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CPM/LOB : new methodology to integrate CPM and line of balance

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CPM/LOB: New Methodology to Integrate CPM and Line of Balance

by

Saad A. Suhail, BSc, MSc, PE, PMP

A Doctoral Thesis Submitted in Partial Fulfillment of the Requirements for the Award of Doctor of Philosophy of the Loughborough University, Loughborough, United Kingdom.

November, 1995

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ABSTRACT

In 1963 the United States Federal Government established a Line of Balance Coordinating Committee to study LOB's applicability and its ties with network scheduling. Ever since many researchers and practitioners attempted to integrate the merits of CPM and LOB in graphical, operational research, and activity-dominated network scheduling. Nevertheless, the obstacles were not truly eliminated in a simple and practical way that was good enough to be accepted and adopted by the construction industry. This work presents CPM/LOB, a new methodology integrating both methods in a network context. It is simple to comprehend and apply using available commercial CPM computer programs, and does not require elaborate training.

The method overcomes the vulnerability of CPM to changes in the sequence of work and inability to maintain work continuity for the working squads of the repetitive activities. It introduces float into LOB and revives LOB by creating access to it by commercially available and popular CPM packages.

Several additional features are introduced to facilitate the management of planning and control of repetitive projects, such as identifying and quantifying progress that contradicts network logic, evaluating the effect of discrete activities, and measuring the progress regularity on multiple large housing contracts as well as single and small repetitive projects.

The principles of the method have been published in *Journal of Constructing Engineering and Management* of the American Society of Civil Engineers in September 1994. Its practical application on projects in Kuwait and the United States is demonstrated by three case studies.

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Deep appreciation and love embraces all my family members for their infinite help and support despite the crucial time they are undergoing.

I sincerely thank those who indirectly strengthened my perseverance.

NOTE

This work, being written in the United States of America and submitted in the United Kingdom, had to confront the issue of using British versus American English. The initial intention was to write the thesis in British English, but due to logistical obstacles emanating partly from software availabilities, it was agreed to write it in American English.

This thesis was solely written by the author and reviewed by the supervisor of research. No other party was involved in editing or correcting it.

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CHAPTER 1

INTRODUCTION

1.1 General Description of the Subject

The line of balance technique (LOB) for planning and scheduling repetitive projects such as houses, jetty work, high-rise buildings, precast concrete production, etc., was devised in 1941. It had provided unique and useful applications in capitalising on the economy of balancing repetitive tasks and identifying negative deviations thereof. However, it is still not suitable enough for repetitive projects where the Critical Path Method (CPM) network of the typical unit is complex and has many branching paths. It is unwieldy in large projects, difficult to update or accelerate, and does not immediately give an accurate measure of the time progress of a project. On the other hand, CPM is developed to an extent that it predominates in the industry, but its use on repetitive projects is challenged by its inability to react promptly to the incident problem of changing the sequence of work on the typical units and to maintain work continuity for the working squads. This work presents a new methodology that adequately integrates the merits of CPM and LOB by a novel introduction of float in the LOB and using resource leveling in CPM. The integrated methodology gives a prompt and accurate indication of the time progress of a repetitive project. Its virtue lies in its invulnerability to changes in the sequence of work and ability to maintain work continuity for the working squads on the repetitive activities.

1.2 Significance of the Problem

By definition, most repetitive projects in construction are large projects. Housing projects are repetitive projects that have indisputable importance because of their impact on people. Consequently, these projects become high-profile and draw considerable public and political attention especially on housing programs subsidized by governments after disasters. Owners as well as contractors face pressures to generate information for the effective management of these projects and for the public about the progress of these projects. While CPM has gained the acceptance and trust of the legal and the construction professions on non-repetitive construction projects, to date CPM and LOB have failed to schedule these projects to provide reasonably quick and accurate measures of the time progress of these projects and their projected completion dates. The abundance of research and the persistent attempts are genuine proofs on the existence of a

dire need to solve the problem because of its impact. Those involved in the details and day-to-day planning and scheduling of repetitive construction projects know the challenge.

1.3 Objectives of the Research

1. Identify and evaluate past and current attempts of integrating CPM and LOB.
2. Investigate practical methods and techniques used to overcome the problems identified.
3. Develop a practical method for the integration of CPM and LOB.
4. Evaluate the effectiveness of the combined CPM and LOB in planning and scheduling repetitive projects by testing it on real life projects.

1.4 The Principal Hypothesis

The independent application of LOB and CPM on repetitive type projects has serious problems, in the LOB, complicated unit networks can not be handled and have to be reduced to grouped activities and control points to schedule the project. The technique does not show readily the impact of delays or changes on the project completion date. Effects of common activities are not known. The inevitable existence of float times is neglected.

The past and current use of CPM on repetitive projects confront major challenges due to the inability of CPM to react promptly to the frequent problem of changing the sequence of work on the repetitive units. This is because even relatively simple CPM networks have to contain many interfaces between the subnetworks of the repetitive units that complicate its utilization. Also, the application of CPM does not consider the work continuity of the working squads as an issue of central importance.

The major argument of this research is that if the two techniques can be adequately integrated to counteract each others weaknesses, the combination will be a more efficient planning, scheduling and monitoring technique for a wide range of projects with repetitive and non-repetitive activities.

The principal hypothesis is:

CPM and LOB can be integrated to combine the powerful features of LOB in repetitive project controls and the popular and well known characteristics of CPM in planning, scheduling and impact analysis, creating a more effective scheduling tool. The combined technique could overcome the confusion usually associated with a large number of CPM activities required to represent repetitive type projects in an adequate and meaningful detail.

1.5 The Secondary Hypotheses

The integrated CPM and LOB would complement each other to be able to identify, quantify and overcome the following effects incident to repetitive type projects:

1. Common activities between some repetitive units.
2. The realities of out-of-logic progress: progress contradicting the logical relationships between the CPM activities.
3. Excessive quantities of partly completed typical activities.

1.6 The Research Methodology

1. Identification of past and current theories through literature review.
2. Investigation of the methods and techniques in use through site visits to selected construction projects to review project documents and conduct interviews.
3. Development of the algorithm by utilizing a popular project planning and scheduling software called Primavera Project Planner® (P3) with a general purpose spreadsheet software.
4. Objective evaluation of the combined CPM and LOB through interviews and interactive communications with construction professionals and academics.
5. Testing the integrated CPM and LOB through using real and assumed progress data to schedule selected representative projects and compare the results with those from alternate methods used by the project team.

1.7 Originality and Contributions to Knowledge

1. Achieving the integration of the LOB and CPM techniques by introducing float into LOB and utilizing resource leveling in CPM.
2. The new methodology does not need sophisticated knowledge and training for the current average personnel usually involved in the planning and scheduling process, hence it is immediately applicable and expected to be widely accepted.
3. The new CPM/LOB methodology enables scheduling resources more efficiently than existing techniques. Repetitive activities with float in the unit network need less resources to achieve the same project completion date.
4. The integration of CPM and LOB eliminates the problems associated with the changes in sequence of work in CPM scheduling and puts the scheduler, as well as the management at a great advantage and flexibility. There is no need to revise interfaces between subnets because they do not exist. Some of the immediate benefits are considerably quicker what-if analysis related to resources management and alternative sequences of operation, and reduced human errors in scheduling.
5. In this technique, repetitive activities maintain their continuity to a practical extent in the context of CPM.
6. Through implementing the LOB control on the balance of the project along with the CPM's explicit logic between the activities, the user acquires a better overview of the project. This helps the user to focus and overcome the overwhelming of the large number of the CPM activities inherent with representing repetitive construction projects.
7. Creating access to LOB through commercially available CPM packages. This permits LOB to routinely benefit from current as well as possible future enhancements of CPM and its commercial packages. The current enhancements include: multiple calendars, advanced resource management, standard as well as customized reports and graphics, activity constraints, summary activities, activity codes, data bases, comparisons with target schedules and interfacing with other computer programs (graphics, spreadsheets, word processors, etc.).
8. Like the typical use of CPM to prove delays through Time Impact Analysis, CPM/LOB is capable of proving delays in repetitive projects in a prompt fashion. Additionally, CPM/LOB can readily assess resource driven delays that are

inconspicuous though potentially big. Delays stemming from out-of-Sequence progress can also be measured easily.

9. Defining the effect of common activities (discrete and less repetitive activities) between repetitive typical activities and measuring their impact on the schedule.
10. The differentiation, identification and quantification of out-of-logic progress.
11. The development of a solution to deal with the situation of excessive quantities of uncompleted typical activities during the progress of a project.
12. Enhancing the LOB chart with a representation of float and introducing the regularity chart which is rate-sensitive and indicative of the time progress of a project.
13. Introducing a new statistical measure in LOB for comparing the degree of regularity of actual progress of multiple contractors relative to their respective baseline schedules. The same measure can be used to monitor the regularity of the actual progress of a single contractor.

1.8 Organization of the Thesis

This thesis is organized in ten chapters. The contents of each chapter is as follows:

Chapter 1 has explained the problems associated with using CPM and LOB on repetitive projects. The research objectives, hypotheses and methodology has been stated. The chapter has concluded with a list of the original contributions to knowledge made by this research.

Chapters 2 and 3 provide a general review of CPM and LOB and emphasize those features used later to develop the new methodology. Limitations and challenges of each method's application in repetitive work are analyzed.

Chapter 4 reviews the literature concerning previous attempts and recommendations to combine CPM and LOB. A summary of several related theories is provided under separate subheadings.

Chapter 5 reviews real life applications of CPM and LOB on projects with significant repetition. It is based on the author's personal observations on projects in Kuwait and the United States of America.

Chapter 6 introduces CPM/LOB and demonstrates how it revives the LOB by introducing float and integrating it with CPM. Several diverse examples were given with comments on practical implications.

Chapters 7 and 8 expand on the application of CPM/LOB. They deal with the identification and solution of some essential issues to the management of repetitive projects, including: the effect of common activities, out-of-logic progress, progress regularity, geographical allocations and stage handovers and the benefits of merger.

Chapter 9 shows the application of CPM/LOB on three real life construction projects: The first two are on a housing construction project in Kuwait, and the third is on part of a prison project in California, USA.

Chapter 10 presents a review of the achieved objectives and proven hypotheses along with suggestions for future research.

CHAPTER 2

THE CRITICAL PATH METHOD

2.1 Introduction

This chapter describes the principles of the critical path method (CPM), and highlights the features that will be utilized later in the research. It defines new terminology necessary for identifying application problems, and reveals relevant capabilities and limitations of commercial CPM packages. Finally it demonstrates why CPM has failed in scheduling repetitive projects.

2.2 CPM, Definition and Origin

In the late 1950s the Dupont Company and Remington Rand (USA) developed the critical path method (Wickwire, Driscoll and Hurlbut 1991; Teplitz and Amor 1993), which is a detailed planning and scheduling technique that represents the tasks of a process or a project by distinct activities of definite durations and links them to each other by relationships thereby forming a network. The longest chain (or chains) of activities through any CPM network is the critical path (or paths). Consequently the other chains have varying slack durations or floats and are less critical for the timely completion of the project than those on the longest chain or path. Resources can be allocated to the activities towards producing many kinds of reports to help manage the project.

2.3 Arrow and Precedence Diagrams

The CPM network is often called the logic diagram because it shows the interdependencies between the activities hence one logical sequence of their execution. There are two ways of showing the logic diagram network, arrow diagrams and precedence diagrams. In the arrow diagram each activity is represented by an arrow whereas in the precedence diagram, each activity is represented by a node. Arrow diagrams are the traditional way of showing a logic diagram network but recently, precedence diagrams have grown more popular for many reasons. A precedence diagram is less vulnerable to human error therefore easier to develop. It also offers more types of logical relationships between the activities. Precedence diagrams use discrete activity numbers, whereas arrow diagrams refer to start and finish events that could be shared by

other activities hence precedence diagrams offer considerable advantage in resource leveling and developing cost models (Thompson 1981). However, for presentation purposes the arrow diagram has an advantage since the arrows of the activities can be drawn to a time scale and offer an excellent depiction of logic associated with a duration sense that graphically highlights the existence of float.

2.4 Time Analysis in CPM

Time analysis in CPM is the mathematical calculation of the earliest and latest start and finish times of each activity in the network based on its individual duration and interdependencies along with the applicable work calendar. It comprises two passes: the forward pass where the earliest times are calculated; and the backward pass where the latest times are calculated. The difference between the early and the late times of an activity is its float.

2.5 Out-of-Logic Progress

At the initial stages of a construction project, planners translate the project goals into a set of milestones and completion dates. Following this they break down the work into a number of defined activities and link them logically according to many considerations that include the following:

1. The method of construction to be followed.
2. The intended timing of giving access to certain subcontractors, suppliers, etc.
3. Safety and weather considerations.
4. Protection and neatness of the works.
5. Contractual stipulations.
6. Imposing the progress of activities in a particular way to satisfy certain requirements such as, float management, resources distribution, financial considerations, etc.

The planners thus create the baseline or the initial schedule. When all the parties agree upon the details of the initial schedule, they in fact become bound to perform their contractual responsibilities represented by the CPM activities in the same logical sequence as that of the initial

schedule. This logic in the CPM clearly defines who gains access first and which activities follow or precede other activities to organize the relations between the parties and between their activities. Of course in many cases there would be more than one alternative to the logic of the initial schedule, some alternatives known but not chosen in preference of others and some never thought of initially.

When the progress on the activities begins, it frequently does not coincide with the initial schedule, at least for its logic. A classical situation of violating the CPM logic exists when one of the parties, e.g. a subcontractor, chooses to start earlier than scheduled on one of his activities to utilize an unexpected early release of some of his expensive and unstorable resources, and by doing so he eventually blocks or impedes the works of another subcontractor. An equally frequent case is on a delayed project where a frustrated owner decides not to wait for the contractor to complete some slowly progressing activities that precede the owner's activities. The owner starts trying to save time and "slides in the activities" and the contractor claims disruption because of this.

Activities sometimes start before the end of their predecessors and, in some cases, even before the start of their predecessors (Fig. 2.1). These violations of logic may sometimes occur without negative impacts on the project, particularly when the logic between the activities is discretionary and preferential (sometimes called soft logic), not obligatory. However, in cases

Figure 2.1 - Out-of-Logic Progress on Activities C and F.

where the logic of the initial schedule was absolute (sometimes called hard logic) and rigorously

built based on wise reasons, complications and disputes are the expected results. Favorably, some violations happen because they represent the workable logic at the time of execution, in contrary to the initial logic which subsequently proved to be unworkable or merely inferior.

The process of identifying out-of-logic progress towards correcting it and having a workable schedule can be done by visual comparison between the logic diagram and the actual start and finish dates or the as-built bar chart, but it becomes tedious, vulnerable to human error and extremely lengthy for large and troubled projects.

2.6 Resource Scheduling

Resource scheduling is a methodology that takes into consideration the demand and availability of resources into time analysis. It usually has five steps:

1. Determining the limits of availability of each resource.
2. Allocating or loading individual activities with adequate resources for their completion.
3. Developing the strategy of the prioritization of activities for execution.
4. Resource leveling, which is the mathematical process that starts with the times resulting from the time analysis and delays them in line with the demand and constraints on the resources being leveled.
5. Resource smoothing, which is an extension of resource leveling aimed at reducing the fluctuation in the utilization of a particular resource between two levels of its availability, the maximum level and the normal level.

A resource, whether leveled or not, its utilization or consumption can be known through adding its quantities for each planning unit in a process called resource aggregation.

2.7 Resource Leveling and Smoothing

There are many algorithms for general resource leveling within network analysis, they can be grouped in two categories: optimization-based leveling, which try to maximize or minimize specific schedule variables (e.g. shortest project duration), and require excessive computational efforts; and heuristic-based leveling, which produces practically satisfying solutions (e.g. assign resources by the minimum float rule), (Lorterapong 1994). In this work, only heuristic-based leveling was used and the issue of resource leveling techniques was considered too broad to fall within the scope of this research. Nevertheless it is necessary at this point to state what is to be expected from resource leveling and smoothing from a commercial CPM package which uses heuristic-based resource leveling.

Throughout this research and previously on the projects presented as case studies thereof, this author has utilized a CPM package called Primavera Project Planner® (P3), by Primavera Systems, Inc., Pennsylvania, USA. The reference manual of P3 has these important paragraphs about resource leveling that are self explanatory:

"...computerized resource-leveling techniques [heuristic-based] do not produce an optimal schedule. Developing an optimal application of resources for a complex network with multiple resources requires computing power far in excess of that normally available on a microcomputer. Optimization techniques using dynamic integer programming are possible but are generally too expensive for large networks.

The customary resource-leveling procedure uses [the skill and judgment of the] project planner, and supplements these with a set of decision rules carried out and reported by the computer system."

and about resource smoothing:

"The purpose of smoothing is to obtain a more uniform profile of resource usage. While it is not possible to obtain an optimum solution to resource problems (without extensive and expensive dynamic programming algorithms), it is possible to iron out some of the fluctuations in resource assignments that tend to raise staffing costs on projects." (Primavera 1990).

2.8 Prioritizing in Resource Leveling

It is essential to focus on how P3 handles an important feature of resource scheduling: prioritizing the activities for leveling.

"Before leveling begins, P3 arranges all project activities in a topological sequence—the order in which they must take place based on predecessor and successor relationships. In some networks, two or more activities are adjacent in the topological order and can be resequenced without affecting the network's integrity. This condition allows [the user] to assign priority codes to activities to determine the order in which they are leveled.

During resource leveling P3 establishes a list of activities in topological sequence. Then, as resources are leveled, if more than one activity [have the same topological order and] can be leveled at the same time, the priority codes are used as a tie-breaker. P3 levels the activity having the highest priority code before the ones with lower priority codes.

Priority codes are schedule parameter codes or activity codes specified on the Level Window [by the user]. The sort order can be based on any combination of priority codes: activity codes, activity ID codes, or schedule parameter codes such as late finish dates and total float. . . . for any sequential chain of activity relationships, the first activity in the chain is always leveled first regardless of the priority codes assigned.

If a project contains no relationships between activities, the priority codes determine the leveled dates of the activities (as long as enough resources are available). In the opposite case where only one chain of activities exists in the project, priorities have no effect on leveled dates because the topological sequence provides a unique order of eligible activities.

and,

"The order in which activities are leveled can result in different schedules." (*Primavera* 1991)

There may be a situation where a lower priority activity gets leveled before a higher priority activity for the simple reason that the higher priority activity is not ready to start per the time analysis calculation whereas the low priority activity is ready.

2.9 The Utilization of Resource Scheduling in Practice

Based on this author's observations of the construction industries in both Kuwait and the United States, resource scheduling is rarely used as set out in section 2.6 above.

Due to the lack of in-depth planning and scheduling education, and relatively poor CPM programs, very few managers are using these techniques in making daily management decisions (Popescu 1991).

The frequent utilization emerges when the owner imposes the link between progress payments and the schedule. In this case contractors have their activities loaded with cost to generate and prepare payment requests. The utilization of resource leveling on materials, equipment and workers has not matured yet. And as one executive of a prominent CPM package described it:

"People ask for resource leveling when buying a CPM software, but they do not use it."
(Faris, 1994)

There have been some outstanding improvements during the last ten years on the general capabilities of commercial CPM packages that are available to the general user, but the advancement in the resource scheduling capacity has been comparatively marginal. This could be a reason for the limited utilization of resource leveling: the user sets out expecting that the package will simulate for him the way he wants to manage his resources then faces some unrealistic limitations and backs off completely.

These limitations, that exist not necessarily in one package, include the inability to:

1. Prioritize the allocation of resources to the activities based on user-defined codes.
2. Make a resource follow a calendar different to the activity it is assigned to.

3. Use a fixed resource budget quantity for one resource, hence a variable rate of utilization while using the opposite of that on another resource within the same activity: a mixed mode.
4. Show cumulative resource curves in a realistic step line format.
5. Use parallel resource scheduling where more than one activity can share a single resource and progress concurrently though alternately.
6. Associate the learning curve phenomena with the resource rather than the activity duration if at all. Also recognizing low productivity on days when the weather is harsh but work can still be progressing.

2.10 Out-of-Sequence Progress

Although this term has been widely used on out-of-logic progress situations as defined above, the author has alternatively chosen the expression "out-of-logic" to describe the progress of an activity that starts or finishes contrary to the pre-defined relationship with its predecessor. This is so because the term "logic diagram" has been widely used for naming CPM networks. The author is of the opinion that it is more appropriate to apply the term "out-of-sequence" to progress that does not breach the logic of the network but breaches the sequence of the priority order for resource leveling.

At the time of preparing this work, Primavera Project Planner® (P3) calls the progress of an activity that violates a relationship with one of its predecessors "out-of-sequence progress" and it can produce a report about these activities if their predecessors are not completed. If the predecessors have already been completed the violation would not be reported. In other words P3 can report only current out-of-logic progress.

From this point onward in this writing, the term out-of-logic progress shall be used as described above on logic violations, and the term out-of-sequence progress shall be applied to breaches of the priority order in resource leveling.

2.11 Float Ownership

Many construction contracts do not address the issue of float ownership explicitly (Trauner 1990). It is best that this issue be addressed expressly in the contract documents and that the contractor be advised up front (de Leon 1986).

Trauner (1990), stated:

"In reality, the contract owns the float and either party may use it as long as it does not financially affect the other party. Some owners claim they own the float and, if they use it, the contractor will receive no additional compensation. This is a form of no damage for delay clause."

When the contractor sees the owner demanding sole ownership of float it is likely to present a schedule that does not reflect its true intentions and that has little float (Householder 1989). Float can be artificially dissipated by abusing preferential logic, imposing unnecessary constraints, overestimating activity durations and using resource leveling unrealistically.

Zack (1991), stated:

"In most States [USA], "float" within the project schedule is the property of the contractor unless otherwise specified in the contract documents."

Person (1991), mentioned:

"ambiguities in a float-sharing clause usually are construed against the drafter, which is normally the owner."

Zack (1993), confirmed:

"The legal precedent that, absent a contract clause to the contrary, float belongs to the contractor as one of his resources was established more than 20 years ago (Wickwire and Smith 1974). Despite current thinking that float ought to be a shared project resource, all too many public project owners [USA] continue to let contract documents that do not clarify this critical issue (Wickwire and Driscoll 1990; Wickwire et al. 1991). Thus they strengthen the argument that float belongs solely to the contractor."

Zack (1993) observed that some take advantage of this legal rule and assert that under the equitable-adjustment language of the contract provisions they deserve time extension even though the completion date of the project is not affected. Their assertion is that, to maintain the same relative time position after issuance of the change as before (which is the equitable-adjustment "formula"), they are entitled to time extension to restore their float consumed by the change. To block this, he recommended that float was not for the exclusive use or benefit of the owner or the contractor but an expiring resource available to whoever uses it first. This may sound unfair to the party who does not have float towards the end of a contract duration after the other party has used it up earlier. Consequently, in contracts of joint-ownership of float, some owners drafted specifications that allow tracking, accounting for and banking the float generated by critical activities of one of the parties then use it to offset its delays (Zack 1993). Arditi and Patel (1989) presented a method to apportion costs between the owner and the contractor when accelerating to gain the time lost due to their delays.

In construction claims considerable attention is given to float ownership and the courts recognize the link between float and resource management:

"In *Utley-James Inc.*, No. 5370 (1984), the General Service Board of Contract Appeals [USA] describes fundamental network analysis concepts, recognizing sophisticated CPM techniques such as resource leveling, sequence restraints, use of float and negative float, and buy-back time through acceleration".

and in

"*Weaver-Bailey Constructors, Inc. v. United States*, 19 Cl. Ct. 474 (1990), the landmark claims court decision on float in which the court found that the contractor had the right to plan its work in accordance with its own plans or reasonable resource usage (regardless of the fact that this utilized float)". (Wickwire, Driscoll and Hurlbut 1991)

As stated earlier in resource scheduling, leveling staggers activities to allow for more efficient use of resources, consequently it consumes float. Therefore, if a contractor wants to keep resource quantities relatively constant it should utilize resource leveling. Overtime and

productivity losses can be reduced and sometimes avoided with a sensible utilization of float in resource leveling.

The view of Neale and Neale (1989) is that the contractor owns the float because he needs it to make the best use of resources through systematic scheduling. They stated:

"the principle that the contractor owns the float must be respected, and clients should not rob him of this important managerial asset."

Person (1991) however, was of the opinion that the courts failed to take into account whether the consumption of float has disturbed the contractor's leveling scheme or caused a delay to project completion because of limited resources. He therefore recommended including resource constraints (resource-based relationships, Suh 1993) in the schedule to lock-in the float that might otherwise be used by others. Resource constraints or dependencies are logical relationships simulating the sequence of resource movements on the activities notwithstanding that there is no physical constraint requiring such an order.

This author agrees with Person's opinion about locking-in float but qualifies it with utilizing resource leveling in lieu of resource-based relationships. Resource leveling is dynamic and a true depiction of resource availability and demand throughout the project. It produces more than one logical sequence to execute the work, more credible schedules and can be managed more easily in practice vis a vis sole time scheduling. This is especially true on projects with significant repetition.

2.12 Challenges in Using CPM on Repetitive Projects

Both practitioners and researchers voiced their disappointment with CPM application on repetitive projects. One of the main reasons was CPM's vulnerability to sequence changes of work between the repetitive typical units, which is, on repetitive projects, a matter of choice and strategy and is quite frequent depending on unforeseen circumstances (Rahbar and Rowings 1992). In CPM, repetitive typical activities are linked by pure logic relationships to simulate the sequence of operations (Fig. 2.2). Progressing apart from that sequence produces an error in the CPM package called out-of-sequence progress, but in fact it should be called out-of-logic progress because logic is being violated. Fig. 2.2 shows the application of CPM in repetitive construction

Figure 2.2 - Sequence of Operations Driven by Resource-Based Relationships.

where a subnet is created for each house and linked to other subnets. This assumes that a squad working on a typical activity, for example activity "D", is supposed to move from one house to the other according to the sequence dictated by the management and represented by the dotted relationships. However, the squads will often follow another sequence and the need for revising the dotted relationships would be a must to maintain a meaningful and manageable schedule. The revision of the dotted relationships will be more tedious if the planner realistically deploys more than one squad to work on each typical repetitive activity and when there is more than one trade squad working on a single activity for only part of its duration. Temporary changes of resource availabilities add more complication to these relationships. Scheduling without correcting the error of out-of-logic progress produces unworkable schedules. Therefore each time the sequence is changed, it becomes necessary to expend many workhours to correct the dotted relationships to keep the schedule meaningful and workable (Rahbar and Rowings 1992).

Carr and Meyer (1974) in criticizing CPM on this point stated that:

"The order of progress through such a project is usually chosen by management rather than required by the dependencies of the activities."

Peer (1974) stated that the requirement by many governments and private clients to use CPM has been a main reason for its wide spread. However, CPM failed to solve practical problems of production processes on site (repetition). He argued that the gap between a CPM schedule and reality cannot be eliminated by utilizing the resource leveling techniques and that the input of the required number of resources would only be by accidental guessing.

Pilcher (1976) stated:

"For such works [repetitive projects] it is extravagant, as well as difficult, to draw and maintain critical path networks illustrating the detail of construction process for each of the units involved. The updating of such a network and its use as an instrument of control for the delivery of materials and each individual construction operation presents many problems of organization. The discipline and logic of networking can, however, be employed in a more rational way for such projects by using the line-of-balance method."

Heyel (1979) asserted that organizations using PERT or CPM for research and development activities often switched to LOB for control of the related manufacturing processes and that, in general, the reverse was not true.

Arditi and Albulak (1979) mentioned that high repetition reduces the chances of successful planning and control by network analysis. They also stated that linking the repetitive subnetworks with relationships was an extremely tedious process.

Clough and Sears (1991) indicated that the practical application of CPM in repetitive operations was complicated, nevertheless CPM was occasionally used.

Russell and Wong (1993) stated that a significant barrier to the use of a computerized system in the planning and control of repetitive projects is posed by the tedium of describing such projects in the face of logic and work location changes. They noted that location sequences are often arbitrary and construction strategies are opportunistic. Also, updating algorithms should allow for changes to work location orderings and crewing.

The other main disappointment with the use of CPM is that it is not oriented towards providing work continuity for the squads of the repetitive activities which is fundamental in repetitive construction.

Peer (1974) said that limitations were imposed on the use of network analysis. The need for creating working continuity and balancing the whole process is completely neglected.

Selinger (1980) indicated that CPM, when used as a model of repetitive construction, had ruled out the requirement of creating work continuity to obtain maximum resource utilization.

Reda (1990) in trying to shorten the project duration and reduce the direct costs, indicated that in repetitive projects planned by CPM, this shortening would sometimes, and depending where the flow of the critical path is, cause a squad to work with a higher production rate at a particular stage or unit and then work at a normal production rate at the rest of the units. Thus the production rate for the squad, and consequently the repetitive activity duration would not be maintained throughout the project. Furthermore, by using CPM calculations the continuity of work for the squads is not maintained.

Rahbar and Rowings (1992) exposed some disadvantages of CPM, they mentioned that CPM is unable to distinguish rates of progress of activities and that the number of units that can be completed within any period of duration is not clearly visible. They also stated:

"conventional resource allocation, smoothing, or leveling procedures are incapable of ensuring full continuity for a production crew or process which is the backbone of planning repetitive cases."

Russell and Wong (1993) stated:

"issues such as work continuity, learning effects and multiple crewing strategies make the use of traditional network approaches difficult."

Russell and McGowan (1993) stated:

"The usefulness of traditional network approaches for [repetitive] projects is limited by their inability to treat issues such as work continuity, multiple crewing strategies, and changing work location sequences."

Humphries (1993) mentioned that the typical CPM schedule provides no indication of the rate at which the work is being accomplished.

Resolving the problem of out-of-logic progress that results from inevitable changes of operations sequence on the typical repetitive units is one of the prime objectives of this research. The other prime objective is maintaining work continuity for the working squads in the CPM context.

CHAPTER 3

THE LINE OF BALANCE METHOD

3.1 Background and Development

The line of balance (LOB) technique for the planning and control of repetitive operations originated from the manufacturing industry during World War II as a tool for monitoring and controlling the war production plant of the Goodyear Tire and Rubber Company (USA) in 1941. It was further developed by the US Navy during the same war and the Korean War (Turban 1968; Heyel 1979; Goodman and Love 1980). In the mid 1960s with the growth of industrialized housing development, LOB attracted the interest of the UK construction industry (Harper 1983). Professor E. G. Trimble of Loughborough University, UK introduced P. Lumsden to LOB and developed the technique for application to building construction while at the (British) National Building Agency, the Newcastle office (Lumsden 1968; National Building Agency 1962). The technique is not well known among young practitioners in the USA (Sobhy 1995). This is probably attributed to a disenchantment among prominent US educators with it (Enrico 1995). LOB is well known in the UK and in countries educationally influenced by Britain including India, Sudan (Neale and Raju 1988) and Australia (Hinkley 1989).

3.2 The Essence of the LOB Technique

The LOB is a graphically represented method for scheduling repetitive work. It is concerned with the components which make up the flow of finished products (O'Brien 1969). It shows the required and actual progressive completions for each activity in equivalent end-product units. The LOB is oriented towards the required delivery of completed units, and is based on a knowledge of how many activities of any type are required to have been completed by any given day, in order that the programmed delivery of units can be met (Lumsden 1968).

3.3 The Natural Rhythm in Construction

In construction, tradesmen rarely work individually or in large groups. Experience and practice have established an effective size for particular squads of tradesmen. For example, to obtain the most efficient productivity, bricklayers usually work in a squad of two bricklayers

serviced by one laborer, similarly, plumbers work in pairs. Therefore balancing calculations have to be done on the basis of output of squads rather than individuals to avoid interference. This restriction makes it difficult to achieve a common rate of work for all trades or activities in construction (Neale and Neale 1989). The normal rate of production of a squad of optimum size, as described above, or multiples thereof is the natural rhythm of that trade or squad. Consequently planning resources hence rates of production closest to the natural rhythm is nearest to optimum productivity.

To the contrary, this is rarely the case in a manufacturing environment. The rate of progress of each activity may be adjusted quite finely; consequently, activities may be put to progress at almost the same rate (Neale and Neale 1989).

Consideration of the natural rhythm notion gave rise to two approaches in formulating the LOB schedules. These two approaches can best be distinguished as British and American (US). Both approaches start the calculation from a handover or a delivery rate, but the American approach de-emphasizes or disregards the natural rhythm notion. This was probably because the LOB technique was born in the manufacturing industry of the United States.

3.4 The British Approach to Formulating the LOB

The definition of a typical British application of the LOB is given by the National Building Agency in 1968: A series of inclined bar-lines at different slopes, one for each trade. The bar-lines vividly display the speed of one trade against another, highlighting the risk of collision courses (interference) and unbalanced manning. The implementation has been more of a mathematical calculation of trade manhours prior to plotting it on a time scale. This was referred to by Darlow (1968) and later by Pilcher (1992) as resource scheduling, where the calculations is dominated by the natural rhythm of each activity leading to a rate of progress that is nearest to the desired handover rate. The balancing calculations of LOB can be tedious unless a spreadsheet is used (Neale and Neale 1989). This approach is followed by all British text books if not all papers by British authors or co-authors reviewed in this research. Fig. 3.1 is copied from Neale and Neale (1989) and represents the form of a typical British LOB schedule that was not used by any American text book covered in this research. However, Suh (1993) adopted this approach in his PhD work that was supervised by David Arditi, a former student of E. G. Trimble.

Figure 3.1 - British Line-of-Balance Schedule: Plan and Actual Progress (Neale and Neale 1989).

3.5 The US Approach to Formulating the LOB

LOB is frequently referred to as a graphical technique in the US. A common handover rate is imposed upon all activities in what is called parallel scheduling (Darlow 1968; Harris and McCaffer 1977; Trimble 1984; Pilcher 1992). Balancing of all activities to eliminate interference thus squad waiting time is only possible if their durations are divisible by a common factor. Parallel scheduling leads to a shorter overall duration hence savings in overheads.

The approach analyzes the activities of a typical unit network with relation to their completions rather than commencements. Lead times are established representing the duration by which particular events must precede the end event. Then completions are represented versus time in a line graph (Fig. 3.2). The number which should be completed for each activity or event, can be read off against the line of completions by going forward the lead time of that event or activity (Pilcher 1976).

Figure 3.2 - Handover Diagram.

A LOB Chart (Fig. 3.3) is then drawn by quantitatively representing the cumulative completions of activities associated with a level of planned number (line of balance) at a given point in time. It provides a vivid overview of the project overall status and reveals graphically any out of balance that suggests a deviation from the plan due to the actual uneven progress of activities. Management is promptly enabled to focus on assessing the deviation quantitatively (Khisty 1970). On the other hand, while this chart shows a delay in one or more activities it does not show the impact of this delay on the completion date of the project. Also, what the LOB Chart does not show is that not only must there be enough activity completions to the level of the line of balance at a given point in time, but an additional number of activities must be underway to meet the following interim planning goal. According to the references reviewed for this work, no British author used the LOB Chart except Pilcher (1976; 1992).

This approach eased the use of LOB on complex unit networks, however left room for the occurrence of the interference problem. Birrell (1980) cited another author called Saul Horowitz, Jr. who emphasized the practical benefit of management psychology and speed competition on the construction of New York skyscrapers where faster squads were put to work behind slower squads to pressure the earlier to work faster. However, Neale and Neale (1989) mentioned that if tradesmen cannot see work available for them for some reasonable period ahead, they may simply slow down.

Figure 3.3 - American LOB Chart: Plan and Actual Progress.

3.6 Irrelevance of Out-of-Sequence Progress in LOB

The construction site environment differs substantially from the manufacturing environment in this issue of sequence. In chapter two the problems of out-of-sequence progress were addressed in the context of construction network scheduling, and concluded that many relationships between the subnetworks need to be revised each time progress sequence changes. To the contrary, in the manufacturing industry, where the LOB technique originated, change of progress sequence between the repetitive units can not exist. The manufactured repetitive components are not associated with any particular individual commodity. A component may be assembled on any individual commodity or end-product. Components and commodities do not have a unique identity or a serial number before they are completed. In construction however; a house has its identity, an address number established since the preparation of the drawings and any "component" or activity of it can not be completed and used on another house like the case

of manufacturing a particular component of a car. The issue became a visible concern when LOB was applied in the construction industry.

3.7 LOB Drawbacks and Limitations

Lumsden (1968) gave a very good example on a commonly encountered situation on housing projects; unbalanced progress (Fig. 3.4, reproduced from Lumsden, 1968). In this example the work on stages or activities 1 and 2 progressed ahead of schedule (past the vertical dashed line of time now) while subsequent work on activities 3 was not started, thus behind schedule. In this case if activities 1 and 2 were intensive value activities and the progress was related entirely to income, the impression might be gained that the progress of the whole project was ahead. However, reference to the LOB diagram (Fig. 3.4) indicates that the progress is

Figure 3.4 - Unbalanced Progress (Lumsden 1968).

unbalanced and the completion line of activity 4 will be shifted to the dashed line if no adjustment to resources is possible. The analysis of the LOB diagram on complex and branching networks of typical units would not be indicative of the delay and the time progress of the project. LOB can forecast the delay in the delivery of a unit but not any accompanying delay in total project completion. This output is typically produced by CPM (Carr and Meyer 1974).

Heyel (1979) said that on projects where surplus time existed within activities, LOB did not deal directly with the reallocation of spare time as did CPM and PERT.

Artiti and Albulak (1979) mentioned that LOB was not able to generate corrective measures in cases of delay, as the degree of detail was too low. However, when LOB used more detail, hence many activities the diagram became a jungle of oblique lines with no sense even to the planner who prepared it.

Kavanagh (1985) indicated that the LOB techniques were designed to model simple repetitive production processes and, therefore, they do not transplant readily into a complex and capricious construction environment.

Arditi and Albulak (1986) commented about the readability and the visual problems with the presentation of the LOB diagram, they stated:

"there are major problems in the presentation of the LOB information: unless colored graphics are used, it is difficult to differentiate between overlapping activities that have equal rates of production."

Neale and Neale (1989) mentioned that LOB can show clearly only a limited amount of information and a limited degree of complexity, especially when using the technique to monitor the progress.

Al Sarraj (1991) indicated that a review of literature revealed that the LOB method was not formalized in acceptable form to make it suitable for general implementation in construction and as a result of that, its use in the construction project management had been limited.

Hegazy et al. (1993) drew attention to two limitations in the LOB: inability to allow for the presence of non-repetitive activities and to reveal enough about the relationships among activities of a particular unit.

Despite all of the above, LOB remains a powerful technique for control that provides concise reporting in establishing the project status. Unlike CPM, LOB can clearly show management the priorities for reallocating resources at a glance. Balancing crews with each other is a fundamental principle that is well considered in LOB.

CHAPTER 4

LITERATURE REVIEW

4.1 Introduction

The task of combining the two techniques of CPM and LOB or sometimes combining their merits under different names has been a heavily researched theme for three decades. It has been a subject of interest to several researchers (Hegazy et al. 1993). This reinforces the notion that they are complementary (Turban 1968; Carr and Meyer 1974). This chapter summarizes what was published in the literature concerning the combination of the two techniques and comments on what is most close to this work.

4.2 Previous Attempts of Combining CPM and LOB

Schoderbek and Digman (1967) presented PERT/LOB. They worked on integrating the planning elements and discipline of PERT with the control elements of LOB; PERT in the development phase and LOB in the production phase. They realized that there was an obvious need for a single management tool to centralize the management of a project from inception to completion. Their method expanded a CPM arrow network of milestones to include one-time regular activities and repetitive activities. However, the algorithm of scheduling repetitive activities was not shown. Also, it could not be inferred that it was resource-driven.

Turban (1968) stated:

"The two techniques are complementary, though each can be used effectively by itself. . . . In 1963, the federal government established a LOB Coordinating Committee, similar to the well-known PERT Coordinating Committee. Major tasks set for the committee were to study LOB's applicability and its tie with PERT."

Lumsden (1968) in his valuable publication stated:

"It has been found that the power of logical networks combined with the principles of the Line-of-Balance method provides a microscopic picture of any repetitive project without

the administrative burden which comparable networks could create. . . . By combining the logical disciplines of networks and the principles of the Line-of-Balance method, where we are concerned with the rate at which events and activities occur, the power of networks has been retained without increasing the administrative work load beyond that produced by adherence to Bar Chart control."

Lumsden kept the combination of CPM and LOB principles in the LOB graphical context.

Howell (1983) in trying to combine resource oriented scheduling (ROS) (LOB is resource oriented) with CPM, described the opinion of some practitioners as:

"believed that was an extremely ambitious concept which is unlikely to work in practice."

Trimble (1984) integrated the comments of Howell and considered the integration of ROS with CPM a daunting task, though a very powerful tool by which to schedule efficiently the complete range of project types from totally repetitive to totally non-repetitive.

Soliman (1987) and Mansur (1990) graphically emphasized the possibility of fluctuating a repetitive activity between two boundaries in the LOB context. Soliman concluded that economical resource allocation required extensive analysis to determine the number of squads for each activity. Mansur encouraged expanding network based computer packages to account for the LOB technique.

Neale and Raju (1988) tried to refine the LOB in a spreadsheet format by introducing activities that run concurrently. They then confronted the complex relationships that their spreadsheet had to express and concluded that it was practically meaningless to draw the output in the form of a diagram of incomprehensible mass of flow lines.

Al Sarraj (1990) developed a mathematical method for the LOB to facilitate finding the project duration, start and finish times for every activity at every repetitive unit, the available buffer and the information about the intersection place. He provided an alternative for drawing a LOB diagram as a means of defining the schedules. The example he presented was for a project of multiple standard units with each standard unit having a series of sequential operations

(activities), therefore the expected effects of using CPM with LOB were aborted. Consequently no float times were generated or investigated.

Rahbar and Rowings (1992) presented a method that was insensitive to out-of-sequence progress yet detailed to be meaningful to the end user. They basically kept the CPM at the summary level of the discrete non-repetitive activities to avoid a complicated network with out-of-sequence progress errors, and then switched to implement the LOB at the further detailed level (the level of repetitive activities). The discrete activities (CPM activities) summarized repetitive "step activities" (subactivities) that were shown sequential in their logical relationships, and no attempt was shown on dealing with complicated non-sequential logic in repetitive "step activities". At the detailed level of repetitive activities the scheduler was to perform resource leveling using his personal judgement while automatic resource leveling was discredited for its pre-existing assumptions which may were in conflict with the user's intent.

Suh (1993) presented a computerized program for repetitive projects using LOB. He argued that the concept of criticality in LOB differs from that in network planning and that none of the existed methods had recognized that concept nor defined float in LOB. He advocated floats calculation in LOB as they would be in network scheduling, however, he was able to calculate free float only. He based his method on a single unit network and the traditional LOB then incrementally increased squads on selected repetitive activities in a specific order to achieve a satisfactory rate. He called this process compression analysis. This seriously underutilized LOB's power to balance the trades as a starting point rather than a finishing point and necessitated multiple iterations. Resource-based logic relationships were used and the effect of sequence changes was not addressed, however, squad work continuity was maintained.

Hegazy et al. (1993) presented a computer program for scheduling and controlling linear projects called BAL. The algorithm was based on the British approach to the LOB technique as described by Harris and McCaffer (1977). It utilized logical relationships between the repetitive activities to calculate start and finish times as well as the quantity of crews to be employed on each activity. It could show crew movements along the repetitive units in a straight flow line format. The authors asserted that alternative bar charts and networks were difficult to comprehend, particularly if large number of repetitions were involved. However, they suggested future enhancements include the development of a general planning and scheduling algorithm integrating LOB and a network technique to enable scheduling complicated logic diagrams and incorporating non-repetitive activities.

Russell and McGowan (1993) had their initial research goal finding a way to marry network analysis and linear scheduling into one mathematical technique.

In June 1993 Russell and Wong, and separately, Russell and McGowan presented REPCON (Representing Construction) which is a project management software marrying CPM with linear scheduling. REPCON models projects with repetitive elements which are linked by logic relationships. Typical activities (repetitive) and discrete activities are called "Planning Structures". Planning Structures can be continuous, interruptible, cyclic or non-repetitive. The logic relationships are of the precedence type and can be start to start (SS), start to finish (SF), finish to finish (FF) and start to finish (SF). The updating process allows for changes of sequence and number of squads. It also handles location offsets and space buffers.

The main important and relevant feature, is that in spite of using logic relationships between repetitive activities to dictate the sequence of operation, REPCON generalizes the concept of precedence so that logic relationships amongst components of planning structures can be specified using a single relationship enabling speedy definition and revision of these relationships. Each time change is necessary there is no tedious revision of each relationship and therefore considerable time is saved on large CPM networks.

According to the authors, REPCON needed considerable training of personnel on the concept. The user defined number of squads and therefore rates of completions are the starting point. Balancing the squads in view of the available project duration was not demonstrated.

Thabet and Beliveau (1994) created a formalized scheduling procedure for multistory buildings. They computerized the logical relationships within each floor (horizontal constraints) and those between the typical networks of the multiple floors (vertical constraints). The procedure considered the continuity of activities but had a limitation in that it did not provide for "varying of the work flow direction of crews", which is the out-of-sequence progress. This is understandable on high-rise buildings since the work flow is almost always upward with the possible exception of some activities such as, final external finishes and cleaning which could go more conveniently downward.

4.3 Relevant Recommendations in Recent Literature

In the summer of 1989, my supervisor Mr. Richard H. Neale, prudently advised to summarize my work and publish the principles of CPM/LOB in a paper to establish its intellectual property. But due to drastic events this was delayed until 1993.

Interestingly thereafter, the manuscript of the CPM/LOB paper, containing the fundamentals of this research, had already been received by ASCE for review and possible publication on June 8, 1993 when Russell and Wong (June 1993) presented "REPCON" and recommended resource leveling as an "interesting challenge" for future investigation. REPCON, is a construction management software that schedules repetitive activities driven by CPM logic relationships.

Humphries (1993) published RPM (Repetitive Production Method Scheduling Technique) in the AACE Transactions on 11 July and stated in his conclusions section:

"Some methods to consider in future papers would be the use of resource leveling in connection with an RPM schedule."

Because CPM/LOB is based on resource leveling, it is therefore clear that the above authors support is implied and that their recommendations could not have possibly been a beacon for this author.

4.4 Pertinent Methods and Theories

4.4.1 Location-Time Diagrams

Location-time diagrams are graphical representations of linear activities on axes of distance (location) and time so that the slopes of the curves represent rates of production (Calvert 1970; Thompson 1981). They can show locations of likely restrictions (Cormican 1985) and discrete activities like culverts thereby provide a good project overview. They are most suitable for roadworks where they depict in a block form the cut and fill quantities. Calvert (1970) had called the method speed diagrams. Roesch (1972) called it velocity diagrams and argued that in

comparison with networks, logical mistakes are more noticeable in velocity diagrams. Stradal and Cacha (1982) presented time-space scheduling method which is basically identical to location-time diagrams by Calvert (1970) and Thompson (1981).

Vertical production method was introduced by O'Brien (1975) and applied to multi-story construction. It was similar to location-time diagrams and little was made to cater for non-repetitive elements.

Johnston (1981) presented Linear Scheduling Method (LSM) and stated that any differentiation between it and the LOB may only be a question of emphasis. He encouraged using CPM to schedule discrete portions of linear projects to determine their durations and transplant them in the output on the LSM presentation. A culvert or a bridge on a highway would be an example of a discrete portion on a linear project.

Arditi and Albulak (1986) mentioned that LOB was a linear scheduling method that makes use of network technology and can adjust activities' rates of production towards smooth and efficient flow of resources. They applied LOB experimentally to a pavement construction project but faced problems in presenting overlapping activities.

Chrzanowski and Johnston (1986) applied CPM and LSM to a real life roadway construction project. They contended that even though an LSM diagram does not delineate series of critical activities it can show field personnel what work has to be done and where with ease. They acknowledged that CPM is capable of readily determining the effect of changes on following activities though can be extremely detailed on complex projects containing repetitive activities.

Mawdesley et al. (1989) developed a link between this method which they alternatively called time chainage, and a CPM package. They integrated chainage charts into a CPM computer package used by Tarmac Construction. They contended that it was a useful addition facility to the standard scheduling technique on linear projects, and that all the standard facilities in the existed package remained available with no increase in complexity. They also mentioned that it was good for projects with less than 100 activities but produced confusing diagrams on large projects with a lot of detail.

4.4.2 Linear Programming

Linear programming is an analytical technique which provides a mathematically representation of a process of the first degree with respect to the variables towards optimization.

Perera (1982) presented a linear programming method with much merit. He used linear programming to analyze networks comprising repetitive activities. His method addressed multiple branching networks within a project, it was resource oriented in computing the duration of the project and accounted for float times. It also integrated cost constraints. It entailed an iterative use of an additional software for linear programming each time with revised coefficients till the optimal solution is determined. The objective was to help planners analyze networks comprising repetitive activities more accurately in a resource sharing environment.

Reda (1990) proposed RPM (Repetitive Production Method) as an alternative approach to the traditional network techniques for planning, scheduling and monitoring repetitive construction activities. RPM, a linear programming model is based on graphical or analytical techniques to model repetitive projects. It uses the activity on the node diagram and gives each activity a time cost curve and assumes a constant duration for the same activity at all stages to maintain a constant production rate. No idle time is allowed for any crew. Each activity has a time buffer with its predecessor. Any two concurrent activities may have a stage buffer of a specific number of stages between them to meet practical and/or technological purposes. The RPM model finds, for each feasible project duration, the start time of each activity at the first and last stage, the duration of each activity (which is to be set equal at all the stages to maintain a constant production rate for the crew working on the activity), and finally the project minimum direct cost that can achieve this project feasible duration. The number of constraints needed to represent the project depends on the number of activities in the typical network and is independent of the number of stages of the project.

A constraint must be written for each activity and for each predecessor it has for that stage or unit of the project. Start and finish dates of activities are given only for the first and last units. It limits the resources to only one squad for each typical activity to ensure continuity and no idle time. Since the method is based on a constant rate of production for each crew, it is expected that accommodating a varying rate of production would necessitate undesirable further complication. It would be inevitable, on complicated and branching unit networks, that the

graphical presentation of this method, just like the traditional flow lines of LOB, will be a mass of incomprehensible lines.

Linear scheduling techniques only focus on production rates and do not provide a practical solution (Rahbar and Rowings 1992). Linear programming is sophisticated and can be too complex especially for site personnel in a real life project application. It still needs a higher level of planners than normally employed nowadays for scheduling construction projects.

One inherent disadvantage is that the effects of changes in a given activity may not be readily determined by tracing the flow of succeeding activities like that on a CPM diagram.

During construction many changes are usually considered, and it is essential that the impact that alternatives have on completion status be quickly assessed (Carr and Meyer 1974). To a large extent, the plan should contain the strength to absorb minor time variations or location variations (Birrell 1980).

4.4.3 Dynamic Programming

Dynamic programming was developed by Richard Bellman and his colleagues at the Rand Corporation, USA (Nemhauser 1966). It is an analytical technique similar to linear programming which improves the computational efficiency by more detail and recursive computations until a specific optimum solution is reached. It is not constrained by linear assumptions (Lutz 1990). Dynamic programming is used to solve complex optimization problems by determining optimal decisions one at a time. The problem has to be represented in a mathematical model. The amount of mental effort and analysis required to construct a mathematical model of real-world phenomena is great (Nemhauser 1966).

Peer (1974) had suggested using dynamic programming as an alternative to CPM to schedule repetitive projects. He discussed its utilizations and compared it with CPM and confirmed that network analysis was incapable of providing a practical construction schedule for site management and that resource allocation techniques were not realistic. He contended that the need dictated a procedure based on a set of algorithms suitably combined for a given project and in accordance with its specific requirements.

CPT, Construction Planning Technique was presented by Peer and Selinger (1976). It was a linear scheduling method for repetitive projects that utilized dynamic programming. It was proposed for repetitive projects as well as projects containing discrete activities.

Selinger (1980) presented a scheduling method for linear construction projects based on dynamic programming developed with a view to satisfy work continuity and minimum project duration. It was based on labor requirement and fixed crews, rather than on predetermined activity durations.

Russell and Caselton (1988) improved on Selinger's work. Their method included precedence relationships and the ability to treat a variety of activity durations and work continuity constraints. In addition, a sensitivity analysis procedure was described to permit the identification of near-optimal alternative solutions when a specific combination of durations and continuity constraints was insisted upon. The authors stated that their contribution was directed towards the goal of having linear scheduling become a practical computer-based tool for repetitive construction projects. They suggested that future research in dynamic programming included non-serial cases (i.e. branching networks).

Moselhi and El-Rayes (1993) extended Selinger's work by incorporating cost as a decision variable in the optimization process. Unlike preceding dynamic programming models which were limited to minimization of project duration, their model could evaluate the impact of different project acceleration strategies on the overall project cost.

The application of dynamic programming on repetitive projects in practice requires a mathematician to work with a sophisticated planner to establish the construction project schedule and to revise and update it thereafter. Dynamic programming is usually not taught in universities at the master degree level in construction, hence the availability of such personnel to the construction industry is nonexistent unless an organization hires the services of a specialized researcher. None of the above paper authors mentioned that their methods were tested in practice. This author has never come across a construction project where dynamic programming was used to schedule construction work. Dynamic programming semantics and mathematical notations are too complex to appeal to the construction industry personnel for utilization in construction scheduling. There is no generic system that is applicable and transferrable from project to project that promises to yield attractive cost savings in practice.

4.4.4 Simulation

Simulation is the process of designing a logical model of a real system then experimenting with it by varying the input conditions to estimate the output towards its improvement. It can illustrate deterministic as well as stochastic models (Lutz 1990). Simulation assists in testing important management decision variables before construction takes place (Birrell 1980).

Ashley (1980) contended that the analogy between assembly line and environmentally exposed operations should not be taken too far since deterministic approaches, CPM and LOB, become quite variable when weather and other factors affect them. He explored computer simulation modeling as a valuable stochastic quantitative technique that could enhance management intuition in repetitive-unit construction planning. He argued that his approach allowed a simple conversion of CPM into simulation.

Kavanagh (1985) presented a repetitive construction simulation model called SIREN which is a computer program retaining the precedence network to show the logical relationships between repetitive and non-repetitive activities. It models work squads queuing to carry out the activities instead of doing a critical path analysis. The logic of the precedence diagram is always followed and then squads queue to carry out the activities that are ready to be started. The program has the ability to incorporate inclement weather days, learning curves, plant utilization and a monte-Carlo simulation. It also can apply the resource to only part of the activity duration.

However, a new program must be written for each new network or new project. Each activity must be executed by only one squad, like a concrete slab must be resource loaded by either a wooden shutter or a squad of craftsmen, not both. It can not change squad sizes (resource availability) during the project. And most importantly, no dependencies between activities in different units is allowed, however, the start of a typical unit may be dependent on one or more activities in the preceding unit by a pure logical relationship. Kavanagh stated that eliminating this restriction would make the model intolerably complicated. Of course this makes the program unsuitable for accommodating frequent changes in the sequence of progress. This disadvantage diminishes in the type of example presented by Kavanagh: a high-rise building where the order of starts of work on the floors has to follow a definite sequence from bottom to top. But in housing projects, frequently the order or sequence of starts of work on the typical units changes and can often be made in a variety of locations.

Chang and Carr (1987) presented RESQUE (Resource Oriented Simulation System for Multiple Resource Constrained Processes). It was somewhat complex and required significant training to achieve the desired results (McCahill and Bernold 1993).

Lutz (1990) and, Lutz and Halpin (1992) presented a methodology called SIMLOB, which involved the application of simulation in a LOB context. Halpin (1976) was echoed in that linear production rates (constant slope) of the LOB might be erroneous due to the stochastic nature of the construction process. A computer program by D. Halpin called MicroCYCLONE was enhanced and applied on several case studies. Individual process production curves were plotted. Field application and validation of the program and enhancement to simulate large project networks were recommended.

McCahill and Bernold (1993) stated that there was a need for a practical simulation model before the methodology can be moved from the realm of research to regular use by practicing construction managers. In their opinion, which they mentioned was shared by recognized leaders in the field, shortcomings were: inability to respond to changing site conditions and to produce understandable results to the field personnel.

4.4.5 Queuing Theory

Queuing theory is an analytical technique that formulate solutions to problems involving waiting and delay in serving people or servicing machines. It has the advantage of addressing stochastic input and providing optimum solutions. Queuing can be coupled with simulation as in the case of subjecting the data to a Monte Carlo computation. The arrival of trucks at a loader to be loaded with dirt is a classical example of a queuing situation in construction.

Birrel (1980) considered CPM a failure and strongly advocated utilizing the queuing theory in repetitive construction. He presented his model in a matrix very similar to Location-time diagrams and containing diagonal paths of work squads. He mentioned that David B. Ashley carried out simulation based on his concepts and the results were positive and realistic.

The analysis of queuing problems with uncertainty in arrival or servicing time or both can become exceedingly complicated (Humphries 1991). Some limitations of queuing include its simplifying assumptions (e.g., homogeneous resources, exponential distributions, etc.) and the difficulty when formulating models for large processes with complex resource flows (Lutz 1990).

4.4.6 Artificial Intelligence

Artificial Intelligence (AI) are computer based systems that attempt to solve problems by trying to imitate the reasoning process of a human brain thereby minimize user's interaction. There are two main AI systems: Knowledge-Based Expert Systems and Neural Networks.

4.4.6.1 Knowledge-Based Expert Systems

Knowledge-Based Expert Systems (ES) are software that solve problems that normally require human expertise. They can assist decision making by asking relevant questions, making suggestions and explaining the reasons for adopting certain action. They utilize pre-elicited information or know-how and preserve it. However, they cannot come up with new and novel solutions to problems because they merely reflect what the programmer has put into them in the form of a rule. Hence if a problem cannot be described it cannot be programmed (Laudon and Laudon 1991).

Artificial Intelligence Planners are Expert Systems able to generate automated project plans and schedules and to reason with, and provide explanations from, stored knowledge. Despite the optimism of some researchers (Levit et al. 1988), they are yet to be challenged and fully applied in practice on non-repetitive projects prior to projects with significant repetition and sequence changes and therefore of more sophisticated resource management requirements. Research has shown that they are by far slower than conventional network solutions (see Kartam and Levitt 1990).

Currently the objective of the construction researchers in the AI field is to make AI work in practice, they do not seem to be very concerned yet with making it more economical than the traditional methods. Their focus has been on building a feasible logic for networks based on several reasonable considerations such as: support and geometry, constructibility, safety and resource limitations. Unfortunately, resource-based relationships, not resource leveling, are used to represent resource limitations in high-rise and low rise repetitive construction (Levit et al. 1988; Kartam and Levitt 1990; Echeverry et al. 1991; Morad and Beliveau 1991 and 1994; Shaked and Warszawski 1992 and 1995). Some researchers embedded commercially available planning and scheduling software in their Expert Systems: Moselhi and Nicholas (1990) chose

Promis and recommended Primavera; and Shaked and Warszawski (1995) chose Microsoft Project. This author thinks that integrating a commercial software is a step in the proper direction towards practical implementations. Morad and Beliveau (1991 and 1994) presented a system that integrated AI and CAD to generate CPM networks thereby visually simulating the construction process. The system has a good potential in improving constructability and visualization, also animation that helps in construction claims.

The relatively long time and effort needed to elicit and set up a knowledge base of an Expert System for a specific construction project renders it infeasible. This is especially true if most of the knowledge will not be transferable to other similar projects.

4.4.6.2 Neural Networks

Neural Networks (NN) are networks consisting of many computer microprocessors that are highly interconnected and can work in parallel, they are called processing elements (PE). Each PE attempts to emulate the biological neuron. The connections are associated with weights that modify the output signal on each path to become stronger or weaker than other paths. The intelligence is in the hardware in the form of generalized capability to learn. Learning is the process of adjusting the connection weights through thousands of cycles of example observations to make the NN produce the desired output. NNs are relatively simple to develop and modify and require less time and effort than ESs. NNs are suited to applications requiring pattern recognition and learning, recall by association and fault tolerance. NNs are designed to imitate the physical thought process of the biological brain. Unlike Expert Systems NNs do not provide explanations for the conclusions and can interpolate an output for a case even if that particular case was not observed during learning. (Laudon and Laudon 1991; Dawood 1994; Hegazy and Moselhi 1994; Ahuja et al. 1994).

NNs can supplement or complement ESs and can be more acceptable to practicing construction personnel than other non-AI techniques requiring advanced mathematics (Moselhi et al. 1991).

4.5 Closing Remarks

It was found through the literature review that the gap between CPM and LOB was not bridged in a way that encourages practical application in the industry. Researchers had continually indicated the need for enhancing a network-based solution that incorporates the LOB principles and schedules repetitive projects flexibly. They also preferred including some non-repetitive activities.

In the construction industry, almost all large project contracts mandate the use of CPM. This is coupled with an availability of affordable commercial CPM software. Consequently, in this research, it was decided to work within the fundamental principles of CPM and LOB and try to find a solution for combining them that would be immediately applicable in the industry. Expanding methods that needed advanced mathematical approaches for optimization were briefly investigated and excluded because of their current inability to lead to a practical and acceptable solution to the industry.

Primavera Project Planner was selected as a tool to perform the research because it is a popular CPM software, user friendly and available.

CHAPTER 5

CURRENT APPLICATIONS IN PLANNING REPETITIVE PROJECTS

5.1 Introduction

This chapter reviews real world applications of planning and scheduling techniques on projects with significant repetition. It is based on the author's personal observations on projects in Kuwait and the United States of America. Other references to projects in other countries were taken from the literature.

5.2 LOB Applications

The author had previously applied a method that was based on the American approach to the LOB. A typical network was established for the repetitive units as in Fig. 5.1 and lead times were calculated in a spreadsheet by subtracting the Early Finish of each typical repetitive activity from the completion date of the typical unit. Then the number which should be completed

Figure 5.1 - Typical Unit Network Showing Lead Times for Typical Repetitive Activities.

for each typical activity was read off against the line of completions by going forward in time the lead time of that activity (Fig. 5.2).

Figure 5.2 - Planned Completions for Typical Repetitive Activities per the American Approach of LOB.

The application was on a 260 house project. A separate straight flow line of planned completions was established for each prime subcontractor and a single network for a typical house was developed and lead times were calculated for each typical activity. Based on the lead times calculated and the algebraic formula of the completion flow line, a program written in BASIC calculated the required number of completions of each typical activity for the end of each projected month. Monthly updates were executed based on the actual number of typical activities completed and a realistic rate of completion for each typical activity was calculated. The BASIC program was soon considered redundant due to the alternative ease in application and presentation a spreadsheet could offer. A sample output of this program is shown in Table 5.1 for 51 houses, part of the project.

SAUD AND IBRAHIM AL ABDUL RAZAK EST.
JAHRA HOUSING PROJECT
260 HOUSES

UPDATED SCHEDULE OF JOB COMPLETIONS

Subcontractor: SEVEN SEAS (51 houses)

Based on actual progress till 31/1/88
Prepared by Eng. Saad Abdul Salam

Table 5.1 - Schedule of Activity Completions.

ACTIVITY DESCRIPTION	REQ RATE	QTY	FN SHD	FEB/88	MAR/88	APR/88	MAY/88	JUN/88	JUL/88	AUG/88	SEP/88	OCT/88	NOV/88	DEC/88
PLOT CLEARANCE		51		51	51	51	51	51	51	51	51	51	51	51
EXCAVATION & LAYOUT		51		51	51	51	51	51	51	51	51	51	51	51
PLAIN CONC. FOR FOOTINGS		51		51	51	51	51	51	51	51	51	51	51	51
REINFORCED CONC. FOR FOOTINGS		51		51	51	51	51	51	51	51	51	51	51	51
COLUMN NECKS		51		51	51	51	51	51	51	51	51	51	51	51
BACKFILLING TO GB. BOTTOM LEVEL	9.23	43		51	51	51	51	51	51	51	51	51	51	51
PLAIN CONCRETE FOR GROUND BEAMS	5.29	42		47	51	51	51	51	51	51	51	51	51	51
GROUND BEAMS	6.36	37		43	50	51	51	51	51	51	51	51	51	51
2nd BACKFILL & SLAB ON GRADE	8.22	31		39	47	51	51	51	51	51	51	51	51	51
GF COLUMNS	9.76	24		33	44	51	51	51	51	51	51	51	51	51
GF LOFT WALLS & SLABS	17.35	3		20	38	51	51	51	51	51	51	51	51	51
GF ROOF	11.13	15		26	37	48	51	51	51	51	51	51	51	51
FF COLUMNS	12.22	7		19	31	44	51	51	51	51	51	51	51	51
FF LOFT WALLS & SLABS	15.15	0		11	27	42	51	51	51	51	51	51	51	51
FF ROOF	12.05	2		14	26	38	51	51	51	51	51	51	51	51
PENTHOUSE COLUMNS & ROOF	13.51	0		1	15	28	42	51	51	51	51	51	51	51
R.C. COLUMNS OF PARAPETS	12.00	0		2	14	26	39	51	51	51	51	51	51	51
PRECAST WINDOWS ERECTION	11.11	0		3	15	26	37	48	51	51	51	51	51	51
GF & FF CEMENT BLOCK WORKS	9.00	3		12	21	30	39	48	51	51	51	51	51	51
BLOCK WORKS OF PENTHOUSE	13.51	0		0	6	19	33	47	51	51	51	51	51	51
BLOCK WORKS OF PARAPETS	11.81	0		0	12	23	36	47	51	51	51	51	51	51
SANDLIME BRICKS CLADDING	13.39	0		0	0	9	22	36	50	51	51	51	51	51
CAST IRON SANITARY PIPES	9.15	0		0	8	17	27	36	45	51	51	51	51	51
BOUNDARY WALL SUBSTRUCTURE(Pc.to GB.)	13.39	0		0	0	0	10	23	37	51	51	51	51	51
GALVANISED WATER SUPPLY PIPES	9.09	0		0	5	14	23	32	42	51	51	51	51	51
YARD PLUMBING PRECAST MANHOLES	13.04	0		0	0	0	7	20	33	47	51	51	51	51
YARD PLUMBING PIPES	13.27	0		0	0	0	2	15	29	43	51	51	51	51
WALL-EMBEDDED ELECTRICAL INSTALLATIONS	7.46	0		0	8	15	23	30	38	46	51	51	51	51
SANITARY HOUSE CONNECTION (Infra.)	13.16	0		0	0	0	0	12	26	39	51	51	51	51
ROOF DRAINS	7.69	0		0	3	11	19	26	34	42	50	51	51	51
MARBEL FRAMES	7.98	0		0	0	8	17	25	33	41	49	51	51	51
WOODEN FRAMES	7.94	0		0	1	9	17	25	33	41	49	51	51	51
PLASTERING PREPARATION	8.06	0		0	0	8	16	24	33	41	49	51	51	51
BLOCK WORKS OF SHAFTS	7.73	0		0	1	9	17	24	32	40	48	51	51	51
PLASTERING	8.06	0		0	0	6	14	22	30	39	47	51	51	51
PROCELAIN WORKS	7.69	0		0	0	5	13	21	29	37	45	51	51	51
PARAPET COPING & TANK SUPPORTS	7.94	0		0	0	4	12	20	28	36	44	51	51	51
COMMON BOUNDARY WALL REIN.CONC.COLUMN	9.20	0		0	0	0	5	14	23	33	42	51	51	51
YARD ELECTRICAL PIPES & HANDHOLES	10.34	0		0	0	0	0	9	20	31	41	51	51	51
SANITARY FITTINGS (Floor Embedded)	7.69	0		0	0	4	12	20	28	36	43	51	51	51
TERRAZO FLOOR TILING & SKIRTING	8.06	0		0	0	2	10	18	26	35	43	51	51	51
WATERPROOFING IN WET FLOOR AREAS	7.69	0		0	0	2	10	18	26	34	42	49	51	51
ELEC. & TELE. BOARDS, PANELS & WIRING	7.50	0		0	0	4	11	19	27	34	42	50	51	51
MARBEL STAIRS & SKIRTINGS	8.06	0		0	0	0	8	16	24	33	41	49	51	51
ROOF FOAM & SCREED	7.94	0		0	0	0	9	17	25	33	41	49	51	51
YARD EARTH WORKS & PLAIN CONCRETE	10.42	0		0	0	0	0	5	16	27	37	48	51	51
PRECAST UNITS OF BOUNDARY WALL	8.38	0		0	0	0	6	14	23	31	40	48	51	51
ROOF WATER PROOFING	7.94	0		0	0	0	7	15	23	31	39	47	51	51

Table 5.1 -

Schedule of Activity Completions (Continued).

SAUD AND IBRAHIM AL ABDUL RAZAK EST.
JAHRA HOUSING PROJECT
260 HOUSES

UPDATED SCHEDULE OF JOB COMPLETIONS

Subcontractor: SEVEN SEAS (51 houses)

Based on actual progress till 31/1/98
Prepared by Eng. Saad Abdul Salam

ACTIVITY DESCRIPTION	REQ	RATE	QTY	FNSHD	FEB/88	MAR/88	APR/88	MAY/88	JUN/88	JUL/88	AUG/88	SEP/88	OCT/88	NOV/88	DEC/88
PLASTERING OF SHAFTS & SKIRTINGS	8.06		0		0	0	0	0	6	14	23	31	39	47	51
GYPSUM BOARD FALSE CELLING	7.81		0		0	0	0	0	8	15	23	31	39	47	51
CERAMIC TILES	7.69		0		0	0	0	0	8	16	24	32	39	47	51
JOINERY WORKS (Door Leafs only)	7.69		0		0	0	0	0	8	16	24	32	39	47	51
ROOF EMBEDDED DRAINAGE PIPE	7.81		0		0	0	0	0	6	14	22	30	38	46	51
BRICK WORKS OF BOUNDARY WALL	10.34		0		0	0	0	0	0	2	12	23	33	44	51
BOUNDARY WALL CAST IN SITU COPING	10.34		0		0	0	0	0	0	0	10	21	31	42	51
PAINT PREPARATION (Primer & Putty)	8.06		0		0	0	0	0	2	10	19	27	35	43	51
ROOF THERMAL INSULATION & TILING	7.81		0		0	0	0	0	3	11	19	27	35	43	51
FRAMES & FINISHES OF YARD H/MANHOLES	10.14		0		0	0	0	0	0	0	8	18	28	39	49
PAINT FIRST & SECOND COATS	7.89		0		0	0	0	0	0	8	17	25	33	41	49
ALUMINUM FRAMES, WINDOWS & DOORS	8.02		0		0	0	0	0	0	8	16	24	32	41	49
WATER TANK & EXPOSED ROOF PIPES	7.77		0		0	0	0	0	1	9	17	25	33	41	49
YARD TERRAZO TILES & MASTIC WORKS	10.34		0		0	0	0	0	0	0	6	17	27	38	48
ELECTRICAL BOARDS CONNECTION	7.69		0		0	0	0	0	1	9	17	25	33	40	48
ALUMINUM FALSE CEILING	10.34		0		0	0	0	0	0	0	4	15	25	36	46
INTERNAL ELECTRICAL FITTINGS	7.94		0		0	0	0	0	0	6	14	23	31	39	47
SANITARY FIXTURES & ACCESSORIES	8.02		0		0	0	0	0	0	6	14	22	30	39	47
IRONMONGERY WORKS FOR WOODEN DOORS	7.89		0		0	0	0	0	0	7	15	23	31	39	47
STEEL GATES & PAINT UNDERCOATS	10.14		0		0	0	0	0	0	0	4	15	25	35	46
STAIRS HANDRAILS	6.85		0		0	0	0	0	6	12	19	27	33	40	47
ALUMINUM ACCESSORIES	7.94		0		0	0	0	0	0	6	14	23	31	39	47
EXTERNAL ELECTRICAL FITTINGS	10.34		0		0	0	0	0	0	0	3	14	24	35	45
ROOF MASTIC & TOUCH-UPS	7.65		0		0	0	0	0	0	7	15	23	31	39	46
LAST COAT OF PAINT	10.34		0		0	0	0	0	0	0	2	13	23	34	44
ELECTRICAL MAIN SWITCH BOARD	5.49		0		0	2	8	13	19	24	30	36	41	47	51
WATER TANK SHED	7.39		0		0	0	0	0	0	7	15	23	30	38	45
AGRICULTURAL SOIL	9.55		0		0	0	0	0	0	0	5	14	24	34	43
INT. & EXT. TERRAZO TILES GRINDING	10.34		0		0	0	0	0	0	0	1	11	22	32	43
INTERNAL MAIN CABLES	7.54		0		0	0	0	0	0	6	14	22	29	37	45
HOUSE FINAL CLEANING	10.34		0		0	0	0	0	0	0	11	21	32	42	51
PLUMBING NETWORKS TESTING	9.04		0		0	0	0	0	0	0	6	16	25	34	43
ELECTRICAL & TELEPHONE NETWORKS TEST	9.74		0		0	0	0	0	0	0	3	13	23	33	43
FINAL TOUCH-UP	10.27		0		0	0	0	0	0	0	9	19	30	40	51

The program was a powerful communication tool and was invulnerable to changes in sequence of work between the houses, which were numerous. This was so because it dealt with the completed activities as bare quantities regardless to which house they belonged. The site management and engineers preferred it to CPM, but it had its shortfalls. It could not readily indicate the impact of delays on the completion date of the project. It ignored the number of typical activities that were started but not completed in the calculations of "Quantity finished" and the planned completions.

Interestingly it offered a valuable approach to rectify out-of-logic progress problems. It was found that this approach dealt with out-of-logic progress with the following philosophy: as long as out-of-logic progress happened repeatedly, the violated logical relationships must have been either preferential or wrong, so progress could be corrected gradually by accelerating the rate of the delayed predecessor until it takes over the successor before or by the last unit and the logic is respected again (Fig. 5.3).

Fig. 5.3 shows activity B1 and C1 starting one and two days late then running in out-of-logic progress due to the less-than-planned rate of B and higher-than-planned rate of C. After "time now" B's rate was accelerated and C's was decelerated resulting in out-of-logic progress tapering off.

5.3 CPM Applications

Frequently owners specifically demand that contractors submit construction schedules based on computerized CPM. This has been a popular requirement despite the problems CPM application faces in projects with significant repetition.

The CPM-based approach is simply developing a subnetwork for each unit or house and link them together (Fig. 5.4). This assumes that a squad working on a typical activity, for example activity "D", is supposed to move from one house to the other according to the sequence dictated by the management and represented by the dotted relationships. However, the squads will frequently follow another sequence and the need for revising the dotted relationships would be a must to maintain a meaningful and a manageable schedule. A CPM software would not differentiate between logical relationships the way the scheduler would, a violation of any of them is an error even if it was preferential logic like the dotted relationships. The revision of the dotted

Figure 5.3 - Gradual Reduction of Out-of-Logic Progress by Varying the Rates of Completions.

Figure 5.4 - Sequence of Operations Driven by Logical Relationships.

relationships would not be an easy routine on a big project. The pattern of these dotted relationships will be more tedious to correct if the planner realistically deploys more than one squad to work on each typical activity. The author witnessed the application of this approach on several different projects in Kuwait, three prisons, two high-rises, and a hospital in California, USA. The literature shows that the same approach was utilized by Pedersen (1972) on a housing projects in Bergen, Norway. Russell (1993), however, has automated this approach in a computer program called REPCON and applied it in Canada.

To reduce the frequent effort of revising the dotted relationships in the above approach, another approach was adopted. The planner would make a single subnetwork for each cluster of houses, where each cluster represents a number of houses on abutting lots. The number of subnetworks would thereby be reduced considerably, and thus the number of dotted relationships connecting them. Fig. 5.5, shows how the subnetworks representing the clusters were linked to dictate the sequence of operation; for example, cluster I comprises two houses, so typical activity "A, house 1" now becomes "A, cluster I" and summarizing two houses; 1 and 2. The dotted relationships between clusters become start to start relationships with varying lags depending on the number of squads working on that typical activity and the sequence of operation. So if we assume that the variable "d" is the duration of each typical activity on just one house of a cluster, the dotted relationship between any activity "X, cluster II" and activity "X, cluster III" would be start to start with a lag of 1d (SS d) if four squads (a,b,c and e) are working on typical activity "X". However, if only three squads (a,b and c) are working on this typical activity "X", the relationship between activity "X, cluster II" and activity "X, cluster III" would be start to start with a lag of 2d (SS 2d).

This approach also needed revising the start to start relationships that connect the typical activities in related clusters each time the sequence of work on clusters changed and each time the quantity of squads working on a typical activity was revised. Additionally, the durations of the typical activities needed revision because they were dependant on the sequence of operation as well as the number of squads. Moreover, out-of-logic progress occurred within the typical subnetworks of the clusters as a result of the very nature of representing typical activities of many houses by one typical activity of a cluster. For example, on a three house cluster, like cluster III in Fig. 5.5, if the concrete roof started on house 7 after the completion of the columns of the same house and before the total completion of the columns of houses 8 and 9, (assuming sequential relationships) an out-of-logic progress error will take place, since columns of houses 7, 8 and 9 are represented by one CPM activity called "Columns, cluster III" and similarly for

Figure 5.5 - Durations and Logical Relationships Between Different Clusters Dictating Sequence of Operations.

the concrete roof. This out-of-logic progress is not real, it is the result of summarizing too many CPM activities. This author calls it artificial out-of-logic progress.

A minor deviation from the above approach, and rather simplistic, was to represent all the houses of the project by subnetworks of groups that comprise a constant number of houses throughout the schedule no matter how many houses in each cluster were. But, in a cluster of say 6 houses, it would not be organizationally nor technologically convenient to standardize the group size at 4 houses. And since the size of the clusters varied, standardizing the group size was not reasonable.

There was another modification that limited the dotted relationships to interfaces between selected repetitive activities. This was noted in a housing project in Kuwait as well as a prison project in Northern California. The problem with this approach is that while it staggers the linked activities realistically based on the availability of squads it may project an unrealistic and stacked plan for those that are not linked. This stacking of the typical repetitive activities often means a requirement above the available number of squads to perform the work.

It is worth noting that none of the CPM applications mentioned above, calculated the number of squads based on the LOB technique. Surprisingly, the issue of balancing the squads did not seem to attract the attention of the users.

5.4 Future Expectation

The current applications in the construction industry are very much influenced by the owners and the construction managers, the typical bodies that put the schedule specifications in the contracts. This is, presumably influenced by the current available level of skill in the industry concerning managers and technicians as well. Any more sophisticated approach than the current approaches will have to consider a compatibility with the available skills. It is unlikely that the construction industry will commit additional resources in training unless it sees a reasonable chance of improving cost savings and performance.

Simplicity in solving the problems associated with planning and scheduling repetitive construction is an extremely important issue if a new methodology is intended for practical application in the industry.

CHAPTER 6

CPM/LOB NEW METHODOLOGY

6.1 Introduction

In repetitive construction, there is no doubt that the independent application of the LOB and the CPM did not satisfy their users. Construction veterans downplayed the application of CPM in repetitive-construction projects which are usually large projects and provide wide fronts for resource deployment. This stimulated intensive research over the past decades to combine the merits of both methods. Unfortunately, the application of the LOB almost vanished and the application of CPM failed to respond to the frequent changes in the sequence of operation between the repetitive units and to maintain work continuity for the working squads. As will be demonstrated in this chapter, CPM/LOB revives the LOB and achieves the objective of integrating the merits of the two methods. It centers around resource leveling and the utilization of float times to streamline the scheduling process. The virtue of CPM/LOB lies in its simplicity of application that enables the user to plan and control effectively using CPM, a tool with which he is already familiar.

6.2 Parallel Scheduling

In LOB, parallel scheduling is the strategy of compelling all the repetitive activities of a project to progress at a single rate of completion. The purposes are, ease of planning in the office and reduced overall project duration. However, when that single rate of completion denies the natural rhythm of some repetitive activities, their squads shall be forced to encounter waiting times. On the other extreme side, adhering to the natural rhythm of each repetitive activity may save direct costs but may also push the project completion date into the future thereby raising indirect costs.

It is a fact that construction projects rarely follow their initial schedules which sometimes project plans far ahead in the future. Nowadays, delays and, to a lower extent, accelerations, affect almost every project with varying degrees. Delays affect the repetitive activities and disrupt the natural rhythm when either start or end buffers between repetitive activities are exceeded. It is therefore realistic and probably safer to start with parallel scheduling and leave contingent time towards the end of a project to accommodate the inevitable changes as they unfold. Float times

whether existing in the original plan or generated due to later on delays offer an opportunity in parallel scheduling that should not be missed to relax the rate of completions of some repetitive activities and possibly satisfy their natural rhythm without further delay to the project.

6.3 Float Utilization Concept

Figure 6.1 - Utilization of Float in Parallel Scheduling of LOB.

Fig. 6.1, situation a, shows a LOB diagram of a sample housing project, where each typical housing unit has four typical activities A, B, C and D. The typical network has activities B and D running in parallel. Activity D has some float time that is represented by the dotted thick line. For clarity, only the first and last typical networks of the houses are shown.

Each of these typical activities in the diagram has the same rate of completion, which if reduced will delay the completion of the whole project. However, typical activity D may utilize its float without delaying the project completion. Fig. 6.1 situation b, clearly shows that. Within a parallel scheduling environment, the progress of a typical activity with float maybe adjusted towards its natural rhythm through using that float without delaying the project.

6.4 The Methodology of CPM/LOB

The objective of this methodology is to overcome the main challenges in CPM scheduling of repetitive construction projects; changes in sequence, and the lack of control on the continuity of work through a practical combination of CPM and LOB in the already developed CPM context.

The fundamental principles of this methodology were first developed by the author on a large and troubled housing project in Kuwait in 1987 after being confronted on the field with the above mentioned challenges.

Traditionally, on a jobsite of a housing project, the main question on the mind of a project manager, is how many squads of a particular trade or sets of roof shutters, etc. are adequate to complete the project on time. Therefore, a planner must consider building up a schedule responsive to this need; in other words, making his schedule resource oriented. This understanding should encourage the scheduler to use resource leveling along with time scheduling.

In Fig. 6.1 situation a, each of the typical activities in the diagram has the same amount of time from the first unit completion to the last unit completion. This amount of time is called the available time for project completions, T_{ap} . Also the rate of completions, R , is the same for all the typical activities and is equal to

$$R = \frac{\text{Number of units} - 1}{T_{ap}} \quad (6.1)$$

The quantity of squads required to complete each typical activity on time, S , is then

$$S = R \times \text{Duration of squad work on activity} \quad (6.2)$$

$$S \leq \text{Total number of units} \quad (6.3)$$

Here, a squad can be a combination of craftsmen working on one particular typical activity (such as typical activity D) throughout the project for a certain duration that needs not be identical to the duration of the activity. For example: on a concrete roof that has a planned activity duration of 12 days, there can be three squads working on it; carpenters, working for 11 days, iron workers, working for 4 days and concreters, working for 1 day. The carpenters' squad may comprise 2 carpenters and 4 laborers and it is considered just one squad. Similarly, the other two squads, iron workers and concreters, may comprise a combination of craftsmen.

If all the front events of the typical networks of the houses are linked to a start milestone activity such as, Project Start, and likewise the end events to activity Project Completion, all these networks will become subnetworks and can float between the Project Start and Project Completion activities. Since the quantity of the required squads for each typical activity can be calculated from the previous equations, these subnetworks can be staggered realistically by performing resource leveling of the different squads. The intended sequence of operation from one unit to the other on site, can be dictated by a simple rule in resource leveling; a sequential priority code can be assigned to each typical activity that maintains the allocation of the required squads according to the intended sequence of operation.

However, as mentioned in the previous section, some activities may have some float that can be utilized to adjust their rate of completions and relax the demand on their squads. Typical activity D, in Fig. 6.1 has a certain duration of float. If this float, is totally utilized, the progress of activity D will take the shape of the shaded parallelogram shown in situation b without affecting any other activity in any unit. Therefore, the duration from the completion of activity D on the first unit to the completion of the same typical activity on the last unit, T_{ap} , can be increased by up to the total float of that typical activity calculated from its original typical unit network. Thus, a more general equation for calculating the available time for completions for each typical activity, T_{aa} , becomes

$$T_{aa} = T_{ap} + \text{total float of the typical activity} \quad (6.4)$$

Consequently, the minimum rate of completions of a typical activity required to complete the project on time, R_{ma} , is

$$R_{ma} = \frac{\text{Number of units} - 1}{T_{aa}} \quad (6.5)$$

Activity D may progress, in any rate of completion between R and R_{ma} , which is anywhere between situation a and situation b. The other activities that have no float in the typical unit network, must progress at a rate R that is equal to R_{ma} in their case.

Fig. 6.2 details the steps to develop the initial or the as-planned schedule in CPM/LOB.

Clearly, any change in the sequence of operation between the typical units can be accommodated by simply revising the values of the priority codes of the affected activities. This process is easier than revising the logical relationships to dictate a new sequence of operation. Also, work continuity for each squad is maintained to a practical extent through resource leveling of the squads that imposes such rates of completions that do not cut in on other activities.

6.5 Example 6.1, Developing the Initial Schedule

Fig. 6.3 shows a LOB diagram for planning the execution of 10 units in 38 days. Each unit is represented by one typical subnetwork that contains 8 activities and needs 27 days to be completed. Only the subnetworks of the first and tenth units are shown for clarity. All the subnetworks start from event 11 and end by event 17. There are no logical relationships between the typical activities of the subnetworks. The inclined lines represent the flow lines of activity completions.

The available time for project completions, T_{ap} , is therefore

$$T_{ap} = \text{target completion date of project} - \text{EF date of 1st unit} \quad (6.6)$$

$$T_{ap} = 38 - 27 = 11 \text{ days}$$

Scheduling a typical unit network will produce the following total float durations; activities F & G, 7 days; activity H, 12 days; A, B, C, D & E, no float. The minimum quantity of squads to complete the project in 38 days can be calculated using equations 6.4, 6.5, and 6.2 and as shown in Table 6.1.

Figure 6.2 - Steps of Developing a CPM/LOB Schedule.

Figure 6.3 - Example 6.1, LOB Diagram Showing Subnetworks of First and 10th Units.

Typical activity	Resource duration D	Total float TF	Available time for completions $T_{sa} = \{T_{sp} + TF\}$	Minimum rate of completions $R_{sa} = \{(10-1) \div T_{sa}\}$	Minimum quantity of squads $S_{sa} = \{D \times R_{sa}\}$	Rounded S_{sa}
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A	3	0	11	0.818	2.454	3
B	5	0	11	0.818	4.090	5
C	10	0	11	0.818	8.180	9
D	6	0	11	0.818	4.908	5
E	3	0	11	0.818	2.450	3
F	2	7	18	0.500	1.000	1
G	1	7	18	0.500	0.500	1
H	2	12	23	0.391	0.782	1

Table 6.1 - Example 6.1, Calculation of the Quantity of Squads.

Figs. 6.4 and 6.5 show, symbolically, how the total floats of the noncritical activities were used to spread the work over a longer period and reduce the demand on the quantity of squads needed. The quantity of squads listed on the last column of Table 6.1 can now be entered into the CPM software as resource availability. A priority code should now be assigned to each activity to impose the sequence or order of operation from one unit to the following one. In this example, the work is planned to proceed on the units in the order: 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10. This means that typical activity A of unit 1, A 01, will have a priority code of 1 and activity A 02 priority 2 and so on until the last unit, and similarly for the other typical activities. Upon performing time scheduling and resource leveling prioritized by the priority codes, the results are immediately obtained as in Fig. 6.6. The bars represent the early work and the dashed lines represent the late work. The difference between them is the total float. The total float gives a measure of both the time and the resource criticality of the activities.

Fig. 6.7, shows a more realistic version than Figs. 6.3—6.5 of the activity completions flow lines. This is derived from the CPM software. Note that due to the nongradual (stepline) starts of the squads on the typical activities in contrast with the way it is traditionally shown on a LOB diagram (straight line), an early completion may be realized. In this example, the full utilization of the squad working on typical activity F could not have been less gradual and

Figure 6.4 - Example 6.1, LOB Diagram Showing Branch FG of First and 10th Unit Subnetworks.

Figure 6.5 - Example 6.1, LOB Diagram Showing Branch FH of First and 10th Unit Subnetworks.

Figure 6.6 - Example 6.1, Bar Chart.

Figure 6.7 - Example 6.1, Flow Lines of Typical Activities Based on Early Finishes.

therefore typical activity F paced the project and made it complete precisely on day 38 and not earlier.

Note that if the total floats of typical activities F and H were not utilized, a higher and unnecessary resource requirement would be demanded, which, if provided would not make the project complete earlier

$$T_{aa} \text{ of activities F and H} = 11 \text{ days} + 0 \text{ total float}$$

$$R_{ma} = (10 - 1) \div 11 = 0.818 \text{ units/day}$$

$$S_{ma} = 0.818 \times 2 = 1.636 \text{ squads}$$

and

$$S_{ma} \text{ (rounded)} = 2 \text{ squads, instead of one squad previously calculated}$$

To demonstrate how easy it is to change the sequence of operation, assume that the project manager decides to put house 9 third in order and house 3 ninth in order. The scheduler can accordingly revise the priority codes of the activities of houses 3 and 9, and perform resource leveling thereafter. The process of revising the sequence and getting the output in Fig. 6.8, can be as quick as the computer and the CPM software. It requires minimal and negligible effort from the scheduler.

Fig. 6.9, shows the lines of balance for an arbitrary point in time, end of day 25. Clearly, for each typical activity the difference between the levels of the solid line and the dotted line represents the allowable quantity of completions beyond which the completion date of the project will be delayed.

Figure 6.8 - Example 6.1, Bar Chart—Revised Sequence.

Figure 6.9 - Example 6.1, CPM/LOB Chart for Day 25.

6.6 Example 6.2, Updating and Accelerating by CPM/LOB

This is based on the ten unit project of example 6.1. The assumption is that it is now end of day 10 and the CPM is showing the project forecast completion two days behind schedule. The objective is recovering the delay and exchanging the sequence of unit 4 and unit 7 due to a certain problem on site.

Fig. 6.10 shows the actual progress until end of day 10 and the forecast dates of the future progress based on the same quantity of squads allocated in example 6.1. The calculation of this updated schedule in Fig. 6.10, is obtained after entering the assumed actual dates and progress percentages on example 6.1, revising the sequence, performing time scheduling, and resource leveling the squads. The quantities of squads are kept unchanged from the beginning of the project according to example 6.1. The current forecast completion is day 40 which is two days behind the initial target completion, day 38.

Figure 6.11 - Example 6.2, CPM/LOB Chart at End of Day 10 Showing Imbalance.

Fig. 6.11 shows the CPM/LOB chart at the end of day 10. Clearly the progress of the project is unbalanced. While typical activities A and B are ahead of the early schedule, typical activity F is behind the late schedule.

Figure 6.10 - Example 6.2, Bar Chart Showing Status at End of Day 10 and a Forecast Completion on Day 40.

Figure 6.12 - Example 6.2, Steps of Applying CPM/LOB in Adjusting a Schedule.

CPM/LOB shall now be applied to change the sequence of progress on the units and accelerate the schedule to recover the 2 day delay. Fig. 6.12 shows the steps of this application. The current step is the calculation of the minimum quantities of squads to complete the project on time, day 38.

To get the quantity of squads it is necessary to calculate the available time for activity completions, T_{aa} for each typical activity and, R_{ma} , the minimum rate of completions for each typical activity

$$T_{aa} = \text{latest LF (last unit)} - \text{earliest EF (the current first unit)} \quad (6.7)$$

Where LF is late finish and EF is early finish. Therefore T_{aa} for the seven uncompleted typical activities is as shown in Table 6.2.

Typical activity	T_{aa}
B	$19 - 11 = 8$
C	$29 - 20 = 9$
D	$35 - 26 = 9$
E	$38 - 29 = 9$
F	$28 - 12 = 16$
G	$29 - 13 = 16$
H	$35 - 14 = 21$

Table 6.2 - Example 6.2, Calculation for Adjusting Available Time for Activity Completions.

The minimum rate of completions for each typical activity to complete the whole project on day 38, R_{ma} , can be obtained from the following equation:

$$R_{ma} = \frac{\text{number of uncompleted repetitive activities} - 1}{T_{aa}} \quad (6.8)$$

The minimum quantity of squads, S_{ma} , can now be calculated from equation (6.2)

$$S_{ma} = R_{ma} \times \text{duration of squad work on activity} \quad (6.2)$$

Table 6.3 shows the calculation of the adjusted minimum quantity of squads of the typical activities to complete the project on the original completion target, day 38.

Typical activity	Initial S_{ma} (from example 6.1)	Quantity of uncompleted repetitive activities	$R_{ma} = \{(3)-1\} \div T_{sa}$	$S_{ma} = \{\text{Duration} \times R_{ma}\}$	Rounded S_{ma}
(1)	(2)	(3)	(4)	(5)	(6)
B	5	4	0.375	1.875	2
C	9	10	1.000	10.000	10
D	5	10	1.000	6.000	6
E	3	10	1.000	3.000	3
F	1	10	0.563	1.125	2
G	1	10	0.563	0.563	1
H	1	10	0.429	0.858	1

Table 6.3 - Example 6.2, Calculation of Minimum Quantity of Squads to Complete Project on Original Completion, Day 38.

The following step is entering the quantity of squads listed on the last column of table 6.3 into the CPM software as the resource availability necessary to complete the project on day 38. The priority codes in this example are revised; units 4 and 7 exchanged priorities. After performing time scheduling and resource leveling the results are obtained and shown in Fig. 6.13.

It is noted that there was a significant change in the minimum quantity of squads required for some activities to complete the project on day 38. While the demand of typical activity B on squads was reduced from 5 to 2 because of its over completions, some of the following typical activities needed more squads due to the critical delay of typical activity F.

Figure 6.13 - Example 6.2, Bar Chart at End of Day 10 Showing Acceleration to Complete on Day 38.

6.7 Example 6.3, Initial Schedule with SS and FF Relationships

Figure 6.14 - Example 6.3, Logic Diagram of a Typical Unit.

This example exhibits the usage of the precedence diagram method to show nontraditional relationships between the activities: start to start SS, finish to finish FF and finish to start FS with a lag. Fig. 6.14 shows the logic diagram of one unit of ten that make up the project. A single calendar is used which has 7 workdays a week. The objective is to create a schedule to begin the work on November 1, 1994 and complete it by December 1, 1994.

The available time for completions for each typical activity, T_{aa} , can be calculated from equation (6.4) or alternatively obtained from the CPM software. In the CPM software, when the schedule of one unit network is run independently, the total floats of the activities are calculated based on the early finish date of one unit network, or the assumed first typical unit network. However, if for this same schedule, a date after the unit early finish date is imposed as a required completion date, the time difference between the two dates will become the T_{ap} of the project, the available time for project completions. Consequently the individual total floats of each activity

in the typical unit network are increased by an amount equal to T_{ap} which make them equal to T_{aa} , the available time for completions for each typical activity per equation (6.4).

The above concept was applied on the typical unit network of Fig. 6.14 by imposing December 1, 1994 as a completion date and running the schedule to start on November 1, 1994. Fig. 6.15 shows the results where the total floats equal the T_{aa} 's of the activities.

Resource duration does not equal activity duration					PRIMAVERA PROJECT PLANNER					SS & FF relationships, unit network				
REPORT DATE 4NOV94 RUN NO. 35					START DATE 1NOV94 FIN DATE 1DEC94*									
14:33					DATA DATE 1NOV94 PAGE NO. 1									
T1-CLASSIC SCHEDULE REPORT - SORT BY ID XSTP														
ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	ACTIVITY DESCRIPTION					EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
A	2	2	1	0	WORKPERIOD					1NOV94	2NOV94	20NOV94	21NOV94	19
										1	2	20	21	
B	4	4	1	0	WORKPERIOD					3NOV94	6NOV94	22NOV94	25NOV94	19
										3	6	22	25	
C	3	3	1	0	WORKPERIOD					7NOV94	9NOV94	26NOV94	28NOV94	19
										7	9	26	28	
D	3	3	1	0	WORKPERIOD					10NOV94	12NOV94	29NOV94	1DEC94	19
										10	12	29	31	
E	3	3	1	0	WORKPERIOD					5NOV94	7NOV94	29NOV94	1DEC94	24
										5	7	29	31	
F	2	2	1	0	WORKPERIOD					3NOV94	4NOV94	27NOV94	28NOV94	24
										3	4	27	28	

Figure 6.15 - Example 6.3, Schedule Report Showing T_{aa} under the "Total Float" Column.

Table 6.4 shows the calculations of the minimum quantity of squads or resources to achieve a December 1, 1994 completion. It is noted that the duration of typical activity C is three days and that it has two squads assigned to it, S1C and S2C. Squad S2C is partially applied to the activity duration since it is required for only one day.

Typical activity	Squad	Squad duration D	Available time for completions T_{sa}	Minimum rate of completions $R_{sa} = \{(10-1) \div T_{sa}\}$	Minimum quantity of squads $S_{sa} = \{D \times R_{sa}\}$	Rounded S_{sa}
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A	SA	2	19	0.474	0.95	1
B	SB	4	19	0.474	1.90	2
C	S1C	3	19	0.474	1.42	2
	S2C	1	19	0.474	0.47	1
D	SD	3	19	0.474	1.42	2
E	SE	3	24	0.375	1.13	2
F	SF	2	24	0.375	0.75	1

Table 6.4 - Example 6.3, Calculation of Minimum Quantity of Squads to Complete by December 1, 1994.

The other nine unit networks are created after duplicating the typical unit network. Resource availability is entered in the CPM software per Table 6.4, column (7). Following that, time scheduling and squads leveling result in the bar chart of Fig. 6.16 where the early finish date is November 30th. A one day gain was realized due to the rounding up of the squad quantities.

Figure 6.16 - Example 6.3, Bar Chart.

6.8 Example 6.4, Initial Schedule with Multiple Calendars

This is based on all the details of example 6.3 with the exception of the calendar. There will be two additional calendars to the existing 7 workday calendar of example 6.3: a second calendar of 6 workday weeks and a third calendar of 5 workday weeks. Fig. 6.17 shows the details of the project calendars.

Three calendars & OD >< RD		PRIMAVERA PROJECT PLANNER					
REPORT DATE 24OCT95 21:36	PROJECT CALENDAR				DATA DATE 1NOV94	START DATE 1NOV94	
PAGE NO. 1							
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1NOV94	2NOV94	3NOV94	4NOV94	5NOV94
CAL= 1 7 workdays/week			1	2	3	4	5
CAL= 2 6 workdays/week			1	2	3	4	5
CAL= 3 5 workdays/week			1	2	3	4	NO WORK
	6NOV94	7NOV94	8NOV94	9NOV94	10NOV94	11NOV94	12NOV94
CAL= 1 7 workdays/week	6	7	8	9	10	11	12
CAL= 2 6 workdays/week	NO WORK	6	7	8	9	10	11
CAL= 3 5 workdays/week	NO WORK	5	6	7	8	9	NO WORK
	13NOV94	14NOV94	15NOV94	16NOV94	17NOV94	18NOV94	19NOV94
CAL= 1 7 workdays/week	13	14	15	16	17	18	19
CAL= 2 6 workdays/week	NO WORK	12	13	14	15	16	17
CAL= 3 5 workdays/week	NO WORK	10	11	12	13	14	NO WORK
	20NOV94	21NOV94	22NOV94	23NOV94	24NOV94	25NOV94	26NOV94
CAL= 1 7 workdays/week	20	21	22	23	24	25	26
CAL= 2 6 workdays/week	NO WORK	18	19	20	21	22	23
CAL= 3 5 workdays/week	NO WORK	15	16	17	18	19	NO WORK
	27NOV94	28NOV94	29NOV94	30NOV94			
CAL= 1 7 workdays/week	27	28	29	30			
CAL= 2 6 workdays/week	NO WORK	24	25	26			
CAL= 3 5 workdays/week	NO WORK	20	21	22			
					1DEC94	2DEC94	3DEC94
CAL= 1 7 workdays/week					31	32	33
CAL= 2 6 workdays/week					27	28	29
CAL= 3 5 workdays/week					23	24	NO WORK

Figure 6.17 - Example 6.4, Three Work Calendars.

Typical activities C and E will follow a 6 workday week calendar (calendar 2), and typical activity F will follow a 5 workday week calendar (calendar 3). Fig. 6.18 shows the

Resource duration does not equal activity duration					PRIMAVERA PROJECT PLANNER		SS & FF relationships, unit network																			
REPORT DATE		7NOV94		RUN NO.		37		START DATE		1NOV94		FIN DATE		1DEC94*												
		11:36																								
T1-CLASSIC SCHEDULE REPORT - SORT BY ID					X5TP				DATA DATE		1NOV94		PAGE NO.		1											
ACTIVITY ID					ORIG DUR		REM DUR		CAL		%		ACTIVITY DESCRIPTION				EARLY START		EARLY FINISH		LATE START		LATE FINISH		TOTAL FLOAT	
A					2		2		1		0		WORKPERIOD				1NOV94		2NOV94		19NOV94		20NOV94		18	
																	1		2		19		20			
B					4		4		1		0		WORKPERIOD				3NOV94		6NOV94		21NOV94		24NOV94		18	
																	3		6		21		24			
C					3		3		2		0		WORKPERIOD				7NOV94		9NOV94		25NOV94		28NOV94		16	
																	6		8		22		24			
D					3		3		1		0		WORKPERIOD				10NOV94		12NOV94		29NOV94		1DEC94		19	
																	10		12		29		31			
E					3		3		2		0		WORKPERIOD				5NOV94		8NOV94		29NOV94		1DEC94		20	
																	5		7		25		27			
F					2		2		3		0		WORKPERIOD				3NOV94		4NOV94		25NOV94		28NOV94		16	
																	3		4		19		20			

Figure 6.18 - Example 6.4, Schedule Report Showing T_{aa} under the "Total Float" Column.

schedule report of one typical unit network having activities on different calendars. So for example, work period 6 means two different dates on two different calendars. The total floats of the activities are based on their relevant work periods per their calendars, hence they represent their individual available time for completions, T_{aa} in workdays.

Table 6.5 displays the calculation of the minimum quantity of squads based on a December 1, 1994 completion and three different calendars. Column (7) demonstrates that only the quantity of squads of typical activity F need to be double that of example 6.3 to finish on target. Fig. 6.19 shows a bar chart of all the project activities. It is noted that some activity bars are "necked" on nonwork periods and that the completion date of December 1, 1994 is achieved.

Typical activity and calendar	Squad	Squad duration	Available time for completions	Minimum rate of completions	Minimum quantity of squads	Rounded S_{ma}
(1)	(2)	D	T_{ua}	$R_{ma} = \frac{1}{\{(10-1) + T_{ua}\}}$	$S_{ma} = \{D \times R_{ma}\}$	(7)
A, 1	SA	2	18	0.500	1	1
B, 1	SB	4	18	0.500	2	2
C, 2	S1C	3	16	0.563	1.69	2
	S2C	1	16	0.563	0.56	1
D, 1	SD	3	19	0.474	1.42	2
E, 2	SE	3	20	0.450	1.35	2
F, 3	SF	2	16	0.563	1.13	2

Table 6.5 - Example 6.4, Calculation of Minimum Quantity of Squads to Complete by December 1, 1994.

The following two examples were selected from the literature to challenge the application of CPM/LOB. In the surveyed literature, there is an abundance of examples that can substantiate the advantages of CPM/LOB application in a straightforward fashion. However, the author's purpose goes beyond exhibiting examples readily showing the strength of CPM/LOB to draw more credence from its applicability on sophisticated examples published by experts in the field. Examples 6.5 and 6.6 represent the nature of complex construction processes as experienced by two authorities in this area of knowledge.

Figure 6.19 - Example 6.4, Bar Chart.

6.9 Example 6.5, Pipeline Project

This example is taken from Thompson (1981), *Organization and Economics of Construction*. A pipeline project comprising the laying of 26 Kilometers of a water pipe (Fig. 6.20). There is hard rock from chainage 10 to 13 Km, and bridgings at chainages 2, 7, 14, 18 and 22 Km. Commencing week 1, pipes are available at 1000 m/wk. Two stringing squads are mobilized and each can handle 1000 m/wk. Five pipelaying squads are employed with each having a rate of 300 m/wk in normal ground. However, in hard rock their rates are much slower. There is one bridging squad working at a rate of four weeks per bridge or crossing. Testing water would be available during week 33. Testing takes two weeks for each three Kilometer segment and can proceed concurrently on alternate segments. Pipelaying and stringing can not be done concurrently on one Kilometer due to space constraints. Squads can not be increased and their continuity is to be maintained. Fig. 6.19 shows the application of the location-time method to achieve the project goals of minimum cost and completion by end of the 37th week. It was inferred from Thompson's solution that the work followed a calendar of six workdays per week.

Clearly this is a repetitive construction project where CPM/LOB should be applicable. Fig. 6.20 demonstrates the certainty of incorporating the aforementioned details of the pipeline project into a CPM network utilizing CPM/LOB. The logical relationships and constraints are respected while squads continuity is maintained to achieve the same completion date (end of week 37). Certain squads were directed to specific chainages to follow the location-time solution presented by Thompson. This was achieved by allocating these particular squads to the corresponding locations then performing time scheduling and prioritized resource leveling. Squads availability was allowed in the CPM software in conformity with the constraints and availabilities set by Thompson.

The first finding is that the project duration was optimum, therefore could not be reduced. However, CPM/LOB has shown an advantage through the identification of some floats.

Another advantage of the application of CPM/LOB on this example can be demonstrated by the ability to perform quick what-if analyses: assume that only one stringing squad was available to the project and find the impact. Fig. 6.22 shows the effect of eliminating one stringing squad on the arrangement of the work and on the completion date. The delay is about two weeks and a half and the criticality of some activities changed, notably the testing activities.

Figure 6.21 - Example 6.5, Bar Chart Showing Alternate Solution to Pipeline Project Using CPM/LOB.

Sheet 1 of 3

Figure 6.22 - Example 6.5, Bar Chart Showing the Impact of Eliminating One Stringing Squad.

6.10 Example 6.6, High-rise Building

This follows an example published in a paper authored by Russell and Wang (1993), *New Generation of Planning Structures, Journal of Construction Engineering and Management*, ASCE. The authors presented the application of a construction management software called REPCON on a high-rise building; a ten story concrete building with large floor plans which must be poured in two stages per floor, zone one and zone two. The core, walls and columns are crane intensive.

Figure 6.23 - Example 6.6, Subnetworks of High-rise Building.

Work continuity for the slab forming squad has to be facilitated. The core should not lead the floors construction by more than three floors to avoid obstructing the tower crane rotation. A self-climbing form is used on the core. Fig. 6.23 represents some of the typical floor subnetworks. Table 6.6 lists the description of the typical activities. Activity HH, Overhead HVAC rough in,

Typical activity (1)	Description (2)
AA	Form core
BB	Reinforcement of core
CC	Place concrete of core
D1	Form slab zone 1
D2	Form slab zone 2
E1	Reinforcement of slab zone 1
E2	Reinforcement of slab zone 2
F1	Place concrete of slab zone 1
F2	Place concrete of slab zone 2
G1	Form, reinf. & pour walls and columns, zone 1
G2	Form, reinf. & pour walls and columns, zone 2
HH	Overhead HVAC rough in

Table 6.6 - Example 6.6, Activities of a Typical Floor.

was added by this author to expose and highlight the distinction in the application of CPM/LOB. The rest of the activities were presented by Russell and Wang and were driven by logic relationships as shown in Fig. 6.23. Activity durations had to be assumed by this author to exclude the effect of the learning curve on the schedule calculations.

The finish to start relationships between typical activity CC (place concrete of core) and typical activity AA (form core) on the floor above denotes an absolute technological constraint where the form of the core of a particular floor can not be set up before placing the core concrete of the level below. Similarly, typical activities D1 and D2 (form slabs) have to succeed G1 and G2 (form, reinforcement & pour walls and columns) of the floor below respectively. D1 and D2 are planned sequentially since one forming squad is employed. In order to limit the progress gap between the core and the floors, and give leeway to the tower crane, typical activity AA should not start before the completion of typical activities G1 and G2 three floors below.

It is obvious that the sequence of the planned progress is absolute and can not be changed. This sequence is mandated by the logical relationships between the activities. REPCON, the

Figure 6.24 - Example 6.6, High-rise Building Activities Driven by Logic Relationships.

Figure 6.24 - Example 6.6, High-rise Building Activities Driven by Logic Relationships (Continued).

project management software presented by the authors, summarizes these logic relationships in a global and general form that enables speedy development and revision. Each time change is necessary it is done globally instead of an otherwise tedious revision of each relationship and therefore considerable time is saved on large CPM networks. REPCON does not however, utilize resource leveling. As of this writing none of the published literature surveyed gave adequate details on how its mechanism develops and revises logic relationships globally.

Alternatively, this author utilized Primavera Project Planner® to calculate the schedule of the example presented by the authors while adhering to the details in Fig. 6.23. The output of Primavera is shown in Fig. 6.24 in a linked bar chart form. The subnetworks are linked by interface logic relationships and no resource scheduling is used initially in imitating REPCON. For better clarity only driving relationships are shown. The end-to-end placement of activities denotes a finish to start relationship in conformity with Fig. 6.23. It is noted that the continuity of the forming squad on typical activities D1 and D2 is maintained.

CPM/LOB using resource leveling as a vehicle to maintain continuity of the repetitive activities and drive their sequence of execution, it does not aim at interfering with the interface logic relationships between the repetitive subnetworks of a project, in this case between the subnetworks of the multiple floor levels. The main reason is interface logic relationships become redundant where prioritized resource leveling offers superior and dynamic alternatives. However, in this case, the added constraint of the tower crane freedom to rotate and the objectionable start of typical activities D1 and D2 before the completion of G1 and G2 on the floor below necessitate supplementing CPM/LOB with some interface logic relationships. In CPM/LOB these interface logic relationships are completely redundant on repetitive projects where the subnetworks are independent and the sequence of progress can start and change independent on previous subnetworks (e.g. housing projects).

Fig. 6.25 shows the output of Primavera after the application of CPM/LOB. The logic relationships between typical activity D1 and D2 were deleted, however, the same continuity was effected through employing and leveling one forming squad. Of course the priority codes for typical activities D1 and D2 followed the obvious succession from zone to zone then from floor to floor going upward.

Typical activity HH (overhead HVAC rough in) is a finishing activity and does not have to follow the same sequence of progress of the concrete structure. Like many other finishing

Figure 6.25 - Example 6.6, CPM/LOB Application on High-rise Building.

Figure 6.25 - Example 6.6, CPM/LOB Application on High-rise Building (Continued).

activities on a high-rise building, regardless of cost savings, its progress is independent on previous floors and may follow an unrestricted sequence analogous to that of a housing project activity. Fig. 6.25 shows typical activity HH following that unrestricted sequence which was driven exclusively by an arbitrary priority code and resource leveling in CPM/LOB. Surely, logic relationships of activity HH within each subnetwork were not contradicted.

It is vital to emphasize the essential difference between the repetition on a high-rise building and on a housing project. On a high-rise the start of a typical floor is dependent on one or more activities in the preceding floor, whereas on a housing project the start of a typical unit is usually independent on the preceding typical unit. As demonstrated on the complex sequences of the concreting activities, this poses no impracticability to utilize CPM/LOB on a high-rise. Through a limited usage of interface logic relationships this can be achieved. On the other hand, finishing activities can be scheduled with pure resource leveling with no interface logic relationships in a completely unrestricted sequence.

Continuity of a typical activity on a high-rise can be interrupted because of a cyclic activity. A cyclic activity is a repetitive activity that is part of a periodic string of repetitive activities which may start on each subnetwork only after the completion of the whole string on the previous subnetwork. Activities AA, BB and CC are cyclic. Activity AA can not be continuous because of its cyclic successors BB and CC. On the other hand, although typical activities D1 and D2 are cyclic activities, they maintained alternate continuity because their single durations are more than the remaining total durations of their respective periodic string and they are parallel ($D1 > E1 + F1 + G1$). D1 and D2 (form slab zone 1 and 2) were worked on by one uninterrupted forming squad.

6.11 Practical Implications

With the introduction of float in the LOB, there can be many lines of balance between the early and late dates of the activities. Fewer squads may be adequate for typical activities that have float without delaying the project completion.

The rounding up of the quantity of squads before inputting the CPM software along with the nongradual starts of these squads (step flow lines) will result in slightly varying rates of completions, therefore minor squad waiting times for available work are encountered. However,

this can be overcome by manipulating the schedule with some constraints, or dummy activities representing time buffers that make a squad start later to have no waiting time. Naturally this may push the completion date of the project to a later date. The planner will then weigh the benefits of continuous uninterrupted work for the squads against the savings of an early completion. In most practical cases the latter outweighs.

When monitoring the progress of a project by the valuation curve, projected value calculations based on the traditional schedule of completions (e.g. Table 5.1) produced by the LOB would reduce the overall value by the value of the activities in progress (uncompleted). This is so, because the figures of the schedule of completions do not account for activities in progress and not completed. CPM/LOB corrects this because it is based on CPM and not limited to completions, therefore it accounts properly for the values of activities in progress.

6.12 Feasibility of CPM/LOB

CPM/LOB is based on resource-driven rates of completions that can be promptly revised and can produce enhanced LOB information incorporating float times by utilizing the resource management capacity of the CPM software. It eliminates the troubles associated with the change of sequence of operations with a minimal input and indicates their impact as a reality on the completion date. While respecting the branching logic relationships of typical unit networks, CPM/LOB maintains a practical work continuity for the squads by using priority codes for leveling.

In contrast with the many published methods about planning repetitive construction projects, it was demonstrated that CPM/LOB can be applied conveniently not only to develop the initial (or baseline) schedule but to update and accelerate that schedule subsequently. Varying rates of completions for a typical activity is a further sophistication of CPM/LOB that can be undertaken by changing the availability of squads across the duration of execution of that typical activity.

CPM/LOB does not call for training on additional software which the operation personnel are not expected to welcome. And since LOB is now CPM based, time impact analyses can be performed as well as resource-driven impacts on a project in a faster and more accurate fashion. Impacts of delays, undermanning and unbalanced quantities of squads or resources can be directly

and promptly assessed on the project completion date. The user enjoys a considerable advantage in assessing these impacts, which should help him prove delays and make a more sensible utilization of float.

CPM/LOB users have access to the many features available in contemporary software for project planning: multiple calendars, resource aggregation, constraints, summary of activities and graphics and reports. Moreover, a repetitive project network can be as big as a planning software package and a computer can handle and still be manageable without having to reduce the number of activities in fear of the problems of out-of-sequence progress between the typical units. However, out-of-logic progress, which is progress that contradicts the logical relationships between activities within a typical subnetwork will be more distinguishable. No detail will be lost to the detriment of site personnel, yet all parties involved will still be able to judge the balance of the progress through the useful LOB chart which is now called CPM/LOB chart. Typical activities in delay along different branches of the typical unit network can be identified from the CPM/LOB chart as bottlenecks, while the CPM traditional output will indicate the delay of the project completion accurately.

Since the method harnesses the powerful features of contemporary CPM software it is expected that LOB will benefit from the future development of the CPM.

As will be demonstrated in chapter 9, CPM/LOB was successfully applied by the author on real life projects.

CHAPTER 7

COMMON ACTIVITIES IN LOB AND OTHER ISSUES

7.1 Introduction

Most of the repetitive construction projects in real life are, by definition, large and complex. Their planning and scheduling need particular expertise. CPM/LOB has dealt with simplifying and overcoming the problems of work sequence changes and continuity. The flexibility of CPM/LOB puts the process of planning and scheduling repetitive projects in a clear perspective which facilitates additional enhancements. This chapter deals with the definitions and solutions of some essential and practical issues which evolved during the day-to-day management of a large housing project. As of this writing, some of these issues have not been mentioned or identified in the listed literature surveyed by the author.

7.2 The Effect of Common Activities

A common activity is one shared by many repetitive units as a result of the method of construction. Technological as well as economical demands may give birth to these common activities. A frequent example is backfilling the foundations of a cluster of attached houses. On a cluster of attached houses the foundations of each house may be independent but their backfilling has to be done for the cluster as a whole and can not be broken down into individual and independent backfillings for each house. Consequently, there could be multiple squads working on the foundations of a cluster of attached houses but only one squad working on the backfilling of the whole cluster after all the foundations of the individual houses have been completed.

Fig 7.1 shows an example of ten units, each has a typical network of four activities. Typical activity C has float in the typical unit network, however, it is a common activity in the overall network of the ten units. Units one to three share one common activity, C1-3. Units four to eight and nine and ten share common activities C4-8 and C9&10 respectively. It is noted that the type of work of activity C on the first, second and third units can not start until after the completion of activity A on the third unit. This is because typical activity C for units one, two and three are combined in one common activity: C1-3 which succeeds activities A1, A2 and A3. A delay in activity C may impact its successor activity F after consuming the float. In Fig. 7.1

Figure 7.1 - Effect of Common Activities in Repetitive Projects.

the two solid flow lines connecting activities F1 and F10 represent the starts and completions of this activity when no common activity effect exists. However, when activity C should be worked on in clusters or groups, its impact has to be faced as a reality. Based on the rate of completions shown in the Fig. 7.1, it is clear that the largest cluster of common activity C has the biggest possible impact on activity F, the only successor. This impact is a delay solely attributed to the effect of a common activity. In this case, the impact of the common activity first affected activity F4. This delay of common activity C is offset by the amount of float available for typical activity C in the typical network.

The continuity of typical activity B is unaffected, it can run continuously. However, the flow of typical activity F shall be interrupted on unit four. Alternatively, the start of typical activity F on the first unit has to commence at a latter time to maintain its continuity throughout the project. The two dashed flow lines on the right represent starts and completions of impacted activity F. In either case, continuous or interrupted flow of activity F, the whole project completion will be delayed by a duration equal to the critical delay induced by common activity C. It should be noted that typical activity B will have float equal to the delay in the start of its successor, activity F. Typical activity B may therefore follow a lower rate of completions due to the float generated by the effect of the common activity.

In most practical cases the project completion date is imposed. Therefore, the rate of completions of activity F in this case, and all the impacted activities by the common activity effect in general, have to be increased to make up the delay and finish the project by the imposed finish date. The delay can be calculated as

$$D = \frac{\text{biggest number of units of a common activity} - \text{one}}{\text{rate of completions of project}} \quad (7.1)$$

in which D is the delay due to the common activity.

If a common activity has float, then the critical delay D_{cn} can be calculated as

$$D_{cn} = D - TF \quad (7.2)$$

where TF is the total float of the typical activity in the unit network before becoming a common activity, and,

$$D_{cn} \geq \text{zero} \quad (7.3)$$

Therefore, from equations (7.1) and (7.2)

$$D_{ct} = \frac{\text{biggest number of units of a common activity} - \text{one}}{\text{rate of completions of project}} - TF \quad (7.4)$$

Consequently R_{ic} , the rate of completions of the impacted activities, in this case activity F, to finish the project on the imposed completion date, is

$$R_{ic} = \frac{10 - 4}{T_{aa}'} \quad (7.5)$$

where

$$T_{aa}' = \text{project duration} - \frac{4 - 1}{\text{rate of completion}} - A - D - C - F \quad (7.6)$$

This aforementioned approach to the effect of common activities adopts a solution where the delay of the common activity is calculated from an initially determined rate of project completions before the effect of the common activity. Then, only the rates of the affected activities would be increased to make up the delay leaving the completion rates of the other activities unchanged.

Conceivably, a more practical approach would take the effect of the common activity into consideration as a base and starting point in the calculation of the rate of completions of the project. This can be accomplished by solving equation (7.4) and the following equation simultaneously

$$R_{ip} = \frac{\text{total number of units} - \text{one}}{T_{ap} - D_{ct} \text{ of common activity}} \quad (7.7)$$

where R_{ip} is the rate of completions of the impacted project. D_{ct} is found in terms of the rate of completions from equation (7.4) then substituted in equation (7.7) to find the impacted rate of completions of the project.

7.2.1 Example 7.1, Effect of a Common Activity

Consider the first unit network of Fig. 7.2 where there are 10 units to be completed in 28 days. The following situations shall be examined:

1. Calculating the schedule where no common activities exist.

Figure 7.2 - Example 7.1, Situation 1, LOB Diagram with no Common Activities.

2. Combining typical activity C in 3 common activities: C1-3, C4-8 and C9-10 and accelerating only the affected activities.
3. Calculating the schedule based on the effect of common activities to start with.

Situation 1, example 7.1

$$T_{ap} = 28 - 10 = 18 \text{ days}$$

Fig. 7.2 shows the flow of the typical activities and a completion on day 28. The quantities of squads are calculated in table 7.1.

Typical activity	Resource duration D	Total float TF	Available time for completions $T_{sa} = \{T_{ap} + TF\}$	Minimum rate of completions $R_{sa} = \{(10-1) \div T_{sa}\}$	Minimum quantity of squads $S_{sa} = \{D \times R_{sa}\}$	Rounded S_{sa}
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A	2	0	18	0.50	1.00	1
B	5	0	18	0.50	2.50	3
C	3	2	20	0.45	1.35	2
F	3	0	18	0.50	1.50	2

Table 7.1 - Example 7.1, Situation 1, Calculation of the Quantity of Squads.

S_{sa} is entered into the CPM software then time scheduling and resource leveling is performed. The result is obtained in a bar chart from the CPM software which indicates completion on day 28. Fig. 7.3 shows this bar chart.

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Figure 7.3 - Example 7.1, Situation 1, Bar Chart before Common Activity Effect.

Situation 2, example 7.1

In formulating common activities from the network of situation 1, the new common activity C1-3 will take all the predecessors and successors of the deleted activities C01, C02 and C03. The same thing happens with C4-8 and C9-10 respectively. Fig. 7.4 schematically shows the arrangement of the activities of situation 2 after formulating the common activities.

The critical delay can be calculated using equation (7.4):

$$\{(5 - 1) \div 0.5\} - 2 = 6 \text{ days}$$

Fig. 7.5 shows the CPM software output. It is noted that the CPM output indicates a completion on day 31, which means a delay of only 3 days instead of the 6 days shown in Fig. 7.4. The reasons for this gain are: activities follow a step line flow in the CPM according to the availability of the squads; and the rounding up of the quantity of squads. The step flow lines are closer to reality than the straight flow lines of the LOB diagram of Fig. 7.4.

The following step is accelerating affected activity F while maintaining its continuity. Fig. 7.6 shows the acceleration of typical activity F on a LOB diagram.

To accelerate typical activity F in the CPM software an increase in its resource availability of squads must be calculated as follows:

from equation (7.6)

$$T_{aa}' = 28 - \{(4 - 1) \div 0.5\} - 2 - 8 - 3 - 3$$

$$T_{aa}' = 6$$

and from equation (7.5)

$$R_{ic} = (10 - 4) \div 6$$

$$R_{ic} = 1$$

therefore, from equation (6.2)

Figure 7.4 - Example 7.1, Situation 2, LOB Diagram Showing Effect of Common Activity.

$$S_{ma} = R_{ic} \times \text{duration of resource on activity}$$

$$S_{ma} = 1 \times 3$$

$$S_{ma} = 3$$

The availability of the squads for activity F in the CPM software is therefore increased from 2 to 3, then resource leveling is performed to get the results in Fig. 7.7. It is noted that the rate of typical activity F in Fig. 7.7 is higher than those of the other activities to make up the delay. Typical activity F was also prevented from starting before day 17 to maintain a practical continuity.

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Figure 7.5 - Example 7.1, Situation 2, Bar Chart Showing Effect of Common Activity.

Figure 7.6 - Example 7.1, Situation 2, LOB Diagram Showing Activity F Accelerated.

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Figure 7.7 - Example 7.1, Situation 2, Bar Chart Showing Typical Activity F Accelerated.

Situation 3, example 7.1

Through applying equation (7.4)

$$D_{\text{crit}} = \{(5 - 1) \div R_{\text{ip}}\} - 2$$

and from applying equation (7.7)

$$R_{\text{ip}} = (10 - 1) \div (18 - D_{\text{crit}})$$

By solving these two equations we get

$$R_{\text{ip}} = 0.65 \text{ units/day and,}$$

$$D_{\text{crit}} = 4.15 \text{ days}$$

Fig. 7.8 shows situation 3 having all the project activities proceeding with one rate of completions (except for the common activities). Notice that because of the higher rate of completions, D_{crit} is reduced from 6 to 4.15 days, and that the rates of completions are insensitive to the sequence of progress on the common activities. In effect, this approach of taking account of the common activity delay along with the rate of project completions is like assuming that the biggest group of common activities is started on first.

Typical activity	Resource duration D	Total float TF	Available time for completions $T_{\text{sa}} = \{T_{\text{sp}} + \text{TF}\}$	Minimum rate of completions $R_{\text{sa}} = \{(10-1) \div T_{\text{sa}}\}$	Minimum quantity of squads $S_{\text{sa}} = \{D \times R_{\text{sa}}\}$	Rounded S_{sa}
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A	2	0	13.85	0.65	1.30	2
B	5	4.15	18.00	0.50	2.50	3
F	3	0	13.85	0.65	1.95	2

Table 7.2 - Example 7.1, Situation 3, Calculation of the Quantity of Squads.

Figure 7.8 - Example 7.1, Situation 3, LOB Diagram Considering Common Activity in Rate of Project Completions.

Table 7.2 shows the calculation of the quantity of squads that will be entered into the CPM software as resource availability.

It is noted that the critical delay generated float for typical activity B which may proceed on a lower rate of completions without affecting the project completion.

Fig. 7.9 is the product of the CPM software after resource leveling the quantity of squads calculated in Table 7.2. Again an earlier completion by 3 days was realized on day 25 due to the rounding up of the quantity of squads and the step flow line of completions as opposed to the theoretical straight flow lines of Fig. 7.8.

The previous description and example illustrated how common activities impact the schedule of repetitive projects. By and large, it is therefore understood that if two repetitive projects have everything equal but the existence of common activities, the project with common activities is expected to require a higher rate of project completions thus more squads. The same notion is valid if both projects have common activities but the biggest cluster of common activities in one of them is smaller than the biggest cluster of common activities in the other one. The project having the largest cluster of common activities will have the bigger delay from the effect of common activities.

A favored situation, has been grouping some activities for execution in one pass in anticipation of cost savings. This creates somewhat artificial common activities that may affect the whole project time progress. The author recommends a what-if analysis to compare the cost outcome of both situations. As demonstrated, speedy what-if analyses are possible with CPM/LOB.

Site supervision personnel sometimes, for various reasons, create common activity effects when they prefer or insist on grouping the inspection and approval of some otherwise isolated activities. It is therefore the author's opinion that construction parties should be aware of the consequences of common activities to deal with it in a fair way.

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Figure 7.9 - Example 7.1, Situation 3, Bar Chart with a Revised Rate of Project Completions due to Common Activity.

7.3 Balancing Resources within a Particular Activity

Inadequate or unbalanced quantities of resources can lead to delays and unnecessary costs. Balancing the quantity of resources available to the project activities is only one side of the issue. There are activities that require a combination of resources; e.g., a concrete roof. This activity needs a squad of Iron workers, carpenters, electricians, plumbers, and a shutter. Balancing the quantity of resources available within such an activity is vital for its economical execution and continuity in addition to the effect on the whole project schedule.

To illustrate this issue, take a housing project with the repetitive activity "Concrete roof slab" that has a duration of 22 days from start of setting up the shutter to the completion of stripping the shutter. The work duration of the carpenters squad is 11 days and concreting takes a day thereafter. The shutter must be available on the first day and must remain 10 days after concreting, that is a total of 22 days. The issue of calendar and workdays is ignored for clarity of illustration. Assume the total quantity of independent concrete roof slabs is 10 and the minimum rate of completions of the activity is 0.182 roof/day. The minimum required quantities of shutters and carpenter squads are calculated using equation (6.2)

$$S_{ma} \text{ for shutters} = 0.182 \times 22$$

$$S_{ma} \text{ for shutters} = 4 \text{ sets}$$

$$S_{ma} \text{ for carpenters} = 0.182 \times 11$$

$$S_{ma} \text{ for carpenters} = 2 \text{ squads}$$

The activity now has balanced resources and should progress at 0.182 roof per day. Fig. 7.10 shows a bar chart and a stack histogram for the usage of these two resources. The last activity "Roof10" finishes on day 66.

The project manager may want to accelerate the rate of completions of the roof slabs by adding another squad of carpenters. Fig. 7.11 shows the effect of this increase and that no earlier completion is possible when increasing the carpenter squads from two to three. This is because the unchanged four shutter sets limit the rate to 0.182 roof/day. The theoretical rate of the carpenter squads is

Figure 7.10 - Four Shutter Sets and Two Carpenter Squads Performing a Roof Activity at 0.182 Roof/Day.

$$R_{\text{carpenters}} = 3 \div 11$$

$$R_{\text{carpenters}} = 0.273 \text{ roof/day}$$

Obviously the combination of four shutter sets and three carpenter squads is unbalanced because the third squad of carpenters is redundant.

A proportional increase of shutter sets and carpenter squads shall maintain the balance and improve the utilization of these resources. Fig. 7.12 shows the outcome of increasing the shutter sets from four to six thereby matching the potential rate of three carpenter squads

$$R_m \text{ shutters} = 6 \div 22$$

$$R_m \text{ shutters} = 0.273 \text{ roof/day}$$

Figure 7.11 - Roof Activity with Unbalanced Resources, Four Shutter Sets and Three Carpenter Squads.

An earlier completion on day 55 is realized at a rate of 0.273 roof/day by increasing both resources 50%.

A peculiar situation may exist here that deserves stopping at and examining. Keeping three carpenter squads but reducing the shutter sets from six to five still achieves the same early completion, day 55. So is the sixth shutter set redundant? Fig. 7.13 shows that, and shows that although the completion occurred on day 55 with only five shutter sets, the overall rate of completion of 0.273 roof/day was not maintained. Roofs 06 and 09 were late and therefore violated the required minimum rate of completions of 0.273 roof/day. This may have a negative impact on the following activities on units 06 and 09. This impact is definite if the successor activity utilizes one resource thereby following a most vulnerable straight flow line as opposed to a step flow line of an activity performed by more than one squad.

Figure 7.12 - Balanced Six Shutter Sets and Three Carpenter Squads at a Higher Rate of 0.273 Roof/Day.

7.4 Identifying and Quantifying Out-of-Logic Progress

The actual progress of activities in CPM often contradicts the predecessor/successor relationships between these activities due to either imperfections in the original plan or subsequently preferred alternatives to circumvent real life complications. Logcher (1989) mentioned that in practice, work was invariably done out-of-sequence and that determining new logic with out-of-sequence progress is a difficult issue.

Out-of-logic progress, although a major potential source of problems in construction, did not attract professionals to confront it in a formalized approach because of its ostensible complexity. Baram (1994), recommended that this issue be taken very seriously in the context of construction delays and disputes. Historically, identification has been accomplished by visual comparison with varying qualities of results.

Figure 7.13 - Unbalanced Resources Violating the Minimum Rate Despite Completing on Day 55.

Since the relationships between the CPM activities represent an agreement between the parties involved on the method and logic of the work to be carried out, their violations need identification and quantification in a reasonably fast and easy way. One of the known related works to this issue is offered by some CPM computer packages where only limited exposure to the out-of-logic progress is enabled.

This section presents a simple method for identifying and quantifying out-of-logic progress. The method centers around comparing the as-built dates of the activities with the original predecessor and successor relationships for compliance. The data is generated from the CPM software then taken into a spreadsheet for the eventual comparison and tabular presentation of results. The details of the method can be best explained by the following example.

7.4.1 Example 7.2, Out-of-Logic Progress

The example chosen to demonstrate the method is on constructing a typical wooden house with some external brick walls (see Fig. 7.14). Precedence Diagram was chosen, to show more than the traditional finish to start (FS) relationships the Arrow Diagram would have limited this example to. A seven workday week is assumed for simplicity and clarity of calculations.

It is assumed that the owner of the house has prepared this initial schedule after consultation with all the contractors. The initial schedule is approved and reflects the intention of each party on how and when to do his work in view of the work requirements of the others. For example, the drywall contractor made it clear from the beginning that he needs to deliver and stack the interior drywall inside the building using mechanized equipment before the external walls are closed by the sheeting contractor of activity K. Otherwise he would be forced to unbundle the drywall and dismantle some of the internal walls in order to place the drywall in the appropriate locations on a piece-by-piece basis. Clearly this would take more time and incur more costs. According to this understanding the relationship between activity D DELIVERY OF DRYWALL and activity K EXTERNAL SHEETING AND COMPLETE WALLS is finish to finish (FF) with 3 days lag.

Due to the high possibility of rain damaging the insulation, the owner agreed with the insulation contractor that he would only start his insulation works after the waterproofing of the roof is completed, which is determined to be after seven days from starting the work on the roof, activity N. Hence, in the initial schedule activity N precedes activity G by a start to start (SS) relationship with a seven day lag period. This is like saying that waterproofing will take seven days and shingles will take three days making the total duration of activity N ten days.

The same concept, avoiding rain damage, was applied when activity H DRYWALL, was planned to start after the completion of activity L WINDOWS & EXTERNAL DOORS. In other words the relationship between them is finish to start (FS).

Activity O SIDEWALKS, was initially planned to start after the completion of the brick walls, activity M, because the sidewalks surround the building and abut and cover the lower portion of the brick walls.

Figure 7.14 - Example 7.2, Logic Diagram and Initial Schedule of a House.

The owner, painting contractor and flooring contractor all agreed that flooring work was to start after the completion of the painting in order not to impede the movement of the painters and to protect the high quality flooring from the paint. The relationship between activity I PAINTING, and J FLOORING is finish to start (FS) with zero lag in line with the agreement. All other relationships in the initial plan are straightforward.

Construction started on March 2, 1990 and completed on May 31, 1990. Fig. 7.15 is an as-built bar chart of the house project that can be used along with the initial logic diagram of Fig. 7.14 to visually compare the actual progress of each activity to the actual progress of its predecessor in order to identify out-of-logic progress. Certainly, if this comparison is not difficult on this example it will be difficult on a large and troubled project. Alternatively the following method can be applied:

ACTIVITY				SUCCESSOR					DAYS OUT OF LOGIC
ID	DESCRIPTION	ACTUAL START	ACTUAL FINISH	ID	DESCRIPTION	ACTUAL START	ACTUAL FINISH	LAG REL	
A	FOUNDATIONS	2-Mar	8-Mar	B	SLAB ON GRADE	7-Mar	12-Mar	0 FS	0
B	SLAB ON GRADE	7-Mar	12-Mar	C	EXTERNAL & INTERNAL WALLS	14-Mar	17-Mar	0 FS	-1
C	EXTERNAL & INTERNAL WALLS	14-Mar	17-Mar	D	DELIVERY OF DRYWALL	22-Mar	22-Mar	0 FS	-4
C	EXTERNAL & INTERNAL WALLS	14-Mar	17-Mar	E	ROOF STRUCTURE	19-Mar	28-Mar	0 FS	-1
C	EXTERNAL & INTERNAL WALLS	14-Mar	17-Mar	K	EXT. SHEETING & COMPLETE WALLS	18-Mar	21-Mar	0 FS	0
E	ROOF STRUCTURE	19-Mar	26-Mar	F	MEP ROUGH IN	27-Mar	18-Apr	0 FS	0
E	ROOF STRUCTURE	19-Mar	26-Mar	N	WATERPROOFING & SHINGLES	12-Apr	19-Apr	0 FS	-16
K	EXT. SHEETING & COMPLETE WALLS	18-Mar	21-Mar	G	INSULATION	14-Apr	18-Apr	0 FS	-23
K	EXT. SHEETING & COMPLETE WALLS	18-Mar	21-Mar	L	WINDOWS & EXT. DOORS	22-Mar	25-Mar	0 FS	0
D	DELIVERY OF DRYWALL	22-Mar	22-Mar	K	EXT. SHEETING & COMPLETE WALLS	18-Mar	21-Mar	3 FF	4
L	WINDOWS & EXT. DOORS	22-Mar	25-Mar	H	DRYWALL	19-Apr	28-Apr	0 FS	-24
L	WINDOWS & EXT. DOORS	22-Mar	25-Mar	M	BRICK WALLS	1-Apr	14-Apr	0 FS	-6
M	BRICK WALLS	1-Apr	14-Apr	O	SIDEWALKS	10-Apr	15-Apr	0 FS	5
F	MEP ROUGH IN	27-Mar	18-Apr	G	INSULATION	14-Apr	18-Apr	0 FS	3
N	WATERPROOFING & SHINGLES	12-Apr	19-Apr	Q	INSULATION	14-Apr	18-Apr	7 SS	5
O	SIDEWALKS	10-Apr	15-Apr	I	PAINTING	29-Apr	12-May	0 FS	-13
O	SIDEWALKS	10-Apr	15-Apr	P	LANDSCAPING	18-Apr	24-Apr	0 FS	0
P	LANDSCAPING	18-Apr	24-Apr	R	PUNCH LIST	26-May	31-May	0 FS	-31
G	INSULATION	14-Apr	18-Apr	H	DRYWALL	19-Apr	28-Apr	0 FS	0
H	DRYWALL	19-Apr	28-Apr	I	PAINTING	29-Apr	12-May	0 FS	0
I	PAINTING	29-Apr	12-May	J	FLOORING	8-May	15-May	0 FS	5
I	PAINTING	29-Apr	12-May	Q	FINISH MEP	13-May	25-May	0 FS	0
Q	FINISH MEP	13-May	25-May	R	PUNCH LIST	26-May	31-May	0 FS	0
J	FLOORING	8-May	15-May	R	PUNCH LIST	26-May	31-May	0 FS	-10

Table 7.3 - Example 7.2, Out-of-Logic Analysis.

Table 7.3 lists all the network activities with their actual start and finish dates. Also in this table are the successors of each activity and the type of relationship and lag between them according to the initial schedule, so that if an activity has more than one successor it will be listed on more than one line, each line describing it with one successor and the relationship between them. All the aforementioned data can be easily produced by the Export facility of the computer program used, Primavera Project Planner® to a spreadsheet where further calculations can be

Figure 7.15 - Example 7.2, As-Built Bar Chart.

applied conveniently.

The right most column in Table 7.3 shows the days out-of-logic. These were calculated by a formula containing "IF" statements copied to all the cells of the column in the spreadsheet.

Figure 7.16 - Out-of-Logic Calculation.

Fig. 7.16 is a flow chart showing how these "IF" statements were arranged. They basically identify the type of the relationship then compare the relevant actual start/finish dates for compliance.

The calculation is simple and straightforward. However, when a date is given as a start date it means the beginning of that particular day, and when a date is given as a finish date it means the end of that day. So for activity D DELIVERY OF DRYWALL, March 22, means the beginning of the day under the actual start column and the end of the day under the actual finish column. For the same reason a correction of one day was necessary to make the calculation for the "FS" relationships consistent since start and finish dates are not comparable.

In Table 7.3, out-of-logic progress happened where positive values were the result of the calculation. The corresponding rows were shaded for more clarity; however, for a large project a sort by descending order of out-of-logic days is recommended. This type of sort can be easily done in a spreadsheet. The scheduler can easily zero in on the identified violations towards exploring the consequences and rectifying the situation.

Clearly, identifying and quantifying out-of-logic progress with this computerized method is fast, simple and less vulnerable to human error than a traditional visual comparison. The method can be applied even after agreed upon changes to the logic take place. This can be performed by comparing the current schedule update with the previous schedule update which incorporated the most recent and agreed upon logic changes.

On a repetitive project in general and particularly on housing projects out-of-logic progress points to serious problems. However, out-of-sequence progress, which does not violate the logic but contradicts the priorities of work order is frequently a strategy matter. CPM/LOB methodology and the method described herein can be employed together to effectively differentiate between the two types of progress and their consequences.

7.5 The Problem of too many Uncompleted Repetitive Activities

When a LOB chart shows that a certain quantity of an activity should be completed by a particular cut-off date it also means that there must be an additional quantity of the same activity that is underway at varying stages. This quantity of activities underway is necessary for keeping the progress on schedule, otherwise there will not be enough completions by the next cut-off date. The normal or planned quantity of activities underway is obtained from the difference between the line of balance of completions and the line of balance of starts at a given point in time. The quantity of too many uncompleted activities discussed in this section is above and beyond that

necessary for the normal progress of work which is calculated from the difference between the quantities of line of balance of completions and the line of balance of starts.

Turban (1968) was the only person according to this author's knowledge that touched on this problem, he stated:

"Measurement of progress is especially difficult in development projects and in partly completed operations. Pure guesses are often the only approach."

A frequently encountered situation in repetitive projects is having too many repetitive activities started-on but not completed for various reasons. An example that was experienced by this author was with a subcontractor who had one unit rate price in his contract for all the concrete foundation works of many houses. Foundation works were bases and column necks, and were represented by one CPM activity called "Foundations". Foreseeing financial problems and possible termination of his contract, this subcontractor over progressed on the bases that had the bulk quantities of concrete, and obviously the money, and ignored the column necks. He was improving his cash flow however, the whole project was suffering. Later, on the same project and while repetitive activity "Brick cladding of external walls" was progressing, a crises happened on a previously completed and major project for the same owner: bricks of cladding walls which were resting on ground beams and going up two stories (7 m) were collapsing due to inadequate anchorage. The owner stopped the work on activity "Bricks cladding of external walls" beyond a three mete level pending correction of the design, which was to introduce additional anchorage between the cladding bricks and the concrete block unit walls being clad at that level and above. The main contractor expecting a speedy solution by the owner/designer did not stop his brick layers but simply moved them on to start on new houses after partially completing the cladding of each house (after reaching the 3 m level). Due to the owner inaction, two months later there was a severe problem with scaffold sets, brick layer squads and the succeeding activities.

The planner who periodically depicts the progress of the project on a LOB chart to detect bottle necks and imbalances, is challenged. How is he going to count and present these too many partially completed activities? should he ignore them, work out an equivalent quantity by adding up partially completed activities on top of each other or what?

Not counting them is certainly an understatement of the actual progress. On the other hand, adding partially completed activities towards an equivalent quantity of completed activities

is definitely not correct, it is a misrepresentation. The answer is going back to these repetitive activities in the CPM and breaking them down into more activities. So for the above examples, activity "Foundations" should be split into "Bases" and "Column necks". Likewise "Brick cladding of external walls" should be two activities one to the 3 m level and the other above the 3 m level. A revised line of balance is then calculated and therefore a more representative LOB chart can be produced. Consequently, impacts would be more clear and corrective measures, like acceleration, would be more identifiable for implementation by the project management.

CHAPTER 8

MANAGING MULTIPLE CONTRACTS

8.1 Introduction

Huge housing projects have undeniable political importance because of their impacts on people. Sometimes these projects are started by public owners to stimulate the economy. It follows, therefore, that these projects become high-profile and draw considerable public attention. Owners and construction managers face a big responsibility when monitoring housing projects, especially when there are many simultaneous main contracts. The need to generate comparative information about the actual progress of different contracts becomes paramount. Main contractors in turn become under unusual attention, and have to monitor and compare their subcontractors' progress diligently and creatively to stay informed and in control.

This chapter focuses on comparing the progress regularity of multiple housing contracts and developing a new measure of it. The objective is to reduce the opportunity for subjective assessments of various but similar contract progress. This chapter also covers strategic planning issues that enhance early handovers through improved geographical allocation of units and merger.

8.2 Comparing the Progress Status of Multiple Contractors

Usually owners and construction managers compare the progress of main contractors based on the earned value as a percentage of the contract sum for each main contractor. The calculation is reported periodically in a table or a graph that is titled "Progress Variance". The essence is the difference between the actual earned value and the planned earned value expressed in percentage of the contract sum. If the variances are presented in a graph, the trends will become clearer than a table presentation. Fig. 8.1 shows an example of the progress variance graph for three contracts taken from a real life project. The horizontal axis represents time and the vertical axis may represent percentage value, or time units, e.g., days or weeks ahead or behind the baseline schedule. Particularly in multiple repetitive projects, these types of reports do not manifest the comparative regularity of the main contractors' progress. On a contract, progress regularity, is the degree of progress uniformity measured against an established line of balance. Information about regularity is obtained from the traditional LOB chart by comparing

Figure 8.1 - Variance Trend Analysis.

the actual completions with the planned completions, however, it would be more vivid to quantify this regularity. Progress regularity measurement is important because it quantifies the most important aspect of the LOB technique: the balance of the progress. Comparisons of regularity on a multiple prime contract project are usually done in a narrative format not in a numerical format that is expected to enhance the objectivity of the evaluation.

8.3 Measuring the Progress Regularity of a Repetitive Project

LOB charts show the balance of the project actual progress, and visually portrays the deviation of each activity completions from its planned completions. However, when these repetitive activities have different rates of completions, e.g., due to float, the mere deviation which is based on completions, does not reflect that. This is important, because showing that a repetitive activity is behind by say 10 unit completions should only be an intermediate quantification towards determining that it is late by that many days or weeks. For example, due

Figure 8.2 - Equal Completion Variances but Different Time Progress.

to varying completion rates, two activities that are behind by the same magnitude of unit completions should not be equally behind the time schedule (see Fig. 8.2). Conversely, if two activities with different completion rates are each behind schedule by say 15 days, they will not have the same deviation from the line of balance on the LOB chart. As far as time progress is concerned, the variance on the LOB chart is not a comparable number for activities with different rates of completion.

Based on the above, it makes more sense to convert the completions variance of an activity on the LOB chart, to time units variance based on its particular rate of completion before comparing it to other activities.

Fig. 8.3, shows an irregular progress of a project. Activities A and C completions are within the planned early and late completions, B and E are behind late completions and D is ahead of early completions. For the purpose of measuring the degree of regularity, the progress of activities A and C are considered regular because they are within the bounds of early and late completions, therefore their completions variance is considered zero. However, for the late activities the variance will be measured against the late completions LOB. Conversely, for the early activity, the variance will be measured against the early completions LOB. The completion variances measured above can be converted to time variances by dividing them by the relevant

Figure 8.3 - CPM/LOB Chart Showing Irregular Progress.

rates of activity completions. Then the time variances of the activities can be looked at as a set of statistical data or a population for which the standard deviation is a measure of dispersion hence progress regularity. The more regular the progress the lower the variation and the standard deviation.

Activity	A	B	C	D	E	Regularity σ_v
Completions variance	0	-1	0	+1	-1	
Rate of completion	0.2	0.1	0.2	0.3	0.4	
Time variance (in calendar days)	0	-10	0	+3.3	-2.5	4.48

Table 8.1 - Calculation of Regularity.

Table 8.1, presents the calculation of the regularity of the progress in Fig. 8.3 assuming arbitrary rates of completion and a single work calendar.

The time variance should be measured in calendar days, otherwise there maybe an inconsistency. When different activities follow different calendars it is more indicative and comparable to convert progress to a common scale, to calendar days.

It is to be noted that the regularity measure is not an indication of how much behind or ahead the actual progress of a project is. A project that has all of its activities ahead of schedule by say 10 days is as regular in its progress as another project with all its activities late by say 25 days. The reason is, both projects have all their activities uniformly ahead or behind the baseline schedule. Of course in these two projects, the standard deviation of the time variances of the activities is zero, and so is the regularity measure. A zero regularity denotes the highest degree of progress uniformity.

There are challenges to the above approach: a typical activity may have more than one planned rate of completion which complicates the calculation, also deriving its time variance from the actual completions is subject to underestimation or overestimation of the time progress due to many factors. Examples of these factors include: too many uncompleted activities, too few activities in progress, nonwork periods, and delays. Due to those, it is also possible to have the actual completions of a typical activity between the levels of early and late lines of balance on the CPM/LOB chart while its projected completion date is behind the baseline. Although the CPM/LOB chart offers a snapshot of the project balance status, it is not strictly linked to time progress quantifications. However, since a CPM/LOB schedule can readily show how much a typical activity is behind or ahead of its baseline schedule in time units, that information can be alternatively used to measure the regularity. The time variance, TV, of a typical activity can be obtained from the projected early finish date of the last unit activity in order in CPM/LOB compared to its baseline early finish date if it is ahead or late finish date if it is behind

$$TV_{ahead} = EF_{baseline} - EF_{(actual / current \ projected)} \quad (8.1)$$

$$TV_{behind} = LF_{baseline} - EF_{(actual / current \ projected)} \quad (8.2)$$

If the projected early finish falls between the early and late finishes of the baseline, the TV is zero

$$TV = Zero \text{ when } EF_{baseline} \leq EF_{actual / current} \leq LF_{baseline} \quad (8.3)$$

Whereas the standard deviation of the time variances is a numeral measure of regularity, a regularity chart that presents the time variances in a vertical bar chart will show the visual regularity of the project status, and unlike the CPM/LOB chart, will consider the effects of uncompleted activities and delays towards the latter stages of the project. The following example will illustrate that.

8.3.1 Example 8.1, Progress Regularity

This example will illustrate the measurement of the progress regularity of example 6.2 at the end of day 10 of the project. The early and late finish dates are read off the CPM software outputs in Fig. 6.10 (for actual and projected) and Fig. 6.6 (for baseline—example 6.1). Table 8.2 shows the calculations of the TV based on equations (8.1) to (8.3).

Typical activity	Baseline (example 6.1 Fig. 6.6)		Current projected EF or AF (example 6.2 Fig. 6.10)	Time variance TV
	EF	LF		
A	12	14	10	2
B	17	19	15	2
C	28	29	30	-1
D	35	35	37	-2
E	38	38	40	-2
F	28	28	30	-2
G	29	29	31	-2
H	30	35	32	0
Regularity, σ_v				1.65

Table 8.2 - Example 8.1, Calculations of Time Variance for Progress Regularity.

Note that for typical activity H, the time variance is zero because the projected finish will be between its early and late finishes in the baseline schedule. To illustrate how the regularity would have differed had activities A and B been behind schedule, assume that their time variances

had been -2 instead of 2. Obviously the project status would have been in a more uniform delay and the regularity (standard deviation) would have been 0.70 which points to a higher uniformity than the previous value of 1.65.

Figure 8.4 - Example 8.1, Regularity Charts.

Fig. 8.4 shows the regularity charts for both cases. This chart portrays the time variances of the typical activities thereby gives an indication of the uniformity as well as the time progress status. So, by merely knowing that typical activity E is the last typical activity, the chart reader is informed that the overall project progress is 2 days behind schedule. Since the CPM/LOB chart does not show the status of the time progress of the typical activities and sometimes does not agree with it, the regularity chart is recommended to complement the CPM/LOB chart in progress analysis.

The use of a statistical method to measure the regularity of progress not only compares multiple contracts on a common scale but also facilitates early identification and resolution of imbalance problems.

8.4 Enhancing Stage Handovers Through Strategic Planning

On most of housing projects, owners and sometimes contractors prefer to complete and hand over houses in a particular sequence. This sequence is decided at a high level of the strategic planning process and is usually a function of the arrangement of the new houses relative to the existing streets and other amenities of the neighborhood. For example, common sense encourages a planner to choose to complete and hand over new houses that are adjacent to an existing community before those far away from it. By doing so, occupants of newly completed houses shall not have to pass through the areas of uncompleted houses to get to their homes.

The same issue is faced when allocating units to multiple prime contractors on a large housing project. How to allocate in such a way that maximizes the number of units in early stage handovers and therefore makes the handover process less vulnerable to future troubles in progress, given that occupancy should not hinder accessibility.

Fig. 8.5 shows a project jobsite bound by an existing road and community. The feasible direction of progress would be to start from the west end and proceed east bound. This direction of progress always maintains a number of houses occupiable by the owners at any point in time further down the construction progress more than any other direction of progress.

If there are multiple prime contractors on the project, the objective should be securing a unified rate of physical displacement from the western side of the jobsite towards the eastern side. Of course this means considering the rates of completions of these prime contractors when allocating the housing units to them. The objective of this strategy is to avoid a pattern of completions that is unwieldy or awkward to hand over to the owners. Fig 8.6 delineates such an unfortunate possibility where the project participants did not plan ahead for an early partial occupancy. As shown, only those houses completed by contractor C so far could be realistically considered for handover to the new owners. Allocating houses to contractors and directing progress similar to that shown in Fig. 8.6 for reasons such as, reduction of interference between the workers or preventing thefts of tools are not unheard of in real life construction projects.

Figure 8.5 - Progress Enhancing Stage Handovers.

8.4.1 Example 8.2, Enhancing Stage Handovers

The objective in this example is to improve, in hindsight, a decision on allocating housing units to multiple subcontractors on a completed project. Fig. 8.7 shows a plan of a real life project for the construction of 260 houses in Kuwait. The west side of the site was bound by existing streets and utilities. Consequently the decision was made to start the progress from this west side and go east facilitating stage handovers to the owner in the same direction as houses are completed. The main contractor for these 260 houses had three building subcontractors and another subcontractor for the roads and utilities serving these houses. Due to delays in contracting with the smallest two of the building subcontractors, the main contractor eventually allocated the houses to the three building subcontractors as shown in Fig. 8.7: 185 houses to building subcontractor L, 24 houses to X and 51 houses to O. The notice to proceed dates and completion dates were as follows:

Figure 8.6 - Progress not Enhancing Stage Handovers.

Subcontr.	Number of houses	Start date	Completion date	Duration (days)
L	185	9 Oct 86 (day 1)	23 Jul 88 (day 654)	654
X	24	10 Jan 87 (day 94)	17 Apr 88 (day 557)	464
O	51	1 Apr 87 (day 175)	17 Aug 88 (day 679)	505

Figure 8.7 - Example 8.2, As-Built Allocation of 260 Houses to Three Subcontractors.

Assuming that the construction of the first house of each subcontractor takes 300 days to complete, the rates of completions can be calculated using equation (6.1):

Subcontr	Rate of completion (house per month)	Rate relative to subcontractor X
L	$\{(185-1) \times 30\} \div \{654-300\} = 15.59$	3.7
X	$\{(24-1) \times 30\} \div \{464-300\} = 4.21$	1.0
O	$\{(51-1) \times 30\} \div \{505-300\} = 7.32$	1.74

It is clear that if a single physical displacement rate, starting from the west side of the project is desired to enhance stage handovers to the owner, the rates of the subcontractors will have to be considered. So if the main contractor decides to hand over 100 houses at the first stage, that first stage should have its houses allocated to subcontractors L, X and O in the ratio 3.7:1.0:1.74 respectively. If progress goes as planned, this will guarantee that each subcontractor will complete his houses in the first stage at the same time with the other two, therefore enabling a consistent and complete group of houses for handover to the owner. However, since the start and completion dates of the three subcontractors are not the same the above should not be applied throughout the jobsite. Fig. 8.8 shows a linear program derived from the above information which should put the issue in a clear perspective. For each subcontractor the horizontal thick line of three hundred days for the first house is followed by an inclined delivery line.

Subcontractor L is planned to deliver his first house on day 300 and continue to deliver up to 49 houses alone until before day 394. Therefore the first 49 houses closer to the existing street and utilities should be allocated to subcontractor L. This will be called the first allocation batch.

For the period between days 394 and 475, both subcontractors L and X will be completing and delivering houses. The planned delivery ratio will be 3.7:1 based on the relative

Figure 8.8 - Example 8.2, Linear Program for Three Subcontractors.

rates of the two subcontractors. It follows that the second allocation batch will comprise 12 houses for subcontractor X and 42 houses (91 minus 49) for subcontractor L. These should be allocated to subcontractors L and X as close as possible to the existing street and utilities and alternatively in the ratio 3.7:1.

The third allocation batch shall be shared by the three subcontractors. Forty five houses for subcontractor L (136 minus 91), 12 houses for subcontractor X (24 minus 12) and 21 houses for subcontractor O.

The fourth allocation batch will be allocated between subcontractor L and O since X will have completed all his 24 houses. Forty nine houses go to subcontractor L (185 minus 136) and 23 house to subcontractor O (44 minus 21).

The last allocation batch goes all to subcontractor O who is the last to complete his

Allocation batch	Subcontractor			Batch totals
	L	X	O	
1	49	0	0	49
2	42	12	0	54
3	45	12	21	78
4	49	0	23	72
5	0	0	7	7
Totals	185	24	51	260

Table 8.3 - Example 8.2, Allocation of Houses to Multiple Subcontractors.

remaining 7 houses. Table 8.3 summarizes the order of allocating the houses to the three subcontractors in a fashion that enhances the chances of delivering houses beginning from the west side of the jobsite and towards the east side. It should be noted that any particular stage of handover may comprise any feasible number of houses regardless of the allocation batch sizes.

Fig. 8.9 shows the alternative geographical allocation of the houses to the three subcontractors based on the above method. Obviously the difference between it and the main contractor's choice (see Fig. 8.7) is massive, and so are the expected implications.

It should be mentioned here that there are other factors that may be taken into consideration when allocating the houses, such as, avoiding having two subcontractors share one cluster of houses if possible, and aiming at completing clusters that form a complete loop before others. A loop (sometimes called a court), is a formation of clusters that are serviced by a common internal road . Other allocation alternatives that maintain the same objective of enhancing stage handovers are possible, but none should be close to the as-built allocation of Fig. 8.7. The as-built allocation leads to a scattered formation of completed houses and reduces the number of

Allocation Batches

Figure 8.9 - Example 8.2, Alternative Allocation of Houses Enhancing Stage Handovers.

houses the main contractor may hand over at an early stage in a somewhat confined geographical location. Of course this means unnecessary delays in handing over completed but isolated houses of contractors X and O and to liquidated damages if stipulated in the contract.

Planning the phases of handover is one of the many reasons project managers change the sequence of work on the houses before and during construction. As the work progresses the project participants rapidly lose their opportunities to change the allocations and the sequence. CPM/LOB offers a responsive tool for the what-if analysis on this issue as planners shuffle the different alternatives of stage handovers and thereby the sequence of operation.

8.5 Improved uniformity and Earlier Completion through Merger

Certain events on jobsites may hinder the progress on particular early activities due to various reasons. Examples are: unexpected subsurface conditions, excessive change orders, inclement weather, etc. These may affect only part of a large jobsite and push its progress out of balance. On the other hand, other reasons may affect different activities on other parts of the jobsite, therefore tilting the balance in an opposite fashion to the first part of the jobsite. Examples of those could be excessive change orders on finishing activities, mismanagement of resources, etc.

If the progress of each part of the large project is measured against an independent CPM/LOB chart, it is expected that the two parts will be disparately out of balance. One part late on the somewhat initial activities while the other part ahead on these activities but late on subsequent activities. Both should be behind their time schedules due to the imbalanced statuses.

The posed question is, can these two parts of the project be combined in one part to even out their irregular progress? And if this is possible, will the integrated project gain some time?

The biggest challenge to such an approach, is the contractual relations. These two parts of the project may be assigned to two different contractors or subcontractors, and merging them can be a contractual nightmare. However, if both parts were executed by a single organization, the problem will be reduced to temporary logistical inconveniences.

Example 8.3 will illustrate the technical feasibility of the merger process towards a more balanced status and an earlier completion.

8.5.1 Example 8.3, Merger

The example project comprises twenty units divided equally between two sectors, north and south. Both started together and were planned to finish on the same day. Each sector is a replica of example 6.1 and should be completed by day 38. Therefore the bar chart of example 6.1 in Fig. 6.6 is an applicable baseline to both sectors' progress. The north sector has houses 1 through 10, and the south sector has houses 11 through 20.

At the end of day 19 the two sectors progress were at a contrasting imbalance. While the south sector was ahead on some activities, the north sector was behind on the same activities. Figs. 8.10 to 8.13 provide a picture of the status of both sectors. The projected early finish of the northern sector is day 44, six days behind schedule, while that of the southern sector is day 48, ten days behind schedule. The regularity for the north and south are 3.59 and 5.67 respectively.

The two sectors shall be combined in one schedule adding their available resources to each other and keeping all other variables fixed. Units 1 and 11, has a priority of 1, units 2 and 12 has a priority of 2, and so on for the rest. Fig. 8.14 shows the bar chart of the combined schedule with a projected completion on day 41, which is earlier than both sectors completion days. Fig. 8.15 shows that the regularity of the new merger is 0.78, far better than the previous independent sectors.

It is interesting to note that while the level of actual completions of typical activity G in both sectors were between the early and late levels of the lines of balance, its time variance was negative in the southern sector and positive in the northern sector. The same observation is evident on activity C after merger where the CPM/LOB chart shows it ahead on completions while the table indicates it is 2 days late. There is a similar disparity on activity G. This corroborates the notion in section 8.3 that although the CPM/LOB chart depicts activity completions, it gives a temporary indication of the balance status of the project at a certain point in time with no substantial consideration to what is planned soon after.

Figure 8.10 - Example 8.3, Bar Chart of North Sector.

Typical activity (north sector)	Baseline (example 6.1 Fig. 6.6)		Current projected EF or AF (Fig. 8.10)	Time variance TV
	EF	LF		
A	12	14	10	2
B	17	19	16	1
C	28	29	26	2
D	35	35	41	-6
E	38	38	44	-6
F	28	28	34	-6
G	29	29	35	-6
H	30	35	39	-4
Regularity, σ_v				3.59

Figure 8.11 - Example 8.3, CPM/LOB Chart and Regularity Measure of North Sector at End of Day 19.

Figure 8.12 - Example 8.3, Bar Chart of South Sector.

Figure 8.13 - Example 8.3, CPM/LOB Chart and Regularity Measure of South Sector at End of Day 19.

Sheet 1 of 2

Figure 8.14 - Example 8.3, Bar Chart of Merged Sectors.

Figure 8.14 - Example 8.3, Bar Chart of Merged Sectors (Continued).

Typical activity (merged sectors)	Baseline (example 6.1 Fig. 6.6)		Current projected EF or AF (Fig. 8.14)	Time variance TV
	EF	LF		
A	12	14	16	-2
B	17	19	21	-2
C	28	29	31	-2
D	35	35	37	-2
E	38	38	41	-3
F	28	28	30	-2
G	29	29	31	-2
H	30	35	33	0
Regularity, σ_v				0.78

Figure 8.15 - Example 8.3, CPM/LOB Chart and Regularity Measure of Merged Sectors at End of Day 19.

Figure 8.16 - Example 8.3, Regularity Charts at End of Day 19.

A regularity chart, in addition to the CPM/LOB chart, is suggested and used herein based on the time variance of each typical activity. Fig. 8.16 shows how the regularity chart provides a vivid picture of the progress balance along with a time progress indication. A quick glance reveals the difference between the three statuses of balance by the magnitude of their deviations from the baselines. The visual comparison will be remarkably lucid if the scale of the vertical axis is fixed.

CHAPTER 9

VALIDATION THROUGH CASE STUDIES

9.1 Introduction

This chapter shows the application of CPM/LOB on real life construction projects where this author had worked either for the contractor or the construction manager organization. Three applications are provided: The first two are on a housing construction project in Kuwait, and the third is on part of a prison project in California, USA.

Each case study starts with calculating the baseline schedule before the project begins. Then, a point in time well into the project duration is selected (after considerable actual progress and changes have occurred) to update the schedule by entering the real progress data on the activities and measuring the status. This was called the updated schedule which was based on the same quantities of resources in the baseline schedule. Following that and depending on whether the project is ahead or behind schedule, a third schedule, called the accelerated or decelerated schedule, is prepared by setting a new target completion date and calculating revised quantities of team resources to achieve it. Finally each case study concludes with a list of the particular features of CPM/LOB it was used to validate.

The figures and tables are grouped at the end of each case study in the order they were mentioned in the text.

9.2 Seven Electrical Substations

These were two transformer substations which would supply electric power to a 260 house development. They were part of a 260 house construction contract between the National Housing Authority of Kuwait (NHA) and a general contracting company called Saud & Ebrahim Al Abdulrazzak Trading and Contracting Establishment (Al Abdulrazzak) for whom the author had worked. Al Abdulrazzak subcontracted the construction of these electrical substations to Jassim Al Nisif Contracting Company (Al Nisif). The substations were identical and spread over the site. They were numbered 25, 26, 27, 28, 29, 30, and 31 and the construction of each one was technically independent of the others. Each substation was about 15 by 20 m and 4 m high. Transformers installation and cables laying were not in the scope of the subcontract.

9.2.1 Electrical Substations, the Baseline Schedule

The baseline schedule was prepared by the author to Al Nisif utilizing CPM/LOB on Primavera which, at the time, was not able to level more than six resources in a single run. Fig. 9.1 shows the subcontract calendar, which is a six workday week calendar (weekends on Friday) and includes some religious and national holidays. Construction was to start on December 1, 1987 and complete on August 31, 1988. Fig. 9.2 shows the logic diagram of a typical substation comprising 42 activities. The agreed upon sequence of operation on the substations was: 27, 25, 29, 31, 30, 28, and 26. Fig. 9.3 is a tabular schedule report of a typical substation starting on day one (December 12, 1987) and required to complete no later than the last day (August 31, 1988). The available time for completions for each typical activity, T_{aa} , is calculated in a procedure identical to that used in example 6.3 by simply running the schedule of this typical network and obtaining the total floats which are themselves the available times for completions for each typical activity, T_{aa} . Since total floats are measured by workdays not calendar days, weekends and holidays are accounted for.

Table 9.1 displays the calculations toward finding the minimum resource quantities required to complete seven substations no later than August 31, 1988. Only nineteen typical activities were considered very important and had resources allocated to them. This decision was influenced by Primavera's then limited resource leveling ability as mentioned above. Resources are either: squads or crews, and referred to as CR; or shutters, and referred to as SH. Both are associated with a typical activity number. So CR04, refers to the squad of typical activity 04 LEVELING & SETTING OUT. The minimum quantities of resources, S_{ma} Rounded, in column 8, is entered into the CPM software, Primavera, as resource availability, then time scheduling and resource leveling is performed in line with the above sequence of operation.

Fig. 9.4 is a tabular schedule report of the activities of the seven substations sorted by typical activities then by their early start dates. Under the column titled ACTIVITY ID the first two numbers before the hyphen refer to the substation number while the other two numbers after the hyphen refer to the typical activity number. So 27-04 is typical activity four of substation 27. The numbers under the column titled CODE are the leveling priorities. It is noted that the projected completion date is August 16, 1988 instead of August 31, 1988. This is due to the rounding up of the number of minimum resources to the next higher integer before entering them onto the CPM software.

The analysis of the schedule of Fig. 9.4 indicates that the critical path flows through a series of time-critical sequential activities on the first substation (number 27). It then goes through the resource-critical typical activity 60 SANDLIME BRICKS OF WALLS TO FIXTURES & LINTELS LEVEL on all the substations before making its successors critical to the end and completion of the last substation, number 26. It is obvious that typical activity 60 was the lowest-rate activity and therefore controlled the pace of the project. It was a bottleneck. It pushed its successors and reduced their floats rendering most of them critical because of its comparatively slow rate of progress.

Further examination of Table 9.1 explains why this was the case. Column 9 calculates the rate of each typical activity based on the rounded number of resources as if each typical activity was flowing independently of any predecessor. The lowest rate should point to the typical activity that controls the pace of the project had there been no floats in the typical substation network. But since there was more than one path, and some activities had float in the typical substation network, the rates of the activities having float should be normalized to yield comparable figures and enable identifying the slowest typical activity, hence the first, most resource-critical in the overall project network. Column 10 of Table 9.1 indicates that typical activities 60 and 84 should have been expected to be resource-critical and controlling the pace of the project since they shared the slowest normalized completion rate: 0.100 substation per day. The above LOB calculation puts the analysis in a better perspective: both typical activities 60 and 84 were the slowest and controlled the pace of the project and typical activities 64, 66, 68, 72, and 78 remained tightly bound between 60 and 84 hence critical. Typical activity 76, since trapped between resource-critical activities on the overall project network, had only its two day float from the typical unit network shown on all substations in Fig. 9.4.

To go back and confirm the effect of rounding up the number of minimum resources, S_{ma} , a separate schedule run was performed on the typical substation network like that of Fig. 9.3 but with August 16, 1988 as the finish-no-later-than date. The available times for completion for all the activities, T_{aa} , were 12 days fewer and the S_{ma} for typical activities 60 and 84 was exactly equal to one. S_{ma} for the other activities increased, but after rounding them up they were not different from their original quantities as listed on column 8 of Table 9.1. Hence the resource availability of the overall project schedule was unchanged and August 16, 1988 remained the projected completion date. This proves that when the resource requirement of the dominating (lowest-rate) activity or activities is an integer (in this case, one), the methodology makes the schedule finish exactly on target.

In chapter six it was stated that the continuity of a working squad could be enhanced by delaying its start to avoid interference with slower predecessor activities through using start constraints in the commercially available CPM software. Figs. 9.5 and 9.6 demonstrate how the continuity of typical activity 26 (which is between typical activities 25 and 32) was raised to full continuity through utilizing some of its float by constraining its start to no earlier than January 17, 1988. Neither its predecessor, typical activity 25, nor its successor, typical activity 32 were affected.

9.2.2 Electrical Substations, the Updated Schedule

The status of the project as of February 2, 1988 is shown in Fig. 9.7, it indicates that there was no change of sequence and that the projected completion date is August 3, 1988, 13 calendar days (10 workdays) ahead of the baseline completion date, August 16, 1988. This was obtained by simply entering the percent completes of the activities and running time scheduling and resource leveling using the same resource availabilities of the baseline schedule. It should be noted that the typical activities which did not have resources allocated to them (those not listed on Table 9.1) were not levelled, hence not staggered for proper execution. This reveals the need for allocating team resources for all the typical activities in the baseline schedule to avoid having to address this issue at a subsequent schedule update. Of course this particular situation can be corrected by simply allocating one team resource to each uncompleted activity and running resource leveling.

Fig. 9.8 shows the progress regularity as of February 2, 1988. While all of the typical activities to the left of typical activity 50 are within the early and late completion dates, the others are ahead of the early baseline schedule dates.

Fig. 9.9 isolates the current critical activities for more clarity. It shows that the critical path now flows through the time-critical activities of substation 31; the resource-critical typical activity 60, starting at substation 31 and to the last substation, number 26; typical activities 64, 66, 68, 72, 78, and 84 from substation 31 to 26; and finally through the last time-critical activity of substation 26, activity 26-88.

Typical activity 60 is the first bottleneck and controls the pace of the progress. The regularity chart shows it 12 calendar days ahead of the baseline schedule which coincides with

10 workdays per the schedule and the work calendar. Since typical activity 50 is not late and is the only activity that has more than one resource allocated to it (three shutters), it is worth it to do a what-if analysis to see what happens if the shutters were to be reduced to two. It took less than a minute to calculate that on a 486DX2 66 MHz computer and P3 release 5.1 to realize that the project completion date would be moved fourteen days, from August 3 to August 17, 1988 due to the elimination of one shutter set.

9.2.3 Electrical Substations, Features Validated

In this case study the following features of CPM/LOB have been emphasized and validated as superior characteristics over those provided by the current applications on planning and scheduling repetitive projects:

1. Resource-based relationships among repetitive activities which are tedious to create then to update and vulnerable to human error, are replaced with an easier and more realistic scheduling that depends on the availability of team resources and leveling thereof. So for example, the individual activities of typical activity 50 which required three squads, should have been linked with resource-based relationships as follows: 27-50 to 31-50, 25-50 to 30-50, 29-50 to 28-50, and 31-50 to 26-50. These have to be revised each time the sequence or the quantity of squads is changed.
2. Repetitive activities can maintain a practical continuity that do not impact the completion date within the CPM context. This continuity can be further enhanced by manipulating the available float. This was demonstrated above on squad CR26 and shown in Figs. 9.5 and 9.6.
3. Through the application of the LOB concept to calculate resources at the outset of the planning process, a considerably better overview of the project is gained. This was demonstrated by an early identification of the required quantities of resources to complete on target and a lucid perception of the critical path flow even before running the schedule on the CPM software.
4. The capability of readily assessing alternative resource-driven strategies on the completion date, which could be inconspicuous though potentially big.

5. The ability to quantify the state of balance of a project progress through regularity charts that are superior to LOB charts in being rate sensitive, and associated with a single quantification figure.

JASSIM AL NISIF		PRIMAVERA PROJECT PLANNER			SUBSTATIONS	
REPORT DATE 21NOV94 10:02		PROJECT CALENDAR		DATA DATE 1DEC87	START DATE 1DEC87	
						PAGE NO. 1
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1DEC87 1	2DEC87 2	3DEC87 3	4DEC87 NO WORK	5DEC87 4
6DEC87 5	7DEC87 6	8DEC87 7	9DEC87 8	10DEC87 9	11DEC87 NO WORK	12DEC87 10
13DEC87 11	14DEC87 12	15DEC87 13	16DEC87 14	17DEC87 15	18DEC87 NO WORK	19DEC87 16
20DEC87 17	21DEC87 18	22DEC87 19	23DEC87 20	24DEC87 21	25DEC87 NO WORK	26DEC87 22
27DEC87 23	28DEC87 24	29DEC87 25	30DEC87 26	31DEC87 NO WORK		
					1JAN88 NO WORK	2JAN88 27
3JAN88 28	4JAN88 29	5JAN88 30	6JAN88 31	7JAN88 32	8JAN88 NO WORK	9JAN88 33
10JAN88 34	11JAN88 35	12JAN88 36	13JAN88 37	14JAN88 38	15JAN88 NO WORK	16JAN88 39
17JAN88 40	18JAN88 41	19JAN88 42	20JAN88 43	21JAN88 44	22JAN88 NO WORK	23JAN88 45
24JAN88 46	25JAN88 47	26JAN88 48	27JAN88 49	28JAN88 50	29JAN88 NO WORK	30JAN88 51
31JAN88 52						
	1FEB88 53	2FEB88 54	3FEB88 55	4FEB88 56	5FEB88 NO WORK	6FEB88 57
7FEB88 58	8FEB88 59	9FEB88 60	10FEB88 61	11FEB88 62	12FEB88 NO WORK	13FEB88 63
14FEB88 64	15FEB88 65	16FEB88 66	17FEB88 67	18FEB88 68	19FEB88 NO WORK	20FEB88 69
21FEB88 70	22FEB88 71	23FEB88 72	24FEB88 73	25FEB88 NO WORK	26FEB88 NO WORK	27FEB88 74
28FEB88 75	29FEB88 76					
		1MAR88 77	2MAR88 78	3MAR88 79	4MAR88 NO WORK	5MAR88 80

Figure 9.1 - Case 1, Work Calendar.

JASSIN AL NISIF		PRIMAVERA PROJECT PLANNER			SUBSTATIONS	
REPORT DATE 21NOV94 10:02		PROJECT CALENDAR			DATA DATE 1DEC87	START DATE 1DEC87
					PAGE NO. 2	
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
6MAR88 81	7MAR88 82	8MAR88 83	9MAR88 84	10MAR88 85	11MAR88 NO WORK	12MAR88 86
13MAR88 87	14MAR88 88	15MAR88 89	16MAR88 90	17MAR88 91	18MAR88 NO WORK	19MAR88 92
20MAR88 93	21MAR88 94	22MAR88 95	23MAR88 96	24MAR88 97	25MAR88 NO WORK	26MAR88 98
27MAR88 99	28MAR88 NO WORK	29MAR88 100	30MAR88 101	31MAR88 102		
					1APR88 NO WORK	2APR88 103
3APR88 104	4APR88 105	5APR88 106	6APR88 107	7APR88 108	8APR88 NO WORK	9APR88 109
10APR88 110	11APR88 111	12APR88 112	13APR88 113	14APR88 114	15APR88 NO WORK	16APR88 115
17APR88 116	18APR88 117	19APR88 118	20APR88 119	21APR88 120	22APR88 NO WORK	23APR88 121
24APR88 122	25APR88 123	26APR88 124	27APR88 125	28APR88 126	29APR88 NO WORK	30APR88 127
1MAY88 128	2MAY88 129	3MAY88 130	4MAY88 131	5MAY88 132	6MAY88 NO WORK	7MAY88 133
8MAY88 134	9MAY88 135	10MAY88 136	11MAY88 137	12MAY88 138	13MAY88 NO WORK	14MAY88 139
15MAY88 140	16MAY88 141	17MAY88 142	18MAY88 143	19MAY88 144	20MAY88 NO WORK	21MAY88 145
22MAY88 146	23MAY88 147	24MAY88 148	25MAY88 149	26MAY88 150	27MAY88 NO WORK	28MAY88 151
29MAY88 152	30MAY88 NO WORK	31MAY88 153				
			1JUN88 154	2JUN88 155	3JUN88 NO WORK	4JUN88 156
5JUN88 157	6JUN88 158	7JUN88 159	8JUN88 160	9JUN88 161	10JUN88 NO WORK	11JUN88 162
12JUN88 163	13JUN88 164	14JUN88 165	15JUN88 166	16JUN88 167	17JUN88 NO WORK	18JUN88 168

Figure 9.1 - Case 1, Work Calendar (Continued).

JASSIM AL NISIF		PRIMAVERA PROJECT PLANNER				SUBSTATIONS	
REPORT DATE 21NOV94 10:02		PROJECT CALENDAR				DATA DATE 1DEC87	START DATE 1DEC87
						PAGE NO. 3	
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
19JUN88 169	20JUN88 170	21JUN88 171	22JUN88 172	23JUN88 173	24JUN88 NO WORK	25JUN88 174	
26JUN88 175	27JUN88 176	28JUN88 177	29JUN88 178	30JUN88 179			
					1JUL88 NO WORK	2JUL88 180	
3JUL88 181	4JUL88 182	5JUL88 183	6JUL88 184	7JUL88 185	8JUL88 NO WORK	9JUL88 186	
10JUL88 187	11JUL88 188	12JUL88 189	13JUL88 190	14JUL88 191	15JUL88 NO WORK	16JUL88 192	
17JUL88 193	18JUL88 194	19JUL88 195	20JUL88 196	21JUL88 197	22JUL88 NO WORK	23JUL88 198	
24JUL88 199	25JUL88 200	26JUL88 201	27JUL88 202	28JUL88 203	29JUL88 NO WORK	30JUL88 204	
31JUL88 205							
	1AUG88 206	2AUG88 207	3AUG88 208	4AUG88 NO WORK	5AUG88 NO WORK	6AUG88 209	
7AUG88 210	8AUG88 211	9AUG88 212	10AUG88 213	11AUG88 214	12AUG88 NO WORK	13AUG88 215	
14AUG88 216	15AUG88 217	16AUG88 218	17AUG88 219	18AUG88 220	19AUG88 NO WORK	20AUG88 221	
21AUG88 222	22AUG88 223	23AUG88 224	24AUG88 225	25AUG88 NO WORK	26AUG88 NO WORK	27AUG88 226	
28AUG88 227	29AUG88 228	30AUG88 229	31AUG88 230				

Figure 9.1 - Case 1, Work Calendar (Continued).

Figure 9.2 - Case 1, Logic Diagram of a Typical Substation.

START DATE 1DEC87 FIN DATE 31AUG88*

DATA DATE 1DEC87 PAGE NO. 1

Figure 9.3 - Case 1, Schedule of a Typical Substation Network Showing T_{aa} under the "Total Float" Column.

Table 9.1 - Case 1, Calculation of Minimum Quantity of Resources to Complete by August 31, 1988.

									Normalized
			Resource	Taa	Rma	Sma	Sma	Independent rate	Independent rate
ACT ID	Activity title	Resource	duration	TF	{7-1} + (5)	(6) x (4)	Rounded	(8) + (4)	(9) x .083 ÷ (6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
04	LEVELING & SETTING OUT	CR04	1	72	0.083	0.083	1	1.000	1.000
08	MANUAL EXCAVATION & P.C. UNDER FOOTINGS	CR08	6	72	0.083	0.500	1	0.167	0.167
10	REINFORCED CONC. FOOTINGS	SH10	6	72	0.083	0.500	1	0.167	0.167
12	REINFORCED CONC. COLUMN NECKS	SH12	5	72	0.083	0.417	1	0.200	0.200
26	TRANSFORMERS BASES	CR26	5	79	0.076	0.380	1	0.200	0.219
28	TRENCHES , R.C. FLOOR SLAB	CR28	5	72	0.083	0.417	1	0.200	0.200
30	TRENCHES R.C. WALLS	SH30	7	72	0.083	0.583	1	0.143	0.143
38	BITUMINOUS COATS FOR TRANS.BASES,TRENCHES &PIPES	CR38	5	72	0.083	0.417	1	0.200	0.200
42	R.C. GROUND BEAMS	SH42	6	72	0.083	0.500	1	0.167	0.167
48	R.C. COLUMNS	SH48	6	72	0.083	0.500	1	0.167	0.167
50	ROOF BEAMS, SLAB & PARAPETS	SH50	27	72	0.083	2.250	3	0.111	0.111
60	SANDLIME BRICKS OF WALLS TO FIXTURES&LINTELS LVL	CR60	10	72	0.083	0.833	1	0.100	0.100
70	FOAM & SCREED	CR70	7	80	0.075	0.525	1	0.143	0.159
74	ROOF WATER PROOFING	CR74	7	80	0.075	0.525	1	0.143	0.159
78	FLOOR FINISHINGS	CR78	7	72	0.083	0.583	1	0.143	0.143
80	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	CR80	10	79	0.076	0.759	1	0.100	0.110
82	ROOF CEMENT TILES	CR82	5	80	0.075	0.375	1	0.200	0.222
84	INSTALLING STEEL DOORS, & IRONMONGERY	CR84	10	72	0.083	0.833	1	0.100	0.100
88	PAINT WORKS & TOUCH UPS	CR88	7	72	0.083	0.583	1	0.143	0.143

START DATE 1DEC87 PIN DATE 16AUG88

DATA DATE 1DEC87 PAGE NO. 1

Figure 9.4 - Case 1, Baseline Schedule.

START DATE 1DEC87 FIN DATE 16AUG88

DATA DATE 1DEC87 PAGE NO. 2

Figure 9.4 - Case 1, Baseline Schedule (Continued).

JASSIM AL NISIF				PRIMAVERA PROJECT PLANNER				TWO TRANSFORMER SUBSTATIONS 7 NETS			
REPORT DATE 20SEP95 RUN NO. 63				NHA JAHRA III HOUSING PROJECT				START DATE 1DEC87 FIN DATE 16AUG88			
1:13											
Baseline Schedule by Typical Activity & ES								DATA DATE 1DEC87 PAGE NO. 3			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVEL ES	LEVEL HF	LEVEL LS	LEVEL LF	TOTAL FLOAT	
30-38	5	5	0	5	BITUMINOUS COATS FOR TRANS.BASES,TRENCHES &PIPES	17MAR88	22MAR88	2APR88	6APR88	12	
28-38	5	5	0	6	BITUMINOUS COATS FOR TRANS.BASES,TRENCHES &PIPES	26MAR88	31MAR88	13APR88	18APR88	15	
26-38	5	5	0	7	BITUMINOUS COATS FOR TRANS.BASES,TRENCHES &PIPES	4APR88	9APR88	25APR88	30APR88	18	
27-40	3	3	0	1	BACKFILL TO 0.00 LEVEL	18FEB88	21FEB88	18FEB88	21FEB88	0	
25-40	3	3	0	2	BACKFILL TO 0.00 LEVEL	28FEB88	1MAR88	2MAR88	5MAR88	3	
29-40	3	3	0	3	BACKFILL TO 0.00 LEVEL	7MAR88	9MAR88	14MAR88	16MAR88	6	
31-40	3	3	0	4	BACKFILL TO 0.00 LEVEL	15MAR88	17MAR88	26MAR88	29MAR88	9	
30-40	3	3	0	5	BACKFILL TO 0.00 LEVEL	23MAR88	26MAR88	7APR88	10APR88	12	
28-40	3	3	0	6	BACKFILL TO 0.00 LEVEL	2APR88	4APR88	19APR88	21APR88	15	
26-40	3	3	0	7	BACKFILL TO 0.00 LEVEL	10APR88	12APR88	1MAY88	3MAY88	18	
27-42	6	6	0	1	R.C. GROUND BEAMS	22FEB88	29FEB88	22FEB88	29FEB88	0	
25-42	6	6	0	2	R.C. GROUND BEAMS	2MAR88	8MAR88	6MAR88	12MAR88	3	
29-42	6	6	0	3	R.C. GROUND BEAMS	10MAR88	16MAR88	17MAR88	23MAR88	6	
31-42	6	6	0	4	R.C. GROUND BEAMS	19MAR88	24MAR88	30MAR88	5APR88	9	
30-42	6	6	0	5	R.C. GROUND BEAMS	27MAR88	3APR88	11APR88	17APR88	12	
28-42	6	6	0	6	R.C. GROUND BEAMS	5APR88	11APR88	23APR88	28APR88	15	
26-42	6	6	0	7	R.C. GROUND BEAMS	13APR88	19APR88	4MAY88	10MAY88	18	
27-43	5	5	0	1	BITUMINOUS COATS OF GROUND BEAMS	1MAR88	6MAR88	1MAR88	6MAR88	0	
25-43	5	5	0	2	BITUMINOUS COATS OF GROUND BEAMS	9MAR88	14MAR88	13MAR88	17MAR88	3	
29-43	5	5	0	3	BITUMINOUS COATS OF GROUND BEAMS	17MAR88	22MAR88	24MAR88	30MAR88	6	
31-43	5	5	0	4	BITUMINOUS COATS OF GROUND BEAMS	26MAR88	31MAR88	6APR88	11APR88	9	
30-43	5	5	0	5	BITUMINOUS COATS OF GROUND BEAMS	4APR88	9APR88	18APR88	23APR88	12	
28-43	5	5	0	6	BITUMINOUS COATS OF GROUND BEAMS	12APR88	17APR88	30APR88	4MAY88	15	
26-43	5	5	0	7	BITUMINOUS COATS OF GROUND BEAMS	20APR88	25APR88	11MAY88	16MAY88	18	
27-44	2	2	0	1	BACKFILL TO GROUND SLAB LEVEL (+0.20)	7MAR88	8MAR88	7MAR88	8MAR88	0	
25-44	2	2	0	2	BACKFILL TO GROUND SLAB LEVEL (+0.20)	15MAR88	16MAR88	19MAR88	20MAR88	3	
29-44	2	2	0	3	BACKFILL TO GROUND SLAB LEVEL (+0.20)	23MAR88	24MAR88	31MAR88	2APR88	6	
31-44	2	2	0	4	BACKFILL TO GROUND SLAB LEVEL (+0.20)	2APR88	3APR88	12APR88	13APR88	9	
30-44	2	2	0	5	BACKFILL TO GROUND SLAB LEVEL (+0.20)	10APR88	11APR88	24APR88	25APR88	12	
28-44	2	2	0	6	BACKFILL TO GROUND SLAB LEVEL (+0.20)	18APR88	19APR88	5MAY88	7MAY88	15	
26-44	2	2	0	7	BACKFILL TO GROUND SLAB LEVEL (+0.20)	26APR88	27APR88	17MAY88	18MAY88	18	
27-46	3	3	0	1	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	9MAR88	12MAR88	9MAR88	12MAR88	0	
25-46	3	3	0	2	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	17MAR88	20MAR88	21MAR88	23MAR88	3	
29-46	3	3	0	3	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	26MAR88	29MAR88	3APR88	5APR88	6	
31-46	3	3	0	4	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	4APR88	6APR88	14APR88	17APR88	9	
30-46	3	3	0	5	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	12APR88	14APR88	26APR88	28APR88	12	
28-46	3	3	0	6	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	20APR88	23APR88	8MAY88	10MAY88	15	
26-46	3	3	0	7	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	28APR88	1MAY88	19MAY88	22MAY88	18	
27-48	6	6	0	1	R.C. COLUMNS	13MAR88	19MAR88	13MAR88	19MAR88	0	
25-48	6	6	0	2	R.C. COLUMNS	21MAR88	27MAR88	24MAR88	31MAR88	3	
29-48	6	6	0	3	R.C. COLUMNS	30MAR88	5APR88	6APR88	12APR88	6	
31-48	6	6	0	4	R.C. COLUMNS	7APR88	13APR88	18APR88	24APR88	9	
30-48	6	6	0	5	R.C. COLUMNS	16APR88	21APR88	30APR88	5MAY88	12	
28-48	6	6	0	6	R.C. COLUMNS	24APR88	30APR88	11MAY88	17MAY88	15	
26-48	6	6	0	7	R.C. COLUMNS	2MAY88	8MAY88	23MAY88	29MAY88	18	
27-50	15	15	0	1	ROOF BEAMS, SLAB & PARAPETS	20MAR88	6APR88	20MAR88	6APR88	0	
25-50	15	15	0	2	ROOF BEAMS, SLAB & PARAPETS	29MAR88	14APR88	2APR88	18APR88	3	
29-50	15	15	0	3	ROOF BEAMS, SLAB & PARAPETS	6APR88	23APR88	13APR88	30APR88	6	
31-50	15	15	0	4	ROOF BEAMS, SLAB & PARAPETS	21APR88	8MAY88	25APR88	11MAY88	9	
30-50	15	15	0	5	ROOF BEAMS, SLAB & PARAPETS	30APR88	16MAY88	7MAY88	23MAY88	12	
28-50	15	15	0	6	ROOF BEAMS, SLAB & PARAPETS	8MAY88	24MAY88	18MAY88	5JUN88	15	
26-50	15	15	0	7	ROOF BEAMS, SLAB & PARAPETS	23MAY88	9JUN88	31MAY88	16JUN88	18	
27-60	10	10	0	1	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	21APR88	2MAY88	21APR88	2MAY88	0	
25-60	10	10	0	2	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	3MAY88	14MAY88	3MAY88	14MAY88	0	
29-60	10	10	0	3	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	15MAY88	25MAY88	15MAY88	25MAY88	0	
31-60	10	10	0	4	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	26MAY88	7JUN88	26MAY88	7JUN88	0	
30-60	10	10	0	5	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	8JUN88	19JUN88	8JUN88	19JUN88	0	
28-60	10	10	0	6	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	20JUN88	30JUN88	20JUN88	30JUN88	0	
26-60	10	10	0	7	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	2JUL88	12JUL88	2JUL88	12JUL88	0	
27-62	2	2	0	1	FULBOURA & CAST IRON ROOF DRAIN	21APR88	23APR88	22MAY88	23MAY88	26	
25-62	2	2	0	2	FULBOURA & CAST IRON ROOF DRAIN	30APR88	1MAY88	31MAY88	1JUN88	26	
29-62	2	2	0	3	FULBOURA & CAST IRON ROOF DRAIN	8MAY88	9MAY88	8JUN88	9JUN88	26	
31-62	2	2	0	4	FULBOURA & CAST IRON ROOF DRAIN	23MAY88	24MAY88	16JUN88	18JUN88	20	
30-62	2	2	0	5	FULBOURA & CAST IRON ROOF DRAIN	1JUN88	2JUN88	25JUN88	26JUN88	20	
28-62	2	2	0	6	FULBOURA & CAST IRON ROOF DRAIN	9JUN88	11JUN88	3JUL88	4JUL88	20	

Figure 9.4 - Case 1, Baseline Schedule (Continued).

START DATE 1DEC87 FIN DATE 16AUG88

DATA DATE 1DGC87 PAGE NO. 4

Figure 9.4 - Case 1, Baseline Schedule (Continued).

JASSIM AL NISIF

PRIMAVERA PROJECT PLANNER

TWO TRANSFORMER SUBSTATIONS 7 NETS

REPORT DATE 20SEP95 RUN NO. 63

NHA JAHRA III HOUSING PROJECT

START DATE 1DEC87 FIN DATE 16AUG88

14:13

Baseline Schedule by Typical Activity & ES

DATA DATE 1DEC87 PAGE NO. 5

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVEL ES	LEVEL EF	LEVEL LS	LEVEL LF	TOTAL FLOAT
25-82	5	5	0	2	ROOF CEMENT TILES	18MAY88	23MAY88	19JUN88	23JUN88	26
29-82	5	5	0	3	ROOF CEMENT TILES	26MAY88	1JUN88	27JUN88	2JUL88	26
31-82	5	5	0	4	ROOF CEMENT TILES	12JUN88	16JUN88	5JUL88	10JUL88	20
30-82	5	5	0	5	ROOF CEMENT TILES	20JUN88	25JUN88	13JUL88	18JUL88	20
28-82	5	5	0	6	ROOF CEMENT TILES	28JUN88	3JUL88	21JUL88	26JUL88	20
26-82	5	5	0	7	ROOF CEMENT TILES	13JUL88	18JUL88	30JUL88	3AUG88	14
27-84	10	10	0	1	INSTALLING STEEL DOORS, & IRONMONGERY	17MAY88	28MAY88	17MAY88	28MAY88	0
25-84	10	10	0	2	INSTALLING STEEL DOORS, & IRONMONGERY	29MAY88	9JUN88	29MAY88	9JUN88	0
29-84	10	10	0	3	INSTALLING STEEL DOORS, & IRONMONGERY	11JUN88	21JUN88	11JUN88	21JUN88	0
31-84	10	10	0	4	INSTALLING STEEL DOORS, & IRONMONGERY	22JUN88	3JUL88	22JUN88	3JUL88	0
30-84	10	10	0	5	INSTALLING STEEL DOORS, & IRONMONGERY	4JUL88	14JUL88	4JUL88	14JUL88	0
28-84	10	10	0	6	INSTALLING STEEL DOORS, & IRONMONGERY	16JUL88	26JUL88	16JUL88	26JUL88	0
26-84	10	10	0	7	INSTALLING STEEL DOORS, & IRONMONGERY	27JUL88	8AUG88	27JUL88	8AUG88	0
27-86	3	3	0	1	ROOF EXPANSION JOINTS & MASTIC	16MAY88	18MAY88	16JUN88	19JUN88	26
25-86	3	3	0	2	ROOF EXPANSION JOINTS & MASTIC	24MAY88	26MAY88	25JUN88	27JUN88	26
29-86	3	3	0	3	ROOF EXPANSION JOINTS & MASTIC	2JUN88	5JUN88	3JUL88	5JUL88	26
31-86	3	3	0	4	ROOF EXPANSION JOINTS & MASTIC	18JUN88	20JUN88	11JUL88	13JUL88	20
30-86	3	3	0	5	ROOF EXPANSION JOINTS & MASTIC	26JUN88	28JUN88	19JUL88	21JUL88	20
28-86	3	3	0	6	ROOF EXPANSION JOINTS & MASTIC	4JUL88	6JUL88	27JUL88	30JUL88	20
26-86	3	3	0	7	ROOF EXPANSION JOINTS & MASTIC	19JUL88	21JUL88	8AUG88	8AUG88	14
27-88	7	7	0	1	PAINT WORKS & TOUCH UPS	29MAY88	6JUN88	20JUN88	27JUN88	18
25-88	7	7	0	2	PAINT WORKS & TOUCH UPS	11JUN88	18JUN88	28JUN88	5JUL88	15
29-88	7	7	0	3	PAINT WORKS & TOUCH UPS	22JUN88	29JUN88	6JUL88	13JUL88	12
31-88	7	7	0	4	PAINT WORKS & TOUCH UPS	4JUL88	11JUL88	14JUL88	21JUL88	9
30-88	7	7	0	5	PAINT WORKS & TOUCH UPS	16JUL88	23JUL88	23JUL88	30JUL88	6
28-88	7	7	0	6	PAINT WORKS & TOUCH UPS	27JUL88	3AUG88	31JUL88	8AUG88	3
26-88	7	7	0	7	PAINT WORKS & TOUCH UPS	9AUG88	16AUG88	9AUG88	16AUG88	0
27-90	0	0	0	1	COMPLETION OF SUBSTATION CONSTRUCTION		6JUN88		16AUG88	60
25-90	0	0	0	2	COMPLETION OF SUBSTATION CONSTRUCTION		18JUN88		16AUG88	50
29-90	0	0	0	3	COMPLETION OF SUBSTATION CONSTRUCTION		29JUN88		16AUG88	40
31-90	0	0	0	4	COMPLETION OF SUBSTATION CONSTRUCTION		11JUL88		16AUG88	30
30-90	0	0	0	5	COMPLETION OF SUBSTATION CONSTRUCTION		23JUL88		16AUG88	20
28-90	0	0	0	6	COMPLETION OF SUBSTATION CONSTRUCTION		3AUG88		16AUG88	10
26-90	0	0	0	7	COMPLETION OF SUBSTATION CONSTRUCTION		16AUG88		16AUG88	0

Figure 9.4 - Case 1, Baseline Schedule (Continued).

Figure 9.5 - Case 1, Original Schedule of Squad CR26.

Figure 9.6 - Case 1, Full Continuity for Squad CR26.

JASSIM AL NISIF				PRIMAVERA PROJECT PLANNER				TWO TRANSFORMER SUBSTATIONS 7 NETS			
REPORT DATE 20SEP95 RUN NO. 60				NHA JAHRA III HOUSING PROJECT				START DATE 1DEC87 PIN DATE 3AUG88			
13:55											
February Schedule by Typical act & ES								DATA DATE 2FEB88 PAGE NO. 1			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT	
25-04	1	0	100	2	LEVELING & SETTING OUT						
26-04	1	0	100	7	LEVELING & SETTING OUT						
27-04	1	0	100	1	LEVELING & SETTING OUT						
28-04	1	0	100	6	LEVELING & SETTING OUT						
29-04	1	0	100	3	LEVELING & SETTING OUT						
30-04	1	0	100	5	LEVELING & SETTING OUT						
31-04	1	0	100	4	LEVELING & SETTING OUT						
25-06	1	0	100	2	MECHANICAL EXCAVATION						
26-06	1	0	100	7	MECHANICAL EXCAVATION						
27-06	1	0	100	1	MECHANICAL EXCAVATION						
28-06	1	0	100	6	MECHANICAL EXCAVATION						
29-06	1	0	100	3	MECHANICAL EXCAVATION						
30-06	1	0	100	5	MECHANICAL EXCAVATION						
31-06	1	0	100	4	MECHANICAL EXCAVATION						
25-08	6	0	100	2	MANUAL EXCAVATION & P.C. UNDER FOOTINGS						
26-08	6	0	100	7	MANUAL EXCAVATION & P.C. UNDER FOOTINGS						
27-08	6	0	100	1	MANUAL EXCAVATION & P.C. UNDER FOOTINGS						
28-08	6	0	100	6	MANUAL EXCAVATION & P.C. UNDER FOOTINGS						
29-08	6	0	100	3	MANUAL EXCAVATION & P.C. UNDER FOOTINGS						
30-08	6	0	100	5	MANUAL EXCAVATION & P.C. UNDER FOOTINGS						
31-08	6	0	100	4	MANUAL EXCAVATION & P.C. UNDER FOOTINGS						
25-10	6	0	100	2	REINFORCED CONC. FOOTINGS						
26-10	6	3	50	7	REINFORCED CONC. FOOTINGS	2FEB88	4FEB88	11FEB88	14FEB88	8	
27-10	6	0	100	1	REINFORCED CONC. FOOTINGS						
28-10	6	0	100	6	REINFORCED CONC. FOOTINGS						
29-10	6	0	100	3	REINFORCED CONC. FOOTINGS						
30-10	6	0	100	5	REINFORCED CONC. FOOTINGS						
31-10	6	0	100	4	REINFORCED CONC. FOOTINGS						
25-12	5	0	100	2	REINFORCED CONC. COLUMN NECKS						
27-12	5	0	100	1	REINFORCED CONC. COLUMN NECKS						
28-12	5	0	100	6	REINFORCED CONC. COLUMN NECKS						
29-12	5	0	100	3	REINFORCED CONC. COLUMN NECKS						
30-12	5	0	100	5	REINFORCED CONC. COLUMN NECKS						
31-12	5	0	100	4	REINFORCED CONC. COLUMN NECKS						
26-12	5	5	0	7	REINFORCED CONC. COLUMN NECKS	6FEB88	10FEB88	15FEB88	20FEB88	8	
25-14	5	0	100	2	BITUMINOUS COATS FOR FOOTINGS & COL. NECKS						
27-14	5	0	100	1	BITUMINOUS COATS FOR FOOTINGS & COL. NECKS						
28-14	5	0	100	6	BITUMINOUS COATS FOR FOOTINGS & COL. NECKS						
29-14	5	0	100	3	BITUMINOUS COATS FOR FOOTINGS & COL. NECKS						
30-14	5	0	100	5	BITUMINOUS COATS FOR FOOTINGS & COL. NECKS						
31-14	5	0	100	4	BITUMINOUS COATS FOR FOOTINGS & COL. NECKS						
26-14	5	5	0	7	BITUMINOUS COATS FOR FOOTINGS & COL. NECKS	11FEB88	16FEB88	21FEB88	27FEB88	8	
25-16	3	0	100	2	BACKFILL TO BOTTOM OF RETAINING WALLS						
27-16	3	0	100	1	BACKFILL TO BOTTOM OF RETAINING WALLS						
28-16	3	0	100	6	BACKFILL TO BOTTOM OF RETAINING WALLS						
29-16	3	0	100	3	BACKFILL TO BOTTOM OF RETAINING WALLS						
30-16	3	0	100	5	BACKFILL TO BOTTOM OF RETAINING WALLS						
31-16	3	0	100	4	BACKFILL TO BOTTOM OF RETAINING WALLS						
26-16	3	3	0	7	BACKFILL TO BOTTOM OF RETAINING WALLS	17FEB88	20FEB88	28FEB88	1MAR88	8	
25-18	3	0	100	2	PLAIN CONC. UNDER RETAINING WALLS						
27-18	3	0	100	1	PLAIN CONC. UNDER RETAINING WALLS						
28-18	3	0	100	6	PLAIN CONC. UNDER RETAINING WALLS						
29-18	3	0	100	3	PLAIN CONC. UNDER RETAINING WALLS						
30-18	3	0	100	5	PLAIN CONC. UNDER RETAINING WALLS						
31-18	3	0	100	4	PLAIN CONC. UNDER RETAINING WALLS						
26-18	3	3	0	7	PLAIN CONC. UNDER RETAINING WALLS	21FEB88	23FEB88	2MAR88	5MAR88	8	
25-20	3	0	100	2	BRICK WORK OF RETAINING WALLS						
27-20	3	0	100	1	BRICK WORK OF RETAINING WALLS						
28-20	3	0	100	6	BRICK WORK OF RETAINING WALLS						
29-20	3	0	100	3	BRICK WORK OF RETAINING WALLS						
30-20	3	0	100	5	BRICK WORK OF RETAINING WALLS						
31-20	3	0	100	4	BRICK WORK OF RETAINING WALLS						
26-20	3	3	0	7	BRICK WORK OF RETAINING WALLS	24FEB88	28FEB88	6MAR88	8MAR88	8	
25-22	3	0	100	2	BITUMINOUS COATS OF RETAINING WALLS						
27-22	3	0	100	1	BITUMINOUS COATS OF RETAINING WALLS						

Figure 9.7 - Case 1, Project Status and Schedule Update as of February 2, 1988.

TWO TRANSFORMER SUBSTATIONS 7 NETS

START DATE 1DEC87 FIN DATE 3AUG88

DATA DATE 2FEB88 PAGE NO. 2

Figure 9.7 - Case 1, Project Status and Schedule Update as of February 2, 1988 (Continued).

START DATE 1DEC87 FIN DATE 3AUG88

DATA DATE 2FEB88 PAGE NO. 3

Figure 9.7 - Case 1, Project Status and Schedule Update as of February 2, 1988 (Continued).

JASSIM AL NISIF PRIMAVERA PROJECT PLANNER TWO TRANSFORMER SUBSTATIONS 7 NETS

REPORT DATE 20SEP95 RUN NO. 60 NHA JAHRA III HOUSING PROJECT START DATE 1DEC87 FIN DATE 3AUG88

13:55

February Schedule by Typical act & ES DATA DATE 2FEB88 PAGE NO. 4

ACTIVITY ID	ORIG DUR	K&M DUR	%	CODE	ACTIVITY DESCRIPTION	LEVEL ES	LEVEL EF	LEVEL LS	LEVEL LF	TOTAL FLOAT
26-62	2	2	0	7	FULBOURA & CAST IRON ROOF DRAIN	16JUN88	18JUN88	29JUN88	30JUN88	11
27-64	2	2	0	1	LAYING GLASS BRICKS	29MAR88	30MAR88	21APR88	23APR88	20
25-64	2	2	0	2	LAYING GLASS BRICKS	30APR88	1MAY88	3MAY88	4MAY88	3
29-64	2	2	0	3	LAYING GLASS BRICKS	11MAY88	12MAY88	15MAY88	16MAY88	3
31-64	2	2	0	4	LAYING GLASS BRICKS	26MAY88	28MAY88	26MAY88	21MAY88	0
30-64	2	2	0	5	LAYING GLASS BRICKS	8JUN88	9JUN88	8JUN88	3JUN88	0
28-64	2	2	0	6	LAYING GLASS BRICKS	20JUN88	21JUN88	20JUN88	21JUN88	0
26-64	2	2	0	7	LAYING GLASS BRICKS	2JUL88	3JUL88	2JUL88	3JUL88	0
27-66	2	2	0	1	R.C. LINTELS	29MAR88	30MAR88	21APR88	23APR88	20
25-66	2	2	0	2	R.C. LINTELS	30APR88	1MAY88	3MAY88	4MAY88	3
29-66	2	2	0	3	R.C. LINTELS	11MAY88	12MAY88	15MAY88	16MAY88	3
31-66	2	2	0	4	R.C. LINTELS	26MAY88	28MAY88	26MAY88	28MAY88	0
30-66	2	2	0	5	R.C. LINTELS	8JUN88	9JUN88	8JUN88	9JUN88	0
28-66	2	2	0	6	R.C. LINTELS	20JUN88	21JUN88	20JUN88	21JUN88	0
26-66	2	2	0	7	R.C. LINTELS	2JUL88	3JUL88	2JUL88	3JUL88	0
27-68	2	2	0	1	VENTS & GRILLS	29MAR88	30MAR88	21APR88	23APR88	20
25-68	2	2	0	2	VENTS & GRILLS	30APR88	1MAY88	3MAY88	4MAY88	3
29-68	2	2	0	3	VENTS & GRILLS	11MAY88	12MAY88	15MAY88	16MAY88	3
31-68	2	2	0	4	VENTS & GRILLS	26MAY88	28MAY88	26MAY88	28MAY88	0
30-68	2	2	0	5	VENTS & GRILLS	8JUN88	9JUN88	8JUN88	9JUN88	0
28-68	2	2	0	6	VENTS & GRILLS	20JUN88	21JUN88	20JUN88	21JUN88	0
26-68	2	2	0	7	VENTS & GRILLS	2JUL88	3JUL88	2JUL88	3JUL88	0
27-70	7	7	0	1	FOAM & SCREED	19MAR88	26MAR88	12MAY88	19MAY88	46
25-70	7	7	0	2	FOAM & SCREED	20APR88	27APR88	21MAY88	28MAY88	26
29-70	7	7	0	3	FOAM & SCREED	28APR88	5MAY88	29MAY88	6JUN88	26
31-70	7	7	0	4	FOAM & SCREED	17MAY88	24MAY88	7JUN88	14JUN88	17
30-70	7	7	0	5	FOAM & SCREED	25MAY88	2JUN88	15JUN88	22JUN88	17
28-70	7	7	0	6	FOAM & SCREED	4JUN88	11JUN88	23JUN88	30JUN88	17
26-70	7	7	0	7	FOAM & SCREED	19JUN88	26JUN88	2JUL88	9JUL88	11
27-72	3	3	0	1	COMPLETING SANDLINE BRICKS OF THE WALLS	31MAR88	3APR88	24APR88	26APR88	20
25-72	3	3	0	2	COMPLETING SANDLINE BRICKS OF THE WALLS	2MAY88	4MAY88	5MAY88	8MAY88	3
29-72	3	3	0	3	COMPLETING SANDLINE BRICKS OF THE WALLS	14MAY88	16MAY88	17MAY88	19MAY88	3
31-72	3	3	0	4	COMPLETING SANDLINE BRICKS OF THE WALLS	29MAY88	1JUN88	29MAY88	1JUN88	0
30-72	3	3	0	5	COMPLETING SANDLINE BRICKS OF THE WALLS	11JUN88	13JUN88	11JUN88	13JUN88	0
28-72	3	3	0	6	COMPLETING SANDLINE BRICKS OF THE WALLS	22JUN88	25JUN88	23JUN88	25JUN88	0
26-72	3	3	0	7	COMPLETING SANDLINE BRICKS OF THE WALLS	4JUL88	6JUL88	4JUL88	6JUL88	0
27-74	7	7	0	1	ROOF WATER PROOFING	27MAR88	4APR88	21MAY88	28MAY88	46
25-74	7	7	0	2	ROOF WATER PROOFING	28APR88	5MAY88	29MAY88	6JUN88	26
29-74	7	7	0	3	ROOF WATER PROOFING	7MAY88	14MAY88	7JUN88	14JUN88	26
31-74	7	7	0	4	ROOF WATER PROOFING	25MAY88	2JUN88	15JUN88	22JUN88	17
30-74	7	7	0	5	ROOF WATER PROOFING	4JUN88	11JUN88	23JUN88	30JUN88	17
28-74	7	7	0	6	ROOF WATER PROOFING	12JUN88	19JUN88	2JUL88	9JUL88	17
26-74	7	7	0	7	ROOF WATER PROOFING	27JUN88	4JUL88	10JUL88	17JUL88	11
27-76	5	5	0	1	INSTALLING TRENCH COVERS & OTHER STEEL SECTIONS	4APR88	9APR88	30APR88	4MAY88	22
25-76	5	5	0	2	INSTALLING TRENCH COVERS & OTHER STEEL SECTIONS	5MAY88	10MAY88	11MAY88	16MAY88	5
29-76	5	5	0	3	INSTALLING TRENCH COVERS & OTHER STEEL SECTIONS	17MAY88	22MAY88	23MAY88	28MAY88	5
31-76	5	5	0	4	INSTALLING TRENCH COVERS & OTHER STEEL SECTIONS	2JUN88	7JUN88	5JUN88	9JUN88	2
30-76	5	5	0	5	INSTALLING TRENCH COVERS & OTHER STEEL SECTIONS	14JUN88	19JUN88	16JUN88	21JUN88	2
28-76	5	5	0	6	INSTALLING TRENCH COVERS & OTHER STEEL SECTIONS	26JUN88	30JUN88	28JUN88	3JUL88	2
26-76	5	5	0	7	INSTALLING TRENCH COVERS & OTHER STEEL SECTIONS	7JUL88	12JUL88	10JUL88	14JUL88	2
27-78	7	7	0	1	FLOOR FINISHINGS	4APR88	11APR88	27APR88	4MAY88	20
25-78	7	7	0	2	FLOOR FINISHINGS	5MAY88	12MAY88	9MAY88	16MAY88	3
29-78	7	7	0	3	FLOOR FINISHINGS	17MAY88	24MAY88	21MAY88	28MAY88	3
31-78	7	7	0	4	FLOOR FINISHINGS	2JUN88	9JUN88	2JUN88	9JUN88	0
30-78	7	7	0	5	FLOOR FINISHINGS	14JUN88	21JUN88	14JUN88	21JUN88	0
28-78	7	7	0	6	FLOOR FINISHINGS	26JUN88	3JUL88	26JUN88	3JUL88	0
26-78	7	7	0	7	FLOOR FINISHINGS	7JUL88	14JUL88	7JUL88	14JUL88	0
27-80	10	10	0	1	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	4APR88	14APR88	5MAY88	16MAY88	27
25-80	10	10	0	2	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	5MAY88	16MAY88	17MAY88	28MAY88	10
29-80	10	10	0	3	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	17MAY88	28MAY88	29MAY88	9JUN88	10
31-80	10	10	0	4	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	2JUN88	13JUN88	11JUN88	21JUN88	7
30-80	10	10	0	5	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	14JUN88	25JUN88	22JUN88	3JUL88	7
28-80	10	10	0	6	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	26JUN88	6JUL88	4JUL88	14JUL88	7
26-80	10	10	0	7	INSTALLING ELECT. CONDUITS, WIRING & FITTINGS	7JUL88	18JUL88	16JUL88	26JUL88	7
27-82	5	5	0	1	ROOF CEMENT TILES	5APR88	10APR88	29MAY88	4JUN88	46

Figure 9.7 - Case 1, Project Status and Schedule Update as of February 2, 1988 (Continued).

TWO TRANSFORMER SUBSTATIONS 7 NETS

START DATE 1DEC87 FIN DATE 3AUG88

DATA DATE 2FEB68 PAGE NO. 5

Figure 9.7 - Case 1, Project Status and Schedule Update as of February 2, 1988 (Continued).

Figure 9.8 - Case 1, Progress Regularity as of February 2, 1988.

JASSIM AL NISIF				PRIMAVERA PROJECT PLANNER				TWO TRANSFORMER SUBSTATIONS 7 NETS				
REPORT DATE 20SEP95 RUN NO. 59				NHA JAHRA III HOUSING PROJECT				ST/RT DATE 1DEC87 FIN DATE 3AUG88				
February Critical Activities by Typical act & ES								DATE, DATE 2FEB88 PAGE NO. 1				
ACTIVITY	ORIG	REM		ACTIVITY DESCRIPTION				LEVLEMD	LEVLEMD	LEVLEMD	LEVLEMD	TOTAL
ID	DUR	DUR	%	CODE				ES	EF	LS	LF	FLOAT
31-22	3	3	0	4	BITUMINOUS COATS OF RETAINING WALLS	2FEB88	4FEB88	2FEB88	4FEB88			0
31-24	3	3	0	4	BACKFILL TO BOTTOM OF TRANS. BASES & TRENCHES	6FEB88	8FEB88	6FEB88	8FEB88			0
31-25	3	3	0	4	P.C. UNDER TRANS. BASES & TRENCHES	9FEB88	11FEB88	9FEB88	11FEB88			0
31-28	5	5	0	4	TRENCHES, R.C. FLOOR SLAB	13FEB88	17FEB88	13FEB88	17FEB88			0
31-30	7	7	0	4	TRENCHES R.C. WALLS	18FEB88	27FEB88	18FEB88	27FEB88			0
31-32	2	2	0	4	LAYING ASBESTOS PIPES	28FEB88	29FEB88	28FEB88	29FEB88			0
31-34	3	3	0	4	BLOCK WORK TRENCHES OF TRANSFORMERS ROOM	1MAR88	3MAR88	1MAR88	3MAR88			0
31-36	3	3	0	4	CONCRETE ENCASMENT FOR PIPE DUCTS	5MAR88	7MAR88	5MAR88	7MAR88			0
31-38	5	5	0	4	BITUMINOUS COATS FOR TRANS.BASES,TRENCHES &PIPES	8MAR88	13MAR88	8MAR88	13MAR88			0
31-40	3	3	0	4	BACKFILL TO 0.00 LEVEL	14MAR88	16MAR88	14MAR88	16MAR88			0
31-42	6	6	0	4	R.C. GROUND BEAMS	17MAR88	23MAR88	17MAR88	23MAR88			0
31-43	5	5	0	4	BITUMINOUS COATS OF GROUND BEAMS	24MAR88	30MAR88	24MAR88	30MAR88			0
31-44	2	2	0	4	BACKFILL TO GROUND SLAB LEVEL (+0.20)	31MAR88	2APR88	31MAR88	2APR88			0
31-46	3	3	0	4	LAYING POLYTHENE SHEETS & CASTING GROUND SLAB	3APR88	5APR88	3APR88	5APR88			0
31-48	6	6	0	4	R.C. COLUMNS	6APR88	12APR88	6APR88	12APR88			0
31-50	15	15	0	4	ROOF BEAMS, SLAB & PARAPETS	13APR88	30APR88	13APR88	30APR88			0
31-60	10	10	0	4	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	15MAY88	25MAY88	15MAY88	25MAY88			0
30-60	10	10	0	5	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	26MAY88	7JUN88	26MAY88	7JUN88			0
28-60	10	10	0	6	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	8JUN88	19JUN88	8JUN88	19JUN88			0
26-60	10	10	0	7	SANDLINE BRICKS OF WALLS TO FIXTURES&LINTELS LVL	20JUN88	30JUN88	20JUN88	30JUN88			0
31-64	2	2	0	4	LAYING GLASS BRICKS	26MAY88	28MAY88	26MAY88	28MAY88			0
30-64	2	2	0	5	LAYING GLASS BRICKS	8JUN88	9JUN88	8JUN88	9JUN88			0
28-64	2	2	0	6	LAYING GLASS BRICKS	20JUN88	21JUN88	20JUN88	21JUN88			0
26-64	2	2	0	7	LAYING GLASS BRICKS	2JUL88	3JUL88	2JUL88	3JUL88			0
31-66	2	2	0	4	R.C. LINTELS	26MAY88	28MAY88	26MAY88	28MAY88			0
30-66	2	2	0	5	R.C. LINTELS	8JUN88	9JUN88	8JUN88	9JUN88			0
28-66	2	2	0	6	R.C. LINTELS	20JUN88	21JUN88	20JUN88	21JUN88			0
26-66	2	2	0	7	R.C. LINTELS	2JUL88	3JUL88	2JUL88	3JUL88			0
31-68	2	2	0	4	VENTS & GRILLS	26MAY88	28MAY88	26MAY88	28MAY88			0
30-68	2	2	0	5	VENTS & GRILLS	8JUN88	9JUN88	8JUN88	9JUN88			0
28-68	2	2	0	6	VENTS & GRILLS	20JUN88	21JUN88	20JUN88	21JUN88			0
26-68	2	2	0	7	VENTS & GRILLS	2JUL88	3JUL88	2JUL88	3JUL88			0
31-72	3	3	0	4	COMPLETING SANDLINE BRICKS OF THE WALLS	29MAY88	1JUN88	29MAY88	1JUN88			0
30-72	3	3	0	5	COMPLETING SANDLINE BRICKS OF THE WALLS	11JUN88	13JUN88	11JUN88	13JUN88			0
28-72	3	3	0	6	COMPLETING SANDLINE BRICKS OF THE WALLS	22JUN88	25JUN88	22JUN88	25JUN88			0
26-72	3	3	0	7	COMPLETING SANDLINE BRICKS OF THE WALLS	4JUL88	6JUL88	4JUL88	6JUL88			0
31-78	7	7	0	4	FLOOR FINISHINGS	2JUN88	9JUN88	2JUN88	9JUN88			0
30-78	7	7	0	5	FLOOR FINISHINGS	14JUN88	21JUN88	14JUN88	21JUN88			0
28-78	7	7	0	6	FLOOR FINISHINGS	26JUN88	3JUL88	26JUN88	3JUL88			0
26-78	7	7	0	7	FLOOR FINISHINGS	7JUL88	14JUL88	7JUL88	14JUL88			0
31-84	10	10	0	4	INSTALLING STEEL DOORS, & IRONMONGERY	11JUN88	21JUN88	11JUN88	21JUN88			0
30-84	10	10	0	5	INSTALLING STEEL DOORS, & IRONMONGERY	22JUN88	3JUL88	22JUN88	3JUL88			0
28-84	10	10	0	6	INSTALLING STEEL DOORS, & IRONMONGERY	4JUL88	14JUL88	4JUL88	14JUL88			0
26-84	10	10	0	7	INSTALLING STEEL DOORS, & IRONMONGERY	16JUL88	26JUL88	16JUL88	26JUL88			0
26-88	7	7	0	7	PAINT WORKS & TOUCH UPS	27JUL88	3AUG88	27JUL88	3AUG88			0
26-90	0	0	0	7	COMPLETION OF SUBSTATION CONSTRUCTION		3AUG88		3AUG88			0

Figure 9.9 - Case 1, Critical Activities as of February 2, 1988.

9.3 A Housing Project in Kuwait

As mentioned above, this was a 260 house construction contract between NHA and Al Abdulrazzak. There were four types of two story houses, very similar in design and work content: A, B, C, and D. Each floor area was about 300 sq m and the lot area was about 400 sq m. These houses were somewhat sophisticated and the construction value was equivalent to about £100K per house. Fig. 9.10 is an overview of the project layout showing houses on abutting lots called clusters with each cluster containing from two to nine houses. House numbers and types are inside the rectangles and cluster numbers are inside the ovals.

Al Abdulrazzak subcontracted the labor part of the construction to three subcontractors. Seven Seas, one of the three subcontractors, got 51 houses. Due to space limitations this case study was limited to Seven Seas' houses. The subject 51 houses are in 14 clusters: 211, 213-221, and 320-323. Seven Seas' contract duration was from April 1, 1987 to August 17, 1988. Fig. 9.11 shows the project calendar. The project schedule was Al Abdulrazzak's responsibility and was maintained by the author. The CPM network of the project started with activity A, NOTICE TO PROCEED, then B, MOBILIZATION before the 51 subnetworks of the houses began. Activities Y and Z succeeded the subnetworks of the houses and were CONTRACTOR'S CONTINGENCY and HANDOVERS & DEMOBILIZATION respectively. Each house subnetwork comprised 86 activities numbered from 01 to 86. However, there was only one typical activity, 06 CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL for each cluster. This was because backfilling was best done in layers for the whole cluster and was not convenient to do separately for each house. Fig. 9.12 shows a representative typical house subnetwork with activities A, B, Y and Z. The description of each typical activity is in Table 9.2.

9.3.1 Houses, the Baseline Schedule

Activity B MOBILIZATION is the predecessor to typical activity 02 PLOT CLEARANCE for all the houses. Likewise, activity Y CONTRACTOR'S CONTINGENCY succeeds typical activity 85 HOUSE COMPLETION for all the houses. In each cluster, common typical activity 06 succeeds typical activity 05 COLUMN NECKS and precedes typical activity 07 PLAIN CONCRETE UNDER GROUND BEAMS for all the houses of that cluster. Common typical activity 06 had a constant duration for all the clusters despite the varying work content

because the dominating factor affecting its duration was the laboratory results of the compaction test.

After imposing August 17, 1988 as the completion date, time scheduling is run to obtain the available time for activity completions, T_{aa} . This is readily obtainable from the CPM software as it is equal to the total float figure. The EF of a typical house is workday 276 (February 17, 1988) and its LF before activity Y is workday 380 (June 21, 1988), therefore TF, and obviously T_{ap} , the available time for project completions are 104 workdays (380 - 276).

Not all the 104 days will be available for completions. The existence of common activity 06 reduces them as demonstrated earlier in section 7.2. The biggest cluster of Seven Seas' houses has six houses, hence the application of equation (7.4) would be as follows:

$$D_{crit} = \{(6 - 1) \div R_{ip}\} - TF$$

and since common activity 06 is critical in the typical subnetwork, its TF is equal to zero

$$D_{crit} = (5 \div R_{ip}) - 0$$

also, per equation (7.7)

$$R_{ip} = (51 - 1) \div (104 - D_{crit})$$

by solving the above two equations simultaneously

$$R_{ip} = 0.5288 \text{ house per day, and}$$

$$D_{crit} = 9.45 \text{ days}$$

Table 9.2 shows the calculation of the minimum quantity of resources required to complete the project by August 17, 1988 after considering the effect of common activity 06. Note that the calculation against typical activity 06, the common activity, is based on 14 clusters not 51 houses. Also, its T_{aa} was reduced by $(3 - 1) \div 0.5288 = 3.78$ days to allow for the gradual start of its successor typical activity 07 on the last cluster (C221) which has 3 houses. Column 11 of Table 9.2 shows the minimum quantities of 90 resources that should be entered into the CPM software as resource availability.

The original sequence of operations was as follows:

Cluster 211, Houses: 44, 43, 42;
Cluster 213, Houses: 35, 36, 37, 32, 33, 34;
Cluster 323, Houses: 185, 186, 187;
Cluster 322, Houses: 188, 189, 190;
Cluster 321, Houses: 174, 175;
Cluster 320, Houses: 176, 177, 178;
Cluster 214, Houses: 31, 30, 29, 28;
Cluster 215, Houses: 27, 26, 25, 24, 23, 22;
Cluster 216, Houses: 21, 20, 19, 18;
Cluster 217, Houses: 17, 16;
Cluster 218, Houses: 15, 14, 13;
Cluster 219, Houses: 12, 11, 10;
Cluster 220, Houses: 9, 8, 7, 6, 5, 4; and
Cluster 221, Houses: 3, 2, 1.

After resource leveling per the above sequence, the baseline schedule, comprising 4302 activities, is obtained as shown in Fig. 9.13. It should be mentioned that due to the length of the baseline schedule, Fig. 9.13 was considered for inclusion in an appendix, however, the decision was made to keep it within the body of chapter 9 because it was the only way to demonstrate an adequate exposure of the issue of sequence as well as a thorough validation. In Fig. 9.13, for each repetitive activity, the first three digits of the activity ID refer to the cluster number, the following four characters refer to the house number and the last three characters are the typical activity number. The house number characters are replaced with asterisks on typical activity A06 since it is a common activity on each cluster. The priority code for the sequence of work which was used for leveling is shown under the column titled CODE. August 13, 1988 is the early completion date and is ahead of the target completion date of August 17, 1988. This earlier than required projected completion is attributed to rounding up the quantity of squads. With the effect of a common activity it is not easy to identify the critical path based on the LOB calculations of Table 9.2 before running the CPM schedule. This is because the grouping of the activities in clusters disturbs an otherwise readily identifiable and dominating typical activity or activities.

An alternative calculation for this baseline was done by excluding the effect of the common activity to investigate the effect on the quantity of resources. It was found that the

necessary increase in the quantity of team resources for each typical activity to make up for the effect of the common activity averaged 8.63 percent. In terms of working capital and cost to a contractor, this could very well be the difference between making a profit and a loss.

9.3.2 Houses, the Updated Schedule

The status of the project on January 31, 1988 indicated that there were many changes in the sequence of operations. These changes of sequence were identified by comparing the projected completion dates of each house based on a time schedule run before leveling. Fig. 9.14 clearly shows that by listing the final milestone activities, 86 HOUSE COMPLETION, for each house sorted by their EF dates. The numbers under the column titled CODE are the original priorities and are not in order. Therefore the progress was out-of-sequence or did not follow the original priorities. The current sequence of houses is: 43, 42, 174 and so on to house 22 per the first column of Fig. 9.14.

The priority codes were therefore changed from the original sequence mentioned above to the current sequence, then resource leveling was prioritized accordingly. Fig. 9.15 shows the project schedule (excluding, due to space limitations, completed and noncritical activities) with a projected completion date on February 21, 1989. This was based on the same quantities of resources calculated for the baseline schedule. Comparison of this date with the initial target date of August 17, 1988, indicates that the project has lost more than six months in the ten month period between April 1, 1987 and January 31, 1988.

Despite the change of sequence in actual progress, another schedule run was performed keeping everything constant except the priority codes, which were changed back to the original sequence. The intention was to expose the effect of not revising the sequence of leveling and adamantly steering the work back to the original sequence regardless of the actual out-of-sequence progress. Fig. 9.16 shows a comparison of the last milestone activity 86 HOUSE COMPLETIONS in both runs. House completions per the current sequence were earlier than those per the original sequence for all the houses except for the first three houses which were identical. This strongly supports the necessity of revising the priority of leveling in the schedule according to the actual sequence in every schedule update. Identifying and correcting out-of-sequence priorities also means avoiding considerable liquidated damages.

Fig. 9.17 shows the progress regularity of the project. It is based on the comparison of the early finish dates of the activities of house 22 (last house per the current sequence) with the corresponding ES and EF dates of the last house in the baseline schedule (house 1). Actual finish dates for the completed activities were not available, therefore these activities were not shown on the regularity chart. All typical activities are behind schedule and it is clear that the first significant drop occurred on typical activity 11 GF LOFT WALLS & SLABS. This should indicate that typical activity 11 was a bottleneck. Previous site observations by the author confirm that. Loft slabs were not a profitable item of work and they were purposely bypassed in an effort to get to the following bulk concrete slab items as soon as possible to improve the cash flow. Bypassing the loft slabs on the ground floor and the first floor was physically possible but it contradicted the logic and created out-of-logic progress. This in turn dilutes the accuracy of the regularity chart and indicates that typical activity 12 GF ROOF was the bottleneck since it was more late than its predecessors even when it physically could and did progress regardless of the relationship with its predecessor, activity 11 GF LOFT WALLS & SLABS.

9.3.3 Houses, the Revised and Decelerated Schedule

The starting point here is respecting the repeated occurrence of the out-of-logic progress and revising the logic to produce a schedule that reflects the intended method of construction. As indicated earlier in sections 2.10 and 7.3, some CPM software produce a report about current out-of-logic progress. This report is a standard output of Primavera, the software used on this work. The current logic contradictions occurred repeatedly on the relationships between 11 GF LOFT WALLS & SLABS and 12 GF ROOFS; 14 FF LOFT WALLS & SLABS and 15 FF ROOFS; and 18 PRECAST WINDOWS ERECTION and 20 GF & FF CEMENT BLOCK WORKS. Past out-of-logic progress among completed activities could not be reported by Primavera. But it could have been identified and quantified by the method described in section 7.3 had actual dates been available. That would have completed the exposure of out-of-logic progress wherever it happened towards revising the logic between future activities.

The following changes were made to the relationships of the above activities on each house: relationships between typical activities 11 GF LOFT WALLS & SLABS and 12 GF ROOF were deleted; relationships between typical activities 14 FF LOFT WALLS & SLABS and 15 FF ROOFS were deleted; typical activities 11 and 12 were made predecessors with FS relationships to typical activities 26 CAST IRON SANITARY PIPES and 27 PLASTERING PREPARATION;

the relationship of typical activity 18 PRECAST WINDOWS ERECTION with typical activity 20 GF & FF CEMENT BLOCK WORK was deleted and 18 was made predecessor to 25 WALL-EMBEDDED ELECTRICAL INSTALLATIONS with a FS relationship.

Activity 20 GF & FF CEMENT BLOCK WORK (duration 21 days) on each house was split into two new activities, representing the way it was constructed on site. The two new activities are: 91 GF CEMENT BLOCK WORK (duration 9 days), succeeding 12 GF ROOF with a FS 12 lag relationship; and 92 FF CEMENT BLOCK WORK (duration 12 days), succeeding 15 FF ROOF with a FS 12 lag relationship. Both 91 and 92 inherited all the successors of the deleted 20 GF & FF CEMENT BLOCK WORK and had squads CR91 and CR92 accordingly. The same status of typical activity 20 was kept by keeping the same remaining durations of it on each house. It should also be noted that the duration of activity Y CONTRACTOR'S CONTINGENCY, was kept unchanged.

After the above revisions of relationships, the schedule run resulted in no out-of-logic progress but the *current* sequence of completion of the houses changed solely due to the above changes of relationships. Consequently a second revision of the priority codes was necessary. Fig. 9.18 lists activity A86 per the new sequence while showing the *current* sequence under the column titled CODE.

It was realized that Seven Seas would not be able to mobilized additional resources. So picking a date even after the current projection of February 21, 1989 did not seem unrealistic. This meant deceleration. The author chose March 30, 1989 as a new target completion date and calculated the minimum required quantities of resources for each typical activity to achieve it.

Table 9.3 shows the calculation of the minimum quantity of squads required to achieve the new target. Based on the independent normalized rate, typical activities 12 and 17 are expected to be critical activities and control the pace of the progress. Again it should be noted that T_{aa} for typical activity 06 has been reduced by $(6 - 1) \div 0.0842 = 3.78$ days to account for the gradual starts of 6 of its successors on the last cluster (C215). The rounded quantities of squads in column 13 of Table 9.3 are entered into the CPM software and time scheduling then resource leveling are performed per the new sequence to get the decelerated schedule.

Fig. 9.19 shows the decelerated schedule projected completion date exactly on March 30, 1988. The critical path starts on typical activity 17 R C COLUMNS OF PARAPETS from house

43 to the last house number 22. It then flows to time-critical activities on house 22. Only one of the two squads of typical activity 17 was critical due to the nongradual start of work on this activity by the two squads. It is also noted that while typical activity 17 was resource-critical as expected, typical activity 12 GF ROOF was not. The author attributes this to the fact that on January 31, 1988 typical activity 17 had no partly completed activities whereas typical activity 12 had six partly completed activities which gave it some leeway and rendered it not as critical as 17.

The values of T_{aa} in Table 9.3 can be conveniently manipulated in the spreadsheet to calculate alternative resource requirements for more than one target date. By simply adding or subtracting a certain amount of days an immediate quantity for team resources can be obtained for a later or sooner target completion date to be achieved.

9.3.4 Houses, Features Validated

In this case study the following additional features of CPM/LOB have been emphasized and validated as superior characteristics over those provided by the current applications on planning and scheduling repetitive projects:

1. The capability of quantifying the effect of common activities and incorporating that in the schedule.
2. The integration of LOB with CPM reduced the combinations of the minimum quantities of required team resources to complete this project on target to one combination. This means avoiding many trials and errors on large schedules like this one.
3. When out-of-sequence progress happens it becomes imperative to identify the new sequence in order to revise the schedule accordingly and make it workable again. While this can be obtained by visual evaluation and comparison of the repetitive units under construction on site, nonobvious differences in time progress can be easily missed. A quick alternative in CPM/LOB is running the schedule containing the actual progress data without leveling then sorting the last typical repetitive activity by early finish dates to identify the current sequence. In traditional applications this is not possible, because resource-based relationships offset the subnetworks of the repetitive units thereby prevent a fair start alignment

for the purpose of comparing the time progress of the repetitive units, hence the current sequence.

4. Distinguishing out-of-sequence progress easily and changing the priority codes to redirect the work accordingly. Also correcting out-of-logic progress. Alternative resource-based relationship methods are not capable of differentiating between out-of-logic progress and out-of-sequence progress.
5. Through implementing the LOB control on the balance of the project along with the CPM's explicit logic between the activities, the user acquires a better overview of the project. This helps the user to focus and overcome the overwhelming of the large number of the CPM activities inherent with representing repetitive construction projects.
6. The capability of accelerating or decelerating a schedule to meet a target date is quite easy through adjusting T_{aa} values in the spreadsheet and changing the availabilities of team resources in the CPM software. It takes about 15 minutes to manually input the quantities of resources into Primavera release 5.1 and 25 minutes of computer time (486DX2 66MHz) to schedule and level this 4300 activity, 90 resource schedule. This experimentation, though possible in other methods, is very tedious because many resource-based relationships have to be revised.

Figure 9.10 - Case 2, 260-House Project Layout.

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER		JAHRA 3 HOUSING PROJECT common act		
REPORT DATE 30JUL95 17:11		PROJECT CALENDAR		DATA DATE 1APR87	START DATE 1APR87	
					PAGE NO. 1	
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1APR87 1	2APR87 2	3APR87 NO WORK	4APR87 3
5APR87 4	6APR87 5	7APR87 6	8APR87 7	9APR87 8	10APR87 NO WORK	11APR87 9
12APR87 10	13APR87 11	14APR87 12	15APR87 13	16APR87 14	17APR87 NO WORK	18APR87 15
19APR87 16	20APR87 17	21APR87 18	22APR87 19	23APR87 20	24APR87 NO WORK	25APR87 21
26APR87 22	27APR87 23	28APR87 24	29APR87 25	30APR87 26		
					1MAY87 NO WORK	2MAY87 27
3MAY87 28	4MAY87 29	5MAY87 30	6MAY87 31	7MAY87 32	8MAY87 NO WORK	9MAY87 33
10MAY87 34	11MAY87 35	12MAY87 36	13MAY87 37	14MAY87 38	15MAY87 NO WORK	16MAY87 39
17MAY87 40	18MAY87 41	19MAY87 42	20MAY87 43	21MAY87 44	22MAY87 NO WORK	23MAY87 45
24MAY87 46	25MAY87 47	26MAY87 48	27MAY87 49	28MAY87 50	29MAY87 NO WORK	30MAY87 51
31MAY87 52						
	1JUN87 53	2JUN87 54	3JUN87 55	4JUN87 56	5JUN87 NO WORK	6JUN87 57
7JUN87 58	8JUN87 59	9JUN87 60	10JUN87 61	11JUN87 62	12JUN87 NO WORK	13JUN87 63
14JUN87 64	15JUN87 65	16JUN87 66	17JUN87 67	18JUN87 68	19JUN87 NO WORK	20JUN87 69
21JUN87 70	22JUN87 71	23JUN87 72	24JUN87 73	25JUN87 74	26JUN87 NO WORK	27JUN87 75
28JUN87 76	29JUN87 77	30JUN87 78				

Figure 9.11 - Case 2, Project Calendar.

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER			JAHRA 3 HOUSING PROJECT		common act
REPORT DATE 30JUL95 17:11		PROJECT CALENDAR			DATA DATE 1APR87	START DATE 1APR87	
PAGE NO. 2							
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
			1JUL87 79	2JUL87 80	3JUL87 NO WORK	4JUL87 81	
5JUL87 82	6JUL87 83	7JUL87 84	8JUL87 85	9JUL87 86	10JUL87 NO WORK	11JUL87 87	
12JUL87 88	13JUL87 89	14JUL87 90	15JUL87 91	16JUL87 92	17JUL87 NO WORK	18JUL87 93	
19JUL87 94	20JUL87 95	21JUL87 96	22JUL87 97	23JUL87 98	24JUL87 NO WORK	25JUL87 99	
26JUL87 100	27JUL87 101	28JUL87 102	29JUL87 103	30JUL87 104	31JUL87 NO WORK		
							1AUG87 105
2AUG87 106	3AUG87 107	4AUG87 108	5AUG87 109	6AUG87 110	7AUG87 NO WORK	8AUG87 111	
9AUG87 112	10AUG87 113	11AUG87 114	12AUG87 115	13AUG87 116	14AUG87 NO WORK	15AUG87 117	
16AUG87 118	17AUG87 119	18AUG87 120	19AUG87 121	20AUG87 122	21AUG87 NO WORK	22AUG87 123	
23AUG87 124	24AUG87 125	25AUG87 126	26AUG87 127	27AUG87 128	28AUG87 NO WORK	29AUG87 129	
30AUG87 130	31AUG87 131						
		1SEP87 132	2SEP87 133	3SEP87 134	4SEP87 NO WORK	5SEP87 135	
6SEP87 136	7SEP87 137	8SEP87 138	9SEP87 139	10SEP87 140	11SEP87 NO WORK	12SEP87 141	
13SEP87 142	14SEP87 143	15SEP87 144	16SEP87 145	17SEP87 146	18SEP87 NO WORK	19SEP87 147	
20SEP87 148	21SEP87 149	22SEP87 150	23SEP87 151	24SEP87 152	25SEP87 NO WORK	26SEP87 153	
27SEP87 154	28SEP87 155	29SEP87 156	30SEP87 157				

Figure 9.11 - Case 2, Project Calendar (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER			JAHRA 3 HOUSING PROJECT common act		
REPORT DATE 30JUL95 17:11		PROJECT CALENDAR			DATA DATE 1APR87	START DATE 1APR87	
PAGE NO. 3							
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
				1OCT87 158	2OCT87 NO WORK	3OCT87 159	
4OCT87 160	5OCT87 161	6OCT87 162	7OCT87 163	8OCT87 164	9OCT87 NO WORK	10OCT87 155	
11OCT87 166	12OCT87 167	13OCT87 168	14OCT87 169	15OCT87 170	16OCT87 NO WORK	17OCT87 171	
18OCT87 172	19OCT87 173	20OCT87 174	21OCT87 175	22OCT87 176	23OCT87 NO WORK	24OCT87 177	
25OCT87 178	26OCT87 179	27OCT87 180	28OCT87 181	29OCT87 182	30OCT87 NO WORK	31OCT87 183	
1NOV87 184	2NOV87 185	3NOV87 186	4NOV87 187	5NOV87 188	6NOV87 NO WORK	7NOV87 189	
8NOV87 190	9NOV87 191	10NOV87 192	11NOV87 193	12NOV87 194	13NOV87 NO WORK	14NOV87 195	
15NOV87 196	16NOV87 197	17NOV87 198	18NOV87 199	19NOV87 200	20NOV87 NO WORK	21NOV87 201	
22NOV87 202	23NOV87 203	24NOV87 204	25NOV87 205	26NOV87 206	27NOV87 NO WORK	28NOV87 207	
29NOV87 208	30NOV87 209						
		1DEC87 210	2DEC87 211	3DEC87 212	4DEC87 NO WORK	5DEC87 213	
6DEC87 214	7DEC87 215	8DEC87 216	9DEC87 217	10DEC87 218	11DEC87 NO WORK	12DEC87 219	
13DEC87 220	14DEC87 221	15DEC87 222	16DEC87 223	17DEC87 224	18DEC87 NO WORK	19DEC87 225	
20DEC87 226	21DEC87 227	22DEC87 228	23DEC87 229	24DEC87 230	25DEC87 NO WORK	26DEC87 231	
27DEC87 232	28DEC87 233	29DEC87 234	30DEC87 235	31DEC87 NO WORK			
					1JAN88 NO WORK	2JAN88 236	

Figure 9.11 - Case 2, Project Calendar (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER			JAHRA 3 HOUSING PROJECT common act	
REPORT DATE 30 JUL95 17:11		PROJECT CALENDAR			DATA D'TE 1APR87	START DATE 1APR87
PAGE NO. 4						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
3JAN88 237	4JAN88 238	5JAN88 239	6JAN88 240	7JAN88 241	8JAN88 NO WORK	9JAN88 242
10JAN88 243	11JAN88 244	12JAN88 245	13JAN88 246	14JAN88 247	15JAN88 NO WORK	16JAN88 248
17JAN88 249	18JAN88 250	19JAN88 251	20JAN88 252	21JAN88 253	22JAN88 NO WORK	23JAN88 254
24JAN88 255	25JAN88 256	26JAN88 257	27JAN88 258	28JAN88 259	29JAN88 NO WORK	30JAN88 260
31JAN88 261						
	1FEB88 262	2FEB88 263	3FEB88 264	4FEB88 265	5FEB88 NO WORK	6FEB88 266
7FEB88 267	8FEB88 268	9FEB88 269	10FEB88 270	11FEB88 271	12FEB88 NO WORK	13FEB88 272
14FEB88 273	15FEB88 274	16FEB88 275	17FEB88 276	18FEB88 277	19FEB88 NO WORK	20FEB88 278
21FEB88 279	22FEB88 280	23FEB88 281	24FEB88 282	25FEB88 NO WORK	26FEB88 NO WORK	27FEB88 283
28FEB88 284	29FEB88 285					
		1MAR88 286	2MAR88 287	3MAR88 288	4MAR88 NO WORK	5MAR88 289
6MAR88 290	7MAR88 291	8MAR88 292	9MAR88 293	10MAR88 294	11MAR88 NO WORK	12MAR88 295
13MAR88 296	14MAR88 297	15MAR88 298	16MAR88 299	17MAR88 300	18MAR88 NO WORK	19MAR88 301
20MAR88 302	21MAR88 303	22MAR88 304	23MAR88 305	24MAR88 306	25MAR88 NO WORK	26MAR88 307
27MAR88 308	28MAR88 NO WORK	29MAR88 309	30MAR88 310	31MAR88 311		
					1APR88 NO WORK	2APR88 312

Figure 9.11 - Case 2, Project Calendar (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER			JAHRA 3 HOUSING PROJECT common act	
REPORT DATE 30JUL95 17:11		PROJECT CALENDAR			DATA DATE 1APR87	START DATE 1APR87
PAGE NO. 5						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
3APR88 313	4APR88 314	5APR88 315	6APR88 316	7APR88 317	8APR88 NO WORK	9APR88 318
10APR88 319	11APR88 320	12APR88 321	13APR88 322	14APR88 323	15APR88 NO WORK	16APR88 324
17APR88 325	18APR88 326	19APR88 327	20APR88 328	21APR88 329	22APR88 NO WORK	23APR88 330
24APR88 331	25APR88 332	26APR88 333	27APR88 334	28APR88 335	29APR88 NO WORK	30APR88 336
1MAY88 337	2MAY88 338	3MAY88 339	4MAY88 340	5MAY88 341	6MAY88 NO WORK	7MAY88 342
8MAY88 343	9MAY88 344	10MAY88 345	11MAY88 346	12MAY88 347	13MAY88 NO WORK	14MAY88 348
15MAY88 349	16MAY88 350	17MAY88 351	18MAY88 352	19MAY88 353	20MAY88 NO WORK	21MAY88 354
22MAY88 355	23MAY88 356	24MAY88 357	25MAY88 358	26MAY88 359	27MAY88 NO WORK	28MAY88 360
29MAY88 361	30MAY88 NO WORK	31MAY88 362				
			1JUN88 363	2JUN88 364	3JUN88 NO WORK	4JUN88 365
5JUN88 366	6JUN88 367	7JUN88 368	8JUN88 369	9JUN88 370	10JUN88 NO WORK	11JUN88 371
12JUN88 372	13JUN88 373	14JUN88 374	15JUN88 375	16JUN88 376	17JUN88 NO WORK	18JUN88 377
19JUN88 378	20JUN88 379	21JUN88 380	22JUN88 381	23JUN88 382	24JUN88 NO WORK	25JUN88 383
26JUN88 384	27JUN88 385	28JUN88 386	29JUN88 387	30JUN88 388		
					1JUL88 NO WORK	2JUL88 389
3JUL88 390	4JUL88 391	5JUL88 392	6JUL88 393	7JUL88 394	8JUL88 NO WORK	9JUL88 395

Figure 9.11 - Case 2, Project Calendar (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER		JAHRA 3 HOUSING PROJECT common act		
REPORT DATE 30JUL95 17:11		PROJECT CALENDAR		DATA DATE 1APR87	START DATE 1APR87	
				PAGE NO. 6		
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10JUL88 396	11JUL88 397	12JUL88 398	13JUL88 399	14JUL88 400	15JUL88 NO WORK	16JUL88 401
17JUL88 402	18JUL88 403	19JUL88 404	20JUL88 405	21JUL88 406	22JUL88 NO WORK	23JUL88 407
24JUL88 408	25JUL88 409	26JUL88 410	27JUL88 411	28JUL88 412	29JUL88 NO WORK	30JUL88 413
31JUL88 414						
	1AUG88 415	2AUG88 416	3AUG88 417	4AUG88 NO WORK	5AUG88 NO WORK	6AUG88 418
7AUG88 419	8AUG88 420	9AUG88 421	10AUG88 422	11AUG88 423	12AUG88 NO WORK	13AUG88 424
14AUG88 425	15AUG88 426	16AUG88 427	17AUG88 428	18AUG88 429	19AUG88 NO WORK	20AUG88 430
21AUG88 431	22AUG88 432	23AUG88 433	24AUG88 434	25AUG88 NO WORK	26AUG88 NO WORK	27AUG88 435
28AUG88 436	29AUG88 437	30AUG88 438	31AUG88 439			
				1SEP88 440	2SEP88 NO WORK	3SEP88 441
4SEP88 442	5SEP88 443	6SEP88 444	7SEP88 445	8SEP88 446	9SEP88 NO WORK	10SEP88 447
11SEP88 448	12SEP88 449	13SEP88 450	14SEP88 451	15SEP88 452	16SEP88 NO WORK	17SEP88 453
18SEP88 454	19SEP88 455	20SEP88 456	21SEP88 457	22SEP88 458	23SEP88 NO WORK	24SEP88 459
25SEP88 460	26SEP88 461	27SEP88 462	28SEP88 463	29SEP88 464	30SEP88 NO WORK	
						1OCT88 465
2OCT88 466	3OCT88 467	4OCT88 468	5OCT88 469	6OCT88 470	7OCT88 NO WORK	8OCT88 471

Figure 9.11 - Case 2, Project Calendar (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER			JAHRA 3 HOUSING PROJECT common act	
REPORT DATE 30JUL95 17:11		PROJECT CALENDAR			DATA DATE 1APR87	START DATE 1APR87
PAGE NO. 7						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9OCT88 472	10OCT88 473	11OCT88 474	12OCT88 475	13OCT88 476	14OCT88 NO WORK	15OCT88 477
16OCT88 478	17OCT88 479	18OCT88 480	19OCT88 481	20OCT88 482	21OCT88 NO WORK	22OCT88 483
23OCT88 484	24OCT88 485	25OCT88 486	26OCT88 487	27OCT88 488	28OCT88 NO WORK	29OCT88 489
30OCT88 490	31OCT88 491					
		1NOV88 492	2NOV88 493	3NOV88 494	4NOV88 NO WORK	5NOV88 495
6NOV88 496	7NOV88 497	8NOV88 498	9NOV88 499	10NOV88 500	11NOV88 NO WORK	12NOV88 501
13NOV88 502	14NOV88 503	15NOV88 504	16NOV88 505	17NOV88 506	18NOV88 NO WORK	19NOV88 507
20NOV88 508	21NOV88 509	22NOV88 510	23NOV88 511	24NOV88 512	25NOV88 NO WORK	26NOV88 513
27NOV88 514	28NOV88 515	29NOV88 516	30NOV88 517			
				1DEC88 518	2DEC88 NO WORK	3DEC88 519
4DEC88 520	5DEC88 521	6DEC88 522	7DEC88 523	8DEC88 524	9DEC88 NO WORK	10DEC88 525
11DEC88 526	12DEC88 527	13DEC88 528	14DEC88 529	15DEC88 530	16DEC88 NO WORK	17DEC88 531
18DEC88 532	19DEC88 533	20DEC88 534	21DEC88 535	22DEC88 536	23DEC88 NO WORK	24DEC88 537
25DEC88 538	26DEC88 539	27DEC88 540	28DEC88 541	29DEC88 542	30DEC88 NO WORK	31DEC88 543
1JAN89 NO WORK	2JAN89 544	3JAN89 545	4JAN89 546	5JAN89 547	6JAN89 NO WORK	7JAN89 548
8JAN89 549	9JAN89 550	10JAN89 551	11JAN89 552	12JAN89 553	13JAN89 NO WORK	14JAN89 554

Figure 9.11 - Case 2, Project Calendar (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.		PRIMAVERA PROJECT PLANNER		JAHRA 3 HOUSING PROJECT common act		
REPORT DATE 30JUL95 17:11		PROJECT CALENDAR		DATA DATE 1APR87	START DATE 1APR87	PAGE NO. 8
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
15JAN89 555	16JAN89 556	17JAN89 557	18JAN89 558	19JAN89 559	20JAN89 NO WORK	21JAN89 560
22JAN89 561	23JAN89 562	24JAN89 563	25JAN89 564	26JAN89 565	27JAN89 NO WORK	28JAN89 566
29JAN89 567	30JAN89 568	31JAN89 569				
			1FEB89 570	2FEB89 571	3FEB89 NO WORK	4FEB89 572
5FEB89 573	6FEB89 574	7FEB89 575	8FEB89 576	9FEB89 577	10FEB89 NO WORK	11FEB89 578
12FEB89 579	13FEB89 580	14FEB89 581	15FEB89 582	16FEB89 583	17FEB89 NO WORK	18FEB89 584
19FEB89 585	20FEB89 586	21FEB89 587	22FEB89 588	23FEB89 589	24FEB89 NO WORK	25FEB89 NO WORK
26FEB89 590	27FEB89 591	28FEB89 592				
			1MAR89 593	2MAR89 594	3MAR89 NO WORK	4MAR89 595
5MAR89 596	6MAR89 597	7MAR89 598	8MAR89 599	9MAR89 600	10MAR89 NO WORK	11MAR89 601
12MAR89 602	13MAR89 603	14MAR89 604	15MAR89 605	16MAR89 606	17MAR89 NO WORK	18MAR89 607
19MAR89 608	20MAR89 609	21MAR89 610	22MAR89 611	23MAR89 612	24MAR89 NO WORK	25MAR89 613
26MAR89 614	27MAR89 615	28MAR89 616	29MAR89 617	30MAR89 618	31MAR89 NO WORK	
						1APR89 619

Figure 9.11 - Case 2, Project Calendar (Continued).

LEGEND

ACT ID	TF
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Figure 9.12 - Case 2, Typical House Network.

Figure 9.12 - Case 2, Typical House Network (Continued).

Figure 9.12 - Case 2, Typical House Network (Continued).

Table 9.2 - Case 2, Calculation of Min. Quantity of Resources to Complete by August 17, 1988.

ACT ID	Activity title	Activity duration	Resource	Resource lag	Resource duration	Taa	Taa - Dcrt	Ria	Sma	Sma
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(7) - 9.45	50 + (Taa - Dcrt)	(9) x (6)	rounded
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
01	PLOT CLEARANCE	1	CR01	0	1	104	94.55	0.5288	0.529	1
02	EXCAVATION & LAYOUT	5	CR02	0	5	104	94.55	0.5288	2.644	3
03	PLAIN CONCRETE FOR FOOTINGS	3	CR03	0	3	104	94.55	0.5288	1.587	2
04	R.C. FOOTINGS	6	CR04	0	6	104	94.55	0.5288	3.173	4
05	COLUMN NECKS	8	CR05	0	8	104	94.55	0.5288	4.231	5
06	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVE	8	CR06	0	8	104	90.76	0.1432	1.146	2
07	PLAIN CONCRETE UNDER GROUND BEAMS	4	CR07	0	4	104	94.55	0.5288	2.115	3
08	GROUND BEAMS	13	CR08	0	13	104	94.55	0.5288	6.875	7
09	2nd BACKFILL & SLAB ON GRADE	6	CR09	0	6	104	94.55	0.5288	3.173	4
10	GF COLUMNS	7	CR10	0	7	106	96.55	0.5179	3.625	4
11	GF LOFT WALLS & SLABS	9	CR11	0	9	104	94.55	0.5288	4.760	5
12	GF ROOF	12	CR12	0	12	104	94.55	0.5288	6.346	7
13	FF COLUMNS	7	CR13	0	7	106	96.55	0.5179	3.625	4
14	FF LOFT WALLS & SLABS	9	CR14	0	9	104	94.55	0.5288	4.760	5
15	FF ROOF	12	CR15	0	12	104	94.55	0.5288	6.346	7
16	PENTHOUSE COLUMNS & ROOF	9	CR16	0	9	111	101.55	0.4924	4.432	5
17	R.C. COLUMNS OF PARAPETS	7	CR17	0	7	125	115.55	0.4327	3.029	4
18	PRECAST WINDOWS ERECTION	3	CR18	0	3	120	110.55	0.4523	1.357	2
19	BLOCK WORKS OF PARAPETS	5	CR19	0	5	125	115.55	0.4327	2.164	3
20	GF & FF CEMENT BLOCK WORKS	21	CR20	0	21	104	94.55	0.5288	11.106	12
21	BLOCK WORKS OF PENTHOUSE	5	CR21	0	5	111	101.55	0.4924	2.462	3
22	ROOF DRAINS	3	CR22	0	3	155	145.55	0.3435	1.031	2
23	HANDLIME BRICKS CLADDING	21	CR23	0	21	104	94.55	0.5288	11.106	12
24	ELECTRICAL MAIN SWITCH BOARD	4	CR24	0	4	215	205.55	0.2433	0.973	1
25	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	7	CR25	0	7	133	123.55	0.4047	2.833	3
26	CAST IRON SANITARY PIPES	10	CR26	0	10	129	119.55	0.4183	4.183	5
27	PLASTERING PREPARATION	13	CR27	0	13	133	123.55	0.4047	5.261	6
28	DALVANIZED WATER SUPPLY PIPES	10	CR28	0	10	129	119.55	0.4183	4.183	5
29	MARBLE FRAMES	6	CR29	0	6	135	125.55	0.3983	2.390	3
30	WOODEN FRAMES	4	CR30	0	4	136	126.55	0.3951	1.580	2
31	BLOCK WORKS OF CHASES	6	CR31	0	6	131	121.55	0.4114	2.468	3

Table 9.2 - Case 2, Calculation of Min. Quantity of Resources to Complete by August 17, 1988 (Continued).

ACT ID	Activity title	Activity duration	Resource	Resource lag	Resource duration	Taa	Taa - Dcrt (7) - 9.45	Ria 50 + (Taa - Dcrt)	Sma (9) x (6)	Sma rounded
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
32	PLASTERING	8	CR32	0	8	133	123.55	0.4047	3.238	4
33	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.	24	CR33	0	24	104	94.55	0.5288	12.692	13
34	PARAPETS COPING & TANK SUPPORTS	6	CR34	0	6	143	133.55	0.3744	2.246	3
35	PORCELAIN WALL TILES	12	CR35	0	12	131	121.55	0.4114	4.936	5
36	ROOF FOAM & SCREED	10	CR36	0	10	143	133.55	0.3744	3.744	4
37	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	6	CR37	0	6	145	135.55	0.3689	2.213	3
39	TERRAZZO FLOOR TILES & SKIRTING	13	CR39	0	13	133	123.55	0.4047	5.261	6
40	ROOF WATER PROOFING LAYERS	6	CR40	0	6	143	133.55	0.3744	2.246	3
41	SANITARY FITTINGS (Floor Embedded)	4	CR41	0	4	131	121.55	0.4114	1.645	2
42	MARBLE STAIRS & SKIRTING	6	CR42	0	6	133	123.55	0.4047	2.428	3
43	JOINERY WORKS	4	CR43	0	4	141	131.55	0.3801	1.520	2
44	WATERPROOFING IN WET FLOOR AREAS	6	CR44	0	6	131	121.55	0.4114	2.468	3
45	ROOF EMBEDDED DRAINAGE PIPES	2	CR45	0	2	145	135.55	0.3689	0.738	1
46	BOUNDARY WALL REIN. CONC. COLUMNS	7	CR46	0	7	120	110.55	0.4523	3.166	4
47	PRECAST UNITS OF BOUNDARY WALL	3	CR47	0	3	134	124.55	0.4015	1.204	2
48	YARD PLUMBING PRECAST MANHOLE	6	CR48	0	6	104	94.55	0.5288	3.173	4
49	ROOF THERMAL INSULATION & TILING	10	CR49	0	10	145	135.55	0.3689	3.689	4
50	STAIRS HANDRAILS	5	CR50	0	5	161	151.55	0.3299	1.650	2
51	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB	6	CR51	0	6	133	123.55	0.4047	2.428	3
52	CERAMIC TILES	7	CR52	0	7	131	121.55	0.4114	2.880	3
53	GYPSUM BOARDS FALSE CEILING	7	CR53	0	7	131	121.55	0.4114	2.880	3
54	YARD PLUMBING PIPES	10	CR54	0	10	104	94.55	0.5288	5.288	6
55	PAINT PREPARATION (Primer & Putty Coats)	12	CR55	0	12	131	121.55	0.4114	4.936	5
56	WATER TANK & EXPOSED ROOF PIPING	7	CR56	0	7	145	135.55	0.3689	2.582	3
57	YARD ELECTRICAL PIPES & HANDHOLES	7	CR57	0	7	104	94.55	0.5288	3.702	4
58	SANITARY HOUSE CONNECTION	6	CR58	0	6	105	95.55	0.5233	3.140	4
59	ROOF MASTIC & TOUCH-UPS	6	CR59	0	6	148	138.55	0.3609	2.165	3
60	WATER TANK SHED	4	CR60	0	4	154	144.55	0.3459	1.384	2
61	ALUMINUM FRAMES, WINDOWS & DOORS	9	CR61	0	9	131	121.55	0.4114	3.702	4
62	ELECTRICAL BOARDS CONNECTION	4	CR62	0	4	138	128.55	0.3890	1.556	2
63	PAINT, FIRST & SECOND COATS	6	CR63	0	6	134	124.55	0.4015	2.409	3

Table 9.2 - Case 2, Calculation of Min. Quantity of Resources to Complete by August 17, 1988 (Continued).

ACT ID	Activity title	Activity duration	Resource	Resource lag	Resource duration	Taa	Taa - Dcrt	Ria	Sma	Sma
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(7) - 9.45	50 + (Taa - Dcrt)	(9) x (6)	rounded
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
64	YARD EARTH WORKS & PLAIN CONCRETE	10	CR64	0	10	104	94.55	0.5288	5.288	6
65	INTERNAL MAIN CABLES	2	CR65	0	2	151	141.55	0.3532	0.706	1
66	ELECTRICAL HOUSE CONNECTION	3	CR66	0	3	155	145.55	0.3435	1.031	2
67	IRONMONGERY WORKS FOR WOODEN DOORS	3	CR67	0	3	134	124.55	0.4015	1.204	2
68	INTERNAL ELECTRICAL FITTINGS	4	CR68	0	4	133	123.55	0.4047	1.619	2
69	SANITARY FIXTURES & ACCESSORIES	6	CR69	0	6	131	121.55	0.4114	2.468	3
70	ALUMINUM ACCESSORIES	4	CR70	0	4	133	123.55	0.4047	1.619	2
71	BRICK WORKS OF BOUNDARY WALL	9	CR71	0	9	104	94.55	0.5288	4.760	5
72	BOUNDARY WALL CAST IN SITU COPING	6	CR72	0	6	104	94.55	0.5288	3.173	4
73	WATER SUPPLY HOUSE CONNECTION	1	CR73	0	1	138	128.55	0.3890	0.389	1
74	YARD TERRAZZO TILES & MASTIC WORKS	10	CR74	0	10	104	94.55	0.5288	5.288	6
75	FRAMES & FINISHES OF YARD HAND/MANHOLES	5	CR75	0	5	107	97.55	0.5126	2.563	3
76	PLUMBING NETWORKS TESTING	2	CR76	0	2	122	112.55	0.4443	0.889	1
77	ALUMINUM EXTERNAL FALSE CEILING	5	CR77	0	5	104	94.55	0.5288	2.644	3
78	AGRICULTURAL SOIL	3	CR78	0	3	114	104.55	0.4783	1.435	2
79	STEEL GATES INSTALLATION & PAINT UNDERCOATS	4	CR79	0	4	106	96.55	0.5179	2.072	3
80	EXTERNAL ELECTRICAL FITTINGS	1	CR80	0	1	104	94.55	0.5288	0.529	1
81	ELECTRICAL & TELEPHONE NETWORKS TESTING	1	CR81	0	1	112	102.55	0.4876	0.488	1
82	LAST COAT OF PAINT	3	CR82	0	3	104	94.55	0.5288	1.587	2
83	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	4	CR83	0	4	104	94.55	0.5288	2.115	3
84	HOUSE FINAL CLEANING	2	CR84	0	2	104	94.55	0.5288	1.058	2
85	FINAL PAINT & TOUCH-UPS	4	CR85	0	4	104	94.55	0.5288	2.115	3
23	SANDLINE BRICKS CLADDING	21	SCAFFOLD	10	11	104	94.55	0.5288	5.817	6
10	GF COLUMNS	7	SH10	0	9	106	96.55	0.5179	4.661	5
12	GF ROOF	12	SH12	0	24	104	94.55	0.5288	12.692	13
13	FF COLUMNS	7	SH13	0	9	106	96.55	0.5179	4.661	5
15	FF ROOF	12	SH15	0	24	104	94.55	0.5288	12.692	13
16	PENTHOUSE COLUMNS & ROOF	9	SH16	0	21	111	101.55	0.4924	10.340	11
33	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.	24	SH33	18	7	104	94.55	0.5288	3.702	4

SAUD & EBRAHIM ALABDULRAZZAK EST. PRIMAVERA PROJECT PLANNER JAHFA 3 HOUSING PROJECT common act

REPORT DATE 21SEP95 RUN NO. 121 SEVEN SEAS, CONSTRUCTION OF 51 HOUSES START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES DATA DATE 1APR87 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
A	1	1	0		NOTICE TO PROCEED	1APR87	1APR87	1APR87	1APR87	0
B	24	24	0		MOBILIZATION	2APR87	2APR87	2APR87	2APR87	0
Y	18	18	0		CONTRACTOR'S CONTINGENCY	18JUN88	7JUL88	18JUN88	7JUL88	0
Z	30	30	0		HANDOVERS & DEMOBILIZATION	9JUL88	13AUG88	9JUL88	13AUG88	0
211H044A01	1	1	0	01	PLOT CLEARANCE	30APR87	30APR87	30APR87	30APR87	0
211H043A01	1	1	0	02	PLOT CLEARANCE	2MAY87	2MAY87	3MAY87	3MAY87	1
211H042A01	1	1	0	03	PLOT CLEARANCE	3MAY87	3MAY87	4MAY87	4MAY87	1
213H035A01	1	1	0	04	PLOT CLEARANCE	4MAY87	4MAY87	6MAY87	6MAY87	2
213H036A01	1	1	0	05	PLOT CLEARANCE	5MAY87	5MAY87	9MAY87	9MAY87	3
213H037A01	1	1	0	06	PLOT CLEARANCE	6MAY87	6MAY87	10MAY87	10MAY87	3
213H032A01	1	1	0	07	PLOT CLEARANCE	7MAY87	7MAY87	12MAY87	12MAY87	4
213H033A01	1	1	0	08	PLOT CLEARANCE	9MAY87	9MAY87	14MAY87	14MAY87	5
213H034A01	1	1	0	09	PLOT CLEARANCE	10MAY87	10MAY87	16MAY87	16MAY87	5
213H185A01	1	1	0	10	PLOT CLEARANCE	11MAY87	11MAY87	23MAY87	23MAY87	10
213H186A01	1	1	0	11	PLOT CLEARANCE	12MAY87	12MAY87	25MAY87	25MAY87	11
213H187A01	1	1	0	12	PLOT CLEARANCE	13MAY87	13MAY87	26MAY87	26MAY87	11
212H188A01	1	1	0	13	PLOT CLEARANCE	14MAY87	14MAY87	28MAY87	28MAY87	12
212H189A01	1	1	0	14	PLOT CLEARANCE	16MAY87	16MAY87	31MAY87	31MAY87	13
212H190A01	1	1	0	15	PLOT CLEARANCE	17MAY87	17MAY87	1JUN87	1JUN87	13
212H174A01	1	1	0	16	PLOT CLEARANCE	18MAY87	18MAY87	3JUN87	3JUN87	14
212H175A01	1	1	0	17	PLOT CLEARANCE	19MAY87	19MAY87	6JUN87	6JUN87	15
212H176A01	1	1	0	18	PLOT CLEARANCE	20MAY87	20MAY87	7JUN87	7JUN87	15
212H177A01	1	1	0	19	PLOT CLEARANCE	21MAY87	21MAY87	9JUN87	9JUN87	16
212H178A01	1	1	0	20	PLOT CLEARANCE	23MAY87	23MAY87	11JUN87	11JUN87	17
214H031A01	1	1	0	21	PLOT CLEARANCE	24MAY87	24MAY87	13JUN87	13JUN87	17
214H030A01	1	1	0	22	PLOT CLEARANCE	25MAY87	25MAY87	15JUN87	15JUN87	18
214H029A01	1	1	0	23	PLOT CLEARANCE	26MAY87	26MAY87	17JUN87	17JUN87	19
214H028A01	1	1	0	24	PLOT CLEARANCE	27MAY87	27MAY87	18JUN87	18JUN87	19
215H027A01	1	1	0	25	PLOT CLEARANCE	28MAY87	28MAY87	21JUN87	21JUN87	20
215H026A01	1	1	0	26	PLOT CLEARANCE	30MAY87	30MAY87	23JUN87	23JUN87	21
215H025A01	1	1	0	27	PLOT CLEARANCE	31MAY87	31MAY87	24JUN87	24JUN87	21
215H024A01	1	1	0	28	PLOT CLEARANCE	1JUN87	1JUN87	27JUN87	27JUN87	22
215H023A01	1	1	0	29	PLOT CLEARANCE	2JUN87	2JUN87	29JUN87	29JUN87	23
215H022A01	1	1	0	30	PLOT CLEARANCE	3JUN87	3JUN87	30JUN87	30JUN87	23
216H021A01	1	1	0	31	PLOT CLEARANCE	4JUN87	4JUN87	7JUL87	7JUL87	28
216H020A01	1	1	0	32	PLOT CLEARANCE	6JUN87	6JUN87	9JUL87	9JUL87	29
216H019A01	1	1	0	33	PLOT CLEARANCE	7JUN87	7JUN87	11JUL87	11JUL87	29
216H018A01	1	1	0	34	PLOT CLEARANCE	8JUN87	8JUN87	13JUL87	13JUL87	30
217H017A01	1	1	0	35	PLOT CLEARANCE	9JUN87	9JUN87	15JUL87	15JUL87	31
217H016A01	1	1	0	36	PLOT CLEARANCE	10JUN87	10JUN87	16JUL87	16JUL87	31
218H015A01	1	1	0	37	PLOT CLEARANCE	11JUN87	11JUN87	19JUL87	19JUL87	32
218H014A01	1	1	0	38	PLOT CLEARANCE	13JUN87	13JUN87	21JUL87	21JUL87	33
218H013A01	1	1	0	39	PLOT CLEARANCE	14JUN87	14JUN87	22JUL87	22JUL87	33
219H012A01	1	1	0	40	PLOT CLEARANCE	15JUN87	15JUN87	25JUL87	25JUL87	34
219H011A01	1	1	0	41	PLOT CLEARANCE	16JUN87	16JUN87	27JUL87	27JUL87	35
219H010A01	1	1	0	42	PLOT CLEARANCE	17JUN87	17JUN87	28JUL87	28JUL87	35
220H009A01	1	1	0	43	PLOT CLEARANCE	18JUN87	18JUN87	30JUL87	30JUL87	36
220H008A01	1	1	0	44	PLOT CLEARANCE	20JUN87	20JUN87	2AUG87	2AUG87	37
220H007A01	1	1	0	45	PLOT CLEARANCE	21JUN87	21JUN87	3AUG87	3AUG87	37
220H006A01	1	1	0	46	PLOT CLEARANCE	22JUN87	22JUN87	5AUG87	5AUG87	38
220H005A01	1	1	0	47	PLOT CLEARANCE	23JUN87	23JUN87	8AUG87	8AUG87	39
220H004A01	1	1	0	48	PLOT CLEARANCE	24JUN87	24JUN87	9AUG87	9AUG87	39
221H003A01	1	1	0	49	PLOT CLEARANCE	25JUN87	25JUN87	18AUG87	18AUG87	46
221H002A01	1	1	0	50	PLOT CLEARANCE	27JUN87	27JUN87	20AUG87	20AUG87	47
221H001A01	1	1	0	51	PLOT CLEARANCE	28JUN87	28JUN87	22AUG87	22AUG87	47
211H044A02	5	5	0	01	EXCAVATION & LAYOUT	2MAY87	6MAY87	2MAY87	6MAY87	0
211H043A02	5	5	0	02	EXCAVATION & LAYOUT	3MAY87	7MAY87	4MAY87	9MAY87	1
211H042A02	5	5	0	03	EXCAVATION & LAYOUT	4MAY87	9MAY87	5MAY87	10MAY87	1
213H035A02	5	5	0	04	EXCAVATION & LAYOUT	7MAY87	12MAY87	7MAY87	12MAY87	0
213H036A02	5	5	0	05	EXCAVATION & LAYOUT	9MAY87	13MAY87	10MAY87	14MAY87	1
213H037A02	5	5	0	06	EXCAVATION & LAYOUT	10MAY87	14MAY87	11MAY87	16MAY87	1
213H032A02	5	5	0	07	EXCAVATION & LAYOUT	13MAY87	18MAY87	13MAY87	18MAY87	0
213H033A02	5	5	0	08	EXCAVATION & LAYOUT	14MAY87	19MAY87	17MAY87	21MAY87	2
213H034A02	5	5	0	09	EXCAVATION & LAYOUT	16MAY87	20MAY87	17MAY87	21MAY87	1
213H185A02	5	5	0	10	EXCAVATION & LAYOUT	19MAY87	24MAY87	24MAY87	28MAY87	4
213H186A02	5	5	0	11	EXCAVATION & LAYOUT	20MAY87	25MAY87	26MAY87	31MAY87	5
213H187A02	5	5	0	12	EXCAVATION & LAYOUT	21MAY87	26MAY87	27MAY87	1JUN87	5
212H188A02	5	5	0	13	EXCAVATION & LAYOUT	25MAY87	30MAY87	30MAY87	3JUN87	4
212H189A02	5	5	0	14	EXCAVATION & LAYOUT	26MAY87	31MAY87	1JUN87	6JUN87	5
212H190A02	5	5	0	15	EXCAVATION & LAYOUT	27MAY87	31MAY87	2JUN87	7JUN87	5
212H174A02	5	5	0	16	EXCAVATION & LAYOUT	31MAY87	4JUN87	4JUN87	9JUN87	4
212H175A02	5	5	0	17	EXCAVATION & LAYOUT	1JUN87	5JUN87	5JUN87	11JUN87	5
212H176A02	5	5	0	18	EXCAVATION & LAYOUT	2JUN87	7JUN87	8JUN87	13JUN87	5
212H177A02	5	5	0	19	EXCAVATION & LAYOUT	6JUN87	10JUN87	10JUN87	15JUN87	4
212H178A02	5	5	0	20	EXCAVATION & LAYOUT	7JUN87	11JUN87	13JUN87	17JUN87	5
214H031A02	5	5	0	21	EXCAVATION & LAYOUT	8JUN87	13JUN87	14JUN87	18JUN87	5
214H030A02	5	5	0	22	EXCAVATION & LAYOUT	11JUN87	16JUN87	16JUN87	21JUN87	4
214H029A02	5	5	0	23	EXCAVATION & LAYOUT	13JUN87	17JUN87	18JUN87	23JUN87	5
214H028A02	5	5	0	24	EXCAVATION & LAYOUT	14JUN87	18JUN87	20JUN87	24JUN87	5
215H027A02	5	5	0	25	EXCAVATION & LAYOUT	17JUN87	22JUN87	22JUN87	27JUN87	4
215H026A02	5	5	0	26	EXCAVATION & LAYOUT	18JUN87	23JUN87	26JUN87	29JUN87	5
215H025A02	5	5	0	27	EXCAVATION & LAYOUT	20JUN87	24JUN87	25JUN87	30JUN87	5
215H024A02	5	5	0	28	EXCAVATION & LAYOUT	23JUN87	28JUN87	28JUN87	2JUL87	4
215H023A02	5	5	0	29	EXCAVATION & LAYOUT	24JUN87	29JUN87	1JUL87	6JUL87	6
215H022A02	5	5	0	30	EXCAVATION & LAYOUT	25JUN87	30JUN87	1JUL87	6JUL87	5
216H021A02	5	5	0	31	EXCAVATION & LAYOUT	29JUN87	4JUL87	8JUL87	13JUL87	8
216H020A02	5	5	0	32	EXCAVATION & LAYOUT	30JUN87	5JUL87	11JUL87	15JUL87	9
216H019A02	5	5	0	33	EXCAVATION & LAYOUT	1JUL87	6JUL87	12JUL87	16JUL87	9
216H018A02	5	5	0	34	EXCAVATION & LAYOUT	5JUL87	9JUL87	14JUL87	19JUL87	8
217H017A02	5	5	0	35	EXCAVATION & LAYOUT	6JUL87	11JUL87	16JUL87	21JUL87	9
217H016A02	5	5	0	36	EXCAVATION & LAYOUT	7JUL87	12JUL87	18JUL87	22JUL87	9
218H015A02	5	5	0	37	EXCAVATION & LAYOUT	11JUL87	15JUL87	20JUL87	25JUL87	8
218H014A02	5	5	0	38	EXCAVATION & LAYOUT	12JUL87	16JUL87	22JUL87	27JUL87	9
218H013A02	5	5	0	39	EXCAVATION & LAYOUT	13JUL87	18JUL87	23JUL87	28JUL87	9
219H012A02	5	5	0	40	EXCAVATION & LAYOUT	16JUL87	21JUL87	26JUL87	30JUL87	8
219H011A02	5	5	0	41	EXCAVATION & LAYOUT	18JUL87	22JUL87	28JUL87	2AUG87	9

Figure 9.13 - Case 2, Baseline Schedule.

REPORT DATE 21SEP95 RUN NO 121

SEVEN SEAS. CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG85

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 2

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
219H010A02	5	5	0	42	EXCAVATION & LAYOUT	19JUL87	23JUL87	29JUL87	3AUG87	9
220H009A02	5	5	0	43	EXCAVATION & LAYOUT	22JUL87	27JUL87	1AUG87	5AUG87	8
220H008A02	5	5	0	44	EXCAVATION & LAYOUT	23JUL87	28JUL87	3AUG87	8AUG87	9
220H007A02	5	5	0	45	EXCAVATION & LAYOUT	25JUL87	29JUL87	4AUG87	9AUG87	9
220H006A02	5	5	0	46	EXCAVATION & LAYOUT	28JUL87	2AUG87	6AUG87	11AUG87	8
220H005A02	5	5	0	47	EXCAVATION & LAYOUT	29JUL87	3AUG87	10AUG87	15AUG87	10
220H004A02	5	5	0	48	EXCAVATION & LAYOUT	30JUL87	4AUG87	10AUG87	15AUG87	9
221H003A02	5	5	0	49	EXCAVATION & LAYOUT	3AUG87	8AUG87	19AUG87	24AUG87	14
221H002A02	5	5	0	50	EXCAVATION & LAYOUT	4AUG87	9AUG87	23AUG87	27AUG87	16
221H001A02	5	5	0	51	EXCAVATION & LAYOUT	5AUG87	10AUG87	23AUG87	27AUG87	15
211H044A03	3	3	0	01	PLAIN CONCRETE FOR FOOTINGS	7MAY87	10MAY87	9MAY87	11MAY87	1
211H043A03	3	3	0	02	PLAIN CONCRETE FOR FOOTINGS	9MAY87	11MAY87	10MAY87	12MAY87	1
211H042A03	3	3	0	03	PLAIN CONCRETE FOR FOOTINGS	11MAY87	13MAY87	12MAY87	14MAY87	1
213H035A03	3	3	0	04	PLAIN CONCRETE FOR FOOTINGS	13MAY87	16MAY87	13MAY87	16MAY87	0
213H036A03	3	3	0	05	PLAIN CONCRETE FOR FOOTINGS	14MAY87	17MAY87	16MAY87	18MAY87	1
213H037A03	3	3	0	06	PLAIN CONCRETE FOR FOOTINGS	17MAY87	19MAY87	19MAY87	21MAY87	2
213H032A03	3	3	0	07	PLAIN CONCRETE FOR FOOTINGS	19MAY87	21MAY87	19MAY87	21MAY87	0
213H033A03	3	3	0	08	PLAIN CONCRETE FOR FOOTINGS	20MAY87	23MAY87	23MAY87	25MAY87	2
213H034A03	3	3	0	09	PLAIN CONCRETE FOR FOOTINGS	23MAY87	25MAY87	23MAY87	25MAY87	0
323H185A03	3	3	0	10	PLAIN CONCRETE FOR FOOTINGS	25MAY87	27MAY87	31MAY87	2JUN87	5
323H186A03	3	3	0	11	PLAIN CONCRETE FOR FOOTINGS	26MAY87	28MAY87	2JUN87	4JUN87	6
323H187A03	3	3	0	12	PLAIN CONCRETE FOR FOOTINGS	28MAY87	31MAY87	4JUN87	7JUN87	6
322H188A03	3	3	0	13	PLAIN CONCRETE FOR FOOTINGS	31MAY87	2JUN87	6JUN87	9JUN87	5
322H189A03	3	3	0	14	PLAIN CONCRETE FOR FOOTINGS	1JUN87	3JUN87	8JUN87	10JUN87	6
322H190A03	3	3	0	15	PLAIN CONCRETE FOR FOOTINGS	3JUN87	6JUN87	9JUN87	11JUN87	5
321H174A03	3	3	0	16	PLAIN CONCRETE FOR FOOTINGS	6JUN87	8JUN87	11JUN87	14JUN87	5
321H175A03	3	3	0	17	PLAIN CONCRETE FOR FOOTINGS	7JUN87	9JUN87	14JUN87	16JUN87	6
320H176A03	3	3	0	18	PLAIN CONCRETE FOR FOOTINGS	9JUN87	11JUN87	15JUN87	17JUN87	5
320H177A03	3	3	0	19	PLAIN CONCRETE FOR FOOTINGS	11JUN87	14JUN87	17JUN87	20JUN87	5
320H178A03	3	3	0	20	PLAIN CONCRETE FOR FOOTINGS	13JUN87	15JUN87	18JUN87	21JUN87	5
214H031A03	3	3	0	21	PLAIN CONCRETE FOR FOOTINGS	15JUN87	17JUN87	21JUN87	23JUN87	5
214H030A03	3	3	0	22	PLAIN CONCRETE FOR FOOTINGS	17JUN87	20JUN87	23JUN87	25JUN87	5
214H029A03	3	3	0	23	PLAIN CONCRETE FOR FOOTINGS	18JUN87	21JUN87	24JUN87	27JUN87	5
214H028A03	3	3	0	24	PLAIN CONCRETE FOR FOOTINGS	21JUN87	23JUN87	27JUN87	29JUN87	5
215H027A03	3	3	0	25	PLAIN CONCRETE FOR FOOTINGS	23JUN87	25JUN87	28JUN87	30JUN87	4
215H026A03	3	3	0	26	PLAIN CONCRETE FOR FOOTINGS	24JUN87	27JUN87	30JUN87	2JUL87	5
215H025A03	3	3	0	27	PLAIN CONCRETE FOR FOOTINGS	27JUN87	29JUN87	4JUL87	6JUL87	6
215H024A03	3	3	0	28	PLAIN CONCRETE FOR FOOTINGS	29JUN87	1JUL87	4JUL87	6JUL87	4
215H023A03	3	3	0	29	PLAIN CONCRETE FOR FOOTINGS	30JUN87	2JUL87	7JUL87	9JUL87	6
215H022A03	3	3	0	30	PLAIN CONCRETE FOR FOOTINGS	2JUL87	5JUL87	7JUL87	9JUL87	4
216H021A03	3	3	0	31	PLAIN CONCRETE FOR FOOTINGS	5JUL87	7JUL87	15JUL87	18JUL87	9
216H020A03	3	3	0	32	PLAIN CONCRETE FOR FOOTINGS	6JUL87	8JUL87	16JUL87	19JUL87	9
216H019A03	3	3	0	33	PLAIN CONCRETE FOR FOOTINGS	8JUL87	11JUL87	19JUL87	21JUL87	9
216H018A03	3	3	0	34	PLAIN CONCRETE FOR FOOTINGS	11JUL87	13JUL87	20JUL87	22JUL87	8
217H017A03	3	3	0	35	PLAIN CONCRETE FOR FOOTINGS	12JUL87	14JUL87	23JUL87	26JUL87	10
217H016A03	3	3	0	36	PLAIN CONCRETE FOR FOOTINGS	14JUL87	16JUL87	25JUL87	27JUL87	9
218H015A03	3	3	0	37	PLAIN CONCRETE FOR FOOTINGS	16JUL87	19JUL87	27JUL87	29JUL87	9
218H014A03	3	3	0	38	PLAIN CONCRETE FOR FOOTINGS	18JUL87	20JUL87	28JUL87	30JUL87	9
218H013A03	3	3	0	39	PLAIN CONCRETE FOR FOOTINGS	20JUL87	22JUL87	30JUL87	2AUG87	9
219H012A03	3	3	0	40	PLAIN CONCRETE FOR FOOTINGS	22JUL87	25JUL87	2AUG87	4AUG87	9
219H011A03	3	3	0	41	PLAIN CONCRETE FOR FOOTINGS	23JUL87	26JUL87	3AUG87	5AUG87	9
219H010A03	3	3	0	42	PLAIN CONCRETE FOR FOOTINGS	26JUL87	28JUL87	5AUG87	8AUG87	9
220H009A03	3	3	0	43	PLAIN CONCRETE FOR FOOTINGS	28JUL87	30JUL87	6AUG87	9AUG87	8
220H008A03	3	3	0	44	PLAIN CONCRETE FOR FOOTINGS	29JUL87	1AUG87	9AUG87	11AUG87	9
220H007A03	3	3	0	45	PLAIN CONCRETE FOR FOOTINGS	1AUG87	3AUG87	12AUG87	15AUG87	10
220H006A03	3	3	0	46	PLAIN CONCRETE FOR FOOTINGS	3AUG87	5AUG87	12AUG87	15AUG87	8
220H005A03	3	3	0	47	PLAIN CONCRETE FOR FOOTINGS	4AUG87	6AUG87	16AUG87	18AUG87	10
220H004A03	3	3	0	48	PLAIN CONCRETE FOR FOOTINGS	6AUG87	9AUG87	16AUG87	18AUG87	8
221H003A03	3	3	0	49	PLAIN CONCRETE FOR FOOTINGS	9AUG87	11AUG87	25AUG87	27AUG87	14
221H002A03	3	3	0	50	PLAIN CONCRETE FOR FOOTINGS	10AUG87	12AUG87	29AUG87	31AUG87	16
221H001A03	3	3	0	51	PLAIN CONCRETE FOR FOOTINGS	12AUG87	15AUG87	29AUG87	31AUG87	14
211H044A04	6	6	0	01	R.C. FOOTINGS	11MAY87	17MAY87	12MAY87	18MAY87	1
211H043A04	6	6	0	02	R.C. FOOTINGS	12MAY87	18MAY87	17MAY87	23MAY87	4
211H042A04	6	6	0	03	R.C. FOOTINGS	14MAY87	20MAY87	17MAY87	23MAY87	2
213H035A04	6	6	0	04	R.C. FOOTINGS	17MAY87	23MAY87	17MAY87	23MAY87	0
213H036A04	6	6	0	05	R.C. FOOTINGS	18MAY87	24MAY87	19MAY87	25MAY87	1
213H037A04	6	6	0	06	R.C. FOOTINGS	20MAY87	26MAY87	26MAY87	1JUN87	5
213H032A04	6	6	0	07	R.C. FOOTINGS	23MAY87	29MAY87	26MAY87	1JUN87	3
213H033A04	6	6	0	08	R.C. FOOTINGS	24MAY87	30MAY87	26MAY87	1JUN87	2
213H034A04	6	6	0	09	R.C. FOOTINGS	26MAY87	1JUN87	26MAY87	1JUN87	0
323H185A04	6	6	0	10	R.C. FOOTINGS	28MAY87	3JUN87	3JUN87	9JUN87	5
323H186A04	6	6	0	11	R.C. FOOTINGS	30MAY87	4JUN87	6JUN87	11JUN87	6
323H187A04	6	6	0	12	R.C. FOOTINGS	1JUN87	7JUN87	8JUN87	14JUN87	6
322H188A04	6	6	0	13	R.C. FOOTINGS	3JUN87	9JUN87	10JUN87	16JUN87	6
322H189A04	6	6	0	14	R.C. FOOTINGS	4JUN87	10JUN87	13JUN87	18JUN87	7
322H190A04	6	6	0	15	R.C. FOOTINGS	7JUN87	13JUN87	13JUN87	18JUN87	5
321H174A04	6	6	0	16	R.C. FOOTINGS	9JUN87	15JUN87	15JUN87	21JUN87	5
321H175A04	6	6	0	17	R.C. FOOTINGS	10JUN87	16JUN87	17JUN87	23JUN87	6
320H176A04	6	6	0	18	R.C. FOOTINGS	13JUN87	18JUN87	20JUN87	25JUN87	6
320H177A04	6	6	0	19	R.C. FOOTINGS	15JUN87	21JUN87	22JUN87	28JUN87	6
320H178A04	6	6	0	20	R.C. FOOTINGS	16JUN87	22JUN87	22JUN87	28JUN87	5
214H031A04	6	6	0	21	R.C. FOOTINGS	18JUN87	24JUN87	24JUN87	30JUN87	5
214H030A04	6	6	0	22	R.C. FOOTINGS	21JUN87	27JUN87	27JUN87	2JUL87	5
214H029A04	6	6	0	23	R.C. FOOTINGS	22JUN87	28JUN87	1JUL87	7JUL87	8
214H028A04	6	6	0	24	R.C. FOOTINGS	24JUN87	30JUN87	1JUL87	7JUL87	6
215H027A04	6	6	0	25	R.C. FOOTINGS	27JUN87	2JUL87	1JUL87	7JUL87	4
215H026A04	6	6	0	26	R.C. FOOTINGS	28JUN87	4JUL87	4JUL87	9JUL87	5
215H025A04	6	6	0	27	R.C. FOOTINGS	30JUN87	6JUL87	11JUL87	16JUL87	9
215H024A04	6	6	0	28	R.C. FOOTINGS	2JUL87	8JUL87	11JUL87	16JUL87	7
215H023A04	6	6	0	29	R.C. FOOTINGS	4JUL87	9JUL87	11JUL87	16JUL87	6
215H022A04	6	6	0	30	R.C. FOOTINGS	6JUL87	12JUL87	11JUL87	16JUL87	4
216H021A04	6	6	0	31	R.C. FOOTINGS	8JUL87	14JUL87	20JUL87	26JUL87	10
216H020A04	6	6	0	32	R.C. FOOTINGS	9JUL87	15JUL87	22JUL87	28JUL87	11
216H019A04	6	6	0	33	R.C. FOOTINGS	12JUL87	18JUL87	22JUL87	28JUL87	9
216H018A04	6	6	0	34	R.C. FOOTINGS	14JUL87	20JUL87	23JUL87	29JUL87	8
217H017A04	6	6	0	35	R.C. FOOTINGS	15JUL87	21JUL87	27JUL87	2AUG87	10

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
217H016A04	6	6	0	36	R.C. FOOTINGS	18JUL87	23JUL87	29JUL87	4AUG87	10
218H015A04	6	6	0	37	R.C. FOOTINGS	20JUL87	26JUL87	1AUG87	6AUG87	10
218H014A04	6	6	0	38	R.C. FOOTINGS	21JUL87	27JUL87	1AUG87	6AUG87	9
218H013A04	6	6	0	39	R.C. FOOTINGS	23JUL87	29JUL87	3AUG87	9AUG87	9
219H012A04	6	6	0	40	R.C. FOOTINGS	26JUL87	1AUG87	5AUG87	11AUG87	9
219H011A04	6	6	0	41	R.C. FOOTINGS	27JUL87	2AUG87	10AUG87	16AUG87	12
219H010A04	6	6	0	42	R.C. FOOTINGS	29JUL87	4AUG87	10AUG87	16AUG87	10
220H009A04	6	6	0	43	R.C. FOOTINGS	1AUG87	6AUG87	10AUG87	16AUG87	8
220H008A04	6	6	0	44	R.C. FOOTINGS	2AUG87	8AUG87	12AUG87	18AUG87	9
220H007A04	6	6	0	45	R.C. FOOTINGS	4AUG87	10AUG87	19AUG87	25AUG87	13
220H006A04	6	6	0	46	R.C. FOOTINGS	6AUG87	12AUG87	19AUG87	25AUG87	11
220H005A04	6	6	0	47	R.C. FOOTINGS	8AUG87	13AUG87	19AUG87	25AUG87	10
220H004A04	6	6	0	48	R.C. FOOTINGS	10AUG87	16AUG87	19AUG87	25AUG87	8
221H003A04	6	6	0	49	R.C. FOOTINGS	12AUG87	18AUG87	1SEP87	7SEP87	17
221H002A04	6	6	0	50	R.C. FOOTINGS	13AUG87	19AUG87	1SEP87	7SEP87	16
221H001A04	6	6	0	51	R.C. FOOTINGS	16AUG87	22AUG87	1SEP87	7SEP87	14
211H044A05	8	8	0	01	COLUMN NECKS	18MAY87	26MAY87	24MAY87	1JUN87	5
211H043A05	8	8	0	02	COLUMN NECKS	19MAY87	27MAY87	24MAY87	1JUN87	4
211H042A05	8	8	0	03	COLUMN NECKS	21MAY87	30MAY87	24MAY87	1JUN87	2
213H035A05	8	8	0	04	COLUMN NECKS	24MAY87	1JUN87	24MAY87	1JUN87	0
213H034A05	8	8	0	05	COLUMN NECKS	25MAY87	2JUN87	1JUN87	9JUN87	6
213H033A05	8	8	0	06	COLUMN NECKS	27MAY87	4JUN87	2JUN87	10JUN87	5
213H032A05	8	8	0	07	COLUMN NECKS	30MAY87	7JUN87	2JUN87	10JUN87	3
213H031A05	8	8	0	08	COLUMN NECKS	31MAY87	8JUN87	2JUN87	10JUN87	2
213H030A05	8	8	0	09	COLUMN NECKS	2JUN87	10JUN87	2JUN87	10JUN87	0
323H185A05	8	8	0	10	COLUMN NECKS	4JUN87	13JUN87	10JUN87	18JUN87	5
323H186A05	8	8	0	11	COLUMN NECKS	6JUN87	14JUN87	15JUN87	23JUN87	8
323H187A05	8	8	0	12	COLUMN NECKS	8JUN87	16JUN87	15JUN87	23JUN87	6
322H188A05	8	8	0	13	COLUMN NECKS	10JUN87	18JUN87	20JUN87	28JUN87	7
322H189A05	8	8	0	14	COLUMN NECKS	11JUN87	20JUN87	20JUN87	28JUN87	8
322H190A05	8	8	0	15	COLUMN NECKS	14JUN87	22JUN87	20JUN87	28JUN87	5
321H174A05	8	8	0	16	COLUMN NECKS	16JUN87	24JUN87	28JUN87	6JUL87	10
321H175A05	8	8	0	17	COLUMN NECKS	17JUN87	25JUN87	28JUN87	6JUL87	9
320H176A05	8	8	0	18	COLUMN NECKS	20JUN87	28JUN87	29JUN87	7JUL87	8
320H177A05	8	8	0	19	COLUMN NECKS	22JUN87	30JUN87	29JUN87	7JUL87	6
320H178A05	8	8	0	20	COLUMN NECKS	23JUN87	1JUL87	29JUN87	7JUL87	5
214H031A05	8	8	0	21	COLUMN NECKS	25JUN87	4JUL87	8JUL87	16JUL87	11
214H030A05	8	8	0	22	COLUMN NECKS	28JUN87	6JUL87	8JUL87	16JUL87	9
214H029A05	8	8	0	23	COLUMN NECKS	29JUN87	7JUL87	8JUL87	16JUL87	8
214H028A05	8	8	0	24	COLUMN NECKS	1JUL87	9JUL87	8JUL87	16JUL87	6
215H027A05	8	8	0	25	COLUMN NECKS	4JUL87	12JUL87	8JUL87	16JUL87	4
215H026A05	8	8	0	26	COLUMN NECKS	5JUL87	13JUL87	18JUL87	26JUL87	11
215H025A05	8	8	0	27	COLUMN NECKS	7JUL87	15JUL87	18JUL87	26JUL87	9
215H024A05	8	8	0	28	COLUMN NECKS	9JUL87	18JUL87	18JUL87	26JUL87	7
215H023A05	8	8	0	29	COLUMN NECKS	11JUL87	19JUL87	18JUL87	26JUL87	6
215H022A05	8	8	0	30	COLUMN NECKS	13JUL87	21JUL87	18JUL87	26JUL87	4
216H021A05	8	8	0	31	COLUMN NECKS	15JUL87	23JUL87	29JUL87	6AUG87	12
216H020A05	8	8	0	32	COLUMN NECKS	16JUL87	25JUL87	29JUL87	6AUG87	11
216H019A05	8	8	0	33	COLUMN NECKS	19JUL87	27JUL87	29JUL87	6AUG87	9
216H018A05	8	8	0	34	COLUMN NECKS	21JUL87	29JUL87	30JUL87	8AUG87	8
217H017A05	8	8	0	35	COLUMN NECKS	22JUL87	30JUL87	8AUG87	16AUG87	14
217H016A05	8	8	0	36	COLUMN NECKS	25JUL87	2AUG87	8AUG87	16AUG87	12
218H015A05	8	8	0	37	COLUMN NECKS	27JUL87	4AUG87	8AUG87	16AUG87	10
218H014A05	8	8	0	38	COLUMN NECKS	28JUL87	5AUG87	8AUG87	16AUG87	9
218H013A05	8	8	0	39	COLUMN NECKS	30JUL87	8AUG87	12AUG87	20AUG87	11
219H012A05	8	8	0	40	COLUMN NECKS	2AUG87	10AUG87	17AUG87	25AUG87	13
219H011A05	8	8	0	41	COLUMN NECKS	3AUG87	11AUG87	17AUG87	25AUG87	12
219H010A05	8	8	0	42	COLUMN NECKS	5AUG87	13AUG87	17AUG87	25AUG87	10
220H009A05	8	8	0	43	COLUMN NECKS	8AUG87	16AUG87	17AUG87	25AUG87	8
220H008A05	8	8	0	44	COLUMN NECKS	9AUG87	17AUG87	26AUG87	3SEP87	15
220H007A05	8	8	0	45	COLUMN NECKS	11AUG87	19AUG87	26AUG87	3SEP87	13
220H006A05	8	8	0	46	COLUMN NECKS	13AUG87	22AUG87	26AUG87	3SEP87	11
220H005A05	8	8	0	47	COLUMN NECKS	15AUG87	23AUG87	26AUG87	3SEP87	10
220H004A05	8	8	0	48	COLUMN NECKS	17AUG87	25AUG87	26AUG87	3SEP87	8
221H003A05	8	8	0	49	COLUMN NECKS	19AUG87	27AUG87	8SEP87	16SEP87	17
221H002A05	8	8	0	50	COLUMN NECKS	20AUG87	29AUG87	8SEP87	16SEP87	16
221H001A05	8	8	0	51	COLUMN NECKS	23AUG87	31AUG87	8SEP87	16SEP87	14
211****A06	8	8	0	01	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	31MAY87	8JUN87	4JUN87	13JUN87	4
213****A06	8	8	0	04	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	11JUN87	20JUN87	11JUN87	20JUN87	0
323****A06	8	8	0	10	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	17JUN87	25JUN87	24JUN87	2JUL87	6
322****A06	8	8	0	13	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	23JUN87	1JUL87	1JUL87	9JUL87	7
321****A06	8	8	0	16	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	27JUN87	5JUL87	1JUL87	15JUL87	9
320****A06	8	8	0	18	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	2JUL87	11JUL87	12JUL87	20JUL87	8
214****A06	8	8	0	21	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	11JUL87	19JUL87	19JUL87	27JUL87	7
215****A06	8	8	0	25	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	13JUL87	21JUL87	27JUL87	4AUG87	4
216****A06	8	8	0	31	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	30JUL87	8AUG87	9AUG87	17AUG87	8
217****A06	8	8	0	35	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	3AUG87	11AUG87	18AUG87	26AUG87	13
218****A06	8	8	0	37	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	5AUG87	13AUG87	17AUG87	25AUG87	10
219****A06	8	8	0	40	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	8AUG87	16AUG87	17AUG87	25AUG87	8
220****A06	8	8	0	43	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	9AUG87	17AUG87	26AUG87	3SEP87	15
221****A06	8	8	0	49	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	11AUG87	19AUG87	26AUG87	3SEP87	13
211H044A07	4	4	0	01	PLAIN CONCRETE UNDER GROUND BEAMS	15AUG87	23AUG87	29AUG87	6SEP87	12
211H043A07	4	4	0	02	PLAIN CONCRETE UNDER GROUND BEAMS	16AUG87	24AUG87	29AUG87	6SEP87	8
213H035A07	4	4	0	03	PLAIN CONCRETE UNDER GROUND BEAMS	1SEP87	9SEP87	17SEP87	26SEP87	14
213H034A07	4	4	0	04	PLAIN CONCRETE UNDER GROUND BEAMS	9JUN87	13JUN87	14JUN87	17JUN87	4
213H033A07	4	4	0	05	PLAIN CONCRETE UNDER GROUND BEAMS	9JUN87	13JUN87	16JUN87	20JUN87	6
213H032A07	4	4	0	06	PLAIN CONCRETE UNDER GROUND BEAMS	9JUN87	13JUN87	18JUN87	22JUN87	8
213H031A07	4	4	0	07	PLAIN CONCRETE UNDER GROUND BEAMS	21JUN87	24JUN87	21JUN87	24JUN87	0
213H030A07	4	4	0	08	PLAIN CONCRETE UNDER GROUND BEAMS	21JUN87	24JUN87	23JUN87	27JUN87	2
213H029A07	4	4	0	09	PLAIN CONCRETE UNDER GROUND BEAMS	21JUN87	24JUN87	25JUN87	29JUN87	4
213H028A07	4	4	0	10	PLAIN CONCRETE UNDER GROUND BEAMS	25JUN87	29JUN87	28JUN87	1JUL87	2
213H027A07	4	4	0	11	PLAIN CONCRETE UNDER GROUND BEAMS	25JUN87	29JUN87	30JUN87	4JUL87	4
213H026A07	4	4	0	12	PLAIN CONCRETE UNDER GROUND BEAMS	25JUN87	29JUN87	1JUL87	5JUL87	5
213H025A07	4	4	0	13	PLAIN CONCRETE UNDER GROUND BEAMS	30JUN87	4JUL87	4JUL87	7JUL87	3
213H024A07	4	4	0	14	PLAIN CONCRETE UNDER GROUND BEAMS	30JUN87	4JUL87	6JUL87	9JUL87	5
213H023A07	4	4	0	15	PLAIN CONCRETE UNDER GROUND BEAMS	30JUN87	4JUL87	8JUL87	12JUL87	7
213H022A07	4	4	0	16	PLAIN CONCRETE UNDER GROUND BEAMS	5JUL87	8JUL87	11JUL87	14JUL87	5
213H021A07	4	4	0	17	PLAIN CONCRETE UNDER GROUND BEAMS	5JUL87	8JUL87	13JUL87	16JUL87	7
213H020A07	4	4	0	18	PLAIN CONCRETE UNDER GROUND BEAMS	5JUL87	8JUL87	15JUL87	19JUL87	9

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
321K174A07	4	4	0	16	PLAIN CONCRETE UNDER GROUND BEAMS	9JUL87	13JUL87	16JUL87	20JUL87	6
321K175A07	4	4	0	17	PLAIN CONCRETE UNDER GROUND BEAMS	9JUL87	13JUL87	19JUL87	22JUL87	8
320K176A07	4	4	0	18	PLAIN CONCRETE UNDER GROUND BEAMS	12JUL87	15JUL87	21JUL87	25JUL87	8
320K177A07	4	4	0	19	PLAIN CONCRETE UNDER GROUND BEAMS	14JUL87	18JUL87	23JUL87	27JUL87	8
320K178A07	4	4	0	20	PLAIN CONCRETE UNDER GROUND BEAMS	14JUL87	18JUL87	26JUL87	29JUL87	10
214H031A07	4	4	0	21	PLAIN CONCRETE UNDER GROUND BEAMS	20JUL87	23JUL87	28JUL87	1AUG87	7
214H030A07	4	4	0	22	PLAIN CONCRETE UNDER GROUND BEAMS	20JUL87	23JUL87	30JUL87	3AUG87	9
214H029A07	4	4	0	23	PLAIN CONCRETE UNDER GROUND BEAMS	20JUL87	23JUL87	1AUG87	4AUG87	10
214H028A07	4	4	0	24	PLAIN CONCRETE UNDER GROUND BEAMS	25JUL87	28JUL87	3AUG87	6AUG87	8
215H027A07	4	4	0	25	PLAIN CONCRETE UNDER GROUND BEAMS	1AUG87	4AUG87	5AUG87	9AUG87	4
215H026A07	4	4	0	26	PLAIN CONCRETE UNDER GROUND BEAMS	1AUG87	4AUG87	8AUG87	11AUG87	6
215H025A07	4	4	0	27	PLAIN CONCRETE UNDER GROUND BEAMS	1AUG87	4AUG87	10AUG87	13AUG87	8
215H024A07	4	4	0	28	PLAIN CONCRETE UNDER GROUND BEAMS	5AUG87	9AUG87	12AUG87	16AUG87	6
215H023A07	4	4	0	29	PLAIN CONCRETE UNDER GROUND BEAMS	5AUG87	9AUG87	15AUG87	18AUG87	8
215H022A07	4	4	0	30	PLAIN CONCRETE UNDER GROUND BEAMS	5AUG87	9AUG87	16AUG87	19AUG87	9
216H021A07	4	4	0	31	PLAIN CONCRETE UNDER GROUND BEAMS	10AUG87	13AUG87	18AUG87	22AUG87	7
216H020A07	4	4	0	32	PLAIN CONCRETE UNDER GROUND BEAMS	10AUG87	13AUG87	20AUG87	24AUG87	9
216H019A07	4	4	0	33	PLAIN CONCRETE UNDER GROUND BEAMS	10AUG87	13AUG87	23AUG87	26AUG87	11
216H018A07	4	4	0	34	PLAIN CONCRETE UNDER GROUND BEAMS	15AUG87	18AUG87	25AUG87	29AUG87	9
217H017A07	4	4	0	35	PLAIN CONCRETE UNDER GROUND BEAMS	15AUG87	18AUG87	27AUG87	31AUG87	11
217H016A07	4	4	0	36	PLAIN CONCRETE UNDER GROUND BEAMS	15AUG87	18AUG87	30AUG87	2SEP87	13
218H015A07	4	4	0	37	PLAIN CONCRETE UNDER GROUND BEAMS	19AUG87	23AUG87	31AUG87	3SEP87	10
218H014A07	4	4	0	38	PLAIN CONCRETE UNDER GROUND BEAMS	19AUG87	23AUG87	2SEP87	6SEP87	12
218H013A07	4	4	0	39	PLAIN CONCRETE UNDER GROUND BEAMS	19AUG87	23AUG87	5SEP87	8SEP87	14
219H012A07	4	4	0	40	PLAIN CONCRETE UNDER GROUND BEAMS	24AUG87	27AUG87	7SEP87	10SEP87	12
219H011A07	4	4	0	41	PLAIN CONCRETE UNDER GROUND BEAMS	24AUG87	27AUG87	9SEP87	13SEP87	14
219H010A07	4	4	0	42	PLAIN CONCRETE UNDER GROUND BEAMS	24AUG87	27AUG87	12SEP87	15SEP87	16
220H009A07	4	4	0	43	PLAIN CONCRETE UNDER GROUND BEAMS	5SEP87	8SEP87	14SEP87	17SEP87	8
220H008A07	4	4	0	44	PLAIN CONCRETE UNDER GROUND BEAMS	5SEP87	8SEP87	15SEP87	19SEP87	9
220H007A07	4	4	0	45	PLAIN CONCRETE UNDER GROUND BEAMS	5SEP87	8SEP87	17SEP87	21SEP87	11
220H006A07	4	4	0	46	PLAIN CONCRETE UNDER GROUND BEAMS	9SEP87	13SEP87	20SEP87	23SEP87	9
220H005A07	4	4	0	47	PLAIN CONCRETE UNDER GROUND BEAMS	9SEP87	13SEP87	22SEP87	26SEP87	11
220H004A07	4	4	0	48	PLAIN CONCRETE UNDER GROUND BEAMS	9SEP87	13SEP87	24SEP87	28SEP87	13
221H003A07	4	4	0	49	PLAIN CONCRETE UNDER GROUND BEAMS	14SEP87	17SEP87	27SEP87	30SEP87	11
221H002A07	4	4	0	50	PLAIN CONCRETE UNDER GROUND BEAMS	14SEP87	17SEP87	29SEP87	3OCT87	13
221H001A07	4	4	0	51	PLAIN CONCRETE UNDER GROUND BEAMS	14SEP87	17SEP87	30SEP87	4OCT87	14
211H044A08	13	13	0	01	GROUND BEAMS	14JUN87	28JUN87	18JUN87	2JUL87	4
211H043A08	13	13	0	02	GROUND BEAMS	14JUN87	28JUN87	21JUN87	5JUL87	6
211H042A08	13	13	0	03	GROUND BEAMS	14JUN87	28JUN87	23JUN87	7JUL87	8
213H035A08	13	13	0	04	GROUND BEAMS	25JUN87	9JUL87	25JUN87	9JUL87	0
213H036A08	13	13	0	05	GROUND BEAMS	25JUN87	9JUL87	28JUN87	12JUL87	2
213H037A08	13	13	0	06	GROUND BEAMS	25JUN87	9JUL87	30JUN87	14JUL87	4
213H032A08	13	13	0	07	GROUND BEAMS	30JUN87	14JUL87	2JUL87	16JUL87	2
213H033A08	13	13	0	08	GROUND BEAMS	30JUN87	14JUL87	5JUL87	19JUL87	4
213H034A08	13	13	0	09	GROUND BEAMS	30JUN87	14JUL87	6JUL87	20JUL87	5
223H185A08	13	13	0	10	GROUND BEAMS	5JUL87	19JUL87	8JUL87	22JUL87	3
223H186A08	13	13	0	11	GROUND BEAMS	11JUL87	25JUL87	11JUL87	25JUL87	0
223H187A08	13	13	0	12	GROUND BEAMS	11JUL87	25JUL87	13JUL87	27JUL87	2
222H188A08	13	13	0	13	GROUND BEAMS	11JUL87	25JUL87	15JUL87	29JUL87	4
222H189A08	13	13	0	14	GROUND BEAMS	15JUL87	29JUL87	18JUL87	1AUG87	2
222H190A08	13	13	0	15	GROUND BEAMS	15JUL87	29JUL87	20JUL87	3AUG87	4
321K174A08	13	13	0	16	GROUND BEAMS	15JUL87	29JUL87	21JUL87	4AUG87	5
321K175A08	13	13	0	17	GROUND BEAMS	20JUL87	3AUG87	23JUL87	6AUG87	3
320K176A08	13	13	0	18	GROUND BEAMS	26JUL87	9AUG87	26JUL87	9AUG87	0
320K177A08	13	13	0	19	GROUND BEAMS	26JUL87	9AUG87	28JUL87	11AUG87	2
320K178A08	13	13	0	20	GROUND BEAMS	26JUL87	9AUG87	30JUL87	13AUG87	4
214H031A08	13	13	0	21	GROUND BEAMS	30JUL87	13AUG87	2AUG87	16AUG87	2
214H030A08	13	13	0	22	GROUND BEAMS	30JUL87	13AUG87	4AUG87	18AUG87	4
214H029A08	13	13	0	23	GROUND BEAMS	30JUL87	13AUG87	5AUG87	19AUG87	5
214H028A08	13	13	0	24	GROUND BEAMS	4AUG87	18AUG87	8AUG87	22AUG87	3
215H027A08	13	13	0	25	GROUND BEAMS	10AUG87	24AUG87	10AUG87	24AUG87	0
215H026A08	13	13	0	26	GROUND BEAMS	10AUG87	24AUG87	12AUG87	26AUG87	2
215H025A08	13	13	0	27	GROUND BEAMS	10AUG87	24AUG87	15AUG87	29AUG87	4
215H024A08	13	13	0	28	GROUND BEAMS	15AUG87	29AUG87	17AUG87	31AUG87	2
215H023A08	13	13	0	29	GROUND BEAMS	15AUG87	29AUG87	19AUG87	2SEP87	4
215H022A08	13	13	0	30	GROUND BEAMS	15AUG87	29AUG87	20AUG87	3SEP87	5
216H021A08	13	13	0	31	GROUND BEAMS	19AUG87	2SEP87	23AUG87	6SEP87	3
216H020A08	13	13	0	32	GROUND BEAMS	25AUG87	8SEP87	25AUG87	8SEP87	0
216H019A08	13	13	0	33	GROUND BEAMS	25AUG87	8SEP87	27AUG87	10SEP87	2
216H018A08	13	13	0	34	GROUND BEAMS	25AUG87	8SEP87	30AUG87	13SEP87	4
217H017A08	13	13	0	35	GROUND BEAMS	30AUG87	13SEP87	1SEP87	15SEP87	2
217H016A08	13	13	0	36	GROUND BEAMS	30AUG87	13SEP87	3SEP87	17SEP87	4
218H015A08	13	13	0	37	GROUND BEAMS	30AUG87	13SEP87	5SEP87	19SEP87	5
218H014A08	13	13	0	38	GROUND BEAMS	3SEP87	17SEP87	7SEP87	21SEP87	3
218H013A08	13	13	0	39	GROUND BEAMS	9SEP87	23SEP87	9SEP87	23SEP87	0
219H012A08	13	13	0	40	GROUND BEAMS	9SEP87	23SEP87	12SEP87	26SEP87	2
219H011A08	13	13	0	41	GROUND BEAMS	9SEP87	23SEP87	14SEP87	28SEP87	4
219H010A08	13	13	0	42	GROUND BEAMS	14SEP87	28SEP87	16SEP87	30SEP87	2
220H009A08	13	13	0	43	GROUND BEAMS	14SEP87	28SEP87	19SEP87	3OCT87	4
220H008A08	13	13	0	44	GROUND BEAMS	14SEP87	28SEP87	20SEP87	4OCT87	5
220H007A08	13	13	0	45	GROUND BEAMS	19SEP87	3OCT87	22SEP87	6OCT87	3
220H006A08	13	13	0	46	GROUND BEAMS	24SEP87	8OCT87	24SEP87	8OCT87	0
220H005A08	13	13	0	47	GROUND BEAMS	24SEP87	8OCT87	27SEP87	11OCT87	2
220H004A08	13	13	0	48	GROUND BEAMS	24SEP87	8OCT87	29SEP87	13OCT87	4
221H003A08	13	13	0	49	GROUND BEAMS	29SEP87	13OCT87	1OCT87	15OCT87	2
221H002A08	13	13	0	50	GROUND BEAMS	29SEP87	13OCT87	4OCT87	18OCT87	4
221H001A08	13	13	0	51	GROUND BEAMS	29SEP87	13OCT87	5OCT87	19OCT87	5
211H044A09	6	6	0	01	2nd BACKFILL & SLAB ON GRADE	29JUN87	5JUL87	4JUL87	9JUL87	4
211H043A09	6	6	0	02	2nd BACKFILL & SLAB ON GRADE	29JUN87	5JUL87	7JUL87	13JUL87	7
211H042A09	6	6	0	03	2nd BACKFILL & SLAB ON GRADE	29JUN87	5JUL87	9JUL87	15JUL87	9
213H035A09	6	6	0	04	2nd BACKFILL & SLAB ON GRADE	11JUL87	16JUL87	12JUL87	18JUL87	1
213H036A09	6	6	0	05	2nd BACKFILL & SLAB ON GRADE	11JUL87	16JUL87	14JUL87	20JUL87	3
213H037A09	6	6	0	06	2nd BACKFILL & SLAB ON GRADE	11JUL87	16JUL87	15JUL87	21JUL87	4
213H032A09	6	6	0	07	2nd BACKFILL & SLAB ON GRADE	15JUL87	21JUL87	18JUL87	23JUL87	2
213H033A09	6	6	0	08	2nd BACKFILL & SLAB ON GRADE	18JUL87	23JUL87	20JUL87	26JUL87	2
213H034A09	6	6	0	09	2nd BACKFILL & SLAB ON GRADE	18JUL87	23JUL87	22JUL87	28JUL87	4

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 5

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
123H185A09	6	6	0	10	2nd BACKFILL & SLAB ON GRADE	20JUL87	26JUL87	25JUL87	30JUL87	4
123H186A09	6	6	0	11	2nd BACKFILL & SLAB ON GRADE	26JUL87	1AUG87	27JUL87	2AUG87	1
123H187A09	6	6	0	12	2nd BACKFILL & SLAB ON GRADE	26JUL87	1AUG87	28JUL87	3AUG87	2
122H188A09	6	6	0	13	2nd BACKFILL & SLAB ON GRADE	26JUL87	1AUG87	30JUL87	5AUG87	4
122H189A09	6	6	0	14	2nd BACKFILL & SLAB ON GRADE	30JUL87	5AUG87	2AUG87	8AUG87	2
122H190A09	6	6	0	15	2nd BACKFILL & SLAB ON GRADE	2AUG87	8AUG87	4AUG87	10AUG87	2
121H174A09	6	6	0	16	2nd BACKFILL & SLAB ON GRADE	2AUG87	8AUG87	6AUG87	12AUG87	4
121H175A09	6	6	0	17	2nd BACKFILL & SLAB ON GRADE	4AUG87	10AUG87	9AUG87	15AUG87	4
120H176A09	6	6	0	18	2nd BACKFILL & SLAB ON GRADE	10AUG87	16AUG87	11AUG87	17AUG87	1
120H177A09	6	6	0	19	2nd BACKFILL & SLAB ON GRADE	10AUG87	16AUG87	12AUG87	18AUG87	2
120H178A09	6	6	0	20	2nd BACKFILL & SLAB ON GRADE	10AUG87	16AUG87	15AUG87	20AUG87	4
124H031A09	6	6	0	21	2nd BACKFILL & SLAB ON GRADE	15AUG87	20AUG87	17AUG87	23AUG87	2
124H030A09	6	6	0	22	2nd BACKFILL & SLAB ON GRADE	17AUG87	23AUG87	19AUG87	25AUG87	2
124H029A09	6	6	0	23	2nd BACKFILL & SLAB ON GRADE	17AUG87	23AUG87	22AUG87	27AUG87	4
124H028A09	6	6	0	24	2nd BACKFILL & SLAB ON GRADE	19AUG87	25AUG87	24AUG87	30AUG87	4
125H027A09	6	6	0	25	2nd BACKFILL & SLAB ON GRADE	25AUG87	31AUG87	25AUG87	31AUG87	0
125H026A09	6	6	0	26	2nd BACKFILL & SLAB ON GRADE	25AUG87	31AUG87	27AUG87	2SEP87	2
125H025A09	6	6	0	27	2nd BACKFILL & SLAB ON GRADE	25AUG87	31AUG87	30AUG87	5SEP87	4
125H024A09	6	6	0	28	2nd BACKFILL & SLAB ON GRADE	30AUG87	5SEP87	1SEP87	7SEP87	2
125H023A09	6	6	0	29	2nd BACKFILL & SLAB ON GRADE	1SEP87	7SEP87	3SEP87	9SEP87	2
125H022A09	6	6	0	30	2nd BACKFILL & SLAB ON GRADE	7SEP87	13SEP87	6SEP87	12SEP87	4
126H021A09	6	6	0	31	2nd BACKFILL & SLAB ON GRADE	7SEP87	13SEP87	8SEP87	14SEP87	4
126H020A09	6	6	0	32	2nd BACKFILL & SLAB ON GRADE	9SEP87	15SEP87	9SEP87	15SEP87	0
126H019A09	6	6	0	33	2nd BACKFILL & SLAB ON GRADE	9SEP87	15SEP87	12SEP87	17SEP87	2
126H018A09	6	6	0	34	2nd BACKFILL & SLAB ON GRADE	9SEP87	15SEP87	14SEP87	20SEP87	4
127H017A09	6	6	0	35	2nd BACKFILL & SLAB ON GRADE	14SEP87	20SEP87	16SEP87	22SEP87	2
127H016A09	6	6	0	36	2nd BACKFILL & SLAB ON GRADE	16SEP87	22SEP87	19SEP87	24SEP87	2
128H015A09	6	6	0	37	2nd BACKFILL & SLAB ON GRADE	16SEP87	22SEP87	21SEP87	27SEP87	4
128H014A09	6	6	0	38	2nd BACKFILL & SLAB ON GRADE	19SEP87	24SEP87	22SEP87	28SEP87	3
128H013A09	6	6	0	39	2nd BACKFILL & SLAB ON GRADE	24SEP87	30SEP87	24SEP87	30SEP87	0
129H012A09	6	6	0	40	2nd BACKFILL & SLAB ON GRADE	24SEP87	30SEP87	27SEP87	30CT87	2
129H011A09	6	6	0	41	2nd BACKFILL & SLAB ON GRADE	24SEP87	30SEP87	29SEP87	5OCT87	4
129H010A09	6	6	0	42	2nd BACKFILL & SLAB ON GRADE	29SEP87	5OCT87	1OCT87	7OCT87	2
122H009A09	6	6	0	43	2nd BACKFILL & SLAB ON GRADE	1OCT87	7OCT87	4OCT87	10OCT87	7
122H008A09	6	6	0	44	2nd BACKFILL & SLAB ON GRADE	1OCT87	7OCT87	6OCT87	12OCT87	4
122H007A09	6	6	0	45	2nd BACKFILL & SLAB ON GRADE	4OCT87	10OCT87	7OCT87	13OCT87	3
122H006A09	6	6	0	46	2nd BACKFILL & SLAB ON GRADE	10OCT87	15OCT87	10OCT87	15OCT87	0
122H005A09	6	6	0	47	2nd BACKFILL & SLAB ON GRADE	10OCT87	15OCT87	12OCT87	18OCT87	2
122H004A09	6	6	0	48	2nd BACKFILL & SLAB ON GRADE	10OCT87	15OCT87	14OCT87	20OCT87	4
122H003A09	6	6	0	49	2nd BACKFILL & SLAB ON GRADE	14OCT87	20OCT87	17OCT87	22OCT87	2
122H002A09	6	6	0	50	2nd BACKFILL & SLAB ON GRADE	17OCT87	22OCT87	19OCT87	25OCT87	2
122H001A09	6	6	0	51	2nd BACKFILL & SLAB ON GRADE	17OCT87	22OCT87	20OCT87	26OCT87	3
121H044A10	7	7	0	01	GF COLUMNS	6JUL87	13JUL87	13JUL87	20JUL87	6
121H043A10	7	7	0	02	GF COLUMNS	6JUL87	13JUL87	16JUL87	23JUL87	9
121H042A10	7	7	0	03	GF COLUMNS	6JUL87	13JUL87	19JUL87	26JUL87	11
121H035A10	7	7	0	04	GF COLUMNS	18JUL87	25JUL87	21JUL87	28JUL87	3
121H036A10	7	7	0	05	GF COLUMNS	18JUL87	25JUL87	23JUL87	30JUL87	5
121H037A10	7	7	0	06	GF COLUMNS	18JUL87	25JUL87	25JUL87	1AUG87	6
121H032A10	7	7	0	07	GF COLUMNS	22JUL87	29JUL87	27JUL87	3AUG87	4
121H033A10	7	7	0	08	GF COLUMNS	26JUL87	2AUG87	29JUL87	5AUG87	3
121H034A10	7	7	0	09	GF COLUMNS	28JUL87	4AUG87	1AUG87	8AUG87	4
122H185A10	7	7	0	10	GF COLUMNS	28JUL87	4AUG87	3AUG87	10AUG87	5
122H186A10	7	7	0	11	GF COLUMNS	2AUG87	9AUG87	5AUG87	12AUG87	3
122H187A10	7	7	0	12	GF COLUMNS	3AUG87	10AUG87	6AUG87	13AUG87	3
122H188A10	7	7	0	13	GF COLUMNS	5AUG87	12AUG87	9AUG87	16AUG87	3
122H189A10	7	7	0	14	GF COLUMNS	8AUG87	15AUG87	11AUG87	18AUG87	3
122H190A10	7	7	0	15	GF COLUMNS	10AUG87	17AUG87	13AUG87	20AUG87	3
121H174A10	7	7	0	16	GF COLUMNS	12AUG87	19AUG87	16AUG87	23AUG87	3
121H175A10	7	7	0	17	GF COLUMNS	13AUG87	20AUG87	18AUG87	25AUG87	4
120H176A10	7	7	0	18	GF COLUMNS	17AUG87	24AUG87	20AUG87	27AUG87	3
120H177A10	7	7	0	19	GF COLUMNS	18AUG87	25AUG87	22AUG87	29AUG87	3
120H178A10	7	7	0	20	GF COLUMNS	20AUG87	27AUG87	24AUG87	31AUG87	3
124H031A10	7	7	0	21	GF COLUMNS	21AUG87	30AUG87	26AUG87	2SEP87	3
124H030A10	7	7	0	22	GF COLUMNS	25AUG87	1SEP87	29AUG87	5SEP87	3
124H029A10	7	7	0	23	GF COLUMNS	27AUG87	3SEP87	31AUG87	7SEP87	3
124H028A10	7	7	0	24	GF COLUMNS	29AUG87	5SEP87	2SEP87	9SEP87	4
125H027A10	7	7	0	25	GF COLUMNS	1SEP87	8SEP87	3SEP87	10SEP87	2
125H026A10	7	7	0	26	GF COLUMNS	2SEP87	9SEP87	6SEP87	13SEP87	3
125H025A10	7	7	0	27	GF COLUMNS	5SEP87	12SEP87	8SEP87	15SEP87	3
125H024A10	7	7	0	28	GF COLUMNS	7SEP87	14SEP87	10SEP87	17SEP87	3
125H023A10	7	7	0	29	GF COLUMNS	9SEP87	16SEP87	13SEP87	20SEP87	3
125H022A10	7	7	0	30	GF COLUMNS	12SEP87	19SEP87	15SEP87	22SEP87	3
126H021A10	7	7	0	31	GF COLUMNS	13SEP87	20SEP87	17SEP87	24SEP87	4
126H020A10	7	7	0	32	GF COLUMNS	16SEP87	23SEP87	19SEP87	26SEP87	2
126H019A10	7	7	0	33	GF COLUMNS	17SEP87	24SEP87	21SEP87	28SEP87	3
126H018A10	7	7	0	34	GF COLUMNS	20SEP87	27SEP87	23SEP87	30SEP87	3
127H017A10	7	7	0	35	GF COLUMNS	22SEP87	29SEP87	26SEP87	3OCT87	3
127H016A10	7	7	0	36	GF COLUMNS	24SEP87	1OCT87	28SEP87	5OCT87	3
128H015A10	7	7	0	37	GF COLUMNS	27SEP87	4OCT87	30SEP87	7OCT87	3
128H014A10	7	7	0	38	GF COLUMNS	28SEP87	5OCT87	1OCT87	8OCT87	3
128H013A10	7	7	0	39	GF COLUMNS	1OCT87	8OCT87	4OCT87	11OCT87	2
129H012A10	7	7	0	40	GF COLUMNS	3OCT87	10OCT87	6OCT87	13OCT87	3
129H011A10	7	7	0	41	GF COLUMNS	5OCT87	12OCT87	8OCT87	15OCT87	3
129H010A10	7	7	0	42	GF COLUMNS	7OCT87	14OCT87	11OCT87	18OCT87	3
122H009A10	7	7	0	43	GF COLUMNS	10OCT87	17OCT87	13OCT87	20OCT87	3
122H008A10	7	7	0	44	GF COLUMNS	12OCT87	19OCT87	15OCT87	22OCT87	3
122H007A10	7	7	0	45	GF COLUMNS	13OCT87	20OCT87	17OCT87	24OCT87	3
122H006A10	7	7	0	46	GF COLUMNS	17OCT87	24OCT87	19OCT87	26OCT87	2
122H005A10	7	7	0	47	GF COLUMNS	18OCT87	25OCT87	21OCT87	28OCT87	3
122H004A10	7	7	0	48	GF COLUMNS	20OCT87	27OCT87	24OCT87	31OCT87	3
122H003A10	7	7	0	49	GF COLUMNS	22OCT87	29OCT87	26OCT87	2NOV87	3
122H002A10	7	7	0	50	GF COLUMNS	25OCT87	1NOV87	28OCT87	4NOV87	3
122H001A10	7	7	0	51	GF COLUMNS	27OCT87	3NOV87	29OCT87	5NOV87	2
121H044A11	9	9	0	01	GF LOFT WALLS & SLABS	6JUL87	15JUL87	11JUL87	20JUL87	4
121H043A11	9	9	0	02	GF LOFT WALLS & SLABS	6JUL87	15JUL87	14JUL87	23JUL87	7
121H042A11	9	9	0	03	GF LOFT WALLS & SLABS	6JUL87	15JUL87	16JUL87	26JUL87	9

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS. CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:45

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 6

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
213H035A11	9	9	0	04	GF LOFT WALLS & SLABS	18JUL87	27JUL87	19JUL87	28JUL87	1
213H036A11	9	9	0	05	GF LOFT WALLS & SLABS	18JUL87	27JUL87	21JUL87	30JUL87	3
213H037A11	9	9	0	06	GF LOFT WALLS & SLABS	18JUL87	27JUL87	22JUL87	1AUG87	4
213H032A11	9	9	0	07	GF LOFT WALLS & SLABS	22JUL87	1AUG87	25JUL87	3AUG87	2
213H033A11	9	9	0	08	GF LOFT WALLS & SLABS	25JUL87	3AUG87	27JUL87	5AUG87	2
213H034A11	9	9	0	09	GF LOFT WALLS & SLABS	28JUL87	6AUG87	29JUL87	8AUG87	1
223H185A11	9	9	0	10	GF LOFT WALLS & SLABS	28JUL87	6AUG87	1AUG87	10AUG87	3
223H186A11	9	9	0	11	GF LOFT WALLS & SLABS	2AUG87	11AUG87	3AUG87	12AUG87	1
223H187A11	9	9	0	12	GF LOFT WALLS & SLABS	2AUG87	11AUG87	4AUG87	13AUG87	2
222H188A11	9	9	0	13	GF LOFT WALLS & SLABS	4AUG87	13AUG87	6AUG87	16AUG87	2
222H189A11	9	9	0	14	GF LOFT WALLS & SLABS	8AUG87	17AUG87	9AUG87	18AUG87	1
222H190A11	9	9	0	15	GF LOFT WALLS & SLABS	9AUG87	18AUG87	11AUG87	20AUG87	2
321H174A11	9	9	0	16	GF LOFT WALLS & SLABS	12AUG87	22AUG87	13AUG87	23AUG87	1
321H175A11	9	9	0	17	GF LOFT WALLS & SLABS	12AUG87	22AUG87	16AUG87	25AUG87	3
320H176A11	9	9	0	18	GF LOFT WALLS & SLABS	17AUG87	26AUG87	18AUG87	27AUG87	1
320H177A11	9	9	0	19	GF LOFT WALLS & SLABS	18AUG87	27AUG87	19AUG87	29AUG87	1
320H178A11	9	9	0	20	GF LOFT WALLS & SLABS	19AUG87	29AUG87	22AUG87	31AUG87	2
214H031A11	9	9	0	21	GF LOFT WALLS & SLABS	23AUG87	1SEP87	24AUG87	2SEP87	1
214H030A11	9	9	0	22	GF LOFT WALLS & SLABS	24AUG87	2SEP87	26AUG87	5SEP87	2
214H029A11	9	9	0	23	GF LOFT WALLS & SLABS	27AUG87	6SEP87	29AUG87	7SEP87	1
214H028A11	9	9	0	24	GF LOFT WALLS & SLABS	29AUG87	7SEP87	31AUG87	9SEP87	2
215H027A11	9	9	0	25	GF LOFT WALLS & SLABS	1SEP87	10SEP87	1SEP87	10SEP87	0
215H026A11	9	9	0	26	GF LOFT WALLS & SLABS	2SEP87	12SEP87	3SEP87	13SEP87	1
215H025A11	9	9	0	27	GF LOFT WALLS & SLABS	3SEP87	13SEP87	6SEP87	15SEP87	2
215H024A11	9	9	0	28	GF LOFT WALLS & SLABS	7SEP87	16SEP87	8SEP87	17SEP87	1
215H023A11	9	9	0	29	GF LOFT WALLS & SLABS	8SEP87	17SEP87	10SEP87	20SEP87	2
215H022A11	9	9	0	30	GF LOFT WALLS & SLABS	12SEP87	21SEP87	12SEP87	22SEP87	1
215H021A11	9	9	0	31	GF LOFT WALLS & SLABS	13SEP87	22SEP87	15SEP87	24SEP87	1
216H020A11	9	9	0	32	GF LOFT WALLS & SLABS	16SEP87	26SEP87	16SEP87	26SEP87	0
216H019A11	9	9	0	33	GF LOFT WALLS & SLABS	17SEP87	27SEP87	19SEP87	28SEP87	1
216H018A11	9	9	0	34	GF LOFT WALLS & SLABS	19SEP87	28SEP87	21SEP87	30SEP87	2
217H017A11	9	9	0	35	GF LOFT WALLS & SLABS	22SEP87	1OCT87	23SEP87	3OCT87	1
217H016A11	9	9	0	36	GF LOFT WALLS & SLABS	23SEP87	3OCT87	26SEP87	5OCT87	2
218H015A11	9	9	0	37	GF LOFT WALLS & SLABS	27SEP87	6OCT87	28SEP87	7OCT87	1
218H014A11	9	9	0	38	GF LOFT WALLS & SLABS	28SEP87	7OCT87	29SEP87	8OCT87	1
218H013A11	9	9	0	39	GF LOFT WALLS & SLABS	1OCT87	11OCT87	1OCT87	11OCT87	0
219H012A11	9	9	0	40	GF LOFT WALLS & SLABS	3OCT87	12OCT87	4OCT87	13OCT87	1
219H011A11	9	9	0	41	GF LOFT WALLS & SLABS	4OCT87	13OCT87	6OCT87	15OCT87	2
219H010A11	9	9	0	42	GF LOFT WALLS & SLABS	7OCT87	17OCT87	8OCT87	18OCT87	1
220H009A11	9	9	0	43	GF LOFT WALLS & SLABS	8OCT87	18OCT87	11OCT87	20OCT87	2
220H008A11	9	9	0	44	GF LOFT WALLS & SLABS	12OCT87	21OCT87	13OCT87	22OCT87	1
220H007A11	9	9	0	45	GF LOFT WALLS & SLABS	13OCT87	22OCT87	14OCT87	24OCT87	1
220H006A11	9	9	0	46	GF LOFT WALLS & SLABS	17OCT87	26OCT87	17OCT87	26OCT87	0
220H005A11	9	9	0	47	GF LOFT WALLS & SLABS	18OCT87	27OCT87	19OCT87	28OCT87	1
220H004A11	9	9	0	48	GF LOFT WALLS & SLABS	19OCT87	28OCT87	21OCT87	31OCT87	2
221H003A11	9	9	0	49	GF LOFT WALLS & SLABS	22OCT87	1NOV87	24OCT87	2NOV87	1
221H002A11	9	9	0	50	GF LOFT WALLS & SLABS	24OCT87	2NOV87	26OCT87	4NOV87	2
221H001A11	9	9	0	51	GF LOFT WALLS & SLABS	27OCT87	5NOV87	27OCT87	5NOV87	0
211H044A12	12	12	0	01	GF ROOF	16JUL87	29JUL87	21JUL87	3AUG87	4
211H043A12	12	12	0	02	GF ROOF	16JUL87	29JUL87	25JUL87	6AUG87	7
211H042A12	12	12	0	03	GF ROOF	16JUL87	29JUL87	27JUL87	9AUG87	9
213H035A12	12	12	0	04	GF ROOF	28JUL87	10AUG87	29JUL87	11AUG87	1
213H036A12	12	12	0	05	GF ROOF	28JUL87	10AUG87	1AUG87	13AUG87	3
213H037A12	12	12	0	06	GF ROOF	28JUL87	10AUG87	2AUG87	15AUG87	4
213H032A12	12	12	0	07	GF ROOF	2AUG87	15AUG87	4AUG87	17AUG87	2
213H033A12	12	12	0	08	GF ROOF	4AUG87	17AUG87	6AUG87	19AUG87	2
213H034A12	12	12	0	09	GF ROOF	8AUG87	20AUG87	9AUG87	22AUG87	1
223H185A12	12	12	0	10	GF ROOF	8AUG87	20AUG87	11AUG87	24AUG87	3
223H186A12	12	12	0	11	GF ROOF	12AUG87	25AUG87	13AUG87	26AUG87	1
223H187A12	12	12	0	12	GF ROOF	12AUG87	25AUG87	15AUG87	27AUG87	2
222H188A12	12	12	0	13	GF ROOF	15AUG87	27AUG87	17AUG87	30AUG87	2
222H189A12	12	12	0	14	GF ROOF	18AUG87	31AUG87	19AUG87	1SEP87	1
222H190A12	12	12	0	15	GF ROOF	19AUG87	1SEP87	22AUG87	1SEP87	2
321H174A12	12	12	0	16	GF ROOF	23AUG87	5SEP87	24AUG87	6SEP87	1
321H175A12	12	12	0	17	GF ROOF	25AUG87	7SEP87	26AUG87	8SEP87	1
320H176A12	12	12	0	18	GF ROOF	27AUG87	9SEP87	29AUG87	10SEP87	1
320H177A12	12	12	0	19	GF ROOF	29AUG87	10SEP87	30AUG87	12SEP87	1
320H178A12	12	12	0	20	GF ROOF	30AUG87	12SEP87	1SEP87	14SEP87	2
214H031A12	12	12	0	21	GF ROOF	2SEP87	15SEP87	3SEP87	16SEP87	1
214H030A12	12	12	0	22	GF ROOF	5SEP87	17SEP87	6SEP87	19SEP87	1
214H029A12	12	12	0	23	GF ROOF	7SEP87	20SEP87	8SEP87	21SEP87	1
214H028A12	12	12	0	24	GF ROOF	9SEP87	22SEP87	10SEP87	23SEP87	1
215H027A12	12	12	0	25	GF ROOF	12SEP87	24SEP87	12SEP87	24SEP87	0
215H026A12	12	12	0	26	GF ROOF	13SEP87	26SEP87	14SEP87	27SEP87	1
215H025A12	12	12	0	27	GF ROOF	15SEP87	28SEP87	16SEP87	29SEP87	1
215H024A12	12	12	0	28	GF ROOF	17SEP87	30SEP87	19SEP87	1OCT87	1
215H023A12	12	12	0	29	GF ROOF	20SEP87	3OCT87	21SEP87	4OCT87	1
215H022A12	12	12	0	30	GF ROOF	22SEP87	5OCT87	23SEP87	6OCT87	1
216H021A12	12	12	0	31	GF ROOF	24SEP87	7OCT87	26SEP87	8OCT87	1
216H020A12	12	12	0	32	GF ROOF	27SEP87	10OCT87	27SEP87	10OCT87	0
216H019A12	12	12	0	33	GF ROOF	28SEP87	11OCT87	29SEP87	12OCT87	1
216H018A12	12	12	0	34	GF ROOF	30SEP87	13OCT87	1OCT87	14OCT87	1
217H017A12	12	12	0	35	GF ROOF	3OCT87	15OCT87	4OCT87	17OCT87	1
217H016A12	12	12	0	36	GF ROOF	5OCT87	18OCT87	6OCT87	19OCT87	1
218H015A12	12	12	0	37	GF ROOF	7OCT87	20OCT87	8OCT87	21OCT87	1
218H014A12	12	12	0	38	GF ROOF	10OCT87	22OCT87	10OCT87	22OCT87	0
218H013A12	12	12	0	39	GF ROOF	12OCT87	25OCT87	12OCT87	25OCT87	0
219H012A12	12	12	0	40	GF ROOF	13OCT87	26OCT87	14OCT87	27OCT87	1
219H011A12	12	12	0	41	GF ROOF	15OCT87	28OCT87	17OCT87	29OCT87	1
219H010A12	12	12	0	42	GF ROOF	18OCT87	31OCT87	19OCT87	1NOV87	1
220H009A12	12	12	0	43	GF ROOF	20OCT87	2NOV87	21OCT87	3NOV87	1
220H008A12	12	12	0	44	GF ROOF	22OCT87	4NOV87	24OCT87	5NOV87	1
220H007A12	12	12	0	45	GF ROOF	25OCT87	7NOV87	25OCT87	7NOV87	0
220H006A12	12	12	0	46	GF ROOF	27OCT87	9NOV87	27OCT87	9NOV87	0
220H005A12	12	12	0	47	GF ROOF	28OCT87	10NOV87	29OCT87	11NOV87	1
220H004A12	12	12	0	48	GF ROOF	31OCT87	12NOV87	1NOV87	14NOV87	1

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 11SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 7

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
221H003A12	12	12	0	49	GF ROOF	2NOV87	15NOV87	3NOV87	16NOV87	1
221H002A12	12	12	0	50	GF ROOF	4NOV87	17NOV87	5NOV87	18NOV87	1
221H001A12	12	12	0	51	GF ROOF	7NOV87	19NOV87	7NOV87	19NOV87	0
211H044A13	7	7	0	01	FF COLUMNS	30JUL87	6AUG87	6AUG87	13AUG87	6
211H043A13	7	7	0	02	FF COLUMNS	10JUL87	6AUG87	10AUG87	17AUG87	9
211H042A13	7	7	0	03	FF COLUMNS	30JUL87	6AUG87	12AUG87	19AUG87	11
213H035A13	7	7	0	04	FF COLUMNS	11AUG87	18AUG87	15AUG87	22AUG87	3
213H036A13	7	7	0	05	FF COLUMNS	11AUG87	18AUG87	17AUG87	24AUG87	5
213H037A13	7	7	0	06	FF COLUMNS	11AUG87	18AUG87	18AUG87	25AUG87	6
213H032A13	7	7	0	07	FF COLUMNS	16AUG87	23AUG87	20AUG87	27AUG87	4
213H033A13	7	7	0	08	FF COLUMNS	19AUG87	26AUG87	23AUG87	30AUG87	3
213H034A13	7	7	0	09	FF COLUMNS	22AUG87	29AUG87	25AUG87	1SEP87	3
323H185A13	7	7	0	10	FF COLUMNS	22AUG87	29AUG87	27AUG87	3SEP87	5
323H186A13	7	7	0	11	FF COLUMNS	26AUG87	2SEP87	30AUG87	6SEP87	3
323H187A13	7	7	0	12	FF COLUMNS	27AUG87	3SEP87	31AUG87	7SEP87	3
322H188A13	7	7	0	13	FF COLUMNS	30AUG87	6SEP87	2SEP87	9SEP87	3
322H189A13	7	7	0	14	FF COLUMNS	1SEP87	8SEP87	5SEP87	12SEP87	3
322H190A13	7	7	0	15	FF COLUMNS	3SEP87	10SEP87	7SEP87	14SEP87	3
321H174A13	7	7	0	16	FF COLUMNS	6SEP87	13SEP87	7SEP87	16SEP87	3
321H175A13	7	7	0	17	FF COLUMNS	8SEP87	15SEP87	12SEP87	19SEP87	3
320H176A13	7	7	0	18	FF COLUMNS	10SEP87	17SEP87	14SEP87	21SEP87	3
320H177A13	7	7	0	19	FF COLUMNS	12SEP87	19SEP87	15SEP87	22SEP87	3
320H178A13	7	7	0	20	FF COLUMNS	14SEP87	21SEP87	17SEP87	24SEP87	3
214H031A13	7	7	0	21	FF COLUMNS	16SEP87	23SEP87	20SEP87	27SEP87	3
214H030A13	7	7	0	22	FF COLUMNS	19SEP87	26SEP87	22SEP87	29SEP87	3
214H029A13	7	7	0	23	FF COLUMNS	21SEP87	28SEP87	24SEP87	1OCT87	3
214H028A13	7	7	0	24	FF COLUMNS	23SEP87	30SEP87	27SEP87	4OCT87	3
215H027A13	7	7	0	25	FF COLUMNS	26SEP87	3OCT87	28SEP87	5OCT87	2
215H026A13	7	7	0	26	FF COLUMNS	27SEP87	4OCT87	30SEP87	7OCT87	3
215H025A13	7	7	0	27	FF COLUMNS	29SEP87	6OCT87	3OCT87	10OCT87	3
215H024A13	7	7	0	28	FF COLUMNS	1OCT87	8OCT87	5OCT87	12OCT87	3
215H023A13	7	7	0	29	FF COLUMNS	4OCT87	11OCT87	7OCT87	14OCT87	3
215H022A13	7	7	0	30	FF COLUMNS	6OCT87	13OCT87	10OCT87	17OCT87	3
216H021A13	7	7	0	31	FF COLUMNS	8OCT87	15OCT87	12OCT87	19OCT87	3
216H020A13	7	7	0	32	FF COLUMNS	11OCT87	18OCT87	13OCT87	20OCT87	2
216H019A13	7	7	0	33	FF COLUMNS	12OCT87	19OCT87	15OCT87	22OCT87	3
216H018A13	7	7	0	34	FF COLUMNS	14OCT87	21OCT87	18OCT87	25OCT87	3
217H017A13	7	7	0	35	FF COLUMNS	17OCT87	24OCT87	20OCT87	27OCT87	3
217H016A13	7	7	0	36	FF COLUMNS	19OCT87	26OCT87	22OCT87	29OCT87	3
218H015A13	7	7	0	37	FF COLUMNS	21OCT87	28OCT87	25OCT87	1NOV87	3
218H014A13	7	7	0	38	FF COLUMNS	24OCT87	31OCT87	26OCT87	2NOV87	2
218H013A13	7	7	0	39	FF COLUMNS	26OCT87	2NOV87	28OCT87	4NOV87	2
219H012A13	7	7	0	40	FF COLUMNS	27OCT87	3NOV87	31OCT87	7NOV87	3
219H011A13	7	7	0	41	FF COLUMNS	29OCT87	5NOV87	2NOV87	9NOV87	3
219H010A13	7	7	0	42	FF COLUMNS	1NOV87	8NOV87	4NOV87	11NOV87	3
220H009A13	7	7	0	43	FF COLUMNS	3NOV87	10NOV87	7NOV87	14NOV87	3
220H008A13	7	7	0	44	FF COLUMNS	5NOV87	12NOV87	9NOV87	16NOV87	3
220H007A13	7	7	0	45	FF COLUMNS	8NOV87	15NOV87	10NOV87	17NOV87	2
220H006A13	7	7	0	46	FF COLUMNS	10NOV87	17NOV87	12NOV87	19NOV87	2
220H005A13	7	7	0	47	FF COLUMNS	11NOV87	18NOV87	15NOV87	22NOV87	3
220H004A13	7	7	0	48	FF COLUMNS	14NOV87	21NOV87	17NOV87	24NOV87	3
221H003A13	7	7	0	49	FF COLUMNS	16NOV87	23NOV87	19NOV87	26NOV87	3
221H002A13	7	7	0	50	FF COLUMNS	18NOV87	25NOV87	23NOV87	29NOV87	3
221H001A13	7	7	0	51	FF COLUMNS	21NOV87	28NOV87	25NOV87	30NOV87	2
211H044A14	9	9	0	01	FF LOFT WALLS & SLABS	30JUL87	9AUG87	4AUG87	13AUG87	4
211H043A14	9	9	0	02	FF LOFT WALLS & SLABS	30JUL87	9AUG87	10AUG87	17AUG87	9
211H042A14	9	9	0	03	FF LOFT WALLS & SLABS	11AUG87	20AUG87	12AUG87	22AUG87	1
213H035A14	9	9	0	04	FF LOFT WALLS & SLABS	11AUG87	20AUG87	15AUG87	24AUG87	3
213H036A14	9	9	0	05	FF LOFT WALLS & SLABS	11AUG87	20AUG87	16AUG87	25AUG87	4
213H037A14	9	9	0	06	FF LOFT WALLS & SLABS	16AUG87	25AUG87	18AUG87	27AUG87	2
213H032A14	9	9	0	07	FF LOFT WALLS & SLABS	18AUG87	27AUG87	20AUG87	30AUG87	2
213H033A14	9	9	0	08	FF LOFT WALLS & SLABS	22AUG87	31AUG87	23AUG87	1SEP87	1
213H034A14	9	9	0	09	FF LOFT WALLS & SLABS	22AUG87	31AUG87	25AUG87	3SEP87	3
323H185A14	9	9	0	10	FF LOFT WALLS & SLABS	26AUG87	5SEP87	27AUG87	6SEP87	1
323H186A14	9	9	0	11	FF LOFT WALLS & SLABS	26AUG87	5SEP87	29AUG87	7SEP87	2
323H187A14	9	9	0	12	FF LOFT WALLS & SLABS	29AUG87	7SEP87	31AUG87	9SEP87	2
322H188A14	9	9	0	13	FF LOFT WALLS & SLABS	1SEP87	10SEP87	2SEP87	12SEP87	1
322H189A14	9	9	0	14	FF LOFT WALLS & SLABS	2SEP87	12SEP87	5SEP87	14SEP87	2
322H190A14	9	9	0	15	FF LOFT WALLS & SLABS	6SEP87	15SEP87	7SEP87	16SEP87	1
321H174A14	9	9	0	16	FF LOFT WALLS & SLABS	8SEP87	17SEP87	9SEP87	19SEP87	1
321H175A14	9	9	0	17	FF LOFT WALLS & SLABS	10SEP87	20SEP87	12SEP87	21SEP87	1
320H176A14	9	9	0	18	FF LOFT WALLS & SLABS	12SEP87	21SEP87	13SEP87	22SEP87	1
320H177A14	9	9	0	19	FF LOFT WALLS & SLABS	13SEP87	22SEP87	15SEP87	24SEP87	2
320H178A14	9	9	0	20	FF LOFT WALLS & SLABS	16SEP87	26SEP87	17SEP87	27SEP87	1
214H031A14	9	9	0	21	FF LOFT WALLS & SLABS	19SEP87	28SEP87	20SEP87	29SEP87	1
214H030A14	9	9	0	22	FF LOFT WALLS & SLABS	21SEP87	30SEP87	22SEP87	1OCT87	1
214H029A14	9	9	0	23	FF LOFT WALLS & SLABS	23SEP87	3OCT87	24SEP87	4OCT87	1
214H028A14	9	9	0	24	FF LOFT WALLS & SLABS	26SEP87	5OCT87	26SEP87	5OCT87	0
215H027A14	9	9	0	25	FF LOFT WALLS & SLABS	27SEP87	6OCT87	28SEP87	7OCT87	1
215H026A14	9	9	0	26	FF LOFT WALLS & SLABS	29SEP87	8OCT87	30SEP87	10OCT87	1
215H025A14	9	9	0	27	FF LOFT WALLS & SLABS	1OCT87	11OCT87	3OCT87	12OCT87	1
215H024A14	9	9	0	28	FF LOFT WALLS & SLABS	4OCT87	13OCT87	5OCT87	14OCT87	1
215H023A14	9	9	0	29	FF LOFT WALLS & SLABS	6OCT87	15OCT87	7OCT87	17OCT87	1
216H021A14	9	9	0	30	FF LOFT WALLS & SLABS	8OCT87	18OCT87	10OCT87	19OCT87	1
216H020A14	9	9	0	31	FF LOFT WALLS & SLABS	11OCT87	20OCT87	11OCT87	22OCT87	0
216H019A14	9	9	0	32	FF LOFT WALLS & SLABS	12OCT87	21OCT87	13OCT87	24OCT87	1
216H018A14	9	9	0	33	FF LOFT WALLS & SLABS	14OCT87	23OCT87	15OCT87	26OCT87	1
217H017A14	9	9	0	34	FF LOFT WALLS & SLABS	17OCT87	26OCT87	18OCT87	29OCT87	1
217H016A14	9	9	0	35	FF LOFT WALLS & SLABS	19OCT87	28OCT87	20OCT87	31OCT87	1
218H015A14	9	9	0	36	FF LOFT WALLS & SLABS	21OCT87	31OCT87	22OCT87	1NOV87	1
218H014A14	9	9	0	37	FF LOFT WALLS & SLABS	24OCT87	2NOV87	24OCT87	2NOV87	0
218H013A14	9	9	0	38	FF LOFT WALLS & SLABS	26OCT87	4NOV87	26OCT87	4NOV87	0
219H012A14	9	9	0	39	FF LOFT WALLS & SLABS	27OCT87	5NOV87	28OCT87	7NOV87	1
219H011A14	9	9	0	40	FF LOFT WALLS & SLABS	29OCT87	8NOV87	31OCT87	9NOV87	1
219H010A14	9	9	0	41	FF LOFT WALLS & SLABS	1NOV87	10NOV87	2NOV87	11NOV87	1

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 9

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
220H009A14	9	9	0	43	FF LOFT WALLS & SLABS	3NOV87	12NOV87	4NOV87	14NOV87	1
220H008A14	9	9	0	44	FF LOFT WALLS & SLABS	5NOV87	15NOV87	7NOV87	16NOV87	1
220H007A14	9	9	0	45	FF LOFT WALLS & SLABS	8NOV87	17NOV87	8NOV87	17NOV87	0
220H006A14	9	9	0	46	FF LOFT WALLS & SLABS	10NOV87	19NOV87	10NOV87	19NOV87	0
220H005A14	9	9	0	47	FF LOFT WALLS & SLABS	11NOV87	21NOV87	12NOV87	22NOV87	1
220H004A14	9	9	0	48	FF LOFT WALLS & SLABS	14NOV87	23NOV87	15NOV87	24NOV87	1
221H003A14	9	9	0	49	FF LOFT WALLS & SLABS	16NOV87	25NOV87	17NOV87	26NOV87	1
221H002A14	9	9	0	50	FF LOFT WALLS & SLABS	18NOV87	28NOV87	19NOV87	29NOV87	1
221H001A14	9	9	0	51	FF LOFT WALLS & SLABS	21NOV87	30NOV87	21NOV87	30NOV87	0
211H044A15	12	12	0	01	FF ROOF	10AUG87	23AUG87	15AUG87	27AUG87	7
211H043A15	12	12	0	02	FF ROOF	10AUG87	23AUG87	18AUG87	31AUG87	4
211H042A15	12	12	0	03	FF ROOF	10AUG87	23AUG87	20AUG87	25SEP87	9
213H035A15	12	12	0	04	FF ROOF	22AUG87	3SEP87	23AUG87	5SEP87	1
213H036A15	12	12	0	05	FF ROOF	22AUG87	3SEP87	25AUG87	7SEP87	3
213H037A15	12	12	0	06	FF ROOF	22AUG87	3SEP87	26AUG87	8SEP87	4
213H032A15	12	12	0	07	FF ROOF	26AUG87	8SEP87	29AUG87	10SEP87	2
213H033A15	12	12	0	08	FF ROOF	29AUG87	10SEP87	31AUG87	13SEP87	2
213H034A15	12	12	0	09	FF ROOF	1SEP87	14SEP87	2SEP87	15SEP87	1
323H185A15	12	12	0	10	FF ROOF	1SEP87	14SEP87	5SEP87	17SEP87	3
323H186A15	12	12	0	11	FF ROOF	6SEP87	19SEP87	7SEP87	20SEP87	3
323H187A15	12	12	0	12	FF ROOF	6SEP87	19SEP87	8SEP87	21SEP87	2
322H188A15	12	12	0	13	FF ROOF	8SEP87	21SEP87	10SEP87	23SEP87	2
322H189A15	12	12	0	14	FF ROOF	12SEP87	24SEP87	13SEP87	26SEP87	1
322H190A15	12	12	0	15	FF ROOF	13SEP87	26SEP87	15SEP87	28SEP87	2
321H174A15	12	12	0	16	FF ROOF	16SEP87	29SEP87	17SEP87	30SEP87	1
321H175A15	12	12	0	17	FF ROOF	19SEP87	1OCT87	20SEP87	3OCT87	1
320H176A15	12	12	0	18	FF ROOF	21SEP87	4OCT87	22SEP87	5OCT87	1
320H177A15	12	12	0	19	FF ROOF	22SEP87	5OCT87	23SEP87	6OCT87	1
320H178A15	12	12	0	20	FF ROOF	23SEP87	6OCT87	24SEP87	8OCT87	2
214H031A15	12	12	0	21	FF ROOF	27SEP87	10OCT87	28SEP87	11OCT87	1
214H030A15	12	12	0	22	FF ROOF	29SEP87	12OCT87	30SEP87	13OCT87	1
214H029A15	12	12	0	23	FF ROOF	1OCT87	14OCT87	3OCT87	15OCT87	1
214H028A15	12	12	0	24	FF ROOF	4OCT87	17OCT87	5OCT87	18OCT87	1
215H027A15	12	12	0	25	FF ROOF	6OCT87	19OCT87	6OCT87	19OCT87	0
215H026A15	12	12	0	26	FF ROOF	7OCT87	20OCT87	8OCT87	21OCT87	1
215H025A15	12	12	0	27	FF ROOF	10OCT87	22OCT87	11OCT87	24OCT87	1
215H024A15	12	12	0	28	FF ROOF	12OCT87	25OCT87	13OCT87	26OCT87	1
215H023A15	12	12	0	29	FF ROOF	14OCT87	27OCT87	15OCT87	28OCT87	1
215H022A15	12	12	0	30	FF ROOF	17OCT87	29OCT87	18OCT87	31OCT87	1
216H021A15	12	12	0	31	FF ROOF	19OCT87	1NOV87	20OCT87	2NOV87	1
216H020A15	12	12	0	32	FF ROOF	21OCT87	3NOV87	21OCT87	3NOV87	0
216H019A15	12	12	0	33	FF ROOF	22OCT87	4NOV87	24OCT87	5NOV87	1
216H018A15	12	12	0	34	FF ROOF	25OCT87	7NOV87	26OCT87	8NOV87	1
217H017A15	12	12	0	35	FF ROOF	27OCT87	9NOV87	28OCT87	10NOV87	1
217H016A15	12	12	0	36	FF ROOF	29OCT87	11NOV87	31OCT87	12NOV87	1
218H015A15	12	12	0	37	FF ROOF	1NOV87	14NOV87	2NOV87	15NOV87	1
218H014A15	12	12	0	38	FF ROOF	3NOV87	16NOV87	3NOV87	16NOV87	0
218H013A15	12	12	0	39	FF ROOF	5NOV87	18NOV87	5NOV87	18NOV87	0
219H012A15	12	12	0	40	FF ROOF	7NOV87	19NOV87	8NOV87	21NOV87	1
219H011A15	12	12	0	41	FF ROOF	9NOV87	22NOV87	10NOV87	23NOV87	1
219H010A15	12	12	0	42	FF ROOF	11NOV87	24NOV87	12NOV87	25NOV87	1
220H009A15	12	12	0	43	FF ROOF	14NOV87	26NOV87	15NOV87	28NOV87	1
220H008A15	12	12	0	44	FF ROOF	16NOV87	29NOV87	17NOV87	30NOV87	1
220H007A15	12	12	0	45	FF ROOF	18NOV87	1DEC87	18NOV87	1DEC87	0
220H006A15	12	12	0	46	FF ROOF	21NOV87	3DEC87	21NOV87	3DEC87	0
220H005A15	12	12	0	47	FF ROOF	22NOV87	5DEC87	23NOV87	6DEC87	1
220H004A15	12	12	0	48	FF ROOF	24NOV87	7DEC87	25NOV87	8DEC87	1
221H003A15	12	12	0	49	FF ROOF	26NOV87	9DEC87	28NOV87	10DEC87	1
221H002A15	12	12	0	50	FF ROOF	29NOV87	12DEC87	30NOV87	13DEC87	1
221H001A15	12	12	0	51	FF ROOF	1DEC87	14DEC87	1DEC87	14DEC87	0
211H044A16	9	9	0	01	PENTHOUSE COLUMNS & ROOF	24AUG87	2SEP87	3SEP87	13SEP87	9
211H043A16	9	9	0	02	PENTHOUSE COLUMNS & ROOF	24AUG87	2SEP87	6SEP87	15SEP87	11
211H042A16	9	9	0	03	PENTHOUSE COLUMNS & ROOF	24AUG87	2SEP87	8SEP87	17SEP87	13
213H035A16	9	9	0	04	PENTHOUSE COLUMNS & ROOF	5SEP87	14SEP87	10SEP87	20SEP87	5
213H036A16	9	9	0	05	PENTHOUSE COLUMNS & ROOF	5SEP87	14SEP87	13SEP87	22SEP87	7
213H037A16	9	9	0	06	PENTHOUSE COLUMNS & ROOF	5SEP87	14SEP87	15SEP87	24SEP87	9
213H032A16	9	9	0	07	PENTHOUSE COLUMNS & ROOF	9SEP87	19SEP87	16SEP87	26SEP87	6
213H033A16	9	9	0	08	PENTHOUSE COLUMNS & ROOF	12SEP87	21SEP87	20SEP87	29SEP87	7
213H034A16	9	9	0	09	PENTHOUSE COLUMNS & ROOF	15SEP87	24SEP87	22SEP87	1OCT87	6
323H185A16	9	9	0	10	PENTHOUSE COLUMNS & ROOF	15SEP87	24SEP87	24SEP87	4OCT87	8
323H186A16	9	9	0	11	PENTHOUSE COLUMNS & ROOF	20SEP87	29SEP87	27SEP87	6OCT87	6
323H187A16	9	9	0	12	PENTHOUSE COLUMNS & ROOF	20SEP87	29SEP87	28SEP87	7OCT87	7
322H188A16	9	9	0	13	PENTHOUSE COLUMNS & ROOF	22SEP87	1OCT87	30SEP87	10OCT87	7
322H189A16	9	9	0	14	PENTHOUSE COLUMNS & ROOF	26SEP87	5OCT87	3OCT87	12OCT87	6
322H190A16	9	9	0	15	PENTHOUSE COLUMNS & ROOF	29SEP87	8OCT87	5OCT87	14OCT87	5
321H174A16	9	9	0	16	PENTHOUSE COLUMNS & ROOF	30SEP87	10OCT87	7OCT87	17OCT87	6
321H175A16	9	9	0	17	PENTHOUSE COLUMNS & ROOF	3OCT87	12OCT87	10OCT87	19OCT87	6
320H176A16	9	9	0	18	PENTHOUSE COLUMNS & ROOF	5OCT87	14OCT87	11OCT87	20OCT87	5
320H177A16	9	9	0	19	PENTHOUSE COLUMNS & ROOF	6OCT87	15OCT87	14OCT87	24OCT87	7
320H178A16	9	9	0	20	PENTHOUSE COLUMNS & ROOF	10OCT87	19OCT87	17OCT87	26OCT87	6
214H031A16	9	9	0	21	PENTHOUSE COLUMNS & ROOF	11OCT87	20OCT87	19OCT87	28OCT87	7
214H030A16	9	9	0	22	PENTHOUSE COLUMNS & ROOF	14OCT87	24OCT87	21OCT87	31OCT87	6
214H029A16	9	9	0	23	PENTHOUSE COLUMNS & ROOF	15OCT87	25OCT87	22OCT87	1NOV87	6
214H028A16	9	9	0	24	PENTHOUSE COLUMNS & ROOF	18OCT87	27OCT87	25OCT87	3NOV87	6
215H027A16	9	9	0	25	PENTHOUSE COLUMNS & ROOF	20OCT87	29OCT87	27OCT87	5NOV87	6
215H026A16	9	9	0	26	PENTHOUSE COLUMNS & ROOF	24OCT87	2NOV87	29OCT87	8NOV87	5
215H025A16	9	9	0	27	PENTHOUSE COLUMNS & ROOF	25OCT87	3NOV87	1NOV87	10NOV87	6
215H024A16	9	9	0	28	PENTHOUSE COLUMNS & ROOF	27OCT87	5NOV87	3NOV87	12NOV87	6
215H023A16	9	9	0	29	PENTHOUSE COLUMNS & ROOF	29OCT87	8NOV87	4NOV87	14NOV87	5
215H022A16	9	9	0	30	PENTHOUSE COLUMNS & ROOF	31OCT87	9NOV87	8NOV87	17NOV87	7
216H021A16	9	9	0	31	PENTHOUSE COLUMNS & ROOF	3NOV87	12NOV87	10NOV87	19NOV87	6
216H020A16	9	9	0	32	PENTHOUSE COLUMNS & ROOF	4NOV87	14NOV87	12NOV87	22NOV87	7
216H019A16	9	9	0	33	PENTHOUSE COLUMNS & ROOF	8NOV87	17NOV87	15NOV87	24NOV87	6
216H018A16	9	9	0	34	PENTHOUSE COLUMNS & ROOF	9NOV87	18NOV87	16NOV87	25NOV87	6
217H017A16	9	9	0	35	PENTHOUSE COLUMNS & ROOF	11NOV87	21NOV87	18NOV87	28NOV87	6
217H016A16	9	9	0	36	PENTHOUSE COLUMNS & ROOF	14NOV87	23NOV87	21NOV87	30NOV87	6

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
218H015A16	9	9	0	37	PENTHOUSE COLUMNS & ROOF	17NOV87	26NOV87	23NOV87	2DEC87	5
218H014A16	9	9	0	38	PENTHOUSE COLUMNS & ROOF	18NOV87	28NOV87	25NOV87	5DEC87	6
218H013A16	9	9	0	39	PENTHOUSE COLUMNS & ROOF	21NOV87	30NOV87	28NOV87	7DEC87	6
218H012A16	9	9	0	40	PENTHOUSE COLUMNS & ROOF	23NOV87	2DEC87	29NOV87	8DEC87	5
218H011A16	9	9	0	41	PENTHOUSE COLUMNS & ROOF	24NOV87	3DEC87	2DEC87	12DEC87	7
218H010A16	9	9	0	42	PENTHOUSE COLUMNS & ROOF	28NOV87	7DEC87	5DEC87	14DEC87	6
220H009A16	9	9	0	43	PENTHOUSE COLUMNS & ROOF	29NOV87	8DEC87	7DEC87	16DEC87	7
220H008A16	9	9	0	44	PENTHOUSE COLUMNS & ROOF	2DEC87	12DEC87	9DEC87	19DEC87	6
220H007A16	9	9	0	45	PENTHOUSE COLUMNS & ROOF	3DEC87	13DEC87	10DEC87	20DEC87	6
220H006A16	9	9	0	46	PENTHOUSE COLUMNS & ROOF	6DEC87	15DEC87	13DEC87	22DEC87	6
220H005A16	9	9	0	47	PENTHOUSE COLUMNS & ROOF	8DEC87	17DEC87	15DEC87	24DEC87	6
220H004A16	9	9	0	48	PENTHOUSE COLUMNS & ROOF	12DEC87	21DEC87	17DEC87	27DEC87	5
221H003A16	9	9	0	49	PENTHOUSE COLUMNS & ROOF	13DEC87	22DEC87	20DEC87	29DEC87	6
221H002A16	9	9	0	50	PENTHOUSE COLUMNS & ROOF	15DEC87	24DEC87	22DEC87	31DEC87	6
221H001A16	9	9	0	51	PENTHOUSE COLUMNS & ROOF	17DEC87	27DEC87	23DEC87	31JAN88	5
211H044A17	7	7	0	01	R.C. COLUMNS OF PARAPETS	24AUG87	31AUG87	23SEP87	30SEP87	26
211H043A17	7	7	0	02	R.C. COLUMNS OF PARAPETS	24AUG87	31AUG87	23SEP87	30CT87	28
211H042A17	7	7	0	03	R.C. COLUMNS OF PARAPETS	24AUG87	31AUG87	28SEP87	50CT87	30
211H035A17	7	7	0	04	R.C. COLUMNS OF PARAPETS	5SEP87	12SEP87	30SEP87	70CT87	22
211H036A17	7	7	0	05	R.C. COLUMNS OF PARAPETS	5SEP87	12SEP87	30CT87	100CT87	24
211H037A17	7	7	0	06	R.C. COLUMNS OF PARAPETS	5SEP87	12SEP87	40CT87	110CT87	25
211H032A17	7	7	0	07	R.C. COLUMNS OF PARAPETS	9SEP87	16SEP87	60CT87	130CT87	23
211H033A17	7	7	0	08	R.C. COLUMNS OF PARAPETS	13SEP87	20SEP87	80CT87	150CT87	22
211H034A17	7	7	0	09	R.C. COLUMNS OF PARAPETS	15SEP87	22SEP87	110CT87	180CT87	22
221H185A17	7	7	0	10	R.C. COLUMNS OF PARAPETS	15SEP87	22SEP87	130CT87	200CT87	24
221H186A17	7	7	0	11	R.C. COLUMNS OF PARAPETS	20SEP87	27SEP87	150CT87	220CT87	22
221H187A17	7	7	0	12	R.C. COLUMNS OF PARAPETS	21SEP87	28SEP87	170CT87	240CT87	22
221H188A17	7	7	0	13	R.C. COLUMNS OF PARAPETS	23SEP87	30SEP87	190CT87	260CT87	22
221H189A17	7	7	0	14	R.C. COLUMNS OF PARAPETS	26SEP87	30CT87	210CT87	280CT87	22
221H190A17	7	7	0	15	R.C. COLUMNS OF PARAPETS	28SEP87	50CT87	240CT87	310CT87	22
221H174A17	7	7	0	16	R.C. COLUMNS OF PARAPETS	30SEP87	70CT87	260CT87	320CT87	22
221H175A17	7	7	0	17	R.C. COLUMNS OF PARAPETS	30CT87	100CT87	280CT87	480CT87	22
220H176A17	7	7	0	18	R.C. COLUMNS OF PARAPETS	50CT87	120CT87	310CT87	780CT87	22
220H177A17	7	7	0	19	R.C. COLUMNS OF PARAPETS	60CT87	130CT87	310CT87	880CT87	22
220H178A17	7	7	0	20	R.C. COLUMNS OF PARAPETS	80CT87	150CT87	310CT87	1080CT87	22
214H031A17	7	7	0	21	R.C. COLUMNS OF PARAPETS	110CT87	180CT87	510CT87	1280CT87	22
214H030A17	7	7	0	22	R.C. COLUMNS OF PARAPETS	130CT87	200CT87	580CT87	1580CT87	22
214H029A17	7	7	0	23	R.C. COLUMNS OF PARAPETS	150CT87	220CT87	1080CT87	1780CT87	22
214H028A17	7	7	0	24	R.C. COLUMNS OF PARAPETS	180CT87	250CT87	1280CT87	1980CT87	22
215H027A17	7	7	0	25	R.C. COLUMNS OF PARAPETS	200CT87	270CT87	1480CT87	2180CT87	21
215H026A17	7	7	0	26	R.C. COLUMNS OF PARAPETS	210CT87	280CT87	1680CT87	2380CT87	22
215H025A17	7	7	0	27	R.C. COLUMNS OF PARAPETS	240CT87	310CT87	1880CT87	2580CT87	22
215H024A17	7	7	0	28	R.C. COLUMNS OF PARAPETS	260CT87	330CT87	2080CT87	2780CT87	22
215H023A17	7	7	0	29	R.C. COLUMNS OF PARAPETS	280CT87	350CT87	2280CT87	2980CT87	22
215H022A17	7	7	0	30	R.C. COLUMNS OF PARAPETS	310CT87	380CT87	2580CT87	3280CT87	22
216H021A17	7	7	0	31	R.C. COLUMNS OF PARAPETS	2NOV87	9NOV87	28NOV87	5DEC87	22
216H020A17	7	7	0	32	R.C. COLUMNS OF PARAPETS	4NOV87	11NOV87	29NOV87	6DEC87	21
216H019A17	7	7	0	33	R.C. COLUMNS OF PARAPETS	5NOV87	12NOV87	1DEC87	8DEC87	22
216H018A17	7	7	0	34	R.C. COLUMNS OF PARAPETS	8NOV87	15NOV87	3DEC87	10DEC87	22
217H017A17	7	7	0	35	R.C. COLUMNS OF PARAPETS	10NOV87	17NOV87	6DEC87	13DEC87	22
217H016A17	7	7	0	36	R.C. COLUMNS OF PARAPETS	12NOV87	19NOV87	8DEC87	15DEC87	22
218H015A17	7	7	0	37	R.C. COLUMNS OF PARAPETS	15NOV87	22NOV87	10DEC87	17DEC87	22
218H014A17	7	7	0	38	R.C. COLUMNS OF PARAPETS	17NOV87	24NOV87	12DEC87	19DEC87	21
218H013A17	7	7	0	39	R.C. COLUMNS OF PARAPETS	19NOV87	26NOV87	14DEC87	21DEC87	21
218H012A17	7	7	0	40	R.C. COLUMNS OF PARAPETS	21NOV87	28NOV87	16DEC87	23DEC87	22
218H011A17	7	7	0	41	R.C. COLUMNS OF PARAPETS	23NOV87	30NOV87	19DEC87	26DEC87	22
218H010A17	7	7	0	42	R.C. COLUMNS OF PARAPETS	25NOV87	2DEC87	21DEC87	28DEC87	22
220H009A17	7	7	0	43	R.C. COLUMNS OF PARAPETS	28NOV87	5DEC87	23DEC87	30DEC87	22
220H008A17	7	7	0	44	R.C. COLUMNS OF PARAPETS	30NOV87	7DEC87	26DEC87	33JAN88	22
220H007A17	7	7	0	45	R.C. COLUMNS OF PARAPETS	2DEC87	9DEC87	27DEC87	43JAN88	21
220H006A17	7	7	0	46	R.C. COLUMNS OF PARAPETS	5DEC87	12DEC87	29DEC87	63JAN88	22
220H005A17	7	7	0	47	R.C. COLUMNS OF PARAPETS	6DEC87	13DEC87	23JAN88	93JAN88	22
220H004A17	7	7	0	48	R.C. COLUMNS OF PARAPETS	8DEC87	15DEC87	25JAN88	113JAN88	22
221H003A17	7	7	0	49	R.C. COLUMNS OF PARAPETS	10DEC87	17DEC87	27JAN88	133JAN88	22
221H002A17	7	7	0	50	R.C. COLUMNS OF PARAPETS	13DEC87	20DEC87	30JAN88	163JAN88	22
221H001A17	7	7	0	51	R.C. COLUMNS OF PARAPETS	15DEC87	22DEC87	31JAN88	173JAN88	21
211H044A18	3	3	0	01	PRECAST WINDOWS ERECTION	7SEP87	9SEP87	30SEP87	30CT87	20
211H043A18	3	3	0	02	PRECAST WINDOWS ERECTION	7SEP87	9SEP87	40CT87	60CT87	23
211H042A18	3	3	0	03	PRECAST WINDOWS ERECTION	10SEP87	13SEP87	60CT87	80CT87	22
211H035A18	3	3	0	04	PRECAST WINDOWS ERECTION	19SEP87	21SEP87	80CT87	110CT87	17
211H036A18	3	3	0	05	PRECAST WINDOWS ERECTION	19SEP87	21SEP87	110CT87	130CT87	19
211H037A18	3	3	0	06	PRECAST WINDOWS ERECTION	22SEP87	24SEP87	120CT87	140CT87	17
213H032A18	3	3	0	07	PRECAST WINDOWS ERECTION	23SEP87	26SEP87	140CT87	170CT87	18
213H033A18	3	3	0	08	PRECAST WINDOWS ERECTION	26SEP87	28SEP87	170CT87	190CT87	17
213H034A18	3	3	0	09	PRECAST WINDOWS ERECTION	29SEP87	1OCT87	190CT87	210CT87	17
221H185A18	3	3	0	10	PRECAST WINDOWS ERECTION	29SEP87	1OCT87	210CT87	240CT87	19
221H186A18	3	3	0	11	PRECAST WINDOWS ERECTION	4OCT87	6OCT87	240CT87	260CT87	17
221H187A18	3	3	0	12	PRECAST WINDOWS ERECTION	4OCT87	6OCT87	250CT87	270CT87	18
221H188A18	3	3	0	13	PRECAST WINDOWS ERECTION	7OCT87	10OCT87	270CT87	290CT87	17
221H189A18	3	3	0	14	PRECAST WINDOWS ERECTION	10OCT87	12OCT87	290CT87	310CT87	17
221H190A18	3	3	0	15	PRECAST WINDOWS ERECTION	11OCT87	13OCT87	310CT87	330CT87	18
221H174A18	3	3	0	16	PRECAST WINDOWS ERECTION	14OCT87	17OCT87	330CT87	350CT87	17
221H175A18	3	3	0	17	PRECAST WINDOWS ERECTION	17OCT87	19OCT87	350CT87	370CT87	17
220H176A18	3	3	0	18	PRECAST WINDOWS ERECTION	19OCT87	21OCT87	370CT87	390CT87	17
220H177A18	3	3	0	19	PRECAST WINDOWS ERECTION	20OCT87	22OCT87	390CT87	410CT87	17
220H178A18	3	3	0	20	PRECAST WINDOWS ERECTION	22OCT87	24OCT87	410CT87	430CT87	17
214H031A18	3	3	0	21	PRECAST WINDOWS ERECTION	25OCT87	27OCT87	430CT87	450CT87	17
214H030A18	3	3	0	22	PRECAST WINDOWS ERECTION	27OCT87	29OCT87	450CT87	470CT87	17
214H029A18	3	3	0	23	PRECAST WINDOWS ERECTION	29OCT87	31OCT87	470CT87	490CT87	17
214H028A18	3	3	0	24	PRECAST WINDOWS ERECTION	31OCT87	3NOV87	490CT87	510CT87	17
215H027A18	3	3	0	25	PRECAST WINDOWS ERECTION	3NOV87	5NOV87	510CT87	530CT87	16
215H026A18	3	3	0	26	PRECAST WINDOWS ERECTION	4NOV87	7NOV87	530CT87	550CT87	17
215H025A18	3	3	0	27	PRECAST WINDOWS ERECTION	7NOV87	9NOV87	550CT87	570CT87	17
215H024A18	3	3	0	28	PRECAST WINDOWS ERECTION	9NOV87	11NOV87	570CT87	590CT87	17
215H023A18	3	3	0	29	PRECAST WINDOWS ERECTION	11NOV87	14NOV87	590CT87	610CT87	17
215H022A18	3	3	0	30	PRECAST WINDOWS ERECTION	14NOV87	16NOV87	610CT87	630CT87	17

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
216H021A18	3	3	0	31	PRECAST WINDOWS ERECTION	16NOV87	18NOV87	6DEC87	8DEC87	17
216H020A18	3	3	0	32	PRECAST WINDOWS ERECTION	18NOV87	21NOV87	7DEC87	9DEC87	16
216H019A18	3	3	0	33	PRECAST WINDOWS ERECTION	19NOV87	22NOV87	9DEC87	12DEC87	17
216H018A18	3	3	0	34	PRECAST WINDOWS ERECTION	22NOV87	24NOV87	12DEC87	14DEC87	17
217H017A18	3	3	0	35	PRECAST WINDOWS ERECTION	24NOV87	26NOV87	14DEC87	16DEC87	17
217H016A18	3	3	0	36	PRECAST WINDOWS ERECTION	26NOV87	29NOV87	16DEC87	19DEC87	17
218H015A18	3	3	0	37	PRECAST WINDOWS ERECTION	29NOV87	1DEC87	19DEC87	21DEC87	17
218H014A18	3	3	0	38	PRECAST WINDOWS ERECTION	1DEC87	3DEC87	20DEC87	22DEC87	16
218H013A18	3	3	0	39	PRECAST WINDOWS ERECTION	3DEC87	6DEC87	22DEC87	24DEC87	16
219H012A18	3	3	0	40	PRECAST WINDOWS ERECTION	5DEC87	7DEC87	24DEC87	27DEC87	17
219H011A18	3	3	0	41	PRECAST WINDOWS ERECTION	7DEC87	9DEC87	27DEC87	29DEC87	17
219H010A18	3	3	0	42	PRECAST WINDOWS ERECTION	9DEC87	12DEC87	29DEC87	2JAN88	17
220H009A18	3	3	0	43	PRECAST WINDOWS ERECTION	12DEC87	14DEC87	2JAN88	4JAN88	17
220H008A18	3	3	0	44	PRECAST WINDOWS ERECTION	14DEC87	16DEC87	4JAN88	6JAN88	17
220H007A18	3	3	0	45	PRECAST WINDOWS ERECTION	16DEC87	19DEC87	5JAN88	7JAN88	16
220H006A18	3	3	0	46	PRECAST WINDOWS ERECTION	19DEC87	22DEC87	7JAN88	10JAN88	16
220H005A18	3	3	0	47	PRECAST WINDOWS ERECTION	20DEC87	22DEC87	10JAN88	12JAN88	17
220H004A18	3	3	0	48	PRECAST WINDOWS ERECTION	22DEC87	24DEC87	12JAN88	14JAN88	17
221H003A18	3	3	0	49	PRECAST WINDOWS ERECTION	24DEC87	27DEC87	14JAN88	17JAN88	17
221H002A18	3	3	0	50	PRECAST WINDOWS ERECTION	27DEC87	29DEC87	17JAN88	19JAN88	17
221H001A18	3	3	0	51	PRECAST WINDOWS ERECTION	29DEC87	2JAN88	18JAN88	20JAN88	16
211H044A19	5	5	0	01	BLOCK WORKS OF PARAPETS	1SEP87	6SEP87	1OCT87	6OCT87	26
211H043A19	5	5	0	02	BLOCK WORKS OF PARAPETS	1SEP87	6SEP87	4OCT87	8OCT87	28
211H042A19	5	5	0	03	BLOCK WORKS OF PARAPETS	1SEP87	6SEP87	6OCT87	11OCT87	30
213H035A19	5	5	0	04	BLOCK WORKS OF PARAPETS	13SEP87	17SEP87	8OCT87	13OCT87	22
213H036A19	5	5	0	05	BLOCK WORKS OF PARAPETS	13SEP87	17SEP87	11OCT87	15OCT87	24
213H037A19	5	5	0	06	BLOCK WORKS OF PARAPETS	13SEP87	17SEP87	12OCT87	17OCT87	25
213H032A19	5	5	0	07	BLOCK WORKS OF PARAPETS	19SEP87	23SEP87	14OCT87	19OCT87	22
213H033A19	5	5	0	08	BLOCK WORKS OF PARAPETS	21SEP87	26SEP87	17OCT87	21OCT87	22
213H034A19	5	5	0	09	BLOCK WORKS OF PARAPETS	23SEP87	28SEP87	19OCT87	24OCT87	22
323H185A19	5	5	0	10	BLOCK WORKS OF PARAPETS	24SEP87	29SEP87	21OCT87	26OCT87	23
323H186A19	5	5	0	11	BLOCK WORKS OF PARAPETS	28SEP87	3OCT87	24OCT87	28OCT87	23
323H187A19	5	5	0	12	BLOCK WORKS OF PARAPETS	29SEP87	4OCT87	25OCT87	29OCT87	22
322H188A19	5	5	0	13	BLOCK WORKS OF PARAPETS	1OCT87	6OCT87	27OCT87	1NOV87	22
322H189A19	5	5	0	14	BLOCK WORKS OF PARAPETS	4OCT87	8OCT87	29OCT87	3NOV87	22
322H190A19	5	5	0	15	BLOCK WORKS OF PARAPETS	6OCT87	11OCT87	1NOV87	5NOV87	22
322H174A19	5	5	0	16	BLOCK WORKS OF PARAPETS	8OCT87	13OCT87	3NOV87	8NOV87	22
322H175A19	5	5	0	17	BLOCK WORKS OF PARAPETS	11OCT87	15OCT87	5NOV87	10NOV87	22
320H176A19	5	5	0	18	BLOCK WORKS OF PARAPETS	13OCT87	18OCT87	8NOV87	12NOV87	22
320H177A19	5	5	0	19	BLOCK WORKS OF PARAPETS	14OCT87	19OCT87	9NOV87	14NOV87	22
320H178A19	5	5	0	20	BLOCK WORKS OF PARAPETS	17OCT87	21OCT87	11NOV87	16NOV87	22
214H031A19	5	5	0	21	BLOCK WORKS OF PARAPETS	19OCT87	24OCT87	14NOV87	18NOV87	22
214H030A19	5	5	0	22	BLOCK WORKS OF PARAPETS	21OCT87	26OCT87	16NOV87	21NOV87	22
214H029A19	5	5	0	23	BLOCK WORKS OF PARAPETS	24OCT87	29OCT87	18NOV87	23NOV87	22
214H028A19	5	5	0	24	BLOCK WORKS OF PARAPETS	26OCT87	31OCT87	21NOV87	25NOV87	22
215H027A19	5	5	0	25	BLOCK WORKS OF PARAPETS	28OCT87	2NOV87	22NOV87	26NOV87	21
215H026A19	5	5	0	26	BLOCK WORKS OF PARAPETS	29OCT87	3NOV87	24NOV87	29NOV87	22
215H025A19	5	5	0	27	BLOCK WORKS OF PARAPETS	1NOV87	5NOV87	26NOV87	1DEC87	22
215H024A19	5	5	0	28	BLOCK WORKS OF PARAPETS	3NOV87	8NOV87	29NOV87	3DEC87	22
215H023A19	5	5	0	29	BLOCK WORKS OF PARAPETS	5NOV87	10NOV87	1DEC87	6DEC87	22
215H022A19	5	5	0	30	BLOCK WORKS OF PARAPETS	8NOV87	12NOV87	3DEC87	8DEC87	22
216H021A19	5	5	0	31	BLOCK WORKS OF PARAPETS	10NOV87	15NOV87	6DEC87	10DEC87	22
216H020A19	5	5	0	32	BLOCK WORKS OF PARAPETS	12NOV87	17NOV87	7DEC87	12DEC87	21
216H019A19	5	5	0	33	BLOCK WORKS OF PARAPETS	14NOV87	18NOV87	9DEC87	14DEC87	22
216H018A19	5	5	0	34	BLOCK WORKS OF PARAPETS	16NOV87	21NOV87	12DEC87	16DEC87	22
217H017A19	5	5	0	35	BLOCK WORKS OF PARAPETS	18NOV87	23NOV87	14DEC87	19DEC87	22
217H016A19	5	5	0	36	BLOCK WORKS OF PARAPETS	21NOV87	25NOV87	16DEC87	21DEC87	22
218H015A19	5	5	0	37	BLOCK WORKS OF PARAPETS	23NOV87	28NOV87	19DEC87	23DEC87	22
218H014A19	5	5	0	38	BLOCK WORKS OF PARAPETS	25NOV87	30NOV87	20DEC87	24DEC87	21
218H013A19	5	5	0	39	BLOCK WORKS OF PARAPETS	28NOV87	2DEC87	22DEC87	27DEC87	22
219H012A19	5	5	0	40	BLOCK WORKS OF PARAPETS	29NOV87	3DEC87	24DEC87	29DEC87	22
219H011A19	5	5	0	41	BLOCK WORKS OF PARAPETS	1DEC87	6DEC87	27DEC87	2JAN88	22
219H010A19	5	5	0	42	BLOCK WORKS OF PARAPETS	3DEC87	8DEC87	29DEC87	4JAN88	22
220H009A19	5	5	0	43	BLOCK WORKS OF PARAPETS	6DEC87	10DEC87	2JAN88	6JAN88	22
220H008A19	5	5	0	44	BLOCK WORKS OF PARAPETS	8DEC87	13DEC87	4JAN88	8JAN88	22
220H007A19	5	5	0	45	BLOCK WORKS OF PARAPETS	10DEC87	15DEC87	5JAN88	10JAN88	21
220H006A19	5	5	0	46	BLOCK WORKS OF PARAPETS	13DEC87	17DEC87	7JAN88	12JAN88	22
220H005A19	5	5	0	47	BLOCK WORKS OF PARAPETS	14DEC87	19DEC87	10JAN88	14JAN88	22
220H004A19	5	5	0	48	BLOCK WORKS OF PARAPETS	16DEC87	21DEC87	12JAN88	17JAN88	22
221H003A19	5	5	0	49	BLOCK WORKS OF PARAPETS	19DEC87	23DEC87	14JAN88	19JAN88	22
221H002A19	5	5	0	50	BLOCK WORKS OF PARAPETS	21DEC87	26DEC87	17JAN88	21JAN88	22
221H001A19	5	5	0	51	BLOCK WORKS OF PARAPETS	23DEC87	28DEC87	18JAN88	23JAN88	21
211H044A20	21	21	0	01	GF & FF CEMENT BLOCK WORKS	7SEP87	30SEP87	12SEP87	5OCT87	4
211H043A20	21	21	0	02	GF & FF CEMENT BLOCK WORKS	7SEP87	30SEP87	15SEP87	8OCT87	7
211H042A20	21	21	0	03	GF & FF CEMENT BLOCK WORKS	7SEP87	30SEP87	17SEP87	11OCT87	9
213H035A20	21	21	0	04	GF & FF CEMENT BLOCK WORKS	19SEP87	12OCT87	20SEP87	13OCT87	1
213H036A20	21	21	0	05	GF & FF CEMENT BLOCK WORKS	19SEP87	12OCT87	22SEP87	15OCT87	3
213H037A20	21	21	0	06	GF & FF CEMENT BLOCK WORKS	19SEP87	12OCT87	23SEP87	17OCT87	4
213H032A20	21	21	0	07	GF & FF CEMENT BLOCK WORKS	23SEP87	17OCT87	26SEP87	19OCT87	2
213H033A20	21	21	0	08	GF & FF CEMENT BLOCK WORKS	26SEP87	19OCT87	28SEP87	21OCT87	2
213H034A20	21	21	0	09	GF & FF CEMENT BLOCK WORKS	29SEP87	22OCT87	30SEP87	24OCT87	1
323H185A20	21	21	0	10	GF & FF CEMENT BLOCK WORKS	29SEP87	22OCT87	3OCT87	26OCT87	3
323H186A20	21	21	0	11	GF & FF CEMENT BLOCK WORKS	4OCT87	27OCT87	5OCT87	28OCT87	1
323H187A20	21	21	0	12	GF & FF CEMENT BLOCK WORKS	4OCT87	27OCT87	6OCT87	29OCT87	2
322H188A20	21	21	0	13	GF & FF CEMENT BLOCK WORKS	6OCT87	29OCT87	8OCT87	1NOV87	2
322H189A20	21	21	0	14	GF & FF CEMENT BLOCK WORKS	10OCT87	2NOV87	11OCT87	3NOV87	1
322H190A20	21	21	0	15	GF & FF CEMENT BLOCK WORKS	13OCT87	3NOV87	13OCT87	5NOV87	2
322H174A20	21	21	0	16	GF & FF CEMENT BLOCK WORKS	14OCT87	7NOV87	15OCT87	8NOV87	1
322H175A20	21	21	0	17	GF & FF CEMENT BLOCK WORKS	17OCT87	9NOV87	18OCT87	10NOV87	1
320H176A20	21	21	0	18	GF & FF CEMENT BLOCK WORKS	19OCT87	11NOV87	20OCT87	12NOV87	1
320H177A20	21	21	0	19	GF & FF CEMENT BLOCK WORKS	20OCT87	12NOV87	21OCT87	14NOV87	1
320H178A20	21	21	0	20	GF & FF CEMENT BLOCK WORKS	21OCT87	14NOV87	24OCT87	16NOV87	2
214H031A20	21	21	0	21	GF & FF CEMENT BLOCK WORKS	25OCT87	17NOV87	26OCT87	18NOV87	1
214H030A20	21	21	0	22	GF & FF CEMENT BLOCK WORKS	27OCT87	19NOV87	28OCT87	21NOV87	1
214H029A20	21	21	0	23	GF & FF CEMENT BLOCK WORKS	29OCT87	22NOV87	31OCT87	23NOV87	1
214H028A20	21	21	0	24	GF & FF CEMENT BLOCK WORKS	1NOV87	24NOV87	2NOV87	25NOV87	1

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
215H027A20	21	21	0	25	GF & FF CEMENT BLOCK WORKS	3NOV87	26NOV87	3NOV87	26NOV87	0
215H026A20	21	21	0	26	GF & FF CEMENT BLOCK WORKS	4NOV87	28NOV87	5NOV87	29NOV87	1
215H025A20	21	21	0	27	GF & FF CEMENT BLOCK WORKS	7NOV87	30NOV87	8NOV87	1DEC87	1
215H024A20	21	21	0	28	GF & FF CEMENT BLOCK WORKS	9NOV87	2DEC87	10NOV87	3DEC87	1
215H023A20	21	21	0	29	GF & FF CEMENT BLOCK WORKS	11NOV87	5DEC87	12NOV87	6DEC87	1
215H022A20	21	21	0	30	GF & FF CEMENT BLOCK WORKS	14NOV87	7DEC87	15NOV87	8DEC87	1
216H021A20	21	21	0	31	GF & FF CEMENT BLOCK WORKS	16NOV87	9DEC87	17NOV87	10DEC87	1
216H020A20	21	21	0	32	GF & FF CEMENT BLOCK WORKS	18NOV87	12DEC87	18NOV87	12DEC87	0
216H019A20	21	21	0	33	GF & FF CEMENT BLOCK WORKS	19NOV87	13DEC87	21NOV87	14DEC87	1
216H018A20	21	21	0	34	GF & FF CEMENT BLOCK WORKS	22NOV87	15DEC87	23NOV87	16DEC87	1
217H017A20	21	21	0	35	GF & FF CEMENT BLOCK WORKS	24NOV87	17DEC87	25NOV87	19DEC87	1
217H016A20	21	21	0	36	GF & FF CEMENT BLOCK WORKS	26NOV87	20DEC87	28NOV87	21DEC87	1
218H015A20	21	21	0	37	GF & FF CEMENT BLOCK WORKS	29NOV87	22DEC87	30NOV87	23DEC87	1
218H014A20	21	21	0	38	GF & FF CEMENT BLOCK WORKS	1DEC87	24DEC87	1DEC87	24DEC87	0
218H013A20	21	21	0	39	GF & FF CEMENT BLOCK WORKS	3DEC87	27DEC87	3DEC87	27DEC87	0
219H012A20	21	21	0	40	GF & FF CEMENT BLOCK WORKS	5DEC87	28DEC87	6DEC87	29DEC87	1
219H011A20	21	21	0	41	GF & FF CEMENT BLOCK WORKS	7DEC87	30DEC87	8DEC87	2JAN88	1
219H010A20	21	21	0	42	GF & FF CEMENT BLOCK WORKS	9DEC87	3JAN88	10DEC87	4JAN88	1
220H009A20	21	21	0	43	GF & FF CEMENT BLOCK WORKS	12DEC87	5JAN88	13DEC87	6JAN88	1
220H008A20	21	21	0	44	GF & FF CEMENT BLOCK WORKS	14DEC87	7JAN88	15DEC87	9JAN88	1
220H007A20	21	21	0	45	GF & FF CEMENT BLOCK WORKS	16DEC87	10JAN88	16DEC87	10JAN88	0
220H006A20	21	21	0	46	GF & FF CEMENT BLOCK WORKS	19DEC87	12JAN88	19DEC87	12JAN88	0
220H005A20	21	21	0	47	GF & FF CEMENT BLOCK WORKS	20DEC87	13JAN88	21DEC87	14JAN88	1
220H004A20	21	21	0	48	GF & FF CEMENT BLOCK WORKS	22DEC87	16JAN88	23DEC87	17JAN88	1
221H003A20	21	21	0	49	GF & FF CEMENT BLOCK WORKS	24DEC87	18JAN88	26DEC87	19JAN88	1
221H002A20	21	21	0	50	GF & FF CEMENT BLOCK WORKS	27DEC87	20JAN88	28DEC87	21JAN88	1
211H044A21	5	5	0	01	BLOCK WORKS OF PENTHOUSE	29DEC87	23JAN88	29DEC87	23JAN88	0
211H043A21	5	5	0	02	BLOCK WORKS OF PENTHOUSE	17SEP87	22SEP87	1OCT87	6OCT87	12
211H042A21	5	5	0	03	BLOCK WORKS OF PENTHOUSE	17SEP87	22SEP87	4OCT87	8OCT87	14
213H035A21	5	5	0	04	BLOCK WORKS OF PENTHOUSE	17SEP87	22SEP87	6OCT87	11OCT87	16
213H036A21	5	5	0	05	BLOCK WORKS OF PENTHOUSE	29SEP87	4OCT87	8OCT87	13OCT87	8
213H037A21	5	5	0	06	BLOCK WORKS OF PENTHOUSE	29SEP87	4OCT87	11OCT87	15OCT87	10
213H038A21	5	5	0	07	BLOCK WORKS OF PENTHOUSE	29SEP87	4OCT87	12OCT87	17OCT87	11
213H039A21	5	5	0	08	BLOCK WORKS OF PENTHOUSE	5OCT87	10OCT87	14OCT87	19OCT87	8
213H040A21	5	5	0	09	BLOCK WORKS OF PENTHOUSE	6OCT87	11OCT87	17OCT87	21OCT87	9
213H041A21	5	5	0	10	BLOCK WORKS OF PENTHOUSE	10OCT87	14OCT87	19OCT87	24OCT87	8
213H042A21	5	5	0	11	BLOCK WORKS OF PENTHOUSE	11OCT87	15OCT87	21OCT87	26OCT87	9
213H043A21	5	5	0	12	BLOCK WORKS OF PENTHOUSE	14OCT87	19OCT87	24OCT87	28OCT87	8
213H044A21	5	5	0	13	BLOCK WORKS OF PENTHOUSE	15OCT87	20OCT87	25OCT87	29OCT87	8
213H045A21	5	5	0	14	BLOCK WORKS OF PENTHOUSE	17OCT87	21OCT87	27OCT87	1NOV87	9
213H046A21	5	5	0	15	BLOCK WORKS OF PENTHOUSE	20OCT87	25OCT87	29OCT87	3NOV87	8
213H047A21	5	5	0	16	BLOCK WORKS OF PENTHOUSE	24OCT87	28OCT87	1NOV87	5NOV87	7
213H048A21	5	5	0	17	BLOCK WORKS OF PENTHOUSE	25OCT87	29OCT87	3NOV87	8NOV87	8
213H049A21	5	5	0	18	BLOCK WORKS OF PENTHOUSE	27OCT87	1NOV87	5NOV87	10NOV87	8
213H050A21	5	5	0	19	BLOCK WORKS OF PENTHOUSE	29OCT87	3NOV87	8NOV87	12NOV87	8
213H051A21	5	5	0	20	BLOCK WORKS OF PENTHOUSE	31OCT87	4NOV87	9NOV87	14NOV87	8
213H052A21	5	5	0	21	BLOCK WORKS OF PENTHOUSE	3NOV87	8NOV87	11NOV87	16NOV87	7
213H053A21	5	5	0	22	BLOCK WORKS OF PENTHOUSE	4NOV87	9NOV87	14NOV87	18NOV87	8
213H054A21	5	5	0	23	BLOCK WORKS OF PENTHOUSE	8NOV87	12NOV87	16NOV87	21NOV87	7
213H055A21	5	5	0	24	BLOCK WORKS OF PENTHOUSE	9NOV87	14NOV87	18NOV87	23NOV87	8
213H056A21	5	5	0	25	BLOCK WORKS OF PENTHOUSE	11NOV87	16NOV87	21NOV87	25NOV87	8
213H057A21	5	5	0	26	BLOCK WORKS OF PENTHOUSE	14NOV87	18NOV87	22NOV87	26NOV87	7
213H058A21	5	5	0	27	BLOCK WORKS OF PENTHOUSE	17NOV87	22NOV87	24NOV87	29NOV87	6
213H059A21	5	5	0	28	BLOCK WORKS OF PENTHOUSE	18NOV87	23NOV87	26NOV87	1DEC87	7
213H060A21	5	5	0	29	BLOCK WORKS OF PENTHOUSE	21NOV87	25NOV87	29NOV87	3DEC87	7
213H061A21	5	5	0	30	BLOCK WORKS OF PENTHOUSE	23NOV87	28NOV87	1DEC87	6DEC87	7
213H062A21	5	5	0	31	BLOCK WORKS OF PENTHOUSE	24NOV87	29NOV87	3DEC87	8DEC87	8
213H063A21	5	5	0	32	BLOCK WORKS OF PENTHOUSE	28NOV87	2DEC87	6DEC87	10DEC87	7
213H064A21	5	5	0	33	BLOCK WORKS OF PENTHOUSE	29NOV87	3DEC87	7DEC87	12DEC87	7
213H065A21	5	5	0	34	BLOCK WORKS OF PENTHOUSE	2DEC87	7DEC87	9DEC87	14DEC87	6
213H066A21	5	5	0	35	BLOCK WORKS OF PENTHOUSE	3DEC87	8DEC87	12DEC87	16DEC87	7
213H067A21	5	5	0	36	BLOCK WORKS OF PENTHOUSE	6DEC87	10DEC87	14DEC87	19DEC87	7
213H068A21	5	5	0	37	BLOCK WORKS OF PENTHOUSE	8DEC87	13DEC87	16DEC87	21DEC87	7
213H069A21	5	5	0	38	BLOCK WORKS OF PENTHOUSE	12DEC87	16DEC87	19DEC87	23DEC87	6
213H070A21	5	5	0	39	BLOCK WORKS OF PENTHOUSE	13DEC87	17DEC87	20DEC87	24DEC87	6
213H071A21	5	5	0	40	BLOCK WORKS OF PENTHOUSE	15DEC87	20DEC87	22DEC87	27DEC87	6
213H072A21	5	5	0	41	BLOCK WORKS OF PENTHOUSE	17DEC87	22DEC87	24DEC87	29DEC87	6
213H073A21	5	5	0	42	BLOCK WORKS OF PENTHOUSE	19DEC87	23DEC87	27DEC87	2JAN88	7
213H074A21	5	5	0	43	BLOCK WORKS OF PENTHOUSE	23DEC87	27DEC87	29DEC87	4JAN88	6
213H075A21	5	5	0	44	BLOCK WORKS OF PENTHOUSE	23DEC87	27DEC87	29DEC87	4JAN88	6
213H076A21	5	5	0	45	BLOCK WORKS OF PENTHOUSE	27DEC87	31DEC87	3JAN88	6JAN88	7
213H077A21	5	5	0	46	BLOCK WORKS OF PENTHOUSE	28DEC87	3JAN88	5JAN88	10JAN88	6
213H078A21	5	5	0	47	BLOCK WORKS OF PENTHOUSE	30DEC87	5JAN88	7JAN88	12JAN88	6
213H079A21	5	5	0	48	BLOCK WORKS OF PENTHOUSE	3JAN88	7JAN88	10JAN88	14JAN88	6
213H080A21	5	5	0	49	BLOCK WORKS OF PENTHOUSE	6JAN88	11JAN88	12JAN88	17JAN88	5
213H081A21	5	5	0	50	BLOCK WORKS OF PENTHOUSE	7JAN88	12JAN88	14JAN88	19JAN88	5
213H082A21	5	5	0	51	BLOCK WORKS OF PENTHOUSE	10JAN88	14JAN88	17JAN88	21JAN88	6
213H083A21	5	5	0	52	BLOCK WORKS OF PENTHOUSE	12JAN88	17JAN88	18JAN88	23JAN88	5
213H084A21	3	3	0	01	ROOF DRAINS	23SEP87	26SEP87	26OCT87	28OCT87	28
213H085A21	3	3	0	02	ROOF DRAINS	23SEP87	26SEP87	29OCT87	1NOV87	31
213H086A21	3	3	0	03	ROOF DRAINS	27SEP87	29SEP87	1NOV87	3NOV87	30
213H087A21	3	3	0	04	ROOF DRAINS	5OCT87	7OCT87	4NOV87	7NOV87	26
213H088A21	3	3	0	05	ROOF DRAINS	5OCT87	7OCT87	7NOV87	9NOV87	28
213H089A21	3	3	0	06	ROOF DRAINS	8OCT87	11OCT87	9NOV87	11NOV87	27
213H090A21	3	3	0	07	ROOF DRAINS	11OCT87	13OCT87	12NOV87	15NOV87	28
213H091A21	3	3	0	08	ROOF DRAINS	12OCT87	14OCT87	15NOV87	17NOV87	29
213H092A21	3	3	0	09	ROOF DRAINS	15OCT87	18OCT87	18NOV87	21NOV87	29
213H093A21	3	3	0	10	ROOF DRAINS	17OCT87	19OCT87	21NOV87	23NOV87	30
213H094A21	3	3	0	11	ROOF DRAINS	20OCT87	22OCT87	23NOV87	25NOV87	29
213H095A21	3	3	0	12	ROOF DRAINS	21OCT87	24OCT87	26NOV87	29NOV87	31
213H096A21	3	3	0	13	ROOF DRAINS	24OCT87	26OCT87	29NOV87	1DEC87	31
213H097A21	3	3	0	14	ROOF DRAINS	26OCT87	28OCT87	2DEC87	5DEC87	32
213H098A21	3	3	0	15	ROOF DRAINS	29OCT87	1NOV87	5DEC87	7DEC87	31
213H099A21	3	3	0	16	ROOF DRAINS	31OCT87	2NOV87	7DEC87	9DEC87	32
213H100A21	3	3	0	17	ROOF DRAINS	2NOV87	4NOV87	10DEC87	13DEC87	33
213H101A21	3	3	0	18	ROOF DRAINS	4NOV87	7NOV87	15DEC87	18DEC87	33

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 12

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
320H177A22	3	3	0	19	ROOF DRAINS	5NOV87	8NOV87	16DEC87	19DEC87	35
320H178A22	3	3	0	20	ROOF DRAINS	9NOV87	11NOV87	19DEC87	21DEC87	34
214H031A22	3	3	0	21	ROOF DRAINS	10NOV87	12NOV87	21DEC87	23DEC87	35
214H030A22	3	3	0	22	ROOF DRAINS	14NOV87	16NOV87	24DEC87	27DEC87	35
214H029A22	3	3	0	23	ROOF DRAINS	15NOV87	17NOV87	27DEC87	29DEC87	36
214H028A22	3	3	0	24	ROOF DRAINS	17NOV87	19NOV87	30DEC87	3JAN88	37
215H027A22	3	3	0	25	ROOF DRAINS	19NOV87	22NOV87	3JAN88	5JAN88	37
215H026A22	3	3	0	26	ROOF DRAINS	23NOV87	25NOV87	5JAN88	7JAN88	36
215H025A22	3	3	0	27	ROOF DRAINS	24NOV87	26NOV87	9JAN88	11JAN88	38
215H024A22	3	3	0	28	ROOF DRAINS	26NOV87	29NOV87	11JAN88	13JAN88	38
215H023A22	3	3	0	29	ROOF DRAINS	29NOV87	1DEC87	14JAN88	17JAN88	39
215H022A22	3	3	0	30	ROOF DRAINS	30NOV87	2DEC87	17JAN88	19JAN88	40
216H021A22	3	3	0	31	ROOF DRAINS	3DEC87	6DEC87	19JAN88	21JAN88	39
216H020A22	3	3	0	32	ROOF DRAINS	5DEC87	7DEC87	21JAN88	25JAN88	41
216H019A22	3	3	0	33	ROOF DRAINS	8DEC87	10DEC87	25JAN88	27JAN88	40
216H018A22	3	3	0	34	ROOF DRAINS	9DEC87	12DEC87	28JAN88	31JAN88	42
217H017A22	3	3	0	35	ROOF DRAINS	12DEC87	14DEC87	31JAN88	2FEB88	42
217H016A22	3	3	0	36	ROOF DRAINS	14DEC87	16DEC87	2FEB88	4FEB88	42
218H015A22	3	3	0	37	ROOF DRAINS	17DEC87	20DEC87	6FEB88	8FEB88	42
218H014A22	3	3	0	38	ROOF DRAINS	19DEC87	21DEC87	8FEB88	10FEB88	43
218H013A22	3	3	0	39	ROOF DRAINS	21DEC87	23DEC87	11FEB88	14FEB88	44
219H012A22	3	3	0	40	ROOF DRAINS	23DEC87	26DEC87	14FEB88	16FEB88	44
219H011A22	3	3	0	41	ROOF DRAINS	24DEC87	27DEC87	16FEB88	18FEB88	45
219H010A22	3	3	0	42	ROOF DRAINS	28DEC87	30DEC87	20FEB88	22FEB88	45
220H009A22	3	3	0	43	ROOF DRAINS	29DEC87	2JAN88	22FEB88	24FEB88	46
220H008A22	3	3	0	44	ROOF DRAINS	3JAN88	5JAN88	27FEB88	29FEB88	46
220H007A22	3	3	0	45	ROOF DRAINS	4JAN88	6JAN88	29FEB88	2MAR88	47
220H006A22	3	3	0	46	ROOF DRAINS	6JAN88	9JAN88	2MAR88	5MAR88	47
220H005A22	3	3	0	47	ROOF DRAINS	9JAN88	11JAN88	8MAR88	8MAR88	48
220H004A22	3	3	0	48	ROOF DRAINS	12JAN88	14JAN88	8MAR88	10MAR88	47
221H003A22	3	3	0	49	ROOF DRAINS	13JAN88	16JAN88	12MAR88	14MAR88	49
221H002A22	3	3	0	50	ROOF DRAINS	16JAN88	18JAN88	16MAR88	19MAR88	51
221H001A22	3	3	0	51	ROOF DRAINS	18JAN88	20JAN88	16MAR88	19MAR88	49
211H044A23	21	21	0	01	SANDLINE BRICKS CLADDING	10CT87	25OCT87	7OCT87	31OCT87	5
211H043A23	21	21	0	02	SANDLINE BRICKS CLADDING	10CT87	25OCT87	10OCT87	2NOV87	7
211H042A23	21	21	0	03	SANDLINE BRICKS CLADDING	10CT87	25OCT87	12OCT87	4NOV87	9
213H035A23	21	21	0	04	SANDLINE BRICKS CLADDING	13OCT87	5NOV87	14OCT87	7NOV87	1
213H036A23	21	21	0	05	SANDLINE BRICKS CLADDING	13OCT87	5NOV87	17OCT87	9NOV87	3
213H037A23	21	21	0	06	SANDLINE BRICKS CLADDING	13OCT87	5NOV87	18OCT87	10NOV87	4
213H032A23	21	21	0	07	SANDLINE BRICKS CLADDING	18OCT87	10NOV87	20OCT87	12NOV87	2
213H033A23	21	21	0	08	SANDLINE BRICKS CLADDING	20OCT87	12NOV87	22OCT87	15NOV87	2
213H034A23	21	21	0	09	SANDLINE BRICKS CLADDING	24OCT87	16NOV87	25OCT87	17NOV87	1
323H185A23	21	21	0	10	SANDLINE BRICKS CLADDING	26OCT87	18NOV87	27OCT87	19NOV87	1
323H186A23	21	21	0	11	SANDLINE BRICKS CLADDING	28OCT87	21NOV87	29OCT87	22NOV87	1
323H187A23	21	21	0	12	SANDLINE BRICKS CLADDING	28OCT87	21NOV87	31OCT87	23NOV87	2
322H188A23	21	21	0	13	SANDLINE BRICKS CLADDING	31OCT87	23NOV87	2NOV87	25NOV87	2
322H189A23	21	21	0	14	SANDLINE BRICKS CLADDING	3NOV87	26NOV87	4NOV87	28NOV87	1
322H190A23	21	21	0	15	SANDLINE BRICKS CLADDING	5NOV87	29NOV87	7NOV87	30NOV87	1
321H174A23	21	21	0	16	SANDLINE BRICKS CLADDING	8NOV87	1DEC87	9NOV87	2DEC87	1
321H175A23	21	21	0	17	SANDLINE BRICKS CLADDING	10NOV87	3DEC87	11NOV87	5DEC87	1
320H176A23	21	21	0	18	SANDLINE BRICKS CLADDING	12NOV87	6DEC87	14NOV87	7DEC87	1
320H177A23	21	21	0	19	SANDLINE BRICKS CLADDING	14NOV87	7DEC87	15NOV87	8DEC87	1
320H178A23	21	21	0	20	SANDLINE BRICKS CLADDING	16NOV87	9DEC87	17NOV87	10DEC87	1
214H031A23	21	21	0	21	SANDLINE BRICKS CLADDING	18NOV87	12DEC87	19NOV87	13DEC87	1
214H030A23	21	21	0	22	SANDLINE BRICKS CLADDING	21NOV87	14DEC87	22NOV87	15DEC87	1
214H029A23	21	21	0	23	SANDLINE BRICKS CLADDING	23NOV87	16DEC87	24NOV87	17DEC87	1
214H028A23	21	21	0	24	SANDLINE BRICKS CLADDING	25NOV87	19DEC87	26NOV87	20DEC87	1
215H027A23	21	21	0	25	SANDLINE BRICKS CLADDING	28NOV87	21DEC87	28NOV87	21DEC87	0
215H026A23	21	21	0	26	SANDLINE BRICKS CLADDING	29NOV87	22DEC87	30NOV87	23DEC87	1
215H025A23	21	21	0	27	SANDLINE BRICKS CLADDING	1DEC87	24DEC87	2DEC87	26DEC87	1
215H024A23	21	21	0	28	SANDLINE BRICKS CLADDING	3DEC87	27DEC87	5DEC87	28DEC87	1
215H023A23	21	21	0	29	SANDLINE BRICKS CLADDING	6DEC87	29DEC87	7DEC87	30DEC87	1
215H022A23	21	21	0	30	SANDLINE BRICKS CLADDING	8DEC87	2JAN88	9DEC87	3JAN88	1
216H021A23	21	21	0	31	SANDLINE BRICKS CLADDING	10DEC87	4JAN88	12DEC87	5JAN88	1
216H020A23	21	21	0	32	SANDLINE BRICKS CLADDING	13DEC87	6JAN88	13DEC87	6JAN88	0
216H019A23	21	21	0	33	SANDLINE BRICKS CLADDING	14DEC87	7JAN88	15DEC87	9JAN88	1
216H018A23	21	21	0	34	SANDLINE BRICKS CLADDING	16DEC87	10JAN88	17DEC87	11JAN88	1
217H017A23	21	21	0	35	SANDLINE BRICKS CLADDING	19DEC87	12JAN88	20DEC87	13JAN88	1
217H016A23	21	21	0	36	SANDLINE BRICKS CLADDING	21DEC87	14JAN88	22DEC87	16JAN88	1
218H015A23	21	21	0	37	SANDLINE BRICKS CLADDING	23DEC87	17JAN88	24DEC87	18JAN88	1
218H014A23	21	21	0	38	SANDLINE BRICKS CLADDING	26DEC87	19JAN88	26DEC87	19JAN88	0
218H013A23	21	21	0	39	SANDLINE BRICKS CLADDING	28DEC87	21JAN88	28DEC87	21JAN88	0
219H012A23	21	21	0	40	SANDLINE BRICKS CLADDING	29DEC87	23JAN88	30DEC87	24JAN88	1
219H011A23	21	21	0	41	SANDLINE BRICKS CLADDING	2JAN88	25JAN88	3JAN88	26JAN88	1
219H010A23	21	21	0	42	SANDLINE BRICKS CLADDING	4JAN88	27JAN88	5JAN88	28JAN88	1
220H009A23	21	21	0	43	SANDLINE BRICKS CLADDING	6JAN88	30JAN88	7JAN88	31JAN88	1
220H008A23	21	21	0	44	SANDLINE BRICKS CLADDING	9JAN88	1FEB88	10JAN88	2FEB88	1
220H007A23	21	21	0	45	SANDLINE BRICKS CLADDING	11JAN88	3FEB88	11JAN88	3FEB88	0
220H006A23	21	21	0	46	SANDLINE BRICKS CLADDING	13JAN88	6FEB88	13JAN88	6FEB88	0
220H005A23	21	21	0	47	SANDLINE BRICKS CLADDING	14JAN88	7FEB88	16JAN88	8FEB88	1
220H004A23	21	21	0	48	SANDLINE BRICKS CLADDING	17JAN88	9FEB88	18JAN88	10FEB88	1
221H003A23	21	21	0	49	SANDLINE BRICKS CLADDING	19JAN88	11FEB88	20JAN88	12FEB88	1
221H002A23	21	21	0	50	SANDLINE BRICKS CLADDING	21JAN88	14FEB88	23JAN88	15FEB88	1
221H001A23	21	21	0	51	SANDLINE BRICKS CLADDING	24JAN88	16FEB88	24JAN88	16FEB88	0
211H044A24	4	4	0	01	ELECTRICAL MAIN SWITCH BOARD	10CT87	5OCT87	11OCT87	14OCT87	8
211H043A24	4	4	0	02	ELECTRICAL MAIN SWITCH BOARD	6OCT87	10OCT87	15OCT87	19OCT87	8
211H042A24	4	4	0	03	ELECTRICAL MAIN SWITCH BOARD	11OCT87	14OCT87	20OCT87	24OCT87	8
213H035A24	4	4	0	04	ELECTRICAL MAIN SWITCH BOARD	15OCT87	19OCT87	25OCT87	28OCT87	8
213H036A24	4	4	0	05	ELECTRICAL MAIN SWITCH BOARD	20OCT87	24OCT87	29OCT87	2NOV87	8
213H037A24	4	4	0	06	ELECTRICAL MAIN SWITCH BOARD	25OCT87	28OCT87	3NOV87	7NOV87	8
213H032A24	4	4	0	07	ELECTRICAL MAIN SWITCH BOARD	29OCT87	2NOV87	8NOV87	11NOV87	8
213H033A24	4	4	0	08	ELECTRICAL MAIN SWITCH BOARD	3NOV87	7NOV87	12NOV87	16NOV87	8
213H034A24	4	4	0	09	ELECTRICAL MAIN SWITCH BOARD	8NOV87	11NOV87	17NOV87	21NOV87	8
323H185A24	4	4	0	10	ELECTRICAL MAIN SWITCH BOARD	12NOV87	16NOV87	22NOV87	25NOV87	8
323H186A24	4	4	0	11	ELECTRICAL MAIN SWITCH BOARD	17NOV87	21NOV87	26NOV87	30NOV87	8
323H187A24	4	4	0	12	ELECTRICAL MAIN SWITCH BOARD	22NOV87	25NOV87	1DEC87	5DEC87	8

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 13

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
322H188A24	4	4	0	13	ELECTRICAL MAIN SWITCH BOARD	26NOV87	30NOV87	6DEC87	9DEC87	8
322H189A24	4	4	0	14	ELECTRICAL MAIN SWITCH BOARD	1DEC87	5DEC87	10DEC87	14DEC87	8
322H190A24	4	4	0	15	ELECTRICAL MAIN SWITCH BOARD	6DEC87	9DEC87	15DEC87	19DEC87	8
321H174A24	4	4	0	16	ELECTRICAL MAIN SWITCH BOARD	10DEC87	14DEC87	20DEC87	23DEC87	8
321H175A24	4	4	0	17	ELECTRICAL MAIN SWITCH BOARD	15DEC87	19DEC87	24DEC87	28DEC87	8
320H176A24	4	4	0	18	ELECTRICAL MAIN SWITCH BOARD	20DEC87	23DEC87	29DEC87	31JAN88	8
320H177A24	4	4	0	19	ELECTRICAL MAIN SWITCH BOARD	24DEC87	28DEC87	4JAN88	7JAN88	8
320H178A24	4	4	0	20	ELECTRICAL MAIN SWITCH BOARD	29DEC87	31JAN88	9JAN88	12JAN88	8
214H031A24	4	4	0	21	ELECTRICAL MAIN SWITCH BOARD	4JAN88	7JAN88	13JAN88	17JAN88	8
214H030A24	4	4	0	22	ELECTRICAL MAIN SWITCH BOARD	9JAN88	12JAN88	18JAN88	21JAN88	8
214H029A24	4	4	0	23	ELECTRICAL MAIN SWITCH BOARD	13JAN88	17JAN88	23JAN88	26JAN88	8
214H028A24	4	4	0	24	ELECTRICAL MAIN SWITCH BOARD	18JAN88	21JAN88	27JAN88	31JAN88	8
215H027A24	4	4	0	25	ELECTRICAL MAIN SWITCH BOARD	23JAN88	26JAN88	1FEB88	4FEB88	8
215H026A24	4	4	0	26	ELECTRICAL MAIN SWITCH BOARD	27JAN88	31JAN88	6FEB88	9FEB88	8
215H025A24	4	4	0	27	ELECTRICAL MAIN SWITCH BOARD	1FEB88	4FEB88	10FEB88	14FEB88	8
215H024A24	4	4	0	28	ELECTRICAL MAIN SWITCH BOARD	6FEB88	9FEB88	15FEB88	18FEB88	8
215H023A24	4	4	0	29	ELECTRICAL MAIN SWITCH BOARD	10FEB88	14FEB88	20FEB88	23FEB88	8
215H022A24	4	4	0	30	ELECTRICAL MAIN SWITCH BOARD	15FEB88	18FEB88	24FEB88	29FEB88	8
216H021A24	4	4	0	31	ELECTRICAL MAIN SWITCH BOARD	20FEB88	23FEB88	1MAR88	5MAR88	8
216H020A24	4	4	0	32	ELECTRICAL MAIN SWITCH BOARD	24FEB88	29FEB88	6MAR88	9MAR88	8
216H019A24	4	4	0	33	ELECTRICAL MAIN SWITCH BOARD	1MAR88	5MAR88	10MAR88	14MAR88	8
216H018A24	4	4	0	34	ELECTRICAL MAIN SWITCH BOARD	6MAR88	9MAR88	15MAR88	19MAR88	8
217H017A24	4	4	0	35	ELECTRICAL MAIN SWITCH BOARD	10MAR88	14MAR88	20MAR88	23MAR88	8
217H016A24	4	4	0	36	ELECTRICAL MAIN SWITCH BOARD	15MAR88	19MAR88	24MAR88	29MAR88	8
218H015A24	4	4	0	37	ELECTRICAL MAIN SWITCH BOARD	20MAR88	23MAR88	30MAR88	3APR88	8
218H014A24	4	4	0	38	ELECTRICAL MAIN SWITCH BOARD	24MAR88	29MAR88	4APR88	7APR88	8
218H013A24	4	4	0	39	ELECTRICAL MAIN SWITCH BOARD	30MAR88	3APR88	9APR88	12APR88	8
219H012A24	4	4	0	40	ELECTRICAL MAIN SWITCH BOARD	4APR88	7APR88	13APR88	17APR88	8
219H011A24	4	4	0	41	ELECTRICAL MAIN SWITCH BOARD	9APR88	12APR88	18APR88	21APR88	8
219H010A24	4	4	0	42	ELECTRICAL MAIN SWITCH BOARD	13APR88	17APR88	23APR88	26APR88	8
220H009A24	4	4	0	43	ELECTRICAL MAIN SWITCH BOARD	18APR88	21APR88	27APR88	1MAY88	8
220H008A24	4	4	0	44	ELECTRICAL MAIN SWITCH BOARD	23APR88	26APR88	2MAY88	5MAY88	8
220H007A24	4	4	0	45	ELECTRICAL MAIN SWITCH BOARD	27APR88	1MAY88	7MAY88	10MAY88	8
220H006A24	4	4	0	46	ELECTRICAL MAIN SWITCH BOARD	2MAY88	5MAY88	11MAY88	15MAY88	8
220H005A24	4	4	0	47	ELECTRICAL MAIN SWITCH BOARD	7MAY88	10MAY88	16MAY88	19MAY88	8
220H004A24	4	4	0	48	ELECTRICAL MAIN SWITCH BOARD	11MAY88	15MAY88	21MAY88	24MAY88	8
221H003A24	4	4	0	49	ELECTRICAL MAIN SWITCH BOARD	16MAY88	19MAY88	25MAY88	29MAY88	8
221H002A24	4	4	0	50	ELECTRICAL MAIN SWITCH BOARD	21MAY88	24MAY88	31MAY88	4JUN88	8
221H001A24	4	4	0	51	ELECTRICAL MAIN SWITCH BOARD	25MAY88	29MAY88	5JUN88	8JUN88	8
211H044A25	7	7	0	01	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	10CT87	8OCT87	8OCT87	15OCT87	6
211H043A25	7	7	0	02	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	10CT87	8OCT87	12OCT87	19OCT87	9
211H042A25	7	7	0	03	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	10CT87	8OCT87	14OCT87	21OCT87	11
213H035A25	7	7	0	04	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	13OCT87	20OCT87	18OCT87	25OCT87	4
213H036A25	7	7	0	05	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	13OCT87	20OCT87	20OCT87	27OCT87	6
213H037A25	7	7	0	06	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	13OCT87	20OCT87	22OCT87	29OCT87	8
213H032A25	7	7	0	07	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	21OCT87	28OCT87	26OCT87	2NOV87	4
213H033A25	7	7	0	08	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	21OCT87	28OCT87	28OCT87	4NOV87	6
213H034A25	7	7	0	09	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	24OCT87	31OCT87	1NOV87	8NOV87	7
223H185A25	7	7	0	10	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	29OCT87	5NOV87	3NOV87	10NOV87	4
323H186A25	7	7	0	11	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	29OCT87	5NOV87	5NOV87	12NOV87	7
323H187A25	7	7	0	12	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	1NOV87	8NOV87	9NOV87	16NOV87	7
322H188A25	7	7	0	13	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	7NOV87	14NOV87	11NOV87	18NOV87	7
322H189A25	7	7	0	14	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	7NOV87	14NOV87	15NOV87	22NOV87	7
322H190A25	7	7	0	15	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	9NOV87	16NOV87	17NOV87	24NOV87	7
321H174A25	7	7	0	16	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	15NOV87	22NOV87	19NOV87	16NOV87	7
321H175A25	7	7	0	17	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	15NOV87	22NOV87	23NOV87	30NOV87	7
320H176A25	7	7	0	18	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	17NOV87	24NOV87	25NOV87	2DEC87	7
320H177A25	7	7	0	19	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	23NOV87	30NOV87	29NOV87	6DEC87	5
320H178A25	7	7	0	20	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	23NOV87	30NOV87	1DEC87	8DEC87	7
214H031A25	7	7	0	21	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	25NOV87	2DEC87	3DEC87	10DEC87	7
214H030A25	7	7	0	22	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	1DEC87	8DEC87	7DEC87	14DEC87	7
214H029A25	7	7	0	23	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	1DEC87	8DEC87	9DEC87	16DEC87	7
214H028A25	7	7	0	24	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	3DEC87	10DEC87	13DEC87	20DEC87	8
215H027A25	7	7	0	25	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	9DEC87	16DEC87	15DEC87	22DEC87	5
215H026A25	7	7	0	26	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	9DEC87	16DEC87	17DEC87	24DEC87	7
215H025A25	7	7	0	27	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	12DEC87	19DEC87	21DEC87	28DEC87	8
215H024A25	7	7	0	28	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	17DEC87	24DEC87	23DEC87	30DEC87	5
215H023A25	7	7	0	29	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	17DEC87	24DEC87	27DEC87	4JAN88	8
215H022A25	7	7	0	30	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	20DEC87	27DEC87	29DEC87	6JAN88	8
216H021A25	7	7	0	31	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	26DEC87	3JAN88	2JAN88	9JAN88	5
216H020A25	7	7	0	32	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	26DEC87	3JAN88	5JAN88	12JAN88	8
216H019A25	7	7	0	33	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	28DEC87	5JAN88	7JAN88	14JAN88	8
216H018A25	7	7	0	34	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	4JAN88	11JAN88	11JAN88	18JAN88	6
217H017A25	7	7	0	35	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	4JAN88	11JAN88	13JAN88	20JAN88	8
217H016A25	7	7	0	36	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	6JAN88	13JAN88	16JAN88	23JAN88	8
218H015A25	7	7	0	37	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	12JAN88	19JAN88	19JAN88	26JAN88	6
218H014A25	7	7	0	38	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	12JAN88	19JAN88	21JAN88	28JAN88	8
218H013A25	7	7	0	39	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	14JAN88	21JAN88	25JAN88	1FEB88	9
219H012A25	7	7	0	40	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	20JAN88	27JAN88	27JAN88	3FEB88	6
219H011A25	7	7	0	41	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	20JAN88	27JAN88	30JAN88	6FEB88	8
219H010A25	7	7	0	42	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	23JAN88	30JAN88	2FEB88	9FEB88	9
220H009A25	7	7	0	43	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	28JAN88	4FEB88	4FEB88	11FEB88	6
220H008A25	7	7	0	44	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	28JAN88	4FEB88	8FEB88	15FEB88	9
220H007A25	7	7	0	45	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	31JAN88	7FEB88	10FEB88	17FEB88	9
220H006A25	7	7	0	46	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	6FEB88	13FEB88	13FEB88	20FEB88	6
220H005A25	7	7	0	47	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	6FEB88	13FEB88	16FEB88	23FEB88	9
220H004A25	7	7	0	48	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	8FEB88	15FEB88	18FEB88	27FEB88	9
221H003A25	7	7	0	49	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	14FEB88	21FEB88	23FEB88	2MAR88	8
221H002A25	7	7	0	50	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	14FEB88	21FEB88	28FEB88	6MAR88	11
221H001A25	7	7	0	51	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	16FEB88	23FEB88	28FEB88	6MAR88	9
211H044A26	10	10	0	01	CAST IRON SANITARY PIPES	10CT87	12CT87	6OCT87	17OCT87	4
211H043A26	10	10	0	02	CAST IRON SANITARY PIPES	10CT87	12CT87	12OCT87	22OCT87	7
211H042A26	10	10	0	03	CAST IRON SANITARY PIPES	10CT87	12CT87	12OCT87	22OCT87	7
213H035A26	10	10	0	04	CAST IRON SANITARY PIPES	13OCT87	24OCT87	18OCT87	26OCT87	2
213H036A26	10	10	0	05	CAST IRON SANITARY PIPES	13OCT87	24OCT87	18OCT87	26OCT87	4
213H037A26	10	10	0	06	CAST IRON SANITARY PIPES	13OCT87	24OCT87	20OCT87	31OCT87	6

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
213H032A26	10	10	0	07	CAST IRON SANITARY PIPES	18OCT87	28OCT87	24OCT87	3NOV87	5
213H033A26	10	10	0	08	CAST IRON SANITARY PIPES	20OCT87	31OCT87	26OCT87	5NOV87	5
213H034A26	10	10	0	09	CAST IRON SANITARY PIPES	25OCT87	4NOV87	29OCT87	9NOV87	4
223H185A26	10	10	0	10	CAST IRON SANITARY PIPES	25OCT87	4NOV87	1NOV87	11NOV87	6
223H186A26	10	10	0	11	CAST IRON SANITARY PIPES	28OCT87	8NOV87	3NOV87	14NOV87	5
223H187A26	10	10	0	12	CAST IRON SANITARY PIPES	29OCT87	9NOV87	7NOV87	17NOV87	7
222H188A26	10	10	0	13	CAST IRON SANITARY PIPES	1NOV87	11NOV87	9NOV87	19NOV87	7
222H189A26	10	10	0	14	CAST IRON SANITARY PIPES	5NOV87	16NOV87	12NOV87	23NOV87	6
222H190A26	10	10	0	15	CAST IRON SANITARY PIPES	5NOV87	16NOV87	15NOV87	25NOV87	8
221H174A26	10	10	0	16	CAST IRON SANITARY PIPES	9NOV87	19NOV87	17NOV87	28NOV87	7
221H175A26	10	10	0	17	CAST IRON SANITARY PIPES	10NOV87	21NOV87	21NOV87	1DEC87	9
220H176A26	10	10	0	18	CAST IRON SANITARY PIPES	12NOV87	23NOV87	23NOV87	3DEC87	9
220H177A26	10	10	0	19	CAST IRON SANITARY PIPES	17NOV87	28NOV87	26NOV87	7DEC87	8
220H178A26	10	10	0	20	CAST IRON SANITARY PIPES	17NOV87	28NOV87	29NOV87	9DEC87	10
214H031A26	10	10	0	21	CAST IRON SANITARY PIPES	21NOV87	1DEC87	1DEC87	12DEC87	9
214H030A26	10	10	0	22	CAST IRON SANITARY PIPES	22NOV87	2DEC87	5DEC87	15DEC87	11
214H029A26	10	10	0	23	CAST IRON SANITARY PIPES	24NOV87	5DEC87	7DEC87	17DEC87	11
214H028A26	10	10	0	24	CAST IRON SANITARY PIPES	29NOV87	9DEC87	10DEC87	21DEC87	10
215H027A26	10	10	0	25	CAST IRON SANITARY PIPES	29NOV87	9DEC87	13DEC87	23DEC87	12
215H026A26	10	10	0	26	CAST IRON SANITARY PIPES	2DEC87	13DEC87	15DEC87	26DEC87	11
215H025A26	10	10	0	27	CAST IRON SANITARY PIPES	3DEC87	14DEC87	19DEC87	29DEC87	13
215H024A26	10	10	0	28	CAST IRON SANITARY PIPES	6DEC87	16DEC87	21DEC87	31DEC87	14
215H023A26	10	10	0	29	CAST IRON SANITARY PIPES	10DEC87	21DEC87	24DEC87	7JAN88	12
215H022A26	10	10	0	30	CAST IRON SANITARY PIPES	10DEC87	21DEC87	27DEC87	7JAN88	12
216H021A26	10	10	0	31	CAST IRON SANITARY PIPES	14DEC87	24DEC87	29DEC87	10JAN88	13
216H020A26	10	10	0	32	CAST IRON SANITARY PIPES	15DEC87	26DEC87	3JAN88	13JAN88	15
216H019A26	10	10	0	33	CAST IRON SANITARY PIPES	17DEC87	28DEC87	5JAN88	16JAN88	15
216H018A26	10	10	0	34	CAST IRON SANITARY PIPES	22DEC87	3JAN88	9JAN88	19JAN88	14
217H017A26	10	10	0	35	CAST IRON SANITARY PIPES	22DEC87	3JAN88	11JAN88	21JAN88	16
217H016A26	10	10	0	36	CAST IRON SANITARY PIPES	26DEC87	6JAN88	13JAN88	24JAN88	15
218H015A26	10	10	0	37	CAST IRON SANITARY PIPES	27DEC87	7JAN88	17JAN88	27JAN88	17
218H014A26	10	10	0	38	CAST IRON SANITARY PIPES	29DEC87	10JAN88	19JAN88	30JAN88	17
218H013A26	10	10	0	39	CAST IRON SANITARY PIPES	4JAN88	14JAN88	23JAN88	2FEB88	16
219H012A26	10	10	0	40	CAST IRON SANITARY PIPES	4JAN88	14JAN88	25JAN88	4FEB88	18
219H011A26	10	10	0	41	CAST IRON SANITARY PIPES	7JAN88	18JAN88	27JAN88	7FEB88	17
219H010A26	10	10	0	42	CAST IRON SANITARY PIPES	9JAN88	19JAN88	31JAN88	10FEB88	19
220H009A26	10	10	0	43	CAST IRON SANITARY PIPES	11JAN88	21JAN88	2FEB88	13FEB88	19
220H008A26	10	10	0	44	CAST IRON SANITARY PIPES	16JAN88	26JAN88	6FEB88	16FEB88	18
220H007A26	10	10	0	45	CAST IRON SANITARY PIPES	16JAN88	26JAN88	8FEB88	18FEB88	20
220H006A26	10	10	0	46	CAST IRON SANITARY PIPES	19JAN88	30JAN88	10FEB88	21FEB88	19
220H005A26	10	10	0	47	CAST IRON SANITARY PIPES	20JAN88	31JAN88	14FEB88	24FEB88	21
220H004A26	10	10	0	48	CAST IRON SANITARY PIPES	23JAN88	2FEB88	16FEB88	28FEB88	21
221H003A26	10	10	0	49	CAST IRON SANITARY PIPES	27JAN88	7FEB88	18FEB88	1MAR88	19
221H002A26	10	10	0	50	CAST IRON SANITARY PIPES	27JAN88	7FEB88	21FEB88	3MAR88	21
221H001A26	10	10	0	51	CAST IRON SANITARY PIPES	31JAN88	10FEB88	22FEB88	5MAR88	19
211H044A27	13	13	0	01	PLASTERING PREPARATION	10OCT87	24OCT87	17OCT87	31OCT87	6
211H043A27	13	13	0	02	PLASTERING PREPARATION	10OCT87	24OCT87	20OCT87	3NOV87	9
211H042A27	13	13	0	03	PLASTERING PREPARATION	10OCT87	24OCT87	24OCT87	7NOV87	12
213H035A27	13	13	0	04	PLASTERING PREPARATION	21OCT87	4NOV87	27OCT87	10NOV87	5
213H036A27	13	13	0	05	PLASTERING PREPARATION	21OCT87	4NOV87	29OCT87	12NOV87	7
213H037A27	13	13	0	06	PLASTERING PREPARATION	21OCT87	4NOV87	31OCT87	14NOV87	8
213H038A27	13	13	0	07	PLASTERING PREPARATION	29OCT87	12NOV87	3NOV87	17NOV87	4
213H039A27	13	13	0	08	PLASTERING PREPARATION	29OCT87	12NOV87	7NOV87	21NOV87	7
213H040A27	13	13	0	09	PLASTERING PREPARATION	1NOV87	15NOV87	10NOV87	24NOV87	8
223H185A27	13	13	0	10	PLASTERING PREPARATION	7NOV87	21NOV87	12NOV87	26NOV87	5
223H186A27	13	13	0	11	PLASTERING PREPARATION	7NOV87	21NOV87	14NOV87	28NOV87	6
223H187A27	13	13	0	12	PLASTERING PREPARATION	9NOV87	23NOV87	17NOV87	1DEC87	7
222H188A27	13	13	0	13	PLASTERING PREPARATION	15NOV87	29NOV87	21NOV87	5DEC87	5
222H189A27	13	13	0	14	PLASTERING PREPARATION	15NOV87	29NOV87	24NOV87	8DEC87	8
222H190A27	13	13	0	15	PLASTERING PREPARATION	17NOV87	1DEC87	26NOV87	10DEC87	4
221H174A27	13	13	0	16	PLASTERING PREPARATION	23NOV87	7DEC87	26NOV87	12DEC87	8
221H175A27	13	13	0	17	PLASTERING PREPARATION	23NOV87	7DEC87	1DEC87	15DEC87	7
220H176A27	13	13	0	18	PLASTERING PREPARATION	25NOV87	9DEC87	5DEC87	19DEC87	8
220H177A27	13	13	0	19	PLASTERING PREPARATION	1DEC87	15DEC87	8DEC87	22DEC87	6
220H178A27	13	13	0	20	PLASTERING PREPARATION	1DEC87	15DEC87	10DEC87	24DEC87	7
214H031A27	13	13	0	21	PLASTERING PREPARATION	3DEC87	17DEC87	12DEC87	26DEC87	7
214H030A27	13	13	0	22	PLASTERING PREPARATION	9DEC87	23DEC87	15DEC87	29DEC87	5
214H029A27	13	13	0	23	PLASTERING PREPARATION	9DEC87	23DEC87	19DEC87	3JAN88	8
214H028A27	13	13	0	24	PLASTERING PREPARATION	12DEC87	26DEC87	22DEC87	6JAN88	9
215H027A27	13	13	0	25	PLASTERING PREPARATION	17DEC87	3JAN88	24DEC87	9JAN88	6
215H026A27	13	13	0	26	PLASTERING PREPARATION	17DEC87	3JAN88	26DEC87	10JAN88	7
215H025A27	13	13	0	27	PLASTERING PREPARATION	20DEC87	4JAN88	29DEC87	13JAN88	8
215H024A27	13	13	0	28	PLASTERING PREPARATION	26DEC87	10JAN88	3JAN88	17JAN88	6
215H023A27	13	13	0	29	PLASTERING PREPARATION	26DEC87	10JAN88	6JAN88	20JAN88	9
215H022A27	13	13	0	30	PLASTERING PREPARATION	28DEC87	12JAN88	9JAN88	23JAN88	9
216H021A27	13	13	0	31	PLASTERING PREPARATION	4JAN88	18JAN88	10JAN88	24JAN88	5
216H020A27	13	13	0	32	PLASTERING PREPARATION	4JAN88	18JAN88	13JAN88	27JAN88	8
216H019A27	13	13	0	33	PLASTERING PREPARATION	6JAN88	20JAN88	17JAN88	31JAN88	9
216H018A27	13	13	0	34	PLASTERING PREPARATION	12JAN88	26JAN88	20JAN88	3FEB88	7
217H017A27	13	13	0	35	PLASTERING PREPARATION	12JAN88	26JAN88	23JAN88	6FEB88	9
217H016A27	13	13	0	36	PLASTERING PREPARATION	14JAN88	28JAN88	24JAN88	7FEB88	8
218H015A27	13	13	0	37	PLASTERING PREPARATION	20JAN88	3FEB88	27JAN88	10FEB88	6
218H014A27	13	13	0	38	PLASTERING PREPARATION	20JAN88	3FEB88	31JAN88	14FEB88	9
218H013A27	13	13	0	39	PLASTERING PREPARATION	23JAN88	6FEB88	3FEB88	17FEB88	10
219H012A27	13	13	0	40	PLASTERING PREPARATION	28JAN88	11FEB88	6FEB88	20FEB88	7
219H011A27	13	13	0	41	PLASTERING PREPARATION	28JAN88	11FEB88	7FEB88	21FEB88	8
219H010A27	13	13	0	42	PLASTERING PREPARATION	31JAN88	14FEB88	10FEB88	24FEB88	9
220H009A27	13	13	0	43	PLASTERING PREPARATION	6FEB88	20FEB88	14FEB88	29FEB88	7
220H008A27	13	13	0	44	PLASTERING PREPARATION	6FEB88	20FEB88	17FEB88	3MAR88	10
220H007A27	13	13	0	45	PLASTERING PREPARATION	8FEB88	22FEB88	20FEB88	6MAR88	10
220H006A27	13	13	0	46	PLASTERING PREPARATION	14FEB88	29FEB88	21FEB88	7MAR88	6
220H005A27	13	13	0	47	PLASTERING PREPARATION	14FEB88	29FEB88	24FEB88	10MAR88	9
220H004A27	13	13	0	48	PLASTERING PREPARATION	16FEB88	2MAR88	29FEB88	14MAR88	10
221H003A27	13	13	0	49	PLASTERING PREPARATION	22FEB88	8MAR88	3MAR88	17MAR88	8
221H002A27	13	13	0	50	PLASTERING PREPARATION	22FEB88	8MAR88	7MAR88	21MAR88	11
221H001A27	13	13	0	51	PLASTERING PREPARATION	24FEB88	10MAR88	7MAR88	21MAR88	9

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15.46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 15

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
211H044A28	10	10	0	01	GALVANIZED WATER SUPPLY PIPES	13OCT87	24OCT87	18OCT87	28OCT87	4
211H043A28	10	10	0	02	GALVANIZED WATER SUPPLY PIPES	13OCT87	24OCT87	21OCT87	1NOV87	7
211H042A28	10	10	0	03	GALVANIZED WATER SUPPLY PIPES	13OCT87	24OCT87	24OCT87	3NOV87	9
213H035A28	10	10	0	04	GALVANIZED WATER SUPPLY PIPES	25OCT87	4NOV87	27OCT87	7NOV87	2
213H036A28	10	10	0	05	GALVANIZED WATER SUPPLY PIPES	25OCT87	4NOV87	29OCT87	9NOV87	4
213H037A28	10	10	0	06	GALVANIZED WATER SUPPLY PIPES	25OCT87	4NOV87	1NOV87	11NOV87	6
213H032A28	10	10	0	07	GALVANIZED WATER SUPPLY PIPES	29OCT87	9NOV87	4NOV87	15NOV87	5
213H033A28	10	10	0	08	GALVANIZED WATER SUPPLY PIPES	1NOV87	11NOV87	7NOV87	17NOV87	5
213H034A28	10	10	0	09	GALVANIZED WATER SUPPLY PIPES	5NOV87	16NOV87	10NOV87	21NOV87	4
223H185A28	10	10	0	10	GALVANIZED WATER SUPPLY PIPES	5NOV87	16NOV87	12NOV87	23NOV87	6
223H186A28	10	10	0	11	GALVANIZED WATER SUPPLY PIPES	9NOV87	19NOV87	15NOV87	25NOV87	5
223H187A28	10	10	0	12	GALVANIZED WATER SUPPLY PIPES	10NOV87	21NOV87	18NOV87	29NOV87	7
222H188A28	10	10	0	13	GALVANIZED WATER SUPPLY PIPES	12NOV87	23NOV87	21NOV87	1DEC87	7
222H189A28	10	10	0	14	GALVANIZED WATER SUPPLY PIPES	17NOV87	28NOV87	24NOV87	5DEC87	6
222H190A28	10	10	0	15	GALVANIZED WATER SUPPLY PIPES	17NOV87	28NOV87	26NOV87	7DEC87	8
221H174A28	10	10	0	16	GALVANIZED WATER SUPPLY PIPES	21NOV87	1DEC87	29NOV87	9DEC87	7
221H175A28	10	10	0	17	GALVANIZED WATER SUPPLY PIPES	22NOV87	2DEC87	2DEC87	13DEC87	9
320H176A28	10	10	0	18	GALVANIZED WATER SUPPLY PIPES	24NOV87	5DEC87	5DEC87	15DEC87	9
320H177A28	10	10	0	19	GALVANIZED WATER SUPPLY PIPES	29NOV87	9DEC87	8DEC87	19DEC87	8
320H178A28	10	10	0	20	GALVANIZED WATER SUPPLY PIPES	29NOV87	9DEC87	10DEC87	21DEC87	10
214H031A28	10	10	0	21	GALVANIZED WATER SUPPLY PIPES	2DEC87	13DEC87	13DEC87	23DEC87	9
214H030A28	10	10	0	22	GALVANIZED WATER SUPPLY PIPES	3DEC87	14DEC87	16DEC87	27DEC87	11
214H029A28	10	10	0	23	GALVANIZED WATER SUPPLY PIPES	6DEC87	16DEC87	19DEC87	29DEC87	11
214H028A28	10	10	0	24	GALVANIZED WATER SUPPLY PIPES	10DEC87	21DEC87	22DEC87	31JAN88	10
215H027A28	10	10	0	25	GALVANIZED WATER SUPPLY PIPES	10DEC87	21DEC87	24DEC87	5JAN88	12
215H026A28	10	10	0	26	GALVANIZED WATER SUPPLY PIPES	14DEC87	24DEC87	27DEC87	7JAN88	11
215H025A28	10	10	0	27	GALVANIZED WATER SUPPLY PIPES	15DEC87	26DEC87	30DEC87	11JAN88	13
215H024A28	10	10	0	28	GALVANIZED WATER SUPPLY PIPES	17DEC87	28DEC87	31JAN88	13JAN88	13
215H023A28	10	10	0	29	GALVANIZED WATER SUPPLY PIPES	22DEC87	31JAN88	6JAN88	17JAN88	12
215H022A28	10	10	0	30	GALVANIZED WATER SUPPLY PIPES	22DEC87	31JAN88	9JAN88	19JAN88	14
216H021A28	10	10	0	31	GALVANIZED WATER SUPPLY PIPES	26DEC87	6JAN88	11JAN88	21JAN88	13
216H020A28	10	10	0	32	GALVANIZED WATER SUPPLY PIPES	27DEC87	7JAN88	14JAN88	25JAN88	15
216H019A28	10	10	0	33	GALVANIZED WATER SUPPLY PIPES	29DEC87	10JAN88	17JAN88	27JAN88	15
216H018A28	10	10	0	34	GALVANIZED WATER SUPPLY PIPES	4JAN88	14JAN88	20JAN88	31JAN88	14
217H017A28	10	10	0	35	GALVANIZED WATER SUPPLY PIPES	4JAN88	14JAN88	23JAN88	2FEB88	16
217H016A28	10	10	0	36	GALVANIZED WATER SUPPLY PIPES	7JAN88	18JAN88	25JAN88	4FEB88	15
218H015A28	10	10	0	37	GALVANIZED WATER SUPPLY PIPES	9JAN88	19JAN88	28JAN88	8FEB88	17
218H014A28	10	10	0	38	GALVANIZED WATER SUPPLY PIPES	11JAN88	21JAN88	31JAN88	10FEB88	17
218H013A28	10	10	0	39	GALVANIZED WATER SUPPLY PIPES	16JAN88	26JAN88	3FEB88	14FEB88	16
219H012A28	10	10	0	40	GALVANIZED WATER SUPPLY PIPES	16JAN88	26JAN88	6FEB88	16FEB88	18
219H011A28	10	10	0	41	GALVANIZED WATER SUPPLY PIPES	19JAN88	30JAN88	8FEB88	18FEB88	17
219H010A28	10	10	0	42	GALVANIZED WATER SUPPLY PIPES	20JAN88	31JAN88	11FEB88	22FEB88	19
220H009A28	10	10	0	43	GALVANIZED WATER SUPPLY PIPES	23JAN88	2FEB88	14FEB88	24FEB88	19
220H008A28	10	10	0	44	GALVANIZED WATER SUPPLY PIPES	27JAN88	7FEB88	17FEB88	29FEB88	18
220H007A28	10	10	0	45	GALVANIZED WATER SUPPLY PIPES	27JAN88	7FEB88	20FEB88	2MAR88	20
220H006A28	10	10	0	46	GALVANIZED WATER SUPPLY PIPES	31JAN88	10FEB88	22FEB88	5MAR88	19
220H005A28	10	10	0	47	GALVANIZED WATER SUPPLY PIPES	1FEB88	11FEB88	27FEB88	8MAR88	21
220H004A28	10	10	0	48	GALVANIZED WATER SUPPLY PIPES	3FEB88	14FEB88	29FEB88	10MAR88	21
221H003A28	10	10	0	49	GALVANIZED WATER SUPPLY PIPES	8FEB88	18FEB88	2MAR88	13MAR88	19
221H002A28	10	10	0	50	GALVANIZED WATER SUPPLY PIPES	8FEB88	18FEB88	5MAR88	15MAR88	21
221H001A28	10	10	0	51	GALVANIZED WATER SUPPLY PIPES	11FEB88	22FEB88	6MAR88	16MAR88	19
211H044A29	6	6	0	01	MARBLE FRAMES	15OCT87	21OCT87	25OCT87	31OCT87	8
211H043A29	6	6	0	02	MARBLE FRAMES	15OCT87	21OCT87	28OCT87	3NOV87	11
211H042A29	6	6	0	03	MARBLE FRAMES	15OCT87	21OCT87	1NOV87	7NOV87	14
213H035A29	6	6	0	04	MARBLE FRAMES	27OCT87	2NOV87	4NOV87	10NOV87	7
213H036A29	6	6	0	05	MARBLE FRAMES	27OCT87	2NOV87	7NOV87	12NOV87	9
213H037A29	6	6	0	06	MARBLE FRAMES	27OCT87	2NOV87	8NOV87	14NOV87	10
213H032A29	6	6	0	07	MARBLE FRAMES	4NOV87	10NOV87	11NOV87	17NOV87	6
213H033A29	6	6	0	08	MARBLE FRAMES	4NOV87	10NOV87	15NOV87	21NOV87	9
213H034A29	6	6	0	09	MARBLE FRAMES	7NOV87	12NOV87	18NOV87	24NOV87	10
223H185A29	6	6	0	10	MARBLE FRAMES	12NOV87	18NOV87	21NOV87	28NOV87	7
223H186A29	6	6	0	11	MARBLE FRAMES	12NOV87	18NOV87	22NOV87	29NOV87	8
223H187A29	6	6	0	12	MARBLE FRAMES	15NOV87	21NOV87	25NOV87	1DEC87	9
222H188A29	6	6	0	13	MARBLE FRAMES	21NOV87	26NOV87	29NOV87	5DEC87	7
222H189A29	6	6	0	14	MARBLE FRAMES	21NOV87	26NOV87	2DEC87	8DEC87	10
222H190A29	6	6	0	15	MARBLE FRAMES	23NOV87	29NOV87	5DEC87	10DEC87	10
221H174A29	6	6	0	16	MARBLE FRAMES	29NOV87	5DEC87	6DEC87	12DEC87	6
320H176A29	6	6	0	17	MARBLE FRAMES	29NOV87	5DEC87	9DEC87	15DEC87	9
320H177A29	6	6	0	18	MARBLE FRAMES	1DEC87	7DEC87	13DEC87	19DEC87	10
320H178A29	6	6	0	19	MARBLE FRAMES	7DEC87	13DEC87	16DEC87	22DEC87	8
214H031A29	6	6	0	20	MARBLE FRAMES	9DEC87	15DEC87	20DEC87	26DEC87	9
214H030A29	6	6	0	21	MARBLE FRAMES	15DEC87	21DEC87	23DEC87	29DEC87	7
214H029A29	6	6	0	22	MARBLE FRAMES	15DEC87	21DEC87	27DEC87	31JAN88	10
214H028A29	6	6	0	23	MARBLE FRAMES	17DEC87	23DEC87	30DEC87	6JAN88	11
215H027A29	6	6	0	24	MARBLE FRAMES	23DEC87	29DEC87	31JAN88	9JAN88	8
215H026A29	6	6	0	25	MARBLE FRAMES	23DEC87	29DEC87	4JAN88	10JAN88	9
215H025A29	6	6	0	26	MARBLE FRAMES	26DEC87	2JAN88	7JAN88	13JAN88	10
215H024A29	6	6	0	27	MARBLE FRAMES	2JAN88	7JAN88	11JAN88	17JAN88	8
215H023A29	6	6	0	28	MARBLE FRAMES	2JAN88	7JAN88	14JAN88	20JAN88	11
215H022A29	6	6	0	29	MARBLE FRAMES	4JAN88	10JAN88	17JAN88	23JAN88	11
216H021A29	6	6	0	30	MARBLE FRAMES	10JAN88	16JAN88	18JAN88	24JAN88	7
216H020A29	6	6	0	31	MARBLE FRAMES	10JAN88	16JAN88	21JAN88	27JAN88	10
216H019A29	6	6	0	32	MARBLE FRAMES	12JAN88	18JAN88	25JAN88	31JAN88	11
216H018A29	6	6	0	33	MARBLE FRAMES	18JAN88	24JAN88	28JAN88	3FEB88	9
217H017A29	6	6	0	34	MARBLE FRAMES	18JAN88	24JAN88	31JAN88	6FEB88	11
217H016A29	6	6	0	35	MARBLE FRAMES	20JAN88	26JAN88	1FEB88	7FEB88	10
218H015A29	6	6	0	36	MARBLE FRAMES	26JAN88	1FEB88	8FEB88	10FEB88	8
218H014A29	6	6	0	37	MARBLE FRAMES	26JAN88	1FEB88	8FEB88	14FEB88	11
218H013A29	6	6	0	38	MARBLE FRAMES	28JAN88	3FEB88	11FEB88	17FEB88	12
219H012A29	6	6	0	39	MARBLE FRAMES	3FEB88	9FEB88	14FEB88	20FEB88	9
219H011A29	6	6	0	40	MARBLE FRAMES	3FEB88	9FEB88	15FEB88	21FEB88	10
219H010A29	6	6	0	41	MARBLE FRAMES	6FEB88	11FEB88	18FEB88	24FEB88	11
220H009A29	6	6	0	42	MARBLE FRAMES	11FEB88	17FEB88	22FEB88	29FEB88	9
220H008A29	6	6	0	43	MARBLE FRAMES	11FEB88	17FEB88	27FEB88	3MAR88	12
220H007A29	6	6	0	44	MARBLE FRAMES	14FEB88	20FEB88	29FEB88	6MAR88	12

Figure 9.13 - Case 2, Baseline Schedule (Continued).

SAUD & ABRAHIM ALABDULRAZZAK EST. PRIMAVERA PROJECT PLANNER JAHRA 3 HOUSING PROJECT common act

REPORT DATE 21SEP95 RUN NO. 121 SEVEN SEAS, CONSTRUCTION OF 51 HOUSES START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES DATA DATE 1APR87 PAGE NO. 16

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
220H006A29	6	6	0	46	MARBLE FRAMES	20FEB88	27FEB88	1MAR89	7MAR89	8
220H005A29	6	6	0	47	MARBLE FRAMES	20FEB88	27FEB88	5MAR89	10MAR89	11
220H004A29	6	6	0	48	MARBLE FRAMES	22FEB88	29FEB88	8MAR89	14MAR89	12
221H003A29	6	6	0	49	MARBLE FRAMES	29FEB88	6MAR89	12MAR89	17MAR89	10
221H002A29	6	6	0	50	MARBLE FRAMES	29FEB88	6MAR89	15MAR89	21MAR89	13
221H001A29	6	6	0	51	MARBLE FRAMES	2MAR89	8MAR89	15MAR89	21MAR89	11
211H044A30	4	4	0	01	WOODEN FRAMES	17OCT87	20OCT87	27OCT87	31OCT87	9
211H043A30	4	4	0	02	WOODEN FRAMES	17OCT87	20OCT87	31OCT87	3NOV87	12
211H042A30	4	4	0	03	WOODEN FRAMES	21OCT87	25OCT87	3NOV87	7NOV87	11
211H035A30	4	4	0	04	WOODEN FRAMES	28OCT87	1NOV87	5NOV87	9NOV87	7
211H034A30	4	4	0	05	WOODEN FRAMES	28OCT87	1NOV87	9NOV87	12NOV87	10
211H033A30	4	4	0	06	WOODEN FRAMES	5NOV87	5NOV87	10NOV87	14NOV87	7
211H032A30	4	4	0	07	WOODEN FRAMES	5NOV87	5NOV87	14NOV87	17NOV87	7
211H031A30	4	4	0	08	WOODEN FRAMES	7NOV87	10NOV87	17NOV87	21NOV87	9
211H024A30	4	4	0	09	WOODEN FRAMES	14NOV87	14NOV87	19NOV87	23NOV87	9
211H023A30	4	4	0	10	WOODEN FRAMES	14NOV87	17NOV87	23NOV87	26NOV87	8
211H022A30	4	4	0	11	WOODEN FRAMES	15NOV87	18NOV87	24NOV87	28NOV87	9
211H021A30	4	4	0	12	WOODEN FRAMES	18NOV87	22NOV87	28NOV87	1DEC87	8
211H020A30	4	4	0	13	WOODEN FRAMES	22NOV87	25NOV87	1DEC87	5DEC87	8
211H019A30	4	4	0	14	WOODEN FRAMES	23NOV87	26NOV87	3DEC87	7DEC87	9
211H018A30	4	4	0	15	WOODEN FRAMES	26NOV87	30NOV87	7DEC87	10DEC87	9
211H017A30	4	4	0	16	WOODEN FRAMES	30NOV87	3DEC87	8DEC87	12DEC87	7
211H016A30	4	4	0	17	WOODEN FRAMES	1DEC87	5DEC87	12DEC87	15DEC87	9
211H015A30	4	4	0	18	WOODEN FRAMES	8DEC87	8DEC87	15DEC87	19DEC87	9
211H014A30	4	4	0	19	WOODEN FRAMES	8DEC87	12DEC87	17DEC87	21DEC87	8
211H013A30	4	4	0	20	WOODEN FRAMES	9DEC87	13DEC87	21DEC87	24DEC87	10
211H012A30	4	4	0	21	WOODEN FRAMES	13DEC87	16DEC87	22DEC87	26DEC87	8
211H011A30	4	4	0	22	WOODEN FRAMES	16DEC87	20DEC87	26DEC87	29DEC87	10
211H010A30	4	4	0	23	WOODEN FRAMES	17DEC87	21DEC87	29DEC87	3JAN88	8
211H009A30	4	4	0	24	WOODEN FRAMES	21DEC87	24DEC87	3JAN88	5JAN88	9
211H008A30	4	4	0	25	WOODEN FRAMES	24DEC87	28DEC87	5JAN88	9JAN88	9
211H007A30	4	4	0	26	WOODEN FRAMES	24DEC87	29DEC87	6JAN88	10JAN88	9
211H006A30	4	4	0	27	WOODEN FRAMES	29DEC87	3JAN88	10JAN88	13JAN88	9
211H005A30	4	4	0	28	WOODEN FRAMES	3JAN88	6JAN88	13JAN88	17JAN88	9
211H004A30	4	4	0	29	WOODEN FRAMES	4JAN88	7JAN88	16JAN88	19JAN88	10
211H003A30	4	4	0	30	WOODEN FRAMES	7JAN88	11JAN88	19JAN88	23JAN88	10
211H002A30	4	4	0	31	WOODEN FRAMES	11JAN88	14JAN88	20JAN88	24JAN88	8
211H001A30	4	4	0	32	WOODEN FRAMES	12JAN88	16JAN88	24JAN88	27JAN88	10
211H000A30	4	4	0	33	WOODEN FRAMES	16JAN88	19JAN88	27JAN88	31JAN88	10
211H000A30	4	4	0	34	WOODEN FRAMES	19JAN88	23JAN88	30JAN88	2FEB88	9
211H000A30	4	4	0	35	WOODEN FRAMES	20JAN88	24JAN88	2FEB88	6FEB88	11
211H000A30	4	4	0	36	WOODEN FRAMES	24JAN88	27JAN88	3FEB88	7FEB88	9
211H000A30	4	4	0	37	WOODEN FRAMES	27JAN88	31JAN88	7FEB88	10FEB88	9
211H000A30	4	4	0	38	WOODEN FRAMES	28JAN88	1FEB88	10FEB88	14FEB88	11
211H000A30	4	4	0	39	WOODEN FRAMES	1FEB88	4FEB88	13FEB88	16FEB88	10
211H000A30	4	4	0	40	WOODEN FRAMES	4FEB88	8FEB88	16FEB88	20FEB88	10
211H000A30	4	4	0	41	WOODEN FRAMES	8FEB88	9FEB88	17FEB88	21FEB88	10
211H000A30	4	4	0	42	WOODEN FRAMES	9FEB88	13FEB88	21FEB88	24FEB88	10
211H000A30	4	4	0	43	WOODEN FRAMES	13FEB88	16FEB88	24FEB88	29FEB88	10
211H000A30	4	4	0	44	WOODEN FRAMES	14FEB88	17FEB88	28FEB88	2MAR89	11
211H000A30	4	4	0	45	WOODEN FRAMES	17FEB88	21FEB88	2MAR89	6MAR89	11
211H000A30	4	4	0	46	WOODEN FRAMES	21FEB88	24FEB88	3MAR89	7MAR89	9
211H000A30	4	4	0	47	WOODEN FRAMES	22FEB88	27FEB88	7MAR89	10MAR89	11
211H000A30	4	4	0	48	WOODEN FRAMES	27FEB88	1MAR89	10MAR89	14MAR89	11
211H000A30	4	4	0	49	WOODEN FRAMES	1MAR89	5MAR89	13MAR89	16MAR89	10
211H000A30	4	4	0	50	WOODEN FRAMES	2MAR89	6MAR89	17MAR89	21MAR89	13
211H000A30	4	4	0	51	WOODEN FRAMES	6MAR89	9MAR89	17MAR89	21MAR89	10
211H044A31	6	6	0	01	BLOCK WORKS OF CHASES	25OCT87	31OCT87	29OCT87	4NOV87	4
211H043A31	6	6	0	02	BLOCK WORKS OF CHASES	25OCT87	31OCT87	2NOV87	8NOV87	7
211H042A31	6	6	0	03	BLOCK WORKS OF CHASES	25OCT87	31OCT87	4NOV87	10NOV87	9
211H041A31	6	6	0	04	BLOCK WORKS OF CHASES	5NOV87	11NOV87	8NOV87	14NOV87	2
211H040A31	6	6	0	05	BLOCK WORKS OF CHASES	5NOV87	11NOV87	10NOV87	16NOV87	4
211H039A31	6	6	0	06	BLOCK WORKS OF CHASES	5NOV87	11NOV87	12NOV87	18NOV87	3
211H038A31	6	6	0	07	BLOCK WORKS OF CHASES	12NOV87	18NOV87	16NOV87	22NOV87	6
211H037A31	6	6	0	08	BLOCK WORKS OF CHASES	12NOV87	18NOV87	18NOV87	24NOV87	5
211H036A31	6	6	0	09	BLOCK WORKS OF CHASES	17NOV87	23NOV87	22NOV87	28NOV87	4
211H035A31	6	6	0	10	BLOCK WORKS OF CHASES	19NOV87	25NOV87	24NOV87	30NOV87	4
211H034A31	6	6	0	11	BLOCK WORKS OF CHASES	21NOV87	26NOV87	26NOV87	2DEC87	5
211H033A31	6	6	0	12	BLOCK WORKS OF CHASES	24NOV87	30NOV87	30NOV87	6DEC87	5
211H032A31	6	6	0	13	BLOCK WORKS OF CHASES	26NOV87	2DEC87	2DEC87	8DEC87	5
211H031A31	6	6	0	14	BLOCK WORKS OF CHASES	29NOV87	5DEC87	6DEC87	12DEC87	6
211H030A31	6	6	0	15	BLOCK WORKS OF CHASES	1DEC87	7DEC87	7DEC87	14DEC87	6
211H029A31	6	6	0	16	BLOCK WORKS OF CHASES	3DEC87	9DEC87	10DEC87	16DEC87	7
211H028A31	6	6	0	17	BLOCK WORKS OF CHASES	6DEC87	12DEC87	14DEC87	20DEC87	6
211H027A31	6	6	0	18	BLOCK WORKS OF CHASES	8DEC87	14DEC87	16DEC87	22DEC87	7
211H026A31	6	6	0	19	BLOCK WORKS OF CHASES	10DEC87	16DEC87	20DEC87	26DEC87	7
211H025A31	6	6	0	20	BLOCK WORKS OF CHASES	13DEC87	19DEC87	22DEC87	28DEC87	8
211H024A31	6	6	0	21	BLOCK WORKS OF CHASES	15DEC87	21DEC87	24DEC87	30DEC87	8
211H023A31	6	6	0	22	BLOCK WORKS OF CHASES	17DEC87	23DEC87	28DEC87	4JAN88	9
211H022A31	6	6	0	23	BLOCK WORKS OF CHASES	20DEC87	26DEC87	30DEC87	6JAN88	9
211H021A31	6	6	0	24	BLOCK WORKS OF CHASES	22DEC87	28DEC87	4JAN88	10JAN88	10
211H020A31	6	6	0	25	BLOCK WORKS OF CHASES	24DEC87	30DEC87	6JAN88	12JAN88	10
211H019A31	6	6	0	26	BLOCK WORKS OF CHASES	27DEC87	3JAN88	9JAN88	14JAN88	10
211H018A31	6	6	0	27	BLOCK WORKS OF CHASES	29DEC87	5JAN88	12JAN88	18JAN88	11
211H017A31	6	6	0	28	BLOCK WORKS OF CHASES	2JAN88	7JAN88	14JAN88	20JAN88	11
211H016A31	6	6	0	29	BLOCK WORKS OF CHASES	4JAN88	10JAN88	16JAN88	24JAN88	12
211H015A31	6	6	0	30	BLOCK WORKS OF CHASES	6JAN88	12JAN88	20JAN88	26JAN88	12
211H014A31	6	6	0	31	BLOCK WORKS OF CHASES	9JAN88	14JAN88	23JAN88	28JAN88	12
211H013A31	6	6	0	32	BLOCK WORKS OF CHASES	11JAN88	17JAN88	26JAN88	1FEB88	13
211H012A31	6	6	0	33	BLOCK WORKS OF CHASES	13JAN88	19JAN88	28JAN88	3FEB88	13
211H011A31	6	6	0	34	BLOCK WORKS OF CHASES	16JAN88	21JAN88	1FEB88	7FEB88	14
211H010A31	6	6	0	35	BLOCK WORKS OF CHASES	18JAN88	24JAN88	3FEB88	9FEB88	14
211H009A31	6	6	0	36	BLOCK WORKS OF CHASES	20JAN88	26JAN88	6FEB88	11FEB88	14
211H008A31	6	6	0	37	BLOCK WORKS OF CHASES	23JAN88	28JAN88	9FEB88	15FEB88	15
211H007A31	6	6	0	38	BLOCK WORKS OF CHASES	25JAN88	31JAN88	11FEB88	17FEB88	15
211H006A31	6	6	0	39	BLOCK WORKS OF CHASES	27JAN88	2FEB88	15FEB88	21FEB88	16

Figure 9.13 - Case 2, Baseline Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.				PRIMAVERA PROJECT PLANNER				JAHRA 3 HOUSING PROJECT common act			
REPORT DATE 21SEP95 RUN NO. 121				SEVEN SEAS, CONSTRUCTION OF 51 HOUSES				START DATE 1APR87 FIN DATE 13AUG88			
15:46											
Baseline Schedule by Typical Activity & ES								DATA DATE 1APR87 PAGE NO. 17			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT	
219H012A31	6	6	0	40	BLOCK WORKS OF CHASES	30JAN88	4FEB88	17FEB88	23FEB88	16	
219H011A31	6	6	0	41	BLOCK WORKS OF CHASES	1FEB88	7FEB88	20FEB88	27FEB88	16	
219H010A31	6	6	0	42	BLOCK WORKS OF CHASES	3FEB88	9FEB88	23FEB88	1MAR88	17	
220H009A31	6	6	0	43	BLOCK WORKS OF CHASES	6FEB88	11FEB88	27FEB88	3MAR88	17	
220H008A31	6	6	0	44	BLOCK WORKS OF CHASES	8FEB88	14FEB88	1MAR88	7MAR88	18	
220H007A31	6	6	0	45	BLOCK WORKS OF CHASES	10FEB88	16FEB88	3MAR88	9MAR88	18	
220H006A31	6	6	0	46	BLOCK WORKS OF CHASES	13FEB88	18FEB88	6MAR88	12MAR88	18	
220H005A31	6	6	0	47	BLOCK WORKS OF CHASES	15FEB88	21FEB88	9MAR88	15MAR88	19	
220H004A31	6	6	0	48	BLOCK WORKS OF CHASES	17FEB88	23FEB88	12MAR88	17MAR88	20	
221H003A31	6	6	0	49	BLOCK WORKS OF CHASES	20FEB88	27FEB88	15MAR88	21MAR88	20	
221H002A31	6	6	0	50	BLOCK WORKS OF CHASES	22FEB88	29FEB88	20MAR88	26MAR88	22	
221H001A31	6	6	0	51	BLOCK WORKS OF CHASES	24FEB88	2MAR88	20MAR88	26MAR88	20	
211H044A32	8	8	0	01	PLASTERING	25OCT87	2NOV87	1NOV87	9NOV87	6	
211H043A32	8	8	0	02	PLASTERING	25OCT87	2NOV87	4NOV87	12NOV87	9	
211H042A32	8	8	0	03	PLASTERING	26OCT87	1NOV87	8NOV87	16NOV87	11	
211H035A32	8	8	0	04	PLASTERING	5NOV87	14NOV87	11NOV87	19NOV87	5	
211H034A32	8	8	0	05	PLASTERING	5NOV87	14NOV87	14NOV87	22NOV87	7	
211H033A32	8	8	0	06	PLASTERING	7NOV87	15NOV87	15NOV87	23NOV87	7	
211H032A32	8	8	0	07	PLASTERING	14NOV87	22NOV87	18NOV87	26NOV87	4	
211H031A32	8	8	0	08	PLASTERING	15NOV87	23NOV87	22NOV87	30NOV87	6	
211H030A32	8	8	0	09	PLASTERING	16NOV87	24NOV87	25NOV87	3DEC87	8	
211H029A32	8	8	0	10	PLASTERING	22NOV87	30NOV87	28NOV87	6DEC87	5	
211H028A32	8	8	0	11	PLASTERING	23NOV87	1DEC87	29NOV87	7DEC87	5	
211H027A32	8	8	0	12	PLASTERING	24NOV87	2DEC87	2DEC87	10DEC87	7	
211H026A32	8	8	0	13	PLASTERING	30NOV87	8DEC87	6DEC87	14DEC87	5	
211H025A32	8	8	0	14	PLASTERING	1DEC87	9DEC87	9DEC87	17DEC87	7	
211H024A32	8	8	0	15	PLASTERING	2DEC87	10DEC87	12DEC87	20DEC87	8	
211H023A32	8	8	0	16	PLASTERING	8DEC87	16DEC87	13DEC87	21DEC87	4	
211H022A32	8	8	0	17	PLASTERING	9DEC87	17DEC87	16DEC87	24DEC87	6	
211H021A32	8	8	0	18	PLASTERING	10DEC87	19DEC87	20DEC87	28DEC87	8	
211H020A32	8	8	0	19	PLASTERING	16DEC87	24DEC87	23DEC87	2JAN88	6	
211H019A32	8	8	0	20	PLASTERING	17DEC87	26DEC87	26DEC87	4JAN88	7	
211H018A32	8	8	0	21	PLASTERING	19DEC87	27DEC87	27DEC87	5JAN88	7	
211H017A32	8	8	0	22	PLASTERING	24DEC87	3JAN88	30DEC87	9JAN88	5	
211H016A32	8	8	0	23	PLASTERING	26DEC87	4JAN88	4JAN88	12JAN88	7	
211H015A32	8	8	0	24	PLASTERING	27DEC87	5JAN88	7JAN88	16JAN88	9	
211H014A32	8	8	0	25	PLASTERING	3JAN88	11JAN88	10JAN88	18JAN88	6	
211H013A32	8	8	0	26	PLASTERING	4JAN88	12JAN88	11JAN88	19JAN88	6	
211H012A32	8	8	0	27	PLASTERING	5JAN88	13JAN88	14JAN88	23JAN88	8	
211H011A32	8	8	0	28	PLASTERING	11JAN88	19JAN88	18JAN88	26JAN88	6	
211H010A32	8	8	0	29	PLASTERING	12JAN88	20JAN88	21JAN88	30JAN88	9	
211H009A32	8	8	0	30	PLASTERING	13JAN88	21JAN88	24JAN88	1FEB88	8	
211H008A32	8	8	0	31	PLASTERING	19JAN88	27JAN88	25JAN88	2FEB88	5	
211H007A32	8	8	0	32	PLASTERING	20JAN88	28JAN88	28JAN88	6FEB88	7	
211H006A32	8	8	0	33	PLASTERING	21JAN88	29JAN88	1FEB88	9FEB88	9	
211H005A32	8	8	0	35	PLASTERING	27JAN88	4FEB88	4FEB88	13FEB88	7	
211H004A32	8	8	0	36	PLASTERING	28JAN88	6FEB88	7FEB88	15FEB88	8	
211H003A32	8	8	0	37	PLASTERING	10JAN88	7FEB88	8FEB88	16FEB88	8	
211H002A32	8	8	0	38	PLASTERING	4FEB88	13FEB88	11FEB88	20FEB88	6	
211H001A32	8	8	0	39	PLASTERING	7FEB88	14FEB88	15FEB88	23FEB88	8	
211H000A32	8	8	0	40	PLASTERING	7FEB88	15FEB88	18FEB88	28FEB88	10	
211H009A32	8	8	0	41	PLASTERING	13FEB88	21FEB88	21FEB88	1MAR88	7	
211H008A32	8	8	0	42	PLASTERING	14FEB88	22FEB88	22FEB88	2MAR88	7	
211H007A32	8	8	0	43	PLASTERING	15FEB88	23FEB88	27FEB88	6MAR88	9	
211H006A32	8	8	0	44	PLASTERING	21FEB88	1MAR88	1MAR88	9MAR88	7	
211H005A32	8	8	0	45	PLASTERING	22FEB88	2MAR88	5MAR88	13MAR88	9	
211H004A32	8	8	0	46	PLASTERING	23FEB88	3MAR88	7MAR88	15MAR88	10	
211H003A32	8	8	0	47	PLASTERING	1MAR88	9MAR88	8MAR88	16MAR88	6	
211H002A32	8	8	0	48	PLASTERING	2MAR88	10MAR88	12MAR88	20MAR88	8	
211H001A32	8	8	0	49	PLASTERING	3MAR88	12MAR88	15MAR88	23MAR88	10	
211H000A32	8	8	0	50	PLASTERING	10MAR88	19MAR88	22MAR88	31MAR88	10	
211H009A32	8	8	0	51	PLASTERING	12MAR88	20MAR88	22MAR88	31MAR88	9	
211H008A32	24	24	0	01	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	26OCT87	22NOV87	2NOV87	29NOV87	6	
211H007A32	24	24	0	02	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	26OCT87	22NOV87	3NOV87	30NOV87	7	
211H006A32	24	24	0	03	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	26OCT87	22NOV87	5NOV87	2DEC87	9	
211H005A32	24	24	0	04	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	7NOV87	3DEC87	8NOV87	5DEC87	1	
211H004A32	24	24	0	05	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	7NOV87	3DEC87	10NOV87	7DEC87	3	
211H003A32	24	24	0	06	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	7NOV87	3DEC87	12NOV87	9DEC87	5	
211H002A32	24	24	0	07	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	11NOV87	8DEC87	14NOV87	10DEC87	2	
211H001A32	24	24	0	08	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	15NOV87	12DEC87	16NOV87	13DEC87	1	
211H000A32	24	24	0	09	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	17NOV87	14DEC87	18NOV87	15DEC87	1	
211H009A32	24	24	0	10	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	19NOV87	16DEC87	21NOV87	17DEC87	1	
211H008A32	24	24	0	11	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	22NOV87	19DEC87	23NOV87	20DEC87	1	
211H007A32	24	24	0	12	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	23NOV87	20DEC87	24NOV87	21DEC87	1	
211H006A32	24	24	0	13	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	25NOV87	22DEC87	28NOV87	24DEC87	2	
211H005A32	24	24	0	14	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	28NOV87	24DEC87	30NOV87	27DEC87	2	
211H004A32	24	24	0	15	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	30NOV87	27DEC87	1DEC87	28DEC87	1	
211H003A32	24	24	0	16	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	2DEC87	29DEC87	3DEC87	30DEC87	1	
211H002A32	24	24	0	17	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	5DEC87	2JAN88	8DEC87	3JAN88	1	
211H001A32	24	24	0	18	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	7DEC87	5JAN88	10DEC87	7JAN88	2	
211H000A32	24	24	0	19	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	10DEC87	7JAN88	12DEC87	9JAN88	1	
211H009A32	24	24	0	20	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	13DEC87	16JAN88	14DEC87	11JAN88	1	
211H008A32	24	24	0	21	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	15DEC87	12JAN88	16DEC87	13JAN88	1	
211H007A32	24	24	0	22	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	17DEC87	14JAN88	19DEC87	16JAN88	1	
211H006A32	24	24	0	23	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	20DEC87	17JAN88	21DEC87	18JAN88	1	
211H005A32	24	24	0	24	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	22DEC87	19JAN88	22DEC87	19JAN88	0	
211H004A32	24	24	0	25	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	23DEC87	20JAN88	26DEC87	23JAN88	2	
211H003A32	24	24	0	26	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	26DEC87	23JAN88	28DEC87	25JAN88	2	
211H002A32	24	24	0	28	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	28DEC87	25JAN88	29DEC87	26JAN88	1	
211H001A32	24	24	0	29	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	30DEC87	27JAN88	3JAN88	28JAN88	1	
211H000A32	24	24	0	30	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	3JAN88	30JAN88	4JAN88	31JAN88	1	
211H009A32	24	24	0	31	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	1FEB88	6JAN88	6JAN88	2FEB88	1	
211H008A32	24	24	0	32	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	7JAN88	3FEB88	9JAN88	4FEB88	1	
211H007A32	24	24	0	33	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	9JAN88	4FEB88	10JAN88	6FEB88	1	

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS. CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13APR95

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 14

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
216H018A33	24	24	0	34	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	11JAN88	7FEB88	12JAN88	8FEB88	1
217H017A33	24	24	0	35	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	13JAN88	9FEB88	14JAN88	10FEB88	1
217H016A33	24	24	0	36	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	16JAN88	11FEB88	17JAN88	13FEB88	1
218H015A33	24	24	0	37	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	18JAN88	14FEB88	19JAN88	15FEB88	1
218H014A33	24	24	0	38	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	20JAN88	16FEB88	20JAN88	16FEB88	0
218H013A33	24	24	0	39	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	23JAN88	18FEB88	24JAN88	20FEB88	1
219H012A33	24	24	0	40	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	24JAN88	20FEB88	26JAN88	22FEB88	2
219H011A33	24	24	0	41	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	26JAN88	22FEB88	27JAN88	23FEB88	1
219H010A33	24	24	0	42	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	28JAN88	24FEB88	30JAN88	27FEB88	1
220H009A33	24	24	0	43	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	31JAN88	28FEB88	1FEB89	29FEB88	1
220H008A33	24	24	0	44	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	2FEB88	1MAR88	3FEB88	2MAR88	1
220H007A33	24	24	0	45	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	4FEB88	3MAR88	6FEB88	5MAR88	1
220H006A33	24	24	0	46	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	7FEB88	6MAR88	7FEB88	6MAR88	0
220H005A33	24	24	0	47	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	8FEB88	7MAR88	9FEB88	8MAR88	1
220H004A33	24	24	0	48	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	10FEB88	9MAR88	11FEB88	10MAR88	1
221H003A33	24	24	0	49	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	12FEB88	12MAR88	14FEB88	13MAR88	1
221H002A33	24	24	0	50	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	15FEB88	14MAR88	16FEB88	15MAR88	1
221H001A33	24	24	0	51	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	17FEB88	16MAR88	17FEB88	16MAR88	0
211H044A34	6	6	0	01	PARAPETS COPING & TANK SUPPORTS	26OCT87	1NOV87	9NOV87	15NOV87	12
211H043A34	6	6	0	02	PARAPETS COPING & TANK SUPPORTS	26OCT87	1NOV87	11NOV87	17NOV87	14
211H042A34	6	6	0	03	PARAPETS COPING & TANK SUPPORTS	26OCT87	1NOV87	14NOV87	19NOV87	16
213H035A34	6	6	0	04	PARAPETS COPING & TANK SUPPORTS	7NOV87	12NOV87	18NOV87	24NOV87	10
213H036A34	6	6	0	05	PARAPETS COPING & TANK SUPPORTS	7NOV87	12NOV87	21NOV87	26NOV87	12
213H037A34	6	6	0	06	PARAPETS COPING & TANK SUPPORTS	7NOV87	12NOV87	23NOV87	29NOV87	14
213H032A34	6	6	0	07	PARAPETS COPING & TANK SUPPORTS	14NOV87	19NOV87	25NOV87	1DEC87	10
213H033A34	6	6	0	08	PARAPETS COPING & TANK SUPPORTS	14NOV87	19NOV87	30NOV87	6DEC87	14
213H034A34	6	6	0	09	PARAPETS COPING & TANK SUPPORTS	17NOV87	23NOV87	2DEC87	8DEC87	13
323H185A34	6	6	0	10	PARAPETS COPING & TANK SUPPORTS	11NOV87	26NOV87	5DEC87	10DEC87	12
323H186A34	6	6	0	11	PARAPETS COPING & TANK SUPPORTS	22NOV87	28NOV87	7DEC87	13DEC87	13
323H187A34	6	6	0	12	PARAPETS COPING & TANK SUPPORTS	24NOV87	30NOV87	12DEC87	17DEC87	15
322H188A34	6	6	0	13	PARAPETS COPING & TANK SUPPORTS	28NOV87	3DEC87	14DEC87	20DEC87	14
322H189A34	6	6	0	14	PARAPETS COPING & TANK SUPPORTS	29NOV87	5DEC87	16DEC87	23DEC87	15
322H190A34	6	6	0	15	PARAPETS COPING & TANK SUPPORTS	1DEC87	7DEC87	19DEC87	24DEC87	15
321H174A34	6	6	0	16	PARAPETS COPING & TANK SUPPORTS	5DEC87	10DEC87	23DEC87	29DEC87	16
321H175A34	6	6	0	17	PARAPETS COPING & TANK SUPPORTS	6DEC87	12DEC87	26DEC87	2JAN88	17
320H176A34	6	6	0	18	PARAPETS COPING & TANK SUPPORTS	8DEC87	14DEC87	28DEC87	4JAN88	17
320H177A34	6	6	0	19	PARAPETS COPING & TANK SUPPORTS	12DEC87	17DEC87	30DEC87	6JAN88	16
320H178A34	6	6	0	20	PARAPETS COPING & TANK SUPPORTS	13DEC87	19DEC87	5JAN88	11JAN88	19
214H031A34	6	6	0	21	PARAPETS COPING & TANK SUPPORTS	15DEC87	21DEC87	7JAN88	13JAN88	19
214H030A34	6	6	0	22	PARAPETS COPING & TANK SUPPORTS	19DEC87	24DEC87	10JAN88	16JAN88	18
214H029A34	6	6	0	23	PARAPETS COPING & TANK SUPPORTS	20DEC87	26DEC87	12JAN88	18JAN88	19
214H028A34	6	6	0	24	PARAPETS COPING & TANK SUPPORTS	22DEC87	28DEC87	17JAN88	23JAN88	21
215H027A34	6	6	0	25	PARAPETS COPING & TANK SUPPORTS	26DEC87	2JAN88	19JAN88	25JAN88	20
215H026A34	6	6	0	26	PARAPETS COPING & TANK SUPPORTS	27DEC87	3JAN88	21JAN88	27JAN88	21
215H025A34	6	6	0	27	PARAPETS COPING & TANK SUPPORTS	29DEC87	5JAN88	24JAN88	30JAN88	21
215H024A34	6	6	0	28	PARAPETS COPING & TANK SUPPORTS	3JAN88	9JAN88	28JAN88	3FEB88	22
215H023A34	6	6	0	29	PARAPETS COPING & TANK SUPPORTS	4JAN88	10JAN88	31JAN88	6FEB88	23
215H022A34	6	6	0	30	PARAPETS COPING & TANK SUPPORTS	6JAN88	12JAN88	2FEB88	8FEB88	23
216H021A34	6	6	0	31	PARAPETS COPING & TANK SUPPORTS	10JAN88	16JAN88	4FEB88	10FEB88	22
216H020A34	6	6	0	32	PARAPETS COPING & TANK SUPPORTS	11JAN88	17JAN88	9FEB88	15FEB88	25
216H019A34	6	6	0	33	PARAPETS COPING & TANK SUPPORTS	13JAN88	19JAN88	11FEB88	17FEB88	25
216H018A34	6	6	0	34	PARAPETS COPING & TANK SUPPORTS	17JAN88	23JAN88	14FEB88	20FEB88	24
217H017A34	6	6	0	35	PARAPETS COPING & TANK SUPPORTS	18JAN88	24JAN88	16FEB88	22FEB88	25
217H016A34	6	6	0	36	PARAPETS COPING & TANK SUPPORTS	20JAN88	26JAN88	21FEB88	28FEB88	27
218H015A34	6	6	0	37	PARAPETS COPING & TANK SUPPORTS	24JAN88	30JAN88	23FEB88	1MAR88	26
218H014A34	6	6	0	38	PARAPETS COPING & TANK SUPPORTS	25JAN88	31JAN88	27FEB88	3MAR88	27
218H013A34	6	6	0	39	PARAPETS COPING & TANK SUPPORTS	27JAN88	2FEB88	29FEB88	6MAR88	28
219H012A34	6	6	0	40	PARAPETS COPING & TANK SUPPORTS	31JAN88	6FEB88	5MAR88	10MAR88	29
219H011A34	6	6	0	41	PARAPETS COPING & TANK SUPPORTS	1FEB88	7FEB88	7MAR88	13MAR88	29
219H010A34	6	6	0	42	PARAPETS COPING & TANK SUPPORTS	3FEB88	9FEB88	9MAR88	15MAR88	29
220H009A34	6	6	0	43	PARAPETS COPING & TANK SUPPORTS	7FEB88	13FEB88	14FEB88	17MAR88	28
220H008A34	6	6	0	44	PARAPETS COPING & TANK SUPPORTS	8FEB88	14FEB88	16MAR88	22MAR88	31
220H007A34	6	6	0	45	PARAPETS COPING & TANK SUPPORTS	10FEB88	16FEB88	20MAR88	26MAR88	32
220H006A34	6	6	0	46	PARAPETS COPING & TANK SUPPORTS	14FEB88	20FEB88	21MAR88	27MAR88	30
220H005A34	6	6	0	47	PARAPETS COPING & TANK SUPPORTS	15FEB88	21FEB88	23MAR88	30MAR88	31
220H004A34	6	6	0	48	PARAPETS COPING & TANK SUPPORTS	17FEB88	23FEB88	25MAR88	4APR88	33
221H003A34	6	6	0	49	PARAPETS COPING & TANK SUPPORTS	21FEB88	28FEB88	2APR88	7APR88	33
221H002A34	6	6	0	50	PARAPETS COPING & TANK SUPPORTS	22FEB88	29FEB88	5APR88	11APR88	35
221H001A34	6	6	0	51	PARAPETS COPING & TANK SUPPORTS	24FEB88	2MAR88	5APR88	11APR88	33
211H044A35	12	12	0	01	PORCELAIN WALL TILES	1NOV87	14NOV87	5NOV87	18NOV87	4
211H043A35	12	12	0	02	PORCELAIN WALL TILES	1NOV87	14NOV87	9NOV87	22NOV87	7
211H042A35	12	12	0	03	PORCELAIN WALL TILES	1NOV87	14NOV87	11NOV87	24NOV87	9
213H035A35	12	12	0	04	PORCELAIN WALL TILES	12NOV87	25NOV87	15NOV87	28NOV87	2
213H036A35	12	12	0	05	PORCELAIN WALL TILES	12NOV87	25NOV87	17NOV87	30NOV87	4
213H037A35	12	12	0	06	PORCELAIN WALL TILES	15NOV87	28NOV87	19NOV87	2DEC87	4
213H032A35	12	12	0	07	PORCELAIN WALL TILES	19NOV87	2DEC87	23NOV87	6DEC87	3
213H033A35	12	12	0	08	PORCELAIN WALL TILES	19NOV87	2DEC87	25NOV87	8DEC87	5
213H034A35	12	12	0	09	PORCELAIN WALL TILES	26NOV87	9DEC87	29NOV87	12DEC87	2
323H185A35	12	12	0	10	PORCELAIN WALL TILES	26NOV87	9DEC87	1DEC87	14DEC87	4
323H186A35	12	12	0	11	PORCELAIN WALL TILES	29NOV87	12DEC87	3DEC87	16DEC87	4
323H187A35	12	12	0	12	PORCELAIN WALL TILES	3DEC87	16DEC87	7DEC87	20DEC87	3
322H188A35	12	12	0	13	PORCELAIN WALL TILES	3DEC87	16DEC87	9DEC87	22DEC87	5
322H189A35	12	12	0	14	PORCELAIN WALL TILES	10DEC87	23DEC87	13DEC87	26DEC87	2
322H190A35	12	12	0	15	PORCELAIN WALL TILES	10DEC87	23DEC87	15DEC87	28DEC87	4
321H174A35	12	12	0	16	PORCELAIN WALL TILES	13DEC87	26DEC87	17DEC87	30DEC87	4
321H175A35	12	12	0	17	PORCELAIN WALL TILES	17DEC87	30DEC87	21DEC87	4JAN88	3
320H176A35	12	12	0	18	PORCELAIN WALL TILES	17DEC87	30DEC87	23DEC87	6JAN88	5
320H177A35	12	12	0	19	PORCELAIN WALL TILES	24DEC87	7JAN88	29DEC87	10JAN88	2
320H178A35	12	12	0	20	PORCELAIN WALL TILES	24DEC87	7JAN88	29DEC87	12JAN88	4
214H031A35	12	12	0	21	PORCELAIN WALL TILES	27DEC87	10JAN88	23JAN88	14JAN88	4
214H030A35	12	12	0	22	PORCELAIN WALL TILES	2JAN88	14JAN88	5JAN88	18JAN88	3
214H029A35	12	12	0	23	PORCELAIN WALL TILES	2JAN88	14JAN88	7JAN88	20JAN88	5
214H028A35	12	12	0	24	PORCELAIN WALL TILES	9JAN88	21JAN88	11JAN88	24JAN88	2
215H027A35	12	12	0	25	PORCELAIN WALL TILES	9JAN88	21JAN88	13JAN88	26JAN88	2
215H026A35	12	12	0	26	PORCELAIN WALL TILES	11JAN88	24JAN88	16JAN88	28JAN88	4
215H025A35	12	12	0	27	PORCELAIN WALL TILES	16JAN88	28JAN88	19JAN88	1FEB88	3

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 19

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
215H024A35	12	12	0	28	PORCELAIN WALL TILES	16JAN88	28JAN88	21JAN88	3FEB88	5
215H023A35	12	12	0	29	PORCELAIN WALL TILES	23JAN88	4FEB88	25JAN88	7FEB88	2
215H022A35	12	12	0	30	PORCELAIN WALL TILES	23JAN88	4FEB88	27JAN88	9FEB88	4
216H021A35	12	12	0	31	PORCELAIN WALL TILES	25JAN88	7FEB88	30JAN88	11FEB88	4
216H020A35	12	12	0	32	PORCELAIN WALL TILES	30JAN88	11FEB88	2FEB88	15FEB88	3
216H019A35	12	12	0	33	PORCELAIN WALL TILES	30JAN88	11FEB88	4FEB88	17FEB88	5
216H018A35	12	12	0	34	PORCELAIN WALL TILES	4FEB88	18FEB88	8FEB88	21FEB88	2
217H017A35	12	12	0	35	PORCELAIN WALL TILES	6FEB88	18FEB88	10FEB88	23FEB88	4
217H016A35	12	12	0	36	PORCELAIN WALL TILES	8FEB88	21FEB88	13FEB88	27FEB88	4
218H015A35	12	12	0	37	PORCELAIN WALL TILES	13FEB88	27FEB88	16FEB88	1MAR88	3
218H014A35	12	12	0	38	PORCELAIN WALL TILES	13FEB88	27FEB88	18FEB88	3MAR88	5
218H013A35	12	12	0	39	PORCELAIN WALL TILES	20FEB88	5MAR88	22FEB88	7MAR88	2
219H012A35	12	12	0	40	PORCELAIN WALL TILES	20FEB88	5MAR88	24FEB88	9MAR88	4
219H011A35	12	12	0	41	PORCELAIN WALL TILES	22FEB88	7MAR88	28FEB88	12MAR88	4
219H010A35	12	12	0	42	PORCELAIN WALL TILES	28FEB88	12MAR88	2MAR88	15MAR88	3
220H009A35	12	12	0	43	PORCELAIN WALL TILES	28FEB88	12MAR88	5MAR88	17MAR88	5
220H008A35	12	12	0	44	PORCELAIN WALL TILES	6MAR88	19MAR88	8MAR88	21MAR88	2
220H007A35	12	12	0	45	PORCELAIN WALL TILES	6MAR88	19MAR88	10MAR88	23MAR88	4
220H006A35	12	12	0	46	PORCELAIN WALL TILES	8MAR88	21MAR88	13MAR88	26MAR88	4
221H005A35	12	12	0	47	PORCELAIN WALL TILES	13MAR88	26MAR88	16MAR88	30MAR88	3
220H004A35	12	12	0	48	PORCELAIN WALL TILES	13MAR88	26MAR88	19MAR88	2APR88	5
221H003A35	12	12	0	49	PORCELAIN WALL TILES	20MAR88	3APR88	22MAR88	5APR88	2
221H002A35	12	12	0	50	PORCELAIN WALL TILES	20MAR88	3APR88	27MAR88	10APR88	6
221H001A35	12	12	0	51	PORCELAIN WALL TILES	22MAR88	5APR88	27MAR88	10APR88	4
211H044A36	10	10	0	01	ROOF FOAM & SCREED	2NOV87	12NOV87	16NOV87	26NOV87	12
211H043A36	10	10	0	02	ROOF FOAM & SCREED	2NOV87	12NOV87	18NOV87	29NOV87	14
211H042A36	10	10	0	03	ROOF FOAM & SCREED	2NOV87	12NOV87	21NOV87	1DEC87	16
213H035A36	10	10	0	04	ROOF FOAM & SCREED	14NOV87	24NOV87	25NOV87	6DEC87	10
213H036A36	10	10	0	05	ROOF FOAM & SCREED	14NOV87	24NOV87	28NOV87	8DEC87	12
213H037A36	10	10	0	06	ROOF FOAM & SCREED	14NOV87	24NOV87	30NOV87	10DEC87	14
213H032A36	10	10	0	07	ROOF FOAM & SCREED	21NOV87	1DEC87	2DEC87	13DEC87	10
213H033A36	10	10	0	08	ROOF FOAM & SCREED	25NOV87	6DEC87	7DEC87	17DEC87	10
213H034A36	10	10	0	09	ROOF FOAM & SCREED	25NOV87	6DEC87	9DEC87	20DEC87	12
323H185A36	10	10	0	10	ROOF FOAM & SCREED	28NOV87	8DEC87	12DEC87	22DEC87	12
323H186A36	10	10	0	11	ROOF FOAM & SCREED	2DEC87	13DEC87	14DEC87	24DEC87	10
323H187A36	10	10	0	12	ROOF FOAM & SCREED	7DEC87	17DEC87	19DEC87	29DEC87	10
323H188A36	10	10	0	13	ROOF FOAM & SCREED	7DEC87	17DEC87	21DEC87	2JAN88	12
323H189A36	10	10	0	14	ROOF FOAM & SCREED	9DEC87	20DEC87	23DEC87	4JAN88	12
322H190A36	10	10	0	15	ROOF FOAM & SCREED	14DEC87	24DEC87	26DEC87	6JAN88	10
321H174A36	10	10	0	16	ROOF FOAM & SCREED	19DEC87	29DEC87	30DEC87	11JAN88	10
321H175A36	10	10	0	17	ROOF FOAM & SCREED	19DEC87	29DEC87	31JAN88	13JAN88	12
320H176A36	10	10	0	18	ROOF FOAM & SCREED	21DEC87	31JAN88	5JAN88	16JAN88	12
320H177A36	10	10	0	19	ROOF FOAM & SCREED	26DEC87	6JAN88	7JAN88	18JAN88	10
320H178A36	10	10	0	20	ROOF FOAM & SCREED	30DEC87	11JAN88	12JAN88	23JAN88	10
214H031A36	10	10	0	21	ROOF FOAM & SCREED	30DEC87	11JAN88	14JAN88	25JAN88	12
214H030A36	10	10	0	22	ROOF FOAM & SCREED	3JAN88	13JAN88	17JAN88	27JAN88	12
214H029A36	10	10	0	23	ROOF FOAM & SCREED	7JAN88	18JAN88	19JAN88	30JAN88	10
214H028A36	10	10	0	24	ROOF FOAM & SCREED	12JAN88	23JAN88	24JAN88	3FEB88	10
215K027A36	10	10	0	25	ROOF FOAM & SCREED	12JAN88	23JAN88	26JAN88	6FEB88	12
215K026A36	10	10	0	26	ROOF FOAM & SCREED	14JAN88	25JAN88	28JAN88	8FEB88	12
215K025A36	10	10	0	27	ROOF FOAM & SCREED	19JAN88	30JAN88	31JAN88	10FEB88	10
215H024A36	10	10	0	28	ROOF FOAM & SCREED	24JAN88	3FEB88	4FEB88	15FEB88	10
215H023A36	10	10	0	29	ROOF FOAM & SCREED	24JAN88	3FEB88	7FEB88	17FEB88	12
215H022A36	10	10	0	30	ROOF FOAM & SCREED	26JAN88	6FEB88	9FEB88	20FEB88	12
216H021A36	10	10	0	31	ROOF FOAM & SCREED	31JAN88	10FEB88	11FEB88	22FEB88	10
216H020A36	10	10	0	32	ROOF FOAM & SCREED	4FEB88	15FEB88	16FEB88	28FEB88	10
216H019A36	10	10	0	33	ROOF FOAM & SCREED	4FEB88	15FEB88	18FEB88	1MAR88	12
216H018A36	10	10	0	34	ROOF FOAM & SCREED	7FEB88	17FEB88	21FEB88	3MAR88	12
217H017A36	10	10	0	35	ROOF FOAM & SCREED	11FEB88	22FEB88	23FEB88	6MAR88	10
217H016A36	10	10	0	36	ROOF FOAM & SCREED	16FEB88	28FEB88	29FEB88	10MAR88	10
218H015A36	10	10	0	37	ROOF FOAM & SCREED	16FEB88	28FEB88	2MAR88	13MAR88	12
218H014A36	10	10	0	38	ROOF FOAM & SCREED	18FEB88	1MAR88	5MAR88	15MAR88	12
218H013A36	10	10	0	39	ROOF FOAM & SCREED	23FEB88	6MAR88	7MAR88	17MAR88	10
219H012A36	10	10	0	40	ROOF FOAM & SCREED	29FEB88	10MAR88	12MAR88	22MAR88	10
219H011A36	10	10	0	41	ROOF FOAM & SCREED	29FEB88	10MAR88	14MAR88	24MAR88	12
219H010A36	10	10	0	42	ROOF FOAM & SCREED	2MAR88	13MAR88	16MAR88	27MAR88	12
220H009A36	10	10	0	43	ROOF FOAM & SCREED	7MAR88	17MAR88	19MAR88	30MAR88	10
220H008A36	10	10	0	44	ROOF FOAM & SCREED	12MAR88	22MAR88	23MAR88	4APR88	10
220H007A36	10	10	0	45	ROOF FOAM & SCREED	12MAR88	22MAR88	27MAR88	7APR88	13
220H006A36	10	10	0	46	ROOF FOAM & SCREED	14MAR88	24MAR88	29MAR88	9APR88	12
220H005A36	10	10	0	47	ROOF FOAM & SCREED	19MAR88	30MAR88	31MAR88	11APR88	10
220H004A36	10	10	0	48	ROOF FOAM & SCREED	23MAR88	4APR88	5APR88	16APR88	10
221H003A36	10	10	0	49	ROOF FOAM & SCREED	23MAR88	4APR88	9APR88	19APR88	13
221H002A36	10	10	0	50	ROOF FOAM & SCREED	26MAR88	6APR88	12APR88	23APR88	14
221H001A36	10	10	0	51	ROOF FOAM & SCREED	31MAR88	11APR88	12APR88	23APR88	10
211H044A37	6	6	0	01	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	3NOV87	9NOV87	24NOV87	30NOV87	18
211H043A37	6	6	0	02	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	3NOV87	9NOV87	28NOV87	3DEC87	21
211H042A37	6	6	0	03	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	4NOV87	16NOV87	30NOV87	6DEC87	22
213H035A37	6	6	0	04	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	15NOV87	21NOV87	3DEC87	9DEC87	16
213H036A37	6	6	0	05	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	15NOV87	21NOV87	6DEC87	12DEC87	18
213H037A37	6	6	0	06	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	16NOV87	22NOV87	8DEC87	14DEC87	19
213H032A37	6	6	0	07	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	23NOV87	29NOV87	12DEC87	17DEC87	16
213H033A37	6	6	0	08	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	24NOV87	30NOV87	14DEC87	20DEC87	17
213H034A37	6	6	0	09	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	25NOV87	1DEC87	17DEC87	23DEC87	19
323H186A37	6	6	0	10	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	1DEC87	7DEC87	20DEC87	26DEC87	16
323H187A37	6	6	0	11	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	2DEC87	8DEC87	22DEC87	28DEC87	17
323H188A37	6	6	0	12	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	3DEC87	9DEC87	26DEC87	2JAN88	19
322H189A37	6	6	0	13	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	9DEC87	15DEC87	28DEC87	4JAN88	16
322H190A37	6	6	0	14	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	10DEC87	16DEC87	2JAN88	7JAN88	18
321H174A37	6	6	0	15	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	12DEC87	17DEC87	4JAN88	10JAN88	19
321H175A37	6	6	0	16	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	17DEC87	23DEC87	6JAN88	12JAN88	16
320H176A37	6	6	0	17	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	19DEC87	24DEC87	10JAN88	16JAN88	18
320H177A37	6	6	0	18	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	20DEC87	26DEC87	12JAN88	18JAN88	19
320H178A37	6	6	0	19	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	26DEC87	2JAN88	16JAN88	21JAN88	17
214H031A37	6	6	0	20	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	27DEC87	3JAN88	18JAN88	24JAN88	18
214H032A37	6	6	0	21	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	28DEC87	4JAN88	20JAN88	26JAN88	19

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO 121
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SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 20

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
214H030A37	6	6	0	22	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	4JAN88	10JAN88	24JAN88	30JAN88	17
214H029A37	6	6	0	23	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	5JAN88	11JAN88	26JAN88	1FEB88	18
214H028A37	6	6	0	24	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	6JAN88	12JAN88	30JAN88	4FEB88	20
215H027A37	6	6	0	25	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	12JAN88	18JAN88	1FEB88	7FEB88	17
215H026A37	6	6	0	26	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	13JAN88	19JAN88	3FEB88	9FEB88	18
215H025A37	6	6	0	27	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	14JAN88	20JAN88	7FEB88	13FEB88	20
215H024A37	6	6	0	28	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	20JAN88	26JAN88	9FEB88	15FEB88	17
215H023A37	6	6	0	29	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	21JAN88	27JAN88	13FEB88	18FEB88	19
215H022A37	6	6	0	30	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	23JAN88	28JAN88	15FEB88	21FEB88	20
216H021A37	6	6	0	31	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	28JAN88	3FEB88	17FEB88	23FEB88	17
216H020A37	6	6	0	32	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	30JAN88	4FEB88	21FEB88	28FEB88	19
216H019A37	6	6	0	33	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	31JAN88	6FEB88	23FEB88	1MAR88	20
216H018A37	6	6	0	34	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	6FEB88	11FEB88	28FEB88	5MAR88	18
217H017A37	6	6	0	35	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	7FEB88	13FEB88	1MAR88	7MAR88	19
217H016A37	6	6	0	36	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	8FEB88	14FEB88	3MAR88	9MAR88	20
218H015A37	6	6	0	37	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	14FEB88	20FEB88	7MAR88	13MAR88	18
218H014A37	6	6	0	38	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	15FEB88	21FEB88	9MAR88	15MAR88	19
218H013A37	6	6	0	39	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	16FEB88	22FEB88	13MAR88	19MAR88	21
219H012A37	6	6	0	40	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	22FEB88	29FEB88	15MAR88	21MAR88	18
219H011A37	6	6	0	41	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	23FEB88	1MAR88	17MAR88	23MAR88	19
219H010A37	6	6	0	42	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	24FEB88	2MAR88	21MAR88	27MAR88	21
220H009A37	6	6	0	43	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	2MAR88	8MAR88	23MAR88	30MAR88	18
220H008A37	6	6	0	44	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	3MAR88	9MAR88	27MAR88	3APR88	20
220H007A37	6	6	0	45	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	5MAR88	10MAR88	30MAR88	5APR88	21
220H006A37	6	6	0	46	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	10MAR88	16MAR88	2APR88	7APR88	18
220H005A37	6	6	0	47	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	12MAR88	17MAR88	5APR88	11APR88	20
220H004A37	6	6	0	48	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	13MAR88	19MAR88	7APR88	13APR88	21
221H003A37	6	6	0	49	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	19MAR88	24MAR88	12APR88	18APR88	20
221H002A37	6	6	0	50	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	20MAR88	26MAR88	16APR88	21APR88	22
221H001A37	6	6	0	51	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	21MAR88	27MAR88	16APR88	21APR88	21
211H044A39	13	13	0	01	TERRAZZO FLOOR TILES & SKIRTING	3NOV87	17NOV87	10NOV87	24NOV87	6
211H043A39	13	13	0	02	TERRAZZO FLOOR TILES & SKIRTING	3NOV87	17NOV87	14NOV87	28NOV87	9
211H042A39	13	13	0	03	TERRAZZO FLOOR TILES & SKIRTING	4NOV87	18NOV87	17NOV87	1DEC87	11
213H035A39	13	13	0	04	TERRAZZO FLOOR TILES & SKIRTING	15NOV87	29NOV87	21NOV87	5DEC87	5
213H034A39	13	13	0	05	TERRAZZO FLOOR TILES & SKIRTING	15NOV87	29NOV87	23NOV87	7DEC87	7
213H033A39	13	13	0	06	TERRAZZO FLOOR TILES & SKIRTING	16NOV87	30NOV87	24NOV87	8DEC87	7
213H032A39	13	13	0	07	TERRAZZO FLOOR TILES & SKIRTING	23NOV87	7DEC87	28NOV87	12DEC87	4
213H031A39	13	13	0	08	TERRAZZO FLOOR TILES & SKIRTING	24NOV87	8DEC87	1DEC87	15DEC87	6
213H030A39	13	13	0	09	TERRAZZO FLOOR TILES & SKIRTING	25NOV87	9DEC87	5DEC87	19DEC87	8
223H185A39	13	13	0	10	TERRAZZO FLOOR TILES & SKIRTING	1DEC87	15DEC87	7DEC87	21DEC87	5
223H186A39	13	13	0	11	TERRAZZO FLOOR TILES & SKIRTING	2DEC87	16DEC87	8DEC87	22DEC87	5
223H187A39	13	13	0	12	TERRAZZO FLOOR TILES & SKIRTING	3DEC87	17DEC87	12DEC87	26DEC87	7
222H188A39	13	13	0	13	TERRAZZO FLOOR TILES & SKIRTING	9DEC87	23DEC87	15DEC87	29DEC87	5
222H189A39	13	13	0	14	TERRAZZO FLOOR TILES & SKIRTING	10DEC87	24DEC87	19DEC87	31AN88	7
222H190A39	13	13	0	15	TERRAZZO FLOOR TILES & SKIRTING	12DEC87	26DEC87	21DEC87	5JAN88	8
221H174A39	13	13	0	16	TERRAZZO FLOOR TILES & SKIRTING	17DEC87	2JAN88	22DEC87	6JAN88	4
221H175A39	13	13	0	17	TERRAZZO FLOOR TILES & SKIRTING	19DEC87	3JAN88	26DEC87	10JAN88	6
220H176A39	13	13	0	18	TERRAZZO FLOOR TILES & SKIRTING	20DEC87	4JAN88	29DEC87	13JAN88	8
220H177A39	13	13	0	19	TERRAZZO FLOOR TILES & SKIRTING	26DEC87	10JAN88	3JAN88	17JAN88	6
220H178A39	13	13	0	20	TERRAZZO FLOOR TILES & SKIRTING	27DEC87	11JAN88	5JAN88	19JAN88	7
214H031A39	13	13	0	21	TERRAZZO FLOOR TILES & SKIRTING	28DEC87	12JAN88	6JAN88	20JAN88	7
214H030A39	13	13	0	22	TERRAZZO FLOOR TILES & SKIRTING	4JAN88	18JAN88	10JAN88	24JAN88	5
214H029A39	13	13	0	23	TERRAZZO FLOOR TILES & SKIRTING	5JAN88	19JAN88	13JAN88	27JAN88	7
214H028A39	13	13	0	24	TERRAZZO FLOOR TILES & SKIRTING	6JAN88	20JAN88	17JAN88	31JAN88	9
215H027A39	13	13	0	25	TERRAZZO FLOOR TILES & SKIRTING	12JAN88	26JAN88	19JAN88	2FEB88	6
215H026A39	13	13	0	26	TERRAZZO FLOOR TILES & SKIRTING	13JAN88	27JAN88	20JAN88	3FEB88	6
215H025A39	13	13	0	27	TERRAZZO FLOOR TILES & SKIRTING	14JAN88	28JAN88	24JAN88	7FEB88	8
215H024A39	13	13	0	28	TERRAZZO FLOOR TILES & SKIRTING	20JAN88	3FEB88	27JAN88	10FEB88	6
215H023A39	13	13	0	29	TERRAZZO FLOOR TILES & SKIRTING	21JAN88	4FEB88	31JAN88	14FEB88	8
215H022A39	13	13	0	30	TERRAZZO FLOOR TILES & SKIRTING	23JAN88	6FEB88	3FEB88	16FEB88	9
216H021A39	13	13	0	31	TERRAZZO FLOOR TILES & SKIRTING	28JAN88	11FEB88	3FEB88	17FEB88	5
216H020A39	13	13	0	32	TERRAZZO FLOOR TILES & SKIRTING	30JAN88	13FEB88	7FEB88	21FEB88	7
216H019A39	13	13	0	33	TERRAZZO FLOOR TILES & SKIRTING	31JAN88	14FEB88	10FEB88	24FEB88	9
216H018A39	13	13	0	34	TERRAZZO FLOOR TILES & SKIRTING	6FEB88	20FEB88	14FEB88	29FEB88	7
217H017A39	13	13	0	35	TERRAZZO FLOOR TILES & SKIRTING	7FEB88	21FEB88	16FEB88	2MAR88	8
217H016A39	13	13	0	36	TERRAZZO FLOOR TILES & SKIRTING	8FEB88	22FEB88	17FEB88	3MAR88	8
218H015A39	13	13	0	37	TERRAZZO FLOOR TILES & SKIRTING	14FEB88	29FEB88	21FEB88	7MAR88	6
218H014A39	13	13	0	38	TERRAZZO FLOOR TILES & SKIRTING	15FEB88	1MAR88	24FEB88	10MAR88	8
218H013A39	13	13	0	39	TERRAZZO FLOOR TILES & SKIRTING	16FEB88	2MAR88	29FEB88	14MAR88	10
219H012A39	13	13	0	40	TERRAZZO FLOOR TILES & SKIRTING	22FEB88	8MAR88	2MAR88	16MAR88	7
219H011A39	13	13	0	41	TERRAZZO FLOOR TILES & SKIRTING	23FEB88	9MAR88	3MAR88	17MAR88	7
219H010A39	13	13	0	42	TERRAZZO FLOOR TILES & SKIRTING	24FEB88	10MAR88	7MAR88	21MAR88	9
220H009A39	13	13	0	43	TERRAZZO FLOOR TILES & SKIRTING	2MAR88	16MAR88	10MAR88	24MAR88	7
220H008A39	13	13	0	44	TERRAZZO FLOOR TILES & SKIRTING	3MAR88	17MAR88	14MAR88	29MAR88	9
220H007A39	13	13	0	45	TERRAZZO FLOOR TILES & SKIRTING	5MAR88	19MAR88	16MAR88	31MAR88	10
220H006A39	13	13	0	46	TERRAZZO FLOOR TILES & SKIRTING	10MAR88	24MAR88	17MAR88	2APR88	6
220H005A39	13	13	0	47	TERRAZZO FLOOR TILES & SKIRTING	12MAR88	26MAR88	21MAR88	5APR88	8
220H004A39	13	13	0	48	TERRAZZO FLOOR TILES & SKIRTING	13MAR88	27MAR88	24MAR88	9APR88	10
221H003A39	13	13	0	49	TERRAZZO FLOOR TILES & SKIRTING	19MAR88	3APR88	29MAR88	12APR88	8
221H002A39	13	13	0	50	TERRAZZO FLOOR TILES & SKIRTING	20MAR88	4APR88	2APR88	16APR88	10
221H001A39	13	13	0	51	TERRAZZO FLOOR TILES & SKIRTING	21MAR88	5APR88	2APR88	16APR88	9
211H044A40	6	6	0	01	ROOF WATER PROOFING LAYERS	14NOV87	19NOV87	30NOV87	6DEC87	14
211H043A40	6	6	0	02	ROOF WATER PROOFING LAYERS	14NOV87	19NOV87	2DEC87	8DEC87	16
211H042A40	6	6	0	03	ROOF WATER PROOFING LAYERS	14NOV87	19NOV87	5DEC87	10DEC87	18
213H035A40	6	6	0	04	ROOF WATER PROOFING LAYERS	25NOV87	1DEC87	8DEC87	14DEC87	11
213H034A40	6	6	0	05	ROOF WATER PROOFING LAYERS	25NOV87	1DEC87	12DEC87	17DEC87	14
213H033A40	6	6	0	06	ROOF WATER PROOFING LAYERS	25NOV87	1DEC87	14DEC87	20DEC87	16
213H032A40	6	6	0	07	ROOF WATER PROOFING LAYERS	2DEC87	8DEC87	16DEC87	22DEC87	12
213H031A40	6	6	0	08	ROOF WATER PROOFING LAYERS	7DEC87	13DEC87	20DEC87	26DEC87	11
213H030A40	6	6	0	09	ROOF WATER PROOFING LAYERS	7DEC87	13DEC87	23DEC87	29DEC87	14
223H185A40	6	6	0	10	ROOF WATER PROOFING LAYERS	9DEC87	15DEC87	26DEC87	2JAN88	14
223H186A40	6	6	0	11	ROOF WATER PROOFING LAYERS	14DEC87	20DEC87	28DEC87	4JAN88	12
223H187A40	6	6	0	12	ROOF WATER PROOFING LAYERS	19DEC87	24DEC87	2JAN88	7JAN88	14
222H188A40	6	6	0	13	ROOF WATER PROOFING LAYERS	19DEC87	24DEC87	5JAN88	11JAN88	14
222H189A40	6	6	0	14	ROOF WATER PROOFING LAYERS	21DEC87	27DEC87	7JAN88	13JAN88	14
222H190A40	6	6	0	15	ROOF WATER PROOFING LAYERS	26DEC87	2JAN88	10JAN88	16JAN88	12

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 21

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
321H174A40	6	6	0	16	ROOF WATER PROOFING LAYERS	30DEC87	6JAN88	13JAN88	19JAN88	11
321H175A40	6	6	0	17	ROOF WATER PROOFING LAYERS	30DEC87	6JAN88	17JAN88	23JAN88	14
320H176A40	6	6	0	18	ROOF WATER PROOFING LAYERS	3JAN88	9JAN88	19JAN88	25JAN88	14
320H177A40	6	6	0	19	ROOF WATER PROOFING LAYERS	7JAN88	13JAN88	21JAN88	27JAN88	12
320H178A40	6	6	0	20	ROOF WATER PROOFING LAYERS	12JAN88	18JAN88	25JAN88	31JAN88	11
214H031A40	6	6	0	21	ROOF WATER PROOFING LAYERS	12JAN88	18JAN88	28JAN88	3FEB88	14
214H032A40	6	6	0	22	ROOF WATER PROOFING LAYERS	14JAN88	20JAN88	31JAN88	6FEB88	14
214H029A40	6	6	0	23	ROOF WATER PROOFING LAYERS	19JAN88	25JAN88	2FEB88	8FEB88	12
214H028A40	6	6	0	24	ROOF WATER PROOFING LAYERS	24JAN88	30JAN88	6FEB88	11FEB88	11
215H027A40	6	6	0	25	ROOF WATER PROOFING LAYERS	24JAN88	30JAN88	9FEB88	15FEB88	14
215H026A40	6	6	0	26	ROOF WATER PROOFING LAYERS	26JAN88	1FEB88	11FEB88	17FEB88	14
215H025A40	6	6	0	27	ROOF WATER PROOFING LAYERS	31JAN88	6FEB88	14FEB88	20FEB88	12
215H024A40	6	6	0	28	ROOF WATER PROOFING LAYERS	4FEB88	10FEB88	17FEB88	23FEB88	11
215H023A40	6	6	0	29	ROOF WATER PROOFING LAYERS	4FEB88	10FEB88	21FEB88	28FEB88	14
215H022A40	6	6	0	30	ROOF WATER PROOFING LAYERS	7FEB88	13FEB88	23FEB88	1MAR88	14
216H021A40	6	6	0	31	ROOF WATER PROOFING LAYERS	11FEB88	17FEB88	27FEB88	3MAR88	12
216H020A40	6	6	0	32	ROOF WATER PROOFING LAYERS	16FEB88	22FEB88	1MAR88	7MAR88	11
216H019A40	6	6	0	33	ROOF WATER PROOFING LAYERS	16FEB88	22FEB88	5MAR88	10MAR88	14
216H018A40	6	6	0	34	ROOF WATER PROOFING LAYERS	18FEB88	24FEB88	7MAR88	13MAR88	14
217H017A40	6	6	0	35	ROOF WATER PROOFING LAYERS	21FEB88	1MAR88	9MAR88	15MAR88	12
217H016A40	6	6	0	36	ROOF WATER PROOFING LAYERS	29FEB88	6MAR88	12MAR88	17MAR88	10
218H015A40	6	6	0	37	ROOF WATER PROOFING LAYERS	29FEB88	6MAR88	15MAR88	21MAR88	13
218H014A40	6	6	0	38	ROOF WATER PROOFING LAYERS	2MAR88	8MAR88	19MAR88	24MAR88	14
218H013A40	6	6	0	39	ROOF WATER PROOFING LAYERS	7MAR88	13MAR88	21MAR88	27MAR88	12
219H012A40	6	6	0	40	ROOF WATER PROOFING LAYERS	12MAR88	17MAR88	24MAR88	31MAR88	11
219H011A40	6	6	0	41	ROOF WATER PROOFING LAYERS	12MAR88	17MAR88	26MAR88	2APR88	12
219H010A40	6	6	0	42	ROOF WATER PROOFING LAYERS	14MAR88	20MAR88	30MAR88	5APR88	13
220H009A40	6	6	0	43	ROOF WATER PROOFING LAYERS	19MAR88	24MAR88	3APR88	9APR88	12
220H008A40	6	6	0	44	ROOF WATER PROOFING LAYERS	23MAR88	30MAR88	6APR88	12APR88	11
220H007A40	6	6	0	45	ROOF WATER PROOFING LAYERS	23MAR88	30MAR88	10APR88	16APR88	14
220H006A40	6	6	0	46	ROOF WATER PROOFING LAYERS	26MAR88	2APR88	10APR88	16APR88	12
220H005A40	6	6	0	47	ROOF WATER PROOFING LAYERS	31MAR88	6APR88	13APR88	19APR88	11
220H004A40	6	6	0	48	ROOF WATER PROOFING LAYERS	5APR88	11APR88	17APR88	23APR88	10
221H003A40	6	6	0	49	ROOF WATER PROOFING LAYERS	5APR88	11APR88	20APR88	26APR88	13
221H002A40	6	6	0	50	ROOF WATER PROOFING LAYERS	7APR88	13APR88	24APR88	30APR88	14
221H001A40	6	6	0	51	ROOF WATER PROOFING LAYERS	12APR88	18APR88	24APR88	30APR88	10
211H044A41	4	4	0	01	SANITARY FITTINGS (Floor Embedded)	15NOV87	18NOV87	19NOV87	23NOV87	4
211H043A41	4	4	0	02	SANITARY FITTINGS (Floor Embedded)	15NOV87	18NOV87	23NOV87	26NOV87	7
211H042A41	4	4	0	03	SANITARY FITTINGS (Floor Embedded)	19NOV87	23NOV87	25NOV87	29NOV87	5
213H035A41	4	4	0	04	SANITARY FITTINGS (Floor Embedded)	26NOV87	30NOV87	29NOV87	2DEC87	2
213H036A41	4	4	0	05	SANITARY FITTINGS (Floor Embedded)	26NOV87	30NOV87	1DEC87	5DEC87	4
213H037A41	4	4	0	06	SANITARY FITTINGS (Floor Embedded)	1DEC87	5DEC87	3DEC87	7DEC87	2
213H032A41	4	4	0	07	SANITARY FITTINGS (Floor Embedded)	3DEC87	7DEC87	7DEC87	10DEC87	3
213H033A41	4	4	0	08	SANITARY FITTINGS (Floor Embedded)	6DEC87	9DEC87	9DEC87	13DEC87	3
213H034A41	4	4	0	09	SANITARY FITTINGS (Floor Embedded)	10DEC87	14DEC87	13DEC87	16DEC87	2
323H185A41	4	4	0	10	SANITARY FITTINGS (Floor Embedded)	10DEC87	14DEC87	15DEC87	19DEC87	4
323H186A41	4	4	0	11	SANITARY FITTINGS (Floor Embedded)	15DEC87	19DEC87	17DEC87	21DEC87	2
323H187A41	4	4	0	12	SANITARY FITTINGS (Floor Embedded)	17DEC87	21DEC87	21DEC87	24DEC87	3
322H189A41	4	4	0	13	SANITARY FITTINGS (Floor Embedded)	20DEC87	23DEC87	23DEC87	27DEC87	3
322H189A41	4	4	0	14	SANITARY FITTINGS (Floor Embedded)	24DEC87	28DEC87	27DEC87	30DEC87	2
322H190A41	4	4	0	15	SANITARY FITTINGS (Floor Embedded)	24DEC87	28DEC87	29DEC87	31DEC87	4
321H174A41	4	4	0	16	SANITARY FITTINGS (Floor Embedded)	29DEC87	31JAN88	2JAN88	5JAN88	2
321H175A41	4	4	0	17	SANITARY FITTINGS (Floor Embedded)	2JAN88	5JAN88	5JAN88	9JAN88	3
320H176A41	4	4	0	18	SANITARY FITTINGS (Floor Embedded)	4JAN88	7JAN88	7JAN88	11JAN88	3
320H177A41	4	4	0	19	SANITARY FITTINGS (Floor Embedded)	9JAN88	12JAN88	11JAN88	14JAN88	2
320H178A41	4	4	0	20	SANITARY FITTINGS (Floor Embedded)	9JAN88	12JAN88	13JAN88	17JAN88	4
214H031A41	4	4	0	21	SANITARY FITTINGS (Floor Embedded)	11JAN88	17JAN88	16JAN88	19JAN88	2
214H032A41	4	4	0	22	SANITARY FITTINGS (Floor Embedded)	16JAN88	19JAN88	19JAN88	23JAN88	3
214H029A41	4	4	0	23	SANITARY FITTINGS (Floor Embedded)	18JAN88	21JAN88	21JAN88	25JAN88	3
214H028A41	4	4	0	24	SANITARY FITTINGS (Floor Embedded)	23JAN88	26JAN88	25JAN88	28JAN88	2
215H027A41	4	4	0	25	SANITARY FITTINGS (Floor Embedded)	23JAN88	26JAN88	27JAN88	31JAN88	4
215H026A41	4	4	0	26	SANITARY FITTINGS (Floor Embedded)	27JAN88	31JAN88	30JAN88	2FEB88	2
215H025A41	4	4	0	27	SANITARY FITTINGS (Floor Embedded)	30JAN88	2FEB88	2FEB88	6FEB88	3
215H024A41	4	4	0	28	SANITARY FITTINGS (Floor Embedded)	1FEB88	4FEB88	4FEB88	8FEB88	2
215H023A41	4	4	0	29	SANITARY FITTINGS (Floor Embedded)	6FEB88	9FEB88	8FEB88	11FEB88	3
215H022A41	4	4	0	30	SANITARY FITTINGS (Floor Embedded)	6FEB88	9FEB88	10FEB88	14FEB88	4
216H021A41	4	4	0	31	SANITARY FITTINGS (Floor Embedded)	10FEB88	14FEB88	13FEB88	16FEB88	2
216H020A41	4	4	0	32	SANITARY FITTINGS (Floor Embedded)	13FEB88	16FEB88	16FEB88	20FEB88	3
216H019A41	4	4	0	33	SANITARY FITTINGS (Floor Embedded)	15FEB88	18FEB88	18FEB88	22FEB88	3
216H018A41	4	4	0	34	SANITARY FITTINGS (Floor Embedded)	20FEB88	23FEB88	22FEB88	27FEB88	2
217H017A41	4	4	0	35	SANITARY FITTINGS (Floor Embedded)	20FEB88	23FEB88	24FEB88	29FEB88	4
217H016A41	4	4	0	36	SANITARY FITTINGS (Floor Embedded)	24FEB88	29FEB88	28FEB88	2MAR88	2
218H015A41	4	4	0	37	SANITARY FITTINGS (Floor Embedded)	28FEB88	2MAR88	2MAR88	6MAR88	3
218H014A41	4	4	0	38	SANITARY FITTINGS (Floor Embedded)	1MAR88	5MAR88	5MAR88	8MAR88	3
218H013A41	4	4	0	39	SANITARY FITTINGS (Floor Embedded)	6MAR88	9MAR88	8MAR88	12MAR88	2
219H012A41	4	4	0	40	SANITARY FITTINGS (Floor Embedded)	6MAR88	9MAR88	10MAR88	14MAR88	4
219H011A41	4	4	0	41	SANITARY FITTINGS (Floor Embedded)	10MAR88	14MAR88	13MAR88	16MAR88	2
219H010A41	4	4	0	42	SANITARY FITTINGS (Floor Embedded)	13MAR88	16MAR88	16MAR88	20MAR88	3
220H009A41	4	4	0	43	SANITARY FITTINGS (Floor Embedded)	15MAR88	19MAR88	19MAR88	22MAR88	3
220H008A41	4	4	0	44	SANITARY FITTINGS (Floor Embedded)	20MAR88	23MAR88	22MAR88	26MAR88	2
220H007A41	4	4	0	45	SANITARY FITTINGS (Floor Embedded)	20MAR88	23MAR88	24MAR88	29MAR88	4
220H006A41	4	4	0	46	SANITARY FITTINGS (Floor Embedded)	24MAR88	29MAR88	27MAR88	31MAR88	2
220H005A41	4	4	0	47	SANITARY FITTINGS (Floor Embedded)	27MAR88	31MAR88	31MAR88	4APR88	3
220H004A41	4	4	0	48	SANITARY FITTINGS (Floor Embedded)	30MAR88	3APR88	3APR88	6APR88	3
221H003A41	4	4	0	49	SANITARY FITTINGS (Floor Embedded)	4APR88	7APR88	6APR88	10APR88	2
221H002A41	4	4	0	50	SANITARY FITTINGS (Floor Embedded)	4APR88	7APR88	11APR88	14APR88	6
221H001A41	4	4	0	51	SANITARY FITTINGS (Floor Embedded)	9APR88	12APR88	12APR88	16APR88	2
211H044A42	6	6	0	01	MARBLE STAIRS & SKIRTING	18NOV87	24NOV87	25NOV87	1DEC87	6
211H043A42	6	6	0	02	MARBLE STAIRS & SKIRTING	18NOV87	25NOV87	29NOV87	5DEC87	9
213H035A42	6	6	0	03	MARBLE STAIRS & SKIRTING	18NOV87	25NOV87	2DEC87	8DEC87	11
213H036A42	6	6	0	04	MARBLE STAIRS & SKIRTING	30NOV87	6DEC87	6DEC87	12DEC87	5
213H037A42	6	6	0	05	MARBLE STAIRS & SKIRTING	30NOV87	6DEC87	9DEC87	15DEC87	8
213H032A42	6	6	0	06	MARBLE STAIRS & SKIRTING	1DEC87	7DEC87	9DEC87	15DEC87	7
213H033A42	6	6	0	07	MARBLE STAIRS & SKIRTING	8DEC87	14DEC87	13DEC87	19DEC87	4
213H034A42	6	6	0	08	MARBLE STAIRS & SKIRTING	9DEC87	15DEC87	16DEC87	22DEC87	6
213H035A42	6	6	0	09	MARBLE STAIRS & SKIRTING	10DEC87	16DEC87	20DEC87	26DEC87	8

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 22

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
323H185A42	6	6	0	10	MARBLE STAIRS & SKIRTING	16DEC87	22DEC87	23DEC87	29DEC87	6
323H186A42	6	6	0	11	MARBLE STAIRS & SKIRTING	17DEC87	23DEC87	23DEC87	29DEC87	5
323H187A42	6	6	0	12	MARBLE STAIRS & SKIRTING	19DEC87	24DEC87	27DEC87	31JAN88	7
322H188A42	6	6	0	13	MARBLE STAIRS & SKIRTING	24DEC87	30DEC87	30DEC87	6JAN88	5
322H189A42	6	6	0	14	MARBLE STAIRS & SKIRTING	26DEC87	21JAN88	4JAN88	10JAN88	7
322H190A42	6	6	0	15	MARBLE STAIRS & SKIRTING	27DEC87	31JAN88	7JAN88	13JAN88	9
321H174A42	6	6	0	16	MARBLE STAIRS & SKIRTING	31JAN88	9JAN88	7JAN88	13JAN88	4
321H175A42	6	6	0	17	MARBLE STAIRS & SKIRTING	4JAN88	10JAN88	11JAN88	17JAN88	6
320H176A42	6	6	0	18	MARBLE STAIRS & SKIRTING	5JAN88	11JAN88	14JAN88	20JAN88	8
320H177A42	6	6	0	19	MARBLE STAIRS & SKIRTING	11JAN88	17JAN88	18JAN88	24JAN88	6
320H178A42	6	6	0	20	MARBLE STAIRS & SKIRTING	12JAN88	18JAN88	21JAN88	27JAN88	8
214H031A42	6	6	0	21	MARBLE STAIRS & SKIRTING	13JAN88	19JAN88	21JAN88	27JAN88	7
214H030A42	6	6	0	22	MARBLE STAIRS & SKIRTING	19JAN88	25JAN88	25JAN88	31JAN88	5
214H029A42	6	6	0	23	MARBLE STAIRS & SKIRTING	20JAN88	26JAN88	28JAN88	3FEB88	7
214H028A42	6	6	0	24	MARBLE STAIRS & SKIRTING	21JAN88	27JAN88	1FEB88	7FEB88	9
215H027A42	6	6	0	25	MARBLE STAIRS & SKIRTING	27JAN88	2FEB88	4FEB88	10FEB88	7
215H026A42	6	6	0	26	MARBLE STAIRS & SKIRTING	28JAN88	3FEB88	4FEB88	10FEB88	6
215H025A42	6	6	0	27	MARBLE STAIRS & SKIRTING	30JAN88	4FEB88	8FEB88	14FEB88	8
215H024A42	6	6	0	28	MARBLE STAIRS & SKIRTING	4FEB88	10FEB88	11FEB88	17FEB88	6
215H023A42	6	6	0	29	MARBLE STAIRS & SKIRTING	6FEB88	11FEB88	15FEB88	21FEB88	8
215H022A42	6	6	0	30	MARBLE STAIRS & SKIRTING	7FEB88	13FEB88	18FEB88	24FEB88	10
216H021A42	6	6	0	31	MARBLE STAIRS & SKIRTING	13FEB88	18FEB88	18FEB88	24FEB88	5
216H020A42	6	6	0	32	MARBLE STAIRS & SKIRTING	14FEB88	20FEB88	22FEB88	29FEB88	7
216H019A42	6	6	0	33	MARBLE STAIRS & SKIRTING	15FEB88	21FEB88	27FEB88	3MAR88	9
216H018A42	6	6	0	34	MARBLE STAIRS & SKIRTING	21FEB88	28FEB88	1MAR88	7MAR88	7
217H017A42	6	6	0	35	MARBLE STAIRS & SKIRTING	22FEB88	29FEB88	5MAR88	10MAR88	9
217H016A42	6	6	0	36	MARBLE STAIRS & SKIRTING	23FEB88	1MAR88	5MAR88	10MAR88	8
218H015A42	6	6	0	37	MARBLE STAIRS & SKIRTING	1MAR88	7MAR88	8MAR88	14MAR88	6
218H014A42	6	6	0	38	MARBLE STAIRS & SKIRTING	2MAR88	8MAR88	12MAR88	17MAR88	8
218H013A42	6	6	0	39	MARBLE STAIRS & SKIRTING	3MAR88	9MAR88	15MAR88	21MAR88	10
219H012A42	6	6	0	40	MARBLE STAIRS & SKIRTING	9MAR88	15MAR88	19MAR88	24MAR88	8
219H011A42	6	6	0	41	MARBLE STAIRS & SKIRTING	10MAR88	16MAR88	19MAR88	24MAR88	7
219H010A42	6	6	0	42	MARBLE STAIRS & SKIRTING	12MAR88	17MAR88	22MAR88	29MAR88	9
220H009A42	6	6	0	43	MARBLE STAIRS & SKIRTING	17MAR88	23MAR88	26MAR88	2APR88	7
220H008A42	6	6	0	44	MARBLE STAIRS & SKIRTING	19MAR88	24MAR88	30MAR88	5APR88	9
220H007A42	6	6	0	45	MARBLE STAIRS & SKIRTING	20MAR88	26MAR88	3APR88	9APR88	11
220H006A42	6	6	0	46	MARBLE STAIRS & SKIRTING	26MAR88	2APR88	3APR88	9APR88	6
220H005A42	6	6	0	47	MARBLE STAIRS & SKIRTING	27MAR88	3APR88	6APR88	12APR88	8
220H004A42	6	6	0	48	MARBLE STAIRS & SKIRTING	29MAR88	4APR88	10APR88	16APR88	10
221H003A42	6	6	0	49	MARBLE STAIRS & SKIRTING	4APR88	10APR88	11APR88	19APR88	8
221H002A42	6	6	0	50	MARBLE STAIRS & SKIRTING	5APR88	11APR88	17APR88	23APR88	10
221H001A42	6	6	0	51	MARBLE STAIRS & SKIRTING	6APR88	12APR88	17APR88	23APR88	9
211H044A44	4	4	0	01	JOINARY WORKS	18NOV87	22NOV87	5DEC87	8DEC87	14
211H043A44	4	4	0	02	JOINARY WORKS	18NOV87	22NOV87	8DEC87	12DEC87	17
211H042A44	4	4	0	03	JOINARY WORKS	23NOV87	26NOV87	12DEC87	15DEC87	16
213H035A43	4	4	0	04	JOINARY WORKS	30NOV87	3DEC87	14DEC87	17DEC87	12
213H034A43	4	4	0	05	JOINARY WORKS	30NOV87	3DEC87	17DEC87	21DEC87	15
213H033A43	4	4	0	06	JOINARY WORKS	5DEC87	8DEC87	19DEC87	22DEC87	12
213H032A43	4	4	0	07	JOINARY WORKS	8DEC87	12DEC87	22DEC87	26DEC87	12
213H031A43	4	4	0	08	JOINARY WORKS	9DEC87	13DEC87	26DEC87	29DEC87	14
213H030A43	4	4	0	09	JOINARY WORKS	13DEC87	16DEC87	28DEC87	2JAN88	13
323H185A43	4	4	0	10	JOINARY WORKS	16DEC87	20DEC87	21JAN88	5JAN88	13
323H186A43	4	4	0	11	JOINARY WORKS	17DEC87	21DEC87	3JAN88	6JAN88	13
323H187A43	4	4	0	12	JOINARY WORKS	21DEC87	24DEC87	6JAN88	10JAN88	13
322H188A43	4	4	0	13	JOINARY WORKS	24DEC87	28DEC87	10JAN88	13JAN88	13
322H189A43	4	4	0	14	JOINARY WORKS	26DEC87	29DEC87	12JAN88	16JAN88	14
322H190A43	4	4	0	15	JOINARY WORKS	29DEC87	3JAN88	16JAN88	19JAN88	14
321H174A43	4	4	0	16	JOINARY WORKS	3JAN88	6JAN88	17JAN88	20JAN88	12
321H175A43	4	4	0	17	JOINARY WORKS	4JAN88	7JAN88	20JAN88	24JAN88	14
320H176A43	4	4	0	18	JOINARY WORKS	7JAN88	11JAN88	24JAN88	27JAN88	14
320H177A43	4	4	0	19	JOINARY WORKS	11JAN88	14JAN88	26JAN88	30JAN88	13
320H178A43	4	4	0	20	JOINARY WORKS	12JAN88	16JAN88	30JAN88	2FEB88	15
214H031A43	4	4	0	21	JOINARY WORKS	16JAN88	19JAN88	31JAN88	3FEB88	13
214H030A43	4	4	0	22	JOINARY WORKS	19JAN88	23JAN88	3FEB88	7FEB88	13
214H029A43	4	4	0	23	JOINARY WORKS	20JAN88	24JAN88	7FEB88	10FEB88	15
214H028A43	4	4	0	24	JOINARY WORKS	24JAN88	27JAN88	9FEB88	13FEB88	14
215H027A43	4	4	0	25	JOINARY WORKS	27JAN88	31JAN88	13FEB88	16FEB88	14
215H026A43	4	4	0	26	JOINARY WORKS	28JAN88	1FEB88	14FEB88	17FEB88	14
215H025A43	4	4	0	27	JOINARY WORKS	1FEB88	4FEB88	17FEB88	21FEB88	14
215H024A43	4	4	0	28	JOINARY WORKS	4FEB88	8FEB88	21FEB88	24FEB88	14
215H023A43	4	4	0	29	JOINARY WORKS	6FEB88	9FEB88	21FEB88	28FEB88	15
215H022A43	4	4	0	30	JOINARY WORKS	9FEB88	13FEB88	26FEB88	2MAR88	15
216H021A43	4	4	0	31	JOINARY WORKS	13FEB88	16FEB88	29FEB88	3MAR88	13
216H020A43	4	4	0	32	JOINARY WORKS	14FEB88	17FEB88	3MAR88	7MAR88	15
216H019A43	4	4	0	33	JOINARY WORKS	17FEB88	21FEB88	7MAR88	10MAR88	15
216H018A43	4	4	0	34	JOINARY WORKS	21FEB88	24FEB88	9MAR88	13MAR88	14
217H017A43	4	4	0	35	JOINARY WORKS	22FEB88	27FEB88	13MAR88	16MAR88	16
217H016A43	4	4	0	36	JOINARY WORKS	27FEB88	1MAR88	14MAR88	17MAR88	14
218H015A43	4	4	0	37	JOINARY WORKS	1MAR88	5MAR88	17MAR88	21MAR88	14
218H014A43	4	4	0	38	JOINARY WORKS	2MAR88	6MAR88	21MAR88	24MAR88	16
218H013A43	4	4	0	39	JOINARY WORKS	6MAR88	9MAR88	23MAR88	27MAR88	15
219H012A43	4	4	0	40	JOINARY WORKS	9MAR88	13MAR88	27MAR88	31MAR88	15
219H011A43	4	4	0	41	JOINARY WORKS	10MAR88	14MAR88	29MAR88	2APR88	15
219H010A43	4	4	0	42	JOINARY WORKS	14MAR88	17MAR88	2APR88	5APR88	15
220H009A43	4	4	0	43	JOINARY WORKS	17MAR88	21MAR88	5APR88	9APR88	15
220H008A43	4	4	0	44	JOINARY WORKS	19MAR88	22MAR88	7APR88	11APR88	16
220H007A43	4	4	0	45	JOINARY WORKS	22MAR88	26MAR88	11APR88	14APR88	16
220H006A43	4	4	0	46	JOINARY WORKS	26MAR88	30MAR88	12APR88	16APR88	14
220H005A43	4	4	0	47	JOINARY WORKS	27MAR88	31MAR88	16APR88	19APR88	16
220H004A43	4	4	0	48	JOINARY WORKS	31MAR88	4APR88	19APR88	23APR88	16
221H003A43	4	4	0	49	JOINARY WORKS	4APR88	7APR88	21APR88	25APR88	15
221H002A43	4	4	0	50	JOINARY WORKS	5APR88	9APR88	26APR88	30APR88	18
221H001A43	4	4	0	51	JOINARY WORKS	9APR88	12APR88	26APR88	30APR88	15
211H044A44	6	6	0	01	WATERPROOFING IN WET FLOOR AREAS	19NOV87	25NOV87	24NOV87	30NOV87	4
211H043A44	6	6	0	02	WATERPROOFING IN WET FLOOR AREAS	19NOV87	25NOV87	28NOV87	3DEC87	7
211H042A44	6	6	0	03	WATERPROOFING IN WET FLOOR AREAS	24NOV87	30NOV87	30NOV87	6DEC87	5

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG95

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 23

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
213H035A44	6	6	0	04	WATERPROOFING IN WET FLOOR AREAS	1DEC87	7DEC87	3DEC87	9DEC87	2
213H036A44	6	6	0	05	WATERPROOFING IN WET FLOOR AREAS	1DEC87	7DEC87	6DEC87	12DEC87	4
213H037A44	6	6	0	06	WATERPROOFING IN WET FLOOR AREAS	6DEC87	12DEC87	8DEC87	14DEC87	2
213H032A44	6	6	0	07	WATERPROOFING IN WET FLOOR AREAS	8DEC87	14DEC87	12DEC87	17DEC87	3
213H033A44	6	6	0	08	WATERPROOFING IN WET FLOOR AREAS	10DEC87	16DEC87	14DEC87	20DEC87	3
213H034A44	6	6	0	09	WATERPROOFING IN WET FLOOR AREAS	15DEC87	21DEC87	17DEC87	23DEC87	2
323H185A44	6	6	0	10	WATERPROOFING IN WET FLOOR AREAS	15DEC87	21DEC87	20DEC87	26DEC87	4
323H186A44	6	6	0	11	WATERPROOFING IN WET FLOOR AREAS	20DEC87	26DEC87	22DEC87	28DEC87	2
323H187A44	6	6	0	12	WATERPROOFING IN WET FLOOR AREAS	22DEC87	28DEC87	26DEC87	27JAN88	3
323H188A44	6	6	0	13	WATERPROOFING IN WET FLOOR AREAS	24DEC87	30DEC87	28DEC87	47JAN88	3
323H189A44	6	6	0	14	WATERPROOFING IN WET FLOOR AREAS	29DEC87	5JAN88	27JAN88	7JAN88	2
323H190A44	6	6	0	15	WATERPROOFING IN WET FLOOR AREAS	29DEC87	5JAN88	47JAN88	10JAN88	4
323H174A44	6	6	0	16	WATERPROOFING IN WET FLOOR AREAS	47JAN88	10JAN88	67JAN88	12JAN88	2
323H175A44	6	6	0	17	WATERPROOFING IN WET FLOOR AREAS	67JAN88	12JAN88	107JAN88	16JAN88	3
320H176A44	6	6	0	18	WATERPROOFING IN WET FLOOR AREAS	97JAN88	14JAN88	127JAN88	18JAN88	3
320H177A44	6	6	0	19	WATERPROOFING IN WET FLOOR AREAS	137JAN88	19JAN88	167JAN88	21JAN88	2
320H178A44	6	6	0	20	WATERPROOFING IN WET FLOOR AREAS	137JAN88	19JAN88	187JAN88	24JAN88	4
214H031A44	6	6	0	21	WATERPROOFING IN WET FLOOR AREAS	187JAN88	24JAN88	207JAN88	26JAN88	2
214H030A44	6	6	0	22	WATERPROOFING IN WET FLOOR AREAS	207JAN88	26JAN88	247JAN88	30JAN88	3
214H029A44	6	6	0	23	WATERPROOFING IN WET FLOOR AREAS	237JAN88	29JAN88	267JAN88	1FEB88	3
214H028A44	6	6	0	24	WATERPROOFING IN WET FLOOR AREAS	27JAN88	2FEB88	307JAN88	4FEB88	2
215H027A44	6	6	0	25	WATERPROOFING IN WET FLOOR AREAS	27JAN88	2FEB88	1FEB88	7FEB88	4
215H026A44	6	6	0	26	WATERPROOFING IN WET FLOOR AREAS	1FEB88	7FEB88	3FEB88	9FEB88	2
215H025A44	6	6	0	27	WATERPROOFING IN WET FLOOR AREAS	3FEB88	9FEB88	7FEB88	13FEB88	3
215H024A44	6	6	0	28	WATERPROOFING IN WET FLOOR AREAS	6FEB88	11FEB88	9FEB88	15FEB88	3
215H023A44	6	6	0	29	WATERPROOFING IN WET FLOOR AREAS	10FEB88	16FEB88	13FEB88	18FEB88	2
215H022A44	6	6	0	30	WATERPROOFING IN WET FLOOR AREAS	15FEB88	21FEB88	17FEB88	23FEB88	4
216H021A44	6	6	0	31	WATERPROOFING IN WET FLOOR AREAS	17FEB88	23FEB88	21FEB88	28FEB88	3
216H020A44	6	6	0	32	WATERPROOFING IN WET FLOOR AREAS	20FEB88	27FEB88	23FEB88	1MAR88	3
216H019A44	6	6	0	33	WATERPROOFING IN WET FLOOR AREAS	24FEB88	2MAR88	28FEB88	5MAR88	2
216H018A44	6	6	0	34	WATERPROOFING IN WET FLOOR AREAS	24FEB88	2MAR88	1MAR88	7MAR88	4
217H017A44	6	6	0	35	WATERPROOFING IN WET FLOOR AREAS	1MAR88	7MAR88	3MAR88	9MAR88	2
217H016A44	6	6	0	36	WATERPROOFING IN WET FLOOR AREAS	3MAR88	9MAR88	7MAR88	13MAR88	3
218H015A44	6	6	0	37	WATERPROOFING IN WET FLOOR AREAS	6MAR88	12MAR88	9MAR88	15MAR88	3
218H014A44	6	6	0	38	WATERPROOFING IN WET FLOOR AREAS	10MAR88	16MAR88	13MAR88	19MAR88	2
218H013A44	6	6	0	39	WATERPROOFING IN WET FLOOR AREAS	10MAR88	16MAR88	15MAR88	21MAR88	4
219H012A44	6	6	0	40	WATERPROOFING IN WET FLOOR AREAS	15MAR88	21MAR88	17MAR88	23MAR88	2
219H011A44	6	6	0	41	WATERPROOFING IN WET FLOOR AREAS	17MAR88	23MAR88	21MAR88	27MAR88	3
220H009A44	6	6	0	42	WATERPROOFING IN WET FLOOR AREAS	20MAR88	26MAR88	23MAR88	30MAR88	3
220H008A44	6	6	0	43	WATERPROOFING IN WET FLOOR AREAS	20MAR88	26MAR88	27MAR88	3APR88	2
220H007A44	6	6	0	44	WATERPROOFING IN WET FLOOR AREAS	24MAR88	31MAR88	30MAR88	5APR88	4
220H006A44	6	6	0	45	WATERPROOFING IN WET FLOOR AREAS	30MAR88	5APR88	2APR88	7APR88	2
220H005A44	6	6	0	46	WATERPROOFING IN WET FLOOR AREAS	2APR88	7APR88	5APR88	11APR88	3
220H004A44	6	6	0	47	WATERPROOFING IN WET FLOOR AREAS	4APR88	10APR88	7APR88	13APR88	3
221H003A44	6	6	0	48	WATERPROOFING IN WET FLOOR AREAS	9APR88	14APR88	12APR88	18APR88	3
221H002A44	6	6	0	49	WATERPROOFING IN WET FLOOR AREAS	9APR88	14APR88	16APR88	21APR88	6
221H001A44	6	6	0	51	WATERPROOFING IN WET FLOOR AREAS	13APR88	19APR88	16APR88	21APR88	2
211H044A45	2	2	0	01	ROOF EMBEDDED DRAINAGE PIPES	21NOV87	22NOV87	7DEC87	8DEC87	14
211H043A45	2	2	0	02	ROOF EMBEDDED DRAINAGE PIPES	23NOV87	24NOV87	9DEC87	10DEC87	14
211H042A45	2	2	0	03	ROOF EMBEDDED DRAINAGE PIPES	25NOV87	26NOV87	12DEC87	13DEC87	14
213H035A45	2	2	0	04	ROOF EMBEDDED DRAINAGE PIPES	2DEC87	3DEC87	15DEC87	16DEC87	11
213H036A45	2	2	0	05	ROOF EMBEDDED DRAINAGE PIPES	5DEC87	6DEC87	19DEC87	20DEC87	12
213H037A45	2	2	0	06	ROOF EMBEDDED DRAINAGE PIPES	7DEC87	8DEC87	21DEC87	22DEC87	12
213H032A45	2	2	0	07	ROOF EMBEDDED DRAINAGE PIPES	9DEC87	10DEC87	23DEC87	24DEC87	12
213H033A45	2	2	0	08	ROOF EMBEDDED DRAINAGE PIPES	14DEC87	15DEC87	27DEC87	28DEC87	11
213H034A45	2	2	0	09	ROOF EMBEDDED DRAINAGE PIPES	16DEC87	17DEC87	30DEC87	27JAN88	12
323H185A45	2	2	0	10	ROOF EMBEDDED DRAINAGE PIPES	19DEC87	20DEC87	31JAN88	47JAN88	12
323H186A45	2	2	0	11	ROOF EMBEDDED DRAINAGE PIPES	22DEC87	22DEC87	5JAN88	67JAN88	12
323H187A45	2	2	0	12	ROOF EMBEDDED DRAINAGE PIPES	24DEC87	27DEC87	9JAN88	107JAN88	11
323H188A45	2	2	0	13	ROOF EMBEDDED DRAINAGE PIPES	28DEC87	29DEC87	12JAN88	137JAN88	12
323H189A45	2	2	0	14	ROOF EMBEDDED DRAINAGE PIPES	30DEC87	31JAN88	147JAN88	167JAN88	12
323H190A45	2	2	0	15	ROOF EMBEDDED DRAINAGE PIPES	31JAN88	47JAN88	177JAN88	187JAN88	12
323H174A45	2	2	0	16	ROOF EMBEDDED DRAINAGE PIPES	7JAN88	9JAN88	20JAN88	217JAN88	11
323H175A45	2	2	0	17	ROOF EMBEDDED DRAINAGE PIPES	10JAN88	11JAN88	24JAN88	257JAN88	12
320H176A45	2	2	0	18	ROOF EMBEDDED DRAINAGE PIPES	12JAN88	13JAN88	267JAN88	277JAN88	12
320H177A45	2	2	0	19	ROOF EMBEDDED DRAINAGE PIPES	14JAN88	16JAN88	287JAN88	307JAN88	12
320H178A45	2	2	0	20	ROOF EMBEDDED DRAINAGE PIPES	21JAN88	20JAN88	1FEB88	2FEB88	12
214H031A45	2	2	0	21	ROOF EMBEDDED DRAINAGE PIPES	21JAN88	23JAN88	4FEB88	6FEB88	12
214H030A45	2	2	0	22	ROOF EMBEDDED DRAINAGE PIPES	24JAN88	25JAN88	7FEB88	8FEB88	12
214H029A45	2	2	0	23	ROOF EMBEDDED DRAINAGE PIPES	26JAN88	27JAN88	9FEB88	10FEB88	12
214H028A45	2	2	0	24	ROOF EMBEDDED DRAINAGE PIPES	31JAN88	1FEB88	13FEB88	14FEB88	11
215H027A45	2	2	0	25	ROOF EMBEDDED DRAINAGE PIPES	2FEB88	3FEB88	16FEB88	17FEB88	12
215H026A45	2	2	0	26	ROOF EMBEDDED DRAINAGE PIPES	4FEB88	6FEB88	18FEB88	20FEB88	12
215H025A45	2	2	0	27	ROOF EMBEDDED DRAINAGE PIPES	7FEB88	8FEB88	21FEB88	22FEB88	12
215H024A45	2	2	0	28	ROOF EMBEDDED DRAINAGE PIPES	11FEB88	13FEB88	24FEB88	27FEB88	11
215H023A45	2	2	0	29	ROOF EMBEDDED DRAINAGE PIPES	14FEB88	15FEB88	29FEB88	1MAR88	12
215H022A45	2	2	0	30	ROOF EMBEDDED DRAINAGE PIPES	16FEB88	17FEB88	2MAR88	3MAR88	12
216H021A45	2	2	0	31	ROOF EMBEDDED DRAINAGE PIPES	18FEB88	20FEB88	5MAR88	6MAR88	12
216H020A45	2	2	0	32	ROOF EMBEDDED DRAINAGE PIPES	23FEB88	24FEB88	8MAR88	9MAR88	11
216H019A45	2	2	0	33	ROOF EMBEDDED DRAINAGE PIPES	27FEB88	28FEB88	12MAR88	13MAR88	12
216H018A45	2	2	0	34	ROOF EMBEDDED DRAINAGE PIPES	29FEB88	1MAR88	14MAR88	15MAR88	12
217H017A45	2	2	0	35	ROOF EMBEDDED DRAINAGE PIPES	2MAR88	3MAR88	16MAR88	17MAR88	12
217H016A45	2	2	0	36	ROOF EMBEDDED DRAINAGE PIPES	7MAR88	8MAR88	20MAR88	21MAR88	11
218H015A45	2	2	0	37	ROOF EMBEDDED DRAINAGE PIPES	9MAR88	10MAR88	23MAR88	24MAR88	12
218H014A45	2	2	0	38	ROOF EMBEDDED DRAINAGE PIPES	12MAR88	13MAR88	26MAR88	27MAR88	12
218H013A45	2	2	0	39	ROOF EMBEDDED DRAINAGE PIPES	14MAR88	15MAR88	29MAR88	30MAR88	12
219H012A45	2	2	0	40	ROOF EMBEDDED DRAINAGE PIPES	19MAR88	20MAR88	2APR88	3APR88	11
219H011A45	2	2	0	41	ROOF EMBEDDED DRAINAGE PIPES	21MAR88	22MAR88	5APR88	6APR88	12
219H010A45	2	2	0	42	ROOF EMBEDDED DRAINAGE PIPES	23MAR88	24MAR88	7APR88	9APR88	12
220H009A45	2	2	0	43	ROOF EMBEDDED DRAINAGE PIPES	26MAR88	27MAR88	10APR88	11APR88	12
220H008A45	2	2	0	44	ROOF EMBEDDED DRAINAGE PIPES	31MAR88	2APR88	13APR88	14APR88	11
220H007A45	2	2	0	45	ROOF EMBEDDED DRAINAGE PIPES	3APR88	4APR88	17APR88	18APR88	12
220H006A45	2	2	0	46	ROOF EMBEDDED DRAINAGE PIPES	5APR88	6APR88	19APR88	20APR88	12
220H005A45	2	2	0	47	ROOF EMBEDDED DRAINAGE PIPES	7APR88	9APR88	21APR88	23APR88	12
220H004A45	2	2	0	48	ROOF EMBEDDED DRAINAGE PIPES	12APR88	13APR88	25APR88	26APR88	11

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
221H003A45	2	2	0	49	ROOF EMBEDDED DRAINAGE PIPES	14APR88	16APR88	28APR88	30APR88	12
221H002A45	2	2	0	50	ROOF EMBEDDED DRAINAGE PIPES	17APR88	18APR88	1MAY88	2MAY88	12
221H001A45	2	2	0	51	ROOF EMBEDDED DRAINAGE PIPES	19APR88	20APR88	3MAY88	4MAY88	12
211H044A46	7	7	0	01	BOUNDARY WALL REIN. CONC. COLUMNS	23NOV87	30NOV87	20DEC87	27DEC87	23
211H043A46	7	7	0	02	BOUNDARY WALL REIN. CONC. COLUMNS	23NOV87	30NOV87	22DEC87	29DEC87	25
211H042A46	7	7	0	03	BOUNDARY WALL REIN. CONC. COLUMNS	23NOV87	30NOV87	24DEC87	31JAN88	27
213H035A46	7	7	0	04	BOUNDARY WALL REIN. CONC. COLUMNS	5DEC87	12DEC87	27DEC87	4JAN88	19
213H036A46	7	7	0	05	BOUNDARY WALL REIN. CONC. COLUMNS	5DEC87	12DEC87	29DEC87	6JAN88	21
213H037A46	7	7	0	06	BOUNDARY WALL REIN. CONC. COLUMNS	5DEC87	12DEC87	30DEC87	7JAN88	22
213H032A46	7	7	0	07	BOUNDARY WALL REIN. CONC. COLUMNS	9DEC87	16DEC87	3JAN88	10JAN88	20
213H033A46	7	7	0	08	BOUNDARY WALL REIN. CONC. COLUMNS	13DEC87	20DEC87	5JAN88	12JAN88	19
213H034A46	7	7	0	09	BOUNDARY WALL REIN. CONC. COLUMNS	15DEC87	22DEC87	7JAN88	14JAN88	19
323H185A46	7	7	0	10	BOUNDARY WALL REIN. CONC. COLUMNS	17DEC87	24DEC87	10JAN88	17JAN88	19
323H186A46	7	7	0	11	BOUNDARY WALL REIN. CONC. COLUMNS	20DEC87	27DEC87	13JAN88	20JAN88	18
323H187A46	7	7	0	12	BOUNDARY WALL REIN. CONC. COLUMNS	21DEC87	28DEC87	13JAN88	20JAN88	19
322H188A46	7	7	0	13	BOUNDARY WALL REIN. CONC. COLUMNS	23DEC87	30DEC87	16JAN88	23JAN88	19
322H189A46	7	7	0	14	BOUNDARY WALL REIN. CONC. COLUMNS	26DEC87	3JAN88	18JAN88	25JAN88	19
322H190A46	7	7	0	15	BOUNDARY WALL REIN. CONC. COLUMNS	28DEC87	5JAN88	20JAN88	27JAN88	19
321H174A46	7	7	0	16	BOUNDARY WALL REIN. CONC. COLUMNS	30DEC87	7JAN88	21JAN88	28JAN88	18
321H175A46	7	7	0	17	BOUNDARY WALL REIN. CONC. COLUMNS	3JAN88	10JAN88	24JAN88	31JAN88	18
320H176A46	7	7	0	18	BOUNDARY WALL REIN. CONC. COLUMNS	5JAN88	12JAN88	26JAN88	2FEB88	18
320H177A46	7	7	0	19	BOUNDARY WALL REIN. CONC. COLUMNS	6JAN88	13JAN88	28JAN88	4FEB88	19
320H178A46	7	7	0	20	BOUNDARY WALL REIN. CONC. COLUMNS	9JAN88	16JAN88	31JAN88	7FEB88	19
214H031A46	7	7	0	21	BOUNDARY WALL REIN. CONC. COLUMNS	11JAN88	18JAN88	1FEB88	8FEB88	18
214H030A46	7	7	0	22	BOUNDARY WALL REIN. CONC. COLUMNS	13JAN88	20JAN88	3FEB88	10FEB88	18
214H029A46	7	7	0	23	BOUNDARY WALL REIN. CONC. COLUMNS	16JAN88	23JAN88	6FEB88	13FEB88	18
214H028A46	7	7	0	24	BOUNDARY WALL REIN. CONC. COLUMNS	18JAN88	25JAN88	8FEB88	15FEB88	18
215H027A46	7	7	0	25	BOUNDARY WALL REIN. CONC. COLUMNS	20JAN88	27JAN88	10FEB88	17FEB88	18
215H026A46	7	7	0	26	BOUNDARY WALL REIN. CONC. COLUMNS	21JAN88	28JAN88	11FEB88	18FEB88	18
215H025A46	7	7	0	27	BOUNDARY WALL REIN. CONC. COLUMNS	24JAN88	31JAN88	14FEB88	21FEB88	18
215H024A46	7	7	0	28	BOUNDARY WALL REIN. CONC. COLUMNS	26JAN88	2FEB88	16FEB88	23FEB88	18
215H023A46	7	7	0	29	BOUNDARY WALL REIN. CONC. COLUMNS	28JAN88	4FEB88	18FEB88	25FEB88	18
215H022A46	7	7	0	30	BOUNDARY WALL REIN. CONC. COLUMNS	31JAN88	7FEB88	21FEB88	29FEB88	18
216H021A46	7	7	0	31	BOUNDARY WALL REIN. CONC. COLUMNS	2FEB88	9FEB88	22FEB88	1MAR88	17
216H020A46	7	7	0	32	BOUNDARY WALL REIN. CONC. COLUMNS	4FEB88	11FEB88	24FEB88	3MAR88	17
216H019A46	7	7	0	33	BOUNDARY WALL REIN. CONC. COLUMNS	6FEB88	13FEB88	26FEB88	6MAR88	18
216H018A46	7	7	0	34	BOUNDARY WALL REIN. CONC. COLUMNS	8FEB88	15FEB88	1MAR88	8MAR88	18
217H017A46	7	7	0	35	BOUNDARY WALL REIN. CONC. COLUMNS	10FEB88	17FEB88	3MAR88	10MAR88	18
217H016A46	7	7	0	36	BOUNDARY WALL REIN. CONC. COLUMNS	13FEB88	20FEB88	5MAR88	12MAR88	17
218H015A46	7	7	0	37	BOUNDARY WALL REIN. CONC. COLUMNS	15FEB88	22FEB88	7MAR88	14MAR88	17
218H014A46	7	7	0	38	BOUNDARY WALL REIN. CONC. COLUMNS	17FEB88	24FEB88	9MAR88	16MAR88	17
218H013A46	7	7	0	39	BOUNDARY WALL REIN. CONC. COLUMNS	20FEB88	28FEB88	12MAR88	19MAR88	17
219H012A46	7	7	0	40	BOUNDARY WALL REIN. CONC. COLUMNS	21FEB88	29FEB88	14MAR88	21MAR88	18
219H011A46	7	7	0	41	BOUNDARY WALL REIN. CONC. COLUMNS	23FEB88	2MAR88	15MAR88	22MAR88	17
219H010A46	7	7	0	42	BOUNDARY WALL REIN. CONC. COLUMNS	27FEB88	5MAR88	17MAR88	24MAR88	17
220H009A46	7	7	0	43	BOUNDARY WALL REIN. CONC. COLUMNS	29FEB88	7MAR88	20MAR88	27MAR88	17
220H008A46	7	7	0	44	BOUNDARY WALL REIN. CONC. COLUMNS	2MAR88	9MAR88	22MAR88	30MAR88	17
220H007A46	7	7	0	45	BOUNDARY WALL REIN. CONC. COLUMNS	5MAR88	12MAR88	24MAR88	2APR88	16
220H006A46	7	7	0	46	BOUNDARY WALL REIN. CONC. COLUMNS	7MAR88	14MAR88	26MAR88	3APR88	16
220H005A46	7	7	0	47	BOUNDARY WALL REIN. CONC. COLUMNS	8MAR88	15MAR88	29MAR88	5APR88	17
220H004A46	7	7	0	48	BOUNDARY WALL REIN. CONC. COLUMNS	10MAR88	17MAR88	31MAR88	7APR88	17
221H003A46	7	7	0	49	BOUNDARY WALL REIN. CONC. COLUMNS	13MAR88	20MAR88	3APR88	10APR88	17
221H002A46	7	7	0	50	BOUNDARY WALL REIN. CONC. COLUMNS	15MAR88	22MAR88	5APR88	12APR88	17
221H001A46	7	7	0	51	BOUNDARY WALL REIN. CONC. COLUMNS	17MAR88	24MAR88	6APR88	13APR88	16
211H044A47	3	3	0	01	PRECAST UNITS OF BOUNDARY WALL	23NOV87	25NOV87	6JAN88	9JAN88	37
211H043A47	3	3	0	02	PRECAST UNITS OF BOUNDARY WALL	23NOV87	25NOV87	10JAN88	12JAN88	40
211H042A47	3	3	0	03	PRECAST UNITS OF BOUNDARY WALL	26NOV87	29NOV87	11JAN88	13JAN88	38
213H035A47	3	3	0	04	PRECAST UNITS OF BOUNDARY WALL	5DEC87	7DEC87	13JAN88	16JAN88	35
213H036A47	3	3	0	05	PRECAST UNITS OF BOUNDARY WALL	5DEC87	7DEC87	16JAN88	18JAN88	35
213H037A47	3	3	0	06	PRECAST UNITS OF BOUNDARY WALL	8DEC87	10DEC87	17JAN88	19JAN88	35
213H032A47	3	3	0	07	PRECAST UNITS OF BOUNDARY WALL	9DEC87	12DEC87	20JAN88	23JAN88	35
213H033A47	3	3	0	08	PRECAST UNITS OF BOUNDARY WALL	13DEC87	15DEC87	21JAN88	24JAN88	33
213H034A47	3	3	0	09	PRECAST UNITS OF BOUNDARY WALL	15DEC87	17DEC87	24JAN88	26JAN88	33
223H185A47	3	3	0	10	PRECAST UNITS OF BOUNDARY WALL	17DEC87	20DEC87	26JAN88	28JAN88	33
223H186A47	3	3	0	11	PRECAST UNITS OF BOUNDARY WALL	20DEC87	22DEC87	27JAN88	30JAN88	32
223H187A47	3	3	0	12	PRECAST UNITS OF BOUNDARY WALL	21DEC87	23DEC87	31JAN88	2FEB88	34
222H188A47	3	3	0	13	PRECAST UNITS OF BOUNDARY WALL	23DEC87	26DEC87	1FEB88	3FEB88	33
222H189A47	3	3	0	14	PRECAST UNITS OF BOUNDARY WALL	26DEC87	28DEC87	3FEB88	6FEB88	33
222H190A47	3	3	0	15	PRECAST UNITS OF BOUNDARY WALL	28DEC87	30DEC87	6FEB88	8FEB88	33
221H174A47	3	3	0	16	PRECAST UNITS OF BOUNDARY WALL	30DEC87	3JAN88	7FEB88	9FEB88	32
221H175A47	3	3	0	17	PRECAST UNITS OF BOUNDARY WALL	3JAN88	5JAN88	10FEB88	13FEB88	33
220H176A47	3	3	0	18	PRECAST UNITS OF BOUNDARY WALL	5JAN88	7JAN88	11FEB88	14FEB88	32
220H177A47	3	3	0	19	PRECAST UNITS OF BOUNDARY WALL	6JAN88	9JAN88	14FEB88	16FEB88	33
220H178A47	3	3	0	20	PRECAST UNITS OF BOUNDARY WALL	9JAN88	11JAN88	16FEB88	18FEB88	33
214H031A47	3	3	0	21	PRECAST UNITS OF BOUNDARY WALL	11JAN88	13JAN88	17FEB88	20FEB88	32
214H030A47	3	3	0	22	PRECAST UNITS OF BOUNDARY WALL	13JAN88	16JAN88	21FEB88	23FEB88	33
214H029A47	3	3	0	23	PRECAST UNITS OF BOUNDARY WALL	16JAN88	18JAN88	22FEB88	24FEB88	32
214H028A47	3	3	0	24	PRECAST UNITS OF BOUNDARY WALL	18JAN88	20JAN88	24FEB88	28FEB88	32
215H027A47	3	3	0	25	PRECAST UNITS OF BOUNDARY WALL	20JAN88	23JAN88	28FEB88	1MAR88	32
215H026A47	3	3	0	26	PRECAST UNITS OF BOUNDARY WALL	21JAN88	24JAN88	29FEB88	2MAR88	32
215H025A47	3	3	0	27	PRECAST UNITS OF BOUNDARY WALL	24JAN88	26JAN88	3MAR88	6MAR88	33
215H024A47	3	3	0	28	PRECAST UNITS OF BOUNDARY WALL	26JAN88	28JAN88	5MAR88	7MAR88	32
215H023A47	3	3	0	29	PRECAST UNITS OF BOUNDARY WALL	28JAN88	31JAN88	7MAR88	9MAR88	32
215H022A47	3	3	0	30	PRECAST UNITS OF BOUNDARY WALL	31JAN88	2FEB88	9MAR88	12MAR88	31
216H021A47	3	3	0	31	PRECAST UNITS OF BOUNDARY WALL	2FEB88	4FEB88	10MAR88	13MAR88	32
216H020A47	3	3	0	32	PRECAST UNITS OF BOUNDARY WALL	4FEB88	7FEB88	14MAR88	16MAR88	32
216H019A47	3	3	0	33	PRECAST UNITS OF BOUNDARY WALL	6FEB88	9FEB88	15MAR88	17MAR88	32
216H018A47	3	3	0	34	PRECAST UNITS OF BOUNDARY WALL	8FEB88	10FEB88	17MAR88	20MAR88	32
217H017A47	3	3	0	35	PRECAST UNITS OF BOUNDARY WALL	10FEB88	13FEB88	20MAR88	22MAR88	32
217H016A47	3	3	0	36	PRECAST UNITS OF BOUNDARY WALL	13FEB88	15FEB88	21MAR88	23MAR88	31
218H015A47	3	3	0	37	PRECAST UNITS OF BOUNDARY WALL	15FEB88	17FEB88	24MAR88	27MAR88	32
218H014A47	3	3	0	38	PRECAST UNITS OF BOUNDARY WALL	17FEB88	20FEB88	26MAR88	29MAR88	31
218H013A47	3	3	0	39	PRECAST UNITS OF BOUNDARY WALL	20FEB88	22FEB88	29MAR88	31MAR88	31
219H012A47	3	3	0	40	PRECAST UNITS OF BOUNDARY WALL	21FEB88	23FEB88	31MAR88	3APR88	32
219H011A47	3	3	0	41	PRECAST UNITS OF BOUNDARY WALL	23FEB88	27FEB88	2APR88	4APR88	31
219H010A47	3	3	0	42	PRECAST UNITS OF BOUNDARY WALL	27FEB88	29FEB88	5APR88	7APR88	32

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 11SEP95 RUN NO. 121

SEVEN SEAS. CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 25

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
220H009A47	3	3	0	43	PRECAST UNITS OF BOUNDARY WALL	29FEB88	2MAR88	6APR88	9APR88	31
220H008A47	3	3	0	44	PRECAST UNITS OF BOUNDARY WALL	2MAR88	5MAR88	9APR88	11APR88	31
220H007A47	3	3	0	45	PRECAST UNITS OF BOUNDARY WALL	5MAR88	7MAR88	11APR88	13APR88	31
220H006A47	3	3	0	46	PRECAST UNITS OF BOUNDARY WALL	7MAR88	9MAR88	12APR88	14APR88	30
220H005A47	3	3	0	47	PRECAST UNITS OF BOUNDARY WALL	8MAR88	10MAR88	16APR88	18APR88	32
220H004A47	3	3	0	48	PRECAST UNITS OF BOUNDARY WALL	10MAR88	13MAR88	17APR88	19APR88	31
221H003A47	3	3	0	49	PRECAST UNITS OF BOUNDARY WALL	13MAR88	15MAR88	19APR88	21APR88	31
221H002A47	3	3	0	50	PRECAST UNITS OF BOUNDARY WALL	15MAR88	17MAR88	21APR88	24APR88	31
221H001A47	3	3	0	51	PRECAST UNITS OF BOUNDARY WALL	17MAR88	20MAR88	23APR88	25APR88	30
211H044A48	6	6	0	01	YARD PLUMBING PRECAST MANHOLE	23NOV87	29NOV87	1DEC87	7DEC87	7
211H043A48	6	6	0	02	YARD PLUMBING PRECAST MANHOLE	23NOV87	29NOV87	3DEC87	9DEC87	9
211H042A48	6	6	0	03	YARD PLUMBING PRECAST MANHOLE	23NOV87	29NOV87	6DEC87	12DEC87	11
213H035A48	6	6	0	04	YARD PLUMBING PRECAST MANHOLE	5DEC87	10DEC87	8DEC87	14DEC87	3
213H036A48	6	6	0	05	YARD PLUMBING PRECAST MANHOLE	5DEC87	10DEC87	10DEC87	16DEC87	5
213H037A48	6	6	0	06	YARD PLUMBING PRECAST MANHOLE	5DEC87	10DEC87	12DEC87	17DEC87	6
213H032A48	6	6	0	07	YARD PLUMBING PRECAST MANHOLE	9DEC87	15DEC87	14DEC87	20DEC87	4
213H033A48	6	6	0	08	YARD PLUMBING PRECAST MANHOLE	13DEC87	19DEC87	16DEC87	22DEC87	3
213H034A48	6	6	0	09	YARD PLUMBING PRECAST MANHOLE	15DEC87	21DEC87	19DEC87	24DEC87	3
323H185A48	6	6	0	10	YARD PLUMBING PRECAST MANHOLE	17DEC87	23DEC87	21DEC87	27DEC87	3
323H186A48	6	6	0	11	YARD PLUMBING PRECAST MANHOLE	20DEC87	26DEC87	22DEC87	28DEC87	2
323H187A48	6	6	0	12	YARD PLUMBING PRECAST MANHOLE	21DEC87	27DEC87	24DEC87	30DEC87	3
322H188A48	6	6	0	13	YARD PLUMBING PRECAST MANHOLE	23DEC87	29DEC87	27DEC87	31DEC87	3
322H189A48	6	6	0	14	YARD PLUMBING PRECAST MANHOLE	26DEC87	29DEC87	29DEC87	5JAN88	3
322H190A48	6	6	0	15	YARD PLUMBING PRECAST MANHOLE	28DEC87	29DEC87	29DEC87	5JAN88	3
321H174A48	6	6	0	16	YARD PLUMBING PRECAST MANHOLE	30DEC87	6JAN88	3JAN88	9JAN88	2
320H175A48	6	6	0	17	YARD PLUMBING PRECAST MANHOLE	31JAN88	9JAN88	5JAN88	11JAN88	2
320H176A48	6	6	0	18	YARD PLUMBING PRECAST MANHOLE	5JAN88	11JAN88	7JAN88	13JAN88	2
320H177A48	6	6	0	19	YARD PLUMBING PRECAST MANHOLE	6JAN88	12JAN88	10JAN88	16JAN88	3
320H178A48	6	6	0	20	YARD PLUMBING PRECAST MANHOLE	9JAN88	14JAN88	12JAN88	18JAN88	1
214H031A48	6	6	0	21	YARD PLUMBING PRECAST MANHOLE	11JAN88	17JAN88	13JAN88	19JAN88	2
214H030A48	6	6	0	22	YARD PLUMBING PRECAST MANHOLE	13JAN88	19JAN88	16JAN88	21JAN88	2
214H029A48	6	6	0	23	YARD PLUMBING PRECAST MANHOLE	16JAN88	21JAN88	18JAN88	24JAN88	2
214H028A48	6	6	0	24	YARD PLUMBING PRECAST MANHOLE	18JAN88	24JAN88	20JAN88	26JAN88	2
215H027A48	6	6	0	25	YARD PLUMBING PRECAST MANHOLE	20JAN88	26JAN88	23JAN88	28JAN88	2
215H026A48	6	6	0	26	YARD PLUMBING PRECAST MANHOLE	21JAN88	27JAN88	24JAN88	30JAN88	2
215H025A48	6	6	0	27	YARD PLUMBING PRECAST MANHOLE	24JAN88	30JAN88	26JAN88	1FEB88	2
215H024A48	6	6	0	28	YARD PLUMBING PRECAST MANHOLE	26JAN88	1FEB88	28JAN88	3FEB88	2
215H023A48	6	6	0	29	YARD PLUMBING PRECAST MANHOLE	28JAN88	3FEB88	31JAN88	6FEB88	2
215H022A48	6	6	0	30	YARD PLUMBING PRECAST MANHOLE	31JAN88	6FEB88	2FEB88	8FEB88	2
216H021A48	6	6	0	31	YARD PLUMBING PRECAST MANHOLE	2FEB88	8FEB88	3FEB88	9FEB88	1
216H020A48	6	6	0	32	YARD PLUMBING PRECAST MANHOLE	4FEB88	10FEB88	6FEB88	11FEB88	1
216H019A48	6	6	0	33	YARD PLUMBING PRECAST MANHOLE	6FEB88	11FEB88	8FEB88	14FEB88	2
216H018A48	6	6	0	34	YARD PLUMBING PRECAST MANHOLE	8FEB88	14FEB88	10FEB88	16FEB88	2
217H017A48	6	6	0	35	YARD PLUMBING PRECAST MANHOLE	10FEB88	16FEB88	13FEB88	18FEB88	2
217H016A48	6	6	0	36	YARD PLUMBING PRECAST MANHOLE	13FEB88	18FEB88	14FEB88	20FEB88	1
218H015A48	6	6	0	37	YARD PLUMBING PRECAST MANHOLE	15FEB88	21FEB88	16FEB88	22FEB88	1
218H014A48	6	6	0	38	YARD PLUMBING PRECAST MANHOLE	17FEB88	23FEB88	18FEB88	24FEB88	1
218H013A48	6	6	0	39	YARD PLUMBING PRECAST MANHOLE	20FEB88	27FEB88	22FEB88	28FEB88	1
219H012A48	6	6	0	40	YARD PLUMBING PRECAST MANHOLE	21FEB88	28FEB88	23FEB88	1MAR88	2
219H011A48	6	6	0	41	YARD PLUMBING PRECAST MANHOLE	23FEB88	1MAR88	24FEB88	2MAR88	1
219H010A48	6	6	0	42	YARD PLUMBING PRECAST MANHOLE	27FEB88	3MAR88	28FEB88	5MAR88	1
220H009A48	6	6	0	43	YARD PLUMBING PRECAST MANHOLE	29FEB88	6MAR88	1MAR88	7MAR88	1
220H008A48	6	6	0	44	YARD PLUMBING PRECAST MANHOLE	2MAR88	8MAR88	3MAR88	9MAR88	1
220H007A48	6	6	0	45	YARD PLUMBING PRECAST MANHOLE	5MAR88	10MAR88	6MAR88	12MAR88	1
220H006A48	6	6	0	46	YARD PLUMBING PRECAST MANHOLE	7MAR88	13MAR88	7MAR88	13MAR88	0
220H005A48	6	6	0	47	YARD PLUMBING PRECAST MANHOLE	8MAR88	14MAR88	9MAR88	15MAR88	1
220H004A48	6	6	0	48	YARD PLUMBING PRECAST MANHOLE	10MAR88	16MAR88	12MAR88	17MAR88	1
221H003A48	6	6	0	49	YARD PLUMBING PRECAST MANHOLE	13MAR88	19MAR88	14MAR88	20MAR88	1
221H002A48	6	6	0	50	YARD PLUMBING PRECAST MANHOLE	15MAR88	21MAR88	16MAR88	22MAR88	1
221H001A48	6	6	0	51	YARD PLUMBING PRECAST MANHOLE	17MAR88	23MAR88	17MAR88	23MAR88	0
211H044A49	10	10	0	01	ROOF THERMAL INSULATION & TILING	23NOV87	3DEC87	9DEC87	20DEC87	14
211H043A49	10	10	0	02	ROOF THERMAL INSULATION & TILING	25NOV87	6DEC87	13DEC87	23DEC87	15
211H042A49	10	10	0	03	ROOF THERMAL INSULATION & TILING	28NOV87	8DEC87	14DEC87	24DEC87	14
213H035A49	10	10	0	04	ROOF THERMAL INSULATION & TILING	5DEC87	15DEC87	17DEC87	28DEC87	11
213H036A49	10	10	0	05	ROOF THERMAL INSULATION & TILING	7DEC87	17DEC87	21DEC87	29DEC87	12
213H037A49	10	10	0	06	ROOF THERMAL INSULATION & TILING	9DEC87	20DEC87	24DEC87	5JAN88	13
213H032A49	10	10	0	07	ROOF THERMAL INSULATION & TILING	12DEC87	22DEC87	26DEC87	6JAN88	12
213H033A49	10	10	0	08	ROOF THERMAL INSULATION & TILING	16DEC87	27DEC87	29DEC87	10JAN88	11
213H034A49	10	10	0	09	ROOF THERMAL INSULATION & TILING	19DEC87	29DEC87	31JAN88	13JAN88	12
323H185A49	10	10	0	10	ROOF THERMAL INSULATION & TILING	21DEC87	30JAN88	6JAN88	17JAN88	13
323H186A49	10	10	0	11	ROOF THERMAL INSULATION & TILING	23DEC87	4JAN88	7JAN88	18JAN88	12
323H187A49	10	10	0	12	ROOF THERMAL INSULATION & TILING	26DEC87	9JAN88	11JAN88	21JAN88	11
322H188A49	10	10	0	13	ROOF THERMAL INSULATION & TILING	30DEC87	11JAN88	14JAN88	25JAN88	12
322H189A49	10	10	0	14	ROOF THERMAL INSULATION & TILING	3JAN88	13JAN88	18JAN88	28JAN88	13
322H190A49	10	10	0	15	ROOF THERMAL INSULATION & TILING	5JAN88	16JAN88	19JAN88	30JAN88	12
321H174A49	10	10	0	16	ROOF THERMAL INSULATION & TILING	10JAN88	20JAN88	23JAN88	2FEB88	11
320H175A49	10	10	0	17	ROOF THERMAL INSULATION & TILING	12JAN88	23JAN88	26JAN88	6FEB88	12
320H176A49	10	10	0	18	ROOF THERMAL INSULATION & TILING	14JAN88	25JAN88	30JAN88	9FEB88	13
320H177A49	10	10	0	19	ROOF THERMAL INSULATION & TILING	17JAN88	27JAN88	31JAN88	10FEB88	12
320H178A49	10	10	0	20	ROOF THERMAL INSULATION & TILING	21JAN88	1FEB88	3FEB88	14FEB88	11
214H031A49	10	10	0	21	ROOF THERMAL INSULATION & TILING	24JAN88	3FEB88	7FEB88	17FEB88	12
214H030A49	10	10	0	22	ROOF THERMAL INSULATION & TILING	26JAN88	6FEB88	10FEB88	21FEB88	13
214H029A49	10	10	0	23	ROOF THERMAL INSULATION & TILING	28JAN88	8FEB88	11FEB88	22FEB88	12
214H028A49	10	10	0	24	ROOF THERMAL INSULATION & TILING	2FEB88	13FEB88	15FEB88	27FEB88	11
215H027A49	10	10	0	25	ROOF THERMAL INSULATION & TILING	4FEB88	15FEB88	18FEB88	1MAR88	12
215H026A49	10	10	0	26	ROOF THERMAL INSULATION & TILING	7FEB88	17FEB88	22FEB88	5MAR88	13
215H025A49	10	10	0	27	ROOF THERMAL INSULATION & TILING	9FEB88	20FEB88	23FEB88	6MAR88	12
215H024A49	10	10	0	28	ROOF THERMAL INSULATION & TILING	14FEB88	24FEB88	28FEB88	9MAR88	11
215H023A49	10	10	0	29	ROOF THERMAL INSULATION & TILING	16FEB88	28FEB88	2MAR88	13MAR88	12
215H022A49	10	10	0	30	ROOF THERMAL INSULATION & TILING	18FEB88	1MAR88	6MAR88	16MAR88	13
216H021A49	10	10	0	31	ROOF THERMAL INSULATION & TILING	21FEB88	3MAR88	7MAR88	17MAR88	12
216H020A49	10	10	0	32	ROOF THERMAL INSULATION & TILING	27FEB88	8MAR88	10MAR88	21MAR88	11
216H019A49	10	10	0	33	ROOF THERMAL INSULATION & TILING	29FEB88	10MAR88	14MAR88	24MAR88	12
216H018A49	10	10	0	34	ROOF THERMAL INSULATION & TILING	2MAR88	13MAR88	17MAR88	29MAR88	13
217H017A49	10	10	0	35	ROOF THERMAL INSULATION & TILING	5MAR88	15MAR88	19MAR88	30MAR88	12
217H016A49	10	10	0	36	ROOF THERMAL INSULATION & TILING	9MAR88	20MAR88	22MAR88	3APR88	11

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 26

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
218H015A49	10	10	0	37	ROOF THERMAL INSULATION & TILING	12MAR88	22MAR88	26MAR88	6APR88	12
218H014A49	10	10	0	38	ROOF THERMAL INSULATION & TILING	14MAR88	24MAR88	30MAR88	10APR88	13
218H013A49	10	10	0	39	ROOF THERMAL INSULATION & TILING	16MAR88	27MAR88	31MAR88	11APR88	12
219H012A49	10	10	0	40	ROOF THERMAL INSULATION & TILING	21MAR88	2APR88	4APR88	14APR88	11
219H011A49	10	10	0	41	ROOF THERMAL INSULATION & TILING	23MAR88	4APR88	7APR88	16APR88	12
219H010A49	10	10	0	42	ROOF THERMAL INSULATION & TILING	24MAR88	6APR88	11APR88	21APR88	13
220H009A49	10	10	0	43	ROOF THERMAL INSULATION & TILING	29MAR88	9APR88	12APR88	23APR88	12
220H008A49	10	10	0	44	ROOF THERMAL INSULATION & TILING	3APR88	13APR88	16APR88	26APR88	11
220H007A49	10	10	0	45	ROOF THERMAL INSULATION & TILING	5APR88	16APR88	19APR88	30APR88	12
220H006A49	10	10	0	46	ROOF THERMAL INSULATION & TILING	7APR88	18APR88	24APR88	4MAY88	14
220H005A49	10	10	0	47	ROOF THERMAL INSULATION & TILING	10APR88	20APR88	24APR88	4MAY88	12
220H004A49	10	10	0	48	ROOF THERMAL INSULATION & TILING	14APR88	25APR88	27APR88	8MAY88	11
221H003A49	10	10	0	49	ROOF THERMAL INSULATION & TILING	17APR88	27APR88	2MAY88	12MAY88	13
221H002A49	10	10	0	50	ROOF THERMAL INSULATION & TILING	19APR88	30APR88	5MAY88	16MAY88	14
221H001A49	10	10	0	51	ROOF THERMAL INSULATION & TILING	21APR88	2MAY88	5MAY88	16MAY88	12
221H044A50	5	5	0	01	STAIRS HANDRAILS	25NOV87	30NOV87	29DEC87	4JAN88	29
221H043A50	5	5	0	02	STAIRS HANDRAILS	25NOV87	30NOV87	5JAN88	10JAN88	34
221H042A50	5	5	0	03	STAIRS HANDRAILS	1DEC87	6DEC87	5JAN88	10JAN88	29
221H035A50	5	5	0	04	STAIRS HANDRAILS	7DEC87	12DEC87	11JAN88	16JAN88	29
221H036A50	5	5	0	05	STAIRS HANDRAILS	7DEC87	12DEC87	11JAN88	16JAN88	29
221H037A50	5	5	0	06	STAIRS HANDRAILS	13DEC87	17DEC87	17JAN88	21JAN88	29
221H032A50	5	5	0	07	STAIRS HANDRAILS	15DEC87	20DEC87	17JAN88	21JAN88	27
221H033A50	5	5	0	08	STAIRS HANDRAILS	19DEC87	23DEC87	23JAN88	27JAN88	29
221H034A50	5	5	0	09	STAIRS HANDRAILS	21DEC87	26DEC87	23JAN88	27JAN88	27
223H185A50	5	5	0	10	STAIRS HANDRAILS	24DEC87	29DEC87	28JAN88	27FEB88	29
223H186A50	5	5	0	11	STAIRS HANDRAILS	27DEC87	2JAN88	28JAN88	27FEB88	27
223H187A50	5	5	0	12	STAIRS HANDRAILS	30DEC87	5JAN88	3FEB88	8FEB88	29
222H188A50	5	5	0	13	STAIRS HANDRAILS	3JAN88	7JAN88	3FEB88	8FEB88	27
222H189A50	5	5	0	14	STAIRS HANDRAILS	6JAN88	11JAN88	9FEB88	14FEB88	29
222H190A50	5	5	0	15	STAIRS HANDRAILS	9JAN88	13JAN88	9FEB88	14FEB88	27
222H174A50	5	5	0	16	STAIRS HANDRAILS	12JAN88	17JAN88	15FEB88	20FEB88	29
222H175A50	5	5	0	17	STAIRS HANDRAILS	14JAN88	19JAN88	15FEB88	20FEB88	27
220H176A50	5	5	0	18	STAIRS HANDRAILS	18JAN88	23JAN88	21FEB88	27FEB88	29
220H177A50	5	5	0	19	STAIRS HANDRAILS	20JAN88	25JAN88	21FEB88	27FEB88	27
220H178A50	5	5	0	20	STAIRS HANDRAILS	24JAN88	28JAN88	28FEB88	3MAR88	29
224H031A50	5	5	0	21	STAIRS HANDRAILS	26JAN88	31JAN88	28FEB88	3MAR88	27
224H030A50	5	5	0	22	STAIRS HANDRAILS	30JAN88	3FEB88	5MAR88	9MAR88	29
224H029A50	5	5	0	23	STAIRS HANDRAILS	1FEB88	6FEB88	5MAR88	9MAR88	27
224H028A50	5	5	0	24	STAIRS HANDRAILS	4FEB88	9FEB88	10MAR88	15MAR88	29
225H027A50	5	5	0	25	STAIRS HANDRAILS	7FEB88	11FEB88	10MAR88	15MAR88	27
225H026A50	5	5	0	26	STAIRS HANDRAILS	10FEB88	15FEB88	16MAR88	21MAR88	29
225H025A50	5	5	0	27	STAIRS HANDRAILS	13FEB88	17FEB88	16MAR88	21MAR88	27
225H024A50	5	5	0	28	STAIRS HANDRAILS	16FEB88	21FEB88	22MAR88	27MAR88	29
225H023A50	5	5	0	29	STAIRS HANDRAILS	18FEB88	23FEB88	22MAR88	27MAR88	27
225H022A50	5	5	0	30	STAIRS HANDRAILS	22FEB88	28FEB88	29MAR88	3APR88	29
226H021A50	5	5	0	31	STAIRS HANDRAILS	24FEB88	1MAR88	29MAR88	3APR88	27
226H020A50	5	5	0	32	STAIRS HANDRAILS	29FEB88	5MAR88	4APR88	9APR88	29
226H019A50	5	5	0	33	STAIRS HANDRAILS	2MAR88	7MAR88	4APR88	9APR88	27
226H018A50	5	5	0	34	STAIRS HANDRAILS	6MAR88	10MAR88	10APR88	14APR88	29
227H017A50	5	5	0	35	STAIRS HANDRAILS	8MAR88	13MAR88	10APR88	14APR88	27
227H016A50	5	5	0	36	STAIRS HANDRAILS	12MAR88	16MAR88	16APR88	20APR88	29
228H015A50	5	5	0	37	STAIRS HANDRAILS	14MAR88	19MAR88	16APR88	20APR88	27
228H014A50	5	5	0	38	STAIRS HANDRAILS	17MAR88	22MAR88	21APR88	26APR88	29
228H013A50	5	5	0	39	STAIRS HANDRAILS	20MAR88	24MAR88	21APR88	26APR88	27
229H012A50	5	5	0	40	STAIRS HANDRAILS	23MAR88	29MAR88	27APR88	2MAY88	29
229H011A50	5	5	0	41	STAIRS HANDRAILS	26MAR88	31MAR88	27APR88	2MAY88	27
229H010A50	5	5	0	42	STAIRS HANDRAILS	30MAR88	4APR88	3MAY88	8MAY88	29
220H009A50	5	5	0	43	STAIRS HANDRAILS	2APR88	6APR88	3MAY88	8MAY88	27
220H008A50	5	5	0	44	STAIRS HANDRAILS	5APR88	10APR88	9MAY88	14MAY88	29
220H007A50	5	5	0	45	STAIRS HANDRAILS	7APR88	12APR88	9MAY88	14MAY88	27
220H006A50	5	5	0	46	STAIRS HANDRAILS	11APR88	16APR88	15MAY88	19MAY88	29
220H005A50	5	5	0	47	STAIRS HANDRAILS	13APR88	18APR88	15MAY88	19MAY88	27
220H004A50	5	5	0	48	STAIRS HANDRAILS	17APR88	21APR88	21MAY88	25MAY88	29
221H003A50	5	5	0	49	STAIRS HANDRAILS	19APR88	24APR88	21MAY88	25MAY88	27
221H002A50	5	5	0	50	STAIRS HANDRAILS	23APR88	27APR88	26MAY88	1JUN88	29
221H001A50	5	5	0	51	STAIRS HANDRAILS	25APR88	30APR88	26MAY88	1JUN88	27
221H044A51	6	6	0	01	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	25NOV87	1DEC87	2DEC87	8DEC87	6
221H043A51	6	6	0	02	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	25NOV87	1DEC87	6DEC87	12DEC87	9
221H042A51	6	6	0	03	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	26NOV87	2DEC87	9DEC87	15DEC87	11
223H035A51	6	6	0	04	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	7DEC87	13DEC87	13DEC87	19DEC87	5
223H036A51	6	6	0	05	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	7DEC87	13DEC87	16DEC87	22DEC87	8
223H037A51	6	6	0	06	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	8DEC87	14DEC87	16DEC87	22DEC87	7
223H032A51	6	6	0	07	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	15DEC87	21DEC87	20DEC87	26DEC87	4
223H033A51	6	6	0	08	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	16DEC87	22DEC87	23DEC87	29DEC87	6
223H034A51	6	6	0	09	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	17DEC87	23DEC87	27DEC87	3JAN88	8
223H185A51	6	6	0	10	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	23DEC87	29DEC87	30DEC87	6JAN88	6
223H186A51	6	6	0	11	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	24DEC87	30DEC87	30DEC87	6JAN88	5
223H187A51	6	6	0	12	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	26DEC87	2JAN88	4JAN88	10JAN88	7
222H188A51	6	6	0	13	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	2JAN88	7JAN88	7JAN88	13JAN88	5
222H189A51	6	6	0	14	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	3JAN88	9JAN88	11JAN88	17JAN88	7
222H190A51	6	6	0	15	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	4JAN88	10JAN88	14JAN88	20JAN88	9
222H174A51	6	6	0	16	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	10JAN88	16JAN88	14JAN88	20JAN88	4
222H175A51	6	6	0	17	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	11JAN88	17JAN88	18JAN88	24JAN88	6
220H176A51	6	6	0	18	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	12JAN88	18JAN88	21JAN88	27JAN88	8
220H177A51	6	6	0	19	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	18JAN88	24JAN88	25JAN88	31JAN88	6
220H178A51	6	6	0	20	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	19JAN88	25JAN88	28JAN88	3FEB88	8
224H031A51	6	6	0	21	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	20JAN88	26JAN88	28JAN88	3FEB88	7
224H030A51	6	6	0	22	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	26JAN88	1FEB88	1FEB88	7FEB88	5
224H029A51	6	6	0	23	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	27JAN88	2FEB88	4FEB88	10FEB88	7
224H028A51	6	6	0	24	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	28JAN88	3FEB88	8FEB88	14FEB88	9
225H027A51	6	6	0	25	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	3FEB88	9FEB88	11FEB88	17FEB88	7
225H026A51	6	6	0	26	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	4FEB88	10FEB88	11FEB88	17FEB88	6
225H025A51	6	6	0	27	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	6FEB88	11FEB88	15FEB88	21FEB88	8
225H024A51	6	6	0	28	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	11FEB88	17FEB88	18FEB88	24FEB88	6
225H023A51	6	6	0	29	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	13FEB88	18FEB88	22FEB88	29FEB88	8
225H022A51	6	6	0	30	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	14FEB88	20FEB88	27FEB88	3MAR88	10

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 27

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
216H021A51	6	6	0	31	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	20FEB88	27FEB88	27FEB88	3MAR88	5
216H020A51	6	6	0	32	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	21FEB88	28FEB88	28FEB88	7MAR88	7
216H019A51	6	6	0	33	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	22FEB88	29FEB88	29FEB88	9MAR88	9
216H018A51	6	6	0	34	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	29FEB88	6MAR88	6MAR88	14MAR88	7
217H017A51	6	6	0	35	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	1MAR88	7MAR88	7MAR88	17MAR88	9
217H016A51	6	6	0	36	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	2MAR88	8MAR88	8MAR88	17MAR88	8
218H015A51	6	6	0	37	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	8MAR88	14MAR88	14MAR88	21MAR88	6
218H014A51	6	6	0	38	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	9MAR88	15MAR88	15MAR88	24MAR88	8
218H013A51	6	6	0	39	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	10MAR88	16MAR88	16MAR88	29MAR88	10
219H012A51	6	6	0	40	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	16MAR88	22MAR88	22MAR88	2APR88	8
219H011A51	6	6	0	41	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	17MAR88	23MAR88	23MAR88	2APR88	7
219H010A51	6	6	0	42	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	19MAR88	24MAR88	24MAR88	5APR88	9
220H009A51	6	6	0	43	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	24MAR88	31MAR88	31MAR88	9APR88	7
220H008A51	6	6	0	44	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	26MAR88	2APR88	2APR88	12APR88	9
220H007A51	6	6	0	45	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	27MAR88	3APR88	3APR88	16APR88	11
220H006A51	6	6	0	46	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	3APR88	9APR88	9APR88	16APR88	6
220H005A51	6	6	0	47	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	4APR88	10APR88	10APR88	19APR88	8
220H004A51	6	6	0	48	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	5APR88	11APR88	11APR88	23APR88	10
221H003A51	6	6	0	49	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	11APR88	17APR88	17APR88	26APR88	8
221H002A51	6	6	0	50	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	12APR88	18APR88	18APR88	30APR88	10
221H001A51	6	6	0	51	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	13APR88	19APR88	19APR88	30APR88	9
211H040A52	7	7	0	01	CERAMIC TILES	26NOV87	3DEC87	3DEC87	8DEC87	4
211H043A52	7	7	0	02	CERAMIC TILES	26NOV87	3DEC87	5DEC87	12DEC87	7
211H042A52	7	7	0	03	CERAMIC TILES	8DEC87	8DEC87	7DEC87	14DEC87	5
213H035A52	7	7	0	04	CERAMIC TILES	8DEC87	15DEC87	10DEC87	17DEC87	2
213H036A52	7	7	0	05	CERAMIC TILES	8DEC87	15DEC87	13DEC87	20DEC87	4
213H037A52	7	7	0	06	CERAMIC TILES	13DEC87	20DEC87	15DEC87	22DEC87	2
213H032A52	7	7	0	07	CERAMIC TILES	16DEC87	23DEC87	19DEC87	26DEC87	2
213H033A52	7	7	0	08	CERAMIC TILES	17DEC87	24DEC87	21DEC87	28DEC87	3
213H034A52	7	7	0	09	CERAMIC TILES	22DEC87	29DEC87	24DEC87	31JAN88	2
223H185A52	7	7	0	10	CERAMIC TILES	24DEC87	2JAN88	27DEC87	4JAN88	2
223H186A52	7	7	0	11	CERAMIC TILES	27DEC87	4JAN88	29DEC87	6JAN88	2
223H187A52	7	7	0	12	CERAMIC TILES	30DEC87	7JAN88	3JAN88	10JAN88	2
222H188A52	7	7	0	13	CERAMIC TILES	3JAN88	10JAN88	5JAN88	12JAN88	2
222H189A52	7	7	0	14	CERAMIC TILES	6JAN88	13JAN88	9JAN88	16JAN88	2
222H190A52	7	7	0	15	CERAMIC TILES	9JAN88	16JAN88	11JAN88	18JAN88	2
221H174A52	7	7	0	16	CERAMIC TILES	11JAN88	18JAN88	13JAN88	20JAN88	2
221H175A52	7	7	0	17	CERAMIC TILES	14JAN88	21JAN88	17JAN88	24JAN88	2
220H176A52	7	7	0	18	CERAMIC TILES	17JAN88	24JAN88	19JAN88	26JAN88	2
220H177A52	7	7	0	19	CERAMIC TILES	20JAN88	27JAN88	23JAN88	30JAN88	2
220H178A52	7	7	0	20	CERAMIC TILES	23JAN88	30JAN88	25JAN88	1FEB88	2
214H031A52	7	7	0	21	CERAMIC TILES	25JAN88	1FEB88	27JAN88	3FEB88	2
214H030A52	7	7	0	22	CERAMIC TILES	28JAN88	4FEB88	31JAN88	7FEB88	2
214H029A52	7	7	0	23	CERAMIC TILES	31JAN88	7FEB88	2FEB88	9FEB88	2
214H028A52	7	7	0	24	CERAMIC TILES	3FEB88	10FEB88	6FEB88	13FEB88	2
215H027A52	7	7	0	25	CERAMIC TILES	6FEB88	13FEB88	8FEB88	15FEB88	2
215H026A52	7	7	0	26	CERAMIC TILES	8FEB88	15FEB88	10FEB88	17FEB88	2
215H025A52	7	7	0	27	CERAMIC TILES	11FEB88	18FEB88	14FEB88	21FEB88	2
215H024A52	7	7	0	28	CERAMIC TILES	14FEB88	21FEB88	16FEB88	23FEB88	2
215H023A52	7	7	0	29	CERAMIC TILES	17FEB88	24FEB88	20FEB88	28FEB88	2
215H022A52	7	7	0	30	CERAMIC TILES	20FEB88	28FEB88	22FEB88	1MAR88	2
216H021A52	7	7	0	31	CERAMIC TILES	22FEB88	1MAR88	24FEB88	3MAR88	2
216H020A52	7	7	0	32	CERAMIC TILES	27FEB88	5MAR88	29FEB88	7MAR88	2
216H019A52	7	7	0	33	CERAMIC TILES	29FEB88	7MAR88	2MAR88	9MAR88	2
216H018A52	7	7	0	34	CERAMIC TILES	3MAR88	10MAR88	6MAR88	13MAR88	2
217H017A52	7	7	0	35	CERAMIC TILES	6MAR88	13MAR88	8MAR88	15MAR88	2
217H016A52	7	7	0	36	CERAMIC TILES	8MAR88	15MAR88	10MAR88	17MAR88	2
218H015A52	7	7	0	37	CERAMIC TILES	12MAR88	19MAR88	14MAR88	21MAR88	2
218H014A52	7	7	0	38	CERAMIC TILES	14MAR88	21MAR88	16MAR88	23MAR88	2
218H013A52	7	7	0	39	CERAMIC TILES	17MAR88	24MAR88	20MAR88	27MAR88	2
219H012A52	7	7	0	40	CERAMIC TILES	20MAR88	27MAR88	22MAR88	30MAR88	2
219H011A52	7	7	0	41	CERAMIC TILES	22MAR88	30MAR88	24MAR88	2APR88	2
219H010A52	7	7	0	42	CERAMIC TILES	26MAR88	3APR88	29MAR88	5APR88	2
220H009A52	7	7	0	43	CERAMIC TILES	29MAR88	5APR88	31MAR88	7APR88	2
220H008A52	7	7	0	44	CERAMIC TILES	2APR88	9APR88	4APR88	11APR88	2
220H007A52	7	7	0	45	CERAMIC TILES	4APR88	11APR88	6APR88	13APR88	2
220H006A52	7	7	0	46	CERAMIC TILES	6APR88	13APR88	9APR88	16APR88	2
220H005A52	7	7	0	47	CERAMIC TILES	10APR88	17APR88	12APR88	19APR88	2
220H004A52	7	7	0	48	CERAMIC TILES	12APR88	19APR88	14APR88	21APR88	2
221H003A52	7	7	0	49	CERAMIC TILES	16APR88	23APR88	19APR88	26APR88	3
221H002A52	7	7	0	50	CERAMIC TILES	18APR88	25APR88	23APR88	30APR88	4
221H001A52	7	7	0	51	CERAMIC TILES	20APR88	27APR88	23APR88	30APR88	2
211H044A53	7	7	0	01	GYPSPUM BOARDS FALSE CEILING	26NOV87	3DEC87	1DEC87	8DEC87	4
211H043A53	7	7	0	02	GYPSPUM BOARDS FALSE CEILING	26NOV87	3DEC87	5DEC87	12DEC87	7
211H042A53	7	7	0	03	GYPSPUM BOARDS FALSE CEILING	1DEC87	8DEC87	7DEC87	14DEC87	5
213H035A53	7	7	0	04	GYPSPUM BOARDS FALSE CEILING	8DEC87	15DEC87	10DEC87	17DEC87	2
213H036A53	7	7	0	05	GYPSPUM BOARDS FALSE CEILING	8DEC87	15DEC87	13DEC87	20DEC87	4
213H037A53	7	7	0	06	GYPSPUM BOARDS FALSE CEILING	13DEC87	20DEC87	15DEC87	22DEC87	2
213H032A53	7	7	0	07	GYPSPUM BOARDS FALSE CEILING	16DEC87	23DEC87	19DEC87	26DEC87	2
213H033A53	7	7	0	08	GYPSPUM BOARDS FALSE CEILING	17DEC87	24DEC87	21DEC87	28DEC87	3
213H034A53	7	7	0	09	GYPSPUM BOARDS FALSE CEILING	22DEC87	29DEC87	24DEC87	31JAN88	2
223H185A53	7	7	0	10	GYPSPUM BOARDS FALSE CEILING	24DEC87	2JAN88	27DEC87	4JAN88	2
223H186A53	7	7	0	11	GYPSPUM BOARDS FALSE CEILING	27DEC87	4JAN88	29DEC87	6JAN88	2
223H187A53	7	7	0	12	GYPSPUM BOARDS FALSE CEILING	30DEC87	7JAN88	3JAN88	10JAN88	2
222H188A53	7	7	0	13	GYPSPUM BOARDS FALSE CEILING	3JAN88	10JAN88	5JAN88	12JAN88	2
222H189A53	7	7	0	14	GYPSPUM BOARDS FALSE CEILING	6JAN88	13JAN88	9JAN88	16JAN88	2
222H190A53	7	7	0	15	GYPSPUM BOARDS FALSE CEILING	9JAN88	16JAN88	11JAN88	18JAN88	2
221H174A53	7	7	0	16	GYPSPUM BOARDS FALSE CEILING	11JAN88	18JAN88	13JAN88	20JAN88	2
221H175A53	7	7	0	17	GYPSPUM BOARDS FALSE CEILING	14JAN88	21JAN88	17JAN88	24JAN88	2
220H176A53	7	7	0	18	GYPSPUM BOARDS FALSE CEILING	17JAN88	24JAN88	19JAN88	26JAN88	2
220H177A53	7	7	0	19	GYPSPUM BOARDS FALSE CEILING	20JAN88	27JAN88	23JAN88	30JAN88	2
220H178A53	7	7	0	20	GYPSPUM BOARDS FALSE CEILING	23JAN88	30JAN88	25JAN88	1FEB88	2
214H031A53	7	7	0	21	GYPSPUM BOARDS FALSE CEILING	25JAN88	1FEB88	27JAN88	3FEB88	2
214H030A53	7	7	0	22	GYPSPUM BOARDS FALSE CEILING	28JAN88	4FEB88	31JAN88	7FEB88	2
214H029A53	7	7	0	23	GYPSPUM BOARDS FALSE CEILING	31JAN88	7FEB88	2FEB88	9FEB88	2
214H028A53	7	7	0	24	GYPSPUM BOARDS FALSE CEILING	3FEB88	10FEB88	6FEB88	13FEB88	2

Figure 9.13 - Case 2, Baseline Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.

PRIMAVERA PROJECT PLANNER

JAHRA 1 HOUSING PROJECT common act

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 28

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
215H027A53	7	7	0	25	GYPSPUM BOARDS FALSE CEILING	6FEB88	13FEB88	8FEB88	15FEB88	2
215H026A53	7	7	0	26	GYPSPUM BOARDS FALSE CEILING	8FEB88	15FEB88	10FEB88	17FEB88	2
215H025A53	7	7	0	27	GYPSPUM BOARDS FALSE CEILING	11FEB88	18FEB88	14FEB88	21FEB88	2
215H024A53	7	7	0	28	GYPSPUM BOARDS FALSE CEILING	14FEB88	21FEB88	16FEB88	23FEB88	2
215H023A53	7	7	0	29	GYPSPUM BOARDS FALSE CEILING	17FEB88	24FEB88	20FEB88	28FEB88	2
215H022A53	7	7	0	30	GYPSPUM BOARDS FALSE CEILING	20FEB88	28FEB88	22FEB88	1MAR88	2
216H021A53	7	7	0	31	GYPSPUM BOARDS FALSE CEILING	22FEB88	1MAR88	24FEB88	3MAR88	2
216H020A53	7	7	0	32	GYPSPUM BOARDS FALSE CEILING	27FEB88	5MAR88	29FEB88	7MAR88	2
216H019A53	7	7	0	33	GYPSPUM BOARDS FALSE CEILING	29FEB88	7MAR88	2MAR88	9MAR88	2
216H018A53	7	7	0	34	GYPSPUM BOARDS FALSE CEILING	3MAR88	10MAR88	6MAR88	13MAR88	2
217H017A53	7	7	0	35	GYPSPUM BOARDS FALSE CEILING	6MAR88	13MAR88	9MAR88	15MAR88	2
217H016A53	7	7	0	36	GYPSPUM BOARDS FALSE CEILING	8MAR88	15MAR88	10MAR88	17MAR88	2
218H015A53	7	7	0	37	GYPSPUM BOARDS FALSE CEILING	12MAR88	19MAR88	14MAR88	21MAR88	2
218H014A53	7	7	0	38	GYPSPUM BOARDS FALSE CEILING	14MAR88	21MAR88	16MAR88	23MAR88	2
218H013A53	7	7	0	39	GYPSPUM BOARDS FALSE CEILING	17MAR88	24MAR88	20MAR88	27MAR88	2
219H012A53	7	7	0	40	GYPSPUM BOARDS FALSE CEILING	20MAR88	27MAR88	22MAR88	30MAR88	2
219H011A53	7	7	0	41	GYPSPUM BOARDS FALSE CEILING	22MAR88	30MAR88	24MAR88	31APR88	2
219H010A53	7	7	0	42	GYPSPUM BOARDS FALSE CEILING	26MAR88	3APR88	29MAR88	5APR88	2
220H009A53	7	7	0	43	GYPSPUM BOARDS FALSE CEILING	29MAR88	5APR88	31MAR88	7APR88	2
220H008A53	7	7	0	44	GYPSPUM BOARDS FALSE CEILING	2APR88	9APR88	4APR88	11APR88	2
220H007A53	7	7	0	45	GYPSPUM BOARDS FALSE CEILING	4APR88	11APR88	6APR88	13APR88	2
220H006A53	7	7	0	46	GYPSPUM BOARDS FALSE CEILING	6APR88	13APR88	9APR88	16APR88	2
220H005A53	7	7	0	47	GYPSPUM BOARDS FALSE CEILING	10APR88	17APR88	12APR88	19APR88	2
220H004A53	7	7	0	48	GYPSPUM BOARDS FALSE CEILING	12APR88	19APR88	14APR88	21APR88	2
221H003A53	7	7	0	49	GYPSPUM BOARDS FALSE CEILING	16APR88	23APR88	19APR88	26APR88	3
221H002A53	7	7	0	50	GYPSPUM BOARDS FALSE CEILING	18APR88	25APR88	23APR88	30APR88	4
221H001A53	7	7	0	51	GYPSPUM BOARDS FALSE CEILING	20APR88	27APR88	25APR88	30APR88	2
211H044A54	10	10	0	01	YARD PLUMBING PIPES	30NOV87	10DEC87	8DEC87	19DEC87	7
211H043A54	10	10	0	02	YARD PLUMBING PIPES	30NOV87	10DEC87	10DEC87	21DEC87	9
211H042A54	10	10	0	03	YARD PLUMBING PIPES	30NOV87	10DEC87	13DEC87	23DEC87	11
213H035A54	10	10	0	04	YARD PLUMBING PIPES	12DEC87	22DEC87	15DEC87	26DEC87	3
213H036A54	10	10	0	05	YARD PLUMBING PIPES	12DEC87	22DEC87	17DEC87	28DEC87	5
213H037A54	10	10	0	06	YARD PLUMBING PIPES	12DEC87	22DEC87	19DEC87	29DEC87	6
213H032A54	10	10	0	07	YARD PLUMBING PIPES	16DEC87	27DEC87	21DEC87	2JAN88	4
213H033A54	10	10	0	08	YARD PLUMBING PIPES	20DEC87	30DEC87	23DEC87	4JAN88	3
213H034A54	10	10	0	09	YARD PLUMBING PIPES	22DEC87	3JAN88	26DEC87	6JAN88	3
223H185A54	10	10	0	10	YARD PLUMBING PIPES	24DEC87	5JAN88	28DEC87	9JAN88	3
223H186A54	10	10	0	11	YARD PLUMBING PIPES	27DEC87	7JAN88	29DEC87	10JAN88	2
223H187A54	10	10	0	12	YARD PLUMBING PIPES	28DEC87	9JAN88	2JAN88	12JAN88	3
222H188A54	10	10	0	13	YARD PLUMBING PIPES	30DEC87	11JAN88	4JAN88	14JAN88	3
222H189A54	10	10	0	14	YARD PLUMBING PIPES	3JAN88	13JAN88	6JAN88	17JAN88	3
222H190A54	10	10	0	15	YARD PLUMBING PIPES	5JAN88	16JAN88	9JAN88	19JAN88	3
322H174A55	10	10	0	16	YARD PLUMBING PIPES	7JAN88	18JAN88	10JAN88	20JAN88	2
322H175A55	10	10	0	17	YARD PLUMBING PIPES	12JAN88	20JAN88	12JAN88	23JAN88	2
320H176A54	10	10	0	18	YARD PLUMBING PIPES	12JAN88	23JAN88	14JAN88	25JAN88	2
320H177A54	10	10	0	19	YARD PLUMBING PIPES	13JAN88	24JAN88	17JAN88	27JAN88	3
320H178A54	10	10	0	20	YARD PLUMBING PIPES	16JAN88	26JAN88	19JAN88	30JAN88	3
214H031A54	10	10	0	21	YARD PLUMBING PIPES	18JAN88	28JAN88	20JAN88	31JAN88	2
214H030A54	10	10	0	22	YARD PLUMBING PIPES	20JAN88	31JAN88	23JAN88	2FEB88	2
214H029A54	10	10	0	23	YARD PLUMBING PIPES	23JAN88	2FEB88	25JAN88	4FEB88	2
214H028A54	10	10	0	24	YARD PLUMBING PIPES	25JAN88	4FEB88	27JAN88	7FEB88	2
215H027A54	10	10	0	25	YARD PLUMBING PIPES	27JAN88	7FEB88	30JAN88	9FEB88	2
215H026A54	10	10	0	26	YARD PLUMBING PIPES	28JAN88	8FEB88	31JAN88	10FEB88	2
215H025A54	10	10	0	27	YARD PLUMBING PIPES	31JAN88	10FEB88	2FEB88	13FEB88	2
215H024A54	10	10	0	28	YARD PLUMBING PIPES	2FEB88	13FEB88	4FEB88	15FEB88	2
215H023A54	10	10	0	29	YARD PLUMBING PIPES	4FEB88	15FEB88	7FEB88	17FEB88	2
215H022A54	10	10	0	30	YARD PLUMBING PIPES	7FEB88	17FEB88	9FEB88	20FEB88	2
216H021A54	10	10	0	31	YARD PLUMBING PIPES	9FEB88	20FEB88	10FEB88	21FEB88	1
216H020A54	10	10	0	32	YARD PLUMBING PIPES	11FEB88	22FEB88	13FEB88	23FEB88	1
216H019A54	10	10	0	33	YARD PLUMBING PIPES	13FEB88	23FEB88	15FEB88	27FEB88	2
216H018A54	10	10	0	34	YARD PLUMBING PIPES	15FEB88	27FEB88	17FEB88	29FEB88	2
217H017A54	10	10	0	35	YARD PLUMBING PIPES	17FEB88	29FEB88	20FEB88	2MAR88	2
217H016A54	10	10	0	36	YARD PLUMBING PIPES	20FEB88	2MAR88	21FEB88	3MAR88	1
218H015A54	10	10	0	37	YARD PLUMBING PIPES	22FEB88	5MAR88	23FEB88	6MAR88	1
218H014A54	10	10	0	38	YARD PLUMBING PIPES	24FEB88	7MAR88	27FEB88	8MAR88	1
218H013A54	10	10	0	39	YARD PLUMBING PIPES	28FEB88	9MAR88	29FEB88	10MAR88	1
219H012A54	10	10	0	40	YARD PLUMBING PIPES	29FEB88	10MAR88	2MAR88	13MAR88	2
219H011A54	10	10	0	41	YARD PLUMBING PIPES	2MAR88	13MAR88	3MAR88	14MAR88	1
219H010A54	10	10	0	42	YARD PLUMBING PIPES	5MAR88	15MAR88	6MAR88	16MAR88	1
220H009A54	10	10	0	43	YARD PLUMBING PIPES	7MAR88	17MAR88	8MAR88	19MAR88	1
220H008A54	10	10	0	44	YARD PLUMBING PIPES	9MAR88	20MAR88	10MAR88	21MAR88	1
220H007A54	10	10	0	45	YARD PLUMBING PIPES	12MAR88	22MAR88	13MAR88	23MAR88	1
220H006A54	10	10	0	46	YARD PLUMBING PIPES	14MAR88	24MAR88	14MAR88	24MAR88	0
220H005A54	10	10	0	47	YARD PLUMBING PIPES	15MAR88	26MAR88	16MAR88	27MAR88	1
220H004A54	10	10	0	48	YARD PLUMBING PIPES	17MAR88	29MAR88	19MAR88	30MAR88	1
221H003A54	10	10	0	49	YARD PLUMBING PIPES	20MAR88	31MAR88	21MAR88	2APR88	1
221H002A54	10	10	0	50	YARD PLUMBING PIPES	22MAR88	3APR88	23MAR88	4APR88	1
221H001A54	10	10	0	51	YARD PLUMBING PIPES	24MAR88	5APR88	24MAR88	5APR88	0
211H044A55	12	12	0	01	PAINT PREPARATION (Primer & Putty Coats)	5DEC87	17DEC87	9DEC87	22DEC87	4
211H043A55	12	12	0	02	PAINT PREPARATION (Primer & Putty Coats)	5DEC87	17DEC87	13DEC87	26DEC87	7
211H042A55	12	12	0	03	PAINT PREPARATION (Primer & Putty Coats)	9DEC87	22DEC87	16DEC87	29DEC87	6
213H035A55	12	12	0	04	PAINT PREPARATION (Primer & Putty Coats)	16DEC87	29DEC87	20DEC87	3JAN88	6
213H036A55	12	12	0	05	PAINT PREPARATION (Primer & Putty Coats)	16DEC87	29DEC87	22DEC87	6JAN88	6
213H037A55	12	12	0	06	PAINT PREPARATION (Primer & Putty Coats)	21DEC87	4JAN88	23DEC87	7JAN88	2
213H032A55	12	12	0	07	PAINT PREPARATION (Primer & Putty Coats)	24DEC87	7JAN88	27DEC87	10JAN88	2
213H033A55	12	12	0	08	PAINT PREPARATION (Primer & Putty Coats)	26DEC87	9JAN88	30DEC87	13JAN88	3
213H034A55	12	12	0	09	PAINT PREPARATION (Primer & Putty Coats)	30DEC87	13JAN88	4JAN88	17JAN88	3
223H185A55	12	12	0	10	PAINT PREPARATION (Primer & Putty Coats)	3JAN88	16JAN88	7JAN88	20JAN88	4
323H186A55	12	12	0	11	PAINT PREPARATION (Primer & Putty Coats)	5JAN88	18JAN88	7JAN88	20JAN88	2
323H187A55	12	12	0	12	PAINT PREPARATION (Primer & Putty Coats)	9JAN88	21JAN88	11JAN88	24JAN88	2
322H188A55	12	12	0	13	PAINT PREPARATION (Primer & Putty Coats)	11JAN88	24JAN88	14JAN88	27JAN88	3
322H189A55	12	12	0	14	PAINT PREPARATION (Primer & Putty Coats)	14JAN88	27JAN88	18JAN88	31JAN88	3
322H190A55	12	12	0	15	PAINT PREPARATION (Primer & Putty Coats)	17JAN88	30JAN88	21JAN88	3FEB88	4
321H174A55	12	12	0	16	PAINT PREPARATION (Primer & Putty Coats)	19JAN88	1FEB88	21JAN88	3FEB88	2
321H175A55	12	12	0	17	PAINT PREPARATION (Primer & Putty Coats)	23JAN88	4FEB88	25JAN88	7FEB88	2
320H176A55	12	12	0	18	PAINT PREPARATION (Primer & Putty Coats)	25JAN88	7FEB88	28JAN88	10FEB88	3

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 29

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
320H177A55	12	12	0	19	PAINT PREPARATION (Primer & Putty Coats)	28JAN88	10FEB88	17FEB88	14FEB88	3
320H178A55	12	12	0	20	PAINT PREPARATION (Primer & Putty Coats)	31JAN88	13FEB88	4FEB88	17FEB88	4
214H031A55	12	12	0	21	PAINT PREPARATION (Primer & Putty Coats)	2FEB88	15FEB88	4FEB88	17FEB88	2
214H030A55	12	12	0	22	PAINT PREPARATION (Primer & Putty Coats)	6FEB88	18FEB88	8FEB88	21FEB88	2
214H029A55	12	12	0	23	PAINT PREPARATION (Primer & Putty Coats)	8FEB88	21FEB88	11FEB88	24FEB88	3
214H028A55	12	12	0	24	PAINT PREPARATION (Primer & Putty Coats)	11FEB88	24FEB88	15FEB88	29FEB88	3
215H027A55	12	12	0	25	PAINT PREPARATION (Primer & Putty Coats)	14FEB88	28FEB88	18FEB88	3MAR88	4
215H026A55	12	12	0	26	PAINT PREPARATION (Primer & Putty Coats)	16FEB88	1MAR88	18FEB88	3MAR88	2
215H025A55	12	12	0	27	PAINT PREPARATION (Primer & Putty Coats)	20FEB88	5MAR88	22FEB88	7MAR88	2
215H024A55	12	12	0	28	PAINT PREPARATION (Primer & Putty Coats)	22FEB88	7MAR88	27FEB88	10MAR88	3
215H023A55	12	12	0	29	PAINT PREPARATION (Primer & Putty Coats)	27FEB88	10MAR88	1MAR88	14MAR88	3
215H022A55	12	12	0	30	PAINT PREPARATION (Primer & Putty Coats)	29FEB88	13MAR88	5MAR88	17MAR88	4
216H021A55	12	12	0	31	PAINT PREPARATION (Primer & Putty Coats)	2MAR88	15MAR88	5MAR88	17MAR88	2
216H020A55	12	12	0	32	PAINT PREPARATION (Primer & Putty Coats)	6MAR88	19MAR88	9MAR88	21MAR88	2
216H019A55	12	12	0	33	PAINT PREPARATION (Primer & Putty Coats)	8MAR88	21MAR88	12MAR88	24MAR88	3
216H018A55	12	12	0	34	PAINT PREPARATION (Primer & Putty Coats)	12MAR88	24MAR88	15MAR88	29MAR88	3
217H017A55	12	12	0	35	PAINT PREPARATION (Primer & Putty Coats)	14MAR88	27MAR88	19MAR88	2APR88	4
217H016A55	12	12	0	36	PAINT PREPARATION (Primer & Putty Coats)	16MAR88	30MAR88	19MAR88	2APR88	2
218H015A55	12	12	0	37	PAINT PREPARATION (Primer & Putty Coats)	20MAR88	3APR88	22MAR88	5APR88	2
218H014A55	12	12	0	38	PAINT PREPARATION (Primer & Putty Coats)	22MAR88	5APR88	26MAR88	9APR88	3
218H013A55	12	12	0	39	PAINT PREPARATION (Primer & Putty Coats)	26MAR88	9APR88	30MAR88	12APR88	3
219H012A55	12	12	0	40	PAINT PREPARATION (Primer & Putty Coats)	29MAR88	11APR88	3APR88	16APR88	4
219H011A55	12	12	0	41	PAINT PREPARATION (Primer & Putty Coats)	31MAR88	13APR88	3APR88	16APR88	2
219H010A55	12	12	0	42	PAINT PREPARATION (Primer & Putty Coats)	4APR88	17APR88	6APR88	19APR88	2
220H009A55	12	12	0	43	PAINT PREPARATION (Primer & Putty Coats)	6APR88	19APR88	10APR88	23APR88	3
220H008A55	12	12	0	44	PAINT PREPARATION (Primer & Putty Coats)	10APR88	23APR88	13APR88	26APR88	3
220H007A55	12	12	0	45	PAINT PREPARATION (Primer & Putty Coats)	12APR88	25APR88	17APR88	30APR88	4
220H006A55	12	12	0	46	PAINT PREPARATION (Primer & Putty Coats)	14APR88	27APR88	17APR88	30APR88	2
220H005A55	12	12	0	47	PAINT PREPARATION (Primer & Putty Coats)	18APR88	1MAY88	20APR88	3MAY88	2
220H004A55	12	12	0	48	PAINT PREPARATION (Primer & Putty Coats)	20APR88	3MAY88	24APR88	7MAY88	3
221H003A55	12	12	0	49	PAINT PREPARATION (Primer & Putty Coats)	24APR88	7MAY88	27APR88	10MAY88	3
221H002A55	12	12	0	50	PAINT PREPARATION (Primer & Putty Coats)	26APR88	9MAY88	1MAY88	14MAY88	4
221H001A55	12	12	0	51	PAINT PREPARATION (Primer & Putty Coats)	28APR88	11MAY88	1MAY88	14MAY88	2
211H044A56	7	7	0	01	WATER TANK & EXPOSED ROOF PIPING	5DEC87	12DEC87	2JAN88	9JAN88	23
211H043A56	7	7	0	02	WATER TANK & EXPOSED ROOF PIPING	7DEC87	14DEC87	5JAN88	12JAN88	24
211H042A56	7	7	0	03	WATER TANK & EXPOSED ROOF PIPING	9DEC87	16DEC87	5JAN88	12JAN88	22
213H035A56	7	7	0	04	WATER TANK & EXPOSED ROOF PIPING	16DEC87	23DEC87	10JAN88	17JAN88	20
213H034A56	7	7	0	05	WATER TANK & EXPOSED ROOF PIPING	19DEC87	26DEC87	13JAN88	20JAN88	21
213H033A56	7	7	0	06	WATER TANK & EXPOSED ROOF PIPING	21DEC87	28DEC87	13JAN88	20JAN88	19
213H032A56	7	7	0	07	WATER TANK & EXPOSED ROOF PIPING	24DEC87	31DEC87	18JAN88	25JAN88	20
213H031A56	7	7	0	08	WATER TANK & EXPOSED ROOF PIPING	28DEC87	5JAN88	21JAN88	28JAN88	20
213H030A56	7	7	0	09	WATER TANK & EXPOSED ROOF PIPING	30DEC87	7JAN88	21JAN88	28JAN88	18
323H185A56	7	7	0	10	WATER TANK & EXPOSED ROOF PIPING	3JAN88	10JAN88	26JAN88	2FEB88	20
323H184A56	7	7	0	11	WATER TANK & EXPOSED ROOF PIPING	6JAN88	13JAN88	30JAN88	6FEB88	17
323H183A56	7	7	0	12	WATER TANK & EXPOSED ROOF PIPING	10JAN88	17JAN88	30JAN88	6FEB88	17
322H182A56	7	7	0	13	WATER TANK & EXPOSED ROOF PIPING	12JAN88	19JAN88	3FEB88	10FEB88	19
322H181A56	7	7	0	14	WATER TANK & EXPOSED ROOF PIPING	14JAN88	21JAN88	7FEB88	14FEB88	20
322H180A56	7	7	0	15	WATER TANK & EXPOSED ROOF PIPING	18JAN88	25JAN88	7FEB88	14FEB88	17
321H179A56	7	7	0	16	WATER TANK & EXPOSED ROOF PIPING	21JAN88	28JAN88	11FEB88	18FEB88	18
321H178A56	7	7	0	17	WATER TANK & EXPOSED ROOF PIPING	24JAN88	31JAN88	15FEB88	22FEB88	19
320H177A56	7	7	0	18	WATER TANK & EXPOSED ROOF PIPING	26JAN88	2FEB88	15FEB88	22FEB88	17
320H176A56	7	7	0	19	WATER TANK & EXPOSED ROOF PIPING	30JAN88	6FEB88	20FEB88	28FEB88	18
320H175A56	7	7	0	20	WATER TANK & EXPOSED ROOF PIPING	2FEB88	9FEB88	23FEB88	2MAR88	18
214H031A56	7	7	0	21	WATER TANK & EXPOSED ROOF PIPING	4FEB88	11FEB88	23FEB88	2MAR88	16
214H030A56	7	7	0	22	WATER TANK & EXPOSED ROOF PIPING	7FEB88	14FEB88	29FEB88	7MAR88	18
214H029A56	7	7	0	23	WATER TANK & EXPOSED ROOF PIPING	10FEB88	17FEB88	3MAR88	10MAR88	18
214H028A56	7	7	0	24	WATER TANK & EXPOSED ROOF PIPING	14FEB88	21FEB88	3MAR88	10MAR88	15
215H027A56	7	7	0	25	WATER TANK & EXPOSED ROOF PIPING	16FEB88	23FEB88	8MAR88	15MAR88	17
215H026A56	7	7	0	26	WATER TANK & EXPOSED ROOF PIPING	18FEB88	27FEB88	12MAR88	19MAR88	18
215H025A56	7	7	0	27	WATER TANK & EXPOSED ROOF PIPING	22FEB88	1MAR88	12MAR88	19MAR88	15
215H024A56	7	7	0	28	WATER TANK & EXPOSED ROOF PIPING	27FEB88	5MAR88	16MAR88	23MAR88	16
215H023A56	7	7	0	29	WATER TANK & EXPOSED ROOF PIPING	29FEB88	7MAR88	20MAR88	27MAR88	17
215H022A56	7	7	0	30	WATER TANK & EXPOSED ROOF PIPING	2MAR88	9MAR88	20MAR88	27MAR88	15
216H021A56	7	7	0	31	WATER TANK & EXPOSED ROOF PIPING	6MAR88	13MAR88	24MAR88	2APR88	16
216H020A56	7	7	0	32	WATER TANK & EXPOSED ROOF PIPING	9MAR88	16MAR88	29MAR88	5APR88	16
216H019A56	7	7	0	33	WATER TANK & EXPOSED ROOF PIPING	12MAR88	19MAR88	29MAR88	5APR88	14
216H018A56	7	7	0	34	WATER TANK & EXPOSED ROOF PIPING	14MAR88	21MAR88	3APR88	10APR88	16
217H017A56	7	7	0	35	WATER TANK & EXPOSED ROOF PIPING	17MAR88	24MAR88	6APR88	13APR88	16
217H016A56	7	7	0	36	WATER TANK & EXPOSED ROOF PIPING	21MAR88	29MAR88	6APR88	13APR88	13
218H015A56	7	7	0	37	WATER TANK & EXPOSED ROOF PIPING	23MAR88	31MAR88	11APR88	18APR88	15
218H014A56	7	7	0	38	WATER TANK & EXPOSED ROOF PIPING	26MAR88	3APR88	14APR88	21APR88	16
218H013A56	7	7	0	39	WATER TANK & EXPOSED ROOF PIPING	30MAR88	6APR88	14APR88	21APR88	13
219H012A56	7	7	0	40	WATER TANK & EXPOSED ROOF PIPING	3APR88	10APR88	19APR88	26APR88	14
219H011A56	7	7	0	41	WATER TANK & EXPOSED ROOF PIPING	5APR88	12APR88	23APR88	30APR88	15
219H010A56	7	7	0	42	WATER TANK & EXPOSED ROOF PIPING	7APR88	14APR88	23APR88	30APR88	13
220H009A56	7	7	0	43	WATER TANK & EXPOSED ROOF PIPING	11APR88	18APR88	27APR88	4MAY88	14
220H008A56	7	7	0	44	WATER TANK & EXPOSED ROOF PIPING	14APR88	21APR88	1MAY88	8MAY88	14
220H007A56	7	7	0	45	WATER TANK & EXPOSED ROOF PIPING	17APR88	24APR88	1MAY88	8MAY88	12
220H006A56	7	7	0	46	WATER TANK & EXPOSED ROOF PIPING	19APR88	26APR88	5MAY88	12MAY88	14
220H005A56	7	7	0	47	WATER TANK & EXPOSED ROOF PIPING	23APR88	30APR88	9MAY88	16MAY88	14
220H004A56	7	7	0	48	WATER TANK & EXPOSED ROOF PIPING	26APR88	3MAY88	9MAY88	16MAY88	11
221H003A56	7	7	0	49	WATER TANK & EXPOSED ROOF PIPING	28APR88	5MAY88	14MAY88	21MAY88	13
221H002A56	7	7	0	50	WATER TANK & EXPOSED ROOF PIPING	1MAY88	8MAY88	17MAY88	24MAY88	14
221H001A56	7	7	0	51	WATER TANK & EXPOSED ROOF PIPING	4MAY88	11MAY88	17MAY88	24MAY88	11
211H044A57	7	7	0	01	YARD ELECTRICAL PIPES & HANDHOLES	12DEC87	19DEC87	20DEC87	27DEC87	7
211H043A57	7	7	0	02	YARD ELECTRICAL PIPES & HANDHOLES	12DEC87	19DEC87	20DEC87	27DEC87	9
211H042A57	7	7	0	03	YARD ELECTRICAL PIPES & HANDHOLES	12DEC87	19DEC87	24DEC87	2JAN88	11
213H035A57	7	7	0	04	YARD ELECTRICAL PIPES & HANDHOLES	23DEC87	30DEC87	27DEC87	4JAN88	3
213H034A57	7	7	0	05	YARD ELECTRICAL PIPES & HANDHOLES	23DEC87	30DEC87	29DEC87	6JAN88	5
213H033A57	7	7	0	06	YARD ELECTRICAL PIPES & HANDHOLES	23DEC87	30DEC87	30DEC87	7JAN88	6
213H032A57	7	7	0	07	YARD ELECTRICAL PIPES & HANDHOLES	28DEC87	5JAN88	3JAN88	10JAN88	4
213H031A57	7	7	0	08	YARD ELECTRICAL PIPES & HANDHOLES	2JAN88	9JAN88	5JAN88	12JAN88	3
213H030A57	7	7	0	09	YARD ELECTRICAL PIPES & HANDHOLES	4JAN88	11JAN88	7JAN88	14JAN88	3
323H185A57	7	7	0	10	YARD ELECTRICAL PIPES & HANDHOLES	6JAN88	13JAN88	10JAN88	17JAN88	3
323H184A57	7	7	0	11	YARD ELECTRICAL PIPES & HANDHOLES	9JAN88	16JAN88	11JAN88	18JAN88	2
323H183A57	7	7	0	12	YARD ELECTRICAL PIPES & HANDHOLES	10JAN88	17JAN88	13JAN88	20JAN88	3

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
322H188A57	7	7	0	13	YARD ELECTRICAL PIPES & HANDHOLES	12JAN88	19JAN88	16JAN88	23JAN88	3
322H189A57	7	7	0	14	YARD ELECTRICAL PIPES & HANDHOLES	14JAN88	21JAN88	18JAN88	25JAN88	3
322H190A57	7	7	0	15	YARD ELECTRICAL PIPES & HANDHOLES	17JAN88	24JAN88	20JAN88	27JAN88	3
321H174A57	7	7	0	16	YARD ELECTRICAL PIPES & HANDHOLES	19JAN88	26JAN88	21JAN88	28JAN88	2
321H175A57	7	7	0	17	YARD ELECTRICAL PIPES & HANDHOLES	21JAN88	28JAN88	24JAN88	31JAN88	2
320H176A57	7	7	0	18	YARD ELECTRICAL PIPES & HANDHOLES	24JAN88	31JAN88	26JAN88	2FEB88	2
320H177A57	7	7	0	19	YARD ELECTRICAL PIPES & HANDHOLES	25JAN88	1FEB88	28JAN88	4FEB88	3
320H178A57	7	7	0	20	YARD ELECTRICAL PIPES & HANDHOLES	27JAN88	3FEB88	31JAN88	7FEB88	3
214H031A57	7	7	0	21	YARD ELECTRICAL PIPES & HANDHOLES	30JAN88	6FEB88	1FEB88	8FEB88	2
214H030A57	7	7	0	22	YARD ELECTRICAL PIPES & HANDHOLES	1FEB88	8FEB88	3FEB88	10FEB88	2
214H029A57	7	7	0	23	YARD ELECTRICAL PIPES & HANDHOLES	3FEB88	10FEB88	6FEB88	13FEB88	2
214H028A57	7	7	0	24	YARD ELECTRICAL PIPES & HANDHOLES	6FEB88	13FEB88	8FEB88	15FEB88	2
215H027A57	7	7	0	25	YARD ELECTRICAL PIPES & HANDHOLES	8FEB88	15FEB88	10FEB88	17FEB88	2
215H026A57	7	7	0	26	YARD ELECTRICAL PIPES & HANDHOLES	9FEB88	16FEB88	11FEB88	18FEB88	2
215H025A57	7	7	0	27	YARD ELECTRICAL PIPES & HANDHOLES	11FEB88	18FEB88	14FEB88	21FEB88	2
215H024A57	7	7	0	28	YARD ELECTRICAL PIPES & HANDHOLES	14FEB88	21FEB88	16FEB88	23FEB88	2
215H023A57	7	7	0	29	YARD ELECTRICAL PIPES & HANDHOLES	16FEB88	23FEB88	18FEB88	27FEB88	2
215H022A57	7	7	0	30	YARD ELECTRICAL PIPES & HANDHOLES	18FEB88	27FEB88	21FEB88	29FEB88	2
216H021A57	7	7	0	31	YARD ELECTRICAL PIPES & HANDHOLES	21FEB88	29FEB88	22FEB88	1MAR88	1
216H020A57	7	7	0	32	YARD ELECTRICAL PIPES & HANDHOLES	23FEB88	2MAR88	24FEB88	3MAR88	1
216H019A57	7	7	0	33	YARD ELECTRICAL PIPES & HANDHOLES	24FEB88	3MAR88	28FEB88	6MAR88	2
216H018A57	7	7	0	34	YARD ELECTRICAL PIPES & HANDHOLES	28FEB88	6MAR88	1MAR88	8MAR88	2
217H017A57	7	7	0	35	YARD ELECTRICAL PIPES & HANDHOLES	1MAR88	8MAR88	3MAR88	10MAR88	2
217H016A57	7	7	0	36	YARD ELECTRICAL PIPES & HANDHOLES	3MAR88	10MAR88	5MAR88	12MAR88	1
218H015A57	7	7	0	37	YARD ELECTRICAL PIPES & HANDHOLES	6MAR88	13MAR88	7MAR88	14MAR88	1
218H014A57	7	7	0	38	YARD ELECTRICAL PIPES & HANDHOLES	8MAR88	15MAR88	9MAR88	16MAR88	1
218H013A57	7	7	0	39	YARD ELECTRICAL PIPES & HANDHOLES	10MAR88	17MAR88	12MAR88	19MAR88	1
219H012A57	7	7	0	40	YARD ELECTRICAL PIPES & HANDHOLES	12MAR88	19MAR88	14MAR88	21MAR88	2
219H011A57	7	7	0	41	YARD ELECTRICAL PIPES & HANDHOLES	14MAR88	21MAR88	15MAR88	22MAR88	1
219H010A57	7	7	0	42	YARD ELECTRICAL PIPES & HANDHOLES	16MAR88	23MAR88	17MAR88	24MAR88	1
220H009A57	7	7	0	43	YARD ELECTRICAL PIPES & HANDHOLES	19MAR88	26MAR88	20MAR88	27MAR88	1
220H008A57	7	7	0	44	YARD ELECTRICAL PIPES & HANDHOLES	21MAR88	29MAR88	22MAR88	30MAR88	1
220H007A57	7	7	0	45	YARD ELECTRICAL PIPES & HANDHOLES	23MAR88	31MAR88	24MAR88	2APR88	1
220H006A57	7	7	0	46	YARD ELECTRICAL PIPES & HANDHOLES	26MAR88	3APR88	26MAR88	3APR88	0
220H005A57	7	7	0	47	YARD ELECTRICAL PIPES & HANDHOLES	27MAR88	4APR88	29MAR88	5APR88	1
221H004A57	7	7	0	48	YARD ELECTRICAL PIPES & HANDHOLES	30MAR88	6APR88	31MAR88	7APR88	1
221H003A57	7	7	0	49	YARD ELECTRICAL PIPES & HANDHOLES	2APR88	9APR88	1APR88	10APR88	1
221H002A57	7	7	0	50	YARD ELECTRICAL PIPES & HANDHOLES	4APR88	11APR88	5APR88	12APR88	1
221H001A57	7	7	0	51	YARD ELECTRICAL PIPES & HANDHOLES	6APR88	13APR88	6APR88	13APR88	0
211H044A58	6	6	0	01	SANITARY HOUSE CONNECTION	12DEC87	17DEC87	21DEC87	27DEC87	8
211H043A58	6	6	0	02	SANITARY HOUSE CONNECTION	12DEC87	17DEC87	24DEC87	30DEC87	11
211H042A58	6	6	0	03	SANITARY HOUSE CONNECTION	12DEC87	17DEC87	26DEC87	2JAN88	12
213H035A58	6	6	0	04	SANITARY HOUSE CONNECTION	23DEC87	29DEC87	28DEC87	4JAN88	4
213H034A58	6	6	0	05	SANITARY HOUSE CONNECTION	23DEC87	29DEC87	30DEC87	6JAN88	6
213H033A58	6	6	0	06	SANITARY HOUSE CONNECTION	23DEC87	29DEC87	2JAN88	7JAN88	7
213H032A58	6	6	0	07	SANITARY HOUSE CONNECTION	28DEC87	4JAN88	5JAN88	11JAN88	6
213H031A58	6	6	0	08	SANITARY HOUSE CONNECTION	2JAN88	7JAN88	6JAN88	12JAN88	4
213H030A58	6	6	0	09	SANITARY HOUSE CONNECTION	4JAN88	10JAN88	9JAN88	14JAN88	4
223H185A58	6	6	0	10	SANITARY HOUSE CONNECTION	6JAN88	12JAN88	11JAN88	17JAN88	4
223H186A58	6	6	0	11	SANITARY HOUSE CONNECTION	9JAN88	14JAN88	12JAN88	18JAN88	3
223H187A58	6	6	0	12	SANITARY HOUSE CONNECTION	10JAN88	16JAN88	16JAN88	21JAN88	5
222H188A58	6	6	0	13	SANITARY HOUSE CONNECTION	12JAN88	19JAN88	17JAN88	23JAN88	4
222H189A58	6	6	0	14	SANITARY HOUSE CONNECTION	14JAN88	20JAN88	19JAN88	25JAN88	4
222H190A58	6	6	0	15	SANITARY HOUSE CONNECTION	17JAN88	23JAN88	21JAN88	27JAN88	4
321K174A58	6	6	0	16	SANITARY HOUSE CONNECTION	19JAN88	25JAN88	23JAN88	28JAN88	3
321K175A58	6	6	0	17	SANITARY HOUSE CONNECTION	21JAN88	27JAN88	26JAN88	1FEB88	4
320H176A58	6	6	0	18	SANITARY HOUSE CONNECTION	24JAN88	30JAN88	27JAN88	2FEB88	3
320H177A58	6	6	0	19	SANITARY HOUSE CONNECTION	25JAN88	31JAN88	30JAN88	4FEB88	4
320H178A58	6	6	0	20	SANITARY HOUSE CONNECTION	27JAN88	2FEB88	1FEB88	7FEB88	4
214H031A58	6	6	0	21	SANITARY HOUSE CONNECTION	30JAN88	4FEB88	2FEB88	8FEB88	3
214H030A58	6	6	0	22	SANITARY HOUSE CONNECTION	1FEB88	7FEB88	6FEB88	11FEB88	3
214H029A58	6	6	0	23	SANITARY HOUSE CONNECTION	3FEB88	9FEB88	7FEB88	13FEB88	3
214H028A58	6	6	0	24	SANITARY HOUSE CONNECTION	6FEB88	11FEB88	9FEB88	15FEB88	3
215H027A58	6	6	0	25	SANITARY HOUSE CONNECTION	8FEB88	14FEB88	11FEB88	17FEB88	3
215H026A58	6	6	0	26	SANITARY HOUSE CONNECTION	9FEB88	15FEB88	13FEB88	18FEB88	3
215H025A58	6	6	0	27	SANITARY HOUSE CONNECTION	11FEB88	17FEB88	16FEB88	22FEB88	4
215H024A58	6	6	0	28	SANITARY HOUSE CONNECTION	14FEB88	20FEB88	17FEB88	23FEB88	3
215H023A58	6	6	0	29	SANITARY HOUSE CONNECTION	16FEB88	22FEB88	20FEB88	27FEB88	3
215H022A58	6	6	0	30	SANITARY HOUSE CONNECTION	18FEB88	24FEB88	22FEB88	29FEB88	3
216H021A58	6	6	0	31	SANITARY HOUSE CONNECTION	21FEB88	28FEB88	23FEB88	1MAR88	2
216H020A58	6	6	0	32	SANITARY HOUSE CONNECTION	23FEB88	1MAR88	28FEB88	5MAR88	2
216H019A58	6	6	0	33	SANITARY HOUSE CONNECTION	24FEB88	2MAR88	29FEB88	6MAR88	3
216H018A58	6	6	0	34	SANITARY HOUSE CONNECTION	28FEB88	5MAR88	2MAR88	8MAR88	3
217H017A58	6	6	0	35	SANITARY HOUSE CONNECTION	1MAR88	7MAR88	5MAR88	10MAR88	3
217H016A58	6	6	0	36	SANITARY HOUSE CONNECTION	3MAR88	9MAR88	6MAR88	12MAR88	2
218H015A58	6	6	0	37	SANITARY HOUSE CONNECTION	6MAR88	12MAR88	9MAR88	15MAR88	3
218H014A58	6	6	0	38	SANITARY HOUSE CONNECTION	8MAR88	14MAR88	10MAR88	16MAR88	2
218H013A58	6	6	0	39	SANITARY HOUSE CONNECTION	10MAR88	16MAR88	13MAR88	19MAR88	2
219H012A58	6	6	0	40	SANITARY HOUSE CONNECTION	12MAR88	17MAR88	15MAR88	21MAR88	3
219H011A58	6	6	0	41	SANITARY HOUSE CONNECTION	14MAR88	20MAR88	16MAR88	22MAR88	2
219H010A58	6	6	0	42	SANITARY HOUSE CONNECTION	16MAR88	22MAR88	20MAR88	26MAR88	3
220H009A58	6	6	0	43	SANITARY HOUSE CONNECTION	19MAR88	24MAR88	21MAR88	27MAR88	2
220H008A58	6	6	0	44	SANITARY HOUSE CONNECTION	21MAR88	27MAR88	23MAR88	30MAR88	2
220H007A58	6	6	0	45	SANITARY HOUSE CONNECTION	23MAR88	30MAR88	26MAR88	2APR88	2
220H006A58	6	6	0	46	SANITARY HOUSE CONNECTION	26MAR88	2APR88	27MAR88	3APR88	1
220H005A58	6	6	0	47	SANITARY HOUSE CONNECTION	27MAR88	3APR88	31MAR88	6APR88	3
220H004A58	6	6	0	48	SANITARY HOUSE CONNECTION	30MAR88	5APR88	2APR88	7APR88	2
221H003A58	6	6	0	49	SANITARY HOUSE CONNECTION	2APR88	7APR88	4APR88	10APR88	2
221H002A58	6	6	0	50	SANITARY HOUSE CONNECTION	4APR88	10APR88	6APR88	12APR88	2
221H001A58	6	6	0	51	SANITARY HOUSE CONNECTION	6APR88	12APR88	7APR88	13APR88	1
211H044A59	6	6	0	01	ROOF MASTIC & TOUCH-UPS	13DEC87	19DEC87	2FEB88	8FEB88	43
211H043A59	6	6	0	02	ROOF MASTIC & TOUCH-UPS	15DEC87	21DEC87	10FEB88	10FEB88	43
211H042A59	6	6	0	03	ROOF MASTIC & TOUCH-UPS	17DEC87	23DEC87	4FEB88	10FEB88	41
213H035A59	6	6	0	04	ROOF MASTIC & TOUCH-UPS	24DEC87	30DEC87	9FEB88	15FEB88	39
213H034A59	6	6	0	05	ROOF MASTIC & TOUCH-UPS	27DEC87	3JAN88	11FEB88	17FEB88	39
213H033A59	6	6	0	06	ROOF MASTIC & TOUCH-UPS	29DEC87	5JAN88	12FEB88	17FEB88	37

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 13AUG98

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR97 PAGE NO. 31

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
213H032A59	6	6	0	07	ROOF MASTIC & TOUCH-UPS	3JAN98	9JAN98	16FEB98	22FEB98	38
213H033A59	6	6	0	08	ROOF MASTIC & TOUCH-UPS	6JAN98	12JAN98	18FEB98	24FEB98	37
213H034A59	6	6	0	09	ROOF MASTIC & TOUCH-UPS	9JAN98	14JAN98	18FEB98	24FEB98	35
213H035A59	6	6	0	10	ROOF MASTIC & TOUCH-UPS	11JAN98	17JAN98	23FEB98	1MAR98	37
213H036A59	6	6	0	11	ROOF MASTIC & TOUCH-UPS	14JAN98	20JAN98	27FEB98	3MAR98	36
213H037A59	6	6	0	12	ROOF MASTIC & TOUCH-UPS	18JAN98	24JAN98	27FEB98	3MAR98	33
213H038A59	6	6	0	13	ROOF MASTIC & TOUCH-UPS	20JAN98	26JAN98	2MAR98	8MAR98	35
213H039A59	6	6	0	14	ROOF MASTIC & TOUCH-UPS	23JAN98	29JAN98	5MAR98	10MAR98	35
213H040A59	6	6	0	15	ROOF MASTIC & TOUCH-UPS	26JAN98	1FEB98	5MAR98	10MAR98	32
213H041A59	6	6	0	16	ROOF MASTIC & TOUCH-UPS	30JAN98	4FEB98	9MAR98	15MAR98	33
213H042A59	6	6	0	17	ROOF MASTIC & TOUCH-UPS	1FEB98	7FEB98	12MAR98	17MAR98	33
213H043A59	6	6	0	18	ROOF MASTIC & TOUCH-UPS	3FEB98	9FEB98	12MAR98	17MAR98	31
213H044A59	6	6	0	19	ROOF MASTIC & TOUCH-UPS	7FEB98	13FEB98	16MAR98	22MAR98	32
213H045A59	6	6	0	20	ROOF MASTIC & TOUCH-UPS	10FEB98	16FEB98	19MAR98	24MAR98	31
213H046A59	6	6	0	21	ROOF MASTIC & TOUCH-UPS	13FEB98	18FEB98	19MAR98	24MAR98	29
213H047A59	6	6	0	22	ROOF MASTIC & TOUCH-UPS	15FEB98	21FEB98	23MAR98	30MAR98	31
213H048A59	6	6	0	23	ROOF MASTIC & TOUCH-UPS	18FEB98	24FEB98	26MAR98	2APR98	30
213H049A59	6	6	0	24	ROOF MASTIC & TOUCH-UPS	22FEB98	29FEB98	26MAR98	2APR98	27
213H050A59	6	6	0	25	ROOF MASTIC & TOUCH-UPS	24FEB98	2MAR98	31MAR98	6APR98	29
213H051A59	6	6	0	26	ROOF MASTIC & TOUCH-UPS	28FEB98	5MAR98	3APR98	9APR98	29
213H052A59	6	6	0	27	ROOF MASTIC & TOUCH-UPS	2MAR98	8MAR98	3APR98	9APR98	26
213H053A59	6	6	0	28	ROOF MASTIC & TOUCH-UPS	6MAR98	12MAR98	7APR98	13APR98	27
213H054A59	6	6	0	29	ROOF MASTIC & TOUCH-UPS	8MAR98	14MAR98	10APR98	16APR98	27
213H055A59	6	6	0	30	ROOF MASTIC & TOUCH-UPS	10MAR98	16MAR98	10APR98	16APR98	25
213H056A59	6	6	0	31	ROOF MASTIC & TOUCH-UPS	14MAR98	20MAR98	10APR98	20APR98	26
213H057A59	6	6	0	32	ROOF MASTIC & TOUCH-UPS	17MAR98	23MAR98	17APR98	23APR98	25
213H058A59	6	6	0	33	ROOF MASTIC & TOUCH-UPS	20MAR98	26MAR98	17APR98	23APR98	23
213H059A59	6	6	0	34	ROOF MASTIC & TOUCH-UPS	22MAR98	29MAR98	21APR98	27APR98	25
213H060A59	6	6	0	35	ROOF MASTIC & TOUCH-UPS	26MAR98	2APR98	24APR98	30APR98	24
213H061A59	6	6	0	36	ROOF MASTIC & TOUCH-UPS	30MAR98	5APR98	24APR98	30APR98	21
213H062A59	6	6	0	37	ROOF MASTIC & TOUCH-UPS	2APR98	7APR98	28APR98	4MAY98	23
213H063A59	6	6	0	38	ROOF MASTIC & TOUCH-UPS	4APR98	10APR98	1MAY98	7MAY98	23
213H064A59	6	6	0	39	ROOF MASTIC & TOUCH-UPS	7APR98	13APR98	1MAY98	7MAY98	20
213H065A59	6	6	0	40	ROOF MASTIC & TOUCH-UPS	11APR98	17APR98	5MAY98	11MAY98	21
213H066A59	6	6	0	41	ROOF MASTIC & TOUCH-UPS	13APR98	19APR98	8MAY98	14MAY98	21
213H067A59	6	6	0	42	ROOF MASTIC & TOUCH-UPS	16APR98	22APR98	8MAY98	14MAY98	19
213H068A59	6	6	0	43	ROOF MASTIC & TOUCH-UPS	19APR98	25APR98	12MAY98	18MAY98	20
213H069A59	6	6	0	44	ROOF MASTIC & TOUCH-UPS	22APR98	28APR98	15MAY98	21MAY98	19
213H070A59	6	6	0	45	ROOF MASTIC & TOUCH-UPS	25APR98	1MAY98	15MAY98	21MAY98	17
213H071A59	6	6	0	46	ROOF MASTIC & TOUCH-UPS	27APR98	3MAY98	19MAY98	25MAY98	19
213H072A59	6	6	0	47	ROOF MASTIC & TOUCH-UPS	1MAY98	7MAY98	22MAY98	28MAY98	18
213H073A59	6	6	0	48	ROOF MASTIC & TOUCH-UPS	4MAY98	10MAY98	22MAY98	28MAY98	15
213H074A59	6	6	0	49	ROOF MASTIC & TOUCH-UPS	7MAY98	12MAY98	26MAY98	2JUN98	17
213H075A59	6	6	0	50	ROOF MASTIC & TOUCH-UPS	9MAY98	15MAY98	29MAY98	5JUN98	17
213H076A59	6	6	0	51	ROOF MASTIC & TOUCH-UPS	12MAY98	18MAY98	29MAY98	5JUN98	14
213H077A59	6	6	0	01	WATER TANK SHED	13DEC97	16DEC97	7FEB98	10FEB98	47
213H078A59	6	6	0	02	WATER TANK SHED	15DEC97	19DEC97	11FEB98	15FEB98	49
213H079A59	6	6	0	03	WATER TANK SHED	17DEC97	21DEC97	11FEB98	15FEB98	47
213H080A59	6	6	0	04	WATER TANK SHED	24DEC97	28DEC97	16FEB98	20FEB98	45
213H081A59	6	6	0	05	WATER TANK SHED	27DEC97	30DEC97	16FEB98	20FEB98	43
213H082A59	6	6	0	06	WATER TANK SHED	29DEC97	3JAN98	21FEB98	24FEB98	45
213H083A59	6	6	0	07	WATER TANK SHED	3JAN98	6JAN98	21FEB98	24FEB98	42
213H084A59	6	6	0	08	WATER TANK SHED	6JAN98	10JAN98	27FEB98	1MAR98	43
213H085A59	6	6	0	09	WATER TANK SHED	9JAN98	12JAN98	27FEB98	1MAR98	41
213H086A59	6	6	0	10	WATER TANK SHED	11JAN98	14JAN98	2MAR98	6MAR98	43
213H087A59	6	6	0	11	WATER TANK SHED	14JAN98	18JAN98	2MAR98	6MAR98	40
213H088A59	6	6	0	12	WATER TANK SHED	18JAN98	21JAN98	7MAR98	10MAR98	41
213H089A59	6	6	0	13	WATER TANK SHED	20JAN98	24JAN98	7MAR98	10MAR98	39
213H090A59	6	6	0	14	WATER TANK SHED	23JAN98	26JAN98	12MAR98	15MAR98	41
213H091A59	6	6	0	15	WATER TANK SHED	26JAN98	30JAN98	12MAR98	15MAR98	38
213H092A59	6	6	0	16	WATER TANK SHED	30JAN98	2FEB98	16MAR98	20MAR98	39
213H093A59	6	6	0	17	WATER TANK SHED	1FEB98	4FEB98	16MAR98	20MAR98	37
213H094A59	6	6	0	18	WATER TANK SHED	3FEB98	7FEB98	21MAR98	24MAR98	39
213H095A59	6	6	0	19	WATER TANK SHED	7FEB98	10FEB98	21MAR98	24MAR98	36
213H096A59	6	6	0	20	WATER TANK SHED	10FEB98	14FEB98	26MAR98	30MAR98	37
213H097A59	6	6	0	21	WATER TANK SHED	13FEB98	16FEB98	26MAR98	30MAR98	35
213H098A59	6	6	0	22	WATER TANK SHED	15FEB98	18FEB98	31MAR98	4APR98	37
213H099A59	6	6	0	23	WATER TANK SHED	18FEB98	22FEB98	31MAR98	4APR98	34
213H100A59	6	6	0	24	WATER TANK SHED	22FEB98	27FEB98	5APR98	9APR98	35
213H101A59	6	6	0	25	WATER TANK SHED	24FEB98	29FEB98	5APR98	9APR98	33
213H102A59	6	6	0	26	WATER TANK SHED	28FEB98	2MAR98	10APR98	13APR98	35
213H103A59	6	6	0	27	WATER TANK SHED	2MAR98	6MAR98	10APR98	13APR98	32
213H104A59	6	6	0	28	WATER TANK SHED	6MAR98	9MAR98	14APR98	18APR98	33
213H105A59	6	6	0	29	WATER TANK SHED	8MAR98	12MAR98	14APR98	18APR98	31
213H106A59	6	6	0	30	WATER TANK SHED	10MAR98	14MAR98	19APR98	23APR98	33
213H107A59	6	6	0	31	WATER TANK SHED	14MAR98	17MAR98	19APR98	23APR98	30
213H108A59	6	6	0	32	WATER TANK SHED	17MAR98	21MAR98	24APR98	27APR98	31
213H109A59	6	6	0	33	WATER TANK SHED	20MAR98	23MAR98	24APR98	27APR98	29
213H110A59	6	6	0	34	WATER TANK SHED	23MAR98	26MAR98	28APR98	2MAY98	31
213H111A59	6	6	0	35	WATER TANK SHED	26MAR98	30MAR98	28APR98	2MAY98	28
213H112A59	6	6	0	36	WATER TANK SHED	30MAR98	3APR98	3MAY98	7MAY98	29
213H113A59	6	6	0	37	WATER TANK SHED	2APR98	5APR98	3MAY98	7MAY98	27
213H114A59	6	6	0	38	WATER TANK SHED	4APR98	7APR98	8MAY98	11MAY98	29
213H115A59	6	6	0	39	WATER TANK SHED	7APR98	11APR98	8MAY98	11MAY98	26
213H116A59	6	6	0	40	WATER TANK SHED	11APR98	14APR98	12MAY98	16MAY98	27
213H117A59	6	6	0	41	WATER TANK SHED	13APR98	17APR98	12MAY98	16MAY98	25
213H118A59	6	6	0	42	WATER TANK SHED	16APR98	19APR98	17MAY98	21MAY98	27
213H119A59	6	6	0	43	WATER TANK SHED	19APR98	23APR98	17MAY98	21MAY98	24
213H120A59	6	6	0	44	WATER TANK SHED	23APR98	26APR98	22MAY98	25MAY98	25
213H121A59	6	6	0	45	WATER TANK SHED	25APR98	28APR98	22MAY98	25MAY98	23
213H122A59	6	6	0	46	WATER TANK SHED	27APR98	1MAY98	26MAY98	31MAY98	25
213H123A59	6	6	0	47	WATER TANK SHED	1MAY98	4MAY98	26MAY98	31MAY98	22
213H124A59	6	6	0	48	WATER TANK SHED	4MAY98	8MAY98	1JUN98	5JUN98	23
213H125A59	6	6	0	49	WATER TANK SHED	7MAY98	10MAY98	1JUN98	5JUN98	21
213H126A59	6	6	0	50	WATER TANK SHED	9MAY98	12MAY98	6JUN98	9JUN98	23
213H127A59	6	6	0	51	WATER TANK SHED	12MAY98	16MAY98	6JUN98	9JUN98	20

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 11SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 13AUG99

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR97 PAGE NO. 32

ACTIVITY ID	ORIG DUR	REM DUR	+	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
211H044A61	9	9	0	01	ALUMINUM FRAMES, WINDOWS & DOORS	19DEC87	28DEC87	4JAN88	13JAN88	13
211H043A61	9	9	0	02	ALUMINUM FRAMES, WINDOWS & DOORS	19DEC87	28DEC87	7JAN88	17JAN88	16
211H042A61	9	9	0	03	ALUMINUM FRAMES, WINDOWS & DOORS	23DEC87	3JAN88	7JAN88	17JAN88	12
213H035A61	9	9	0	04	ALUMINUM FRAMES, WINDOWS & DOORS	30DEC87	10JAN88	11JAN88	20JAN88	9
213H036A61	9	9	0	05	ALUMINUM FRAMES, WINDOWS & DOORS	30DEC87	10JAN88	14JAN88	24JAN88	11
213H037A61	9	9	0	06	ALUMINUM FRAMES, WINDOWS & DOORS	5JAN88	14JAN88	18JAN88	27JAN88	11
213H032A61	9	9	0	07	ALUMINUM FRAMES, WINDOWS & DOORS	9JAN88	18JAN88	18JAN88	27JAN88	8
213H031A61	9	9	0	08	ALUMINUM FRAMES, WINDOWS & DOORS	11JAN88	20JAN88	21JAN88	31JAN88	9
213H034A61	9	9	0	09	ALUMINUM FRAMES, WINDOWS & DOORS	14JAN88	24JAN88	25JAN88	3FEB88	9
223H185A61	9	9	0	10	ALUMINUM FRAMES, WINDOWS & DOORS	17JAN88	26JAN88	28JAN88	7FEB88	10
223H186A61	9	9	0	11	ALUMINUM FRAMES, WINDOWS & DOORS	19JAN88	28JAN88	28JAN88	7FEB88	8
223H187A61	9	9	0	12	ALUMINUM FRAMES, WINDOWS & DOORS	23JAN88	1FEB88	1FEB88	10FEB88	8
222H188A61	9	9	0	13	ALUMINUM FRAMES, WINDOWS & DOORS	25JAN88	3FEB88	4FEB88	14FEB88	9
222H189A61	9	9	0	14	ALUMINUM FRAMES, WINDOWS & DOORS	28JAN88	7FEB88	8FEB88	17FEB88	9
222H190A61	9	9	0	15	ALUMINUM FRAMES, WINDOWS & DOORS	31JAN88	9FEB88	8FEB88	17FEB88	7
221H174A61	9	9	0	16	ALUMINUM FRAMES, WINDOWS & DOORS	2FEB88	11FEB88	11FEB88	21FEB88	8
221H175A61	9	9	0	17	ALUMINUM FRAMES, WINDOWS & DOORS	6FEB88	15FEB88	15FEB88	24FEB88	8
220H176A61	9	9	0	18	ALUMINUM FRAMES, WINDOWS & DOORS	8FEB88	17FEB88	18FEB88	29FEB88	9
220H177A61	9	9	0	19	ALUMINUM FRAMES, WINDOWS & DOORS	11FEB88	21FEB88	18FEB88	29FEB88	6
220H178A61	9	9	0	20	ALUMINUM FRAMES, WINDOWS & DOORS	14FEB88	23FEB88	22FEB88	3MAR88	7
214H031A61	9	9	0	21	ALUMINUM FRAMES, WINDOWS & DOORS	16FEB88	27FEB88	27FEB88	7MAR88	8
214H030A61	9	9	0	22	ALUMINUM FRAMES, WINDOWS & DOORS	20FEB88	1MAR88	1MAR88	10MAR88	8
214H029A61	9	9	0	23	ALUMINUM FRAMES, WINDOWS & DOORS	22FEB88	3MAR88	1MAR88	10MAR88	6
214H028A61	9	9	0	24	ALUMINUM FRAMES, WINDOWS & DOORS	27FEB88	7MAR88	5MAR88	14MAR88	7
215H027A61	9	9	0	25	ALUMINUM FRAMES, WINDOWS & DOORS	29FEB88	9MAR88	8MAR88	17MAR88	6
215H026A61	9	9	0	26	ALUMINUM FRAMES, WINDOWS & DOORS	2MAR88	12MAR88	12MAR88	21MAR88	8
215H025A61	9	9	0	27	ALUMINUM FRAMES, WINDOWS & DOORS	6MAR88	15MAR88	12MAR88	21MAR88	5
215H024A61	9	9	0	28	ALUMINUM FRAMES, WINDOWS & DOORS	8MAR88	17MAR88	15MAR88	24MAR88	6
215H023A61	9	9	0	29	ALUMINUM FRAMES, WINDOWS & DOORS	12MAR88	21MAR88	19MAR88	29MAR88	6
215H022A61	9	9	0	30	ALUMINUM FRAMES, WINDOWS & DOORS	14MAR88	23MAR88	22MAR88	2APR88	7
216H021A61	9	9	0	31	ALUMINUM FRAMES, WINDOWS & DOORS	16MAR88	26MAR88	22MAR88	2APR88	5
216H020A61	9	9	0	32	ALUMINUM FRAMES, WINDOWS & DOORS	20MAR88	30MAR88	26MAR88	5APR88	5
216H019A61	9	9	0	33	ALUMINUM FRAMES, WINDOWS & DOORS	22MAR88	2APR88	30MAR88	9APR88	6
216H018A61	9	9	0	34	ALUMINUM FRAMES, WINDOWS & DOORS	26MAR88	5APR88	3APR88	12APR88	6
217H017A61	9	9	0	35	ALUMINUM FRAMES, WINDOWS & DOORS	29MAR88	7APR88	3APR88	12APR88	4
217H016A61	9	9	0	36	ALUMINUM FRAMES, WINDOWS & DOORS	31MAR88	10APR88	6APR88	16APR88	5
218H015A61	9	9	0	37	ALUMINUM FRAMES, WINDOWS & DOORS	4APR88	13APR88	10APR88	19APR88	5
218H014A61	9	9	0	38	ALUMINUM FRAMES, WINDOWS & DOORS	6APR88	16APR88	13APR88	23APR88	6
218H013A61	9	9	0	39	ALUMINUM FRAMES, WINDOWS & DOORS	10APR88	19APR88	17APR88	27APR88	3
219H012A61	9	9	0	40	ALUMINUM FRAMES, WINDOWS & DOORS	12APR88	21APR88	17APR88	26APR88	4
219H011A61	9	9	0	41	ALUMINUM FRAMES, WINDOWS & DOORS	14APR88	24APR88	20APR88	30APR88	5
219H010A61	9	9	0	42	ALUMINUM FRAMES, WINDOWS & DOORS	18APR88	27APR88	24APR88	3MAY88	5
220H009A61	9	9	0	43	ALUMINUM FRAMES, WINDOWS & DOORS	20APR88	30APR88	24APR88	3MAY88	3
220H008A61	9	9	0	44	ALUMINUM FRAMES, WINDOWS & DOORS	24APR88	3MAY88	27APR88	7MAY88	3
220H007A61	9	9	0	45	ALUMINUM FRAMES, WINDOWS & DOORS	26APR88	5MAY88	1MAY88	10MAY88	4
220H006A61	9	9	0	46	ALUMINUM FRAMES, WINDOWS & DOORS	28APR88	8MAY88	4MAY88	14MAY88	5
220H005A61	9	9	0	47	ALUMINUM FRAMES, WINDOWS & DOORS	2MAY88	11MAY88	4MAY88	14MAY88	2
220H004A61	9	9	0	48	ALUMINUM FRAMES, WINDOWS & DOORS	4MAY88	14MAY88	8MAY88	17MAY88	3
221H003A61	9	9	0	49	ALUMINUM FRAMES, WINDOWS & DOORS	8MAY88	17MAY88	11MAY88	21MAY88	3
221H002A61	9	9	0	50	ALUMINUM FRAMES, WINDOWS & DOORS	10MAY88	19MAY88	15MAY88	24MAY88	4
221H001A61	9	9	0	51	ALUMINUM FRAMES, WINDOWS & DOORS	12MAY88	22MAY88	15MAY88	24MAY88	2
211H044A62	4	4	0	01	ELECTRICAL BOARDS CONNECTION	19DEC87	22DEC87	25JAN88	28JAN88	31
211H043A62	4	4	0	02	ELECTRICAL BOARDS CONNECTION	19DEC87	22DEC87	30JAN88	2FEB88	15
211H042A62	4	4	0	03	ELECTRICAL BOARDS CONNECTION	23DEC87	27DEC87	30JAN88	2FEB88	11
213H035A62	4	4	0	04	ELECTRICAL BOARDS CONNECTION	30DEC87	4JAN88	3FEB88	7FEB88	29
213H036A62	4	4	0	05	ELECTRICAL BOARDS CONNECTION	30DEC87	4JAN88	3FEB88	7FEB88	29
213H037A62	4	4	0	06	ELECTRICAL BOARDS CONNECTION	5JAN88	9JAN88	8FEB88	11FEB88	29
213H032A62	4	4	0	07	ELECTRICAL BOARDS CONNECTION	9JAN88	12JAN88	8FEB88	11FEB88	26
213H031A62	4	4	0	08	ELECTRICAL BOARDS CONNECTION	10JAN88	13JAN88	13FEB88	16FEB88	29
213H034A62	4	4	0	09	ELECTRICAL BOARDS CONNECTION	14JAN88	18JAN88	13FEB88	16FEB88	25
223H185A62	4	4	0	10	ELECTRICAL BOARDS CONNECTION	17JAN88	20JAN88	17FEB88	21FEB88	27
223H186A62	4	4	0	11	ELECTRICAL BOARDS CONNECTION	19JAN88	23JAN88	17FEB88	21FEB88	25
223H187A62	4	4	0	12	ELECTRICAL BOARDS CONNECTION	23JAN88	26JAN88	22FEB88	27FEB88	26
222H188A62	4	4	0	13	ELECTRICAL BOARDS CONNECTION	25JAN88	28JAN88	22FEB88	27FEB88	24
222H189A62	4	4	0	14	ELECTRICAL BOARDS CONNECTION	28JAN88	1FEB88	28FEB88	2MAR88	25
222H190A62	4	4	0	15	ELECTRICAL BOARDS CONNECTION	31JAN88	3FEB88	28FEB88	2MAR88	23
221H174A62	4	4	0	16	ELECTRICAL BOARDS CONNECTION	2FEB88	6FEB88	3MAR88	7MAR88	25
221H175A62	4	4	0	17	ELECTRICAL BOARDS CONNECTION	6FEB88	9FEB88	3MAR88	7MAR88	22
220H176A62	4	4	0	18	ELECTRICAL BOARDS CONNECTION	8FEB88	11FEB88	8MAR88	12MAR88	24
220H177A62	4	4	0	19	ELECTRICAL BOARDS CONNECTION	11FEB88	15FEB88	8MAR88	12MAR88	21
220H178A62	4	4	0	20	ELECTRICAL BOARDS CONNECTION	14FEB88	17FEB88	13MAR88	16MAR88	23
214H031A62	4	4	0	21	ELECTRICAL BOARDS CONNECTION	16FEB88	20FEB88	13MAR88	16MAR88	21
214H030A62	4	4	0	22	ELECTRICAL BOARDS CONNECTION	20FEB88	23FEB88	17MAR88	21MAR88	22
214H029A62	4	4	0	23	ELECTRICAL BOARDS CONNECTION	22FEB88	27FEB88	17MAR88	21MAR88	20
214H028A62	4	4	0	24	ELECTRICAL BOARDS CONNECTION	27FEB88	3MAR88	22MAR88	26MAR88	21
215H027A62	4	4	0	25	ELECTRICAL BOARDS CONNECTION	29FEB88	3MAR88	22MAR88	26MAR88	19
215H026A62	4	4	0	26	ELECTRICAL BOARDS CONNECTION	2MAR88	6MAR88	27MAR88	31MAR88	21
215H025A62	4	4	0	27	ELECTRICAL BOARDS CONNECTION	4MAR88	9MAR88	27MAR88	31MAR88	18
215H024A62	4	4	0	28	ELECTRICAL BOARDS CONNECTION	8MAR88	12MAR88	2APR88	5APR88	20
215H023A62	4	4	0	29	ELECTRICAL BOARDS CONNECTION	12MAR88	15MAR88	2APR88	5APR88	17
215H022A62	4	4	0	30	ELECTRICAL BOARDS CONNECTION	14MAR88	17MAR88	6APR88	10APR88	19
216H021A62	4	4	0	31	ELECTRICAL BOARDS CONNECTION	16MAR88	20MAR88	6APR88	10APR88	17
216H020A62	4	4	0	32	ELECTRICAL BOARDS CONNECTION	20MAR88	23MAR88	11APR88	14APR88	18
216H019A62	4	4	0	33	ELECTRICAL BOARDS CONNECTION	22MAR88	26MAR88	11APR88	14APR88	16
216H018A62	4	4	0	34	ELECTRICAL BOARDS CONNECTION	26MAR88	30MAR88	16APR88	19APR88	17
217H017A62	4	4	0	35	ELECTRICAL BOARDS CONNECTION	29MAR88	2APR88	16APR88	19APR88	15
217H016A62	4	4	0	36	ELECTRICAL BOARDS CONNECTION	31MAR88	4APR88	20APR88	24APR88	17
218H015A62	4	4	0	37	ELECTRICAL BOARDS CONNECTION	4APR88	7APR88	20APR88	24APR88	14
218H014A62	4	4	0	38	ELECTRICAL BOARDS CONNECTION	6APR88	10APR88	25APR88	28APR88	16
218H013A62	4	4	0	39	ELECTRICAL BOARDS CONNECTION	10APR88	13APR88	25APR88	28APR88	13
219H012A62	4	4	0	40	ELECTRICAL BOARDS CONNECTION	12APR88	16APR88	30APR88	3MAY88	15
219H011A62	4	4	0	41	ELECTRICAL BOARDS CONNECTION	14APR88	18APR88	30APR88	3MAY88	13
219H010A62	4	4	0	42	ELECTRICAL BOARDS CONNECTION	18APR88	21APR88	4MAY88	8MAY88	14
220H009A62	4	4	0	43	ELECTRICAL BOARDS CONNECTION	20APR88	24APR88	4MAY88	8MAY88	12
220H008A62	4	4	0	44	ELECTRICAL BOARDS CONNECTION	24APR88	27APR88	9MAY88	12MAY88	13
220H007A62	4	4	0	45	ELECTRICAL BOARDS CONNECTION	26APR88	30APR88	9MAY88	12MAY88	11

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 33

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
220H006A62	4	4	0	46	ELECTRICAL BOARDS CONNECTION	28APR88	2MAY88	14MAY88	17MAY88	13
220H005A62	4	4	0	47	ELECTRICAL BOARDS CONNECTION	2MAY88	5MAY88	14MAY88	17MAY88	10
220H004A62	4	4	0	48	ELECTRICAL BOARDS CONNECTION	4MAY88	8MAY88	18MAY88	22MAY88	12
221H003A62	4	4	0	49	ELECTRICAL BOARDS CONNECTION	8MAY88	11MAY88	18MAY88	22MAY88	9
221H002A62	4	4	0	50	ELECTRICAL BOARDS CONNECTION	10MAY88	14MAY88	23MAY88	26MAY88	11
221H001A62	4	4	0	51	ELECTRICAL BOARDS CONNECTION	12MAY88	16MAY88	23MAY88	26MAY88	9
211H044A63	6	6	0	01	PAINT, FIRST & SECOND COATS	19DEC87	24DEC87	21JAN88	27JAN88	28
211H043A63	6	6	0	02	PAINT, FIRST & SECOND COATS	19DEC87	24DEC87	25JAN88	31JAN88	31
211H042A63	6	6	0	03	PAINT, FIRST & SECOND COATS	23DEC87	29DEC87	25JAN88	31JAN88	27
211H035A63	6	6	0	04	PAINT, FIRST & SECOND COATS	30DEC87	6JAN88	28JAN88	3FEB88	24
213H036A63	6	6	0	05	PAINT, FIRST & SECOND COATS	30DEC87	6JAN88	1FEB88	7FEB88	27
213H037A63	6	6	0	06	PAINT, FIRST & SECOND COATS	5JAN88	11JAN88	1FEB88	7FEB88	23
213H032A63	6	6	0	07	PAINT, FIRST & SECOND COATS	9JAN88	14JAN88	4FEB88	10FEB88	23
213H031A63	6	6	0	08	PAINT, FIRST & SECOND COATS	10JAN88	16JAN88	8FEB88	14FEB88	25
213H034A63	6	6	0	09	PAINT, FIRST & SECOND COATS	14JAN88	20JAN88	8FEB88	14FEB88	21
223H185A63	6	6	0	10	PAINT, FIRST & SECOND COATS	17JAN88	23JAN88	11FEB88	17FEB88	22
223H186A63	6	6	0	11	PAINT, FIRST & SECOND COATS	19JAN88	25JAN88	15FEB88	21FEB88	23
223H187A63	6	6	0	12	PAINT, FIRST & SECOND COATS	23JAN88	28JAN88	15FEB88	21FEB88	20
222H188A63	6	6	0	13	PAINT, FIRST & SECOND COATS	25JAN88	31JAN88	18FEB88	24FEB88	21
222H189A63	6	6	0	14	PAINT, FIRST & SECOND COATS	28JAN88	3FEB88	22FEB88	29FEB88	21
222H190A63	6	6	0	15	PAINT, FIRST & SECOND COATS	31JAN88	6FEB88	22FEB88	29FEB88	19
221H174A63	6	6	0	16	PAINT, FIRST & SECOND COATS	2FEB88	8FEB88	27FEB88	3MAR88	20
221H175A63	6	6	0	17	PAINT, FIRST & SECOND COATS	6FEB88	11FEB88	1MAR88	7MAR88	20
220H176A63	6	6	0	18	PAINT, FIRST & SECOND COATS	8FEB88	14FEB88	1MAR88	7MAR88	18
220H177A63	6	6	0	19	PAINT, FIRST & SECOND COATS	11FEB88	17FEB88	5MAR88	10MAR88	18
220H178A63	6	6	0	20	PAINT, FIRST & SECOND COATS	14FEB88	20FEB88	8MAR88	14MAR88	19
214H031A63	6	6	0	21	PAINT, FIRST & SECOND COATS	16FEB88	22FEB88	8MAR88	14MAR88	17
214H030A63	6	6	0	22	PAINT, FIRST & SECOND COATS	20FEB88	27FEB88	12MAR88	17MAR88	17
214H029A63	6	6	0	23	PAINT, FIRST & SECOND COATS	22FEB88	29FEB88	15MAR88	21MAR88	18
214H028A63	6	6	0	24	PAINT, FIRST & SECOND COATS	27FEB88	3MAR88	15MAR88	21MAR88	15
215H027A63	6	6	0	25	PAINT, FIRST & SECOND COATS	29FEB88	6MAR88	19MAR88	24MAR88	16
215H026A63	6	6	0	26	PAINT, FIRST & SECOND COATS	2MAR88	8MAR88	22MAR88	29MAR88	17
215H025A63	6	6	0	27	PAINT, FIRST & SECOND COATS	6MAR88	12MAR88	22MAR88	29MAR88	14
215H024A63	6	6	0	28	PAINT, FIRST & SECOND COATS	8MAR88	14MAR88	26MAR88	2APR88	15
215H023A63	6	6	0	29	PAINT, FIRST & SECOND COATS	12MAR88	17MAR88	30MAR88	5APR88	15
215H022A63	6	6	0	30	PAINT, FIRST & SECOND COATS	14MAR88	20MAR88	30MAR88	5APR88	13
216H021A63	6	6	0	31	PAINT, FIRST & SECOND COATS	16MAR88	22MAR88	3APR88	9APR88	14
216H020A63	6	6	0	32	PAINT, FIRST & SECOND COATS	20MAR88	26MAR88	6APR88	12APR88	14
216H019A63	6	6	0	33	PAINT, FIRST & SECOND COATS	22MAR88	29MAR88	6APR88	12APR88	12
216H018A63	6	6	0	34	PAINT, FIRST & SECOND COATS	26MAR88	2APR88	10APR88	16APR88	12
217H017A63	6	6	0	35	PAINT, FIRST & SECOND COATS	29MAR88	4APR88	13APR88	19APR88	13
217H016A63	6	6	0	36	PAINT, FIRST & SECOND COATS	31MAR88	6APR88	13APR88	19APR88	11
218H015A63	6	6	0	37	PAINT, FIRST & SECOND COATS	4APR88	10APR88	17APR88	23APR88	11
218H014A63	6	6	0	38	PAINT, FIRST & SECOND COATS	6APR88	12APR88	20APR88	26APR88	12
218H013A63	6	6	0	39	PAINT, FIRST & SECOND COATS	10APR88	16APR88	20APR88	26APR88	9
219H012A63	6	6	0	40	PAINT, FIRST & SECOND COATS	12APR88	18APR88	24APR88	30APR88	10
219H011A63	6	6	0	41	PAINT, FIRST & SECOND COATS	14APR88	20APR88	27APR88	3MAY88	11
219H010A63	6	6	0	42	PAINT, FIRST & SECOND COATS	18APR88	24APR88	27APR88	3MAY88	8
220H009A63	6	6	0	43	PAINT, FIRST & SECOND COATS	20APR88	26APR88	1MAY88	7MAY88	9
220H008A63	6	6	0	44	PAINT, FIRST & SECOND COATS	24APR88	30APR88	4MAY88	10MAY88	9
220H007A63	6	6	0	45	PAINT, FIRST & SECOND COATS	26APR88	2MAY88	4MAY88	10MAY88	7
220H006A63	6	6	0	46	PAINT, FIRST & SECOND COATS	28APR88	4MAY88	8MAY88	14MAY88	8
220H005A63	6	6	0	47	PAINT, FIRST & SECOND COATS	2MAY88	8MAY88	11MAY88	17MAY88	8
220H004A63	6	6	0	48	PAINT, FIRST & SECOND COATS	4MAY88	10MAY88	11MAY88	17MAY88	6
221H003A63	6	6	0	49	PAINT, FIRST & SECOND COATS	8MAY88	14MAY88	15MAY88	21MAY88	6
221H002A63	6	6	0	50	PAINT, FIRST & SECOND COATS	10MAY88	16MAY88	18MAY88	24MAY88	7
221H001A63	6	6	0	51	PAINT, FIRST & SECOND COATS	12MAY88	18MAY88	18MAY88	24MAY88	5
211H044A64	10	10	0	01	YARD EARTH WORKS & PLAIN CONCRETE	20DEC87	30DEC87	9JAN88	7JAN88	7
211H043A64	10	10	0	02	YARD EARTH WORKS & PLAIN CONCRETE	20DEC87	30DEC87	2JAN88	12JAN88	10
211H042A64	10	10	0	03	YARD EARTH WORKS & PLAIN CONCRETE	20DEC87	30DEC87	3JAN88	13JAN88	11
213H035A64	10	10	0	04	YARD EARTH WORKS & PLAIN CONCRETE	2JAN88	12JAN88	5JAN88	16JAN88	3
213H036A64	10	10	0	05	YARD EARTH WORKS & PLAIN CONCRETE	2JAN88	12JAN88	7JAN88	18JAN88	5
213H037A64	10	10	0	06	YARD EARTH WORKS & PLAIN CONCRETE	2JAN88	12JAN88	9JAN88	19JAN88	6
213H032A64	10	10	0	07	YARD EARTH WORKS & PLAIN CONCRETE	6JAN88	17JAN88	12JAN88	23JAN88	5
213H033A64	10	10	0	08	YARD EARTH WORKS & PLAIN CONCRETE	10JAN88	20JAN88	13JAN88	24JAN88	3
213H034A64	10	10	0	09	YARD EARTH WORKS & PLAIN CONCRETE	12JAN88	23JAN88	16JAN88	26JAN88	3
223H185A64	10	10	0	10	YARD EARTH WORKS & PLAIN CONCRETE	14JAN88	25JAN88	18JAN88	28JAN88	3
223H186A64	10	10	0	11	YARD EARTH WORKS & PLAIN CONCRETE	17JAN88	27JAN88	19JAN88	30JAN88	2
223H187A64	10	10	0	12	YARD EARTH WORKS & PLAIN CONCRETE	18JAN88	28JAN88	23JAN88	2FEB88	4
222H188A64	10	10	0	13	YARD EARTH WORKS & PLAIN CONCRETE	20JAN88	31JAN88	24JAN88	3FEB88	3
222H189A64	10	10	0	14	YARD EARTH WORKS & PLAIN CONCRETE	23JAN88	2FEB88	26JAN88	6FEB88	3
222H190A64	10	10	0	15	YARD EARTH WORKS & PLAIN CONCRETE	25JAN88	4FEB88	28JAN88	8FEB88	3
221H174A64	10	10	0	16	YARD EARTH WORKS & PLAIN CONCRETE	27JAN88	7FEB88	30JAN88	9FEB88	2
221H175A64	10	10	0	17	YARD EARTH WORKS & PLAIN CONCRETE	30JAN88	9FEB88	2FEB88	13FEB88	3
220H176A64	10	10	0	18	YARD EARTH WORKS & PLAIN CONCRETE	1FEB88	11FEB88	3FEB88	14FEB88	2
220H177A64	10	10	0	19	YARD EARTH WORKS & PLAIN CONCRETE	2FEB88	13FEB88	6FEB88	16FEB88	3
220H178A64	10	10	0	20	YARD EARTH WORKS & PLAIN CONCRETE	4FEB88	15FEB88	8FEB88	18FEB88	3
214H031A64	10	10	0	21	YARD EARTH WORKS & PLAIN CONCRETE	7FEB88	17FEB88	9FEB88	20FEB88	2
214H030A64	10	10	0	22	YARD EARTH WORKS & PLAIN CONCRETE	9FEB88	20FEB88	13FEB88	23FEB88	3
214H029A64	10	10	0	23	YARD EARTH WORKS & PLAIN CONCRETE	11FEB88	22FEB88	14FEB88	24FEB88	2
214H028A64	10	10	0	24	YARD EARTH WORKS & PLAIN CONCRETE	14FEB88	24FEB88	16FEB88	28FEB88	2
215H027A64	10	10	0	25	YARD EARTH WORKS & PLAIN CONCRETE	16FEB88	28FEB88	18FEB88	1MAR88	2
215H026A64	10	10	0	26	YARD EARTH WORKS & PLAIN CONCRETE	17FEB88	29FEB88	20FEB88	2MAR88	2
215H025A64	10	10	0	27	YARD EARTH WORKS & PLAIN CONCRETE	20FEB88	2MAR88	23FEB88	6MAR88	3
215H024A64	10	10	0	28	YARD EARTH WORKS & PLAIN CONCRETE	22FEB88	5MAR88	24FEB88	7MAR88	2
215H023A64	10	10	0	29	YARD EARTH WORKS & PLAIN CONCRETE	24FEB88	7MAR88	28FEB88	9MAR88	2
215H022A64	10	10	0	30	YARD EARTH WORKS & PLAIN CONCRETE	28FEB88	9MAR88	1MAR88	12MAR88	2
216H021A64	10	10	0	31	YARD EARTH WORKS & PLAIN CONCRETE	1MAR88	12MAR88	2MAR88	13MAR88	1
216H020A64	10	10	0	32	YARD EARTH WORKS & PLAIN CONCRETE	3MAR88	14MAR88	6MAR88	16MAR88	2
216H019A64	10	10	0	33	YARD EARTH WORKS & PLAIN CONCRETE	5MAR88	15MAR88	7MAR88	17MAR88	2
216H018A64	10	10	0	34	YARD EARTH WORKS & PLAIN CONCRETE	7MAR88	17MAR88	9MAR88	20MAR88	2
217H017A64	10	10	0	35	YARD EARTH WORKS & PLAIN CONCRETE	9MAR88	20MAR88	12MAR88	22MAR88	2
217H016A64	10	10	0	36	YARD EARTH WORKS & PLAIN CONCRETE	12MAR88	22MAR88	13MAR88	23MAR88	1
218H015A64	10	10	0	37	YARD EARTH WORKS & PLAIN CONCRETE	14MAR88	24MAR88	16MAR88	27MAR88	2
218H014A64	10	10	0	38	YARD EARTH WORKS & PLAIN CONCRETE	16MAR88	27MAR88	17MAR88	29MAR88	1
218H013A64	10	10	0	39	YARD EARTH WORKS & PLAIN CONCRETE	19MAR88	30MAR88	20MAR88	31MAR88	1

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 34

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
219H012A64	10	10	0	40	YARD EARTH WORKS & PLAIN CONCRETE	20MAR88	31MAR88	22MAR88	3APR88	2
219H011A64	10	10	0	41	YARD EARTH WORKS & PLAIN CONCRETE	22MAR88	3APR88	23MAR88	4APR88	1
219H010A64	10	10	0	42	YARD EARTH WORKS & PLAIN CONCRETE	24MAR88	5APR88	27MAR88	7APR88	2
220H009A64	10	10	0	43	YARD EARTH WORKS & PLAIN CONCRETE	27MAR88	7APR88	29MAR88	9APR88	1
220H008A64	10	10	0	44	YARD EARTH WORKS & PLAIN CONCRETE	30MAR88	10APR88	31MAR88	11APR88	1
220H007A64	10	10	0	45	YARD EARTH WORKS & PLAIN CONCRETE	2APR88	12APR88	3APR88	13APR88	1
220H006A64	10	10	0	46	YARD EARTH WORKS & PLAIN CONCRETE	4APR88	14APR88	4APR88	14APR88	0
220H005A64	10	10	0	47	YARD EARTH WORKS & PLAIN CONCRETE	5APR88	16APR88	7APR88	18APR88	2
220H004A64	10	10	0	48	YARD EARTH WORKS & PLAIN CONCRETE	7APR88	18APR88	9APR88	19APR88	1
221H003A64	10	10	0	49	YARD EARTH WORKS & PLAIN CONCRETE	10APR88	20APR88	11APR88	21APR88	1
221H002A64	10	10	0	50	YARD EARTH WORKS & PLAIN CONCRETE	12APR88	23APR88	13APR88	24APR88	1
221H001A64	10	10	0	51	YARD EARTH WORKS & PLAIN CONCRETE	14APR88	25APR88	14APR88	25APR88	0
211H044A65	2	2	0	01	INTERNAL MAIN CABLES	20DEC87	21DEC87	10FEB88	11FEB88	44
211H043A65	2	2	0	02	INTERNAL MAIN CABLES	22DEC87	23DEC87	13FEB88	14FEB88	44
211H042A65	2	2	0	03	INTERNAL MAIN CABLES	24DEC87	26DEC87	15FEB88	16FEB88	44
213H035A65	2	2	0	04	INTERNAL MAIN CABLES	2JAN88	3JAN88	17FEB88	18FEB88	40
213H036A65	2	2	0	05	INTERNAL MAIN CABLES	4JAN88	5JAN88	20FEB88	21FEB88	40
213H037A65	2	2	0	06	INTERNAL MAIN CABLES	6JAN88	7JAN88	22FEB88	23FEB88	40
213H032A65	2	2	0	07	INTERNAL MAIN CABLES	9JAN88	10JAN88	24FEB88	27FEB88	40
213H031A65	2	2	0	08	INTERNAL MAIN CABLES	11JAN88	12JAN88	28FEB88	29FEB88	40
213H034A65	2	2	0	09	INTERNAL MAIN CABLES	13JAN88	14JAN88	1MAR88	2MAR88	40
223H185A65	2	2	0	10	INTERNAL MAIN CABLES	16JAN88	17JAN88	3MAR88	5MAR88	40
223H186A65	2	2	0	11	INTERNAL MAIN CABLES	18JAN88	19JAN88	6MAR88	7MAR88	40
223H187A65	2	2	0	12	INTERNAL MAIN CABLES	20JAN88	21JAN88	8MAR88	9MAR88	40
222H188A65	2	2	0	13	INTERNAL MAIN CABLES	23JAN88	24JAN88	10MAR88	12MAR88	40
222H189A65	2	2	0	14	INTERNAL MAIN CABLES	25JAN88	26JAN88	13MAR88	14MAR88	40
222H190A65	2	2	0	15	INTERNAL MAIN CABLES	27JAN88	28JAN88	15MAR88	16MAR88	40
321H174A65	2	2	0	16	INTERNAL MAIN CABLES	30JAN88	31JAN88	17MAR88	19MAR88	40
321H175A65	2	2	0	17	INTERNAL MAIN CABLES	1FEB88	2FEB88	20MAR88	21MAR88	40
320H176A65	2	2	0	18	INTERNAL MAIN CABLES	3FEB88	4FEB88	22MAR88	23MAR88	40
320H177A65	2	2	0	19	INTERNAL MAIN CABLES	6FEB88	7FEB88	24MAR88	26MAR88	40
320H178A65	2	2	0	20	INTERNAL MAIN CABLES	8FEB88	9FEB88	27MAR88	29MAR88	40
214H031A65	2	2	0	21	INTERNAL MAIN CABLES	10FEB88	11FEB88	30MAR88	31MAR88	40
214H030A65	2	2	0	22	INTERNAL MAIN CABLES	13FEB88	14FEB88	2APR88	3APR88	40
214H029A65	2	2	0	23	INTERNAL MAIN CABLES	15FEB88	16FEB88	4APR88	5APR88	40
214H028A65	2	2	0	24	INTERNAL MAIN CABLES	17FEB88	18FEB88	6APR88	7APR88	40
215H027A65	2	2	0	25	INTERNAL MAIN CABLES	20FEB88	21FEB88	9APR88	10APR88	40
215H026A65	2	2	0	26	INTERNAL MAIN CABLES	22FEB88	23FEB88	11APR88	12APR88	40
215H025A65	2	2	0	27	INTERNAL MAIN CABLES	24FEB88	27FEB88	13APR88	14APR88	40
215H024A65	2	2	0	28	INTERNAL MAIN CABLES	28FEB88	29FEB88	16APR88	17APR88	40
215H023A65	2	2	0	29	INTERNAL MAIN CABLES	1MAR88	2MAR88	18APR88	19APR88	40
215H022A65	2	2	0	30	INTERNAL MAIN CABLES	3MAR88	5MAR88	20APR88	21APR88	40
216H021A65	2	2	0	31	INTERNAL MAIN CABLES	6MAR88	7MAR88	23APR88	24APR88	40
216H020A65	2	2	0	32	INTERNAL MAIN CABLES	8MAR88	9MAR88	25APR88	26APR88	40
216H019A65	2	2	0	33	INTERNAL MAIN CABLES	10MAR88	12MAR88	27APR88	28APR88	40
216H018A65	2	2	0	34	INTERNAL MAIN CABLES	13MAR88	14MAR88	30APR88	1MAY88	40
217H017A65	2	2	0	35	INTERNAL MAIN CABLES	15MAR88	16MAR88	2MAY88	3MAY88	40
217H016A65	2	2	0	36	INTERNAL MAIN CABLES	20MAR88	21MAR88	4MAY88	5MAY88	38
218H015A65	2	2	0	37	INTERNAL MAIN CABLES	24MAR88	26MAR88	7MAY88	8MAY88	36
218H014A65	2	2	0	38	INTERNAL MAIN CABLES	30MAR88	31MAR88	9MAY88	10MAY88	34
218H013A65	2	2	0	39	INTERNAL MAIN CABLES	4APR88	5APR88	11MAY88	12MAY88	32
219H012A65	2	2	0	40	INTERNAL MAIN CABLES	9APR88	10APR88	14MAY88	15MAY88	30
219H011A65	2	2	0	41	INTERNAL MAIN CABLES	13APR88	14APR88	16MAY88	17MAY88	28
219H010A65	2	2	0	42	INTERNAL MAIN CABLES	18APR88	19APR88	18MAY88	19MAY88	26
220H009A65	2	2	0	43	INTERNAL MAIN CABLES	23APR88	24APR88	21MAY88	22MAY88	24
220H008A65	2	2	0	44	INTERNAL MAIN CABLES	27APR88	28APR88	23MAY88	24MAY88	22
220H007A65	2	2	0	45	INTERNAL MAIN CABLES	2MAY88	3MAY88	25MAY88	26MAY88	20
220H006A65	2	2	0	46	INTERNAL MAIN CABLES	7MAY88	8MAY88	28MAY88	29MAY88	18
220H005A65	2	2	0	47	INTERNAL MAIN CABLES	11MAY88	12MAY88	31MAY88	1JUN88	16
220H004A65	2	2	0	48	INTERNAL MAIN CABLES	16MAY88	17MAY88	3JUN88	4JUN88	14
221H003A65	2	2	0	49	INTERNAL MAIN CABLES	21MAY88	22MAY88	5JUN88	6JUN88	12
221H002A65	2	2	0	50	INTERNAL MAIN CABLES	25MAY88	26MAY88	7JUN88	8JUN88	10
221H001A65	2	2	0	51	INTERNAL MAIN CABLES	31MAY88	1JUN88	9JUN88	11JUN88	8
211H044A66	3	3	0	01	ELECTRICAL HOUSE CONNECTION	20DEC87	22DEC87	16MAR88	19MAR88	73
211H043A66	3	3	0	02	ELECTRICAL HOUSE CONNECTION	20DEC87	22DEC87	20MAR88	22MAR88	76
211H042A66	3	3	0	03	ELECTRICAL HOUSE CONNECTION	23DEC87	26DEC87	20MAR88	22MAR88	73
213H035A66	3	3	0	04	ELECTRICAL HOUSE CONNECTION	2JAN88	4JAN88	23MAR88	26MAR88	69
213H036A66	3	3	0	05	ELECTRICAL HOUSE CONNECTION	2JAN88	4JAN88	23MAR88	26MAR88	69
213H037A66	3	3	0	06	ELECTRICAL HOUSE CONNECTION	5JAN88	7JAN88	27MAR88	30MAR88	69
213H032A66	3	3	0	07	ELECTRICAL HOUSE CONNECTION	6JAN88	9JAN88	27MAR88	30MAR88	68
213H031A66	3	3	0	08	ELECTRICAL HOUSE CONNECTION	10JAN88	12JAN88	31MAR88	3APR88	68
213H034A66	3	3	0	09	ELECTRICAL HOUSE CONNECTION	12JAN88	14JAN88	31MAR88	3APR88	66
323H185A66	3	3	0	10	ELECTRICAL HOUSE CONNECTION	14JAN88	17JAN88	4APR88	6APR88	67
323H186A66	3	3	0	11	ELECTRICAL HOUSE CONNECTION	17JAN88	19JAN88	4APR88	6APR88	65
323H187A66	3	3	0	12	ELECTRICAL HOUSE CONNECTION	18JAN88	20JAN88	7APR88	10APR88	67
322H188A66	3	3	0	13	ELECTRICAL HOUSE CONNECTION	20JAN88	23JAN88	7APR88	10APR88	65
322H189A66	3	3	0	14	ELECTRICAL HOUSE CONNECTION	23JAN88	25JAN88	11APR88	13APR88	66
322H190A66	3	3	0	15	ELECTRICAL HOUSE CONNECTION	25JAN88	27JAN88	11APR88	13APR88	64
321H174A66	3	3	0	16	ELECTRICAL HOUSE CONNECTION	27JAN88	30JAN88	14APR88	17APR88	65
321H175A66	3	3	0	17	ELECTRICAL HOUSE CONNECTION	30JAN88	1FEB88	14APR88	17APR88	63
320H176A66	3	3	0	18	ELECTRICAL HOUSE CONNECTION	1FEB88	3FEB88	18APR88	20APR88	64
320H177A66	3	3	0	19	ELECTRICAL HOUSE CONNECTION	3FEB88	4FEB88	18APR88	20APR88	63
320H178A66	3	3	0	20	ELECTRICAL HOUSE CONNECTION	4FEB88	7FEB88	21APR88	24APR88	64
214H031A66	3	3	0	21	ELECTRICAL HOUSE CONNECTION	7FEB88	9FEB88	21APR88	24APR88	62
214H030A66	3	3	0	22	ELECTRICAL HOUSE CONNECTION	9FEB88	11FEB88	25APR88	27APR88	63
214H029A66	3	3	0	23	ELECTRICAL HOUSE CONNECTION	11FEB88	14FEB88	25APR88	27APR88	61
214H028A66	3	3	0	24	ELECTRICAL HOUSE CONNECTION	14FEB88	16FEB88	28APR88	1MAY88	62
215H027A66	3	3	0	25	ELECTRICAL HOUSE CONNECTION	16FEB88	18FEB88	28APR88	1MAY88	60
215H026A66	3	3	0	26	ELECTRICAL HOUSE CONNECTION	17FEB88	20FEB88	2MAY88	4MAY88	62
215H025A66	3	3	0	27	ELECTRICAL HOUSE CONNECTION	20FEB88	22FEB88	2MAY88	4MAY88	60
215H024A66	3	3	0	28	ELECTRICAL HOUSE CONNECTION	22FEB88	24FEB88	5MAY88	8MAY88	61
215H023A66	3	3	0	29	ELECTRICAL HOUSE CONNECTION	24FEB88	28FEB88	5MAY88	9MAY88	59
215H022A66	3	3	0	30	ELECTRICAL HOUSE CONNECTION	28FEB88	1MAR88	9MAY88	11MAY88	60
216H021A66	3	3	0	31	ELECTRICAL HOUSE CONNECTION	1MAR88	3MAR88	9MAY88	11MAY88	58
216H020A66	3	3	0	32	ELECTRICAL HOUSE CONNECTION	3MAR88	6MAR88	12MAY88	15MAY88	59
216H019A66	3	3	0	33	ELECTRICAL HOUSE CONNECTION	6MAR88	8MAR88	12MAY88	15MAY88	57

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG99

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Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 35

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
216H018A66	3	3	0	34	ELECTRICAL HOUSE CONNECTION	10MAR88	13MAR88	16MAY88	18MAY88	56
217H017A66	3	3	0	35	ELECTRICAL HOUSE CONNECTION	15MAR88	17MAR88	16MAY88	18MAY88	52
217H016A66	3	3	0	36	ELECTRICAL HOUSE CONNECTION	20MAR88	22MAR88	19MAY88	22MAY88	51
218H015A66	3	3	0	37	ELECTRICAL HOUSE CONNECTION	24MAR88	27MAR88	19MAY88	22MAY88	47
218H014A66	3	3	0	38	ELECTRICAL HOUSE CONNECTION	30MAR88	2APR88	23MAY88	25MAY88	46
218H013A66	3	3	0	39	ELECTRICAL HOUSE CONNECTION	4APR88	6APR88	23MAY88	25MAY88	42
219H012A66	3	3	0	40	ELECTRICAL HOUSE CONNECTION	9APR88	11APR88	26MAY88	29MAY88	41
219H011A66	3	3	0	41	ELECTRICAL HOUSE CONNECTION	13APR88	16APR88	26MAY88	29MAY88	37
219H010A66	3	3	0	42	ELECTRICAL HOUSE CONNECTION	18APR88	20APR88	31MAY88	2JUN88	36
220H009A66	3	3	0	43	ELECTRICAL HOUSE CONNECTION	23APR88	25APR88	31MAY88	2JUN88	32
220H008A66	3	3	0	44	ELECTRICAL HOUSE CONNECTION	27APR88	30APR88	4JUN88	6JUN88	31
220H007A66	3	3	0	45	ELECTRICAL HOUSE CONNECTION	3MAY88	4MAY88	4JUN88	6JUN88	27
220H006A66	3	3	0	46	ELECTRICAL HOUSE CONNECTION	7MAY88	9MAY88	7JUN88	9JUN88	26
220H005A66	3	3	0	47	ELECTRICAL HOUSE CONNECTION	11MAY88	14MAY88	7JUN88	9JUN88	22
220H004A66	3	3	0	48	ELECTRICAL HOUSE CONNECTION	16MAY88	18MAY88	11JUN88	13JUN88	21
221H003A66	3	3	0	49	ELECTRICAL HOUSE CONNECTION	21MAY88	23MAY88	11JUN88	13JUN88	17
221H002A66	3	3	0	50	ELECTRICAL HOUSE CONNECTION	25MAY88	28MAY88	14JUN88	16JUN88	16
221H001A66	3	3	0	51	ELECTRICAL HOUSE CONNECTION	31MAY88	2JUN88	14JUN88	16JUN88	12
211H044A67	3	3	0	01	IRONMONGERY WORKS FOR WOODEN DOORS	29DEC87	2JAN88	1MAR88	3MAR88	52
211H043A67	3	3	0	02	IRONMONGERY WORKS FOR WOODEN DOORS	29DEC87	2JAN88	3MAR88	6MAR88	54
211H042A67	3	3	0	03	IRONMONGERY WORKS FOR WOODEN DOORS	4JAN88	6JAN88	5MAR88	7MAR88	51
211H035A67	3	3	0	04	IRONMONGERY WORKS FOR WOODEN DOORS	11JAN88	13JAN88	7MAR88	9MAR88	47
211H036A67	3	3	0	05	IRONMONGERY WORKS FOR WOODEN DOORS	11JAN88	13JAN88	8MAR88	10MAR88	48
211H037A67	3	3	0	06	IRONMONGERY WORKS FOR WOODEN DOORS	16JAN88	18JAN88	10MAR88	13MAR88	46
211H032A67	3	3	0	07	IRONMONGERY WORKS FOR WOODEN DOORS	19JAN88	21JAN88	12MAR88	14MAR88	44
211H033A67	3	3	0	08	IRONMONGERY WORKS FOR WOODEN DOORS	21JAN88	24JAN88	14MAR88	16MAR88	44
211H034A67	3	3	0	09	IRONMONGERY WORKS FOR WOODEN DOORS	25JAN88	27JAN88	15MAR88	17MAR88	42
223H185A67	3	3	0	10	IRONMONGERY WORKS FOR WOODEN DOORS	27JAN88	30JAN88	17MAR88	20MAR88	42
223H186A67	3	3	0	11	IRONMONGERY WORKS FOR WOODEN DOORS	30JAN88	1FEB88	19MAR88	21MAR88	41
223H187A67	3	3	0	12	IRONMONGERY WORKS FOR WOODEN DOORS	2FEB88	4FEB88	21MAR88	23MAR88	40
222H188A67	3	3	0	13	IRONMONGERY WORKS FOR WOODEN DOORS	4FEB88	7FEB88	22MAR88	24MAR88	39
222H189A67	3	3	0	14	IRONMONGERY WORKS FOR WOODEN DOORS	8FEB88	10FEB88	24MAR88	27MAR88	38
222H190A67	3	3	0	15	IRONMONGERY WORKS FOR WOODEN DOORS	10FEB88	13FEB88	26MAR88	29MAR88	37
221H174A67	3	3	0	16	IRONMONGERY WORKS FOR WOODEN DOORS	13FEB88	15FEB88	29MAR88	31MAR88	37
221H175A67	3	3	0	17	IRONMONGERY WORKS FOR WOODEN DOORS	16FEB88	18FEB88	30MAR88	2APR88	35
220H176A67	3	3	0	18	IRONMONGERY WORKS FOR WOODEN DOORS	18FEB88	21FEB88	2APR88	4APR88	35
220H177A67	3	3	0	19	IRONMONGERY WORKS FOR WOODEN DOORS	22FEB88	24FEB88	3APR88	5APR88	33
220H178A67	3	3	0	20	IRONMONGERY WORKS FOR WOODEN DOORS	24FEB88	28FEB88	5APR88	7APR88	33
214H031A67	3	3	0	21	IRONMONGERY WORKS FOR WOODEN DOORS	28FEB88	1MAR88	6APR88	9APR88	32
214H030A67	3	3	0	22	IRONMONGERY WORKS FOR WOODEN DOORS	2MAR88	5MAR88	9APR88	11APR88	31
214H029A67	3	3	0	23	IRONMONGERY WORKS FOR WOODEN DOORS	5MAR88	7MAR88	10APR88	12APR88	30
214H028A67	3	3	0	24	IRONMONGERY WORKS FOR WOODEN DOORS	8MAR88	10MAR88	12APR88	14APR88	29
215H027A67	3	3	0	25	IRONMONGERY WORKS FOR WOODEN DOORS	10MAR88	13MAR88	13APR88	16APR88	28
215H026A67	3	3	0	26	IRONMONGERY WORKS FOR WOODEN DOORS	13MAR88	15MAR88	16APR88	18APR88	28
215H025A67	3	3	0	27	IRONMONGERY WORKS FOR WOODEN DOORS	16MAR88	19MAR88	17APR88	19APR88	26
215H024A67	3	3	0	28	IRONMONGERY WORKS FOR WOODEN DOORS	19MAR88	21MAR88	19APR88	21APR88	26
215H023A67	3	3	0	29	IRONMONGERY WORKS FOR WOODEN DOORS	22MAR88	24MAR88	20APR88	23APR88	24
215H022A67	3	3	0	30	IRONMONGERY WORKS FOR WOODEN DOORS	24MAR88	27MAR88	23APR88	25APR88	24
216H021A67	3	3	0	31	IRONMONGERY WORKS FOR WOODEN DOORS	27MAR88	30MAR88	24APR88	26APR88	23
216H020A67	3	3	0	32	IRONMONGERY WORKS FOR WOODEN DOORS	31MAR88	3APR88	26APR88	28APR88	22
216H019A67	3	3	0	33	IRONMONGERY WORKS FOR WOODEN DOORS	3APR88	5APR88	27APR88	30APR88	21
216H018A67	3	3	0	34	IRONMONGERY WORKS FOR WOODEN DOORS	6APR88	9APR88	30APR88	2MAY88	20
217H017A67	3	3	0	35	IRONMONGERY WORKS FOR WOODEN DOORS	9APR88	11APR88	1MAY88	3MAY88	19
217H016A67	3	3	0	36	IRONMONGERY WORKS FOR WOODEN DOORS	11APR88	13APR88	3MAY88	5MAY88	19
218H015A67	3	3	0	37	IRONMONGERY WORKS FOR WOODEN DOORS	14APR88	17APR88	4MAY88	7MAY88	17
218H014A67	3	3	0	38	IRONMONGERY WORKS FOR WOODEN DOORS	17APR88	19APR88	7MAY88	9MAY88	17
218H013A67	3	3	0	39	IRONMONGERY WORKS FOR WOODEN DOORS	20APR88	23APR88	8MAY88	10MAY88	15
219H012A67	3	3	0	40	IRONMONGERY WORKS FOR WOODEN DOORS	23APR88	25APR88	10MAY88	12MAY88	15
219H011A67	3	3	0	41	IRONMONGERY WORKS FOR WOODEN DOORS	25APR88	27APR88	11MAY88	14MAY88	14
219H010A67	3	3	0	42	IRONMONGERY WORKS FOR WOODEN DOORS	28APR88	1MAY88	14MAY88	16MAY88	13
220H009A67	3	3	0	43	IRONMONGERY WORKS FOR WOODEN DOORS	1MAY88	3MAY88	15MAY88	17MAY88	12
220H008A67	3	3	0	44	IRONMONGERY WORKS FOR WOODEN DOORS	4MAY88	7MAY88	17MAY88	19MAY88	11
220H007A67	3	3	0	45	IRONMONGERY WORKS FOR WOODEN DOORS	7MAY88	9MAY88	18MAY88	21MAY88	10
220H006A67	3	3	0	46	IRONMONGERY WORKS FOR WOODEN DOORS	9MAY88	11MAY88	21MAY88	23MAY88	10
220H005A67	3	3	0	47	IRONMONGERY WORKS FOR WOODEN DOORS	12MAY88	15MAY88	22MAY88	24MAY88	8
220H004A67	3	3	0	48	IRONMONGERY WORKS FOR WOODEN DOORS	15MAY88	17MAY88	24MAY88	26MAY88	8
221H003A67	3	3	0	49	IRONMONGERY WORKS FOR WOODEN DOORS	18MAY88	21MAY88	25MAY88	28MAY88	6
221H002A67	3	3	0	50	IRONMONGERY WORKS FOR WOODEN DOORS	21MAY88	23MAY88	29MAY88	1JUN88	7
221H001A67	3	3	0	51	IRONMONGERY WORKS FOR WOODEN DOORS	23MAY88	25MAY88	29MAY88	1JUN88	5
211H044A68	4	4	0	01	INTERNAL ELECTRICAL FITTINGS	29DEC87	3JAN88	30JAN88	2FEB88	26
211H043A68	4	4	0	02	INTERNAL ELECTRICAL FITTINGS	29DEC87	3JAN88	3FEB88	7FEB88	30
211H042A68	4	4	0	03	INTERNAL ELECTRICAL FITTINGS	4JAN88	7JAN88	3FEB88	7FEB88	26
211H035A68	4	4	0	04	INTERNAL ELECTRICAL FITTINGS	11JAN88	14JAN88	8FEB88	11FEB88	24
211H036A68	4	4	0	05	INTERNAL ELECTRICAL FITTINGS	11JAN88	14JAN88	8FEB88	11FEB88	24
211H037A68	4	4	0	06	INTERNAL ELECTRICAL FITTINGS	16JAN88	19JAN88	13FEB88	16FEB88	24
211H032A68	4	4	0	07	INTERNAL ELECTRICAL FITTINGS	19JAN88	23JAN88	13FEB88	16FEB88	21
211H033A68	4	4	0	08	INTERNAL ELECTRICAL FITTINGS	21JAN88	25JAN88	17FEB88	21FEB88	23
211H034A68	4	4	0	09	INTERNAL ELECTRICAL FITTINGS	25JAN88	28JAN88	17FEB88	21FEB88	20
223H185A68	4	4	0	10	INTERNAL ELECTRICAL FITTINGS	27JAN88	31JAN88	22FEB88	27FEB88	22
223H186A68	4	4	0	11	INTERNAL ELECTRICAL FITTINGS	30JAN88	2FEB88	22FEB88	27FEB88	20
223H187A68	4	4	0	12	INTERNAL ELECTRICAL FITTINGS	2FEB88	6FEB88	28FEB88	2MAR88	21
222H188A68	4	4	0	13	INTERNAL ELECTRICAL FITTINGS	4FEB88	8FEB88	28FEB88	2MAR88	19
222H189A68	4	4	0	14	INTERNAL ELECTRICAL FITTINGS	8FEB88	11FEB88	3MAR88	7MAR88	20
222H190A68	4	4	0	15	INTERNAL ELECTRICAL FITTINGS	10FEB88	14FEB88	3MAR88	7MAR88	18
221H174A68	4	4	0	16	INTERNAL ELECTRICAL FITTINGS	13FEB88	16FEB88	8MAR88	12MAR88	20
221H175A68	4	4	0	17	INTERNAL ELECTRICAL FITTINGS	16FEB88	20FEB88	8MAR88	12MAR88	17
220H176A68	4	4	0	18	INTERNAL ELECTRICAL FITTINGS	18FEB88	22FEB88	13MAR88	16MAR88	19
220H177A68	4	4	0	19	INTERNAL ELECTRICAL FITTINGS	22FEB88	27FEB88	13MAR88	16MAR88	16
220H178A68	4	4	0	20	INTERNAL ELECTRICAL FITTINGS	24FEB88	29FEB88	17MAR88	21MAR88	18
214H031A68	4	4	0	21	INTERNAL ELECTRICAL FITTINGS	28FEB88	2MAR88	17MAR88	21MAR88	16
214H030A68	4	4	0	22	INTERNAL ELECTRICAL FITTINGS	2MAR88	6MAR88	22MAR88	26MAR88	17
214H029A68	4	4	0	23	INTERNAL ELECTRICAL FITTINGS	5MAR88	8MAR88	22MAR88	26MAR88	15
214H028A68	4	4	0	24	INTERNAL ELECTRICAL FITTINGS	8MAR88	12MAR88	27MAR88	31MAR88	16
215H027A68	4	4	0	25	INTERNAL ELECTRICAL FITTINGS	10MAR88	14MAR88	27MAR88	31MAR88	14
215H026A68	4	4	0	26	INTERNAL ELECTRICAL FITTINGS	13MAR88	16MAR88	2APR88	5APR88	16
215H025A68	4	4	0	27	INTERNAL ELECTRICAL FITTINGS	16MAR88	20MAR88	2APR88	5APR88	13

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 36

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
215H024A68	4	4	0	28	INTERNAL ELECTRICAL FITTINGS	19MAR88	22MAR88	6APR88	10APR88	15
215H023A68	4	4	0	29	INTERNAL ELECTRICAL FITTINGS	22MAR88	26MAR88	6APR88	10APR88	12
215H022A68	4	4	0	30	INTERNAL ELECTRICAL FITTINGS	24MAR88	29MAR88	11APR88	14APR88	14
216H021A68	4	4	0	31	INTERNAL ELECTRICAL FITTINGS	27MAR88	31MAR88	11APR88	14APR88	12
216H020A68	4	4	0	32	INTERNAL ELECTRICAL FITTINGS	31MAR88	4APR88	16APR88	19APR88	13
216H019A68	4	4	0	33	INTERNAL ELECTRICAL FITTINGS	3APR88	6APR88	16APR88	19APR88	11
216H018A68	4	4	0	34	INTERNAL ELECTRICAL FITTINGS	6APR88	10APR88	20APR88	24APR88	12
217H017A68	4	4	0	35	INTERNAL ELECTRICAL FITTINGS	9APR88	12APR88	20APR88	24APR88	10
217H016A68	4	4	0	36	INTERNAL ELECTRICAL FITTINGS	11APR88	14APR88	25APR88	28APR88	12
218H015A68	4	4	0	37	INTERNAL ELECTRICAL FITTINGS	14APR88	18APR88	25APR88	28APR88	9
218H014A68	4	4	0	38	INTERNAL ELECTRICAL FITTINGS	17APR88	20APR88	30APR88	3MAY88	11
218H013A68	4	4	0	39	INTERNAL ELECTRICAL FITTINGS	20APR88	24APR88	30APR88	3MAY88	8
219H012A68	4	4	0	40	INTERNAL ELECTRICAL FITTINGS	23APR88	26APR88	4MAY88	8MAY88	10
219H011A68	4	4	0	41	INTERNAL ELECTRICAL FITTINGS	25APR88	28APR88	4MAY88	8MAY88	9
219H010A68	4	4	0	42	INTERNAL ELECTRICAL FITTINGS	28APR88	2MAY88	9MAY88	12MAY88	8
220H009A68	4	4	0	43	INTERNAL ELECTRICAL FITTINGS	1MAY88	4MAY88	9MAY88	12MAY88	7
220H008A68	4	4	0	44	INTERNAL ELECTRICAL FITTINGS	4MAY88	8MAY88	14MAY88	17MAY88	8
220H007A68	4	4	0	45	INTERNAL ELECTRICAL FITTINGS	7MAY88	10MAY88	14MAY88	17MAY88	6
220H006A68	4	4	0	46	INTERNAL ELECTRICAL FITTINGS	9MAY88	12MAY88	18MAY88	22MAY88	8
220H005A68	4	4	0	47	INTERNAL ELECTRICAL FITTINGS	12MAY88	16MAY88	18MAY88	22MAY88	5
220H004A68	4	4	0	48	INTERNAL ELECTRICAL FITTINGS	15MAY88	19MAY88	18MAY88	22MAY88	7
221H003A68	4	4	0	49	INTERNAL ELECTRICAL FITTINGS	18MAY88	22MAY88	23MAY88	26MAY88	4
221H002A68	4	4	0	50	INTERNAL ELECTRICAL FITTINGS	21MAY88	24MAY88	28MAY88	1JUN88	6
221H001A68	4	4	0	51	INTERNAL ELECTRICAL FITTINGS	23MAY88	26MAY88	28MAY88	1JUN88	4
221H044A69	6	6	0	01	SANITARY FIXTURES & ACCESSORIES	29DEC87	5JAN88	28JAN88	3FEB88	25
221H043A69	6	6	0	02	SANITARY FIXTURES & ACCESSORIES	29DEC87	5JAN88	1FEB88	7FEB88	20
221H042A69	6	6	0	03	SANITARY FIXTURES & ACCESSORIES	4JAN88	10JAN88	1FEB88	7FEB88	24
221H041A69	6	6	0	04	SANITARY FIXTURES & ACCESSORIES	11JAN88	17JAN88	4FEB88	10FEB88	21
221H035A69	6	6	0	05	SANITARY FIXTURES & ACCESSORIES	11JAN88	17JAN88	8FEB88	14FEB88	24
221H034A69	6	6	0	06	SANITARY FIXTURES & ACCESSORIES	14JAN88	21JAN88	8FEB88	14FEB88	20
221H033A69	6	6	0	07	SANITARY FIXTURES & ACCESSORIES	19JAN88	25JAN88	11FEB88	17FEB88	20
221H032A69	6	6	0	08	SANITARY FIXTURES & ACCESSORIES	21JAN88	27JAN88	15FEB88	21FEB88	21
221H031A69	6	6	0	09	SANITARY FIXTURES & ACCESSORIES	25JAN88	31JAN88	15FEB88	21FEB88	18
221H030A69	6	6	0	10	SANITARY FIXTURES & ACCESSORIES	27JAN88	2FEB88	18FEB88	24FEB88	19
221H029A69	6	6	0	11	SANITARY FIXTURES & ACCESSORIES	30JAN88	4FEB88	22FEB88	29FEB88	20
221H028A69	6	6	0	12	SANITARY FIXTURES & ACCESSORIES	2FEB88	8FEB88	22FEB88	29FEB88	17
221H027A69	6	6	0	13	SANITARY FIXTURES & ACCESSORIES	4FEB88	10FEB88	27FEB88	3MAR88	18
221H026A69	6	6	0	14	SANITARY FIXTURES & ACCESSORIES	8FEB88	14FEB88	1MAR88	7MAR88	18
221H025A69	6	6	0	15	SANITARY FIXTURES & ACCESSORIES	10FEB88	16FEB88	1MAR88	7MAR88	16
221H024A69	6	6	0	16	SANITARY FIXTURES & ACCESSORIES	13FEB88	18FEB88	5MAR88	10MAR88	17
221H023A69	6	6	0	17	SANITARY FIXTURES & ACCESSORIES	16FEB88	22FEB88	8MAR88	14MAR88	17
221H022A69	6	6	0	18	SANITARY FIXTURES & ACCESSORIES	18FEB88	24FEB88	8MAR88	14MAR88	15
221H021A69	6	6	0	19	SANITARY FIXTURES & ACCESSORIES	22FEB88	29FEB88	12MAR88	17MAR88	15
221H020A69	6	6	0	20	SANITARY FIXTURES & ACCESSORIES	24FEB88	2MAR88	15MAR88	21MAR88	16
221H019A69	6	6	0	21	SANITARY FIXTURES & ACCESSORIES	28FEB88	5MAR88	15MAR88	21MAR88	14
221H018A69	6	6	0	22	SANITARY FIXTURES & ACCESSORIES	2MAR88	9MAR88	19MAR88	24MAR88	14
221H017A69	6	6	0	23	SANITARY FIXTURES & ACCESSORIES	5MAR88	10MAR88	22MAR88	29MAR88	15
221H016A69	6	6	0	24	SANITARY FIXTURES & ACCESSORIES	8MAR88	14MAR88	22MAR88	29MAR88	12
221H015A69	6	6	0	25	SANITARY FIXTURES & ACCESSORIES	10MAR88	16MAR88	26MAR88	2APR88	13
221H014A69	6	6	0	26	SANITARY FIXTURES & ACCESSORIES	13MAR88	19MAR88	30MAR88	5APR88	14
221H013A69	6	6	0	27	SANITARY FIXTURES & ACCESSORIES	16MAR88	22MAR88	30MAR88	5APR88	11
221H012A69	6	6	0	28	SANITARY FIXTURES & ACCESSORIES	19MAR88	24MAR88	3APR88	9APR88	12
221H011A69	6	6	0	29	SANITARY FIXTURES & ACCESSORIES	22MAR88	29MAR88	6APR88	12APR88	12
221H010A69	6	6	0	30	SANITARY FIXTURES & ACCESSORIES	24MAR88	31MAR88	6APR88	12APR88	10
221H009A69	6	6	0	31	SANITARY FIXTURES & ACCESSORIES	27MAR88	3APR88	10APR88	16APR88	11
221H008A69	6	6	0	32	SANITARY FIXTURES & ACCESSORIES	31MAR88	6APR88	13APR88	19APR88	11
221H007A69	6	6	0	33	SANITARY FIXTURES & ACCESSORIES	3APR88	9APR88	13APR88	19APR88	9
221H006A69	6	6	0	34	SANITARY FIXTURES & ACCESSORIES	6APR88	12APR88	17APR88	23APR88	9
221H005A69	6	6	0	35	SANITARY FIXTURES & ACCESSORIES	9APR88	14APR88	20APR88	26APR88	10
221H004A69	6	6	0	36	SANITARY FIXTURES & ACCESSORIES	11APR88	17APR88	20APR88	26APR88	8
221H003A69	6	6	0	37	SANITARY FIXTURES & ACCESSORIES	14APR88	20APR88	24APR88	30APR88	8
221H002A69	6	6	0	38	SANITARY FIXTURES & ACCESSORIES	17APR88	23APR88	27APR88	3MAY88	9
221H001A69	6	6	0	39	SANITARY FIXTURES & ACCESSORIES	20APR88	26APR88	27APR88	3MAY88	6
221H011A69	6	6	0	40	SANITARY FIXTURES & ACCESSORIES	23APR88	28APR88	1MAY88	7MAY88	7
221H010A69	6	6	0	41	SANITARY FIXTURES & ACCESSORIES	25APR88	1MAY88	4MAY88	10MAY88	8
221H009A69	6	6	0	42	SANITARY FIXTURES & ACCESSORIES	28APR88	4MAY88	4MAY88	10MAY88	5
221H008A69	6	6	0	43	SANITARY FIXTURES & ACCESSORIES	1MAY88	7MAY88	8MAY88	14MAY88	6
221H007A69	6	6	0	44	SANITARY FIXTURES & ACCESSORIES	4MAY88	10MAY88	11MAY88	17MAY88	5
221H006A69	6	6	0	45	SANITARY FIXTURES & ACCESSORIES	7MAY88	12MAY88	11MAY88	17MAY88	4
221H005A69	6	6	0	46	SANITARY FIXTURES & ACCESSORIES	9MAY88	15MAY88	15MAY88	21MAY88	5
221H004A69	6	6	0	47	SANITARY FIXTURES & ACCESSORIES	12MAY88	18MAY88	18MAY88	24MAY88	5
221H003A69	6	6	0	48	SANITARY FIXTURES & ACCESSORIES	15MAY88	21MAY88	18MAY88	24MAY88	3
221H002A69	6	6	0	49	SANITARY FIXTURES & ACCESSORIES	18MAY88	24MAY88	22MAY88	28MAY88	3
221H001A69	6	6	0	50	SANITARY FIXTURES & ACCESSORIES	21MAY88	26MAY88	25MAY88	1JUN88	4
221H044A70	4	4	0	01	ALUMINUM ACCESSORIES	23MAY88	29MAY88	25MAY88	1JUN88	2
221H043A70	4	4	0	02	ALUMINUM ACCESSORIES	29DEC87	3JAN88	30JAN88	2FEB88	26
221H042A70	4	4	0	03	ALUMINUM ACCESSORIES	29DEC87	3JAN88	3FEB88	7FEB88	30
221H041A70	4	4	0	04	ALUMINUM ACCESSORIES	4JAN88	7JAN88	3FEB88	7FEB88	26
221H040A70	4	4	0	05	ALUMINUM ACCESSORIES	11JAN88	14JAN88	8FEB88	11FEB88	24
221H039A70	4	4	0	06	ALUMINUM ACCESSORIES	11JAN88	14JAN88	8FEB88	11FEB88	24
221H038A70	4	4	0	07	ALUMINUM ACCESSORIES	16JAN88	19JAN88	13FEB88	16FEB88	24
221H037A70	4	4	0	08	ALUMINUM ACCESSORIES	19JAN88	23JAN88	13FEB88	16FEB88	21
221H036A70	4	4	0	09	ALUMINUM ACCESSORIES	21JAN88	25JAN88	17FEB88	21FEB88	23
221H035A70	4	4	0	10	ALUMINUM ACCESSORIES	25JAN88	28JAN88	17FEB88	21FEB88	20
221H034A70	4	4	0	11	ALUMINUM ACCESSORIES	27JAN88	31JAN88	22FEB88	27FEB88	22
221H033A70	4	4	0	12	ALUMINUM ACCESSORIES	30JAN88	2FEB88	22FEB88	27FEB88	20
221H032A70	4	4	0	13	ALUMINUM ACCESSORIES	2FEB88	6FEB88	28FEB88	2MAR88	21
221H031A70	4	4	0	14	ALUMINUM ACCESSORIES	4FEB88	8FEB88	28FEB88	2MAR88	19
221H030A70	4	4	0	15	ALUMINUM ACCESSORIES	8FEB88	11FEB88	3MAR88	7MAR88	20
221H029A70	4	4	0	16	ALUMINUM ACCESSORIES	10FEB88	14FEB88	3MAR88	7MAR88	18
221H028A70	4	4	0	17	ALUMINUM ACCESSORIES	13FEB88	16FEB88	8MAR88	12MAR88	17
221H027A70	4	4	0	18	ALUMINUM ACCESSORIES	16FEB88	20FEB88	8MAR88	12MAR88	15
221H026A70	4	4	0	19	ALUMINUM ACCESSORIES	18FEB88	22FEB88	13MAR88	16MAR88	16
221H025A70	4	4	0	20	ALUMINUM ACCESSORIES	22FEB88	27FEB88	13MAR88	16MAR88	16
221H024A70	4	4	0	21	ALUMINUM ACCESSORIES	24FEB88	29FEB88	17MAR88	21MAR88	18
221H023A70	4	4	0	22	ALUMINUM ACCESSORIES	28FEB88	2MAR88	17MAR88	21MAR88	16

Figure 9.13 - Case 2, Baseline Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
214H030A70	4	4	0	22	ALUMINUM ACCESSORIES	2MAR88	6MAR88	22MAR88	26MAR88	17
214H029A70	4	4	0	23	ALUMINUM ACCESSORIES	5MAR88	8MAR88	22MAR88	26MAR88	15
214H028A70	4	4	0	24	ALUMINUM ACCESSORIES	8MAR88	12MAR88	27MAR88	31MAR88	16
215H027A70	4	4	0	25	ALUMINUM ACCESSORIES	10MAR88	14MAR88	27MAR88	31MAR88	14
215H026A70	4	4	0	26	ALUMINUM ACCESSORIES	13MAR88	16MAR88	2APR88	5APR88	16
215H025A70	4	4	0	27	ALUMINUM ACCESSORIES	16MAR88	20MAR88	2APR88	5APR88	13
215H024A70	4	4	0	28	ALUMINUM ACCESSORIES	19MAR88	22MAR88	6APR88	10APR88	15
215H023A70	4	4	0	29	ALUMINUM ACCESSORIES	22MAR88	26MAR88	6APR88	10APR88	12
215H022A70	4	4	0	30	ALUMINUM ACCESSORIES	24MAR88	29MAR88	11APR88	14APR88	14
216H021A70	4	4	0	31	ALUMINUM ACCESSORIES	27MAR88	31MAR88	11APR88	14APR88	12
216H020A70	4	4	0	32	ALUMINUM ACCESSORIES	31MAR88	4APR88	16APR88	19APR88	13
216H019A70	4	4	0	33	ALUMINUM ACCESSORIES	3APR88	6APR88	16APR88	19APR88	11
216H018A70	4	4	0	34	ALUMINUM ACCESSORIES	6APR88	10APR88	20APR88	24APR88	12
217H017A70	4	4	0	35	ALUMINUM ACCESSORIES	9APR88	12APR88	20APR88	24APR88	10
217H016A70	4	4	0	36	ALUMINUM ACCESSORIES	12APR88	14APR88	25APR88	28APR88	12
218H015A70	4	4	0	37	ALUMINUM ACCESSORIES	14APR88	18APR88	25APR88	28APR88	9
218H014A70	4	4	0	38	ALUMINUM ACCESSORIES	17APR88	20APR88	30APR88	3MAY88	11
218H013A70	4	4	0	39	ALUMINUM ACCESSORIES	20APR88	24APR88	30APR88	3MAY88	8
219H012A70	4	4	0	40	ALUMINUM ACCESSORIES	23APR88	26APR88	4MAY88	8MAY88	10
219H011A70	4	4	0	41	ALUMINUM ACCESSORIES	25APR88	28APR88	4MAY88	8MAY88	8
219H010A70	4	4	0	42	ALUMINUM ACCESSORIES	28APR88	2MAY88	9MAY88	12MAY88	9
220H009A70	4	4	0	43	ALUMINUM ACCESSORIES	1MAY88	4MAY88	9MAY88	12MAY88	7
220H008A70	4	4	0	44	ALUMINUM ACCESSORIES	4MAY88	8MAY88	14MAY88	17MAY88	8
220H007A70	4	4	0	45	ALUMINUM ACCESSORIES	7MAY88	10MAY88	14MAY88	17MAY88	6
220H006A70	4	4	0	46	ALUMINUM ACCESSORIES	9MAY88	12MAY88	18MAY88	22MAY88	8
220H005A70	4	4	0	47	ALUMINUM ACCESSORIES	12MAY88	16MAY88	18MAY88	22MAY88	5
220H004A70	4	4	0	48	ALUMINUM ACCESSORIES	15MAY88	18MAY88	23MAY88	26MAY88	7
221H003A70	4	4	0	49	ALUMINUM ACCESSORIES	18MAY88	22MAY88	23MAY88	26MAY88	4
221H002A70	4	4	0	50	ALUMINUM ACCESSORIES	21MAY88	24MAY88	28MAY88	1JUN88	6
221H001A70	4	4	0	51	ALUMINUM ACCESSORIES	23MAY88	26MAY88	28MAY88	1JUN88	4
211H044A71	9	9	0	01	BRICK WORKS OF BOUNDARY WALL	2JAN88	11JAN88	10JAN88	19JAN88	7
211H043A71	9	9	0	02	BRICK WORKS OF BOUNDARY WALL	2JAN88	11JAN88	13JAN88	23JAN88	10
211H042A71	9	9	0	03	BRICK WORKS OF BOUNDARY WALL	2JAN88	11JAN88	14JAN88	24JAN88	11
211H035A71	9	9	0	04	BRICK WORKS OF BOUNDARY WALL	13JAN88	23JAN88	17JAN88	26JAN88	3
211H036A71	9	9	0	05	BRICK WORKS OF BOUNDARY WALL	13JAN88	23JAN88	19JAN88	28JAN88	5
211H037A71	9	9	0	06	BRICK WORKS OF BOUNDARY WALL	13JAN88	23JAN88	20JAN88	30JAN88	6
211H032A71	9	9	0	07	BRICK WORKS OF BOUNDARY WALL	18JAN88	27JAN88	24JAN88	2FE88	5
211H033A71	9	9	0	08	BRICK WORKS OF BOUNDARY WALL	21JAN88	31JAN88	25JAN88	3FE88	3
211H034A71	9	9	0	09	BRICK WORKS OF BOUNDARY WALL	24JAN88	2FE88	27JAN88	6FE88	3
223H185A71	9	9	0	10	BRICK WORKS OF BOUNDARY WALL	26JAN88	4FE88	30JAN88	8FE88	3
223H186A71	9	9	0	11	BRICK WORKS OF BOUNDARY WALL	28JAN88	7FE88	31JAN88	9FE88	2
223H187A71	9	9	0	12	BRICK WORKS OF BOUNDARY WALL	30JAN88	8FE88	3FE88	13FE88	4
222H188A71	9	9	0	13	BRICK WORKS OF BOUNDARY WALL	1FE88	10FE88	4FE88	14FE88	3
222H189A71	9	9	0	14	BRICK WORKS OF BOUNDARY WALL	3FE88	13FE88	7FE88	16FE88	3
222H190A71	9	9	0	15	BRICK WORKS OF BOUNDARY WALL	6FE88	15FE88	9FE88	18FE88	3
221H174A71	9	9	0	16	BRICK WORKS OF BOUNDARY WALL	8FE88	17FE88	10FE88	20FE88	2
221H175A71	9	9	0	17	BRICK WORKS OF BOUNDARY WALL	10FE88	20FE88	14FE88	23FE88	3
220H176A71	9	9	0	18	BRICK WORKS OF BOUNDARY WALL	13FE88	22FE88	15FE88	24FE88	2
220H177A71	9	9	0	19	BRICK WORKS OF BOUNDARY WALL	14FE88	23FE88	17FE88	28FE88	3
220H178A71	9	9	0	20	BRICK WORKS OF BOUNDARY WALL	16FE88	27FE88	20FE88	1MAR88	3
214H031A71	9	9	0	21	BRICK WORKS OF BOUNDARY WALL	18FE88	29FE88	21FE88	3MAR88	2
214H030A71	9	9	0	22	BRICK WORKS OF BOUNDARY WALL	21FE88	32MAR88	24FE88	6MAR88	3
214H029A71	9	9	0	23	BRICK WORKS OF BOUNDARY WALL	23FE88	5MAR88	27FE88	7MAR88	2
214H028A71	9	9	0	24	BRICK WORKS OF BOUNDARY WALL	27FE88	7MAR88	29FE88	9MAR88	2
215H027A71	9	9	0	25	BRICK WORKS OF BOUNDARY WALL	29FE88	9MAR88	30MAR88	12MAR88	2
215H026A71	9	9	0	26	BRICK WORKS OF BOUNDARY WALL	1MAR88	10MAR88	3MAR88	12MAR88	2
215H025A71	9	9	0	27	BRICK WORKS OF BOUNDARY WALL	1MAR88	13MAR88	7MAR88	16MAR88	3
215H024A71	9	9	0	28	BRICK WORKS OF BOUNDARY WALL	6MAR88	15MAR88	8MAR88	17MAR88	2
215H023A71	9	9	0	29	BRICK WORKS OF BOUNDARY WALL	8MAR88	17MAR88	10MAR88	20MAR88	2
215H022A71	9	9	0	30	BRICK WORKS OF BOUNDARY WALL	10MAR88	20MAR88	13MAR88	22MAR88	2
216H021A71	9	9	0	31	BRICK WORKS OF BOUNDARY WALL	13MAR88	23MAR88	14MAR88	23MAR88	1
216H020A71	9	9	0	32	BRICK WORKS OF BOUNDARY WALL	15MAR88	24MAR88	17MAR88	27MAR88	2
216H019A71	9	9	0	33	BRICK WORKS OF BOUNDARY WALL	16MAR88	26MAR88	19MAR88	29MAR88	2
216H018A71	9	9	0	34	BRICK WORKS OF BOUNDARY WALL	19MAR88	29MAR88	21MAR88	31MAR88	2
217H017A71	9	9	0	35	BRICK WORKS OF BOUNDARY WALL	21MAR88	31MAR88	23MAR88	3APR88	2
217H016A71	9	9	0	36	BRICK WORKS OF BOUNDARY WALL	23MAR88	3APR88	24MAR88	4APR88	1
218H015A71	9	9	0	37	BRICK WORKS OF BOUNDARY WALL	26MAR88	5APR88	29MAR88	7APR88	2
218H014A71	9	9	0	38	BRICK WORKS OF BOUNDARY WALL	29MAR88	7APR88	30MAR88	9APR88	1
218H013A71	9	9	0	39	BRICK WORKS OF BOUNDARY WALL	31MAR88	10APR88	2APR88	11APR88	1
219H012A71	9	9	0	40	BRICK WORKS OF BOUNDARY WALL	2APR88	11APR88	4APR88	13APR88	2
219H011A71	9	9	0	41	BRICK WORKS OF BOUNDARY WALL	4APR88	13APR88	5APR88	14APR88	1
219H010A71	9	9	0	42	BRICK WORKS OF BOUNDARY WALL	6APR88	16APR88	9APR88	18APR88	2
220H009A71	9	9	0	43	BRICK WORKS OF BOUNDARY WALL	9APR88	18APR88	10APR88	19APR88	1
220H008A71	9	9	0	44	BRICK WORKS OF BOUNDARY WALL	11APR88	20APR88	12APR88	21APR88	1
220H007A71	9	9	0	45	BRICK WORKS OF BOUNDARY WALL	13APR88	23APR88	14APR88	24APR88	1
220H006A71	9	9	0	46	BRICK WORKS OF BOUNDARY WALL	16APR88	25APR88	16APR88	25APR88	0
220H005A71	9	9	0	47	BRICK WORKS OF BOUNDARY WALL	17APR88	26APR88	19APR88	28APR88	2
220H004A71	9	9	0	48	BRICK WORKS OF BOUNDARY WALL	19APR88	28APR88	20APR88	30APR88	1
221H003A71	9	9	0	49	BRICK WORKS OF BOUNDARY WALL	21APR88	1MAY88	23APR88	2MAY88	1
221H002A71	9	9	0	50	BRICK WORKS OF BOUNDARY WALL	24APR88	3MAY88	25APR88	4MAY88	1
221H001A71	9	9	0	51	BRICK WORKS OF BOUNDARY WALL	26APR88	5MAY88	26APR88	5MAY88	0
211H044A72	6	6	0	01	BOUNDARY WALL CAST IN SITU COPING	12JAN88	18JAN88	28JAN88	3FE88	14
211H043A72	6	6	0	02	BOUNDARY WALL CAST IN SITU COPING	12JAN88	18JAN88	31JAN88	6FE88	16
211H042A72	6	6	0	03	BOUNDARY WALL CAST IN SITU COPING	12JAN88	18JAN88	1FE88	7FE88	17
211H035A72	6	6	0	04	BOUNDARY WALL CAST IN SITU COPING	24JAN88	30JAN88	3FE88	9FE88	9
211H036A72	6	6	0	05	BOUNDARY WALL CAST IN SITU COPING	24JAN88	30JAN88	6FE88	11FE88	11
211H037A72	6	6	0	06	BOUNDARY WALL CAST IN SITU COPING	24JAN88	30JAN88	7FE88	13FE88	12
211H032A72	6	6	0	07	BOUNDARY WALL CAST IN SITU COPING	29JAN88	3FE88	9FE88	15FE88	10
211H033A72	6	6	0	08	BOUNDARY WALL CAST IN SITU COPING	1FE88	7FE88	11FE88	17FE88	9
211H034A72	6	6	0	09	BOUNDARY WALL CAST IN SITU COPING	3FE88	9FE88	13FE88	19FE88	8
223H185A72	6	6	0	10	BOUNDARY WALL CAST IN SITU COPING	6FE88	11FE88	15FE88	21FE88	8
223H186A72	6	6	0	11	BOUNDARY WALL CAST IN SITU COPING	8FE88	14FE88	17FE88	23FE88	8
223H187A72	6	6	0	12	BOUNDARY WALL CAST IN SITU COPING	9FE88	15FE88	18FE88	24FE88	8
222H188A72	6	6	0	13	BOUNDARY WALL CAST IN SITU COPING	11FE88	17FE88	21FE88	28FE88	8
222H189A72	6	6	0	14	BOUNDARY WALL CAST IN SITU COPING	14FE88	20FE88	23FE88	1MAR88	8
222H190A72	6	6	0	15	BOUNDARY WALL CAST IN SITU COPING	16FE88	22FE88	24FE88	2MAR88	7

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 13AUG98

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR97 PAGE NO. 38

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
321H174A72	6	6	0	16	BOUNDARY WALL CAST IN SITU COPING	18FEB88	24FEB88	28FEB88	5MAR88	7
321H175A72	6	6	0	17	BOUNDARY WALL CAST IN SITU COPING	21FEB88	28FEB88	1MAR88	7MAR88	7
320H176A72	6	6	0	18	BOUNDARY WALL CAST IN SITU COPING	23FEB88	1MAR88	2MAR88	8MAR88	6
320H177A72	6	6	0	19	BOUNDARY WALL CAST IN SITU COPING	24FEB88	2MAR88	5MAR88	10MAR88	7
320H178A72	6	6	0	20	BOUNDARY WALL CAST IN SITU COPING	28FEB88	5MAR88	7MAR88	13MAR88	7
214H031A72	6	6	0	21	BOUNDARY WALL CAST IN SITU COPING	1MAR88	7MAR88	8MAR88	14MAR88	6
214H030A72	6	6	0	22	BOUNDARY WALL CAST IN SITU COPING	3MAR88	9MAR88	10MAR88	16MAR88	6
214H029A72	6	6	0	23	BOUNDARY WALL CAST IN SITU COPING	6MAR88	12MAR88	13MAR88	19MAR88	6
214H028A72	6	6	0	24	BOUNDARY WALL CAST IN SITU COPING	8MAR88	14MAR88	14MAR88	20MAR88	5
215H027A72	6	6	0	25	BOUNDARY WALL CAST IN SITU COPING	10MAR88	16MAR88	16MAR88	22MAR88	5
215H026A72	6	6	0	26	BOUNDARY WALL CAST IN SITU COPING	12MAR88	17MAR88	19MAR88	24MAR88	6
215H025A72	6	6	0	27	BOUNDARY WALL CAST IN SITU COPING	14MAR88	20MAR88	20MAR88	26MAR88	5
215H024A72	6	6	0	28	BOUNDARY WALL CAST IN SITU COPING	16MAR88	22MAR88	22MAR88	29MAR88	5
215H023A72	6	6	0	29	BOUNDARY WALL CAST IN SITU COPING	19MAR88	24MAR88	24MAR88	31MAR88	5
215H022A72	6	6	0	30	BOUNDARY WALL CAST IN SITU COPING	21MAR88	27MAR88	26MAR88	2APR88	4
216H021A72	6	6	0	31	BOUNDARY WALL CAST IN SITU COPING	23MAR88	30MAR88	29MAR88	4APR88	4
216H020A72	6	6	0	32	BOUNDARY WALL CAST IN SITU COPING	26MAR88	2APR88	31MAR88	6APR88	4
216H019A72	6	6	0	33	BOUNDARY WALL CAST IN SITU COPING	27MAR88	3APR88	2APR88	7APR88	4
216H018A72	6	6	0	34	BOUNDARY WALL CAST IN SITU COPING	30MAR88	5APR88	4APR88	10APR88	4
217H017A72	6	6	0	35	BOUNDARY WALL CAST IN SITU COPING	2APR88	7APR88	6APR88	12APR88	4
217H016A72	6	6	0	36	BOUNDARY WALL CAST IN SITU COPING	4APR88	10APR88	7APR88	13APR88	3
218H015A72	6	6	0	37	BOUNDARY WALL CAST IN SITU COPING	6APR88	12APR88	10APR88	16APR88	3
218H014A72	6	6	0	38	BOUNDARY WALL CAST IN SITU COPING	9APR88	14APR88	12APR88	18APR88	3
218H013A72	6	6	0	39	BOUNDARY WALL CAST IN SITU COPING	11APR88	17APR88	13APR88	19APR88	2
219H012A72	6	6	0	40	BOUNDARY WALL CAST IN SITU COPING	12APR88	18APR88	16APR88	21APR88	3
219H011A72	6	6	0	41	BOUNDARY WALL CAST IN SITU COPING	14APR88	20APR88	18APR88	24APR88	3
219H010A72	6	6	0	42	BOUNDARY WALL CAST IN SITU COPING	17APR88	23APR88	19APR88	25APR88	2
220H009A72	6	6	0	43	BOUNDARY WALL CAST IN SITU COPING	19APR88	25APR88	21APR88	27APR88	2
220H008A72	6	6	0	44	BOUNDARY WALL CAST IN SITU COPING	21APR88	27APR88	24APR88	30APR88	2
220H007A72	6	6	0	45	BOUNDARY WALL CAST IN SITU COPING	24APR88	30APR88	25APR88	1MAY88	1
220H006A72	6	6	0	46	BOUNDARY WALL CAST IN SITU COPING	26APR88	2MAY88	27APR88	3MAY88	1
220H005A72	6	6	0	47	BOUNDARY WALL CAST IN SITU COPING	27APR88	3MAY88	30APR88	5MAY88	2
220H004A72	6	6	0	48	BOUNDARY WALL CAST IN SITU COPING	30APR88	5MAY88	1MAY88	7MAY88	1
221H003A72	6	6	0	49	BOUNDARY WALL CAST IN SITU COPING	2MAY88	8MAY88	3MAY88	9MAY88	1
221H002A72	6	6	0	50	BOUNDARY WALL CAST IN SITU COPING	4MAY88	10MAY88	5MAY88	11MAY88	1
221H001A72	6	6	0	51	BOUNDARY WALL CAST IN SITU COPING	7MAY88	12MAY88	7MAY88	12MAY88	0
211H044A73	1	1	0	01	WATER SUPPLY HOUSE CONNECTION	12JAN88	12JAN88	18APR88	18APR88	81
211H043A73	1	1	0	02	WATER SUPPLY HOUSE CONNECTION	13JAN88	13JAN88	19APR88	19APR88	81
211H042A73	1	1	0	03	WATER SUPPLY HOUSE CONNECTION	14JAN88	14JAN88	20APR88	20APR88	81
213H035A73	1	1	0	04	WATER SUPPLY HOUSE CONNECTION	24JAN88	24JAN88	21APR88	21APR88	74
213H036A73	1	1	0	05	WATER SUPPLY HOUSE CONNECTION	25JAN88	25JAN88	23APR88	23APR88	74
213H037A73	1	1	0	06	WATER SUPPLY HOUSE CONNECTION	26JAN88	26JAN88	24APR88	24APR88	74
213H032A73	1	1	0	07	WATER SUPPLY HOUSE CONNECTION	28JAN88	28JAN88	25APR88	25APR88	73
213H033A73	1	1	0	08	WATER SUPPLY HOUSE CONNECTION	1FEB88	1FEB88	26APR88	26APR88	71
213H034A73	1	1	0	09	WATER SUPPLY HOUSE CONNECTION	3FEB88	3FEB88	27APR88	27APR88	70
233H185A73	1	1	0	10	WATER SUPPLY HOUSE CONNECTION	6FEB88	6FEB88	28APR88	28APR88	69
323H186A73	1	1	0	11	WATER SUPPLY HOUSE CONNECTION	8FEB88	8FEB88	30APR88	30APR88	68
323H187A73	1	1	0	12	WATER SUPPLY HOUSE CONNECTION	9FEB88	9FEB88	1MAY88	1MAY88	68
322H188A73	1	1	0	13	WATER SUPPLY HOUSE CONNECTION	11FEB88	11FEB88	2MAY88	2MAY88	67
322H189A73	1	1	0	14	WATER SUPPLY HOUSE CONNECTION	14FEB88	14FEB88	3MAY88	3MAY88	66
322H190A73	1	1	0	15	WATER SUPPLY HOUSE CONNECTION	16FEB88	16FEB88	4MAY88	4MAY88	65
321H174A73	1	1	0	16	WATER SUPPLY HOUSE CONNECTION	18FEB88	18FEB88	5MAY88	5MAY88	64
321H175A73	1	1	0	17	WATER SUPPLY HOUSE CONNECTION	21FEB88	21FEB88	7MAY88	7MAY88	63
320H176A73	1	1	0	18	WATER SUPPLY HOUSE CONNECTION	23FEB88	23FEB88	8MAY88	8MAY88	62
320H177A73	1	1	0	19	WATER SUPPLY HOUSE CONNECTION	24FEB88	24FEB88	9MAY88	9MAY88	62
320H178A73	1	1	0	20	WATER SUPPLY HOUSE CONNECTION	28FEB88	28FEB88	10MAY88	10MAY88	61
214H031A73	1	1	0	21	WATER SUPPLY HOUSE CONNECTION	1MAR88	1MAR88	11MAY88	11MAY88	60
214H030A73	1	1	0	22	WATER SUPPLY HOUSE CONNECTION	3MAR88	3MAR88	12MAY88	12MAY88	59
214H029A73	1	1	0	23	WATER SUPPLY HOUSE CONNECTION	6MAR88	6MAR88	14MAY88	14MAY88	58
214H028A73	1	1	0	24	WATER SUPPLY HOUSE CONNECTION	8MAR88	8MAR88	15MAY88	15MAY88	57
215H027A73	1	1	0	25	WATER SUPPLY HOUSE CONNECTION	10MAR88	10MAR88	16MAY88	16MAY88	56
215H026A73	1	1	0	26	WATER SUPPLY HOUSE CONNECTION	12MAR88	12MAR88	17MAY88	17MAY88	56
215H025A73	1	1	0	27	WATER SUPPLY HOUSE CONNECTION	14MAR88	14MAR88	18MAY88	18MAY88	55
215H024A73	1	1	0	28	WATER SUPPLY HOUSE CONNECTION	16MAR88	16MAR88	19MAY88	19MAY88	54
215H023A73	1	1	0	29	WATER SUPPLY HOUSE CONNECTION	19MAR88	19MAR88	21MAY88	21MAY88	53
215H022A73	1	1	0	30	WATER SUPPLY HOUSE CONNECTION	21MAR88	21MAR88	22MAY88	22MAY88	52
216H021A73	1	1	0	31	WATER SUPPLY HOUSE CONNECTION	23MAR88	23MAR88	23MAY88	23MAY88	51
216H020A73	1	1	0	32	WATER SUPPLY HOUSE CONNECTION	26MAR88	26MAR88	24MAY88	24MAY88	50
216H019A73	1	1	0	33	WATER SUPPLY HOUSE CONNECTION	27MAR88	27MAR88	25MAY88	25MAY88	50
216H018A73	1	1	0	34	WATER SUPPLY HOUSE CONNECTION	30MAR88	30MAR88	26MAY88	26MAY88	49
217H017A73	1	1	0	35	WATER SUPPLY HOUSE CONNECTION	2APR88	2APR88	28MAY88	28MAY88	48
217H016A73	1	1	0	36	WATER SUPPLY HOUSE CONNECTION	4APR88	4APR88	29MAY88	29MAY88	47
218H015A73	1	1	0	37	WATER SUPPLY HOUSE CONNECTION	6APR88	6APR88	31MAY88	31MAY88	46
218H014A73	1	1	0	38	WATER SUPPLY HOUSE CONNECTION	9APR88	9APR88	1JUN88	1JUN88	45
218H013A73	1	1	0	39	WATER SUPPLY HOUSE CONNECTION	11APR88	11APR88	2JUN88	2JUN88	44
219H012A73	1	1	0	40	WATER SUPPLY HOUSE CONNECTION	12APR88	12APR88	4JUN88	4JUN88	44
219H011A73	1	1	0	41	WATER SUPPLY HOUSE CONNECTION	14APR88	14APR88	5JUN88	5JUN88	43
219H010A73	1	1	0	42	WATER SUPPLY HOUSE CONNECTION	17APR88	17APR88	6JUN88	6JUN88	42
220H009A73	1	1	0	43	WATER SUPPLY HOUSE CONNECTION	19APR88	19APR88	7JUN88	7JUN88	41
220H008A73	1	1	0	44	WATER SUPPLY HOUSE CONNECTION	21APR88	21APR88	8JUN88	8JUN88	40
220H007A73	1	1	0	45	WATER SUPPLY HOUSE CONNECTION	24APR88	24APR88	9JUN88	9JUN88	39
220H006A73	1	1	0	46	WATER SUPPLY HOUSE CONNECTION	26APR88	26APR88	11JUN88	11JUN88	38
220H005A73	1	1	0	47	WATER SUPPLY HOUSE CONNECTION	27APR88	27APR88	12JUN88	12JUN88	38
220H004A73	1	1	0	48	WATER SUPPLY HOUSE CONNECTION	30APR88	30APR88	13JUN88	13JUN88	37
221H003A73	1	1	0	49	WATER SUPPLY HOUSE CONNECTION	2MAY88	2MAY88	14JUN88	14JUN88	36
221H002A73	1	1	0	50	WATER SUPPLY HOUSE CONNECTION	4MAY88	4MAY88	15JUN88	15JUN88	35
221H001A73	1	1	0	51	WATER SUPPLY HOUSE CONNECTION	7MAY88	7MAY88	16JUN88	16JUN88	34
211H044A74	10	10	0	01	YARD TERRAZZO TILES & MASTIC WORKS	19JAN88	30JAN88	4FEB88	15FEB88	14
211H043A74	10	10	0	02	YARD TERRAZZO TILES & MASTIC WORKS	19JAN88	30JAN88	7FEB88	17FEB88	16
211H042A74	10	10	0	03	YARD TERRAZZO TILES & MASTIC WORKS	19JAN88	30JAN88	8FEB88	18FEB88	17
213H035A74	10	10	0	04	YARD TERRAZZO TILES & MASTIC WORKS	31JAN88	10FEB88	10FEB88	21FEB88	9
213H036A74	10	10	0	05	YARD TERRAZZO TILES & MASTIC WORKS	31JAN88	10FEB88	13FEB88	23FEB88	11
213H037A74	10	10	0	06	YARD TERRAZZO TILES & MASTIC WORKS	31JAN88	10FEB88	14FEB88	24FEB88	12
213H032A74	10	10	0	07	YARD TERRAZZO TILES & MASTIC WORKS	4FEB88	15FEB88	16FEB88	28FEB88	10
213H033A74	10	10	0	08	YARD TERRAZZO TILES & MASTIC WORKS	8FEB88	18FEB88	18FEB88	1MAR88	9
213H034A74	10	10	0	09	YARD TERRAZZO TILES & MASTIC WORKS	10FEB88	21FEB88	20FEB88	2MAR88	8

Figure 9.13 - Case 2, Baseline Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.				PRIMAVERA PROJECT PLANNER				JAHRA 3 HOUSING PROJECT common act			
REPORT DATE 21SEP95 RUN NO. 121				SEVEN SEAS, CONSTRUCTION OF 51 HOUSES				START DATE 1APR87 FIN DATE 13AUG88			
Baseline Schedule by Typical Activity & ES								DATA DATE 1APR87 PAGE NO. 39			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT	
323H185A74	10	10	0	10	YARD TERRAZZO TILES & MASTIC WORKS	13FEB88	23FEB88	22FEB88	5MAR88	8	
323H186A74	10	10	0	11	YARD TERRAZZO TILES & MASTIC WORKS	15FEB88	27FEB88	24FEB88	7MAR88	8	
323H187A74	10	10	0	12	YARD TERRAZZO TILES & MASTIC WORKS	16FEB88	28FEB88	27FEB88	8MAR88	8	
322H188A74	10	10	0	13	YARD TERRAZZO TILES & MASTIC WORKS	18FEB88	1MAR88	29FEB88	10MAR88	8	
322H189A74	10	10	0	14	YARD TERRAZZO TILES & MASTIC WORKS	21FEB88	3MAR88	2MAR88	13MAR88	8	
322H190A74	10	10	0	15	YARD TERRAZZO TILES & MASTIC WORKS	23FEB88	6MAR88	3MAR88	14MAR88	7	
321H174A74	10	10	0	16	YARD TERRAZZO TILES & MASTIC WORKS	27FEB88	8MAR88	6MAR88	16MAR88	7	
321H175A74	10	10	0	17	YARD TERRAZZO TILES & MASTIC WORKS	29FEB88	10MAR88	8MAR88	19MAR88	7	
320H176A74	10	10	0	18	YARD TERRAZZO TILES & MASTIC WORKS	2MAR88	13MAR88	9MAR88	20MAR88	6	
320H177A74	10	10	0	19	YARD TERRAZZO TILES & MASTIC WORKS	3MAR88	14MAR88	12MAR88	22MAR88	7	
320H178A74	10	10	0	20	YARD TERRAZZO TILES & MASTIC WORKS	6MAR88	16MAR88	14MAR88	24MAR88	7	
214H031A74	10	10	0	21	YARD TERRAZZO TILES & MASTIC WORKS	8MAR88	19MAR88	15MAR88	26MAR88	6	
214H030A74	10	10	0	22	YARD TERRAZZO TILES & MASTIC WORKS	10MAR88	21MAR88	17MAR88	29MAR88	6	
214H029A74	10	10	0	23	YARD TERRAZZO TILES & MASTIC WORKS	13MAR88	23MAR88	20MAR88	31MAR88	6	
214H028A74	10	10	0	24	YARD TERRAZZO TILES & MASTIC WORKS	15MAR88	26MAR88	21MAR88	2APR88	5	
215H027A74	10	10	0	25	YARD TERRAZZO TILES & MASTIC WORKS	17MAR88	29MAR88	23MAR88	4APR88	5	
215H026A74	10	10	0	26	YARD TERRAZZO TILES & MASTIC WORKS	19MAR88	30MAR88	26MAR88	6APR88	6	
215H025A74	10	10	0	27	YARD TERRAZZO TILES & MASTIC WORKS	21MAR88	2APR88	27MAR88	7APR88	5	
215H024A74	10	10	0	28	YARD TERRAZZO TILES & MASTIC WORKS	23MAR88	4APR88	30MAR88	10APR88	5	
215H023A74	10	10	0	29	YARD TERRAZZO TILES & MASTIC WORKS	26MAR88	6APR88	2APR88	12APR88	5	
215H022A74	10	10	0	30	YARD TERRAZZO TILES & MASTIC WORKS	29MAR88	9APR88	3APR88	13APR88	4	
216H021A74	10	10	0	31	YARD TERRAZZO TILES & MASTIC WORKS	31MAR88	11APR88	5APR88	16APR88	4	
216H020A74	10	10	0	32	YARD TERRAZZO TILES & MASTIC WORKS	3APR88	13APR88	7APR88	18APR88	4	
216H019A74	10	10	0	33	YARD TERRAZZO TILES & MASTIC WORKS	4APR88	14APR88	9APR88	19APR88	4	
216H018A74	10	10	0	34	YARD TERRAZZO TILES & MASTIC WORKS	6APR88	17APR88	11APR88	21APR88	4	
217H017A74	10	10	0	35	YARD TERRAZZO TILES & MASTIC WORKS	9APR88	19APR88	13APR88	24APR88	4	
217H016A74	10	10	0	36	YARD TERRAZZO TILES & MASTIC WORKS	11APR88	21APR88	14APR88	25APR88	3	
218H015A74	10	10	0	37	YARD TERRAZZO TILES & MASTIC WORKS	13APR88	24APR88	17APR88	27APR88	3	
218H014A74	10	10	0	38	YARD TERRAZZO TILES & MASTIC WORKS	16APR88	26APR88	19APR88	30APR88	2	
218H013A74	10	10	0	39	YARD TERRAZZO TILES & MASTIC WORKS	18APR88	28APR88	20APR88	1MAY88	3	
219H012A74	10	10	0	40	YARD TERRAZZO TILES & MASTIC WORKS	19APR88	30APR88	23APR88	3MAY88	3	
219H011A74	10	10	0	41	YARD TERRAZZO TILES & MASTIC WORKS	21APR88	2MAY88	25APR88	5MAY88	3	
219H010A74	10	10	0	42	YARD TERRAZZO TILES & MASTIC WORKS	24APR88	4MAY88	26APR88	7MAY88	2	
220H009A74	10	10	0	43	YARD TERRAZZO TILES & MASTIC WORKS	26APR88	7MAY88	28APR88	9MAY88	2	
220H008A74	10	10	0	44	YARD TERRAZZO TILES & MASTIC WORKS	28APR88	9MAY88	1MAY88	11MAY88	2	
220H007A74	10	10	0	45	YARD TERRAZZO TILES & MASTIC WORKS	1MAY88	11MAY88	2MAY88	12MAY88	1	
220H006A74	10	10	0	46	YARD TERRAZZO TILES & MASTIC WORKS	3MAY88	14MAY88	4MAY88	15MAY88	1	
220H005A74	10	10	0	47	YARD TERRAZZO TILES & MASTIC WORKS	4MAY88	15MAY88	7MAY88	17MAY88	2	
220H004A74	10	10	0	48	YARD TERRAZZO TILES & MASTIC WORKS	7MAY88	17MAY88	8MAY88	18MAY88	1	
221H003A74	10	10	0	49	YARD TERRAZZO TILES & MASTIC WORKS	9MAY88	19MAY88	10MAY88	21MAY88	1	
221H002A74	10	10	0	50	YARD TERRAZZO TILES & MASTIC WORKS	11MAY88	22MAY88	12MAY88	23MAY88	1	
221H001A74	10	10	0	51	YARD TERRAZZO TILES & MASTIC WORKS	14MAY88	24MAY88	14MAY88	24MAY88	0	
211H044A75	5	5	0	01	FRAMES & FINISHES OF YARD HAND/MANHOLE	19JAN88	24JAN88	6FEB88	10FEB88	15	
211H043A75	5	5	0	02	FRAMES & FINISHES OF YARD HAND/MANHOLE	19JAN88	24JAN88	8FEB88	13FEB88	17	
211H042A75	5	5	0	03	FRAMES & FINISHES OF YARD HAND/MANHOLE	19JAN88	24JAN88	10FEB88	15FEB88	19	
213H035A75	5	5	0	04	FRAMES & FINISHES OF YARD HAND/MANHOLE	31JAN88	4FEB88	13FEB88	17FEB88	11	
213H036A75	5	5	0	05	FRAMES & FINISHES OF YARD HAND/MANHOLE	31JAN88	4FEB88	15FEB88	20FEB88	13	
213H037A75	5	5	0	06	FRAMES & FINISHES OF YARD HAND/MANHOLE	31JAN88	4FEB88	17FEB88	22FEB88	15	
213H032A75	5	5	0	07	FRAMES & FINISHES OF YARD HAND/MANHOLE	4FEB88	10FEB88	20FEB88	24FEB88	12	
213H033A75	5	5	0	08	FRAMES & FINISHES OF YARD HAND/MANHOLE	8FEB88	13FEB88	22FEB88	28FEB88	12	
213H034A75	5	5	0	09	FRAMES & FINISHES OF YARD HAND/MANHOLE	10FEB88	15FEB88	23FEB88	29FEB88	11	
323H185A75	5	5	0	10	FRAMES & FINISHES OF YARD HAND/MANHOLE	13FEB88	17FEB88	27FEB88	2MAR88	11	
323H186A75	5	5	0	11	FRAMES & FINISHES OF YARD HAND/MANHOLE	15FEB88	20FEB88	29FEB88	5MAR88	11	
323H187A75	5	5	0	12	FRAMES & FINISHES OF YARD HAND/MANHOLE	16FEB88	21FEB88	1MAR88	6MAR88	11	
322H188A75	5	5	0	13	FRAMES & FINISHES OF YARD HAND/MANHOLE	18FEB88	23FEB88	3MAR88	8MAR88	11	
322H189A75	5	5	0	14	FRAMES & FINISHES OF YARD HAND/MANHOLE	21FEB88	27FEB88	6MAR88	10MAR88	11	
322H190A75	5	5	0	15	FRAMES & FINISHES OF YARD HAND/MANHOLE	23FEB88	29FEB88	7MAR88	12MAR88	10	
321H174A75	5	5	0	16	FRAMES & FINISHES OF YARD HAND/MANHOLE	27FEB88	2MAR88	9MAR88	14MAR88	10	
321H175A75	5	5	0	17	FRAMES & FINISHES OF YARD HAND/MANHOLE	29FEB88	5MAR88	12MAR88	16MAR88	10	
320H176A75	5	5	0	18	FRAMES & FINISHES OF YARD HAND/MANHOLE	2MAR88	7MAR88	13MAR88	17MAR88	9	
320H177A75	5	5	0	19	FRAMES & FINISHES OF YARD HAND/MANHOLE	3MAR88	8MAR88	15MAR88	20MAR88	10	
320H178A75	5	5	0	20	FRAMES & FINISHES OF YARD HAND/MANHOLE	6MAR88	10MAR88	17MAR88	22MAR88	10	
214H031A75	5	5	0	21	FRAMES & FINISHES OF YARD HAND/MANHOLE	8MAR88	13MAR88	19MAR88	23MAR88	9	
214H030A75	5	5	0	22	FRAMES & FINISHES OF YARD HAND/MANHOLE	10MAR88	15MAR88	21MAR88	26MAR88	9	
214H029A75	5	5	0	23	FRAMES & FINISHES OF YARD HAND/MANHOLE	13MAR88	17MAR88	23MAR88	29MAR88	8	
214H028A75	5	5	0	24	FRAMES & FINISHES OF YARD HAND/MANHOLE	15MAR88	20MAR88	24MAR88	30MAR88	8	
215H027A75	5	5	0	25	FRAMES & FINISHES OF YARD HAND/MANHOLE	17MAR88	22MAR88	27MAR88	2APR88	8	
215H026A75	5	5	0	26	FRAMES & FINISHES OF YARD HAND/MANHOLE	19MAR88	23MAR88	30MAR88	4APR88	9	
215H025A75	5	5	0	27	FRAMES & FINISHES OF YARD HAND/MANHOLE	21MAR88	26MAR88	31MAR88	5APR88	8	
215H024A75	5	5	0	28	FRAMES & FINISHES OF YARD HAND/MANHOLE	23MAR88	29MAR88	3APR88	7APR88	8	
215H023A75	5	5	0	29	FRAMES & FINISHES OF YARD HAND/MANHOLE	26MAR88	31MAR88	5APR88	10APR88	8	
215H022A75	5	5	0	30	FRAMES & FINISHES OF YARD HAND/MANHOLE	29MAR88	3APR88	6APR88	11APR88	7	
216H021A75	5	5	0	31	FRAMES & FINISHES OF YARD HAND/MANHOLE	31MAR88	5APR88	9APR88	13APR88	7	
216H020A75	5	5	0	32	FRAMES & FINISHES OF YARD HAND/MANHOLE	3APR88	7APR88	11APR88	16APR88	7	
216H019A75	5	5	0	33	FRAMES & FINISHES OF YARD HAND/MANHOLE	4APR88	9APR88	12APR88	17APR88	7	
216H018A75	5	5	0	34	FRAMES & FINISHES OF YARD HAND/MANHOLE	6APR88	11APR88	14APR88	19APR88	7	
217H017A75	5	5	0	35	FRAMES & FINISHES OF YARD HAND/MANHOLE	9APR88	13APR88	17APR88	21APR88	7	
217H016A75	5	5	0	36	FRAMES & FINISHES OF YARD HAND/MANHOLE	11APR88	16APR88	18APR88	23APR88	6	
218H015A75	5	5	0	37	FRAMES & FINISHES OF YARD HAND/MANHOLE	13APR88	18APR88	20APR88	25APR88	6	
218H014A75	5	5	0	38	FRAMES & FINISHES OF YARD HAND/MANHOLE	16APR88	20APR88	23APR88	27APR88	6	
218H013A75	5	5	0	39	FRAMES & FINISHES OF YARD HAND/MANHOLE	18APR88	23APR88	24APR88	28APR88	5	
219H012A75	5	5	0	40	FRAMES & FINISHES OF YARD HAND/MANHOLE	19APR88	24APR88	26APR88	3MAY88	6	
219H011A75	5	5	0	41	FRAMES & FINISHES OF YARD HAND/MANHOLE	21APR88	26APR88	28APR88	4MAY88	6	
219H010A75	5	5	0	42	FRAMES & FINISHES OF YARD HAND/MANHOLE	24APR88	28APR88	30APR88	7MAY88	5	
220H009A75	5	5	0	43	FRAMES & FINISHES OF YARD HAND/MANHOLE	26APR88	3MAY88	4MAY88	9MAY88	5	
220H008A75	5	5	0	44	FRAMES & FINISHES OF YARD HAND/MANHOLE	28APR88	3MAY88	5MAY88	10MAY88	4	
220H007A75	5	5	0	45	FRAMES & FINISHES OF YARD HAND/MANHOLE	1MAY88	5MAY88	8MAY88	12MAY88	4	
220H006A75	5	5	0	46	FRAMES & FINISHES OF YARD HAND/MANHOLE	3MAY88	9MAY88	10MAY88	15MAY88	5	
220H005A75	5	5	0	47	FRAMES & FINISHES OF YARD HAND/MANHOLE	4MAY88	9MAY88	14MAY88	18MAY88	4	
220H004A75	5	5	0	48	FRAMES & FINISHES OF YARD HAND/MANHOLE	7MAY88	11MAY88	14MAY88	21MAY88	4	
221H003A75	5	5	0	49	FRAMES & FINISHES OF YARD HAND/MANHOLE	9MAY88	14MAY88	16MAY88	23MAY88	4	
221H002A75	5	5	0	50	FRAMES & FINISHES OF YARD HAND/MANHOLE	11MAY88	16MAY88	18MAY88	25MAY88	3	
221H001A75	5	5	0	51	FRAMES & FINISHES OF YARD HAND/MANHOLE	14MAY88	19MAY88	17MAY88	22MAY88	3	
211H044A76	2	2	0	01	PLUMBING NETWORKS TESTING	25JAN88	26JAN88	11FEB88	13FEB88	15	
211H043A76	2	2	0	02	PLUMBING NETWORKS TESTING	27JAN88	28JAN88	14FEB88	15FEB88	15	
211H042A76	2	2	0	03	PLUMBING NETWORKS TESTING	30JAN88	31JAN88	16FEB88	17FEB88	15	

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 40

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVEL ES	LEVEL EF	LEVEL LS	LEVEL LF	TOTAL FLOAT
213H035A76	2	2	0	04	PLUMBING NETWORKS TESTING	6FEB88	7FEB88	18FEB88	20FEB88	11
213H036A76	2	2	0	05	PLUMBING NETWORKS TESTING	8FEB88	9FEB88	21FEB88	22FEB88	11
213H037A76	2	2	0	06	PLUMBING NETWORKS TESTING	10FEB88	11FEB88	23FEB88	24FEB88	11
213H032A76	2	2	0	07	PLUMBING NETWORKS TESTING	11FEB88	14FEB88	27FEB88	28FEB88	11
213H033A76	2	2	0	08	PLUMBING NETWORKS TESTING	15FEB88	16FEB88	29FEB88	1MAR88	11
213H034A76	2	2	0	09	PLUMBING NETWORKS TESTING	17FEB88	18FEB88	2MAR88	3MAR88	11
213H185A76	2	2	0	10	PLUMBING NETWORKS TESTING	20FEB88	21FEB88	5MAR88	6MAR88	11
213H186A76	2	2	0	11	PLUMBING NETWORKS TESTING	22FEB88	23FEB88	7MAR88	8MAR88	11
213H187A76	2	2	0	12	PLUMBING NETWORKS TESTING	24FEB88	27FEB88	9MAR88	10MAR88	11
213H188A76	2	2	0	13	PLUMBING NETWORKS TESTING	28FEB88	29FEB88	12MAR88	13MAR88	11
213H189A76	2	2	0	14	PLUMBING NETWORKS TESTING	1MAR88	2MAR88	14MAR88	15MAR88	11
213H190A76	2	2	0	15	PLUMBING NETWORKS TESTING	3MAR88	5MAR88	16MAR88	17MAR88	11
213H174A76	2	2	0	16	PLUMBING NETWORKS TESTING	6MAR88	7MAR88	19MAR88	20MAR88	11
213H175A76	2	2	0	17	PLUMBING NETWORKS TESTING	8MAR88	9MAR88	21MAR88	22MAR88	11
213H176A76	2	2	0	18	PLUMBING NETWORKS TESTING	10MAR88	12MAR88	23MAR88	24MAR88	11
213H177A76	2	2	0	19	PLUMBING NETWORKS TESTING	13MAR88	14MAR88	26MAR88	27MAR88	11
213H178A76	2	2	0	20	PLUMBING NETWORKS TESTING	15MAR88	16MAR88	29MAR88	30MAR88	11
214H031A76	2	2	0	21	PLUMBING NETWORKS TESTING	17MAR88	19MAR88	31MAR88	2APR88	11
214H030A76	2	2	0	22	PLUMBING NETWORKS TESTING	20MAR88	21MAR88	3APR88	4APR88	11
214H029A76	2	2	0	23	PLUMBING NETWORKS TESTING	22MAR88	23MAR88	5APR88	6APR88	11
214H028A76	2	2	0	24	PLUMBING NETWORKS TESTING	24MAR88	26MAR88	7APR88	9APR88	11
215H027A76	2	2	0	25	PLUMBING NETWORKS TESTING	27MAR88	29MAR88	10APR88	11APR88	11
215H026A76	2	2	0	26	PLUMBING NETWORKS TESTING	30MAR88	31MAR88	12APR88	13APR88	11
215H025A76	2	2	0	27	PLUMBING NETWORKS TESTING	2APR88	3APR88	14APR88	16APR88	11
215H024A76	2	2	0	28	PLUMBING NETWORKS TESTING	4APR88	5APR88	17APR88	18APR88	11
215H023A76	2	2	0	29	PLUMBING NETWORKS TESTING	6APR88	7APR88	19APR88	20APR88	11
215H022A76	2	2	0	30	PLUMBING NETWORKS TESTING	9APR88	10APR88	21APR88	23APR88	11
216H021A76	2	2	0	31	PLUMBING NETWORKS TESTING	11APR88	12APR88	24APR88	25APR88	11
216H020A76	2	2	0	32	PLUMBING NETWORKS TESTING	13APR88	14APR88	26APR88	27APR88	11
216H019A76	2	2	0	33	PLUMBING NETWORKS TESTING	16APR88	17APR88	28APR88	30APR88	11
216H018A76	2	2	0	34	PLUMBING NETWORKS TESTING	18APR88	19APR88	1MAY88	2MAY88	11
217H017A76	2	2	0	35	PLUMBING NETWORKS TESTING	20APR88	21APR88	3MAY88	4MAY88	11
217H016A76	2	2	0	36	PLUMBING NETWORKS TESTING	23APR88	24APR88	5MAY88	7MAY88	11
218H015A76	2	2	0	37	PLUMBING NETWORKS TESTING	25APR88	26APR88	8MAY88	9MAY88	11
218H014A76	2	2	0	38	PLUMBING NETWORKS TESTING	27APR88	28APR88	10MAY88	11MAY88	11
218H013A76	2	2	0	39	PLUMBING NETWORKS TESTING	30APR88	1MAY88	12MAY88	14MAY88	11
218H012A76	2	2	0	40	PLUMBING NETWORKS TESTING	2MAY88	3MAY88	15MAY88	16MAY88	11
218H011A76	2	2	0	41	PLUMBING NETWORKS TESTING	4MAY88	5MAY88	17MAY88	18MAY88	11
218H010A76	2	2	0	42	PLUMBING NETWORKS TESTING	7MAY88	8MAY88	19MAY88	21MAY88	11
218H009A76	2	2	0	43	PLUMBING NETWORKS TESTING	9MAY88	10MAY88	22MAY88	23MAY88	11
218H008A76	2	2	0	44	PLUMBING NETWORKS TESTING	11MAY88	12MAY88	24MAY88	25MAY88	11
218H007A76	2	2	0	45	PLUMBING NETWORKS TESTING	14MAY88	15MAY88	26MAY88	28MAY88	11
218H006A76	2	2	0	46	PLUMBING NETWORKS TESTING	16MAY88	17MAY88	29MAY88	31MAY88	11
218H005A76	2	2	0	47	PLUMBING NETWORKS TESTING	19MAY88	21MAY88	1JUN88	2JUN88	10
218H004A76	2	2	0	48	PLUMBING NETWORKS TESTING	22MAY88	23MAY88	4JUN88	5JUN88	10
218H003A76	2	2	0	49	PLUMBING NETWORKS TESTING	25MAY88	26MAY88	6JUN88	7JUN88	9
218H002A76	2	2	0	50	PLUMBING NETWORKS TESTING	28MAY88	29MAY88	8JUN88	9JUN88	9
218H001A76	2	2	0	51	PLUMBING NETWORKS TESTING	31MAY88	1JUN88	11JUN88	12JUN88	9
211H044A77	5	5	0	01	ALUMINUM EXTERNAL FALSE CEILING	31JAN88	4FEB88	16FEB88	21FEB88	14
211H043A77	5	5	0	02	ALUMINUM EXTERNAL FALSE CEILING	31JAN88	4FEB88	18FEB88	23FEB88	16
211H042A77	5	5	0	03	ALUMINUM EXTERNAL FALSE CEILING	31JAN88	4FEB88	20FEB88	24FEB88	17
213H035A77	5	5	0	04	ALUMINUM EXTERNAL FALSE CEILING	11FEB88	16FEB88	22FEB88	28FEB88	9
213H036A77	5	5	0	05	ALUMINUM EXTERNAL FALSE CEILING	11FEB88	16FEB88	24FEB88	1MAR88	11
213H037A77	5	5	0	06	ALUMINUM EXTERNAL FALSE CEILING	11FEB88	16FEB88	27FEB88	2MAR88	12
213H032A77	5	5	0	07	ALUMINUM EXTERNAL FALSE CEILING	17FEB88	22FEB88	29FEB88	5MAR88	9
213H033A77	5	5	0	08	ALUMINUM EXTERNAL FALSE CEILING	20FEB88	24FEB88	2MAR88	7MAR88	9
213H034A77	5	5	0	09	ALUMINUM EXTERNAL FALSE CEILING	22FEB88	28FEB88	3MAR88	8MAR88	8
213H185A77	5	5	0	10	ALUMINUM EXTERNAL FALSE CEILING	24FEB88	1MAR88	6MAR88	10MAR88	8
213H186A77	5	5	0	11	ALUMINUM EXTERNAL FALSE CEILING	28FEB88	3MAR88	8MAR88	13MAR88	8
213H187A77	5	5	0	12	ALUMINUM EXTERNAL FALSE CEILING	29FEB88	5MAR88	9MAR88	14MAR88	8
213H188A77	5	5	0	13	ALUMINUM EXTERNAL FALSE CEILING	2MAR88	7MAR88	12MAR88	16MAR88	8
213H189A77	5	5	0	14	ALUMINUM EXTERNAL FALSE CEILING	5MAR88	9MAR88	14MAR88	19MAR88	8
213H190A77	5	5	0	15	ALUMINUM EXTERNAL FALSE CEILING	7MAR88	12MAR88	15MAR88	20MAR88	7
213H174A77	5	5	0	16	ALUMINUM EXTERNAL FALSE CEILING	9MAR88	14MAR88	17MAR88	22MAR88	7
213H175A77	5	5	0	17	ALUMINUM EXTERNAL FALSE CEILING	12MAR88	16MAR88	20MAR88	24MAR88	7
213H176A77	5	5	0	18	ALUMINUM EXTERNAL FALSE CEILING	14MAR88	19MAR88	21MAR88	26MAR88	6
213H177A77	5	5	0	19	ALUMINUM EXTERNAL FALSE CEILING	15MAR88	20MAR88	23MAR88	29MAR88	7
213H178A77	5	5	0	20	ALUMINUM EXTERNAL FALSE CEILING	17MAR88	22MAR88	26MAR88	31MAR88	6
214H031A77	5	5	0	21	ALUMINUM EXTERNAL FALSE CEILING	20MAR88	24MAR88	27MAR88	2APR88	6
214H030A77	5	5	0	22	ALUMINUM EXTERNAL FALSE CEILING	22MAR88	27MAR88	30MAR88	4APR88	6
214H029A77	5	5	0	23	ALUMINUM EXTERNAL FALSE CEILING	24MAR88	30MAR88	2APR88	6APR88	6
214H028A77	5	5	0	24	ALUMINUM EXTERNAL FALSE CEILING	27MAR88	2APR88	3APR88	7APR88	5
215H027A77	5	5	0	25	ALUMINUM EXTERNAL FALSE CEILING	30MAR88	4APR88	5APR88	10APR88	5
215H026A77	5	5	0	26	ALUMINUM EXTERNAL FALSE CEILING	31MAR88	5APR88	7APR88	12APR88	6
215H025A77	5	5	0	27	ALUMINUM EXTERNAL FALSE CEILING	3APR88	7APR88	9APR88	13APR88	5
215H024A77	5	5	0	28	ALUMINUM EXTERNAL FALSE CEILING	5APR88	10APR88	11APR88	16APR88	5
215H023A77	5	5	0	29	ALUMINUM EXTERNAL FALSE CEILING	7APR88	12APR88	13APR88	18APR88	5
215H022A77	5	5	0	30	ALUMINUM EXTERNAL FALSE CEILING	10APR88	14APR88	14APR88	19APR88	4
216H021A77	5	5	0	31	ALUMINUM EXTERNAL FALSE CEILING	12APR88	17APR88	17APR88	21APR88	4
216H020A77	5	5	0	32	ALUMINUM EXTERNAL FALSE CEILING	14APR88	19APR88	19APR88	24APR88	4
216H019A77	5	5	0	33	ALUMINUM EXTERNAL FALSE CEILING	16APR88	20APR88	20APR88	25APR88	4
216H018A77	5	5	0	34	ALUMINUM EXTERNAL FALSE CEILING	18APR88	23APR88	23APR88	27APR88	4
217H017A77	5	5	0	35	ALUMINUM EXTERNAL FALSE CEILING	20APR88	25APR88	25APR88	30APR88	3
217H016A77	5	5	0	36	ALUMINUM EXTERNAL FALSE CEILING	23APR88	27APR88	26APR88	1MAY88	4
218H015A77	5	5	0	37	ALUMINUM EXTERNAL FALSE CEILING	25APR88	30APR88	28APR88	3MAY88	3
218H014A77	5	5	0	38	ALUMINUM EXTERNAL FALSE CEILING	27APR88	30APR88	28APR88	5MAY88	3
218H013A77	5	5	0	39	ALUMINUM EXTERNAL FALSE CEILING	30APR88	4MAY88	2MAY88	7MAY88	2
218H012A77	5	5	0	40	ALUMINUM EXTERNAL FALSE CEILING	1MAY88	5MAY88	4MAY88	9MAY88	3
218H011A77	5	5	0	41	ALUMINUM EXTERNAL FALSE CEILING	3MAY88	8MAY88	7MAY88	11MAY88	2
218H010A77	5	5	0	42	ALUMINUM EXTERNAL FALSE CEILING	5MAY88	10MAY88	8MAY88	12MAY88	2
218H009A77	5	5	0	43	ALUMINUM EXTERNAL FALSE CEILING	8MAY88	12MAY88	10MAY88	15MAY88	2
218H008A77	5	5	0	44	ALUMINUM EXTERNAL FALSE CEILING	10MAY88	15MAY88	12MAY88	17MAY88	2
218H007A77	5	5	0	45	ALUMINUM EXTERNAL FALSE CEILING	12MAY88	17MAY88	14MAY88	18MAY88	1
218H006A77	5	5	0	46	ALUMINUM EXTERNAL FALSE CEILING	15MAY88	19MAY88	16MAY88	21MAY88	1
218H005A77	5	5	0	47	ALUMINUM EXTERNAL FALSE CEILING	16MAY88	21MAY88	18MAY88	23MAY88	2
218H004A77	5	5	0	48	ALUMINUM EXTERNAL FALSE CEILING	18MAY88	23MAY88	19MAY88	24MAY88	1

Figure 9.13 - Case 2, Baseline Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.				PRIMAVERA PROJECT PLANNER				JAHRA 3 HOUSING PROJECT common act			
REPORT DATE 21SEP95 RUN NO. 121				SEVEN SEAS. CONSTRUCTION OF 51 HOUSES				START DATE 1APR87 FIN DATE 13AUG88			
15:46											
Baseline Schedule by Typical Activity & ES								DATA DATE 1APR87 PAGE NO. 41			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT	
221H003A77	5	5	0	49	ALUMINUM EXTERNAL FALSE CEILING	21MAY88	25MAY88	22MAY88	26MAY88	1	
221H002A77	5	5	0	50	ALUMINUM EXTERNAL FALSE CEILING	23MAY88	28MAY88	24MAY88	29MAY88	1	
221H001A77	5	5	0	51	ALUMINUM EXTERNAL FALSE CEILING	25MAY88	31MAY88	25MAY88	31MAY88	0	
211H044A78	3	3	0	01	AGRICULTURAL SOIL	31JAN88	2FEB88	9MAR88	12MAR88	32	
211H043A78	3	3	0	02	AGRICULTURAL SOIL	31JAN88	2FEB88	12MAR88	14MAR88	34	
211H042A78	3	3	0	03	AGRICULTURAL SOIL	3FEB88	6FEB88	13MAR88	15MAR88	32	
213H035A78	3	3	0	04	AGRICULTURAL SOIL	11FEB88	14FEB88	15MAR88	17MAR88	27	
213H036A78	3	3	0	05	AGRICULTURAL SOIL	11FEB88	14FEB88	16MAR88	17MAR88	28	
213H037A78	3	3	0	06	AGRICULTURAL SOIL	15FEB88	17FEB88	19MAR88	21MAR88	27	
213H032A78	3	3	0	07	AGRICULTURAL SOIL	16FEB88	18FEB88	20MAR88	22MAR88	27	
213H033A78	3	3	0	08	AGRICULTURAL SOIL	20FEB88	22FEB88	22MAR88	24MAR88	26	
213H034A78	3	3	0	09	AGRICULTURAL SOIL	22FEB88	24FEB88	23MAR88	26MAR88	25	
323H185A78	3	3	0	10	AGRICULTURAL SOIL	24FEB88	26FEB88	26MAR88	29MAR88	25	
323H186A78	3	3	0	11	AGRICULTURAL SOIL	28FEB88	1MAR88	27MAR88	30MAR88	24	
323H187A78	3	3	0	12	AGRICULTURAL SOIL	29FEB88	2MAR88	30MAR88	2APR88	25	
322H188A78	3	3	0	13	AGRICULTURAL SOIL	2MAR88	5MAR88	31MAR88	3APR88	24	
322H189A78	3	3	0	14	AGRICULTURAL SOIL	5MAR88	7MAR88	3APR88	5APR88	24	
322H190A78	3	3	0	15	AGRICULTURAL SOIL	7MAR88	9MAR88	4APR88	6APR88	23	
321H174A78	3	3	0	16	AGRICULTURAL SOIL	9MAR88	12MAR88	6APR88	9APR88	23	
321H175A78	3	3	0	17	AGRICULTURAL SOIL	12MAR88	14MAR88	7APR88	10APR88	22	
320H176A78	3	3	0	18	AGRICULTURAL SOIL	14MAR88	16MAR88	10APR88	12APR88	22	
320H177A78	3	3	0	19	AGRICULTURAL SOIL	15MAR88	17MAR88	11APR88	13APR88	22	
320H178A78	3	3	0	20	AGRICULTURAL SOIL	17MAR88	20MAR88	13APR88	16APR88	22	
214H031A78	3	3	0	21	AGRICULTURAL SOIL	20MAR88	22MAR88	14APR88	17APR88	21	
214H030A78	3	3	0	22	AGRICULTURAL SOIL	22MAR88	24MAR88	17APR88	19APR88	21	
214H029A78	3	3	0	23	AGRICULTURAL SOIL	24MAR88	27MAR88	18APR88	20APR88	20	
214H028A78	3	3	0	24	AGRICULTURAL SOIL	27MAR88	30MAR88	20APR88	23APR88	20	
215H027A78	3	3	0	25	AGRICULTURAL SOIL	30MAR88	2APR88	21APR88	24APR88	19	
215H026A78	3	3	0	26	AGRICULTURAL SOIL	31MAR88	3APR88	24APR88	26APR88	20	
215H025A78	3	3	0	27	AGRICULTURAL SOIL	3APR88	5APR88	25APR88	27APR88	19	
215H024A78	3	3	0	28	AGRICULTURAL SOIL	5APR88	7APR88	27APR88	30APR88	19	
215H023A78	3	3	0	29	AGRICULTURAL SOIL	7APR88	10APR88	28APR88	1MAY88	18	
215H022A78	3	3	0	30	AGRICULTURAL SOIL	10APR88	12APR88	1MAY88	3MAY88	18	
216H021A78	3	3	0	31	AGRICULTURAL SOIL	12APR88	14APR88	2MAY88	4MAY88	17	
216H020A78	3	3	0	32	AGRICULTURAL SOIL	14APR88	17APR88	4MAY88	7MAY88	17	
216H019A78	3	3	0	33	AGRICULTURAL SOIL	16APR88	18APR88	5MAY88	8MAY88	17	
216H018A78	3	3	0	34	AGRICULTURAL SOIL	18APR88	20APR88	8MAY88	10MAY88	17	
217H017A78	3	3	0	35	AGRICULTURAL SOIL	20APR88	23APR88	9MAY88	11MAY88	16	
217H016A78	3	3	0	36	AGRICULTURAL SOIL	23APR88	25APR88	11MAY88	14MAY88	16	
218H015A78	3	3	0	37	AGRICULTURAL SOIL	25APR88	27APR88	12MAY88	15MAY88	15	
218H014A78	3	3	0	38	AGRICULTURAL SOIL	27APR88	30APR88	15MAY88	17MAY88	15	
218H013A78	3	3	0	39	AGRICULTURAL SOIL	30APR88	2MAY88	16MAY88	18MAY88	14	
219H012A78	3	3	0	40	AGRICULTURAL SOIL	1MAY88	3MAY88	18MAY88	21MAY88	15	
219H011A78	3	3	0	41	AGRICULTURAL SOIL	3MAY88	5MAY88	19MAY88	22MAY88	14	
219H010A78	3	3	0	42	AGRICULTURAL SOIL	5MAY88	8MAY88	22MAY88	24MAY88	14	
220H009A78	3	3	0	43	AGRICULTURAL SOIL	8MAY88	10MAY88	23MAY88	25MAY88	13	
220H008A78	3	3	0	44	AGRICULTURAL SOIL	10MAY88	12MAY88	25MAY88	28MAY88	13	
220H007A78	3	3	0	45	AGRICULTURAL SOIL	12MAY88	15MAY88	26MAY88	29MAY88	12	
220H006A78	3	3	0	46	AGRICULTURAL SOIL	15MAY88	17MAY88	29MAY88	1JUN88	12	
220H005A78	3	3	0	47	AGRICULTURAL SOIL	16MAY88	18MAY88	31MAY88	2JUN88	12	
220H004A78	3	3	0	48	AGRICULTURAL SOIL	18MAY88	21MAY88	2JUN88	5JUN88	12	
221H003A78	3	3	0	49	AGRICULTURAL SOIL	21MAY88	23MAY88	4JUN88	6JUN88	11	
221H002A78	3	3	0	50	AGRICULTURAL SOIL	23MAY88	25MAY88	7JUN88	9JUN88	12	
221H001A78	3	3	0	51	AGRICULTURAL SOIL	25MAY88	28MAY88	7JUN88	9JUN88	10	
211H044A79	4	4	0	01	STEEL GATES INSTALLATION & PAINT UNDERCOATS	31JAN88	3FEB88	29FEB88	3MAR88	24	
211H043A79	4	4	0	02	STEEL GATES INSTALLATION & PAINT UNDERCOATS	31JAN88	3FEB88	2MAR88	6MAR88	26	
211H042A79	4	4	0	03	STEEL GATES INSTALLATION & PAINT UNDERCOATS	31JAN88	3FEB88	3MAR88	7MAR88	27	
213H035A79	4	4	0	04	STEEL GATES INSTALLATION & PAINT UNDERCOATS	11FEB88	15FEB88	6MAR88	9MAR88	19	
213H036A79	4	4	0	05	STEEL GATES INSTALLATION & PAINT UNDERCOATS	11FEB88	15FEB88	7MAR88	10MAR88	20	
213H037A79	4	4	0	06	STEEL GATES INSTALLATION & PAINT UNDERCOATS	11FEB88	15FEB88	9MAR88	13MAR88	22	
213H032A79	4	4	0	07	STEEL GATES INSTALLATION & PAINT UNDERCOATS	16FEB88	20FEB88	10MAR88	14MAR88	19	
213H033A79	4	4	0	08	STEEL GATES INSTALLATION & PAINT UNDERCOATS	20FEB88	23FEB88	13MAR88	16MAR88	18	
213H034A79	4	4	0	09	STEEL GATES INSTALLATION & PAINT UNDERCOATS	22FEB88	27FEB88	14MAR88	17MAR88	17	
323H185A79	4	4	0	10	STEEL GATES INSTALLATION & PAINT UNDERCOATS	24FEB88	29FEB88	16MAR88	20MAR88	17	
323H186A79	4	4	0	11	STEEL GATES INSTALLATION & PAINT UNDERCOATS	28FEB88	2MAR88	17MAR88	21MAR88	16	
323H187A79	4	4	0	12	STEEL GATES INSTALLATION & PAINT UNDERCOATS	29FEB88	3MAR88	20MAR88	23MAR88	17	
322H188A79	4	4	0	13	STEEL GATES INSTALLATION & PAINT UNDERCOATS	2MAR88	6MAR88	21MAR88	24MAR88	16	
322H189A79	4	4	0	14	STEEL GATES INSTALLATION & PAINT UNDERCOATS	5MAR88	8MAR88	23MAR88	27MAR88	16	
322H190A79	4	4	0	15	STEEL GATES INSTALLATION & PAINT UNDERCOATS	7MAR88	10MAR88	24MAR88	29MAR88	15	
321H174A79	4	4	0	16	STEEL GATES INSTALLATION & PAINT UNDERCOATS	9MAR88	13MAR88	27MAR88	31MAR88	15	
321H175A79	4	4	0	17	STEEL GATES INSTALLATION & PAINT UNDERCOATS	12MAR88	15MAR88	29MAR88	2APR88	14	
320H176A79	4	4	0	18	STEEL GATES INSTALLATION & PAINT UNDERCOATS	14MAR88	17MAR88	31MAR88	4APR88	14	
320H177A79	4	4	0	19	STEEL GATES INSTALLATION & PAINT UNDERCOATS	15MAR88	19MAR88	2APR88	5APR88	14	
320H178A79	4	4	0	20	STEEL GATES INSTALLATION & PAINT UNDERCOATS	17MAR88	21MAR88	4APR88	7APR88	14	
214H031A79	4	4	0	21	STEEL GATES INSTALLATION & PAINT UNDERCOATS	20MAR88	23MAR88	5APR88	9APR88	13	
214H030A79	4	4	0	22	STEEL GATES INSTALLATION & PAINT UNDERCOATS	22MAR88	26MAR88	7APR88	11APR88	13	
214H029A79	4	4	0	23	STEEL GATES INSTALLATION & PAINT UNDERCOATS	24MAR88	29MAR88	9APR88	12APR88	12	
214H028A79	4	4	0	24	STEEL GATES INSTALLATION & PAINT UNDERCOATS	27MAR88	31MAR88	11APR88	14APR88	12	
215H027A79	4	4	0	25	STEEL GATES INSTALLATION & PAINT UNDERCOATS	30MAR88	3APR88	12APR88	16APR88	11	
215H026A79	4	4	0	26	STEEL GATES INSTALLATION & PAINT UNDERCOATS	31MAR88	4APR88	14APR88	18APR88	12	
215H025A79	4	4	0	27	STEEL GATES INSTALLATION & PAINT UNDERCOATS	3APR88	6APR88	16APR88	19APR88	11	
215H024A79	4	4	0	28	STEEL GATES INSTALLATION & PAINT UNDERCOATS	5APR88	9APR88	18APR88	21APR88	11	
215H023A79	4	4	0	29	STEEL GATES INSTALLATION & PAINT UNDERCOATS	7APR88	11APR88	19APR88	23APR88	10	
215H022A79	4	4	0	30	STEEL GATES INSTALLATION & PAINT UNDERCOATS	10APR88	13APR88	21APR88	25APR88	10	
216H021A79	4	4	0	31	STEEL GATES INSTALLATION & PAINT UNDERCOATS	12APR88	16APR88	23APR88	26APR88	9	
216H020A79	4	4	0	32	STEEL GATES INSTALLATION & PAINT UNDERCOATS	14APR88	18APR88	25APR88	28APR88	9	
216H019A79	4	4	0	33	STEEL GATES INSTALLATION & PAINT UNDERCOATS	16APR88	19APR88	26APR88	30APR88	9	
216H018A79	4	4	0	34	STEEL GATES INSTALLATION & PAINT UNDERCOATS	18APR88	21APR88	28APR88	2MAY88	9	
217H017A79	4	4	0	35	STEEL GATES INSTALLATION & PAINT UNDERCOATS	20APR88	24APR88	30APR88	3MAY88	8	
217H016A79	4	4	0	36	STEEL GATES INSTALLATION & PAINT UNDERCOATS	23APR88	26APR88	2MAY88	5MAY88	8	
218H015A79	4	4	0	37	STEEL GATES INSTALLATION & PAINT UNDERCOATS	25APR88	28APR88	3MAY88	7MAY88	7	
218H014A79	4	4	0	38	STEEL GATES INSTALLATION & PAINT UNDERCOATS	27APR88	1MAY88	5MAY88	9MAY88	7	
218H013A79	4	4	0	39	STEEL GATES INSTALLATION & PAINT UNDERCOATS	30APR88	3MAY88	7MAY88	10MAY88	6	
219H012A79	4	4	0	40	STEEL GATES INSTALLATION & PAINT UNDERCOATS	1MAY88	4MAY88	9MAY88	12MAY88	7	
219H011A79	4	4	0	41	STEEL GATES INSTALLATION & PAINT UNDERCOATS	3MAY88	7MAY88	10MAY88	14MAY88	6	
219H010A79	4	4	0	42	STEEL GATES INSTALLATION & PAINT UNDERCOATS	5MAY88	9MAY88	12MAY88	16MAY88	6	

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 42

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
220H009A79	4	4	0	43	STEEL GATES INSTALLATION & PAINT UNDERCOATS	8MAY88	11MAY88	14MAY88	17MAY88	5
220H008A79	4	4	0	44	STEEL GATES INSTALLATION & PAINT UNDERCOATS	10MAY88	14MAY88	16MAY88	19MAY88	5
220H007A79	4	4	0	45	STEEL GATES INSTALLATION & PAINT UNDERCOATS	12MAY88	16MAY88	17MAY88	21MAY88	4
220H006A79	4	4	0	46	STEEL GATES INSTALLATION & PAINT UNDERCOATS	15MAY88	18MAY88	19MAY88	23MAY88	4
220H005A79	4	4	0	47	STEEL GATES INSTALLATION & PAINT UNDERCOATS	16MAY88	19MAY88	21MAY88	24MAY88	4
220H004A79	4	4	0	48	STEEL GATES INSTALLATION & PAINT UNDERCOATS	18MAY88	22MAY88	23MAY88	26MAY88	4
221H003A79	4	4	0	49	STEEL GATES INSTALLATION & PAINT UNDERCOATS	21MAY88	24MAY88	24MAY88	28MAY88	3
221H002A79	4	4	0	50	STEEL GATES INSTALLATION & PAINT UNDERCOATS	23MAY88	26MAY88	28MAY88	1JUN88	4
221H001A79	4	4	0	51	STEEL GATES INSTALLATION & PAINT UNDERCOATS	25MAY88	29MAY88	28MAY88	1JUN88	4
211H044A80	1	1	0	01	EXTERNAL ELECTRICAL FITTINGS	6FEB88	6FEB88	3MAR88	3MAR88	22
211H043A80	1	1	0	02	EXTERNAL ELECTRICAL FITTINGS	7FEB88	7FEB88	6MAR88	6MAR88	23
211H042A80	1	1	0	03	EXTERNAL ELECTRICAL FITTINGS	8FEB88	8FEB88	7MAR88	7MAR88	23
213H035A80	1	1	0	04	EXTERNAL ELECTRICAL FITTINGS	17FEB88	17FEB88	9MAR88	9MAR88	17
213H036A80	1	1	0	05	EXTERNAL ELECTRICAL FITTINGS	18FEB88	18FEB88	10MAR88	10MAR88	17
213H037A80	1	1	0	06	EXTERNAL ELECTRICAL FITTINGS	20FEB88	20FEB88	13MAR88	13MAR88	18
213H032A80	1	1	0	07	EXTERNAL ELECTRICAL FITTINGS	23FEB88	23FEB88	14MAR88	14MAR88	16
213H033A80	1	1	0	08	EXTERNAL ELECTRICAL FITTINGS	27FEB88	27FEB88	16MAR88	16MAR88	19
213H034A80	1	1	0	09	EXTERNAL ELECTRICAL FITTINGS	29FEB88	29FEB88	17MAR88	17MAR88	15
223H185A80	1	1	0	10	EXTERNAL ELECTRICAL FITTINGS	2MAR88	2MAR88	20MAR88	20MAR88	15
223H186A80	1	1	0	11	EXTERNAL ELECTRICAL FITTINGS	5MAR88	5MAR88	21MAR88	21MAR88	14
223H187A80	1	1	0	12	EXTERNAL ELECTRICAL FITTINGS	6MAR88	6MAR88	23MAR88	23MAR88	15
222H189A80	1	1	0	13	EXTERNAL ELECTRICAL FITTINGS	8MAR88	8MAR88	24MAR88	24MAR88	14
222H188A80	1	1	0	14	EXTERNAL ELECTRICAL FITTINGS	10MAR88	10MAR88	27MAR88	27MAR88	14
222H190A80	1	1	0	15	EXTERNAL ELECTRICAL FITTINGS	13MAR88	13MAR88	29MAR88	29MAR88	13
321H174A80	1	1	0	16	EXTERNAL ELECTRICAL FITTINGS	15MAR88	15MAR88	31MAR88	31MAR88	13
321H175A80	1	1	0	17	EXTERNAL ELECTRICAL FITTINGS	17MAR88	17MAR88	2APR88	2APR88	12
320H176A80	1	1	0	18	EXTERNAL ELECTRICAL FITTINGS	20MAR88	20MAR88	4APR88	4APR88	12
320H177A80	1	1	0	19	EXTERNAL ELECTRICAL FITTINGS	21MAR88	21MAR88	5APR88	5APR88	12
320H178A80	1	1	0	20	EXTERNAL ELECTRICAL FITTINGS	23MAR88	23MAR88	7APR88	7APR88	12
214H031A80	1	1	0	21	EXTERNAL ELECTRICAL FITTINGS	26MAR88	26MAR88	9APR88	9APR88	11
214H030A80	1	1	0	22	EXTERNAL ELECTRICAL FITTINGS	29MAR88	29MAR88	11APR88	11APR88	11
214H029A80	1	1	0	23	EXTERNAL ELECTRICAL FITTINGS	31MAR88	31MAR88	12APR88	12APR88	10
214H028A80	1	1	0	24	EXTERNAL ELECTRICAL FITTINGS	3APR88	3APR88	14APR88	14APR88	10
215H027A80	1	1	0	25	EXTERNAL ELECTRICAL FITTINGS	5APR88	5APR88	16APR88	16APR88	9
215H026A80	1	1	0	26	EXTERNAL ELECTRICAL FITTINGS	6APR88	6APR88	18APR88	18APR88	10
215H025A80	1	1	0	27	EXTERNAL ELECTRICAL FITTINGS	9APR88	9APR88	19APR88	19APR88	9
215H024A80	1	1	0	28	EXTERNAL ELECTRICAL FITTINGS	11APR88	11APR88	21APR88	21APR88	9
215H023A80	1	1	0	29	EXTERNAL ELECTRICAL FITTINGS	13APR88	13APR88	23APR88	23APR88	8
215H022A80	1	1	0	30	EXTERNAL ELECTRICAL FITTINGS	16APR88	16APR88	25APR88	25APR88	8
216H021A80	1	1	0	31	EXTERNAL ELECTRICAL FITTINGS	18APR88	18APR88	26APR88	26APR88	7
216H020A80	1	1	0	32	EXTERNAL ELECTRICAL FITTINGS	20APR88	20APR88	28APR88	28APR88	7
216H019A80	1	1	0	33	EXTERNAL ELECTRICAL FITTINGS	21APR88	21APR88	30APR88	30APR88	7
216H018A80	1	1	0	34	EXTERNAL ELECTRICAL FITTINGS	24APR88	24APR88	2MAY88	2MAY88	7
217H017A80	1	1	0	35	EXTERNAL ELECTRICAL FITTINGS	26APR88	26APR88	3MAY88	3MAY88	6
217H016A80	1	1	0	36	EXTERNAL ELECTRICAL FITTINGS	28APR88	28APR88	5MAY88	5MAY88	6
218H015A80	1	1	0	37	EXTERNAL ELECTRICAL FITTINGS	1MAY88	1MAY88	7MAY88	7MAY88	5
218H014A80	1	1	0	38	EXTERNAL ELECTRICAL FITTINGS	3MAY88	3MAY88	9MAY88	9MAY88	5
218H013A80	1	1	0	39	EXTERNAL ELECTRICAL FITTINGS	5MAY88	5MAY88	10MAY88	10MAY88	5
219H012A80	1	1	0	40	EXTERNAL ELECTRICAL FITTINGS	7MAY88	7MAY88	12MAY88	12MAY88	4
219H011A80	1	1	0	41	EXTERNAL ELECTRICAL FITTINGS	9MAY88	9MAY88	14MAY88	14MAY88	4
219H010A80	1	1	0	42	EXTERNAL ELECTRICAL FITTINGS	11MAY88	11MAY88	16MAY88	16MAY88	4
220H009A80	1	1	0	43	EXTERNAL ELECTRICAL FITTINGS	14MAY88	14MAY88	17MAY88	17MAY88	3
220H008A80	1	1	0	44	EXTERNAL ELECTRICAL FITTINGS	16MAY88	16MAY88	19MAY88	19MAY88	3
220H007A80	1	1	0	45	EXTERNAL ELECTRICAL FITTINGS	18MAY88	18MAY88	21MAY88	21MAY88	2
220H006A80	1	1	0	46	EXTERNAL ELECTRICAL FITTINGS	21MAY88	21MAY88	23MAY88	23MAY88	2
220H005A80	1	1	0	47	EXTERNAL ELECTRICAL FITTINGS	22MAY88	22MAY88	24MAY88	24MAY88	2
220H004A80	1	1	0	48	EXTERNAL ELECTRICAL FITTINGS	24MAY88	24MAY88	26MAY88	26MAY88	2
221H003A80	1	1	0	49	EXTERNAL ELECTRICAL FITTINGS	26MAY88	26MAY88	28MAY88	28MAY88	1
221H002A80	1	1	0	50	EXTERNAL ELECTRICAL FITTINGS	29MAY88	29MAY88	31MAY88	31MAY88	1
221H001A80	1	1	0	51	EXTERNAL ELECTRICAL FITTINGS	1JUN88	1JUN88	1JUN88	1JUN88	0
211H044A81	1	1	0	01	ELECTRICAL & TELEPHONE NETWORKS TESTING	7FEB88	7FEB88	24MAR88	24MAR88	39
211H043A81	1	1	0	02	ELECTRICAL & TELEPHONE NETWORKS TESTING	8FEB88	8FEB88	26MAR88	26MAR88	39
211H042A81	1	1	0	03	ELECTRICAL & TELEPHONE NETWORKS TESTING	9FEB88	9FEB88	27MAR88	27MAR88	39
211H041A81	1	1	0	04	ELECTRICAL & TELEPHONE NETWORKS TESTING	18FEB88	18FEB88	30MAR88	30MAR88	33
211H039A81	1	1	0	05	ELECTRICAL & TELEPHONE NETWORKS TESTING	20FEB88	20FEB88	31MAR88	31MAR88	33
211H037A81	1	1	0	06	ELECTRICAL & TELEPHONE NETWORKS TESTING	21FEB88	21FEB88	2APR88	2APR88	33
211H035A81	1	1	0	07	ELECTRICAL & TELEPHONE NETWORKS TESTING	24FEB88	24FEB88	4APR88	4APR88	32
211H033A81	1	1	0	08	ELECTRICAL & TELEPHONE NETWORKS TESTING	28FEB88	28FEB88	5APR88	5APR88	31
211H031A81	1	1	0	09	ELECTRICAL & TELEPHONE NETWORKS TESTING	1MAR88	1MAR88	6APR88	6APR88	30
223H185A81	1	1	0	10	ELECTRICAL & TELEPHONE NETWORKS TESTING	3MAR88	3MAR88	9APR88	9APR88	30
223H186A81	1	1	0	11	ELECTRICAL & TELEPHONE NETWORKS TESTING	6MAR88	6MAR88	10APR88	10APR88	29
223H187A81	1	1	0	12	ELECTRICAL & TELEPHONE NETWORKS TESTING	7MAR88	7MAR88	11APR88	11APR88	29
222H189A81	1	1	0	13	ELECTRICAL & TELEPHONE NETWORKS TESTING	9MAR88	9MAR88	13APR88	13APR88	29
222H188A81	1	1	0	14	ELECTRICAL & TELEPHONE NETWORKS TESTING	12MAR88	12MAR88	14APR88	14APR88	28
222H190A81	1	1	0	15	ELECTRICAL & TELEPHONE NETWORKS TESTING	14MAR88	14MAR88	16APR88	16APR88	27
321H174A81	1	1	0	16	ELECTRICAL & TELEPHONE NETWORKS TESTING	16MAR88	16MAR88	18APR88	18APR88	27
321H175A81	1	1	0	17	ELECTRICAL & TELEPHONE NETWORKS TESTING	19MAR88	19MAR88	19APR88	19APR88	26
320H176A81	1	1	0	18	ELECTRICAL & TELEPHONE NETWORKS TESTING	21MAR88	21MAR88	20APR88	20APR88	25
320H177A81	1	1	0	19	ELECTRICAL & TELEPHONE NETWORKS TESTING	22MAR88	22MAR88	23APR88	23APR88	26
320H178A81	1	1	0	20	ELECTRICAL & TELEPHONE NETWORKS TESTING	24MAR88	24MAR88	24APR88	24APR88	25
214H031A81	1	1	0	21	ELECTRICAL & TELEPHONE NETWORKS TESTING	27MAR88	27MAR88	25APR88	25APR88	24
214H030A81	1	1	0	22	ELECTRICAL & TELEPHONE NETWORKS TESTING	30MAR88	30MAR88	27APR88	27APR88	24
214H029A81	1	1	0	23	ELECTRICAL & TELEPHONE NETWORKS TESTING	2APR88	2APR88	28APR88	28APR88	23
214H028A81	1	1	0	24	ELECTRICAL & TELEPHONE NETWORKS TESTING	4APR88	4APR88	30APR88	30APR88	22
215H027A81	1	1	0	25	ELECTRICAL & TELEPHONE NETWORKS TESTING	6APR88	6APR88	2MAY88	2MAY88	22
215H026A81	1	1	0	26	ELECTRICAL & TELEPHONE NETWORKS TESTING	7APR88	7APR88	3MAY88	3MAY88	22
215H025A81	1	1	0	27	ELECTRICAL & TELEPHONE NETWORKS TESTING	10APR88	10APR88	4MAY88	4MAY88	21
215H024A81	1	1	0	28	ELECTRICAL & TELEPHONE NETWORKS TESTING	12APR88	12APR88	7MAY88	7MAY88	21
215H023A81	1	1	0	29	ELECTRICAL & TELEPHONE NETWORKS TESTING	14APR88	14APR88	8MAY88	8MAY88	20
215H022A81	1	1	0	30	ELECTRICAL & TELEPHONE NETWORKS TESTING	17APR88	17APR88	9MAY88	9MAY88	19
216H021A81	1	1	0	31	ELECTRICAL & TELEPHONE NETWORKS TESTING	19APR88	19APR88	11MAY88	11MAY88	19
216H020A81	1	1	0	32	ELECTRICAL & TELEPHONE NETWORKS TESTING	21APR88	21APR88	12MAY88	12MAY88	18
216H019A81	1	1	0	33	ELECTRICAL & TELEPHONE NETWORKS TESTING	23APR88	23APR88	14MAY88	14MAY88	18
216H018A81	1	1	0	34	ELECTRICAL & TELEPHONE NETWORKS TESTING	25APR88	25APR88	16MAY88	16MAY88	17
217H017A81	1	1	0	35	ELECTRICAL & TELEPHONE NETWORKS TESTING	27APR88	27APR88	17MAY88	17MAY88	17
217H016A81	1	1	0	36	ELECTRICAL & TELEPHONE NETWORKS TESTING	30APR88	30APR88	18MAY88	18MAY88	16

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO 121
15:46

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 13AUG98

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR97 PAGE NO. 43

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
218H015A81	1	1	0	37	ELECTRICAL & TELEPHONE NETWORKS TESTING	2MAY88	2MAY88	21MAY88	21MAY88	16
218H014A81	1	1	0	38	ELECTRICAL & TELEPHONE NETWORKS TESTING	4MAY88	4MAY88	22MAY88	22MAY88	15
218H013A81	1	1	0	39	ELECTRICAL & TELEPHONE NETWORKS TESTING	7MAY88	7MAY88	23MAY88	23MAY88	14
219H012A81	1	1	0	40	ELECTRICAL & TELEPHONE NETWORKS TESTING	8MAY88	8MAY88	25MAY88	25MAY88	15
219H011A81	1	1	0	41	ELECTRICAL & TELEPHONE NETWORKS TESTING	10MAY88	10MAY88	26MAY88	26MAY88	14
219H010A81	1	1	0	42	ELECTRICAL & TELEPHONE NETWORKS TESTING	12MAY88	12MAY88	28MAY88	28MAY88	13
220H009A81	1	1	0	43	ELECTRICAL & TELEPHONE NETWORKS TESTING	15MAY88	15MAY88	31MAY88	31MAY88	13
220H008A81	1	1	0	44	ELECTRICAL & TELEPHONE NETWORKS TESTING	17MAY88	17MAY88	1JUN88	1JUN88	12
220H007A81	1	1	0	45	ELECTRICAL & TELEPHONE NETWORKS TESTING	19MAY88	19MAY88	2JUN88	2JUN88	11
220H006A81	1	1	0	46	ELECTRICAL & TELEPHONE NETWORKS TESTING	22MAY88	22MAY88	5JUN88	5JUN88	11
220H005A81	1	1	0	47	ELECTRICAL & TELEPHONE NETWORKS TESTING	23MAY88	23MAY88	6JUN88	6JUN88	11
220H004A81	1	1	0	48	ELECTRICAL & TELEPHONE NETWORKS TESTING	25MAY88	25MAY88	7JUN88	7JUN88	10
221H003A81	1	1	0	49	ELECTRICAL & TELEPHONE NETWORKS TESTING	28MAY88	28MAY88	9JUN88	9JUN88	10
221H002A81	1	1	0	50	ELECTRICAL & TELEPHONE NETWORKS TESTING	31MAY88	31MAY88	11JUN88	11JUN88	9
221H001A81	1	1	0	51	ELECTRICAL & TELEPHONE NETWORKS TESTING	2JUN88	2JUN88	12JUN88	12JUN88	8
211H044A82	3	3	0	01	LAST COAT OF PAINT	7FEB88	9FEB88	5MAR88	7MAR88	22
211H043A82	3	3	0	02	LAST COAT OF PAINT	8FEB88	10FEB88	7MAR88	9MAR88	23
211H042A82	3	3	0	03	LAST COAT OF PAINT	10FEB88	13FEB88	9MAR88	10MAR88	22
213H035A82	3	3	0	04	LAST COAT OF PAINT	18FEB88	21FEB88	10MAR88	13MAR88	17
213H036A82	3	3	0	05	LAST COAT OF PAINT	20FEB88	22FEB88	12MAR88	14MAR88	17
213H037A82	3	3	0	06	LAST COAT OF PAINT	22FEB88	24FEB88	14MAR88	16MAR88	17
213H032A82	3	3	0	07	LAST COAT OF PAINT	24FEB88	28FEB88	15MAR88	17MAR88	16
213H033A82	3	3	0	08	LAST COAT OF PAINT	28FEB88	1MAR88	17MAR88	20MAR88	16
213H034A82	3	3	0	09	LAST COAT OF PAINT	1MAR88	3MAR88	19MAR88	21MAR88	15
223H185A82	3	3	0	10	LAST COAT OF PAINT	3MAR88	6MAR88	21MAR88	23MAR88	15
223H186A82	3	3	0	11	LAST COAT OF PAINT	6MAR88	8MAR88	22MAR88	24MAR88	14
223H187A82	3	3	0	12	LAST COAT OF PAINT	7MAR88	9MAR88	24MAR88	27MAR88	15
222H188A82	3	3	0	13	LAST COAT OF PAINT	9MAR88	12MAR88	26MAR88	29MAR88	14
222H189A82	3	3	0	14	LAST COAT OF PAINT	12MAR88	14MAR88	29MAR88	31MAR88	14
222H190A82	3	3	0	15	LAST COAT OF PAINT	14MAR88	16MAR88	30MAR88	2APR88	13
321H174A82	3	3	0	16	LAST COAT OF PAINT	16MAR88	19MAR88	2APR88	4APR88	13
321H175A82	3	3	0	17	LAST COAT OF PAINT	19MAR88	21MAR88	3APR88	5APR88	12
320H176A82	3	3	0	18	LAST COAT OF PAINT	21MAR88	23MAR88	5APR88	7APR88	12
320H177A82	3	3	0	19	LAST COAT OF PAINT	22MAR88	24MAR88	6APR88	9APR88	12
320H178A82	3	3	0	20	LAST COAT OF PAINT	24MAR88	27MAR88	9APR88	11APR88	12
214H031A82	3	3	0	21	LAST COAT OF PAINT	27MAR88	30MAR88	10APR88	12APR88	11
214H030A82	3	3	0	22	LAST COAT OF PAINT	30MAR88	2APR88	12APR88	14APR88	11
214H029A82	3	3	0	23	LAST COAT OF PAINT	2APR88	4APR88	13APR88	16APR88	10
214H028A82	3	3	0	24	LAST COAT OF PAINT	4APR88	6APR88	16APR88	18APR88	10
215H027A82	3	3	0	25	LAST COAT OF PAINT	6APR88	9APR88	17APR88	19APR88	9
215H026A82	3	3	0	26	LAST COAT OF PAINT	7APR88	10APR88	19APR88	21APR88	10
215H025A82	3	3	0	27	LAST COAT OF PAINT	10APR88	12APR88	20APR88	23APR88	9
215H024A82	3	3	0	28	LAST COAT OF PAINT	12APR88	14APR88	23APR88	25APR88	9
215H023A82	3	3	0	29	LAST COAT OF PAINT	14APR88	17APR88	24APR88	26APR88	8
215H022A82	3	3	0	30	LAST COAT OF PAINT	17APR88	19APR88	26APR88	28APR88	8
216H021A82	3	3	0	31	LAST COAT OF PAINT	19APR88	21APR88	27APR88	30APR88	7
216H020A82	3	3	0	32	LAST COAT OF PAINT	21APR88	24APR88	30APR88	2MAY88	7
216H019A82	3	3	0	33	LAST COAT OF PAINT	23APR88	25APR88	1MAY88	3MAY88	7
216H018A82	3	3	0	34	LAST COAT OF PAINT	25APR88	27APR88	3MAY88	5MAY88	7
217H017A82	3	3	0	35	LAST COAT OF PAINT	27APR88	30APR88	4MAY88	7MAY88	6
217H016A82	3	3	0	36	LAST COAT OF PAINT	30APR88	2MAY88	7MAY88	9MAY88	6
218H015A82	3	3	0	37	LAST COAT OF PAINT	2MAY88	4MAY88	8MAY88	10MAY88	5
218H014A82	3	3	0	38	LAST COAT OF PAINT	4MAY88	7MAY88	10MAY88	12MAY88	5
218H013A82	3	3	0	39	LAST COAT OF PAINT	7MAY88	9MAY88	11MAY88	14MAY88	4
219H012A82	3	3	0	40	LAST COAT OF PAINT	8MAY88	10MAY88	14MAY88	16MAY88	5
219H011A82	3	3	0	41	LAST COAT OF PAINT	10MAY88	12MAY88	15MAY88	17MAY88	4
219H010A82	3	3	0	42	LAST COAT OF PAINT	12MAY88	15MAY88	17MAY88	19MAY88	4
220H009A82	3	3	0	43	LAST COAT OF PAINT	15MAY88	17MAY88	18MAY88	21MAY88	3
220H008A82	3	3	0	44	LAST COAT OF PAINT	17MAY88	19MAY88	21MAY88	23MAY88	3
220H007A82	3	3	0	45	LAST COAT OF PAINT	19MAY88	22MAY88	22MAY88	24MAY88	2
220H006A82	3	3	0	46	LAST COAT OF PAINT	22MAY88	24MAY88	24MAY88	26MAY88	2
220H005A82	3	3	0	47	LAST COAT OF PAINT	23MAY88	25MAY88	25MAY88	28MAY88	2
220H004A82	3	3	0	48	LAST COAT OF PAINT	25MAY88	28MAY88	28MAY88	31MAY88	2
221H003A82	3	3	0	49	LAST COAT OF PAINT	28MAY88	31MAY88	29MAY88	1JUN88	1
221H002A82	3	3	0	50	LAST COAT OF PAINT	31MAY88	2JUN88	2JUN88	5JUN88	2
221H001A82	3	3	0	51	LAST COAT OF PAINT	2JUN88	5JUN88	2JUN88	5JUN88	0
211H044A83	4	4	0	01	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	10FEB88	14FEB88	19MAR88	22MAR88	31
211H043A83	4	4	0	02	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	11FEB88	15FEB88	21MAR88	24MAR88	32
211H042A83	4	4	0	03	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	14FEB88	17FEB88	21MAR88	24MAR88	30
213H035A83	4	4	0	04	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	22FEB88	27FEB88	23MAR88	27MAR88	25
213H036A83	4	4	0	05	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	23FEB88	28FEB88	26MAR88	30MAR88	26
213H037A83	4	4	0	06	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	27FEB88	1MAR88	26MAR88	30MAR88	24
213H032A83	4	4	0	07	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	29FEB88	3MAR88	29MAR88	2APR88	24
213H033A83	4	4	0	08	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	2MAR88	6MAR88	31MAR88	4APR88	24
213H034A83	4	4	0	09	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	5MAR88	8MAR88	31MAR88	4APR88	22
223H185A83	4	4	0	10	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	7MAR88	10MAR88	3APR88	6APR88	22
223H186A83	4	4	0	11	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	9MAR88	13MAR88	5APR88	9APR88	22
223H187A83	4	4	0	12	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	10MAR88	14MAR88	5APR88	9APR88	21
222H188A83	4	4	0	13	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	13MAR88	16MAR88	7APR88	11APR88	21
222H189A83	4	4	0	14	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	15MAR88	19MAR88	10APR88	13APR88	21
222H190A83	4	4	0	15	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	17MAR88	21MAR88	10APR88	13APR88	19
321H174A83	4	4	0	16	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	20MAR88	23MAR88	12APR88	16APR88	19
321H175A83	4	4	0	17	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	22MAR88	26MAR88	14APR88	18APR88	19
320H176A83	4	4	0	18	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	24MAR88	29MAR88	14APR88	18APR88	17
320H177A83	4	4	0	19	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	26MAR88	30MAR88	17APR88	20APR88	18
320H178A83	4	4	0	20	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	29MAR88	2APR88	19APR88	23APR88	18
214H031A83	4	4	0	21	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	31MAR88	4APR88	19APR88	23APR88	16
214H030A83	4	4	0	22	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	3APR88	6APR88	21APR88	25APR88	16
214H029A83	4	4	0	23	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	5APR88	9APR88	24APR88	27APR88	16
214H028A83	4	4	0	24	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	7APR88	11APR88	24APR88	27APR88	14
215H027A83	4	4	0	25	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	10APR88	13APR88	26APR88	30APR88	14
215H026A83	4	4	0	26	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	11APR88	14APR88	28APR88	2MAY88	15
215H025A83	4	4	0	27	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	13APR88	17APR88	28APR88	2MAY88	13
215H024A83	4	4	0	28	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	16APR88	19APR88	1MAY88	4MAY88	13
215H023A83	4	4	0	29	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	18APR88	21APR88	3MAY88	7MAY88	13
215H022A83	4	4	0	30	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	20APR88	24APR88	3MAY88	7MAY88	11

Figure 9.13 - Case 2, Baseline Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 121

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 13AUG88

15:46

Baseline Schedule by Typical Activity & ES

DATA DATE 1APR87 PAGE NO. 44

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
216H021A83	4	4	0	31	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	23APR88	26APR88	5MAY88	9MAY88	11
216H020A83	4	4	0	32	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	25APR88	28APR88	8MAY88	11MAY88	11
216H019A83	4	4	0	33	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	26APR88	30APR88	8MAY88	11MAY88	10
216H018A83	4	4	0	34	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	28APR88	2MAY88	10MAY88	14MAY88	10
217H017A83	4	4	0	35	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	1MAY88	4MAY88	12MAY88	16MAY88	10
217H016A83	4	4	0	36	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	3MAY88	7MAY88	12MAY88	16MAY88	8
218H015A83	4	4	0	37	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	5MAY88	9MAY88	15MAY88	19MAY88	8
218H014A83	4	4	0	38	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	8MAY88	11MAY88	17MAY88	21MAY88	8
218H013A83	4	4	0	39	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	10MAY88	14MAY88	17MAY88	21MAY88	6
219H012A83	4	4	0	40	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	11MAY88	15MAY88	19MAY88	23MAY88	7
219H011A83	4	4	0	41	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	14MAY88	17MAY88	22MAY88	25MAY88	7
219H010A83	4	4	0	42	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	16MAY88	19MAY88	22MAY88	25MAY88	5
220H009A83	4	4	0	43	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	18MAY88	22MAY88	24MAY88	28MAY88	5
220H008A83	4	4	0	44	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	21MAY88	24MAY88	26MAY88	31MAY88	5
220H007A83	4	4	0	45	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	23MAY88	26MAY88	26MAY88	31MAY88	3
220H006A83	4	4	0	46	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	25MAY88	29MAY88	29MAY88	2JUN88	3
220H005A83	4	4	0	47	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	26MAY88	31MAY88	1JUN88	5JUN88	4
220H004A83	4	4	0	48	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	29MAY88	2JUN88	2JUN88	5JUN88	2
221H003A83	4	4	0	49	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	3JUN88	5JUN88	4JUN88	7JUN88	2
221H002A83	4	4	0	50	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	4JUN88	7JUN88	6JUN88	9JUN88	2
221H001A83	4	4	0	51	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	6JUN88	9JUN88	6JUN88	9JUN88	0
211H044A84	2	2	0	01	HOUSE FINAL CLEANING	15FEB88	16FEB88	23MAR88	24MAR88	31
211H043A84	2	2	0	02	HOUSE FINAL CLEANING	16FEB88	17FEB88	26MAR88	27MAR88	32
211H042A84	2	2	0	03	HOUSE FINAL CLEANING	18FEB88	20FEB88	26MAR88	27MAR88	30
213H035A84	2	2	0	04	HOUSE FINAL CLEANING	28FEB88	29FEB88	29MAR88	30MAR88	25
213H034A84	2	2	0	05	HOUSE FINAL CLEANING	29FEB88	1MAR88	31MAR88	2APR88	26
213H033A84	2	2	0	06	HOUSE FINAL CLEANING	2MAR88	3MAR88	31MAR88	2APR88	24
213H032A84	2	2	0	07	HOUSE FINAL CLEANING	5MAR88	6MAR88	3APR88	4APR88	24
213H031A84	2	2	0	08	HOUSE FINAL CLEANING	7MAR88	8MAR88	5APR88	6APR88	24
213H030A84	2	2	0	09	HOUSE FINAL CLEANING	9MAR88	10MAR88	5APR88	6APR88	22
213H029A84	2	2	0	10	HOUSE FINAL CLEANING	12MAR88	13MAR88	7APR88	9APR88	22
213H028A84	2	2	0	11	HOUSE FINAL CLEANING	14MAR88	15MAR88	10APR88	11APR88	22
213H027A84	2	2	0	12	HOUSE FINAL CLEANING	15MAR88	16MAR88	10APR88	11APR88	21
213H026A84	2	2	0	13	HOUSE FINAL CLEANING	17MAR88	19MAR88	12APR88	13APR88	21
213H025A84	2	2	0	14	HOUSE FINAL CLEANING	20MAR88	21MAR88	14APR88	16APR88	21
213H024A84	2	2	0	15	HOUSE FINAL CLEANING	22MAR88	23MAR88	14APR88	16APR88	19
213H023A84	2	2	0	16	HOUSE FINAL CLEANING	24MAR88	26MAR88	17APR88	18APR88	19
213H022A84	2	2	0	17	HOUSE FINAL CLEANING	27MAR88	29MAR88	19APR88	20APR88	19
213H021A84	2	2	0	18	HOUSE FINAL CLEANING	30MAR88	31MAR88	19APR88	20APR88	17
213H020A84	2	2	0	19	HOUSE FINAL CLEANING	31MAR88	2APR88	21APR88	23APR88	18
213H019A84	2	2	0	20	HOUSE FINAL CLEANING	3APR88	4APR88	24APR88	25APR88	18
213H018A84	2	2	0	21	HOUSE FINAL CLEANING	5APR88	6APR88	24APR88	25APR88	16
213H017A84	2	2	0	22	HOUSE FINAL CLEANING	7APR88	9APR88	26APR88	27APR88	16
213H016A84	2	2	0	23	HOUSE FINAL CLEANING	10APR88	11APR88	28APR88	30APR88	16
213H015A84	2	2	0	24	HOUSE FINAL CLEANING	12APR88	13APR88	28APR88	30APR88	14
213H014A84	2	2	0	25	HOUSE FINAL CLEANING	14APR88	16APR88	1MAY88	2MAY88	14
213H013A84	2	2	0	26	HOUSE FINAL CLEANING	16APR88	17APR88	3MAY88	4MAY88	15
213H012A84	2	2	0	27	HOUSE FINAL CLEANING	18APR88	19APR88	3MAY88	4MAY88	13
213H011A84	2	2	0	28	HOUSE FINAL CLEANING	20APR88	21APR88	5MAY88	7MAY88	13
213H010A84	2	2	0	29	HOUSE FINAL CLEANING	23APR88	24APR88	8MAY88	9MAY88	13
213H009A84	2	2	0	30	HOUSE FINAL CLEANING	25APR88	26APR88	8MAY88	9MAY88	11
216H021A84	2	2	0	31	HOUSE FINAL CLEANING	27APR88	28APR88	10MAY88	11MAY88	11
216H020A84	2	2	0	32	HOUSE FINAL CLEANING	30APR88	1MAY88	12MAY88	14MAY88	11
216H019A84	2	2	0	33	HOUSE FINAL CLEANING	1MAY88	2MAY88	12MAY88	14MAY88	10
216H018A84	2	2	0	34	HOUSE FINAL CLEANING	3MAY88	4MAY88	15MAY88	16MAY88	10
217H017A84	2	2	0	35	HOUSE FINAL CLEANING	5MAY88	7MAY88	17MAY88	18MAY88	10
217H016A84	2	2	0	36	HOUSE FINAL CLEANING	8MAY88	9MAY88	17MAY88	18MAY88	8
218H015A84	2	2	0	37	HOUSE FINAL CLEANING	10MAY88	11MAY88	19MAY88	21MAY88	8
218H014A84	2	2	0	38	HOUSE FINAL CLEANING	12MAY88	14MAY88	22MAY88	23MAY88	8
218H013A84	2	2	0	39	HOUSE FINAL CLEANING	15MAY88	16MAY88	22MAY88	23MAY88	6
218H012A84	2	2	0	40	HOUSE FINAL CLEANING	16MAY88	17MAY88	24MAY88	25MAY88	7
218H011A84	2	2	0	41	HOUSE FINAL CLEANING	18MAY88	19MAY88	26MAY88	28MAY88	7
218H010A84	2	2	0	42	HOUSE FINAL CLEANING	21MAY88	22MAY88	26MAY88	28MAY88	5
220H009A84	2	2	0	43	HOUSE FINAL CLEANING	23MAY88	24MAY88	29MAY88	31MAY88	5
220H008A84	2	2	0	44	HOUSE FINAL CLEANING	25MAY88	26MAY88	1JUN88	2JUN88	5
220H007A84	2	2	0	45	HOUSE FINAL CLEANING	28MAY88	29MAY88	1JUN88	2JUN88	3
220H006A84	2	2	0	46	HOUSE FINAL CLEANING	31MAY88	1JUN88	4JUN88	5JUN88	3
220H005A84	2	2	0	47	HOUSE FINAL CLEANING	1JUN88	2JUN88	6JUN88	7JUN88	4
220H004A84	2	2	0	48	HOUSE FINAL CLEANING	4JUN88	5JUN88	6JUN88	7JUN88	2
221H003A84	2	2	0	49	HOUSE FINAL CLEANING	6JUN88	7JUN88	8JUN88	9JUN88	2
221H002A84	2	2	0	50	HOUSE FINAL CLEANING	8JUN88	9JUN88	11JUN88	12JUN88	2
221H001A84	2	2	0	51	HOUSE FINAL CLEANING	11JUN88	12JUN88	11JUN88	12JUN88	0
211H044A85	4	4	0	01	FINAL PAINT & TOUCH-UPS	17FEB88	21FEB88	29MAR88	2APR88	33
211H043A85	4	4	0	02	FINAL PAINT & TOUCH-UPS	18FEB88	22FEB88	29MAR88	2APR88	32
211H042A85	4	4	0	03	FINAL PAINT & TOUCH-UPS	21FEB88	24FEB88	29MAR88	2APR88	30
213H035A85	4	4	0	04	FINAL PAINT & TOUCH-UPS	1MAR88	5MAR88	3APR88	6APR88	27
213H034A85	4	4	0	05	FINAL PAINT & TOUCH-UPS	2MAR88	6MAR88	3APR88	6APR88	26
213H033A85	4	4	0	06	FINAL PAINT & TOUCH-UPS	5MAR88	8MAR88	3APR88	6APR88	24
213H032A85	4	4	0	07	FINAL PAINT & TOUCH-UPS	7MAR88	10MAR88	7APR88	11APR88	26
213H031A85	4	4	0	08	FINAL PAINT & TOUCH-UPS	9MAR88	13MAR88	7APR88	11APR88	24
213H030A85	4	4	0	09	FINAL PAINT & TOUCH-UPS	12MAR88	15MAR88	7APR88	11APR88	22
213H029A85	4	4	0	10	FINAL PAINT & TOUCH-UPS	14MAR88	17MAR88	12APR88	16APR88	22
213H028A85	4	4	0	11	FINAL PAINT & TOUCH-UPS	16MAR88	20MAR88	12APR88	16APR88	24
213H027A85	4	4	0	12	FINAL PAINT & TOUCH-UPS	17MAR88	21MAR88	12APR88	16APR88	21
213H026A85	4	4	0	13	FINAL PAINT & TOUCH-UPS	20MAR88	23MAR88	12APR88	20APR88	23
213H025A85	4	4	0	14	FINAL PAINT & TOUCH-UPS	22MAR88	26MAR88	17APR88	20APR88	21
213H024A85	4	4	0	15	FINAL PAINT & TOUCH-UPS	24MAR88	29MAR88	17APR88	20APR88	19
213H023A85	4	4	0	16	FINAL PAINT & TOUCH-UPS	27MAR88	31MAR88	21APR88	25APR88	21
213H022A85	4	4	0	17	FINAL PAINT & TOUCH-UPS	30MAR88	3APR88	21APR88	25APR88	19
213H021A85	4	4	0	18	FINAL PAINT & TOUCH-UPS	2APR88	5APR88	21APR88	25APR88	17
213H020A85	4	4	0	19	FINAL PAINT & TOUCH-UPS	3APR88	6APR88	26APR88	30APR88	20
213H019A85	4	4	0	20	FINAL PAINT & TOUCH-UPS	5APR88	9APR88	26APR88	30APR88	18
213H018A85	4	4	0	21	FINAL PAINT & TOUCH-UPS	7APR88	11APR88	26APR88	30APR88	16
213H017A85	4	4	0	22	FINAL PAINT & TOUCH-UPS	10APR88	13APR88	1MAY88	4MAY88	18
213H016A85	4	4	0	23	FINAL PAINT & TOUCH-UPS	12APR88	16APR88	1MAY88	4MAY88	16
213H015A85	4	4	0	24	FINAL PAINT & TOUCH-UPS	14APR88	18APR88	1MAY88	4MAY88	14

Figure 9.13 - Case 2, Baseline Schedule (Continued).

SAUD & ERPAHIM ALABDULRAZZAK EST. PRIMAVERA PROJECT PLANNER JAHRA 1 HOUSING PROJECT common act

REPORT DATE 21SEP95 RUN NO. 121 SEVEN SEAS, CONSTRUCTION OF 51 HOUSES START DATE 1APR87 FIN DATE 13AUG88

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Baseline Schedule by Typical Activity & ES DATA DATE 1APR87 PAGE NO. 45

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
215H027A85	4	4	0	25	FINAL PAINT & TOUCH-UPS	17APR88	20APR88	5MAY88	9MAY88	16
215H026A85	4	4	0	26	FINAL PAINT & TOUCH-UPS	18APR88	21APR88	5MAY88	9MAY88	15
215H025A85	4	4	0	27	FINAL PAINT & TOUCH-UPS	20APR88	24APR88	5MAY88	9MAY88	13
215H024A85	4	4	0	28	FINAL PAINT & TOUCH-UPS	23APR88	26APR88	10MAY88	14MAY88	15
215H023A85	4	4	0	29	FINAL PAINT & TOUCH-UPS	25APR88	28APR88	10MAY88	14MAY88	13
215H022A85	4	4	0	30	FINAL PAINT & TOUCH-UPS	27APR88	1MAY88	10MAY88	14MAY88	11
216H021A85	4	4	0	31	FINAL PAINT & TOUCH-UPS	30APR88	3MAY88	15MAY88	18MAY88	13
216H020A85	4	4	0	32	FINAL PAINT & TOUCH-UPS	2MAY88	5MAY88	15MAY88	18MAY88	11
216H019A85	4	4	0	33	FINAL PAINT & TOUCH-UPS	3MAY88	7MAY88	15MAY88	18MAY88	10
216H018A85	4	4	0	34	FINAL PAINT & TOUCH-UPS	5MAY88	9MAY88	19MAY88	23MAY88	12
217H017A85	4	4	0	35	FINAL PAINT & TOUCH-UPS	8MAY88	11MAY88	19MAY88	23MAY88	10
217H016A85	4	4	0	36	FINAL PAINT & TOUCH-UPS	10MAY88	14MAY88	19MAY88	23MAY88	8
218H015A85	4	4	0	37	FINAL PAINT & TOUCH-UPS	12MAY88	16MAY88	24MAY88	28MAY88	10
218H014A85	4	4	0	38	FINAL PAINT & TOUCH-UPS	15MAY88	18MAY88	24MAY88	28MAY88	8
218H013A85	4	4	0	39	FINAL PAINT & TOUCH-UPS	17MAY88	21MAY88	24MAY88	28MAY88	6
219H012A85	4	4	0	40	FINAL PAINT & TOUCH-UPS	18MAY88	22MAY88	29MAY88	2JUN88	9
219H011A85	4	4	0	41	FINAL PAINT & TOUCH-UPS	21MAY88	24MAY88	29MAY88	2JUN88	7
219H010A85	4	4	0	42	FINAL PAINT & TOUCH-UPS	23MAY88	26MAY88	29MAY88	2JUN88	5
220H009A85	4	4	0	43	FINAL PAINT & TOUCH-UPS	25MAY88	29MAY88	4JUN88	7JUN88	7
220H008A85	4	4	0	44	FINAL PAINT & TOUCH-UPS	28MAY88	1JUN88	4JUN88	7JUN88	5
220H007A85	4	4	0	45	FINAL PAINT & TOUCH-UPS	31MAY88	4JUN88	4JUN88	7JUN88	3
220H006A85	4	4	0	46	FINAL PAINT & TOUCH-UPS	2JUN88	6JUN88	8JUN88	12JUN88	5
220H005A85	4	4	0	47	FINAL PAINT & TOUCH-UPS	4JUN88	7JUN88	8JUN88	12JUN88	4
220H004A85	4	4	0	48	FINAL PAINT & TOUCH-UPS	6JUN88	9JUN88	8JUN88	12JUN88	2
221H003A85	4	4	0	49	FINAL PAINT & TOUCH-UPS	8JUN88	12JUN88	13JUN88	16JUN88	4
221H002A85	4	4	0	50	FINAL PAINT & TOUCH-UPS	11JUN88	14JUN88	13JUN88	16JUN88	2
221H001A85	4	4	0	51	FINAL PAINT & TOUCH-UPS	13JUN88	16JUN88	13JUN88	16JUN88	0
211H043A86	0	0	0	01	HOUSE COMPLETION	21FEB88			16JUN88	97
211H042A86	0	0	0	02	HOUSE COMPLETION	22FEB88			16JUN88	96
211H041A86	0	0	0	03	HOUSE COMPLETION	24FEB88			16JUN88	94
213H035A86	0	0	0	04	HOUSE COMPLETION	5MAR88			16JUN88	87
213H034A86	0	0	0	05	HOUSE COMPLETION	6MAR88			16JUN88	86
213H033A86	0	0	0	06	HOUSE COMPLETION	8MAR88			16JUN88	84
213H032A86	0	0	0	07	HOUSE COMPLETION	10MAR88			16JUN88	82
213H031A86	0	0	0	08	HOUSE COMPLETION	13MAR88			16JUN88	80
213H030A86	0	0	0	09	HOUSE COMPLETION	15MAR88			16JUN88	78
223H185A86	0	0	0	10	HOUSE COMPLETION	17MAR88			16JUN88	76
223H186A86	0	0	0	11	HOUSE COMPLETION	20MAR88			16JUN88	74
223H187A86	0	0	0	12	HOUSE COMPLETION	21MAR88			16JUN88	73
222H188A86	0	0	0	13	HOUSE COMPLETION	23MAR88			16JUN88	71
222H189A86	0	0	0	14	HOUSE COMPLETION	26MAR88			16JUN88	69
222H190A86	0	0	0	15	HOUSE COMPLETION	29MAR88			16JUN88	67
221H174A86	0	0	0	16	HOUSE COMPLETION	31MAR88			16JUN88	65
321H175A86	0	0	0	17	HOUSE COMPLETION	3APR88			16JUN88	63
320H176A86	0	0	0	18	HOUSE COMPLETION	5APR88			16JUN88	61
320H177A86	0	0	0	19	HOUSE COMPLETION	6APR88			16JUN88	60
320H178A86	0	0	0	20	HOUSE COMPLETION	9APR88			16JUN88	58
214H031A86	0	0	0	21	HOUSE COMPLETION	11APR88			16JUN88	56
214H030A86	0	0	0	22	HOUSE COMPLETION	13APR88			16JUN88	54
214H029A86	0	0	0	23	HOUSE COMPLETION	16APR88			16JUN88	52
214H028A86	0	0	0	24	HOUSE COMPLETION	18APR88			16JUN88	50
215H027A86	0	0	0	25	HOUSE COMPLETION	20APR88			16JUN88	48
215H026A86	0	0	0	26	HOUSE COMPLETION	21APR88			16JUN88	47
215H025A86	0	0	0	27	HOUSE COMPLETION	24APR88			16JUN88	45
215H024A86	0	0	0	28	HOUSE COMPLETION	26APR88			16JUN88	43
215H023A86	0	0	0	29	HOUSE COMPLETION	28APR88			16JUN88	41
215H022A86	0	0	0	30	HOUSE COMPLETION	1MAY88			16JUN88	39
216H021A86	0	0	0	31	HOUSE COMPLETION	3MAY88			16JUN88	37
216H020A86	0	0	0	32	HOUSE COMPLETION	5MAY88			16JUN88	35
216H019A86	0	0	0	33	HOUSE COMPLETION	7MAY88			16JUN88	34
216H018A86	0	0	0	34	HOUSE COMPLETION	9MAY88			16JUN88	32
217H017A86	0	0	0	35	HOUSE COMPLETION	11MAY88			16JUN88	30
217H016A86	0	0	0	36	HOUSE COMPLETION	14MAY88			16JUN88	28
218H015A86	0	0	0	37	HOUSE COMPLETION	16MAY88			16JUN88	26
218H014A86	0	0	0	38	HOUSE COMPLETION	18MAY88			16JUN88	24
218H013A86	0	0	0	39	HOUSE COMPLETION	21MAY88			16JUN88	22
219H012A86	0	0	0	40	HOUSE COMPLETION	22MAY88			16JUN88	21
219H011A86	0	0	0	41	HOUSE COMPLETION	24MAY88			16JUN88	19
219H010A86	0	0	0	42	HOUSE COMPLETION	26MAY88			16JUN88	17
220H009A86	0	0	0	43	HOUSE COMPLETION	29MAY88			16JUN88	15
220H008A86	0	0	0	44	HOUSE COMPLETION	1JUN88			16JUN88	13
220H007A86	0	0	0	45	HOUSE COMPLETION	4JUN88			16JUN88	11
220H006A86	0	0	0	46	HOUSE COMPLETION	6JUN88			16JUN88	9
220H005A86	0	0	0	47	HOUSE COMPLETION	7JUN88			16JUN88	8
220H004A86	0	0	0	48	HOUSE COMPLETION	9JUN88			16JUN88	6
221H003A86	0	0	0	49	HOUSE COMPLETION	12JUN88			16JUN88	4
221H002A86	0	0	0	50	HOUSE COMPLETION	14JUN88			16JUN88	2
221H001A86	0	0	0	51	HOUSE COMPLETION	16JUN88			16JUN88	0

Figure 9.13 - Case 2, Baseline Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST. PRIMAVERA PROJECT PLANNER JAHRA 3 HOUSING PROJECT comm org seq

REPORT DATE 18SEP95 RUN NO. 125 SEVEN SHAS, CONSTRUCTION OF 51 HOUSES START DATE 1APR87 FIN DATE 24DEC88

17:30

Last Activity Sorted by EF and Original Priority DATA DATE 1FEB88 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	SCHEDULED FINISH
211H043A86	0	0	0	02	HOUSE COMPLETION	6AUG88
211H042A86	0	0	0	03	HOUSE COMPLETION	6AUG88
321H174A86	0	0	0	16	HOUSE COMPLETION	8AUG88
321H175A86	0	0	0	17	HOUSE COMPLETION	17AUG88
211H044A86	0	0	0	01	HO' 1E COMPLETION	21AUG88
323H185A86	0	0	0	10	HC SE COMPLETION	28AUG88
323H186A86	0	0	0	11	HOUSE COMPLETION	31AUG88
323H187A86	0	0	0	12	HOUSE COMPLETION	31AUG88
214H031A86	0	0	0	21	HOUSE COMPLETION	8SEP88
214H030A86	0	0	0	22	HOUSE COMPLETION	8SEP88
214H029A86	0	0	0	23	HOUSE COMPLETION	8SEP88
214H028A86	0	0	0	24	HOUSE COMPLETION	8SEP88
216H020A86	0	0	0	32	HOUSE COMPLETION	8SEP88
216H019A86	0	0	0	33	HOUSE COMPLETION	8SEP88
216H018A86	0	0	0	34	HOUSE COMPLETION	8SEP88
218H015A86	0	0	0	37	HOUSE COMPLETION	11SEP88
218H014A86	0	0	0	38	HOUSE COMPLETION	13SEP88
322H188A86	0	0	0	13	HOUSE COMPLETION	18SEP88
218H013A86	0	0	0	39	HOUSE COMPLETION	18SEP88
322H189A86	0	0	0	14	HOUSE COMPLETION	20SEP88
322H190A86	0	0	0	15	HOUSE COMPLETION	21SEP88
213H035A86	0	0	0	04	HOUSE COMPLETION	22SEP88
213H036A86	0	0	0	05	HOUSE COMPLETION	22SEP88
213H037A86	0	0	0	06	HOUSE COMPLETION	22SEP88
213H032A86	0	0	0	07	HOUSE COMPLETION	22SEP88
213H033A86	0	0	0	08	HOUSE COMPLETION	22SEP88
213H034A86	0	0	0	09	HOUSE COMPLETION	22SEP88
216H021A86	0	0	0	31	HOUSE COMPLETION	22SEP88
219H011A86	0	0	0	41	HOUSE COMPLETION	22SEP88
219H010A86	0	0	0	42	HOUSE COMPLETION	22SEP88
220H007A86	0	0	0	45	HOUSE COMPLETION	22SEP88
219H012A86	0	0	0	40	HOUSE COMPLETION	24SEP88
217H017A86	0	0	0	35	HOUSE COMPLETION	25SEP88
217H016A86	0	0	0	36	HOUSE COMPLETION	26SEP88
221H003A86	0	0	0	49	HOUSE COMPLETION	29SEP88
221H002A86	0	0	0	50	HOUSE COMPLETION	29SEP88
221H001A86	0	0	0	51	HOUSE COMPLETION	29SEP88
220H009A86	0	0	0	43	HOUSE COMPLETION	3OCT88
220H008A86	0	0	0	44	HOUSE COMPLETION	3OCT88
220H006A86	0	0	0	46	HOUSE COMPLETION	11OCT88
220H005A86	0	0	0	47	HOUSE COMPLETION	15OCT88
220H004A86	0	0	0	48	HOUSE COMPLETION	15OCT88
320H176A86	0	0	0	18	HOUSE COMPLETION	25OCT88
320H177A86	0	0	0	19	HOUSE COMPLETION	25OCT88
320H178A86	0	0	0	20	HOUSE COMPLETION	25OCT88
215H027A86	0	0	0	25	HOUSE COMPLETION	29OCT88
215H026A86	0	0	0	26	HOUSE COMPLETION	29OCT88
215H025A86	0	0	0	27	HOUSE COMPLETION	29OCT88
215H024A86	0	0	0	28	HOUSE COMPLETION	29OCT88
215H023A86	0	0	0	29	HOUSE COMPLETION	29OCT88
215H022A86	0	0	0	30	HOUSE COMPLETION	29OCT88

Figure 9.14 - Case 2, Current Sequence of Operation, as Indicated by House Projected Completions.

REPORT DATE 3NOV95 RUN NO. 142

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 21FEB89

19:22

31/1/88 Update, Criticals by Typical Act & ES

DATA DATE 1FEB88 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
Y	18	18	0		CONTRACTOR'S CONTINGENCY	27DEC88	17JAN89	27DEC88	17JAN89	0
Z	30	30	0		HANDOVERS & DEMOBILIZATION	18JAN89	21FEB89	18JAN89	21FEB89	0
211H044A11	9	5	50	05	GF LOFT WALLS & SLABS	1FEB88	6FEB88	1FEB88	6FEB88	0
214H030A11	9	9	0	10	GF LOFT WALLS & SLABS	7FEB88	16FEB88	7FEB88	16FEB88	0
216H018A11	9	9	0	15	GF LOFT WALLS & SLABS	17FEB88	28FEB88	17FEB88	28FEB88	0
322H188A11	9	9	0	19	GF LOFT WALLS & SLABS	29FEB88	9MAR88	29FEB88	9MAR88	0
213H032A11	9	9	0	25	GF LOFT WALLS & SLABS	10MAR88	20MAR88	10MAR88	20MAR88	0
219H011A11	9	9	0	29	GF LOFT WALLS & SLABS	21MAR88	31MAR88	21MAR88	31MAR88	0
217H016A11	9	9	0	34	GF LOFT WALLS & SLABS	2APR88	11APR88	2APR88	11APR88	0
220H008A11	9	9	0	39	GF LOFT WALLS & SLABS	12APR88	21APR88	12APR88	21APR88	0
213H032A12	12	12	0	25	GF ROOF	21MAR88	4APR88	21MAR88	4APR88	0
219H011A12	12	12	0	29	GF ROOF	2APR88	14APR88	2APR88	14APR88	0
217H016A12	12	12	0	34	GF ROOF	12APR88	25APR88	12APR88	25APR88	0
221H001A12	12	12	0	37	GF ROOF	19APR88	2MAY88	19APR88	2MAY88	0
220H008A12	12	12	0	39	GF ROOF	23APR88	5MAY88	23APR88	5MAY88	0
220H004A12	12	12	0	42	GF ROOF	30APR88	12MAY88	30APR88	12MAY88	0
215H026A12	12	12	0	47	GF ROOF	10MAY88	23MAY88	10MAY88	23MAY88	0
215H023A12	12	12	0	50	GF ROOF	17MAY88	31MAY88	17MAY88	31MAY88	0
213H032A14	9	9	0	25	FF LOFT WALLS & SLABS	5APR88	14APR88	5APR88	14APR88	0
219H011A14	9	9	0	29	FF LOFT WALLS & SLABS	16APR88	25APR88	16APR88	25APR88	0
217H016A14	9	9	0	34	FF LOFT WALLS & SLABS	26APR88	5MAY88	26APR88	5MAY88	0
221H001A14	9	9	0	37	FF LOFT WALLS & SLABS	3MAY88	12MAY88	3MAY88	12MAY88	0
220H008A14	9	9	0	39	FF LOFT WALLS & SLABS	7MAY88	16MAY88	7MAY88	16MAY88	0
220H004A14	9	9	0	42	FF LOFT WALLS & SLABS	14MAY88	23MAY88	14MAY88	23MAY88	0
215H026A14	9	9	0	47	FF LOFT WALLS & SLABS	24MAY88	4JUN88	24MAY88	4JUN88	0
215H023A14	9	9	0	50	FF LOFT WALLS & SLABS	1JUN88	11JUN88	1JUN88	11JUN88	0
213H032A15	12	12	0	25	FF ROOF	16APR88	28APR88	16APR88	28APR88	0
219H011A15	12	12	0	29	FF ROOF	26APR88	9MAY88	26APR88	9MAY88	0
217H016A15	12	12	0	34	FF ROOF	7MAY88	19MAY88	7MAY88	19MAY88	0
221H001A15	12	12	0	37	FF ROOF	14MAY88	26MAY88	14MAY88	26MAY88	0
220H008A15	12	12	0	39	FF ROOF	17MAY88	31MAY88	17MAY88	31MAY88	0
220H004A15	12	12	0	42	FF ROOF	24MAY88	7JUN88	24MAY88	7JUN88	0
215H026A15	12	12	0	47	FF ROOF	5JUN88	18JUN88	5JUN88	18JUN88	0
215H023A15	12	12	0	50	FF ROOF	12JUN88	25JUN88	12JUN88	25JUN88	0
213H032A20	21	21	0	25	GF & FF CEMENT BLOCK WORKS	14MAY88	7JUN88	14MAY88	7JUN88	0
219H011A20	21	21	0	29	GF & FF CEMENT BLOCK WORKS	24MAY88	18JUN88	24MAY88	18JUN88	0
217H016A20	21	21	0	34	GF & FF CEMENT BLOCK WORKS	5JUN88	28JUN88	5JUN88	28JUN88	0
221H001A20	21	21	0	37	GF & FF CEMENT BLOCK WORKS	12JUN88	5JUL88	12JUN88	5JUL88	0
220H008A20	21	21	0	39	GF & FF CEMENT BLOCK WORKS	15JUN88	9JUL88	15JUN88	9JUL88	0
220H004A20	21	21	0	42	GF & FF CEMENT BLOCK WORKS	22JUN88	16JUL88	22JUN88	16JUL88	0
215H026A20	21	21	0	47	GF & FF CEMENT BLOCK WORKS	3JUL88	26JUL88	3JUL88	26JUL88	0
215H023A20	21	21	0	50	GF & FF CEMENT BLOCK WORKS	10JUL88	2AUG88	10JUL88	2AUG88	0
213H032A23	21	21	0	25	SANDLINE BRICKS CLADDING	8JUN88	8JUN88	8JUN88	8JUN88	0
219H011A23	21	21	0	29	SANDLINE BRICKS CLADDING	19JUN88	12JUL88	19JUN88	12JUL88	0
219H010A23	21	21	0	30	SANDLINE BRICKS CLADDING	21JUN88	14JUL88	21JUN88	14JUL88	0
217H016A23	21	21	0	34	SANDLINE BRICKS CLADDING	29JUN88	23JUL88	29JUN88	23JUL88	0
221H003A23	21	21	0	35	SANDLINE BRICKS CLADDING	2JUL88	25JUL88	2JUL88	25JUL88	0
221H002A23	21	21	0	36	SANDLINE BRICKS CLADDING	4JUL88	27JUL88	4JUL88	27JUL88	0
221H001A23	21	21	0	37	SANDLINE BRICKS CLADDING	6JUL88	30JUL88	6JUL88	30JUL88	0
220H008A23	21	21	0	39	SANDLINE BRICKS CLADDING	10JUL88	2AUG88	10JUL88	2AUG88	0
220H006A23	21	21	0	40	SANDLINE BRICKS CLADDING	12JUL88	3JUL88	12JUL88	3JUL88	0
220H005A23	21	21	0	41	SANDLINE BRICKS CLADDING	14JUL88	8AUG88	14JUL88	8AUG88	0
220H004A23	21	21	0	42	SANDLINE BRICKS CLADDING	17JUL88	10AUG88	17JUL88	10AUG88	0
320H176A23	21	21	0	43	SANDLINE BRICKS CLADDING	19JUL88	13AUG88	19JUL88	13AUG88	0
320H178A23	21	21	0	45	SANDLINE BRICKS CLADDING	23JUL88	16AUG88	23JUL88	16AUG88	0
215H027A23	21	21	0	46	SANDLINE BRICKS CLADDING	25JUL88	18AUG88	25JUL88	18AUG88	0
215H026A23	21	21	0	47	SANDLINE BRICKS CLADDING	27JUL88	21AUG88	27JUL88	21AUG88	0
215H025A23	21	21	0	48	SANDLINE BRICKS CLADDING	30JUL88	23AUG88	30JUL88	23AUG88	0
215H024A23	21	21	0	49	SANDLINE BRICKS CLADDING	1AUG88	27AUG88	1AUG88	27AUG88	0
215H023A23	21	21	0	50	SANDLINE BRICKS CLADDING	3AUG88	29AUG88	3AUG88	29AUG88	0
215H022A23	21	21	0	51	SANDLINE BRICKS CLADDING	6AUG88	30AUG88	6AUG88	30AUG88	0
213H032A33	24	24	0	25	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	3JUL88	30JUL88	3JUL88	30JUL88	0
216H021A33	24	24	0	28	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	11JUL88	8AUG88	11JUL88	8AUG88	0
219H011A33	24	24	0	29	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	13JUL88	10AUG88	13JUL88	10AUG88	0
219H010A33	24	24	0	30	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	16JUL88	13AUG88	16JUL88	13AUG88	0
217H017A33	24	24	0	33	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	21JUL88	18AUG88	21JUL88	18AUG88	0
217H016A33	24	24	0	34	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	24JUL88	21AUG88	24JUL88	21AUG88	0
221H003A33	24	24	0	35	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	26JUL88	23AUG88	26JUL88	23AUG88	0
221H002A33	24	24	0	36	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	28JUL88	27AUG88	28JUL88	27AUG88	0
221H001A33	24	24	0	37	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	31JUL88	29AUG88	31JUL88	29AUG88	0
220H009A33	24	24	0	38	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	1AUG88	30AUG88	1AUG88	30AUG88	0
220H005A33	24	24	0	41	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	9AUG88	6SEP88	9AUG88	6SEP88	0
220H004A33	24	24	0	42	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	11AUG88	8SEP88	11AUG88	8SEP88	0
320H176A33	24	24	0	43	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	14AUG88	11SEP88	14AUG88	11SEP88	0
215H027A33	24	24	0	46	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	20AUG88	17SEP88	20AUG88	17SEP88	0
215H026A33	24	24	0	47	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	22AUG88	19SEP88	22AUG88	19SEP88	0
215H025A33	24	24	0	48	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	24AUG88	21SEP88	24AUG88	21SEP88	0
215H024A33	24	24	0	49	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	28AUG88	24SEP88	28AUG88	24SEP88	0
215H023A33	24	24	0	50	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	30AUG88	26SEP88	30AUG88	26SEP88	0
215H022A33	24	24	0	51	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	31AUG88	27SEP88	31AUG88	27SEP88	0
221H002A40	6	6	0	36	YARD PLUMBING PRECAST MANHOLE	28AUG88	1SEP88	28AUG88	1SEP88	0
221H001A40	6	6	0	37	YARD PLUMBING PRECAST MANHOLE	30AUG88	3ASEP88	30AUG88	3SEP88	0
220H005A40	6	6	0	41	YARD PLUMBING PRECAST MANHOLE	7SEP88	13SEP88	7SEP88	13SEP88	0
220H004A40	6	6	0	42	YARD PLUMBING PRECAST MANHOLE	10SEP88	15SEP88	10SEP88	15SEP88	0
320H176A40	6	6	0	43	YARD PLUMBING PRECAST MANHOLE	12SEP88	18SEP88	12SEP88	18SEP88	0
215H027A40	6	6	0	46	YARD PLUMBING PRECAST MANHOLE	18SEP88	24SEP88	18SEP88	24SEP88	0
215H026A40	6	6	0	47	YARD PLUMBING PRECAST MANHOLE	20SEP88	26SEP88	20SEP88	26SEP88	0
215H025A40	6	6	0	48	YARD PLUMBING PRECAST MANHOLE	22SEP88	28SEP88	22SEP88	28SEP88	0
215H024A40	6	6	0	49	YARD PLUMBING PRECAST MANHOLE	25SEP88	1OCT88	25SEP88	1OCT88	0
215H023A40	6	6	0	50	YARD PLUMBING PRECAST MANHOLE	27SEP88	3OCT88	27SEP88	3OCT88	0
215H022A40	6	6	0	51	YARD PLUMBING PRECAST MANHOLE	28SEP88	4OCT88	28SEP88	4OCT88	0
221H002A54	10	10	0	36	YARD PLUMBING PIPES	4SEP88	14SEP88	4SEP88	14SEP88	0
221H001A54	10	10	0	37	YARD PLUMBING PIPES	6SEP88	17SEP88	6SEP88	17SEP88	0
220H005A54	10	10	0	41	YARD PLUMBING PIPES	14SEP88	25SEP88	14SEP88	25SEP88	0
220H004A54	10	10	0	42	YARD PLUMBING PIPES	17SEP88	27SEP88	17SEP88	27SEP88	0
320H176A54	10	10	0	43	YARD PLUMBING PIPES	19SEP88	29SEP88	19SEP88	29SEP88	0

Figure 9.15 - Case 2, Status and Schedule Update as of January 31, 1988.

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
215H027A54	10	10	0	46	YARD PLUMBING PIPES	25SEP88	50CT88	25SEP88	50CT88	0
215H026A54	10	10	0	47	YARD PLUMBING PIPES	27SEP88	80CT88	27SEP88	80CT88	0
215H025A54	10	10	0	48	YARD PLUMBING PIPES	29SEP88	100CT88	29SEP88	100CT88	0
215H024A54	10	10	0	49	YARD PLUMBING PIPES	20CT88	120CT88	20CT88	120CT88	0
215H023A54	10	10	0	50	YARD PLUMBING PIPES	40CT88	150CT88	40CT88	150CT88	0
215H022A54	10	10	0	51	YARD PLUMBING PIPES	50CT88	160CT88	50CT88	160CT88	0
221H002A57	7	7	0	36	YARD ELECTRICAL PIPES & HANDHOLES	15SEP88	22SEP88	15SEP88	22SEP88	0
221H001A57	7	7	0	37	YARD ELECTRICAL PIPES & HANDHOLES	18SEP88	25SEP88	18SEP88	25SEP88	0
220H005A57	7	7	0	41	YARD ELECTRICAL PIPES & HANDHOLES	26SEP88	30CT88	26SEP88	30CT88	0
220H004A57	7	7	0	42	YARD ELECTRICAL PIPES & HANDHOLES	28SEP88	50CT88	28SEP88	50CT88	0
320H176A57	7	7	0	43	YARD ELECTRICAL PIPES & HANDHOLES	10CT88	80CT88	10CT88	80CT88	0
215H027A57	7	7	0	46	YARD ELECTRICAL PIPES & HANDHOLES	60CT88	130CT88	60CT88	130CT88	0
215H026A57	7	7	0	47	YARD ELECTRICAL PIPES & HANDHOLES	90CT88	160CT88	90CT88	160CT88	0
215H025A57	7	7	0	48	YARD ELECTRICAL PIPES & HANDHOLES	110CT88	180CT88	110CT88	180CT88	0
215H024A57	7	7	0	49	YARD ELECTRICAL PIPES & HANDHOLES	130CT88	200CT88	130CT88	200CT88	0
215H023A57	7	7	0	50	YARD ELECTRICAL PIPES & HANDHOLES	160CT88	230CT88	160CT88	230CT88	0
215H022A57	7	7	0	51	YARD ELECTRICAL PIPES & HANDHOLES	170CT88	240CT88	170CT88	240CT88	0
221H002A64	10	10	0	36	YARD EARTH WORKS & PLAIN CONCRETE	24SEP88	40CT88	24SEP88	40CT88	0
220H005A64	10	10	0	41	YARD EARTH WORKS & PLAIN CONCRETE	40CT88	150CT88	40CT88	150CT88	0
320H176A64	10	10	0	43	YARD EARTH WORKS & PLAIN CONCRETE	90CT88	190CT88	90CT88	190CT88	0
215H027A64	10	10	0	46	YARD EARTH WORKS & PLAIN CONCRETE	150CT88	250CT88	150CT88	250CT88	0
215H025A64	10	10	0	48	YARD EARTH WORKS & PLAIN CONCRETE	190CT88	300CT88	190CT88	300CT88	0
215H024A64	10	10	0	49	YARD EARTH WORKS & PLAIN CONCRETE	220CT88	1NOV88	220CT88	1NOV88	0
215H023A64	10	10	0	50	YARD EARTH WORKS & PLAIN CONCRETE	240CT88	3NOV88	240CT88	3NOV88	0
215H022A64	10	10	0	51	YARD EARTH WORKS & PLAIN CONCRETE	250CT88	5NOV88	250CT88	5NOV88	0
221H002A71	9	9	0	36	BRICK WORKS OF BOUNDARY WALL	50CT88	150CT88	50CT88	150CT88	0
220H005A71	9	9	0	41	BRICK WORKS OF BOUNDARY WALL	160CT88	250CT88	160CT88	250CT88	0
320H176A71	9	9	0	43	BRICK WORKS OF BOUNDARY WALL	200CT88	300CT88	200CT88	300CT88	0
215H027A71	9	9	0	46	BRICK WORKS OF BOUNDARY WALL	260CT88	5NOV88	260CT88	5NOV88	0
215H025A71	9	9	0	48	BRICK WORKS OF BOUNDARY WALL	310CT88	9NOV88	310CT88	9NOV88	0
215H024A71	9	9	0	49	BRICK WORKS OF BOUNDARY WALL	2NOV88	12NOV88	2NOV88	12NOV88	0
215H023A71	9	9	0	50	BRICK WORKS OF BOUNDARY WALL	5NOV88	14NOV88	5NOV88	14NOV88	0
215H022A71	9	9	0	51	BRICK WORKS OF BOUNDARY WALL	6NOV88	15NOV88	6NOV88	15NOV88	0
215H025A72	6	6	0	48	BOUNDARY WALL CAST IN SITU COPING	10NOV88	16NOV88	10NOV88	16NOV88	0
215H024A72	6	6	0	49	BOUNDARY WALL CAST IN SITU COPING	13NOV88	19NOV88	13NOV88	19NOV88	0
215H023A72	6	6	0	50	BOUNDARY WALL CAST IN SITU COPING	15NOV88	21NOV88	15NOV88	21NOV88	0
215H022A72	6	6	0	51	BOUNDARY WALL CAST IN SITU COPING	16NOV88	22NOV88	16NOV88	22NOV88	0
215H025A74	10	10	0	48	YARD TERRAZZO TILES & MASTIC WORKS	17NOV88	28NOV88	17NOV88	28NOV88	0
215H024A74	10	10	0	49	YARD TERRAZZO TILES & MASTIC WORKS	20NOV88	30NOV88	20NOV88	30NOV88	0
215H023A74	10	10	0	50	YARD TERRAZZO TILES & MASTIC WORKS	22NOV88	3DEC88	22NOV88	3DEC88	0
215H022A74	10	10	0	51	YARD TERRAZZO TILES & MASTIC WORKS	23NOV88	4DEC88	23NOV88	4DEC88	0
215H025A77	5	5	0	48	ALUMINUM EXTERNAL FALSE CEILING	29NOV88	4DEC88	29NOV88	4DEC88	0
215H024A77	5	5	0	49	ALUMINUM EXTERNAL FALSE CEILING	1DEC88	6DEC88	1DEC88	6DEC88	0
215H023A77	5	5	0	50	ALUMINUM EXTERNAL FALSE CEILING	4DEC88	8DEC88	4DEC88	8DEC88	0
215H022A77	5	5	0	51	ALUMINUM EXTERNAL FALSE CEILING	5DEC88	10DEC88	5DEC88	10DEC88	0
215H024A80	1	1	0	49	EXTERNAL ELECTRICAL FITTINGS	7DEC88	7DEC88	7DEC88	7DEC88	0
215H023A80	1	1	0	50	EXTERNAL ELECTRICAL FITTINGS	10DEC88	10DEC88	10DEC88	10DEC88	0
215H022A80	1	1	0	51	EXTERNAL ELECTRICAL FITTINGS	11DEC88	11DEC88	11DEC88	11DEC88	0
215H024A82	3	3	0	49	LAST COAT OF PAINT	8DEC88	11DEC88	8DEC88	11DEC88	0
215H022A82	3	3	0	51	LAST COAT OF PAINT	12DEC88	14DEC88	12DEC88	14DEC88	0
215H022A83	4	4	0	51	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	15DEC88	19DEC88	15DEC88	19DEC88	0
215H022A84	2	2	0	51	HOUSE FINAL CLEANING	20DEC88	21DEC88	20DEC88	21DEC88	0
215H022A85	4	4	0	51	FINAL PAINT & TOUCH-UPS	22DEC88	26DEC88	22DEC88	26DEC88	0
215H022A86	0	0	0	51	HOUSE COMPLETION		26DEC88		26DEC88	0

Figure 9.15 - Case 2, Status and Schedule Update as of January 31, 1988 (Continued).

Sheet 1 of 1

Figure 9.16 - Case 2, Correcting Out-of-Sequence Progress Versus Ignoring it in Leveling Resources.

Typical Activities

51 Houses

Figure 9.17 - Case 2, Progress Regularity as of January 31, 1988.

SAUD & EBRAHIM ALABDULRAZZAK EST.

PRIMAVERA PROJECT PLANNER

Correcting Out-of-Logic Progress NSq

REPORT DATE 3NOV95 RUN NO. 206
20:42

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

11/1/88, Last Act by EF & Priority (Cur. Seq.)

DATA DATE 1FEB88 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	SCHEDULED FINISH
211H043A86	0	0	0	01	HOUSE COMPLETION	25JUL88
211H042A86	0	0	0	02	HOUSE COMPLETION	25JUL88
321H174A86	0	0	0	03	HOUSE COMPLETION	27JUL88
321H175A86	0	0	0	04	HOUSE COMPLETION	31JUL88
211H044A86	0	0	0	05	HOUSE COMPLETION	3AUG88
323H185A86	0	0	0	06	HOUSE COMPLETION	9AUG88
323H186A86	0	0	0	07	HOUSE COMPLETION	9AUG88
323H187A86	0	0	0	08	HOUSE COMPLETION	10AUG88
214H030A86	0	0	0	10	HOUSE COMPLETION	16AUG88
214H029A86	0	0	0	11	HOUSE COMPLETION	16AUG88
214H028A86	0	0	0	12	HOUSE COMPLETION	16AUG88
214H031A86	0	0	0	09	HOUSE COMPLETION	17AUG88
216H020A86	0	0	0	13	HOUSE COMPLETION	17AUG88
216H019A86	0	0	0	14	HOUSE COMPLETION	17AUG88
216H018A86	0	0	0	15	HOUSE COMPLETION	17AUG88
218H015A86	0	0	0	16	HOUSE COMPLETION	20AUG88
218H014A86	0	0	0	17	HOUSE COMPLETION	22AUG88
218H013A86	0	0	0	18	HOUSE COMPLETION	28AUG88
322H188A86	0	0	0	19	HOUSE COMPLETION	28AUG88
322H189A86	0	0	0	20	HOUSE COMPLETION	30AUG88
322H190A86	0	0	0	21	HOUSE COMPLETION	31AUG88
216H021A86	0	0	0	28	HOUSE COMPLETION	1SEP88
219H010A86	0	0	0	30	HOUSE COMPLETION	1SEP88
220H007A86	0	0	0	31	HOUSE COMPLETION	1SEP88
213H015A86	0	0	0	22	HOUSE COMPLETION	10SEP88
213H036A86	0	0	0	23	HOUSE COMPLETION	10SEP88
213H037A86	0	0	0	24	HOUSE COMPLETION	10SEP88
213H032A86	0	0	0	25	HOUSE COMPLETION	10SEP88
213H033A86	0	0	0	26	HOUSE COMPLETION	10SEP88
213H034A86	0	0	0	27	HOUSE COMPLETION	10SEP88
219H011A86	0	0	0	29	HOUSE COMPLETION	10SEP88
219H012A86	0	0	0	32	HOUSE COMPLETION	11SEP88
217H017A86	0	0	0	33	HOUSE COMPLETION	12SEP88
217H016A86	0	0	0	34	HOUSE COMPLETION	13SEP88
221H003A86	0	0	0	35	HOUSE COMPLETION	17SEP88
221H002A86	0	0	0	36	HOUSE COMPLETION	17SEP88
221H001A86	0	0	0	37	HOUSE COMPLETION	17SEP88
220H009A86	0	0	0	38	HOUSE COMPLETION	20SEP88
220H008A86	0	0	0	39	HOUSE COMPLETION	20SEP88
220H006A86	0	0	0	40	HOUSE COMPLETION	28SEP88
220H005A86	0	0	0	41	HOUSE COMPLETION	2OCT88
220H004A86	0	0	0	42	HOUSE COMPLETION	2OCT88
320H176A86	0	0	0	43	HOUSE COMPLETION	12OCT88
320H177A86	0	0	0	44	HOUSE COMPLETION	12OCT88
320H178A86	0	0	0	45	HOUSE COMPLETION	12OCT88
215H027A86	0	0	0	46	HOUSE COMPLETION	16OCT88
215H026A86	0	0	0	47	HOUSE COMPLETION	16OCT88
215H025A86	0	0	0	48	HOUSE COMPLETION	16OCT88
215H024A86	0	0	0	49	HOUSE COMPLETION	16OCT88
215H023A86	0	0	0	50	HOUSE COMPLETION	16OCT88
215H022A86	0	0	0	51	HOUSE COMPLETION	16OCT88

Figure 9.18 - Case 2, New Sequence after Correcting Out-of-Logic Progress.

							Current							Normalized
						Quantity of	first	Last					Independent	Independent
Typical	Activity title	Activity	Resource	Resource	Resource	uncompleted	activity	activity	Taa	Ria	Sma	Sma	rate	rate
activity		duration	Resource	lag	duration	activities	EF	LF	(9) - (8)	((7) - 1) + Taa	(11) x (6)	rounded	(13) + (6)	(14) x .3106 + (11)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
01	PLOT CLEARANCE	1	CR01	0	1	0								
02	EXCAVATION & LAYOUT	5	CR02	0	5	0								
03	PLAIN CONCRETE FOR FOOTINGS	3	CR03	0	3	0								
04	R.C. FOOTINGS	6	CR04	0	6	0								
05	COLUMN NECKS	8	CR05	0	8	0								
06	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	8	CR06	0	8	2	266	361	36	0.0281	0.225	1	0.125	1.3827
07	PLAIN CONCRETE UNDER GROUND BEAMS	4	CR07	0	4	9	270	365	95	0.0842	0.337	1	0.250	0.9220
08	GROUND BEAMS	13	CR08	0	13	14	264	378	114	0.1140	1.482	2	0.154	0.4190
09	2nd BACKFILL & SLAB ON GRADE	6	CR09	0	6	20	262	384	122	0.1557	0.934	1	0.167	0.3324
10	GF COLUMNS	7	CR10	0	7	27	268	391	123	0.2114	1.480	2	0.286	0.4198
11	GF LOFT WALLS & SLABS	9	CR11	0	9	48	266	473	207	0.2271	2.043	3	0.333	0.4559
12	GF ROOF	12	CR12	0	12	36	263	403	140	0.2500	3.000	3	0.250	0.3106
13	FF COLUMNS	7	CR13	0	7	44	262	410	148	0.2905	2.034	3	0.429	0.4581
14	FF LOFT WALLS & SLABS	9	CR14	0	9	51	270	473	203	0.2463	2.217	3	0.333	0.4203
15	FF ROOF	12	CR15	0	12	49	263	422	159	0.3019	3.623	4	0.333	0.3429
16	PENTHOUSE COLUMNS & ROOF	9	CR16	0	9	51	270	431	161	0.3106	2.795	3	0.333	0.3333
17	R.C. COLUMNS OF PARAPETS	7	CR17	0	7	51	268	443	175	0.2857	2.000	2	0.286	0.3106
18	PRECAST WINDOWS ERECTION	3	CR18	0	3	51	276	477	201	0.2488	0.746	1	0.333	0.4161
19	BLOCK WORKS OF PARAPETS	5	CR19	0	5	51	273	448	175	0.2857	1.429	2	0.400	0.4348
20	GF & FF CEMENT BLOCK WORKS	21	CR20	0	21	Split into two activities: A91 and A92								
21	BLOCK WORKS OF PENTHOUSE	5	CR21	0	5	51	287	448	161	0.3106	1.553	2	0.400	0.4000
22	ROOF DRAINS	3	CR22	0	3	51	290	495	205	0.2439	0.732	1	0.333	0.4244
23	SANDLINE BRICKS CLADDING	21	CR23	0	21	51	308	469	161	0.3106	6.522	7	0.333	0.3333
24	ELECTRICAL MAIN SWITCH BOARD	4	CR24	0	4	51	291	563	272	0.1838	0.735	1	0.250	0.4224
25	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	7	CR25	0	7	51	288	484	196	0.2551	1.786	2	0.286	0.3478
26	CAST IRON SANITARY PIPES	10	CR26	0	10	51	291	483	192	0.2604	2.604	3	0.300	0.3578
27	PLASTERING PREPARATION	13	CR27	0	13	51	301	497	196	0.2551	3.316	4	0.308	0.3746
28	GALVANIZED WATER SUPPLY PIPES	10	CR28	0	10	51	301	493	192	0.2604	2.604	3	0.300	0.3578
29	MARBLE FRAMES	6	CR29	0	6	51	299	497	198	0.2515	1.515	2	0.333	0.4099
30	WOODEN FRAMES	4	CR30	0	4	51	298	497	199	0.2513	1.005	2	0.500	0.6180
31	BLOCK WORKS OF CHASES	6	CR31	0	6	51	307	501	194	0.2577	1.546	2	0.333	0.4017

Table 9.3 - Case 2, Calculation of Min. Quantity of Resources to Complete by March 30, 1989.

Table 9.3 - Case 2, Calculation of Min. Quantity of Resources to Complete by March 30, 1989 (Continued).

						Quantity of	Current							Normalized
Typical		Activity		Resource	Resource	uncompleted	first	Last					Independent	Independent
activity	Activity title	duration	Resource	lag	duration	activities	EF	LF	Taa	Ria	Sma	Sma	rate	rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
64	YARD EARTH WORKS & PLAIN CONCRETE	10	CR64	0	10	51	365	526	161	0.3106	3.106	4	0.400	0.4000
65	INTERNAL MAIN CABLES	2	CR65	0	2	51	357	565	208	0.2404	0.481	1	0.500	0.5460
66	ELECTRICAL HOUSE CONNECTION	3	CR66	0	3	51	358	570	212	0.2358	0.708	1	0.333	0.4389
67	IRONMONGERY WORKS FOR WOODEN DOORS	3	CR67	0	3	51	360	557	197	0.2538	0.761	1	0.333	0.4079
68	INTERNAL ELECTRICAL FITTINGS	4	CR68	0	4	51	361	557	196	0.2551	1.020	2	0.500	0.6087
69	SANITARY FIXTURES & ACCESSORIES	6	CR69	0	6	51	363	557	194	0.2577	1.546	2	0.333	0.4017
70	ALUMINUM ACCESSORIES	4	CR70	0	4	51	361	557	196	0.2551	1.020	2	0.500	0.6087
71	BRICK WORKS OF BOUNDARY WALL	9	CR71	0	9	51	374	535	161	0.3106	2.795	3	0.333	0.3333
72	BOUNDARY WALL CAST IN SITU COPING	6	CR72	0	6	51	380	541	161	0.3106	1.863	2	0.333	0.3333
73	WATER SUPPLY HOUSE CONNECTION	1	CR73	0	1	51	375	570	195	0.2564	0.256	1	1.000	1.2112
74	YARD TERRAZZO TILES & MASTIC WORKS	10	CR74	0	10	51	390	551	161	0.3106	3.106	4	0.400	0.4000
75	FRAMES & FINISHES OF YARD HAND/MANHOLES	5	CR75	0	5	51	385	549	164	0.3049	1.524	2	0.400	0.4075
76	PLUMBING NETWORKS TESTING	2	CR76	0	2	51	387	566	179	0.2793	0.559	1	0.500	0.5559
77	ALUMINUM EXTERNAL FALSE CEILING	5	CR77	0	5	51	395	556	161	0.3106	1.553	2	0.400	0.4000
78	AGRICULTURAL SOIL	3	CR78	0	3	51	393	564	171	0.2924	0.877	1	0.333	0.3540
79	STEEL GATES INSTALLATION & PAINT UNDERCOATS	4	CR79	0	4	51	394	557	163	0.3067	1.227	2	0.500	0.5062
80	EXTERNAL ELECTRICAL FITTINGS	1	CR80	0	1	51	396	557	161	0.3106	0.311	1	1.000	1.0000
81	ELECTRICAL & TELEPHONE NETWORKS TESTING	1	CR81	0	1	51	397	566	169	0.2959	0.296	1	1.000	1.0497
82	LAST COAT OF PAINT	3	CR82	0	3	51	399	560	161	0.3106	0.932	1	0.333	0.3333
83	INT.& EXT. TERRAZZO TILES GRINDING & POLISHING	4	CR83	0	4	51	403	564	161	0.3106	1.242	2	0.500	0.5000
84	HOUSE FINAL CLEANING	2	CR84	0	2	51	405	566	161	0.3106	0.621	1	0.500	0.5000
85	FINAL PAINT & TOUCHE-UPS	4	CR85	0	4	51	409	570	161	0.3106	1.242	2	0.500	0.5000
91	GF CEMENT BLOCK WORKS	9	CR91	0	9	44	274	448	174	0.2471	2.224	3	0.333	0.4189
92	FF CEMENT BLOCK WORKS	12	CR92	0	12	51	281	448	167	0.2994	3.593	4	0.333	0.3458
23	SANDLINE BRICKS CLADDING	21	SCAFFOLD	10	11	51	308	469	161	0.3106	3.416	4	0.364	0.3636
10	GF COLUMNS	7	SH10	0	9	27	268	391	123	0.2114	1.902	2	0.222	0.3265
12	GF ROOF	12	SH12	0	24	36	263	403	140	0.2500	6.000	6	0.250	0.3106
13	FF COLUMNS	7	SH13	0	9	44	262	410	148	0.2905	2.615	3	0.333	0.3563
15	FF ROOF	12	SH15	0	24	49	263	422	159	0.3019	7.245	8	0.333	0.3429
16	PENTHOUSE COLUMNS & ROOF	9	SH16	0	21	51	270	431	161	0.3106	6.522	7	0.333	0.3333
33	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	24	SH33	18	7	51	332	493	161	0.3106	2.174	3	0.429	0.4286

Table 9.3 - Case 2, Calculation of Min. Quantity of Resources to Complete by March 30, 1989 (Continued).

Typical activity	Activity title	Activity duration	Resource	Resource lag	Resource duration	Quantity of uncompleted activities	Current first activity EF	Last activity LF	Taa	Ria	Sma	Sma rounded	Independent rate	Normalized independent rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
32	PLASTERING	8	CR32	0	8	51	309	505	196	0.2551	2.041	3	0.375	0.4565
33	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	24	CR33	0	24	51	332	493	161	0.3106	7.453	8	0.333	0.3333
34	PARAPETS COPING & TANK SUPPORTS	6	CR34	0	6	51	314	514	200	0.2500	1.500	2	0.333	0.4141
35	PORCELAIN WALL TILES	12	CR35	0	12	51	319	513	194	0.2577	3.093	4	0.333	0.4017
36	ROOF FOAM & SCREED	10	CR36	0	10	51	324	524	200	0.2500	2.500	3	0.300	0.3727
37	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	6	CR37	0	6	51	315	523	208	0.2404	1.442	2	0.333	0.4306
39	TERRAZZO FLOOR TILES & SKIRTING	13	CR39	0	13	51	322	518	196	0.2551	3.316	4	0.308	0.3746
40	ROOF WATER PROOFING LAYERS	6	CR40	0	6	51	330	530	200	0.2500	1.500	2	0.333	0.4141
41	SANITARY FITTINGS (Floor Embedded)	4	CR41	0	4	51	323	517	194	0.2577	1.031	2	0.500	0.6025
42	MARBLE STAIRS & SKIRTING	6	CR42	0	6	51	328	524	196	0.2551	1.531	2	0.333	0.4058
43	JOINERY WORKS	4	CR43	0	4	51	326	530	204	0.2451	0.980	1	0.250	0.3168
44	WATERPROOFING IN WET FLOOR AREAS	6	CR44	0	6	51	329	523	194	0.2577	1.546	2	0.333	0.4017
45	ROOF EMBEDDED DRAINAGE PIPES	2	CR45	0	2	51	332	534	202	0.2475	0.495	1	0.500	0.6273
46	BOUNDARY WALL REIN. CONC. COLUMNS	7	CR46	0	7	51	339	516	177	0.2825	1.977	2	0.286	0.3141
47	PRECAST UNITS OF BOUNDARY WALL	3	CR47	0	3	51	335	526	191	0.2618	0.785	1	0.333	0.3954
48	YARD PLUMBING PRECAST MANHOLE	6	CR48	0	6	51	338	499	161	0.3106	1.863	2	0.333	0.3333
49	ROOF THERMAL INSULATION & TILING	10	CR49	0	10	51	342	544	202	0.2475	2.475	3	0.300	0.3764
50	STAIRS HANDRAILS	5	CR50	0	5	51	333	557	224	0.2232	1.116	2	0.400	0.5565
51	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	6	CR51	0	6	51	334	530	196	0.2551	1.531	2	0.333	0.4058
52	CERAMIC TILES	7	CR52	0	7	51	336	530	194	0.2577	1.804	2	0.286	0.3463
53	GYPSON BOARDS FALSE CEILING	7	CR53	0	7	51	336	530	194	0.2577	1.804	2	0.286	0.3443
54	YARD PLUMBING PIPES	10	CR54	0	10	51	348	509	161	0.3106	3.106	4	0.400	0.4000
55	PAINT PREPARATION (Primer & Putty Coats)	12	CR55	0	12	51	340	542	194	0.2577	3.093	4	0.333	0.4017
56	WATER TANK & EXPOSED ROOF PIPING	7	CR56	0	7	51	349	551	202	0.2475	1.733	2	0.286	0.3585
57	YARD ELECTRICAL PIPES & HANDBOLES	7	CR57	0	7	51	355	516	161	0.3106	2.174	3	0.429	0.4286
58	SANITARY HOUSE CONNECTION	6	CR58	0	6	51	354	516	162	0.3086	1.852	2	0.333	0.3354
59	ROOF MASTIC & TOUCH-UPS	6	CR59	0	6	51	355	560	205	0.2439	1.463	2	0.333	0.4244
60	WATER TANK SHED	4	CR60	0	4	51	353	564	211	0.2370	0.948	1	0.250	0.3276
61	ALUMINUM FRAMES, WINDOWS & DOORS	9	CR61	0	9	51	357	551	194	0.2577	2.320	3	0.333	0.4017
62	ELECTRICAL BOARDS CONNECTION	4	CR62	0	4	51	352	553	201	0.2488	0.995	1	0.250	0.3121
63	PAINT, FIRST & SECOND COATS	6	CR63	0	6	51	354	551	197	0.2538	1.523	2	0.333	0.4079

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decal Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
Y	18	18	0		CONTRACTOR'S CONTINGENCY	2FEB89	22FEB89	2FEB89	22FEB89	0
Z	30	30	0		HANDOVERS & DEMOBILIZATION	23FEB89	30MAR89	23FEB89	30MAR89	0
320****A06	8	5	35	45	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	1FEB88	6FEB88	23MAR88	29MAR88	43
215****A06	8	8	0	46	CLUSTER BACKFILLING TO GROUND BEAMS BOTTOM LEVEL	7FEB88	15FEB88	13APR88	21APR88	55
320H176A07	4	4	0	43	PLAIN CONCRETE UNDER GROUND BEAMS	7FEB88	10FEB88	30MAR88	3APR88	43
320H177A07	4	4	0	44	PLAIN CONCRETE UNDER GROUND BEAMS	11FEB88	15FEB88	7APR88	11APR88	46
320H178A07	4	4	0	45	PLAIN CONCRETE UNDER GROUND BEAMS	16FEB88	20FEB88	14APR88	18APR88	48
215H027A07	4	4	0	46	PLAIN CONCRETE UNDER GROUND BEAMS	21FEB88	24FEB88	23APR88	26APR88	51
215H036A07	4	4	0	47	PLAIN CONCRETE UNDER GROUND BEAMS	27FEB88	31MAR88	30APR88	3MAY88	53
215H025A07	4	4	0	48	PLAIN CONCRETE UNDER GROUND BEAMS	2MAR88	6MAR88	8MAY88	11MAY88	56
215H024A07	4	4	0	49	PLAIN CONCRETE UNDER GROUND BEAMS	7MAR88	10MAR88	15MAY88	18MAY88	58
215H023A07	4	4	0	50	PLAIN CONCRETE UNDER GROUND BEAMS	12MAR88	15MAR88	23MAY88	26MAY88	61
215H022A07	4	4	0	51	PLAIN CONCRETE UNDER GROUND BEAMS	16MAR88	20MAR88	31MAY88	4JUN88	63
220H009A08	13	3	80	38	GROUND BEAMS	1FEB88	3FEB88	12MAR88	14MAR88	33
220H008A08	13	3	80	39	GROUND BEAMS	1FEB88	3FEB88	15MAR88	17MAR88	36
220H006A08	13	10	25	40	GROUND BEAMS	4FEB88	15FEB88	15MAR88	26MAR88	33
220H005A08	13	13	0	41	GROUND BEAMS	4FEB88	18FEB88	19MAR88	3APR88	36
220H004A08	13	13	0	42	GROUND BEAMS	16FEB88	2MAR88	27MAR88	11APR88	33
320H176A08	13	13	0	43	GROUND BEAMS	20FEB88	6MAR88	4APR88	18APR88	36
320H177A08	13	13	0	44	GROUND BEAMS	3MAR88	17MAR88	12APR88	26APR88	33
320H178A08	13	13	0	45	GROUND BEAMS	7MAR88	21MAR88	19APR88	3MAY88	36
215H027A08	13	13	0	46	GROUND BEAMS	19MAR88	3APR88	27APR88	11MAY88	33
215H026A08	13	13	0	47	GROUND BEAMS	22MAR88	6APR88	4MAY88	18MAY88	36
215H025A08	13	13	0	48	GROUND BEAMS	4APR88	18APR88	12MAY88	26MAY88	33
215H024A08	13	13	0	49	GROUND BEAMS	7APR88	21APR88	19MAY88	4JUN88	36
215H023A08	13	13	0	50	GROUND BEAMS	19APR88	3MAY88	28MAY88	12JUN88	33
215H022A08	13	13	0	51	GROUND BEAMS	23APR88	7MAY88	5JUN88	19JUN88	36
219H012A09	6	1	80	32	2nd BACKFILL & SLAB ON GRADE	1FEB88	1FEB88	18FEB88	18FEB88	15
217H017A09	6	2	70	33	2nd BACKFILL & SLAB ON GRADE	2FEB88	3FEB88	20FEB88	21FEB88	15
217H016A09	6	3	55	34	2nd BACKFILL & SLAB ON GRADE	4FEB88	7FEB88	22FEB88	24FEB88	15
221H003A09	6	6	0	35	2nd BACKFILL & SLAB ON GRADE	8FEB88	14FEB88	27FEB88	3MAR88	15
221H002A09	6	6	0	36	2nd BACKFILL & SLAB ON GRADE	15FEB88	21FEB88	5MAR88	10MAR88	15
221H001A09	6	6	0	37	2nd BACKFILL & SLAB ON GRADE	22FEB88	29FEB88	12MAR88	17MAR88	15
220H009A09	6	6	0	38	2nd BACKFILL & SLAB ON GRADE	1MAR88	7MAR88	19MAR88	24MAR88	15
220H008A09	6	6	0	39	2nd BACKFILL & SLAB ON GRADE	8MAR88	14MAR88	26MAR88	2APR88	15
220H006A09	6	6	0	40	2nd BACKFILL & SLAB ON GRADE	15MAR88	21MAR88	3APR88	9APR88	15
220H005A09	6	6	0	41	2nd BACKFILL & SLAB ON GRADE	22MAR88	29MAR88	10APR88	16APR88	15
220H004A09	6	6	0	42	2nd BACKFILL & SLAB ON GRADE	30MAR88	5APR88	17APR88	23APR88	15
320H176A09	6	6	0	43	2nd BACKFILL & SLAB ON GRADE	6APR88	12APR88	24APR88	30APR88	15
320H177A09	6	6	0	44	2nd BACKFILL & SLAB ON GRADE	13APR88	19APR88	1MAY88	7MAY88	15
320H178A09	6	6	0	45	2nd BACKFILL & SLAB ON GRADE	20APR88	26APR88	8MAY88	14MAY88	15
215H027A09	6	6	0	46	2nd BACKFILL & SLAB ON GRADE	27APR88	3MAY88	15MAY88	21MAY88	15
215H026A09	6	6	0	47	2nd BACKFILL & SLAB ON GRADE	4MAY88	10MAY88	22MAY88	28MAY88	15
215H025A09	6	6	0	48	2nd BACKFILL & SLAB ON GRADE	11MAY88	17MAY88	29MAY88	5JUN88	15
215H024A09	6	6	0	49	2nd BACKFILL & SLAB ON GRADE	18MAY88	24MAY88	6JUN88	12JUN88	15
215H023A09	6	6	0	50	2nd BACKFILL & SLAB ON GRADE	25MAY88	1JUN88	13JUN88	19JUN88	15
215H022A09	6	6	0	51	2nd BACKFILL & SLAB ON GRADE	3JUN88	8JUN88	20JUN88	26JUN88	15
213H035A10	7	7	0	25	GF COLUMNS	1FEB88	8FEB88	8FEB88	15FEB88	6
213H036A10	7	7	0	26	GF COLUMNS	1FEB88	8FEB88	15FEB88	22FEB88	12
213H037A10	7	7	0	27	GF COLUMNS	11FEB88	18FEB88	18FEB88	27FEB88	6
213H032A10	7	7	0	28	GF COLUMNS	11FEB88	18FEB88	27FEB88	5MAR88	12
213H033A10	7	7	0	29	GF COLUMNS	22FEB88	1MAR88	1MAR88	8MAR88	6
213H034A10	7	7	0	30	GF COLUMNS	22FEB88	1MAR88	8MAR88	15MAR88	12
219H011A10	7	7	0	31	GF COLUMNS	5MAR88	12MAR88	12MAR88	19MAR88	6
219H012A10	7	7	0	32	GF COLUMNS	5MAR88	12MAR88	19MAR88	26MAR88	12
217H017A10	7	7	0	33	GF COLUMNS	15MAR88	22MAR88	22MAR88	30MAR88	6
217H016A10	7	7	0	34	GF COLUMNS	15MAR88	22MAR88	30MAR88	6APR88	12
221H003A10	7	7	0	35	GF COLUMNS	26MAR88	3APR88	3APR88	10APR88	6
221H002A10	7	7	0	36	GF COLUMNS	26MAR88	3APR88	10APR88	17APR88	12
221H001A10	7	7	0	37	GF COLUMNS	6APR88	13APR88	13APR88	20APR88	6
220H009A10	7	7	0	38	GF COLUMNS	6APR88	13APR88	20APR88	27APR88	12
220H008A10	7	7	0	39	GF COLUMNS	17APR88	24APR88	24APR88	1MAY88	6
220H006A10	7	7	0	40	GF COLUMNS	17APR88	24APR88	1MAY88	8MAY88	12
220H005A10	7	7	0	41	GF COLUMNS	27APR88	4MAY88	4MAY88	11MAY88	6
220H004A10	7	7	0	42	GF COLUMNS	27APR88	4MAY88	11MAY88	18MAY88	12
320H176A10	7	7	0	43	GF COLUMNS	8MAY88	15MAY88	15MAY88	22MAY88	6
320H177A10	7	7	0	44	GF COLUMNS	8MAY88	15MAY88	22MAY88	29MAY88	12
320H178A10	7	7	0	45	GF COLUMNS	18MAY88	25MAY88	25MAY88	2JUN88	6
215H027A10	7	7	0	46	GF COLUMNS	18MAY88	25MAY88	2JUN88	9JUN88	12
215H026A10	7	7	0	47	GF COLUMNS	29MAY88	6JUN88	6JUN88	13JUN88	6
215H025A10	7	7	0	48	GF COLUMNS	29MAY88	6JUN88	13JUN88	20JUN88	12
215H024A10	7	7	0	49	GF COLUMNS	9JUN88	16JUN88	16JUN88	23JUN88	6
215H023A10	7	7	0	50	GF COLUMNS	9JUN88	16JUN88	23JUN88	30JUN88	12
215H022A10	7	7	0	51	GF COLUMNS	20JUN88	27JUN88	27JUN88	4JUL88	6
321H175A11	9	5	50	04	GF LOFT WALLS & SLABS	1FEB88	6FEB88	6MAR88	10MAR88	28
211H044A11	9	5	50	05	GF LOFT WALLS & SLABS	1FEB88	6FEB88	10MAR88	15MAR88	32
323H185A11	9	6	30	06	GF LOFT WALLS & SLABS	1FEB88	7FEB88	14MAR88	20MAR88	35
323H186A11	9	9	0	07	GF LOFT WALLS & SLABS	7FEB88	16FEB88	15MAR88	24MAR88	31
214H037A11	9	9	0	08	GF LOFT WALLS & SLABS	7FEB88	16FEB88	20MAR88	30MAR88	35
214H038A11	9	9	0	09	GF LOFT WALLS & SLABS	8FEB88	17FEB88	24MAR88	4APR88	38
214H039A11	9	9	0	10	GF LOFT WALLS & SLABS	17FEB88	28FEB88	30MAR88	9APR88	34
214H028A11	9	9	0	11	GF LOFT WALLS & SLABS	17FEB88	28FEB88	4APR88	13APR88	38
214H031A11	9	9	0	12	GF LOFT WALLS & SLABS	18FEB88	29FEB88	9APR88	18APR88	41
216H020A11	9	9	0	13	GF LOFT WALLS & SLABS	29FEB88	9MAR88	13APR88	21APR88	37
216H019A11	9	9	0	14	GF LOFT WALLS & SLABS	29FEB88	9MAR88	18APR88	27APR88	41
216H018A11	9	9	0	15	GF LOFT WALLS & SLABS	1MAR88	10MAR88	23APR88	2MAY88	44
219H015A11	9	9	0	16	GF LOFT WALLS & SLABS	10MAR88	20MAR88	27APR88	7MAY88	40
218H014A11	9	9	0	17	GF LOFT WALLS & SLABS	10MAR88	20MAR88	2MAY88	11MAY88	44
218H013A11	9	9	0	18	GF LOFT WALLS & SLABS	12MAR88	21MAR88	7MAY88	16MAY88	47
322H188A11	9	9	0	19	GF LOFT WALLS & SLABS	21MAR88	31MAR88	11MAY88	21MAY88	43
322H189A11	9	9	0	20	GF LOFT WALLS & SLABS	21MAR88	31MAR88	16MAY88	25MAY88	47
322H190A11	9	9	0	21	GF LOFT WALLS & SLABS	22MAR88	2APR88	21MAY88	31MAY88	50
216H021A11	9	9	0	22	GF LOFT WALLS & SLABS	2APR88	11APR88	25MAY88	5JUN88	46
219H010A11	9	9	0	23	GF LOFT WALLS & SLABS	2APR88	11APR88	31MAY88	9JUN88	50
220H007A11	9	9	0	24	GF LOFT WALLS & SLABS	3APR88	12APR88	5JUN88	14JUN88	53
213H035A11	9	9	0	25	GF LOFT WALLS & SLABS	12APR88	21APR88	9JUN88	19JUN88	49

Figure 9.19 - Case 2, Revised and Decelerated Schedule.

SAUD & EBRAHIM ALABDULRAZZAK EST.

PRIMAVERA PROJECT PLANNER

Correcting Out-of-Logic Progress NSQ

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS. CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 2

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
213H036A11	9	9	0	26	GF LOFT WALLS & SLABS	12APR88	21APR88	14JUN88	23JUN88	53
213H037A11	9	9	0	27	GF LOFT WALLS & SLABS	13APR88	23APR88	19JUN88	28JUN88	56
213H032A11	9	9	0	28	GF LOFT WALLS & SLABS	23APR88	2MAY88	23JUN88	3JUL88	52
213H033A11	9	9	0	29	GF LOFT WALLS & SLABS	23APR88	2MAY88	28JUN88	7JUL88	56
213H034A11	9	9	0	30	GF LOFT WALLS & SLABS	24APR88	3MAY88	3JUL88	12JUL88	59
219H011A11	9	9	0	31	GF LOFT WALLS & SLABS	3MAY88	12MAY88	7JUL88	17JUL88	55
219H012A11	9	9	0	32	GF LOFT WALLS & SLABS	3MAY88	12MAY88	12JUL88	21JUL88	59
217H017A11	9	9	0	33	GF LOFT WALLS & SLABS	4MAY88	14MAY88	17JUL88	26JUL88	62
217H016A11	9	9	0	34	GF LOFT WALLS & SLABS	14MAY88	23MAY88	21JUL88	31JUL88	58
221H003A11	9	9	0	35	GF LOFT WALLS & SLABS	14MAY88	24MAY88	26JUL88	6AUG88	62
221H002A11	9	9	0	36	GF LOFT WALLS & SLABS	15MAY88	24MAY88	31JUL88	10AUG88	65
221H001A11	9	9	0	37	GF LOFT WALLS & SLABS	24MAY88	4JUN88	6AUG88	15AUG88	61
220H009A11	9	9	0	38	GF LOFT WALLS & SLABS	24MAY88	4JUN88	10AUG88	20AUG88	65
220H008A11	9	9	0	39	GF LOFT WALLS & SLABS	25MAY88	5JUN88	14AUG88	23AUG88	67
220H006A11	9	9	0	40	GF LOFT WALLS & SLABS	5JUN88	14JUN88	18AUG88	29AUG88	63
220H005A11	9	9	0	41	GF LOFT WALLS & SLABS	5JUN88	14JUN88	22AUG88	1SEP88	66
220H004A11	9	9	0	42	GF LOFT WALLS & SLABS	6JUN88	15JUN88	27AUG88	5SEP88	68
320H176A11	9	9	0	43	GF LOFT WALLS & SLABS	15JUN88	25JUN88	31AUG88	10SEP88	64
320H177A11	9	9	0	44	GF LOFT WALLS & SLABS	15JUN88	25JUN88	4SEP88	13SEP88	67
320H178A11	9	9	0	45	GF LOFT WALLS & SLABS	16JUN88	26JUN88	7SEP88	17SEP88	69
215H027A11	9	9	0	46	GF LOFT WALLS & SLABS	26JUN88	5JUL88	12SEP88	21SEP88	65
215H026A11	9	9	0	47	GF LOFT WALLS & SLABS	26JUN88	5JUL88	15SEP88	25SEP88	68
215H025A11	9	9	0	48	GF LOFT WALLS & SLABS	27JUN88	6JUL88	19SEP88	28SEP88	70
215H024A11	9	9	0	49	GF LOFT WALLS & SLABS	6JUL88	16JUL88	24SEP88	3OCT88	66
215H023A11	9	9	0	50	GF LOFT WALLS & SLABS	6JUL88	16JUL88	27SEP88	6OCT88	69
215H022A11	9	9	0	51	GF LOFT WALLS & SLABS	7JUL88	17JUL88	1OCT88	10OCT88	71
218H015A12	12	2	80	16	GF ROOF	1FEB88	2FEB88	3FEB88	4FEB88	2
218H014A12	12	4	70	17	GF ROOF	1FEB88	4FEB88	4FEB88	9FEB88	3
218H013A12	12	8	30	18	GF ROOF	1FEB88	9FEB88	3FEB88	11FEB88	2
322H188A12	12	8	30	19	GF ROOF	3FEB88	11FEB88	10FEB88	18FEB88	6
322H189A12	12	10	20	20	GF ROOF	6FEB88	16FEB88	11FEB88	22FEB88	5
322H190A12	12	11	10	21	GF ROOF	10FEB88	22FEB88	14FEB88	27FEB88	3
216H021A12	12	12	0	22	GF ROOF	17FEB88	2MAR88	20FEB88	5MAR88	2
219H010A12	12	12	0	23	GF ROOF	20FEB88	5MAR88	23FEB88	8MAR88	3
220H007A12	12	12	0	24	GF ROOF	24FEB88	9MAR88	28FEB88	12MAR88	2
213H035A12	12	12	0	25	GF ROOF	3MAR88	16MAR88	6MAR88	19MAR88	2
213H036A12	12	12	0	26	GF ROOF	6MAR88	19MAR88	9MAR88	22MAR88	3
213H037A12	12	12	0	27	GF ROOF	10MAR88	23MAR88	13MAR88	26MAR88	2
213H032A12	12	12	0	28	GF ROOF	17MAR88	31MAR88	20MAR88	3APR88	2
213H033A12	12	12	0	29	GF ROOF	20MAR88	3APR88	23MAR88	6APR88	3
213H034A12	12	12	0	30	GF ROOF	24MAR88	7APR88	27MAR88	10APR88	2
219H011A12	12	12	0	31	GF ROOF	2APR88	14APR88	4APR88	17APR88	2
219H012A12	12	12	0	32	GF ROOF	4APR88	17APR88	7APR88	20APR88	3
217H017A12	12	12	0	33	GF ROOF	9APR88	21APR88	11APR88	24APR88	2
217H016A12	12	12	0	34	GF ROOF	16APR88	28APR88	18APR88	1MAY88	2
221H003A12	12	12	0	35	GF ROOF	18APR88	1MAY88	21APR88	4MAY88	3
221H002A12	12	12	0	36	GF ROOF	23APR88	5MAY88	25APR88	8MAY88	2
221H001A12	12	12	0	37	GF ROOF	30APR88	12MAY88	2MAY88	15MAY88	2
220H009A12	12	12	0	38	GF ROOF	2MAY88	15MAY88	5MAY88	18MAY88	3
220H008A12	12	12	0	39	GF ROOF	7MAY88	19MAY88	9MAY88	22MAY88	2
220H006A12	12	12	0	40	GF ROOF	14MAY88	26MAY88	16MAY88	29MAY88	2
220H005A12	12	12	0	41	GF ROOF	16MAY88	29MAY88	19MAY88	3JUN88	3
220H004A12	12	12	0	42	GF ROOF	21MAY88	4JUN88	23MAY88	6JUN88	2
320H176A12	12	12	0	43	GF ROOF	28MAY88	11JUN88	31MAY88	13JUN88	2
320H177A12	12	12	0	44	GF ROOF	31MAY88	13JUN88	4JUN88	16JUN88	3
320H178A12	12	12	0	45	GF ROOF	5JUN88	18JUN88	7JUN88	20JUN88	2
215H027A12	12	12	0	46	GF ROOF	12JUN88	25JUN88	14JUN88	27JUN88	2
215H026A12	12	12	0	47	GF ROOF	14JUN88	27JUN88	18JUN88	30JUN88	3
215H025A12	12	12	0	48	GF ROOF	19JUN88	2JUL88	21JUN88	4JUL88	2
215H024A12	12	12	0	49	GF ROOF	26JUN88	9JUL88	28JUN88	11JUL88	2
215H023A12	12	12	0	50	GF ROOF	28JUN88	11JUL88	2JUL88	14JUL88	3
215H022A12	12	12	0	51	GF ROOF	3JUL88	16JUL88	5JUL88	18JUL88	2
323H187A13	7	1	80	08	FF COLUMNS	1FEB88	1FEB88	15FEB88	15FEB88	12
214H030A13	7	6	20	09	FF COLUMNS	1FEB88	7FEB88	13FEB88	18FEB88	10
214H029A13	7	6	20	10	FF COLUMNS	1FEB88	7FEB88	17FEB88	23FEB88	14
214H028A13	7	6	20	11	FF COLUMNS	4FEB88	10FEB88	21FEB88	28FEB88	14
214H031A13	7	7	0	12	FF COLUMNS	10FEB88	17FEB88	24FEB88	3MAR88	12
216H020A13	7	7	0	13	FF COLUMNS	10FEB88	17FEB88	29FEB88	7MAR88	15
216H019A13	7	7	0	14	FF COLUMNS	14FEB88	21FEB88	5MAR88	12MAR88	16
216H018A13	7	7	0	15	FF COLUMNS	21FEB88	29FEB88	8MAR88	15MAR88	13
218H015A13	7	7	0	16	FF COLUMNS	21FEB88	29FEB88	13MAR88	20MAR88	17
218H014A13	7	7	0	17	FF COLUMNS	24FEB88	3MAR88	16MAR88	23MAR88	17
218H013A13	7	7	0	18	FF COLUMNS	3MAR88	10MAR88	21MAR88	29MAR88	15
322H188A13	7	7	0	19	FF COLUMNS	3MAR88	10MAR88	24MAR88	2APR88	18
322H189A13	7	7	0	20	FF COLUMNS	7MAR88	14MAR88	30MAR88	6APR88	19
322H190A13	7	7	0	21	FF COLUMNS	14MAR88	21MAR88	3APR88	10APR88	16
216H021A13	7	7	0	22	FF COLUMNS	14MAR88	21MAR88	7APR88	14APR88	20
219H010A13	7	7	0	23	FF COLUMNS	17MAR88	24MAR88	11APR88	18APR88	20
220H007A13	7	7	0	24	FF COLUMNS	24MAR88	2APR88	14APR88	21APR88	17
213H035A13	7	7	0	25	FF COLUMNS	24MAR88	2APR88	18APR88	25APR88	20
213H036A13	7	7	0	26	FF COLUMNS	29MAR88	5APR88	21APR88	28APR88	20
213H037A13	7	7	0	27	FF COLUMNS	5APR88	12APR88	25APR88	2MAY88	17
213H032A13	7	7	0	28	FF COLUMNS	5APR88	12APR88	28APR88	5MAY88	20
213H033A13	7	7	0	29	FF COLUMNS	9APR88	16APR88	2MAY88	9MAY88	20
213H034A13	7	7	0	30	FF COLUMNS	16APR88	23APR88	5MAY88	12MAY88	17
219H011A13	7	7	0	31	FF COLUMNS	16APR88	23APR88	9MAY88	16MAY88	20
219H012A13	7	7	0	32	FF COLUMNS	19APR88	26APR88	12MAY88	19MAY88	20
217H017A13	7	7	0	33	FF COLUMNS	26APR88	3MAY88	16MAY88	23MAY88	17
217H016A13	7	7	0	34	FF COLUMNS	30APR88	7MAY88	19MAY88	26MAY88	17
221H003A13	7	7	0	35	FF COLUMNS	2MAY88	9MAY88	23MAY88	31MAY88	18
221H002A13	7	7	0	36	FF COLUMNS	7MAY88	14MAY88	26MAY88	4JUN88	17
221H001A13	7	7	0	37	FF COLUMNS	14MAY88	21MAY88	31MAY88	7JUN88	14
220H009A13	7	7	0	38	FF COLUMNS	16MAY88	23MAY88	4JUN88	11JUN88	15
220H008A13	7	7	0	39	FF COLUMNS	21MAY88	28MAY88	7JUN88	14JUN88	14
220H006A13	7	7	0	40	FF COLUMNS	28MAY88	5JUN88	11JUN88	18JUN88	11
220H005A13	7	7	0	41	FF COLUMNS	31MAY88	7JUN88	14JUN88	21JUN88	12

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 3

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
220H004A13	7	7	0	42	FF COLUMNS	5JUN88	12JUN88	18JUN88	25JUN88	11
320H176A13	7	7	0	43	FF COLUMNS	12JUN88	19JUN88	21JUN88	28JUN88	8
320H177A13	7	7	0	44	FF COLUMNS	14JUN88	21JUN88	25JUN88	2JUL88	9
320H178A13	7	7	0	45	FF COLUMNS	19JUN88	26JUN88	28JUN88	5JUL88	8
215H027A13	7	7	0	46	FF COLUMNS	26JUN88	3JUL88	9JUL88	9JUL88	5
215H026A13	7	7	0	47	FF COLUMNS	28JUN88	5JUL88	5JUL88	12JUL88	6
215H025A13	7	7	0	48	FF COLUMNS	3JUL88	10JUL88	9JUL88	16JUL88	5
215H024A13	7	7	0	49	FF COLUMNS	10JUL88	17JUL88	12JUL88	19JUL88	2
215H023A13	7	7	0	50	FF COLUMNS	12JUL88	19JUL88	16JUL88	23JUL88	3
215H022A13	7	7	0	51	FF COLUMNS	17JUL88	24JUL88	19JUL88	26JUL88	2
211H043A14	9	9	0	01	FF LOFT WALLS & SLABS	1FEB88	10FEB88	15FEB88	24FEB88	12
211H042A14	9	9	0	02	FF LOFT WALLS & SLABS	1FEB88	10FEB88	20FEB88	1MAR88	16
321H174A14	9	9	0	03	FF LOFT WALLS & SLABS	1FEB88	10FEB88	24FEB88	6MAR88	20
211H175A14	9	9	0	04	FF LOFT WALLS & SLABS	11FEB88	21FEB88	1MAR88	10MAR88	15
211H044A14	9	9	0	05	FF LOFT WALLS & SLABS	11FEB88	21FEB88	6MAR88	15MAR88	19
323H185A14	9	9	0	06	FF LOFT WALLS & SLABS	11FEB88	21FEB88	10MAR88	20MAR88	23
323H186A14	9	9	0	07	FF LOFT WALLS & SLABS	22FEB88	3MAR88	15MAR88	24MAR88	18
323H187A14	9	9	0	08	FF LOFT WALLS & SLABS	22FEB88	3MAR88	20MAR88	30MAR88	22
214H030A14	9	9	0	09	FF LOFT WALLS & SLABS	22FEB88	3MAR88	24MAR88	4APR88	26
214H029A14	9	9	0	10	FF LOFT WALLS & SLABS	5MAR88	14MAR88	30MAR88	9APR88	21
214H028A14	9	9	0	11	FF LOFT WALLS & SLABS	5MAR88	14MAR88	4APR88	13APR88	25
214H031A14	9	9	0	12	FF LOFT WALLS & SLABS	5MAR88	14MAR88	9APR88	18APR88	29
216H020A14	9	9	0	13	FF LOFT WALLS & SLABS	15MAR88	24MAR88	13APR88	23APR88	24
216H019A14	9	9	0	14	FF LOFT WALLS & SLABS	15MAR88	24MAR88	18APR88	27APR88	28
216H018A14	9	9	0	15	FF LOFT WALLS & SLABS	15MAR88	24MAR88	23APR88	2MAY88	32
218H015A14	9	9	0	16	FF LOFT WALLS & SLABS	26MAR88	5APR88	27APR88	7MAY88	27
218H014A14	9	9	0	17	FF LOFT WALLS & SLABS	26MAR88	5APR88	2MAY88	11MAY88	31
218H013A14	9	9	0	18	FF LOFT WALLS & SLABS	26MAR88	5APR88	7MAY88	16MAY88	35
322H188A14	9	9	0	19	FF LOFT WALLS & SLABS	6APR88	16APR88	11MAY88	21MAY88	30
322H189A14	9	9	0	20	FF LOFT WALLS & SLABS	6APR88	16APR88	16MAY88	25MAY88	34
322H190A14	9	9	0	21	FF LOFT WALLS & SLABS	6APR88	16APR88	21MAY88	31MAY88	38
216H021A14	9	9	0	22	FF LOFT WALLS & SLABS	17APR88	26APR88	25MAY88	5JUN88	33
219H010A14	9	9	0	23	FF LOFT WALLS & SLABS	17APR88	26APR88	31MAY88	9JUN88	37
220H007A14	9	9	0	24	FF LOFT WALLS & SLABS	17APR88	26APR88	5JUN88	14JUN88	41
213H035A14	9	9	0	25	FF LOFT WALLS & SLABS	27APR88	7MAY88	9JUN88	19JUN88	36
213H036A14	9	9	0	26	FF LOFT WALLS & SLABS	27APR88	7MAY88	14JUN88	23JUN88	40
213H037A14	9	9	0	27	FF LOFT WALLS & SLABS	27APR88	7MAY88	19JUN88	28JUN88	44
213H032A14	9	9	0	28	FF LOFT WALLS & SLABS	8MAY88	17MAY88	23JUN88	3JUL88	39
213H033A14	9	9	0	29	FF LOFT WALLS & SLABS	8MAY88	17MAY88	28JUN88	7JUL88	43
213H034A14	9	9	0	30	FF LOFT WALLS & SLABS	8MAY88	17MAY88	3JUL88	12JUL88	47
219H011A14	9	9	0	31	FF LOFT WALLS & SLABS	18MAY88	28MAY88	7JUL88	17JUL88	42
219H012A14	9	9	0	32	FF LOFT WALLS & SLABS	18MAY88	28MAY88	12JUL88	21JUL88	46
217H017A14	9	9	0	33	FF LOFT WALLS & SLABS	18MAY88	28MAY88	17JUL88	26JUL88	50
217H016A14	9	9	0	34	FF LOFT WALLS & SLABS	29MAY88	8JUN88	21JUL88	31JUL88	45
221H003A14	9	9	0	35	FF LOFT WALLS & SLABS	29MAY88	8JUN88	26JUL88	6AUG88	49
221H002A14	9	9	0	36	FF LOFT WALLS & SLABS	29MAY88	8JUN88	31JUL88	10AUG88	53
221H001A14	9	9	0	37	FF LOFT WALLS & SLABS	9JUN88	19JUN88	6AUG88	15AUG88	48
220H009A14	9	9	0	38	FF LOFT WALLS & SLABS	9JUN88	19JUN88	10AUG88	20AUG88	52
220H008A14	9	9	0	39	FF LOFT WALLS & SLABS	9JUN88	19JUN88	14AUG88	23AUG88	55
220H006A14	9	9	0	40	FF LOFT WALLS & SLABS	20JUN88	29JUN88	18AUG88	29AUG88	50
220H005A14	9	9	0	41	FF LOFT WALLS & SLABS	20JUN88	29JUN88	22AUG88	1SEP88	53
220H004A14	9	9	0	42	FF LOFT WALLS & SLABS	20JUN88	29JUN88	27AUG88	5SEP88	56
320H176A14	9	9	0	43	FF LOFT WALLS & SLABS	30JUN88	10JUL88	31AUG88	10SEP88	51
320H177A14	9	9	0	44	FF LOFT WALLS & SLABS	30JUN88	10JUL88	4SEP88	13SEP88	54
320H178A14	9	9	0	45	FF LOFT WALLS & SLABS	30JUN88	10JUL88	7SEP88	17SEP88	57
215H027A14	9	9	0	46	FF LOFT WALLS & SLABS	11JUL88	20JUL88	12SEP88	21SEP88	52
215H026A14	9	9	0	47	FF LOFT WALLS & SLABS	11JUL88	20JUL88	15SEP88	25SEP88	55
215H025A14	9	9	0	48	FF LOFT WALLS & SLABS	11JUL88	20JUL88	19SEP88	28SEP88	58
215H024A14	9	9	0	49	FF LOFT WALLS & SLABS	21JUL88	31JUL88	24SEP88	3OCT88	53
215H023A14	9	9	0	50	FF LOFT WALLS & SLABS	21JUL88	31JUL88	27SEP88	6OCT88	56
215H022A14	9	9	0	51	FF LOFT WALLS & SLABS	21JUL88	31JUL88	1OCT88	10OCT88	59
321H174A15	12	2	80	03	FF ROOF	1FEB88	2FEB88	4FEB88	6FEB88	3
321H175A15	12	5	60	04	FF ROOF	1FEB88	6FEB88	6FEB88	10FEB88	4
211H044A15	12	8	30	05	FF ROOF	1FEB88	9FEB88	7FEB88	15FEB88	5
323H185A15	12	12	0	06	FF ROOF	1FEB88	14FEB88	7FEB88	20FEB88	5
323H186A15	12	12	0	07	FF ROOF	3FEB88	16FEB88	11FEB88	24FEB88	7
323H187A15	12	12	0	08	FF ROOF	7FEB88	20FEB88	16FEB88	1MAR88	8
214H030A15	12	12	0	09	FF ROOF	10FEB88	23FEB88	20FEB88	5MAR88	8
214H029A15	12	12	0	10	FF ROOF	15FEB88	29FEB88	24FEB88	9MAR88	8
214H028A15	12	12	0	11	FF ROOF	17FEB88	2MAR88	29FEB88	13MAR88	9
214H031A15	12	12	0	12	FF ROOF	21FEB88	6MAR88	5MAR88	17MAR88	10
216H020A15	12	12	0	13	FF ROOF	24FEB88	9MAR88	8MAR88	21MAR88	10
216H019A15	12	12	0	14	FF ROOF	1MAR88	14MAR88	13MAR88	26MAR88	10
216H018A15	12	12	0	15	FF ROOF	3MAR88	16MAR88	16MAR88	30MAR88	11
218H015A15	12	12	0	16	FF ROOF	7MAR88	20MAR88	21MAR88	4APR88	12
218H014A15	12	12	0	17	FF ROOF	10MAR88	23MAR88	24MAR88	7APR88	12
218H013A15	12	12	0	18	FF ROOF	15MAR88	29MAR88	30MAR88	12APR88	12
322H188A15	12	12	0	19	FF ROOF	17MAR88	31MAR88	3APR88	16APR88	13
322H189A15	12	12	0	20	FF ROOF	21MAR88	4APR88	7APR88	20APR88	14
322H190A15	12	12	0	21	FF ROOF	24MAR88	7APR88	11APR88	24APR88	14
216H021A15	12	12	0	22	FF ROOF	30MAR88	12APR88	16APR88	28APR88	14
219H010A15	12	12	0	23	FF ROOF	2APR88	14APR88	19APR88	2MAY88	15
220H007A15	12	12	0	24	FF ROOF	5APR88	18APR88	23APR88	5MAY88	15
213H035A15	12	12	0	25	FF ROOF	9APR88	21APR88	26APR88	9MAY88	15
213H036A15	12	12	0	26	FF ROOF	13APR88	26APR88	30APR88	12MAY88	14
213H037A15	12	12	0	27	FF ROOF	16APR88	29APR88	3MAY88	16MAY88	15
213H032A15	12	12	0	28	FF ROOF	19APR88	2MAY88	7MAY88	19MAY88	15
213H033A15	12	12	0	29	FF ROOF	23APR88	5MAY88	10MAY88	23MAY88	15
213H034A15	12	12	0	30	FF ROOF	27APR88	10MAY88	14MAY88	26MAY88	14
219H011A15	12	12	0	31	FF ROOF	30APR88	12MAY88	17MAY88	31MAY88	15
219H012A15	12	12	0	32	FF ROOF	3MAY88	16MAY88	21MAY88	4JUN88	15
217H017A15	12	12	0	33	FF ROOF	7MAY88	19MAY88	24MAY88	7JUN88	15
217H016A15	12	12	0	34	FF ROOF	11MAY88	24MAY88	28MAY88	11JUN88	14
221H003A15	12	12	0	35	FF ROOF	14MAY88	26MAY88	1JUN88	14JUN88	15
221H002A15	12	12	0	36	FF ROOF	17MAY88	31MAY88	5JUN88	18JUN88	15
221H001A15	12	12	0	37	FF ROOF	22MAY88	5JUN88	8JUN88	21JUN88	14

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 11SEP95 RUN NO. 205
18:31

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 30MAR99*

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB98 PAGE NO. 4

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
220H009A15	12	12	0	38	FF ROOF	25MAY88	8JUN88	12JUN88	25JUN88	14
220H008A15	12	12	0	39	FF ROOF	29MAY88	12JUN88	15JUN88	28JUN88	14
220H006A15	12	12	0	40	FF ROOF	6JUN88	19JUN88	19JUN88	2JUL88	11
220H005A15	12	12	0	41	FF ROOF	8JUN88	21JUN88	22JUN88	5JUL88	12
220H004A15	12	12	0	42	FF ROOF	13JUN88	26JUN88	26JUN88	9JUL88	11
320H176A15	12	12	0	43	FF ROOF	20JUN88	3JUL88	29JUN88	12JUL88	8
320H177A15	12	12	0	44	FF ROOF	22JUN88	5JUL88	3JUL88	16JUL88	9
320H178A15	12	12	0	45	FF ROOF	27JUN88	10JUL88	6JUL88	19JUL88	8
215H027A15	12	12	0	46	FF ROOF	4JUL88	17JUL88	10JUL88	23JUL88	5
215H026A15	12	12	0	47	FF ROOF	6JUL88	19JUL88	13JUL88	26JUL88	6
215H025A15	12	12	0	48	FF ROOF	11JUL88	24JUL88	17JUL88	30JUL88	5
215H024A15	12	12	0	49	FF ROOF	18JUL88	31JUL88	20JUL88	2AUG88	2
215H023A15	12	12	0	50	FF ROOF	20JUL88	2AUG88	24JUL88	7AUG88	3
215H022A15	12	12	0	51	FF ROOF	25JUL88	8AUG88	27JUL88	10AUG88	2
211H043A16	9	9	0	01	PENTHOUSE COLUMNS & ROOF	1FEB88	10FEB88	3FEB88	13FEB88	2
211H042A16	9	9	0	02	PENTHOUSE COLUMNS & ROOF	1FEB88	10FEB88	8FEB88	17FEB88	6
321H174A16	9	9	0	03	PENTHOUSE COLUMNS & ROOF	3FEB88	13FEB88	11FEB88	21FEB88	7
321H175A16	9	9	0	04	PENTHOUSE COLUMNS & ROOF	11FEB88	21FEB88	16FEB88	27FEB88	4
211H044A16	9	9	0	05	PENTHOUSE COLUMNS & ROOF	11FEB88	21FEB88	20FEB88	1MAR88	7
323H185A16	9	9	0	06	PENTHOUSE COLUMNS & ROOF	15FEB88	24FEB88	24FEB88	6MAR88	8
323H186A16	9	9	0	07	PENTHOUSE COLUMNS & ROOF	22FEB88	3MAR88	29FEB88	9MAR88	5
323H187A16	9	9	0	08	PENTHOUSE COLUMNS & ROOF	27FEB88	7MAR88	5MAR88	14MAR88	6
214H030A16	9	9	0	09	PENTHOUSE COLUMNS & ROOF	27FEB88	7MAR88	8MAR88	17MAR88	9
214H029A16	9	9	0	10	PENTHOUSE COLUMNS & ROOF	5MAR88	14MAR88	13MAR88	22MAR88	7
214H028A16	9	9	0	11	PENTHOUSE COLUMNS & ROOF	8MAR88	17MAR88	16MAR88	26MAR88	7
214H031A16	9	9	0	12	PENTHOUSE COLUMNS & ROOF	8MAR88	17MAR88	21MAR88	31MAR88	11
216H020A16	9	9	0	13	PENTHOUSE COLUMNS & ROOF	15MAR88	24MAR88	24MAR88	4APR88	8
216H019A16	9	9	0	14	PENTHOUSE COLUMNS & ROOF	19MAR88	29MAR88	30MAR88	9APR88	9
216H018A16	9	9	0	15	PENTHOUSE COLUMNS & ROOF	22MAR88	2APR88	3APR88	12APR88	9
218H015A16	9	9	0	16	PENTHOUSE COLUMNS & ROOF	26MAR88	5APR88	7APR88	17APR88	10
218H014A16	9	9	0	17	PENTHOUSE COLUMNS & ROOF	30MAR88	9APR88	11APR88	20APR88	10
218H013A16	9	9	0	18	PENTHOUSE COLUMNS & ROOF	3APR88	12APR88	16APR88	25APR88	11
322H188A16	9	9	0	19	PENTHOUSE COLUMNS & ROOF	6APR88	16APR88	19APR88	28APR88	11
322H189A16	9	9	0	20	PENTHOUSE COLUMNS & ROOF	10APR88	19APR88	23APR88	2MAY88	11
322H190A16	9	9	0	21	PENTHOUSE COLUMNS & ROOF	13APR88	23APR88	26APR88	5MAY88	11
216H021A16	9	9	0	22	PENTHOUSE COLUMNS & ROOF	17APR88	26APR88	30APR88	9MAY88	11
219H010A16	9	9	0	23	PENTHOUSE COLUMNS & ROOF	20APR88	30APR88	3MAY88	12MAY88	11
220H007A16	9	9	0	24	PENTHOUSE COLUMNS & ROOF	24APR88	3MAY88	7MAY88	16MAY88	11
213H035A16	9	9	0	25	PENTHOUSE COLUMNS & ROOF	27APR88	7MAY88	10MAY88	19MAY88	11
213H036A16	9	9	0	26	PENTHOUSE COLUMNS & ROOF	1MAY88	10MAY88	14MAY88	23MAY88	11
213H037A16	9	9	0	27	PENTHOUSE COLUMNS & ROOF	4MAY88	14MAY88	17MAY88	26MAY88	11
213H032A16	9	9	0	28	PENTHOUSE COLUMNS & ROOF	8MAY88	17MAY88	21MAY88	31MAY88	11
213H033A16	9	9	0	29	PENTHOUSE COLUMNS & ROOF	11MAY88	21MAY88	24MAY88	4JUN88	11
213H034A16	9	9	0	30	PENTHOUSE COLUMNS & ROOF	15MAY88	24MAY88	28MAY88	7JUN88	12
219H011A16	9	9	0	31	PENTHOUSE COLUMNS & ROOF	18MAY88	28MAY88	1JUN88	11JUN88	11
219H012A16	9	9	0	32	PENTHOUSE COLUMNS & ROOF	22MAY88	1JUN88	5JUN88	14JUN88	11
217H017A16	9	9	0	33	PENTHOUSE COLUMNS & ROOF	25MAY88	5JUN88	8JUN88	18JUN88	11
217H016A16	9	9	0	34	PENTHOUSE COLUMNS & ROOF	29MAY88	9JUN88	12JUN88	21JUN88	11
221H003A16	9	9	0	35	PENTHOUSE COLUMNS & ROOF	2JUN88	12JUN88	15JUN88	25JUN88	11
221H002A16	9	9	0	36	PENTHOUSE COLUMNS & ROOF	6JUN88	15JUN88	19JUN88	28JUN88	11
221H001A16	9	9	0	37	PENTHOUSE COLUMNS & ROOF	9JUN88	19JUN88	22JUN88	2JUL88	11
220H009A16	9	9	0	38	PENTHOUSE COLUMNS & ROOF	13JUN88	22JUN88	26JUN88	5JUL88	11
220H008A16	9	9	0	39	PENTHOUSE COLUMNS & ROOF	16JUN88	26JUN88	29JUN88	9JUL88	11
220H006A16	9	9	0	40	PENTHOUSE COLUMNS & ROOF	20JUN88	29JUN88	1JUL88	12JUL88	11
220H005A16	9	9	0	41	PENTHOUSE COLUMNS & ROOF	23JUN88	3JUL88	6JUL88	16JUL88	11
220H004A16	9	9	0	42	PENTHOUSE COLUMNS & ROOF	27JUN88	6JUL88	10JUL88	19JUL88	11
320H176A16	9	9	0	43	PENTHOUSE COLUMNS & ROOF	4JUL88	13JUL88	13JUL88	23JUL88	8
320H177A16	9	9	0	44	PENTHOUSE COLUMNS & ROOF	6JUL88	16JUL88	17JUL88	26JUL88	9
320H178A16	9	9	0	45	PENTHOUSE COLUMNS & ROOF	11JUL88	20JUL88	20JUL88	30JUL88	8
215H027A16	9	9	0	46	PENTHOUSE COLUMNS & ROOF	18JUL88	27JUL88	24JUL88	2AUG88	5
215H026A16	9	9	0	47	PENTHOUSE COLUMNS & ROOF	20JUL88	30JUL88	27JUL88	7AUG88	6
215H025A16	9	9	0	48	PENTHOUSE COLUMNS & ROOF	25JUL88	3AUG88	31JUL88	10AUG88	5
215H024A16	9	9	0	49	PENTHOUSE COLUMNS & ROOF	1AUG88	11AUG88	3AUG88	14AUG88	2
215H023A16	9	9	0	50	PENTHOUSE COLUMNS & ROOF	3AUG88	14AUG88	8AUG88	17AUG88	3
215H022A16	9	9	0	51	PENTHOUSE COLUMNS & ROOF	9AUG88	18AUG88	11AUG88	21AUG88	2
211H043A17	7	7	0	01	R.C. COLUMNS OF PARAPETS	1FEB88	8FEB88	1FEB88	8FEB88	0
211H042A17	7	7	0	02	R.C. COLUMNS OF PARAPETS	1FEB88	8FEB88	6FEB88	13FEB88	4
321H174A17	7	7	0	03	R.C. COLUMNS OF PARAPETS	9FEB88	16FEB88	9FEB88	16FEB88	0
321H175A17	7	7	0	04	R.C. COLUMNS OF PARAPETS	9FEB88	16FEB88	14FEB88	21FEB88	4
211H044A17	7	7	0	05	R.C. COLUMNS OF PARAPETS	17FEB88	24FEB88	17FEB88	24FEB88	0
323H185A17	7	7	0	06	R.C. COLUMNS OF PARAPETS	17FEB88	24FEB88	22FEB88	1MAR88	4
323H186A17	7	7	0	07	R.C. COLUMNS OF PARAPETS	27FEB88	5MAR88	27FEB88	5MAR88	0
323H187A17	7	7	0	08	R.C. COLUMNS OF PARAPETS	27FEB88	5MAR88	2MAR88	9MAR88	4
214H030A17	7	7	0	09	R.C. COLUMNS OF PARAPETS	6MAR88	13MAR88	6MAR88	13MAR88	0
214H029A17	7	7	0	10	R.C. COLUMNS OF PARAPETS	6MAR88	13MAR88	10MAR88	17MAR88	4
214H028A17	7	7	0	11	R.C. COLUMNS OF PARAPETS	14MAR88	21MAR88	14MAR88	21MAR88	0
216H020A17	7	7	0	12	R.C. COLUMNS OF PARAPETS	14MAR88	21MAR88	19MAR88	26MAR88	4
216H019A17	7	7	0	13	R.C. COLUMNS OF PARAPETS	22MAR88	30MAR88	22MAR88	30MAR88	0
216H018A17	7	7	0	14	R.C. COLUMNS OF PARAPETS	22MAR88	30MAR88	27MAR88	4APR88	4
218H015A17	7	7	0	15	R.C. COLUMNS OF PARAPETS	31MAR88	7APR88	31MAR88	7APR88	0
218H014A17	7	7	0	16	R.C. COLUMNS OF PARAPETS	31MAR88	7APR88	5APR88	12APR88	4
218H013A17	7	7	0	17	R.C. COLUMNS OF PARAPETS	9APR88	16APR88	9APR88	16APR88	0
322H188A17	7	7	0	18	R.C. COLUMNS OF PARAPETS	9APR88	16APR88	13APR88	20APR88	4
322H189A17	7	7	0	19	R.C. COLUMNS OF PARAPETS	17APR88	24APR88	17APR88	24APR88	0
322H190A17	7	7	0	20	R.C. COLUMNS OF PARAPETS	17APR88	24APR88	21APR88	28APR88	4
216H021A17	7	7	0	21	R.C. COLUMNS OF PARAPETS	25APR88	2MAY88	25APR88	2MAY88	0
219H010A17	7	7	0	22	R.C. COLUMNS OF PARAPETS	25APR88	2MAY88	30APR88	7MAY88	4
220H007A17	7	7	0	23	R.C. COLUMNS OF PARAPETS	3MAY88	10MAY88	3MAY88	10MAY88	0
213H035A17	7	7	0	24	R.C. COLUMNS OF PARAPETS	3MAY88	10MAY88	8MAY88	15MAY88	4
213H036A17	7	7	0	25	R.C. COLUMNS OF PARAPETS	11MAY88	18MAY88	11MAY88	18MAY88	0
213H037A17	7	7	0	26	R.C. COLUMNS OF PARAPETS	11MAY88	18MAY88	16MAY88	23MAY88	4
213H032A17	7	7	0	27	R.C. COLUMNS OF PARAPETS	19MAY88	26MAY88	19MAY88	26MAY88	0
213H033A17	7	7	0	28	R.C. COLUMNS OF PARAPETS	19MAY88	26MAY88	24MAY88	1JUN88	4
213H034A17	7	7	0	29	R.C. COLUMNS OF PARAPETS	28MAY88	5JUN88	28MAY88	5JUN88	0
219H011A17	7	7	0	30	R.C. COLUMNS OF PARAPETS	28MAY88	5JUN88	2JUN88	9JUN88	4
219H012A17	7	7	0	31	R.C. COLUMNS OF PARAPETS	6JUN88	13JUN88	6JUN88	13JUN88	0

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 30MAR99*

Rev'd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB98 PAGE NO. 5

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
219H012A17	7	7	0	32	R.C. COLUMNS OF PARAPETS	6JUN88	13JUN88	11JUN88	18JUN88	4
217H017A17	7	7	0	33	R.C. COLUMNS OF PARAPETS	14JUN88	21JUN88	14JUN88	21JUN88	0
217H016A17	7	7	0	34	R.C. COLUMNS OF PARAPETS	14JUN88	21JUN88	19JUN88	26JUN88	4
221H003A17	7	7	0	35	R.C. COLUMNS OF PARAPETS	22JUN88	29JUN88	22JUN88	29JUN88	0
221H002A17	7	7	0	36	R.C. COLUMNS OF PARAPETS	22JUN88	29JUN88	27JUN88	4JUL88	4
221H001A17	7	7	0	37	R.C. COLUMNS OF PARAPETS	30JUN88	7JUL88	30JUN88	7JUL88	0
220H009A17	7	7	0	38	R.C. COLUMNS OF PARAPETS	10JUN88	7JUL88	5JUL88	12JUL88	4
220H008A17	7	7	0	39	R.C. COLUMNS OF PARAPETS	9JUL88	16JUL88	9JUL88	16JUL88	0
220H006A17	7	7	0	40	R.C. COLUMNS OF PARAPETS	9JUL88	16JUL88	13JUL88	20JUL88	4
220H005A17	7	7	0	41	R.C. COLUMNS OF PARAPETS	17JUL88	24JUL88	17JUL88	24JUL88	0
220H004A17	7	7	0	42	R.C. COLUMNS OF PARAPETS	17JUL88	24JUL88	21JUL88	28JUL88	4
220H176A17	7	7	0	43	R.C. COLUMNS OF PARAPETS	25JUL88	1AUG88	25JUL88	1AUG88	0
220H177A17	7	7	0	44	R.C. COLUMNS OF PARAPETS	25JUL88	1AUG88	30JUL88	7AUG88	4
220H178A17	7	7	0	45	R.C. COLUMNS OF PARAPETS	2AUG88	10AUG88	2AUG88	10AUG88	0
215H027A17	7	7	0	46	R.C. COLUMNS OF PARAPETS	2AUG88	10AUG88	8AUG88	15AUG88	4
215H026A17	7	7	0	47	R.C. COLUMNS OF PARAPETS	11AUG88	18AUG88	11AUG88	18AUG88	0
215H025A17	7	7	0	48	R.C. COLUMNS OF PARAPETS	11AUG88	18AUG88	16AUG88	23AUG88	4
215H024A17	7	7	0	49	R.C. COLUMNS OF PARAPETS	20AUG88	28AUG88	20AUG88	28AUG88	0
215H023A17	7	7	0	50	R.C. COLUMNS OF PARAPETS	20AUG88	28AUG88	24AUG88	1SEP88	4
215H022A17	7	7	0	51	R.C. COLUMNS OF PARAPETS	29AUG88	5SEP88	29AUG88	5SEP88	0
211H043A18	3	3	0	01	PRECAST WINDOWS ERECTION	15FEB88	17FEB88	24FEB88	28FEB88	8
211H042A18	3	3	0	02	PRECAST WINDOWS ERECTION	18FEB88	21FEB88	1MAR88	3MAR88	9
321H174A18	3	3	0	03	PRECAST WINDOWS ERECTION	22FEB88	24FEB88	6MAR88	8MAR88	10
321H175A18	3	3	0	04	PRECAST WINDOWS ERECTION	27FEB88	29FEB88	15MAR88	13MAR88	11
211H044A18	3	3	0	05	PRECAST WINDOWS ERECTION	1MAR88	3MAR88	15MAR88	17MAR88	12
323H185A18	3	3	0	06	PRECAST WINDOWS ERECTION	5MAR88	7MAR88	20MAR88	22MAR88	13
323H186A18	3	3	0	07	PRECAST WINDOWS ERECTION	8MAR88	10MAR88	24MAR88	27MAR88	14
323H187A18	3	3	0	08	PRECAST WINDOWS ERECTION	12MAR88	14MAR88	30MAR88	2APR88	15
214H030A18	3	3	0	09	PRECAST WINDOWS ERECTION	15MAR88	17MAR88	4APR88	6APR88	16
214H029A18	3	3	0	10	PRECAST WINDOWS ERECTION	19MAR88	21MAR88	5APR88	11APR88	17
214H028A18	3	3	0	11	PRECAST WINDOWS ERECTION	22MAR88	24MAR88	13APR88	16APR88	18
214H031A18	3	3	0	12	PRECAST WINDOWS ERECTION	26MAR88	29MAR88	18APR88	20APR88	19
216H020A18	3	3	0	13	PRECAST WINDOWS ERECTION	30MAR88	2APR88	23APR88	25APR88	20
216H019A18	3	3	0	14	PRECAST WINDOWS ERECTION	3APR88	5APR88	27APR88	30APR88	21
216H018A18	3	3	0	15	PRECAST WINDOWS ERECTION	6APR88	9APR88	2MAY88	4MAY88	22
218H015A18	3	3	0	16	PRECAST WINDOWS ERECTION	10APR88	12APR88	7MAY88	9MAY88	23
218H014A18	3	3	0	17	PRECAST WINDOWS ERECTION	13APR88	16APR88	11MAY88	14MAY88	24
218H013A18	3	3	0	18	PRECAST WINDOWS ERECTION	17APR88	19APR88	16MAY88	18MAY88	25
222H188A18	3	3	0	19	PRECAST WINDOWS ERECTION	20APR88	23APR88	21MAY88	23MAY88	26
222H189A18	3	3	0	20	PRECAST WINDOWS ERECTION	24APR88	26APR88	25MAY88	28MAY88	27
222H190A18	3	3	0	21	PRECAST WINDOWS ERECTION	27APR88	30APR88	31MAY88	2JUN88	28
216H021A18	3	3	0	22	PRECAST WINDOWS ERECTION	1MAY88	3MAY88	5JUN88	7JUN88	29
219H010A18	3	3	0	23	PRECAST WINDOWS ERECTION	4MAY88	7MAY88	9JUN88	12JUN88	30
220H007A18	3	3	0	24	PRECAST WINDOWS ERECTION	8MAY88	10MAY88	14JUN88	16JUN88	31
213H035A18	3	3	0	25	PRECAST WINDOWS ERECTION	11MAY88	14MAY88	19JUN88	21JUN88	32
213H036A18	3	3	0	26	PRECAST WINDOWS ERECTION	15MAY88	17MAY88	23JUN88	26JUN88	33
213H037A18	3	3	0	27	PRECAST WINDOWS ERECTION	18MAY88	21MAY88	28JUN88	30JUN88	34
213H032A18	3	3	0	28	PRECAST WINDOWS ERECTION	22MAY88	24MAY88	3JUL88	5JUL88	35
213H033A18	3	3	0	29	PRECAST WINDOWS ERECTION	25MAY88	28MAY88	7JUL88	10JUL88	36
213H034A18	3	3	0	30	PRECAST WINDOWS ERECTION	29MAY88	1JUN88	12JUL88	14JUL88	37
219H011A18	3	3	0	31	PRECAST WINDOWS ERECTION	2JUN88	5JUN88	17JUL88	19JUL88	38
219H012A18	3	3	0	32	PRECAST WINDOWS ERECTION	6JUN88	8JUN88	21JUL88	24JUL88	39
217H017A18	3	3	0	33	PRECAST WINDOWS ERECTION	9JUN88	12JUN88	26JUL88	28JUL88	40
217H016A18	3	3	0	34	PRECAST WINDOWS ERECTION	13JUN88	15JUN88	31JUL88	2AUG88	41
221H003A18	3	3	0	35	PRECAST WINDOWS ERECTION	16JUN88	19JUN88	6AUG88	8AUG88	42
221H002A18	3	3	0	36	PRECAST WINDOWS ERECTION	20JUN88	22JUN88	10AUG88	13AUG88	43
221H001A18	3	3	0	37	PRECAST WINDOWS ERECTION	23JUN88	26JUN88	15AUG88	17AUG88	44
220H009A18	3	3	0	38	PRECAST WINDOWS ERECTION	27JUN88	29JUN88	20AUG88	22AUG88	45
220H008A18	3	3	0	39	PRECAST WINDOWS ERECTION	30JUN88	3JUL88	23AUG88	27AUG88	45
220H006A18	3	3	0	40	PRECAST WINDOWS ERECTION	4JUL88	6JUL88	29AUG88	31AUG88	46
220H005A18	3	3	0	41	PRECAST WINDOWS ERECTION	7JUL88	10JUL88	1SEP88	4SEP88	46
220H004A18	3	3	0	42	PRECAST WINDOWS ERECTION	11JUL88	13JUL88	6SEP88	8SEP88	47
220H176A18	3	3	0	43	PRECAST WINDOWS ERECTION	18JUL88	20JUL88	10SEP88	12SEP88	48
220H177A18	3	3	0	44	PRECAST WINDOWS ERECTION	21JUL88	24JUL88	14SEP88	17SEP88	49
215H027A18	3	3	0	45	PRECAST WINDOWS ERECTION	25JUL88	27JUL88	18SEP88	20SEP88	49
215H026A18	3	3	0	46	PRECAST WINDOWS ERECTION	1AUG88	3AUG88	21SEP88	25SEP88	49
215H025A18	3	3	0	47	PRECAST WINDOWS ERECTION	6AUG88	8AUG88	26SEP88	28SEP88	49
215H024A18	3	3	0	48	PRECAST WINDOWS ERECTION	9AUG88	11AUG88	1OCT88	3OCT88	44
215H023A18	3	3	0	49	PRECAST WINDOWS ERECTION	16AUG88	18AUG88	4OCT88	6OCT88	41
215H022A18	3	3	0	50	PRECAST WINDOWS ERECTION	20AUG88	22AUG88	9OCT88	11OCT88	42
211H043A19	5	5	0	01	BLOCK WORKS OF PARAPETS	23AUG88	27AUG88	12OCT88	15OCT88	42
211H042A19	5	5	0	02	BLOCK WORKS OF PARAPETS	9FEB88	14FEB88	25FEB88	5MAR88	16
211H041A19	5	5	0	03	BLOCK WORKS OF PARAPETS	9FEB88	14FEB88	5MAR88	9MAR88	20
211H040A19	5	5	0	04	BLOCK WORKS OF PARAPETS	17FEB88	22FEB88	8MAR88	13MAR88	16
323H185A19	5	5	0	05	BLOCK WORKS OF PARAPETS	17FEB88	22FEB88	13MAR88	17MAR88	20
323H186A19	5	5	0	06	BLOCK WORKS OF PARAPETS	27FEB88	2MAR88	16MAR88	21MAR88	16
323H187A19	5	5	0	07	BLOCK WORKS OF PARAPETS	27FEB88	2MAR88	21MAR88	26MAR88	20
214H030A19	5	5	0	08	BLOCK WORKS OF PARAPETS	6MAR88	10MAR88	24MAR88	30MAR88	16
214H029A19	5	5	0	09	BLOCK WORKS OF PARAPETS	6MAR88	10MAR88	30MAR88	4APR88	20
214H028A19	5	5	0	10	BLOCK WORKS OF PARAPETS	14MAR88	19MAR88	3APR88	7APR88	16
214H031A19	5	5	0	11	BLOCK WORKS OF PARAPETS	14MAR88	19MAR88	7APR88	12APR88	20
216H020A19	5	5	0	12	BLOCK WORKS OF PARAPETS	22MAR88	27MAR88	11APR88	16APR88	16
216H019A19	5	5	0	13	BLOCK WORKS OF PARAPETS	22MAR88	27MAR88	16APR88	20APR88	20
216H018A19	5	5	0	14	BLOCK WORKS OF PARAPETS	31MAR88	5APR88	19APR88	24APR88	16
218H015A19	5	5	0	15	BLOCK WORKS OF PARAPETS	31MAR88	5APR88	24APR88	28APR88	20
218H014A19	5	5	0	16	BLOCK WORKS OF PARAPETS	9APR88	13APR88	27APR88	2MAY88	16
218H013A19	5	5	0	17	BLOCK WORKS OF PARAPETS	9APR88	13APR88	2MAY88	7MAY88	20
222H188A19	5	5	0	18	BLOCK WORKS OF PARAPETS	17APR88	21APR88	5MAY88	10MAY88	16
222H189A19	5	5	0	19	BLOCK WORKS OF PARAPETS	17APR88	21APR88	10MAY88	15MAY88	20
222H190A19	5	5	0	20	BLOCK WORKS OF PARAPETS	25APR88	30APR88	14MAY88	18MAY88	16
216H021A19	5	5	0	21	BLOCK WORKS OF PARAPETS	25APR88	30APR88	17MAY88	22MAY88	19
216H020A19	5	5	0	22	BLOCK WORKS OF PARAPETS	3MAY88	8MAY88	21MAY88	25MAY88	15
219H010A19	5	5	0	23	BLOCK WORKS OF PARAPETS	3MAY88	8MAY88	24MAY88	29MAY88	18
220H007A19	5	5	0	24	BLOCK WORKS OF PARAPETS	11MAY88	16MAY88	28MAY88	3JUN88	14
213H035A19	5	5	0	25	BLOCK WORKS OF PARAPETS	11MAY88	16MAY88	1JUN88	6JUN88	17
213H036A19	5	5	0	26	BLOCK WORKS OF PARAPETS	19MAY88	24MAY88	5JUN88	9JUN88	13

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18-31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 6

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
213H036A19	5	5	0	26	BLOCK WORKS OF PARAPETS	19MAY88	24MAY88	8JUN88	13JUN88	16
213H037A19	5	5	0	27	BLOCK WORKS OF PARAPETS	28MAY88	2JUN88	12JUN88	16JUN88	12
213H032A19	5	5	0	28	BLOCK WORKS OF PARAPETS	28MAY88	2JUN88	15JUN88	20JUN88	15
213H033A19	5	5	0	29	BLOCK WORKS OF PARAPETS	6JUN88	11JUN88	19JUN88	23JUN88	11
213H034A19	5	5	0	30	BLOCK WORKS OF PARAPETS	6JUN88	11JUN88	22JUN88	27JUN88	14
219H011A19	5	5	0	31	BLOCK WORKS OF PARAPETS	14JUN88	19JUN88	26JUN88	30JUN88	10
219H012A19	5	5	0	32	BLOCK WORKS OF PARAPETS	14JUN88	19JUN88	29JUN88	4JUL88	13
217H017A19	5	5	0	33	BLOCK WORKS OF PARAPETS	22JUN88	27JUN88	3JUL88	7JUL88	9
217H016A19	5	5	0	34	BLOCK WORKS OF PARAPETS	22JUN88	27JUN88	6JUL88	11JUL88	12
221H003A19	5	5	0	35	BLOCK WORKS OF PARAPETS	30JUN88	5JUL88	10JUL88	14JUL88	8
221H002A19	5	5	0	36	BLOCK WORKS OF PARAPETS	30JUN88	5JUL88	13JUL88	18JUL88	11
221H001A19	5	5	0	37	BLOCK WORKS OF PARAPETS	9JUL88	13JUL88	17JUL88	21JUL88	7
220H009A19	5	5	0	38	BLOCK WORKS OF PARAPETS	9JUL88	13JUL88	20JUL88	25JUL88	10
220H008A19	5	5	0	39	BLOCK WORKS OF PARAPETS	17JUL88	21JUL88	24JUL88	28JUL88	6
220H006A19	5	5	0	40	BLOCK WORKS OF PARAPETS	17JUL88	21JUL88	27JUL88	1AUG88	9
220H005A19	5	5	0	41	BLOCK WORKS OF PARAPETS	25JUL88	30JUL88	31JUL88	6AUG88	5
220H004A19	5	5	0	42	BLOCK WORKS OF PARAPETS	25JUL88	30JUL88	3AUG88	9AUG88	8
320H176A19	5	5	0	43	BLOCK WORKS OF PARAPETS	2AUG88	8AUG88	8AUG88	13AUG88	4
320H177A19	5	5	0	44	BLOCK WORKS OF PARAPETS	2AUG88	8AUG88	11AUG88	16AUG88	7
320H178A19	5	5	0	45	BLOCK WORKS OF PARAPETS	11AUG88	16AUG88	15AUG88	20AUG88	3
215H027A19	5	5	0	46	BLOCK WORKS OF PARAPETS	11AUG88	16AUG88	18AUG88	23AUG88	6
215H026A19	5	5	0	47	BLOCK WORKS OF PARAPETS	20AUG88	24AUG88	22AUG88	28AUG88	2
215H025A19	5	5	0	48	BLOCK WORKS OF PARAPETS	20AUG88	24AUG88	27AUG88	31AUG88	5
215H024A19	5	5	0	49	BLOCK WORKS OF PARAPETS	29AUG88	3SEP88	30AUG88	4SEP88	1
215H023A19	5	5	0	50	BLOCK WORKS OF PARAPETS	29AUG88	3SEP88	3SEP88	7SEP88	4
215H022A19	5	5	0	51	BLOCK WORKS OF PARAPETS	6SEP88	11SEP88	6SEP88	11SEP88	0
211H043A21	5	5	0	01	BLOCK WORKS OF PENTHOUSE	27FEB88	2MAR88	29FEB88	5MAR88	2
211H042A21	5	5	0	02	BLOCK WORKS OF PENTHOUSE	27FEB88	2MAR88	5MAR88	9MAR88	6
321H174A21	5	5	0	03	BLOCK WORKS OF PENTHOUSE	3MAR88	8MAR88	8MAR88	13MAR88	4
211H044A21	5	5	0	04	BLOCK WORKS OF PENTHOUSE	8MAR88	13MAR88	13MAR88	17MAR88	4
323H185A21	5	5	0	05	BLOCK WORKS OF PENTHOUSE	9MAR88	14MAR88	16MAR88	21MAR88	6
323H186A21	5	5	0	06	BLOCK WORKS OF PENTHOUSE	14MAR88	19MAR88	21MAR88	26MAR88	6
323H187A21	5	5	0	07	BLOCK WORKS OF PENTHOUSE	19MAR88	23MAR88	24MAR88	30MAR88	5
214H030A21	5	5	0	08	BLOCK WORKS OF PENTHOUSE	22MAR88	27MAR88	30MAR88	4APR88	6
214H029A21	5	5	0	09	BLOCK WORKS OF PENTHOUSE	24MAR88	30MAR88	3APR88	7APR88	7
214H028A21	5	5	0	10	BLOCK WORKS OF PENTHOUSE	30MAR88	4APR88	7APR88	12APR88	7
214H027A21	5	5	0	11	BLOCK WORKS OF PENTHOUSE	3APR88	7APR88	11APR88	16APR88	7
214H031A21	5	5	0	12	BLOCK WORKS OF PENTHOUSE	5APR88	10APR88	16APR88	20APR88	9
216H020A21	5	5	0	13	BLOCK WORKS OF PENTHOUSE	10APR88	14APR88	19APR88	24APR88	8
216H019A21	5	5	0	14	BLOCK WORKS OF PENTHOUSE	13APR88	18APR88	24APR88	28APR88	9
216H018A21	5	5	0	15	BLOCK WORKS OF PENTHOUSE	17APR88	21APR88	27APR88	2MAY88	9
218H015A21	5	5	0	16	BLOCK WORKS OF PENTHOUSE	20APR88	25APR88	2MAY88	7MAY88	10
218H014A21	5	5	0	17	BLOCK WORKS OF PENTHOUSE	24APR88	28APR88	5MAY88	10MAY88	10
218H013A21	5	5	0	18	BLOCK WORKS OF PENTHOUSE	27APR88	2MAY88	10MAY88	15MAY88	11
322H188A21	5	5	0	19	BLOCK WORKS OF PENTHOUSE	1MAY88	5MAY88	14MAY88	18MAY88	11
322H189A21	5	5	0	20	BLOCK WORKS OF PENTHOUSE	4MAY88	9MAY88	17MAY88	22MAY88	11
322H190A21	5	5	0	21	BLOCK WORKS OF PENTHOUSE	8MAY88	12MAY88	21MAY88	25MAY88	11
216H021A21	5	5	0	22	BLOCK WORKS OF PENTHOUSE	11MAY88	16MAY88	24MAY88	29MAY88	11
219H010A21	5	5	0	23	BLOCK WORKS OF PENTHOUSE	15MAY88	19MAY88	28MAY88	2JUN88	11
220H007A21	5	5	0	24	BLOCK WORKS OF PENTHOUSE	18MAY88	23MAY88	1JUN88	6JUN88	11
213H035A21	5	5	0	25	BLOCK WORKS OF PENTHOUSE	22MAY88	26MAY88	5JUN88	9JUN88	11
213H036A21	5	5	0	26	BLOCK WORKS OF PENTHOUSE	25MAY88	31MAY88	8JUN88	13JUN88	11
213H037A21	5	5	0	27	BLOCK WORKS OF PENTHOUSE	29MAY88	4JUN88	12JUN88	16JUN88	11
213H032A21	5	5	0	28	BLOCK WORKS OF PENTHOUSE	2JUN88	7JUN88	15JUN88	20JUN88	11
213H033A21	5	5	0	29	BLOCK WORKS OF PENTHOUSE	6JUN88	11JUN88	19JUN88	23JUN88	11
213H034A21	5	5	0	30	BLOCK WORKS OF PENTHOUSE	9JUN88	14JUN88	22JUN88	27JUN88	11
219H011A21	5	5	0	31	BLOCK WORKS OF PENTHOUSE	14JUN88	19JUN88	26JUN88	30JUN88	10
219H012A21	5	5	0	32	BLOCK WORKS OF PENTHOUSE	16JUN88	21JUN88	29JUN88	4JUL88	11
217H017A21	5	5	0	33	BLOCK WORKS OF PENTHOUSE	22JUN88	27JUN88	3JUL88	7JUL88	9
217H016A21	5	5	0	34	BLOCK WORKS OF PENTHOUSE	23JUN88	28JUN88	6JUL88	11JUL88	11
221H003A21	5	5	0	35	BLOCK WORKS OF PENTHOUSE	30JUN88	5JUL88	10JUL88	14JUL88	8
221H002A21	5	5	0	36	BLOCK WORKS OF PENTHOUSE	30JUN88	5JUL88	13JUL88	18JUL88	11
221H001A21	5	5	0	37	BLOCK WORKS OF PENTHOUSE	9JUL88	13JUL88	17JUL88	21JUL88	7
220H009A21	5	5	0	38	BLOCK WORKS OF PENTHOUSE	9JUL88	13JUL88	20JUL88	25JUL88	10
220H008A21	5	5	0	39	BLOCK WORKS OF PENTHOUSE	17JUL88	21JUL88	24JUL88	28JUL88	6
220H006A21	5	5	0	40	BLOCK WORKS OF PENTHOUSE	17JUL88	21JUL88	27JUL88	1AUG88	9
220H005A21	5	5	0	41	BLOCK WORKS OF PENTHOUSE	25JUL88	30JUL88	31JUL88	6AUG88	5
220H004A21	5	5	0	42	BLOCK WORKS OF PENTHOUSE	25JUL88	30JUL88	3AUG88	9AUG88	8
320H176A21	5	5	0	43	BLOCK WORKS OF PENTHOUSE	2AUG88	8AUG88	8AUG88	13AUG88	4
320H177A21	5	5	0	44	BLOCK WORKS OF PENTHOUSE	2AUG88	8AUG88	11AUG88	16AUG88	7
320H178A21	5	5	0	45	BLOCK WORKS OF PENTHOUSE	11AUG88	16AUG88	15AUG88	20AUG88	3
215H027A21	5	5	0	46	BLOCK WORKS OF PENTHOUSE	13AUG88	17AUG88	18AUG88	23AUG88	5
215H026A21	5	5	0	47	BLOCK WORKS OF PENTHOUSE	20AUG88	24AUG88	22AUG88	28AUG88	2
215H025A21	5	5	0	48	BLOCK WORKS OF PENTHOUSE	20AUG88	24AUG88	27AUG88	31AUG88	5
215H024A21	5	5	0	49	BLOCK WORKS OF PENTHOUSE	29AUG88	3SEP88	30AUG88	4SEP88	1
215H023A21	5	5	0	50	BLOCK WORKS OF PENTHOUSE	30AUG88	4SEP88	3SEP88	7SEP88	3
215H022A21	5	5	0	51	BLOCK WORKS OF PENTHOUSE	6SEP88	11SEP88	6SEP88	11SEP88	0
211H043A22	3	3	0	01	ROOF DRAINS	3MAR88	6MAR88	17MAR88	20MAR88	12
211H042A22	3	3	0	02	ROOF DRAINS	7MAR88	9MAR88	22MAR88	24MAR88	13
321H174A22	3	3	0	03	ROOF DRAINS	10MAR88	13MAR88	27MAR88	30MAR88	14
321H175A22	3	3	0	04	ROOF DRAINS	14MAR88	16MAR88	2APR88	4APR88	15
211H044A22	3	3	0	05	ROOF DRAINS	17MAR88	20MAR88	6APR88	9APR88	16
323H185A22	3	3	0	06	ROOF DRAINS	21MAR88	23MAR88	11APR88	13APR88	17
323H186A22	3	3	0	07	ROOF DRAINS	24MAR88	27MAR88	16APR88	18APR88	18
323H187A22	3	3	0	08	ROOF DRAINS	29MAR88	31MAR88	20APR88	23APR88	19
214H030A22	3	3	0	09	ROOF DRAINS	2APR88	4APR88	25APR88	27APR88	20
214H029A22	3	3	0	10	ROOF DRAINS	5APR88	7APR88	30APR88	2MAY88	21
214H028A22	3	3	0	11	ROOF DRAINS	9APR88	11APR88	4MAY88	7MAY88	22
214H031A22	3	3	0	12	ROOF DRAINS	12APR88	14APR88	9MAY88	11MAY88	23
216H020A22	3	3	0	13	ROOF DRAINS	16APR88	18APR88	14MAY88	16MAY88	24
216H019A22	3	3	0	14	ROOF DRAINS	19APR88	21APR88	18MAY88	21MAY88	25
216H018A22	3	3	0	15	ROOF DRAINS	23APR88	25APR88	23MAY88	25MAY88	26
218H015A22	3	3	0	16	ROOF DRAINS	26APR88	28APR88	28MAY88	31MAY88	27
218H014A22	3	3	0	17	ROOF DRAINS	30APR88	2MAY88	2JUN88	5JUN88	28
218H013A22	3	3	0	18	ROOF DRAINS	3MAY88	5MAY88	7JUN88	9JUN88	29
322H188A22	3	3	0	19	ROOF DRAINS	7MAY88	9MAY88	12JUN88	14JUN88	30

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205
18:31

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 7

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
322H189A22	3	3	0	20	ROOF DRAINS	10MAY88	12MAY88	16JUN88	19JUN88	31
322H190A22	3	3	0	21	ROOF DRAINS	14MAY88	16MAY88	21JUN88	23JUN88	32
216H021A22	3	3	0	22	ROOF DRAINS	17MAY88	19MAY88	26JUN88	28JUN88	33
219H010A22	3	3	0	23	ROOF DRAINS	21MAY88	23MAY88	30JUN88	3JUL88	34
220H007A22	3	3	0	24	ROOF DRAINS	24MAY88	26MAY88	5JUL88	7JUL88	35
213H035A22	3	3	0	25	ROOF DRAINS	28MAY88	31MAY88	10JUL88	12JUL88	36
213H036A22	3	3	0	26	ROOF DRAINS	1JUN88	4JUN88	14JUL88	17JUL88	37
213H037A22	3	3	0	27	ROOF DRAINS	5JUN88	7JUN88	19JUL88	21JUL88	38
213H038A22	3	3	0	28	ROOF DRAINS	8JUN88	11JUN88	24JUL88	26JUL88	39
213H039A22	3	3	0	29	ROOF DRAINS	12JUN88	14JUN88	28JUL88	31JUL88	40
213H040A22	3	3	0	30	ROOF DRAINS	15JUN88	18JUN88	2AUG88	6AUG88	41
219H011A22	3	3	0	31	ROOF DRAINS	20JUN88	22JUN88	8AUG88	10AUG88	41
219H012A22	3	3	0	32	ROOF DRAINS	23JUN88	26JUN88	13AUG88	15AUG88	42
217H017A22	3	3	0	33	ROOF DRAINS	28JUN88	30JUN88	17AUG88	20AUG88	42
217H018A22	3	3	0	34	ROOF DRAINS	2JUL88	4JUL88	22AUG88	24AUG88	43
221H003A22	3	3	0	35	ROOF DRAINS	6JUL88	9JUL88	28AUG88	30AUG88	43
221H004A22	3	3	0	36	ROOF DRAINS	10JUL88	12JUL88	1SEP88	4SEP88	44
221H005A22	3	3	0	37	ROOF DRAINS	14JUL88	17JUL88	6SEP88	8SEP88	44
220H009A22	3	3	0	38	ROOF DRAINS	18JUL88	20JUL88	11SEP88	13SEP88	45
220H010A22	3	3	0	39	ROOF DRAINS	23JUL88	25JUL88	14SEP88	17SEP88	44
220H011A22	3	3	0	40	ROOF DRAINS	26JUL88	28JUL88	19SEP88	21SEP88	45
220H012A22	3	3	0	41	ROOF DRAINS	31JUL88	2AUG88	22SEP88	25SEP88	44
220H013A22	3	3	0	42	ROOF DRAINS	3AUG88	7AUG88	27SEP88	29SEP88	45
320H176A22	3	3	0	43	ROOF DRAINS	9AUG88	11AUG88	1OCT88	3OCT88	44
320H177A22	3	3	0	44	ROOF DRAINS	13AUG88	15AUG88	5OCT88	8OCT88	45
320H178A22	3	3	0	45	ROOF DRAINS	17AUG88	20AUG88	9OCT88	11OCT88	44
215H027A22	3	3	0	46	ROOF DRAINS	21AUG88	23AUG88	13OCT88	16OCT88	45
215H028A22	3	3	0	47	ROOF DRAINS	24AUG88	29AUG88	17OCT88	19OCT88	44
215H029A22	3	3	0	48	ROOF DRAINS	30AUG88	1SEP88	22OCT88	24OCT88	45
215H030A22	3	3	0	49	ROOF DRAINS	4SEP88	6SEP88	25OCT88	27OCT88	44
215H031A22	3	3	0	50	ROOF DRAINS	7SEP88	10SEP88	30OCT88	1NOV88	45
215H032A22	3	3	0	51	ROOF DRAINS	12SEP88	14SEP88	2NOV88	5NOV88	44
211H043A23	21	21	0	01	SANDLIME BRICKS CLADDING	3MAR88	27MAR88	6MAR88	30MAR88	2
211H044A23	21	21	0	02	SANDLIME BRICKS CLADDING	3MAR88	27MAR88	10MAR88	4APR88	6
321H174A23	21	21	0	03	SANDLIME BRICKS CLADDING	9MAR88	3APR88	14MAR88	7APR88	6
321H175A23	21	21	0	04	SANDLIME BRICKS CLADDING	14MAR88	7APR88	19MAR88	12APR88	4
211H045A23	21	21	0	05	SANDLIME BRICKS CLADDING	16MAR88	10APR88	23MAR88	16APR88	5
323H185A23	21	21	0	06	SANDLIME BRICKS CLADDING	20MAR88	13APR88	27MAR88	20APR88	6
323H186A23	21	21	0	07	SANDLIME BRICKS CLADDING	24MAR88	18APR88	31MAR88	24APR88	5
323H187A23	21	21	0	08	SANDLIME BRICKS CLADDING	29MAR88	21APR88	5APR88	28APR88	6
214H030A23	21	21	0	09	SANDLIME BRICKS CLADDING	31MAR88	24APR88	9APR88	2MAY88	7
214H031A23	21	21	0	10	SANDLIME BRICKS CLADDING	5APR88	28APR88	13APR88	7MAY88	7
214H032A23	21	21	0	11	SANDLIME BRICKS CLADDING	9APR88	2MAY88	17APR88	10MAY88	7
214H033A23	21	21	0	12	SANDLIME BRICKS CLADDING	11APR88	4MAY88	21APR88	15MAY88	9
216H020A23	21	21	0	13	SANDLIME BRICKS CLADDING	16APR88	9MAY88	25APR88	18MAY88	8
216H021A23	21	21	0	14	SANDLIME BRICKS CLADDING	19APR88	12MAY88	30APR88	23MAY88	9
216H022A23	21	21	0	15	SANDLIME BRICKS CLADDING	23APR88	16MAY88	3MAY88	26MAY88	9
218H015A23	21	21	0	16	SANDLIME BRICKS CLADDING	26APR88	19MAY88	8MAY88	1JUN88	10
218H016A23	21	21	0	17	SANDLIME BRICKS CLADDING	30APR88	23MAY88	11MAY88	5JUN88	10
218H017A23	21	21	0	18	SANDLIME BRICKS CLADDING	3MAY88	26MAY88	16MAY88	9JUN88	11
322H188A23	21	21	0	19	SANDLIME BRICKS CLADDING	7MAY88	31MAY88	19MAY88	13JUN88	11
322H189A23	21	21	0	20	SANDLIME BRICKS CLADDING	10MAY88	4JUN88	23MAY88	16JUN88	11
322H190A23	21	21	0	21	SANDLIME BRICKS CLADDING	14MAY88	7JUN88	26MAY88	20JUN88	11
216H023A23	21	21	0	22	SANDLIME BRICKS CLADDING	17MAY88	11JUN88	31MAY88	23JUN88	11
219H010A23	21	21	0	23	SANDLIME BRICKS CLADDING	21MAY88	14JUN88	4JUN88	27JUN88	11
220H007A23	21	21	0	24	SANDLIME BRICKS CLADDING	24MAY88	18JUN88	7JUN88	30JUN88	11
213H035A23	21	21	0	25	SANDLIME BRICKS CLADDING	28MAY88	21JUN88	11JUN88	4JUL88	11
213H036A23	21	21	0	26	SANDLIME BRICKS CLADDING	1JUN88	25JUN88	14JUN88	7JUL88	11
213H037A23	21	21	0	27	SANDLIME BRICKS CLADDING	5JUN88	28JUN88	18JUN88	11JUL88	11
213H038A23	21	21	0	28	SANDLIME BRICKS CLADDING	8JUN88	2JUL88	21JUN88	14JUL88	11
213H039A23	21	21	0	29	SANDLIME BRICKS CLADDING	12JUN88	5JUL88	25JUN88	18JUL88	11
213H040A23	21	21	0	30	SANDLIME BRICKS CLADDING	15JUN88	9JUL88	28JUN88	21JUL88	11
219H011A23	21	21	0	31	SANDLIME BRICKS CLADDING	20JUN88	13JUL88	3JUL88	25JUL88	10
219H012A23	21	21	0	32	SANDLIME BRICKS CLADDING	22JUN88	16JUL88	5JUL88	28JUL88	11
217H017A23	21	21	0	33	SANDLIME BRICKS CLADDING	28JUN88	21JUL88	9JUL88	1AUG88	9
217H018A23	21	21	0	34	SANDLIME BRICKS CLADDING	29JUN88	23JUL88	12JUL88	6AUG88	11
221H003A23	21	21	0	35	SANDLIME BRICKS CLADDING	6JUL88	30JUL88	16JUL88	9AUG88	8
221H004A23	21	21	0	36	SANDLIME BRICKS CLADDING	6JUL88	30JUL88	19JUL88	13AUG88	11
221H005A23	21	21	0	37	SANDLIME BRICKS CLADDING	14JUL88	8AUG88	23JUL88	16AUG88	7
220H009A23	21	21	0	38	SANDLIME BRICKS CLADDING	14JUL88	8AUG88	26JUL88	20AUG88	10
220H010A23	21	21	0	39	SANDLIME BRICKS CLADDING	23JUL88	16AUG88	30JUL88	23AUG88	6
220H011A23	21	21	0	40	SANDLIME BRICKS CLADDING	23JUL88	16AUG88	2AUG88	28AUG88	9
220H012A23	21	21	0	41	SANDLIME BRICKS CLADDING	31JUL88	24AUG88	7AUG88	31AUG88	5
220H013A23	21	21	0	42	SANDLIME BRICKS CLADDING	31JUL88	24AUG88	10AUG88	4SEP88	8
320H176A23	21	21	0	43	SANDLIME BRICKS CLADDING	9AUG88	3SEP88	14AUG88	7SEP88	4
320H177A23	21	21	0	44	SANDLIME BRICKS CLADDING	9AUG88	3SEP88	17AUG88	11SEP88	7
320H178A23	21	21	0	45	SANDLIME BRICKS CLADDING	17AUG88	11SEP88	21AUG88	14SEP88	3
215H027A23	21	21	0	46	SANDLIME BRICKS CLADDING	18AUG88	12SEP88	24AUG88	18SEP88	5
215H028A23	21	21	0	47	SANDLIME BRICKS CLADDING	27AUG88	19SEP88	29AUG88	21SEP88	2
215H029A23	21	21	0	48	SANDLIME BRICKS CLADDING	27AUG88	19SEP88	1SEP88	25SEP88	5
215H030A23	21	21	0	49	SANDLIME BRICKS CLADDING	4SEP88	27SEP88	5SEP88	28SEP88	1
215H031A23	21	21	0	50	SANDLIME BRICKS CLADDING	5SEP88	28SEP88	8SEP88	2OCT88	3
215H032A23	21	21	0	51	SANDLIME BRICKS CLADDING	12SEP88	5OCT88	12SEP88	5OCT88	0
211H043A24	4	4	0	01	ELECTRICAL MAIN SWITCH BOARD	3MAR88	7MAR88	28MAR88	1JUN88	72
211H044A24	4	4	0	02	ELECTRICAL MAIN SWITCH BOARD	9MAR88	12MAR88	2JUN88	6JUN88	72
321H174A24	4	4	0	03	ELECTRICAL MAIN SWITCH BOARD	13MAR88	16MAR88	7JUN88	11JUN88	72
321H175A24	4	4	0	04	ELECTRICAL MAIN SWITCH BOARD	17MAR88	21MAR88	12JUN88	15JUN88	72
211H045A24	4	4	0	05	ELECTRICAL MAIN SWITCH BOARD	22MAR88	26MAR88	16JUN88	20JUN88	72
323H185A24	4	4	0	06	ELECTRICAL MAIN SWITCH BOARD	27MAR88	31MAR88	21JUN88	25JUN88	72
323H186A24	4	4	0	07	ELECTRICAL MAIN SWITCH BOARD	2APR88	5APR88	26JUN88	29JUN88	72
323H187A24	4	4	0	08	ELECTRICAL MAIN SWITCH BOARD	6APR88	10APR88	30JUN88	4JUL88	72
214H030A24	4	4	0	09	ELECTRICAL MAIN SWITCH BOARD	11APR88	14APR88	5JUL88	9JUL88	72
214H031A24	4	4	0	10	ELECTRICAL MAIN SWITCH BOARD	16APR88	19APR88	10JUL88	13JUL88	72
214H032A24	4	4	0	11	ELECTRICAL MAIN SWITCH BOARD	20APR88	24APR88	14JUL88	18JUL88	72
214H033A24	4	4	0	12	ELECTRICAL MAIN SWITCH BOARD	25APR88	28APR88	19JUL88	23JUL88	72
216H020A24	4	4	0	13	ELECTRICAL MAIN SWITCH BOARD	30APR88	3MAY88	24JUL88	27JUL88	72

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.				PRIMAVERA PROJECT PLANNER				Correcting Out-of-Logic Progress NSq			
REPORT DATE 21SEP95 RUN NO. 205				SEVEN SEAS, CONSTRUCTION OF 51 HOUSES				START DATE 1APR87 FIN DATE 10MAR89*			
18:31											
Revd & Decel Schl by Typical Activity & ES								DATA DATE 1FEB88 PAGE NO. 8			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT	
216H019A24	4	4	0	14	ELECTRICAL MAIN SWITCH BOARD	4MAY88	8MAY88	28JUL88	1AUG88	72	
216H018A24	4	4	0	15	ELECTRICAL MAIN SWITCH BOARD	9MAY88	12MAY88	2AUG88	7AUG88	72	
218H015A24	4	4	0	16	ELECTRICAL MAIN SWITCH BOARD	14MAY88	17MAY88	8AUG88	11AUG88	72	
218H014A24	4	4	0	17	ELECTRICAL MAIN SWITCH BOARD	18MAY88	22MAY88	13AUG88	16AUG88	72	
218H013A24	4	4	0	18	ELECTRICAL MAIN SWITCH BOARD	23MAY88	26MAY88	17AUG88	21AUG88	72	
322H188A24	4	4	0	19	ELECTRICAL MAIN SWITCH BOARD	28MAY88	1JUN88	22AUG88	27AUG88	72	
322H189A24	4	4	0	20	ELECTRICAL MAIN SWITCH BOARD	2JUN88	6JUN88	28AUG88	31AUG88	72	
322H190A24	4	4	0	21	ELECTRICAL MAIN SWITCH BOARD	7JUN88	11JUN88	1SEP88	5SEP88	72	
216H021A24	4	4	0	22	ELECTRICAL MAIN SWITCH BOARD	12JUN88	15JUN88	6SEP88	10SEP88	72	
219H010A24	4	4	0	23	ELECTRICAL MAIN SWITCH BOARD	16JUN88	20JUN88	11SEP88	14SEP88	72	
220H007A24	4	4	0	24	ELECTRICAL MAIN SWITCH BOARD	21JUN88	25JUN88	15SEP88	19SEP88	72	
213H035A24	4	4	0	25	ELECTRICAL MAIN SWITCH BOARD	26JUN88	29JUN88	20SEP88	24SEP88	72	
213H036A24	4	4	0	26	ELECTRICAL MAIN SWITCH BOARD	30JUN88	4JUL88	25SEP88	28SEP88	72	
213H037A24	4	4	0	27	ELECTRICAL MAIN SWITCH BOARD	5JUL88	9JUL88	29SEP88	3OCT88	72	
213H032A24	4	4	0	28	ELECTRICAL MAIN SWITCH BOARD	10JUL88	13JUL88	4OCT88	8OCT88	72	
213H034A24	4	4	0	29	ELECTRICAL MAIN SWITCH BOARD	14JUL88	18JUL88	9OCT88	12OCT88	72	
213H033A24	4	4	0	30	ELECTRICAL MAIN SWITCH BOARD	19JUL88	23JUL88	13OCT88	17OCT88	72	
219H011A24	4	4	0	31	ELECTRICAL MAIN SWITCH BOARD	24JUL88	27JUL88	18OCT88	22OCT88	72	
219H012A24	4	4	0	32	ELECTRICAL MAIN SWITCH BOARD	28JUL88	1AUG88	23OCT88	26OCT88	72	
217H017A24	4	4	0	33	ELECTRICAL MAIN SWITCH BOARD	2AUG88	7AUG88	27OCT88	31OCT88	72	
217H016A24	4	4	0	34	ELECTRICAL MAIN SWITCH BOARD	8AUG88	11AUG88	1NOV88	5NOV88	72	
221H003A24	4	4	0	35	ELECTRICAL MAIN SWITCH BOARD	13AUG88	16AUG88	6NOV88	9NOV88	72	
221H002A24	4	4	0	36	ELECTRICAL MAIN SWITCH BOARD	17AUG88	21AUG88	10NOV88	14NOV88	72	
221H001A24	4	4	0	37	ELECTRICAL MAIN SWITCH BOARD	22AUG88	27AUG88	15NOV88	19NOV88	72	
220H009A24	4	4	0	38	ELECTRICAL MAIN SWITCH BOARD	28AUG88	31AUG88	20NOV88	23NOV88	72	
220H008A24	4	4	0	39	ELECTRICAL MAIN SWITCH BOARD	1SEP88	5SEP88	24NOV88	28NOV88	72	
220H006A24	4	4	0	40	ELECTRICAL MAIN SWITCH BOARD	6SEP88	10SEP88	29NOV88	3DEC88	72	
220H005A24	4	4	0	41	ELECTRICAL MAIN SWITCH BOARD	11SEP88	14SEP88	4DEC88	7DEC88	72	
220H004A24	4	4	0	42	ELECTRICAL MAIN SWITCH BOARD	15SEP88	19SEP88	8DEC88	12DEC88	72	
320H176A24	4	4	0	43	ELECTRICAL MAIN SWITCH BOARD	20SEP88	24SEP88	13DEC88	17DEC88	72	
320H177A24	4	4	0	44	ELECTRICAL MAIN SWITCH BOARD	25SEP88	28SEP88	18DEC88	21DEC88	72	
320H178A24	4	4	0	45	ELECTRICAL MAIN SWITCH BOARD	29SEP88	3OCT88	22DEC88	26DEC88	72	
215H027A24	4	4	0	46	ELECTRICAL MAIN SWITCH BOARD	4OCT88	8OCT88	27DEC88	31DEC88	72	
215H026A24	4	4	0	47	ELECTRICAL MAIN SWITCH BOARD	9OCT88	12OCT88	2JAN89	5JAN89	72	
215H025A24	4	4	0	48	ELECTRICAL MAIN SWITCH BOARD	13OCT88	17OCT88	7JAN89	10JAN89	72	
215H024A24	4	4	0	49	ELECTRICAL MAIN SWITCH BOARD	18OCT88	22OCT88	11JAN89	15JAN89	72	
215H023A24	4	4	0	50	ELECTRICAL MAIN SWITCH BOARD	23OCT88	26OCT88	16JAN89	19JAN89	72	
215H022A24	4	4	0	51	ELECTRICAL MAIN SWITCH BOARD	27OCT88	31OCT88	21JAN89	24JAN89	72	
321H043A25	7	7	0	01	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	24FEB88	3MAR88	29FEB88	7MAR88	3	
321H042A25	7	7	0	02	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	29FEB88	7MAR88	5MAR88	12MAR88	4	
321H174A25	7	7	0	03	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	5MAR88	12MAR88	9MAR88	16MAR88	4	
321H175A25	7	7	0	04	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	8MAR88	15MAR88	14MAR88	21MAR88	5	
321H044A25	7	7	0	05	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	13MAR88	20MAR88	19MAR88	26MAR88	5	
323H185A25	7	7	0	06	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	16MAR88	23MAR88	23MAR88	31MAR88	6	
323H186A25	7	7	0	07	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	21MAR88	29MAR88	29MAR88	5APR88	6	
323H187A25	7	7	0	08	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	24MAR88	2APR88	3APR88	10APR88	7	
214H030A25	7	7	0	09	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	30MAR88	6APR88	7APR88	14APR88	7	
214H029A25	7	7	0	10	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	3APR88	10APR88	12APR88	19APR88	8	
214H028A25	7	7	0	11	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	7APR88	14APR88	17APR88	24APR88	8	
214H031A25	7	7	0	12	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	11APR88	18APR88	21APR88	28APR88	9	
216H020A25	7	7	0	13	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	16APR88	23APR88	26APR88	3MAY88	10	
216H019A25	7	7	0	14	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	19APR88	26APR88	1MAY88	8MAY88	9	
216H018A25	7	7	0	15	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	24APR88	1MAY88	5MAY88	12MAY88	10	
218H015A25	7	7	0	16	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	27APR88	4MAY88	10MAY88	17MAY88	11	
218H014A25	7	7	0	17	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	2MAY88	9MAY88	15MAY88	22MAY88	11	
218H013A25	7	7	0	18	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	5MAY88	12MAY88	19MAY88	26MAY88	12	
322H188A25	7	7	0	19	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	10MAY88	17MAY88	24MAY88	1JUN88	12	
322H189A25	7	7	0	20	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	14MAY88	21MAY88	29MAY88	6JUN88	13	
322H190A25	7	7	0	21	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	18MAY88	25MAY88	4JUN88	11JUN88	13	
216H021A25	7	7	0	22	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	22MAY88	29MAY88	8JUN88	15JUN88	14	
219H010A25	7	7	0	23	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	26MAY88	4JUN88	13JUN88	20JUN88	14	
220H007A25	7	7	0	24	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	31MAY88	7JUN88	18JUN88	25JUN88	15	
213H035A25	7	7	0	25	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	5JUN88	12JUN88	22JUN88	29JUN88	15	
213H036A25	7	7	0	26	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	8JUN88	15JUN88	27JUN88	4JUL88	16	
213H037A25	7	7	0	27	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	13JUN88	20JUN88	2JUL88	9JUL88	16	
213H032A25	7	7	0	28	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	16JUN88	23JUN88	6JUL88	13JUL88	17	
213H033A25	7	7	0	29	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	21JUN88	28JUN88	11JUL88	18JUL88	17	
213H034A25	7	7	0	30	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	25JUN88	2JUL88	16JUL88	23JUL88	18	
219H011A25	7	7	0	31	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	29JUN88	6JUL88	20JUL88	27JUL88	18	
219H012A25	7	7	0	32	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	3JUL88	10JUL88	25JUL88	1AUG88	19	
217H017A25	7	7	0	33	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	7JUL88	14JUL88	30JUL88	7AUG88	19	
217H016A25	7	7	0	34	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	11JUL88	18JUL88	3AUG88	11AUG88	20	
221H003A25	7	7	0	35	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	16JUL88	23JUL88	9AUG88	16AUG88	20	
221H002A25	7	7	0	36	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	19JUL88	26JUL88	14AUG88	21AUG88	21	
221H001A25	7	7	0	37	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	24JUL88	31JUL88	18AUG88	27AUG88	21	
220H009A25	7	7	0	38	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	27JUL88	3AUG88	23AUG88	31AUG88	22	
220H008A25	7	7	0	39	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	1AUG88	9AUG88	28AUG88	4SEP88	21	
220H006A25	7	7	0	40	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	6AUG88	13AUG88	1SEP88	8SEP88	22	
220H005A25	7	7	0	41	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	10AUG88	17AUG88	5SEP88	12SEP88	21	
220H004A25	7	7	0	42	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	14AUG88	21AUG88	10SEP88	17SEP88	22	
320H176A25	7	7	0	43	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	18AUG88	27AUG88	13SEP88	20SEP88	21	
320H177A25	7	7	0	44	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	22AUG88	30AUG88	18SEP88	25SEP88	22	
320H178A25	7	7	0	45	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	28AUG88	4SEP88	21SEP88	28SEP88	22	
215H027A25	7	7	0	46	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	31AUG88	7SEP88	26SEP88	3OCT88	21	
215H026A25	7	7	0	47	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	5SEP88	12SEP88	29SEP88	6OCT88	22	
215H025A25	7	7	0	48	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	8SEP88	15SEP88	4OCT88	11OCT88	22	
215H024A25	7	7	0	49	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	13SEP88	20SEP88	8OCT88	15OCT88	21	
215H023A25	7	7	0	50	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	17SEP88	24SEP88	12OCT88	19OCT88	22	
215H022A25	7	7	0	51	WALL-EMBEDDED ELECTRICAL INSTALLATIONS	21SEP88	28SEP88	16OCT88	23OCT88	21	
321H043A26	10	10	0	01	CAST IRON SANITARY PIPES	24FEB88	7MAR88	27FEB88	8MAR88	1	
321H042A26	10	10	0	02	CAST IRON SANITARY PIPES	29FEB88	10MAR88	2MAR88	13MAR88	2	
321H174A26	10	10	0	03	CAST IRON SANITARY PIPES	3MAR88	14MAR88	7MAR88	17MAR88	3	
321H175A26	10	10	0	04	CAST IRON SANITARY PIPES	8MAR88	19MAR88	12MAR88	22MAR88	3	
321H044A26	10	10	0	05	CAST IRON SANITARY PIPES	12MAR88	22MAR88	16MAR88	27MAR88	4	
323H185A26	10	10	0	06	CAST IRON SANITARY PIPES	15MAR88	26MAR88	21MAR88	2APR88	5	
323H186A26	10	10	0	07	CAST IRON SANITARY PIPES	20MAR88	31MAR88	26MAR88	6APR88	5	

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 9

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
323H187A26	10	10	0	08	CAST IRON SANITARY PIPES	23MAR88	4APR88	31MAR88	21APR88	6
214H030A26	10	10	0	09	CAST IRON SANITARY PIPES	27MAR88	7APR88	5APR88	16APR88	7
214H029A26	10	10	0	10	CAST IRON SANITARY PIPES	2APR88	12APR88	10APR88	20APR88	7
214H028A26	10	10	0	11	CAST IRON SANITARY PIPES	5APR88	16APR88	14APR88	25APR88	8
214H031A26	10	10	0	12	CAST IRON SANITARY PIPES	9APR88	19APR88	19APR88	30APR88	9
216H020A26	10	10	0	13	CAST IRON SANITARY PIPES	13APR88	24APR88	24APR88	4MAY88	9
216H019A26	10	10	0	14	CAST IRON SANITARY PIPES	17APR88	27APR88	28APR88	9MAY88	10
216H018A26	10	10	0	15	CAST IRON SANITARY PIPES	20APR88	1MAY88	3MAY88	14MAY88	11
218H015A26	10	10	0	16	CAST IRON SANITARY PIPES	25APR88	5MAY88	8MAY88	18MAY88	11
218H014A26	10	10	0	17	CAST IRON SANITARY PIPES	28APR88	9MAY88	12MAY88	23MAY88	12
218H013A26	10	10	0	18	CAST IRON SANITARY PIPES	2MAY88	12MAY88	17MAY88	28MAY88	13
322H188A26	10	10	0	19	CAST IRON SANITARY PIPES	7MAY88	17MAY88	22MAY88	2JUN88	13
322H189A26	10	10	0	20	CAST IRON SANITARY PIPES	10MAY88	21MAY88	26MAY88	7JUN88	14
322H190A26	10	10	0	21	CAST IRON SANITARY PIPES	14MAY88	24MAY88	1JUN88	12JUN88	15
216H021A26	10	10	0	22	CAST IRON SANITARY PIPES	18MAY88	29MAY88	6JUN88	16JUN88	15
219H010A26	10	10	0	23	CAST IRON SANITARY PIPES	22MAY88	2JUN88	11JUN88	21JUN88	16
220H007A26	10	10	0	24	CAST IRON SANITARY PIPES	25MAY88	6JUN88	15JUN88	26JUN88	17
213H035A26	10	10	0	25	CAST IRON SANITARY PIPES	31MAY88	11JUN88	20JUN88	30JUN88	17
213H036A26	10	10	0	26	CAST IRON SANITARY PIPES	4JUN88	14JUN88	25JUN88	5JUL88	18
213H037A26	10	10	0	27	CAST IRON SANITARY PIPES	7JUN88	18JUN88	29JUN88	10JUL88	19
213H032A26	10	10	0	28	CAST IRON SANITARY PIPES	12JUN88	22JUN88	4JUL88	14JUL88	19
213H033A26	10	10	0	29	CAST IRON SANITARY PIPES	15JUN88	26JUN88	9JUL88	19JUL88	20
213H034A26	10	10	0	30	CAST IRON SANITARY PIPES	19JUN88	29JUN88	13JUL88	24JUL88	21
219H011A26	10	10	0	31	CAST IRON SANITARY PIPES	23JUN88	4JUL88	18JUL88	28JUL88	21
219H012A26	10	10	0	32	CAST IRON SANITARY PIPES	27JUN88	7JUL88	23JUL88	2AUG88	22
217H017A26	10	10	0	33	CAST IRON SANITARY PIPES	30JUN88	11JUL88	27JUL88	8AUG88	23
217H016A26	10	10	0	34	CAST IRON SANITARY PIPES	5JUL88	16JUL88	1AUG88	13AUG88	23
221H003A26	10	10	0	35	CAST IRON SANITARY PIPES	9JUL88	19JUL88	7AUG88	17AUG88	24
221H002A26	10	10	0	36	CAST IRON SANITARY PIPES	12JUL88	23JUL88	11AUG88	22AUG88	25
221H001A26	10	10	0	37	CAST IRON SANITARY PIPES	17JUL88	27JUL88	16AUG88	28AUG88	25
220H009A26	10	10	0	38	CAST IRON SANITARY PIPES	20JUL88	31JUL88	21AUG88	1SEP88	26
220H008A26	10	10	0	39	CAST IRON SANITARY PIPES	24JUL88	3AUG88	24AUG88	5SEP88	26
220H006A26	10	10	0	40	CAST IRON SANITARY PIPES	28JUL88	9AUG88	30AUG88	10SEP88	26
220H005A26	10	10	0	41	CAST IRON SANITARY PIPES	1AUG88	13AUG88	3SEP88	13SEP88	26
220H004A26	10	10	0	42	CAST IRON SANITARY PIPES	6AUG88	18AUG88	6SEP88	17SEP88	26
320H176A26	10	10	0	43	CAST IRON SANITARY PIPES	10AUG88	21AUG88	11SEP88	21SEP88	26
320H177A26	10	10	0	44	CAST IRON SANITARY PIPES	14AUG88	24AUG88	14SEP88	25SEP88	26
320H178A26	10	10	0	45	CAST IRON SANITARY PIPES	17AUG88	29AUG88	18SEP88	28SEP88	26
215H027A26	10	10	0	46	CAST IRON SANITARY PIPES	22AUG88	3SEP88	23SEP88	3OCT88	26
215H026A26	10	10	0	47	CAST IRON SANITARY PIPES	27AUG88	6SEP88	26SEP88	6OCT88	26
215H025A26	10	10	0	48	CAST IRON SANITARY PIPES	30AUG88	10SEP88	29SEP88	10OCT88	26
215H024A26	10	10	0	49	CAST IRON SANITARY PIPES	4SEP88	14SEP88	4OCT88	15OCT88	26
215H023A26	10	10	0	50	CAST IRON SANITARY PIPES	7SEP88	18SEP88	8OCT88	18OCT88	26
215H022A26	10	10	0	51	CAST IRON SANITARY PIPES	11SEP88	21SEP88	11OCT88	22OCT88	26
211H043A27	13	13	0	01	PLASTERING PREPARATION	5MAR88	19MAR88	8MAR88	22MAR88	3
211H042A27	13	13	0	02	PLASTERING PREPARATION	8MAR88	22MAR88	13MAR88	27MAR88	4
321H174A27	13	13	0	03	PLASTERING PREPARATION	13MAR88	27MAR88	17MAR88	2APR88	4
321H175A27	13	13	0	04	PLASTERING PREPARATION	16MAR88	31MAR88	22MAR88	6APR88	5
211H044A27	13	13	0	05	PLASTERING PREPARATION	21MAR88	5APR88	27MAR88	11APR88	5
323H185A27	13	13	0	06	PLASTERING PREPARATION	24MAR88	9APR88	2APR88	16APR88	6
323H186A27	13	13	0	07	PLASTERING PREPARATION	30MAR88	13APR88	6APR88	20APR88	6
323H187A27	13	13	0	08	PLASTERING PREPARATION	3APR88	17APR88	11APR88	25APR88	7
214H030A27	13	13	0	09	PLASTERING PREPARATION	7APR88	21APR88	16APR88	30APR88	7
214H029A27	13	13	0	10	PLASTERING PREPARATION	11APR88	25APR88	20APR88	4MAY88	8
214H028A27	13	13	0	11	PLASTERING PREPARATION	16APR88	30APR88	25APR88	9MAY88	8
214H031A27	13	13	0	12	PLASTERING PREPARATION	19APR88	3MAY88	30APR88	14MAY88	9
216H020A27	13	13	0	13	PLASTERING PREPARATION	24APR88	8MAY88	4MAY88	18MAY88	9
216H019A27	13	13	0	14	PLASTERING PREPARATION	27APR88	11MAY88	9MAY88	23MAY88	10
216H018A27	13	13	0	15	PLASTERING PREPARATION	2MAY88	16MAY88	14MAY88	28MAY88	10
218H015A27	13	13	0	16	PLASTERING PREPARATION	5MAY88	19MAY88	18MAY88	2JUN88	11
218H014A27	13	13	0	17	PLASTERING PREPARATION	10MAY88	24MAY88	23MAY88	7JUN88	11
218H013A27	13	13	0	18	PLASTERING PREPARATION	14MAY88	28MAY88	28MAY88	12JUN88	12
322H188A27	13	13	0	19	PLASTERING PREPARATION	18MAY88	2JUN88	2JUN88	16JUN88	12
322H189A27	13	13	0	20	PLASTERING PREPARATION	22MAY88	6JUN88	7JUN88	21JUN88	13
322H190A27	13	13	0	21	PLASTERING PREPARATION	26MAY88	11JUN88	12JUN88	26JUN88	13
216H021A27	13	13	0	22	PLASTERING PREPARATION	31MAY88	14JUN88	16JUN88	30JUN88	14
219H010A27	13	13	0	23	PLASTERING PREPARATION	5JUN88	19JUN88	21JUN88	5JUL88	14
220H007A27	13	13	0	24	PLASTERING PREPARATION	8JUN88	22JUN88	26JUN88	10JUL88	15
213H035A27	13	13	0	25	PLASTERING PREPARATION	13JUN88	27JUN88	30JUN88	14JUL88	15
213H036A27	13	13	0	26	PLASTERING PREPARATION	16JUN88	30JUN88	5JUL88	19JUL88	16
213H037A27	13	13	0	27	PLASTERING PREPARATION	21JUN88	5JUL88	10JUL88	24JUL88	16
213H032A27	13	13	0	28	PLASTERING PREPARATION	25JUN88	9JUL88	14JUL88	28JUL88	17
213H033A27	13	13	0	29	PLASTERING PREPARATION	29JUN88	13JUL88	19JUL88	2AUG88	17
213H034A27	13	13	0	30	PLASTERING PREPARATION	3JUL88	17JUL88	24JUL88	8AUG88	18
219H011A27	13	13	0	31	PLASTERING PREPARATION	7JUL88	21JUL88	28JUL88	13AUG88	18
219H012A27	13	13	0	32	PLASTERING PREPARATION	11JUL88	25JUL88	2AUG88	17AUG88	19
217H017A27	13	13	0	33	PLASTERING PREPARATION	16JUL88	30JUL88	8AUG88	22AUG88	19
217H016A27	13	13	0	34	PLASTERING PREPARATION	19JUL88	2AUG88	13AUG88	28AUG88	20
221H003A27	13	13	0	35	PLASTERING PREPARATION	24JUL88	8AUG88	17AUG88	1SEP88	20
221H002A27	13	13	0	36	PLASTERING PREPARATION	27JUL88	11AUG88	22AUG88	6SEP88	21
221H001A27	13	13	0	37	PLASTERING PREPARATION	1AUG88	16AUG88	28AUG88	11SEP88	21
220H009A27	13	13	0	38	PLASTERING PREPARATION	6AUG88	20AUG88	1SEP88	15SEP88	22
220H008A27	13	13	0	39	PLASTERING PREPARATION	10AUG88	24AUG88	6SEP88	20SEP88	22
220H006A27	13	13	0	40	PLASTERING PREPARATION	14AUG88	29AUG88	11SEP88	25SEP88	23
220H005A27	13	13	0	41	PLASTERING PREPARATION	18AUG88	3SEP88	15SEP88	29SEP88	23
220H004A27	13	13	0	42	PLASTERING PREPARATION	22AUG88	6SEP88	20SEP88	4OCT88	24
320H176A27	13	13	0	43	PLASTERING PREPARATION	28AUG88	11SEP88	24SEP88	8OCT88	24
320H177A27	13	13	0	44	PLASTERING PREPARATION	31AUG88	14SEP88	28SEP88	12OCT88	24
320H178A27	13	13	0	45	PLASTERING PREPARATION	5SEP88	19SEP88	2OCT88	16OCT88	23
215H027A27	13	13	0	46	PLASTERING PREPARATION	8SEP88	22SEP88	5OCT88	19OCT88	23
215H026A27	13	13	0	47	PLASTERING PREPARATION	13SEP88	27SEP88	9OCT88	23OCT88	22
215H025A27	13	13	0	48	PLASTERING PREPARATION	17SEP88	1OCT88	13OCT88	27OCT88	23
215H024A27	13	13	0	49	PLASTERING PREPARATION	21SEP88	5OCT88	17OCT88	31OCT88	22
215H023A27	13	13	0	50	PLASTERING PREPARATION	25SEP88	9OCT88	20OCT88	3NOV88	22
215H022A27	13	13	0	51	PLASTERING PREPARATION	29SEP88	13OCT88	24OCT88	7NOV88	21
211H043A28	10	10	0	01	GALVANIZED WATER SUPPLY PIPES	8MAR88	19MAR88	9MAR88	20MAR88	1

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
211H042A28	10	10	0	02	GALVANIZED WATER SUPPLY PIPES	12MAR88	22MAR88	14MAR88	24MAR88	2
211H174A28	10	10	0	03	GALVANIZED WATER SUPPLY PIPES	15MAR88	26MAR88	19MAR88	30MAR88	3
211H175A28	10	10	0	04	GALVANIZED WATER SUPPLY PIPES	20MAR88	31MAR88	23MAR88	4APR88	3
211H044A28	10	10	0	05	GALVANIZED WATER SUPPLY PIPES	23MAR88	4APR88	29MAR88	9APR88	4
223H185A28	10	10	0	06	GALVANIZED WATER SUPPLY PIPES	27MAR88	7APR88	3APR88	13APR88	5
223H186A28	10	10	0	07	GALVANIZED WATER SUPPLY PIPES	2APR88	12APR88	7APR88	18APR88	5
223H187A28	10	10	0	08	GALVANIZED WATER SUPPLY PIPES	5APR88	16APR88	12APR88	23APR88	6
214H030A28	10	10	0	09	GALVANIZED WATER SUPPLY PIPES	9APR88	19APR88	17APR88	27APR88	7
214H029A28	10	10	0	10	GALVANIZED WATER SUPPLY PIPES	13APR88	24APR88	21APR88	2MAY88	7
214H028A28	10	10	0	11	GALVANIZED WATER SUPPLY PIPES	17APR88	27APR88	26APR88	7MAY88	8
214H031A28	10	10	0	12	GALVANIZED WATER SUPPLY PIPES	20APR88	1MAY88	1MAY88	11MAY88	9
216H020A28	10	10	0	13	GALVANIZED WATER SUPPLY PIPES	25APR88	5MAY88	5MAY88	16MAY88	9
216H019A28	10	10	0	14	GALVANIZED WATER SUPPLY PIPES	28APR88	9MAY88	10MAY88	21MAY88	10
216H018A28	10	10	0	15	GALVANIZED WATER SUPPLY PIPES	2MAY88	12MAY88	15MAY88	25MAY88	11
218H015A28	10	10	0	16	GALVANIZED WATER SUPPLY PIPES	7MAY88	17MAY88	19MAY88	31MAY88	11
218H014A28	10	10	0	17	GALVANIZED WATER SUPPLY PIPES	10MAY88	21MAY88	24MAY88	5JUN88	12
218H013A28	10	10	0	18	GALVANIZED WATER SUPPLY PIPES	14MAY88	24MAY88	29MAY88	9JUN88	13
222H188A28	10	10	0	19	GALVANIZED WATER SUPPLY PIPES	18MAY88	29MAY88	4JUN88	14JUN88	13
222H189A28	10	10	0	20	GALVANIZED WATER SUPPLY PIPES	22MAY88	2JUN88	8JUN88	19JUN88	14
222H190A28	10	10	0	21	GALVANIZED WATER SUPPLY PIPES	25MAY88	6JUN88	13JUN88	23JUN88	15
216H021A28	10	10	0	22	GALVANIZED WATER SUPPLY PIPES	31MAY88	11JUN88	18JUN88	28JUN88	15
219H010A28	10	10	0	23	GALVANIZED WATER SUPPLY PIPES	4JUN88	14JUN88	22JUN88	3JUL88	16
220H007A28	10	10	0	24	GALVANIZED WATER SUPPLY PIPES	7JUN88	18JUN88	27JUN88	7JUL88	17
213H035A28	10	10	0	25	GALVANIZED WATER SUPPLY PIPES	12JUN88	23JUN88	20JUL88	12JUL88	17
213H036A28	10	10	0	26	GALVANIZED WATER SUPPLY PIPES	15JUN88	25JUN88	6JUL88	17JUL88	18
213H037A28	10	10	0	27	GALVANIZED WATER SUPPLY PIPES	19JUN88	29JUN88	11JUL88	21JUL88	19
213H032A28	10	10	0	28	GALVANIZED WATER SUPPLY PIPES	23JUN88	4JUL88	16JUL88	26JUL88	19
213H033A28	10	10	0	29	GALVANIZED WATER SUPPLY PIPES	27JUN88	7JUL88	20JUL88	31JUL88	20
213H034A28	10	10	0	30	GALVANIZED WATER SUPPLY PIPES	30JUN88	11JUL88	25JUL88	6AUG88	21
219H011A28	10	10	0	31	GALVANIZED WATER SUPPLY PIPES	5JUL88	16JUL88	30JUL88	10AUG88	21
219H012A28	10	10	0	32	GALVANIZED WATER SUPPLY PIPES	9JUL88	19JUL88	3AUG88	15AUG88	22
217H017A28	10	10	0	33	GALVANIZED WATER SUPPLY PIPES	12JUL88	23JUL88	9AUG88	20AUG88	23
217H016A28	10	10	0	34	GALVANIZED WATER SUPPLY PIPES	17JUL88	27JUL88	14AUG88	24AUG88	23
218H003A28	10	10	0	35	GALVANIZED WATER SUPPLY PIPES	20JUL88	31JUL88	18AUG88	30AUG88	24
221H002A28	10	10	0	36	GALVANIZED WATER SUPPLY PIPES	24JUL88	3AUG88	23AUG88	4SEP88	25
218H001A28	10	10	0	37	GALVANIZED WATER SUPPLY PIPES	28JUL88	9AUG88	29AUG88	8SEP88	25
220H009A28	10	10	0	38	GALVANIZED WATER SUPPLY PIPES	1AUG88	13AUG88	3SEP88	13SEP88	26
220H008A28	10	10	0	39	GALVANIZED WATER SUPPLY PIPES	6AUG88	16AUG88	6SEP88	17SEP88	26
220H006A28	10	10	0	40	GALVANIZED WATER SUPPLY PIPES	10AUG88	21AUG88	11SEP88	21SEP88	26
220H005A28	10	10	0	41	GALVANIZED WATER SUPPLY PIPES	14AUG88	24AUG88	14SEP88	25SEP88	26
220H004A28	10	10	0	42	GALVANIZED WATER SUPPLY PIPES	17AUG88	29AUG88	18SEP88	28SEP88	26
320H176A28	10	10	0	43	GALVANIZED WATER SUPPLY PIPES	22AUG88	3SEP88	22SEP88	3OCT88	26
320H177A28	10	10	0	44	GALVANIZED WATER SUPPLY PIPES	27AUG88	6SEP88	26SEP88	6OCT88	26
320H178A28	10	10	0	45	GALVANIZED WATER SUPPLY PIPES	30AUG88	10SEP88	29SEP88	10OCT88	26
215H027A28	10	10	0	46	GALVANIZED WATER SUPPLY PIPES	4SEP88	14SEP88	4OCT88	15OCT88	26
215H026A28	10	10	0	47	GALVANIZED WATER SUPPLY PIPES	7SEP88	18SEP88	8OCT88	18OCT88	26
215H025A28	10	10	0	48	GALVANIZED WATER SUPPLY PIPES	11SEP88	21SEP88	11OCT88	22OCT88	26
215H024A28	10	10	0	49	GALVANIZED WATER SUPPLY PIPES	15SEP88	26SEP88	16OCT88	26OCT88	26
215H023A28	10	10	0	50	GALVANIZED WATER SUPPLY PIPES	19SEP88	29SEP88	19OCT88	30OCT88	26
215H022A28	10	10	0	51	GALVANIZED WATER SUPPLY PIPES	22SEP88	3OCT88	23OCT88	2NOV88	26
211H043A29	6	6	0	01	MARBLE FRAMES	10MAR88	16MAR88	16MAR88	22MAR88	5
211H042A29	6	6	0	02	MARBLE FRAMES	14MAR88	20MAR88	21MAR88	27MAR88	6
321H174A29	6	6	0	03	MARBLE FRAMES	19MAR88	24MAR88	26MAR88	2APR88	6
321H175A29	6	6	0	04	MARBLE FRAMES	22MAR88	29MAR88	31MAR88	6APR88	7
211H044A29	6	6	0	05	MARBLE FRAMES	27MAR88	3APR88	5APR88	11APR88	7
323H185A29	6	6	0	06	MARBLE FRAMES	31MAR88	6APR88	10APR88	16APR88	8
323H186A29	6	6	0	07	MARBLE FRAMES	5APR88	11APR88	14APR88	20APR88	8
323H187A29	6	6	0	08	MARBLE FRAMES	9APR88	14APR88	19APR88	25APR88	9
214H030A29	6	6	0	09	MARBLE FRAMES	13APR88	19APR88	24APR88	30APR88	9
214H029A29	6	6	0	10	MARBLE FRAMES	17APR88	23APR88	28APR88	4MAY88	10
214H028A29	6	6	0	11	MARBLE FRAMES	21APR88	27APR88	3MAY88	9MAY88	10
216H020A29	6	6	0	12	MARBLE FRAMES	25APR88	1MAY88	8MAY88	14MAY88	11
216H019A29	6	6	0	13	MARBLE FRAMES	30APR88	5MAY88	12MAY88	18MAY88	11
216H018A29	6	6	0	14	MARBLE FRAMES	3MAY88	9MAY88	17MAY88	23MAY88	12
218H015A29	6	6	0	15	MARBLE FRAMES	8MAY88	14MAY88	22MAY88	28MAY88	12
218H014A29	6	6	0	16	MARBLE FRAMES	11MAY88	17MAY88	26MAY88	31JUN88	13
218H013A29	6	6	0	17	MARBLE FRAMES	16MAY88	22MAY88	1JUN88	7JUN88	13
322H188A29	6	6	0	18	MARBLE FRAMES	19MAY88	25MAY88	6JUN88	12JUN88	14
322H189A29	6	6	0	19	MARBLE FRAMES	24MAY88	31MAY88	11JUN88	16JUN88	14
322H190A29	6	6	0	20	MARBLE FRAMES	28MAY88	4JUN88	15JUN88	21JUN88	15
216H021A29	6	6	0	21	MARBLE FRAMES	2JUN88	8JUN88	20JUN88	26JUN88	15
219H010A29	6	6	0	22	MARBLE FRAMES	6JUN88	12JUN88	25JUN88	30JUN88	16
220H007A29	6	6	0	23	MARBLE FRAMES	11JUN88	16JUN88	29JUN88	5JUL88	16
213H035A29	6	6	0	24	MARBLE FRAMES	14JUN88	20JUN88	4JUL88	10JUL88	17
213H036A29	6	6	0	25	MARBLE FRAMES	19JUN88	25JUN88	9JUL88	14JUL88	17
213H037A29	6	6	0	26	MARBLE FRAMES	22JUN88	28JUN88	13JUL88	19JUL88	18
213H032A29	6	6	0	27	MARBLE FRAMES	27JUN88	3JUL88	18JUL88	24JUL88	18
213H033A29	6	6	0	28	MARBLE FRAMES	30JUN88	6JUL88	23JUL88	28JUL88	19
213H034A29	6	6	0	29	MARBLE FRAMES	5JUL88	11JUL88	27JUL88	2AUG88	19
219H011A29	6	6	0	30	MARBLE FRAMES	9JUL88	14JUL88	1AUG88	8AUG88	20
219H012A29	6	6	0	31	MARBLE FRAMES	13JUL88	19JUL88	7AUG88	13AUG88	20
217H017A29	6	6	0	32	MARBLE FRAMES	17JUL88	23JUL88	11AUG88	17AUG88	21
217H016A29	6	6	0	33	MARBLE FRAMES	21JUL88	27JUL88	16AUG88	22AUG88	21
221H003A29	6	6	0	34	MARBLE FRAMES	25JUL88	31JUL88	21AUG88	28AUG88	22
221H002A29	6	6	0	35	MARBLE FRAMES	30JUL88	6AUG88	27AUG88	1SEP88	22
221H001A29	6	6	0	36	MARBLE FRAMES	2AUG88	9AUG88	31AUG88	6SEP88	23
220H009A29	6	6	0	37	MARBLE FRAMES	8AUG88	14AUG88	5SEP88	11SEP88	23
220H008A29	6	6	0	38	MARBLE FRAMES	11AUG88	17AUG88	10SEP88	15SEP88	24
220H006A29	6	6	0	39	MARBLE FRAMES	16AUG88	22AUG88	14SEP88	20SEP88	24
220H005A29	6	6	0	40	MARBLE FRAMES	20AUG88	27AUG88	19SEP88	25SEP88	25
220H004A29	6	6	0	41	MARBLE FRAMES	24AUG88	31AUG88	24SEP88	29SEP88	25
320H176A29	6	6	0	42	MARBLE FRAMES	29AUG88	4SEP88	28SEP88	4OCT88	26
320H177A29	6	6	0	43	MARBLE FRAMES	3SEP88	8SEP88	2OCT88	8OCT88	25
320H178A29	6	6	0	44	MARBLE FRAMES	6SEP88	12SEP88	6OCT88	12OCT88	26
215H027A29	6	6	0	45	MARBLE FRAMES	11SEP88	17SEP88	10OCT88	16OCT88	25
215H026A29	6	6	0	46	MARBLE FRAMES	14SEP88	20SEP88	13OCT88	19OCT88	25

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM AL-ABDULRAZZAK EST.				PRIMAVERA PROJECT PLANNER				Correcting Out-of-Logic Progress NSQ			
REPORT DATE 21SEP95 RUN NO. 205				SEVEN SEAS, CONSTRUCTION OF 51 HOUSES				START DATE 1APR87 FIN DATE 30MAR89*			
19:31											
Revd & Decel Schl by Typical Activity & ES								DATA DATE 1FEB88 PAGE NO. 11			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT	
215H026A29	6	6	0	47	MARBLE FRAMES	19SEP88	25SEP88	17OCT88	23OCT88	24	
215H025A29	6	6	0	48	MARBLE FRAMES	22SEP88	28SEP88	22OCT88	27OCT88	25	
215H024A29	6	6	0	49	MARBLE FRAMES	27SEP88	3OCT88	25OCT88	31OCT88	24	
215H023A29	6	6	0	50	MARBLE FRAMES	1OCT88	6OCT88	29OCT88	3NOV88	24	
215H022A29	6	6	0	51	MARBLE FRAMES	5OCT88	11OCT88	1NOV88	7NOV88	23	
211H043A30	4	4	0	01	WOODEN FRAMES	12MAR88	15MAR88	19MAR88	22MAR88	6	
211H042A30	4	4	0	02	WOODEN FRAMES	15MAR88	19MAR88	23MAR88	27MAR88	7	
211H174A30	4	4	0	03	WOODEN FRAMES	20MAR88	23MAR88	29MAR88	2APR88	7	
211H175A30	4	4	0	04	WOODEN FRAMES	23MAR88	27MAR88	3APR88	6APR88	8	
211H044A30	4	4	0	05	WOODEN FRAMES	29MAR88	2APR88	7APR88	11APR88	8	
223H185A30	4	4	0	06	WOODEN FRAMES	2APR88	5APR88	12APR88	16APR88	9	
223H186A30	4	4	0	07	WOODEN FRAMES	6APR88	10APR88	17APR88	20APR88	9	
223H187A30	4	4	0	08	WOODEN FRAMES	10APR88	13APR88	21APR88	25APR88	10	
214H029A30	4	4	0	09	WOODEN FRAMES	14APR88	18APR88	26APR88	30APR88	10	
214H028A30	4	4	0	10	WOODEN FRAMES	18APR88	21APR88	1MAY88	4MAY88	11	
214H027A30	4	4	0	11	WOODEN FRAMES	23APR88	26APR88	5MAY88	9MAY88	11	
214H031A30	4	4	0	12	WOODEN FRAMES	26APR88	30APR88	10MAY88	14MAY88	12	
216H020A30	4	4	0	13	WOODEN FRAMES	1MAY88	4MAY88	15MAY88	18MAY88	12	
216H019A30	4	4	0	14	WOODEN FRAMES	4MAY88	8MAY88	19MAY88	23MAY88	13	
216H018A30	4	4	0	15	WOODEN FRAMES	9MAY88	12MAY88	24MAY88	28MAY88	13	
218H015A30	4	4	0	16	WOODEN FRAMES	12MAY88	16MAY88	29MAY88	2JUN88	14	
218H014A30	4	4	0	17	WOODEN FRAMES	17MAY88	21MAY88	4JUN88	7JUN88	14	
218H013A30	4	4	0	18	WOODEN FRAMES	21MAY88	24MAY88	8JUN88	12JUN88	15	
222H188A30	4	4	0	19	WOODEN FRAMES	25MAY88	29MAY88	13JUN88	16JUN88	15	
222H189A30	4	4	0	20	WOODEN FRAMES	29MAY88	2JUN88	18JUN88	21JUN88	16	
222H190A30	4	4	0	21	WOODEN FRAMES	4JUN88	7JUN88	22JUN88	26JUN88	16	
216H021A30	4	4	0	22	WOODEN FRAMES	7JUN88	11JUN88	27JUN88	30JUN88	17	
219H010A30	4	4	0	23	WOODEN FRAMES	12JUN88	15JUN88	2JUL88	5JUL88	17	
220H007A30	4	4	0	24	WOODEN FRAMES	15JUN88	19JUN88	6JUL88	10JUL88	18	
213H035A30	4	4	0	25	WOODEN FRAMES	20JUN88	23JUN88	11JUL88	14JUL88	18	
213H036A30	4	4	0	26	WOODEN FRAMES	23JUN88	27JUN88	16JUL88	19JUL88	19	
213H037A30	4	4	0	27	WOODEN FRAMES	28JUN88	2JUL88	20JUL88	24JUL88	19	
213H032A30	4	4	0	28	WOODEN FRAMES	2JUL88	5JUL88	25JUL88	28JUL88	20	
213H033A30	4	4	0	29	WOODEN FRAMES	6JUL88	10JUL88	30JUL88	2AUG88	20	
213H034A30	4	4	0	30	WOODEN FRAMES	10JUL88	13JUL88	3AUG88	6AUG88	21	
219H011A30	4	4	0	31	WOODEN FRAMES	14JUL88	18JUL88	9AUG88	13AUG88	21	
219H012A30	4	4	0	32	WOODEN FRAMES	18JUL88	21JUL88	14AUG88	17AUG88	22	
217H017A30	4	4	0	33	WOODEN FRAMES	23JUL88	26JUL88	18AUG88	22AUG88	22	
217H016A30	4	4	0	34	WOODEN FRAMES	26JUL88	30JUL88	23AUG88	28AUG88	23	
221H003A30	4	4	0	35	WOODEN FRAMES	31JUL88	3AUG88	29AUG88	1SEP88	23	
221H002A30	4	4	0	36	WOODEN FRAMES	3AUG88	8AUG88	3SEP88	6SEP88	24	
221H001A30	4	4	0	37	WOODEN FRAMES	9AUG88	13AUG88	7SEP88	11SEP88	24	
220H009A30	4	4	0	38	WOODEN FRAMES	13AUG88	16AUG88	12SEP88	15SEP88	25	
220H008A30	4	4	0	39	WOODEN FRAMES	17AUG88	21AUG88	17SEP88	20SEP88	25	
220H006A30	4	4	0	40	WOODEN FRAMES	21AUG88	24AUG88	21SEP88	25SEP88	26	
220H005A30	4	4	0	41	WOODEN FRAMES	27AUG88	30AUG88	26SEP88	29SEP88	26	
220H004A30	4	4	0	42	WOODEN FRAMES	30AUG88	3SEP88	1OCT88	4OCT88	27	
220H176A30	4	4	0	43	WOODEN FRAMES	4SEP88	7SEP88	4OCT88	8OCT88	26	
220H177A30	4	4	0	44	WOODEN FRAMES	7SEP88	11SEP88	9OCT88	12OCT88	27	
220H178A30	4	4	0	45	WOODEN FRAMES	12SEP88	15SEP88	12OCT88	16OCT88	26	
215H027A30	4	4	0	46	WOODEN FRAMES	15SEP88	18SEP88	16OCT88	19OCT88	26	
215H026A30	4	4	0	47	WOODEN FRAMES	20SEP88	24SEP88	19OCT88	23OCT88	25	
215H025A30	4	4	0	48	WOODEN FRAMES	24SEP88	27SEP88	24OCT88	27OCT88	26	
215H024A30	4	4	0	49	WOODEN FRAMES	28SEP88	2OCT88	27OCT88	31OCT88	25	
215H023A30	4	4	0	50	WOODEN FRAMES	2OCT88	5OCT88	31OCT88	3NOV88	25	
215H022A30	4	4	0	51	WOODEN FRAMES	6OCT88	10OCT88	3NOV88	7NOV88	24	
211H043A31	6	6	0	01	BLOCK WORKS OF CHASES	20MAR88	26MAR88	21MAR88	27MAR88	1	
211H042A31	6	6	0	02	BLOCK WORKS OF CHASES	23MAR88	30MAR88	26MAR88	2APR88	2	
211H174A31	6	6	0	03	BLOCK WORKS OF CHASES	27MAR88	3APR88	31MAR88	6APR88	3	
211H175A31	6	6	0	04	BLOCK WORKS OF CHASES	2APR88	7APR88	5APR88	11APR88	3	
211H044A31	6	6	0	05	BLOCK WORKS OF CHASES	5APR88	11APR88	10APR88	16APR88	4	
223H185A31	6	6	0	06	BLOCK WORKS OF CHASES	9APR88	14APR88	14APR88	20APR88	5	
223H186A31	6	6	0	07	BLOCK WORKS OF CHASES	13APR88	19APR88	19APR88	25APR88	5	
223H187A31	6	6	0	08	BLOCK WORKS OF CHASES	17APR88	23APR88	24APR88	30APR88	6	
214H030A31	6	6	0	09	BLOCK WORKS OF CHASES	20APR88	26APR88	28APR88	4MAY88	7	
214H029A31	6	6	0	10	BLOCK WORKS OF CHASES	25APR88	1MAY88	3MAY88	9MAY88	7	
214H028A31	6	6	0	11	BLOCK WORKS OF CHASES	28APR88	4MAY88	8MAY88	14MAY88	8	
214H031A31	6	6	0	12	BLOCK WORKS OF CHASES	2MAY88	8MAY88	12MAY88	18MAY88	9	
216H020A31	6	6	0	13	BLOCK WORKS OF CHASES	7MAY88	12MAY88	17MAY88	23MAY88	9	
216H019A31	6	6	0	14	BLOCK WORKS OF CHASES	10MAY88	16MAY88	22MAY88	28MAY88	10	
216H018A31	6	6	0	15	BLOCK WORKS OF CHASES	14MAY88	19MAY88	26MAY88	2JUN88	11	
218H015A31	6	6	0	16	BLOCK WORKS OF CHASES	18MAY88	24MAY88	1JUN88	7JUN88	11	
218H014A31	6	6	0	17	BLOCK WORKS OF CHASES	22MAY88	28MAY88	6JUN88	12JUN88	12	
218H013A31	6	6	0	18	BLOCK WORKS OF CHASES	25MAY88	1JUN88	11JUN88	16JUN88	13	
222H188A31	6	6	0	19	BLOCK WORKS OF CHASES	31MAY88	6JUN88	15JUN88	21JUN88	13	
222H189A31	6	6	0	20	BLOCK WORKS OF CHASES	4JUN88	9JUN88	20JUN88	26JUN88	14	
222H190A31	6	6	0	21	BLOCK WORKS OF CHASES	7JUN88	13JUN88	25JUN88	30JUN88	15	
216H021A31	6	6	0	22	BLOCK WORKS OF CHASES	12JUN88	18JUN88	29JUN88	5JUL88	15	
219H010A31	6	6	0	23	BLOCK WORKS OF CHASES	15JUN88	21JUN88	4JUL88	10JUL88	16	
220H007A31	6	6	0	24	BLOCK WORKS OF CHASES	19JUN88	25JUN88	9JUL88	14JUL88	17	
213H035A31	6	6	0	25	BLOCK WORKS OF CHASES	23JUN88	29JUN88	13JUL88	19JUL88	17	
213H036A31	6	6	0	26	BLOCK WORKS OF CHASES	27JUN88	3JUL88	18JUL88	24JUL88	18	
213H037A31	6	6	0	27	BLOCK WORKS OF CHASES	30JUN88	6JUL88	23JUL88	28JUL88	19	
213H032A31	6	6	0	28	BLOCK WORKS OF CHASES	5JUL88	11JUL88	27JUL88	2AUG88	19	
213H033A31	6	6	0	29	BLOCK WORKS OF CHASES	9JUL88	14JUL88	1AUG88	6AUG88	20	
213H034A31	6	6	0	30	BLOCK WORKS OF CHASES	12JUL88	18JUL88	7AUG88	13AUG88	21	
219H011A31	6	6	0	31	BLOCK WORKS OF CHASES	17JUL88	23JUL88	11AUG88	17AUG88	21	
219H012A31	6	6	0	32	BLOCK WORKS OF CHASES	20JUL88	26JUL88	16AUG88	22AUG88	22	
217H017A31	6	6	0	33	BLOCK WORKS OF CHASES	24JUL88	30JUL88	21AUG88	28AUG88	23	
217H016A31	6	6	0	34	BLOCK WORKS OF CHASES	28JUL88	3AUG88	27AUG88	1SEP88	23	
221H003A31	6	6	0	35	BLOCK WORKS OF CHASES	1AUG88	8AUG88	31AUG88	6SEP88	24	
221H002A31	6	6	0	36	BLOCK WORKS OF CHASES	6AUG88	11AUG88	5SEP88	11SEP88	25	
221H001A31	6	6	0	37	BLOCK WORKS OF CHASES	10AUG88	16AUG88	10SEP88	15SEP88	25	
220H009A31	6	6	0	38	BLOCK WORKS OF CHASES	14AUG88	20AUG88	14SEP88	20SEP88	26	
220H008A31	6	6	0	39	BLOCK WORKS OF CHASES	17AUG88	23AUG88	18SEP88	24SEP88	26	
220H006A31	6	6	0	40	BLOCK WORKS OF CHASES	22AUG88	29AUG88	22SEP88	28SEP88	26	

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST
PRIMAVERA PROJECT PLANNER
Correcting Out-of-Logic Progress NSq

REPORT DATE 21SEP95 RUN NO. 205 SEVEN SEAS, CONSTRUCTION OF 51 HOUSES
18:31
START DATE 1APR87 FIN DATE 30MAR89*

Revd & Decel Schl by Typical Activity & ES
DATA DATE 1FEB88 PAGE NO. 12

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
220H005A31	6	6	0	41	BLOCK WORKS OF CHASES	27AUG88	1SEP88	26SEP88	20CT88	26
220H004A31	6	6	0	42	BLOCK WORKS OF CHASES	30AUG88	5SEP88	1OCT88	6OCT88	27
320H176A31	6	6	0	43	BLOCK WORKS OF CHASES	4SEP88	10SEP88	4OCT88	10OCT88	26
320H177A31	6	6	0	44	BLOCK WORKS OF CHASES	7SEP88	13SEP88	9OCT88	15OCT88	27
320H178A31	6	6	0	45	BLOCK WORKS OF CHASES	11SEP88	17SEP88	12OCT88	18OCT88	27
215H027A31	6	6	0	46	BLOCK WORKS OF CHASES	15SEP88	21SEP88	17OCT88	23OCT88	27
215H026A31	6	6	0	47	BLOCK WORKS OF CHASES	19SEP88	25SEP88	20OCT88	26OCT88	27
215H025A31	6	6	0	48	BLOCK WORKS OF CHASES	22SEP88	28SEP88	25OCT88	31OCT88	28
215H024A31	6	6	0	49	BLOCK WORKS OF CHASES	27SEP88	3OCT88	29OCT88	3NOV88	27
215H023A31	6	6	0	50	BLOCK WORKS OF CHASES	1OCT88	6OCT88	2NOV88	8NOV88	28
215H022A31	6	6	0	51	BLOCK WORKS OF CHASES	4OCT88	10OCT88	6NOV88	12NOV88	28
211H043A32	8	8	0	01	PLASTERING	20MAR88	29MAR88	23MAR88	2APR88	3
211H042A32	8	8	0	02	PLASTERING	23MAR88	2APR88	29MAR88	6APR88	4
321H174A32	8	8	0	03	PLASTERING	29MAR88	6APR88	3APR88	11APR88	4
321H175A32	8	8	0	04	PLASTERING	2APR88	10APR88	7APR88	16APR88	5
211H044A32	8	8	0	05	PLASTERING	6APR88	14APR88	12APR88	20APR88	5
323H185A32	8	8	0	06	PLASTERING	10APR88	18APR88	17APR88	25APR88	6
323H186A32	8	8	0	07	PLASTERING	14APR88	23APR88	21APR88	30APR88	6
323H187A32	8	8	0	08	PLASTERING	18APR88	26APR88	26APR88	4MAY88	7
214H030A32	8	8	0	09	PLASTERING	23APR88	1MAY88	1MAY88	9MAY88	7
214H029A32	8	8	0	10	PLASTERING	26APR88	4MAY88	5MAY88	14MAY88	8
214H031A32	8	8	0	11	PLASTERING	1MAY88	9MAY88	10MAY88	19MAY88	8
216H020A32	8	8	0	12	PLASTERING	4MAY88	12MAY88	15MAY88	23MAY88	9
216H019A32	8	8	0	13	PLASTERING	9MAY88	17MAY88	19MAY88	28MAY88	9
216H018A32	8	8	0	14	PLASTERING	12MAY88	21MAY88	24MAY88	3JUN88	10
218H015A32	8	8	0	15	PLASTERING	17MAY88	25MAY88	29MAY88	7JUN88	10
218H014A32	8	8	0	16	PLASTERING	21MAY88	29MAY88	4JUN88	12JUN88	11
218H013A32	8	8	0	17	PLASTERING	25MAY88	4JUN88	8JUN88	16JUN88	11
322H188A32	8	8	0	18	PLASTERING	29MAY88	7JUN88	13JUN88	21JUN88	12
322H189A32	8	8	0	19	PLASTERING	4JUN88	12JUN88	18JUN88	26JUN88	12
322H190A32	8	8	0	20	PLASTERING	7JUN88	15JUN88	22JUN88	30JUN88	13
216H021A32	8	8	0	21	PLASTERING	12JUN88	20JUN88	27JUN88	5JUL88	13
219H010A32	8	8	0	22	PLASTERING	15JUN88	23JUN88	2JUL88	10JUL88	14
220H007A32	8	8	0	23	PLASTERING	20JUN88	28JUN88	6JUL88	14JUL88	14
213H035A32	8	8	0	24	PLASTERING	23JUN88	2JUL88	11JUL88	19JUL88	15
213H036A32	8	8	0	25	PLASTERING	28JUN88	6JUL88	16JUL88	24JUL88	15
213H037A32	8	8	0	26	PLASTERING	2JUL88	10JUL88	20JUL88	28JUL88	16
213H038A32	8	8	0	27	PLASTERING	6JUL88	14JUL88	25JUL88	2AUG88	16
213H039A32	8	8	0	28	PLASTERING	10JUL88	18JUL88	30JUL88	8AUG88	17
213H040A32	8	8	0	29	PLASTERING	14JUL88	23JUL88	3AUG88	13AUG88	17
219H011A32	8	8	0	30	PLASTERING	18JUL88	26JUL88	9AUG88	17AUG88	18
219H012A32	8	8	0	31	PLASTERING	23JUL88	31JUL88	14AUG88	22AUG88	18
217H017A32	8	8	0	32	PLASTERING	26JUL88	3AUG88	18AUG88	28AUG88	19
221H003A32	8	8	0	33	PLASTERING	31JUL88	9AUG88	23AUG88	1SEP88	19
221H002A32	8	8	0	34	PLASTERING	3AUG88	13AUG88	29AUG88	6SEP88	20
221H001A32	8	8	0	35	PLASTERING	9AUG88	17AUG88	3SEP88	11SEP88	20
220H009A32	8	8	0	36	PLASTERING	13AUG88	21AUG88	7SEP88	15SEP88	21
220H008A32	8	8	0	37	PLASTERING	17AUG88	27AUG88	12SEP88	20SEP88	21
220H007A32	8	8	0	38	PLASTERING	21AUG88	30AUG88	17SEP88	25SEP88	22
220H006A32	8	8	0	39	PLASTERING	27AUG88	4SEP88	21SEP88	29SEP88	22
220H005A32	8	8	0	40	PLASTERING	30AUG88	7SEP88	26SEP88	4OCT88	23
220H004A32	8	8	0	41	PLASTERING	4SEP88	12SEP88	1OCT88	9OCT88	23
320H176A32	8	8	0	42	PLASTERING	7SEP88	15SEP88	5OCT88	13OCT88	24
320H177A32	8	8	0	43	PLASTERING	12SEP88	20SEP88	9OCT88	17OCT88	23
320H178A32	8	8	0	44	PLASTERING	15SEP88	24SEP88	13OCT88	22OCT88	24
215H027A32	8	8	0	45	PLASTERING	20SEP88	28SEP88	17OCT88	25OCT88	23
215H026A32	8	8	0	46	PLASTERING	24SEP88	2OCT88	20OCT88	29OCT88	23
215H025A32	8	8	0	47	PLASTERING	28SEP88	6OCT88	24OCT88	31NOV88	22
215H024A32	8	8	0	48	PLASTERING	2OCT88	10OCT88	29OCT88	6NOV88	23
215H023A32	8	8	0	49	PLASTERING	6OCT88	15OCT88	1NOV88	9NOV88	22
215H022A32	8	8	0	50	PLASTERING	10OCT88	18OCT88	5NOV88	13NOV88	22
211H043A33	24	24	0	01	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	29MAR88	25APR88	11MAR88	27APR88	2
211H042A33	24	24	0	02	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	29MAR88	25APR88	5APR88	2MAY88	6
321H174A33	24	24	0	03	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	4APR88	1MAY88	9APR88	5MAY88	4
321H175A33	24	24	0	04	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	9APR88	8MAY88	13APR88	10MAY88	4
211H044A33	24	24	0	05	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	11APR88	8MAY88	17APR88	14MAY88	5
323H185A33	24	24	0	06	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	14APR88	11MAY88	21APR88	18MAY88	6
323H186A33	24	24	0	07	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	19APR88	16MAY88	25APR88	22MAY88	5
323H187A33	24	24	0	08	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	23APR88	19MAY88	30APR88	26MAY88	6
214H030A33	24	24	0	09	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	26APR88	23MAY88	3MAY88	31MAY88	6
214H029A33	24	24	0	10	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	30APR88	26MAY88	8MAY88	5JUN88	7
214H028A33	24	24	0	11	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	3MAY88	31MAY88	11MAY88	8JUN88	7
214H031A33	24	24	0	12	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	7MAY88	4JUN88	16MAY88	13JUN88	8
216H020A33	24	24	0	13	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	10MAY88	7JUN88	19MAY88	16JUN88	8
216H019A33	24	24	0	14	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	14MAY88	11JUN88	24MAY88	21JUN88	9
216H018A33	24	24	0	15	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	17MAY88	14JUN88	28MAY88	25JUN88	9
218H015A33	24	24	0	16	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	21MAY88	18JUN88	2JUN88	29JUN88	10
218H014A33	24	24	0	17	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	24MAY88	21JUN88	6JUN88	3JUL88	10
218H013A33	24	24	0	18	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	28MAY88	25JUN88	11JUN88	7JUL88	11
322H188A33	24	24	0	19	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	1JUN88	28JUN88	14JUN88	11JUL88	11
322H189A33	24	24	0	20	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	5JUN88	2JUL88	18JUN88	14JUL88	11
322H190A33	24	24	0	21	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	8JUN88	5JUL88	21JUN88	18JUL88	11
216H021A33	24	24	0	22	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	12JUN88	9JUL88	25JUN88	21JUL88	11
219H010A33	24	24	0	23	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	15JUN88	12JUL88	28JUN88	25JUL88	11
220H007A33	24	24	0	24	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	19JUN88	16JUL88	2JUL88	28JUL88	11
213H035A33	24	24	0	25	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	22JUN88	19JUL88	5JUL88	1AUG88	11
213H036A33	24	24	0	26	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	25JUN88	23JUL88	9JUL88	6AUG88	11
213H037A33	24	24	0	27	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	29JUN88	26JUL88	12JUL88	9AUG88	11
213H038A33	24	24	0	28	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	3JUL88	30JUL88	16JUL88	13AUG88	11
213H039A33	24	24	0	29	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	6JUL88	2AUG88	19JUL88	16AUG88	11
213H040A33	24	24	0	30	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	10JUL88	7AUG88	23JUL88	20AUG88	11
219H011A33	24	24	0	31	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	14JUL88	11AUG88	26JUL88	23AUG88	10
219H012A33	24	24	0	32	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	17JUL88	14AUG88	30JUL88	28AUG88	11
217H017A33	24	24	0	33	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	23JUL88	20AUG88	2AUG88	31AUG88	9
217H016A33	24	24	0	34	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	24JUL88	21AUG88	7AUG88	4SEP88	11

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 13

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
221H003A33	24	24	0	35	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	31JUL88	29AUG88	10AUG88	7SEP88	8
221H002A33	24	24	0	36	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	31JUL88	29AUG88	14AUG88	11SEP88	11
221H001A33	24	24	0	37	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	9AUG88	6SEP88	17AUG88	14SEP88	7
220H009A33	24	24	0	38	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	9AUG88	6SEP88	24AUG88	18SEP88	10
220H008A33	24	24	0	39	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	17AUG88	14SEP88	24AUG88	21SEP88	9
220H006A33	24	24	0	40	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	17AUG88	14SEP88	29AUG88	25SEP88	9
220H005A33	24	24	0	41	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	27AUG88	22SEP88	1SEP89	28SEP88	5
220H004A33	24	24	0	42	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	27AUG88	22SEP88	5SEP89	20OCT88	8
220H003A33	24	24	0	43	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	4SEP88	1OCT88	8SEP88	5OCT88	4
220H017A33	24	24	0	44	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	4SEP88	1OCT88	12SEP88	9OCT88	7
220H016A33	24	24	0	45	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	12SEP88	9OCT88	15SEP88	12OCT88	3
215H027A33	24	24	0	46	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	13SEP88	10OCT88	19SEP88	16OCT88	5
215H026A33	24	24	0	47	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	20SEP88	17OCT88	22SEP88	19OCT88	2
215H025A33	24	24	0	48	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	20SEP88	17OCT88	26SEP88	23OCT88	5
215H024A33	24	24	0	49	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	28SEP88	25OCT88	29SEP88	26OCT88	1
215H023A33	24	24	0	50	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	29SEP88	26OCT88	3OCT88	30OCT88	3
215H022A33	24	24	0	51	BOUNDARY WALL SUB-STRUCTURE (Plain conc. to GB.)	6OCT88	2NOV88	6OCT88	2NOV88	0
211H043A34	6	6	0	01	PARAPETS COPING & TANK SUPPORTS	29MAR88	4APR88	6APR88	12APR88	7
211H042A34	6	6	0	02	PARAPETS COPING & TANK SUPPORTS	29MAR88	4APR88	11APR88	17APR88	11
211H041A34	6	6	0	03	PARAPETS COPING & TANK SUPPORTS	5APR88	11APR88	16APR88	21APR88	9
211H037A34	6	6	0	04	PARAPETS COPING & TANK SUPPORTS	9APR88	14APR88	20APR88	26APR88	10
211H044A34	6	6	0	05	PARAPETS COPING & TANK SUPPORTS	12APR88	18APR88	25APR88	1MAY88	11
211H035A34	6	6	0	06	PARAPETS COPING & TANK SUPPORTS	16APR88	21APR88	30APR88	5MAY88	12
211H036A34	6	6	0	07	PARAPETS COPING & TANK SUPPORTS	19APR88	25APR88	4MAY88	10MAY88	13
211H037A34	6	6	0	08	PARAPETS COPING & TANK SUPPORTS	23APR88	28APR88	9MAY88	15MAY88	14
211H038A34	6	6	0	09	PARAPETS COPING & TANK SUPPORTS	26APR88	2MAY88	14MAY88	19MAY88	15
211H039A34	6	6	0	10	PARAPETS COPING & TANK SUPPORTS	30APR88	5MAY88	18MAY88	24MAY88	16
211H040A34	6	6	0	11	PARAPETS COPING & TANK SUPPORTS	3MAY88	9MAY88	23MAY88	29MAY88	17
211H041A34	6	6	0	12	PARAPETS COPING & TANK SUPPORTS	7MAY88	12MAY88	28MAY88	4JUN88	18
211H042A34	6	6	0	13	PARAPETS COPING & TANK SUPPORTS	10MAY88	16MAY88	2JUN88	8JUN88	19
211H043A34	6	6	0	14	PARAPETS COPING & TANK SUPPORTS	14MAY88	19MAY88	7JUN88	13JUN88	20
211H044A34	6	6	0	15	PARAPETS COPING & TANK SUPPORTS	17MAY88	23MAY88	12JUN88	18JUN88	21
211H045A34	6	6	0	16	PARAPETS COPING & TANK SUPPORTS	21MAY88	26MAY88	16JUN88	22JUN88	22
211H046A34	6	6	0	17	PARAPETS COPING & TANK SUPPORTS	24MAY88	31MAY88	21JUN88	27JUN88	23
211H047A34	6	6	0	18	PARAPETS COPING & TANK SUPPORTS	28MAY88	4JUN88	26JUN88	3JUL88	24
211H048A34	6	6	0	19	PARAPETS COPING & TANK SUPPORTS	1JUN88	7JUN88	30JUN88	6JUL88	25
211H049A34	6	6	0	20	PARAPETS COPING & TANK SUPPORTS	5JUN88	11JUN88	5JUL88	11JUL88	26
211H050A34	6	6	0	21	PARAPETS COPING & TANK SUPPORTS	8JUN88	14JUN88	10JUL88	16JUL88	27
211H051A34	6	6	0	22	PARAPETS COPING & TANK SUPPORTS	12JUN88	18JUN88	14JUL88	20JUL88	28
211H052A34	6	6	0	23	PARAPETS COPING & TANK SUPPORTS	15JUN88	21JUN88	19JUL88	25JUL88	29
211H053A34	6	6	0	24	PARAPETS COPING & TANK SUPPORTS	19JUN88	25JUN88	24JUL88	30JUL88	30
211H054A34	6	6	0	25	PARAPETS COPING & TANK SUPPORTS	22JUN88	28JUN88	28JUL88	3AUG88	31
211H055A34	6	6	0	26	PARAPETS COPING & TANK SUPPORTS	26JUN88	2JUL88	2AUG88	9AUG88	32
211H056A34	6	6	0	27	PARAPETS COPING & TANK SUPPORTS	29JUN88	5JUL88	8AUG88	14AUG88	33
211H057A34	6	6	0	28	PARAPETS COPING & TANK SUPPORTS	3JUL88	9JUL88	13AUG88	18AUG88	34
211H058A34	6	6	0	29	PARAPETS COPING & TANK SUPPORTS	6JUL88	12JUL88	17AUG88	23AUG88	35
211H059A34	6	6	0	30	PARAPETS COPING & TANK SUPPORTS	10JUL88	16JUL88	22AUG88	29AUG88	36
211H060A34	6	6	0	31	PARAPETS COPING & TANK SUPPORTS	14JUL88	20JUL88	28AUG88	3SEP88	36
211H061A34	6	6	0	32	PARAPETS COPING & TANK SUPPORTS	17JUL88	23JUL88	1SEP88	7SEP88	38
211H062A34	6	6	0	33	PARAPETS COPING & TANK SUPPORTS	23JUL88	28JUL88	6SEP88	12SEP88	37
211H063A34	6	6	0	34	PARAPETS COPING & TANK SUPPORTS	24JUL88	30JUL88	11SEP88	17SEP88	40
211H064A34	6	6	0	35	PARAPETS COPING & TANK SUPPORTS	31JUL88	7AUG88	15SEP88	21SEP88	38
211H065A34	6	6	0	36	PARAPETS COPING & TANK SUPPORTS	31JUL88	7AUG88	20SEP88	26SEP88	42
211H066A34	6	6	0	37	PARAPETS COPING & TANK SUPPORTS	9AUG88	15AUG88	25SEP88	1OCT88	39
211H067A34	6	6	0	38	PARAPETS COPING & TANK SUPPORTS	9AUG88	15AUG88	29SEP88	5OCT88	43
211H068A34	6	6	0	39	PARAPETS COPING & TANK SUPPORTS	17AUG88	23AUG88	4OCT88	10OCT88	40
211H069A34	6	6	0	40	PARAPETS COPING & TANK SUPPORTS	17AUG88	23AUG88	9OCT88	15OCT88	44
211H070A34	6	6	0	41	PARAPETS COPING & TANK SUPPORTS	27AUG88	1SEP88	13OCT88	19OCT88	41
211H071A34	6	6	0	42	PARAPETS COPING & TANK SUPPORTS	27AUG88	1SEP88	17OCT88	23OCT88	44
211H072A34	6	6	0	43	PARAPETS COPING & TANK SUPPORTS	4SEP88	10SEP88	22OCT88	27OCT88	41
211H073A34	6	6	0	44	PARAPETS COPING & TANK SUPPORTS	4SEP88	10SEP88	25OCT88	31OCT88	44
211H074A34	6	6	0	45	PARAPETS COPING & TANK SUPPORTS	12SEP88	18SEP88	29OCT88	3NOV88	40
211H075A34	6	6	0	46	PARAPETS COPING & TANK SUPPORTS	13SEP88	19SEP88	2NOV88	8NOV88	43
211H076A34	6	6	0	47	PARAPETS COPING & TANK SUPPORTS	20SEP88	26SEP88	6NOV88	12NOV88	40
211H077A34	6	6	0	48	PARAPETS COPING & TANK SUPPORTS	20SEP88	26SEP88	9NOV88	15NOV88	43
211H078A34	6	6	0	49	PARAPETS COPING & TANK SUPPORTS	28SEP88	4OCT88	14NOV88	20NOV88	40
211H079A34	6	6	0	50	PARAPETS COPING & TANK SUPPORTS	29SEP88	5OCT88	17NOV88	23NOV88	42
211H080A34	6	6	0	51	PARAPETS COPING & TANK SUPPORTS	6OCT88	12OCT88	21NOV88	27NOV88	39
211H043A35	12	12	0	01	PORCELAIN WALL TILES	27MAR88	10APR88	29MAR88	11APR88	1
211H042A35	12	12	0	02	PORCELAIN WALL TILES	31MAR88	13APR88	3APR88	16APR88	2
211H041A35	12	12	0	03	PORCELAIN WALL TILES	4APR88	17APR88	7APR88	20APR88	3
211H040A35	12	12	0	04	PORCELAIN WALL TILES	9APR88	21APR88	12APR88	25APR88	3
211H039A35	12	12	0	05	PORCELAIN WALL TILES	12APR88	25APR88	17APR88	30APR88	4
211H038A35	12	12	0	06	PORCELAIN WALL TILES	16APR88	28APR88	21APR88	4MAY88	5
211H037A35	12	12	0	07	PORCELAIN WALL TILES	20APR88	3MAY88	26APR88	9MAY88	5
211H036A35	12	12	0	08	PORCELAIN WALL TILES	24APR88	7MAY88	1MAY88	14MAY88	6
211H035A35	12	12	0	09	PORCELAIN WALL TILES	27APR88	10MAY88	5MAY88	18MAY88	7
211H034A35	12	12	0	10	PORCELAIN WALL TILES	2MAY88	15MAY88	10MAY88	23MAY88	7
211H033A35	12	12	0	11	PORCELAIN WALL TILES	5MAY88	18MAY88	15MAY88	28MAY88	8
211H032A35	12	12	0	12	PORCELAIN WALL TILES	9MAY88	22MAY88	19MAY88	3JUN88	9
211H031A35	12	12	0	13	PORCELAIN WALL TILES	14MAY88	26MAY88	24MAY88	7JUN88	9
211H030A35	12	12	0	14	PORCELAIN WALL TILES	17MAY88	31MAY88	29MAY88	12JUN88	10
211H029A35	12	12	0	15	PORCELAIN WALL TILES	21MAY88	4JUN88	4JUN88	16JUN88	11
211H028A35	12	12	0	16	PORCELAIN WALL TILES	25MAY88	8JUN88	8JUN88	21JUN88	11
211H027A35	12	12	0	17	PORCELAIN WALL TILES	29MAY88	12JUN88	13JUN88	26JUN88	12
211H026A35	12	12	0	18	PORCELAIN WALL TILES	2JUN88	15JUN88	18JUN88	30JUN88	13
211H025A35	12	12	0	19	PORCELAIN WALL TILES	7JUN88	20JUN88	22JUN88	5JUL88	13
211H024A35	12	12	0	20	PORCELAIN WALL TILES	11JUN88	23JUN88	27JUN88	10JUL88	14
211H023A35	12	12	0	21	PORCELAIN WALL TILES	14JUN88	27JUN88	2JUL88	14JUL88	15
211H022A35	12	12	0	22	PORCELAIN WALL TILES	19JUN88	2JUL88	6JUL88	19JUL88	15
211H021A35	12	12	0	23	PORCELAIN WALL TILES	22JUN88	5JUL88	11JUL88	24JUL88	16
211H020A35	12	12	0	24	PORCELAIN WALL TILES	26JUN88	9JUL88	16JUL88	28JUL88	17
211H019A35	12	12	0	25	PORCELAIN WALL TILES	30JUN88	13JUL88	20JUL88	2AUG88	17
211H018A35	12	12	0	26	PORCELAIN WALL TILES	4JUL88	17JUL88	25JUL88	8AUG88	18
211H017A35	12	12	0	27	PORCELAIN WALL TILES	7JUL88	20JUL88	30JUL88	13AUG88	19
211H016A35	12	12	0	28	PORCELAIN WALL TILES	12JUL88	25JUL88	3AUG88	17AUG88	19

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.

PRIMAVERA PROJECT PLANNER

Correcting Out-of-Logic Progress Nsq

REPORT DATE 11SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR95

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 14

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
213H033A35	12	12	0	29	PORCELAIN WALL TILES	16JUL88	28JUL88	9AUG88	22AUG88	20
213H034A35	12	12	0	30	PORCELAIN WALL TILES	19JUL88	1AUG88	14AUG88	28AUG88	21
219H011A35	12	12	0	31	PORCELAIN WALL TILES	24JUL88	7AUG88	18AUG88	1SEP88	21
219H012A35	12	12	0	32	PORCELAIN WALL TILES	27JUL88	10AUG88	23AUG88	6SEP88	22
217H017A35	12	12	0	33	PORCELAIN WALL TILES	31JUL88	14AUG88	29AUG88	11SEP88	23
217H016A35	12	12	0	34	PORCELAIN WALL TILES	6AUG88	18AUG88	3SEP88	15SEP88	23
221H003A35	12	12	0	35	PORCELAIN WALL TILES	9AUG88	22AUG88	7SEP88	20SEP88	24
221H002A35	12	12	0	36	PORCELAIN WALL TILES	13AUG88	27AUG88	12SEP88	25SEP88	25
221H001A35	12	12	0	37	PORCELAIN WALL TILES	17AUG88	31AUG88	17SEP88	29SEP88	25
220H009A35	12	12	0	38	PORCELAIN WALL TILES	21AUG88	4SEP88	21SEP88	4OCT88	26
220H008A35	12	12	0	39	PORCELAIN WALL TILES	24AUG88	7SEP88	25SEP88	8OCT88	26
220H006A35	12	12	0	40	PORCELAIN WALL TILES	30AUG88	12SEP88	29SEP88	12OCT88	26
220H005A35	12	12	0	41	PORCELAIN WALL TILES	3SEP88	15SEP88	3OCT88	16OCT88	26
220H004A35	12	12	0	42	PORCELAIN WALL TILES	6SEP88	19SEP88	8OCT88	20OCT88	27
320H176A35	12	12	0	43	PORCELAIN WALL TILES	11SEP88	24SEP88	11OCT88	24OCT88	26
320H177A35	12	12	0	44	PORCELAIN WALL TILES	14SEP88	27SEP88	16OCT88	29OCT88	27
320H178A35	12	12	0	45	PORCELAIN WALL TILES	18SEP88	1OCT88	19OCT88	1NOV88	27
215H027A35	12	12	0	46	PORCELAIN WALL TILES	22SEP88	5OCT88	24OCT88	6NOV88	27
215H026A35	12	12	0	47	PORCELAIN WALL TILES	26SEP88	9OCT88	27OCT88	9NOV88	27
215H025A35	12	12	0	48	PORCELAIN WALL TILES	29SEP88	12OCT88	1NOV88	14NOV88	28
215H024A35	12	12	0	49	PORCELAIN WALL TILES	4OCT88	17OCT88	5NOV88	17NOV88	27
215H023A35	12	12	0	50	PORCELAIN WALL TILES	8OCT88	20OCT88	9NOV88	22NOV88	28
215H022A35	12	12	0	51	PORCELAIN WALL TILES	11OCT88	24OCT88	13NOV88	26NOV88	28
211H043A36	10	10	0	01	ROOF FOAM & SCREED	5APR88	16APR88	13APR88	24APR88	7
211H042A36	10	10	0	02	ROOF FOAM & SCREED	5APR88	16APR88	18APR88	28APR88	11
321H174A36	10	10	0	03	ROOF FOAM & SCREED	12APR88	23APR88	23APR88	3MAY88	9
321H175A36	10	10	0	04	ROOF FOAM & SCREED	17APR88	27APR88	27APR88	8MAY88	9
211H044A36	10	10	0	05	ROOF FOAM & SCREED	19APR88	30APR88	2MAY88	12MAY88	11
323H185A36	10	10	0	06	ROOF FOAM & SCREED	24APR88	4MAY88	7MAY88	17MAY88	11
323H186A36	10	10	0	07	ROOF FOAM & SCREED	28APR88	9MAY88	11MAY88	22MAY88	11
323H187A36	10	10	0	08	ROOF FOAM & SCREED	1MAY88	11MAY88	16MAY88	26MAY88	13
214H030A36	10	10	0	09	ROOF FOAM & SCREED	5MAY88	16MAY88	21MAY88	1JUN88	13
214H029A36	10	10	0	10	ROOF FOAM & SCREED	10MAY88	21MAY88	25MAY88	6JUN88	13
214H028A36	10	10	0	11	ROOF FOAM & SCREED	12MAY88	23MAY88	31MAY88	11JUN88	15
214H031A36	10	10	0	12	ROOF FOAM & SCREED	17MAY88	28MAY88	5JUN88	15JUN88	15
216H020A36	10	10	0	13	ROOF FOAM & SCREED	22MAY88	2JUN88	9JUN88	20JUN88	15
216H019A36	10	10	0	14	ROOF FOAM & SCREED	24MAY88	5JUN88	14JUN88	25JUN88	17
216H018A36	10	10	0	15	ROOF FOAM & SCREED	29MAY88	9JUN88	19JUN88	29JUN88	17
219H015A36	10	10	0	16	ROOF FOAM & SCREED	4JUN88	14JUN88	23JUN88	4JUL88	17
219H014A36	10	10	0	17	ROOF FOAM & SCREED	6JUN88	16JUN88	26JUN88	9JUL88	19
219H013A36	10	10	0	18	ROOF FOAM & SCREED	11JUN88	21JUN88	3JUL88	13JUL88	19
322H188A36	10	10	0	19	ROOF FOAM & SCREED	15JUN88	26JUN88	7JUL88	18JUL88	19
322H189A36	10	10	0	20	ROOF FOAM & SCREED	18JUN88	28JUN88	12JUL88	23JUL88	21
322H190A36	10	10	0	21	ROOF FOAM & SCREED	22JUN88	3JUL88	17JUL88	27JUL88	21
216H021A36	10	10	0	22	ROOF FOAM & SCREED	27JUN88	7JUL88	21JUL88	1AUG88	21
219H010A36	10	10	0	23	ROOF FOAM & SCREED	29JUN88	10JUL88	26JUL88	7AUG88	23
220H007A36	10	10	0	24	ROOF FOAM & SCREED	4JUL88	14JUL88	31JUL88	11AUG88	23
213H035A36	10	10	0	25	ROOF FOAM & SCREED	9JUL88	19JUL88	6AUG88	16AUG88	23
213H036A36	10	10	0	26	ROOF FOAM & SCREED	11JUL88	21JUL88	10AUG88	21AUG88	25
213H037A36	10	10	0	27	ROOF FOAM & SCREED	16JUL88	26JUL88	15AUG88	27AUG88	25
213H032A36	10	10	0	28	ROOF FOAM & SCREED	20JUL88	31JUL88	20AUG88	31AUG88	25
213H033A36	10	10	0	29	ROOF FOAM & SCREED	23JUL88	2AUG88	24AUG88	5SEP88	27
213H034A36	10	10	0	30	ROOF FOAM & SCREED	27JUL88	8AUG88	30AUG88	10SEP88	27
219H011A36	10	10	0	31	ROOF FOAM & SCREED	1AUG88	13AUG88	4SEP88	14SEP88	27
219H012A36	10	10	0	32	ROOF FOAM & SCREED	3AUG88	15AUG88	8SEP88	19SEP88	29
217H017A36	10	10	0	33	ROOF FOAM & SCREED	9AUG88	20AUG88	13SEP88	24SEP88	29
217H016A36	10	10	0	34	ROOF FOAM & SCREED	14AUG88	24AUG88	18SEP88	28SEP88	29
221H003A36	10	10	0	35	ROOF FOAM & SCREED	16AUG88	28AUG88	22SEP88	3OCT88	31
221H002A36	10	10	0	36	ROOF FOAM & SCREED	21AUG88	1SEP88	27SEP88	8OCT88	31
221H001A36	10	10	0	37	ROOF FOAM & SCREED	27AUG88	4SEP88	2OCT88	12OCT88	31
220H009A36	10	10	0	38	ROOF FOAM & SCREED	29AUG88	8SEP88	6OCT88	17OCT88	33
220H008A36	10	10	0	39	ROOF FOAM & SCREED	3SEP88	13SEP88	11OCT88	22OCT88	33
220H006A36	10	10	0	40	ROOF FOAM & SCREED	7SEP88	18SEP88	16OCT88	26OCT88	33
220H005A36	10	10	0	41	ROOF FOAM & SCREED	10SEP88	20SEP88	20OCT88	31OCT88	35
220H004A36	10	10	0	42	ROOF FOAM & SCREED	14SEP88	25SEP88	24OCT88	3NOV88	34
320H176A36	10	10	0	43	ROOF FOAM & SCREED	19SEP88	29SEP88	29OCT88	8NOV88	34
320H177A36	10	10	0	44	ROOF FOAM & SCREED	21SEP88	2OCT88	1NOV88	12NOV88	35
320H178A36	10	10	0	45	ROOF FOAM & SCREED	26SEP88	6OCT88	5NOV88	15NOV88	34
215H027A36	10	10	0	46	ROOF FOAM & SCREED	1OCT88	11OCT88	9NOV88	20NOV88	34
215H026A36	10	10	0	47	ROOF FOAM & SCREED	3OCT88	13OCT88	13NOV88	23NOV88	35
215H025A36	10	10	0	48	ROOF FOAM & SCREED	8OCT88	18OCT88	16NOV88	27NOV88	34
215H024A36	10	10	0	49	ROOF FOAM & SCREED	12OCT88	23OCT88	21NOV88	1DEC88	34
215H023A36	10	10	0	50	ROOF FOAM & SCREED	15OCT88	25OCT88	24NOV88	5DEC88	35
215H022A36	10	10	0	51	ROOF FOAM & SCREED	19OCT88	30OCT88	28NOV88	8DEC88	34
211H043A37	6	6	0	01	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	30MAR88	5APR88	17APR88	23APR88	15
211H042A37	6	6	0	02	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	3APR88	9APR88	21APR88	27APR88	16
321H174A37	6	6	0	03	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	7APR88	13APR88	26APR88	2MAY88	16
321H175A37	6	6	0	04	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	11APR88	17APR88	1MAY88	7MAY88	17
211H044A37	6	6	0	05	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	16APR88	21APR88	5MAY88	11MAY88	17
323H185A37	6	6	0	06	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	19APR88	25APR88	10MAY88	16MAY88	18
323H186A37	6	6	0	07	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	24APR88	30APR88	15MAY88	21MAY88	18
323H187A37	6	6	0	08	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	27APR88	3MAY88	19MAY88	25MAY88	19
214H030A37	6	6	0	09	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	2MAY88	8MAY88	24MAY88	31MAY88	19
214H029A37	6	6	0	10	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	5MAY88	11MAY88	29MAY88	5JUN88	20
214H028A37	6	6	0	11	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	10MAY88	16MAY88	4JUN88	9JUN88	20
214H031A37	6	6	0	12	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	14MAY88	19MAY88	8JUN88	14JUN88	21
216H020A37	6	6	0	13	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	18MAY88	24MAY88	13JUN88	19JUN88	21
216H019A37	6	6	0	14	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	22MAY88	28MAY88	18JUN88	23JUN88	22
216H018A37	6	6	0	15	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	26MAY88	2JUN88	22JUN88	28JUN88	22
219H015A37	6	6	0	16	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	31MAY88	6JUN88	27JUN88	3JUL88	23
219H014A37	6	6	0	17	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	5JUN88	11JUN88	2JUL88	7JUL88	23
219H013A37	6	6	0	18	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	8JUN88	14JUN88	6JUL88	12JUL88	24
322H188A37	6	6	0	19	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	13JUN88	19JUN88	13JUL88	17JUL88	24
322H189A37	6	6	0	20	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	16JUN88	22JUN88	16JUL88	21JUL88	25
322H190A37	6	6	0	21	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	21JUN88	27JUN88	20JUL88	26JUL88	25
216H021A37	6	6	0	22	ELECTRICAL & TELEPHONE BOARDS , PANELS & WIRING	25JUN88	30JUN88	25JUL88	31JUL88	26

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 15

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
219H010A37	6	6	0	23	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	29JUN88	5JUL88	30JUL88	6AUG88	26
220H007A37	6	6	0	24	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	3JUL88	9JUL88	3AUG88	10AUG88	27
213H035A37	6	6	0	25	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	7JUL88	13JUL88	9AUG88	15AUG88	27
213H036A37	6	6	0	26	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	11JUL88	17JUL88	14AUG88	20AUG88	28
213H037A37	6	6	0	27	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	16JUL88	21JUL88	18AUG88	24AUG88	28
213H032A37	6	6	0	28	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	19JUL88	25JUL88	23AUG88	30AUG88	29
213H033A37	6	6	0	29	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	24JUL88	30JUL88	29AUG88	4SEP88	29
213H034A37	6	6	0	30	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	27JUL88	2AUG88	3SEP88	8SEP88	30
219H011A37	6	6	0	31	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	1AUG88	8AUG88	7SEP88	13SEP88	30
219H012A37	6	6	0	32	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	6AUG88	11AUG88	12SEP88	18SEP88	31
217H017A37	6	6	0	33	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	10AUG88	16AUG88	17SEP88	22SEP88	31
217H016A37	6	6	0	34	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	14AUG88	20AUG88	21SEP88	27SEP88	32
221H003A37	6	6	0	35	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	18AUG88	24AUG88	26SEP88	2OCT88	32
221H002A37	6	6	0	36	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	22AUG88	29AUG88	1OCT88	6OCT88	33
221H001A37	6	6	0	37	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	28AUG88	3SEP88	5OCT88	11OCT88	33
220H009A37	6	6	0	38	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	31AUG88	6SEP88	10OCT88	16OCT88	34
220H008A37	6	6	0	39	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	5SEP88	11SEP88	13OCT88	19OCT88	34
220H006A37	6	6	0	40	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	8SEP88	14SEP88	18OCT88	24OCT88	34
220H005A37	6	6	0	41	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	13SEP88	19SEP88	22OCT88	27OCT88	34
220H004A37	6	6	0	42	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	17SEP88	22SEP88	26OCT88	1NOV88	34
320H176A37	6	6	0	43	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	21SEP88	27SEP88	30OCT88	5NOV88	34
320H177A37	6	6	0	44	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	25SEP88	1OCT88	3NOV88	9NOV88	34
320H178A37	6	6	0	45	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	29SEP88	5OCT88	7NOV88	13NOV88	34
215H027A37	6	6	0	46	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	3OCT88	9OCT88	12NOV88	17NOV88	34
215H026A37	6	6	0	47	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	8OCT88	13OCT88	15NOV88	21NOV88	34
215H025A37	6	6	0	48	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	11OCT88	17OCT88	20NOV88	26NOV88	34
215H024A37	6	6	0	49	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	16OCT88	22OCT88	23NOV88	29NOV88	34
215H023A37	6	6	0	50	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	19OCT88	25OCT88	28NOV88	4DEC88	34
215H022A37	6	6	0	51	ELECTRICAL & TELEPHONE BOARDS, PANELS & WIRING	24OCT88	30OCT88	1DEC88	7DEC88	34
211H043A37	13	13	0	01	TERRAZZO FLOOR TILES & SKIRTING	30APR88	13APR88	3APR88	17APR88	3
211H042A37	13	13	0	02	TERRAZZO FLOOR TILES & SKIRTING	3APR88	17APR88	7APR88	21APR88	4
321H174A37	13	13	0	03	TERRAZZO FLOOR TILES & SKIRTING	7APR88	21APR88	12APR88	26APR88	4
321H175A37	13	13	0	04	TERRAZZO FLOOR TILES & SKIRTING	11APR88	25APR88	17APR88	1MAY88	5
211H044A37	13	13	0	05	TERRAZZO FLOOR TILES & SKIRTING	16APR88	30APR88	21APR88	5MAY88	5
323H185A37	13	13	0	06	TERRAZZO FLOOR TILES & SKIRTING	19APR88	3MAY88	26APR88	10MAY88	6
323H186A37	13	13	0	07	TERRAZZO FLOOR TILES & SKIRTING	24APR88	8MAY88	1MAY88	15MAY88	6
323H187A37	13	13	0	08	TERRAZZO FLOOR TILES & SKIRTING	27APR88	11MAY88	5MAY88	19MAY88	7
214H030A37	13	13	0	09	TERRAZZO FLOOR TILES & SKIRTING	2MAY88	16MAY88	10MAY88	24MAY88	7
214H029A37	13	13	0	10	TERRAZZO FLOOR TILES & SKIRTING	5MAY88	19MAY88	15MAY88	29MAY88	8
214H028A37	13	13	0	11	TERRAZZO FLOOR TILES & SKIRTING	10MAY88	24MAY88	19MAY88	4JUN88	8
214H031A37	13	13	0	12	TERRAZZO FLOOR TILES & SKIRTING	14MAY88	28MAY88	24MAY88	8JUN88	9
216H020A37	13	13	0	13	TERRAZZO FLOOR TILES & SKIRTING	18MAY88	2JUN88	29MAY88	13JUN88	9
216H019A37	13	13	0	14	TERRAZZO FLOOR TILES & SKIRTING	22MAY88	6JUN88	4JUN88	18JUN88	10
216H018A37	13	13	0	15	TERRAZZO FLOOR TILES & SKIRTING	26MAY88	11JUN88	8JUN88	22JUN88	10
218H015A37	13	13	0	16	TERRAZZO FLOOR TILES & SKIRTING	31MAY88	14JUN88	13JUN88	27JUN88	11
218H014A37	13	13	0	17	TERRAZZO FLOOR TILES & SKIRTING	5JUN88	19JUN88	18JUN88	2JUL88	11
218H013A37	13	13	0	18	TERRAZZO FLOOR TILES & SKIRTING	8JUN88	22JUN88	22JUN88	6JUL88	12
322H188A37	13	13	0	19	TERRAZZO FLOOR TILES & SKIRTING	13JUN88	27JUN88	27JUN88	11JUL88	12
322H189A37	13	13	0	20	TERRAZZO FLOOR TILES & SKIRTING	16JUN88	30JUN88	2JUL88	16JUL88	13
322H190A37	13	13	0	21	TERRAZZO FLOOR TILES & SKIRTING	21JUN88	5JUL88	6JUL88	20JUL88	13
216H021A37	13	13	0	22	TERRAZZO FLOOR TILES & SKIRTING	25JUN88	9JUL88	11JUL88	25JUL88	14
219H010A37	13	13	0	23	TERRAZZO FLOOR TILES & SKIRTING	29JUN88	13JUL88	16JUL88	30JUL88	14
220H007A37	13	13	0	24	TERRAZZO FLOOR TILES & SKIRTING	3JUL88	17JUL88	20JUL88	3AUG88	15
213H035A37	13	13	0	25	TERRAZZO FLOOR TILES & SKIRTING	7JUL88	21JUL88	25JUL88	9AUG88	15
213H036A37	13	13	0	26	TERRAZZO FLOOR TILES & SKIRTING	11JUL88	25JUL88	30JUL88	14AUG88	16
213H037A37	13	13	0	27	TERRAZZO FLOOR TILES & SKIRTING	16JUL88	30JUL88	3AUG88	18AUG88	16
213H032A37	13	13	0	28	TERRAZZO FLOOR TILES & SKIRTING	19JUL88	2AUG88	9AUG88	23AUG88	17
213H033A37	13	13	0	29	TERRAZZO FLOOR TILES & SKIRTING	24JUL88	8AUG88	14AUG88	29AUG88	17
213H034A37	13	13	0	30	TERRAZZO FLOOR TILES & SKIRTING	27JUL88	11AUG88	18AUG88	3SEP88	18
219H011A37	13	13	0	31	TERRAZZO FLOOR TILES & SKIRTING	1AUG88	16AUG88	23AUG88	7SEP88	18
219H012A37	13	13	0	32	TERRAZZO FLOOR TILES & SKIRTING	6AUG88	20AUG88	29AUG88	12SEP88	19
217H017A37	13	13	0	33	TERRAZZO FLOOR TILES & SKIRTING	10AUG88	24AUG88	3SEP88	17SEP88	19
217H016A37	13	13	0	34	TERRAZZO FLOOR TILES & SKIRTING	14AUG88	29AUG88	7SEP88	21SEP88	20
221H003A37	13	13	0	35	TERRAZZO FLOOR TILES & SKIRTING	18AUG88	1SEP88	12SEP88	26SEP88	20
221H002A37	13	13	0	36	TERRAZZO FLOOR TILES & SKIRTING	22AUG88	6SEP88	17SEP88	1OCT88	21
221H001A37	13	13	0	37	TERRAZZO FLOOR TILES & SKIRTING	28AUG88	11SEP88	21SEP88	5OCT88	21
220H009A37	13	13	0	38	TERRAZZO FLOOR TILES & SKIRTING	31AUG88	14SEP88	26SEP88	1OCT88	22
220H008A37	13	13	0	39	TERRAZZO FLOOR TILES & SKIRTING	5SEP88	19SEP88	1OCT88	15OCT88	22
220H006A37	13	13	0	40	TERRAZZO FLOOR TILES & SKIRTING	8SEP88	22SEP88	5OCT88	19OCT88	23
220H005A37	13	13	0	41	TERRAZZO FLOOR TILES & SKIRTING	13SEP88	27SEP88	10OCT88	24OCT88	23
220H004A37	13	13	0	42	TERRAZZO FLOOR TILES & SKIRTING	17SEP88	1OCT88	15OCT88	29OCT88	24
320H176A37	13	13	0	43	TERRAZZO FLOOR TILES & SKIRTING	21SEP88	5OCT88	18OCT88	1NOV88	23
320H177A37	13	13	0	44	TERRAZZO FLOOR TILES & SKIRTING	25SEP88	9OCT88	23OCT88	6NOV88	24
320H178A37	13	13	0	45	TERRAZZO FLOOR TILES & SKIRTING	29SEP88	13OCT88	26OCT88	9NOV88	23
215H027A37	13	13	0	46	TERRAZZO FLOOR TILES & SKIRTING	3OCT88	17OCT88	30OCT88	13NOV88	23
215H026A37	13	13	0	47	TERRAZZO FLOOR TILES & SKIRTING	8OCT88	22OCT88	2NOV88	16NOV88	22
215H025A37	13	13	0	48	TERRAZZO FLOOR TILES & SKIRTING	11OCT88	25OCT88	7NOV88	21NOV88	22
215H024A37	13	13	0	49	TERRAZZO FLOOR TILES & SKIRTING	16OCT88	30OCT88	10NOV88	24NOV88	22
215H023A37	13	13	0	50	TERRAZZO FLOOR TILES & SKIRTING	19OCT88	2NOV88	14NOV88	28NOV88	22
215H022A37	13	13	0	51	TERRAZZO FLOOR TILES & SKIRTING	24OCT88	7NOV88	17NOV88	1DEC88	21
211H043A40	6	6	0	01	ROOF WATER PROOFING LAYERS	17APR88	23APR88	25APR88	1MAY88	7
211H042A40	6	6	0	02	ROOF WATER PROOFING LAYERS	17APR88	23APR88	30APR88	5MAY88	11
321H174A40	6	6	0	03	ROOF WATER PROOFING LAYERS	24APR88	30APR88	4MAY88	10MAY88	9
321H175A40	6	6	0	04	ROOF WATER PROOFING LAYERS	28APR88	4MAY88	9MAY88	15MAY88	9
211H044A40	6	6	0	05	ROOF WATER PROOFING LAYERS	1MAY88	7MAY88	14MAY88	19MAY88	11
323H185A40	6	6	0	06	ROOF WATER PROOFING LAYERS	5MAY88	11MAY88	18MAY88	24MAY88	11
323H186A40	6	6	0	07	ROOF WATER PROOFING LAYERS	10MAY88	16MAY88	23MAY88	29MAY88	11
323H187A40	6	6	0	08	ROOF WATER PROOFING LAYERS	12MAY88	18MAY88	28MAY88	4JUN88	13
214H030A40	6	6	0	09	ROOF WATER PROOFING LAYERS	17MAY88	23MAY88	2JUN88	8JUN88	13
214H029A40	6	6	0	10	ROOF WATER PROOFING LAYERS	22MAY88	28MAY88	7JUN88	13JUN88	13
214H028A40	6	6	0	11	ROOF WATER PROOFING LAYERS	24MAY88	31MAY88	12JUN88	18JUN88	15
214H031A40	6	6	0	12	ROOF WATER PROOFING LAYERS	29MAY88	5JUN88	16JUN88	22JUN88	15
216H020A40	6	6	0	13	ROOF WATER PROOFING LAYERS	4JUN88	9JUN88	21JUN88	27JUN88	15
216H019A40	6	6	0	14	ROOF WATER PROOFING LAYERS	6JUN88	12JUN88	26JUN88	2JUL88	17
216H018A40	6	6	0	15	ROOF WATER PROOFING LAYERS	11JUN88	16JUN88	30JUN88	6JUL88	17
218H015A40	6	6	0	16	ROOF WATER PROOFING LAYERS	15JUN88	21JUN88	5JUL88	11JUL88	17

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205
18:31

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 16

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
218H014A40	6	6	0	17	ROOF WATER PROOFING LAYERS	18JUN88	23JUN88	10JUL88	16JUL88	19
218H013A40	6	6	0	18	ROOF WATER PROOFING LAYERS	22JUN88	28JUN88	14JUL88	20JUL88	19
322H188A40	6	6	0	19	ROOF WATER PROOFING LAYERS	27JUN88	3JUL88	19JUL88	25JUL88	19
322H189A40	6	6	0	20	ROOF WATER PROOFING LAYERS	29JUN88	5JUL88	24JUL88	30JUL88	21
322H190A40	6	6	0	21	ROOF WATER PROOFING LAYERS	4JUL88	10JUL88	28JUL88	3AUG88	21
216H021A40	6	6	0	22	ROOF WATER PROOFING LAYERS	9JUL88	14JUL88	2AUG88	9AUG88	21
219H010A40	6	6	0	23	ROOF WATER PROOFING LAYERS	11JUL88	17JUL88	8AUG88	14AUG88	23
220H007A40	6	6	0	24	ROOF WATER PROOFING LAYERS	16JUL88	21JUL88	13AUG88	18AUG88	23
213H035A40	6	6	0	25	ROOF WATER PROOFING LAYERS	20JUL88	26JUL88	17AUG88	23AUG88	23
213H036A40	6	6	0	26	ROOF WATER PROOFING LAYERS	23JUL88	28JUL88	22AUG88	29AUG88	25
213H037A40	6	6	0	27	ROOF WATER PROOFING LAYERS	27JUL88	2AUG88	28AUG88	3SEP88	25
213H032A40	6	6	0	28	ROOF WATER PROOFING LAYERS	1AUG88	8AUG88	1SEP88	7SEP88	25
213H033A40	6	6	0	29	ROOF WATER PROOFING LAYERS	3AUG88	10AUG88	6SEP88	12SEP88	27
213H034A40	6	6	0	30	ROOF WATER PROOFING LAYERS	9AUG88	15AUG88	11SEP88	17SEP88	27
219H011A40	6	6	0	31	ROOF WATER PROOFING LAYERS	14AUG88	20AUG88	15SEP88	21SEP88	27
219H012A40	6	6	0	32	ROOF WATER PROOFING LAYERS	16AUG88	22AUG88	20SEP88	26SEP88	29
217H017A40	6	6	0	33	ROOF WATER PROOFING LAYERS	21AUG88	28AUG88	25SEP88	1OCT88	29
217H016A40	6	6	0	34	ROOF WATER PROOFING LAYERS	27AUG88	1SEP88	29SEP88	5OCT88	29
221H003A40	6	6	0	35	ROOF WATER PROOFING LAYERS	29AUG88	4SEP88	4OCT88	10OCT88	31
221H002A40	6	6	0	36	ROOF WATER PROOFING LAYERS	3SEP88	8SEP88	9OCT88	15OCT88	31
221H001A40	6	6	0	37	ROOF WATER PROOFING LAYERS	7SEP88	13SEP88	13OCT88	19OCT88	31
220H009A40	6	6	0	38	ROOF WATER PROOFING LAYERS	10SEP88	15SEP88	18OCT88	24OCT88	33
220H008A40	6	6	0	39	ROOF WATER PROOFING LAYERS	14SEP88	20SEP88	23OCT88	29OCT88	33
220H006A40	6	6	0	40	ROOF WATER PROOFING LAYERS	19SEP88	25SEP88	27OCT88	3NOV88	33
220H005A40	6	6	0	41	ROOF WATER PROOFING LAYERS	21SEP88	27SEP88	1NOV88	7NOV88	35
220H004A40	6	6	0	42	ROOF WATER PROOFING LAYERS	26SEP88	2OCT88	6NOV88	12NOV88	35
320H176A40	6	6	0	43	ROOF WATER PROOFING LAYERS	1OCT88	6OCT88	9NOV88	15NOV88	34
320H177A40	6	6	0	44	ROOF WATER PROOFING LAYERS	3OCT88	9OCT88	14NOV88	20NOV88	36
320H178A40	6	6	0	45	ROOF WATER PROOFING LAYERS	8OCT88	13OCT88	17NOV88	23NOV88	35
215H027A40	6	6	0	46	ROOF WATER PROOFING LAYERS	12OCT88	18OCT88	23NOV88	28NOV88	35
215H026A40	6	6	0	47	ROOF WATER PROOFING LAYERS	15OCT88	20OCT88	26NOV88	1DEC88	36
215H025A40	6	6	0	48	ROOF WATER PROOFING LAYERS	19OCT88	25OCT88	29NOV88	5DEC88	35
215H024A40	6	6	0	49	ROOF WATER PROOFING LAYERS	24OCT88	30OCT88	3DEC88	8DEC88	34
215H023A40	6	6	0	50	ROOF WATER PROOFING LAYERS	26OCT88	1NOV88	6DEC88	12DEC88	35
215H022A40	6	6	0	51	ROOF WATER PROOFING LAYERS	31OCT88	6NOV88	10DEC88	15DEC88	34
211H043A41	4	4	0	01	SANITARY FITTINGS (Floor Embedded)	11APR88	14APR88	12APR88	16APR88	1
211H042A41	4	4	0	02	SANITARY FITTINGS (Floor Embedded)	14APR88	18APR88	17APR88	20APR88	2
321H174A41	4	4	0	03	SANITARY FITTINGS (Floor Embedded)	18APR88	21APR88	21APR88	25APR88	3
321H175A41	4	4	0	04	SANITARY FITTINGS (Floor Embedded)	23APR88	26APR88	26APR88	30APR88	3
211H044A41	4	4	0	05	SANITARY FITTINGS (Floor Embedded)	26APR88	30APR88	1MAY88	4MAY88	4
323H185A41	4	4	0	06	SANITARY FITTINGS (Floor Embedded)	30APR88	3MAY88	5MAY88	9MAY88	5
323H186A41	4	4	0	07	SANITARY FITTINGS (Floor Embedded)	4MAY88	8MAY88	10MAY88	14MAY88	5
323H187A41	4	4	0	08	SANITARY FITTINGS (Floor Embedded)	8MAY88	11MAY88	15MAY88	19MAY88	6
214H030A41	4	4	0	09	SANITARY FITTINGS (Floor Embedded)	11MAY88	15MAY88	19MAY88	23MAY88	7
214H029A41	4	4	0	10	SANITARY FITTINGS (Floor Embedded)	16MAY88	19MAY88	24MAY88	28MAY88	7
214H028A41	4	4	0	11	SANITARY FITTINGS (Floor Embedded)	19MAY88	23MAY88	29MAY88	3JUN88	8
214H031A41	4	4	0	12	SANITARY FITTINGS (Floor Embedded)	23MAY88	26MAY88	4JUN88	7JUN88	9
216H020A41	4	4	0	13	SANITARY FITTINGS (Floor Embedded)	28MAY88	1JUN88	8JUN88	12JUN88	9
216H019A41	4	4	0	14	SANITARY FITTINGS (Floor Embedded)	1JUN88	5JUN88	13JUN88	16JUN88	10
216H018A41	4	4	0	15	SANITARY FITTINGS (Floor Embedded)	5JUN88	8JUN88	18JUN88	21JUN88	11
218H015A41	4	4	0	16	SANITARY FITTINGS (Floor Embedded)	9JUN88	13JUN88	22JUN88	26JUN88	11
218H014A41	4	4	0	17	SANITARY FITTINGS (Floor Embedded)	13JUN88	16JUN88	27JUN88	30JUN88	12
219H013A41	4	4	0	18	SANITARY FITTINGS (Floor Embedded)	16JUN88	20JUN88	2JUL88	5JUL88	13
322H188A41	4	4	0	19	SANITARY FITTINGS (Floor Embedded)	21JUN88	25JUN88	6JUL88	10JUL88	13
322H189A41	4	4	0	20	SANITARY FITTINGS (Floor Embedded)	25JUN88	28JUN88	11JUL88	14JUL88	14
322H190A41	4	4	0	21	SANITARY FITTINGS (Floor Embedded)	28JUN88	2JUL88	16JUL88	19JUL88	15
216H021A41	4	4	0	22	SANITARY FITTINGS (Floor Embedded)	3JUL88	6JUL88	20JUL88	24JUL88	15
219H010A41	4	4	0	23	SANITARY FITTINGS (Floor Embedded)	6JUL88	10JUL88	25JUL88	28JUL88	16
220H007A41	4	4	0	24	SANITARY FITTINGS (Floor Embedded)	10JUL88	13JUL88	30JUL88	2AUG88	17
220H006A41	4	4	0	25	SANITARY FITTINGS (Floor Embedded)	14JUL88	18JUL88	3AUG88	6AUG88	17
220H005A41	4	4	0	26	SANITARY FITTINGS (Floor Embedded)	18JUL88	21JUL88	9AUG88	13AUG88	18
220H004A41	4	4	0	27	SANITARY FITTINGS (Floor Embedded)	21JUL88	25JUL88	14AUG88	17AUG88	19
220H003A41	4	4	0	28	SANITARY FITTINGS (Floor Embedded)	26JUL88	30JUL88	19AUG88	22AUG88	19
220H002A41	4	4	0	29	SANITARY FITTINGS (Floor Embedded)	30JUL88	2AUG88	23AUG88	26AUG88	20
220H001A41	4	4	0	30	SANITARY FITTINGS (Floor Embedded)	2AUG88	7AUG88	29AUG88	1SEP88	21
219H011A41	4	4	0	31	SANITARY FITTINGS (Floor Embedded)	8AUG88	11AUG88	3SEP88	6SEP88	21
219H012A41	4	4	0	32	SANITARY FITTINGS (Floor Embedded)	11AUG88	15AUG88	7SEP88	11SEP88	22
217H017A41	4	4	0	33	SANITARY FITTINGS (Floor Embedded)	15AUG88	18AUG88	12SEP88	15SEP88	23
217H016A41	4	4	0	34	SANITARY FITTINGS (Floor Embedded)	20AUG88	23AUG88	17SEP88	20SEP88	23
221H003A41	4	4	0	35	SANITARY FITTINGS (Floor Embedded)	23AUG88	26AUG88	21SEP88	25SEP88	24
221H002A41	4	4	0	36	SANITARY FITTINGS (Floor Embedded)	28AUG88	31AUG88	26SEP88	29SEP88	25
221H001A41	4	4	0	37	SANITARY FITTINGS (Floor Embedded)	1SEP88	5SEP88	1OCT88	4OCT88	25
220H009A41	4	4	0	38	SANITARY FITTINGS (Floor Embedded)	5SEP88	8SEP88	5OCT88	9OCT88	26
220H008A41	4	4	0	39	SANITARY FITTINGS (Floor Embedded)	8SEP88	12SEP88	9OCT88	12OCT88	26
220H006A41	4	4	0	40	SANITARY FITTINGS (Floor Embedded)	13SEP88	17SEP88	13OCT88	17OCT88	26
220H005A41	4	4	0	41	SANITARY FITTINGS (Floor Embedded)	17SEP88	20SEP88	17OCT88	20OCT88	26
220H004A41	4	4	0	42	SANITARY FITTINGS (Floor Embedded)	20SEP88	24SEP88	22OCT88	25OCT88	27
320H176A41	4	4	0	43	SANITARY FITTINGS (Floor Embedded)	25SEP88	28SEP88	25OCT88	29OCT88	26
320H177A41	4	4	0	44	SANITARY FITTINGS (Floor Embedded)	28SEP88	2OCT88	3OCT88	2NOV88	27
320H178A41	4	4	0	45	SANITARY FITTINGS (Floor Embedded)	2OCT88	5OCT88	2NOV88	6NOV88	27
215H027A41	4	4	0	46	SANITARY FITTINGS (Floor Embedded)	6OCT88	10OCT88	7NOV88	10NOV88	27
215H026A41	4	4	0	47	SANITARY FITTINGS (Floor Embedded)	10OCT88	13OCT88	10NOV88	14NOV88	27
215H025A41	4	4	0	48	SANITARY FITTINGS (Floor Embedded)	13OCT88	17OCT88	15NOV88	19NOV88	28
215H024A41	4	4	0	49	SANITARY FITTINGS (Floor Embedded)	18OCT88	22OCT88	19NOV88	22NOV88	27
215H023A41	4	4	0	50	SANITARY FITTINGS (Floor Embedded)	22OCT88	25OCT88	23NOV88	27NOV88	28
215H022A41	4	4	0	51	SANITARY FITTINGS (Floor Embedded)	25OCT88	29OCT88	27NOV88	30NOV88	28
211H043A42	6	6	0	01	MARBLE STAIRS & SKIRTING	14APR88	20APR88	18APR88	24APR88	3
211H042A42	6	6	0	02	MARBLE STAIRS & SKIRTING	18APR88	24APR88	23APR88	28APR88	4
321H174A42	6	6	0	03	MARBLE STAIRS & SKIRTING	23APR88	28APR88	27APR88	3MAY88	4
321H175A42	6	6	0	04	MARBLE STAIRS & SKIRTING	26APR88	2MAY88	2MAY88	8MAY88	5
211H044A42	6	6	0	05	MARBLE STAIRS & SKIRTING	1MAY88	7MAY88	7MAY88	12MAY88	5
323H185A42	6	6	0	06	MARBLE STAIRS & SKIRTING	4MAY88	10MAY88	11MAY88	17MAY88	6
323H186A42	6	6	0	07	MARBLE STAIRS & SKIRTING	9MAY88	15MAY88	15MAY88	22MAY88	6
323H187A42	6	6	0	08	MARBLE STAIRS & SKIRTING	12MAY88	18MAY88	21MAY88	26MAY88	7
214H030A42	6	6	0	09	MARBLE STAIRS & SKIRTING	17MAY88	23MAY88	25MAY88	1JUN88	7
214H029A42	6	6	0	10	MARBLE STAIRS & SKIRTING	21MAY88	26MAY88	31MAY88	6JUN88	8

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 17

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
214H028A42	6	6	0	11	MARBLE STAIRS & SKIRTING	25MAY88	1JUN88	5JUN88	11JUN88	8
214H031A42	6	6	0	12	MARBLE STAIRS & SKIRTING	29MAY88	5JUN88	9JUN88	15JUN88	9
216H020A42	6	6	0	13	MARBLE STAIRS & SKIRTING	4JUN88	9JUN88	14JUN88	20JUN88	9
216H019A42	6	6	0	14	MARBLE STAIRS & SKIRTING	7JUN88	13JUN88	19JUN88	25JUN88	10
216H018A42	6	6	0	15	MARBLE STAIRS & SKIRTING	12JUN88	18JUN88	23JUN88	29JUN88	10
218H015A42	6	6	0	16	MARBLE STAIRS & SKIRTING	15JUN88	21JUN88	28JUN88	4JUL88	11
218H014A42	6	6	0	17	MARBLE STAIRS & SKIRTING	20JUN88	26JUN88	3JUL88	9JUL88	11
218H013A42	6	6	0	18	MARBLE STAIRS & SKIRTING	23JUN88	29JUN88	7JUL88	13JUL88	12
222H188A42	6	6	0	19	MARBLE STAIRS & SKIRTING	28JUN88	4JUL88	12JUL88	18JUL88	12
222H189A42	6	6	0	20	MARBLE STAIRS & SKIRTING	2JUL88	7JUL88	17JUL88	23JUL88	13
222H190A42	6	6	0	21	MARBLE STAIRS & SKIRTING	6JUL88	12JUL88	21JUL88	27JUL88	13
216H021A42	6	6	0	22	MARBLE STAIRS & SKIRTING	10JUL88	16JUL88	26JUL88	1AUG88	14
219H010A42	6	6	0	23	MARBLE STAIRS & SKIRTING	14JUL88	20JUL88	31JUL88	7AUG88	14
220H007A42	6	6	0	24	MARBLE STAIRS & SKIRTING	18JUL88	24JUL88	6AUG88	11AUG88	15
213H035A42	6	6	0	25	MARBLE STAIRS & SKIRTING	23JUL88	28JUL88	10AUG88	16AUG88	15
213H036A42	6	6	0	26	MARBLE STAIRS & SKIRTING	26JUL88	1AUG88	15AUG88	21AUG88	16
213H037A42	6	6	0	27	MARBLE STAIRS & SKIRTING	31JUL88	7AUG88	20AUG88	27AUG88	16
213H032A42	6	6	0	28	MARBLE STAIRS & SKIRTING	3AUG88	10AUG88	24AUG88	31AUG88	17
213H033A42	6	6	0	29	MARBLE STAIRS & SKIRTING	9AUG88	15AUG88	30AUG88	5SEP88	17
213H034A42	6	6	0	30	MARBLE STAIRS & SKIRTING	13AUG88	18AUG88	4SEP88	10SEP88	18
219H011A42	6	6	0	31	MARBLE STAIRS & SKIRTING	17AUG88	23AUG88	8SEP88	14SEP88	18
219H012A42	6	6	0	32	MARBLE STAIRS & SKIRTING	21AUG88	28AUG88	13SEP88	19SEP88	19
217H017A42	6	6	0	33	MARBLE STAIRS & SKIRTING	27AUG88	1SEP88	18SEP88	24SEP88	19
217H016A42	6	6	0	34	MARBLE STAIRS & SKIRTING	30AUG88	5SEP88	22SEP88	28SEP88	20
221H003A42	6	6	0	35	MARBLE STAIRS & SKIRTING	4SEP88	10SEP88	27SEP88	3OCT88	20
221H002A42	6	6	0	36	MARBLE STAIRS & SKIRTING	7SEP88	13SEP88	2OCT88	8OCT88	21
221H001A42	6	6	0	37	MARBLE STAIRS & SKIRTING	12SEP88	18SEP88	6OCT88	12OCT88	21
220H009A42	6	6	0	38	MARBLE STAIRS & SKIRTING	15SEP88	21SEP88	11OCT88	17OCT88	22
220H008A42	6	6	0	39	MARBLE STAIRS & SKIRTING	20SEP88	26SEP88	16OCT88	22OCT88	22
220H006A42	6	6	0	40	MARBLE STAIRS & SKIRTING	24SEP88	29SEP88	20OCT88	26OCT88	23
220H005A42	6	6	0	41	MARBLE STAIRS & SKIRTING	28SEP88	4OCT88	25OCT88	31OCT88	23
220H004A42	6	6	0	42	MARBLE STAIRS & SKIRTING	2OCT88	8OCT88	30OCT88	5NOV88	24
220H176A42	6	6	0	43	MARBLE STAIRS & SKIRTING	6OCT88	12OCT88	3NOV88	9NOV88	24
220H177A42	6	6	0	44	MARBLE STAIRS & SKIRTING	10OCT88	16OCT88	8NOV88	14NOV88	25
220H178A42	6	6	0	45	MARBLE STAIRS & SKIRTING	15OCT88	20OCT88	12NOV88	17NOV88	24
215H027A42	6	6	0	46	MARBLE STAIRS & SKIRTING	18OCT88	24OCT88	15NOV88	21NOV88	24
215H026A42	6	6	0	47	MARBLE STAIRS & SKIRTING	23OCT88	29OCT88	19NOV88	24NOV88	23
215H025A42	6	6	0	48	MARBLE STAIRS & SKIRTING	26OCT88	1NOV88	22NOV88	28NOV88	23
215H024A42	6	6	0	49	MARBLE STAIRS & SKIRTING	31OCT88	6NOV88	26NOV88	1DEC88	22
215H023A42	6	6	0	50	MARBLE STAIRS & SKIRTING	3NOV88	9NOV88	29NOV88	5DEC88	22
215H022A42	6	6	0	51	MARBLE STAIRS & SKIRTING	8NOV88	14NOV88	3DEC88	8DEC88	21
211H043A43	4	4	0	01	JOINARY WORKS	14APR88	18APR88	19APR88	23APR88	4
211H042A43	4	4	0	02	JOINARY WORKS	19APR88	23APR88	24APR88	27APR88	4
211H174A43	4	4	0	03	JOINARY WORKS	24APR88	27APR88	28APR88	2MAY88	4
211H175A43	4	4	0	04	JOINARY WORKS	28APR88	2MAY88	3MAY88	7MAY88	4
211H044A43	4	4	0	05	JOINARY WORKS	3MAY88	7MAY88	8MAY88	11MAY88	4
223H185A43	4	4	0	06	JOINARY WORKS	8MAY88	11MAY88	12MAY88	16MAY88	4
223H186A43	4	4	0	07	JOINARY WORKS	12MAY88	16MAY88	17MAY88	21MAY88	4
223H187A43	4	4	0	08	JOINARY WORKS	17MAY88	21MAY88	22MAY88	25MAY88	4
214H030A43	4	4	0	09	JOINARY WORKS	22MAY88	25MAY88	26MAY88	31MAY88	4
214H029A43	4	4	0	10	JOINARY WORKS	26MAY88	31MAY88	1JUN88	5JUN88	4
214H028A43	4	4	0	11	JOINARY WORKS	1JUN88	5JUN88	6JUN88	9JUN88	4
214H031A43	4	4	0	12	JOINARY WORKS	6JUN88	9JUN88	11JUN88	14JUN88	4
216H020A43	4	4	0	13	JOINARY WORKS	11JUN88	14JUN88	15JUN88	19JUN88	4
216H019A43	4	4	0	14	JOINARY WORKS	15JUN88	19JUN88	20JUN88	23JUN88	4
216H018A43	4	4	0	15	JOINARY WORKS	20JUN88	23JUN88	25JUN88	28JUN88	4
218H015A43	4	4	0	16	JOINARY WORKS	25JUN88	28JUN88	29JUN88	3JUL88	4
218H014A43	4	4	0	17	JOINARY WORKS	29JUN88	3JUL88	4JUL88	7JUL88	4
218H013A43	4	4	0	18	JOINARY WORKS	4JUL88	7JUL88	9JUL88	12JUL88	4
222H188A43	4	4	0	19	JOINARY WORKS	9JUL88	12JUL88	13JUL88	17JUL88	4
222H189A43	4	4	0	20	JOINARY WORKS	13JUL88	17JUL88	18JUL88	21JUL88	4
222H190A43	4	4	0	21	JOINARY WORKS	18JUL88	21JUL88	23JUL88	26JUL88	4
216H021A43	4	4	0	22	JOINARY WORKS	23JUL88	26JUL88	27JUL88	31JUL88	4
219H010A43	4	4	0	23	JOINARY WORKS	27JUL88	31JUL88	1AUG88	6AUG88	4
220H007A43	4	4	0	24	JOINARY WORKS	1AUG88	6AUG88	7AUG88	10AUG88	4
213H035A43	4	4	0	25	JOINARY WORKS	7AUG88	10AUG88	11AUG88	15AUG88	4
213H036A43	4	4	0	26	JOINARY WORKS	11AUG88	15AUG88	16AUG88	20AUG88	4
213H037A43	4	4	0	27	JOINARY WORKS	16AUG88	20AUG88	21AUG88	24AUG88	4
213H032A43	4	4	0	28	JOINARY WORKS	21AUG88	24AUG88	27AUG88	30AUG88	4
213H033A43	4	4	0	29	JOINARY WORKS	27AUG88	30AUG88	31AUG88	4SEP88	4
213H034A43	4	4	0	30	JOINARY WORKS	11AUG88	4SEP88	5SEP88	8SEP88	4
219H011A43	4	4	0	31	JOINARY WORKS	5SEP88	8SEP88	10SEP88	13SEP88	4
219H012A43	4	4	0	32	JOINARY WORKS	10SEP88	13SEP88	14SEP88	18SEP88	4
217H017A43	4	4	0	33	JOINARY WORKS	14SEP88	18SEP88	19SEP88	22SEP88	4
217H016A43	4	4	0	34	JOINARY WORKS	19SEP88	22SEP88	24SEP88	27SEP88	4
221H003A43	4	4	0	35	JOINARY WORKS	24SEP88	27SEP88	28SEP88	3OCT88	4
221H002A43	4	4	0	36	JOINARY WORKS	28SEP88	3OCT88	3OCT88	6OCT88	4
221H001A43	4	4	0	37	JOINARY WORKS	3OCT88	6OCT88	8OCT88	11OCT88	4
220H009A43	4	4	0	38	JOINARY WORKS	8OCT88	11OCT88	12OCT88	16OCT88	4
220H008A43	4	4	0	39	JOINARY WORKS	12OCT88	16OCT88	17OCT88	20OCT88	4
220H006A43	4	4	0	40	JOINARY WORKS	17OCT88	20OCT88	22OCT88	25OCT88	4
220H005A43	4	4	0	41	JOINARY WORKS	22OCT88	25OCT88	26OCT88	30OCT88	4
220H004A43	4	4	0	42	JOINARY WORKS	26OCT88	30OCT88	31OCT88	3NOV88	4
220H176A43	4	4	0	43	JOINARY WORKS	31OCT88	3NOV88	5NOV88	8NOV88	4
220H177A43	4	4	0	44	JOINARY WORKS	5NOV88	8NOV88	9NOV88	12NOV88	4
220H178A43	4	4	0	45	JOINARY WORKS	9NOV88	13NOV88	14NOV88	17NOV88	4
215H027A43	4	4	0	46	JOINARY WORKS	14NOV88	17NOV88	18NOV88	22NOV88	4
215H026A43	4	4	0	47	JOINARY WORKS	19NOV88	22NOV88	23NOV88	27NOV88	4
215H025A43	4	4	0	48	JOINARY WORKS	23NOV88	27NOV88	28NOV88	1DEC88	4
215H024A43	4	4	0	49	JOINARY WORKS	28NOV88	1DEC88	3DEC88	6DEC88	4
215H023A43	4	4	0	50	JOINARY WORKS	3DEC88	6DEC88	7DEC88	11DEC88	4
215H022A43	4	4	0	51	JOINARY WORKS	7DEC88	11DEC88	12DEC88	15DEC88	4
211H043A44	6	6	0	01	WATERPROOFING IN WET FLOOR AREAS	16APR88	21APR88	17APR88	23APR88	1
211H042A44	6	6	0	02	WATERPROOFING IN WET FLOOR AREAS	19APR88	25APR88	21APR88	27APR88	2
211H174A44	6	6	0	03	WATERPROOFING IN WET FLOOR AREAS	23APR88	28APR88	26APR88	2MAY88	3
211H175A44	6	6	0	04	WATERPROOFING IN WET FLOOR AREAS	27APR88	3MAY88	1MAY88	7MAY88	3

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decal Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 18

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
211H044A44	6	6	0	05	WATERPROOFING IN WET FLOOR AREAS	1MAY88	7MAY88	5MAY88	11MAY88	4
323H185A44	6	6	0	06	WATERPROOFING IN WET FLOOR AREAS	4MAY88	10MAY88	10MAY88	16MAY88	5
323H186A44	6	6	0	07	WATERPROOFING IN WET FLOOR AREAS	9MAY88	15MAY88	15MAY88	21MAY88	5
323H187A44	6	6	0	08	WATERPROOFING IN WET FLOOR AREAS	12MAY88	18MAY88	19MAY88	25MAY88	6
214H020A44	6	6	0	09	WATERPROOFING IN WET FLOOR AREAS	16MAY88	22MAY88	24MAY88	31MAY88	7
214H022A44	6	6	0	10	WATERPROOFING IN WET FLOOR AREAS	21MAY88	26MAY88	29MAY88	5JUN88	7
214H023A44	6	6	0	11	WATERPROOFING IN WET FLOOR AREAS	24MAY88	31MAY88	4JUN88	9JUN88	8
214H031A44	6	6	0	12	WATERPROOFING IN WET FLOOR AREAS	28MAY88	4JUN88	8JUN88	14JUN88	9
216H020A44	6	6	0	13	WATERPROOFING IN WET FLOOR AREAS	2JUN88	8JUN88	13JUN88	19JUN88	9
216H019A44	6	6	0	14	WATERPROOFING IN WET FLOOR AREAS	6JUN88	12JUN88	18JUN88	23JUN88	10
216H018A44	6	6	0	15	WATERPROOFING IN WET FLOOR AREAS	9JUN88	15JUN88	23JUN88	28JUN88	11
218H015A44	6	6	0	16	WATERPROOFING IN WET FLOOR AREAS	14JUN88	20JUN88	27JUN88	3JUL88	11
218H014A44	6	6	0	17	WATERPROOFING IN WET FLOOR AREAS	18JUN88	23JUN88	2JUL88	7JUL88	12
218H013A44	6	6	0	18	WATERPROOFING IN WET FLOOR AREAS	21JUN88	27JUN88	6JUL88	12JUL88	13
322H188A44	6	6	0	19	WATERPROOFING IN WET FLOOR AREAS	26JUN88	2JUL88	11JUL88	17JUL88	13
322H189A44	6	6	0	20	WATERPROOFING IN WET FLOOR AREAS	29JUN88	5JUL88	16JUL88	21JUL88	14
322H190A44	6	6	0	21	WATERPROOFING IN WET FLOOR AREAS	3JUL88	9JUL88	20JUL88	26JUL88	15
216H021A44	6	6	0	22	WATERPROOFING IN WET FLOOR AREAS	7JUL88	13JUL88	25JUL88	31JUL88	15
219H010A44	6	6	0	23	WATERPROOFING IN WET FLOOR AREAS	11JUL88	17JUL88	30JUL88	6AUG88	16
220H007A44	6	6	0	24	WATERPROOFING IN WET FLOOR AREAS	14JUL88	20JUL88	3AUG88	10AUG88	17
213H035A44	6	6	0	25	WATERPROOFING IN WET FLOOR AREAS	19JUL88	25JUL88	9AUG88	15AUG88	17
213H036A44	6	6	0	26	WATERPROOFING IN WET FLOOR AREAS	23JUL88	28JUL88	14AUG88	20AUG88	18
213H037A44	6	6	0	27	WATERPROOFING IN WET FLOOR AREAS	26JUL88	1AUG88	18AUG88	24AUG88	19
213H032A44	6	6	0	28	WATERPROOFING IN WET FLOOR AREAS	31JUL88	7AUG88	23AUG88	30AUG88	19
213H033A44	6	6	0	29	WATERPROOFING IN WET FLOOR AREAS	3AUG88	10AUG88	29AUG88	4SEP88	20
213H034A44	6	6	0	30	WATERPROOFING IN WET FLOOR AREAS	8AUG88	14AUG88	3SEP88	8SEP88	21
219H011A44	6	6	0	31	WATERPROOFING IN WET FLOOR AREAS	13AUG88	18AUG88	7SEP88	13SEP88	21
219H012A44	6	6	0	32	WATERPROOFING IN WET FLOOR AREAS	16AUG88	22AUG88	12SEP88	18SEP88	22
217H017A44	6	6	0	33	WATERPROOFING IN WET FLOOR AREAS	20AUG88	27AUG88	17SEP88	22SEP88	23
217H016A44	6	6	0	34	WATERPROOFING IN WET FLOOR AREAS	24AUG88	31AUG88	21SEP88	27SEP88	23
221H003A44	6	6	0	35	WATERPROOFING IN WET FLOOR AREAS	29AUG88	4SEP88	26SEP88	2OCT88	24
221H002A44	6	6	0	36	WATERPROOFING IN WET FLOOR AREAS	1SEP88	7SEP88	1OCT88	6OCT88	25
221H001A44	6	6	0	37	WATERPROOFING IN WET FLOOR AREAS	6SEP88	12SEP88	5OCT88	11OCT88	25
220H009A44	6	6	0	38	WATERPROOFING IN WET FLOOR AREAS	10SEP88	15SEP88	10OCT88	16OCT88	26
220H008A44	6	6	0	39	WATERPROOFING IN WET FLOOR AREAS	13SEP88	19SEP88	13OCT88	19OCT88	26
220H006A44	6	6	0	40	WATERPROOFING IN WET FLOOR AREAS	18SEP88	24SEP88	18OCT88	24OCT88	26
220H005A44	6	6	0	41	WATERPROOFING IN WET FLOOR AREAS	21SEP88	27SEP88	22OCT88	27OCT88	26
220H004A44	6	6	0	42	WATERPROOFING IN WET FLOOR AREAS	25SEP88	1OCT88	26OCT88	1NOV88	27
320H176A44	6	6	0	43	WATERPROOFING IN WET FLOOR AREAS	29SEP88	5OCT88	30OCT88	5NOV88	26
320H177A44	6	6	0	44	WATERPROOFING IN WET FLOOR AREAS	3OCT88	9OCT88	3NOV88	9NOV88	27
320H178A44	6	6	0	45	WATERPROOFING IN WET FLOOR AREAS	6OCT88	12OCT88	7NOV88	13NOV88	27
215H027A44	6	6	0	46	WATERPROOFING IN WET FLOOR AREAS	11OCT88	17OCT88	12NOV88	17NOV88	27
215H026A44	6	6	0	47	WATERPROOFING IN WET FLOOR AREAS	15OCT88	20OCT88	15NOV88	21NOV88	27
215H025A44	6	6	0	48	WATERPROOFING IN WET FLOOR AREAS	18OCT88	24OCT88	20NOV88	26NOV88	28
215H024A44	6	6	0	49	WATERPROOFING IN WET FLOOR AREAS	23OCT88	29OCT88	23NOV88	29NOV88	27
215H023A44	6	6	0	50	WATERPROOFING IN WET FLOOR AREAS	26OCT88	1NOV88	28NOV88	4DEC88	28
215H022A44	6	6	0	51	WATERPROOFING IN WET FLOOR AREAS	30OCT88	5NOV88	1DEC88	7DEC88	28
211H043A45	2	2	0	01	ROOF EMBEDDED DRAINAGE PIPES	24APR88	25APR88	7MAY88	8MAY88	11
211H042A45	2	2	0	02	ROOF EMBEDDED DRAINAGE PIPES	26APR88	27APR88	11MAY88	12MAY88	13
321H174A45	2	2	0	03	ROOF EMBEDDED DRAINAGE PIPES	1MAY88	2MAY88	16MAY88	17MAY88	13
321H175A45	2	2	0	04	ROOF EMBEDDED DRAINAGE PIPES	5MAY88	7MAY88	21MAY88	22MAY88	13
211H041A45	2	2	0	05	ROOF EMBEDDED DRAINAGE PIPES	8MAY88	9MAY88	25MAY88	26MAY88	15
323H185A45	2	2	0	06	ROOF EMBEDDED DRAINAGE PIPES	12MAY88	14MAY88	31MAY88	1JUN88	15
323H186A45	2	2	0	07	ROOF EMBEDDED DRAINAGE PIPES	17MAY88	18MAY88	5JUN88	6JUN88	15
323H187A45	2	2	0	08	ROOF EMBEDDED DRAINAGE PIPES	19MAY88	21MAY88	9JUN88	11JUN88	17
214H030A45	2	2	0	09	ROOF EMBEDDED DRAINAGE PIPES	24MAY88	25MAY88	14JUN88	15JUN88	17
214H029A45	2	2	0	10	ROOF EMBEDDED DRAINAGE PIPES	29MAY88	31MAY88	19JUN88	20JUN88	17
214H028A45	2	2	0	11	ROOF EMBEDDED DRAINAGE PIPES	1JUN88	2JUN88	23JUN88	25JUN88	19
214H031A45	2	2	0	12	ROOF EMBEDDED DRAINAGE PIPES	6JUN88	7JUN88	28JUN88	29JUN88	19
216H020A45	2	2	0	13	ROOF EMBEDDED DRAINAGE PIPES	11JUN88	12JUN88	3JUL88	4JUL88	19
216H019A45	2	2	0	14	ROOF EMBEDDED DRAINAGE PIPES	13JUN88	14JUN88	7JUL88	9JUL88	21
216H018A45	2	2	0	15	ROOF EMBEDDED DRAINAGE PIPES	18JUN88	19JUN88	12JUL88	13JUL88	21
218H015A45	2	2	0	16	ROOF EMBEDDED DRAINAGE PIPES	22JUN88	23JUN88	17JUL88	18JUL88	21
218H014A45	2	2	0	17	ROOF EMBEDDED DRAINAGE PIPES	25JUN88	26JUN88	21JUL88	23JUL88	23
218H013A45	2	2	0	18	ROOF EMBEDDED DRAINAGE PIPES	29JUN88	30JUN88	26JUL88	27JUL88	23
322H188A45	2	2	0	19	ROOF EMBEDDED DRAINAGE PIPES	4JUL88	5JUL88	31JUL88	1AUG88	23
322H189A45	2	2	0	20	ROOF EMBEDDED DRAINAGE PIPES	6JUL88	7JUL88	6AUG88	7AUG88	25
322H190A45	2	2	0	21	ROOF EMBEDDED DRAINAGE PIPES	11JUL88	12JUL88	10AUG88	11AUG88	25
216H021A45	2	2	0	22	ROOF EMBEDDED DRAINAGE PIPES	16JUL88	17JUL88	15AUG88	16AUG88	25
219H010A45	2	2	0	23	ROOF EMBEDDED DRAINAGE PIPES	19JUL88	19JUL88	20AUG88	21AUG88	27
220H007A45	2	2	0	24	ROOF EMBEDDED DRAINAGE PIPES	23JUL88	24JUL88	24AUG88	27AUG88	27
213H035A45	2	2	0	25	ROOF EMBEDDED DRAINAGE PIPES	27JUL88	28JUL88	30AUG88	31AUG88	27
213H036A45	2	2	0	26	ROOF EMBEDDED DRAINAGE PIPES	30JUL88	31JUL88	4SEP88	5SEP88	29
213H037A45	2	2	0	27	ROOF EMBEDDED DRAINAGE PIPES	3AUG88	6AUG88	8SEP88	10SEP88	29
213H032A45	2	2	0	28	ROOF EMBEDDED DRAINAGE PIPES	9AUG88	10AUG88	13SEP88	14SEP88	29
213H033A45	2	2	0	29	ROOF EMBEDDED DRAINAGE PIPES	11AUG88	13AUG88	18SEP88	19SEP88	31
213H034A45	2	2	0	30	ROOF EMBEDDED DRAINAGE PIPES	16AUG88	17AUG88	22SEP88	24SEP88	31
219H011A45	2	2	0	31	ROOF EMBEDDED DRAINAGE PIPES	21AUG88	22AUG88	27SEP88	28SEP88	31
219H012A45	2	2	0	32	ROOF EMBEDDED DRAINAGE PIPES	23AUG88	24AUG88	2OCT88	3OCT88	33
217H017A45	2	2	0	33	ROOF EMBEDDED DRAINAGE PIPES	29AUG88	30AUG88	6OCT88	8OCT88	33
217H016A45	2	2	0	34	ROOF EMBEDDED DRAINAGE PIPES	3SEP88	4SEP88	11OCT88	12OCT88	33
221H003A45	2	2	0	35	ROOF EMBEDDED DRAINAGE PIPES	5SEP88	6SEP88	15OCT88	16OCT88	34
221H002A45	2	2	0	36	ROOF EMBEDDED DRAINAGE PIPES	10SEP88	11SEP88	19OCT88	20OCT88	34
221H001A45	2	2	0	37	ROOF EMBEDDED DRAINAGE PIPES	14SEP88	15SEP88	23OCT88	24OCT88	34
220H009A45	2	2	0	38	ROOF EMBEDDED DRAINAGE PIPES	17SEP88	18SEP88	27OCT88	29OCT88	35
220H008A45	2	2	0	39	ROOF EMBEDDED DRAINAGE PIPES	21SEP88	22SEP88	31OCT88	1NOV88	34
220H006A45	2	2	0	40	ROOF EMBEDDED DRAINAGE PIPES	26SEP88	27SEP88	5NOV88	6NOV88	34
220H005A45	2	2	0	41	ROOF EMBEDDED DRAINAGE PIPES	28SEP88	29SEP88	8NOV88	9NOV88	35
220H004A45	2	2	0	42	ROOF EMBEDDED DRAINAGE PIPES	3OCT88	4OCT88	13NOV88	14NOV88	35
320H176A45	2	2	0	43	ROOF EMBEDDED DRAINAGE PIPES	8OCT88	9OCT88	16NOV88	17NOV88	34
320H177A45	2	2	0	44	ROOF EMBEDDED DRAINAGE PIPES	10OCT88	11OCT88	21NOV88	22NOV88	36
320H178A45	2	2	0	45	ROOF EMBEDDED DRAINAGE PIPES	15OCT88	16OCT88	24NOV88	26NOV88	35
215H027A45	2	2	0	46	ROOF EMBEDDED DRAINAGE PIPES	19OCT88	20OCT88	29NOV88	30NOV88	35
215H026A45	2	2	0	47	ROOF EMBEDDED DRAINAGE PIPES	22OCT88	23OCT88	3DEC88	4DEC88	36
215H025A45	2	2	0	48	ROOF EMBEDDED DRAINAGE PIPES	26OCT88	27OCT88	7DEC88	8DEC88	36
215H024A45	2	2	0	49	ROOF EMBEDDED DRAINAGE PIPES	31OCT88	1NOV88	11DEC88	12DEC88	35

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 19

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
215H023A45	2	2	0	50	ROOF EMBEDDED DRAINAGE PIPES	2NOV88	3NOV88	15DEC88	17DEC88	37
215H022A45	2	2	0	51	ROOF EMBEDDED DRAINAGE PIPES	7NOV88	8NOV88	19DEC88	20DEC88	36
211H043A46	7	7	0	01	BOUNDARY WALL REIN. CONC. COLUMNS	26APR88	3MAY88	28APR88	5MAY88	2
211H042A46	7	7	0	02	BOUNDARY WALL REIN. CONC. COLUMNS	26APR88	3MAY88	3MAY88	10MAY88	6
321H174A46	7	7	0	03	BOUNDARY WALL REIN. CONC. COLUMNS	4MAY88	11MAY88	7MAY88	14MAY88	2
321H175A46	7	7	0	04	BOUNDARY WALL REIN. CONC. COLUMNS	7MAY88	14MAY88	11MAY88	18MAY88	4
211H044A46	7	7	0	05	BOUNDARY WALL REIN. CONC. COLUMNS	12MAY88	19MAY88	15MAY88	22MAY88	2
323H185A46	7	7	0	06	BOUNDARY WALL REIN. CONC. COLUMNS	15MAY88	22MAY88	19MAY88	26MAY88	4
323H186A46	7	7	0	07	BOUNDARY WALL REIN. CONC. COLUMNS	21MAY88	28MAY88	23MAY88	31MAY88	2
321H187A46	7	7	0	08	BOUNDARY WALL REIN. CONC. COLUMNS	23MAY88	31MAY88	28MAY88	5JUN88	4
214H030A46	7	7	0	09	BOUNDARY WALL REIN. CONC. COLUMNS	29MAY88	6JUN88	1JUN88	8JUN88	2
214H029A46	7	7	0	10	BOUNDARY WALL REIN. CONC. COLUMNS	1JUN88	8JUN88	6JUN88	13JUN88	4
214H028A46	7	7	0	11	BOUNDARY WALL REIN. CONC. COLUMNS	7JUN88	14JUN88	9JUN88	16JUN88	2
214H031A46	7	7	0	12	BOUNDARY WALL REIN. CONC. COLUMNS	9JUN88	16JUN88	14JUN88	21JUN88	4
216H020A46	7	7	0	13	BOUNDARY WALL REIN. CONC. COLUMNS	15JUN88	22JUN88	18JUN88	25JUN88	2
216H019A46	7	7	0	14	BOUNDARY WALL REIN. CONC. COLUMNS	18JUN88	25JUN88	22JUN88	29JUN88	4
216H018A46	7	7	0	15	BOUNDARY WALL REIN. CONC. COLUMNS	23JUN88	30JUN88	26JUN88	3JUL88	2
218H015A46	7	7	0	16	BOUNDARY WALL REIN. CONC. COLUMNS	26JUN88	3JUL88	30JUN88	7JUL88	4
218H014A46	7	7	0	17	BOUNDARY WALL REIN. CONC. COLUMNS	2JUL88	9JUL88	4JUL88	11JUL88	2
218H013A46	7	7	0	18	BOUNDARY WALL REIN. CONC. COLUMNS	4JUL88	11JUL88	9JUL88	16JUL88	4
322H188A46	7	7	0	19	BOUNDARY WALL REIN. CONC. COLUMNS	10JUL88	17JUL88	12JUL88	19JUL88	2
322H189A46	7	7	0	20	BOUNDARY WALL REIN. CONC. COLUMNS	12JUL88	19JUL88	17JUL88	24JUL88	4
322H190A46	7	7	0	21	BOUNDARY WALL REIN. CONC. COLUMNS	18JUL88	25JUL88	20JUL88	27JUL88	2
216H021A46	7	7	0	22	BOUNDARY WALL REIN. CONC. COLUMNS	20JUL88	27JUL88	25JUL88	1AUG88	4
219H010A46	7	7	0	23	BOUNDARY WALL REIN. CONC. COLUMNS	26JUL88	2AUG88	28JUL88	6AUG88	2
220H007A46	7	7	0	24	BOUNDARY WALL REIN. CONC. COLUMNS	28JUL88	6AUG88	2AUG88	10AUG88	4
213H035A46	7	7	0	25	BOUNDARY WALL REIN. CONC. COLUMNS	3AUG88	11AUG88	7AUG88	14AUG88	2
213H036A46	7	7	0	26	BOUNDARY WALL REIN. CONC. COLUMNS	7AUG88	14AUG88	11AUG88	18AUG88	4
213H037A46	7	7	0	27	BOUNDARY WALL REIN. CONC. COLUMNS	13AUG88	20AUG88	15AUG88	22AUG88	2
213H032A46	7	7	0	28	BOUNDARY WALL REIN. CONC. COLUMNS	15AUG88	22AUG88	20AUG88	28AUG88	4
213H033A46	7	7	0	29	BOUNDARY WALL REIN. CONC. COLUMNS	21AUG88	29AUG88	23AUG88	31AUG88	2
213H034A46	7	7	0	30	BOUNDARY WALL REIN. CONC. COLUMNS	23AUG88	31AUG88	29AUG88	5SEP88	4
219H011A46	7	7	0	31	BOUNDARY WALL REIN. CONC. COLUMNS	30AUG88	6SEP88	1SEP88	8SEP88	2
219H012A46	7	7	0	32	BOUNDARY WALL REIN. CONC. COLUMNS	1SEP88	8SEP88	6SEP88	13SEP88	4
217H017A46	7	7	0	33	BOUNDARY WALL REIN. CONC. COLUMNS	7SEP88	14SEP88	10SEP88	17SEP88	2
217H016A46	7	7	0	34	BOUNDARY WALL REIN. CONC. COLUMNS	10SEP88	17SEP88	14SEP88	21SEP88	4
221H003A46	7	7	0	35	BOUNDARY WALL REIN. CONC. COLUMNS	15SEP88	22SEP88	18SEP88	25SEP88	2
221H002A46	7	7	0	36	BOUNDARY WALL REIN. CONC. COLUMNS	18SEP88	25SEP88	22SEP88	29SEP88	4
221H001A46	7	7	0	37	BOUNDARY WALL REIN. CONC. COLUMNS	24SEP88	1OCT88	26SEP88	3OCT88	2
220H009A46	7	7	0	38	BOUNDARY WALL REIN. CONC. COLUMNS	26SEP88	3OCT88	1OCT88	8OCT88	4
220H008A46	7	7	0	39	BOUNDARY WALL REIN. CONC. COLUMNS	2OCT88	9OCT88	4OCT88	11OCT88	2
220H006A46	7	7	0	40	BOUNDARY WALL REIN. CONC. COLUMNS	4OCT88	11OCT88	9OCT88	16OCT88	4
220H005A46	7	7	0	41	BOUNDARY WALL REIN. CONC. COLUMNS	10OCT88	17OCT88	12OCT88	19OCT88	2
220H004A46	7	7	0	42	BOUNDARY WALL REIN. CONC. COLUMNS	12OCT88	19OCT88	17OCT88	24OCT88	4
320H176A46	7	7	0	43	BOUNDARY WALL REIN. CONC. COLUMNS	18OCT88	25OCT88	20OCT88	27OCT88	2
320H177A46	7	7	0	44	BOUNDARY WALL REIN. CONC. COLUMNS	20OCT88	27OCT88	25OCT88	1NOV88	4
320H178A46	7	7	0	45	BOUNDARY WALL REIN. CONC. COLUMNS	26OCT88	2NOV88	29OCT88	5NOV88	2
215H027A46	7	7	0	46	BOUNDARY WALL REIN. CONC. COLUMNS	29OCT88	5NOV88	2NOV88	9NOV88	4
215H026A46	7	7	0	47	BOUNDARY WALL REIN. CONC. COLUMNS	3NOV88	10NOV88	6NOV88	13NOV88	2
215H025A46	7	7	0	48	BOUNDARY WALL REIN. CONC. COLUMNS	6NOV88	13NOV88	10NOV88	17NOV88	4
215H024A46	7	7	0	49	BOUNDARY WALL REIN. CONC. COLUMNS	12NOV88	19NOV88	16NOV88	23NOV88	2
215H023A46	7	7	0	50	BOUNDARY WALL REIN. CONC. COLUMNS	14NOV88	21NOV88	19NOV88	26NOV88	4
215H022A46	7	7	0	51	BOUNDARY WALL REIN. CONC. COLUMNS	20NOV88	27NOV88	25NOV88	2NOV88	2
211H043A47	3	3	0	01	PRECAST UNITS OF BOUNDARY WALL	26APR88	28APR88	14JUN88	16JUN88	41
211H042A47	3	3	0	02	PRECAST UNITS OF BOUNDARY WALL	30APR88	2MAY88	18JUN88	20JUN88	41
321H174A47	3	3	0	03	PRECAST UNITS OF BOUNDARY WALL	3MAY88	5MAY88	21JUN88	23JUN88	41
321H175A47	3	3	0	04	PRECAST UNITS OF BOUNDARY WALL	7MAY88	9MAY88	25JUN88	27JUN88	41
211H044A47	3	3	0	05	PRECAST UNITS OF BOUNDARY WALL	10MAY88	12MAY88	28JUN88	30JUN88	41
323H185A47	3	3	0	06	PRECAST UNITS OF BOUNDARY WALL	14MAY88	16MAY88	2JUL88	4JUL88	41
323H186A47	3	3	0	07	PRECAST UNITS OF BOUNDARY WALL	17MAY88	19MAY88	5JUL88	7JUL88	41
323H187A47	3	3	0	08	PRECAST UNITS OF BOUNDARY WALL	21MAY88	23MAY88	9JUL88	11JUL88	41
214H030A47	3	3	0	09	PRECAST UNITS OF BOUNDARY WALL	24MAY88	26MAY88	12JUL88	14JUL88	41
214H029A47	3	3	0	10	PRECAST UNITS OF BOUNDARY WALL	29MAY88	31MAY88	16JUL88	18JUL88	41
214H028A47	3	3	0	11	PRECAST UNITS OF BOUNDARY WALL	1JUN88	4JUN88	19JUL88	21JUL88	41
214H031A47	3	3	0	12	PRECAST UNITS OF BOUNDARY WALL	5JUN88	7JUN88	23JUL88	25JUL88	41
216H020A47	3	3	0	13	PRECAST UNITS OF BOUNDARY WALL	8JUN88	11JUN88	26JUL88	28JUL88	41
216H019A47	3	3	0	14	PRECAST UNITS OF BOUNDARY WALL	12JUN88	14JUN88	30JUL88	1AUG88	41
216H018A47	3	3	0	15	PRECAST UNITS OF BOUNDARY WALL	15JUN88	18JUN88	2AUG88	6AUG88	41
218H015A47	3	3	0	16	PRECAST UNITS OF BOUNDARY WALL	19JUN88	21JUN88	7AUG88	9AUG88	41
218H014A47	3	3	0	17	PRECAST UNITS OF BOUNDARY WALL	22JUN88	25JUN88	10AUG88	13AUG88	41
218H013A47	3	3	0	18	PRECAST UNITS OF BOUNDARY WALL	26JUN88	28JUN88	14AUG88	16AUG88	41
322H188A47	3	3	0	19	PRECAST UNITS OF BOUNDARY WALL	29JUN88	2JUL88	17AUG88	20AUG88	41
322H189A47	3	3	0	20	PRECAST UNITS OF BOUNDARY WALL	3JUL88	5JUL88	21AUG88	23AUG88	41
322H190A47	3	3	0	21	PRECAST UNITS OF BOUNDARY WALL	6JUL88	9JUL88	24AUG88	28AUG88	41
216H021A47	3	3	0	22	PRECAST UNITS OF BOUNDARY WALL	10JUL88	12JUL88	29AUG88	31AUG88	41
219H010A47	3	3	0	23	PRECAST UNITS OF BOUNDARY WALL	13JUL88	16JUL88	1SEP88	4SEP88	41
220H007A47	3	3	0	24	PRECAST UNITS OF BOUNDARY WALL	17JUL88	19JUL88	5SEP88	7SEP88	41
213H035A47	3	3	0	25	PRECAST UNITS OF BOUNDARY WALL	20JUL88	23JUL88	8SEP88	11SEP88	41
213H036A47	3	3	0	26	PRECAST UNITS OF BOUNDARY WALL	24JUL88	26JUL88	12SEP88	14SEP88	41
213H037A47	3	3	0	27	PRECAST UNITS OF BOUNDARY WALL	27JUL88	30JUL88	15SEP88	18SEP88	41
213H032A47	3	3	0	28	PRECAST UNITS OF BOUNDARY WALL	31JUL88	2AUG88	19SEP88	21SEP88	41
213H033A47	3	3	0	29	PRECAST UNITS OF BOUNDARY WALL	3AUG88	7AUG88	22SEP88	25SEP88	41
213H034A47	3	3	0	30	PRECAST UNITS OF BOUNDARY WALL	8AUG88	10AUG88	26SEP88	28SEP88	41
219H011A47	3	3	0	31	PRECAST UNITS OF BOUNDARY WALL	13AUG88	15AUG88	29SEP88	3OCT88	40
219H012A47	3	3	0	32	PRECAST UNITS OF BOUNDARY WALL	16AUG88	18AUG88	3OCT88	5OCT88	40
217H017A47	3	3	0	33	PRECAST UNITS OF BOUNDARY WALL	21AUG88	23AUG88	6OCT88	9OCT88	39
217H016A47	3	3	0	34	PRECAST UNITS OF BOUNDARY WALL	24AUG88	28AUG88	10OCT88	12OCT88	39
221H003A47	3	3	0	35	PRECAST UNITS OF BOUNDARY WALL	30AUG88	1SEP88	13OCT88	15OCT88	38
221H002A47	3	3	0	36	PRECAST UNITS OF BOUNDARY WALL	3SEP88	5SEP88	17OCT88	19OCT88	38
221H001A47	3	3	0	37	PRECAST UNITS OF BOUNDARY WALL	7SEP88	10SEP88	20OCT88	23OCT88	37
220H009A47	3	3	0	38	PRECAST UNITS OF BOUNDARY WALL	11SEP88	13SEP88	24OCT88	26OCT88	37
220H008A47	3	3	0	39	PRECAST UNITS OF BOUNDARY WALL	15SEP88	18SEP88	27OCT88	30OCT88	36
220H006A47	3	3	0	40	PRECAST UNITS OF BOUNDARY WALL	19SEP88	21SEP88	31OCT88	2NOV88	36
220H005A47	3	3	0	41	PRECAST UNITS OF BOUNDARY WALL	24SEP88	26SEP88	3NOV88	6NOV88	35
220H004A47	3	3	0	42	PRECAST UNITS OF BOUNDARY WALL	27SEP88	29SEP88	7NOV88	9NOV88	35
320H176A47	3	3	0	43	PRECAST UNITS OF BOUNDARY WALL	2OCT88	4OCT88	10NOV88	13NOV88	34

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31
Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 20

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
320H177A47	3	3	0	44	PRECAST UNITS OF BOUNDARY WALL	50CT88	80CT88	14NOV88	16NOV88	34
320H178A47	3	3	0	45	PRECAST UNITS OF BOUNDARY WALL	100CT88	120CT88	17NOV88	20NOV88	33
321H027A47	3	3	0	46	PRECAST UNITS OF BOUNDARY WALL	130CT88	160CT88	21NOV88	23NOV88	33
321H026A47	3	3	0	47	PRECAST UNITS OF BOUNDARY WALL	180CT88	200CT88	24NOV88	27NOV88	32
321H025A47	3	3	0	48	PRECAST UNITS OF BOUNDARY WALL	220CT88	240CT88	28NOV88	30NOV88	32
321H024A47	3	3	0	49	PRECAST UNITS OF BOUNDARY WALL	260CT88	290CT88	1DEC88	4DEC88	31
321H023A47	3	3	0	50	PRECAST UNITS OF BOUNDARY WALL	300CT88	1NOV88	5DEC88	7DEC88	31
321H022A47	3	3	0	51	PRECAST UNITS OF BOUNDARY WALL	3NOV88	6NOV88	8DEC88	11DEC88	30
321H043A48	6	6	0	01	YARD PLUMBING PRECAST MANHOLE	26APR88	2MAY88	9MAY88	15MAY88	11
321H042A48	6	6	0	02	YARD PLUMBING PRECAST MANHOLE	26APR88	2MAY88	12MAY88	18MAY88	14
321H174A48	6	6	0	03	YARD PLUMBING PRECAST MANHOLE	3MAY88	9MAY88	16MAY88	12JUN88	11
321H175A48	6	6	0	04	YARD PLUMBING PRECAST MANHOLE	7MAY88	12MAY88	19MAY88	25MAY88	11
321H044A48	6	6	0	05	YARD PLUMBING PRECAST MANHOLE	10MAY88	16MAY88	23MAY88	29MAY88	11
323H185A48	6	6	0	06	YARD PLUMBING PRECAST MANHOLE	14MAY88	19MAY88	26MAY88	2JUN88	11
323H186A48	6	6	0	07	YARD PLUMBING PRECAST MANHOLE	17MAY88	23MAY88	31MAY88	6JUN88	11
323H187A48	6	6	0	08	YARD PLUMBING PRECAST MANHOLE	21MAY88	26MAY88	4JUN88	9JUN88	11
321H030A48	6	6	0	09	YARD PLUMBING PRECAST MANHOLE	24MAY88	31MAY88	7JUN88	13JUN88	11
321H029A48	6	6	0	10	YARD PLUMBING PRECAST MANHOLE	29MAY88	4JUN88	11JUN88	16JUN88	11
321H028A48	6	6	0	11	YARD PLUMBING PRECAST MANHOLE	1JUN88	7JUN88	14JUN88	20JUN88	11
321H031A48	6	6	0	12	YARD PLUMBING PRECAST MANHOLE	5JUN88	11JUN88	18JUN88	23JUN88	11
321H020A48	6	6	0	13	YARD PLUMBING PRECAST MANHOLE	8JUN88	14JUN88	21JUN88	27JUN88	11
321H019A48	6	6	0	14	YARD PLUMBING PRECAST MANHOLE	12JUN88	18JUN88	25JUN88	30JUN88	11
321H018A48	6	6	0	15	YARD PLUMBING PRECAST MANHOLE	15JUN88	21JUN88	28JUN88	4JUL88	11
321H015A48	6	6	0	16	YARD PLUMBING PRECAST MANHOLE	19JUN88	25JUN88	2JUL88	7JUL88	11
321H014A48	6	6	0	17	YARD PLUMBING PRECAST MANHOLE	22JUN88	28JUN88	5JUL88	11JUL88	11
321H013A48	6	6	0	18	YARD PLUMBING PRECAST MANHOLE	26JUN88	2JUL88	9JUL88	14JUL88	11
322H188A48	6	6	0	19	YARD PLUMBING PRECAST MANHOLE	29JUN88	5JUL88	12JUL88	18JUL88	11
322H189A48	6	6	0	20	YARD PLUMBING PRECAST MANHOLE	3JUL88	9JUL88	16JUL88	21JUL88	11
322H190A48	6	6	0	21	YARD PLUMBING PRECAST MANHOLE	6JUL88	12JUL88	19JUL88	25JUL88	11
321H021A48	6	6	0	22	YARD PLUMBING PRECAST MANHOLE	10JUL88	16JUL88	23JUL88	28JUL88	11
321H010A48	6	6	0	23	YARD PLUMBING PRECAST MANHOLE	13JUL88	19JUL88	26JUL88	1AUG88	11
320H007A48	6	6	0	24	YARD PLUMBING PRECAST MANHOLE	17JUL88	23JUL88	30JUL88	6AUG88	11
321H035A48	6	6	0	25	YARD PLUMBING PRECAST MANHOLE	20JUL88	26JUL88	2AUG88	9AUG88	11
321H036A48	6	6	0	26	YARD PLUMBING PRECAST MANHOLE	24JUL88	30JUL88	7AUG88	13AUG88	11
321H037A48	6	6	0	27	YARD PLUMBING PRECAST MANHOLE	27JUL88	2AUG88	10AUG88	16AUG88	11
321H032A48	6	6	0	28	YARD PLUMBING PRECAST MANHOLE	31JUL88	7AUG88	14AUG88	20AUG88	11
321H033A48	6	6	0	29	YARD PLUMBING PRECAST MANHOLE	3AUG88	10AUG88	17AUG88	23AUG88	11
321H034A48	6	6	0	30	YARD PLUMBING PRECAST MANHOLE	8AUG88	14AUG88	21AUG88	28AUG88	11
321H011A48	6	6	0	31	YARD PLUMBING PRECAST MANHOLE	13AUG88	18AUG88	24AUG88	31AUG88	10
321H012A48	6	6	0	32	YARD PLUMBING PRECAST MANHOLE	15AUG88	21AUG88	29AUG88	4SEP88	11
321H017A48	6	6	0	33	YARD PLUMBING PRECAST MANHOLE	21AUG88	28AUG88	1SEP88	7SEP88	9
321H016A48	6	6	0	34	YARD PLUMBING PRECAST MANHOLE	22AUG88	29AUG88	5SEP88	11SEP88	11
321H003A48	6	6	0	35	YARD PLUMBING PRECAST MANHOLE	30AUG88	5SEP88	8SEP88	14SEP88	8
321H002A48	6	6	0	36	YARD PLUMBING PRECAST MANHOLE	30AUG88	5SEP88	12SEP88	18SEP88	11
321H001A48	6	6	0	37	YARD PLUMBING PRECAST MANHOLE	7SEP88	13SEP88	15SEP88	21SEP88	7
320H009A48	6	6	0	38	YARD PLUMBING PRECAST MANHOLE	7SEP88	13SEP88	19SEP88	25SEP88	10
320H008A48	6	6	0	39	YARD PLUMBING PRECAST MANHOLE	15SEP88	21SEP88	22SEP88	28SEP88	6
320H006A48	6	6	0	40	YARD PLUMBING PRECAST MANHOLE	15SEP88	21SEP88	28SEP88	2OCT88	9
320H005A48	6	6	0	41	YARD PLUMBING PRECAST MANHOLE	24SEP88	29SEP88	29SEP88	5OCT88	5
320H004A48	6	6	0	42	YARD PLUMBING PRECAST MANHOLE	24SEP88	29SEP88	3OCT88	9OCT88	8
320H176A48	6	6	0	43	YARD PLUMBING PRECAST MANHOLE	2OCT88	8OCT88	6OCT88	12OCT88	4
320H177A48	6	6	0	44	YARD PLUMBING PRECAST MANHOLE	2OCT88	8OCT88	10OCT88	16OCT88	7
320H178A48	6	6	0	45	YARD PLUMBING PRECAST MANHOLE	10OCT88	16OCT88	13OCT88	19OCT88	3
321H027A48	6	6	0	46	YARD PLUMBING PRECAST MANHOLE	11OCT88	17OCT88	17OCT88	23OCT88	5
321H026A48	6	6	0	47	YARD PLUMBING PRECAST MANHOLE	18OCT88	24OCT88	20OCT88	26OCT88	2
321H025A48	6	6	0	48	YARD PLUMBING PRECAST MANHOLE	18OCT88	24OCT88	24OCT88	30OCT88	5
321H024A48	6	6	0	49	YARD PLUMBING PRECAST MANHOLE	26OCT88	1NOV88	27OCT88	2NOV88	1
321H023A48	6	6	0	50	YARD PLUMBING PRECAST MANHOLE	27OCT88	2NOV88	31OCT88	6NOV88	3
321H022A48	6	6	0	51	YARD PLUMBING PRECAST MANHOLE	3NOV88	9NOV88	3NOV88	9NOV88	0
321H043A49	10	10	0	01	ROOF THERMAL INSULATION & TILING	26APR88	9MAY88	9MAY88	19MAY88	11
321H042A49	10	10	0	02	ROOF THERMAL INSULATION & TILING	28APR88	9MAY88	14MAY88	24MAY88	13
321H174A49	10	10	0	03	ROOF THERMAL INSULATION & TILING	3MAY88	14MAY88	18MAY88	29MAY88	13
321H175A49	10	10	0	04	ROOF THERMAL INSULATION & TILING	9MAY88	18MAY88	23MAY88	4JUN88	13
321H044A49	10	10	0	05	ROOF THERMAL INSULATION & TILING	10MAY88	21MAY88	28MAY88	8JUN88	15
323H185A49	10	10	0	06	ROOF THERMAL INSULATION & TILING	15MAY88	25MAY88	2JUN88	12JUN88	15
323H186A49	10	10	0	07	ROOF THERMAL INSULATION & TILING	19MAY88	31MAY88	7JUN88	18JUN88	15
323H187A49	10	10	0	08	ROOF THERMAL INSULATION & TILING	22MAY88	2JUN88	12JUN88	22JUN88	17
321H030A49	10	10	0	09	ROOF THERMAL INSULATION & TILING	26MAY88	7JUN88	16JUN88	27JUN88	17
321H029A49	10	10	0	10	ROOF THERMAL INSULATION & TILING	1JUN88	12JUN88	21JUN88	2JUL88	17
321H028A49	10	10	0	11	ROOF THERMAL INSULATION & TILING	4JUN88	14JUN88	26JUN88	6JUL88	19
321H031A49	10	10	0	12	ROOF THERMAL INSULATION & TILING	8JUN88	19JUN88	30JUN88	11JUL88	19
321H020A49	10	10	0	13	ROOF THERMAL INSULATION & TILING	13JUN88	23JUN88	5JUL88	16JUL88	19
321H019A49	10	10	0	14	ROOF THERMAL INSULATION & TILING	15JUN88	26JUN88	10JUL88	20JUL88	21
321H018A49	10	10	0	15	ROOF THERMAL INSULATION & TILING	20JUN88	30JUN88	14JUL88	25JUL88	21
321H015A49	10	10	0	16	ROOF THERMAL INSULATION & TILING	25JUN88	5JUL88	19JUL88	30JUL88	21
321H014A49	10	10	0	17	ROOF THERMAL INSULATION & TILING	27JUN88	7JUL88	24JUL88	3AUG88	23
321H013A49	10	10	0	18	ROOF THERMAL INSULATION & TILING	2JUL88	12JUL88	28JUL88	9AUG88	23
322H188A49	10	10	0	19	ROOF THERMAL INSULATION & TILING	6JUL88	17JUL88	2AUG88	14AUG88	23
322H189A49	10	10	0	20	ROOF THERMAL INSULATION & TILING	9JUL88	19JUL88	8AUG88	18AUG88	25
322H190A49	10	10	0	21	ROOF THERMAL INSULATION & TILING	13JUL88	24JUL88	13AUG88	23AUG88	25
321H021A49	10	10	0	22	ROOF THERMAL INSULATION & TILING	18JUL88	28JUL88	17AUG88	29AUG88	25
321H010A49	10	10	0	23	ROOF THERMAL INSULATION & TILING	20JUL88	31JUL88	22AUG88	3SEP88	27
320H007A49	10	10	0	24	ROOF THERMAL INSULATION & TILING	25JUL88	6AUG88	28AUG88	7SEP88	27
321H035A49	10	10	0	25	ROOF THERMAL INSULATION & TILING	30JUL88	10AUG88	1SEP88	12SEP88	27
321H036A49	10	10	0	26	ROOF THERMAL INSULATION & TILING	1AUG88	13AUG88	6SEP88	17SEP88	29
321H037A49	10	10	0	27	ROOF THERMAL INSULATION & TILING	7AUG88	17AUG88	11SEP88	21SEP88	29
321H032A49	10	10	0	28	ROOF THERMAL INSULATION & TILING	11AUG88	22AUG88	15SEP88	26SEP88	29
321H033A49	10	10	0	29	ROOF THERMAL INSULATION & TILING	14AUG88	24AUG88	20SEP88	1OCT88	31
321H034A49	10	10	0	30	ROOF THERMAL INSULATION & TILING	18AUG88	30AUG88	25SEP88	5OCT88	31
321H011A49	10	10	0	31	ROOF THERMAL INSULATION & TILING	23AUG88	4SEP88	29SEP88	10OCT88	31
321H012A49	10	10	0	32	ROOF THERMAL INSULATION & TILING	27AUG88	6SEP88	4OCT88	15OCT88	33
321H017A49	10	10	0	33	ROOF THERMAL INSULATION & TILING	31AUG88	11SEP88	9OCT88	19OCT88	33
321H016A49	10	10	0	34	ROOF THERMAL INSULATION & TILING	5SEP88	15SEP88	13OCT88	24OCT88	33
321H003A49	10	10	0	35	ROOF THERMAL INSULATION & TILING	7SEP88	18SEP88	17OCT88	27OCT88	34
321H002A49	10	10	0	36	ROOF THERMAL INSULATION & TILING	12SEP88	22SEP88	22OCT88	1NOV88	34
321H001A49	10	10	0	37	ROOF THERMAL INSULATION & TILING	17SEP88	27SEP88	25OCT88	5NOV88	33

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST. PRIMAVERA PROJECT PLANNER Correcting Out-of-Logic Progress NSQ

REPORT DATE 21SEP95 RUN NO. 205 SEVEN SEAS, CONSTRUCTION OF 51 HOUSES START DATE 1APR87 FIN DATE 30MAR89*

Revd & Decel Schl by Typical Activity & ES DATA DATE 1FEB88 PAGE NO. 21

ACTIVITY ID	ORIG DUR	REM DUR	*	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
220H009A49	10	10	0	38	ROOF THERMAL INSULATION & TILING	19SEP88	29SEP88	30OCT88	9NOV88	35
220H008A49	10	10	0	39	ROOF THERMAL INSULATION & TILING	24SEP88	4OCT88	2NOV88	13NOV88	34
220H006A49	10	10	0	40	ROOF THERMAL INSULATION & TILING	28SEP88	9OCT88	7NOV88	17NOV88	34
220H005A49	10	10	0	41	ROOF THERMAL INSULATION & TILING	1OCT88	11OCT88	10NOV88	21NOV88	35
220H004A49	10	10	0	42	ROOF THERMAL INSULATION & TILING	5OCT88	16OCT88	15NOV88	26NOV88	35
320H176A49	10	10	0	43	ROOF THERMAL INSULATION & TILING	10OCT88	20OCT88	19NOV88	29NOV88	34
320H177A49	10	10	0	44	ROOF THERMAL INSULATION & TILING	12OCT88	23OCT88	21NOV88	4DEC88	36
320H178A49	10	10	0	45	ROOF THERMAL INSULATION & TILING	17OCT88	27OCT88	27NOV88	7DEC88	35
215H027A49	10	10	0	46	ROOF THERMAL INSULATION & TILING	22OCT88	1NOV88	1DEC88	12DEC88	35
215H026A49	10	10	0	47	ROOF THERMAL INSULATION & TILING	24OCT88	3NOV88	5DEC88	15DEC88	36
215H025A49	10	10	0	48	ROOF THERMAL INSULATION & TILING	29OCT88	8NOV88	10DEC88	20DEC88	36
215H024A49	10	10	0	49	ROOF THERMAL INSULATION & TILING	2NOV88	13NOV88	13DEC88	24DEC88	35
215H023A49	10	10	0	50	ROOF THERMAL INSULATION & TILING	5NOV88	15NOV88	18DEC88	28DEC88	37
215H022A49	10	10	0	51	ROOF THERMAL INSULATION & TILING	9NOV88	20NOV88	21DEC88	2JAN89	36
211H043A50	5	5	0	01	STAIRS HANDRAILS	21APR88	26APR88	18JUL88	23JUL88	74
211H042A50	5	5	0	02	STAIRS HANDRAILS	25APR88	30APR88	21JUL88	26JUL88	74
321H174A50	5	5	0	03	STAIRS HANDRAILS	30APR88	4MAY88	25JUL88	30JUL88	73
321H175A50	5	5	0	04	STAIRS HANDRAILS	3MAY88	8MAY88	28JUL88	2AUG88	73
211H044A50	5	5	0	05	STAIRS HANDRAILS	8MAY88	12MAY88	1AUG88	7AUG88	72
323H185A50	5	5	0	06	STAIRS HANDRAILS	11MAY88	16MAY88	6AUG88	10AUG88	72
323H186A50	5	5	0	07	STAIRS HANDRAILS	16MAY88	21MAY88	9AUG88	14AUG88	71
323H187A50	5	5	0	08	STAIRS HANDRAILS	19MAY88	24MAY88	13AUG88	17AUG88	71
214H030A50	5	5	0	09	STAIRS HANDRAILS	24MAY88	29MAY88	16AUG88	21AUG88	70
214H029A50	5	5	0	10	STAIRS HANDRAILS	28MAY88	2JUN88	20AUG88	24AUG88	70
214H028A50	5	5	0	11	STAIRS HANDRAILS	2JUN88	7JUN88	23AUG88	29AUG88	69
214H031A50	5	5	0	12	STAIRS HANDRAILS	6JUN88	11JUN88	28AUG88	1SEP88	69
216H020A50	5	5	0	13	STAIRS HANDRAILS	11JUN88	15JUN88	31AUG88	5SEP88	68
216H019A50	5	5	0	14	STAIRS HANDRAILS	14JUN88	19JUN88	4SEP88	8SEP88	68
216H018A50	5	5	0	15	STAIRS HANDRAILS	19JUN88	23JUN88	7SEP88	12SEP88	67
218H015A50	5	5	0	16	STAIRS HANDRAILS	22JUN88	27JUN88	11SEP88	15SEP88	67
218H014A50	5	5	0	17	STAIRS HANDRAILS	27JUN88	3JUL88	14SEP88	19SEP88	66
218H013A50	5	5	0	18	STAIRS HANDRAILS	30JUN88	5JUL88	18SEP88	22SEP88	66
322H188A50	5	5	0	19	STAIRS HANDRAILS	5JUL88	10JUL88	21SEP88	26SEP88	65
322H189A50	5	5	0	20	STAIRS HANDRAILS	9JUL88	13JUL88	25SEP88	29SEP88	65
322H190A50	5	5	0	21	STAIRS HANDRAILS	13JUL88	18JUL88	28SEP88	3OCT88	64
216H021A50	5	5	0	22	STAIRS HANDRAILS	17JUL88	21JUL88	2OCT88	6OCT88	64
219H010A50	5	5	0	23	STAIRS HANDRAILS	21JUL88	26JUL88	5OCT88	10OCT88	63
220H007A50	5	5	0	24	STAIRS HANDRAILS	25JUL88	30JUL88	9OCT88	13OCT88	63
213H035A50	5	5	0	25	STAIRS HANDRAILS	30JUL88	3AUG88	12OCT88	17OCT88	62
213H036A50	5	5	0	26	STAIRS HANDRAILS	2AUG88	8AUG88	16OCT88	20OCT88	62
213H037A50	5	5	0	27	STAIRS HANDRAILS	8AUG88	13AUG88	19OCT88	24OCT88	61
213H032A50	5	5	0	28	STAIRS HANDRAILS	11AUG88	16AUG88	23OCT88	27OCT88	61
213H033A50	5	5	0	29	STAIRS HANDRAILS	16AUG88	21AUG88	26OCT88	31OCT88	60
213H034A50	5	5	0	30	STAIRS HANDRAILS	20AUG88	24AUG88	30OCT88	3NOV88	60
219H011A50	5	5	0	31	STAIRS HANDRAILS	24AUG88	30AUG88	2NOV88	7NOV88	59
219H012A50	5	5	0	32	STAIRS HANDRAILS	29AUG88	3SEP88	6NOV88	10NOV88	59
217H017A50	5	5	0	33	STAIRS HANDRAILS	3SEP88	7SEP88	9NOV88	14NOV88	58
217H016A50	5	5	0	34	STAIRS HANDRAILS	6SEP88	11SEP88	13NOV88	17NOV88	58
221H003A50	5	5	0	35	STAIRS HANDRAILS	11SEP88	15SEP88	16NOV88	21NOV88	57
221H002A50	5	5	0	36	STAIRS HANDRAILS	14SEP88	19SEP88	20NOV88	24NOV88	57
221H001A50	5	5	0	37	STAIRS HANDRAILS	19SEP88	24SEP88	23NOV88	28NOV88	56
220H009A50	5	5	0	38	STAIRS HANDRAILS	22SEP88	27SEP88	27NOV88	1DEC88	56
220H008A50	5	5	0	39	STAIRS HANDRAILS	27SEP88	2OCT88	30NOV88	5DEC88	55
220H006A50	5	5	0	40	STAIRS HANDRAILS	1OCT88	5OCT88	4DEC88	8DEC88	55
220H005A50	5	5	0	41	STAIRS HANDRAILS	5OCT88	10OCT88	7DEC88	12DEC88	54
220H004A50	5	5	0	42	STAIRS HANDRAILS	9OCT88	13OCT88	11DEC88	15DEC88	54
320H176A50	5	5	0	43	STAIRS HANDRAILS	13OCT88	18OCT88	14DEC88	19DEC88	53
320H177A50	5	5	0	44	STAIRS HANDRAILS	17OCT88	22OCT88	18DEC88	22DEC88	53
320H178A50	5	5	0	45	STAIRS HANDRAILS	22OCT88	26OCT88	21DEC88	26DEC88	52
215H027A50	5	5	0	46	STAIRS HANDRAILS	25OCT88	30OCT88	25DEC88	29DEC88	52
215H026A50	5	5	0	47	STAIRS HANDRAILS	30OCT88	3NOV88	28DEC88	3JAN89	51
215H025A50	5	5	0	48	STAIRS HANDRAILS	2NOV88	7NOV88	2JAN89	7JAN89	51
215H024A50	5	5	0	49	STAIRS HANDRAILS	7NOV88	12NOV88	5JAN89	10JAN89	50
215H023A50	5	5	0	50	STAIRS HANDRAILS	10NOV88	15NOV88	9JAN89	14JAN89	50
215H022A50	5	5	0	51	STAIRS HANDRAILS	15NOV88	20NOV88	12JAN89	17JAN89	49
211H043A51	6	6	0	01	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	21APR88	27APR88	25APR88	1MAY88	3
211H042A51	6	6	0	02	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	25APR88	1MAY88	30APR88	5MAY88	4
321H174A51	6	6	0	03	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	30APR88	5MAY88	4MAY88	10MAY88	4
321H175A51	6	6	0	04	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	3MAY88	9MAY88	9MAY88	15MAY88	5
211H044A51	6	6	0	05	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	8MAY88	14MAY88	14MAY88	19MAY88	5
323H185A51	6	6	0	06	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	11MAY88	17MAY88	18MAY88	24MAY88	6
323H186A51	6	6	0	07	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	16MAY88	22MAY88	23MAY88	29MAY88	6
323H187A51	6	6	0	08	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	19MAY88	25MAY88	28MAY88	4JUN88	7
214H030A51	6	6	0	09	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	24MAY88	31MAY88	2JUN88	8JUN88	7
214H029A51	6	6	0	10	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	28MAY88	4JUN88	7JUN88	13JUN88	8
214H031A51	6	6	0	11	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	2JUN88	8JUN88	12JUN88	18JUN88	8
216H020A51	6	6	0	12	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	6JUN88	12JUN88	16JUN88	22JUN88	9
216H019A51	6	6	0	13	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	11JUN88	16JUN88	21JUN88	27JUN88	9
216H018A51	6	6	0	14	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	14JUN88	20JUN88	26JUN88	2JUL88	10
216H017A51	6	6	0	15	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	19JUN88	25JUN88	30JUN88	6JUL88	10
218H015A51	6	6	0	16	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	22JUN88	28JUN88	5JUL88	11JUL88	11
218H014A51	6	6	0	17	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	27JUN88	3JUL88	10JUL88	16JUL88	11
218H013A51	6	6	0	18	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	30JUN88	6JUL88	14JUL88	20JUL88	12
322H188A51	6	6	0	19	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	5JUL88	11JUL88	19JUL88	25JUL88	12
322H189A51	6	6	0	20	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	9JUL88	14JUL88	24JUL88	30JUL88	13
216H021A51	6	6	0	21	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	13JUL88	19JUL88	28JUL88	3AUG88	13
219H010A51	6	6	0	22	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	17JUL88	23JUL88	2AUG88	9AUG88	14
220H007A51	6	6	0	23	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	21JUL88	27JUL88	8AUG88	14AUG88	14
220H006A51	6	6	0	24	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	25JUL88	31JUL88	13AUG88	18AUG88	15
220H005A51	6	6	0	25	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	30JUL88	6AUG88	17AUG88	23AUG88	15
220H004A51	6	6	0	26	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	2AUG88	9AUG88	22AUG88	29AUG88	16
320H176A51	6	6	0	27	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	8AUG88	14AUG88	28AUG88	3SEP88	16
320H177A51	6	6	0	28	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	11AUG88	17AUG88	1SEP88	7SEP88	17
320H178A51	6	6	0	29	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	16AUG88	22AUG88	6SEP88	12SEP88	17
215H027A51	6	6	0	30	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	20AUG88	27AUG88	11SEP88	17SEP88	18
215H026A51	6	6	0	31	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	24AUG88	31AUG88	15SEP88	21SEP88	18

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST. PRIMAVERA PROJECT PLANNER Correcting Out-of-Logic Progress NSq
 REPORT DATE 11SEP95 RUN NO. 205 SEVEN SEAS, CONSTRUCTION OF 51 HOUSES START DATE 1APR87 FIN DATE 30MAR89*
 18:31
 Revd & Decel Schl by Typical Activity & ES DATA DATE 1FEB88 PAGE NO. 22

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
219H012A51	6	6	0	32	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	29AUG88	4SEP88	20SEP88	26SEP88	19
217H017A51	6	6	0	33	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	3SEP88	8SEP88	25SEP88	10CT88	19
217H016A51	6	6	0	34	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	6SEP88	12SEP88	29SEP88	5OCT88	20
221H003A51	6	6	0	35	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	11SEP88	17SEP88	4OCT88	10OCT88	20
221H002A51	6	6	0	36	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	14SEP88	20SEP88	9OCT88	15OCT88	21
221H001A51	6	6	0	37	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	19SEP88	25SEP88	13OCT88	19OCT88	21
220H009A51	6	6	0	38	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	22SEP88	28SEP88	18OCT88	24OCT88	22
220H008A51	6	6	0	39	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	27SEP88	3OCT88	23OCT88	29OCT88	22
220H006A51	6	6	0	40	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	1OCT88	6OCT88	27OCT88	2NOV88	23
220H005A51	6	6	0	41	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	5OCT88	11OCT88	1NOV88	7NOV88	23
220H004A51	6	6	0	42	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	9OCT88	15OCT88	6NOV88	12NOV88	24
320H176A51	6	6	0	43	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	13OCT88	19OCT88	10NOV88	16NOV88	24
320H177A51	6	6	0	44	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	17OCT88	23OCT88	15NOV88	21NOV88	25
320H178A51	6	6	0	45	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	22OCT88	27OCT88	19NOV88	24NOV88	24
215H027A51	6	6	0	46	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	25OCT88	31OCT88	22NOV88	28NOV88	24
215H026A51	6	6	0	47	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	30OCT88	5NOV88	26NOV88	1DEC88	23
215H025A51	6	6	0	48	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	2NOV88	8NOV88	29NOV88	5DEC88	23
215H024A51	6	6	0	49	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	7NOV88	13NOV88	3DEC88	8DEC88	22
215H023A51	6	6	0	50	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	10NOV88	16NOV88	6DEC88	12DEC88	22
215H022A51	6	6	0	51	PLASTERING OF CHASES, SKIRTING & EMBEDDED PLUMB.	15NOV88	21NOV88	10DEC88	15DEC88	21
211H043A52	7	7	0	01	CERAMIC TILES	23APR88	30APR88	24APR88	1MAY88	1
211H042A52	7	7	0	02	CERAMIC TILES	26APR88	3MAY88	28APR88	5MAY88	2
321K174A52	7	7	0	03	CERAMIC TILES	1MAY88	8MAY88	3MAY88	10MAY88	2
321K175A52	7	7	0	04	CERAMIC TILES	4MAY88	11MAY88	8MAY88	15MAY88	3
211H044A52	7	7	0	05	CERAMIC TILES	9MAY88	16MAY88	12MAY88	19MAY88	3
323H185A52	7	7	0	06	CERAMIC TILES	12MAY88	19MAY88	17MAY88	24MAY88	4
323H186A52	7	7	0	07	CERAMIC TILES	17MAY88	24MAY88	22MAY88	29MAY88	4
323H187A52	7	7	0	08	CERAMIC TILES	21MAY88	28MAY88	26MAY88	4JUN88	5
214H030A52	7	7	0	09	CERAMIC TILES	25MAY88	2JUN88	1JUN88	8JUN88	5
214H029A52	7	7	0	10	CERAMIC TILES	29MAY88	6JUN88	6JUN88	13JUN88	6
214H028A52	7	7	0	11	CERAMIC TILES	4JUN88	11JUN88	11JUN88	18JUN88	6
214H031A52	7	7	0	12	CERAMIC TILES	7JUN88	14JUN88	15JUN88	22JUN88	7
216H020A52	7	7	0	13	CERAMIC TILES	12JUN88	19JUN88	20JUN88	27JUN88	7
216H019A52	7	7	0	14	CERAMIC TILES	15JUN88	22JUN88	25JUN88	2JUL88	8
216H018A52	7	7	0	15	CERAMIC TILES	20JUN88	27JUN88	29JUN88	6JUL88	8
218H015A52	7	7	0	16	CERAMIC TILES	23JUN88	30JUN88	4JUL88	11JUL88	9
218H014A52	7	7	0	17	CERAMIC TILES	28JUN88	5JUL88	9JUL88	16JUL88	9
218H013A52	7	7	0	18	CERAMIC TILES	2JUL88	9JUL88	13JUL88	20JUL88	10
322H188A52	7	7	0	19	CERAMIC TILES	6JUL88	13JUL88	18JUL88	25JUL88	10
322H189A52	7	7	0	20	CERAMIC TILES	10JUL88	17JUL88	23JUL88	30JUL88	11
322H190A52	7	7	0	21	CERAMIC TILES	14JUL88	21JUL88	27JUL88	3AUG88	11
216H021A52	7	7	0	22	CERAMIC TILES	18JUL88	25JUL88	1AUG88	9AUG88	12
219H010A52	7	7	0	23	CERAMIC TILES	23JUL88	30JUL88	7AUG88	14AUG88	12
220H007A52	7	7	0	24	CERAMIC TILES	26JUL88	2AUG88	11AUG88	18AUG88	13
213H035A52	7	7	0	25	CERAMIC TILES	31JUL88	8AUG88	16AUG88	23AUG88	13
213H036A52	7	7	0	26	CERAMIC TILES	3AUG88	11AUG88	21AUG88	29AUG88	14
213H037A52	7	7	0	27	CERAMIC TILES	9AUG88	16AUG88	27AUG88	3SEP88	14
213H032A52	7	7	0	28	CERAMIC TILES	13AUG88	20AUG88	31AUG88	7SEP88	15
213H033A52	7	7	0	29	CERAMIC TILES	17AUG88	24AUG88	5SEP88	12SEP88	15
213H034A52	7	7	0	30	CERAMIC TILES	21AUG88	29AUG88	10SEP88	17SEP88	16
219H011A52	7	7	0	31	CERAMIC TILES	27AUG88	3SEP88	14SEP88	21SEP88	16
219H012A52	7	7	0	32	CERAMIC TILES	30AUG88	6SEP88	19SEP88	26SEP88	17
217H017A52	7	7	0	33	CERAMIC TILES	4SEP88	11SEP88	24SEP88	1OCT88	17
217H016A52	7	7	0	34	CERAMIC TILES	7SEP88	14SEP88	28SEP88	5OCT88	18
221H003A52	7	7	0	35	CERAMIC TILES	12SEP88	19SEP88	3OCT88	10OCT88	18
221H002A52	7	7	0	36	CERAMIC TILES	15SEP88	22SEP88	8OCT88	15OCT88	19
221H001A52	7	7	0	37	CERAMIC TILES	20SEP88	27SEP88	12OCT88	19OCT88	19
220H009A52	7	7	0	38	CERAMIC TILES	24SEP88	1OCT88	17OCT88	24OCT88	20
220H008A52	7	7	0	39	CERAMIC TILES	28SEP88	5OCT88	20OCT88	27OCT88	19
220H006A52	7	7	0	40	CERAMIC TILES	2OCT88	9OCT88	25OCT88	1NOV88	20
220H005A52	7	7	0	41	CERAMIC TILES	6OCT88	13OCT88	29OCT88	5NOV88	19
220H004A52	7	7	0	42	CERAMIC TILES	10OCT88	17OCT88	2NOV88	9NOV88	20
320H176A52	7	7	0	43	CERAMIC TILES	15OCT88	22OCT88	6NOV88	13NOV88	19
320H177A52	7	7	0	44	CERAMIC TILES	18OCT88	25OCT88	10NOV88	17NOV88	20
320H178A52	7	7	0	45	CERAMIC TILES	23OCT88	30OCT88	14NOV88	21NOV88	19
215H027A52	7	7	0	46	CERAMIC TILES	26OCT88	2NOV88	19NOV88	26NOV88	20
215H026A52	7	7	0	47	CERAMIC TILES	31OCT88	7NOV88	22NOV88	29NOV88	19
215H025A52	7	7	0	48	CERAMIC TILES	3NOV88	10NOV88	27NOV88	4DEC88	20
215H024A52	7	7	0	49	CERAMIC TILES	8NOV88	15NOV88	30NOV88	7DEC88	19
215H023A52	7	7	0	50	CERAMIC TILES	12NOV88	19NOV88	5DEC88	12DEC88	20
215H022A52	7	7	0	51	CERAMIC TILES	16NOV88	23NOV88	8DEC88	15DEC88	19
211H043A53	7	7	0	01	GYP SUM BOARDS FALSE CEILING	23APR88	30APR88	24APR88	1MAY88	1
211H042A53	7	7	0	02	GYP SUM BOARDS FALSE CEILING	26APR88	3MAY88	28APR88	5MAY88	2
321H174A53	7	7	0	03	GYP SUM BOARDS FALSE CEILING	1MAY88	8MAY88	3MAY88	10MAY88	2
321H175A53	7	7	0	04	GYP SUM BOARDS FALSE CEILING	4MAY88	11MAY88	8MAY88	15MAY88	3
211H044A53	7	7	0	05	GYP SUM BOARDS FALSE CEILING	9MAY88	16MAY88	12MAY88	19MAY88	3
323H185A53	7	7	0	06	GYP SUM BOARDS FALSE CEILING	12MAY88	19MAY88	17MAY88	24MAY88	4
323H186A53	7	7	0	07	GYP SUM BOARDS FALSE CEILING	17MAY88	24MAY88	22MAY88	29MAY88	4
323H187A53	7	7	0	08	GYP SUM BOARDS FALSE CEILING	21MAY88	28MAY88	26MAY88	4JUN88	5
214H030A53	7	7	0	09	GYP SUM BOARDS FALSE CEILING	25MAY88	2JUN88	1JUN88	8JUN88	5
214H029A53	7	7	0	10	GYP SUM BOARDS FALSE CEILING	29MAY88	6JUN88	6JUN88	13JUN88	6
214H028A53	7	7	0	11	GYP SUM BOARDS FALSE CEILING	4JUN88	11JUN88	11JUN88	18JUN88	6
214H031A53	7	7	0	12	GYP SUM BOARDS FALSE CEILING	7JUN88	14JUN88	15JUN88	22JUN88	7
216H020A53	7	7	0	13	GYP SUM BOARDS FALSE CEILING	12JUN88	19JUN88	20JUN88	27JUN88	7
216H019A53	7	7	0	14	GYP SUM BOARDS FALSE CEILING	15JUN88	22JUN88	25JUN88	2JUL88	8
216H018A53	7	7	0	15	GYP SUM BOARDS FALSE CEILING	20JUN88	27JUN88	29JUN88	6JUL88	8
218H015A53	7	7	0	16	GYP SUM BOARDS FALSE CEILING	23JUN88	30JUN88	4JUL88	11JUL88	9
218H014A53	7	7	0	17	GYP SUM BOARDS FALSE CEILING	28JUN88	5JUL88	9JUL88	16JUL88	9
218H013A53	7	7	0	18	GYP SUM BOARDS FALSE CEILING	2JUL88	9JUL88	13JUL88	20JUL88	10
322H188A53	7	7	0	19	GYP SUM BOARDS FALSE CEILING	6JUL88	13JUL88	18JUL88	25JUL88	10
322H189A53	7	7	0	20	GYP SUM BOARDS FALSE CEILING	10JUL88	17JUL88	23JUL88	30JUL88	11
322H190A53	7	7	0	21	GYP SUM BOARDS FALSE CEILING	14JUL88	21JUL88	27JUL88	3AUG88	11
216H021A53	7	7	0	22	GYP SUM BOARDS FALSE CEILING	18JUL88	25JUL88	1AUG88	9AUG88	12
219H010A53	7	7	0	23	GYP SUM BOARDS FALSE CEILING	23JUL88	30JUL88	7AUG88	14AUG88	12
220H007A53	7	7	0	24	GYP SUM BOARDS FALSE CEILING	26JUL88	2AUG88	11AUG88	18AUG88	13
213H035A53	7	7	0	25	GYP SUM BOARDS FALSE CEILING	31JUL88	8AUG88	16AUG88	23AUG88	13

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Rev'd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 23

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
213H036A53	7	7	0	26	GYPSPUM BOARDS FALSE CEILING	3AUG88	11AUG88	21AUG88	29AUG88	14
213H037A53	7	7	0	27	GYPSPUM BOARDS FALSE CEILING	9AUG88	16AUG88	27AUG88	35EP88	14
213H032A53	7	7	0	28	GYPSPUM BOARDS FALSE CEILING	13AUG88	20AUG88	31AUG88	78EP88	15
213H033A53	7	7	0	29	GYPSPUM BOARDS FALSE CEILING	17AUG88	24AUG88	53EP88	128EP88	15
213H034A53	7	7	0	30	GYPSPUM BOARDS FALSE CEILING	21AUG88	29AUG88	10SEP88	178EP88	16
219H011A53	7	7	0	31	GYPSPUM BOARDS FALSE CEILING	27AUG88	3SEP88	14SEP88	218EP88	16
219H012A53	7	7	0	32	GYPSPUM BOARDS FALSE CEILING	30AUG88	6SEP88	19SEP88	248EP88	17
217H017A53	7	7	0	33	GYPSPUM BOARDS FALSE CEILING	4SEP88	11SEP88	24SEP88	10CT88	17
217H016A53	7	7	0	34	GYPSPUM BOARDS FALSE CEILING	7SEP88	14SEP88	28SEP88	50CT88	18
221H003A53	7	7	0	15	GYPSPUM BOARDS FALSE CEILING	12SEP88	19SEP88	30CT88	100CT88	18
221H002A53	7	7	0	36	GYPSPUM BOARDS FALSE CEILING	15SEP88	22SEP88	60CT88	150CT88	19
221H001A53	7	7	0	37	GYPSPUM BOARDS FALSE CEILING	20SEP88	27SEP88	120CT88	190CT88	19
220H009A53	7	7	0	38	GYPSPUM BOARDS FALSE CEILING	24SEP88	10CT88	170CT88	240CT88	20
220H008A53	7	7	0	39	GYPSPUM BOARDS FALSE CEILING	28SEP88	50CT88	200CT88	270CT88	19
220H006A53	7	7	0	40	GYPSPUM BOARDS FALSE CEILING	20CT88	90CT88	250CT88	1NOV88	20
220H005A53	7	7	0	41	GYPSPUM BOARDS FALSE CEILING	60CT88	130CT88	290CT88	5NOV88	19
220H004A53	7	7	0	42	GYPSPUM BOARDS FALSE CEILING	100CT88	170CT88	2NOV88	9NOV88	20
320H176A53	7	7	0	43	GYPSPUM BOARDS FALSE CEILING	150CT88	220CT88	6NOV88	13NOV88	19
320H177A53	7	7	0	44	GYPSPUM BOARDS FALSE CEILING	180CT88	250CT88	10NOV88	17NOV88	20
320H178A53	7	7	0	45	GYPSPUM BOARDS FALSE CEILING	230CT88	300CT88	14NOV88	21NOV88	19
215H027A53	7	7	0	46	GYPSPUM BOARDS FALSE CEILING	260CT88	2NOV88	19NOV88	26NOV88	20
215H026A53	7	7	0	47	GYPSPUM BOARDS FALSE CEILING	310CT88	7NOV88	22NOV88	29NOV88	19
215H025A53	7	7	0	48	GYPSPUM BOARDS FALSE CEILING	3NOV88	10NOV88	27NOV88	4DEC88	20
215H024A53	7	7	0	49	GYPSPUM BOARDS FALSE CEILING	8NOV88	15NOV88	30NOV88	7DEC88	19
215H023A53	7	7	0	50	GYPSPUM BOARDS FALSE CEILING	12NOV88	19NOV88	5DEC88	12DEC88	20
215H022A53	7	7	0	51	GYPSPUM BOARDS FALSE CEILING	16NOV88	23NOV88	8DEC88	15DEC88	19
211H043A54	10	10	0	01	YARD PLUMBING PIPES	3MAY88	14MAY88	16MAY88	26MAY88	11
211H042A54	10	10	0	02	YARD PLUMBING PIPES	3MAY88	14MAY88	19MAY88	31MAY88	14
321H174A54	10	10	0	03	YARD PLUMBING PIPES	10MAY88	21MAY88	23MAY88	4JUN88	11
321H175A54	10	10	0	04	YARD PLUMBING PIPES	14MAY88	24MAY88	26MAY88	7JUN88	11
211H044A54	10	10	0	05	YARD PLUMBING PIPES	17MAY88	28MAY88	31MAY88	11JUN88	11
323H185A54	10	10	0	06	YARD PLUMBING PIPES	21MAY88	1JUN88	4JUN88	14JUN88	11
323H186A54	10	10	0	07	YARD PLUMBING PIPES	24MAY88	5JUN88	7JUN88	18JUN88	11
323H187A54	10	10	0	08	YARD PLUMBING PIPES	28MAY88	8JUN88	11JUN88	21JUN88	11
214H030A54	10	10	0	09	YARD PLUMBING PIPES	1JUN88	12JUN88	14JUN88	25JUN88	11
214H029A54	10	10	0	10	YARD PLUMBING PIPES	5JUN88	15JUN88	18JUN88	28JUN88	11
214H028A54	10	10	0	11	YARD PLUMBING PIPES	8JUN88	19JUN88	21JUN88	3JUL88	11
214H031A54	10	10	0	12	YARD PLUMBING PIPES	12JUN88	22JUN88	25JUN88	5JUL88	11
216H020A54	10	10	0	13	YARD PLUMBING PIPES	15JUN88	26JUN88	28JUN88	9JUL88	11
216H019A54	10	10	0	14	YARD PLUMBING PIPES	19JUN88	29JUN88	2JUL88	12JUL88	11
216H018A54	10	10	0	15	YARD PLUMBING PIPES	22JUN88	3JUL88	5JUL88	16JUL88	11
218H015A54	10	10	0	16	YARD PLUMBING PIPES	26JUN88	6JUL88	9JUL88	19JUL88	11
218H014A54	10	10	0	17	YARD PLUMBING PIPES	29JUN88	10JUL88	12JUL88	23JUL88	11
218H013A54	10	10	0	18	YARD PLUMBING PIPES	3JUL88	13JUL88	16JUL88	26JUL88	11
322H188A54	10	10	0	19	YARD PLUMBING PIPES	6JUL88	17JUL88	19JUL88	30JUL88	11
322H189A54	10	10	0	20	YARD PLUMBING PIPES	10JUL88	20JUL88	23JUL88	2AUG88	11
322H190A54	10	10	0	21	YARD PLUMBING PIPES	13JUL88	24JUL88	26JUL88	7AUG88	11
216H021A54	10	10	0	22	YARD PLUMBING PIPES	17JUL88	27JUL88	30JUL88	10AUG88	11
219H010A54	10	10	0	23	YARD PLUMBING PIPES	20JUL88	31JUL88	2AUG88	14AUG88	11
220H007A54	10	10	0	24	YARD PLUMBING PIPES	24JUL88	3AUG88	7AUG88	17AUG88	11
213H035A54	10	10	0	25	YARD PLUMBING PIPES	27JUL88	8AUG88	10AUG88	21AUG88	11
213H036A54	10	10	0	26	YARD PLUMBING PIPES	31JUL88	11AUG88	14AUG88	24AUG88	11
213H037A54	10	10	0	27	YARD PLUMBING PIPES	3AUG88	15AUG88	17AUG88	29AUG88	11
213H032A54	10	10	0	28	YARD PLUMBING PIPES	8AUG88	18AUG88	21AUG88	1SEP88	11
213H033A54	10	10	0	29	YARD PLUMBING PIPES	11AUG88	22AUG88	24AUG88	5SEP88	11
213H034A54	10	10	0	30	YARD PLUMBING PIPES	15AUG88	27AUG88	29AUG88	8SEP88	11
219H011A54	10	10	0	31	YARD PLUMBING PIPES	20AUG88	31AUG88	1SEP88	12SEP88	10
219H012A54	10	10	0	32	YARD PLUMBING PIPES	22AUG88	3SEP88	5SEP88	15SEP88	11
217H017A54	10	10	0	33	YARD PLUMBING PIPES	29AUG88	8SEP88	8SEP88	19SEP88	9
217H016A54	10	10	0	34	YARD PLUMBING PIPES	30AUG88	10SEP88	12SEP88	22SEP88	11
221H003A54	10	10	0	35	YARD PLUMBING PIPES	6SEP88	17SEP88	15SEP88	26SEP88	8
221H002A54	10	10	0	36	YARD PLUMBING PIPES	6SEP88	17SEP88	19SEP88	29SEP88	11
221H001A54	10	10	0	37	YARD PLUMBING PIPES	14SEP88	25SEP88	22SEP88	30CT88	7
220H009A54	10	10	0	38	YARD PLUMBING PIPES	14SEP88	25SEP88	26SEP88	60CT88	10
220H008A54	10	10	0	39	YARD PLUMBING PIPES	22SEP88	30CT88	29SEP88	100CT88	6
220H006A54	10	10	0	40	YARD PLUMBING PIPES	22SEP88	30CT88	30CT88	130CT88	9
220H005A54	10	10	0	41	YARD PLUMBING PIPES	10CT88	110CT88	60CT88	170CT88	5
220H004A54	10	10	0	42	YARD PLUMBING PIPES	10CT88	110CT88	100CT88	200CT88	8
320H176A54	10	10	0	43	YARD PLUMBING PIPES	90CT88	190CT88	130CT88	240CT88	4
320H177A54	10	10	0	44	YARD PLUMBING PIPES	90CT88	190CT88	170CT88	270CT88	7
320H178A54	10	10	0	45	YARD PLUMBING PIPES	170CT88	270CT88	200CT88	310CT88	3
215H027A54	10	10	0	46	YARD PLUMBING PIPES	180CT88	290CT88	240CT88	3NOV88	5
215H026A54	10	10	0	47	YARD PLUMBING PIPES	250CT88	5NOV88	270CT88	7NOV88	2
215H025A54	10	10	0	48	YARD PLUMBING PIPES	250CT88	5NOV88	310CT88	10NOV88	5
215H024A54	10	10	0	49	YARD PLUMBING PIPES	2NOV88	13NOV88	3NOV88	14NOV88	1
215H023A54	10	10	0	50	YARD PLUMBING PIPES	3NOV88	14NOV88	3NOV88	17NOV88	3
215H022A54	10	10	0	51	YARD PLUMBING PIPES	10NOV88	21NOV88	10NOV88	21NOV88	0
211H043A55	12	12	0	01	PAINT PREPARATION (Primer & Putty Coats)	1MAY88	14MAY88	2MAY88	15MAY88	1
211H042A55	12	12	0	02	PAINT PREPARATION (Primer & Putty Coats)	4MAY88	17MAY88	7MAY88	19MAY88	2
321H174A55	12	12	0	03	PAINT PREPARATION (Primer & Putty Coats)	9MAY88	22MAY88	11MAY88	24MAY88	2
321H175A55	12	12	0	04	PAINT PREPARATION (Primer & Putty Coats)	12MAY88	25MAY88	16MAY88	29MAY88	3
211H044A55	12	12	0	05	PAINT PREPARATION (Primer & Putty Coats)	17MAY88	31MAY88	21MAY88	4JUN88	3
323H185A55	12	12	0	06	PAINT PREPARATION (Primer & Putty Coats)	21MAY88	4JUN88	25MAY88	8JUN88	4
323H186A55	12	12	0	07	PAINT PREPARATION (Primer & Putty Coats)	25MAY88	8JUN88	31MAY88	13JUN88	4
323H187A55	12	12	0	08	PAINT PREPARATION (Primer & Putty Coats)	29MAY88	12JUN88	5JUN88	18JUN88	5
214H030A55	12	12	0	09	PAINT PREPARATION (Primer & Putty Coats)	4JUN88	16JUN88	9JUN88	22JUN88	5
214H029A55	12	12	0	10	PAINT PREPARATION (Primer & Putty Coats)	7JUN88	20JUN88	14JUN88	27JUN88	6
214H028A55	12	12	0	11	PAINT PREPARATION (Primer & Putty Coats)	12JUN88	25JUN88	19JUN88	3JUL88	6
214H031A55	12	12	0	12	PAINT PREPARATION (Primer & Putty Coats)	15JUN88	28JUN88	23JUN88	6JUL88	7
216H020A55	12	12	0	13	PAINT PREPARATION (Primer & Putty Coats)	20JUN88	3JUL88	28JUN88	11JUL88	7
216H019A55	12	12	0	14	PAINT PREPARATION (Primer & Putty Coats)	23JUN88	6JUL88	3JUL88	16JUL88	8
216H018A55	12	12	0	15	PAINT PREPARATION (Primer & Putty Coats)	28JUN88	11JUL88	7JUL88	20JUL88	8
218H015A55	12	12	0	16	PAINT PREPARATION (Primer & Putty Coats)	2JUL88	14JUL88	12JUL88	25JUL88	9
218H014A55	12	12	0	17	PAINT PREPARATION (Primer & Putty Coats)	6JUL88	19JUL88	17JUL88	30JUL88	9
218H013A55	12	12	0	18	PAINT PREPARATION (Primer & Putty Coats)	10JUL88	23JUL88	21JUL88	3AUG88	10
322H188A55	12	12	0	19	PAINT PREPARATION (Primer & Putty Coats)	14JUL88	27JUL88	26JUL88	9AUG88	10

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR99*

18:31
Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 24

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
322H189A55	12	12	0	20	PAINT PREPARATION (Primer & Putty Coats)	18JUL88	31JUL88	31JUL88	14AUG88	11
322H190A55	12	12	0	21	PAINT PREPARATION (Primer & Putty Coats)	23JUL88	6AUG88	6AUG88	18AUG88	11
216H021A55	12	12	0	22	PAINT PREPARATION (Primer & Putty Coats)	27JUL88	10AUG88	10AUG88	23AUG88	11
219H010A55	12	12	0	23	PAINT PREPARATION (Primer & Putty Coats)	1AUG88	15AUG88	15AUG88	29AUG88	11
220H007A55	12	12	0	24	PAINT PREPARATION (Primer & Putty Coats)	7AUG88	20AUG88	20AUG88	3SEP88	11
213H015A55	12	12	0	25	PAINT PREPARATION (Primer & Putty Coats)	11AUG88	24AUG88	24AUG88	7SEP88	11
213H016A55	12	12	0	26	PAINT PREPARATION (Primer & Putty Coats)	16AUG88	30AUG88	30AUG88	12SEP88	11
213H017A55	12	12	0	27	PAINT PREPARATION (Primer & Putty Coats)	21AUG88	4SEP88	4SEP88	17SEP88	11
213H021A55	12	12	0	28	PAINT PREPARATION (Primer & Putty Coats)	27AUG88	8SEP88	8SEP88	21SEP88	11
213H033A55	12	12	0	29	PAINT PREPARATION (Primer & Putty Coats)	31AUG88	13SEP88	13SEP88	26SEP88	11
213H034A55	12	12	0	30	PAINT PREPARATION (Primer & Putty Coats)	5SEP88	18SEP88	18SEP88	1OCT88	11
219H011A55	12	12	0	31	PAINT PREPARATION (Primer & Putty Coats)	10SEP88	23SEP88	23SEP88	5OCT88	11
219H012A55	12	12	0	32	PAINT PREPARATION (Primer & Putty Coats)	14SEP88	27SEP88	27SEP88	10OCT88	11
217H017A55	12	12	0	33	PAINT PREPARATION (Primer & Putty Coats)	19SEP88	2OCT88	2OCT88	15OCT88	11
217H016A55	12	12	0	34	PAINT PREPARATION (Primer & Putty Coats)	24SEP88	6OCT88	6OCT88	19OCT88	11
221H003A55	12	12	0	35	PAINT PREPARATION (Primer & Putty Coats)	28SEP88	11OCT88	11OCT88	24OCT88	11
221H002A55	12	12	0	36	PAINT PREPARATION (Primer & Putty Coats)	3OCT88	16OCT88	16OCT88	29OCT88	11
221H001A55	12	12	0	37	PAINT PREPARATION (Primer & Putty Coats)	8OCT88	20OCT88	20OCT88	2NOV88	11
220H009A55	12	12	0	38	PAINT PREPARATION (Primer & Putty Coats)	12OCT88	25OCT88	25OCT88	7NOV88	11
220H008A55	12	12	0	39	PAINT PREPARATION (Primer & Putty Coats)	17OCT88	30OCT88	30OCT88	12NOV88	11
220H006A55	12	12	0	40	PAINT PREPARATION (Primer & Putty Coats)	22OCT88	3NOV88	3NOV88	16NOV88	11
220H005A55	12	12	0	41	PAINT PREPARATION (Primer & Putty Coats)	26OCT88	8NOV88	8NOV88	21NOV88	11
220H004A55	12	12	0	42	PAINT PREPARATION (Primer & Putty Coats)	31OCT88	13NOV88	13NOV88	26NOV88	11
220H176A55	12	12	0	43	PAINT PREPARATION (Primer & Putty Coats)	5NOV88	17NOV88	17NOV88	30NOV88	11
220H177A55	12	12	0	44	PAINT PREPARATION (Primer & Putty Coats)	9NOV88	22NOV88	22NOV88	5DEC88	11
220H178A55	12	12	0	45	PAINT PREPARATION (Primer & Putty Coats)	14NOV88	27NOV88	26NOV88	8DEC88	10
215H027A55	12	12	0	46	PAINT PREPARATION (Primer & Putty Coats)	19NOV88	1DEC88	29NOV88	12DEC88	9
215H026A55	12	12	0	47	PAINT PREPARATION (Primer & Putty Coats)	23NOV88	6DEC88	3DEC88	15DEC88	8
215H025A55	12	12	0	48	PAINT PREPARATION (Primer & Putty Coats)	28NOV88	11DEC88	6DEC88	19DEC88	7
215H024A55	12	12	0	49	PAINT PREPARATION (Primer & Putty Coats)	3DEC88	15DEC88	10DEC88	22DEC88	6
215H023A55	12	12	0	50	PAINT PREPARATION (Primer & Putty Coats)	7DEC88	20DEC88	13DEC88	26DEC88	5
215H022A55	12	12	0	51	PAINT PREPARATION (Primer & Putty Coats)	12DEC88	25DEC88	17DEC88	29DEC88	4
211H043A56	7	7	0	01	WATER TANK & EXPOSED ROOF PIPING	8MAY88	15MAY88	21MAY88	28MAY88	11
211H042A56	7	7	0	02	WATER TANK & EXPOSED ROOF PIPING	10MAY88	17MAY88	25MAY88	2JUN88	13
211H174A56	7	7	0	03	WATER TANK & EXPOSED ROOF PIPING	16MAY88	23MAY88	31MAY88	7JUN88	12
211H175A56	7	7	0	04	WATER TANK & EXPOSED ROOF PIPING	19MAY88	26MAY88	5JUN88	12JUN88	13
211H044A56	7	7	0	05	WATER TANK & EXPOSED ROOF PIPING	24MAY88	1JUN88	9JUN88	16JUN88	13
223H185A56	7	7	0	06	WATER TANK & EXPOSED ROOF PIPING	28MAY88	5JUN88	14JUN88	21JUN88	14
223H186A56	7	7	0	07	WATER TANK & EXPOSED ROOF PIPING	2JUN88	9JUN88	19JUN88	26JUN88	14
214H030A56	7	7	0	08	WATER TANK & EXPOSED ROOF PIPING	6JUN88	13JUN88	23JUN88	30JUN88	15
214H029A56	7	7	0	09	WATER TANK & EXPOSED ROOF PIPING	11JUN88	18JUN88	28JUN88	5JUL88	15
214H028A56	7	7	0	10	WATER TANK & EXPOSED ROOF PIPING	14JUN88	21JUN88	3JUL88	10JUL88	16
214H027A56	7	7	0	11	WATER TANK & EXPOSED ROOF PIPING	19JUN88	26JUN88	7JUL88	14JUL88	16
214H031A56	7	7	0	12	WATER TANK & EXPOSED ROOF PIPING	22JUN88	29JUN88	12JUL88	19JUL88	17
216H020A56	7	7	0	13	WATER TANK & EXPOSED ROOF PIPING	27JUN88	4JUL88	17JUL88	24JUL88	17
216H019A56	7	7	0	14	WATER TANK & EXPOSED ROOF PIPING	30JUN88	7JUL88	21JUL88	28JUL88	18
216H018A56	7	7	0	15	WATER TANK & EXPOSED ROOF PIPING	5JUL88	12JUL88	26JUL88	2AUG88	18
218H015A56	7	7	0	16	WATER TANK & EXPOSED ROOF PIPING	9JUL88	16JUL88	31JUL88	8AUG88	19
218H014A56	7	7	0	17	WATER TANK & EXPOSED ROOF PIPING	13JUL88	20JUL88	6AUG88	13AUG88	19
218H013A56	7	7	0	18	WATER TANK & EXPOSED ROOF PIPING	17JUL88	24JUL88	10AUG88	17AUG88	20
222H188A56	7	7	0	19	WATER TANK & EXPOSED ROOF PIPING	21JUL88	28JUL88	15AUG88	22AUG88	20
222H189A56	7	7	0	20	WATER TANK & EXPOSED ROOF PIPING	25JUL88	1AUG88	20AUG88	28AUG88	21
222H190A56	7	7	0	21	WATER TANK & EXPOSED ROOF PIPING	30JUL88	7AUG88	24AUG88	1SEP88	21
216H021A56	7	7	0	22	WATER TANK & EXPOSED ROOF PIPING	2AUG88	10AUG88	30AUG88	6SEP88	22
219H010A56	7	7	0	23	WATER TANK & EXPOSED ROOF PIPING	8AUG88	15AUG88	4SEP88	11SEP88	22
220H007A56	7	7	0	24	WATER TANK & EXPOSED ROOF PIPING	11AUG88	18AUG88	8SEP88	15SEP88	23
213H035A56	7	7	0	25	WATER TANK & EXPOSED ROOF PIPING	16AUG88	23AUG88	13SEP88	20SEP88	23
213H036A56	7	7	0	26	WATER TANK & EXPOSED ROOF PIPING	20AUG88	28AUG88	18SEP88	25SEP88	24
213H037A56	7	7	0	27	WATER TANK & EXPOSED ROOF PIPING	24AUG88	1SEP88	22SEP88	29SEP88	24
213H038A56	7	7	0	28	WATER TANK & EXPOSED ROOF PIPING	29AUG88	6SEP88	27SEP88	4OCT88	25
213H039A56	7	7	0	29	WATER TANK & EXPOSED ROOF PIPING	3SEP88	10SEP88	2OCT88	9OCT88	25
213H040A56	7	7	0	30	WATER TANK & EXPOSED ROOF PIPING	6SEP88	13SEP88	6OCT88	13OCT88	26
219H011A56	7	7	0	31	WATER TANK & EXPOSED ROOF PIPING	11SEP88	18SEP88	11OCT88	18OCT88	26
219H012A56	7	7	0	32	WATER TANK & EXPOSED ROOF PIPING	15SEP88	21SEP88	16OCT88	23OCT88	27
217H017A56	7	7	0	33	WATER TANK & EXPOSED ROOF PIPING	19SEP88	26SEP88	20OCT88	27OCT88	27
217H016A56	7	7	0	34	WATER TANK & EXPOSED ROOF PIPING	22SEP88	29SEP88	25OCT88	1NOV88	28
221H003A56	7	7	0	35	WATER TANK & EXPOSED ROOF PIPING	27SEP88	4OCT88	29OCT88	5NOV88	27
221H002A56	7	7	0	36	WATER TANK & EXPOSED ROOF PIPING	1OCT88	8OCT88	2NOV88	9NOV88	28
221H001A56	7	7	0	37	WATER TANK & EXPOSED ROOF PIPING	5OCT88	12OCT88	6NOV88	13NOV88	27
220H009A56	7	7	0	38	WATER TANK & EXPOSED ROOF PIPING	9OCT88	16OCT88	10NOV88	17NOV88	28
220H008A56	7	7	0	39	WATER TANK & EXPOSED ROOF PIPING	13OCT88	20OCT88	14NOV88	21NOV88	27
220H006A56	7	7	0	40	WATER TANK & EXPOSED ROOF PIPING	17OCT88	24OCT88	19NOV88	26NOV88	28
220H005A56	7	7	0	41	WATER TANK & EXPOSED ROOF PIPING	22OCT88	29OCT88	22NOV88	29NOV88	27
220H004A56	7	7	0	42	WATER TANK & EXPOSED ROOF PIPING	25OCT88	1NOV88	27NOV88	4DEC88	28
220H176A56	7	7	0	43	WATER TANK & EXPOSED ROOF PIPING	30OCT88	6NOV88	30NOV88	7DEC88	27
220H177A56	7	7	0	44	WATER TANK & EXPOSED ROOF PIPING	7NOV88	14NOV88	8DEC88	15DEC88	28
220H178A56	7	7	0	45	WATER TANK & EXPOSED ROOF PIPING	10NOV88	17NOV88	13DEC88	20DEC88	28
215H027A56	7	7	0	46	WATER TANK & EXPOSED ROOF PIPING	15NOV88	22NOV88	17DEC88	24DEC88	27
215H026A56	7	7	0	47	WATER TANK & EXPOSED ROOF PIPING	19NOV88	26NOV88	21DEC88	28DEC88	28
215H025A56	7	7	0	48	WATER TANK & EXPOSED ROOF PIPING	23NOV88	30NOV88	25DEC88	2JAN89	27
215H024A56	7	7	0	49	WATER TANK & EXPOSED ROOF PIPING	27NOV88	4DEC88	29DEC88	7JAN89	28
215H023A56	7	7	0	50	WATER TANK & EXPOSED ROOF PIPING	1DEC88	8DEC88	3JAN89	10JAN89	27
211H043A57	7	7	0	01	YARD ELECTRICAL PIPES & HANDHOLES	15MAY88	22MAY88	28MAY88	5JUN88	11
211H042A57	7	7	0	02	YARD ELECTRICAL PIPES & HANDHOLES	15MAY88	22MAY88	1JUN88	8JUN88	14
211H174A57	7	7	0	03	YARD ELECTRICAL PIPES & HANDHOLES	22MAY88	29MAY88	5JUN88	12JUN88	11
211H175A57	7	7	0	04	YARD ELECTRICAL PIPES & HANDHOLES	25MAY88	2JUN88	8JUN88	15JUN88	11
211H044A57	7	7	0	05	YARD ELECTRICAL PIPES & HANDHOLES	29MAY88	6JUN88	12JUN88	19JUN88	11
223H185A57	7	7	0	06	YARD ELECTRICAL PIPES & HANDHOLES	2JUN88	9JUN88	15JUN88	22JUN88	11
223H186A57	7	7	0	07	YARD ELECTRICAL PIPES & HANDHOLES	6JUN88	13JUN88	19JUN88	26JUN88	11
223H187A57	7	7	0	08	YARD ELECTRICAL PIPES & HANDHOLES	9JUN88	16JUN88	22JUN88	29JUN88	11
214H030A57	7	7	0	09	YARD ELECTRICAL PIPES & HANDHOLES	13JUN88	20JUN88	26JUN88	3JUL88	11
214H029A57	7	7	0	10	YARD ELECTRICAL PIPES & HANDHOLES	16JUN88	23JUN88	29JUN88	6JUL88	11
214H028A57	7	7	0	11	YARD ELECTRICAL PIPES & HANDHOLES	20JUN88	27JUN88	3JUL88	10JUL88	11
214H031A57	7	7	0	12	YARD ELECTRICAL PIPES & HANDHOLES	23JUN88	30JUN88	6JUL88	13JUL88	11
216H020A57	7	7	0	13	YARD ELECTRICAL PIPES & HANDHOLES	27JUN88	4JUL88	10JUL88	17JUL88	11

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 25

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
216H019AS7	7	7	0	14	YARD ELECTRICAL PIPES & HANDHOLES	30JUN88	7JUL88	13JUL88	20JUL88	11
216H018AS7	7	7	0	15	YARD ELECTRICAL PIPES & HANDHOLES	4JUL88	11JUL88	17JUL88	24JUL88	11
218H015AS7	7	7	0	16	YARD ELECTRICAL PIPES & HANDHOLES	7JUL88	14JUL88	20JUL88	27JUL88	11
218H014AS7	7	7	0	17	YARD ELECTRICAL PIPES & HANDHOLES	11JUL88	18JUL88	24JUL88	31JUL88	11
218H013AS7	7	7	0	18	YARD ELECTRICAL PIPES & HANDHOLES	14JUL88	21JUL88	27JUL88	3AUG88	11
322H188AS7	7	7	0	19	YARD ELECTRICAL PIPES & HANDHOLES	18JUL88	25JUL88	31JUL88	8AUG88	11
322H189AS7	7	7	0	20	YARD ELECTRICAL PIPES & HANDHOLES	21JUL88	28JUL88	3AUG88	11AUG88	11
322H190AS7	7	7	0	21	YARD ELECTRICAL PIPES & HANDHOLES	25JUL88	1AUG88	8AUG88	15AUG88	11
216H021AS7	7	7	0	22	YARD ELECTRICAL PIPES & HANDHOLES	28JUL88	6AUG88	11AUG88	18AUG88	11
219H010AS7	7	7	0	23	YARD ELECTRICAL PIPES & HANDHOLES	1AUG88	9AUG88	15AUG88	22AUG88	11
220H007AS7	7	7	0	24	YARD ELECTRICAL PIPES & HANDHOLES	6AUG88	13AUG88	18AUG88	27AUG88	11
213H035AS7	7	7	0	25	YARD ELECTRICAL PIPES & HANDHOLES	9AUG88	16AUG88	22AUG88	30AUG88	11
213H036AS7	7	7	0	26	YARD ELECTRICAL PIPES & HANDHOLES	13AUG88	20AUG88	27AUG88	3SEP88	11
213H037AS7	7	7	0	27	YARD ELECTRICAL PIPES & HANDHOLES	16AUG88	23AUG88	30AUG88	6SEP88	11
313H032AS7	7	7	0	28	YARD ELECTRICAL PIPES & HANDHOLES	20AUG88	28AUG88	3SEP88	10SEP88	11
213H033AS7	7	7	0	29	YARD ELECTRICAL PIPES & HANDHOLES	23AUG88	31AUG88	6SEP88	13SEP88	11
213H034AS7	7	7	0	30	YARD ELECTRICAL PIPES & HANDHOLES	28AUG88	4SEP88	10SEP88	17SEP88	11
219H011AS7	7	7	0	31	YARD ELECTRICAL PIPES & HANDHOLES	1SEP88	8SEP88	13SEP88	20SEP88	10
219H012AS7	7	7	0	32	YARD ELECTRICAL PIPES & HANDHOLES	4SEP88	11SEP88	17SEP88	24SEP88	11
217H017AS7	7	7	0	33	YARD ELECTRICAL PIPES & HANDHOLES	10SEP88	17SEP88	20SEP88	27SEP88	9
217H016AS7	7	7	0	34	YARD ELECTRICAL PIPES & HANDHOLES	11SEP88	18SEP88	24SEP88	1OCT88	11
221H003AS7	7	7	0	35	YARD ELECTRICAL PIPES & HANDHOLES	18SEP88	25SEP88	27SEP88	4OCT88	8
221H002AS7	7	7	0	36	YARD ELECTRICAL PIPES & HANDHOLES	18SEP88	25SEP88	1OCT88	8OCT88	11
221H001AS7	7	7	0	37	YARD ELECTRICAL PIPES & HANDHOLES	26SEP88	3OCT88	4OCT88	11OCT88	7
220H009AS7	7	7	0	38	YARD ELECTRICAL PIPES & HANDHOLES	26SEP88	3OCT88	8OCT88	15OCT88	10
220H008AS7	7	7	0	39	YARD ELECTRICAL PIPES & HANDHOLES	4OCT88	11OCT88	11OCT88	18OCT88	6
220H006AS7	7	7	0	40	YARD ELECTRICAL PIPES & HANDHOLES	4OCT88	11OCT88	15OCT88	22OCT88	9
220H005AS7	7	7	0	41	YARD ELECTRICAL PIPES & HANDHOLES	12OCT88	19OCT88	19OCT88	25OCT88	5
220H004AS7	7	7	0	42	YARD ELECTRICAL PIPES & HANDHOLES	12OCT88	19OCT88	22OCT88	29OCT88	8
320H176AS7	7	7	0	43	YARD ELECTRICAL PIPES & HANDHOLES	20OCT88	27OCT88	25OCT88	1NOV88	4
320H177AS7	7	7	0	44	YARD ELECTRICAL PIPES & HANDHOLES	20OCT88	27OCT88	29OCT88	5NOV88	7
320H178AS7	7	7	0	45	YARD ELECTRICAL PIPES & HANDHOLES	29OCT88	5NOV88	1NOV88	8NOV88	3
215H027AS7	7	7	0	46	YARD ELECTRICAL PIPES & HANDHOLES	3OCT88	6NOV88	5NOV88	12NOV88	5
215H026AS7	7	7	0	47	YARD ELECTRICAL PIPES & HANDHOLES	6NOV88	13NOV88	8NOV88	15NOV88	2
215H025AS7	7	7	0	48	YARD ELECTRICAL PIPES & HANDHOLES	6NOV88	13NOV88	12NOV88	19NOV88	5
215H024AS7	7	7	0	49	YARD ELECTRICAL PIPES & HANDHOLES	14NOV88	21NOV88	15NOV88	22NOV88	1
215H023AS7	7	7	0	50	YARD ELECTRICAL PIPES & HANDHOLES	15NOV88	22NOV88	19NOV88	26NOV88	3
215H022AS7	7	7	0	51	YARD ELECTRICAL PIPES & HANDHOLES	22NOV88	29NOV88	22NOV88	29NOV88	0
211H043AS8	6	6	0	01	SANITARY HOUSE CONNECTION	15MAY88	21MAY88	29MAY88	5JUN88	12
211H042AS8	6	6	0	02	SANITARY HOUSE CONNECTION	15MAY88	21MAY88	2JUN88	8JUN88	15
321H174AS8	6	6	0	03	SANITARY HOUSE CONNECTION	22MAY88	28MAY88	6JUN88	12JUN88	12
321H175AS8	6	6	0	04	SANITARY HOUSE CONNECTION	25MAY88	1JUN88	9JUN88	15JUN88	12
211H044AS8	6	6	0	05	SANITARY HOUSE CONNECTION	29MAY88	5JUN88	13JUN88	19JUN88	12
323H185AS8	6	6	0	06	SANITARY HOUSE CONNECTION	2JUN88	8JUN88	16JUN88	22JUN88	12
323H186AS8	6	6	0	07	SANITARY HOUSE CONNECTION	6JUN88	12JUN88	20JUN88	26JUN88	12
323H187AS8	6	6	0	08	SANITARY HOUSE CONNECTION	9JUN88	15JUN88	23JUN88	29JUN88	12
214H030AS8	6	6	0	09	SANITARY HOUSE CONNECTION	13JUN88	19JUN88	27JUN88	3JUL88	12
214H029AS8	6	6	0	10	SANITARY HOUSE CONNECTION	16JUN88	22JUN88	30JUN88	6JUL88	12
214H028AS8	6	6	0	11	SANITARY HOUSE CONNECTION	20JUN88	26JUN88	4JUL88	10JUL88	12
214H031AS8	6	6	0	12	SANITARY HOUSE CONNECTION	23JUN88	29JUN88	7JUL88	13JUL88	12
216H020AS8	6	6	0	13	SANITARY HOUSE CONNECTION	27JUN88	3JUL88	11JUL88	17JUL88	12
216H019AS8	6	6	0	14	SANITARY HOUSE CONNECTION	30JUN88	6JUL88	14JUL88	20JUL88	12
216H018AS8	6	6	0	15	SANITARY HOUSE CONNECTION	4JUL88	10JUL88	18JUL88	24JUL88	12
218H015AS8	6	6	0	16	SANITARY HOUSE CONNECTION	7JUL88	13JUL88	21JUL88	27JUL88	12
218H014AS8	6	6	0	17	SANITARY HOUSE CONNECTION	11JUL88	17JUL88	25JUL88	31JUL88	12
218H013AS8	6	6	0	18	SANITARY HOUSE CONNECTION	14JUL88	20JUL88	28JUL88	3AUG88	12
322H188AS8	6	6	0	19	SANITARY HOUSE CONNECTION	18JUL88	24JUL88	1AUG88	8AUG88	12
322H189AS8	6	6	0	20	SANITARY HOUSE CONNECTION	21JUL88	27JUL88	6AUG88	11AUG88	12
322H190AS8	6	6	0	21	SANITARY HOUSE CONNECTION	25JUL88	31JUL88	9AUG88	15AUG88	12
216H021AS8	6	6	0	22	SANITARY HOUSE CONNECTION	28JUL88	3AUG88	13AUG88	18AUG88	12
219H010AS8	6	6	0	23	SANITARY HOUSE CONNECTION	1AUG88	8AUG88	16AUG88	22AUG88	12
220H007AS8	6	6	0	24	SANITARY HOUSE CONNECTION	6AUG88	11AUG88	20AUG88	27AUG88	12
213H035AS8	6	6	0	25	SANITARY HOUSE CONNECTION	9AUG88	15AUG88	23AUG88	30AUG88	12
213H036AS8	6	6	0	26	SANITARY HOUSE CONNECTION	13AUG88	19AUG88	28AUG88	3SEP88	12
213H037AS8	6	6	0	27	SANITARY HOUSE CONNECTION	16AUG88	22AUG88	31AUG88	6SEP88	12
313H032AS8	6	6	0	28	SANITARY HOUSE CONNECTION	20AUG88	28AUG88	4SEP88	10SEP88	12
213H033AS8	6	6	0	29	SANITARY HOUSE CONNECTION	23AUG88	30AUG88	7SEP88	13SEP88	12
213H034AS8	6	6	0	30	SANITARY HOUSE CONNECTION	28AUG88	3SEP88	11SEP88	17SEP88	12
219H011AS8	6	6	0	31	SANITARY HOUSE CONNECTION	1SEP88	7SEP88	14SEP88	20SEP88	11
219H012AS8	6	6	0	32	SANITARY HOUSE CONNECTION	4SEP88	10SEP88	18SEP88	24SEP88	12
217H017AS8	6	6	0	33	SANITARY HOUSE CONNECTION	10SEP88	17SEP88	21SEP88	27SEP88	10
217H016AS8	6	6	0	34	SANITARY HOUSE CONNECTION	11SEP88	18SEP88	25SEP88	1OCT88	12
221H003AS8	6	6	0	35	SANITARY HOUSE CONNECTION	18SEP88	25SEP88	28SEP88	4OCT88	9
221H002AS8	6	6	0	36	SANITARY HOUSE CONNECTION	18SEP88	25SEP88	2OCT88	8OCT88	12
221H001AS8	6	6	0	37	SANITARY HOUSE CONNECTION	26SEP88	3OCT88	5OCT88	11OCT88	8
220H009AS8	6	6	0	38	SANITARY HOUSE CONNECTION	26SEP88	3OCT88	9OCT88	15OCT88	11
220H008AS8	6	6	0	39	SANITARY HOUSE CONNECTION	4OCT88	10OCT88	12OCT88	18OCT88	7
220H006AS8	6	6	0	40	SANITARY HOUSE CONNECTION	4OCT88	10OCT88	16OCT88	22OCT88	10
220H005AS8	6	6	0	41	SANITARY HOUSE CONNECTION	12OCT88	19OCT88	19OCT88	25OCT88	6
220H004AS8	6	6	0	42	SANITARY HOUSE CONNECTION	12OCT88	19OCT88	23OCT88	29OCT88	9
320H176AS8	6	6	0	43	SANITARY HOUSE CONNECTION	20OCT88	26OCT88	26OCT88	1NOV88	5
320H177AS8	6	6	0	44	SANITARY HOUSE CONNECTION	20OCT88	26OCT88	30OCT88	5NOV88	8
320H178AS8	6	6	0	45	SANITARY HOUSE CONNECTION	29OCT88	5NOV88	2NOV88	8NOV88	4
215H027AS8	6	6	0	46	SANITARY HOUSE CONNECTION	30OCT88	5NOV88	6NOV88	12NOV88	6
215H026AS8	6	6	0	47	SANITARY HOUSE CONNECTION	6NOV88	12NOV88	9NOV88	15NOV88	3
215H025AS8	6	6	0	48	SANITARY HOUSE CONNECTION	6NOV88	12NOV88	13NOV88	19NOV88	6
215H024AS8	6	6	0	49	SANITARY HOUSE CONNECTION	14NOV88	20NOV88	16NOV88	22NOV88	2
215H023AS8	6	6	0	50	SANITARY HOUSE CONNECTION	15NOV88	21NOV88	20NOV88	26NOV88	4
215H022AS8	6	6	0	51	SANITARY HOUSE CONNECTION	22NOV88	29NOV88	23NOV88	29NOV88	1
211H043AS9	6	6	0	01	ROOF MASTIC & TOUCH-UPS	16MAY88	22MAY88	20JUL88	26JUL88	55
211H042AS9	6	6	0	02	ROOF MASTIC & TOUCH-UPS	18MAY88	24MAY88	25JUL88	31JUL88	57
321H174AS9	6	6	0	03	ROOF MASTIC & TOUCH-UPS	24MAY88	31MAY88	27JUL88	2AUG88	54
321H175AS9	6	6	0	04	ROOF MASTIC & TOUCH-UPS	28MAY88	4JUN88	1AUG88	8AUG88	55
211H044AS9	6	6	0	05	ROOF MASTIC & TOUCH-UPS	2JUN88	8JUN88	3AUG88	10AUG88	53
323H185AS9	6	6	0	06	ROOF MASTIC & TOUCH-UPS	6JUN88	12JUN88	9AUG88	15AUG88	54
323H186AS9	6	6	0	07	ROOF MASTIC & TOUCH-UPS	11JUN88	16JUN88	11AUG88	17AUG88	52

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.

PRIMAVERA PROJECT PLANNER

Correcting Out-of-Logic Progress NSQ

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 26

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
323H187A59	6	6	0	08	ROOF MASTIC & TOUCH-UPS	14JUN88	20JUN88	16AUG88	22AUG88	53
214H030A59	6	6	0	09	ROOF MASTIC & TOUCH-UPS	19JUN88	25JUN88	18AUG88	24AUG88	51
214H029A59	6	6	0	10	ROOF MASTIC & TOUCH-UPS	22JUN88	28JUN88	23AUG88	30AUG88	52
214H028A59	6	6	0	11	ROOF MASTIC & TOUCH-UPS	27JUN88	3JUL88	27AUG88	1SEP88	50
214H031A59	6	6	0	12	ROOF MASTIC & TOUCH-UPS	30JUN88	6JUL88	31AUG88	6SEP88	51
216H020A59	6	6	0	13	ROOF MASTIC & TOUCH-UPS	5JUL88	11JUL88	3SEP88	8SEP88	49
216H019A59	6	6	0	14	ROOF MASTIC & TOUCH-UPS	9JUL88	14JUL88	7SEP88	13SEP88	50
216H018A59	6	6	0	15	ROOF MASTIC & TOUCH-UPS	13JUL88	19JUL88	10SEP88	15SEP88	48
218H015A59	6	6	0	16	ROOF MASTIC & TOUCH-UPS	17JUL88	23JUL88	14SEP88	20SEP88	49
218H014A59	6	6	0	17	ROOF MASTIC & TOUCH-UPS	21JUL88	27JUL88	17SEP88	22SEP88	47
218H013A59	6	6	0	18	ROOF MASTIC & TOUCH-UPS	25JUL88	31JUL88	21SEP88	27SEP88	48
322H188A59	6	6	0	19	ROOF MASTIC & TOUCH-UPS	30JUL88	6AUG88	24SEP88	29SEP88	46
322H189A59	6	6	0	20	ROOF MASTIC & TOUCH-UPS	2AUG88	9AUG88	28SEP88	4OCT88	47
322H190A59	6	6	0	21	ROOF MASTIC & TOUCH-UPS	8AUG88	14AUG88	1OCT88	6OCT88	45
326H021A59	6	6	0	22	ROOF MASTIC & TOUCH-UPS	11AUG88	17AUG88	5OCT88	11OCT88	46
219H010A59	6	6	0	23	ROOF MASTIC & TOUCH-UPS	16AUG88	22AUG88	8OCT88	13OCT88	44
220H007A59	6	6	0	24	ROOF MASTIC & TOUCH-UPS	20AUG88	27AUG88	12OCT88	18OCT88	45
213H035A59	6	6	0	25	ROOF MASTIC & TOUCH-UPS	24AUG88	31AUG88	15OCT88	20OCT88	43
213H036A59	6	6	0	26	ROOF MASTIC & TOUCH-UPS	29AUG88	4SEP88	19OCT88	25OCT88	44
213H037A59	6	6	0	27	ROOF MASTIC & TOUCH-UPS	3SEP88	8SEP88	22OCT88	27OCT88	42
213H032A59	6	6	0	28	ROOF MASTIC & TOUCH-UPS	6SEP88	12SEP88	26OCT88	1NOV88	43
213H033A59	6	6	0	29	ROOF MASTIC & TOUCH-UPS	11SEP88	17SEP88	29OCT88	3NOV88	41
213H034A59	6	6	0	30	ROOF MASTIC & TOUCH-UPS	14SEP88	20SEP88	2NOV88	8NOV88	42
219H011A59	6	6	0	31	ROOF MASTIC & TOUCH-UPS	19SEP88	25SEP88	5NOV88	10NOV88	40
219H012A59	6	6	0	32	ROOF MASTIC & TOUCH-UPS	22SEP88	28SEP88	9NOV88	15NOV88	41
217H017A59	6	6	0	33	ROOF MASTIC & TOUCH-UPS	27SEP88	3OCT88	12NOV88	17NOV88	39
217H016A59	6	6	0	34	ROOF MASTIC & TOUCH-UPS	1OCT88	6OCT88	16NOV88	22NOV88	40
221H003A59	6	6	0	35	ROOF MASTIC & TOUCH-UPS	5OCT88	11OCT88	19NOV88	24NOV88	38
221H002A59	6	6	0	36	ROOF MASTIC & TOUCH-UPS	9OCT88	15OCT88	23NOV88	29NOV88	39
221H001A59	6	6	0	37	ROOF MASTIC & TOUCH-UPS	13OCT88	19OCT88	26NOV88	1DEC88	37
220H009A59	6	6	0	38	ROOF MASTIC & TOUCH-UPS	17OCT88	23OCT88	30NOV88	6DEC88	38
220H008A59	6	6	0	39	ROOF MASTIC & TOUCH-UPS	22OCT88	27OCT88	3DEC88	8DEC88	36
220H006A59	6	6	0	40	ROOF MASTIC & TOUCH-UPS	25OCT88	31OCT88	7DEC88	13DEC88	37
220H005A59	6	6	0	41	ROOF MASTIC & TOUCH-UPS	30OCT88	5NOV88	10DEC88	15DEC88	35
220H004A59	6	6	0	42	ROOF MASTIC & TOUCH-UPS	2NOV88	8NOV88	14DEC88	20DEC88	36
320H176A59	6	6	0	43	ROOF MASTIC & TOUCH-UPS	7NOV88	13NOV88	17DEC88	22DEC88	34
320H177A59	6	6	0	44	ROOF MASTIC & TOUCH-UPS	10NOV88	16NOV88	21DEC88	27DEC88	35
320H178A59	6	6	0	45	ROOF MASTIC & TOUCH-UPS	15NOV88	21NOV88	24DEC88	29DEC88	33
215H027A59	6	6	0	46	ROOF MASTIC & TOUCH-UPS	19NOV88	24NOV88	28DEC88	4JAN89	34
215H026A59	6	6	0	47	ROOF MASTIC & TOUCH-UPS	23NOV88	29NOV88	31DEC88	7JAN89	32
215H025A59	6	6	0	48	ROOF MASTIC & TOUCH-UPS	27NOV88	3DEC88	5JAN89	11JAN89	33
215H024A59	6	6	0	49	ROOF MASTIC & TOUCH-UPS	1DEC88	7DEC88	8JAN89	14JAN89	31
215H023A59	6	6	0	50	ROOF MASTIC & TOUCH-UPS	5DEC88	11DEC88	12JAN89	18JAN89	32
215H022A59	6	6	0	51	ROOF MASTIC & TOUCH-UPS	10DEC88	15DEC88	15JAN89	21JAN89	30
211H043A60	4	4	0	01	WATER TANK SHED	16MAY88	19MAY88	29MAY88	2JUN88	11
211H042A60	4	4	0	02	WATER TANK SHED	21MAY88	24MAY88	4JUN88	7JUN88	11
321H174A60	4	4	0	03	WATER TANK SHED	25MAY88	29MAY88	8JUN88	12JUN88	11
321H175A60	4	4	0	04	WATER TANK SHED	31MAY88	4JUN88	13JUN88	16JUN88	11
211H044A60	4	4	0	05	WATER TANK SHED	5JUN88	8JUN88	18JUN88	21JUN88	11
323H185A60	4	4	0	06	WATER TANK SHED	9JUN88	13JUN88	22JUN88	26JUN88	11
323H186A60	4	4	0	07	WATER TANK SHED	14JUN88	18JUN88	27JUN88	30JUN88	11
323H187A60	4	4	0	08	WATER TANK SHED	19JUN88	22JUN88	2JUL88	5JUL88	11
214H030A60	4	4	0	09	WATER TANK SHED	23JUN88	27JUN88	6JUL88	10JUL88	11
214H029A60	4	4	0	10	WATER TANK SHED	28JUN88	2JUL88	11JUL88	14JUL88	11
214H028A60	4	4	0	11	WATER TANK SHED	3JUL88	6JUL88	16JUL88	19JUL88	11
216H020A60	4	4	0	12	WATER TANK SHED	7JUL88	11JUL88	20JUL88	24JUL88	11
216H019A60	4	4	0	13	WATER TANK SHED	12JUL88	16JUL88	25JUL88	28JUL88	11
216H018A60	4	4	0	14	WATER TANK SHED	17JUL88	20JUL88	30JUL88	2AUG88	11
218H015A60	4	4	0	15	WATER TANK SHED	21JUL88	25JUL88	3AUG88	8AUG88	11
218H014A60	4	4	0	16	WATER TANK SHED	26JUL88	30JUL88	9AUG88	13AUG88	11
218H013A60	4	4	0	17	WATER TANK SHED	31JUL88	3AUG88	14AUG88	17AUG88	11
218H012A60	4	4	0	18	WATER TANK SHED	6AUG88	9AUG88	18AUG88	22AUG88	11
322H188A60	4	4	0	19	WATER TANK SHED	10AUG88	14AUG88	23AUG88	28AUG88	11
322H189A60	4	4	0	20	WATER TANK SHED	15AUG88	18AUG88	29AUG88	1SEP88	11
322H190A60	4	4	0	21	WATER TANK SHED	20AUG88	23AUG88	3SEP88	6SEP88	11
216H021A60	4	4	0	22	WATER TANK SHED	24AUG88	29AUG88	7SEP88	11SEP88	11
219H010A60	4	4	0	23	WATER TANK SHED	30AUG88	3SEP88	12SEP88	15SEP88	11
220H007A60	4	4	0	24	WATER TANK SHED	4SEP88	7SEP88	17SEP88	20SEP88	11
213H035A60	4	4	0	25	WATER TANK SHED	8SEP88	12SEP88	21SEP88	25SEP88	11
213H036A60	4	4	0	26	WATER TANK SHED	13SEP88	17SEP88	26SEP88	29SEP88	11
213H037A60	4	4	0	27	WATER TANK SHED	18SEP88	21SEP88	1OCT88	4OCT88	11
213H032A60	4	4	0	28	WATER TANK SHED	22SEP88	26SEP88	5OCT88	9OCT88	11
213H033A60	4	4	0	29	WATER TANK SHED	27SEP88	1OCT88	10OCT88	13OCT88	11
213H034A60	4	4	0	30	WATER TANK SHED	2OCT88	5OCT88	15OCT88	18OCT88	11
219H011A60	4	4	0	31	WATER TANK SHED	6OCT88	10OCT88	19OCT88	23OCT88	11
219H012A60	4	4	0	32	WATER TANK SHED	11OCT88	15OCT88	24OCT88	27OCT88	11
217H017A60	4	4	0	33	WATER TANK SHED	16OCT88	19OCT88	29OCT88	1NOV88	11
217H016A60	4	4	0	34	WATER TANK SHED	20OCT88	24OCT88	2NOV88	6NOV88	11
221H003A60	4	4	0	35	WATER TANK SHED	25OCT88	29OCT88	7NOV88	10NOV88	11
221H002A60	4	4	0	36	WATER TANK SHED	30OCT88	2NOV88	12NOV88	15NOV88	11
221H001A60	4	4	0	37	WATER TANK SHED	3NOV88	7NOV88	16NOV88	20NOV88	11
220H009A60	4	4	0	38	WATER TANK SHED	8NOV88	12NOV88	21NOV88	24NOV88	11
220H008A60	4	4	0	39	WATER TANK SHED	13NOV88	16NOV88	26NOV88	29NOV88	11
220H006A60	4	4	0	40	WATER TANK SHED	17NOV88	21NOV88	30NOV88	4DEC88	11
220H005A60	4	4	0	41	WATER TANK SHED	22NOV88	26NOV88	5DEC88	8DEC88	11
220H004A60	4	4	0	42	WATER TANK SHED	27NOV88	30NOV88	10DEC88	13DEC88	11
320H176A60	4	4	0	43	WATER TANK SHED	1DEC88	5DEC88	14DEC88	18DEC88	11
320H177A60	4	4	0	44	WATER TANK SHED	6DEC88	10DEC88	19DEC88	22DEC88	11
320H178A60	4	4	0	45	WATER TANK SHED	11DEC88	14DEC88	24DEC88	27DEC88	11
215H027A60	4	4	0	46	WATER TANK SHED	15DEC88	19DEC88	28DEC88	31DEC88	11
215H026A60	4	4	0	47	WATER TANK SHED	20DEC88	24DEC88	3JAN89	7JAN89	11
215H025A60	4	4	0	48	WATER TANK SHED	25DEC88	28DEC88	8JAN89	11JAN89	11
215H024A60	4	4	0	49	WATER TANK SHED	29DEC88	3JAN89	12JAN89	16JAN89	11
215H023A60	4	4	0	50	WATER TANK SHED	4JAN89	8JAN89	17JAN89	21JAN89	11
215H022A60	4	4	0	51	WATER TANK SHED	9JAN89	12JAN89	22JAN89	25JAN89	11
211H043A61	9	9	0	01	ALUMINUM FRAMES, WINDOWS & DOORS	15MAY88	24MAY88	6JUL88	16JUL88	44

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.				PRIMAVERA PROJECT PLANNER				Correcting Out-of-Logic Progress NSQ			
REPORT DATE 21SEP95 RUN NO. 205				SEVEN SEAS, CONSTRUCTION OF 51 HOUSES				START DATE 1APR87 FIN DATE 30MAR89*			
18:31											
Revd & Decel Schl by Typical Activity & ES								DATA DATE 1FEB88 PAGE NO. 27			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT	
211H042A61	9	9	0	02	ALUMINUM FRAMES, WINDOWS & DOORS	18MAY88	28MAY88	10JUL88	19JUL88	44	
321H174A61	9	9	0	03	ALUMINUM FRAMES, WINDOWS & DOORS	23MAY88	2JUN88	13JUL88	23JUL88	43	
321H175A61	9	9	0	04	ALUMINUM FRAMES, WINDOWS & DOORS	26MAY88	6JUN88	17JUL88	26JUL88	43	
211H044A61	9	9	0	05	ALUMINUM FRAMES, WINDOWS & DOORS	1JUN88	11JUN88	20JUL88	30JUL88	42	
323H185A61	9	9	0	06	ALUMINUM FRAMES, WINDOWS & DOORS	5JUN88	14JUN88	24JUL88	2AUG88	42	
323H186A61	9	9	0	07	ALUMINUM FRAMES, WINDOWS & DOORS	9JUN88	19JUN88	27JUL88	7AUG88	41	
323H187A61	9	9	0	08	ALUMINUM FRAMES, WINDOWS & DOORS	13JUN88	22JUN88	31JUL88	10AUG88	41	
214H030A61	9	9	0	09	ALUMINUM FRAMES, WINDOWS & DOORS	18JUN88	27JUN88	3AUG88	14AUG88	40	
214H029A61	9	9	0	10	ALUMINUM FRAMES, WINDOWS & DOORS	21JUN88	30JUN88	8AUG88	17AUG88	40	
214H028A61	9	9	0	11	ALUMINUM FRAMES, WINDOWS & DOORS	26JUN88	5JUL88	11AUG88	21AUG88	39	
214H031A61	9	9	0	12	ALUMINUM FRAMES, WINDOWS & DOORS	29JUN88	9JUL88	15AUG88	24AUG88	39	
216H020A61	9	9	0	13	ALUMINUM FRAMES, WINDOWS & DOORS	4JUL88	13JUL88	18AUG88	29AUG88	38	
216H019A61	9	9	0	14	ALUMINUM FRAMES, WINDOWS & DOORS	7JUL88	17JUL88	22AUG88	1SEP88	38	
216H018A61	9	9	0	15	ALUMINUM FRAMES, WINDOWS & DOORS	12JUL88	21JUL88	27AUG88	5SEP88	37	
218H015A61	9	9	0	16	ALUMINUM FRAMES, WINDOWS & DOORS	16JUL88	25JUL88	30AUG88	9SEP88	37	
218H014A61	9	9	0	17	ALUMINUM FRAMES, WINDOWS & DOORS	20JUL88	30JUL88	3SEP88	12SEP88	36	
218H013A61	9	9	0	18	ALUMINUM FRAMES, WINDOWS & DOORS	24JUL88	2AUG88	6SEP88	15SEP88	36	
222H188A61	9	9	0	19	ALUMINUM FRAMES, WINDOWS & DOORS	28JUL88	8AUG88	10SEP88	19SEP88	35	
222H189A61	9	9	0	20	ALUMINUM FRAMES, WINDOWS & DOORS	1AUG88	11AUG88	13SEP88	22SEP88	35	
222H190A61	9	9	0	21	ALUMINUM FRAMES, WINDOWS & DOORS	7AUG88	16AUG88	17SEP88	26SEP88	34	
216H021A61	9	9	0	22	ALUMINUM FRAMES, WINDOWS & DOORS	11AUG88	21AUG88	20SEP88	29SEP88	33	
219H010A61	9	9	0	23	ALUMINUM FRAMES, WINDOWS & DOORS	16AUG88	27AUG88	24SEP88	3OCT88	32	
220H007A61	9	9	0	24	ALUMINUM FRAMES, WINDOWS & DOORS	21AUG88	31AUG88	27SEP88	6OCT88	31	
213H035A61	9	9	0	25	ALUMINUM FRAMES, WINDOWS & DOORS	27AUG88	5SEP88	1OCT88	10OCT88	30	
213H036A61	9	9	0	26	ALUMINUM FRAMES, WINDOWS & DOORS	31AUG88	10SEP88	4OCT88	13OCT88	29	
213H037A61	9	9	0	27	ALUMINUM FRAMES, WINDOWS & DOORS	5SEP88	14SEP88	8OCT88	17OCT88	28	
213H032A61	9	9	0	28	ALUMINUM FRAMES, WINDOWS & DOORS	10SEP88	19SEP88	11OCT88	20OCT88	27	
213H033A61	9	9	0	29	ALUMINUM FRAMES, WINDOWS & DOORS	14SEP88	24SEP88	15OCT88	24OCT88	26	
213H034A61	9	9	0	30	ALUMINUM FRAMES, WINDOWS & DOORS	19SEP88	28SEP88	18OCT88	27OCT88	25	
219H011A61	9	9	0	31	ALUMINUM FRAMES, WINDOWS & DOORS	24SEP88	3OCT88	22OCT88	31OCT88	24	
219H012A61	9	9	0	32	ALUMINUM FRAMES, WINDOWS & DOORS	28SEP88	8OCT88	25OCT88	3NOV88	23	
217H017A61	9	9	0	33	ALUMINUM FRAMES, WINDOWS & DOORS	3OCT88	12OCT88	29OCT88	7NOV88	22	
217H016A61	9	9	0	34	ALUMINUM FRAMES, WINDOWS & DOORS	8OCT88	17OCT88	1NOV88	10NOV88	21	
221H003A61	9	9	0	35	ALUMINUM FRAMES, WINDOWS & DOORS	12OCT88	22OCT88	5NOV88	14NOV88	20	
221H002A61	9	9	0	36	ALUMINUM FRAMES, WINDOWS & DOORS	17OCT88	26OCT88	8NOV88	17NOV88	19	
221H001A61	9	9	0	37	ALUMINUM FRAMES, WINDOWS & DOORS	22OCT88	31OCT88	12NOV88	21NOV88	18	
220H009A61	9	9	0	38	ALUMINUM FRAMES, WINDOWS & DOORS	26OCT88	5NOV88	15NOV88	24NOV88	17	
220H008A61	9	9	0	39	ALUMINUM FRAMES, WINDOWS & DOORS	31OCT88	9NOV88	19NOV88	28NOV88	16	
220H006A61	9	9	0	40	ALUMINUM FRAMES, WINDOWS & DOORS	5NOV88	14NOV88	22NOV88	1DEC88	15	
220H005A61	9	9	0	41	ALUMINUM FRAMES, WINDOWS & DOORS	9NOV88	19NOV88	26NOV88	5DEC88	14	
220H004A61	9	9	0	42	ALUMINUM FRAMES, WINDOWS & DOORS	14NOV88	23NOV88	29NOV88	8DEC88	13	
320H176A61	9	9	0	43	ALUMINUM FRAMES, WINDOWS & DOORS	19NOV88	28NOV88	3DEC88	12DEC88	12	
320H177A61	9	9	0	44	ALUMINUM FRAMES, WINDOWS & DOORS	23NOV88	3DEC88	6DEC88	15DEC88	11	
320H178A61	9	9	0	45	ALUMINUM FRAMES, WINDOWS & DOORS	28NOV88	7DEC88	10DEC88	19DEC88	10	
215H027A61	9	9	0	46	ALUMINUM FRAMES, WINDOWS & DOORS	3DEC88	12DEC88	13DEC88	22DEC88	9	
215H026A61	9	9	0	47	ALUMINUM FRAMES, WINDOWS & DOORS	7DEC88	17DEC88	17DEC88	26DEC88	8	
215H025A61	9	9	0	48	ALUMINUM FRAMES, WINDOWS & DOORS	12DEC88	21DEC88	20DEC88	29DEC88	7	
215H024A61	9	9	0	49	ALUMINUM FRAMES, WINDOWS & DOORS	17DEC88	26DEC88	24DEC88	3JAN89	6	
215H023A61	9	9	0	50	ALUMINUM FRAMES, WINDOWS & DOORS	21DEC88	31DEC88	27DEC88	7JAN89	5	
215H022A61	9	9	0	51	ALUMINUM FRAMES, WINDOWS & DOORS	26DEC88	5JAN89	31DEC88	10JAN89	4	
211H043A62	4	4	0	01	ELECTRICAL BOARDS CONNECTION	15MAY88	18MAY88	16MAY88	19MAY88	1	
211H042A62	4	4	0	02	ELECTRICAL BOARDS CONNECTION	19MAY88	23MAY88	21MAY88	24MAY88	1	
211H174A62	4	4	0	03	ELECTRICAL BOARDS CONNECTION	24MAY88	28MAY88	25MAY88	29MAY88	1	
211H175A62	4	4	0	04	ELECTRICAL BOARDS CONNECTION	29MAY88	2JUN88	31MAY88	4JUN88	1	
211H044A62	4	4	0	05	ELECTRICAL BOARDS CONNECTION	4JUN88	7JUN88	5JUN88	8JUN88	1	
223H185A62	4	4	0	06	ELECTRICAL BOARDS CONNECTION	8JUN88	12JUN88	9JUN88	13JUN88	1	
223H186A62	4	4	0	07	ELECTRICAL BOARDS CONNECTION	13JUN88	16JUN88	14JUN88	18JUN88	1	
223H187A62	4	4	0	08	ELECTRICAL BOARDS CONNECTION	18JUN88	21JUN88	19JUN88	22JUN88	1	
214H030A62	4	4	0	09	ELECTRICAL BOARDS CONNECTION	22JUN88	26JUN88	23JUN88	27JUN88	1	
214H029A62	4	4	0	10	ELECTRICAL BOARDS CONNECTION	27JUN88	30JUN88	28JUN88	2JUL88	1	
214H028A62	4	4	0	11	ELECTRICAL BOARDS CONNECTION	2JUL88	5JUL88	3JUL88	6JUL88	1	
214H031A62	4	4	0	12	ELECTRICAL BOARDS CONNECTION	6JUL88	10JUL88	7JUL88	11JUL88	1	
216H020A62	4	4	0	13	ELECTRICAL BOARDS CONNECTION	11JUL88	14JUL88	12JUL88	16JUL88	1	
216H019A62	4	4	0	14	ELECTRICAL BOARDS CONNECTION	16JUL88	19JUL88	17JUL88	20JUL88	1	
216H018A62	4	4	0	15	ELECTRICAL BOARDS CONNECTION	20JUL88	24JUL88	21JUL88	25JUL88	1	
218H015A62	4	4	0	16	ELECTRICAL BOARDS CONNECTION	25JUL88	28JUL88	26JUL88	30JUL88	1	
218H014A62	4	4	0	17	ELECTRICAL BOARDS CONNECTION	30JUL88	2AUG88	31JUL88	3AUG88	1	
218H013A62	4	4	0	18	ELECTRICAL BOARDS CONNECTION	3AUG88	8AUG88	6AUG88	9AUG88	1	
222H188A62	4	4	0	19	ELECTRICAL BOARDS CONNECTION	9AUG88	13AUG88	10AUG88	14AUG88	1	
222H189A62	4	4	0	20	ELECTRICAL BOARDS CONNECTION	14AUG88	17AUG88	15AUG88	19AUG88	1	
222H190A62	4	4	0	21	ELECTRICAL BOARDS CONNECTION	18AUG88	22AUG88	20AUG88	23AUG88	1	
216H021A62	4	4	0	22	ELECTRICAL BOARDS CONNECTION	23AUG88	28AUG88	24AUG88	29AUG88	1	
219H010A62	4	4	0	23	ELECTRICAL BOARDS CONNECTION	29AUG88	1SEP88	30AUG88	3SEP88	1	
220H007A62	4	4	0	24	ELECTRICAL BOARDS CONNECTION	3SEP88	6SEP88	4SEP88	7SEP88	1	
213H035A62	4	4	0	25	ELECTRICAL BOARDS CONNECTION	7SEP88	11SEP88	8SEP88	12SEP88	1	
213H036A62	4	4	0	26	ELECTRICAL BOARDS CONNECTION	12SEP88	15SEP88	13SEP88	17SEP88	1	
213H037A62	4	4	0	27	ELECTRICAL BOARDS CONNECTION	17SEP88	20SEP88	18SEP88	21SEP88	1	
213H032A62	4	4	0	28	ELECTRICAL BOARDS CONNECTION	21SEP88	25SEP88	22SEP88	26SEP88	1	
213H033A62	4	4	0	29	ELECTRICAL BOARDS CONNECTION	26SEP88	29SEP88	27SEP88	1OCT88	1	
213H034A62	4	4	0	30	ELECTRICAL BOARDS CONNECTION	1OCT88	4OCT88	2OCT88	5OCT88	1	
219H011A62	4	4	0	31	ELECTRICAL BOARDS CONNECTION	5OCT88	9OCT88	6OCT88	10OCT88	1	
219H012A62	4	4	0	32	ELECTRICAL BOARDS CONNECTION	10OCT88	13OCT88	11OCT88	15OCT88	1	
217H017A62	4	4	0	33	ELECTRICAL BOARDS CONNECTION	15OCT88	18OCT88	16OCT88	19OCT88	1	
217H016A62	4	4	0	34	ELECTRICAL BOARDS CONNECTION	19OCT88	23OCT88	20OCT88	24OCT88	1	
221H003A62	4	4	0	35	ELECTRICAL BOARDS CONNECTION	24OCT88	27OCT88	25OCT88	29OCT88	1	
221H002A62	4	4	0	36	ELECTRICAL BOARDS CONNECTION	29OCT88	1NOV88	30OCT88	2NOV88	1	
221H001A62	4	4	0	37	ELECTRICAL BOARDS CONNECTION	2NOV88	6NOV88	3NOV88	7NOV88	1	
220H009A62	4	4	0	38	ELECTRICAL BOARDS CONNECTION	7NOV88	10NOV88	8NOV88	12NOV88	1	
220H008A62	4	4	0	39	ELECTRICAL BOARDS CONNECTION	12NOV88	15NOV88	13NOV88	16NOV88	1	
220H006A62	4	4	0	40	ELECTRICAL BOARDS CONNECTION	17NOV88	20NOV88	17NOV88	21NOV88	1	
220H005A62	4	4	0	41	ELECTRICAL BOARDS CONNECTION	21NOV88	24NOV88	22NOV88	26NOV88	1	
220H004A62	4	4	0	42	ELECTRICAL BOARDS CONNECTION	26NOV88	29NOV88	27NOV88	30NOV88	1	
320H176A62	4	4	0	43	ELECTRICAL BOARDS CONNECTION	30NOV88	4DEC88	1DEC88	5DEC88	1	
320H177A62	4	4	0	44	ELECTRICAL BOARDS CONNECTION	5DEC88	8DEC88	6DEC88	10DEC88	1	
320H178A62	4	4	0	45	ELECTRICAL BOARDS CONNECTION	10DEC88	13DEC88	11DEC88	14DEC88	1	
215H027A62	4	4	0	46	ELECTRICAL BOARDS CONNECTION	14DEC88	18DEC88	15DEC88	19DEC88	1	

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decal Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 28

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
215H026A62	4	4	0	47	ELECTRICAL BOARDS CONNECTION	19DEC88	22DEC88	20DEC88	24DEC88	1
215H025A62	4	4	0	48	ELECTRICAL BOARDS CONNECTION	24DEC88	27DEC88	25DEC88	28DEC88	1
215H024A62	4	4	0	49	ELECTRICAL BOARDS CONNECTION	28DEC88	2JAN89	29DEC88	3JAN89	1
215H023A62	4	4	0	50	ELECTRICAL BOARDS CONNECTION	3JAN89	7JAN89	4JAN89	8JAN89	1
215H022A62	4	4	0	51	ELECTRICAL BOARDS CONNECTION	8JAN89	11JAN89	9JAN89	12JAN89	1
211H043A63	6	6	0	01	PAINT, FIRST & SECOND COATS	15MAY88	21MAY88	10JUL88	16JUL88	47
211H042A63	6	6	0	02	PAINT, FIRST & SECOND COATS	18MAY88	24MAY88	13JUL88	19JUL88	47
321H174A63	6	6	0	03	PAINT, FIRST & SECOND COATS	23MAY88	29MAY88	17JUL88	23JUL88	46
321H175A63	6	6	0	04	PAINT, FIRST & SECOND COATS	26MAY88	2JUN88	20JUL88	26JUL88	46
211H044A63	6	6	0	05	PAINT, FIRST & SECOND COATS	1JUN88	7JUN88	24JUL88	30JUL88	45
323H185A63	6	6	0	06	PAINT, FIRST & SECOND COATS	5JUN88	11JUN88	27JUL88	2AUG88	45
323H186A63	6	6	0	07	PAINT, FIRST & SECOND COATS	9JUN88	15JUN88	31JUL88	7AUG88	44
323H187A63	6	6	0	08	PAINT, FIRST & SECOND COATS	13JUN88	19JUN88	3AUG88	10AUG88	44
214H030A63	6	6	0	09	PAINT, FIRST & SECOND COATS	18JUN88	23JUN88	8AUG88	14AUG88	43
214H029A63	6	6	0	10	PAINT, FIRST & SECOND COATS	21JUN88	27JUN88	11AUG88	17AUG88	43
214H028A63	6	6	0	11	PAINT, FIRST & SECOND COATS	26JUN88	2JUL88	15AUG88	21AUG88	42
214H031A63	6	6	0	12	PAINT, FIRST & SECOND COATS	29JUN88	5JUL88	18AUG88	24AUG88	42
216H020A63	6	6	0	13	PAINT, FIRST & SECOND COATS	4JUL88	10JUL88	22AUG88	29AUG88	41
216H019A63	6	6	0	14	PAINT, FIRST & SECOND COATS	7JUL88	13JUL88	27AUG88	1SEP88	41
216H018A63	6	6	0	15	PAINT, FIRST & SECOND COATS	12JUL88	18JUL88	30AUG88	5SEP88	40
218H015A63	6	6	0	16	PAINT, FIRST & SECOND COATS	16JUL88	21JUL88	3SEP88	8SEP88	40
218H014A63	6	6	0	17	PAINT, FIRST & SECOND COATS	20JUL88	26JUL88	6SEP88	12SEP88	39
218H013A63	6	6	0	18	PAINT, FIRST & SECOND COATS	24JUL88	30JUL88	10SEP88	15SEP88	39
322H188A63	6	6	0	19	PAINT, FIRST & SECOND COATS	28JUL88	3AUG88	13SEP88	19SEP88	38
322H189A63	6	6	0	20	PAINT, FIRST & SECOND COATS	1AUG88	8AUG88	17SEP88	22SEP88	38
322H190A63	6	6	0	21	PAINT, FIRST & SECOND COATS	7AUG88	13AUG88	20SEP88	26SEP88	37
216H021A63	6	6	0	22	PAINT, FIRST & SECOND COATS	11AUG88	17AUG88	24SEP88	29SEP88	36
219H010A63	6	6	0	23	PAINT, FIRST & SECOND COATS	16AUG88	22AUG88	27SEP88	3OCT88	35
220H007A63	6	6	0	24	PAINT, FIRST & SECOND COATS	21AUG88	28AUG88	1OCT88	6OCT88	34
213H035A63	6	6	0	25	PAINT, FIRST & SECOND COATS	27AUG88	1SEP88	4OCT88	10OCT88	33
213H036A63	6	6	0	26	PAINT, FIRST & SECOND COATS	31AUG88	6SEP88	8OCT88	12OCT88	32
213H037A63	6	6	0	27	PAINT, FIRST & SECOND COATS	5SEP88	11SEP88	11OCT88	17OCT88	31
213H032A63	6	6	0	28	PAINT, FIRST & SECOND COATS	10SEP88	15SEP88	15OCT88	20OCT88	30
213H033A63	6	6	0	29	PAINT, FIRST & SECOND COATS	14SEP88	20SEP88	18OCT88	24OCT88	29
213H034A63	6	6	0	30	PAINT, FIRST & SECOND COATS	19SEP88	25SEP88	22OCT88	27OCT88	28
219H011A63	6	6	0	31	PAINT, FIRST & SECOND COATS	24SEP88	29SEP88	25OCT88	31OCT88	27
219H012A63	6	6	0	32	PAINT, FIRST & SECOND COATS	28SEP88	4OCT88	29OCT88	3NOV88	26
217H017A63	6	6	0	33	PAINT, FIRST & SECOND COATS	3OCT88	9OCT88	1NOV88	7NOV88	25
217H016A63	6	6	0	34	PAINT, FIRST & SECOND COATS	8OCT88	13OCT88	5NOV88	10NOV88	24
221H003A63	6	6	0	35	PAINT, FIRST & SECOND COATS	12OCT88	18OCT88	8NOV88	14NOV88	23
221H002A63	6	6	0	36	PAINT, FIRST & SECOND COATS	17OCT88	23OCT88	12NOV88	17NOV88	22
221H001A63	6	6	0	37	PAINT, FIRST & SECOND COATS	22OCT88	27OCT88	15NOV88	21NOV88	21
220H009A63	6	6	0	38	PAINT, FIRST & SECOND COATS	26OCT88	1NOV88	19NOV88	24NOV88	20
220H008A63	6	6	0	39	PAINT, FIRST & SECOND COATS	31OCT88	6NOV88	22NOV88	28NOV88	19
220H006A63	6	6	0	40	PAINT, FIRST & SECOND COATS	5NOV88	10NOV88	26NOV88	1DEC88	18
220H005A63	6	6	0	41	PAINT, FIRST & SECOND COATS	9NOV88	15NOV88	29NOV88	5DEC88	17
220H004A63	6	6	0	42	PAINT, FIRST & SECOND COATS	14NOV88	20NOV88	3DEC88	8DEC88	16
320H176A63	6	6	0	43	PAINT, FIRST & SECOND COATS	19NOV88	24NOV88	6DEC88	12DEC88	15
320H177A63	6	6	0	44	PAINT, FIRST & SECOND COATS	23NOV88	29NOV88	10DEC88	15DEC88	14
320H178A63	6	6	0	45	PAINT, FIRST & SECOND COATS	28NOV88	4DEC88	13DEC88	19DEC88	13
215H027A63	6	6	0	46	PAINT, FIRST & SECOND COATS	3DEC88	8DEC88	17DEC88	22DEC88	12
215H026A63	6	6	0	47	PAINT, FIRST & SECOND COATS	7DEC88	13DEC88	20DEC88	26DEC88	11
215H025A63	6	6	0	48	PAINT, FIRST & SECOND COATS	12DEC88	18DEC88	24DEC88	29DEC88	10
215H024A63	6	6	0	49	PAINT, FIRST & SECOND COATS	17DEC88	22DEC88	27DEC88	3JAN89	9
215H023A63	6	6	0	50	PAINT, FIRST & SECOND COATS	21DEC88	27DEC88	31DEC88	7JAN89	8
215H022A63	6	6	0	51	PAINT, FIRST & SECOND COATS	26DEC88	2JAN89	4JAN89	10JAN89	7
211H043A64	10	10	0	01	YARD EARTH WORKS & PLAIN CONCRETE	23MAY88	4JUN88	6JUN88	16JUN88	11
211H042A64	10	10	0	02	YARD EARTH WORKS & PLAIN CONCRETE	23MAY88	4JUN88	9JUN88	20JUN88	14
321H174A64	10	10	0	03	YARD EARTH WORKS & PLAIN CONCRETE	31MAY88	11JUN88	13JUN88	23JUN88	11
321H175A64	10	10	0	04	YARD EARTH WORKS & PLAIN CONCRETE	4JUN88	14JUN88	16JUN88	27JUN88	11
211H044A64	10	10	0	05	YARD EARTH WORKS & PLAIN CONCRETE	7JUN88	18JUN88	20JUN88	30JUN88	11
323H185A64	10	10	0	06	YARD EARTH WORKS & PLAIN CONCRETE	11JUN88	21JUN88	23JUN88	4JUL88	11
323H186A64	10	10	0	07	YARD EARTH WORKS & PLAIN CONCRETE	14JUN88	25JUN88	27JUN88	7JUL88	11
323H187A64	10	10	0	08	YARD EARTH WORKS & PLAIN CONCRETE	18JUN88	28JUN88	30JUN88	11JUL88	11
214H030A64	10	10	0	09	YARD EARTH WORKS & PLAIN CONCRETE	21JUN88	2JUL88	4JUL88	14JUL88	11
214H029A64	10	10	0	10	YARD EARTH WORKS & PLAIN CONCRETE	25JUN88	5JUL88	7JUL88	18JUL88	11
214H028A64	10	10	0	11	YARD EARTH WORKS & PLAIN CONCRETE	28JUN88	9JUL88	11JUL88	21JUL88	11
214H031A64	10	10	0	12	YARD EARTH WORKS & PLAIN CONCRETE	2JUL88	12JUL88	14JUL88	25JUL88	11
216H020A64	10	10	0	13	YARD EARTH WORKS & PLAIN CONCRETE	5JUL88	16JUL88	18JUL88	28JUL88	11
216H019A64	10	10	0	14	YARD EARTH WORKS & PLAIN CONCRETE	9JUL88	19JUL88	21JUL88	1AUG88	11
216H018A64	10	10	0	15	YARD EARTH WORKS & PLAIN CONCRETE	12JUL88	23JUL88	25JUL88	6AUG88	11
218H015A64	10	10	0	16	YARD EARTH WORKS & PLAIN CONCRETE	16JUL88	26JUL88	28JUL88	9AUG88	11
218H014A64	10	10	0	17	YARD EARTH WORKS & PLAIN CONCRETE	19JUL88	30JUL88	1AUG88	13AUG88	11
218H013A64	10	10	0	18	YARD EARTH WORKS & PLAIN CONCRETE	23JUL88	2AUG88	6AUG88	16AUG88	11
322H188A64	10	10	0	19	YARD EARTH WORKS & PLAIN CONCRETE	26JUL88	7AUG88	9AUG88	20AUG88	11
322H189A64	10	10	0	20	YARD EARTH WORKS & PLAIN CONCRETE	30JUL88	10AUG88	13AUG88	23AUG88	11
322H190A64	10	10	0	21	YARD EARTH WORKS & PLAIN CONCRETE	2AUG88	14AUG88	16AUG88	28AUG88	11
216H021A64	10	10	0	22	YARD EARTH WORKS & PLAIN CONCRETE	7AUG88	17AUG88	20AUG88	31AUG88	11
219H010A64	10	10	0	23	YARD EARTH WORKS & PLAIN CONCRETE	10AUG88	21AUG88	23AUG88	4SEP88	11
220H007A64	10	10	0	24	YARD EARTH WORKS & PLAIN CONCRETE	14AUG88	24AUG88	28AUG88	7SEP88	11
213H035A64	10	10	0	25	YARD EARTH WORKS & PLAIN CONCRETE	17AUG88	29AUG88	31AUG88	11SEP88	11
213H036A64	10	10	0	26	YARD EARTH WORKS & PLAIN CONCRETE	21AUG88	1SEP88	4SEP88	14SEP88	11
213H037A64	10	10	0	27	YARD EARTH WORKS & PLAIN CONCRETE	24AUG88	5SEP88	7SEP88	18SEP88	11
213H032A64	10	10	0	28	YARD EARTH WORKS & PLAIN CONCRETE	29AUG88	8SEP88	11SEP88	21SEP88	11
213H033A64	10	10	0	29	YARD EARTH WORKS & PLAIN CONCRETE	1SEP88	12SEP88	14SEP88	25SEP88	11
213H034A64	10	10	0	30	YARD EARTH WORKS & PLAIN CONCRETE	5SEP88	15SEP88	18SEP88	28SEP88	11
219H011A64	10	10	0	31	YARD EARTH WORKS & PLAIN CONCRETE	10SEP88	20SEP88	21SEP88	2OCT88	10
219H012A64	10	10	0	32	YARD EARTH WORKS & PLAIN CONCRETE	12SEP88	22SEP88	25SEP88	5OCT88	11
217H017A64	10	10	0	33	YARD EARTH WORKS & PLAIN CONCRETE	18SEP88	28SEP88	28SEP88	9OCT88	9
217H016A64	10	10	0	34	YARD EARTH WORKS & PLAIN CONCRETE	19SEP88	29SEP88	2OCT88	12OCT88	11
221H003A64	10	10	0	35	YARD EARTH WORKS & PLAIN CONCRETE	26SEP88	6OCT88	5OCT88	16OCT88	11
221H002A64	10	10	0	36	YARD EARTH WORKS & PLAIN CONCRETE	26SEP88	6OCT88	9OCT88	19OCT88	8
221H001A64	10	10	0	37	YARD EARTH WORKS & PLAIN CONCRETE	4OCT88	15OCT88	12OCT88	23OCT88	7
220H009A64	10	10	0	38	YARD EARTH WORKS & PLAIN CONCRETE	4OCT88	15OCT88	16OCT88	26OCT88	10
220H008A64	10	10	0	39	YARD EARTH WORKS & PLAIN CONCRETE	12OCT88	23OCT88	19OCT88	30OCT88	6
220H006A64	10	10	0	40	YARD EARTH WORKS & PLAIN CONCRETE	12OCT88	23OCT88	23OCT88	2NOV88	9

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 30MAR99*

18:31

Rev'd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB98 PAGE NO. 29

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
220H005A64	10	10	0	41	YARD EARTH WORKS & PLAIN CONCRETE	26OCT98	31OCT98	26OCT98	6NOV98	5
220H004A64	10	10	0	42	YARD EARTH WORKS & PLAIN CONCRETE	26OCT98	31OCT98	30OCT98	9NOV98	8
320H176A64	10	10	0	43	YARD EARTH WORKS & PLAIN CONCRETE	29OCT98	8NOV98	2NOV98	13NOV98	4
320H177A64	10	10	0	44	YARD EARTH WORKS & PLAIN CONCRETE	29OCT98	8NOV98	6NOV98	16NOV98	7
320H178A64	10	10	0	45	YARD EARTH WORKS & PLAIN CONCRETE	6NOV98	16NOV98	9NOV98	20NOV98	3
215H027A64	10	10	0	46	YARD EARTH WORKS & PLAIN CONCRETE	7NOV98	17NOV98	13NOV98	23NOV98	5
215H026A64	10	10	0	47	YARD EARTH WORKS & PLAIN CONCRETE	14NOV98	24NOV98	16NOV98	27NOV98	2
215H025A64	10	10	0	48	YARD EARTH WORKS & PLAIN CONCRETE	14NOV98	24NOV98	20NOV98	30NOV98	5
215H024A64	10	10	0	49	YARD EARTH WORKS & PLAIN CONCRETE	22NOV98	3DEC98	23NOV98	4DEC98	1
215H023A64	10	10	0	50	YARD EARTH WORKS & PLAIN CONCRETE	23NOV98	4DEC98	27NOV98	7DEC98	3
215H022A64	10	10	0	51	YARD EARTH WORKS & PLAIN CONCRETE	30NOV98	11DEC98	30NOV98	11DEC98	0
211H043A65	2	2	0	01	INTERNAL MAIN CABLES	23MAY98	24MAY98	29SEP98	1OCT98	108
211H042A65	2	2	0	02	INTERNAL MAIN CABLES	25MAY98	26MAY98	2OCT98	3OCT98	108
321H174A65	2	2	0	03	INTERNAL MAIN CABLES	31MAY98	1JUN98	4OCT98	5OCT98	106
321H175A65	2	2	0	04	INTERNAL MAIN CABLES	4JUN98	5JUN98	6OCT98	8OCT98	105
211H044A65	2	2	0	05	INTERNAL MAIN CABLES	7JUN98	8JUN98	9OCT98	10OCT98	104
223H185A65	2	2	0	06	INTERNAL MAIN CABLES	11JUN98	12JUN98	11OCT98	12OCT98	103
223H186A65	2	2	0	07	INTERNAL MAIN CABLES	14JUN98	15JUN98	13OCT98	15OCT98	102
223H187A65	2	2	0	08	INTERNAL MAIN CABLES	18JUN98	19JUN98	16OCT98	17OCT98	101
214H030A65	2	2	0	09	INTERNAL MAIN CABLES	21JUN98	22JUN98	18OCT98	19OCT98	100
214H029A65	2	2	0	10	INTERNAL MAIN CABLES	25JUN98	26JUN98	20OCT98	22OCT98	99
214H028A65	2	2	0	11	INTERNAL MAIN CABLES	28JUN98	29JUN98	23OCT98	24OCT98	98
214H031A65	2	2	0	12	INTERNAL MAIN CABLES	2JUL98	3JUL98	25OCT98	26OCT98	97
216H020A65	2	2	0	13	INTERNAL MAIN CABLES	5JUL98	6JUL98	27OCT98	29OCT98	96
216H019A65	2	2	0	14	INTERNAL MAIN CABLES	9JUL98	10JUL98	30OCT98	31OCT98	95
216H018A65	2	2	0	15	INTERNAL MAIN CABLES	12JUL98	13JUL98	1NOV98	2NOV98	94
218H015A65	2	2	0	16	INTERNAL MAIN CABLES	16JUL98	17JUL98	3NOV98	5NOV98	93
218H014A65	2	2	0	17	INTERNAL MAIN CABLES	19JUL98	20JUL98	6NOV98	7NOV98	92
219H013A65	2	2	0	18	INTERNAL MAIN CABLES	23JUL98	24JUL98	8NOV98	9NOV98	91
322H188A65	2	2	0	19	INTERNAL MAIN CABLES	26JUL98	27JUL98	10NOV98	12NOV98	90
322H189A65	2	2	0	20	INTERNAL MAIN CABLES	30JUL98	31JUL98	13NOV98	14NOV98	89
322H190A65	2	2	0	21	INTERNAL MAIN CABLES	2AUG98	3AUG98	15NOV98	16NOV98	88
216H021A65	2	2	0	22	INTERNAL MAIN CABLES	7AUG98	8AUG98	17NOV98	19NOV98	87
219H010A65	2	2	0	23	INTERNAL MAIN CABLES	10AUG98	11AUG98	20NOV98	21NOV98	86
220H007A65	2	2	0	24	INTERNAL MAIN CABLES	14AUG98	15AUG98	22NOV98	23NOV98	85
213H035A65	2	2	0	25	INTERNAL MAIN CABLES	17AUG98	18AUG98	24NOV98	26NOV98	84
213H036A65	2	2	0	26	INTERNAL MAIN CABLES	21AUG98	22AUG98	27NOV98	28NOV98	83
213H037A65	2	2	0	27	INTERNAL MAIN CABLES	24AUG98	27AUG98	29NOV98	30NOV98	82
213H032A65	2	2	0	28	INTERNAL MAIN CABLES	29AUG98	30AUG98	1DEC98	3DEC98	81
213H033A65	2	2	0	29	INTERNAL MAIN CABLES	1SEP98	3SEP98	4DEC98	5DEC98	80
213H034A65	2	2	0	30	INTERNAL MAIN CABLES	13SEP98	4SEP98	6DEC98	7DEC98	79
219H011A65	2	2	0	31	INTERNAL MAIN CABLES	10SEP98	11SEP98	8DEC98	10DEC98	77
219H012A65	2	2	0	32	INTERNAL MAIN CABLES	12SEP98	13SEP98	11DEC98	12DEC98	77
217H017A65	2	2	0	33	INTERNAL MAIN CABLES	18SEP98	19SEP98	13DEC98	14DEC98	74
217H016A65	2	2	0	34	INTERNAL MAIN CABLES	20SEP98	21SEP98	15DEC98	17DEC98	74
221H003A65	2	2	0	35	INTERNAL MAIN CABLES	26SEP98	27SEP98	18DEC98	19DEC98	71
221H002A65	2	2	0	36	INTERNAL MAIN CABLES	28SEP98	29SEP98	20DEC98	21DEC98	71
221H001A65	2	2	0	37	INTERNAL MAIN CABLES	4OCT98	5OCT98	22DEC98	24DEC98	68
220H009A65	2	2	0	38	INTERNAL MAIN CABLES	6OCT98	8OCT98	25DEC98	26DEC98	68
220H008A65	2	2	0	39	INTERNAL MAIN CABLES	12OCT98	13OCT98	27DEC98	28DEC98	65
220H006A65	2	2	0	40	INTERNAL MAIN CABLES	15OCT98	16OCT98	29DEC98	31DEC98	65
220H005A65	2	2	0	41	INTERNAL MAIN CABLES	20OCT98	22OCT98	2JAN99	3JAN99	62
220H004A65	2	2	0	42	INTERNAL MAIN CABLES	23OCT98	24OCT98	4JAN99	5JAN99	62
320H176A65	2	2	0	43	INTERNAL MAIN CABLES	29OCT98	30OCT98	7JAN99	8JAN99	59
320H177A65	2	2	0	44	INTERNAL MAIN CABLES	31OCT98	1NOV98	9JAN99	10JAN99	59
320H178A65	2	2	0	45	INTERNAL MAIN CABLES	6NOV98	7NOV98	11JAN99	12JAN99	56
215H027A65	2	2	0	46	INTERNAL MAIN CABLES	9NOV98	9NOV98	14JAN99	15JAN99	56
215H026A65	2	2	0	47	INTERNAL MAIN CABLES	14NOV98	15NOV98	16JAN99	17JAN99	53
215H025A65	2	2	0	48	INTERNAL MAIN CABLES	16NOV98	17NOV98	18JAN99	19JAN99	53
215H024A65	2	2	0	49	INTERNAL MAIN CABLES	22NOV98	23NOV98	21JAN99	22JAN99	50
215H023A65	2	2	0	50	INTERNAL MAIN CABLES	26NOV98	26NOV98	23JAN99	24JAN99	50
215H022A65	2	2	0	51	INTERNAL MAIN CABLES	30NOV98	1DEC98	25JAN99	26JAN99	47
211H043A66	3	3	0	01	ELECTRICAL HOUSE CONNECTION	23MAY98	25MAY98	8AUG98	8AUG98	62
211H042A66	3	3	0	02	ELECTRICAL HOUSE CONNECTION	26MAY98	29MAY98	9AUG98	11AUG98	62
321H174A66	3	3	0	03	ELECTRICAL HOUSE CONNECTION	31MAY98	2JUN98	13AUG98	15AUG98	62
321H175A66	3	3	0	04	ELECTRICAL HOUSE CONNECTION	4JUN98	6JUN98	16AUG98	18AUG98	62
211H044A66	3	3	0	05	ELECTRICAL HOUSE CONNECTION	7JUN98	9JUN98	20AUG98	22AUG98	62
223H185A66	3	3	0	06	ELECTRICAL HOUSE CONNECTION	11JUN98	13JUN98	23AUG98	27AUG98	62
223H186A66	3	3	0	07	ELECTRICAL HOUSE CONNECTION	14JUN98	16JUN98	28AUG98	30AUG98	62
223H187A66	3	3	0	08	ELECTRICAL HOUSE CONNECTION	18JUN98	20JUN98	31AUG98	3SEP98	62
214H030A66	3	3	0	09	ELECTRICAL HOUSE CONNECTION	21JUN98	23JUN98	4SEP98	6SEP98	62
214H029A66	3	3	0	10	ELECTRICAL HOUSE CONNECTION	25JUN98	27JUN98	7SEP98	10SEP98	62
214H028A66	3	3	0	11	ELECTRICAL HOUSE CONNECTION	28JUN98	30JUN98	11SEP98	13SEP98	62
214H031A66	3	3	0	12	ELECTRICAL HOUSE CONNECTION	2JUL98	4JUL98	14SEP98	17SEP98	62
216H020A66	3	3	0	13	ELECTRICAL HOUSE CONNECTION	5JUL98	7JUL98	18SEP98	20SEP98	62
216H019A66	3	3	0	14	ELECTRICAL HOUSE CONNECTION	9JUL98	11JUL98	21SEP98	24SEP98	62
216H018A66	3	3	0	15	ELECTRICAL HOUSE CONNECTION	12JUL98	14JUL98	25SEP98	27SEP98	62
218H015A66	3	3	0	16	ELECTRICAL HOUSE CONNECTION	16JUL98	18JUL98	28SEP98	1OCT98	62
218H014A66	3	3	0	17	ELECTRICAL HOUSE CONNECTION	19JUL98	21JUL98	2OCT98	4OCT98	62
218H013A66	3	3	0	18	ELECTRICAL HOUSE CONNECTION	23JUL98	25JUL98	5OCT98	8OCT98	62
322H188A66	3	3	0	19	ELECTRICAL HOUSE CONNECTION	26JUL98	28JUL98	9OCT98	11OCT98	62
322H189A66	3	3	0	20	ELECTRICAL HOUSE CONNECTION	30JUL98	1AUG98	12OCT98	15OCT98	62
322H190A66	3	3	0	21	ELECTRICAL HOUSE CONNECTION	2AUG98	6AUG98	16OCT98	18OCT98	62
216H021A66	3	3	0	22	ELECTRICAL HOUSE CONNECTION	7AUG98	9AUG98	19OCT98	22OCT98	62
219H010A66	3	3	0	23	ELECTRICAL HOUSE CONNECTION	10AUG98	13AUG98	23OCT98	25OCT98	62
220H007A66	3	3	0	24	ELECTRICAL HOUSE CONNECTION	14AUG98	16AUG98	26OCT98	29OCT98	62
213H035A66	3	3	0	25	ELECTRICAL HOUSE CONNECTION	17AUG98	20AUG98	30OCT98	1NOV98	62
213H036A66	3	3	0	26	ELECTRICAL HOUSE CONNECTION	21AUG98	23AUG98	2NOV98	5NOV98	62
213H037A66	3	3	0	27	ELECTRICAL HOUSE CONNECTION	24AUG98	28AUG98	6NOV98	8NOV98	62
213H032A66	3	3	0	28	ELECTRICAL HOUSE CONNECTION	29AUG98	31AUG98	9NOV98	12NOV98	62
213H033A66	3	3	0	29	ELECTRICAL HOUSE CONNECTION	1SEP98	4SEP98	13NOV98	15NOV98	62
213H034A66	3	3	0	30	ELECTRICAL HOUSE CONNECTION	5SEP98	7SEP98	16NOV98	19NOV98	62
219H011A66	3	3	0	31	ELECTRICAL HOUSE CONNECTION	10SEP98	12SEP98	20NOV98	22NOV98	61
219H012A66	3	3	0	32	ELECTRICAL HOUSE CONNECTION	13SEP98	15SEP98	23NOV98	26NOV98	61
217H017A66	3	3	0	33	ELECTRICAL HOUSE CONNECTION	18SEP98	20SEP98	27NOV98	29NOV98	60
217H016A66	3	3	0	34	ELECTRICAL HOUSE CONNECTION	21SEP98	24SEP98	30NOV98	3DEC98	60

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18.31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 30

ACTIVITY ID	ORIG DUR	REM DUR	#	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
211H003A66	3	3	0	35	ELECTRICAL HOUSE CONNECTION	26SEP88	28SEP88	4DEC88	6DEC88	59
211H002A66	3	3	0	36	ELECTRICAL HOUSE CONNECTION	29SEP88	20CT88	7DEC88	10DEC88	59
211H001A66	3	3	0	37	ELECTRICAL HOUSE CONNECTION	4OCT88	30CT88	11DEC88	13DEC88	58
220H009A66	3	3	0	38	ELECTRICAL HOUSE CONNECTION	8OCT88	10OCT88	14DEC88	17DEC88	58
220H008A66	3	3	0	39	ELECTRICAL HOUSE CONNECTION	12OCT88	15OCT88	18DEC88	20DEC88	57
220H006A66	3	3	0	40	ELECTRICAL HOUSE CONNECTION	16OCT88	18OCT88	21DEC88	24DEC88	57
220H005A66	3	3	0	41	ELECTRICAL HOUSE CONNECTION	20OCT88	23OCT88	25DEC88	27DEC88	56
220H004A66	3	3	0	42	ELECTRICAL HOUSE CONNECTION	24OCT88	26OCT88	28DEC88	31DEC88	56
220H176A66	3	3	0	43	ELECTRICAL HOUSE CONNECTION	29OCT88	31OCT88	2JAN89	4JAN89	55
220H177A66	3	3	0	44	ELECTRICAL HOUSE CONNECTION	1NOV88	3NOV88	5JAN89	8JAN89	55
220H178A66	3	3	0	45	ELECTRICAL HOUSE CONNECTION	6NOV88	8NOV88	9JAN89	11JAN89	54
215H027A66	3	3	0	46	ELECTRICAL HOUSE CONNECTION	9NOV88	12NOV88	12JAN89	15JAN89	54
215H026A66	3	3	0	47	ELECTRICAL HOUSE CONNECTION	14NOV88	16NOV88	16JAN89	18JAN89	53
215H025A66	3	3	0	48	ELECTRICAL HOUSE CONNECTION	17NOV88	20NOV88	19JAN89	22JAN89	53
215H024A66	3	3	0	49	ELECTRICAL HOUSE CONNECTION	22NOV88	24NOV88	23JAN89	25JAN89	52
215H023A66	3	3	0	50	ELECTRICAL HOUSE CONNECTION	26NOV88	28NOV88	26JAN89	29JAN89	52
215H022A66	3	3	0	51	ELECTRICAL HOUSE CONNECTION	30NOV88	3DEC88	30JAN89	1FEB89	51
211H043A67	3	3	0	01	IRONMONGERY WORKS FOR WOODEN DOORS	25MAY88	28MAY88	20JUL88	23JUL88	47
211H042A67	3	3	0	02	IRONMONGERY WORKS FOR WOODEN DOORS	29MAY88	1JUN88	24JUL88	26JUL88	47
321H174A67	3	3	0	03	IRONMONGERY WORKS FOR WOODEN DOORS	4JUN88	6JUN88	27JUL88	30JUL88	46
321H175A67	3	3	0	04	IRONMONGERY WORKS FOR WOODEN DOORS	7JUN88	9JUN88	31JUL88	2AUG88	46
321H044A67	3	3	0	05	IRONMONGERY WORKS FOR WOODEN DOORS	12JUN88	14JUN88	3AUG88	7AUG88	45
321H185A67	3	3	0	06	IRONMONGERY WORKS FOR WOODEN DOORS	15JUN88	18JUN88	8AUG88	10AUG88	45
322H186A67	3	3	0	07	IRONMONGERY WORKS FOR WOODEN DOORS	20JUN88	22JUN88	11AUG88	14AUG88	44
322H187A67	3	3	0	08	IRONMONGERY WORKS FOR WOODEN DOORS	23JUN88	26JUN88	15AUG88	17AUG88	44
214H030A67	3	3	0	09	IRONMONGERY WORKS FOR WOODEN DOORS	28JUN88	30JUN88	18AUG88	21AUG88	43
214H029A67	3	3	0	10	IRONMONGERY WORKS FOR WOODEN DOORS	2JUL88	4JUL88	22AUG88	24AUG88	43
214H028A67	3	3	0	11	IRONMONGERY WORKS FOR WOODEN DOORS	6JUL88	9JUL88	27AUG88	29AUG88	42
214H031A67	3	3	0	12	IRONMONGERY WORKS FOR WOODEN DOORS	10JUL88	12JUL88	30AUG88	1SEP88	42
216H020A67	3	3	0	13	IRONMONGERY WORKS FOR WOODEN DOORS	14JUL88	17JUL88	3SEP88	5SEP88	41
216H019A67	3	3	0	14	IRONMONGERY WORKS FOR WOODEN DOORS	18JUL88	20JUL88	6SEP88	8SEP88	41
216H018A67	3	3	0	15	IRONMONGERY WORKS FOR WOODEN DOORS	23JUL88	25JUL88	10SEP88	12SEP88	40
218H015A67	3	3	0	16	IRONMONGERY WORKS FOR WOODEN DOORS	26JUL88	28JUL88	13SEP88	15SEP88	40
218H014A67	3	3	0	17	IRONMONGERY WORKS FOR WOODEN DOORS	31JUL88	2AUG88	17SEP88	19SEP88	39
218H013A67	3	3	0	18	IRONMONGERY WORKS FOR WOODEN DOORS	3AUG88	7AUG88	20SEP88	22SEP88	39
322H189A67	3	3	0	19	IRONMONGERY WORKS FOR WOODEN DOORS	9AUG88	11AUG88	24SEP88	26SEP88	38
322H189A67	3	3	0	20	IRONMONGERY WORKS FOR WOODEN DOORS	13AUG88	15AUG88	27SEP88	29SEP88	38
322H190A67	3	3	0	21	IRONMONGERY WORKS FOR WOODEN DOORS	17AUG88	20AUG88	1OCT88	3OCT88	37
216H021A67	3	3	0	22	IRONMONGERY WORKS FOR WOODEN DOORS	22AUG88	24AUG88	4OCT88	6OCT88	36
219H010A67	3	3	0	23	IRONMONGERY WORKS FOR WOODEN DOORS	28AUG88	30AUG88	8OCT88	10OCT88	35
220H007A67	3	3	0	24	IRONMONGERY WORKS FOR WOODEN DOORS	1SEP88	4SEP88	11OCT88	13OCT88	34
213H035A67	3	3	0	25	IRONMONGERY WORKS FOR WOODEN DOORS	6SEP88	8SEP88	15OCT88	17OCT88	33
213H036A67	3	3	0	26	IRONMONGERY WORKS FOR WOODEN DOORS	11SEP88	13SEP88	18OCT88	20OCT88	32
213H037A67	3	3	0	27	IRONMONGERY WORKS FOR WOODEN DOORS	15SEP88	18SEP88	22OCT88	24OCT88	31
213H032A67	3	3	0	28	IRONMONGERY WORKS FOR WOODEN DOORS	20SEP88	22SEP88	25OCT88	27OCT88	30
213H033A67	3	3	0	29	IRONMONGERY WORKS FOR WOODEN DOORS	25SEP88	27SEP88	29OCT88	31OCT88	29
213H034A67	3	3	0	30	IRONMONGERY WORKS FOR WOODEN DOORS	29SEP88	2OCT88	1NOV88	3NOV88	28
219H011A67	3	3	0	31	IRONMONGERY WORKS FOR WOODEN DOORS	4OCT88	6OCT88	5NOV88	7NOV88	27
219H012A67	3	3	0	32	IRONMONGERY WORKS FOR WOODEN DOORS	9OCT88	11OCT88	8NOV88	10NOV88	26
217H017A67	3	3	0	33	IRONMONGERY WORKS FOR WOODEN DOORS	13OCT88	16OCT88	12NOV88	14NOV88	25
217H016A67	3	3	0	34	IRONMONGERY WORKS FOR WOODEN DOORS	18OCT88	20OCT88	15NOV88	17NOV88	24
221H003A67	3	3	0	35	IRONMONGERY WORKS FOR WOODEN DOORS	23OCT88	25OCT88	19NOV88	21NOV88	23
221H002A67	3	3	0	36	IRONMONGERY WORKS FOR WOODEN DOORS	27OCT88	30OCT88	22NOV88	24NOV88	22
221H001A67	3	3	0	37	IRONMONGERY WORKS FOR WOODEN DOORS	1NOV88	3NOV88	26NOV88	28NOV88	21
220H009A67	3	3	0	38	IRONMONGERY WORKS FOR WOODEN DOORS	6NOV88	8NOV88	29NOV88	1DEC88	20
220H008A67	3	3	0	39	IRONMONGERY WORKS FOR WOODEN DOORS	10NOV88	13NOV88	3DEC88	5DEC88	19
220H006A67	3	3	0	40	IRONMONGERY WORKS FOR WOODEN DOORS	15NOV88	17NOV88	6DEC88	8DEC88	18
220H005A67	3	3	0	41	IRONMONGERY WORKS FOR WOODEN DOORS	20NOV88	22NOV88	10DEC88	12DEC88	17
220H004A67	3	3	0	42	IRONMONGERY WORKS FOR WOODEN DOORS	24NOV88	27NOV88	13DEC88	15DEC88	16
320H176A67	3	3	0	43	IRONMONGERY WORKS FOR WOODEN DOORS	29NOV88	1DEC88	17DEC88	19DEC88	15
320H177A67	3	3	0	44	IRONMONGERY WORKS FOR WOODEN DOORS	4DEC88	6DEC88	20DEC88	22DEC88	14
320H178A67	3	3	0	45	IRONMONGERY WORKS FOR WOODEN DOORS	8DEC88	11DEC88	24DEC88	26DEC88	13
215H027A67	3	3	0	46	IRONMONGERY WORKS FOR WOODEN DOORS	13DEC88	15DEC88	27DEC88	29DEC88	12
215H026A67	3	3	0	47	IRONMONGERY WORKS FOR WOODEN DOORS	18DEC88	20DEC88	31DEC88	3JAN89	11
215H025A67	3	3	0	48	IRONMONGERY WORKS FOR WOODEN DOORS	22DEC88	25DEC88	4JAN89	7JAN89	10
215H024A67	3	3	0	49	IRONMONGERY WORKS FOR WOODEN DOORS	27DEC88	29DEC88	8JAN89	10JAN89	9
215H023A67	3	3	0	50	IRONMONGERY WORKS FOR WOODEN DOORS	2JAN89	4JAN89	11JAN89	14JAN89	8
215H022A67	3	3	0	51	IRONMONGERY WORKS FOR WOODEN DOORS	7JAN89	9JAN89	15JAN89	17JAN89	7
211H043A68	4	4	0	01	INTERNAL ELECTRICAL FITTINGS	25MAY88	29MAY88	19JUL88	23JUL88	46
211H042A68	4	4	0	02	INTERNAL ELECTRICAL FITTINGS	29MAY88	2JUN88	23JUL88	26JUL88	46
321H174A68	4	4	0	03	INTERNAL ELECTRICAL FITTINGS	4JUN88	7JUN88	26JUL88	30JUL88	45
211H044A68	4	4	0	04	INTERNAL ELECTRICAL FITTINGS	7JUN88	11JUN88	30JUL88	2AUG88	45
322H185A68	4	4	0	05	INTERNAL ELECTRICAL FITTINGS	12JUN88	15JUN88	2AUG88	7AUG88	44
322H186A68	4	4	0	06	INTERNAL ELECTRICAL FITTINGS	15JUN88	19JUN88	7AUG88	10AUG88	44
322H187A68	4	4	0	07	INTERNAL ELECTRICAL FITTINGS	20JUN88	23JUN88	10AUG88	14AUG88	43
214H030A68	4	4	0	08	INTERNAL ELECTRICAL FITTINGS	23JUN88	27JUN88	14AUG88	17AUG88	43
214H029A68	4	4	0	09	INTERNAL ELECTRICAL FITTINGS	28JUN88	2JUL88	17AUG88	21AUG88	42
214H028A68	4	4	0	10	INTERNAL ELECTRICAL FITTINGS	2JUL88	5JUL88	21AUG88	24AUG88	42
214H031A68	4	4	0	11	INTERNAL ELECTRICAL FITTINGS	6JUL88	10JUL88	24AUG88	29AUG88	41
216H020A68	4	4	0	12	INTERNAL ELECTRICAL FITTINGS	11JUL88	14JUL88	29AUG88	1SEP88	40
216H019A68	4	4	0	13	INTERNAL ELECTRICAL FITTINGS	16JUL88	19JUL88	1SEP88	5SEP88	39
216H018A68	4	4	0	14	INTERNAL ELECTRICAL FITTINGS	20JUL88	24JUL88	5SEP88	8SEP88	38
218H015A68	4	4	0	15	INTERNAL ELECTRICAL FITTINGS	25JUL88	28JUL88	8SEP88	12SEP88	37
218H014A68	4	4	0	16	INTERNAL ELECTRICAL FITTINGS	30JUL88	2AUG88	12SEP88	15SEP88	36
218H013A68	4	4	0	17	INTERNAL ELECTRICAL FITTINGS	3AUG88	8AUG88	15SEP88	19SEP88	35
322H189A68	4	4	0	18	INTERNAL ELECTRICAL FITTINGS	9AUG88	13AUG88	19SEP88	22SEP88	34
322H189A68	4	4	0	19	INTERNAL ELECTRICAL FITTINGS	14AUG88	17AUG88	22SEP88	26SEP88	33
322H190A68	4	4	0	20	INTERNAL ELECTRICAL FITTINGS	18AUG88	22AUG88	26SEP88	29SEP88	32
216H021A68	4	4	0	21	INTERNAL ELECTRICAL FITTINGS	23AUG88	28AUG88	29SEP88	3OCT88	31
219H010A68	4	4	0	22	INTERNAL ELECTRICAL FITTINGS	29AUG88	1SEP88	3OCT88	6OCT88	30
220H007A68	4	4	0	23	INTERNAL ELECTRICAL FITTINGS	3SEP88	6SEP88	6OCT88	10OCT88	29
213H035A68	4	4	0	24	INTERNAL ELECTRICAL FITTINGS	7SEP88	11SEP88	10OCT88	13OCT88	28
213H036A68	4	4	0	25	INTERNAL ELECTRICAL FITTINGS	12SEP88	15SEP88	13OCT88	17OCT88	27
213H037A68	4	4	0	26	INTERNAL ELECTRICAL FITTINGS	17SEP88	20SEP88	17OCT88	20OCT88	26
213H032A68	4	4	0	27	INTERNAL ELECTRICAL FITTINGS	21SEP88	25SEP88	20OCT88	24OCT88	25
213H033A68	4	4	0	28	INTERNAL ELECTRICAL FITTINGS	26SEP88	29SEP88	24OCT88	27OCT88	24

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 10MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 31

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
213H033A68	4	4	0	29	INTERNAL ELECTRICAL FITTINGS	10CT88	40CT88	270CT88	310CT88	23
213H034A68	4	4	0	30	INTERNAL ELECTRICAL FITTINGS	50CT88	90CT88	310CT88	3NOV88	22
213H011A68	4	4	0	31	INTERNAL ELECTRICAL FITTINGS	100CT88	130CT88	3NOV88	3NOV88	21
213H012A68	4	4	0	32	INTERNAL ELECTRICAL FITTINGS	150CT88	180CT88	7NOV88	10NOV88	20
217H017A68	4	4	0	33	INTERNAL ELECTRICAL FITTINGS	190CT88	230CT88	10NOV88	14NOV88	19
217H016A68	4	4	0	34	INTERNAL ELECTRICAL FITTINGS	240CT88	270CT88	14NOV88	17NOV88	18
221H003A68	4	4	0	35	INTERNAL ELECTRICAL FITTINGS	290CT88	1NOV88	17NOV88	21NOV88	17
221H002A68	4	4	0	36	INTERNAL ELECTRICAL FITTINGS	2NOV88	6NOV88	21NOV88	24NOV88	16
221H001A68	4	4	0	37	INTERNAL ELECTRICAL FITTINGS	7NOV88	10NOV88	24NOV88	28NOV88	15
220H009A68	4	4	0	38	INTERNAL ELECTRICAL FITTINGS	12NOV88	15NOV88	28NOV88	1DEC88	14
220H008A68	4	4	0	39	INTERNAL ELECTRICAL FITTINGS	16NOV88	20NOV88	1DEC88	5DEC88	13
220H006A68	4	4	0	40	INTERNAL ELECTRICAL FITTINGS	21NOV88	24NOV88	5DEC88	8DEC88	12
220H005A68	4	4	0	41	INTERNAL ELECTRICAL FITTINGS	26NOV88	29NOV88	8DEC88	12DEC88	11
220H004A68	4	4	0	42	INTERNAL ELECTRICAL FITTINGS	30NOV88	4DEC88	12DEC88	15DEC88	10
320H176A68	4	4	0	43	INTERNAL ELECTRICAL FITTINGS	5DEC88	8DEC88	15DEC88	19DEC88	9
320H178A68	4	4	0	44	INTERNAL ELECTRICAL FITTINGS	10DEC88	13DEC88	19DEC88	22DEC88	8
320H179A68	4	4	0	45	INTERNAL ELECTRICAL FITTINGS	14DEC88	18DEC88	22DEC88	26DEC88	7
215H027A68	4	4	0	46	INTERNAL ELECTRICAL FITTINGS	19DEC88	22DEC88	26DEC88	29DEC88	6
215H026A68	4	4	0	47	INTERNAL ELECTRICAL FITTINGS	24DEC88	27DEC88	29DEC88	3JAN89	5
215H025A68	4	4	0	48	INTERNAL ELECTRICAL FITTINGS	28DEC88	2JAN89	3JAN89	7JAN89	4
215H024A68	4	4	0	49	INTERNAL ELECTRICAL FITTINGS	3JAN89	7JAN89	7JAN89	10JAN89	3
215H023A68	4	4	0	50	INTERNAL ELECTRICAL FITTINGS	8JAN89	11JAN89	10JAN89	14JAN89	2
215H022A68	4	4	0	51	INTERNAL ELECTRICAL FITTINGS	12JAN89	16JAN89	14JAN89	17JAN89	1
211H043A69	6	6	0	01	SANITARY FIXTURES & ACCESSORIES	25MAY88	1JUN88	17JUL88	23JUL88	44
211H042A69	6	6	0	02	SANITARY FIXTURES & ACCESSORIES	29MAY88	5JUN88	20JUL88	26JUL88	44
321H174A69	6	6	0	03	SANITARY FIXTURES & ACCESSORIES	4JUN88	9JUN88	24JUL88	30JUL88	43
321H175A69	6	6	0	04	SANITARY FIXTURES & ACCESSORIES	7JUN88	13JUN88	27JUL88	2AUG88	43
323H185A69	6	6	0	05	SANITARY FIXTURES & ACCESSORIES	12JUN88	18JUN88	31JUL88	7AUG88	42
323H186A69	6	6	0	06	SANITARY FIXTURES & ACCESSORIES	15JUN88	21JUN88	3AUG88	10AUG88	42
323H187A69	6	6	0	07	SANITARY FIXTURES & ACCESSORIES	20JUN88	26JUN88	8AUG88	14AUG88	41
214H030A69	6	6	0	08	SANITARY FIXTURES & ACCESSORIES	23JUN88	29JUN88	11AUG88	17AUG88	41
214H029A69	6	6	0	09	SANITARY FIXTURES & ACCESSORIES	28JUN88	4JUL88	15AUG88	21AUG88	40
214H028A69	6	6	0	10	SANITARY FIXTURES & ACCESSORIES	2JUL88	7JUL88	18AUG88	24AUG88	40
214H018A69	6	6	0	11	SANITARY FIXTURES & ACCESSORIES	6JUL88	12JUL88	22AUG88	29AUG88	39
214H017A69	6	6	0	12	SANITARY FIXTURES & ACCESSORIES	10JUL88	16JUL88	27AUG88	3SEP88	39
216H020A69	6	6	0	13	SANITARY FIXTURES & ACCESSORIES	14JUL88	20JUL88	30AUG88	5SEP88	38
216H019A69	6	6	0	14	SANITARY FIXTURES & ACCESSORIES	18JUL88	24JUL88	3SEP88	8SEP88	38
216H018A69	6	6	0	15	SANITARY FIXTURES & ACCESSORIES	23JUL88	28JUL88	6SEP88	12SEP88	37
218H015A69	6	6	0	16	SANITARY FIXTURES & ACCESSORIES	26JUL88	1AUG88	10SEP88	15SEP88	37
218H014A69	6	6	0	17	SANITARY FIXTURES & ACCESSORIES	31JUL88	7AUG88	13SEP88	19SEP88	36
218H013A69	6	6	0	18	SANITARY FIXTURES & ACCESSORIES	3AUG88	10AUG88	17SEP88	22SEP88	36
322H188A69	6	6	0	19	SANITARY FIXTURES & ACCESSORIES	9AUG88	15AUG88	20SEP88	26SEP88	35
322H189A69	6	6	0	20	SANITARY FIXTURES & ACCESSORIES	13AUG88	18AUG88	24SEP88	29SEP88	35
322H190A69	6	6	0	21	SANITARY FIXTURES & ACCESSORIES	17AUG88	23AUG88	27SEP88	3OCT88	34
216H021A69	6	6	0	22	SANITARY FIXTURES & ACCESSORIES	22AUG88	29AUG88	1OCT88	6OCT88	33
219H010A69	6	6	0	23	SANITARY FIXTURES & ACCESSORIES	28AUG88	3SEP88	4OCT88	10OCT88	32
220H007A69	6	6	0	24	SANITARY FIXTURES & ACCESSORIES	1SEP88	7SEP88	8OCT88	13OCT88	31
213H035A69	6	6	0	25	SANITARY FIXTURES & ACCESSORIES	6SEP88	12SEP88	11OCT88	17OCT88	30
213H036A69	6	6	0	26	SANITARY FIXTURES & ACCESSORIES	11SEP88	17SEP88	15OCT88	20OCT88	29
213H037A69	6	6	0	27	SANITARY FIXTURES & ACCESSORIES	15SEP88	21SEP88	18OCT88	24OCT88	28
213H032A69	6	6	0	28	SANITARY FIXTURES & ACCESSORIES	20SEP88	26SEP88	22OCT88	27OCT88	27
213H033A69	6	6	0	29	SANITARY FIXTURES & ACCESSORIES	25SEP88	1OCT88	25OCT88	31OCT88	26
213H034A69	6	6	0	30	SANITARY FIXTURES & ACCESSORIES	29SEP88	5OCT88	29OCT88	3NOV88	25
219H011A69	6	6	0	31	SANITARY FIXTURES & ACCESSORIES	4OCT88	10OCT88	1NOV88	7NOV88	24
219H012A69	6	6	0	32	SANITARY FIXTURES & ACCESSORIES	9OCT88	15OCT88	5NOV88	10NOV88	23
217H017A69	6	6	0	33	SANITARY FIXTURES & ACCESSORIES	13OCT88	19OCT88	8NOV88	14NOV88	22
217H016A69	6	6	0	34	SANITARY FIXTURES & ACCESSORIES	18OCT88	24OCT88	12NOV88	17NOV88	21
221H003A69	6	6	0	35	SANITARY FIXTURES & ACCESSORIES	23OCT88	29OCT88	15NOV88	21NOV88	20
221H002A69	6	6	0	36	SANITARY FIXTURES & ACCESSORIES	27OCT88	2NOV88	19NOV88	24NOV88	19
221H001A69	6	6	0	37	SANITARY FIXTURES & ACCESSORIES	1NOV88	7NOV88	22NOV88	28NOV88	18
220H009A69	6	6	0	38	SANITARY FIXTURES & ACCESSORIES	6NOV88	12NOV88	26NOV88	1DEC88	17
220H008A69	6	6	0	39	SANITARY FIXTURES & ACCESSORIES	10NOV88	16NOV88	29NOV88	5DEC88	16
220H006A69	6	6	0	40	SANITARY FIXTURES & ACCESSORIES	15NOV88	21NOV88	3DEC88	8DEC88	15
220H005A69	6	6	0	41	SANITARY FIXTURES & ACCESSORIES	20NOV88	26NOV88	6DEC88	12DEC88	14
220H004A69	6	6	0	42	SANITARY FIXTURES & ACCESSORIES	24NOV88	30NOV88	10DEC88	15DEC88	13
320H176A69	6	6	0	43	SANITARY FIXTURES & ACCESSORIES	29NOV88	5DEC88	13DEC88	19DEC88	12
320H177A69	6	6	0	44	SANITARY FIXTURES & ACCESSORIES	4DEC88	10DEC88	17DEC88	22DEC88	11
320H178A69	6	6	0	45	SANITARY FIXTURES & ACCESSORIES	8DEC88	14DEC88	20DEC88	26DEC88	10
215H027A69	6	6	0	46	SANITARY FIXTURES & ACCESSORIES	13DEC88	19DEC88	24DEC88	29DEC88	9
215H026A69	6	6	0	47	SANITARY FIXTURES & ACCESSORIES	18DEC88	24DEC88	27DEC88	3JAN89	8
215H025A69	6	6	0	48	SANITARY FIXTURES & ACCESSORIES	22DEC88	28DEC88	31DEC88	7JAN89	7
215H024A69	6	6	0	49	SANITARY FIXTURES & ACCESSORIES	27DEC88	3JAN89	4JAN89	10JAN89	6
215H023A69	6	6	0	50	SANITARY FIXTURES & ACCESSORIES	2JAN89	8JAN89	8JAN89	14JAN89	5
215H022A69	6	6	0	51	SANITARY FIXTURES & ACCESSORIES	7JAN89	12JAN89	11JAN89	17JAN89	4
211H043A70	4	4	0	01	ALUMINUM ACCESSORIES	25MAY88	29MAY88	19JUL88	23JUL88	46
211H042A70	4	4	0	02	ALUMINUM ACCESSORIES	29MAY88	2JUN88	23JUL88	26JUL88	46
321H174A70	4	4	0	03	ALUMINUM ACCESSORIES	4JUN88	7JUN88	26JUL88	30JUL88	45
321H175A70	4	4	0	04	ALUMINUM ACCESSORIES	7JUN88	11JUN88	30JUL88	2AUG88	45
323H185A70	4	4	0	05	ALUMINUM ACCESSORIES	12JUN88	15JUN88	2AUG88	7AUG88	44
323H186A70	4	4	0	06	ALUMINUM ACCESSORIES	15JUN88	19JUN88	7AUG88	10AUG88	44
323H187A70	4	4	0	07	ALUMINUM ACCESSORIES	20JUN88	23JUN88	10AUG88	14AUG88	43
214H030A70	4	4	0	08	ALUMINUM ACCESSORIES	23JUN88	27JUN88	14AUG88	17AUG88	43
214H029A70	4	4	0	09	ALUMINUM ACCESSORIES	28JUN88	2JUL88	17AUG88	21AUG88	42
214H028A70	4	4	0	10	ALUMINUM ACCESSORIES	2JUL88	5JUL88	21AUG88	24AUG88	42
214H031A70	4	4	0	11	ALUMINUM ACCESSORIES	6JUL88	10JUL88	24AUG88	29AUG88	41
214H032A70	4	4	0	12	ALUMINUM ACCESSORIES	10JUL88	13JUL88	29AUG88	1SEP88	41
216H020A70	4	4	0	13	ALUMINUM ACCESSORIES	14JUL88	18JUL88	1SEP88	5SEP88	40
216H019A70	4	4	0	14	ALUMINUM ACCESSORIES	18JUL88	21JUL88	5SEP88	8SEP88	40
216H018A70	4	4	0	15	ALUMINUM ACCESSORIES	23JUL88	26JUL88	8SEP88	12SEP88	39
218H015A70	4	4	0	16	ALUMINUM ACCESSORIES	26JUL88	30JUL88	12SEP88	15SEP88	39
218H014A70	4	4	0	17	ALUMINUM ACCESSORIES	31JUL88	3AUG88	15SEP88	19SEP88	38
218H013A70	4	4	0	18	ALUMINUM ACCESSORIES	3AUG88	8AUG88	19SEP88	22SEP88	38
322H188A70	4	4	0	19	ALUMINUM ACCESSORIES	9AUG88	13AUG88	22SEP88	26SEP88	37
322H189A70	4	4	0	20	ALUMINUM ACCESSORIES	13AUG88	16AUG88	26SEP88	29SEP88	37
322H190A70	4	4	0	21	ALUMINUM ACCESSORIES	17AUG88	21AUG88	29SEP88	3OCT88	36
216H021A70	4	4	0	22	ALUMINUM ACCESSORIES	22AUG88	27AUG88	3OCT88	6OCT88	35

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 30MAR99*

18:31

Rev'd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB98 PAGE NO. 12

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
219H010A70	4	4	0	23	ALUMINUM ACCESSORIES	28AUG88	31AUG88	60CT88	100CT88	34
220H007A70	4	4	0	24	ALUMINUM ACCESSORIES	1SEP88	5SEP88	100CT88	110CT88	33
213H035A70	4	4	0	25	ALUMINUM ACCESSORIES	6SEP88	10SEP88	130CT88	170CT88	32
213H036A70	4	4	0	26	ALUMINUM ACCESSORIES	11SEP88	14SEP88	170CT88	200CT88	31
213H037A70	4	4	0	27	ALUMINUM ACCESSORIES	15SEP88	19SEP88	200CT88	240CT88	30
213H032A70	4	4	0	28	ALUMINUM ACCESSORIES	20SEP88	24SEP88	240CT88	270CT88	29
213H033A70	4	4	0	29	ALUMINUM ACCESSORIES	25SEP88	28SEP88	270CT88	310CT88	28
213H034A70	4	4	0	30	ALUMINUM ACCESSORIES	29SEP88	30CT88	310CT88	3NOV88	27
219H011A70	4	4	0	31	ALUMINUM ACCESSORIES	40CT88	80CT88	3NOV88	7NOV88	26
219H012A70	4	4	0	32	ALUMINUM ACCESSORIES	90CT88	120CT88	7NOV88	10NOV88	25
217H017A70	4	4	0	33	ALUMINUM ACCESSORIES	130CT88	170CT88	10NOV88	14NOV88	24
217H016A70	4	4	0	34	ALUMINUM ACCESSORIES	180CT88	220CT88	14NOV88	17NOV88	23
221H003A70	4	4	0	35	ALUMINUM ACCESSORIES	230CT88	260CT88	17NOV88	21NOV88	22
221H002A70	4	4	0	36	ALUMINUM ACCESSORIES	270CT88	310CT88	21NOV88	24NOV88	21
221H001A70	4	4	0	37	ALUMINUM ACCESSORIES	1NOV88	5NOV88	24NOV88	28NOV88	20
220H009A70	4	4	0	38	ALUMINUM ACCESSORIES	6NOV88	9NOV88	28NOV88	1DEC88	19
220H008A70	4	4	0	39	ALUMINUM ACCESSORIES	10NOV88	14NOV88	1DEC88	5DEC88	18
220H006A70	4	4	0	40	ALUMINUM ACCESSORIES	15NOV88	19NOV88	5DEC88	8DEC88	17
220H005A70	4	4	0	41	ALUMINUM ACCESSORIES	20NOV88	23NOV88	8DEC88	12DEC88	16
220H004A70	4	4	0	42	ALUMINUM ACCESSORIES	24NOV88	28NOV88	12DEC88	15DEC88	15
220H176A70	4	4	0	43	ALUMINUM ACCESSORIES	29NOV88	3DEC88	15DEC88	19DEC88	14
320H177A70	4	4	0	44	ALUMINUM ACCESSORIES	4DEC88	7DEC88	19DEC88	22DEC88	13
320H178A70	4	4	0	45	ALUMINUM ACCESSORIES	8DEC88	12DEC88	22DEC88	26DEC88	12
215H027A70	4	4	0	46	ALUMINUM ACCESSORIES	13DEC88	17DEC88	26DEC88	29DEC88	11
215H026A70	4	4	0	47	ALUMINUM ACCESSORIES	18DEC88	21DEC88	29DEC88	3JAN89	10
215H025A70	4	4	0	48	ALUMINUM ACCESSORIES	22DEC88	26DEC88	3JAN89	7JAN89	9
215H024A70	4	4	0	49	ALUMINUM ACCESSORIES	27DEC88	31DEC88	7JAN89	10JAN89	8
215H023A70	4	4	0	50	ALUMINUM ACCESSORIES	2JAN89	5JAN89	10JAN89	14JAN89	7
215H022A70	4	4	0	51	ALUMINUM ACCESSORIES	7JAN89	10JAN89	14JAN89	17JAN89	6
211H043A71	9	9	0	01	BRICK WORKS OF BOUNDARY WALL	5JUN88	14JUN88	18JUN88	27JUN88	11
211H042A71	9	9	0	02	BRICK WORKS OF BOUNDARY WALL	5JUN88	14JUN88	21JUN88	30JUN88	10
321H174A71	9	9	0	03	BRICK WORKS OF BOUNDARY WALL	12JUN88	21JUN88	25JUN88	4JUL88	11
321H175A71	9	9	0	04	BRICK WORKS OF BOUNDARY WALL	15JUN88	25JUN88	28JUN88	7JUL88	11
211H044A71	9	9	0	05	BRICK WORKS OF BOUNDARY WALL	19JUN88	28JUN88	2JUL88	11JUL88	11
323H185A71	9	9	0	06	BRICK WORKS OF BOUNDARY WALL	22JUN88	2JUL88	5JUL88	14JUL88	11
323H186A71	9	9	0	07	BRICK WORKS OF BOUNDARY WALL	26JUN88	5JUL88	9JUL88	18JUL88	11
323H187A71	9	9	0	08	BRICK WORKS OF BOUNDARY WALL	29JUN88	9JUL88	12JUL88	21JUL88	11
214H030A71	9	9	0	09	BRICK WORKS OF BOUNDARY WALL	3JUL88	12JUL88	16JUL88	25JUL88	11
214H029A71	9	9	0	10	BRICK WORKS OF BOUNDARY WALL	6JUL88	16JUL88	19JUL88	28JUL88	11
214H028A71	9	9	0	11	BRICK WORKS OF BOUNDARY WALL	10JUL88	19JUL88	23JUL88	1AUG88	11
214H031A71	9	9	0	12	BRICK WORKS OF BOUNDARY WALL	13JUL88	23JUL88	26JUL88	6AUG88	11
216H020A71	9	9	0	13	BRICK WORKS OF BOUNDARY WALL	17JUL88	26JUL88	30JUL88	9AUG88	11
216H019A71	9	9	0	14	BRICK WORKS OF BOUNDARY WALL	20JUL88	30JUL88	2AUG88	13AUG88	11
216H018A71	9	9	0	15	BRICK WORKS OF BOUNDARY WALL	24JUL88	2AUG88	7AUG88	16AUG88	11
218H015A71	9	9	0	16	BRICK WORKS OF BOUNDARY WALL	27JUL88	7AUG88	10AUG88	20AUG88	11
218H014A71	9	9	0	17	BRICK WORKS OF BOUNDARY WALL	31JUL88	10AUG88	14AUG88	23AUG88	11
218H013A71	9	9	0	18	BRICK WORKS OF BOUNDARY WALL	3AUG88	14AUG88	17AUG88	28AUG88	11
322H188A71	9	9	0	19	BRICK WORKS OF BOUNDARY WALL	8AUG88	17AUG88	21AUG88	31AUG88	11
322H189A71	9	9	0	20	BRICK WORKS OF BOUNDARY WALL	11AUG88	21AUG88	24AUG88	4SEP88	11
322H190A71	9	9	0	21	BRICK WORKS OF BOUNDARY WALL	15AUG88	24AUG88	29AUG88	7SEP88	11
216H021A71	9	9	0	22	BRICK WORKS OF BOUNDARY WALL	18AUG88	29AUG88	1SEP88	11SEP88	11
219H010A71	9	9	0	23	BRICK WORKS OF BOUNDARY WALL	22AUG88	1SEP88	5SEP88	14SEP88	11
220H007A71	9	9	0	24	BRICK WORKS OF BOUNDARY WALL	27AUG88	5SEP88	8SEP88	18SEP88	11
213H035A71	9	9	0	25	BRICK WORKS OF BOUNDARY WALL	30AUG88	8SEP88	12SEP88	21SEP88	11
213H036A71	9	9	0	26	BRICK WORKS OF BOUNDARY WALL	3SEP88	12SEP88	15SEP88	25SEP88	11
213H037A71	9	9	0	27	BRICK WORKS OF BOUNDARY WALL	6SEP88	15SEP88	19SEP88	28SEP88	11
213H032A71	9	9	0	28	BRICK WORKS OF BOUNDARY WALL	10SEP88	19SEP88	22SEP88	20CT88	11
213H033A71	9	9	0	29	BRICK WORKS OF BOUNDARY WALL	13SEP88	22SEP88	26SEP88	5OCT88	11
213H034A71	9	9	0	30	BRICK WORKS OF BOUNDARY WALL	17SEP88	26SEP88	29SEP88	9OCT88	11
219H011A71	9	9	0	31	BRICK WORKS OF BOUNDARY WALL	21SEP88	10CT88	30CT88	120CT88	10
219H012A71	9	9	0	32	BRICK WORKS OF BOUNDARY WALL	24SEP88	30CT88	60CT88	160CT88	11
217H017A71	9	9	0	33	BRICK WORKS OF BOUNDARY WALL	29SEP88	9OCT88	100CT88	190CT88	9
217H016A71	9	9	0	34	BRICK WORKS OF BOUNDARY WALL	20CT88	110CT88	130CT88	230CT88	10
221H003A71	9	9	0	35	BRICK WORKS OF BOUNDARY WALL	80CT88	170CT88	170CT88	260CT88	8
221H002A71	9	9	0	36	BRICK WORKS OF BOUNDARY WALL	100CT88	190CT88	200CT88	300CT88	9
221H001A71	9	9	0	37	BRICK WORKS OF BOUNDARY WALL	160CT88	250CT88	240CT88	3NOV88	7
220H009A71	9	9	0	38	BRICK WORKS OF BOUNDARY WALL	180CT88	270CT88	270CT88	6NOV88	8
220H008A71	9	9	0	39	BRICK WORKS OF BOUNDARY WALL	240CT88	2NOV88	310CT88	9NOV88	6
220H006A71	9	9	0	40	BRICK WORKS OF BOUNDARY WALL	260CT88	5NOV88	3NOV88	13NOV88	7
220H005A71	9	9	0	41	BRICK WORKS OF BOUNDARY WALL	1NOV88	10NOV88	7NOV88	16NOV88	5
220H004A71	9	9	0	42	BRICK WORKS OF BOUNDARY WALL	3NOV88	13NOV88	10NOV88	20NOV88	6
320H176A71	9	9	0	43	BRICK WORKS OF BOUNDARY WALL	9NOV88	19NOV88	14NOV88	23NOV88	4
320H177A71	9	9	0	44	BRICK WORKS OF BOUNDARY WALL	12NOV88	21NOV88	17NOV88	27NOV88	5
320H178A71	9	9	0	45	BRICK WORKS OF BOUNDARY WALL	17NOV88	27NOV88	21NOV88	30NOV88	3
215H027A71	9	9	0	46	BRICK WORKS OF BOUNDARY WALL	20NOV88	29NOV88	24NOV88	4DEC88	4
215H026A71	9	9	0	47	BRICK WORKS OF BOUNDARY WALL	26NOV88	5DEC88	28NOV88	7DEC88	2
215H025A71	9	9	0	48	BRICK WORKS OF BOUNDARY WALL	29NOV88	7DEC88	1DEC88	11DEC88	3
215H024A71	9	9	0	49	BRICK WORKS OF BOUNDARY WALL	4DEC88	13DEC88	5DEC88	14DEC88	1
215H023A71	9	9	0	50	BRICK WORKS OF BOUNDARY WALL	6DEC88	15DEC88	8DEC88	18DEC88	2
215H022A71	9	9	0	51	BRICK WORKS OF BOUNDARY WALL	12DEC88	21DEC88	12DEC88	21DEC88	0
211H043A72	6	6	0	01	BOUNDARY WALL CAST IN SITU COPING	15JUN88	21JUN88	28JUN88	4JUL88	11
211H042A72	6	6	0	02	BOUNDARY WALL CAST IN SITU COPING	15JUN88	21JUN88	2JUL88	7JUL88	14
321H174A72	6	6	0	03	BOUNDARY WALL CAST IN SITU COPING	22JUN88	28JUN88	5JUL88	11JUL88	11
321H175A72	6	6	0	04	BOUNDARY WALL CAST IN SITU COPING	26JUN88	2JUL88	9JUL88	14JUL88	11
211H044A72	6	6	0	05	BOUNDARY WALL CAST IN SITU COPING	29JUN88	5JUL88	12JUL88	18JUL88	11
323H185A72	6	6	0	06	BOUNDARY WALL CAST IN SITU COPING	3JUL88	9JUL88	16JUL88	21JUL88	11
323H186A72	6	6	0	07	BOUNDARY WALL CAST IN SITU COPING	6JUL88	12JUL88	19JUL88	25JUL88	11
323H187A72	6	6	0	08	BOUNDARY WALL CAST IN SITU COPING	10JUL88	16JUL88	23JUL88	28JUL88	11
214H030A72	6	6	0	09	BOUNDARY WALL CAST IN SITU COPING	13JUL88	19JUL88	26JUL88	1AUG88	11
214H029A72	6	6	0	10	BOUNDARY WALL CAST IN SITU COPING	17JUL88	23JUL88	30JUL88	6AUG88	11
214H028A72	6	6	0	11	BOUNDARY WALL CAST IN SITU COPING	20JUL88	26JUL88	2AUG88	9AUG88	11
214H031A72	6	6	0	12	BOUNDARY WALL CAST IN SITU COPING	24JUL88	30JUL88	7AUG88	13AUG88	11
216H020A72	6	6	0	13	BOUNDARY WALL CAST IN SITU COPING	27JUL88	2AUG88	10AUG88	16AUG88	11
216H019A72	6	6	0	14	BOUNDARY WALL CAST IN SITU COPING	31JUL88	7AUG88	14AUG88	20AUG88	11
216H018A72	6	6	0	15	BOUNDARY WALL CAST IN SITU COPING	3AUG88	10AUG88	17AUG88	23AUG88	11
218H015A72	6	6	0	16	BOUNDARY WALL CAST IN SITU COPING	8AUG88	14AUG88	21AUG88	28AUG88	11

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205
18:31

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR95*

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 33

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
218H014A72	6	6	0	17	BOUNDARY WALL CAST IN SITU COPING	11AUG88	17AUG88	24AUG88	31AUG88	11
218H013A72	6	6	0	18	BOUNDARY WALL CAST IN SITU COPING	15AUG88	21AUG88	29AUG88	4SEP88	11
322H188A72	6	6	0	19	BOUNDARY WALL CAST IN SITU COPING	18AUG88	24AUG88	1SEP88	7SEP88	11
322H189A72	6	6	0	20	BOUNDARY WALL CAST IN SITU COPING	22AUG88	29AUG88	5SEP88	11SEP88	11
322H190A72	6	6	0	21	BOUNDARY WALL CAST IN SITU COPING	27AUG88	1SEP88	8SEP88	14SEP88	11
216H021A72	6	6	0	22	BOUNDARY WALL CAST IN SITU COPING	30AUG88	5SEP88	12SEP88	18SEP88	11
219H010A72	6	6	0	23	BOUNDARY WALL CAST IN SITU COPING	3SEP88	8SEP88	15SEP88	21SEP88	11
220H007A72	6	6	0	24	BOUNDARY WALL CAST IN SITU COPING	6SEP88	12SEP88	19SEP88	25SEP88	11
213H015A72	6	6	0	25	BOUNDARY WALL CAST IN SITU COPING	10SEP88	15SEP88	22SEP88	28SEP88	11
213H016A72	6	6	0	26	BOUNDARY WALL CAST IN SITU COPING	13SEP88	19SEP88	26SEP88	30OCT88	11
213H017A72	6	6	0	27	BOUNDARY WALL CAST IN SITU COPING	17SEP88	22SEP88	29SEP88	50CT88	11
213H032A72	6	6	0	28	BOUNDARY WALL CAST IN SITU COPING	20SEP88	26SEP88	30CT88	90CT88	11
213H033A72	6	6	0	29	BOUNDARY WALL CAST IN SITU COPING	24SEP88	29SEP88	60CT88	120CT88	11
213H034A72	6	6	0	30	BOUNDARY WALL CAST IN SITU COPING	27SEP88	30CT88	100CT88	160CT88	11
219H011A72	6	6	0	31	BOUNDARY WALL CAST IN SITU COPING	20CT88	80CT88	130CT88	190CT88	10
219H012A72	6	6	0	32	BOUNDARY WALL CAST IN SITU COPING	40CT88	100CT88	170CT88	230CT88	11
217H017A72	6	6	0	33	BOUNDARY WALL CAST IN SITU COPING	100CT88	160CT88	200CT88	260CT88	9
217H016A72	6	6	0	34	BOUNDARY WALL CAST IN SITU COPING	120CT88	180CT88	240CT88	300CT88	10
221H003A72	6	6	0	35	BOUNDARY WALL CAST IN SITU COPING	180CT88	240CT88	270CT88	280CT88	8
221H002A72	6	6	0	36	BOUNDARY WALL CAST IN SITU COPING	200CT88	260CT88	310CT88	360CT88	9
221H001A72	6	6	0	37	BOUNDARY WALL CAST IN SITU COPING	260CT88	320CT88	380CT88	430CT88	7
220H009A72	6	6	0	38	BOUNDARY WALL CAST IN SITU COPING	290CT88	350CT88	410CT88	460CT88	8
220H008A72	6	6	0	39	BOUNDARY WALL CAST IN SITU COPING	3NOV88	3NOV88	10NOV88	16NOV88	6
220H007A72	6	6	0	40	BOUNDARY WALL CAST IN SITU COPING	6NOV88	12NOV88	14NOV88	20NOV88	7
220H005A72	6	6	0	41	BOUNDARY WALL CAST IN SITU COPING	12NOV88	17NOV88	17NOV88	23NOV88	5
220H004A72	6	6	0	42	BOUNDARY WALL CAST IN SITU COPING	14NOV88	20NOV88	21NOV88	27NOV88	6
320H176A72	6	6	0	43	BOUNDARY WALL CAST IN SITU COPING	20NOV88	26NOV88	24NOV88	30NOV88	4
320H177A72	6	6	0	44	BOUNDARY WALL CAST IN SITU COPING	22NOV88	28NOV88	28NOV88	4DEC88	5
320H178A72	6	6	0	45	BOUNDARY WALL CAST IN SITU COPING	28NOV88	4DEC88	1DEC88	7DEC88	3
215H027A72	6	6	0	46	BOUNDARY WALL CAST IN SITU COPING	30NOV88	6DEC88	5DEC88	11DEC88	4
215H026A72	6	6	0	47	BOUNDARY WALL CAST IN SITU COPING	6DEC88	12DEC88	8DEC88	14DEC88	2
215H025A72	6	6	0	48	BOUNDARY WALL CAST IN SITU COPING	8DEC88	14DEC88	12DEC88	18DEC88	3
215H024A72	6	6	0	49	BOUNDARY WALL CAST IN SITU COPING	14DEC88	20DEC88	15DEC88	21DEC88	1
215H023A72	6	6	0	50	BOUNDARY WALL CAST IN SITU COPING	17DEC88	22DEC88	19DEC88	25DEC88	2
215H022A72	6	6	0	51	BOUNDARY WALL CAST IN SITU COPING	22DEC88	28DEC88	22DEC88	28DEC88	0
211H043A73	1	1	0	01	WATER SUPPLY HOUSE CONNECTION	15JUN88	15JUN88	4DEC88	4DEC88	145
211H042A73	1	1	0	02	WATER SUPPLY HOUSE CONNECTION	16JUN88	16JUN88	5DEC88	5DEC88	145
321H174A73	1	1	0	03	WATER SUPPLY HOUSE CONNECTION	22JUN88	22JUN88	6DEC88	6DEC88	141
321H175A73	1	1	0	04	WATER SUPPLY HOUSE CONNECTION	26JUN88	26JUN88	7DEC88	7DEC88	139
211H044A73	1	1	0	05	WATER SUPPLY HOUSE CONNECTION	29JUN88	29JUN88	8DEC88	8DEC88	137
323H185A73	1	1	0	06	WATER SUPPLY HOUSE CONNECTION	3JUL88	3JUL88	10DEC88	10DEC88	135
323H186A73	1	1	0	07	WATER SUPPLY HOUSE CONNECTION	6JUL88	6JUL88	11DEC88	11DEC88	133
323H187A73	1	1	0	08	WATER SUPPLY HOUSE CONNECTION	10JUL88	10JUL88	12DEC88	12DEC88	131
214H030A73	1	1	0	09	WATER SUPPLY HOUSE CONNECTION	13JUL88	13JUL88	13DEC88	13DEC88	129
214H029A73	1	1	0	10	WATER SUPPLY HOUSE CONNECTION	17JUL88	17JUL88	14DEC88	14DEC88	127
214H028A73	1	1	0	11	WATER SUPPLY HOUSE CONNECTION	20JUL88	20JUL88	15DEC88	15DEC88	125
214H031A73	1	1	0	12	WATER SUPPLY HOUSE CONNECTION	24JUL88	24JUL88	17DEC88	17DEC88	123
216H020A73	1	1	0	13	WATER SUPPLY HOUSE CONNECTION	27JUL88	27JUL88	18DEC88	18DEC88	121
216H019A73	1	1	0	14	WATER SUPPLY HOUSE CONNECTION	31JUL88	31JUL88	19DEC88	19DEC88	119
216H018A73	1	1	0	15	WATER SUPPLY HOUSE CONNECTION	3AUG88	3AUG88	20DEC88	20DEC88	117
218H015A73	1	1	0	16	WATER SUPPLY HOUSE CONNECTION	8AUG88	8AUG88	21DEC88	21DEC88	115
218H014A73	1	1	0	17	WATER SUPPLY HOUSE CONNECTION	11AUG88	11AUG88	22DEC88	22DEC88	113
218H013A73	1	1	0	18	WATER SUPPLY HOUSE CONNECTION	15AUG88	15AUG88	24DEC88	24DEC88	111
322H188A73	1	1	0	19	WATER SUPPLY HOUSE CONNECTION	18AUG88	18AUG88	25DEC88	25DEC88	109
322H189A73	1	1	0	20	WATER SUPPLY HOUSE CONNECTION	22AUG88	22AUG88	26DEC88	26DEC88	107
322H190A73	1	1	0	21	WATER SUPPLY HOUSE CONNECTION	27AUG88	27AUG88	27DEC88	27DEC88	105
216H021A73	1	1	0	22	WATER SUPPLY HOUSE CONNECTION	30AUG88	30AUG88	28DEC88	28DEC88	103
219H010A73	1	1	0	23	WATER SUPPLY HOUSE CONNECTION	3SEP88	3SEP88	29DEC88	29DEC88	101
220H007A73	1	1	0	24	WATER SUPPLY HOUSE CONNECTION	6SEP88	6SEP88	31DEC88	31DEC88	99
220H006A73	1	1	0	25	WATER SUPPLY HOUSE CONNECTION	10SEP88	10SEP88	3JAN89	3JAN89	97
220H005A73	1	1	0	26	WATER SUPPLY HOUSE CONNECTION	13SEP88	13SEP88	5JAN89	5JAN89	95
220H004A73	1	1	0	27	WATER SUPPLY HOUSE CONNECTION	17SEP88	17SEP88	8JAN89	8JAN89	93
213H032A73	1	1	0	28	WATER SUPPLY HOUSE CONNECTION	20SEP88	20SEP88	5JAN89	5JAN89	91
213H033A73	1	1	0	29	WATER SUPPLY HOUSE CONNECTION	24SEP88	24SEP88	7JAN89	7JAN89	89
213H034A73	1	1	0	30	WATER SUPPLY HOUSE CONNECTION	27SEP88	27SEP88	8JAN89	8JAN89	87
219H011A73	1	1	0	31	WATER SUPPLY HOUSE CONNECTION	30CT88	30CT88	9JAN89	9JAN89	84
219H012A73	1	1	0	32	WATER SUPPLY HOUSE CONNECTION	40CT88	40CT88	10JAN89	10JAN89	83
217H017A73	1	1	0	33	WATER SUPPLY HOUSE CONNECTION	100CT88	100CT88	11JAN89	11JAN89	79
217H016A73	1	1	0	34	WATER SUPPLY HOUSE CONNECTION	120CT88	120CT88	12JAN89	12JAN89	78
221H003A73	1	1	0	35	WATER SUPPLY HOUSE CONNECTION	180CT88	180CT88	14JAN89	14JAN89	74
221H002A73	1	1	0	36	WATER SUPPLY HOUSE CONNECTION	200CT88	200CT88	15JAN89	15JAN89	73
221H001A73	1	1	0	37	WATER SUPPLY HOUSE CONNECTION	260CT88	260CT88	16JAN89	16JAN89	69
220H009A73	1	1	0	38	WATER SUPPLY HOUSE CONNECTION	290CT88	290CT88	17JAN89	17JAN89	68
220H008A73	1	1	0	39	WATER SUPPLY HOUSE CONNECTION	3NOV88	3NOV88	18JAN89	18JAN89	64
220H006A73	1	1	0	40	WATER SUPPLY HOUSE CONNECTION	6NOV88	6NOV88	19JAN89	19JAN89	63
220H005A73	1	1	0	41	WATER SUPPLY HOUSE CONNECTION	12NOV88	12NOV88	21JAN89	21JAN89	59
220H004A73	1	1	0	42	WATER SUPPLY HOUSE CONNECTION	14NOV88	14NOV88	22JAN89	22JAN89	58
320H176A73	1	1	0	43	WATER SUPPLY HOUSE CONNECTION	20NOV88	20NOV88	23JAN89	23JAN89	54
320H177A73	1	1	0	44	WATER SUPPLY HOUSE CONNECTION	22NOV88	22NOV88	24JAN89	24JAN89	53
320H178A73	1	1	0	45	WATER SUPPLY HOUSE CONNECTION	28NOV88	28NOV88	25JAN89	25JAN89	49
215H027A73	1	1	0	46	WATER SUPPLY HOUSE CONNECTION	30NOV88	30NOV88	26JAN89	26JAN89	48
215H026A73	1	1	0	47	WATER SUPPLY HOUSE CONNECTION	6DEC88	6DEC88	28JAN89	28JAN89	44
215H025A73	1	1	0	48	WATER SUPPLY HOUSE CONNECTION	8DEC88	8DEC88	29JAN89	29JAN89	43
215H024A73	1	1	0	49	WATER SUPPLY HOUSE CONNECTION	14DEC88	14DEC88	30JAN89	30JAN89	39
215H023A73	1	1	0	50	WATER SUPPLY HOUSE CONNECTION	17DEC88	17DEC88	31JAN89	31JAN89	38
215H022A73	1	1	0	51	WATER SUPPLY HOUSE CONNECTION	22DEC88	22DEC88	1FEB89	1FEB89	34
211H043A74	10	10	0	01	YARD TERRAZZO TILES & MASTIC WORKS	22JUN88	3JUL88	5JUL88	16JUL88	11
211H042A74	10	10	0	02	YARD TERRAZZO TILES & MASTIC WORKS	22JUN88	3JUL88	9JUL88	19JUL88	14
321H174A74	10	10	0	03	YARD TERRAZZO TILES & MASTIC WORKS	29JUN88	10JUL88	12JUL88	23JUL88	11
321H175A74	10	10	0	04	YARD TERRAZZO TILES & MASTIC WORKS	3JUL88	13JUL88	16JUL88	26JUL88	11
211H044A74	10	10	0	05	YARD TERRAZZO TILES & MASTIC WORKS	6JUL88	17JUL88	19JUL88	30JUL88	11
323H185A74	10	10	0	06	YARD TERRAZZO TILES & MASTIC WORKS	10JUL88	20JUL88	23JUL88	2AUG88	11
323H186A74	10	10	0	07	YARD TERRAZZO TILES & MASTIC WORKS	13JUL88	24JUL88	26JUL88	7AUG88	11
323H187A74	10	10	0	08	YARD TERRAZZO TILES & MASTIC WORKS	17JUL88	27JUL88	30JUL88	10AUG88	11
214H030A74	10	10	0	09	YARD TERRAZZO TILES & MASTIC WORKS	20JUL88	31JUL88	2AUG88	14AUG88	11
214H029A74	10	10	0	10	YARD TERRAZZO TILES & MASTIC WORKS	24JUL88	3AUG88	7AUG88	17AUG88	11

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 34

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
214H028A74	10	10	0	11	YARD TERRAZZO TILES & MASTIC WORKS	27JUL88	8AUG88	10AUG88	21AUG88	11
214H031A74	10	10	0	12	YARD TERRAZZO TILES & MASTIC WORKS	31JUL88	11AUG88	14AUG88	24AUG88	11
216H020A74	10	10	0	13	YARD TERRAZZO TILES & MASTIC WORKS	3AUG88	15AUG88	17AUG88	29AUG88	11
216H019A74	10	10	0	14	YARD TERRAZZO TILES & MASTIC WORKS	8AUG88	18AUG88	21AUG88	1SEP88	11
216H018A74	10	10	0	15	YARD TERRAZZO TILES & MASTIC WORKS	11AUG88	22AUG88	24AUG88	5SEP88	11
218H015A74	10	10	0	16	YARD TERRAZZO TILES & MASTIC WORKS	15AUG88	27AUG88	29AUG88	8SEP88	11
218H014A74	10	10	0	17	YARD TERRAZZO TILES & MASTIC WORKS	18AUG88	30AUG88	1SEP88	12SEP88	11
218H013A74	10	10	0	18	YARD TERRAZZO TILES & MASTIC WORKS	22AUG88	3SEP88	5SEP88	15SEP88	11
322H188A74	10	10	0	19	YARD TERRAZZO TILES & MASTIC WORKS	27AUG88	6SEP88	8SEP88	19SEP88	11
322H189A74	10	10	0	20	YARD TERRAZZO TILES & MASTIC WORKS	30AUG88	10SEP88	12SEP88	22SEP88	11
322H190A74	10	10	0	21	YARD TERRAZZO TILES & MASTIC WORKS	3SEP88	13SEP88	15SEP88	26SEP88	11
216H021A74	10	10	0	22	YARD TERRAZZO TILES & MASTIC WORKS	6SEP88	17SEP88	19SEP88	29SEP88	11
219H010A74	10	10	0	23	YARD TERRAZZO TILES & MASTIC WORKS	10SEP88	20SEP88	22SEP88	30CT88	11
220H007A74	10	10	0	24	YARD TERRAZZO TILES & MASTIC WORKS	13SEP88	24SEP88	26SEP88	6OCT88	11
213H035A74	10	10	0	25	YARD TERRAZZO TILES & MASTIC WORKS	17SEP88	27SEP88	29SEP88	10OCT88	11
213H036A74	10	10	0	26	YARD TERRAZZO TILES & MASTIC WORKS	20SEP88	1OCT88	3OCT88	13OCT88	11
213H037A74	10	10	0	27	YARD TERRAZZO TILES & MASTIC WORKS	24SEP88	4OCT88	6OCT88	17OCT88	11
213H032A74	10	10	0	28	YARD TERRAZZO TILES & MASTIC WORKS	27SEP88	8OCT88	10OCT88	20OCT88	11
213H033A74	10	10	0	29	YARD TERRAZZO TILES & MASTIC WORKS	1OCT88	13OCT88	13OCT88	24OCT88	11
213H034A74	10	10	0	30	YARD TERRAZZO TILES & MASTIC WORKS	4OCT88	15OCT88	17OCT88	27OCT88	11
219H011A74	10	10	0	31	YARD TERRAZZO TILES & MASTIC WORKS	9OCT88	19OCT88	20OCT88	31OCT88	11
219H012A74	10	10	0	32	YARD TERRAZZO TILES & MASTIC WORKS	11OCT88	22OCT88	24OCT88	3NOV88	10
217H017A74	10	10	0	33	YARD TERRAZZO TILES & MASTIC WORKS	17OCT88	27OCT88	27OCT88	7NOV88	9
217H016A74	10	10	0	34	YARD TERRAZZO TILES & MASTIC WORKS	19OCT88	30OCT88	31OCT88	10NOV88	10
221H003A74	10	10	0	35	YARD TERRAZZO TILES & MASTIC WORKS	25OCT88	5NOV88	3NOV88	14NOV88	8
221H002A74	10	10	0	36	YARD TERRAZZO TILES & MASTIC WORKS	27OCT88	7NOV88	7NOV88	17NOV88	9
221H001A74	10	10	0	37	YARD TERRAZZO TILES & MASTIC WORKS	2NOV88	13NOV88	10NOV88	21NOV88	7
220H009A74	10	10	0	38	YARD TERRAZZO TILES & MASTIC WORKS	5NOV88	15NOV88	14NOV88	24NOV88	8
220H008A74	10	10	0	39	YARD TERRAZZO TILES & MASTIC WORKS	10NOV88	21NOV88	17NOV88	28NOV88	6
220H006A74	10	10	0	40	YARD TERRAZZO TILES & MASTIC WORKS	13NOV88	23NOV88	21NOV88	1DEC88	7
220H005A74	10	10	0	41	YARD TERRAZZO TILES & MASTIC WORKS	19NOV88	29NOV88	24NOV88	5DEC88	5
220H004A74	10	10	0	42	YARD TERRAZZO TILES & MASTIC WORKS	21NOV88	1DEC88	28NOV88	8DEC88	6
320H176A74	10	10	0	43	YARD TERRAZZO TILES & MASTIC WORKS	27NOV88	7DEC88	1DEC88	12DEC88	6
320H177A74	10	10	0	44	YARD TERRAZZO TILES & MASTIC WORKS	29NOV88	10DEC88	5DEC88	15DEC88	5
320H178A74	10	10	0	45	YARD TERRAZZO TILES & MASTIC WORKS	5DEC88	15DEC88	8DEC88	19DEC88	3
215H027A74	10	10	0	46	YARD TERRAZZO TILES & MASTIC WORKS	7DEC88	18DEC88	12DEC88	22DEC88	4
215H026A74	10	10	0	47	YARD TERRAZZO TILES & MASTIC WORKS	13DEC88	24DEC88	15DEC88	26DEC88	2
215H025A74	10	10	0	48	YARD TERRAZZO TILES & MASTIC WORKS	15DEC88	26DEC88	19DEC88	29DEC88	3
215H024A74	10	10	0	49	YARD TERRAZZO TILES & MASTIC WORKS	21DEC88	2JAN89	22DEC88	3JAN89	2
215H023A74	10	10	0	50	YARD TERRAZZO TILES & MASTIC WORKS	24DEC88	4JAN89	26DEC88	7JAN89	1
215H022A74	10	10	0	51	YARD TERRAZZO TILES & MASTIC WORKS	29DEC88	10JAN89	29DEC88	10JAN89	0
211H043A75	5	5	0	01	FRAMES & FINISHES OF YARD HAND/MANHOLE	22JUN88	27JUN88	9JUL88	13JUL88	14
211H042A75	5	5	0	02	FRAMES & FINISHES OF YARD HAND/MANHOLE	22JUN88	27JUN88	12JUL88	17JUL88	17
321H174A75	5	5	0	03	FRAMES & FINISHES OF YARD HAND/MANHOLE	29JUN88	4JUL88	16JUL88	20JUL88	14
321H175A75	5	5	0	04	FRAMES & FINISHES OF YARD HAND/MANHOLE	3JUL88	7JUL88	19JUL88	24JUL88	14
321H044A75	5	5	0	05	FRAMES & FINISHES OF YARD HAND/MANHOLE	6JUL88	11JUL88	23JUL88	27JUL88	14
323H185A75	5	5	0	06	FRAMES & FINISHES OF YARD HAND/MANHOLE	10JUL88	14JUL88	26JUL88	31JUL88	14
323H186A75	5	5	0	07	FRAMES & FINISHES OF YARD HAND/MANHOLE	13JUL88	18JUL88	30JUL88	3AUG88	14
323H187A75	5	5	0	08	FRAMES & FINISHES OF YARD HAND/MANHOLE	17JUL88	21JUL88	2AUG88	8AUG88	14
214H030A75	5	5	0	09	FRAMES & FINISHES OF YARD HAND/MANHOLE	20JUL88	25JUL88	7AUG88	11AUG88	14
214H029A75	5	5	0	10	FRAMES & FINISHES OF YARD HAND/MANHOLE	24JUL88	28JUL88	10AUG88	15AUG88	14
214H028A75	5	5	0	11	FRAMES & FINISHES OF YARD HAND/MANHOLE	27JUL88	1AUG88	14AUG88	18AUG88	14
214H031A75	5	5	0	12	FRAMES & FINISHES OF YARD HAND/MANHOLE	31JUL88	6AUG88	17AUG88	22AUG88	14
216H020A75	5	5	0	13	FRAMES & FINISHES OF YARD HAND/MANHOLE	3AUG88	9AUG88	21AUG88	27AUG88	14
216H019A75	5	5	0	14	FRAMES & FINISHES OF YARD HAND/MANHOLE	8AUG88	13AUG88	24AUG88	30AUG88	14
216H018A75	5	5	0	15	FRAMES & FINISHES OF YARD HAND/MANHOLE	11AUG88	16AUG88	29AUG88	3SEP88	14
218H015A75	5	5	0	16	FRAMES & FINISHES OF YARD HAND/MANHOLE	15AUG88	20AUG88	1SEP88	6SEP88	14
218H014A75	5	5	0	17	FRAMES & FINISHES OF YARD HAND/MANHOLE	18AUG88	23AUG88	5SEP88	10SEP88	14
218H013A75	5	5	0	18	FRAMES & FINISHES OF YARD HAND/MANHOLE	22AUG88	28AUG88	8SEP88	13SEP88	14
322H188A75	5	5	0	19	FRAMES & FINISHES OF YARD HAND/MANHOLE	27AUG88	31AUG88	12SEP88	17SEP88	14
322H189A75	5	5	0	20	FRAMES & FINISHES OF YARD HAND/MANHOLE	30AUG88	4SEP88	15SEP88	20SEP88	14
322H190A75	5	5	0	21	FRAMES & FINISHES OF YARD HAND/MANHOLE	1SEP88	7SEP88	19SEP88	24SEP88	14
216H021A75	5	5	0	22	FRAMES & FINISHES OF YARD HAND/MANHOLE	6SEP88	11SEP88	22SEP88	27SEP88	14
219H010A75	5	5	0	23	FRAMES & FINISHES OF YARD HAND/MANHOLE	10SEP88	14SEP88	26SEP88	1OCT88	14
220H007A75	5	5	0	24	FRAMES & FINISHES OF YARD HAND/MANHOLE	13SEP88	18SEP88	29SEP88	4OCT88	14
213H035A75	5	5	0	25	FRAMES & FINISHES OF YARD HAND/MANHOLE	17SEP88	21SEP88	3OCT88	8OCT88	14
213H036A75	5	5	0	26	FRAMES & FINISHES OF YARD HAND/MANHOLE	20SEP88	25SEP88	6OCT88	11OCT88	14
213H037A75	5	5	0	27	FRAMES & FINISHES OF YARD HAND/MANHOLE	24SEP88	28SEP88	10OCT88	15OCT88	14
213H032A75	5	5	0	28	FRAMES & FINISHES OF YARD HAND/MANHOLE	27SEP88	3OCT88	13OCT88	18OCT88	14
213H033A75	5	5	0	29	FRAMES & FINISHES OF YARD HAND/MANHOLE	1OCT88	5OCT88	17OCT88	22OCT88	14
213H034A75	5	5	0	30	FRAMES & FINISHES OF YARD HAND/MANHOLE	4OCT88	9OCT88	20OCT88	25OCT88	14
219H011A75	5	5	0	31	FRAMES & FINISHES OF YARD HAND/MANHOLE	9OCT88	13OCT88	24OCT88	29OCT88	13
219H012A75	5	5	0	32	FRAMES & FINISHES OF YARD HAND/MANHOLE	11OCT88	16OCT88	27OCT88	1NOV88	14
217H017A75	5	5	0	33	FRAMES & FINISHES OF YARD HAND/MANHOLE	17OCT88	22OCT88	31OCT88	5NOV88	12
217H016A75	5	5	0	34	FRAMES & FINISHES OF YARD HAND/MANHOLE	19OCT88	24OCT88	3NOV88	8NOV88	13
221H003A75	5	5	0	35	FRAMES & FINISHES OF YARD HAND/MANHOLE	25OCT88	30OCT88	7NOV88	12NOV88	11
221H002A75	5	5	0	36	FRAMES & FINISHES OF YARD HAND/MANHOLE	27OCT88	1NOV88	10NOV88	15NOV88	12
221H001A75	5	5	0	37	FRAMES & FINISHES OF YARD HAND/MANHOLE	2NOV88	7NOV88	14NOV88	19NOV88	10
220H009A75	5	5	0	38	FRAMES & FINISHES OF YARD HAND/MANHOLE	5NOV88	9NOV88	17NOV88	22NOV88	11
220H008A75	5	5	0	39	FRAMES & FINISHES OF YARD HAND/MANHOLE	10NOV88	15NOV88	21NOV88	26NOV88	9
220H006A75	5	5	0	40	FRAMES & FINISHES OF YARD HAND/MANHOLE	13NOV88	17NOV88	24NOV88	29NOV88	10
220H005A75	5	5	0	41	FRAMES & FINISHES OF YARD HAND/MANHOLE	19NOV88	23NOV88	28NOV88	3DEC88	8
220H004A75	5	5	0	42	FRAMES & FINISHES OF YARD HAND/MANHOLE	21NOV88	26NOV88	1DEC88	6DEC88	9
320H176A75	5	5	0	43	FRAMES & FINISHES OF YARD HAND/MANHOLE	27NOV88	1DEC88	5DEC88	10DEC88	7
320H177A75	5	5	0	44	FRAMES & FINISHES OF YARD HAND/MANHOLE	29NOV88	4DEC88	8DEC88	13DEC88	8
320H178A75	5	5	0	45	FRAMES & FINISHES OF YARD HAND/MANHOLE	5DEC88	10DEC88	12DEC88	17DEC88	6
215H027A75	5	5	0	46	FRAMES & FINISHES OF YARD HAND/MANHOLE	7DEC88	12DEC88	15DEC88	20DEC88	7
215H026A75	5	5	0	47	FRAMES & FINISHES OF YARD HAND/MANHOLE	13DEC88	18DEC88	19DEC88	24DEC88	5
215H025A75	5	5	0	48	FRAMES & FINISHES OF YARD HAND/MANHOLE	15DEC88	20DEC88	21DEC88	27DEC88	6
215H024A75	5	5	0	49	FRAMES & FINISHES OF YARD HAND/MANHOLE	21DEC88	26DEC88	26DEC88	31DEC88	4
215H023A75	5	5	0	50	FRAMES & FINISHES OF YARD HAND/MANHOLE	24DEC88	29DEC88	29DEC88	4JAN89	3
215H022A75	5	5	0	51	FRAMES & FINISHES OF YARD HAND/MANHOLE	29DEC88	4JAN89	3JAN89	8JAN89	3
211H043A76	2	2	0	01	PLUMBING NETWORKS TESTING	28JUN88	29JUN88	1OCT88	2OCT88	79
211H042A76	2	2	0	02	PLUMBING NETWORKS TESTING	30JUN88	3JUL88	3OCT88	4OCT88	79
321H174A76	2	2	0	03	PLUMBING NETWORKS TESTING	5JUL88	6JUL88	5OCT88	6OCT88	77
321H175A76	2	2	0	04	PLUMBING NETWORKS TESTING	9JUL88	10JUL88	8OCT88	9OCT88	76

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.				PRIMAVERA PROJECT PLANNER				Correcting Out-of-Logic Progress NSq			
REPORT DATE 21SEP95 RUN NO. 205				SEVEN SEAS, CONSTRUCTION OF 51 HOUSES				START DATE 1APR87 FIN DATE 30MAR95*			
18:31											
Rev'd & Decal Schl by Typical Activity & ES								DATA DATE 1FEB88 PAGE NO. 35			
ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT	
211H044A76	2	2	0	05	PLUMBING NETWORKS TESTING	12JUL88	13JUL88	10OCT88	11OCT88	75	
223H185A76	2	2	0	06	PLUMBING NETWORKS TESTING	16JUL88	17JUL88	12OCT88	13OCT88	74	
223H186A76	2	2	0	07	PLUMBING NETWORKS TESTING	19JUL88	20JUL88	15OCT88	16OCT88	73	
223H187A76	2	2	0	08	PLUMBING NETWORKS TESTING	23JUL88	24JUL88	17OCT88	18OCT88	72	
214H030A76	2	2	0	09	PLUMBING NETWORKS TESTING	26JUL88	27JUL88	19OCT88	20OCT88	71	
214H029A76	2	2	0	10	PLUMBING NETWORKS TESTING	30JUL88	31JUL88	22OCT88	23OCT88	70	
214H028A76	2	2	0	11	PLUMBING NETWORKS TESTING	2AUG88	3AUG88	24OCT88	25OCT88	69	
214H031A76	2	2	0	12	PLUMBING NETWORKS TESTING	7AUG88	8AUG88	26OCT88	27OCT88	68	
216H020A76	2	2	0	13	PLUMBING NETWORKS TESTING	10AUG88	11AUG88	29OCT88	30OCT88	67	
216H019A76	2	2	0	14	PLUMBING NETWORKS TESTING	14AUG88	15AUG88	31OCT88	1NOV88	66	
216H018A76	2	2	0	15	PLUMBING NETWORKS TESTING	17AUG88	18AUG88	2NOV88	3NOV88	65	
218H015A76	2	2	0	16	PLUMBING NETWORKS TESTING	21AUG88	22AUG88	5NOV88	6NOV88	64	
218H014A76	2	2	0	17	PLUMBING NETWORKS TESTING	24AUG88	27AUG88	7NOV88	8NOV88	63	
218H013A76	2	2	0	18	PLUMBING NETWORKS TESTING	29AUG88	30AUG88	9NOV88	10NOV88	62	
222H188A76	2	2	0	19	PLUMBING NETWORKS TESTING	1SEP88	2SEP88	12NOV88	13NOV88	61	
222H189A76	2	2	0	20	PLUMBING NETWORKS TESTING	5SEP88	6SEP88	14NOV88	15NOV88	60	
222H190A76	2	2	0	21	PLUMBING NETWORKS TESTING	8SEP88	10SEP88	16NOV88	17NOV88	59	
216H021A76	2	2	0	22	PLUMBING NETWORKS TESTING	12SEP88	13SEP88	19NOV88	20NOV88	58	
219H010A76	2	2	0	23	PLUMBING NETWORKS TESTING	15SEP88	17SEP88	21NOV88	22NOV88	57	
220H007A76	2	2	0	24	PLUMBING NETWORKS TESTING	19SEP88	20SEP88	23NOV88	24NOV88	56	
213H035A76	2	2	0	25	PLUMBING NETWORKS TESTING	22SEP88	24SEP88	26NOV88	27NOV88	55	
213H036A76	2	2	0	26	PLUMBING NETWORKS TESTING	26SEP88	27SEP88	28NOV88	29NOV88	54	
213H037A76	2	2	0	27	PLUMBING NETWORKS TESTING	29SEP88	1OCT88	30NOV88	1DEC88	53	
213H032A76	2	2	0	28	PLUMBING NETWORKS TESTING	3OCT88	4OCT88	3DEC88	4DEC88	52	
213H033A76	2	2	0	29	PLUMBING NETWORKS TESTING	6OCT88	8OCT88	5DEC88	6DEC88	51	
213H034A76	2	2	0	30	PLUMBING NETWORKS TESTING	10OCT88	11OCT88	7DEC88	8DEC88	50	
219H011A76	2	2	0	31	PLUMBING NETWORKS TESTING	15OCT88	16OCT88	10DEC88	11DEC88	49	
219H012A76	2	2	0	32	PLUMBING NETWORKS TESTING	17OCT88	18OCT88	12DEC88	13DEC88	48	
217H017A76	2	2	0	33	PLUMBING NETWORKS TESTING	23OCT88	24OCT88	14DEC88	15DEC88	45	
217H016A76	2	2	0	34	PLUMBING NETWORKS TESTING	25OCT88	26OCT88	17DEC88	18DEC88	45	
221H003A76	2	2	0	35	PLUMBING NETWORKS TESTING	31OCT88	1NOV88	19DEC88	20DEC88	42	
221H002A76	2	2	0	36	PLUMBING NETWORKS TESTING	3NOV88	5NOV88	21DEC88	22DEC88	41	
221H001A76	2	2	0	37	PLUMBING NETWORKS TESTING	8NOV88	9NOV88	24DEC88	25DEC88	39	
220H009A76	2	2	0	38	PLUMBING NETWORKS TESTING	13NOV88	14NOV88	26DEC88	27DEC88	37	
220H008A76	2	2	0	39	PLUMBING NETWORKS TESTING	17NOV88	19NOV88	28DEC88	29DEC88	35	
220H006A76	2	2	0	40	PLUMBING NETWORKS TESTING	22NOV88	23NOV88	31DEC88	2JAN89	33	
220H005A76	2	2	0	41	PLUMBING NETWORKS TESTING	27NOV88	28NOV88	3JAN89	4JAN89	31	
220H004A76	2	2	0	42	PLUMBING NETWORKS TESTING	1DEC88	3DEC88	5JAN89	7JAN89	29	
220H176A76	2	2	0	43	PLUMBING NETWORKS TESTING	6DEC88	7DEC88	8JAN89	9JAN89	27	
220H177A76	2	2	0	44	PLUMBING NETWORKS TESTING	11DEC88	12DEC88	10JAN89	11JAN89	25	
220H178A76	2	2	0	45	PLUMBING NETWORKS TESTING	15DEC88	17DEC88	12JAN89	14JAN89	23	
215H027A76	2	2	0	46	PLUMBING NETWORKS TESTING	20DEC88	21DEC88	15JAN89	16JAN89	21	
215H026A76	2	2	0	47	PLUMBING NETWORKS TESTING	25DEC88	26DEC88	17JAN89	18JAN89	19	
215H025A76	2	2	0	48	PLUMBING NETWORKS TESTING	29DEC88	31DEC88	19JAN89	21JAN89	17	
215H024A76	2	2	0	49	PLUMBING NETWORKS TESTING	4JAN89	5JAN89	22JAN89	23JAN89	15	
215H023A76	2	2	0	50	PLUMBING NETWORKS TESTING	9JAN89	10JAN89	24JAN89	25JAN89	13	
215H022A76	2	2	0	51	PLUMBING NETWORKS TESTING	14JAN89	15JAN89	26JAN89	28JAN89	11	
211H043A77	5	5	0	01	ALUMINUM EXTERNAL FALSE CEILING	4JUL88	9JUL88	17JUL88	21JUL88	11	
211H042A77	5	5	0	02	ALUMINUM EXTERNAL FALSE CEILING	9JUL88	9JUL88	20JUL88	25JUL88	14	
221H174A77	5	5	0	03	ALUMINUM EXTERNAL FALSE CEILING	11JUL88	16JUL88	24JUL88	28JUL88	11	
221H175A77	5	5	0	04	ALUMINUM EXTERNAL FALSE CEILING	14JUL88	19JUL88	27JUL88	1AUG88	11	
211H044A77	5	5	0	05	ALUMINUM EXTERNAL FALSE CEILING	18JUL88	23JUL88	31JUL88	6AUG88	11	
223H185A77	5	5	0	06	ALUMINUM EXTERNAL FALSE CEILING	21JUL88	26JUL88	3AUG88	9AUG88	11	
223H186A77	5	5	0	07	ALUMINUM EXTERNAL FALSE CEILING	25JUL88	30JUL88	8AUG88	13AUG88	11	
223H187A77	5	5	0	08	ALUMINUM EXTERNAL FALSE CEILING	28JUL88	2AUG88	11AUG88	16AUG88	11	
214H030A77	5	5	0	09	ALUMINUM EXTERNAL FALSE CEILING	1AUG88	7AUG88	15AUG88	20AUG88	11	
214H029A77	5	5	0	10	ALUMINUM EXTERNAL FALSE CEILING	6AUG88	10AUG88	18AUG88	23AUG88	11	
214H028A77	5	5	0	11	ALUMINUM EXTERNAL FALSE CEILING	9AUG88	14AUG88	22AUG88	28AUG88	11	
214H031A77	5	5	0	12	ALUMINUM EXTERNAL FALSE CEILING	13AUG88	17AUG88	27AUG88	31AUG88	11	
216H020A77	5	5	0	13	ALUMINUM EXTERNAL FALSE CEILING	16AUG88	21AUG88	30AUG88	4SEP88	11	
216H019A77	5	5	0	14	ALUMINUM EXTERNAL FALSE CEILING	20AUG88	24AUG88	3SEP88	7SEP88	11	
216H018A77	5	5	0	15	ALUMINUM EXTERNAL FALSE CEILING	23AUG88	29AUG88	6SEP88	11SEP88	11	
218H015A77	5	5	0	16	ALUMINUM EXTERNAL FALSE CEILING	28AUG88	1SEP88	10SEP88	14SEP88	11	
218H014A77	5	5	0	17	ALUMINUM EXTERNAL FALSE CEILING	31AUG88	5SEP88	13SEP88	18SEP88	11	
218H013A77	5	5	0	18	ALUMINUM EXTERNAL FALSE CEILING	4SEP88	8SEP88	17SEP88	21SEP88	11	
222H188A77	5	5	0	19	ALUMINUM EXTERNAL FALSE CEILING	7SEP88	12SEP88	20SEP88	25SEP88	11	
222H189A77	5	5	0	20	ALUMINUM EXTERNAL FALSE CEILING	11SEP88	15SEP88	24SEP88	28SEP88	11	
222H190A77	5	5	0	21	ALUMINUM EXTERNAL FALSE CEILING	14SEP88	19SEP88	27SEP88	2OCT88	11	
216H021A77	5	5	0	22	ALUMINUM EXTERNAL FALSE CEILING	18SEP88	22SEP88	1OCT88	5OCT88	11	
219H010A77	5	5	0	23	ALUMINUM EXTERNAL FALSE CEILING	21SEP88	26SEP88	4OCT88	9OCT88	11	
220H007A77	5	5	0	24	ALUMINUM EXTERNAL FALSE CEILING	25SEP88	29SEP88	8OCT88	12OCT88	11	
213H035A77	5	5	0	25	ALUMINUM EXTERNAL FALSE CEILING	28SEP88	3OCT88	11OCT88	16OCT88	11	
213H036A77	5	5	0	26	ALUMINUM EXTERNAL FALSE CEILING	2OCT88	6OCT88	15OCT88	19OCT88	11	
213H037A77	5	5	0	27	ALUMINUM EXTERNAL FALSE CEILING	5OCT88	10OCT88	18OCT88	23OCT88	11	
213H032A77	5	5	0	28	ALUMINUM EXTERNAL FALSE CEILING	9OCT88	13OCT88	22OCT88	26OCT88	11	
213H033A77	5	5	0	29	ALUMINUM EXTERNAL FALSE CEILING	12OCT88	17OCT88	25OCT88	30OCT88	11	
213H034A77	5	5	0	30	ALUMINUM EXTERNAL FALSE CEILING	16OCT88	20OCT88	29OCT88	2NOV88	11	
219H011A77	5	5	0	31	ALUMINUM EXTERNAL FALSE CEILING	20OCT88	25OCT88	1NOV88	6NOV88	10	
219H012A77	5	5	0	32	ALUMINUM EXTERNAL FALSE CEILING	23OCT88	27OCT88	5NOV88	9NOV88	11	
217H017A77	5	5	0	33	ALUMINUM EXTERNAL FALSE CEILING	29OCT88	2NOV88	8NOV88	13NOV88	9	
217H016A77	5	5	0	34	ALUMINUM EXTERNAL FALSE CEILING	31OCT88	5NOV88	12NOV88	16NOV88	10	
221H003A77	5	5	0	35	ALUMINUM EXTERNAL FALSE CEILING	6NOV88	10NOV88	15NOV88	20NOV88	8	
221H002A77	5	5	0	36	ALUMINUM EXTERNAL FALSE CEILING	9NOV88	13NOV88	18NOV88	23NOV88	7	
221H001A77	5	5	0	37	ALUMINUM EXTERNAL FALSE CEILING	14NOV88	19NOV88	22NOV88	27NOV88	9	
220H009A77	5	5	0	38	ALUMINUM EXTERNAL FALSE CEILING	16NOV88	21NOV88	26NOV88	30NOV88	8	
220H008A77	5	5	0	39	ALUMINUM EXTERNAL FALSE CEILING	22NOV88	27NOV88	29NOV88	4DEC88	6	
220H006A77	5	5	0	40	ALUMINUM EXTERNAL FALSE CEILING	24NOV88	29NOV88	3DEC88	7DEC88	7	
220H005A77	5	5	0	41	ALUMINUM EXTERNAL FALSE CEILING	30NOV88	5DEC88	6DEC88	11DEC88	5	
220H004A77	5	5	0	42	ALUMINUM EXTERNAL FALSE CEILING	3DEC88	7DEC88	10DEC88	14DEC88	6	
220H176A77	5	5	0	43	ALUMINUM EXTERNAL FALSE CEILING	8DEC88	13DEC88	13DEC88	18DEC88	4	
220H177A77	5	5	0	44	ALUMINUM EXTERNAL FALSE CEILING	11DEC88	15DEC88	17DEC88	21DEC88	5	
220H178A77	5	5	0	45	ALUMINUM EXTERNAL FALSE CEILING	17DEC88	21DEC88	20DEC88	25DEC88	3	
215H027A77	5	5	0	46	ALUMINUM EXTERNAL FALSE CEILING	19DEC88	24DEC88	24DEC88	28DEC88	4	
215H026A77	5	5	0	47	ALUMINUM EXTERNAL FALSE CEILING	25DEC88	29DEC88	27DEC88	2JAN89	2	
215H025A77	5	5	0	48	ALUMINUM EXTERNAL FALSE CEILING	27DEC88	2JAN89	31DEC88	5JAN89	3	
215H024A77	5	5	0	49	ALUMINUM EXTERNAL FALSE CEILING	3JAN89	8JAN89	4JAN89	9JAN89	1	

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

18:31

Rev'd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 36

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
215H023A77	5	5	0	50	ALUMINUM EXTERNAL FALSE CEILING	5JAN89	10JAN89	8JAN89	12JAN89	2
215H022A77	5	5	0	51	ALUMINUM EXTERNAL FALSE CEILING	11JAN89	16JAN89	11JAN89	16JAN89	0
211H043A78	3	3	0	01	AGRICULTURAL SOIL	4JUL88	6JUL88	28JUL88	31JUL88	21
211H042A78	3	3	0	02	AGRICULTURAL SOIL	7JUL88	10JUL88	1AUG88	3AUG88	21
212H174A78	3	3	0	03	AGRICULTURAL SOIL	11JUL88	13JUL88	6AUG88	8AUG88	21
321H175A78	3	3	0	04	AGRICULTURAL SOIL	14JUL88	17JUL88	9AUG88	11AUG88	21
211H044A78	3	3	0	05	AGRICULTURAL SOIL	18JUL88	20JUL88	13AUG88	15AUG88	21
323H185A78	3	3	0	06	AGRICULTURAL SOIL	21JUL88	24JUL88	16AUG88	18AUG88	21
323H186A78	3	3	0	07	AGRICULTURAL SOIL	25JUL88	27JUL88	20AUG88	22AUG88	21
323H187A78	3	3	0	08	AGRICULTURAL SOIL	28JUL88	31JUL88	23AUG88	27AUG88	21
214H030A78	3	3	0	09	AGRICULTURAL SOIL	1AUG88	3AUG88	28AUG88	30AUG88	21
214H029A78	3	3	0	10	AGRICULTURAL SOIL	6AUG88	8AUG88	31AUG88	3SEP88	21
214H028A78	3	3	0	11	AGRICULTURAL SOIL	9AUG88	11AUG88	4SEP88	6SEP88	21
214H031A78	3	3	0	12	AGRICULTURAL SOIL	13AUG88	15AUG88	7SEP88	10SEP88	21
216H020A78	3	3	0	13	AGRICULTURAL SOIL	16AUG88	18AUG88	11SEP88	13SEP88	21
216H019A78	3	3	0	14	AGRICULTURAL SOIL	20AUG88	22AUG88	14SEP88	17SEP88	21
216H018A78	3	3	0	15	AGRICULTURAL SOIL	23AUG88	27AUG88	18SEP88	20SEP88	21
218H015A78	3	3	0	16	AGRICULTURAL SOIL	28AUG88	30AUG88	21SEP88	24SEP88	21
218H014A78	3	3	0	17	AGRICULTURAL SOIL	31AUG88	3SEP88	25SEP88	27SEP88	21
218H013A78	3	3	0	18	AGRICULTURAL SOIL	4SEP88	6SEP88	28SEP88	1OCT88	21
322H188A78	3	3	0	19	AGRICULTURAL SOIL	7SEP88	10SEP88	2OCT88	4OCT88	21
322H189A78	3	3	0	20	AGRICULTURAL SOIL	11SEP88	13SEP88	5OCT88	8OCT88	21
322H190A78	3	3	0	21	AGRICULTURAL SOIL	14SEP88	17SEP88	9OCT88	11OCT88	21
216H021A78	3	3	0	22	AGRICULTURAL SOIL	18SEP88	20SEP88	12OCT88	15OCT88	21
219H010A78	3	3	0	23	AGRICULTURAL SOIL	21SEP88	24SEP88	16OCT88	18OCT88	21
220H007A78	3	3	0	24	AGRICULTURAL SOIL	25SEP88	27SEP88	19OCT88	22OCT88	21
213H035A78	3	3	0	25	AGRICULTURAL SOIL	28SEP88	1OCT88	23OCT88	25OCT88	21
213H036A78	3	3	0	26	AGRICULTURAL SOIL	2OCT88	4OCT88	26OCT88	29OCT88	21
213H037A78	3	3	0	27	AGRICULTURAL SOIL	5OCT88	8OCT88	3OCT88	1NOV88	21
213H032A78	3	3	0	28	AGRICULTURAL SOIL	9OCT88	11OCT88	6NOV88	8NOV88	21
213H033A78	3	3	0	29	AGRICULTURAL SOIL	12OCT88	15OCT88	9NOV88	11NOV88	21
213H034A78	3	3	0	30	AGRICULTURAL SOIL	16OCT88	18OCT88	9NOV88	12NOV88	21
219H012A78	3	3	0	31	AGRICULTURAL SOIL	20OCT88	23OCT88	13NOV88	15NOV88	20
219H012A78	3	3	0	32	AGRICULTURAL SOIL	24OCT88	26OCT88	16NOV88	19NOV88	20
217H017A78	3	3	0	33	AGRICULTURAL SOIL	29OCT88	31OCT88	20NOV88	22NOV88	19
217H016A78	3	3	0	34	AGRICULTURAL SOIL	1NOV88	3NOV88	23NOV88	26NOV88	19
221H003A78	3	3	0	35	AGRICULTURAL SOIL	6NOV88	8NOV88	27NOV88	29NOV88	18
221H002A78	3	3	0	36	AGRICULTURAL SOIL	9NOV88	12NOV88	30NOV88	3DEC88	18
221H001A78	3	3	0	37	AGRICULTURAL SOIL	14NOV88	16NOV88	4DEC88	6DEC88	17
220H009A78	3	3	0	38	AGRICULTURAL SOIL	17NOV88	20NOV88	7DEC88	10DEC88	17
220H008A78	3	3	0	39	AGRICULTURAL SOIL	22NOV88	24NOV88	11DEC88	13DEC88	16
220H006A78	3	3	0	40	AGRICULTURAL SOIL	26NOV88	28NOV88	14DEC88	17DEC88	16
220H005A78	3	3	0	41	AGRICULTURAL SOIL	30NOV88	3DEC88	18DEC88	20DEC88	15
220H004A78	3	3	0	42	AGRICULTURAL SOIL	4DEC88	6DEC88	21DEC88	24DEC88	15
320H176A78	3	3	0	43	AGRICULTURAL SOIL	8DEC88	11DEC88	25DEC88	27DEC88	14
320H177A78	3	3	0	44	AGRICULTURAL SOIL	12DEC88	14DEC88	28DEC88	31DEC88	14
320H178A78	3	3	0	45	AGRICULTURAL SOIL	17DEC88	19DEC88	2JAN89	4JAN89	13
215H027A78	3	3	0	46	AGRICULTURAL SOIL	20DEC88	22DEC88	5JAN89	8JAN89	13
215H026A78	3	3	0	47	AGRICULTURAL SOIL	25DEC88	27DEC88	9JAN89	11JAN89	12
215H025A78	3	3	0	48	AGRICULTURAL SOIL	28DEC88	31DEC88	12JAN89	15JAN89	12
215H024A78	3	3	0	49	AGRICULTURAL SOIL	3JAN89	5JAN89	16JAN89	18JAN89	11
215H023A78	3	3	0	50	AGRICULTURAL SOIL	7JAN89	9JAN89	19JAN89	22JAN89	11
215H022A78	3	3	0	51	AGRICULTURAL SOIL	11JAN89	14JAN89	23JAN89	25JAN89	10
211H043A79	4	4	0	01	STEEL GATES INSTALLATION & PAINT UNDERCOATS	4JUL88	7JUL88	19JUL88	23JUL88	13
211H042A79	4	4	0	02	STEEL GATES INSTALLATION & PAINT UNDERCOATS	4JUL88	7JUL88	23JUL88	26JUL88	16
321H174A79	4	4	0	03	STEEL GATES INSTALLATION & PAINT UNDERCOATS	11JUL88	14JUL88	26JUL88	30JUL88	13
321H175A79	4	4	0	04	STEEL GATES INSTALLATION & PAINT UNDERCOATS	14JUL88	18JUL88	30JUL88	2AUG88	13
211H044A79	4	4	0	05	STEEL GATES INSTALLATION & PAINT UNDERCOATS	18JUL88	21JUL88	2AUG88	7AUG88	13
323H185A79	4	4	0	06	STEEL GATES INSTALLATION & PAINT UNDERCOATS	21JUL88	25JUL88	7AUG88	10AUG88	13
323H186A79	4	4	0	07	STEEL GATES INSTALLATION & PAINT UNDERCOATS	25JUL88	28JUL88	10AUG88	14AUG88	13
323H187A79	4	4	0	08	STEEL GATES INSTALLATION & PAINT UNDERCOATS	28JUL88	1AUG88	14AUG88	17AUG88	13
214H030A79	4	4	0	09	STEEL GATES INSTALLATION & PAINT UNDERCOATS	1AUG88	6AUG88	17AUG88	21AUG88	13
214H029A79	4	4	0	10	STEEL GATES INSTALLATION & PAINT UNDERCOATS	6AUG88	9AUG88	21AUG88	24AUG88	13
214H028A79	4	4	0	11	STEEL GATES INSTALLATION & PAINT UNDERCOATS	9AUG88	13AUG88	24AUG88	29AUG88	13
214H031A79	4	4	0	12	STEEL GATES INSTALLATION & PAINT UNDERCOATS	13AUG88	16AUG88	29AUG88	1SEP88	13
216H020A79	4	4	0	13	STEEL GATES INSTALLATION & PAINT UNDERCOATS	16AUG88	20AUG88	1SEP88	5SEP88	13
216H019A79	4	4	0	14	STEEL GATES INSTALLATION & PAINT UNDERCOATS	20AUG88	23AUG88	5SEP88	8SEP88	13
216H018A79	4	4	0	15	STEEL GATES INSTALLATION & PAINT UNDERCOATS	23AUG88	28AUG88	8SEP88	12SEP88	13
218H015A79	4	4	0	16	STEEL GATES INSTALLATION & PAINT UNDERCOATS	28AUG88	31AUG88	12SEP88	15SEP88	13
218H014A79	4	4	0	17	STEEL GATES INSTALLATION & PAINT UNDERCOATS	31AUG88	4SEP88	15SEP88	19SEP88	13
218H013A79	4	4	0	18	STEEL GATES INSTALLATION & PAINT UNDERCOATS	4SEP88	7SEP88	19SEP88	22SEP88	13
322H188A79	4	4	0	19	STEEL GATES INSTALLATION & PAINT UNDERCOATS	7SEP88	11SEP88	22SEP88	26SEP88	13
322H189A79	4	4	0	20	STEEL GATES INSTALLATION & PAINT UNDERCOATS	11SEP88	14SEP88	26SEP88	29SEP88	13
322H190A79	4	4	0	21	STEEL GATES INSTALLATION & PAINT UNDERCOATS	14SEP88	18SEP88	29SEP88	3OCT88	13
216H021A79	4	4	0	22	STEEL GATES INSTALLATION & PAINT UNDERCOATS	18SEP88	21SEP88	3OCT88	6OCT88	13
219H010A79	4	4	0	23	STEEL GATES INSTALLATION & PAINT UNDERCOATS	21SEP88	25SEP88	6OCT88	10OCT88	13
220H007A79	4	4	0	24	STEEL GATES INSTALLATION & PAINT UNDERCOATS	25SEP88	28SEP88	10OCT88	13OCT88	13
213H035A79	4	4	0	25	STEEL GATES INSTALLATION & PAINT UNDERCOATS	28SEP88	2OCT88	13OCT88	17OCT88	13
213H036A79	4	4	0	26	STEEL GATES INSTALLATION & PAINT UNDERCOATS	2OCT88	5OCT88	17OCT88	20OCT88	13
213H037A79	4	4	0	27	STEEL GATES INSTALLATION & PAINT UNDERCOATS	5OCT88	9OCT88	20OCT88	24OCT88	13
213H032A79	4	4	0	28	STEEL GATES INSTALLATION & PAINT UNDERCOATS	9OCT88	12OCT88	24OCT88	27OCT88	13
213H033A79	4	4	0	29	STEEL GATES INSTALLATION & PAINT UNDERCOATS	12OCT88	16OCT88	27OCT88	31OCT88	13
213H034A79	4	4	0	30	STEEL GATES INSTALLATION & PAINT UNDERCOATS	16OCT88	19OCT88	31OCT88	3NOV88	13
219H012A79	4	4	0	31	STEEL GATES INSTALLATION & PAINT UNDERCOATS	20OCT88	24OCT88	3NOV88	7NOV88	12
219H012A79	4	4	0	32	STEEL GATES INSTALLATION & PAINT UNDERCOATS	23OCT88	26OCT88	7NOV88	10NOV88	13
217H017A79	4	4	0	33	STEEL GATES INSTALLATION & PAINT UNDERCOATS	29OCT88	1NOV88	10NOV88	14NOV88	11
217H016A79	4	4	0	34	STEEL GATES INSTALLATION & PAINT UNDERCOATS	31OCT88	3NOV88	14NOV88	17NOV88	12
221H003A79	4	4	0	35	STEEL GATES INSTALLATION & PAINT UNDERCOATS	6NOV88	9NOV88	17NOV88	21NOV88	10
221H002A79	4	4	0	36	STEEL GATES INSTALLATION & PAINT UNDERCOATS	9NOV88	12NOV88	21NOV88	24NOV88	11
221H001A79	4	4	0	37	STEEL GATES INSTALLATION & PAINT UNDERCOATS	14NOV88	17NOV88	24NOV88	28NOV88	9
220H009A79	4	4	0	38	STEEL GATES INSTALLATION & PAINT UNDERCOATS	16NOV88	20NOV88	28NOV88	1DEC88	10
220H008A79	4	4	0	39	STEEL GATES INSTALLATION & PAINT UNDERCOATS	22NOV88	26NOV88	1DEC88	5DEC88	8
220H006A79	4	4	0	40	STEEL GATES INSTALLATION & PAINT UNDERCOATS	24NOV88	28NOV88	5DEC88	8DEC88	9
220H005A79	4	4	0	41	STEEL GATES INSTALLATION & PAINT UNDERCOATS	30NOV88	4DEC88	8DEC88	12DEC88	7
220H004A79	4	4	0	42	STEEL GATES INSTALLATION & PAINT UNDERCOATS	3DEC88	6DEC88	12DEC88	15DEC88	8
320H176A79	4	4	0	43	STEEL GATES INSTALLATION & PAINT UNDERCOATS	8DEC88	12DEC88	15DEC88	19DEC88	6

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 11SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 10MAR99*

18:31

Rev'd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 37

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
320H177A79	4	4	0	44	STEEL GATES INSTALLATION & PAINT UNDERCOATS	11DEC88	14DEC88	19DEC88	22DEC88	7
320H178A79	4	4	0	45	STEEL GATES INSTALLATION & PAINT UNDERCOATS	17DEC88	20DEC88	22DEC88	24DEC88	5
215H027A79	4	4	0	46	STEEL GATES INSTALLATION & PAINT UNDERCOATS	19DEC88	22DEC88	26DEC88	29DEC88	6
215H026A79	4	4	0	47	STEEL GATES INSTALLATION & PAINT UNDERCOATS	25DEC88	28DEC88	29DEC88	31JAN89	4
215H025A79	4	4	0	48	STEEL GATES INSTALLATION & PAINT UNDERCOATS	27DEC88	31DEC88	31JAN89	7JAN89	5
215H024A79	4	4	0	49	STEEL GATES INSTALLATION & PAINT UNDERCOATS	31JAN89	7JAN89	7JAN89	10JAN89	3
215H023A79	4	4	0	50	STEEL GATES INSTALLATION & PAINT UNDERCOATS	5JAN89	9JAN89	10JAN89	14JAN89	4
215H022A79	4	4	0	51	STEEL GATES INSTALLATION & PAINT UNDERCOATS	11JAN89	15JAN89	14JAN89	17JAN89	2
211H043A80	1	1	0	01	EXTERNAL ELECTRICAL FITTINGS	10JUL88	10JUL88	23JUL88	23JUL88	11
211H042A80	1	1	0	02	EXTERNAL ELECTRICAL FITTINGS	11JUL88	11JUL88	26JUL88	26JUL88	13
321H174A80	1	1	0	03	EXTERNAL ELECTRICAL FITTINGS	17JUL88	17JUL88	30JUL88	30JUL88	11
321H175A80	1	1	0	04	EXTERNAL ELECTRICAL FITTINGS	20JUL88	20JUL88	2AUG88	2AUG88	11
211H044A80	1	1	0	05	EXTERNAL ELECTRICAL FITTINGS	24JUL88	24JUL88	7AUG88	7AUG88	11
323H185A80	1	1	0	06	EXTERNAL ELECTRICAL FITTINGS	27JUL88	27JUL88	10AUG88	10AUG88	11
323H186A80	1	1	0	07	EXTERNAL ELECTRICAL FITTINGS	31JUL88	31JUL88	14AUG88	14AUG88	11
323H187A80	1	1	0	08	EXTERNAL ELECTRICAL FITTINGS	3AUG88	3AUG88	17AUG88	17AUG88	11
214H030A80	1	1	0	09	EXTERNAL ELECTRICAL FITTINGS	8AUG88	8AUG88	21AUG88	21AUG88	11
214H029A80	1	1	0	10	EXTERNAL ELECTRICAL FITTINGS	11AUG88	11AUG88	24AUG88	24AUG88	11
214H028A80	1	1	0	11	EXTERNAL ELECTRICAL FITTINGS	15AUG88	15AUG88	29AUG88	29AUG88	11
214H031A80	1	1	0	12	EXTERNAL ELECTRICAL FITTINGS	18AUG88	18AUG88	1SEP88	1SEP88	11
216H020A80	1	1	0	13	EXTERNAL ELECTRICAL FITTINGS	22AUG88	22AUG88	5SEP88	5SEP88	11
216H019A80	1	1	0	14	EXTERNAL ELECTRICAL FITTINGS	27AUG88	27AUG88	8SEP88	8SEP88	11
216H018A80	1	1	0	15	EXTERNAL ELECTRICAL FITTINGS	30AUG88	30AUG88	12SEP88	12SEP88	11
218H015A80	1	1	0	16	EXTERNAL ELECTRICAL FITTINGS	3SEP88	3SEP88	15SEP88	15SEP88	11
218H014A80	1	1	0	17	EXTERNAL ELECTRICAL FITTINGS	6SEP88	6SEP88	19SEP88	19SEP88	11
218H013A80	1	1	0	18	EXTERNAL ELECTRICAL FITTINGS	10SEP88	10SEP88	22SEP88	22SEP88	11
322H188A80	1	1	0	19	EXTERNAL ELECTRICAL FITTINGS	13SEP88	13SEP88	26SEP88	26SEP88	11
322H189A80	1	1	0	20	EXTERNAL ELECTRICAL FITTINGS	17SEP88	17SEP88	29SEP88	29SEP88	11
322H190A80	1	1	0	21	EXTERNAL ELECTRICAL FITTINGS	20SEP88	20SEP88	3OCT88	3OCT88	11
216H021A80	1	1	0	22	EXTERNAL ELECTRICAL FITTINGS	24SEP88	24SEP88	6OCT88	6OCT88	11
219H010A80	1	1	0	23	EXTERNAL ELECTRICAL FITTINGS	27SEP88	27SEP88	10OCT88	10OCT88	11
220H007A80	1	1	0	24	EXTERNAL ELECTRICAL FITTINGS	1OCT88	1OCT88	13OCT88	13OCT88	11
213H035A80	1	1	0	25	EXTERNAL ELECTRICAL FITTINGS	4OCT88	4OCT88	17OCT88	17OCT88	11
213H036A80	1	1	0	26	EXTERNAL ELECTRICAL FITTINGS	8OCT88	8OCT88	20OCT88	20OCT88	11
213H037A80	1	1	0	27	EXTERNAL ELECTRICAL FITTINGS	11OCT88	11OCT88	24OCT88	24OCT88	11
213H032A80	1	1	0	28	EXTERNAL ELECTRICAL FITTINGS	15OCT88	15OCT88	27OCT88	27OCT88	11
213H033A80	1	1	0	29	EXTERNAL ELECTRICAL FITTINGS	18OCT88	18OCT88	31OCT88	31OCT88	11
213H034A80	1	1	0	30	EXTERNAL ELECTRICAL FITTINGS	22OCT88	22OCT88	3NOV88	3NOV88	11
219H011A80	1	1	0	31	EXTERNAL ELECTRICAL FITTINGS	26OCT88	26OCT88	7NOV88	7NOV88	10
219H012A80	1	1	0	32	EXTERNAL ELECTRICAL FITTINGS	29OCT88	29OCT88	10NOV88	10NOV88	11
217H017A80	1	1	0	33	EXTERNAL ELECTRICAL FITTINGS	3NOV88	3NOV88	14NOV88	14NOV88	9
217H016A80	1	1	0	34	EXTERNAL ELECTRICAL FITTINGS	6NOV88	6NOV88	17NOV88	17NOV88	10
211H003A80	1	1	0	35	EXTERNAL ELECTRICAL FITTINGS	12NOV88	12NOV88	11NOV88	21NOV88	8
221H002A80	1	1	0	36	EXTERNAL ELECTRICAL FITTINGS	14NOV88	14NOV88	24NOV88	24NOV88	9
221H001A80	1	1	0	37	EXTERNAL ELECTRICAL FITTINGS	20NOV88	20NOV88	28NOV88	28NOV88	7
220H009A80	1	1	0	38	EXTERNAL ELECTRICAL FITTINGS	22NOV88	22NOV88	1DEC88	1DEC88	8
220H008A80	1	1	0	39	EXTERNAL ELECTRICAL FITTINGS	28NOV88	28NOV88	5DEC88	5DEC88	6
220H006A80	1	1	0	40	EXTERNAL ELECTRICAL FITTINGS	30NOV88	30NOV88	8DEC88	8DEC88	7
220H005A80	1	1	0	41	EXTERNAL ELECTRICAL FITTINGS	6DEC88	6DEC88	12DEC88	12DEC88	5
220H004A80	1	1	0	42	EXTERNAL ELECTRICAL FITTINGS	8DEC88	8DEC88	15DEC88	15DEC88	6
320H176A80	1	1	0	43	EXTERNAL ELECTRICAL FITTINGS	14DEC88	14DEC88	19DEC88	19DEC88	4
320H177A80	1	1	0	44	EXTERNAL ELECTRICAL FITTINGS	17DEC88	17DEC88	22DEC88	22DEC88	5
215H027A80	1	1	0	45	EXTERNAL ELECTRICAL FITTINGS	22DEC88	22DEC88	26DEC88	26DEC88	3
215H026A80	1	1	0	46	EXTERNAL ELECTRICAL FITTINGS	25DEC88	25DEC88	29DEC88	29DEC88	4
215H025A80	1	1	0	47	EXTERNAL ELECTRICAL FITTINGS	31DEC88	31DEC88	3JAN89	3JAN89	2
215H024A80	1	1	0	48	EXTERNAL ELECTRICAL FITTINGS	3JAN89	3JAN89	7JAN89	7JAN89	3
215H023A80	1	1	0	49	EXTERNAL ELECTRICAL FITTINGS	9JAN89	9JAN89	10JAN89	10JAN89	1
215H022A80	1	1	0	50	EXTERNAL ELECTRICAL FITTINGS	11JAN89	11JAN89	14JAN89	14JAN89	2
211H043A81	1	1	0	51	EXTERNAL ELECTRICAL FITTINGS	17JAN89	17JAN89	17JAN89	17JAN89	0
211H042A81	1	1	0	01	ELECTRICAL & TELEPHONE NETWORKS TESTING	11JUL88	11JUL88	20CT88	20CT88	69
321H174A81	1	1	0	02	ELECTRICAL & TELEPHONE NETWORKS TESTING	12JUL88	12JUL88	5OCT88	5OCT88	71
321H175A81	1	1	0	03	ELECTRICAL & TELEPHONE NETWORKS TESTING	18JUL88	18JUL88	6OCT88	6OCT88	67
211H044A81	1	1	0	04	ELECTRICAL & TELEPHONE NETWORKS TESTING	21JUL88	21JUL88	10OCT88	10OCT88	67
323H185A81	1	1	0	05	ELECTRICAL & TELEPHONE NETWORKS TESTING	25JUL88	25JUL88	11OCT88	11OCT88	65
323H186A81	1	1	0	06	ELECTRICAL & TELEPHONE NETWORKS TESTING	28JUL88	28JUL88	15OCT88	15OCT88	65
323H187A81	1	1	0	07	ELECTRICAL & TELEPHONE NETWORKS TESTING	1AUG88	1AUG88	16OCT88	16OCT88	63
214H030A81	1	1	0	08	ELECTRICAL & TELEPHONE NETWORKS TESTING	6AUG88	6AUG88	19OCT88	19OCT88	63
214H029A81	1	1	0	09	ELECTRICAL & TELEPHONE NETWORKS TESTING	9AUG88	9AUG88	20OCT88	20OCT88	61
214H028A81	1	1	0	10	ELECTRICAL & TELEPHONE NETWORKS TESTING	13AUG88	13AUG88	24OCT88	24OCT88	61
214H031A81	1	1	0	11	ELECTRICAL & TELEPHONE NETWORKS TESTING	16AUG88	16AUG88	25OCT88	25OCT88	59
216H020A81	1	1	0	12	ELECTRICAL & TELEPHONE NETWORKS TESTING	20AUG88	20AUG88	29OCT88	29OCT88	59
216H019A81	1	1	0	13	ELECTRICAL & TELEPHONE NETWORKS TESTING	23AUG88	23AUG88	30OCT88	30OCT88	57
216H018A81	1	1	0	14	ELECTRICAL & TELEPHONE NETWORKS TESTING	28AUG88	28AUG88	2NOV88	2NOV88	57
218H015A81	1	1	0	15	ELECTRICAL & TELEPHONE NETWORKS TESTING	31AUG88	31AUG88	3NOV88	3NOV88	55
218H014A81	1	1	0	16	ELECTRICAL & TELEPHONE NETWORKS TESTING	4SEP88	4SEP88	7NOV88	7NOV88	55
218H013A81	1	1	0	17	ELECTRICAL & TELEPHONE NETWORKS TESTING	7SEP88	7SEP88	8NOV88	8NOV88	53
322H188A81	1	1	0	18	ELECTRICAL & TELEPHONE NETWORKS TESTING	11SEP88	11SEP88	12NOV88	12NOV88	53
322H189A81	1	1	0	19	ELECTRICAL & TELEPHONE NETWORKS TESTING	14SEP88	14SEP88	13NOV88	13NOV88	51
322H190A81	1	1	0	20	ELECTRICAL & TELEPHONE NETWORKS TESTING	18SEP88	18SEP88	16NOV88	16NOV88	51
216H021A81	1	1	0	21	ELECTRICAL & TELEPHONE NETWORKS TESTING	21SEP88	21SEP88	17NOV88	17NOV88	49
219H010A81	1	1	0	22	ELECTRICAL & TELEPHONE NETWORKS TESTING	25SEP88	25SEP88	21NOV88	21NOV88	49
220H007A81	1	1	0	23	ELECTRICAL & TELEPHONE NETWORKS TESTING	28SEP88	28SEP88	22NOV88	22NOV88	47
213H035A81	1	1	0	24	ELECTRICAL & TELEPHONE NETWORKS TESTING	2OCT88	2OCT88	26NOV88	26NOV88	47
213H036A81	1	1	0	25	ELECTRICAL & TELEPHONE NETWORKS TESTING	5OCT88	5OCT88	27NOV88	27NOV88	45
213H037A81	1	1	0	26	ELECTRICAL & TELEPHONE NETWORKS TESTING	9OCT88	9OCT88	30NOV88	30NOV88	45
213H032A81	1	1	0	27	ELECTRICAL & TELEPHONE NETWORKS TESTING	12OCT88	12OCT88	1DEC88	1DEC88	43
213H033A81	1	1	0	28	ELECTRICAL & TELEPHONE NETWORKS TESTING	16OCT88	16OCT88	5DEC88	5DEC88	43
213H034A81	1	1	0	29	ELECTRICAL & TELEPHONE NETWORKS TESTING	19OCT88	19OCT88	6DEC88	6DEC88	41
219H011A81	1	1	0	30	ELECTRICAL & TELEPHONE NETWORKS TESTING	23OCT88	23OCT88	10DEC88	10DEC88	41
219H012A81	1	1	0	31	ELECTRICAL & TELEPHONE NETWORKS TESTING	27OCT88	27OCT88	11DEC88	11DEC88	38
217H017A81	1	1	0	32	ELECTRICAL & TELEPHONE NETWORKS TESTING	30OCT88	30OCT88	14DEC88	14DEC88	38
217H016A81	1	1	0	33	ELECTRICAL & TELEPHONE NETWORKS TESTING	5NOV88	5NOV88	15DEC88	15DEC88	35
221H003A81	1	1	0	34	ELECTRICAL & TELEPHONE NETWORKS TESTING	7NOV88	7NOV88	19DEC88	19DEC88	36
221H002A81	1	1	0	35	ELECTRICAL & TELEPHONE NETWORKS TESTING	13NOV88	13NOV88	20DEC88	20DEC88	32
221H001A81	1	1	0	36	ELECTRICAL & TELEPHONE NETWORKS TESTING	15NOV88	15NOV88	24DEC88	24DEC88	33
211H001A81	1	1	0	37	ELECTRICAL & TELEPHONE NETWORKS TESTING	21NOV88	21NOV88	25DEC88	25DEC88	29

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 10MAR89*

18:31

Revd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 38

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
220H009A81	1	1	0	38	ELECTRICAL & TELEPHONE NETWORKS TESTING	23NOV88	23NOV88	28DEC88	28DEC88	30
220H008A81	1	1	0	39	ELECTRICAL & TELEPHONE NETWORKS TESTING	29NOV88	29NOV88	29DEC88	29DEC88	26
220H006A81	1	1	0	40	ELECTRICAL & TELEPHONE NETWORKS TESTING	1DEC88	1DEC88	3JAN89	3JAN89	27
220H005A81	1	1	0	41	ELECTRICAL & TELEPHONE NETWORKS TESTING	7DEC88	7DEC88	4JAN89	4JAN89	23
220H004A81	1	1	0	42	ELECTRICAL & TELEPHONE NETWORKS TESTING	10DEC88	10DEC88	8JAN89	8JAN89	24
220H176A81	1	1	0	43	ELECTRICAL & TELEPHONE NETWORKS TESTING	15DEC88	15DEC88	9JAN89	9JAN89	20
220H177A81	1	1	0	44	ELECTRICAL & TELEPHONE NETWORKS TESTING	18DEC88	18DEC88	12JAN89	12JAN89	21
220H178A81	1	1	0	45	ELECTRICAL & TELEPHONE NETWORKS TESTING	24DEC88	24DEC88	14JAN89	14JAN89	17
215H027A81	1	1	0	46	ELECTRICAL & TELEPHONE NETWORKS TESTING	26DEC88	26DEC88	17JAN89	17JAN89	18
215H026A81	1	1	0	47	ELECTRICAL & TELEPHONE NETWORKS TESTING	2JAN89	2JAN89	18JAN89	18JAN89	14
215H025A81	1	1	0	48	ELECTRICAL & TELEPHONE NETWORKS TESTING	4JAN89	4JAN89	22JAN89	22JAN89	15
215H024A81	1	1	0	49	ELECTRICAL & TELEPHONE NETWORKS TESTING	10JAN89	10JAN89	23JAN89	23JAN89	11
215H023A81	1	1	0	50	ELECTRICAL & TELEPHONE NETWORKS TESTING	12JAN89	12JAN89	26JAN89	26JAN89	12
215H022A81	1	1	0	51	ELECTRICAL & TELEPHONE NETWORKS TESTING	18JAN89	18JAN89	28JAN89	28JAN89	8
211H043A82	3	3	0	01	LAST COAT OF PAINT	11JUL88	13JUL88	24JUL88	26JUL88	11
211H042A82	3	3	0	02	LAST COAT OF PAINT	14JUL88	17JUL88	27JUL88	30JUL88	11
211H174A82	3	3	0	03	LAST COAT OF PAINT	18JUL88	20JUL88	31JUL88	2AUG88	11
211H175A82	3	3	0	04	LAST COAT OF PAINT	21JUL88	24JUL88	3AUG88	7AUG88	11
211H044A82	3	3	0	05	LAST COAT OF PAINT	25JUL88	27JUL88	8AUG88	10AUG88	11
223H185A82	3	3	0	06	LAST COAT OF PAINT	28JUL88	31JUL88	11AUG88	14AUG88	11
223H186A82	3	3	0	07	LAST COAT OF PAINT	1AUG88	3AUG88	15AUG88	17AUG88	11
223H187A82	3	3	0	08	LAST COAT OF PAINT	6AUG88	8AUG88	18AUG88	21AUG88	11
214H030A82	3	3	0	09	LAST COAT OF PAINT	9AUG88	11AUG88	22AUG88	24AUG88	11
214H029A82	3	3	0	10	LAST COAT OF PAINT	13AUG88	15AUG88	27AUG88	29AUG88	11
214H028A82	3	3	0	11	LAST COAT OF PAINT	16AUG88	18AUG88	30AUG88	1SEP88	11
214H031A82	3	3	0	12	LAST COAT OF PAINT	20AUG88	22AUG88	3SEP88	5SEP88	11
216H020A82	3	3	0	13	LAST COAT OF PAINT	23AUG88	27AUG88	6SEP88	8SEP88	11
216H019A82	3	3	0	14	LAST COAT OF PAINT	28AUG88	30AUG88	10SEP88	12SEP88	11
216H018A82	3	3	0	15	LAST COAT OF PAINT	31AUG88	3SEP88	13SEP88	15SEP88	11
218H015A82	3	3	0	16	LAST COAT OF PAINT	4SEP88	6SEP88	17SEP88	19SEP88	11
218H014A82	3	3	0	17	LAST COAT OF PAINT	7SEP88	10SEP88	20SEP88	22SEP88	11
218H013A82	3	3	0	18	LAST COAT OF PAINT	11SEP88	13SEP88	24SEP88	26SEP88	11
222H188A82	3	3	0	19	LAST COAT OF PAINT	14SEP88	17SEP88	27SEP88	29SEP88	11
222H189A82	3	3	0	20	LAST COAT OF PAINT	18SEP88	20SEP88	1OCT88	3OCT88	11
222H190A82	3	3	0	21	LAST COAT OF PAINT	21SEP88	24SEP88	4OCT88	6OCT88	11
216H021A82	3	3	0	22	LAST COAT OF PAINT	25SEP88	27SEP88	8OCT88	10OCT88	11
219H010A82	3	3	0	23	LAST COAT OF PAINT	28SEP88	1OCT88	11OCT88	13OCT88	11
220H007A82	3	3	0	24	LAST COAT OF PAINT	2OCT88	4OCT88	15OCT88	17OCT88	11
213H035A82	3	3	0	25	LAST COAT OF PAINT	5OCT88	8OCT88	18OCT88	20OCT88	11
213H036A82	3	3	0	26	LAST COAT OF PAINT	9OCT88	11OCT88	22OCT88	24OCT88	11
213H037A82	3	3	0	27	LAST COAT OF PAINT	12OCT88	15OCT88	25OCT88	27OCT88	11
213H032A82	3	3	0	28	LAST COAT OF PAINT	16OCT88	18OCT88	29OCT88	31OCT88	11
213H033A82	3	3	0	29	LAST COAT OF PAINT	19OCT88	22OCT88	1NOV88	3NOV88	11
213H034A82	3	3	0	30	LAST COAT OF PAINT	23OCT88	25OCT88	5NOV88	7NOV88	11
219H011A82	3	3	0	31	LAST COAT OF PAINT	27OCT88	30OCT88	8NOV88	10NOV88	10
219H012A82	3	3	0	32	LAST COAT OF PAINT	31OCT88	2NOV88	12NOV88	14NOV88	10
217H017A82	3	3	0	33	LAST COAT OF PAINT	8NOV88	15NOV88	17NOV88	17NOV88	9
217H016A82	3	3	0	34	LAST COAT OF PAINT	8NOV88	10NOV88	19NOV88	21NOV88	9
221H003A82	3	3	0	35	LAST COAT OF PAINT	13NOV88	15NOV88	22NOV88	24NOV88	8
221H002A82	3	3	0	36	LAST COAT OF PAINT	16NOV88	19NOV88	26NOV88	28NOV88	8
221H001A82	3	3	0	37	LAST COAT OF PAINT	21NOV88	23NOV88	29NOV88	1DEC88	7
220H009A82	3	3	0	38	LAST COAT OF PAINT	24NOV88	27NOV88	3DEC88	5DEC88	7
220H008A82	3	3	0	39	LAST COAT OF PAINT	29NOV88	1DEC88	6DEC88	8DEC88	6
220H006A82	3	3	0	40	LAST COAT OF PAINT	3DEC88	5DEC88	10DEC88	12DEC88	6
220H005A82	3	3	0	41	LAST COAT OF PAINT	7DEC88	10DEC88	13DEC88	15DEC88	5
220H004A82	3	3	0	42	LAST COAT OF PAINT	11DEC88	13DEC88	17DEC88	19DEC88	5
220H176A82	3	3	0	43	LAST COAT OF PAINT	15DEC88	18DEC88	20DEC88	22DEC88	4
220H177A82	3	3	0	44	LAST COAT OF PAINT	19DEC88	21DEC88	24DEC88	26DEC88	4
220H178A82	3	3	0	45	LAST COAT OF PAINT	24DEC88	26DEC88	27DEC88	29DEC88	3
215H027A82	3	3	0	46	LAST COAT OF PAINT	27DEC88	29DEC88	31DEC88	3JAN89	3
215H026A82	3	3	0	47	LAST COAT OF PAINT	2JAN89	4JAN89	4JAN89	7JAN89	2
215H025A82	3	3	0	48	LAST COAT OF PAINT	5JAN89	8JAN89	8JAN89	10JAN89	2
215H024A82	3	3	0	49	LAST COAT OF PAINT	10JAN89	12JAN89	11JAN89	14JAN89	1
215H023A82	3	3	0	50	LAST COAT OF PAINT	14JAN89	16JAN89	15JAN89	17JAN89	1
211H043A83	4	4	0	01	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	14JUL88	18JUL88	21JUL88	23JUL88	0
211H042A83	4	4	0	02	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	18JUL88	21JUL88	28SEP88	29SEP88	61
211H174A83	4	4	0	03	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	21JUL88	25JUL88	1OCT88	4OCT88	59
211H175A83	4	4	0	04	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	25JUL88	28JUL88	3OCT88	6OCT88	58
211H044A83	4	4	0	05	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	28JUL88	1AUG88	5OCT88	9OCT88	57
223H185A83	4	4	0	06	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	1AUG88	6AUG88	8OCT88	11OCT88	56
223H186A83	4	4	0	07	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	6AUG88	9AUG88	10OCT88	13OCT88	55
223H187A83	4	4	0	08	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	9AUG88	13AUG88	12OCT88	16OCT88	54
214H030A83	4	4	0	09	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	13AUG88	16AUG88	15OCT88	18OCT88	53
214H029A83	4	4	0	10	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	16AUG88	20AUG88	17OCT88	20OCT88	52
214H028A83	4	4	0	11	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	20AUG88	23AUG88	19OCT88	23OCT88	51
214H031A83	4	4	0	12	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	23AUG88	28AUG88	22OCT88	25OCT88	50
216H020A83	4	4	0	13	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	28AUG88	31AUG88	24OCT88	27OCT88	49
216H019A83	4	4	0	14	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	31AUG88	4SEP88	26OCT88	30OCT88	48
216H018A83	4	4	0	15	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	4SEP88	7SEP88	29OCT88	1NOV88	47
218H015A83	4	4	0	16	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	7SEP88	11SEP88	31OCT88	3NOV88	46
218H014A83	4	4	0	17	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	11SEP88	14SEP88	2NOV88	6NOV88	45
218H013A83	4	4	0	18	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	14SEP88	18SEP88	5NOV88	8NOV88	44
222H188A83	4	4	0	19	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	18SEP88	21SEP88	7NOV88	10NOV88	43
222H189A83	4	4	0	20	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	21SEP88	25SEP88	9NOV88	13NOV88	42
222H190A83	4	4	0	21	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	25SEP88	28SEP88	12NOV88	15NOV88	41
216H021A83	4	4	0	22	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	28SEP88	2OCT88	14NOV88	17NOV88	40
219H010A83	4	4	0	23	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	2OCT88	5OCT88	16NOV88	20NOV88	39
220H007A83	4	4	0	24	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	5OCT88	9OCT88	19NOV88	23NOV88	38
220H008A83	4	4	0	25	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	9OCT88	12OCT88	21NOV88	24NOV88	37
220H006A83	4	4	0	26	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	12OCT88	16OCT88	23NOV88	27NOV88	36
220H005A83	4	4	0	27	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	16OCT88	19OCT88	26NOV88	29NOV88	35
220H004A83	4	4	0	28	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	19OCT88	23OCT88	28NOV88	1DEC88	34
220H176A83	4	4	0	29	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	23OCT88	26OCT88	30NOV88	4DEC88	33
220H177A83	4	4	0	30	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	26OCT88	30OCT88	3DEC88	6DEC88	32
220H178A83	4	4	0	31	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	31OCT88	3NOV88	5DEC88	8DEC88	30

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

REPORT DATE 21SEP95 RUN NO. 205

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR97 FIN DATE 30MAR99*

Rev'd & Decel Schl by Typical Activity & ES

DATA DATE 1FEB98 PAGE NO. 39

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
219H012A83	4	4	0	32	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	3NOV88	7NOV88	7DEC88	11DEC88	29
217H017A83	4	4	0	33	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	8NOV88	12NOV88	10DEC88	13DEC88	27
217H016A83	4	4	0	34	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	12NOV88	15NOV88	12DEC88	15DEC88	26
221H002A83	4	4	0	35	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	16NOV88	20NOV88	14DEC88	18DEC88	24
221H002A83	4	4	0	36	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	20NOV88	23NOV88	17DEC88	20DEC88	23
221H001A83	4	4	0	37	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	24NOV88	28NOV88	19DEC88	22DEC88	21
220H009A83	4	4	0	38	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	28NOV88	1DEC88	21DEC88	25DEC88	20
220H008A83	4	4	0	39	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	3DEC88	6DEC88	24DEC88	27DEC88	18
220H006A83	4	4	0	40	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	6DEC88	10DEC88	26DEC88	29DEC88	17
220H005A83	4	4	0	41	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	11DEC88	14DEC88	28DEC88	31DEC88	15
220H004A83	4	4	0	42	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	14DEC88	18DEC88	31DEC88	34DEC88	14
320H176A83	4	4	0	43	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	19DEC88	22DEC88	3JAN89	7JAN89	12
320H177A83	4	4	0	44	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	22DEC88	26DEC88	5JAN89	9JAN89	11
320H178A83	4	4	0	45	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	27DEC88	31DEC88	8JAN89	11JAN89	9
215H027A83	4	4	0	46	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	31DEC88	4JAN89	10JAN89	14JAN89	8
215H026A83	4	4	0	47	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	5JAN89	9JAN89	12JAN89	16JAN89	6
215H025A83	4	4	0	48	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	9JAN89	12JAN89	15JAN89	18JAN89	5
215H024A83	4	4	0	49	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	14JAN89	17JAN89	17JAN89	21JAN89	3
215H023A83	4	4	0	50	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	17JAN89	21JAN89	19JAN89	23JAN89	2
215H022A83	4	4	0	51	INT. & EXT. TERRAZZO TILES GRINDING & POLISHING	22JAN89	25JAN89	22JAN89	25JAN89	0
211H043A84	2	2	0	01	HOUSE FINAL CLEANING	19JUL88	20JUL88	10OCT88	20OCT88	61
211H042A84	2	2	0	02	HOUSE FINAL CLEANING	23JUL88	24JUL88	30OCT88	40OCT88	60
321H174A84	2	2	0	03	HOUSE FINAL CLEANING	26JUL88	27JUL88	50OCT88	60OCT88	59
321H175A84	2	2	0	04	HOUSE FINAL CLEANING	30JUL88	31JUL88	80OCT88	90OCT88	58
211H044A84	2	2	0	05	HOUSE FINAL CLEANING	2AUG88	3AUG88	10OCT88	11OCT88	57
323H185A84	2	2	0	06	HOUSE FINAL CLEANING	7AUG88	8AUG88	12OCT88	13OCT88	56
323H186A84	2	2	0	07	HOUSE FINAL CLEANING	10AUG88	11AUG88	15OCT88	16OCT88	55
323H187A84	2	2	0	08	HOUSE FINAL CLEANING	14AUG88	15AUG88	17OCT88	18OCT88	54
214H030A84	2	2	0	09	HOUSE FINAL CLEANING	17AUG88	18AUG88	19OCT88	20OCT88	53
214H029A84	2	2	0	10	HOUSE FINAL CLEANING	21AUG88	22AUG88	22OCT88	23OCT88	52
214H028A84	2	2	0	11	HOUSE FINAL CLEANING	24AUG88	27AUG88	24OCT88	25OCT88	51
214H031A84	2	2	0	12	HOUSE FINAL CLEANING	29AUG88	30AUG88	26OCT88	27OCT88	50
216H020A84	2	2	0	13	HOUSE FINAL CLEANING	1SEP88	3SEP88	29OCT88	30OCT88	49
216H019A84	2	2	0	14	HOUSE FINAL CLEANING	5SEP88	6SEP88	31OCT88	1NOV88	48
216H018A84	2	2	0	15	HOUSE FINAL CLEANING	8SEP88	10SEP88	2NOV88	3NOV88	47
218H015A84	2	2	0	16	HOUSE FINAL CLEANING	12SEP88	13SEP88	5NOV88	6NOV88	46
218H014A84	2	2	0	17	HOUSE FINAL CLEANING	15SEP88	17SEP88	7NOV88	8NOV88	45
218H013A84	2	2	0	18	HOUSE FINAL CLEANING	19SEP88	20SEP88	9NOV88	10NOV88	44
322H188A84	2	2	0	19	HOUSE FINAL CLEANING	22SEP88	24SEP88	12NOV88	13NOV88	43
322H189A84	2	2	0	20	HOUSE FINAL CLEANING	26SEP88	27SEP88	14NOV88	15NOV88	42
322H190A84	2	2	0	21	HOUSE FINAL CLEANING	29SEP88	1OCT88	16NOV88	17NOV88	41
216H021A84	2	2	0	22	HOUSE FINAL CLEANING	3OCT88	4OCT88	19NOV88	20NOV88	40
219H010A84	2	2	0	23	HOUSE FINAL CLEANING	4OCT88	8OCT88	21NOV88	22NOV88	39
220H007A84	2	2	0	24	HOUSE FINAL CLEANING	10OCT88	11OCT88	23NOV88	24NOV88	38
213H035A84	2	2	0	25	HOUSE FINAL CLEANING	13OCT88	15OCT88	26NOV88	27NOV88	37
213H036A84	2	2	0	26	HOUSE FINAL CLEANING	17OCT88	18OCT88	28NOV88	29NOV88	36
213H037A84	2	2	0	27	HOUSE FINAL CLEANING	20OCT88	22OCT88	30NOV88	1DEC88	35
213H032A84	2	2	0	28	HOUSE FINAL CLEANING	24OCT88	25OCT88	3DEC88	4DEC88	34
213H033A84	2	2	0	29	HOUSE FINAL CLEANING	27OCT88	29OCT88	5DEC88	6DEC88	33
213H034A84	2	2	0	30	HOUSE FINAL CLEANING	31OCT88	1NOV88	7DEC88	8DEC88	32
219H011A84	2	2	0	31	HOUSE FINAL CLEANING	5NOV88	6NOV88	10DEC88	11DEC88	30
219H012A84	2	2	0	32	HOUSE FINAL CLEANING	8NOV88	9NOV88	12DEC88	13DEC88	29
217H017A84	2	2	0	33	HOUSE FINAL CLEANING	13NOV88	14NOV88	14DEC88	15DEC88	27
217H016A84	2	2	0	34	HOUSE FINAL CLEANING	16NOV88	17NOV88	17DEC88	18DEC88	26
221H003A84	2	2	0	35	HOUSE FINAL CLEANING	21NOV88	22NOV88	19DEC88	20DEC88	24
221H002A84	2	2	0	36	HOUSE FINAL CLEANING	24NOV88	26NOV88	21DEC88	22DEC88	23
221H001A84	2	2	0	37	HOUSE FINAL CLEANING	29NOV88	30NOV88	24DEC88	25DEC88	21
220H009A84	2	2	0	38	HOUSE FINAL CLEANING	3DEC88	4DEC88	26DEC88	27DEC88	20
220H008A84	2	2	0	39	HOUSE FINAL CLEANING	7DEC88	8DEC88	28DEC88	29DEC88	18
220H006A84	2	2	0	40	HOUSE FINAL CLEANING	11DEC88	12DEC88	31DEC88	3JAN89	17
220H005A84	2	2	0	41	HOUSE FINAL CLEANING	15DEC88	17DEC88	3JAN89	4JAN89	15
220H004A84	2	2	0	42	HOUSE FINAL CLEANING	19DEC88	20DEC88	5JAN89	7JAN89	14
320H176A84	2	2	0	43	HOUSE FINAL CLEANING	24DEC88	25DEC88	8JAN89	9JAN89	12
320H177A84	2	2	0	44	HOUSE FINAL CLEANING	27DEC88	29DEC88	10JAN89	11JAN89	11
320H178A84	2	2	0	45	HOUSE FINAL CLEANING	31JAN89	3JAN89	12JAN89	14JAN89	9
215H027A84	2	2	0	46	HOUSE FINAL CLEANING	5JAN89	7JAN89	15JAN89	16JAN89	8
215H026A84	2	2	0	47	HOUSE FINAL CLEANING	10JAN89	11JAN89	17JAN89	18JAN89	6
215H025A84	2	2	0	48	HOUSE FINAL CLEANING	14JAN89	15JAN89	19JAN89	21JAN89	5
215H024A84	2	2	0	49	HOUSE FINAL CLEANING	18JAN89	19JAN89	22JAN89	23JAN89	3
215H023A84	2	2	0	50	HOUSE FINAL CLEANING	23JAN89	23JAN89	24JAN89	25JAN89	2
215H022A84	2	2	0	51	HOUSE FINAL CLEANING	26JAN89	28JAN89	26JAN89	28JAN89	0
211H043A85	4	4	0	01	FINAL PAINT & TOUCH-UPS	21JUL88	25JUL88	30OCT88	60OCT88	61
211H042A85	4	4	0	02	FINAL PAINT & TOUCH-UPS	25JUL88	28JUL88	80OCT88	11OCT88	62
321H174A85	4	4	0	03	FINAL PAINT & TOUCH-UPS	28JUL88	1AUG88	80OCT88	11OCT88	59
321H175A85	4	4	0	04	FINAL PAINT & TOUCH-UPS	1AUG88	6AUG88	12OCT88	16OCT88	60
211H044A85	4	4	0	05	FINAL PAINT & TOUCH-UPS	6AUG88	9AUG88	12OCT88	16OCT88	57
323H185A85	4	4	0	06	FINAL PAINT & TOUCH-UPS	9AUG88	13AUG88	17OCT88	20OCT88	58
323H186A85	4	4	0	07	FINAL PAINT & TOUCH-UPS	13AUG88	16AUG88	17OCT88	20OCT88	55
323H187A85	4	4	0	08	FINAL PAINT & TOUCH-UPS	16AUG88	20AUG88	22OCT88	25OCT88	56
214H030A85	4	4	0	09	FINAL PAINT & TOUCH-UPS	20AUG88	23AUG88	22OCT88	25OCT88	53
214H029A85	4	4	0	10	FINAL PAINT & TOUCH-UPS	23AUG88	28AUG88	26OCT88	30OCT88	54
214H028A85	4	4	0	11	FINAL PAINT & TOUCH-UPS	28AUG88	31AUG88	26OCT88	30OCT88	51
214H031A85	4	4	0	12	FINAL PAINT & TOUCH-UPS	31AUG88	4SEP88	31OCT88	3NOV88	52
216H020A85	4	4	0	13	FINAL PAINT & TOUCH-UPS	4SEP88	7SEP88	31OCT88	3NOV88	49
216H019A85	4	4	0	14	FINAL PAINT & TOUCH-UPS	7SEP88	11SEP88	5NOV88	8NOV88	50
216H018A85	4	4	0	15	FINAL PAINT & TOUCH-UPS	11SEP88	14SEP88	5NOV88	8NOV88	47
218H015A85	4	4	0	16	FINAL PAINT & TOUCH-UPS	14SEP88	18SEP88	9NOV88	13NOV88	48
218H014A85	4	4	0	17	FINAL PAINT & TOUCH-UPS	18SEP88	21SEP88	9NOV88	13NOV88	45
218H013A85	4	4	0	18	FINAL PAINT & TOUCH-UPS	21SEP88	25SEP88	14NOV88	17NOV88	46
322H188A85	4	4	0	19	FINAL PAINT & TOUCH-UPS	25SEP88	28SEP88	14NOV88	17NOV88	43
322H189A85	4	4	0	20	FINAL PAINT & TOUCH-UPS	28SEP88	2OCT88	19NOV88	22NOV88	44
322H190A85	4	4	0	21	FINAL PAINT & TOUCH-UPS	2OCT88	5OCT88	19NOV88	22NOV88	41
216H021A85	4	4	0	22	FINAL PAINT & TOUCH-UPS	5OCT88	9OCT88	23NOV88	27NOV88	42
219H010A85	4	4	0	23	FINAL PAINT & TOUCH-UPS	9OCT88	12OCT88	23NOV88	27NOV88	39
220H007A85	4	4	0	24	FINAL PAINT & TOUCH-UPS	12OCT88	16OCT88	28NOV88	1DEC88	40
213H035A85	4	4	0	25	FINAL PAINT & TOUCH-UPS	16OCT88	19OCT88	28NOV88	1DEC88	37

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

SAUD & EBRAHIM ALABDULRAZZAK EST.

PRIMAVERA PROJECT PLANNER

Correcting Out-of-Logic Progress NSq

REPORT DATE 21SEP95 RUN NO. 205
18:31

SEVEN SEAS, CONSTRUCTION OF 51 HOUSES

START DATE 1APR87 FIN DATE 30MAR89*

Rev'd & Decal Schl by Typical Activity & ES

DATA DATE 1FEB88 PAGE NO. 40

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
213M036A85	4	4	0	26	FINAL PAINT & TOUCH-UPS	19OCT88	23OCT88	3DEC88	6DEC88	38
213M037A85	4	4	0	27	FINAL PAINT & TOUCH-UPS	23OCT88	26OCT88	3DEC88	6DEC88	35
213M032A85	4	4	0	28	FINAL PAINT & TOUCH-UPS	26OCT88	30OCT88	7DEC88	11DEC88	36
213M033A85	4	4	0	29	FINAL PAINT & TOUCH-UPS	30OCT88	2NOV88	7DEC88	11DEC88	33
213M034A85	4	4	0	30	FINAL PAINT & TOUCH-UPS	2NOV88	6NOV88	12DEC88	15DEC88	34
219H011A85	4	4	0	31	FINAL PAINT & TOUCH-UPS	7NOV88	10NOV88	12DEC88	15DEC88	30
219H012A85	4	4	0	32	FINAL PAINT & TOUCH-UPS	10NOV88	14NOV88	17DEC88	20DEC88	31
217H017A85	4	4	0	33	FINAL PAINT & TOUCH-UPS	15NOV88	19NOV88	17DEC88	20DEC88	27
217H016A85	4	4	0	34	FINAL PAINT & TOUCH-UPS	19NOV88	22NOV88	21DEC88	25DEC88	28
221M003A85	4	4	0	35	FINAL PAINT & TOUCH-UPS	23NOV88	27NOV88	21DEC88	25DEC88	24
221M002A85	4	4	0	36	FINAL PAINT & TOUCH-UPS	27NOV88	30NOV88	26DEC88	29DEC88	25
221M001A85	4	4	0	37	FINAL PAINT & TOUCH-UPS	1DEC88	5DEC88	26DEC88	29DEC88	21
220H009A85	4	4	0	38	FINAL PAINT & TOUCH-UPS	5DEC88	8DEC88	31DEC88	4JAN89	22
220H008A85	4	4	0	39	FINAL PAINT & TOUCH-UPS	10DEC88	13DEC88	31DEC88	4JAN89	18
220H006A85	4	4	0	40	FINAL PAINT & TOUCH-UPS	13DEC88	17DEC88	5JAN89	9JAN89	19
220H005A85	4	4	0	41	FINAL PAINT & TOUCH-UPS	18DEC88	21DEC88	5JAN89	9JAN89	15
220H004A85	4	4	0	42	FINAL PAINT & TOUCH-UPS	21DEC88	25DEC88	10JAN89	14JAN89	16
320H176A85	4	4	0	43	FINAL PAINT & TOUCH-UPS	26DEC88	29DEC88	10JAN89	14JAN89	12
320H177A85	4	4	0	44	FINAL PAINT & TOUCH-UPS	29DEC88	3JAN89	15JAN89	18JAN89	13
320H178A85	4	4	0	45	FINAL PAINT & TOUCH-UPS	4JAN89	8JAN89	15JAN89	18JAN89	9
215H027A85	4	4	0	46	FINAL PAINT & TOUCH-UPS	8JAN89	11JAN89	19JAN89	21JAN89	10
215H026A85	4	4	0	47	FINAL PAINT & TOUCH-UPS	12JAN89	16JAN89	19JAN89	21JAN89	7
215H025A85	4	4	0	48	FINAL PAINT & TOUCH-UPS	16JAN89	19JAN89	24JAN89	28JAN89	7
215H024A85	4	4	0	49	FINAL PAINT & TOUCH-UPS	21JAN89	24JAN89	24JAN89	28JAN89	3
215H023A85	4	4	0	50	FINAL PAINT & TOUCH-UPS	24JAN89	28JAN89	29JAN89	1FEB89	4
215H022A85	4	4	0	51	FINAL PAINT & TOUCH-UPS	29JAN89	1FEB89	29JAN89	1FEB89	0
211H043A86	0	0	0	01	HOUSE COMPLETION	25JUL88	1FEB89		1FEB89	161
211H042A86	0	0	0	02	HOUSE COMPLETION	28JUL88	1FEB89		1FEB89	158
321H174A86	0	0	0	03	HOUSE COMPLETION	1AUG88	1FEB89		1FEB89	155
321H175A86	0	0	0	04	HOUSE COMPLETION	6AUG88	1FEB89		1FEB89	152
211H044A86	0	0	0	05	HOUSE COMPLETION	9AUG88	1FEB89		1FEB89	149
323H185A86	0	0	0	06	HOUSE COMPLETION	13AUG88	1FEB89		1FEB89	146
323H186A86	0	0	0	07	HOUSE COMPLETION	16AUG88	1FEB89		1FEB89	143
323H187A86	0	0	0	08	HOUSE COMPLETION	20AUG88	1FEB89		1FEB89	140
214H030A86	0	0	0	09	HOUSE COMPLETION	23AUG88	1FEB89		1FEB89	137
214H029A86	0	0	0	10	HOUSE COMPLETION	28AUG88	1FEB89		1FEB89	134
214H028A86	0	0	0	11	HOUSE COMPLETION	31AUG88	1FEB89		1FEB89	131
214H031A86	0	0	0	12	HOUSE COMPLETION	4SEP88	1FEB89		1FEB89	128
216H020A86	0	0	0	13	HOUSE COMPLETION	7SEP88	1FEB89		1FEB89	125
216H019A86	0	0	0	14	HOUSE COMPLETION	11SEP88	1FEB89		1FEB89	122
216H018A86	0	0	0	15	HOUSE COMPLETION	14SEP88	1FEB89		1FEB89	119
218H015A86	0	0	0	16	HOUSE COMPLETION	18SEP88	1FEB89		1FEB89	116
218H014A86	0	0	0	17	HOUSE COMPLETION	21SEP88	1FEB89		1FEB89	113
218H013A86	0	0	0	18	HOUSE COMPLETION	25SEP88	1FEB89		1FEB89	110
322H189A86	0	0	0	19	HOUSE COMPLETION	28SEP88	1FEB89		1FEB89	107
322H189A86	0	0	0	20	HOUSE COMPLETION	2OCT88	1FEB89		1FEB89	104
322H190A86	0	0	0	21	HOUSE COMPLETION	5OCT88	1FEB89		1FEB89	101
216H021A86	0	0	0	22	HOUSE COMPLETION	9OCT88	1FEB89		1FEB89	98
219H010A86	0	0	0	23	HOUSE COMPLETION	12OCT88	1FEB89		1FEB89	95
220H007A86	0	0	0	24	HOUSE COMPLETION	16OCT88	1FEB89		1FEB89	92
213H035A86	0	0	0	25	HOUSE COMPLETION	19OCT88	1FEB89		1FEB89	89
213H036A86	0	0	0	26	HOUSE COMPLETION	23OCT88	1FEB89		1FEB89	86
213H037A86	0	0	0	27	HOUSE COMPLETION	26OCT88	1FEB89		1FEB89	83
213H032A86	0	0	0	28	HOUSE COMPLETION	30OCT88	1FEB89		1FEB89	80
213H033A86	0	0	0	29	HOUSE COMPLETION	2NOV88	1FEB89		1FEB89	77
213H034A86	0	0	0	30	HOUSE COMPLETION	6NOV88	1FEB89		1FEB89	74
219H011A86	0	0	0	31	HOUSE COMPLETION	10NOV88	1FEB89		1FEB89	70
219H012A86	0	0	0	32	HOUSE COMPLETION	14NOV88	1FEB89		1FEB89	67
217H017A86	0	0	0	33	HOUSE COMPLETION	19NOV88	1FEB89		1FEB89	63
217H016A86	0	0	0	34	HOUSE COMPLETION	23NOV88	1FEB89		1FEB89	60
221M003A86	0	0	0	35	HOUSE COMPLETION	27NOV88	1FEB89		1FEB89	56
221M002A86	0	0	0	36	HOUSE COMPLETION	30NOV88	1FEB89		1FEB89	53
221M001A86	0	0	0	37	HOUSE COMPLETION	5DEC88	1FEB89		1FEB89	49
220H009A86	0	0	0	38	HOUSE COMPLETION	8DEC88	1FEB89		1FEB89	46
220H008A86	0	0	0	39	HOUSE COMPLETION	13DEC88	1FEB89		1FEB89	42
220H006A86	0	0	0	40	HOUSE COMPLETION	17DEC88	1FEB89		1FEB89	39
220H005A86	0	0	0	41	HOUSE COMPLETION	21DEC88	1FEB89		1FEB89	35
220H004A86	0	0	0	42	HOUSE COMPLETION	25DEC88	1FEB89		1FEB89	32
320H176A86	0	0	0	43	HOUSE COMPLETION	29DEC88	1FEB89		1FEB89	28
320H177A86	0	0	0	44	HOUSE COMPLETION	3JAN89	1FEB89		1FEB89	25
320H178A86	0	0	0	45	HOUSE COMPLETION	8JAN89	1FEB89		1FEB89	21
215H027A86	0	0	0	46	HOUSE COMPLETION	11JAN89	1FEB89		1FEB89	18
215H026A86	0	0	0	47	HOUSE COMPLETION	16JAN89	1FEB89		1FEB89	14
215H025A86	0	0	0	48	HOUSE COMPLETION	19JAN89	1FEB89		1FEB89	11
215H024A86	0	0	0	49	HOUSE COMPLETION	24JAN89	1FEB89		1FEB89	7
215H023A86	0	0	0	50	HOUSE COMPLETION	28JAN89	1FEB89		1FEB89	4
215H022A86	0	0	0	51	HOUSE COMPLETION	1FEB89	1FEB89		1FEB89	0
211H044A91	9	1	89	05	GF CEMENT BLOCK WORKS	15FEB88	15FEB88	15MAR88	15MAR88	24
214H030A91	9	9	0	09	GF CEMENT BLOCK WORKS	15FEB88	24FEB88	24MAR88	4APR88	32
214H029A91	9	9	0	10	GF CEMENT BLOCK WORKS	15FEB88	24FEB88	30MAR88	9APR88	36
214H028A91	9	9	0	11	GF CEMENT BLOCK WORKS	16FEB88	27FEB88	4APR88	13APR88	39
214H031A91	9	9	0	12	GF CEMENT BLOCK WORKS	27FEB88	7MAR88	9APR88	18APR88	35
216H020A91	9	9	0	13	GF CEMENT BLOCK WORKS	27FEB88	7MAR88	13APR88	23APR88	39
216H019A91	9	9	0	14	GF CEMENT BLOCK WORKS	28FEB88	8MAR88	18APR88	27APR88	42
216H018A91	9	9	0	15	GF CEMENT BLOCK WORKS	8MAR88	17MAR88	23APR88	2MAY88	38
218H015A91	9	9	0	16	GF CEMENT BLOCK WORKS	8MAR88	17MAR88	27APR88	7MAY88	42
218H014A91	9	9	0	17	GF CEMENT BLOCK WORKS	9MAR88	19MAR88	1MAY88	10MAY88	44
218H013A91	9	9	0	18	GF CEMENT BLOCK WORKS	19MAR88	29MAR88	5MAY88	15MAY88	40
322H188A91	9	9	0	19	GF CEMENT BLOCK WORKS	19MAR88	29MAR88	9MAY88	18MAY88	43
322H189A91	9	9	0	20	GF CEMENT BLOCK WORKS	20MAR88	30MAR88	12MAY88	22MAY88	45
322H190A91	9	9	0	21	GF CEMENT BLOCK WORKS	30MAR88	9APR88	16MAY88	25MAY88	40
216H021A91	9	9	0	22	GF CEMENT BLOCK WORKS	30MAR88	9APR88	19MAY88	29MAY88	43
219H010A91	9	9	0	23	GF CEMENT BLOCK WORKS	31MAR88	10APR88	23MAY88	3JUN88	45
220H007A91	9	9	0	24	GF CEMENT BLOCK WORKS	10APR88	19APR88	26MAY88	6JUN88	40
213H035A91	9	9	0	25	GF CEMENT BLOCK WORKS	10APR88	19APR88	31MAY88	9JUN88	43
213H036A91	9	9	0	26	GF CEMENT BLOCK WORKS	11APR88	20APR88	4JUN88	13JUN88	45

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
213H037A91	9	9	0	27	GF CEMENT BLOCK WORKS	20APR88	30APR88	7JUN88	16JUN88	40
213H032A91	9	9	0	28	GF CEMENT BLOCK WORKS	20APR88	30APR88	11JUN88	20JUN88	43
213H033A91	9	9	0	29	GF CEMENT BLOCK WORKS	21APR88	1MAY88	14JUN88	23JUN88	45
213H034A91	9	9	0	30	GF CEMENT BLOCK WORKS	1MAY88	10MAY88	18JUN88	27JUN88	40
219H011A91	9	9	0	31	GF CEMENT BLOCK WORKS	1MAY88	10MAY88	21JUN88	30JUN88	43
219H012A91	9	9	0	32	GF CEMENT BLOCK WORKS	2MAY88	11MAY88	25JUN88	4JUL88	45
217H017A91	9	9	0	33	GF CEMENT BLOCK WORKS	11MAY88	21MAY88	28JUN88	7JUL88	40
217H016A91	9	9	0	34	GF CEMENT BLOCK WORKS	14MAY88	23MAY88	2JUL88	11JUL88	41
221H003A91	9	9	0	35	GF CEMENT BLOCK WORKS	16MAY88	25MAY88	5JUL88	14JUL88	42
221H002A91	9	9	0	36	GF CEMENT BLOCK WORKS	22MAY88	1JUN88	9JUL88	18JUL88	40
221H001A91	9	9	0	37	GF CEMENT BLOCK WORKS	28MAY88	7JUN88	12JUL88	21JUL88	38
220H009A91	9	9	0	38	GF CEMENT BLOCK WORKS	31MAY88	9JUN88	16JUL88	25JUL88	39
220H008A91	9	9	0	39	GF CEMENT BLOCK WORKS	5JUN88	14JUN88	19JUL88	28JUL88	38
220H006A91	9	9	0	40	GF CEMENT BLOCK WORKS	12JUN88	21JUN88	23JUL88	1AUG88	35
220H005A91	9	9	0	41	GF CEMENT BLOCK WORKS	14JUN88	23JUN88	26JUL88	6AUG88	36
220H004A91	9	9	0	42	GF CEMENT BLOCK WORKS	19JUN88	28JUN88	30JUL88	9AUG88	35
220H176A91	9	9	0	43	GF CEMENT BLOCK WORKS	26JUN88	5JUL88	2AUG88	13AUG88	32
220H177A91	9	9	0	44	GF CEMENT BLOCK WORKS	28JUN88	7JUL88	7AUG88	16AUG88	33
220H178A91	9	9	0	45	GF CEMENT BLOCK WORKS	3JUL88	12JUL88	10AUG88	20AUG88	32
215H037A91	9	9	0	46	GF CEMENT BLOCK WORKS	10JUL88	19JUL88	14AUG88	23AUG88	29
215H026A91	9	9	0	47	GF CEMENT BLOCK WORKS	12JUL88	21JUL88	17AUG88	28AUG88	30
215H025A91	9	9	0	48	GF CEMENT BLOCK WORKS	17JUL88	26JUL88	21AUG88	31AUG88	29
215H024A91	9	9	0	49	GF CEMENT BLOCK WORKS	24JUL88	2AUG88	2AUG88	4SEP88	26
215H023A91	9	9	0	50	GF CEMENT BLOCK WORKS	26JUL88	6AUG88	29AUG88	7SEP88	27
215H022A91	9	9	0	51	GF CEMENT BLOCK WORKS	31JUL88	10AUG88	1SEP88	11SEP88	26
211H043A92	12	8	33	01	FF CEMENT BLOCK WORKS	15FEB88	23FEB88	16FEB88	24FEB88	1
211H042A92	12	11	8	02	FF CEMENT BLOCK WORKS	15FEB88	28FEB88	17FEB88	1MAR88	2
211H174A92	12	12	0	03	FF CEMENT BLOCK WORKS	17FEB88	2MAR88	21FEB88	6MAR88	3
211H175A92	12	12	0	04	FF CEMENT BLOCK WORKS	21FEB88	6MAR88	27FEB88	10MAR88	4
211H044A92	12	12	0	05	FF CEMENT BLOCK WORKS	24FEB88	9MAR88	2MAR88	15MAR88	5
223H185A92	12	12	0	06	FF CEMENT BLOCK WORKS	1MAR88	14MAR88	7MAR88	20MAR88	5
223H186A92	12	12	0	07	FF CEMENT BLOCK WORKS	3MAR88	16MAR88	12MAR88	24MAR88	7
223H187A92	12	12	0	08	FF CEMENT BLOCK WORKS	7MAR88	20MAR88	16MAR88	30MAR88	8
214H030A92	12	12	0	09	FF CEMENT BLOCK WORKS	10MAR88	23MAR88	21MAR88	4APR88	9
214H029A92	12	12	0	10	FF CEMENT BLOCK WORKS	15MAR88	29MAR88	26MAR88	9APR88	9
214H028A92	12	12	0	11	FF CEMENT BLOCK WORKS	17MAR88	31MAR88	31MAR88	13APR88	11
214H031A92	12	12	0	12	FF CEMENT BLOCK WORKS	21MAR88	4APR88	5APR88	18APR88	12
216H020A92	12	12	0	13	FF CEMENT BLOCK WORKS	24MAR88	7APR88	10APR88	23APR88	13
216H019A92	12	12	0	14	FF CEMENT BLOCK WORKS	30MAR88	12APR88	14APR88	27APR88	13
216H018A92	12	12	0	15	FF CEMENT BLOCK WORKS	2APR88	14APR88	19APR88	2MAY88	15
218H015A92	12	12	0	16	FF CEMENT BLOCK WORKS	5APR88	18APR88	24APR88	7MAY88	16
218H014A92	12	12	0	17	FF CEMENT BLOCK WORKS	9APR88	21APR88	27APR88	10MAY88	16
218H013A92	12	12	0	18	FF CEMENT BLOCK WORKS	13APR88	26APR88	2MAY88	15MAY88	16
322H188A92	12	12	0	19	FF CEMENT BLOCK WORKS	16APR88	28APR88	5MAY88	18MAY88	17
322H189A92	12	12	0	20	FF CEMENT BLOCK WORKS	19APR88	2MAY88	9MAY88	22MAY88	17
322H190A92	12	12	0	21	FF CEMENT BLOCK WORKS	23APR88	5MAY88	12MAY88	25MAY88	17
216H021A92	12	12	0	22	FF CEMENT BLOCK WORKS	27APR88	10MAY88	16MAY88	29MAY88	16
219H010A92	12	12	0	23	FF CEMENT BLOCK WORKS	30APR88	12MAY88	19MAY88	2JUN88	17
220H007A92	12	12	0	24	FF CEMENT BLOCK WORKS	3MAY88	16MAY88	23MAY88	6JUN88	17
213H035A92	12	12	0	25	FF CEMENT BLOCK WORKS	7MAY88	19MAY88	26MAY88	9JUN88	17
213H036A92	12	12	0	26	FF CEMENT BLOCK WORKS	11MAY88	24MAY88	31MAY88	13JUN88	16
213H037A92	12	12	0	27	FF CEMENT BLOCK WORKS	14MAY88	26MAY88	4JUN88	16JUN88	17
213H032A92	12	12	0	28	FF CEMENT BLOCK WORKS	17MAY88	31MAY88	7JUN88	20JUN88	17
213H033A92	12	12	0	29	FF CEMENT BLOCK WORKS	21MAY88	4JUN88	11JUN88	23JUN88	17
213H034A92	12	12	0	30	FF CEMENT BLOCK WORKS	25MAY88	8JUN88	14JUN88	27JUN88	16
219H011A92	12	12	0	31	FF CEMENT BLOCK WORKS	28MAY88	11JUN88	18JUN88	30JUN88	17
219H012A92	12	12	0	32	FF CEMENT BLOCK WORKS	1JUN88	14JUN88	21JUN88	4JUL88	17
217H017A92	12	12	0	33	FF CEMENT BLOCK WORKS	5JUN88	18JUN88	25JUN88	7JUL88	17
217H016A92	12	12	0	34	FF CEMENT BLOCK WORKS	9JUN88	22JUN88	28JUN88	11JUL88	16
221H003A92	12	12	0	35	FF CEMENT BLOCK WORKS	12JUN88	25JUN88	2JUL88	14JUL88	17
221H002A92	12	12	0	36	FF CEMENT BLOCK WORKS	15JUN88	28JUN88	5JUL88	18JUL88	17
221H001A92	12	12	0	37	FF CEMENT BLOCK WORKS	20JUN88	3JUL88	9JUL88	21JUL88	16
220H009A92	12	12	0	38	FF CEMENT BLOCK WORKS	23JUN88	6JUL88	12JUL88	25JUL88	16
220H008A92	12	12	0	39	FF CEMENT BLOCK WORKS	27JUN88	10JUL88	16JUL88	28JUL88	16
220H006A92	12	12	0	40	FF CEMENT BLOCK WORKS	4JUL88	17JUL88	19JUL88	1AUG88	13
220H005A92	12	12	0	41	FF CEMENT BLOCK WORKS	6JUL88	19JUL88	23JUL88	6AUG88	14
220H004A92	12	12	0	42	FF CEMENT BLOCK WORKS	11JUL88	24JUL88	26JUL88	9AUG88	13
320H176A92	12	12	0	43	FF CEMENT BLOCK WORKS	18JUL88	31JUL88	30JUL88	13AUG88	10
320H177A92	12	12	0	44	FF CEMENT BLOCK WORKS	20JUL88	2AUG88	2AUG88	16AUG88	11
320H178A92	12	12	0	45	FF CEMENT BLOCK WORKS	25JUL88	8AUG88	7AUG88	20AUG88	10
215H027A92	12	12	0	46	FF CEMENT BLOCK WORKS	1AUG88	15AUG88	10AUG88	23AUG88	7
215H026A92	12	12	0	47	FF CEMENT BLOCK WORKS	3AUG88	17AUG88	14AUG88	28AUG88	8
215H025A92	12	12	0	48	FF CEMENT BLOCK WORKS	9AUG88	22AUG88	17AUG88	31AUG88	7
215H024A92	12	12	0	49	FF CEMENT BLOCK WORKS	16AUG88	30AUG88	21AUG88	4SEP88	4
215H023A92	12	12	0	50	FF CEMENT BLOCK WORKS	18AUG88	1SEP88	24AUG88	7SEP88	5
215H022A92	12	12	0	51	FF CEMENT BLOCK WORKS	23AUG88	6SEP88	29AUG88	11SEP88	4

Figure 9.19 - Case 2, Revised and Decelerated Schedule (Continued).

9.4 A Prison Project in California, USA.

The California Department of Corrections (CDC) is the owner of a state prison which is being constructed in Susanville, California. The prison construction cost is about \$250 millions. Construction work is divided into ten bid packages. Heery International, Inc. is the Construction Manager and Hill International, Inc. whom the author worked for is a subconsultant to Heery in charge of claims prevention. McCarthy Western Constructors is the main contractor of bid package three, which comprises housing facilities and thirteen identical guard towers along the circumference of the prison. This case study only concerns the guard towers.

9.4.1 Guard Towers, the Baseline Schedule

McCarthy had used logical relationships (start to start) between selected typical activities on each tower subnetwork to stagger the work of the repetitive towers. Alternatively the author deleted these interfaces between the tower subnetworks to apply CPM/LOB. Fig. 9.20 shows the logic diagram of a typical guard tower with the necessary non-repetitive pre-construction activities concerning submittals, approvals, fabrications and deliveries. While only one tower is shown in Fig. 9.20 linked to notice to proceed and delivery activities, notice to proceed and delivery activities were linked as predecessors to all the corresponding activities of each tower.

The towers are numbered 301 to 313 with the first digit referring to the bid package number (three), and the other two to the tower number. According to the general conditions of the contract, the towers are to be constructed in the sequence: 302, 303, 304, 305, 306, 301, 307, 308, 313, 309, 310, 311 and 312. Further, their construction is constrained by four milestones (MS) whose violation subjects McCarthy to liquidated damages. MS#8 mandates that towers 302, 303, 304, 305 and 306 start no earlier than workday 36 and finish no later than workday 252. Similarly MS#12 constrains towers 301 and 307; MS#18 constrains towers 308 and 313; and MS#23 constrains towers 309, 310, 311 and 312. In the CPM/LOB baseline schedule, the milestone requirements are represented by start-no-earlier-than and finish-no-later-than constraints. Fig. 9.21 shows the above information in a linear program associated with calendar dates. It is to be noted that the structural steel design, approval, fabrication and delivery will hold the structural steel erection of all the towers for varying periods if construction of the towers is to start hypothetically at its earliest. The project calendar is shown in Fig. 9.22.

The application of CPM/LOB shall adopt two completion rates as indicated in Fig. 9.21 by the symbolic dotted broken line. The time available for completion for MS#8 and MS#12 towers is $266 - 213 = 53$ workdays. This is confirmed by the total floats of MS#12 towers when the baseline schedule is run without resource leveling and as shown in Fig. 9.23 for tower 307 activities (G07 refers to guard tower 7 and the following two digits refer to the typical activity number). Total floats for MS#8 towers are 39 workdays, which are 14 days less than those of MS#12 towers because MS#8 has to be completed 14 days earlier than MS#12 ($266 - 252 = 14$). As shown by the dotted line between workdays 213 and 266 in Fig. 9.21, calculation of the rate of completions for both MS#8 and MS#12 towers based only on MS#12 tower floats shall satisfy the requirement of MS#8 towers to finish no later than workday 252. Table 9.4 shows the calculation of the minimum rate of squads of the activities of MS#8 and MS#12 towers to satisfy the imposed milestone dates. It is noted that the work duration of the squad of typical activity 56 PUNCHLIST is only twelve days which is less than the activity duration (15 days). This yields an overlap of three workdays between activities having the same squad working on them sequentially. Also, per column 10, this typical activity will control the pace of the progress since it has the lowest normalized independent rate.

After the number of squads on column 8 is entered into the CPM software as resource availability and leveling is performed per the contractual sequence, the early dates of tower 307 activities can serve as dates of a typical first unit for the LOB calculations for the rest of the towers (MS#18 & MS#23 towers). The towers of MS#18 and MS#23 are to progress at a lower completion rate than that of MS#8 and MS#12 towers and as shown earlier by the symbolic dotted broken line in Fig. 9.21.

Fig. 9.24 shows the leveled early finish dates of the activities of tower 307 associated with workday numbers. At this stage the latest completion dates for the last tower, number 312, are needed to contrast them with the leveled early finish dates of tower 307 to calculate the available time for completions for MS#18 and MS#23 tower activities. This can be easily obtained from the CPM software by running the schedule without leveling. Fig. 9.25 shows the latest completion dates of tower 312, the last tower.

In order to calculate the minimum number of squads required to complete MS#18 and MS#23 towers with lower rates of completions than those of the earlier towers, only typical activities 28, 44 and 56 need to be considered since all the other typical activities can not have fewer than the one squad they already have. However, to find which typical activities will control

the pace of the progress after tower 307, all typical activities shall be considered. Table 9.5 shows the calculation of the minimum quantity of squads required to complete MS#18 and MS#23 towers. It is noted that one squad for each typical activity is enough after tower 307 and that typical activity 56 PUNCHLIST will continue to control the pace of the progress since it has the lowest normalized independent rate: 0.083 tower per day per column 12. Based on that, typical activity 28, which had two squads until completion of tower 307, will have only one squad after the completion of tower 307 (after workday 204 per column 5 of Table 9.5). Similarly activity 44 will have one squad after workday 223 and activity 56 PUNCHLIST will have one squad after workday 249.

Fig. 9.26 shows the CPM/LOB baseline schedule for the thirteen towers after running resource leveling with an availability of one squad for all typical activities but two then one squad for typical activities 28, 44 and 56, hence varying rates. The numbers under the column titled CODE are the priority codes. All milestones are satisfied and the completion is on April 13, 1995 which is ahead of May 22, 1995 due to the rounding up of the squad quantities and to the fact that two SQ56's were working partially concurrent on typical activity 56 PUNCHLIST on towers 307 and 308 before day 249 when SQ56 availability was two. As expected the critical path began on the time-critical non-repetitive structural steel activities and concluded with the resource-critical, typical activity 56. In between, it passed through time-critical activities on the first tower in sequence, tower 302. Fig. 9.27 shows the histograms of the squads of selected typical activities. Vertical sight lines are drawn at intervals of one week. It is obvious that work continuity for the squads was well maintained.

9.4.2 Guard Towers, the Updated Schedule

McCarthy did schedule updates on the 18th of each month. The author took the actual progress data as of December 18, 1994 and applied it to the baseline schedule to determine the status of the progress based on the squad quantities calculated for the baseline schedule. After scheduling and leveling, it was found that the towers had seriously overrun all their milestones. Fig. 9.28 depicts that showing only uncompleted activities. No significant changes of sequence were noted.

Fig. 9.29 shows four progress regularity charts, one against each milestone. The following terminal tower dates were contrasted with their corresponding baseline dates to prepare

these charts: tower 306 for MS#8, tower 307 for MS#12, tower 313 for MS#18, and tower 312 for MS#23. Three groups of typical activities could be identified. Typical activities 02-12 were between their baseline early and late dates on the first two milestones then ahead of their early dates of the last two milestones. Typical activities 14-26 while were behind the first two milestones, were somewhat between their baseline early and late dates of the last two milestones. This should encourage raising the rates of completions of the above two groups of activities relevant only to the first two milestones. The third group of typical activities, 28-56, was consistently behind its baselines throughout the four milestones and therefore should be expedited. Examining the regularity charts along with the logic diagram can identify serious bottlenecks of progress. The start of typical activity 16, which is a predecessor to 14, was originally delayed by the delivery of structural steel. It is now a bottleneck. Typical activity 28 is another bottleneck because it did not start on time.

9.4.3 Guard Towers, The Accelerated Schedule

It is necessary in such a situation to accelerate the work by choosing a realistic target completion date and calculating the required quantities of squads for each typical activity to achieve it. The target completion date chosen by the author was June 22, 1994 (workday 363), one month after the original completion date of the last tower. Further, it is assumed that the sequence of the towers was to incur the following arbitrary changes: towers 308 and 313 switch sequence, and towers 309 and 311 also switch sequence. These changes do not compromise satisfying any contractual milestone. The new sequence is therefore: 302, 303, 304, 305, 306, 301, 307, 313, 308, 311, 310, 309 and 312.

Fig. 9.30 lists the uncompleted repetitive activities with their new sequence codes, EF dates, LF dates, and the equivalent workdays. These dates are based on a June 22, 1995 imposed finish target date and resulted from running time scheduling without resource leveling. Obviously, within each typical activity, the difference between the earliest early finish and the latest late finish represents the available time for completions for that typical activity.

Table 9.6 is based on the workday numbers of Fig. 9.30 and shows the calculation of the minimum quantity of squads required to achieve the new target. Based on the independent normalized rate, typical activities 32, 50, 52, 54, and 56 will be resource-critical activities and will control the pace of the progress. The rounded quantities of squads in column 12 are entered

into the CPM software and time scheduling then resource leveling are performed to get the accelerated schedule.

Fig. 9.31 shows the accelerated schedule with a projected completion exactly on June 22, 1995 because at least one pacing typical activity had an exact whole number of quantity of squads and did not need rounding up. The new sequence is followed and the critical path flows through the fabrication and delivery of windows, non-repetitive activities F122 and D122; then through the typical activities identified earlier. Typical activities 32, 50, 52 and 54 are resource-critical therefore controlling the pace of the project. Additionally, typical activities 44 and 46 are critical because they are bound between typical activities 32 and 50 and had no float on each tower subnetwork. Typical activity 56, which has four squads, has only priorities 01, 05, 09, and 13 as resource-critical (1st squad) since the other priorities are not constrained in the schedule to complete gradually before June 22, 1995. Had the quantity of squads of this last typical activity been divisible by the number of towers, all priorities would have been resource-critical with zero float. Of course typical activity 56 has to be performed according to the early dates to lessen liquidated damages.

9.4.4 Guard Towers, Features Validated

In this case study the following additional features of CPM/LOB have been emphasized and validated as superior characteristics over those provided by the current applications on planning and scheduling repetitive projects:

1. Non-repetitive activities can be readily and effectively incorporated in CPM/LOB. This was demonstrated by the submittal and approval activities and constitutes an advantage over the LOB technique and the Linear Scheduling Methods which do not calculate float and are not quickly adjustable as CPM/LOB.
2. In CPM/LOB, varying rates of completions throughout the project duration can be effected by varying the quantity of available resources. Each of typical activities 28, 44 and 56 had two rates of completions in the baseline schedule.

Figure 9.20 - Case 3, Typical Logic Diagram.

Submittals, Approvals, Fabrications & Deliveries

Submittals, Approvals, Fabrications & Deliveries

Figure 9.20 - Case 3, Typical Logic Diagram (Continued).

Figure 9.21 - Case 3, Linear Program of Guard Towers.

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER				BID PACKAGE 3 - HOUSING & GUARD TWRS	
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR				DATA DATE 18JAN94	START DATE 18JAN94
PAGE NO. 1							
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY							1JAN94 NO WORK
CAL= 2 7 DAY							-16
CAL= 1 5 WORK DAY	2JAN94 NO WORK	3JAN94 -9	4JAN94 -8	5JAN94 -7	6JAN94 -6	7JAN94 -5	8JAN94 NO WORK
CAL= 2 7 DAY	-15	-14	-13	-12	-11	-10	-9
CAL= 1 5 WORK DAY	9JAN94 NO WORK	10JAN94 -4	11JAN94 -3	12JAN94 -2	13JAN94 -1	14JAN94 0	15JAN94 NO WORK
CAL= 2 7 DAY	-8	-7	-6	-5	-4	-3	-2
CAL= 1 5 WORK DAY	16JAN94 NO WORK	17JAN94 NO WORK	18JAN94 1	19JAN94 2	20JAN94 3	21JAN94 4	22JAN94 NO WORK
CAL= 2 7 DAY	-1	0	1	2	3	4	5
CAL= 1 5 WORK DAY	23JAN94 NO WORK	24JAN94 5	25JAN94 6	26JAN94 7	27JAN94 8	28JAN94 9	29JAN94 NO WORK
CAL= 2 7 DAY	6	7	8	9	10	11	12
CAL= 1 5 WORK DAY	30JAN94 NO WORK	31JAN94 10					
CAL= 2 7 DAY	13	14					
CAL= 1 5 WORK DAY			1FEB94 11	2FEB94 12	3FEB94 13	4FEB94 14	5FEB94 NO WORK
CAL= 2 7 DAY			15	16	17	18	19
CAL= 1 5 WORK DAY	6FEB94 NO WORK	7FEB94 15	8FEB94 16	9FEB94 17	10FEB94 18	11FEB94 19	12FEB94 NO WORK
CAL= 2 7 DAY	20	21	22	23	24	25	26
CAL= 1 5 WORK DAY	13FEB94 NO WORK	14FEB94 20	15FEB94 21	16FEB94 22	17FEB94 23	18FEB94 24	19FEB94 NO WORK
CAL= 2 7 DAY	27	28	29	30	31	32	33
CAL= 1 5 WORK DAY	20FEB94 NO WORK	21FEB94 25	22FEB94 26	23FEB94 27	24FEB94 28	25FEB94 29	26FEB94 NO WORK
CAL= 2 7 DAY	34	35	36	37	38	39	40

Figure 9.22 - Case 3, Project Calendar.

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER				BID PACKAGE 3 - HOUSING & GUARD TWRS	
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR				DATA DATE 18JAN94	START DATE 18JAN94
PAGE NO. 2							
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	27FEB94 NO WORK	28FEB94 30					
CAL= 2 7 DAY	41	42					
CAL= 1 5 WORK DAY			1MAR94 31	2MAR94 32	3MAR94 33	4MAR94 34	5MAR94 NO WORK
CAL= 2 7 DAY			43	44	45	46	47
CAL= 1 5 WORK DAY	6MAR94 NO WORK	7MAR94 35	8MAR94 36	9MAR94 37	10MAR94 38	11MAR94 39	12MAR94 NO WORK
CAL= 2 7 DAY	48	49	50	51	52	53	54
CAL= 1 5 WORK DAY	13MAR94 NO WORK	14MAR94 40	15MAR94 41	16MAR94 42	17MAR94 43	18MAR94 44	19MAR94 NO WORK
CAL= 2 7 DAY	55	56	57	58	59	60	61
CAL= 1 5 WORK DAY	20MAR94 NO WORK	21MAR94 45	22MAR94 46	23MAR94 47	24MAR94 48	25MAR94 49	26MAR94 NO WORK
CAL= 2 7 DAY	62	63	64	65	66	67	68
CAL= 1 5 WORK DAY	27MAR94 NO WORK	28MAR94 50	29MAR94 51	30MAR94 52	31MAR94 53		
CAL= 2 7 DAY	69	70	71	72	73		
CAL= 1 5 WORK DAY						1APR94 54	2APR94 NO WORK
CAL= 2 7 DAY						74	75
CAL= 1 5 WORK DAY	3APR94 NO WORK	4APR94 55	5APR94 56	6APR94 57	7APR94 58	8APR94 59	9APR94 NO WORK
CAL= 2 7 DAY	76	77	78	79	80	81	82
CAL= 1 5 WORK DAY	10APR94 NO WORK	11APR94 60	12APR94 61	13APR94 62	14APR94 63	15APR94 64	16APR94 NO WORK
CAL= 2 7 DAY	83	84	85	86	87	88	89
CAL= 1 5 WORK DAY	17APR94 NO WORK	18APR94 65	19APR94 66	20APR94 67	21APR94 68	22APR94 69	23APR94 NO WORK
CAL= 2 7 DAY	90	91	92	93	94	95	96

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER				BID PACKAGE 3 - HOUSING & GUARD TWRs	
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR				DATA DATE 18JAN94	START DATE 18JAN94
		PAGE NO. 3					
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	24APR94 NO WORK	25APR94 70	26APR94 71	27APR94 72	28APR94 73	29APR94 74	30APR94 NO WORK
CAL= 2 7 DAY	97	98	99	100	101	102	103
CAL= 1 5 WORK DAY	1MAY94 NO WORK	2MAY94 75	3MAY94 76	4MAY94 77	5MAY94 78	6MAY 4 79	7MAY94 NO WORK
CAL= 2 7 DAY	104	105	106	107	108	109	110
CAL= 1 5 WORK DAY	8MAY94 NO WORK	9MAY94 80	10MAY94 81	11MAY94 82	12MAY94 83	13MAY94 84	14MAY94 NO WORK
CAL= 2 7 DAY	111	112	113	114	115	116	117
CAL= 1 5 WORK DAY	15MAY94 NO WORK	16MAY94 85	17MAY94 86	18MAY94 87	19MAY94 88	20MAY94 89	21MAY94 NO WORK
CAL= 2 7 DAY	118	119	120	121	122	123	124
CAL= 1 5 WORK DAY	22MAY94 NO WORK	23MAY94 90	24MAY94 91	25MAY94 92	26MAY94 93	27MAY94 94	28MAY94 NO WORK
CAL= 2 7 DAY	125	126	127	128	129	130	131
CAL= 1 5 WORK DAY	29MAY94 NO WORK	30MAY94 NO WORK	31MAY94 95				
CAL= 2 7 DAY	132	133	134				
CAL= 1 5 WORK DAY				1JUN94 96	2JUN94 97	3JUN94 98	4JUN94 NO WORK
CAL= 2 7 DAY				135	136	137	138
CAL= 1 5 WORK DAY	5JUN94 NO WORK	6JUN94 99	7JUN94 100	8JUN94 101	9JUN94 102	10JUN94 103	11JUN94 NO WORK
CAL= 2 7 DAY	139	140	141	142	143	144	145
CAL= 1 5 WORK DAY	12JUN94 NO WORK	13JUN94 104	14JUN94 105	15JUN94 106	16JUN94 107	17JUN94 108	18JUN94 NO WORK
CAL= 2 7 DAY	146	147	148	149	150	151	152
CAL= 1 5 WORK DAY	19JUN94 NO WORK	20JUN94 109	21JUN94 110	22JUN94 111	23JUN94 112	24JUN94 113	25JUN94 NO WORK
CAL= 2 7 DAY	153	154	155	156	157	158	159

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER				BID PACKAGE 3 - HOUSING & GUARD TWRS	
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR				DATA DATE 18JAN94	START DATE 18JAN94
		PAGE NO. 4					
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	26JUN94 NO WORK	27JUN94 114	28JUN94 115	29JUN94 116	30JUN94 117		
CAL= 2 7 DAY	160	161	162	163	164		
CAL= 1 5 WORK DAY						1JUL94 118	2JUL94 NO WORK
CAL= 2 7 DAY						165	166
CAL= 1 5 WORK DAY	3JUL94 NO WORK	4JUL94 NO WORK	5JUL94 119	6JUL94 120	7JUL94 121	8JUL94 122	9JUL94 NO WORK
CAL= 2 7 DAY	167	168	169	170	171	172	173
CAL= 1 5 WORK DAY	10JUL94 NO WORK	11JUL94 123	12JUL94 124	13JUL94 125	14JUL94 126	15JUL94 127	16JUL94 NO WORK
CAL= 2 7 DAY	174	175	176	177	178	179	180
CAL= 1 5 WORK DAY	17JUL94 NO WORK	18JUL94 128	19JUL94 129	20JUL94 130	21JUL94 131	22JUL94 132	23JUL94 NO WORK
CAL= 2 7 DAY	181	182	183	184	185	186	187
CAL= 1 5 WORK DAY	24JUL94 NO WORK	25JUL94 133	26JUL94 134	27JUL94 135	28JUL94 136	29JUL94 137	30JUL94 NO WORK
CAL= 2 7 DAY	188	189	190	191	192	193	194
CAL= 1 5 WORK DAY	31JUL94 NO WORK						
CAL= 2 7 DAY	195						
CAL= 1 5 WORK DAY		1AUG94 138	2AUG94 139	3AUG94 140	4AUG94 141	5AUG94 142	6AUG94 NO WORK
CAL= 2 7 DAY		196	197	198	199	200	201
CAL= 1 5 WORK DAY	7AUG94 NO WORK	8AUG94 143	9AUG94 144	10AUG94 145	11AUG94 146	12AUG94 147	13AUG94 NO WORK
CAL= 2 7 DAY	202	203	204	205	206	207	208
CAL= 1 5 WORK DAY	14AUG94 NO WORK	15AUG94 148	16AUG94 149	17AUG94 150	18AUG94 151	19AUG94 152	20AUG94 NO WORK
CAL= 2 7 DAY	209	210	211	212	213	214	215

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER				BID PACKAGE 3 - HOUSING & GUARD TWRS	
REPORT DATE 27JUN95 15:35	PROJECT CALENDAR				DATA DATE 18JAN94	START DATE 18JAN94	
PAGE NO. 5							
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	21AUG94 NO WORK	22AUG94 153	23AUG94 154	24AUG94 155	25AUG94 156	26AUG94 157	27AUG94 NO WORK
CAL= 2 7 DAY	216	217	218	219	220	221	222
CAL= 1 5 WORK DAY	28AUG94 NO WORK	29AUG94 158	30AUG94 159	31AUG94 160			
CAL= 2 7 DAY	223	224	225	226			
CAL= 1 5 WORK DAY					1SEP94 161	2SEP94 162	3SEP94 NO WORK
CAL= 2 7 DAY					227	228	229
CAL= 1 5 WORK DAY	4SEP94 NO WORK	5SEP94 NO WORK	6SEP94 163	7SEP94 164	8SEP94 165	9SEP94 166	10SEP94 NO WORK
CAL= 2 7 DAY	230	231	232	233	234	235	236
CAL= 1 5 WORK DAY	11SEP94 NO WORK	12SEP94 167	13SEP94 168	14SEP94 169	15SEP94 170	16SEP94 171	17SEP94 NO WORK
CAL= 2 7 DAY	237	238	239	240	241	242	243
CAL= 1 5 WORK DAY	18SEP94 NO WORK	19SEP94 172	20SEP94 173	21SEP94 174	22SEP94 175	23SEP94 176	24SEP94 NO WORK
CAL= 2 7 DAY	244	245	246	247	248	249	250
CAL= 1 5 WORK DAY	25SEP94 NO WORK	26SEP94 177	27SEP94 178	28SEP94 179	29SEP94 180	30SEP94 181	
CAL= 2 7 DAY	251	252	253	254	255	256	
CAL= 1 5 WORK DAY							1OCT94 NO WORK
CAL= 2 7 DAY							257
CAL= 1 5 WORK DAY	2OCT94 NO WORK	3OCT94 182	4OCT94 183	5OCT94 184	6OCT94 185	7OCT94 186	8OCT94 NO WORK
CAL= 2 7 DAY	258	259	260	261	262	263	264
CAL= 1 5 WORK DAY	9OCT94 NO WORK	10OCT94 187	11OCT94 188	12OCT94 189	13OCT94 190	14OCT94 191	15OCT94 NO WORK
CAL= 2 7 DAY	265	266	267	268	269	270	271

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER			BID PACKAGE 3 - HOUSING & GUARD TOWNS		
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR			DATA DATE 18JAN94		START DATE 18JAN94
		PAGE NO. 6					
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	16OCT94 NO WORK	17OCT94 192	18OCT94 193	19OCT94 194	20OCT94 195	21OCT94 196	22OCT94 NO WORK
CAL= 2 7 DAY	272	273	274	275	276	277	278
CAL= 1 5 WORK DAY	23OCT94 NO WORK	24OCT94 197	25OCT94 198	26OCT94 199	27OCT94 200	28OCT94 201	29OCT94 NO WORK
CAL= 2 7 DAY	279	280	281	282	283	284	285
CAL= 1 5 WORK DAY	30OCT94 NO WORK	31OCT94 202					
CAL= 2 7 DAY	286	287					
CAL= 1 5 WORK DAY			1NOV94 203	2NOV94 204	3NOV94 205	4NOV94 206	5NOV94 NO WORK
CAL= 2 7 DAY			288	289	290	291	292
CAL= 1 5 WORK DAY	6NOV94 NO WORK	7NOV94 207	8NOV94 208	9NOV94 209	10NOV94 210	11NOV94 NO WORK	12NOV94 NO WORK
CAL= 2 7 DAY	293	294	295	296	297	298	299
CAL= 1 5 WORK DAY	13NOV94 NO WORK	14NOV94 211	15NOV94 212	16NOV94 213	17NOV94 214	18NOV94 215	19NOV94 NO WORK
CAL= 2 7 DAY	300	301	302	303	304	305	306
CAL= 1 5 WORK DAY	20NOV94 NO WORK	21NOV94 216	22NOV94 217	23NOV94 218	24NOV94 NO WORK	25NOV94 NO WORK	26NOV94 NO WORK
CAL= 2 7 DAY	307	308	309	310	311	312	313
CAL= 1 5 WORK DAY	27NOV94 NO WORK	28NOV94 219	29NOV94 220	30NOV94 221			
CAL= 2 7 DAY	314	315	316	317			
CAL= 1 5 WORK DAY					1DEC94 222	2DEC94 223	3DEC94 NO WORK
CAL= 2 7 DAY					318	319	320
CAL= 1 5 WORK DAY	4DEC94 NO WORK	5DEC94 224	6DEC94 225	7DEC94 226	8DEC94 227	9DEC94 228	10DEC94 NO WORK
CAL= 2 7 DAY	321	322	323	324	325	326	327

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE			PRIMAVERA PROJECT PLANNER			BID PACKAGE 3 - HOUSING & GUARD TWRS	
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR			DATA DATE 18JAN94	START DATE 18JAN94	
PAGE NO. 7							
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	11DEC94 NO WORK	12DEC94 229	13DEC94 230	14DEC94 231	15DEC94 232	16DEC94 233	17DEC94 NO WORK
CAL= 2 7 DAY	328	329	330	331	332	333	334
CAL= 1 5 WORK DAY	18DEC94 NO WORK	19DEC94 234	20DEC94 235	21DEC94 236	22DEC94 237	23DEC94 238	24DEC94 NO WORK
CAL= 2 7 DAY	335	336	337	338	339	340	341
CAL= 1 5 WORK DAY	25DEC94 NO WORK	26DEC94 NO WORK	27DEC94 239	28DEC94 240	29DEC94 241	30DEC94 242	31DEC94 NO WORK
CAL= 2 7 DAY	342	343	344	345	346	347	348
CAL= 1 5 WORK DAY	1JAN95 NO WORK	2JAN95 NO WORK	3JAN95 243	4JAN95 244	5JAN95 245	6JAN95 246	7JAN95 NO WORK
CAL= 2 7 DAY	349	350	351	352	353	354	355
CAL= 1 5 WORK DAY	8JAN95 NO WORK	9JAN95 247	10JAN95 248	11JAN95 249	12JAN95 250	13JAN95 251	14JAN95 NO WORK
CAL= 2 7 DAY	356	357	358	359	360	361	362
CAL= 1 5 WORK DAY	15JAN95 NO WORK	16JAN95 NO WORK	17JAN95 252	18JAN95 253	19JAN95 254	20JAN95 255	21JAN95 NO WORK
CAL= 2 7 DAY	363	364	365	366	367	368	369
CAL= 1 5 WORK DAY	22JAN95 NO WORK	23JAN95 256	24JAN95 257	25JAN95 258	26JAN95 259	27JAN95 260	28JAN95 NO WORK
CAL= 2 7 DAY	370	371	372	373	374	375	376
CAL= 1 5 WORK DAY	29JAN95 NO WORK	30JAN95 261	31JAN95 262				
CAL= 2 7 DAY	377	378	379				
CAL= 1 5 WORK DAY				1FEB95 263	2FEB95 264	3FEB95 265	4FEB95 NO WORK
CAL= 2 7 DAY				380	381	382	383
CAL= 1 5 WORK DAY	5FEB95 NO WORK	6FEB95 266	7FEB95 267	8FEB95 268	9FEB95 269	10FEB95 270	11FEB95 NO WORK
CAL= 2 7 DAY	384	385	386	387	388	389	390

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER				BID PACKAGE 3 - HOUSING & GUARD THRS	
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR				DATA DATE 18JAN94	START DATE 18JAN94
		PAGE NO. 8					
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	12FEB95 NO WORK	13FEB95 271	14FEB95 272	15FEB95 273	16FEB95 274	17FEB95 275	18FEB95 NO WORK
CAL= 2 7 DAY	391	392	393	394	395	396	397
CAL= 1 5 WORK DAY	19FEB95 NO WORK	20FEB95 276	21FEB95 277	22FEB95 278	23FEB95 279	24FEB95 280	25FEB95 NO WORK
CAL= 2 7 DAY	398	399	400	401	402	403	404
CAL= 1 5 WORK DAY	26FEB95 NO WORK	27FEB95 281	28FEB95 282				
CAL= 2 7 DAY	405	406	407				
CAL= 1 5 WORK DAY				1MAR95 283	2MAR95 284	3MAR95 285	4MAR95 NO WORK
CAL= 2 7 DAY				408	409	410	411
CAL= 1 5 WORK DAY	5MAR95 NO WORK	6MAR95 286	7MAR95 287	8MAR95 288	9MAR95 289	10MAR95 290	11MAR95 NO WORK
CAL= 2 7 DAY	412	413	414	415	416	417	418
CAL= 1 5 WORK DAY	12MAR95 NO WORK	13MAR95 291	14MAR95 292	15MAR95 293	16MAR95 294	17MAR95 295	18MAR95 NO WORK
CAL= 2 7 DAY	419	420	421	422	423	424	425
CAL= 1 5 WORK DAY	19MAR95 NO WORK	20MAR95 296	21MAR95 297	22MAR95 298	23MAR95 299	24MAR95 300	25MAR95 NO WORK
CAL= 2 7 DAY	426	427	428	429	430	431	432
CAL= 1 5 WORK DAY	26MAR95 NO WORK	27MAR95 301	28MAR95 302	29MAR95 303	30MAR95 304	31MAR95 305	
CAL= 2 7 DAY	433	434	435	436	437	438	
CAL= 1 5 WORK DAY							1APR95 NO WORK
CAL= 2 7 DAY							439
CAL= 1 5 WORK DAY	2APR95 NO WORK	3APR95 306	4APR95 307	5APR95 308	6APR95 309	7APR95 310	8APR95 NO WORK
CAL= 2 7 DAY	440	441	442	443	444	445	446

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE

PRIMAVERA PROJECT PLANNER

BID PACKAGE 3 - HOUSING & GUARD TWRs

REPORT DATE 27JUN95
15:35

PROJECT CALENDAR

DATA DATE 18JAN94

START DATE 18JAN94

PAGE NO. 9

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	9APR95 NO WORK	10APR95 311	11APR95 312	12APR95 313	13APR95 314	14APR95 315	15APR95 NO WORK
CAL= 2 7 DAY	447	448	449	450	451	452	453
CAL= 1 5 WORK DAY	16APR95 NO WORK	17APR95 316	18APR95 317	19APR95 318	20APR95 319	21APR95 320	22APR95 NO WORK
CAL= 2 7 DAY	454	455	456	457	458	459	460
CAL= 1 5 WORK DAY	23APR95 NO WORK	24APR95 321	25APR95 322	26APR95 323	27APR95 324	28APR95 325	29APR95 NO WORK
CAL= 2 7 DAY	461	462	463	464	465	466	467
CAL= 1 5 WORK DAY	30APR95 NO WORK						
CAL= 2 7 DAY	468						
CAL= 1 5 WORK DAY		1MAY95 326	2MAY95 327	3MAY95 328	4MAY95 329	5MAY95 330	6MAY95 NO WORK
CAL= 2 7 DAY		469	470	471	472	473	474
CAL= 1 5 WORK DAY	7MAY95 NO WORK	8MAY95 331	9MAY95 332	10MAY95 333	11MAY95 334	12MAY95 335	13MAY95 NO WORK
CAL= 2 7 DAY	475	476	477	478	479	480	481
CAL= 1 5 WORK DAY	14MAY95 NO WORK	15MAY95 336	16MAY95 337	17MAY95 338	18MAY95 339	19MAY95 340	20MAY95 NO WORK
CAL= 2 7 DAY	482	483	484	485	486	487	488
CAL= 1 5 WORK DAY	21MAY95 NO WORK	22MAY95 341	23MAY95 342	24MAY95 343	25MAY95 344	26MAY95 345	27MAY95 NO WORK
CAL= 2 7 DAY	489	490	491	492	493	494	495
CAL= 1 5 WORK DAY	28MAY95 NO WORK	29MAY95 NO WORK	30MAY95 346	31MAY95 347			
CAL= 2 7 DAY	496	497	498	499			
CAL= 1 5 WORK DAY					1JUN95 348	2JUN95 349	3JUN95 NO WORK
CAL= 2 7 DAY					500	501	502

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE		PRIMAVERA PROJECT PLANNER				BID PACKAGE 3 - HOUSING & GUARD TWRs	
REPORT DATE 27JUN95 15:35		PROJECT CALENDAR				DATA DATE 18JAN94	START DATE 18JAN94
		PAGE NO. 10					
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAL= 1 5 WORK DAY	4JUN95 NO WORK	5JUN95 350	6JUN95 351	7JUN95 352	8JUN95 353	9JUN95 354	10JUN95 NO WORK
CAL= 2 7 DAY	503	504	505	506	507	508	509
CAL= 1 5 WORK DAY	11JUN95 NO WORK	12JUN95 355	13JUN95 356	14JUN95 357	15JUN95 358	16JUN95 359	17JUN95 NO WORK
CAL= 2 7 DAY	510	511	512	513	514	515	516
CAL= 1 5 WORK DAY	18JUN95 NO WORK	19JUN95 360	20JUN95 361	21JUN95 362	22JUN95 363	23JUN95 364	24JUN95 NO WORK
CAL= 2 7 DAY	517	518	519	520	521	522	523
CAL= 1 5 WORK DAY	25JUN95 NO WORK	26JUN95 365	27JUN95 366	28JUN95 367	29JUN95 368	30JUN95 369	
CAL= 2 7 DAY	524	525	526	527	528	529	
CAL= 1 5 WORK DAY							1JUL95 NO WORK
CAL= 2 7 DAY							530
CAL= 1 5 WORK DAY	2JUL95 NO WORK	3JUL95 370	4JUL95 NO WORK	5JUL95 371	6JUL95 372	7JUL95 373	8JUL95 NO WORK
CAL= 2 7 DAY	531	532	533	534	535	536	537
CAL= 1 5 WORK DAY	9JUL95 NO WORK	10JUL95 374	11JUL95 375	12JUL95 376	13JUL95 377	14JUL95 378	15JUL95 NO WORK
CAL= 2 7 DAY	538	539	540	541	542	543	544
CAL= 1 5 WORK DAY	16JUL95 NO WORK	17JUL95 379	18JUL95 380	19JUL95 381	20JUL95 382	21JUL95 383	22JUL95 NO WORK
CAL= 2 7 DAY	545	546	547	548	549	550	551
CAL= 1 5 WORK DAY	23JUL95 NO WORK	24JUL95 384	25JUL95 385	26JUL95 386	27JUL95 387	28JUL95 388	29JUL95 NO WORK
CAL= 2 7 DAY	552	553	554	555	556	557	558
CAL= 1 5 WORK DAY	30JUL95 NO WORK	31JUL95 389					
CAL= 2 7 DAY	559	560					

Figure 9.22 - Case 3, Project Calendar (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE PRIMAVERA PROJECT PLANNER BID PACKAGE 3 - GUARD TOWER
 REPORT DATE 16JUL95 RUN NO. 46 ***** M C C A R T H Y ***** START DATE 18JAN94 FIN DATE 22MAY95*
 18:17
 Guard tower 307 activities by activity ID DATA DATE 18JAN94 PAGE No. 1

ACTIVITY ID	ORIG	REM	DUR	CAL	%	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	LATE START	LATE FINISH	TOTAL FLOAT
G0702	1	1	1	0		SUBGRADE VERIFICATION	8MAR94*	8MAR94	27OCT94	27OCT94	164
G0704	2	2	1	0		BUILDING LAYOUT	9MAR94	10MAR94	28OCT94	31OCT94	164
G070	1	1	1	0		EXCAVATE FOOTING	11MAR94	11MAR94	1NOV94	1NOV94	164
G0708	1	1	1	0		ELECTRICAL UNDERGROUND	14MAR94	14MAR94	2NOV94	2NOV94	164
G0710	2	2	1	0		REBAR AT FOOTING	15MAR94	16MAR94	3NOV94	4NOV94	164
G0712	3	3	1	0		FORM/POUR FOOTING	17MAR94	21MAR94	7NOV94	9NOV94	164
G0714	2	2	1	0		PLUMBING UNDERGROUND	30AUG94	31AUG94	16NOV94	17NOV94	54
G0716	2	2	1	0		STRUCTURAL TOWER STEEL ERECTION	26AUG94	29AUG94	10NOV94	14NOV94	53
G0718	2	2	1	0		REBAR AT SOG	1SEP94	2SEP94	18NOV94	21NOV94	54
G0720	2	2	1	0		METAL DECK INSTALLATION	30AUG94	31AUG94	15NOV94	16NOV94	53
G0722	2	2	1	0		FORM/POUR SOG	6SEP94	7SEP94	22NOV94	23NOV94	54
G0724	4	4	1	0		SLAB ON METAL DECK	1SEP94	7SEP94	17NOV94	22NOV94	53
G0726	2	2	1	0		BACKFILL AT SOG	8SEP94	9SEP94	28NOV94	29NOV94	54
G0728	10	10	1	0		METAL ROOF/SIDING	8SEP94	21SEP94	23NOV94	8DEC94	53
G0730	2	2	1	0		INSTALL HOLLOW METAL	22SEP94	23SEP94	9DEC94	12DEC94	53
G0732	3	3	1	0		INSTALL ALUM FRAMES/GLASS/GLAZING	22SEP94	26SEP94	19DEC94	21DEC94	59
G0734	2	2	1	0		INTERIOR FRAMING	26SEP94	27SEP94	13DEC94	14DEC94	53
G0736	2	2	1	0		PLUMBING ROUGH-IN	28SEP94	29SEP94	20DEC94	21DEC94	56
G0738	2	2	1	0		INSTALL DOORS/HARDWARE	28SEP94	29SEP94	5JAN95	6JAN95	66
G0740	4	4	1	0		MECHANICAL ROUGH-IN	28SEP94	30OCT94	16DEC94	21DEC94	54
G0742	5	5	1	0		ELECTRICAL ROUGH-IN	28SEP94	40OCT94	15DEC94	21DEC94	53
G0744	10	10	1	0		INTERIOR FINISHES	5OCT94	18OCT94	22DEC94	6JAN95	53
G0746	2	2	1	0		PAINT	19OCT94	20OCT94	9JAN95	10JAN95	53
G0750	3	3	1	0		MECHANICAL FINISH	21OCT94	25OCT94	11JAN95	13JAN95	53
G0752	3	3	1	0		PLUMBING FINISH	21OCT94	25OCT94	11JAN95	13JAN95	53
G0754	3	3	1	0		ELECTRICAL FINISH	21OCT94	25OCT94	11JAN95	13JAN95	53
G0756	15	15	1	0		PUNCHLIST	26OCT94	16NOV94	17JAN95	6FEB95*	53

Figure 9.23 - Case 3, Schedule of Tower 307 Showing T_{aa} for MS#8 & MS#12 towers under "Total Float" Column.

									Normalized
								Independent	Independent
			Resource	Taa	Rma	Sma	Sma	rate	rate
ACT ID	Activity title	Resource	duration	TF	(7-1) + (5)	(6) x (4)	rounded	(8) + (4)	(9) x 0.113 + (6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G0702	SUBGRADE VERIFICATION	SQ02	1	164	0.037	0.037	1	1.000	3.094
G0704	BUILDING LAYOUT	SQ04	2	164	0.037	0.073	1	0.500	1.547
G0706	EXCAVATE FOOTING	SQ06	1	164	0.037	0.037	1	1.000	3.094
G0708	ELECTRICAL UNDERGROUND	SQ08	1	164	0.037	0.037	1	1.000	3.094
G0710	REBAR AT FOOTING	SQ10	2	164	0.037	0.073	1	0.500	1.547
G0712	FORM/POUR FOOTING	SQ12	3	164	0.037	0.110	1	0.333	1.031
G0714	PLUMBING UNDERGROUND	SQ14	2	54	0.111	0.222	1	0.500	0.509
G0716	STRUCTURAL TOWER STEEL ERECTION	SQ16	2	53	0.113	0.226	1	0.500	0.500
G0718	REBAR AT SOG	SQ18	2	54	0.111	0.222	1	0.500	0.509
G0720	METAL DECK INSTALLATION	SQ20	2	53	0.113	0.226	1	0.500	0.500
G0722	FORM/POUR SOG	SQ22	2	54	0.111	0.222	1	0.500	0.509
G0724	SLAB ON METAL DECK	SQ24	4	53	0.113	0.453	1	0.250	0.250
G0726	BACKFILL AT SOG	SQ26	2	54	0.111	0.222	1	0.500	0.509
G0728	METAL ROOF/SIDING	SQ28	10	53	0.113	1.132	2	0.200	0.200
G0730	INSTALL HOLLOW METAL	SQ30	2	53	0.113	0.226	1	0.500	0.500
G0732	INSTALL ALUM FRAMES/GLASS/GLAZING	SQ32	3	59	0.102	0.305	1	0.333	0.371
G0734	INTERIOR FRAMING	SQ34	2	53	0.113	0.226	1	0.500	0.500
G0736	PLUMBING ROUGH-IN	SQ36	2	56	0.107	0.214	1	0.500	0.528
G0738	INSTALL DOORS/HARDWARE	SQ38	2	66	0.091	0.182	1	0.500	0.623
G0740	MECHANICAL ROUGH-IN	SQ40	4	54	0.111	0.444	1	0.250	0.255
G0742	ELECTRICAL ROUGH-IN	SQ42	5	53	0.113	0.566	1	0.200	0.200
G0744	INTERIOR FINISHES	SQ44	10	53	0.113	1.132	2	0.200	0.200
G0746	PAINT	SQ46	2	53	0.113	0.226	1	0.500	0.500
G0750	MECHANICAL FINISH	SQ50	3	53	0.113	0.340	1	0.333	0.333
G0752	PLUMBING FINISH	SQ52	3	53	0.113	0.340	1	0.333	0.333
G0754	ELECTRICAL FINISH	SQ54	3	53	0.113	0.340	1	0.333	0.333
G0756	PUNCHLIST	SQ56	12	53	0.113	1.358	2	0.167	0.167

Table 9.4 - Case 3, Calculation of Minimum Quantity of Resources to Complete MS#8 & MS#12 Towers.

CALIFORNIA STATE PRISON - SUSANVILLE	PRIMAVERA PROJECT PLANNER	BID PACKAGE 3 - GUARD TOWER
REPORT DATE 16JUL95 RUN NO. 53	***** M C C A R T H Y *****	START DATE 18JAN94 FIN DATE 22MAY95*
20:42		
Guard tower 307 activities by activity ID - leveled		DATA DATE 18JAN94 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REN DUR	CAL	%	ACTIVITY DESCRIPTION	SCHE	LEVELED EF
G0702	1	1	1	0	SUBGRADE VERIFICATION		16MAR94
G0704	2	2	1	0	WORKPERIOD BUILDING LAYOUT		42 28MAR94
G0706	1	1	1	0	WORKPERIOD EXCAVATE FOOTING		50 29MAR94
G0708	1	1	1	0	WORKPERIOD ELECTRICAL UNDERGROUND		51 30MAR94
G0710	2	2	1	0	WORKPERIOD REBAR AT FOOTING		52 1APR94
G0712	3	3	1	0	WORKPERIOD FORM/POUR FOOTING		54 14APR94
G0714	2	2	1	0	WORKPERIOD PLUMBING UNDERGROUND		63 19SEP94
G0716	2	2	1	0	WORKPERIOD STRUCTURAL TOWER STEEL ERECTION		172 15SEP94
G0718	2	2	1	0	WORKPERIOD REBAR AT SOG		170 21SEP94
G0720	2	2	1	0	WORKPERIOD METAL DECK INSTALLATION		174 19SEP94
G0722	2	2	1	0	WORKPERIOD FORM/POUR SOG		172 23SEP94
G0724	4	4	1	0	WORKPERIOD SLAB ON METAL DECK		176 11OCT94
G0726	2	2	1	0	WORKPERIOD BACKFILL AT SOG		188 27SEP94
G0728	10	10	1	0	WORKPERIOD METAL ROOF/SIDING		178 2NOV94
G0730	2	2	1	0	WORKPERIOD INSTALL HOLLOW METAL		204 4NOV94
G0732	3	3	1	0	WORKPERIOD INSTALL ALUM FRAMES/GLASS/GLAZING		206 7NOV94
G0734	2	2	1	0	WORKPERIOD INTERIOR FRAMING		207 8NOV94
G0736	2	2	1	0	WORKPERIOD PLUMBING ROUGH-IN		208 10NOV94
G0738	2	2	1	0	WORKPERIOD INSTALL DOORS/HARDWARE		210 10NOV94
G0740	4	4	1	0	WORKPERIOD MECHANICAL ROUGH-IN		210 15NOV94
G0742	5	5	1	0	WORKPERIOD ELECTRICAL ROUGH-IN		212 16NOV94
G0744	10	10	1	0	WORKPERIOD INTERIOR FINISHES		213 2DEC94
G0746	2	2	1	0	WORKPERIOD PAINT		223 6DEC94
G0750	3	3	1	0	WORKPERIOD MECHANICAL FINISH		225 9DEC94
G0752	3	3	1	0	WORKPERIOD PLUMBING FINISH		228 9DEC94
G0754	3	3	1	0	WORKPERIOD ELECTRICAL FINISH		228 9DEC94
G0756	15	15	1	0	WORKPERIOD PUNCHLIST		228 11JAN95
							249

Figure 9.24 - Case 3, Schedule of Tower 307 after Leveling Serves as a First Unit Schedule for Balance of Towers.

CALIFORNIA STATE PRISON - SUSANVILLE

PRIMAVERA PROJECT PLANNER

BID PACKAGE 3 - GUARD TOWER

REPORT DATE 16JUL95 RUN NO. 48

***** M C C A R T H Y *****

START DATE 18JAN94 FIN DATE 22MAY95*

19:15

Guard tower 312 activities by activity ID

DATA DATE 18JAN94 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	ACTIVITY DESCRIPTION	LATE FINISH
G1202	1	1	1	0	SUBGRADE VERIFICATION	17FEB95
				WORKPERIOD		275
G1204	2	2	1	0	BUILDING LAYOUT	21FEB95
				WORKPERIOD		277
G1206	1	1	1	0	EXCAVATE FOOTING	22FEB95
				WORKPERIOD		278
G1208	1	1	1	0	ELECTRICAL UNDERGROUND	23FEB95
				WORKPERIOD		279
G1210	2	2	1	0	REBAR AT FOOTING	27FEB95
				WORKPERIOD		281
G1212	3	3	1	0	FORM/POUR FOOTING	28MAR95
				WORKPERIOD		284
G1214	2	2	1	0	PLUMBING UNDERGROUND	9MAR95
				WORKPERIOD		289
G1216	2	2	1	0	STRUCTURAL TOWER STEEL ERECTION	6MAR95
				WORKPERIOD		286
G1218	2	2	1	0	REBAR AT SOG	13MAR95
				WORKPERIOD		291
G1220	2	2	1	0	METAL DECK INSTALLATION	8MAR95
				WORKPERIOD		288
G1222	2	2	1	0	FORM/POUR SOG	15MAR95
				WORKPERIOD		293
G1224	4	4	1	0	SLAB ON METAL DECK	14MAR95
				WORKPERIOD		292
G1226	2	2	1	0	BACKFILL AT SOG	17MAR95
				WORKPERIOD		295
G1228	10	10	1	0	METAL ROOF/SIDING	28MAR95
				WORKPERIOD		302
G1230	2	2	1	0	INSTALL HOLLOW METAL	30MAR95
				WORKPERIOD		304
G1232	3	3	1	0	INSTALL ALUM FRAMES/GLASS/GLAZING	10APR95
				WORKPERIOD		311
G1234	2	2	1	0	INTERIOR FRAMING	3APR95
				WORKPERIOD		306
G1236	2	2	1	0	PLUMBING ROUGH-IN	10APR95
				WORKPERIOD		311
G1238	2	2	1	0	INSTALL DOORS/HARDWARE	24APR95
				WORKPERIOD		321
G1240	4	4	1	0	MECHANICAL ROUGH-IN	10APR95
				WORKPERIOD		311
G1242	5	5	1	0	ELECTRICAL ROUGH-IN	10APR95
				WORKPERIOD		311
G1244	10	10	1	0	INTERIOR FINISHES	24APR95
				WORKPERIOD		321
G1246	2	2	1	0	PAINT	26APR95
				WORKPERIOD		323
G1250	3	3	1	0	MECHANICAL FINISH	1MAY95
				WORKPERIOD		326
G1252	3	3	1	0	PLUMBING FINISH	1MAY95
				WORKPERIOD		326
G1254	3	3	1	0	ELECTRICAL FINISH	1MAY95
				WORKPERIOD		326
G1256	15	15	1	0	PUNCHLIST	22MAY95*
				WORKPERIOD		341

Figure 9.25 - Case 3, Latest Dates of the Last Tower, 312.

Table 9.5 - Case 3, Calculation of Minimum Quantity of Resources to Complete MS#18 & MS#23 Towers.

				Tower	Tower						Normalized
				307	312					Independent	Independent
ACT ID	Activity title	Resource	duration	EF	LF	Taa	Rma	Sma	Sma	rate	rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
G0702	SUBGRADE VERIFICATION	SQ02	1	42	275	233	0.026	0.026	1	1.000	2.533
G0704	BUILDING LAYOUT	SQ04	2	50	277	227	0.026	0.053	1	0.500	1.234
G0706	EXCAVATE FOOTING	SQ06	1	51	278	227	0.026	0.026	1	1.000	2.467
G0708	ELECTRICAL UNDERGROUND	SQ08	1	52	279	227	0.026	0.026	1	1.000	2.467
G0710	REBAR AT FOOTING	SQ10	2	54	281	227	0.026	0.053	1	0.500	1.234
G0712	FORM/POUR FOOTING	SQ12	3	63	284	221	0.027	0.081	1	0.333	0.801
G0714	PLUMBING UNDERGROUND	SQ14	2	172	289	117	0.051	0.103	1	0.500	0.636
G0716	STRUCTURAL TOWER STEEL ERECTION	SQ16	2	170	286	116	0.052	0.103	1	0.500	0.630
G0718	REBAR AT SOG	SQ18	2	174	291	117	0.051	0.103	1	0.500	0.636
G0720	METAL DECK INSTALLATION	SQ20	2	172	288	116	0.052	0.103	1	0.500	0.630
G0722	FORM/POUR SOG	SQ22	2	176	293	117	0.051	0.103	1	0.500	0.636
G0724	SLAB ON METAL DECK	SQ24	4	188	292	104	0.058	0.231	1	0.250	0.283
G0726	BACKFILL AT SOG	SQ26	2	178	295	117	0.051	0.103	1	0.500	0.636
G0728	METAL ROOF/SIDING	SQ28	10	204	302	98	0.061	0.612	1	0.100	0.107
G0730	INSTALL HOLLOW METAL	SQ30	2	206	304	98	0.061	0.122	1	0.500	0.533
G0732	INSTALL ALUM FRAMES/GLASS/GLAZING	SQ32	3	207	311	104	0.058	0.173	1	0.333	0.377
G0734	INTERIOR FRAMING	SQ34	2	208	306	98	0.061	0.122	1	0.500	0.533
G0736	PLUMBING ROUGH-IN	SQ36	2	210	311	101	0.059	0.119	1	0.500	0.549
G0738	INSTALL DOORS/HARDWARE	SQ38	2	210	321	111	0.054	0.108	1	0.500	0.603
G0740	MECHANICAL ROUGH-IN	SQ40	4	212	311	99	0.061	0.242	1	0.250	0.269
G0742	ELECTRICAL ROUGH-IN	SQ42	5	213	311	98	0.061	0.306	1	0.200	0.213
G0744	INTERIOR FINISHES	SQ44	10	223	321	98	0.061	0.612	1	0.100	0.107
G0746	PAINT	SQ46	2	225	323	98	0.061	0.122	1	0.500	0.533
G0750	MECHANICAL FINISH	SQ50	3	228	326	98	0.061	0.184	1	0.333	0.355
G0752	PLUMBING FINISH	SQ52	3	228	326	98	0.061	0.184	1	0.333	0.355
G0754	ELECTRICAL FINISH	SQ54	3	228	326	98	0.061	0.184	1	0.333	0.355
G0756	PUNCHLIST	SQ56	12	249	341	92	0.065	0.783	1	0.083	0.083

CALIFORNIA STATE PRISON - SUSANVILLE	PRIMAVERA PROJECT PLANNER	BID PACKAGE 3 - GUARD TOWER
REPORT DATE 20SEP95 RUN NO. 87	***** M C C A R T H Y *****	START DATE 18JAN94 FIN DATE 13APR95
11:42		
Baseline Schedule by Typical Activity & ES		DATA DATE 18JAN94 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
A00	1	1	1	0		NOTICE TO PROCEED	18JAN94	18JAN94	18JAN94	18JAN94	0
S120	65	65	1	0		STRUCTURAL STEEL S. D. - Towers	19JAN94	19APR94	19JAN94	19APR94	0
S121	60	60	1	0		SIDING FOR GUARD TOWER SUBMITTALS	19JAN94	12APR94	1MAR94	23MAY94	29
S122	60	60	1	0		WINDOW/GLAZING FOR TOWER SUBMITTALS	19JAN94	12APR94	24MAR94	16JUN94	46
S123	50	50	1	0		HVAC UNITS @ TOWERS SUBM TTAL	18JAN94	29MAR94	6APR94	15JUN94	55
S124	75	75	1	0		FLOOR HATCHES FOR TOWER SUBMITTALS	19JAN94	3MAY94	28MAR94	12JUL94	48
PH08&12S	0	0	2	0		PH#08&12 - START G TOWERS 301-307 >= DAY 36	8MAR94*		12AUG94		157
R123	20	20	2	0		CDC REVIEW - HVAC UNITS @ TOWERS	30MAR94	18APR94	16JUN94	5JUL94	78
R121	20	20	2	0		CDC REVIEW - SIDING FOR GUARD TOWER SUBMITTALS	13APR94	2MAY94	24MAY94	12JUN94	41
R122	20	20	2	0		CDC REVIEW - WINDOW/GLAZING FOR TOWER SUBMTLS.	13APR94	2MAY94	17JUN94	6JUL94	65
A123	0	0	2	0		CDC APPROVAL - HVAC UNITS @ TOWERS	19APR94	18APR94	6JUL94	5JUL94	78
F123	60	60	1	0		FAB HVAC UNITS @ TOWER	19APR94	13JUL94	6JUL94	28SEP94	54
R120	20	20	2	0		CDC REVIEW - STRUCT. STEEL SUBMITTAL - TOWERS	20APR94	9MAY94	20APR94	9MAY94	0
A121	0	0	2	0		CDC APPROVAL - SIDING FOR GUARD TOWER SUBMITTALS	3MAY94	2MAY94	13JUN94	12JUN94	41
A122	0	0	2	0		CDC APPROVAL - WINDOW/GLAZING FOR TOWER SUBMTLS.	3MAY94	2MAY94	7JUL94	6JUL94	65
F121	60	60	1	0		FAB. SIDING FOR GUARD TOWER	3MAY94	27JUL94	13JUN94	6SEP94	28
F122	60	60	1	0		FAB. WINDOW/GLAZING FOR TOWER	3MAY94	27JUL94	7JUL94	29SEP94	45
R124	20	20	2	0		CDC REVIEW - FLOOR HATCHES FOR TOWERS SUBMTL.	4MAY94	23MAY94	13JUL94	1AUG94	70
A120	0	0	2	0		CDC APPROVAL - STRUCT. STEEL SUBMITTAL - TOWERS	10MAY94	9MAY94	10MAY94	9MAY94	0
F120	75	75	1	0		STRUCTURAL STEEL FAB - Towers	10MAY94	24AUG94	10MAY94	24AUG94	0
A124	0	0	2	0		CDC APPROVAL - FLOOR HATCHES FOR TOWERS SUBMTL.	24MAY94	23MAY94	2AUG94	1AUG94	70
F124	45	45	1	0		FAB. FLOOR HATCHES FOR TOWERS	24MAY94	27JUL94	2AUG94	4OCT94	48
PH18S	0	0	2	0		PH#18 - START G TOWERS 308 & 313 >= DAY 120	6JUL94*		11OCT94		97
D123	1	1	1	0		DELIVER HVAC EQUIP. @ GUARD TOWER	14JUL94	14JUL94	29SEP94	29SEP94	54
D121	1	1	1	0		DELIVER SIDING FOR GUARD TOWER	28JUL94	28JUL94	7SEP94	7SEP94	28
D122	1	1	1	0		DELIVER WINDOW/GLAZING FOR TOWER	28JUL94	28JUL94	30SEP94	30SEP94	45
D124	1	1	1	0		DELIVER FLOOR HATCHES FOR TOWERS	28JUL94	28JUL94	5OCT94	5OCT94	48
PH23S	0	0	2	0		PH#23 - START G TOWERS 309-312 >= DAY 142	5AUG94*		15NOV94		102
D120	1	1	1	0		DELIVER STRUCTURAL STEEL - Towers	25AUG94	25AUG94	25AUG94	25AUG94	0
PH08E	0	0	2	0		PH#08 - COMPLETE G TOWERS 302-306 <= DAY 252	22DEC94		17JAN95*		26
PH12E	0	0	2	0		PH#12 - COMPLETE G TOWERS 301 & 307 <= DAY 266	11JAN95		6FEB95*		26
PH18E	0	0	2	0		PH#18 - COMPLETE G TOWERS 308 & 313 <= DAY 310	6FEB95		7APR95*		60
PH23E	0	0	2	0		PH#23 - COMPLETE G TOWERS 309-312 <= DAY 341	13APR95		13APR95*		0
G0202	1	1	1	0	01	SUBGRADE VERIFICATION	8MAR94	8MAR94	12AUG94	12AUG94	111
G0302	1	1	1	0	02	SUBGRADE VERIFICATION	9MAR94	9MAR94	19AUG94	19AUG94	115
G0402	1	1	1	0	03	SUBGRADE VERIFICATION	10MAR94	10MAR94	29AUG94	29AUG94	120
G0502	1	1	1	0	04	SUBGRADE VERIFICATION	11MAR94	11MAR94	6SEP94	6SEP94	124
G0602	1	1	1	0	05	SUBGRADE VERIFICATION	14MAR94	14MAR94	13SEP94	13SEP94	128
G0102	1	1	1	0	06	SUBGRADE VERIFICATION	15MAR94	15MAR94	20SEP94	20SEP94	132
G0702	1	1	1	0	07	SUBGRADE VERIFICATION	16MAR94	16MAR94	27SEP94	27SEP94	136
G0802	1	1	1	0	08	SUBGRADE VERIFICATION	6JUL94	6JUL94	11OCT94	11OCT94	68
G1302	1	1	1	0	09	SUBGRADE VERIFICATION	7JUL94	7JUL94	27OCT94	27OCT94	79
G0902	1	1	1	0	10	SUBGRADE VERIFICATION	5AUG94	5AUG94	15NOV94	15NOV94	70
G1002	1	1	1	0	11	SUBGRADE VERIFICATION	8AUG94	8AUG94	5DEC94	5DEC94	81
G1102	1	1	1	0	12	SUBGRADE VERIFICATION	9AUG94	9AUG94	21DEC94	21DEC94	92
G1202	1	1	1	0	13	SUBGRADE VERIFICATION	10AUG94	10AUG94	10JAN95	10JAN95	103
G0204	2	2	1	0	01	BUILDING LAYOUT	9MAR94	10MAR94	15AUG94	16AUG94	111
G0304	2	2	1	0	02	BUILDING LAYOUT	11MAR94	14MAR94	22AUG94	23AUG94	114
G0404	2	2	1	0	03	BUILDING LAYOUT	15MAR94	16MAR94	30AUG94	31AUG94	118
G0504	2	2	1	0	04	BUILDING LAYOUT	17MAR94	18MAR94	7SEP94	8SEP94	121
G0604	2	2	1	0	05	BUILDING LAYOUT	21MAR94	22MAR94	14SEP94	15SEP94	124
G0104	2	2	1	0	06	BUILDING LAYOUT	23MAR94	24MAR94	21SEP94	22SEP94	127
G0704	2	2	1	0	07	BUILDING LAYOUT	25MAR94	28MAR94	28SEP94	29SEP94	130
G0804	2	2	1	0	08	BUILDING LAYOUT	7JUL94	8JUL94	12OCT94	13OCT94	68
G1304	2	2	1	0	09	BUILDING LAYOUT	11JUL94	12JUL94	28OCT94	31OCT94	78
G0904	2	2	1	0	10	BUILDING LAYOUT	8AUG94	9AUG94	16NOV94	17NOV94	70
G1004	2	2	1	0	11	BUILDING LAYOUT	10AUG94	11AUG94	6DEC94	7DEC94	80
G1104	2	2	1	0	12	BUILDING LAYOUT	12AUG94	15AUG94	22DEC94	23DEC94	90
G1204	2	2	1	0	13	BUILDING LAYOUT	16AUG94	17AUG94	11JAN95	12JAN95	100
G0206	1	1	1	0	01	EXCAVATE FOOTING	11MAR94	11MAR94	17AUG94	17AUG94	111
G0306	1	1	1	0	02	EXCAVATE FOOTING	15MAR94	15MAR94	24AUG94	24AUG94	114
G0406	1	1	1	0	03	EXCAVATE FOOTING	17MAR94	17MAR94	1SEP94	1SEP94	118
G0506	1	1	1	0	04	EXCAVATE FOOTING	21MAR94	21MAR94	9SEP94	9SEP94	121
G0606	1	1	1	0	05	EXCAVATE FOOTING	23MAR94	23MAR94	16SEP94	16SEP94	124
G0106	1	1	1	0	06	EXCAVATE FOOTING	25MAR94	25MAR94	23SEP94	23SEP94	127

Figure 9.26 - Case 3, Baseline Schedule.

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*****MCC/RTHY*****

START DATE 18JAN94 FIN DATE 13APR95

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Baseline Schedule by Typical Activity & ES

DATA DATE 18JAN94 PAGE NO. 2

ACTIVITY ID	ORIG DUR	REN DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVEL ES	LEVEL EF	LEVEL LS	LEVEL LF	TOTAL FLOAT
G0706	1	1	1	0	07	EXCAVATE FOOTING	29MAR94	29MAR94	30SEP94	30SEP94	130
G0806	1	1	1	0	08	EXCAVATE FOOTING	11JUL94	11JUL94	14OCT94	14OCT94	68
G1306	1	1	1	0	09	EXCAVATE FOOTING	13JUL94	13JUL94	1NOV94	1NOV94	78
G0906	1	1	1	0	10	EXCAVATE FOOTING	10AUG94	10AUG94	18NOV94	18NOV94	70
G1006	1	1	1	0	11	EXCAVATE FOOTING	12AUG94	12AUG94	8DEC94	8DEC94	80
G1106	1	1	1	0	12	EXCAVATE FOOTING	16AUG94	16AUG94	27DEC94	27DEC94	90
G1206	1	1	1	0	13	EXCAVATE FOOTING	18AUG94	18AUG94	13JAN95	13JAN95	100
G0208	1	1	1	0	01	ELECTRICAL UNDERGROUND	14MAR94	14MAR94	18AUG94	18AUG94	111
G0308	1	1	1	0	02	ELECTRICAL UNDERGROUND	16MAR94	16MAR94	25AUG94	25AUG94	114
G0408	1	1	1	0	03	ELECTRICAL UNDERGROUND	18MAR94	18MAR94	2SEP94	2SEP94	118
G0508	1	1	1	0	04	ELECTRICAL UNDERGROUND	22MAR94	22MAR94	12SEP94	12SEP94	121
G0608	1	1	1	0	05	ELECTRICAL UNDERGROUND	24MAR94	24MAR94	19SEP94	19SEP94	124
G0108	1	1	1	0	06	ELECTRICAL UNDERGROUND	28MAR94	28MAR94	26SEP94	26SEP94	127
G0708	1	1	1	0	07	ELECTRICAL UNDERGROUND	30MAR94	30MAR94	3OCT94	3OCT94	130
G0808	1	1	1	0	08	ELECTRICAL UNDERGROUND	12JUL94	12JUL94	17OCT94	17OCT94	68
G1308	1	1	1	0	09	ELECTRICAL UNDERGROUND	14JUL94	14JUL94	2NOV94	2NOV94	78
G0908	1	1	1	0	10	ELECTRICAL UNDERGROUND	11AUG94	11AUG94	21NOV94	21NOV94	70
G1008	1	1	1	0	11	ELECTRICAL UNDERGROUND	15AUG94	15AUG94	9DEC94	9DEC94	80
G1108	1	1	1	0	12	ELECTRICAL UNDERGROUND	17AUG94	17AUG94	28DEC94	28DEC94	90
G1208	1	1	1	0	13	ELECTRICAL UNDERGROUND	19AUG94	19AUG94	17JAN95	17JAN95	100
G0210	2	2	1	0	01	REBAR AT FOOTING	15MAR94	16MAR94	19AUG94	22AUG94	111
G0310	2	2	1	0	02	REBAR AT FOOTING	17MAR94	18MAR94	26AUG94	29AUG94	114
G0410	2	2	1	0	03	REBAR AT FOOTING	21MAR94	22MAR94	6SEP94	7SEP94	118
G0510	2	2	1	0	04	REBAR AT FOOTING	23MAR94	24MAR94	13SEP94	14SEP94	121
G0610	2	2	1	0	05	REBAR AT FOOTING	25MAR94	28MAR94	20SEP94	21SEP94	124
G0110	2	2	1	0	06	REBAR AT FOOTING	29MAR94	30MAR94	27SEP94	28SEP94	127
G0710	2	2	1	0	07	REBAR AT FOOTING	31MAR94	1APR94	4OCT94	5OCT94	130
G0810	2	2	1	0	08	REBAR AT FOOTING	13JUL94	14JUL94	18OCT94	19OCT94	68
G1310	2	2	1	0	09	REBAR AT FOOTING	15JUL94	18JUL94	3NOV94	4NOV94	78
G0910	2	2	1	0	10	REBAR AT FOOTING	12AUG94	15AUG94	22NOV94	23NOV94	70
G1010	2	2	1	0	11	REBAR AT FOOTING	16AUG94	17AUG94	12DEC94	13DEC94	80
G1110	2	2	1	0	12	REBAR AT FOOTING	18AUG94	19AUG94	29DEC94	30DEC94	90
G1210	2	2	1	0	13	REBAR AT FOOTING	22AUG94	23AUG94	18JAN95	19JAN95	100
G0212	3	3	1	0	01	FORM/POUR FOOTING	17MAR94	21MAR94	23AUG94	25AUG94	111
G0312	3	3	1	0	02	FORM/POUR FOOTING	22MAR94	24MAR94	30AUG94	1SEP94	113
G0412	3	3	1	0	03	FORM/POUR FOOTING	25MAR94	29MAR94	8SEP94	12SEP94	116
G0512	3	3	1	0	04	FORM/POUR FOOTING	30MAR94	1APR94	15SEP94	19SEP94	118
G0612	3	3	1	0	05	FORM/POUR FOOTING	4APR94	6APR94	22SEP94	26SEP94	120
G0112	3	3	1	0	06	FORM/POUR FOOTING	7APR94	11APR94	29SEP94	3OCT94	122
G0712	3	3	1	0	07	FORM/POUR FOOTING	12APR94	14APR94	6OCT94	10OCT94	124
G0812	3	3	1	0	08	FORM/POUR FOOTING	15JUL94	19JUL94	20OCT94	24OCT94	68
G1312	3	3	1	0	09	FORM/POUR FOOTING	20JUL94	22JUL94	7NOV94	9NOV94	77
G0912	3	3	1	0	10	FORM/POUR FOOTING	16AUG94	18AUG94	28NOV94	30NOV94	70
G1012	3	3	1	0	11	FORM/POUR FOOTING	19AUG94	23AUG94	14DEC94	16DEC94	79
G1112	3	3	1	0	12	FORM/POUR FOOTING	24AUG94	26AUG94	3JAN95	5JAN95	88
G1212	3	3	1	0	13	FORM/POUR FOOTING	29AUG94	31AUG94	20JAN95	24JAN95	97
G0214	2	2	1	0	01	PLUMBING UNDERGROUND	30AUG94	31AUG94	31AUG94	1SEP94	1
G0314	2	2	1	0	02	PLUMBING UNDERGROUND	1SEP94	2SEP94	8SEP94	9SEP94	4
G0414	2	2	1	0	03	PLUMBING UNDERGROUND	6SEP94	7SEP94	16SEP94	19SEP94	8
G0514	2	2	1	0	04	PLUMBING UNDERGROUND	8SEP94	9SEP94	23SEP94	26SEP94	11
G0614	2	2	1	0	05	PLUMBING UNDERGROUND	12SEP94	13SEP94	30SEP94	3OCT94	14
G0114	2	2	1	0	06	PLUMBING UNDERGROUND	14SEP94	15SEP94	7OCT94	10OCT94	17
G0714	2	2	1	0	07	PLUMBING UNDERGROUND	16SEP94	19SEP94	14OCT94	17OCT94	20
G0814	2	2	1	0	08	PLUMBING UNDERGROUND	20SEP94	21SEP94	28OCT94	31OCT94	28
G1314	2	2	1	0	09	PLUMBING UNDERGROUND	22SEP94	23SEP94	16NOV94	17NOV94	38
G0914	2	2	1	0	10	PLUMBING UNDERGROUND	26SEP94	27SEP94	6DEC94	7DEC94	48
G1014	2	2	1	0	11	PLUMBING UNDERGROUND	28SEP94	29SEP94	22DEC94	23DEC94	58
G1114	2	2	1	0	12	PLUMBING UNDERGROUND	30SEP94	3OCT94	11JAN95	12JAN95	68
G1214	2	2	1	0	13	PLUMBING UNDERGROUND	4OCT94	5OCT94	30JAN95	31JAN95	78
G0216	2	2	1	0	01	STRUCTURAL TOWER STEEL ERECTION	26AUG94	29AUG94	26AUG94	29AUG94	0
G0316	2	2	1	0	02	STRUCTURAL TOWER STEEL ERECTION	30AUG94	31AUG94	2SEP94	6SEP94	3
G0416	2	2	1	0	03	STRUCTURAL TOWER STEEL ERECTION	1SEP94	2SEP94	13SEP94	14SEP94	7
G0516	2	2	1	0	04	STRUCTURAL TOWER STEEL ERECTION	6SEP94	7SEP94	20SEP94	21SEP94	10
G0616	2	2	1	0	05	STRUCTURAL TOWER STEEL ERECTION	8SEP94	9SEP94	27SEP94	28SEP94	13
G0116	2	2	1	0	06	STRUCTURAL TOWER STEEL ERECTION	12SEP94	13SEP94	4OCT94	5OCT94	16

Figure 9.26 - Case 3, Baseline Schedule (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE

PRIMAVERA PROJECT PLANNER

BID PACKAGE 3 - GUARD TOWER

REPORT DATE 20SEP95 RUN NO. 87

*****MCCARTHY*****

START DATE 18JAN94 FIN DATE 13APR95

Baseline Schedule by Typical Activity & ES

DATA DATE 18JAN94 PAGE NO. 3

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0716	2	2	1	0	07	STRUCTURAL TOWER STEEL ERECTION	14SEP94	15SEP94	11OCT94	12OCT94	19
G0816	2	2	1	0	08	STRUCTURAL TOWER STEEL ERECTION	16SEP94	19SEP94	25OCT94	26OCT94	27
G1316	2	2	1	0	09	STRUCTURAL TOWER STEEL ERECTION	20SEP94	21SEP94	10NOV94	14NOV94	37
G0916	2	2	1	0	10	STRUCTURAL TOWER STEEL ERECTION	22SEP94	23SEP94	1DEC94	2DEC94	47
G1016	2	2	1	0	11	STRUCTURAL TOWER STEEL ERECTION	26SEP94	27SEP94	19DEC94	20DEC94	57
G1116	2	2	1	0	12	STRUCTURAL TOWER STEEL ERECTION	28SEP94	29SEP94	6JAN95	9JAN95	67
G1216	2	2	1	0	13	STRUCTURAL TOWER STEEL ERECTION	30SEP94	3OCT94	25JAN95	26JAN95	77
G0218	2	2	1	0	01	REBAR AT SOG	1SEP94	2SEP94	2SEP94	6SEP94	1
G0318	2	2	1	0	02	REBAR AT SOG	6SEP94	7SEP94	12SEP94	13SEP94	4
G0418	2	2	1	0	03	REBAR AT SOG	8SEP94	9SEP94	20SEP94	21SEP94	8
G0518	2	2	1	0	04	REBAR AT SOG	12SEP94	13SEP94	27SEP94	28SEP94	11
G0618	2	2	1	0	05	REBAR AT SOG	14SEP94	15SEP94	4OCT94	5OCT94	14
G0118	2	2	1	0	06	REBAR AT SOG	16SEP94	19SEP94	11OCT94	12OCT94	17
G0718	2	2	1	0	07	REBAR AT SOG	20SEP94	21SEP94	18OCT94	19OCT94	20
G0818	2	2	1	0	08	REBAR AT SOG	22SEP94	23SEP94	1NOV94	2NOV94	28
G1318	2	2	1	0	09	REBAR AT SOG	26SEP94	27SEP94	18NOV94	21NOV94	38
G0918	2	2	1	0	10	REBAR AT SOG	28SEP94	29SEP94	8DEC94	9DEC94	48
G1018	2	2	1	0	11	REBAR AT SOG	30SEP94	3OCT94	27DEC94	28DEC94	58
G1118	2	2	1	0	12	REBAR AT SOG	4OCT94	5OCT94	13JAN95	17JAN95	68
G1218	2	2	1	0	13	REBAR AT SOG	6OCT94	7OCT94	1FEB95	2FEB95	78
G0220	2	2	1	0	01	METAL DECK INSTALLATION	30AUG94	31AUG94	30AUG94	31AUG94	0
G0320	2	2	1	0	02	METAL DECK INSTALLATION	1SEP94	2SEP94	7SEP94	8SEP94	3
G0420	2	2	1	0	03	METAL DECK INSTALLATION	6SEP94	7SEP94	15SEP94	16SEP94	7
G0520	2	2	1	0	04	METAL DECK INSTALLATION	8SEP94	9SEP94	22SEP94	23SEP94	10
G0620	2	2	1	0	05	METAL DECK INSTALLATION	12SEP94	13SEP94	29SEP94	30SEP94	13
G0120	2	2	1	0	06	METAL DECK INSTALLATION	14SEP94	15SEP94	6OCT94	7OCT94	16
G0720	2	2	1	0	07	METAL DECK INSTALLATION	16SEP94	19SEP94	13OCT94	14OCT94	19
G0820	2	2	1	0	08	METAL DECK INSTALLATION	20SEP94	21SEP94	27OCT94	28OCT94	27
G1320	2	2	1	0	09	METAL DECK INSTALLATION	22SEP94	23SEP94	15NOV94	16NOV94	37
G0920	2	2	1	0	10	METAL DECK INSTALLATION	26SEP94	27SEP94	5DEC94	6DEC94	47
G1020	2	2	1	0	11	METAL DECK INSTALLATION	28SEP94	29SEP94	21DEC94	22DEC94	57
G1120	2	2	1	0	12	METAL DECK INSTALLATION	30SEP94	3OCT94	10JAN95	11JAN95	67
G1220	2	2	1	0	13	METAL DECK INSTALLATION	4OCT94	5OCT94	27JAN95	30JAN95	77
G0222	2	2	1	0	01	FORM/POUR SOG	6SEP94	7SEP94	7SEP94	8SEP94	1
G0322	2	2	1	0	02	FORM/POUR SOG	8SEP94	9SEP94	14SEP94	15SEP94	4
G0422	2	2	1	0	03	FORM/POUR SOG	12SEP94	13SEP94	22SEP94	23SEP94	8
G0522	2	2	1	0	04	FORM/POUR SOG	14SEP94	15SEP94	29SEP94	30SEP94	11
G0622	2	2	1	0	05	FORM/POUR SOG	16SEP94	19SEP94	6OCT94	7OCT94	14
G0122	2	2	1	0	06	FORM/POUR SOG	20SEP94	21SEP94	13OCT94	14OCT94	17
G0722	2	2	1	0	07	FORM/POUR SOG	22SEP94	23SEP94	20OCT94	21OCT94	20
G0822	2	2	1	0	08	FORM/POUR SOG	26SEP94	27SEP94	3NOV94	4NOV94	28
G1322	2	2	1	0	09	FORM/POUR SOG	28SEP94	29SEP94	22NOV94	23NOV94	38
G0922	2	2	1	0	10	FORM/POUR SOG	30SEP94	3OCT94	12DEC94	13DEC94	48
G1022	2	2	1	0	11	FORM/POUR SOG	4OCT94	5OCT94	29DEC94	30DEC94	58
G1122	2	2	1	0	12	FORM/POUR SOG	6OCT94	7OCT94	18JAN95	19JAN95	68
G1222	2	2	1	0	13	FORM/POUR SOG	10OCT94	11OCT94	3FEB95	6FEB95	78
G0224	4	4	1	0	01	SLAB ON METAL DECK	1SEP94	7SEP94	1SEP94	7SEP94	0
G0324	4	4	1	0	02	SLAB ON METAL DECK	8SEP94	13SEP94	9SEP94	14SEP94	1
G0424	4	4	1	0	03	SLAB ON METAL DECK	14SEP94	19SEP94	19SEP94	22SEP94	3
G0524	4	4	1	0	04	SLAB ON METAL DECK	20SEP94	23SEP94	26SEP94	29SEP94	4
G0624	4	4	1	0	05	SLAB ON METAL DECK	26SEP94	29SEP94	3OCT94	6OCT94	5
G0124	4	4	1	0	06	SLAB ON METAL DECK	30SEP94	5OCT94	10OCT94	13OCT94	6
G0724	4	4	1	0	07	SLAB ON METAL DECK	6OCT94	11OCT94	17OCT94	20OCT94	7
G0824	4	4	1	0	08	SLAB ON METAL DECK	12OCT94	17OCT94	31OCT94	3NOV94	13
G1324	4	4	1	0	09	SLAB ON METAL DECK	18OCT94	21OCT94	17NOV94	22NOV94	21
G0924	4	4	1	0	10	SLAB ON METAL DECK	24OCT94	27OCT94	7DEC94	12DEC94	29
G1024	4	4	1	0	11	SLAB ON METAL DECK	28OCT94	2NOV94	23DEC94	29DEC94	37
G1124	4	4	1	0	12	SLAB ON METAL DECK	3NOV94	8NOV94	12JAN95	18JAN95	45
G1224	4	4	1	0	13	SLAB ON METAL DECK	9NOV94	15NOV94	31JAN95	3FEB95	53
G0226	2	2	1	0	01	BACKFILL AT SOG	8SEP94	9SEP94	9SEP94	12SEP94	1
G0326	2	2	1	0	02	BACKFILL AT SOG	12SEP94	13SEP94	16SEP94	19SEP94	4
G0426	2	2	1	0	03	BACKFILL AT SOG	14SEP94	15SEP94	26SEP94	27SEP94	8
G0526	2	2	1	0	04	BACKFILL AT SOG	16SEP94	19SEP94	3OCT94	4OCT94	11
G0626	2	2	1	0	05	BACKFILL AT SOG	20SEP94	21SEP94	10OCT94	11OCT94	14
G0126	2	2	1	0	06	BACKFILL AT SOG	22SEP94	23SEP94	17OCT94	18OCT94	17

Figure 9.26 - Case 3, Baseline Schedule (Continued).

REPORT DATE 20SEP95 RUN NO. 87

***** MCCARTHY *****

START DATE 18JAN94 FIN DATE 13APR95

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Baseline Schedule by Typical Activity & ES

DATA DATE 18JAN94 PAGE NO. 4

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0726	2	2	1	0	07	BACKFILL AT SOG	26SEP94	27SEP94	24OCT94	25OCT94	20
G0826	2	2	1	0	08	BACKFILL AT SOG	28SEP94	29SEP94	7NOV94	8NOV94	28
G1326	2	2	1	0	09	BACKFILL AT SOG	30SEP94	30CT94	28NOV94	29NOV94	38
G0926	2	2	1	0	10	BACKFILL AT SOG	40CT94	50CT94	14DEC94	15DEC94	48
G1026	2	2	1	0	11	BACKFILL AT SOG	60CT94	70CT94	3JAN95	4JAN95	58
G1126	2	2	1	0	12	BACKFILL AT SOG	10OCT94	11OCT94	20JAN95	23JAN95	68
G1226	2	2	1	0	13	BACKFILL AT SOG	12OCT94	13OCT94	7FEB95	8FEB95	78
G0228	10	10	1	0	01	METAL ROOF/SIDING	8SEP94	21SEP94	8SEP94	21SEP94	0
G0328	10	10	1	0	02	METAL ROOF/SIDING	14SEP94	27SEP94	15SEP94	28SEP94	1
G0428	10	10	1	0	03	METAL ROOF/SIDING	22SEP94	50CT94	23SEP94	60CT94	1
G0528	10	10	1	0	04	METAL ROOF/SIDING	28SEP94	11OCT94	30SEP94	13OCT94	2
G0628	10	10	1	0	05	METAL ROOF/SIDING	60CT94	19OCT94	7OCT94	20OCT94	1
G0128	10	10	1	0	06	METAL ROOF/SIDING	12OCT94	25OCT94	14OCT94	27OCT94	2
G0728	10	10	1	0	07	METAL ROOF/SIDING	20OCT94	2NOV94	21OCT94	3NOV94	1
G0828	10	10	1	0	08	METAL ROOF/SIDING	26OCT94	8NOV94	4NOV94	18NOV94	7
G1328	10	10	1	0	09	METAL ROOF/SIDING	9NOV94	23NOV94	23NOV94	8DEC94	9
G0928	10	10	1	0	10	METAL ROOF/SIDING	28NOV94	9DEC94	13DEC94	27DEC94	11
G1028	10	10	1	0	11	METAL ROOF/SIDING	12DEC94	23DEC94	30DEC94	13JAN95	13
G1128	10	10	1	0	12	METAL ROOF/SIDING	27DEC94	10JAN95	19JAN95	1FEB95	15
G1228	10	10	1	0	13	METAL ROOF/SIDING	11JAN95	25JAN95	6FEB95	17FEB95	17
G0230	2	2	1	0	01	INSTALL HOLLOW METAL	22SEP94	23SEP94	22SEP94	23SEP94	0
G0330	2	2	1	0	02	INSTALL HOLLOW METAL	28SEP94	29SEP94	29SEP94	30SEP94	1
G0430	2	2	1	0	03	INSTALL HOLLOW METAL	60CT94	70CT94	7OCT94	10OCT94	1
G0530	2	2	1	0	04	INSTALL HOLLOW METAL	12OCT94	13OCT94	14OCT94	17OCT94	2
G0630	2	2	1	0	05	INSTALL HOLLOW METAL	20OCT94	21OCT94	21OCT94	24OCT94	1
G0130	2	2	1	0	06	INSTALL HOLLOW METAL	26OCT94	27OCT94	28OCT94	31OCT94	2
G0730	2	2	1	0	07	INSTALL HOLLOW METAL	3NOV94	4NOV94	4NOV94	7NOV94	1
G0830	2	2	1	0	08	INSTALL HOLLOW METAL	9NOV94	10NOV94	21NOV94	22NOV94	7
G1330	2	2	1	0	09	INSTALL HOLLOW METAL	28NOV94	29NOV94	9DEC94	12DEC94	9
G0930	2	2	1	0	10	INSTALL HOLLOW METAL	12DEC94	13DEC94	28DEC94	29DEC94	11
G1030	2	2	1	0	11	INSTALL HOLLOW METAL	27DEC94	28DEC94	17JAN95	18JAN95	13
G1130	2	2	1	0	12	INSTALL HOLLOW METAL	11JAN95	12JAN95	2FEB95	3FEB95	15
G1230	2	2	1	0	13	INSTALL HOLLOW METAL	26JAN95	27JAN95	20FEB95	21FEB95	17
G0232	3	3	1	0	01	INSTALL ALUM FRAMES/GLASS/GLAZING	22SEP94	26SEP94	30CT94	50CT94	7
G0332	3	3	1	0	02	INSTALL ALUM FRAMES/GLASS/GLAZING	28SEP94	30SEP94	7OCT94	11OCT94	7
G0432	3	3	1	0	03	INSTALL ALUM FRAMES/GLASS/GLAZING	60CT94	10OCT94	17OCT94	19OCT94	7
G0532	3	3	1	0	04	INSTALL ALUM FRAMES/GLASS/GLAZING	12OCT94	14OCT94	25OCT94	27OCT94	9
G0632	3	3	1	0	05	INSTALL ALUM FRAMES/GLASS/GLAZING	20OCT94	24OCT94	31OCT94	2NOV94	7
G0132	3	3	1	0	06	INSTALL ALUM FRAMES/GLASS/GLAZING	26OCT94	28OCT94	9NOV94	14NOV94	10
G0732	3	3	1	0	07	INSTALL ALUM FRAMES/GLASS/GLAZING	3NOV94	7NOV94	15NOV94	17NOV94	7
G0832	3	3	1	0	08	INSTALL ALUM FRAMES/GLASS/GLAZING	9NOV94	14NOV94	1DEC94	5DEC94	13
G1332	3	3	1	0	09	INSTALL ALUM FRAMES/GLASS/GLAZING	28NOV94	30NOV94	19DEC94	21DEC94	15
G0932	3	3	1	0	10	INSTALL ALUM FRAMES/GLASS/GLAZING	12DEC94	14DEC94	6JAN95	10JAN95	17
G1032	3	3	1	0	11	INSTALL ALUM FRAMES/GLASS/GLAZING	27DEC94	29DEC94	25JAN95	27JAN95	19
G1132	3	3	1	0	12	INSTALL ALUM FRAMES/GLASS/GLAZING	11JAN95	13JAN95	10FEB95	14FEB95	21
G1232	3	3	1	0	13	INSTALL ALUM FRAMES/GLASS/GLAZING	26JAN95	30JAN95	28FEB95	2MAR95	23
G0234	2	2	1	0	01	INTERIOR FRAMING	26SEP94	27SEP94	26SEP94	27SEP94	0
G0334	2	2	1	0	02	INTERIOR FRAMING	30SEP94	30CT94	30CT94	4OCT94	1
G0434	2	2	1	0	03	INTERIOR FRAMING	10OCT94	11OCT94	11OCT94	12OCT94	1
G0534	2	2	1	0	04	INTERIOR FRAMING	14OCT94	17OCT94	18OCT94	19OCT94	2
G0634	2	2	1	0	05	INTERIOR FRAMING	24OCT94	25OCT94	25OCT94	26OCT94	1
G0134	2	2	1	0	06	INTERIOR FRAMING	28OCT94	31OCT94	1NOV94	2NOV94	2
G0734	2	2	1	0	07	INTERIOR FRAMING	7NOV94	8NOV94	8NOV94	9NOV94	1
G0834	2	2	1	0	08	INTERIOR FRAMING	14NOV94	15NOV94	23NOV94	28NOV94	7
G1334	2	2	1	0	09	INTERIOR FRAMING	30NOV94	1DEC94	13DEC94	14DEC94	9
G0934	2	2	1	0	10	INTERIOR FRAMING	14DEC94	15DEC94	30DEC94	3JAN95	11
G1034	2	2	1	0	11	INTERIOR FRAMING	29DEC94	30DEC94	19JAN95	20JAN95	13
G1134	2	2	1	0	12	INTERIOR FRAMING	13JAN95	17JAN95	6FEB95	7FEB95	15
G1234	2	2	1	0	13	INTERIOR FRAMING	30JAN95	31JAN95	22FEB95	23FEB95	17
G0236	2	2	1	0	01	PLUMBING ROUGH-IN	28SEP94	29SEP94	4OCT94	5OCT94	4
G0336	2	2	1	0	02	PLUMBING ROUGH-IN	4OCT94	5OCT94	10OCT94	11OCT94	4
G0436	2	2	1	0	03	PLUMBING ROUGH-IN	12OCT94	13OCT94	18OCT94	19OCT94	4
G0536	2	2	1	0	04	PLUMBING ROUGH-IN	18OCT94	19OCT94	26OCT94	27OCT94	6
G0636	2	2	1	0	05	PLUMBING ROUGH-IN	26OCT94	27OCT94	1NOV94	2NOV94	4
G0136	2	2	1	0	06	PLUMBING ROUGH-IN	1NOV94	2NOV94	14NOV94	15NOV94	8

Figure 9.26 - Case 3, Baseline Schedule (Continued).

REPORT DATE 20SEP95 RU: NO. 87

*****MCCARTHY*****

START DATE 13JAN94 FIN DATE 13APR95

11:42

Baseline Schedule by Typ.cal Activity & ES

DATA DATE 13JAN94 PAGE NO. 5

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0736	2	2	1	0	07	PLUMBING ROUGH-IN	9NOV94	10NOV94	16NOV94	17NOV94	4
G0836	2	2	1	0	08	PLUMBING ROUGH-IN	16NOV94	17NOV94	2DEC94	5DEC94	10
G1336	2	2	1	0	09	PLUMBING ROUGH-IN	2DEC94	5DEC94	20DEC94	21DEC94	12
G0936	2	2	1	0	10	PLUMBING ROUGH-IN	16DEC94	19DEC94	9JAN95	10JAN95	14
G1036	2	2	1	0	11	PLUMBING ROUGH-IN	3JAN95	4JAN95	26JAN95	27JAN95	16
G1136	2	2	1	0	12	PLUMBING ROUGH-IN	18JAN95	19JAN95	13FEB95	14FEB95	18
G1236	2	2	1	0	13	PLUMBING ROUGH-IN	1FEB95	2FEB95	1MAR95	2MAR95	20
G0238	2	2	1	0	01	INSTALL DOORS/HARDWARE	28SEP94	29SEP94	19OCT94	20OCT94	15
G0338	2	2	1	0	02	INSTALL DOORS/HARDWARE	4OCT94	5OCT94	24OCT94	25OCT94	14
G0438	2	2	1	0	03	INSTALL DOORS/HARDWARE	12OCT94	13OCT94	4NOV94	7NOV94	17
G0538	2	2	1	0	04	INSTALL DOORS/HARDWARE	18OCT94	19OCT94	9NOV94	10NOV94	16
G0638	2	2	1	0	05	INSTALL DOORS/HARDWARE	26OCT94	27OCT94	23NOV94	28NOV94	19
G0138	2	2	1	0	06	INSTALL DOORS/HARDWARE	1NOV94	2NOV94	30NOV94	1DEC94	18
G0738	2	2	1	0	07	INSTALL DOORS/HARDWARE	9NOV94	10NOV94	13DEC94	14DEC94	21
G0838	2	2	1	0	08	INSTALL DOORS/HARDWARE	16NOV94	17NOV94	16DEC94	19DEC94	20
G1338	2	2	1	0	09	INSTALL DOORS/HARDWARE	2DEC94	5DEC94	5JAN95	6JAN95	22
G0938	2	2	1	0	10	INSTALL DOORS/HARDWARE	16DEC94	19DEC94	24JAN95	25JAN95	24
G1038	2	2	1	0	11	INSTALL DOORS/HARDWARE	3JAN95	4JAN95	9FEB95	10FEB95	26
G1138	2	2	1	0	12	INSTALL DOORS/HARDWARE	18JAN95	19JAN95	27FEB95	28FEB95	28
G1238	2	2	1	0	13	INSTALL DOORS/HARDWARE	1FEB95	2FEB95	15MAR95	16MAR95	30
G0240	4	4	1	0	01	MECHANICAL ROUGH-IN	28SEP94	3OCT94	30SEP94	5OCT94	2
G0340	4	4	1	0	02	MECHANICAL ROUGH-IN	4OCT94	7OCT94	6OCT94	11OCT94	2
G0440	4	4	1	0	03	MECHANICAL ROUGH-IN	12OCT94	17OCT94	14OCT94	19OCT94	2
G0540	4	4	1	0	04	MECHANICAL ROUGH-IN	18OCT94	21OCT94	24OCT94	27OCT94	4
G0640	4	4	1	0	05	MECHANICAL ROUGH-IN	26OCT94	31OCT94	28OCT94	2NOV94	2
G0140	4	4	1	0	06	MECHANICAL ROUGH-IN	1NOV94	4NOV94	7NOV94	10NOV94	4
G0740	4	4	1	0	07	MECHANICAL ROUGH-IN	9NOV94	15NOV94	14NOV94	17NOV94	2
G0840	4	4	1	0	08	MECHANICAL ROUGH-IN	16NOV94	21NOV94	30NOV94	5DEC94	8
G1340	4	4	1	0	09	MECHANICAL ROUGH-IN	2DEC94	7DEC94	16DEC94	21DEC94	10
G0940	4	4	1	0	10	MECHANICAL ROUGH-IN	16DEC94	21DEC94	5JAN95	10JAN95	12
G1040	4	4	1	0	11	MECHANICAL ROUGH-IN	3JAN95	6JAN95	24JAN95	27JAN95	14
G1140	4	4	1	0	12	MECHANICAL ROUGH-IN	18JAN95	23JAN95	9FEB95	14FEB95	16
G1240	4	4	1	0	13	MECHANICAL ROUGH-IN	1FEB95	6FEB95	27FEB95	2MAR95	18
G0242	5	5	1	0	01	ELECTRICAL ROUGH-IN	28SEP94	4OCT94	28SEP94	4OCT94	0
G0342	5	5	1	0	02	ELECTRICAL ROUGH-IN	5OCT94	11OCT94	5OCT94	11OCT94	0
G0442	5	5	1	0	03	ELECTRICAL ROUGH-IN	12OCT94	18OCT94	13OCT94	19OCT94	1
G0542	5	5	1	0	04	ELECTRICAL ROUGH-IN	19OCT94	25OCT94	20OCT94	26OCT94	1
G0642	5	5	1	0	05	ELECTRICAL ROUGH-IN	26OCT94	1NOV94	27OCT94	2NOV94	1
G0142	5	5	1	0	06	ELECTRICAL ROUGH-IN	2NOV94	8NOV94	3NOV94	9NOV94	1
G0742	5	5	1	0	07	ELECTRICAL ROUGH-IN	9NOV94	16NOV94	10NOV94	17NOV94	1
G0842	5	5	1	0	08	ELECTRICAL ROUGH-IN	17NOV94	23NOV94	29NOV94	5DEC94	6
G1342	5	5	1	0	09	ELECTRICAL ROUGH-IN	2DEC94	8DEC94	15DEC94	21DEC94	9
G0942	5	5	1	0	10	ELECTRICAL ROUGH-IN	16DEC94	22DEC94	4JAN95	10JAN95	11
G1042	5	5	1	0	11	ELECTRICAL ROUGH-IN	3JAN95	9JAN95	23JAN95	27JAN95	13
G1142	5	5	1	0	12	ELECTRICAL ROUGH-IN	18JAN95	24JAN95	8FEB95	14FEB95	15
G1242	5	5	1	0	13	ELECTRICAL ROUGH-IN	1FEB95	7FEB95	24FEB95	2MAR95	17
G0244	10	10	1	0	01	INTERIOR FINISHES	5OCT94	18OCT94	6OCT94	19OCT94	1
G0344	10	10	1	0	02	INTERIOR FINISHES	12OCT94	25OCT94	12OCT94	25OCT94	0
G0444	10	10	1	0	03	INTERIOR FINISHES	19OCT94	1NOV94	20OCT94	2NOV94	1
G0544	10	10	1	0	04	INTERIOR FINISHES	26OCT94	8NOV94	28OCT94	10NOV94	2
G0644	10	10	1	0	05	INTERIOR FINISHES	2NOV94	16NOV94	3NOV94	17NOV94	1
G0144	10	10	1	0	06	INTERIOR FINISHES	9NOV94	23NOV94	16NOV94	1DEC94	4
G0744	10	10	1	0	07	INTERIOR FINISHES	17NOV94	2DEC94	18NOV94	5DEC94	1
G0844	10	10	1	0	08	INTERIOR FINISHES	28NOV94	9DEC94	6DEC94	19DEC94	6
G1344	10	10	1	0	09	INTERIOR FINISHES	12DEC94	23DEC94	22DEC94	6JAN95	8
G0944	10	10	1	0	10	INTERIOR FINISHES	27DEC94	10JAN95	11JAN95	25JAN95	10
G1044	10	10	1	0	11	INTERIOR FINISHES	11JAN95	25JAN95	30JAN95	10FEB95	12
G1144	10	10	1	0	12	INTERIOR FINISHES	26JAN95	8FEB95	15FEB95	28FEB95	14
G1244	10	10	1	0	13	INTERIOR FINISHES	9FEB95	22FEB95	3MAR95	16MAR95	16
G0246	2	2	1	0	01	PAINT	19OCT94	20OCT94	21OCT94	24OCT94	2
G0346	2	2	1	0	02	PAINT	26OCT94	27OCT94	26OCT94	27OCT94	0
G0446	2	2	1	0	03	PAINT	2NOV94	3NOV94	8NOV94	9NOV94	4
G0546	2	2	1	0	04	PAINT	9NOV94	10NOV94	14NOV94	15NOV94	2
G0646	2	2	1	0	05	PAINT	17NOV94	18NOV94	29NOV94	30NOV94	6
G0146	2	2	1	0	06	PAINT	28NOV94	29NOV94	2DEC94	5DEC94	4

Figure 9.26 - Case 3, Baseline Schedule (Continued).

REPORT DATE 20SEP95 RUN NO. 87

*****NCCARTHY*****

START DATE 18JAN94 FIN DATE 13APR95

11:42

Baseline Schedule by Typical Activity & ES

DATA DATE 18JAN94 PAGE NO. 6

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0746	2	2	1	0	07	PAINT	5DEC94	6DEC94	15DEC94	16DEC94	8
G0846	2	2	1	0	08	PAINT	12DEC94	13DEC94	20DEC94	21DEC94	6
G1346	2	2	1	0	09	PAINT	27DEC94	28DEC94	9JAN95	10JAN95	8
G0946	2	2	1	0	10	PAINT	11JAN95	12JAN95	26JAN95	27JAN95	10
G1046	2	2	1	0	11	PAINT	26JAN95	27JAN95	13FEB95	14FEB95	12
G1146	2	2	1	0	12	PAINT	9FEB95	10FEB95	1MAR95	2MAR95	14
G1246	2	2	1	0	13	PAINT	23FEB95	24FEB95	17MAR95	20MAR95	16
G0250	3	3	1	0	01	MECHANICAL FINISH	21OCT94	25OCT94	25OCT94	27OCT94	2
G0350	3	3	1	0	02	MECHANICAL FINISH	28OCT94	1NOV94	28OCT94	1NOV94	0
G0450	3	3	1	0	03	MECHANICAL FINISH	4NOV94	8NOV94	10NOV94	15NOV94	4
G0550	3	3	1	0	04	MECHANICAL FINISH	14NOV94	16NOV94	16NOV94	18NOV94	2
G0650	3	3	1	0	05	MECHANICAL FINISH	21NOV94	23NOV94	1DEC94	5DEC94	6
G0150	3	3	1	0	06	MECHANICAL FINISH	30NOV94	2DEC94	6DEC94	8DEC94	4
G0750	3	3	1	0	07	MECHANICAL FINISH	7DEC94	9DEC94	19DEC94	21DEC94	8
G0850	3	3	1	0	08	MECHANICAL FINISH	14DEC94	16DEC94	22DEC94	27DEC94	6
G1350	3	3	1	0	09	MECHANICAL FINISH	29DEC94	3JAN95	11JAN95	13JAN95	8
G0950	3	3	1	0	10	MECHANICAL FINISH	13JAN95	18JAN95	30JAN95	1FEB95	10
G1050	3	3	1	0	11	MECHANICAL FINISH	30JAN95	1FEB95	15FEB95	17FEB95	12
G1150	3	3	1	0	12	MECHANICAL FINISH	13FEB95	15FEB95	3MAR95	7MAR95	14
G1250	3	3	1	0	13	MECHANICAL FINISH	27FEB95	1MAR95	21MAR95	23MAR95	16
G0252	3	3	1	0	01	PLUMBING FINISH	21OCT94	25OCT94	25OCT94	27OCT94	2
G0352	3	3	1	0	02	PLUMBING FINISH	28OCT94	1NOV94	28OCT94	1NOV94	0
G0452	3	3	1	0	03	PLUMBING FINISH	4NOV94	8NOV94	10NOV94	15NOV94	4
G0552	3	3	1	0	04	PLUMBING FINISH	14NOV94	16NOV94	16NOV94	18NOV94	2
G0652	3	3	1	0	05	PLUMBING FINISH	21NOV94	23NOV94	1DEC94	5DEC94	6
G0152	3	3	1	0	06	PLUMBING FINISH	30NOV94	2DEC94	6DEC94	8DEC94	4
G0752	3	3	1	0	07	PLUMBING FINISH	7DEC94	9DEC94	19DEC94	21DEC94	8
G0852	3	3	1	0	08	PLUMBING FINISH	14DEC94	16DEC94	22DEC94	27DEC94	6
G1352	3	3	1	0	09	PLUMBING FINISH	29DEC94	3JAN95	11JAN95	13JAN95	8
G0952	3	3	1	0	10	PLUMBING FINISH	13JAN95	18JAN95	30JAN95	1FEB95	10
G1052	3	3	1	0	11	PLUMBING FINISH	30JAN95	1FEB95	15FEB95	17FEB95	12
G1152	3	3	1	0	12	PLUMBING FINISH	13FEB95	15FEB95	3MAR95	7MAR95	14
G1252	3	3	1	0	13	PLUMBING FINISH	27FEB95	1MAR95	21MAR95	23MAR95	16
G0254	3	3	1	0	01	ELECTRICAL FINISH	21OCT94	25OCT94	25OCT94	27OCT94	2
G0354	3	3	1	0	02	ELECTRICAL FINISH	28OCT94	1NOV94	28OCT94	1NOV94	0
G0454	3	3	1	0	03	ELECTRICAL FINISH	4NOV94	8NOV94	10NOV94	15NOV94	4
G0554	3	3	1	0	04	ELECTRICAL FINISH	14NOV94	16NOV94	16NOV94	18NOV94	2
G0654	3	3	1	0	05	ELECTRICAL FINISH	21NOV94	23NOV94	1DEC94	5DEC94	6
G0154	3	3	1	0	06	ELECTRICAL FINISH	30NOV94	2DEC94	6DEC94	8DEC94	4
G0754	3	3	1	0	07	ELECTRICAL FINISH	7DEC94	9DEC94	19DEC94	21DEC94	8
G0854	3	3	1	0	08	ELECTRICAL FINISH	14DEC94	16DEC94	22DEC94	27DEC94	6
G1354	3	3	1	0	09	ELECTRICAL FINISH	29DEC94	3JAN95	11JAN95	13JAN95	8
G0954	3	3	1	0	10	ELECTRICAL FINISH	13JAN95	18JAN95	30JAN95	1FEB95	10
G1054	3	3	1	0	11	ELECTRICAL FINISH	30JAN95	1FEB95	15FEB95	17FEB95	12
G1154	3	3	1	0	12	ELECTRICAL FINISH	13FEB95	15FEB95	3MAR95	7MAR95	14
G1254	3	3	1	0	13	ELECTRICAL FINISH	27FEB95	1MAR95	21MAR95	23MAR95	16
G0256	15	15	1	0	01	PUNCHLIST	26OCT94	16NOV94	31OCT94	21NOV94	3
G0356	15	15	1	0	02	PUNCHLIST	2NOV94	23NOV94	2NOV94	23NOV94	0
G0456	15	15	1	0	03	PUNCHLIST	14NOV94	6DEC94	17NOV94	9DEC94	3
G0556	15	15	1	0	04	PUNCHLIST	21NOV94	13DEC94	21NOV94	13DEC94	0
G0656	15	15	1	0	05	PUNCHLIST	2DEC94	22DEC94	7DEC94	28DEC94	3
G0156	15	15	1	0	06	PUNCHLIST	9DEC94	30DEC94	9DEC94	30DEC94	0
G0756	15	15	1	0	07	PUNCHLIST	20DEC94	11JAN95	23DEC94	17JAN95	3
G0856	15	15	1	0	08	PUNCHLIST	28DEC94	19JAN95	28DEC94	19JAN95	0
G1356	15	15	1	0	09	PUNCHLIST	17JAN95	6FEB95	17JAN95	6FEB95	0
G0956	15	15	1	0	10	PUNCHLIST	2FEB95	22FEB95	2FEB95	22FEB95	0
G1056	15	15	1	0	11	PUNCHLIST	20FEB95	10MAR95	20FEB95	10MAR95	0
G1156	15	15	1	0	12	PUNCHLIST	8MAR95	28MAR95	8MAR95	28MAR95	0
G1256	15	15	1	0	13	PUNCHLIST	24MAR95	13APR95	24MAR95	13APR95	0

Figure 9.26 - Case 3, Baseline Schedule (Continued).

Structural Steel Erection Squad - CR16

Metal Roof/Siding Squads - CR28

Interior Finishes Squads - CR44

Punch List Squads - CR56

Figure 9.27- Case 3, Squad Histograms Showing Work Continuity.

REPORT DATE 20SEP95 RUN NO. 61

***** K C C A R T H Y *****

START DATE 18JAN94 FIN DATE 22MAY95*

12:22

Dec. 94 Update by Typical Activity & ES

DATA DATE 18DEC94 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
F123	60	5	1	92		FAB HVAC UNITS @ TOWER	22JUL94A	23DEC94		12OCT94	-49
F124	45	20	1	56		FAB. FLOOR HATCHES FOR TOWERS	30JUL94A	18JAN95		18OCT94	-60
A122	0	0	2	0		CDC APPROVAL - WINDOW/GLAZING FOR TOWER SUBMTLS.	18DEC94	17DEC94	21JUL94	20JUL94	-150
F122	60	60	1	0		FAB. WINDOW/GLAZING FOR TOWER	19DEC94	15MAR95	21JUL94	13OCT94	-103
D123	1	1	1	0		DELIVER HVAC EQUIP. @ GUARD TOWER	27DEC94	27DEC94	13OCT94	13OCT94	-49
D124	1	1	1	0		DELIVER FLOOR HATCHES FOR TOWERS	19JAN95	19JAN95	19OCT94	19OCT94	-60
D122	1	1	1	0		DELIVER WINDOW/GLAZING FOR TOWER	16MAR95	16MAR95	14OCT94	14OCT94	-103
PH08E	0	0	2	0		PH/08 - COMPLETE G TOWERS 302-306 <= DAY 252		11JUL95		17JAN95*	-175
PH12E	0	0	2	0		PH/12 - COMPLETE G TOWERS 301 & 307 <= DAY 266		14AUG95		6FEB95*	-189
PH18E	0	0	2	0		PH/18 - COMPLETE G TOWERS 308 & 313 <= DAY 310		18SEP95		7APR95*	-164
PH23E	0	0	2	0		PH/23 - COMPLETE G TOWERS 309-312 <= DAY 341		24NOV95		22MAY95*	-186
G1114	2	1	1	50	12	PLUMBING UNDERGROUND	15DEC94A	30DEC94		21FEB95	35
G1214	2	1	1	50	13	PLUMBING UNDERGROUND	16DEC94A	4JAN95		9MAR95	45
G1316	2	2	1	0	09	STRUCTURAL TOWER STEEL ERECTION	19DEC94	20DEC94	22DEC94	23DEC94	3
G0916	2	2	1	0	10	STRUCTURAL TOWER STEEL ERECTION	21DEC94	22DEC94	11JAN95	12JAN95	13
G1016	2	2	1	0	11	STRUCTURAL TOWER STEEL ERECTION	23DEC94	27DEC94	30JAN95	31JAN95	23
G1116	2	2	1	0	12	STRUCTURAL TOWER STEEL ERECTION	28DEC94	29DEC94	15FEB95	16FEB95	33
G1216	2	2	1	0	13	STRUCTURAL TOWER STEEL ERECTION	30DEC94	3JAN95	3MAR95	6MAR95	43
G0118	2	2	1	0	06	REBAR AT SOG	19DEC94	20DEC94	1NOV94	2NOV94	-31
G0718	2	2	1	0	07	REBAR AT SOG	21DEC94	22DEC94	18NOV94	21NOV94	-21
G0818	2	2	1	0	08	REBAR AT SOG	23DEC94	27DEC94	13DEC94	14DEC94	-8
G1318	2	2	1	0	09	REBAR AT SOG	28DEC94	29DEC94	30DEC94	3JAN95	2
G0918	2	2	1	0	10	REBAR AT SOG	30DEC94	3JAN95	19JAN95	20JAN95	12
G1018	2	2	1	0	11	REBAR AT SOG	4JAN95	5JAN95	6FEB95	7FEB95	22
G1118	2	2	1	0	12	REBAR AT SOG	6JAN95	9JAN95	22FEB95	23FEB95	32
G1218	2	2	1	0	13	REBAR AT SOG	10JAN95	11JAN95	10MAR95	13MAR95	42
G0120	2	2	1	0	06	METAL DECK INSTALLATION	19DEC94	20DEC94	27OCT94	28OCT94	-34
G0720	2	2	1	0	07	METAL DECK INSTALLATION	21DEC94	22DEC94	15NOV94	16NOV94	-24
G1320	2	2	1	0	09	METAL DECK INSTALLATION	23DEC94	27DEC94	27DEC94	28DEC94	1
G0920	2	2	1	0	10	METAL DECK INSTALLATION	28DEC94	29DEC94	13JAN95	17JAN95	11
G1020	2	2	1	0	11	METAL DECK INSTALLATION	30DEC94	3JAN95	1FEB95	2FEB95	21
G1120	2	2	1	0	12	METAL DECK INSTALLATION	4JAN95	5JAN95	17FEB95	20FEB95	31
G1220	2	2	1	0	13	METAL DECK INSTALLATION	6JAN95	9JAN95	7MAR95	8MAR95	41
G0122	2	2	1	0	06	FORM/POUR SOG	21DEC94	22DEC94	3NOV94	4NOV94	-31
G0722	2	2	1	0	07	FORM/POUR SOG	23DEC94	27DEC94	22NOV94	23NOV94	-21
G0822	2	2	1	0	08	FORM/POUR SOG	28DEC94	29DEC94	15DEC94	16DEC94	-8
G1322	2	2	1	0	09	FORM/POUR SOG	30DEC94	3JAN95	4JAN95	5JAN95	2
G0922	2	2	1	0	10	FORM/POUR SOG	4JAN95	5JAN95	23JAN95	24JAN95	12
G1022	2	2	1	0	11	FORM/POUR SOG	6JAN95	9JAN95	8FEB95	9FEB95	22
G1122	2	2	1	0	12	FORM/POUR SOG	10JAN95	11JAN95	24FEB95	27FEB95	32
G1222	2	2	1	0	13	FORM/POUR SOG	12JAN95	13JAN95	14MAR95	15MAR95	42
G0124	4	4	1	0	06	SLAB ON METAL DECK	21DEC94	27DEC94	31OCT94	3NOV94	-34
G0724	4	4	1	0	07	SLAB ON METAL DECK	28DEC94	3JAN95	17NOV94	22NOV94	-26
G0824	4	4	1	0	08	SLAB ON METAL DECK	4JAN95	9JAN95	12DEC94	15DEC94	-15
G1324	4	4	1	0	09	SLAB ON METAL DECK	10JAN95	13JAN95	29DEC94	4JAN95	-7
G0924	4	4	1	0	10	SLAB ON METAL DECK	17JAN95	20JAN95	18JAN95	23JAN95	1
G1024	4	4	1	0	11	SLAB ON METAL DECK	23JAN95	26JAN95	3FEB95	8FEB95	9
G1124	4	4	1	0	12	SLAB ON METAL DECK	27JAN95	1FEB95	21FEB95	24FEB95	17
G1224	4	4	1	0	13	SLAB ON METAL DECK	2FEB95	7FEB95	9MAR95	14MAR95	25
G0226	2	2	1	0	01	BACKFILL AT SOG	19DEC94	20DEC94	26SEP94	27SEP94	-57
G0326	2	2	1	0	02	BACKFILL AT SOG	21DEC94	22DEC94	3OCT94	4OCT94	-54
G0426	2	2	1	0	03	BACKFILL AT SOG	23DEC94	27DEC94	10OCT94	11OCT94	-51
G0526	2	2	1	0	04	BACKFILL AT SOG	28DEC94	29DEC94	17OCT94	18OCT94	-48
G0626	2	2	1	0	05	BACKFILL AT SOG	30DEC94	3JAN95	24OCT94	25OCT94	-45
G0126	2	2	1	0	06	BACKFILL AT SOG	4JAN95	5JAN95	7NOV94	8NOV94	-37
G0726	2	2	1	0	07	BACKFILL AT SOG	6JAN95	9JAN95	28NOV94	29NOV94	-27
G0826	2	2	1	0	08	BACKFILL AT SOG	10JAN95	11JAN95	19DEC94	20DEC94	-14
G1326	2	2	1	0	09	BACKFILL AT SOG	12JAN95	13JAN95	6JAN95	9JAN95	-4
G0926	2	2	1	0	10	BACKFILL AT SOG	17JAN95	18JAN95	25JAN95	26JAN95	6
G1026	2	2	1	0	11	BACKFILL AT SOG	19JAN95	20JAN95	10FEB95	13FEB95	16
G1126	2	2	1	0	12	BACKFILL AT SOG	23JAN95	24JAN95	28FEB95	1MAR95	26
G1226	2	2	1	0	13	BACKFILL AT SOG	25JAN95	26JAN95	16MAR95	17MAR95	36
G0228	10	10	1	0	01	METAL ROOF/SIDING	19DEC94	3JAN95	23SEP94	6OCT94	-58
G0328	10	10	1	0	02	METAL ROOF/SIDING	4JAN95	18JAN95	30SEP94	13OCT94	-63
G0428	10	10	1	0	03	METAL ROOF/SIDING	19JAN95	1FEB95	7OCT94	20OCT94	-68

Figure 9.28 - Case 3, Status as of December 18, 1994.

CALIFORNIA STATE PRISON - SUSANVILLE

PRIMAVERA PROJECT PLANNER

BID PACKAGE 3 - GUARD TOWER

REPORT DATE 20SEP95 RUN NO. 61

***** M C C A R T H Y *****

START DATE 18JAN94 FIN DATE 22MAY95*

12:22

Dec. 94 Update by Typical Activity & ES

DATA DATE 18DEC94 PAGE NO. 2

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0528	10	10	1	0	04	METAL ROOF/SIDING	2FEB95	15FEB95	14OCT94	27OCT94	-73
G0628	10	10	1	0	05	METAL ROOF/SIDING	16FEB95	1MAR95	21OCT94	3NOV94	-78
G0128	10	10	1	0	06	METAL ROOF/SIDING	2MAR95	15MAR95	4NOV94	18NOV94	-78
G0728	10	10	1	0	07	METAL ROOF/SIDING	16MAR95	29MAR95	23NOV94	8DEC94	-76
G0828	10	10	1	0	08	METAL ROOF/SIDING	30MAR95	12APR95	16DEC94	30DEC94	-71
G1328	10	10	1	0	09	METAL ROOF/SIDING	13APR95	26APR95	5JAN95	19JAN95	-69
G0928	10	10	1	0	10	METAL ROOF/SIDING	27APR95	10MAY95	24JAN95	6FEB95	-67
G1028	10	10	1	0	11	METAL ROOF/SIDING	11MAY95	24MAY95	9FEB95	22FEB95	-65
G1128	10	10	1	0	12	METAL ROOF/SIDING	25MAY95	8JUN95	27FEB95	10MAR95	-63
G1228	10	10	1	0	13	METAL ROOF/SIDING	9JUN95	22JUN95	15MAR95	28MAR95	-61
G0230	2	2	1	0	01	INSTALL HOLLOW METAL	4JAN95	5JAN95	7OCT94	10OCT94	-58
G0330	2	2	1	0	02	INSTALL HOLLOW METAL	19JAN95	20JAN95	14OCT94	17OCT94	-63
G0430	2	2	1	0	03	INSTALL HOLLOW METAL	2FEB95	3FEB95	21OCT94	24OCT94	-68
G0530	2	2	1	0	04	INSTALL HOLLOW METAL	16FEB95	17FEB95	28OCT94	31OCT94	-73
G0630	2	2	1	0	05	INSTALL HOLLOW METAL	2MAR95	3MAR95	4NOV94	7NOV94	-78
G0130	2	2	1	0	06	INSTALL HOLLOW METAL	16MAR95	17MAR95	21NOV94	22NOV94	-78
G0730	2	2	1	0	07	INSTALL HOLLOW METAL	30MAR95	31MAR95	9DEC94	12DEC94	-76
G0830	2	2	1	0	08	INSTALL HOLLOW METAL	13APR95	14APR95	3JAN95	4JAN95	-71
G1330	2	2	1	0	09	INSTALL HOLLOW METAL	27APR95	28APR95	20JAN95	23JAN95	-69
G0930	2	2	1	0	10	INSTALL HOLLOW METAL	11MAY95	12MAY95	7FEB95	8FEB95	-67
G1030	2	2	1	0	11	INSTALL HOLLOW METAL	25MAY95	26MAY95	23FEB95	24FEB95	-65
G1130	2	2	1	0	12	INSTALL HOLLOW METAL	9JUN95	12JUN95	13MAR95	14MAR95	-63
G1230	2	2	1	0	13	INSTALL HOLLOW METAL	23JUN95	26JUN95	29MAR95	30MAR95	-61
G0232	3	3	1	0	01	INSTALL ALUM FRAMES/GLASS/GLAZING	17MAR95	21MAR95	17OCT94	19OCT94	-103
G0332	3	3	1	0	02	INSTALL ALUM FRAMES/GLASS/GLAZING	22MAR95	24MAR95	25OCT94	27OCT94	-100
G0432	3	3	1	0	03	INSTALL ALUM FRAMES/GLASS/GLAZING	27MAR95	29MAR95	31OCT94	2NOV94	-95
G0532	3	3	1	0	04	INSTALL ALUM FRAMES/GLASS/GLAZING	30MAR95	3APR95	9NOV94	14NOV94	-95
G0632	3	3	1	0	05	INSTALL ALUM FRAMES/GLASS/GLAZING	4APR95	6APR95	15NOV94	17NOV94	-95
G0132	3	3	1	0	06	INSTALL ALUM FRAMES/GLASS/GLAZING	7APR95	11APR95	1DEC94	5DEC94	-88
G0732	3	3	1	0	07	INSTALL ALUM FRAMES/GLASS/GLAZING	12APR95	14APR95	19DEC94	21DEC94	-79
G0832	3	3	1	0	08	INSTALL ALUM FRAMES/GLASS/GLAZING	17APR95	19APR95	11JAN95	13JAN95	-67
G1332	3	3	1	0	09	INSTALL ALUM FRAMES/GLASS/GLAZING	27APR95	1MAY95	30JAN95	1FEB95	-63
G0932	3	3	1	0	10	INSTALL ALUM FRAMES/GLASS/GLAZING	11MAY95	15MAY95	15FEB95	17FEB95	-61
G1032	3	3	1	0	11	INSTALL ALUM FRAMES/GLASS/GLAZING	25MAY95	30MAY95	3MAR95	7MAR95	-59
G1132	3	3	1	0	12	INSTALL ALUM FRAMES/GLASS/GLAZING	9JUN95	13JUN95	21MAR95	23MAR95	-57
G1232	3	3	1	0	13	INSTALL ALUM FRAMES/GLASS/GLAZING	23JUN95	27JUN95	6APR95	10APR95	-55
G0234	2	2	1	0	01	INTERIOR FRAMING	6JAN95	9JAN95	11OCT94	12OCT94	-58
G0334	2	2	1	0	02	INTERIOR FRAMING	23JAN95	24JAN95	18OCT94	19OCT94	-63
G0434	2	2	1	0	03	INTERIOR FRAMING	6FEB95	7FEB95	25OCT94	26OCT94	-68
G0534	2	2	1	0	04	INTERIOR FRAMING	20FEB95	21FEB95	1NOV94	2NOV94	-73
G0634	2	2	1	0	05	INTERIOR FRAMING	6MAR95	7MAR95	8NOV94	9NOV94	-78
G0134	2	2	1	0	06	INTERIOR FRAMING	20MAR95	21MAR95	23NOV94	28NOV94	-78
G0734	2	2	1	0	07	INTERIOR FRAMING	3APR95	4APR95	13DEC94	14DEC94	-76
G0834	2	2	1	0	08	INTERIOR FRAMING	17APR95	18APR95	5JAN95	6JAN95	-71
G1334	2	2	1	0	09	INTERIOR FRAMING	1MAY95	2MAY95	24JAN95	25JAN95	-69
G0934	2	2	1	0	10	INTERIOR FRAMING	15MAY95	16MAY95	9FEB95	10FEB95	-67
G1034	2	2	1	0	11	INTERIOR FRAMING	30MAY95	31MAY95	27FEB95	28FEB95	-65
G1134	2	2	1	0	12	INTERIOR FRAMING	13JUN95	14JUN95	15MAR95	16MAR95	-63
G1234	2	2	1	0	13	INTERIOR FRAMING	27JUN95	28JUN95	31MAR95	3APR95	-61
G0236	2	2	1	50	01	PLUMBING ROUGH-IN	9DEC94A	10JAN95		19OCT94	-54
G0336	2	2	1	50	02	PLUMBING ROUGH-IN	12DEC94A	25JAN95		27OCT94	-58
G0436	2	2	1	50	03	PLUMBING ROUGH-IN	13DEC94A	8FEB95		2NOV94	-64
G0536	2	2	1	50	04	PLUMBING ROUGH-IN	14DEC94A	22FEB95		15NOV94	-66
G0636	2	2	1	50	05	PLUMBING ROUGH-IN	15DEC94A	8MAR95		17NOV94	-74
G0136	2	2	1	50	06	PLUMBING ROUGH-IN	16DEC94A	22MAR95		5DEC94	-74
G0736	2	2	1	0	07	PLUMBING ROUGH-IN	5APR95	6APR95	20DEC94	21DEC94	-73
G0836	2	2	1	0	08	PLUMBING ROUGH-IN	19APR95	20APR95	12JAN95	13JAN95	-68
G1336	2	2	1	0	09	PLUMBING ROUGH-IN	3MAY95	4MAY95	31JAN95	1FEB95	-66
G0936	2	2	1	0	10	PLUMBING ROUGH-IN	17MAY95	18MAY95	16FEB95	17FEB95	-64
G1036	2	2	1	0	11	PLUMBING ROUGH-IN	1JUN95	2JUN95	6MAR95	7MAR95	-62
G1136	2	2	1	0	12	PLUMBING ROUGH-IN	15JUN95	16JUN95	22MAR95	23MAR95	-60
G1236	2	2	1	0	13	PLUMBING ROUGH-IN	29JUN95	30JUN95	7APR95	10APR95	-58
G0238	2	2	1	0	01	INSTALL DOORS/HARDWARE	10JAN95	11JAN95	4NOV94	7NOV94	-42
G0338	2	2	1	0	02	INSTALL DOORS/HARDWARE	25JAN95	26JAN95	9NOV94	10NOV94	-49
G0438	2	2	1	0	03	INSTALL DOORS/HARDWARE	8FEB95	9FEB95	23NOV94	28NOV94	-50

Figure 9.28 - Case 3, Status as of December 18, 1994 (Continued).

REPORT DATE 20SEP95 RUN NO. 61

*****MCCARTHY*****

START DATE 18JAN94 FIN DATE 22MAY95*

12:22

Dec. 94 Update by Typical Activity & ES

DATA DATE 18DEC94 PAGE NO. 3

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0538	2	2	1	0	04	INSTALL DOORS/HARDWARE	22FEB95	23FEB95	30NOV94	1DEC94	-57
G0638	2	2	1	0	05	INSTALL DOORS/HARDWARE	8MAR95	9MAR95	13DEC94	14DEC94	-58
G0138	2	2	1	0	06	INSTALL DOORS/HARDWARE	22MAR95	23MAR95	16DEC94	19DEC94	-65
G0738	2	2	1	0	07	INSTALL DOORS/HARDWARE	5APR95	6APR95	5JAN95	6JAN95	-63
G0838	2	2	1	0	08	INSTALL DOORS/HARDWARE	19APR95	20APR95	27JAN95	30JAN95	-58
G1338	2	2	1	0	09	INSTALL DOORS/HARDWARE	3MAY95	4MAY95	14FEB95	15FEB95	-56
G0938	2	2	1	0	10	INSTALL DOORS/HARDWARE	17MAY95	18MAY95	2MAR95	3MAR95	-54
G1038	2	2	1	0	11	INSTALL DOORS/HARDWARE	1JUN95	2JUN95	20MAR95	21MAR95	-52
G1138	2	2	1	0	12	INSTALL DOORS/HARDWARE	15JUN95	16JUN95	5APR95	6APR95	-50
G1238	2	2	1	0	13	INSTALL DOORS/HARDWARE	29JUN95	30JUN95	21APR95	24APR95	-48
G0240	4	4	1	0	01	MECHANICAL ROUGH-IN	10JAN95	13JAN95	14OCT94	19OCT94	-57
G0340	4	4	1	0	02	MECHANICAL ROUGH-IN	25JAN95	30JAN95	24OCT94	27OCT94	-61
G0440	4	4	1	0	03	MECHANICAL ROUGH-IN	8FEB95	13FEB95	28OCT94	2NOV94	-67
G0540	4	4	1	0	04	MECHANICAL ROUGH-IN	22FEB95	27FEB95	7NOV94	10NOV94	-71
G0640	4	4	1	0	05	MECHANICAL ROUGH-IN	8MAR95	13MAR95	14NOV94	17NOV94	-77
G0140	4	4	1	0	06	MECHANICAL ROUGH-IN	22MAR95	27MAR95	30NOV94	5DEC94	-77
G0740	4	4	1	0	07	MECHANICAL ROUGH-IN	5APR95	10APR95	16DEC94	21DEC94	-75
G0840	4	4	1	0	08	MECHANICAL ROUGH-IN	19APR95	24APR95	10JAN95	13JAN95	-70
G1340	4	4	1	0	09	MECHANICAL ROUGH-IN	3MAY95	8MAY95	27JAN95	1FEB95	-68
G0940	4	4	1	0	10	MECHANICAL ROUGH-IN	17MAY95	22MAY95	14FEB95	17FEB95	-66
G1040	4	4	1	0	11	MECHANICAL ROUGH-IN	1JUN95	6JUN95	2MAR95	7MAR95	-64
G1140	4	4	1	0	12	MECHANICAL ROUGH-IN	15JUN95	20JUN95	20MAR95	23MAR95	-62
G1240	4	4	1	0	13	MECHANICAL ROUGH-IN	29JUN95	5JUL95	5APR95	10APR95	-60
G0242	5	5	1	0	01	ELECTRICAL ROUGH-IN	10JAN95	17JAN95	13OCT94	19OCT94	-58
G0342	5	5	1	0	02	ELECTRICAL ROUGH-IN	25JAN95	31JAN95	20OCT94	26OCT94	-63
G0442	5	5	1	0	03	ELECTRICAL ROUGH-IN	8FEB95	14FEB95	27OCT94	2NOV94	-68
G0542	5	5	1	0	04	ELECTRICAL ROUGH-IN	22FEB95	28FEB95	3NOV94	9NOV94	-73
G0642	5	5	1	0	05	ELECTRICAL ROUGH-IN	8MAR95	14MAR95	10NOV94	17NOV94	-78
G0142	5	5	1	0	06	ELECTRICAL ROUGH-IN	22MAR95	28MAR95	29NOV94	5DEC94	-78
G0742	5	5	1	0	07	ELECTRICAL ROUGH-IN	5APR95	11APR95	15DEC94	21DEC94	-76
G0842	5	5	1	0	08	ELECTRICAL ROUGH-IN	19APR95	25APR95	9JAN95	13JAN95	-71
G1342	5	5	1	0	09	ELECTRICAL ROUGH-IN	3MAY95	9MAY95	26JAN95	1FEB95	-69
G0942	5	5	1	0	10	ELECTRICAL ROUGH-IN	17MAY95	23MAY95	13FEB95	17FEB95	-67
G1042	5	5	1	0	11	ELECTRICAL ROUGH-IN	1JUN95	7JUN95	1MAR95	7MAR95	-65
G1142	5	5	1	0	12	ELECTRICAL ROUGH-IN	15JUN95	21JUN95	17MAR95	23MAR95	-63
G1242	5	5	1	0	13	ELECTRICAL ROUGH-IN	29JUN95	6JUL95	4APR95	10APR95	-61
G0244	10	10	1	0	01	INTERIOR FINISHES	22MAR95	4APR95	20OCT94	2NOV94	-103
G0344	10	10	1	0	02	INTERIOR FINISHES	5APR95	18APR95	28OCT94	10NOV94	-107
G0444	10	10	1	0	03	INTERIOR FINISHES	19APR95	2MAY95	3NOV94	17NOV94	-113
G0544	10	10	1	0	04	INTERIOR FINISHES	3MAY95	16MAY95	16NOV94	1DEC94	-115
G0644	10	10	1	0	05	INTERIOR FINISHES	17MAY95	31MAY95	18NOV94	5DEC94	-123
G0144	10	10	1	0	06	INTERIOR FINISHES	1JUN95	14JUN95	6DEC94	19DEC94	-123
G0744	10	10	1	0	07	INTERIOR FINISHES	15JUN95	28JUN95	22DEC94	6JAN95	-121
G0844	10	10	1	0	08	INTERIOR FINISHES	29JUN95	13JUL95	17JAN95	30JAN95	-116
G1344	10	10	1	0	09	INTERIOR FINISHES	14JUL95	27JUL95	2FEB95	15FEB95	-114
G0944	10	10	1	0	10	INTERIOR FINISHES	28JUL95	10AUG95	20FEB95	3MAR95	-112
G1044	10	10	1	0	11	INTERIOR FINISHES	11AUG95	24AUG95	8MAR95	21MAR95	-110
G1144	10	10	1	0	12	INTERIOR FINISHES	25AUG95	8SEP95	24MAR95	6APR95	-108
G1244	10	10	1	0	13	INTERIOR FINISHES	11SEP95	22SEP95	11APR95	24APR95	-106
G0246	2	2	1	0	01	PAINT	5APR95	6APR95	8NOV94	9NOV94	-100
G0346	2	2	1	0	02	PAINT	19APR95	20APR95	14NOV94	15NOV94	-107
G0446	2	2	1	0	03	PAINT	3MAY95	4MAY95	29NOV94	30NOV94	-108
G0546	2	2	1	0	04	PAINT	17MAY95	18MAY95	2DEC94	5DEC94	-115
G0646	2	2	1	0	05	PAINT	1JUN95	2JUN95	15DEC94	16DEC94	-116
G0146	2	2	1	0	06	PAINT	15JUN95	16JUN95	20DEC94	21DEC94	-123
G0746	2	2	1	0	07	PAINT	29JUN95	30JUN95	9JAN95	10JAN95	-121
G0846	2	2	1	0	08	PAINT	14JUL95	17JUL95	31JAN95	1FEB95	-116
G1346	2	2	1	0	09	PAINT	28JUL95	31JUL95	16FEB95	17FEB95	-114
G0946	2	2	1	0	10	PAINT	11AUG95	14AUG95	6MAR95	7MAR95	-112
G1046	2	2	1	0	11	PAINT	25AUG95	28AUG95	22MAR95	23MAR95	-110
G1146	2	2	1	0	12	PAINT	11SEP95	12SEP95	7APR95	10APR95	-108
G1246	2	2	1	0	13	PAINT	25SEP95	26SEP95	25APR95	26APR95	-106
G0250	3	3	1	0	01	MECHANICAL FINISH	7APR95	11APR95	10NOV94	15NOV94	-100
G0350	3	3	1	0	02	MECHANICAL FINISH	21APR95	25APR95	16NOV94	18NOV94	-107
G0450	3	3	1	0	03	MECHANICAL FINISH	5MAY95	9MAY95	1DEC94	5DEC94	-108

Figure 9.28 - Case 3, Status as of December 18, 1994 (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE

PRIMAVERA PROJECT PLANNER

BID PACKAGE 3 - GUARD TOWER

REPORT DATE 20SEP95 RUN NO. 61

***** M C C A R T H Y *****

START DATE 18JAN94 FIN DATE 22MAY95*

12:22

Dec. 94 Update by Typical Activity & ES

DATA DATE 18DEC94 PAGE NO. 4

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0550	3	3	1	0	04	MECHANICAL FINISH	19MAY95	23MAY95	6DEC94	8DEC94	-115
G0650	3	3	1	0	05	MECHANICAL FINISH	5JUN95	7JUN95	19DEC94	21DEC94	-116
G0150	3	3	1	0	06	MECHANICAL FINISH	19JUN95	21JUN95	22DEC94	27DEC94	-123
G0750	3	3	1	0	07	MECHANICAL FINISH	3JUL95	6JUL95	11JAN95	13JAN95	-121
G0850	3	3	1	0	08	MECHANICAL FINISH	18JUL95	20JUL95	2FEB95	6FEB95	-116
G1350	3	3	1	0	09	MECHANICAL FINISH	1AUG95	3AUG95	20FEB95	22FEB95	-114
G0950	3	3	1	0	10	MECHANICAL FINISH	15AUG95	17AUG95	8MAR95	10MAR95	-112
G1050	3	3	1	0	11	MECHANICAL FINISH	29AUG95	31AUG95	24MAR95	28MAR95	-110
G1150	3	3	1	0	12	MECHANICAL FINISH	13SEP95	15SEP95	11APR95	13APR95	-108
G1250	3	3	1	0	13	MECHANICAL FINISH	27SEP95	29SEP95	27APR95	1MAY95	-106
G0252	3	3	1	0	01	PLUMBING FINISH	7APR95	11APR95	10NOV94	15NOV94	-100
G0352	3	3	1	0	02	PLUMBING FINISH	21APR95	25APR95	16NOV94	18NOV94	-107
G0452	3	3	1	0	03	PLUMBING FINISH	5MAY95	9MAY95	1DEC94	5DEC94	-108
G0552	3	3	1	0	04	PLUMBING FINISH	19MAY95	23MAY95	6DEC94	8DEC94	-115
G0652	3	3	1	0	05	PLUMBING FINISH	5JUN95	7JUN95	19DEC94	21DEC94	-116
G0152	3	3	1	0	06	PLUMBING FINISH	19JUN95	21JUN95	22DEC94	27DEC94	-123
G0752	3	3	1	0	07	PLUMBING FINISH	3JUL95	6JUL95	11JAN95	13JAN95	-121
G0852	3	3	1	0	08	PLUMBING FINISH	18JUL95	20JUL95	2FEB95	6FEB95	-116
G1352	3	3	1	0	09	PLUMBING FINISH	1AUG95	3AUG95	20FEB95	22FEB95	-114
G0952	3	3	1	0	10	PLUMBING FINISH	15AUG95	17AUG95	8MAR95	10MAR95	-112
G1052	3	3	1	0	11	PLUMBING FINISH	29AUG95	31AUG95	24MAR95	28MAR95	-110
G1152	3	3	1	0	12	PLUMBING FINISH	13SEP95	15SEP95	11APR95	13APR95	-108
G1252	3	3	1	0	13	PLUMBING FINISH	27SEP95	29SEP95	27APR95	1MAY95	-106
G0254	3	3	1	0	01	ELECTRICAL FINISH	7APR95	11APR95	10NOV94	15NOV94	-100
G0354	3	3	1	0	02	ELECTRICAL FINISH	21APR95	25APR95	16NOV94	18NOV94	-107
G0454	3	3	1	0	03	ELECTRICAL FINISH	5MAY95	9MAY95	1DEC94	5DEC94	-108
G0554	3	3	1	0	04	ELECTRICAL FINISH	19MAY95	23MAY95	6DEC94	8DEC94	-115
G0654	3	3	1	0	05	ELECTRICAL FINISH	5JUN95	7JUN95	19DEC94	21DEC94	-116
G0154	3	3	1	0	06	ELECTRICAL FINISH	19JUN95	21JUN95	22DEC94	27DEC94	-123
G0754	3	3	1	0	07	ELECTRICAL FINISH	3JUL95	6JUL95	11JAN95	13JAN95	-121
G0854	3	3	1	0	08	ELECTRICAL FINISH	18JUL95	20JUL95	2FEB95	6FEB95	-116
G1354	3	3	1	0	09	ELECTRICAL FINISH	1AUG95	3AUG95	20FEB95	22FEB95	-114
G0954	3	3	1	0	10	ELECTRICAL FINISH	15AUG95	17AUG95	8MAR95	10MAR95	-112
G1054	3	3	1	0	11	ELECTRICAL FINISH	29AUG95	31AUG95	24MAR95	28MAR95	-110
G1154	3	3	1	0	12	ELECTRICAL FINISH	13SEP95	15SEP95	11APR95	13APR95	-108
G1254	3	3	1	0	13	ELECTRICAL FINISH	27SEP95	29SEP95	27APR95	1MAY95	-106
G0256	15	15	1	0	01	PUNCHLIST	12APR95	2MAY95	17NOV94	9DEC94	-99
G0356	15	15	1	0	02	PUNCHLIST	28APR95	18MAY95	21NOV94	13DEC94	-109
G0456	15	15	1	0	03	PUNCHLIST	16MAY95	6JUN95	7DEC94	28DEC94	-111
G0556	15	15	1	0	04	PUNCHLIST	2JUN95	22JUN95	9DEC94	30DEC94	-121
G0656	15	15	1	0	05	PUNCHLIST	20JUN95	11JUL95	23DEC94	17JAN95	-123
G0156	15	15	1	0	06	PUNCHLIST	7JUL95	27JUL95	28DEC94	19JAN95	-133
G0756	15	15	1	0	07	PUNCHLIST	25JUL95	14AUG95	17JAN95	6FEB95	-133
G0856	15	15	1	0	08	PUNCHLIST	10AUG95	30AUG95	7FEB95	27FEB95	-130
G1356	15	15	1	0	09	PUNCHLIST	28AUG95	18SEP95	23FEB95	15MAR95	-130
G0956	15	15	1	0	10	PUNCHLIST	14SEP95	4OCT95	13MAR95	31MAR95	-130
G1056	15	15	1	0	11	PUNCHLIST	20OCT95	20OCT95	29MAR95	18APR95	-130
G1156	15	15	1	0	12	PUNCHLIST	18OCT95	7NOV95	14APR95	4MAY95	-130
G1256	15	15	1	0	13	PUNCHLIST	3NOV95	24NOV95	2MAY95	22MAY95	-130

Figure 9.28 - Case 3, Status as of December 18, 1994 (Continued).

Thirteen Guard Towers

Figure 9.29 - Case 3, Progress Regularity as of December 18, 1994.

Thirteen Guard Towers

Figure 9.29 - Case 3, Progress Regularity as of December 18, 1994 (Continued).

Thirteen Guard Towers

Figure 9.29 - Case 3, Progress Regularity as of December 18, 1994 (Continued).

Thirteen Guard Towers

Typical Activities

Figure 9.29 - Case 3, Progress Regularity as of December 18, 1994 (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE	PRIMAVERA PROJECT PLANNER	BID PACKAGE 3 - GUARD TOWER
REPORT DATE 20SEP95 RUN NO. 94	***** M C C A R T H Y *****	START DATE 18JAN94 FIN DATE 22JUN95*
10:24		
EF of Current 1st Units, by EF then Priority		DATA DATE 18DEC94 PAGE NO. 1

ACTIVITY ID	ORIG	REN	DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATE FINISH
14									
G1114	2	1	1	50		10	PLUMBING UNDERGROUND	21DEC94	10APR95
						WORKPERIOD		236	311
G1214	2	1	1	50		13	PLUMBING UNDERGROUND	21DEC94	10APR95
						WORKPERIOD		236	311
16									
G1316	2	2	1	0		08	STRUCTURAL TOWER STEEL ERECTION	20DEC94	5APR95
						WORKPERIOD		235	308
G1116	2	2	1	0		10	STRUCTURAL TOWER STEEL ERECTION	20DEC94	5APR95
						WORKPERIOD		235	308
G1016	2	2	1	0		11	STRUCTURAL TOWER STEEL ERECTION	20DEC94	5APR95
						WORKPERIOD		235	308
G0916	2	2	1	0		12	STRUCTURAL TOWER STEEL ERECTION	20DEC94	5APR95
						WORKPERIOD		235	308
G1216	2	2	1	0		13	STRUCTURAL TOWER STEEL ERECTION	20DEC94	5APR95
						WORKPERIOD		235	308
18									
G0118	2	2	1	0		06	REBAR AT SOG	20DEC94	12APR95
						WORKPERIOD		235	313
G0718	2	2	1	0		07	REBAR AT SOG	20DEC94	12APR95
						WORKPERIOD		235	313
G0818	2	2	1	0		09	REBAR AT SOG	20DEC94	12APR95
						WORKPERIOD		235	313
G1318	2	2	1	0		08	REBAR AT SOG	22DEC94	12APR95
						WORKPERIOD		237	313
G1018	2	2	1	0		11	REBAR AT SOG	22DEC94	12APR95
						WORKPERIOD		237	313
G0918	2	2	1	0		12	REBAR AT SOG	22DEC94	12APR95
						WORKPERIOD		237	313
G1118	2	2	1	0		10	REBAR AT SOG	23DEC94	12APR95
						WORKPERIOD		238	313
G1218	2	2	1	0		13	REBAR AT SOG	23DEC94	12APR95
						WORKPERIOD		238	313
20									
G0120	2	2	1	0		06	METAL DECK INSTALLATION	20DEC94	7APR95
						WORKPERIOD		235	310
G0720	2	2	1	0		07	METAL DECK INSTALLATION	20DEC94	7APR95
						WORKPERIOD		235	310
G1320	2	2	1	0		08	METAL DECK INSTALLATION	22DEC94	7APR95
						WORKPERIOD		237	310
G1120	2	2	1	0		10	METAL DECK INSTALLATION	22DEC94	7APR95
						WORKPERIOD		237	310
G1020	2	2	1	0		11	METAL DECK INSTALLATION	22DEC94	7APR95
						WORKPERIOD		237	310
G0920	2	2	1	0		12	METAL DECK INSTALLATION	22DEC94	7APR95
						WORKPERIOD		237	310
G1220	2	2	1	0		13	METAL DECK INSTALLATION	22DEC94	7APR95
						WORKPERIOD		237	310
22									
G0122	2	2	1	0		06	FORM/POUR SOG	22DEC94	14APR95
						WORKPERIOD		237	315
G0722	2	2	1	0		07	FORM/POUR SOG	22DEC94	14APR95
						WORKPERIOD		237	315
G0822	2	2	1	0		09	FORM/POUR SOG	22DEC94	14APR95
						WORKPERIOD		237	315
G1322	2	2	1	0		08	FORM/POUR SOG	27DEC94	14APR95
						WORKPERIOD		239	315
G1022	2	2	1	0		11	FORM/POUR SOG	27DEC94	14APR95
						WORKPERIOD		239	315
G0922	2	2	1	0		12	FORM/POUR SOG	27DEC94	14APR95
						WORKPERIOD		239	315
G1122	2	2	1	0		10	FORM/POUR SOG	28DEC94	14APR95
						WORKPERIOD		240	315
G1222	2	2	1	0		13	FORM/POUR SOG	28DEC94	14APR95
						WORKPERIOD		240	315

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations.

CALIFORNIA STATE PRISON - SUSANVILLE

PRIMAVERA PROJECT PLANNER

BID PACKAGE 3 - GUARD TOWER

REPORT DATE 20SEP95 RUN NO. 94

*****MCCARTHY*****

START DATE 18JAN94 FIN DATE 22JUN95*

10:24

EF of Current 1st Units, by EF then priority

DATA DATE 18DEC94 PAGE NO. 2

ACTIVITY ID	ORIG DUR	REN DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATE FINISH
24								
G0824	4	4	1	0	09	SLAB ON METAL DECK	22DEC94	13APR95
					WORKPERIOD	237	314	
G0124	4	4	1	0	06	SLAB ON METAL DECK	27DEC94	13APR95
					WORKPERIOD	239	314	
GC.24	4	4	1	0	07	SLAB ON METAL DECK	27DEC94	13APR95
					WORKPERIOD	239	314	
G1324	4	4	1	0	08	SLAB ON METAL DECK	29DEC94	13APR95
					WORKPERIOD	241	314	
G1124	4	4	1	0	10	SLAB ON METAL DECK	29DEC94	13APR95
					WORKPERIOD	241	314	
G1024	4	4	1	0	11	SLAB ON METAL DECK	29DEC94	13APR95
					WORKPERIOD	241	314	
G0924	4	4	1	0	12	SLAB ON METAL DECK	29DEC94	13APR95
					WORKPERIOD	241	314	
G1224	4	4	1	0	13	SLAB ON METAL DECK	29DEC94	13APR95
					WORKPERIOD	241	314	
26								
G0226	2	2	1	0	01	BACKFILL AT SOG	20DEC94	18APR95
					WORKPERIOD	235	317	
G0326	2	2	1	0	02	BACKFILL AT SOG	20DEC94	18APR95
					WORKPERIOD	235	317	
G0426	2	2	1	0	03	BACKFILL AT SOG	20DEC94	18APR95
					WORKPERIOD	235	317	
G0526	2	2	1	0	04	BACKFILL AT SOG	20DEC94	18APR95
					WORKPERIOD	235	317	
G0626	2	2	1	0	05	BACKFILL AT SOG	20DEC94	18APR95
					WORKPERIOD	235	317	
G0126	2	2	1	0	06	BACKFILL AT SOG	27DEC94	18APR95
					WORKPERIOD	239	317	
G0726	2	2	1	0	07	BACKFILL AT SOG	27DEC94	18APR95
					WORKPERIOD	239	317	
G0826	2	2	1	0	09	BACKFILL AT SOG	27DEC94	18APR95
					WORKPERIOD	239	317	
G1326	2	2	1	0	08	BACKFILL AT SOG	29DEC94	18APR95
					WORKPERIOD	241	317	
G1026	2	2	1	0	11	BACKFILL AT SOG	29DEC94	18APR95
					WORKPERIOD	241	317	
G0926	2	2	1	0	12	BACKFILL AT SOG	29DEC94	18APR95
					WORKPERIOD	241	317	
G1126	2	2	1	0	10	BACKFILL AT SOG	30DEC94	18APR95
					WORKPERIOD	242	317	
G1226	2	2	1	0	13	BACKFILL AT SOG	30DEC94	18APR95
					WORKPERIOD	242	317	
28								
G0228	10	10	1	0	01	METAL ROOF/SIDING	3JAN95	27APR95
					WORKPERIOD	243	324	
G0328	10	10	1	0	02	METAL ROOF/SIDING	3JAN95	27APR95
					WORKPERIOD	243	324	
G0428	10	10	1	0	03	METAL ROOF/SIDING	3JAN95	27APR95
					WORKPERIOD	243	324	
G0528	10	10	1	0	04	METAL ROOF/SIDING	3JAN95	27APR95
					WORKPERIOD	243	324	
G0628	10	10	1	0	05	METAL ROOF/SIDING	3JAN95	27APR95
					WORKPERIOD	243	324	
G0828	10	10	1	0	09	METAL ROOF/SIDING	9JAN95	27APR95
					WORKPERIOD	247	324	
G0128	10	10	1	0	06	METAL ROOF/SIDING	11JAN95	27APR95
					WORKPERIOD	249	324	
G0728	10	10	1	0	07	METAL ROOF/SIDING	11JAN95	27APR95
					WORKPERIOD	249	324	
G1328	10	10	1	0	08	METAL ROOF/SIDING	13JAN95	27APR95
					WORKPERIOD	251	324	
G1128	10	10	1	0	10	METAL ROOF/SIDING	13JAN95	27APR95
					WORKPERIOD	251	324	

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE PRIMAVERA PROJECT PLANNER BID PACKAGE 3 - GUARD TOWER
 REPORT DATE 20SEP95 RUN NO. 94 *****M c C A R T H Y***** START DATE 18JAN94 FIN DATE 22JUN95*
 10:24
 EF of Current Units, by EF then Priority DATA DATE 18DEC94 PAGE NO. 3

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATE FINISH
28								
G1028	10	10	1	0	11	METAL ROOF/SIDING	13JAN95	27APR95
					WORKPERIOD	251	324	
G0928	10	10	1	0	12	METAL ROOF/SIDING	13JAN95	27APR95
					WORKPERIOD	251	324	
G1228	10	10	1	0	13	METAL ROOF/SIDING	13JAN95	27APR95
					WORKPERIOD	251	324	
30								
G0230	2	2	1	0	01	INSTALL HOLLOW METAL	5JAN95	1MAY95
					WORKPERIOD	245	326	
G0330	2	2	1	0	02	INSTALL HOLLOW METAL	5JAN95	1MAY95
					WORKPERIOD	245	326	
G0430	2	2	1	0	03	INSTALL HOLLOW METAL	5JAN95	1MAY95
					WORKPERIOD	245	326	
G0530	2	2	1	0	04	INSTALL HOLLOW METAL	5JAN95	1MAY95
					WORKPERIOD	245	326	
G0630	2	2	1	0	05	INSTALL HOLLOW METAL	5JAN95	1MAY95
					WORKPERIOD	245	326	
G0830	2	2	1	0	09	INSTALL HOLLOW METAL	11JAN95	1MAY95
					WORKPERIOD	249	326	
G0130	2	2	1	0	06	INSTALL HOLLOW METAL	13JAN95	1MAY95
					WORKPERIOD	251	326	
G0730	2	2	1	0	07	INSTALL HOLLOW METAL	13JAN95	1MAY95
					WORKPERIOD	251	326	
G1330	2	2	1	0	08	INSTALL HOLLOW METAL	18JAN95	1MAY95
					WORKPERIOD	253	326	
G1130	2	2	1	0	10	INSTALL HOLLOW METAL	18JAN95	1MAY95
					WORKPERIOD	253	326	
G1030	2	2	1	0	11	INSTALL HOLLOW METAL	18JAN95	1MAY95
					WORKPERIOD	253	326	
G0930	2	2	1	0	12	INSTALL HOLLOW METAL	18JAN95	1MAY95
					WORKPERIOD	253	326	
G1230	2	2	1	0	13	INSTALL HOLLOW METAL	18JAN95	1MAY95
					WORKPERIOD	253	326	
32								
G0232	3	3	1	0	01	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0332	3	3	1	0	02	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0432	3	3	1	0	03	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0532	3	3	1	0	04	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0632	3	3	1	0	05	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0132	3	3	1	0	06	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0732	3	3	1	0	07	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G1332	3	3	1	0	08	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0832	3	3	1	0	09	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G1132	3	3	1	0	10	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G1032	3	3	1	0	11	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G0932	3	3	1	0	12	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
G1232	3	3	1	0	13	INSTALL ALUM FRAMES/GLASS/GLAZING	21MAR95	10MAY95
					WORKPERIOD	297	333	
34								
G0234	2	2	1	0	01	INTERIOR FRAMING	9JAN95	3MAY95
					WORKPERIOD	247	328	
G0334	2	2	1	0	02	INTERIOR FRAMING	9JAN95	3MAY95
					WORKPERIOD	247	328	

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE	PRIMAVERA PROJECT PLANNER	BID PACKAGE 3 - GUARD TOWER
REPORT DATE 20SEP95 RUN NO. 94	***** M C C A R T H Y *****	START DATE 18JAN94 FIN DATE 22JUN95*
10:24		
EF of Current 1st Units, by EF then Priority		DATA DATE 18DEC94 PAGE NO. 4

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATEST FINISH
34								
G0434	2	2	1	0	03	INTERIOR FRAMING	9JAN95	3MAY95
					WORKPERIOD	247	328	
G0534	2	2	1	0	04	INTERIOR FRAMING	9JAN95	3MAY95
					WORKPERIOD	247	328	
G0634	2	2	1	0	05	INTERIOR FRAMING	9JAN95	3MAY95
					WORKPERIOD	247	328	
G0834	2	2	1	0	09	INTERIOR FRAMING	13JAN95	3MAY95
					WORKPERIOD	251	328	
G0134	2	2	1	0	06	INTERIOR FRAMING	18JAN95	3MAY95
					WORKPERIOD	253	328	
G0734	2	2	1	0	07	INTERIOR FRAMING	18JAN95	3MAY95
					WORKPERIOD	253	328	
G1334	2	2	1	0	08	INTERIOR FRAMING	20JAN95	3MAY95
					WORKPERIOD	255	328	
G1134	2	2	1	0	10	INTERIOR FRAMING	20JAN95	3MAY95
					WORKPERIOD	255	328	
G1034	2	2	1	0	11	INTERIOR FRAMING	20JAN95	3MAY95
					WORKPERIOD	255	328	
G0934	2	2	1	0	12	INTERIOR FRAMING	20JAN95	3MAY95
					WORKPERIOD	255	328	
G1234	2	2	1	0	13	INTERIOR FRAMING	20JAN95	3MAY95
					WORKPERIOD	255	328	
36								
G0236	2	1	1	50	01	PLUMBING ROUGH-IN	10JAN95	10MAY95
					WORKPERIOD	248	333	
G0336	2	1	1	50	02	PLUMBING ROUGH-IN	10JAN95	10MAY95
					WORKPERIOD	248	333	
G0436	2	1	1	50	03	PLUMBING ROUGH-IN	10JAN95	10MAY95
					WORKPERIOD	248	333	
G0536	2	1	1	50	04	PLUMBING ROUGH-IN	10JAN95	10MAY95
					WORKPERIOD	248	333	
G0636	2	1	1	50	05	PLUMBING ROUGH-IN	10JAN95	10MAY95
					WORKPERIOD	248	333	
G0836	2	2	1	0	09	PLUMBING ROUGH-IN	18JAN95	10MAY95
					WORKPERIOD	253	333	
G0136	2	1	1	50	06	PLUMBING ROUGH-IN	19JAN95	10MAY95
					WORKPERIOD	254	333	
G0736	2	2	1	0	07	PLUMBING ROUGH-IN	20JAN95	10MAY95
					WORKPERIOD	255	333	
G1336	2	2	1	0	08	PLUMBING ROUGH-IN	24JAN95	10MAY95
					WORKPERIOD	257	333	
G1136	2	2	1	0	10	PLUMBING ROUGH-IN	24JAN95	10MAY95
					WORKPERIOD	257	333	
G1036	2	2	1	0	11	PLUMBING ROUGH-IN	24JAN95	10MAY95
					WORKPERIOD	257	333	
G0936	2	2	1	0	12	PLUMBING ROUGH-IN	24JAN95	10MAY95
					WORKPERIOD	257	333	
G1236	2	2	1	0	13	PLUMBING ROUGH-IN	24JAN95	10MAY95
					WORKPERIOD	257	333	
38								
G0238	2	2	1	0	01	INSTALL DOORS/HARDWARE	11JAN95	24MAY95
					WORKPERIOD	249	343	
G0338	2	2	1	0	02	INSTALL DOORS/HARDWARE	11JAN95	24MAY95
					WORKPERIOD	249	343	
G0438	2	2	1	0	03	INSTALL DOORS/HARDWARE	11JAN95	24MAY95
					WORKPERIOD	249	343	
G0538	2	2	1	0	04	INSTALL DOORS/HARDWARE	11JAN95	24MAY95
					WORKPERIOD	249	343	
G0638	2	2	1	0	05	INSTALL DOORS/HARDWARE	11JAN95	24MAY95
					WORKPERIOD	249	343	
G0838	2	2	1	0	09	INSTALL DOORS/HARDWARE	18JAN95	24MAY95
					WORKPERIOD	253	343	
G0138	2	2	1	0	06	INSTALL DOORS/HARDWARE	20JAN95	24MAY95
					WORKPERIOD	255	343	

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE	PRIMAVERA PROJECT PLANNER	BID PACKAGE 3 - GUARD TOWER
REPORT DATE 20SEP95 RUN NO. 94	*****MCCARTHY*****	START DATE 18JAN94 FIN DATE 22JUN95*
10:24		
EF of Current 1st Units, by EF then Priority		DATA DATE 18DEC94 PAGE NO. 5

ACTIVITY ID	ORIG DUR	REM DUR	CAL %	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATE FINISH
38							
G0738	2	2	1	0	07 INSTALL DOORS/HARDWARE	20JAN95	24MAY95
					WORKPERIOD	255	343
G1338	2	2	1	0	08 INSTALL DOORS/HARDWARE	24JAN95	24MAY95
					WORKPERIOD	257	343
G1138	2	2	1	0	10 INSTALL DOORS/HARDWARE	24JAN95	24MAY95
					WORKPERIOD	257	343
G1038	2	2	1	0	11 INSTALL DOORS/HARDWARE	24JAN95	24MAY95
					WORKPERIOD	257	343
G0938	2	2	1	0	12 INSTALL DOORS/HARDWARE	24JAN95	24MAY95
					WORKPERIOD	257	343
G1238	2	2	1	0	13 INSTALL DOORS/HARDWARE	24JAN95	24MAY95
					WORKPERIOD	257	343
40							
G0240	4	4	1	0	01 MECHANICAL ROUGH-IN	13JAN95	10MAY95
					WORKPERIOD	251	333
G0340	4	4	1	0	02 MECHANICAL ROUGH-IN	13JAN95	10MAY95
					WORKPERIOD	251	333
G0440	4	4	1	0	03 MECHANICAL ROUGH-IN	13JAN95	10MAY95
					WORKPERIOD	251	333
G0540	4	4	1	0	04 MECHANICAL ROUGH-IN	13JAN95	10MAY95
					WORKPERIOD	251	333
G0640	4	4	1	0	05 MECHANICAL ROUGH-IN	13JAN95	10MAY95
					WORKPERIOD	251	333
G0840	4	4	1	0	09 MECHANICAL ROUGH-IN	20JAN95	10MAY95
					WORKPERIOD	255	333
G0140	4	4	1	0	06 MECHANICAL ROUGH-IN	24JAN95	10MAY95
					WORKPERIOD	257	333
G0740	4	4	1	0	07 MECHANICAL ROUGH-IN	24JAN95	10MAY95
					WORKPERIOD	257	333
G1340	4	4	1	0	08 MECHANICAL ROUGH-IN	26JAN95	10MAY95
					WORKPERIOD	259	333
G1140	4	4	1	0	10 MECHANICAL ROUGH-IN	26JAN95	10MAY95
					WORKPERIOD	259	333
G1040	4	4	1	0	11 MECHANICAL ROUGH-IN	26JAN95	10MAY95
					WORKPERIOD	259	333
G0940	4	4	1	0	12 MECHANICAL ROUGH-IN	26JAN95	10MAY95
					WORKPERIOD	259	333
G1240	4	4	1	0	13 MECHANICAL ROUGH-IN	26JAN95	10MAY95
					WORKPERIOD	259	333
42							
G0242	5	5	1	0	01 ELECTRICAL ROUGH-IN	17JAN95	10MAY95
					WORKPERIOD	252	333
G0342	5	5	1	0	02 ELECTRICAL ROUGH-IN	17JAN95	10MAY95
					WORKPERIOD	252	333
G0442	5	5	1	0	03 ELECTRICAL ROUGH-IN	17JAN95	10MAY95
					WORKPERIOD	252	333
G0542	5	5	1	0	04 ELECTRICAL ROUGH-IN	17JAN95	10MAY95
					WORKPERIOD	252	333
G0642	5	5	1	0	05 ELECTRICAL ROUGH-IN	17JAN95	10MAY95
					WORKPERIOD	252	333
G0842	5	5	1	0	09 ELECTRICAL ROUGH-IN	23JAN95	10MAY95
					WORKPERIOD	256	333
G0142	5	5	1	0	06 ELECTRICAL ROUGH-IN	25JAN95	10MAY95
					WORKPERIOD	258	333
G0742	5	5	1	0	07 ELECTRICAL ROUGH-IN	25JAN95	10MAY95
					WORKPERIOD	258	333
G1342	5	5	1	0	08 ELECTRICAL ROUGH-IN	27JAN95	10MAY95
					WORKPERIOD	260	333
G1142	5	5	1	0	10 ELECTRICAL ROUGH-IN	27JAN95	10MAY95
					WORKPERIOD	260	333
G1042	5	5	1	0	11 ELECTRICAL ROUGH-IN	27JAN95	10MAY95
					WORKPERIOD	260	333
G0942	5	5	1	0	12 ELECTRICAL ROUGH-IN	27JAN95	10MAY95
					WORKPERIOD	260	333

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations (Continued).

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATE FINISH
42								
G1242	5	5	1	0	13	ELECTRICAL ROUGH-IN	27JAN95	10MAY95
					WORKPERIOD		260	333
44								
G0244	10	10	1	0	01	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0344	10	10	1	0	02	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0444	10	10	1	0	03	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0544	10	10	1	0	04	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0644	10	10	1	0	05	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0144	10	10	1	0	06	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0744	10	10	1	0	07	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G1344	10	10	1	0	08	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0844	10	10	1	0	09	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G1144	10	10	1	0	10	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G1044	10	10	1	0	11	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G0944	10	10	1	0	12	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
G1244	10	10	1	0	13	INTERIOR FINISHES	4APR95	24MAY95
					WORKPERIOD		307	343
46								
G0246	2	2	1	0	01	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0346	2	2	1	0	02	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0446	2	2	1	0	03	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0546	2	2	1	0	04	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0646	2	2	1	0	05	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0146	2	2	1	0	06	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0746	2	2	1	0	07	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G1346	2	2	1	0	08	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0846	2	2	1	0	09	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G1146	2	2	1	0	10	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G1046	2	2	1	0	11	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G0946	2	2	1	0	12	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
G1246	2	2	1	0	13	PAINT	6APR95	26MAY95
					WORKPERIOD		309	345
50								
G0250	3	3	1	0	01	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD		312	348
G0350	3	3	1	0	02	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD		312	348
G0450	3	3	1	0	03	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD		312	348
G0550	3	3	1	0	04	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD		312	348

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE

PRIMAVERA PROJECT PLANNER

BID PACKAGE 3 - GUARD TOWER

REPORT DATE 20SEP95 RUN NO. 94

*****MCCARTHEY*****

START DATE 18JAN94 FIN DATE 22JUN95*

10:24

EF of Current 1st Units, by EF then Priority

DATA DATE 18DEC94 PAGE NO. 7

ACTIVITY ID	ORIG DUR	REN DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATE FINISH
50								
G0650	3	3	1	0	05	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0150	3	3	1	0	06	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0750	3	3	1	0	07	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1350	3	3	1	0	08	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0850	3	3	1	0	09	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1150	3	3	1	0	10	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1050	3	3	1	0	11	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0950	3	3	1	0	12	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1250	3	3	1	0	13	MECHANICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
52								
G0252	3	3	1	0	01	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0352	3	3	1	0	02	PLUMBING FINISH	11APR95	1JUL95
					WORKPERIOD	312	348	
G0452	3	3	1	0	03	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0552	3	3	1	0	04	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0652	3	3	1	0	05	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0152	3	3	1	0	06	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0752	3	3	1	0	07	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1352	3	3	1	0	08	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0852	3	3	1	0	09	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1152	3	3	1	0	10	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1052	3	3	1	0	11	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0952	3	3	1	0	12	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1252	3	3	1	0	13	PLUMBING FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
54								
G0254	3	3	1	0	01	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0354	3	3	1	0	02	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0454	3	3	1	0	03	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0554	3	3	1	0	04	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0654	3	3	1	0	05	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0154	3	3	1	0	06	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0754	3	3	1	0	07	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1354	3	3	1	0	08	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0854	3	3	1	0	09	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations (Continued).

CALIFORNIA STATE PRISON - SUSANVILLE	PRIMAVERA PROJECT PLANNER	BID PACKAGE 3 - GUARD TOWER
REPORT DATE 20SEP95 RUN NO. 94	*****MCCARTHY*****	START DATE 18JAN94 FIN DATE 22JUN95*
10:24		
EF of Current 1st Units, by EF then Priority		DATA DATE 18DEC94 PAGE NO. 8

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	EARLY FINISH	LATE FINISH
54								
G1154	3	3	1	0	10	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1054	3	3	1	0	11	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G0954	3	3	1	0	12	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
G1254	3	3	1	0	13	ELECTRICAL FINISH	11APR95	1JUN95
					WORKPERIOD	312	348	
56								
G0256	15	15	1	0	01	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0356	15	15	1	0	02	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0456	15	15	1	0	03	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0556	15	15	1	0	04	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0656	15	15	1	0	05	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0156	15	15	1	0	06	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0756	15	15	1	0	07	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G1356	15	15	1	0	08	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0856	15	15	1	0	09	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G1156	15	15	1	0	10	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G1056	15	15	1	0	11	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G0956	15	15	1	0	12	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	
G1256	15	15	1	0	13	PUNCHLIST	2MAY95	22JUN95
					WORKPERIOD	327	363	

Figure 9.30 - Case 3, Earliest EF and Latest LF for T_{aa} Computations (Continued).

					Current	Last						Normalized
					1st typical	typical					Independent	Independent
Typical		Quantity		Resource	activity	activity	Taa	Rma	Sma	Sma	rate	rate
activity	Activity title	uncompleted	Resource	duration	EF	LF	(7) - (6)	{{(3)-1} + (8)}	(9) x (5)	rounded	(11) + (5)	(12) x 0.333 + (9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
14	PLUMBING UNDERGROUND	2	SQ14	2	236	311	75	0.013	0.027	1	0.500	12.500
16	STRUCTURAL TOWER STEEL ERECTION	5	SQ16	2	235	308	73	0.055	0.110	1	0.500	3.042
18	REBAR AT SOG	8	SQ18	2	235	313	78	0.090	0.179	1	0.500	1.857
20	METAL DECK INSTALLATION	7	SQ20	2	235	310	75	0.080	0.160	1	0.500	2.083
22	FORM/POUR SOG	8	SQ22	2	237	315	78	0.090	0.179	1	0.500	1.857
24	SLAB ON METAL DECK	8	SQ24	4	239	314	75	0.093	0.373	1	0.250	0.893
26	BACKFILL AT SOG	13	SQ26	2	235	317	82	0.146	0.293	1	0.500	1.139
28	METAL ROOF/SIDING	13	SQ28	10	243	324	81	0.148	1.481	2	0.200	0.450
30	INSTALL HOLLOW METAL	13	SQ30	2	245	326	81	0.148	0.296	1	0.500	1.125
32	INSTALL ALUM FRAMES/GLASS/GLAZIN	13	SQ32	3	297	333	36	0.333	1.000	1	0.333	0.333
34	INTERIOR FRAMING	13	SQ34	2	247	328	81	0.148	0.296	1	0.500	1.125
36	PLUMBING ROUGH-IN	13	SQ36	2	248	333	85	0.141	0.282	1	0.500	1.181
38	INSTALL DOORS/HARDWARE	13	SQ38	2	249	343	94	0.128	0.255	1	0.500	1.306
40	MECHANICAL ROUGH-IN	13	SQ40	4	251	333	82	0.146	0.585	1	0.250	0.569
42	ELECTRICAL ROUGH-IN	13	SQ42	5	252	333	81	0.148	0.741	1	0.200	0.450
44	INTERIOR FINISHES	13	SQ44	10	307	343	36	0.333	3.333	4	0.400	0.400
46	PAINT	13	SQ46	2	309	345	36	0.333	0.667	1	0.500	0.500
50	MECHANICAL FINISH	13	SQ50	3	312	348	36	0.333	1.000	1	0.333	0.333
52	PLUMBING FINISH	13	SQ52	3	312	348	36	0.333	1.000	1	0.333	0.333
54	ELECTRICAL FINISH	13	SQ54	3	312	348	36	0.333	1.000	1	0.333	0.333
56	PUNCHLIST	13	SQ56	12	327	363	36	0.333	4.000	4	0.333	0.333

Table 9.6 - Case 3, Calculation of Minimum Quantity of Resources to Complete by June 22, 1995.

REPORT DATE 20SEP95 RUN NO. 98

*****MCCARTHY*****

START DATE 18JAN94 FIN DATE 22JUN95*

10:54

Dec. 94 Acceleration, by Typical Activity & ES

DATA DATE 18DEC94 PAGE NO. 1

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
F123	60	5	1	92		FAB HVAC UNITS @ TOWER	22JUL94A	23DEC94		24FEB95	42
F124	45	20	1	56		FAB. FLOOR HATCHES FOR TOWERS	30JUL94A	18JAN95		20MAR95	43
A122	0	0	2	0		CDC APPROVAL - WINDOW/GLAZING FOR TOWER SUBMTLS.	18DEC94	17DEC94	19DEC94	18DEC94	1
F122	60	60	1	0		FAB. WINDOW/GLAZING FOR TOWER	19DEC94	15MAR95	19DEC94	15MAR95	0
D123	1	1	1	0		DELIVER HVAC EQUIP. @ GUARD TOWER	27DEC94	27DEC94	27FEB95	27FEB95	42
D124	1	1	1	0		DELIVER FLOOR HATCHES FOR TOWERS	19JAN95	19JAN95	21MAR95	21MAR95	43
D122	1	1	1	0		DELIVER WINDOW/GLAZING FOR TOWER	16MAR95	16MAR95	16MAR95	16MAR95	0
PM23Z	0	0	2	0		PM/23 - COMPLETE G TOWERS 309-312 <= DAY 341	22JUN95	22JUN95	22JUN95*	22JUN95*	0
G1114	2	1	1	50	10	PLUMBING UNDERGROUND	15DEC94A	23DEC94		20MAR95	58
G1214	2	1	1	50	13	PLUMBING UNDERGROUND	16DEC94A	4JAN95		10APR95	67
G1316	2	2	1	0	08	STRUCTURAL TOWER STEEL ERECTION	19DEC94	20DEC94	28FEB95	1MAR95	48
G1116	2	2	1	0	10	STRUCTURAL TOWER STEEL ERECTION	21DEC94	22DEC94	14MAR95	15MAR95	56
G1016	2	2	1	0	11	STRUCTURAL TOWER STEEL ERECTION	23DEC94	27DEC94	21MAR95	22MAR95	59
G0916	2	2	1	0	12	STRUCTURAL TOWER STEEL ERECTION	28DEC94	29DEC94	28MAR95	29MAR95	62
G1216	2	2	1	0	13	STRUCTURAL TOWER STEEL ERECTION	30DEC94	3JAN95	4APR95	5APR95	65
G0118	2	2	1	0	06	REBAR AT SOG	19DEC94	20DEC94	21FEB95	22FEB95	43
G0718	2	2	1	0	07	REBAR AT SOG	21DEC94	22DEC94	28FEB95	1MAR95	46
G1318	2	2	1	0	08	REBAR AT SOG	23DEC94	27DEC94	7MAR95	8MAR95	49
G0818	2	2	1	0	09	REBAR AT SOG	28DEC94	29DEC94	14MAR95	15MAR95	52
G1118	2	2	1	0	10	REBAR AT SOG	30DEC94	3JAN95	21MAR95	22MAR95	55
G1018	2	2	1	0	11	REBAR AT SOG	4JAN95	5JAN95	28MAR95	29MAR95	58
G0918	2	2	1	0	12	REBAR AT SOG	6JAN95	9JAN95	4APR95	5APR95	61
G1218	2	2	1	0	13	REBAR AT SOG	10JAN95	11JAN95	11APR95	12APR95	64
G0120	2	2	1	0	06	METAL DECK INSTALLATION	19DEC94	20DEC94	16FEB95	17FEB95	40
G0720	2	2	1	0	07	METAL DECK INSTALLATION	21DEC94	22DEC94	23FEB95	24FEB95	43
G1320	2	2	1	0	08	METAL DECK INSTALLATION	23DEC94	27DEC94	2MAR95	3MAR95	46
G1120	2	2	1	0	10	METAL DECK INSTALLATION	28DEC94	29DEC94	16MAR95	17MAR95	54
G1020	2	2	1	0	11	METAL DECK INSTALLATION	30DEC94	3JAN95	23MAR95	24MAR95	57
G0920	2	2	1	0	12	METAL DECK INSTALLATION	4JAN95	5JAN95	30MAR95	31MAR95	60
G1220	2	2	1	0	13	METAL DECK INSTALLATION	6JAN95	9JAN95	6APR95	7APR95	63
G0122	2	2	1	0	06	FORM/POUR SOG	21DEC94	22DEC94	23FEB95	24FEB95	43
G0722	2	2	1	0	07	FORM/POUR SOG	23DEC94	27DEC94	2MAR95	3MAR95	46
G1322	2	2	1	0	08	FORM/POUR SOG	28DEC94	29DEC94	9MAR95	10MAR95	49
G0822	2	2	1	0	09	FORM/POUR SOG	30DEC94	3JAN95	16MAR95	17MAR95	52
G1122	2	2	1	0	10	FORM/POUR SOG	4JAN95	5JAN95	23MAR95	24MAR95	55
G1022	2	2	1	0	11	FORM/POUR SOG	6JAN95	9JAN95	30MAR95	31MAR95	58
G0922	2	2	1	0	12	FORM/POUR SOG	10JAN95	11JAN95	6APR95	7APR95	61
G1222	2	2	1	0	13	FORM/POUR SOG	12JAN95	13JAN95	13APR95	14APR95	64
G0124	4	4	1	0	06	SLAB ON METAL DECK	21DEC94	27DEC94	20FEB95	23FEB95	40
G0724	4	4	1	0	07	SLAB ON METAL DECK	28DEC94	3JAN95	27FEB95	2MAR95	41
G1324	4	4	1	0	08	SLAB ON METAL DECK	4JAN95	9JAN95	6MAR95	9MAR95	42
G0824	4	4	1	0	09	SLAB ON METAL DECK	10JAN95	13JAN95	13MAR95	16MAR95	43
G1124	4	4	1	0	10	SLAB ON METAL DECK	17JAN95	20JAN95	20MAR95	23MAR95	44
G1024	4	4	1	0	11	SLAB ON METAL DECK	23JAN95	26JAN95	27MAR95	30MAR95	45
G0924	4	4	1	0	12	SLAB ON METAL DECK	27JAN95	1FEB95	3APR95	6APR95	46
G1224	4	4	1	0	13	SLAB ON METAL DECK	2FEB95	7FEB95	10APR95	13APR95	47
G0226	2	2	1	0	01	BACKFILL AT SOG	19DEC94	20DEC94	23JAN95	24JAN95	22
G0326	2	2	1	0	02	BACKFILL AT SOG	21DEC94	22DEC94	30JAN95	31JAN95	25
G0426	2	2	1	0	03	BACKFILL AT SOG	23DEC94	27DEC94	6FEB95	7FEB95	28
G0526	2	2	1	0	04	BACKFILL AT SOG	28DEC94	29DEC94	13FEB95	14FEB95	31
G0626	2	2	1	0	05	BACKFILL AT SOG	30DEC94	3JAN95	20FEB95	21FEB95	34
G0126	2	2	1	0	06	BACKFILL AT SOG	4JAN95	5JAN95	27FEB95	28FEB95	37
G0726	2	2	1	0	07	BACKFILL AT SOG	6JAN95	9JAN95	6MAR95	7MAR95	40
G1326	2	2	1	0	08	BACKFILL AT SOG	10JAN95	11JAN95	13MAR95	14MAR95	43
G0826	2	2	1	0	09	BACKFILL AT SOG	12JAN95	13JAN95	20MAR95	21MAR95	46
G1126	2	2	1	0	10	BACKFILL AT SOG	17JAN95	18JAN95	27MAR95	28MAR95	49
G1026	2	2	1	0	11	BACKFILL AT SOG	19JAN95	20JAN95	3APR95	4APR95	52
G0926	2	2	1	0	12	BACKFILL AT SOG	23JAN95	24JAN95	10APR95	11APR95	55
G1226	2	2	1	0	13	BACKFILL AT SOG	25JAN95	26JAN95	17APR95	18APR95	58
G0228	10	10	1	0	01	METAL ROOF/SIDING	19DEC94	3JAN95	20JAN95	2FEB95	21
G0328	10	10	1	0	02	METAL ROOF/SIDING	20DEC94	4JAN95	27JAN95	9FEB95	25
G0428	10	10	1	0	03	METAL ROOF/SIDING	4JAN95	18JAN95	3FEB95	16FEB95	21
G0528	10	10	1	0	04	METAL ROOF/SIDING	5JAN95	19JAN95	10FEB95	23FEB95	25
G0628	10	10	1	0	05	METAL ROOF/SIDING	19JAN95	1FEB95	17FEB95	2MAR95	21
G0128	10	10	1	0	06	METAL ROOF/SIDING	20JAN95	2FEB95	24FEB95	9MAR95	25

Figure 9.31 - Case 3, Accelerated Schedule.

REPORT DATE 20SEP95 RUN NO. 98

*****MCCARTHY*****

START DATE 18JAN94 FIN DATE 22JUN95*

10:54

Dec. 94 Acceleration, by Typical Activity & ES

DATA DATE 18DEC94 PAGE NO. 2

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0728	10	10	1	0	07	METAL ROOF/SIDING	2FEB95	15FEB95	3MAR95	16MAR95	21
G1328	10	10	1	0	08	METAL ROOF/SIDING	3FEB95	16FEB95	10MAR95	23MAR95	25
G0828	10	10	1	0	09	METAL ROOF/SIDING	16FEB95	1MAR95	17MAR95	30MAR95	21
G1128	10	10	1	0	10	METAL ROOF/SIDING	17FEB95	2MAR95	24MAR95	6APR95	25
G1028	10	10	1	0	11	METAL ROOF/SIDING	2MAR95	15MAR95	31MAR95	13APR95	21
G0928	10	10	1	0	12	METAL ROOF/SIDING	3MAR95	16MAR95	7APR95	20APR95	25
G1228	10	10	1	0	13	METAL ROOF/SIDING	16MAR95	29MAR95	14APR95	27APR95	21
G0230	2	2	1	0	01	INSTALL HOLLOW METAL	4JAN95	5JAN95	3FEB95	6FEB95	21
G0330	2	2	1	0	02	INSTALL HOLLOW METAL	6JAN95	9JAN95	10FEB95	13FEB95	24
G0430	2	2	1	0	03	INSTALL HOLLOW METAL	19JAN95	20JAN95	17FEB95	20FEB95	21
G0530	2	2	1	0	04	INSTALL HOLLOW METAL	23JAN95	24JAN95	24FEB95	27FEB95	24
G0630	2	2	1	0	05	INSTALL HOLLOW METAL	2FEB95	3FEB95	3MAR95	6MAR95	21
G0130	2	2	1	0	06	INSTALL HOLLOW METAL	6FEB95	7FEB95	10MAR95	13MAR95	24
G0730	2	2	1	0	07	INSTALL HOLLOW METAL	16FEB95	17FEB95	17MAR95	20MAR95	21
G1330	2	2	1	0	08	INSTALL HOLLOW METAL	20FEB95	21FEB95	24MAR95	27MAR95	24
G0830	2	2	1	0	09	INSTALL HOLLOW METAL	2MAR95	3MAR95	31MAR95	3APR95	21
G1130	2	2	1	0	10	INSTALL HOLLOW METAL	6MAR95	7MAR95	7APR95	10APR95	24
G1030	2	2	1	0	11	INSTALL HOLLOW METAL	16MAR95	17MAR95	14APR95	17APR95	21
G0930	2	2	1	0	12	INSTALL HOLLOW METAL	20MAR95	21MAR95	21APR95	24APR95	24
G1230	2	2	1	0	13	INSTALL HOLLOW METAL	30MAR95	31MAR95	28APR95	1MAY95	21
G0232	3	3	1	0	01	INSTALL ALUM FRAMES/GLASS/GLAZING	17MAR95	21MAR95	17MAR95	21MAR95	0
G0332	3	3	1	0	02	INSTALL ALUM FRAMES/GLASS/GLAZING	22MAR95	24MAR95	22MAR95	24MAR95	0
G0432	3	3	1	0	03	INSTALL ALUM FRAMES/GLASS/GLAZING	27MAR95	29MAR95	27MAR95	29MAR95	0
G0532	3	3	1	0	04	INSTALL ALUM FRAMES/GLASS/GLAZING	30MAR95	3APR95	30MAR95	3APR95	0
G0632	3	3	1	0	05	INSTALL ALUM FRAMES/GLASS/GLAZING	4APR95	6APR95	4APR95	6APR95	0
G0132	3	3	1	0	06	INSTALL ALUM FRAMES/GLASS/GLAZING	7APR95	11APR95	7APR95	11APR95	0
G0732	3	3	1	0	07	INSTALL ALUM FRAMES/GLASS/GLAZING	12APR95	14APR95	12APR95	14APR95	0
G1332	3	3	1	0	08	INSTALL ALUM FRAMES/GLASS/GLAZING	17APR95	19APR95	17APR95	19APR95	0
G0832	3	3	1	0	09	INSTALL ALUM FRAMES/GLASS/GLAZING	20APR95	24APR95	20APR95	24APR95	0
G1132	3	3	1	0	10	INSTALL ALUM FRAMES/GLASS/GLAZING	25APR95	27APR95	25APR95	27APR95	0
G1032	3	3	1	0	11	INSTALL ALUM FRAMES/GLASS/GLAZING	28APR95	2MAY95	28APR95	2MAY95	0
G0932	3	3	1	0	12	INSTALL ALUM FRAMES/GLASS/GLAZING	3MAY95	5MAY95	3MAY95	5MAY95	0
G1232	3	3	1	0	13	INSTALL ALUM FRAMES/GLASS/GLAZING	8MAY95	10MAY95	8MAY95	10MAY95	0
G0234	2	2	1	0	01	INTERIOR FRAMING	6JAN95	9JAN95	7FEB95	8FEB95	21
G0334	2	2	1	0	02	INTERIOR FRAMING	10JAN95	11JAN95	14FEB95	15FEB95	24
G0434	2	2	1	0	03	INTERIOR FRAMING	23JAN95	24JAN95	21FEB95	22FEB95	21
G0534	2	2	1	0	04	INTERIOR FRAMING	25JAN95	26JAN95	28FEB95	1MAR95	24
G0634	2	2	1	0	05	INTERIOR FRAMING	6FEB95	7FEB95	7MAR95	8MAR95	21
G0134	2	2	1	0	06	INTERIOR FRAMING	8FEB95	9FEB95	14MAR95	15MAR95	24
G0734	2	2	1	0	07	INTERIOR FRAMING	20FEB95	21FEB95	21MAR95	22MAR95	21
G1334	2	2	1	0	08	INTERIOR FRAMING	22FEB95	23FEB95	28MAR95	29MAR95	24
G0834	2	2	1	0	09	INTERIOR FRAMING	6MAR95	7MAR95	4APR95	5APR95	21
G1134	2	2	1	0	10	INTERIOR FRAMING	8MAR95	9MAR95	11APR95	12APR95	24
G1034	2	2	1	0	11	INTERIOR FRAMING	20MAR95	21MAR95	18APR95	19APR95	21
G0934	2	2	1	0	12	INTERIOR FRAMING	22MAR95	23MAR95	25APR95	26APR95	24
G1234	2	2	1	0	13	INTERIOR FRAMING	3APR95	4APR95	2MAY95	3MAY95	21
G0236	2	2	1	50	01	PLUMBING ROUGH-IN	9DEC94A	10JAN95		21MAR95	49
G0336	2	2	1	50	02	PLUMBING ROUGH-IN	12DEC94A	12JAN95		24MAR95	50
G0436	2	2	1	50	03	PLUMBING ROUGH-IN	13DEC94A	25JAN95		29MAR95	45
G0536	2	2	1	50	04	PLUMBING ROUGH-IN	14DEC94A	27JAN95		3APR95	46
G0636	2	2	1	50	05	PLUMBING ROUGH-IN	15DEC94A	8FEB95		6APR95	41
G0136	2	2	1	50	06	PLUMBING ROUGH-IN	16DEC94A	10FEB95		11APR95	42
G0736	2	2	1	0	07	PLUMBING ROUGH-IN	22FEB95	23FEB95	13APR95	14APR95	36
G1336	2	2	1	0	08	PLUMBING ROUGH-IN	24FEB95	27FEB95	18APR95	19APR95	37
G0836	2	2	1	0	09	PLUMBING ROUGH-IN	8MAR95	9MAR95	21APR95	24APR95	32
G1136	2	2	1	0	10	PLUMBING ROUGH-IN	10MAR95	13MAR95	26APR95	27APR95	33
G1036	2	2	1	0	11	PLUMBING ROUGH-IN	22MAR95	23MAR95	22APR95	23APR95	28
G0936	2	2	1	0	12	PLUMBING ROUGH-IN	24MAR95	27MAR95	4MAY95	5MAY95	29
G1236	2	2	1	0	13	PLUMBING ROUGH-IN	5APR95	6APR95	9MAY95	10MAY95	24
G0238	2	2	1	0	01	INSTALL DOORS/HARDWARE	10JAN95	11JAN95	3APR95	4APR95	58
G0338	2	2	1	0	02	INSTALL DOORS/HARDWARE	12JAN95	13JAN95	6APR95	7APR95	59
G0438	2	2	1	0	03	INSTALL DOORS/HARDWARE	25JAN95	26JAN95	11APR95	12APR95	54
G0538	2	2	1	0	04	INSTALL DOORS/HARDWARE	27JAN95	30JAN95	14APR95	17APR95	55
G0638	2	2	1	0	05	INSTALL DOORS/HARDWARE	8FEB95	9FEB95	19APR95	20APR95	50
G0138	2	2	1	0	06	INSTALL DOORS/HARDWARE	10FEB95	13FEB95	24APR95	25APR95	51

Figure 9.31 - Case 3, Accelerated Schedule (Continued).

REPORT DATE 20SEP95 RUN NO. 98
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*****MCCARTHY*****

START DATE 18JAN94 FIN DATE 22JUN95*

Dec. 94 Acceleration, by Typical Activity & ES

DATA DATE 18DEC94 PAGE NO. 3

ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELLED ES	LEVELLED EF	LEVELLED LS	LEVELLED LF	TOTAL FLOAT
G0738	2	2	1	0	07	INSTALL DOORS/HARDWARE	22FEB95	23FEB95	27APR95	28APR95	46
G1338	2	2	1	0	08	INSTALL DOORS/HARDWARE	24FEB95	27FEB95	2MAY95	3MAY95	47
G0838	2	2	1	0	09	INSTALL DOORS/HARDWARE	8MAR95	9MAR95	5MAY95	8MAY95	42
G1138	2	2	1	0	10	INSTALL DOORS/HARDWARE	10MAR95	13MAR95	10MAY95	11MAY95	43
G1038	2	2	1	0	11	INSTALL DOORS/HARDWARE	22MAR95	23MAR95	15MAY95	16MAY95	38
G0938	2	2	1	0	12	INSTALL DOORS/HARDWARE	24MAR95	27MAR95	18MAY95	19MAY95	39
G1238	2	2	1	0	13	INSTALL DOORS/HARDWARE	5APR95	6APR95	23MAY95	24MAY95	34
G0240	4	4	1	0	01	MECHANICAL ROUGH-IN	10JAN95	13JAN95	28FEB95	3MAR95	34
G0340	4	4	1	0	02	MECHANICAL ROUGH-IN	17JAN95	20JAN95	6MAR95	9MAR95	34
G0440	4	4	1	0	03	MECHANICAL ROUGH-IN	25JAN95	30JAN95	10MAR95	15MAR95	32
G0540	4	4	1	0	04	MECHANICAL ROUGH-IN	31JAN95	3FEB95	16MAR95	21MAR95	32
G0640	4	4	1	0	05	MECHANICAL ROUGH-IN	8FEB95	13FEB95	22MAR95	27MAR95	30
G0140	4	4	1	0	06	MECHANICAL ROUGH-IN	14FEB95	17FEB95	28MAR95	31MAR95	30
G0740	4	4	1	0	07	MECHANICAL ROUGH-IN	22FEB95	27FEB95	3APR95	6APR95	28
G1340	4	4	1	0	08	MECHANICAL ROUGH-IN	28FEB95	3MAR95	7APR95	12APR95	28
G0840	4	4	1	0	09	MECHANICAL ROUGH-IN	8MAR95	13MAR95	13APR95	18APR95	26
G1140	4	4	1	0	10	MECHANICAL ROUGH-IN	14MAR95	17MAR95	19APR95	24APR95	26
G1040	4	4	1	0	11	MECHANICAL ROUGH-IN	22MAR95	27MAR95	25APR95	28APR95	24
G0940	4	4	1	0	12	MECHANICAL ROUGH-IN	28MAR95	31MAR95	1MAY95	4MAY95	24
G1240	4	4	1	0	13	MECHANICAL ROUGH-IN	5APR95	10APR95	5MAY95	10MAY95	22
G0242	5	5	1	0	01	ELECTRICAL ROUGH-IN	10JAN95	17JAN95	9FEB95	15FEB95	21
G0342	5	5	1	0	02	ELECTRICAL ROUGH-IN	18JAN95	24JAN95	16FEB95	22FEB95	21
G0442	5	5	1	0	03	ELECTRICAL ROUGH-IN	25JAN95	31JAN95	23FEB95	1MAR95	21
G0542	5	5	1	0	04	ELECTRICAL ROUGH-IN	1FEB95	7FEB95	2MAR95	8MAR95	21
G0642	5	5	1	0	05	ELECTRICAL ROUGH-IN	8FEB95	14FEB95	9MAR95	15MAR95	21
G0142	5	5	1	0	06	ELECTRICAL ROUGH-IN	15FEB95	21FEB95	16MAR95	22MAR95	21
G0742	5	5	1	0	07	ELECTRICAL ROUGH-IN	22FEB95	28FEB95	23MAR95	29MAR95	21
G1142	5	5	1	0	08	ELECTRICAL ROUGH-IN	1MAR95	7MAR95	30MAR95	5APR95	21
G0842	5	5	1	0	09	ELECTRICAL ROUGH-IN	8MAR95	14MAR95	6APR95	12APR95	21
G1142	5	5	1	0	10	ELECTRICAL ROUGH-IN	15MAR95	21MAR95	13APR95	19APR95	21
G1042	5	5	1	0	11	ELECTRICAL ROUGH-IN	22MAR95	28MAR95	20APR95	26APR95	21
G0942	5	5	1	0	12	ELECTRICAL ROUGH-IN	29MAR95	4APR95	27APR95	3MAY95	21
G1242	5	5	1	0	13	ELECTRICAL ROUGH-IN	5APR95	11APR95	4MAY95	10MAY95	21
G0244	10	10	1	0	01	INTERIOR FINISHES	22MAR95	4APR95	22MAR95	4APR95	0
G0344	10	10	1	0	02	INTERIOR FINISHES	27MAR95	7APR95	27MAR95	7APR95	0
G0444	10	10	1	0	03	INTERIOR FINISHES	30MAR95	12APR95	30MAR95	12APR95	0
G0544	10	10	1	0	04	INTERIOR FINISHES	4APR95	17APR95	4APR95	17APR95	0
G0644	10	10	1	0	05	INTERIOR FINISHES	7APR95	20APR95	7APR95	20APR95	0
G0144	10	10	1	0	06	INTERIOR FINISHES	12APR95	25APR95	12APR95	25APR95	0
G0744	10	10	1	0	07	INTERIOR FINISHES	17APR95	28APR95	17APR95	28APR95	0
G1344	10	10	1	0	08	INTERIOR FINISHES	20APR95	3MAY95	20APR95	3MAY95	0
G0844	10	10	1	0	09	INTERIOR FINISHES	25APR95	8MAY95	25APR95	8MAY95	0
G1144	10	10	1	0	10	INTERIOR FINISHES	28APR95	11MAY95	28APR95	11MAY95	0
G1044	10	10	1	0	11	INTERIOR FINISHES	3MAY95	16MAY95	3MAY95	16MAY95	0
G0944	10	10	1	0	12	INTERIOR FINISHES	8MAY95	19MAY95	8MAY95	19MAY95	0
G1244	10	10	1	0	13	INTERIOR FINISHES	11MAY95	24MAY95	11MAY95	24MAY95	0
G0246	2	2	1	0	01	PAINT	5APR95	6APR95	5APR95	6APR95	0
G0346	2	2	1	0	02	PAINT	10APR95	11APR95	10APR95	11APR95	0
G0446	2	2	1	0	03	PAINT	13APR95	14APR95	13APR95	14APR95	0
G0546	2	2	1	0	04	PAINT	18APR95	19APR95	18APR95	19APR95	0
G0646	2	2	1	0	05	PAINT	21APR95	24APR95	21APR95	24APR95	0
G0146	2	2	1	0	06	PAINT	26APR95	27APR95	26APR95	27APR95	0
G0746	2	2	1	0	07	PAINT	1MAY95	2MAY95	1MAY95	2MAY95	0
G1346	2	2	1	0	08	PAINT	4MAY95	5MAY95	4MAY95	5MAY95	0
G0846	2	2	1	0	09	PAINT	9MAY95	10MAY95	9MAY95	10MAY95	0
G1146	2	2	1	0	10	PAINT	12MAY95	15MAY95	12MAY95	15MAY95	0
G1046	2	2	1	0	11	PAINT	17MAY95	18MAY95	17MAY95	18MAY95	0
G0946	2	2	1	0	12	PAINT	22MAY95	23MAY95	22MAY95	23MAY95	0
G1246	2	2	1	0	13	PAINT	25MAY95	26MAY95	25MAY95	26MAY95	0
G0250	3	3	1	0	01	MECHANICAL FINISH	7APR95	11APR95	7APR95	11APR95	0
G0350	3	3	1	0	02	MECHANICAL FINISH	12APR95	14APR95	12APR95	14APR95	0
G0450	3	3	1	0	03	MECHANICAL FINISH	17APR95	17APR95	17APR95	17APR95	0
G0550	3	3	1	0	04	MECHANICAL FINISH	20APR95	21APR95	20APR95	21APR95	0
G0650	3	3	1	0	05	MECHANICAL FINISH	25APR95	27APR95	25APR95	27APR95	0
G0150	3	3	1	0	06	MECHANICAL FINISH	28APR95	2MAY95	28APR95	2MAY95	0

Figure 9.31 - Case 3, Accelerated Schedule (Continued).

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Dec. 94 Acceleration, by Typical Activity & ES

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ACTIVITY ID	ORIG DUR	REM DUR	CAL	%	CODE	ACTIVITY DESCRIPTION	LEVELED ES	LEVELED EF	LEVELED LS	LEVELED LF	TOTAL FLOAT
G0750	3	3	1	0	07	MECHANICAL FINISH	3MAY95	5MAY95	3MAY95	5MAY95	0
G1350	3	3	1	0	08	MECHANICAL FINISH	8MAY95	10MAY95	8MAY95	10MAY95	0
G0850	3	3	1	0	09	MECHANICAL FINISH	11MAY95	15MAY95	11MAY95	15MAY95	0
G1150	3	3	1	0	10	MECHANICAL FINISH	16MAY95	18MAY95	16MAY95	18MAY95	0
G1050	3	3	1	0	11	MECHANICAL FINISH	19MAY95	23MAY95	19MAY95	23MAY95	0
G0950	3	3	1	0	12	MECHANICAL FINISH	24MAY95	26MAY95	24MAY95	26MAY95	0
G1250	3	3	1	0	13	MECHANICAL FINISH	30MAY95	1JUN95	30MAY95	1JUN95	0
G0252	3	3	1	0	01	PLUMBING FINISH	7APR95	11APR95	7APR95	11APR95	0
G0352	3	3	1	0	02	PLUMBING FINISH	12APR95	14APR95	12APR95	14APR95	0
G0452	3	3	1	0	03	PLUMBING FINISH	17APR95	19APR95	17APR95	19APR95	0
G0552	3	3	1	0	04	PLUMBING FINISH	20APR95	24APR95	20APR95	24APR95	0
G0652	3	3	1	0	05	PLUMBING FINISH	25APR95	27APR95	25APR95	27APR95	0
G0152	3	3	1	0	06	PLUMBING FINISH	28APR95	2MAY95	28APR95	2MAY95	0
G0752	3	3	1	0	07	PLUMBING FINISH	3MAY95	5MAY95	3MAY95	5MAY95	0
G1352	3	3	1	0	08	PLUMBING FINISH	8MAY95	10MAY95	8MAY95	10MAY95	0
G0852	3	3	1	0	09	PLUMBING FINISH	11MAY95	15MAY95	11MAY95	15MAY95	0
G1152	3	3	1	0	10	PLUMBING FINISH	16MAY95	18MAY95	16MAY95	18MAY95	0
G1052	3	3	1	0	11	PLUMBING FINISH	19MAY95	23MAY95	19MAY95	23MAY95	0
G0952	3	3	1	0	12	PLUMBING FINISH	24MAY95	26MAY95	24MAY95	26MAY95	0
G1252	3	3	1	0	13	PLUMBING FINISH	30MAY95	1JUN95	30MAY95	1JUN95	0
G0254	3	3	1	0	01	ELECTRICAL FINISH	7APR95	11APR95	7APR95	11APR95	0
G0354	3	3	1	0	02	ELECTRICAL FINISH	12APR95	14APR95	12APR95	14APR95	0
G0454	3	3	1	0	03	ELECTRICAL FINISH	17APR95	19APR95	17APR95	19APR95	0
G0554	3	3	1	0	04	ELECTRICAL FINISH	20APR95	24APR95	20APR95	24APR95	0
G0654	3	3	1	0	05	ELECTRICAL FINISH	25APR95	27APR95	25APR95	27APR95	0
G0154	3	3	1	0	06	ELECTRICAL FINISH	28APR95	2MAY95	28APR95	2MAY95	0
G0754	3	3	1	0	07	ELECTRICAL FINISH	3MAY95	5MAY95	3MAY95	5MAY95	0
G1354	3	3	1	0	08	ELECTRICAL FINISH	8MAY95	10MAY95	8MAY95	10MAY95	0
G0854	3	3	1	0	09	ELECTRICAL FINISH	11MAY95	15MAY95	11MAY95	15MAY95	0
G1154	3	3	1	0	10	ELECTRICAL FINISH	16MAY95	18MAY95	16MAY95	18MAY95	0
G1054	3	3	1	0	11	ELECTRICAL FINISH	19MAY95	23MAY95	19MAY95	23MAY95	0
G0954	3	3	1	0	12	ELECTRICAL FINISH	24MAY95	26MAY95	24MAY95	26MAY95	0
G1254	3	3	1	0	13	ELECTRICAL FINISH	30MAY95	1JUN95	30MAY95	1JUN95	0
G0256	15	15	1	0	01	PUNCHLIST	12APR95	2MAY95	12APR95	2MAY95	0
G0356	15	15	1	0	02	PUNCHLIST	17APR95	5MAY95	28APR95	18MAY95	9
G0456	15	15	1	0	03	PUNCHLIST	20APR95	10MAY95	28APR95	18MAY95	6
G0556	15	15	1	0	04	PUNCHLIST	25APR95	15MAY95	28APR95	18MAY95	3
G0656	15	15	1	0	05	PUNCHLIST	28APR95	18MAY95	28APR95	18MAY95	0
G0156	15	15	1	0	06	PUNCHLIST	3MAY95	23MAY95	16MAY95	6JUN95	9
G0756	15	15	1	0	07	PUNCHLIST	8MAY95	26MAY95	16MAY95	6JUN95	6
G1356	15	15	1	0	08	PUNCHLIST	11MAY95	1JUN95	16MAY95	6JUN95	3
G0856	15	15	1	0	09	PUNCHLIST	16MAY95	6JUN95	16MAY95	6JUN95	0
G1156	15	15	1	0	10	PUNCHLIST	19MAY95	9JUN95	2JUN95	22JUN95	9
G1056	15	15	1	0	11	PUNCHLIST	24MAY95	14JUN95	2JUN95	22JUN95	6
G0956	15	15	1	0	12	PUNCHLIST	30MAY95	19JUN95	2JUN95	22JUN95	3
G1256	15	15	1	0	13	PUNCHLIST	2JUN95	22JUN95	2JUN95	22JUN95	0

Figure 9.31 - Case 3, Accelerated Schedule (Continued).

CHAPTER 10

CONCLUSIONS AND SUGGESTIONS FOR FUTURE RESEARCH

10.1 Objectives Satisfied

The following is a summary of the objectives achieved listed in the order they were first stated in section 1.3:

1. In section 4.2, past and current attempts of integrating CPM and LOB were identified and evaluated.
2. In section 5.2 and 5.3, the practical applications of LOB and CPM were investigated.
3. Chapter 6 showed the development of the new methodology that fully integrated CPM and LOB. Six examples were offered to test and verify the capabilities claimed.
4. In chapter 9, the effectiveness of CPM/LOB was further tested and validated on three real life projects.

10.2 Test of the Principal Hypothesis

The examples in chapters 6, 7 and 8 along with the three case studies in chapter 9, have proven unequivocally true the hypothesis stated in section 1.5: CPM and LOB were integrated and resulted in a more powerful tool than either one of them applied independently. Further it was confirmed that they retained their powerful features and counteracted their weaknesses. Within CPM/LOB, it was possible to react promptly to changes in sequence of work and to maintain work continuity. LOB in the environment of CPM/LOB was capable of handling complicated branching networks and incorporating float in the calculations. With CPM/LOB it was possible to determine the right combination of team resources and identify the critical path of small as well as large projects even before running the CPM software thereby offering a better insight to a repetitive project than any of CPM or LOB applied independently. The user enjoys a considerable advantage in assessing the impacts of delays and resource-driven effects, which should help

proving delays and sensible utilization of float times. In case study 3, CPM/LOB was proved capable of incorporating discrete activities along with repetitive activities.

10.2 Test of the Secondary Hypotheses

Section 1.6 stated the secondary hypotheses that were predicated on an expected successful integration of CPM and LOB to identify, quantify and overcome the effects of: common activities, out-of-logic progress and excessive quantities of uncompleted repetitive activities. The following summarizes how the secondary hypotheses were proven true:

1. The effect of the common activities was defined and a formula was derived to quantify it in section 7.2 which included an example. Additionally, the baseline schedule of case study 2 isolated the effect of the common activity and quantified it after fixing all other variables.
2. Out-of-logic progress was identified and quantified through an example in section 7.4. It was addressed again and overcome in case study 2, sections 9.3.2 and 9.3.3.
3. The problem of excessive quantities of partly completed activities was discussed in section 7.5 and the suggested solution was to split the said activity. No numeric example was given per se, however, the solution was of a very close nature to splitting the GF & FF CEMENT BLOCK WORK activity in case study 2.

10.4 Conclusions

This research succeeded in integrating CPM and LOB in an original methodology that manifested and validated its invulnerability to changes in operations sequence, and its capability of maintaining practical continuity for the team-resources. CPM/LOB marks the beginning of LOB's gain from future developments of CPM commercial packages. Its application is so flexible that it greatly facilitates experimentation with alternative resource and sequence strategies.

It should be realized now that practical methods in use which utilize LOB alone, or resource-based relationships in CPM for planning and scheduling projects with significant repetition can be seen as inefficient.

This work further claims the original exposure and improvement of several aspects in the management of repetitive projects. Namely, the effect of common activities, out-of-logic and out-of-sequence progress, excessive quantities of uncompleted activities, progress regularity, stage handovers, and merger. Examples were given to justify the claim.

Because CPM/LOB uses heuristic-based resource leveling which maintains a dynamic link among single repetitive activities, it leaves less float to dispute between the parties, especially when resource strategies change, let alone implied resource strategies that leave float for potential future utilization.

Contrary to previous beliefs by Peer (1974), Birrel (1980), Johnston (1981), Jaafari (1984), Rahbar and Rowings (1992), and Hegazy et al. (1993), CPM/LOB proved that resource leveling is capable of maintaining work continuity.

CPM/LOB negated, for the first time, the notion that the slowest rate activity determines the critical path hence control the pace of a repetitive project. This opinion was expressed by Peer (1974), Carr and Meyer (1974), and Humphries (1993). CPM/LOB revealed that due to the existence of float, activity completion rates must be normalized (as shown in the three case studies) before using the lowest rate as an indication of resource criticality. The critical path starts with the longest chain of activities preceding the slowest normalized rate activity. It then goes throughout that typical activity and to the longest chain of activities succeeding it to the end of the whole project.

CPM was criticized for giving no indication of production rates (Arditi and Albulak 1986; Rahbar and Rowings 1992; Humphries 1993). In CPM/LOB, as well as resource-based relationship CPM networks, this issue was considered and a single resource of one day duration was allocated to the last day of each typical activity. This resource was called "completion" and was separately aggregated for each typical activity to plot completions against time. Fig. 6.7 showed that.

Due to multiple team-resource allocations to repetitive activities, not all the squads of a critical typical activity should be critical. This is especially true when there is no requirement for gradual completions or handovers. Moreover, critical activities in the unit network may not be critical activities in the overall project schedule because in repetitive construction, resources are the major parameter that determines criticality. Activity durations before and after those critical resources determine the rest of the critical path.

Breaking activities into single squad tasks can be done if CPM/LOB is to be utilized at the trade subcontractor level of detail. This will lead to less overall project duration due to the elimination of unnecessary sequential leveling of long-duration summary squads as opposed to overlapping short-duration individual or specialty squads.

Completion dates could be slightly earlier than target dates when rounding up the quantity of minimum resources required to complete on target. This does not happen if the resource requirement of the dominating activity or activities is already an integer and does not need rounding up. Nevertheless, earlier completion dates could still occur due to the utilization of more than one squad on a typical activity. This is so because the mathematical computation of the required minimum quantity of resources assumes these squad completions follow a straight inclined line, whereas they could be anywhere between that and completely concurrent depending on their predecessors and resources availability. The discussion in section 7.3 should illustrate that.

A repetitive activity can be executed with a range of quantities of team-resources. Arriving at the right combination of resources for all the repetitive activities is a trial and error process (Perera and Ramaswamy 1980) until finally satisfying the project target completion date. These combinations are many; on a small typical network of ten activities where each activity can be executed by one of two possible quantities of a single team-resource, there are more than one thousand possible combinations of resources to investigate in attempting to arrive at the target completion date:

$$(\text{Range of quantities of resources})^{(\text{number of typical activities})} = \text{possible combinations}$$

$$(2)^{10} = 1,024 \text{ Combinations for resource leveling}$$

The integration of CPM and LOB reduces these to a few then the float utilization concept in CPM/LOB narrows these down to a single feasible combination without trial and error. A lot of time and effort is therefore saved.

CPM/LOB was applied by the author on several real projects: electrical substations, houses, guard towers, precast bridges, and schools. Due to space limitations only three of these projects have been included as case studies. The results of the practical application were most satisfying.

The author refrained from designing a fully automated computer program for CPM/LOB to discourage possible laxative and cavalier applications. Some planners and schedulers submit to the limitations of computer programs and therefore move the process of planning and scheduling away from the prudence of the indispensable human interaction.

Because CPM/LOB is versatile and relatively free of mathematical complexities, it is expected to be attractive to constructors of repetitive projects. The many researchers interested in repetitive construction planning and scheduling should also find this work interesting.

10.5 Suggestions for Future Research

CPM/LOB could be more useful if the following recommendations could be incorporated to show the extreme efficiency of the methodology:

1. Identifying preferential logic relationships in CPM from absolute logic relationships in the baseline schedule thereby giving the scheduler the option of overriding the preferential logic when necessary. A clear definition of scope for each activity would be instrumental in achieving that.
2. Enabling the plotting of resource flows on bar charts and linked bar charts to track critical resources besides critical activities toward achieving a comprehensive and quick identification of the critical path.
3. Enabling cumulative resource curves (flow lines) in a step-line format.

4. Resource smoothing was tried experimentally on a non-team resource that was needed by various repetitive activities. It is worth it to investigate and confirm if it tends to compromise the continuity of repetitive activities.
5. Enabling changes in resource availabilities, calendars, start constraints, etc. referenced to a specific or a variable quantity of typical activities, e.g. step up the resource availability after the completion of the 10th unit, or typical activity "excavation" should not lead "concrete foundations" by more than 10 units in the rainy season. Also enabling pre-defined quantity buffers despite expected changes in sequence.
6. Introducing float for resources within a single CPM activity, e.g. a five day activity needs a one day resource on any of its five days, hence the resource has four days of float.
7. Enabling resource leveling to start an activity even if its resource requirements were not available throughout its projected duration, then leaving it partway to a subsequently available activity.
8. Automating the preparation of the regularity chart for speedy analysis. It should be mentioned that in order to facilitate the identification of bottlenecks, no activity should be placed after its successor in a regularity chart.
9. In order to avoid situations where some resources become in short supply while others are abundant, increasing resources should be thought of in terms of marginal returns on increments in completion rates. Whether accelerating or decelerating, the balance between resource quantities has to be maintained to reduce the cost of resources.
10. There is no one planning technique that will work for all types of construction (Schlick 1981). Repetitive projects can be divided into two categories as far as typical activity durations are concerned; "typical repetitive", where typical activities have identical durations in all units (e.g. housing projects) and; "nontypical repetitive", where typical activity durations vary from unit to unit or section to section (e.g. highway construction). The variation in duration can be

due to differences in quantities, weather conditions and the learning curve effect (Voster and Bafna 1992; Moselhi and El-Rayes 1993). Location-time diagrams and dynamic programming based techniques are tailored to both types of projects, however, LOB type techniques (including CPM/LOB) are more suitable to typical repetitive projects. Forbes (1971) had mentioned that within the LOB application on housing projects, little differences in work content were coupled with a wide range of manpower output hence any attempt at precise timing of the work was unrealistic.

Nevertheless, the flexibility of CPM/LOB should encourage future research work to extend its utilization to nontypical repetitive projects by firstly incorporating the effect of the learning curve and secondly, the effect of significant variations in work content.

Russell and Wong (1993) removed the computer-generated learning curve effects from their model (REPCON) because users did not like delegating such judgement to a machine. Nevertheless, this author is of the opinion that once a system offers realistic and flexible solutions, users start to trust it. It is therefore recommended that the learning effect be reflected in activity durations driven by the degree of learning of the squad that happens to work on them. Obviously the degree of learning is dependent on the number of repetitions.

11. Expert Systems' solutions are not current alternatives to CPM/LOB but this author recommends incorporating the methodology of CPM/LOB in future AI works, certainly in those utilizing commercial planning and scheduling software.

Perhaps enhancing CPM/LOB with expert systems could promote an option of resource scheduling per the natural rhythm and dynamic buffers that account for sequence changes automatically rather than by logic relationships.

12. Neural Networks can probably be applied on non-heuristic resource leveling to aid the scheduler in arriving at an optimized combination of resources for sophisticated requirements. Ahuja et al. (1994) did some work on productivity by Neural Networks.

13. It is worthwhile to point out that the industry has always been interested in simple solutions.

APPENDIX

A.1 Publications from this Thesis

1. Suhail, S. A. (1993). "Out-of-logic progress," *Cost Engineering*, American Association of Cost Engineers, International, Vol. 35, No. 4, April, pp. 23-28.
2. Suhail, S. A., and Neale, R. H., (1994). "CPM/LOB: New methodology to integrate CPM and line of balance," *Journal of Construction Engineering and Management*, American Society of Civil Engineers, Vol. 120, No. 2, September, pp. 667-684.

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