



Transit Bus Options Tracker Selections

Customer	Biddeford Saco Old Orchard Beach Transit	
Administrative Address	13 Pomerleau Street Biddeford, ME 04005	
Bus Delivery Address	13 Pomerleau Street Biddeford, ME 04005	
Parts Delivery Address	13 Pomerleau Street Biddeford, ME 04005	
Project ID	105	
Project Name	BSOOB2	
Project Description	2 35' ZX5 Buses for repeat customer, similar config except DP to PD2.0, Valeo, other changes possible	
Bus QTY	2	
Bus Price		
Customer Base Bus Price	\$897,992.69	
Configurable Price	\$117,508.81	
Battery Lease Discount	\$0.00	
Voucher Discount	\$0.00	
Warranty	\$27,039.00	
Total Per Bus Price	\$1,042,540.50	
Total Extended Bus Prics	\$2,085,081.00	
Bus Add Ons		
Tools	\$3,674.00	
Spares	\$59,053.00	
Training	\$114,674.00	
Manuals	\$0.00	
Total Bus Add Ons	\$177,401.00	
Total Freight (Estimated)	\$22440	
Total Proterra Transit Price	\$2,284,922.00	
Charger - Product Sale Detail	\$0.00	
Charger Installation	\$0.00	
Proterra Energy Total	\$0.00	
Total Project Price	\$2,284,922.00	
Buy America Required?	Yes	
Buy American Required?	No	
Customer Technical Specification?	No	
CPM	Rebecca Chadwick	
Application Engineer	Avery White	



Revisions			
Revision Id	Name	Comment	Created Date
333	Revision_5	Project Finalized	9/26/2023
330	Revision_4	Update per Design Review	9/18/2023
284	Revision_3	Engineering Clarification	6/14/2023
274	Revision_2	Engineering Clarification	5/12/2023
262	Revision_1	Switch Plate Update	4/19/2023
130	Revision_0	Project Created	10/18/2022



Configuration Summary

Feature Group	Feature	ID	Selection
Air System	Air compressor	5	Hydrovane
	Air dryer	6	Bendix
	Air storage Tank	8	Air Storage Tank
	Towing - Air System	536	Air Fittings, Standard
Bus Body	35' Bus Body	17	FMVSS, w/Rear Window
	Access Door Latch/Locks	19	Square Key
Cabin Interior	ADA Ramp	210	Lift U LU18 6:1 / 8:1
	Decals & Numbering	ETO-593	English, French, and Spanish decals to match BSOOB, plus "bus knees" and "no firearms" decals. Reference quote.
	Flooring	146	Altro Chroma Cayman 2.7mm TFCR2761
	Interior Document Holders/Advertising	1177	None
	Interior Mirrors - CS Front	129	Flat 8.5" Round
	Interior Mirrors - Rear Door	130	Convex 12" Round
	Interior Mirrors - Rearview	126	Flat 5x15.5"
	Modesty Panel	97	Modesty Panel At Step Up On CS and SS
	Modesty Panel - Panel Color	96	Matrix Gray [#53424]
	Modesty Panel - Tubing Color	91	Powder Coated Finish - Yellow RAL-1023
	Overhead Grab Strap Attachment	117	Loose
	Overhead Grab Strap Color	123	Grey
	Overhead Grab Strap Material	120	Extruded Nylon
	Overhead Grab Strap QTY	108	6
	Passenger Assist - Farebox	106	Matching Farebox
		ETO-668	Farebox passenger assist to be stainless steel
	Passenger Assist - Front Dash	105	Standard Dash Layout
	Passenger Assist - Horizontal Tubing Color	76	Stainless Steel - 180 Grit Polish
	Passenger Assist - main floor	103	Matching Seat Layout
	Passenger Assist - rear door area	101	Matching Seat Layout
	Passenger Assist - Stop Request Stanchion Color (Forward of Rear Door)	87	Powder Coated Finish - Yellow RAL-1023
	Passenger Assist - upper floor	104	Matching Seat Layout
	Passenger Assist - Vertical Tubing Color	81	Stainless Steel - 180 Grit Polish
	Passenger Stop Request	217	Pull Cord
	Passenger Stop Request - Interior Sign	226	Backlit Stop Requested Sign
	Passenger Stop Request - Stanchion	223	Single Button on Stanchion Forward of Rear Door
	Prop 65 Warning Decal (California Contracts)	1483	No
	Vehicle Emissions Placard	1485	EPA
	wheel well box - CS	231	Safety Equipment and Driver Storage
		1472	Driver's Locking Storage Box inside CS Wheel Well Box: Key S010"
	wheel well box - SS	232	Configurable Electronic Equipment
		1471	Wheel Well Boxes Lock-in-Handle: Key CH751
Chassis and Propulsion	Brakes	1203	Brake Wear Indicator
		252	Knorr-Bremse
	Drivetrain	233	Prodrive
	Front axle	235	RL82 EC
	Front Suspension	236	ZF - IFS
	Rear Axle	237	ZF
	Rear Suspension	239	ZF - H-Frame
	Tire	245	Michelin X InCity Energy Z LR L- 315/80R22.5
	Towing	255	Capable of front tow, no rear tow
	Wheel	241	Clean Buff Aluminum, ALCOA PN 896517
	Wheel and Tire Accessories	249	Torque Indicators, Green (Wheel Check WLCH-B)
		250	Valve Stem Extensions, Inside Rear Wheels, Plastic (Alcoa)
Climate Control	Aux Defrost	1168	None
	Aux Heat	268	35', Diesel Fired
	Defroster	260	MCC
	Ducting	261	Overhead Diffuser
	Filter	265	Merv10 Equivalent, Carbon Air Filter, Valeo
		1207	Air Purifier
		ETO-1420	Note: Air Purifier selected is USSC
	HVAC	257	Valeo
Customer Electronics	Antennas	274	Rooftop Mounting
		ETO-669	AFTS (VHF 1/4 wave antenna) [Proterra to source and install]
		ETO-1096	LG-IN2293-B (9 and 1 hockey puck antenna for gps/wifi/lte) [Proterra to source and install]
	Automatic Passenger Counters	1206	None
	Destination Signs - Curb Side	311	Hanover, Silver/White 112x15
	Destination Signs - Dash	1185	None



	Destination Signs - Front	305	Hanover, Silver/White 160x17
	Destination Signs - Rear	317	Hanover, Silver/White 48x15
	Destination Signs - Street Side	1186	None
	Driver Assistance	1187	None
	Event Switch	1139	DVR Event Marker Switch
		1198	Emergency Alert Switch
	ITS	276	None
		ETO-881	Electrical provisions for GPS AVL unit. Provision power (12V) and ground to dash in front of steering wheel, SWV.
	PA System	325	REI PA Only System, Speaker Select Button, Gooseneck Mic - With Switch On Mic
	Passenger Wifi	ETO-2531	Proterra to source and install Cradlepoint wifi MA1-1700600M-NNA. Configured for Biddeford Saco Old Orchard Beach Transit utilizing US Cellular network. 12vdc 2A fuse nonswitched.
	Pedestrian Turn Warning	303	Proterra ADA Alarm tied to Left/Right Turn Signal
	Voice/CB 2 Way Radio	ETO-598	Provisions for ICOM VHF 5061D [provision only power (12V) and ground 12 AWG] to the streetside wheel well box. Radio will be mounted by BSOOB in the streetside wheel well box with remote head located on the dash.
	VOICE/CB 2 WAY RADIO INSTALLATION	1481	Mechanical & Electrical Provisions - [manufacturer and model required]
Exterior Attachments	Bike Rack	342	Sportworks 3 position - DL3 Trilogy, Stainless Steel
	Bike Rack Sensor	1172	None
	Exterior Lights - Doors	368	Light at Rear Door
		367	Light at Front Door
	Exterior Lights - Front	360	Clearance and ID Lights
		361	Headlights - LED
		362	Front Turn Signals - LED
	Exterior Lights - Front Door Opening	366	Kneeling Indicator Light
	Exterior Lights - Marker Lights	369	4 Amber, 2 Red on each side
	Exterior Lights - Rear	356	Brake Lights
		358	Clearance and ID Lights
		357	Reverse Lights
		ETO-885	Yield to bus sign. Match location of BSOOB1. Controlled by CAN switch on the LH CAN bank.
	Exterior Lights - Side	365	Side Turn Signal
	Exterior Lights - Trunk Panel	359	Red Brake Light
	Exterior Mirrors - Curb Side	353	Safe Fleet Tube Style High Mount
	Exterior Mirrors - Street Side	348	Safe Fleet Tube Style Low Mount
	Front Bumper	371	Bumper
	Front License Plate Holder	337	Front Plate Holder
	Rain Gutters	1457	Base - Integrated Into Rooftop Design
	Rear Bumper	372	Bumper
	Rooftop Escape Hatches	335	Clear, Manual
	Skid Plates	389	Front Door, Dual Attachment Stainless Steel
		390	Front Underbody, Stainless Steel
	Windshield Wipers	370	Windshield Wipers
Exterior Finish	Exterior Decals	1146	Fleet Numbers
		387	Proterra Decal Package
	Exterior Decals - Fleet Numbers	ETO-2530	Last 4 of VIN - location to match BSOOB
	Exterior Finish	1205	Custom Wrap Quote
		379	Seam Conseal
	Exterior Paint	373	None
HV Energy System	CS Front Charging	1166	None
	CS Rear Charging	396	J1772 CCS (plug in)
	HV Batteries	393	450kWh - Six Packs
	Overhead Charging	399	SAE J3105 IP Inverted Pantograph + Charge guard
	SS Rear Charging	397	J1772 CCS (plug in)
Interior	Access Panels, Operators Area	408	Standard Access Panels
	Access Panels, Rear Deck	414	Standard Access Panels
	Fire Safety Specification	402	FMVSS 302
	Trim, Ceiling Panel	405	Color: Gray FX 791C
	Trim, Operators Area	407	Color: Porch #53471
	Trim, Rear Deck	413	Color: Porch #53471
	Trim, Wall	403	Color: Gray FX 791C
Interior Passenger Display Monitors	Vendor	1178	None
Low Voltage	Circuit Protection	561	Resettable Circuit Breakers
	LV Batteries	420	LV Batteries
	Vehicle Master Disconnect Switch	421	Master disconnect switch



Manuals	Electrical Schematic	1082	PDF, Unlimited Electronic View and Download Access (Sharefile)
	Maintenance and Repair Manual	1080	PDF, Unlimited Electronic View and Download Access (Sharefile)
	Operator's Manual	1079	PDF, Unlimited Electronic View and Download Access (Sharefile)
	Parts Manual	1078	PDF, Unlimited Electronic View and Download Access (Sharefile)
	Quick Reference Guides	1081	PDF, Unlimited Electronic View and Download Access (Sharefile)
Operators Area	Driver Controls - Additional Switches	1441	Pedestrian Turn Warning Disable Switch
	Drivers Amenities	452	Cup Holder
		453	Drivers Coat Hanger
		454	Dash Fans
		ETO-879	USB outlet on front left dash. Match BSOOB.
	Drivers Foot Controls	446	Non-Adjustable Pedals
	Drivers Seat	ETO-599	Base seat with 2-pt/3-pt optional seat belt. P/N 8H0.0B.A91.VV11 (Match BSOOB)
	Farebox	668	Diamond, SV 22.5"
		ETO-597	Mechanical and electrical provisions for DIAMOND SV farebox. Power and ground coiled behind panel, no holes drilled on platform.
		ETO-877	Electrical provisions for Getac fare tablet. [Ethernet from router and 12V power and ground coiled behind panel]
		ETO-878	Electrical provisions for Delorok Fare Reader coiled behind panel [Ethernet, 12V power, 18AWG ground, 1A fuse]
	Farebox Installation	463	Mechanical & Electrical Provisions
	Front Sunshade	427	Front Window 48" (Half solid/Half Mesh, Horizontal Divide)
	Left Foot Switches	448	Push Buttons 3
	Monitor Location	1074	Monitor Location 1
		ETO-675	Location 1: Monitor 1 from Surveillance Template/quote Location 3: Remote radio head (BSOOB to install) Location 4: Getac tablet (BSOOB to install) Tablet in farebox location
	Operators Barrier	462	Full Barrier w/dutch door, fixed laminated glass Arow MV307
	Overhead plate	466	ETO - Reference Template
	Side Sunshade	430	Side Window 48" (Half solid/Half Mesh, Vertical Divide)
	Steering Wheel	424	20" diameter, 2-spoke, semi-gloss black powder coated spokes with plastic molded rim
	Switch Layout - Front Right Dash - CAN Bank	ETO-2650	CAN Bank with Overhead Charge Switch - plus add Pedestrian Turn Warning Disable Switch
	Switch Layout - Front Side Console - CAN Bank	ETO-673	Option AAD plus "Yield to Bus" switch.  Yield Switch to be one position momentary. To actuate: Press and hold the left turn foot switch, then press the momentary yield switch. To deactivate: stop pressing the left turn switch.
	Switch Layout - Front Side Console - Door Switch	433	Proterra base 5-Position Door Switch
	Switch Layout - Lower Side Console	1162	Standard Layout
		444	Emergency Alert Switch
	Switch Layout - Rear Side Console	655	Option D: Door Release, DVR Event Marker Switch, & Cup Holder
		ETO-674	Option D, plus add an additional USB outlet between event marker switch and cup holder (match BSOOB).
Overhead System	Ad Holders	470	11"
	Hadley Access Panels	472	Hinged, 1/4 Turn Fasteners
	Lighting	467	White LED w/ White Cover
Passenger Doors	Door Safety	526	Dual Redundant System - Sensitive Edge + Motor Feedback
	Front Door	516	Ventura, Pneumatic, In-Swinging
	Rear Door	519	Ventura, Pneumatic, In-Swinging
	Rear Door Operation	524	Passenger Authorized - Contactless
Passenger Seating	ADA Barrier - CS	564	Q'Pod Barrier
	ADA Barrier - SS	571	No Barrier
	ADA Barrier Color	604	980 Grey
	ADA Logo	1209	None
	ADA Passenger Stop Request	219	Touch Pad - Rectangle
	ADA Placard	ETO-612	Placard in English, Spanish, and French
	ADA Seat Locking Position - CS	619	Lock Up and Down
	ADA Seat Locking Position - SS	622	Lock Up and Down
	ADA Seat Type - CS	573	Three Seat Slim Flip-Up



	ADA Seat Type - SS	577	Three Seat Slim Flip-Up
	Passenger Seating - Model	24	Insight Prime
	Passenger Seating Accessories	654	USB Ports
		ETO-667	USB Port decal - front of bus
	Passenger Seating Armrests	ETO-2661	Stainless steel with stainless insert (match BSOOB)
	Passenger Seating Back Panel Material	597	989 Blue
	Passenger Seating Grab Rail Material	611	Plastic Match to Seat
	Passenger Seating Layout - Lower Floor	ETO-2905	Match BSOOB - CS Q-Pod with barrier, SS 4-Point ARM with no barrier
	Passenger Seating Layout - Rear Deck	56	Option 35.A
	Passenger Seating Module Material	589	989 Blue
	Passenger Seating Quote	1196	Custom Seating Quote
	Passenger Seating Seat Back Padding	1467	No Padding
	Passenger Seating Seat Padding	1468	No Padding
	Passenger Seating Vendor	20	American Seating Company
	Wheelchair Restraint - CS	34	3pt - Q'Straint Q'Pod
	Wheelchair Restraint - SS	39	4pt Securement - Floor Mounted A.R.M. + Barrier
Safety Equipment	Accessories	477	Triangle
		478	First Aid Kit
		1111	Fire Extinguisher
	Fire Suppression	474	Amerex, 4 Nozzle
Software - Door Interlocks	NVP_DOOR_CSFDoorInterlockSetting	1243	TRUE
	NVP_DOOR_CSFDoorStandStillSpeed_mph	1232	3mph
	NVP_DOOR_CSFStandStillOverride	1238	FALSE
	NVP_DOOR_CSFStandStillRRCrossing	1240	FALSE
	NVP_DOOR_CSRDoorInterlockSetting	1244	TRUE
Software - Driver Sensor	NVP_DWC_DriverInSeatSensor	1416	FALSE
	NVP_DWC_SeatBeltSensor	1417	FALSE
Software - Exterior Lights	NVP_EXLI_BrakeLightsDuringRegen	1273	TRUE
	NVP_EXLI_HazardLightWhenDoorsOpen	1272	TRUE
	NVP_EXLI_NoLightsDuringCharge	1261	TRUE
	NVP_EXLI_RampLights	1263	Right Turn
	NVP_EXLI_RHSCLights	1267	Right Turn
Software - Front Exterior Audible Alarm	NVP_EBUZ_AlertDuringKneel	1309	TRUE
	NVP_EBUZ_AudibleTurnSignal	1305	Turn Signals
	NVP_EBUZ_RampAudible	1307	TRUE
Software - HVAC	NVP_HVAC_FixedCabinSetpoint_c	1275	20°C
	NVP_HVAC_MaxAuxHeatMainTemp	1452	5°C
	NVP_HVAC_MinOnlyDieselTime_min	1287	90 min
	NVP_HVAC_MinOnlyElectricHeatTime_min	1290	5 min
	NVP_HVAC_NoAuxWithCharger	1296	TRUE
Software - HVAC Configuration	NVP_HVAC_AuxHeaterInstalled	1420	TRUE
Software - Interior Lights	NVP_DOOR_EntranceLightingEnabled	1311	TRUE
	NVP_DOOR_EntranceTimeLimit	1313	30 sec
	NVP_INTLI_CleanTime	1340	30 min
	NVP_INTLI_CSFWalkwayLights	1322	High
	NVP_INTLI_CSRWalkwayLights	1327	Dim
	NVP_INTLI_SSFWalkwayLights	1330	High
	NVP_INTLI_SSRWalkwayLights	1335	Dim
	NVP_INTLI_WorkTime	1341	30 min
Software - Interlock	NVP_INLK_InterlockOverrideAlarm	1350	TRUE
	NVP_INLK_SeperateINLKOverrides	1348	FALSE
Software - OPTIONS	MetricUnitsDisplayed	1421	FALSE
	NVP_DOOR_DoorType	1433	Ventura
	NVP_OPTN_BrakeWearLimit_pct	1425	10%
	TPMSSIInstalled	1423	FALSE
Software - Powertrain	FowardSpeedLimit	1387	65
	PerformanceMode	1403	ECO
	ReverseSpeedLimit	1393	8
	RNDLConfiguration	1406	RND (D - Heavy, L - Disabled)
	TireSize_revpmi	1399	Michelin X InCity Energy Z
Software - Ramp	NVP_RAMP_KneelWhileRampDeploy	1352	TRUE
	NVP_RAMP_ParkBrakeforRamp	1354	TRUE
Software - Ride Height and Kneeling	NVP_RHSC_AutoKneelWhenDoorsOpen	1373	FALSE
	NVP_RHSC_DisableAutoAdjustwDoors	1371	FALSE
	NVP_RHSC_DoorClosedForKneel	1363	FALSE
	NVP_RHSC_DoorsClosedforRHSC	1365	FALSE
	NVP_RHSC_DrivingHeightEnabled	1367	TRUE
	NVP_RHSC_FDoorOpenRqrdForKneel	1361	FALSE
	NVP_RHSC_InterlockDuringKneel	1356	TRUE



	NVP_RHSC_KneelSetting	1358	Front Axle
	NVP_RHSC_ParkBrakeForKneel	1369	FALSE
Software - Vehicle Controller	AirDryerType	1383	Bendix
	Body Interlock Release	1379	Brake
	Charge Indefinitely	1377	TRUE
	Interlock Press to Set	1381	TRUE
	Overhead Charger Installed	1376	TRUE
	Port B Installed	1386	TRUE
Software- Core Functions	LowSocBuzzer	1220	TRUE
	NVP_CORE_DaytimeRunning	1217	TRUE
	NVP_CORE_HVIdleTimeLimit_min	1214	20 min
	NVP_CORE_LVIdleTimeLimit_min	1208	30 min
	NVP_CORE_RearRunHVTimeLimit_min	1227	0
Spares	Recommended Spares	531	Initial Recommended Spare Parts
	Wheels and Tires Spares	1084	Wheels and Tires Spares Selection
Surveillance	Surveillance Layout	292	35'
		ETO-671	Reference tempate, Match BSOOB, except remove camera C and add camera D
	Surveillance Vendor	287	SEON
Tools	Tools	ETO-963	Arc Flash PPE High Voltage Glove Kit 80PC Insulated Tool Set Wiha 32800 Insulated set.
Training	Custom Training Program	ETO-1222	Custom training/Workforce Development
Warranty	Warranty, Auxiliary Heating	1001	2 Year/100,000 Std
	Warranty, Battery Base Materials and Workmanship	1007	6 Year Std
	Warranty, Battery State of Health	1005	6 Year Std
	Warranty, Body	1009	12 Year/500,000 Std
	Warranty, Chassis System	1013	3 Year/250,000 Ext
		1010	2 Year/100,000 Std
	Warranty, Complete Vehicle, ProDrive, (Limited)	1019	1 Year/50,000 Std
	Warranty, Configuration Package	1024	2 Year/100,000 Std
	Warranty, Control Systems and Driver Convenience	1028	2 Year/100,000 Std
		1031	3 Year/250,000 Ext
	Warranty, Datalogger (Limited)	1032	12 Years / 500,000 Miles
	Warranty, HV Power Electronics and Cooling	1040	2 Year/100,000 Std
	Warranty, HVAC (Valeo)	1033	3 Year/Unliminted Std
		1048	2 Year/100,000 Std
	Warranty, Propulsion System, ProDrive	1051	3 Year/250,000 Ext
		1052	3 Year/150,000 Std
Windows	Driver's Window SS1	479	79% Green, 5mm Tempered Glass
	Egress QTY	557	4
	Graffiti Protection	1176	None
	Passenger Window CS1	503	Destination Sign Window
	Passenger Window CS2	507	Tip-In
		1148	Basic, Non-Egress
	Passenger Window CS3	509	Tip-In
		1149	Basic, Non-Egress
	Passenger Window CS4	511	Tip-In
		1150	Basic, Non-Egress
	Passenger Window CS5	512	Egress
		513	Tip-In
	Passenger Window SS2	490	Tip-In
		1153	Basic, Non-Egress
	Passenger Window SS3	491	Egress
		492	Tip-In
	Passenger Window SS4	494	Tip-In
		1155	Basic, Non-Egress
	Passenger Window SS5	495	Egress
		496	Tip-In
	Passenger Window SS6	498	Tip-In
		1157	Basic, Non-Egress
	Passenger Window SS7	500	Tip-In
		550	Egress
	Passenger Window Tint	481	50% Light Transmittance, 5mm thickness
	Rear Window	1197	6.4mm Laminated, 74% Light Transmittance
	Serviceability	484	Standard Attachment



	Windshield	1443	Standard Front Windsheild
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Configuration Approval

DocuSigned by:

Signature:

Chad Heid

67B695037E2041A...

Date:

10/1/2023

Printed Name:

Chad Heid

Title:

Executive Director