



Council Business Meeting

November 21, 2023

	Contract for Fire and Rescue Ambulance	
From	Ralph Sartain	Fire Chief
Contact	Ralph.sartain@ashland.or.us	
Item Type	Requested by Council <input type="checkbox"/> Update <input type="checkbox"/> Request for Direction <input type="checkbox"/> Presentation <input type="checkbox"/>	

SUMMARY

In the adopted budget we were authorized to purchase two ambulances. As you are aware the single role has gone into service and the ambulance, we had hoped would be able to work while we were waiting for full processing had suffered from mechanical issues including breaking down while responding to a call. Council had authorized an Emergency Procurement for that ambulance, and we are happy to report we will be picking this ambulance up on December 18th.

For this purchase Braun Northwest paid a fee to allow the authorization and use of the Ford Transit Van as an Ambulance in the State of Oregon. This is the only company to offer the Ford Transit Ambulance in the State. For this they are a single source purchase, and all due diligence has been used to determine if additional vendors could be located.

As Council is aware from the business proposal, we are switching the single-role EMS providers into a smaller and more economical vehicle for the amount of driving they are doing while maintaining a fleet of three heavier ambulance chassis for our dual role-FF/EMT/EMT-P's. As part of the build out we had located the Ambulance Chassis for \$125-128,000. Because of supply chain issues and inflation those same vehicles are now \$158,215. This ambulance will be used by our teams of single roles as we build out our fleet and our program. Any overage in the account for the two ambulances will be offset in a decrease in the cost of the Heavy Brush which was also appropriated in this budget process.

We have secured the ambulance and now need to have approval from the Council to spend the money already appropriated in the 2023-2025 BN Budget.

POLICIES, PLANS & GOALS SUPPORTED

Implementation of single role ambulance service.

Prior Council Communications

Citizen Budget Committee presentation

Council Adoption of recommended budget

Line-Item transfer for fleet purchases

FISCAL IMPACTS

Budgeted \$158,215 for single-role ambulance purchase.

DISCUSSION QUESTIONS

None

SUGGESTED NEXT STEPS





Council Business Meeting

I move to sign the contract for the procurement of the budgeted ambulance from Braun NW Inc, Chehalis WA.

REFERENCES & ATTACHMENTS

Form 6

Braun Demonstrator Proposal

SOLE-SOURCE DETERMINATION AND WRITTEN FINDINGS**GOODS AND SERVICES****Greater than \$100,000**

To: *Sabrina Cotta, Interim City Manager*

From: *Ralph Sartain, Fire Chief*

Date: *Nov 21, 2023*

Re: **Sole Source Determination and Written Findings for Goods and Services**

In accordance with AMC 2.50.090(F), the Department Head shall determine in writing that there is only one provider of a product or service of the quality and type required available.

Estimated total value of contract: *\$158,215*

Project name: *Single-Role Ambulance Purchase*

Description of goods and services: *2024 North Star Type II Ambulance Demonstrator #3605-2 on a 2023 Ford Transit AWD Medium Roof Cargo Van*

Background:

A business plan was presented to council for the creation of a Single-Role Emergency Services Provider (SREMS). Part of the build out of the model is to provide more economical ground ambulances to the SREMS. We attempted to purchase the Ford Transit vans shortly after approval of the SREMS program. We found that the Ford Transit Ambulance was used in multiple other states, however, Oregon had not yet authorized the licensing as a EMS test had not been completed. Braun NW paid for the test and now can license the Ford Transit Ambulances.

We chose this style of Ambulance for many reasons including product availability, cost, the engine and transmission specifications, comfort of staff and patients in this Type II Ambulance. We also looked at service records of similar van style ambulances and found that Ford was a more reliable product. As Braun NW is the only provider of the Ford Transit Ambulance in the State of Oregon they are a sole source provider and a competitive bid process is not necessary.

Findings:

[The findings below must include factual information supporting the determination].

Market Research Overall finding: *We have called 4 ambulance service providers and Braun is the only one who is now able to carry and build the Ford Transit Ambulance Van Chassis.*

[In accordance with ORS 279B.075, these are the examples of findings that should be addressed. **Select at least one of the findings and prepare the determination** as it specifically relates to the goods or services being procured. More than one finding can be addressed. The findings are as follows.]

Pursuant to ORS 279B.075 (2)(a): Provide findings supporting your determination that the efficient utilization of existing goods requires the acquisition of compatible goods or services from only one source.

The Ford Chassis ambulance can be serviced at our service center and any major repair can go to the local Ford dealership. The other style van ambulances cannot be serviced at our shop and need to be sent out of the area for major repairs. Braun NW is the only ambulance service provider who has paid for the test needed to license the Ambulance in the State of Oregon.

Pursuant to ORS 279B.075 (2)(b): Provide findings supporting your determination that the goods or services required for the exchange of software or data with other public or private agencies are available from only one source. N/A

Pursuant to ORS 279B.075 (2)(c): Provide findings supporting your determination that the goods or services are for use in a pilot or an experimental project. N/A

Pursuant to ORS 279B.075 (2)(d): Any other findings that support the conclusion that the goods or services are available from only one source. N/A

PUBLIC NOTICE:

Pursuant to OAR 137-047-0275 (2), a Contracting Agency shall give public notice of the Contract Review Authority’s determination that the Goods and Services or class of Goods and Services are available from only one source in a manner similar to the public notice of Competitive Sealed Bids under ORS 279B.055(4) and OAR 137-047-0300. The public notice shall describe the Goods or Services to be acquired by a Sole Source Procurement. The Contracting Agency shall give such public notice at least seven days before Award of the Contract.

After the Sole Source Procurement has been approved by the City Council, the following public notice will be posted on the City’s website to allow for the seven (7) day protest period.

Date Public Notice first appeared on www.ashland.or.us - *[Enter date]*

PUBLIC NOTICE
Approval of a Sole Source Procurement

First date of publication: *[Enter date]*

A request for approval of a Sole Source procurement was presented to and approved by the City Council, acting as the Local Contract Review Board, on *[Enter date]*.

It has been determined based on written findings that the following Goods and Services are available from only one source.

2024 North Star Type II Ambulance Demonstrator #3605-2 on a 2023 Ford Transit AWD Medium Roof Cargo Van

The contract terms, conditions and specifications may be reviewed upon request by contacting *Ralph Sartain, Fire Chief, 455 Siskiyou Blvd Ashland*

An affected person may protest the determination that the goods and services are available from only one source in accordance with OAR 137-047-0710. A written protest shall be delivered to the following address: *City of Ashland, Ralph Sartain, Fire Chief, Ashland Fire & Rescue, 455 Siskiyou Blvd, Ashland, OR* The seven (7) day protest period will expire at 5:00pm on *[Enter date-seven calendar days from first date of publication]*

This public notice is being published on the City’s Internet World Wide Web site at least seven days prior to the award of a public contract resulting from this request for approval of a Sole Source procurement.



150 North Star Drive / PO Box 1204 / Chehalis, WA 98532 / 360.748.0195 / 800.245.6303 / fax 360.748.0256

DEMONSTRATOR PROPOSAL

November 1, 2023

Ashland Fire & Rescue
Attn: Ralph Sartain
455 Siskiyou Blvd.
Ashland, OR 97520
ralph.sartain@ashland.or.us
541-552-2229

RE: One (1) 2024 North Star Type II Ambulance Demonstrator #3605-2

Braun Northwest is pleased to offer the following proposal:

One (1) 2024 North Star Type II Ambulance Demonstrator #3605-2 on a 2023 Ford Transit AWD Medium Roof Cargo Van gas chassis per enclosed specifications dated 10/30/23 and drawings dated 09/19/23.

Total F.O.B. Chehalis, WA \$158,215.00*
Sales tax not included

F.O.B.: Chehalis, Washington

Delivery: *April/May 2024, based upon current manufacturing plan. Please note this date can change based upon changes to production and chassis arrival.

Terms: Ninety percent (90%) payment due upon receipt of vehicle. Balance due in thirty (30) days.

**Note: Vehicle offered on first come first served basis and is being offered to other agencies. Pricing above and option page is based upon signed proposal and option page being returned prior to unit entering production. Should unit be in production when signed proposal is returned, pricing will be adjusted accordingly and some options might not be able to be offered any longer.*


***The above pricing is valid until December 31st, 2023. Any proposal, signed and returned after this date will have a price increase associated with it, to be completed via change order.*

(Note: This bid is contingent on use of customer's Government Ford Fleet Identification Number.) Failure to secure a FIN will increase the price by the amount of the GPC chassis discount.

*Braun Northwest, Inc. is an Oregon dealer (#8475873) with insurance information available upon request.
Braun Northwest, Inc. is a Washington dealer (0991-A) with insurance information available upon request.*

Respectfully Submitted by:
Braun Northwest, Inc.

We agree to accept the above proposal:
Ashland Fire & Rescue



Tami McCallum, V.P. Sales

Signature Date

Date: 

Printed Name Title

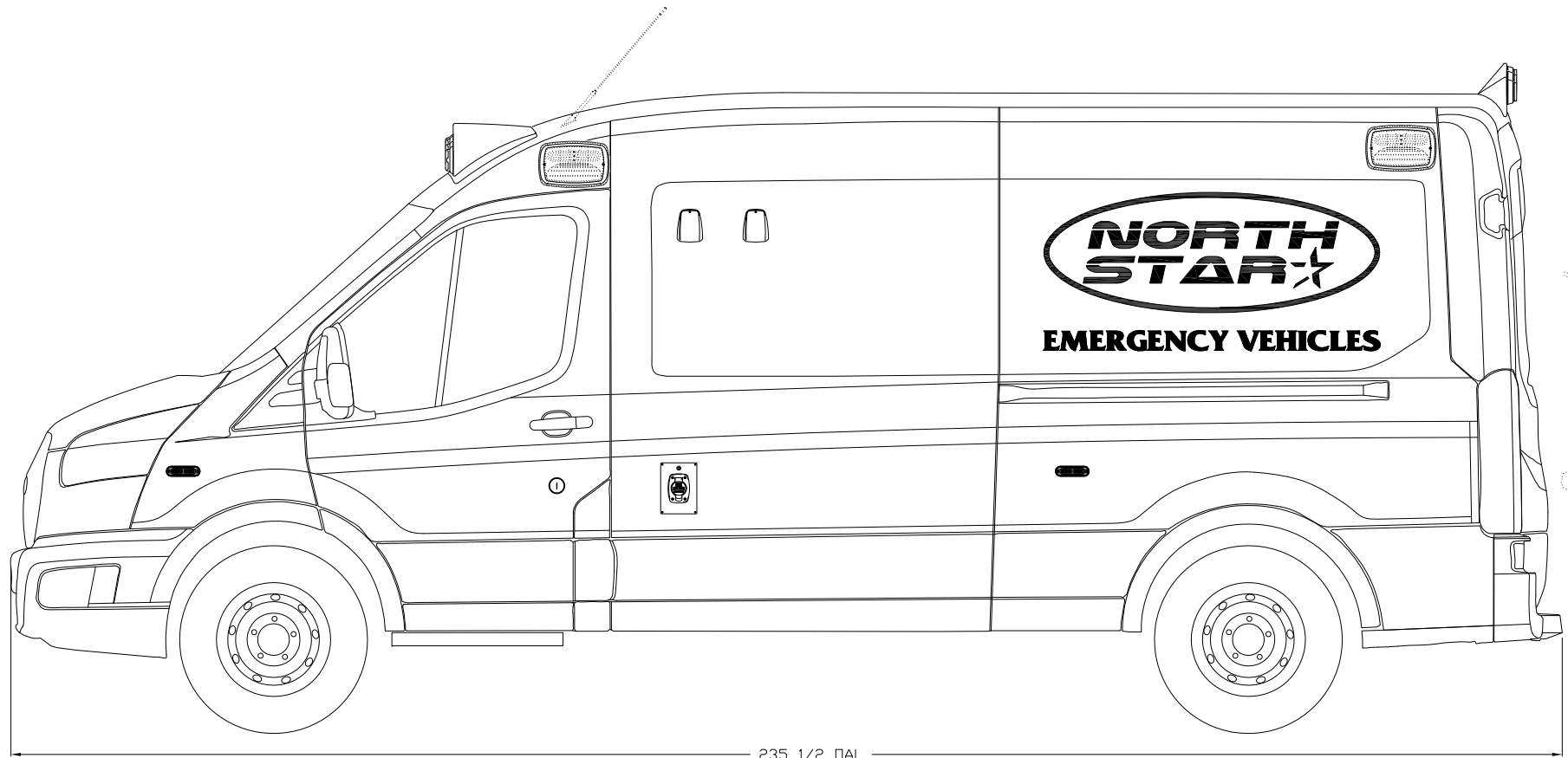
Printed Name Title



TM
cc DW
Enclosures: specifications, drawings.

EMERGENCY VEHICLES

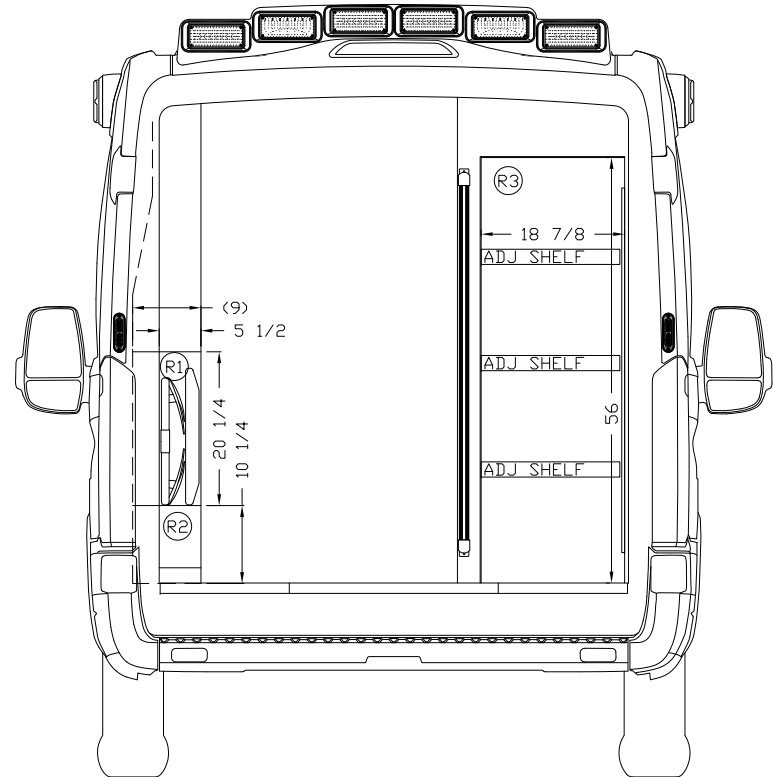
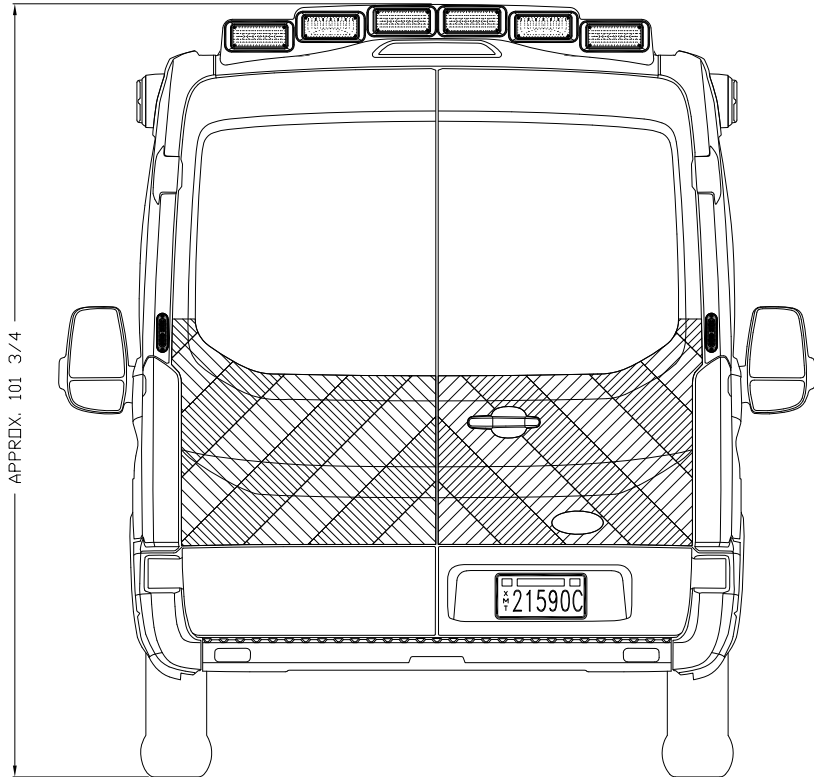
www.braunnw.com



235 1/2 DAL

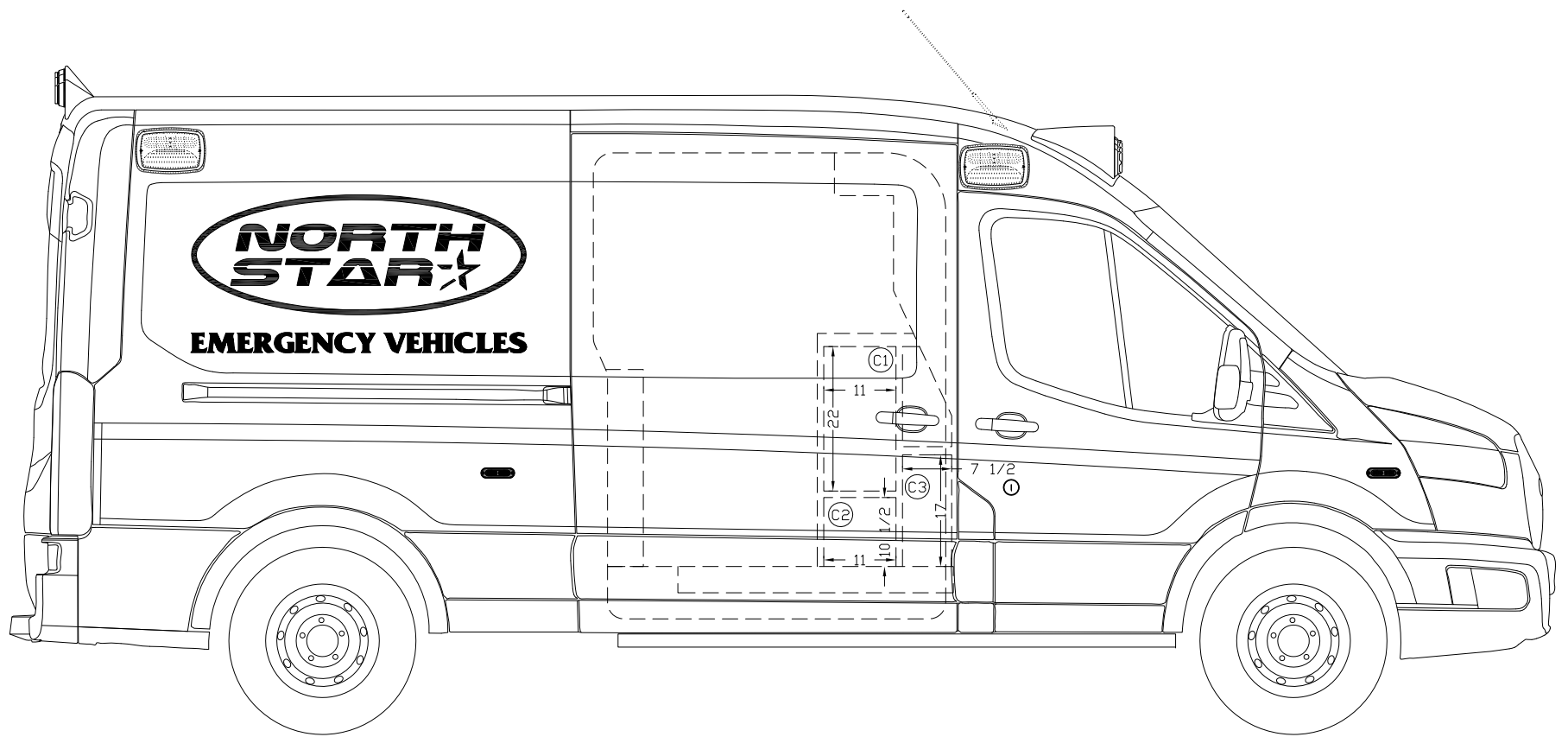
Braun Northwest, Inc.			
Department	SALES		Rev
Dwg. Name	202X_TRANSIT_DEMO1		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: EXTERIOR S/S VIEW



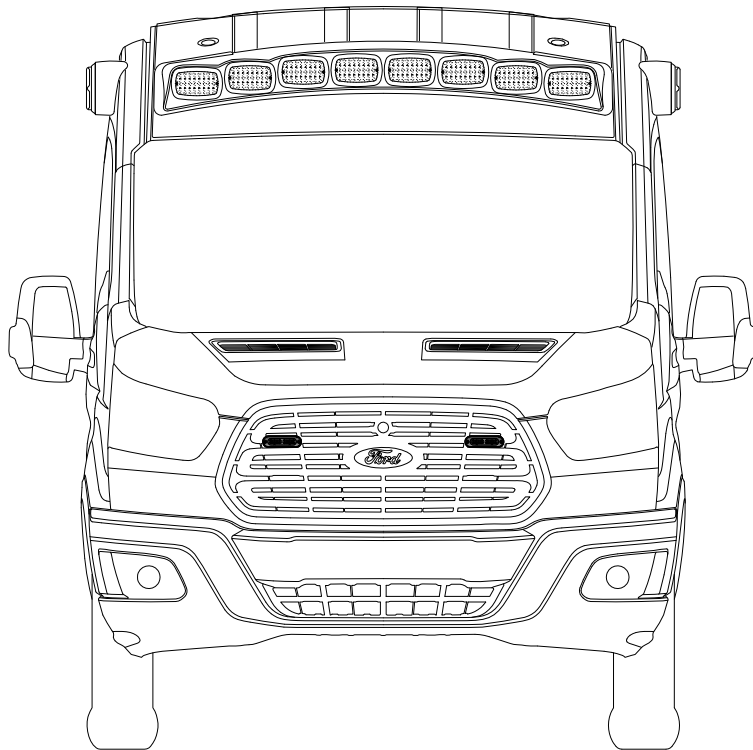
Braun Northwest, Inc.			
Department	SALES		Rev
Dwg. Name	202X_TRANSIT_DEMO2		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: EXTERIOR REAR VIEW



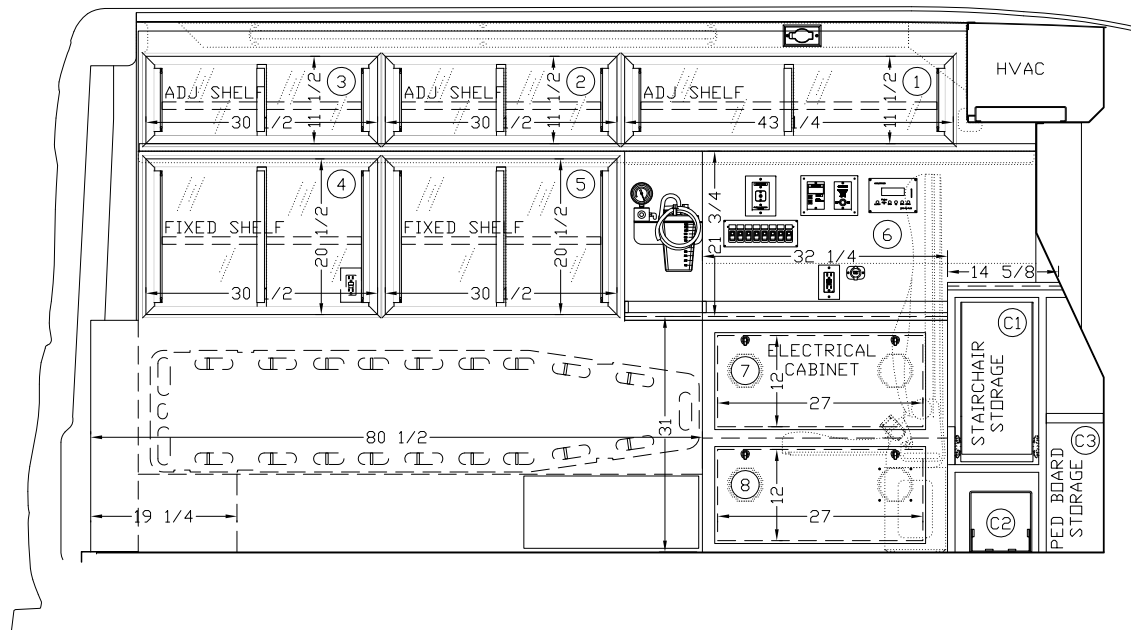
Braun Northwest, Inc.			
Department	SALES		Rev
Dwg. Name	202X_TRANSIT_DEMO3		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: EXTERIOR C/S VIEW



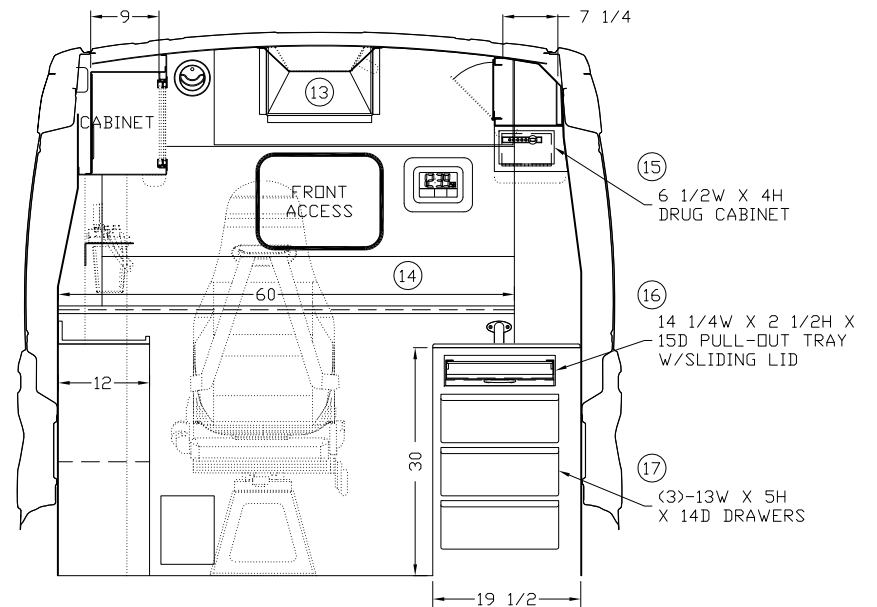
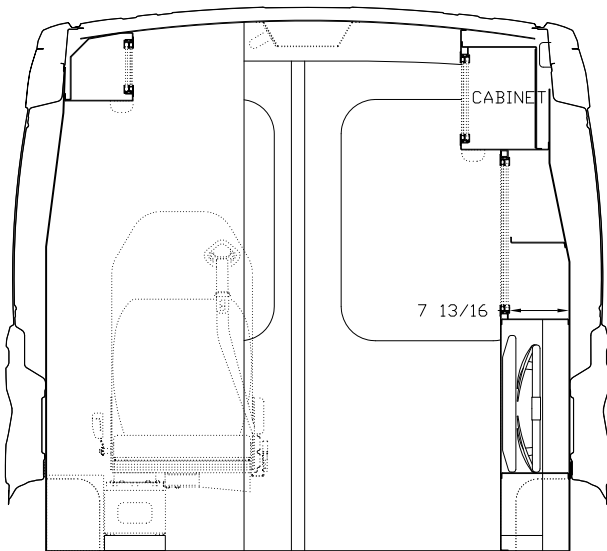
Braun Northwest, Inc.			
Department	SALES	Rev	
Dwg. Name	202X_TRANSIT_DEMO4		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: EXTERIOR FRONT VIEW



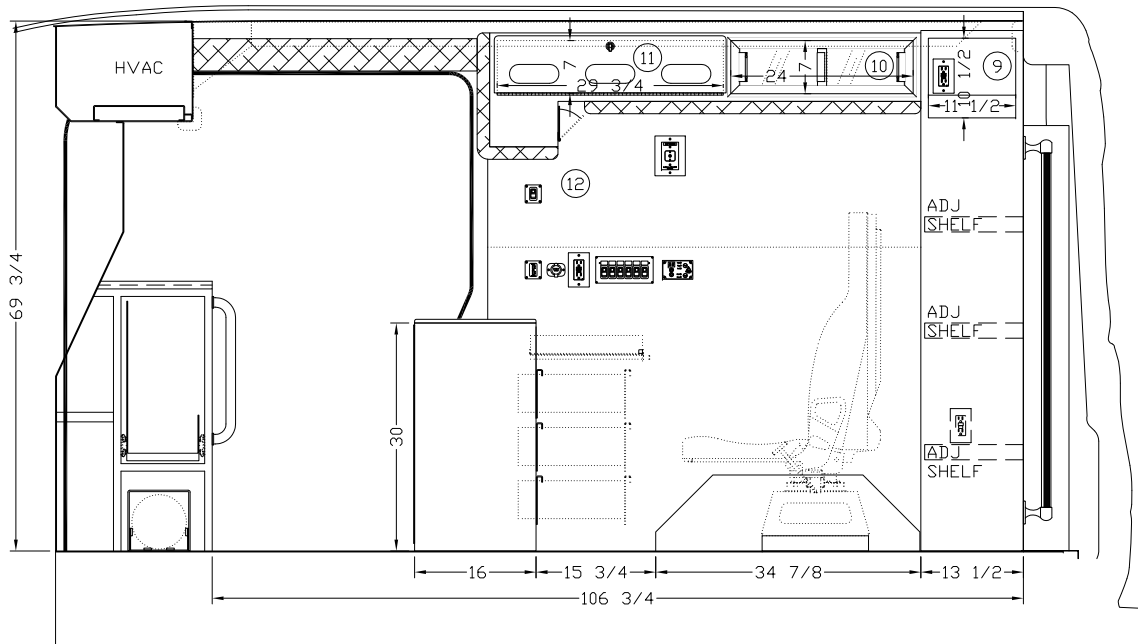
Braun Northwest, Inc.			
Department	SALES		Rev
Dwg. Name	202X_TRANSIT_DEMO5		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: INTERIOR S/S VIEW



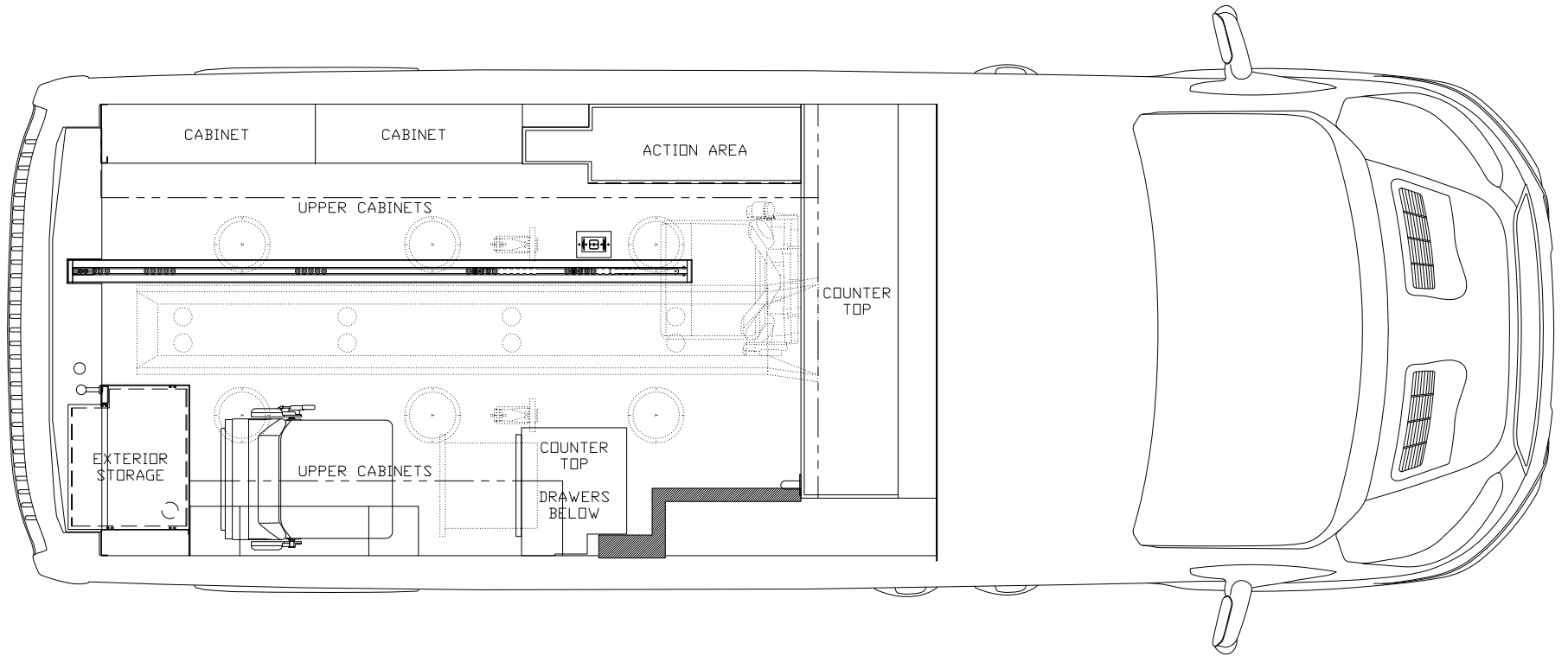
Braun Northwest, Inc.			
Department	SALES		Rev
Dwg. Name	202X_TRANSIT_DEMO6_8		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: INTERIOR REAR VIEW



Braun Northwest, Inc.			
Department	SALES		Rev
Dwg. Name	202X_TRANSIT_DEMO7		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: INTERIOR C/S VIEW



Braun Northwest, Inc.			
Department	SALES		Rev
Dwg. Name	202X_TRANSIT_DEMO9		
Client	202X MEDIUM ROOF TRANSIT DEMO		
Date	09/19/2023	Drawing By	T.A.S.

TITLE: PLAN VIEW

BRAUN NORTHWEST, INC.
DETAILED SPECIFICATIONS
FOR
FORD TRANSIT
DEMO AMBULANCE
3605-2

1 **CHASSIS**

1.01 **OEM CHASSIS**

- 2023 Ford Transit 350 W2C Medium Roof Cargo Van, meeting all the specifications of Section 1.01
 - 3 year/36,000-mile Basic Warranty
 - Ambulance Prep Package (**47B**)
 - Provided by Braun Northwest
 - Single Rear Wheel

1.01.01 **SPECIFIC RATINGS**

- Drive –AWD
- G.V.W.R. – 9,500 lb.
- Wheelbase – 148"
- Rear Differential – 3.73 ratio, limited slip rear axle

1.01.02 **POWER TRAIN**

- Engine – Gasoline
 - 3.5L EcoBoost V6 gas engine
 - 50 State Emissions (**425**)
 - Engine block heater
- Transmission
 - Ten speed automatic overdrive transmission with SelectShift
 - Auxiliary transmission oil cooler

1.01.03 **STEERING**

- Power Assisted steering
- Telescoping, tilt steering wheel
- AdvanceTrac w/Roll Stability Control (RSC)
- Side Wind Stabilization

1.01.04 **SHOCK ABSORBERS/STABILIZER BARS**

- OEM front stabilizer bar
- Heavy-duty shock absorbers rear

1.01.05 **BRAKES**

- Anti-lock 4-wheel disc HD brakes
- Parking brake

1.01.06**TIRES AND WHEELS**

- Five OEM 235/65R16C all-season tires
- Five OEM 16" x 6.5 steel wheels
- Spare tire and steel wheel shipped loose (Section 8.01 related)
- Tire Pressure Monitoring System

1.01.07X**ELECTRICAL**

- Alternator – OEM Dual 250 amp, total 500 amp (**63C**)
- Batteries – OEM Dual AGM (**63E**)
- Hill Start Assist
- OEM modified vehicle wiring system (**53K**)
- Auxiliary fuse panel (**87E**)

1.01.08X**INSTRUMENT PANEL AND CONTROLS**

- Gauges
 - Speedometer
 - Tachometer
 - Fuel Level
 - Coolant Temperature
- Cruise Control (**60C**)
- Ford Pass® Connect 4G Wi-Fi Modem
- Audio – Sync 4 with AM/FM stereo, 12" display, Blue Tooth, Dual USB Port (**58B**)

1.01.09X**CAB EXTERIOR**

- Bumper - Front
- Bumper – Rear, black
- Grille – Front, Honeycomb Mesh with Carbon Black Surround
- Tow Hooks, rear
- Front License Plate Bracket
- Extended Length Running Boards (**68J**)
- Horn – OEM electric, dual note (**85D**)
- Windows
 - Privacy Glass (**92E**)
 - Fixed Rear Cargo Door Glass and Fixed Passenger-side Glass (**17B**)
- Windshield wipers – Automatic, rain sensing
- Doors
 - Dual rear hinged with deep tinted fixed glass; 253° opening rear hinged doors
 - Curbside sliding door with fixed deep tinted glass
- Stepwell pads, black
- Mirrors
 - Two power adjustment, manual folding, short arm (**545**)
 - Rear view day/night mirror
- Lighting
 - Halogen headlamps
 - Wiper Activated Headlamps (**91B**)
 - Fog Lamps (**55D**)
 - Daytime running headlamps (**942**)
 - Roof Marker lamps
- Fuel tank – OEM 31 Gallons, Extended Fuel Tank (**655**)

- Auxiliary fuel port
- High Resolution Digital Back Up Camera (**61E**)
- Reverse Sensor System (**43R**)

1.01.10X

CAB INTERIOR

- Trim Level – XL
- Upfit Package (**67C**)
 - Large Center Console (**67E**)
- Cab Seats – OEM
 - Vinyl, 2-way manual driver and passenger
 - Combination lap and shoulder harness
- Flooring – Vinyl, front only
- Scuff Plate Kit for rear cargo doors and side cargo door (**85A**)
- Climate Control – OEM
 - Rear heater/AC prep package
 - Dehumidifying air conditioning system
 - Rear Window Defroster, included in privacy glass (**92E**)
- Airbags
 - Driver and right-front passenger front
 - Passenger side cut-off switch
 - Safety canopy system with roll-fold side curtain airbags
- Other
 - Locking glove box
 - Cloth headliner, front only
 - Vinyl sun visors with illuminated vanity mirrors (**85C**)
 - Dome light, with dual map lights
 - A-Pillar assist handle, driver and passenger
 - Power door locks & windows
 - Remote keyless entry with 2 key fobs
 - AntiTheft (**59D**)
- One 12V PowerPoint outlet
- 400W power outlet (**90D**)

1.01.11

COLORS

- Exterior – Oxford White (**YZ**)
- Interior – Palazzo Gray

1.02

CHASSIS MODIFICATIONS

The following modifications will be made to the chassis by Braun Northwest

1.02.43

FLOOR REINFORCEMENT

A 15" square x 0.375" aluminum plate above a 15" square, 10-ga steel plate with 1.5" forward flange down shall be attached to the bottom of the van floor for reinforcement of the airway seat attachment. Two pieces of 6"W x 0.375" aluminum flat bar shall be attached to the bottom of the van floor for reinforcement of the curbside attendant seat attachment.

2 PATIENT COMPARTMENT CONSTRUCTION

2.01	MATERIAL		
	FORMED SHEETING	SIZE	ALLOY
	Interior Cabinets	0.090	Aluminum
	Stainless Steel	16 ga., 20 ga.	304 # 4B

2.02 DIMENSIONS

Overall Vehicle Dimensions (Specifications are listed as minimums.)

Length	19 ' 8 "	235.50 "
Width (excluding mirrors)	6 ' 9.3 "	81.30 "
Height (Approximate)	8 ' 6.13 "	102.13 "

Note: Overall height includes rear light housing (Section 6.30.02 related).

Interior Dimensions (Specifications are listed as minimums.)

Length	Forward Wall to Rear Wall	126.00 "
Height	Floor to Ceiling	69.75 "

2.08 MODULE EXTERIOR COMPARTMENTS

All compartments shall be constructed from formed 0.125" aluminum, securely welded to the subfloor and structural framing. A baffled drain hole shall be provided in all exterior compartment bottoms that extend below the floor line. All exterior adjustable shelves shall be mounted on heavy-duty aluminum track, which is securely welded to compartment interiors. Each shelf shall support at least 300 lb of equipment.

COMPARTMENT #R1

Dimensions – 5.5"W x 20.25"H x 80.5"D

Location – Streetside, lower (aft-facing)

Shelving – None

Door(s) – None, open to the rear (backboards held in place by streetside rear OEM door).

Lighting – None

Additional Instructions –

1. Compartment shall provide storage for two *customer-supplied-and-installed* items: one backboard and one scoop stretcher.

COMPARTMENT #R2

Dimensions –5.5"W x 10.25"H x 19.25"D (6"W x 8.5"H opening)

Location – Streetside, aft, lower(aft-facing)

Shelving – None

Door(s) – None

Additional Instructions –

1. This compartment is intended to allow the use of the dead space aft of the wheel well for storage of *customer-supplied-and-installed* equipment.
2. Compartment opening shall have a 2" lip.

COMPARTMENT #R3

Dimensions – 18.75"W x 56"H x 13.5"D

Location – Rear, streetside (aft-facing)

Shelving – Three adjustable, each with a 2.5"D wire access hole

Door(s) – None

Lighting – None

Additional Instructions –

1. One 120VAC GFCI duplex receptacle shall be installed on the streetside wall, lower (Section 6.21X related).
2. One 48"L vertical grab bar with rubber inserts shall be installed on the aft side of the Compartment, toward the streetside (Section 5.05X related). Grab bar shall not interfere with closing of rear curbside passage door.
3. A flange in the vehicle's vertical/longitudinal plane will be added to the aft face of this compartment, curbside of the grab bar, to close the gap between the compartment and the rear door.

COMPARTMENT #C1 – Stair Chair

Dimensions – 11"W x 22"H x 42"D

Location – Forward of head of cot attendant seat

Additional Instructions –

1. This compartment shall have a one fixed painted aluminum roll-out tray with two 42" slides, with 300 lb combined capacity with the left slide being of a locking type. A 1" restraint strap with quick release buckle shall be installed on the tray for a *customer-supplied-and-installed* Stryker stair chair (Section 4.27 related).

COMPARTMENT #C2 – Oxygen Storage

Dimensions – 11"W x 10.5"H x 60"D

Location – Below Compartment #C2

Additional Instructions –

1. A custom cylinder bracket with UHMW slides and one retaining pin shall be installed by BNW in this compartment for a *customer-supplied-and-installed* M-size oxygen cylinder (Section 4.10X related).

COMPARTMENT #C3 – Pediatric Board Storage

Dimensions – 7.5"W x 17"H x 60"D

Location – Forward of Compartments #C1 and C2

Door – None

Additional Instructions –

1. This compartment recess shall provide horizontal transverse storage for one *customer-supplied-and-installed* pediatric board.

2.10

PATIENT COMPARTMENT INTERIOR CABINETS

Shall be formed of 0.090" aluminum and shall be securely mounted to the structural framing. All interior shelves shall be mounted on 1" wide aluminum track.

CABINET #1

Dimensions – 43.25"W x 11.5"H x 9"D

Location – Streetside, above Action Area

Shelving – One adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch.

Lighting – Under-cabinet LED strip light (Section 6.14 related)

Additional Instructions – None

CABINET #2

Dimensions – 30.5"W x 11.5"H x 9"D

Location – Streetside, upper center

Shelving – One adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch.

Lighting – None

Additional Instructions – None

CABINET #3

Dimensions – 30.5"W x 11.5"H x 9"D

Location – Streetside, upper rear

Shelving – One adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch.

Lighting – None

Additional Instructions – None

CABINET #4

Dimensions – 30.5"W x 20.5"H x 5"D at top (8"D at bottom)

Location – Streetside, aft, upper

Shelving – One fixed shelf

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch.

Lighting – None

Additional Instructions –

1. A 120VAC GFCI duplex receptacle shall be installed in this cabinet (Section 6.21X related).

CABINET #5

Dimensions – 30.5"W x 20.5"H x 5"D at top (8"D at bottom)

Location – Streetside, middle upper

Shelving – One fixed shelf

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch.

Lighting – None

Additional Instructions – None

ACTION AREA (#6)

Dimensions – 32.25"W x 21.75"H x 12"D

Location – Streetside

Additional Instructions –

1. The following items shall be installed on the back wall:
 - a. An oxygen outlet (Section 5.11X related)
 - b. Electric oxygen panel with digital pressure display and solenoid/bypass valve (Section 5.11X related)
 - c. Attendant control panel (Section 6.13B related)
 - d. One 120VAC GFCI duplex receptacle (Section 6.21X related)
 - e. One 12VDC receptacle (Section 6.25 related).
 - f. A Samlex EVO-RC inverter remote control panel (Section 6.31 related).
2. A Wilsonart "Northern Melange" 9195MLA speckled gray acrylic full depth solid surface countertop with a 0.5" retaining lip and a 2"H backsplash shall be installed.
3. The suction collector and regulator shall be installed in a 10.25"W x 20.5"H x 4"D recess aft of the action area (Section 5.13A related).

CABINET #7 – Electrical

Dimensions – 27"W x 12"H x 12"D

Location – Streetside, below Action Area

Shelving – None

Door(s) – Removable painted aluminum panel with punched ventilation and two black quarter-turn latches.

Additional Instructions –

1. This cabinet shall house the electrical module (Section 6 related). Door shall have two precision punched panels to aid in ventilation.

CABINET #8

Dimensions – 27"W x 12"H x 12"D

Location – Streetside, forward lower

Shelving – None

Door(s) – Removable painted aluminum panel with punched ventilation and two black quarter-turn latches.

Lighting – None

Additional Instructions –

1. A Samlex 1200-watt inverter with a 12VDC muffin fan with temperature switch shall be installed in this cabinet (Sections 6.31 related).
2. A two-position load center shall be installed with circuit breakers (Section 6.21X related).

CABINET #9

Dimensions – 11.5"W x 10.5"H x 21.25"D

Location – Curbside, upper aft

Shelving – None

Door(s) – None

Lighting – None

Additional Instructions –

1. One 120VAC GFCI duplex receptacle shall be installed on the back wall (Section 6.21X related).
2. A cord access hole shall be provided through the bottom of the cabinet.

CABINET #10

Dimensions – 24"W x 7"H x 7.1875"D

Location – Curbside, upper middle

Shelving – None

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch.

Lighting – None

Additional Instructions –

1. A 12VDC fluid warmer with 4" surround shall be hardwired in this cabinet (Section 6.35 related).

CABINET #11 – Glove Storage

Dimensions – 29.75"W x 7"H x 7.1875"D

Location – Curbside, upper center

Shelving – None

Door(s) – Bottom-hinged painted aluminum with a black quarter-turn latch with three cut-outs

Lighting – None

Additional Instructions –

1. This cabinet shall provide storage for three glove boxes in horizontal orientation (Section 5.32 related).

CURBSIDE ATTENDANT AREA (#12)

Location – Curbside

Additional Instructions –

1. The following shall be installed on the back wall:
 - a. An oxygen outlet (Section 5.11X related)
 - b. Digital thermostat (Section 5.17X related)
 - c. Attendant control panel (Section 6.13B related)
 - d. 120VAC GFCI duplex receptacle (Section 6.21X related)
 - e. 12VDC receptacle (Section 6.25 related)
 - f. One combination USB-A/C port (Section 6.25 related)
 - g. A momentary rocker switch to activate the dome timer shall be installed just aft of the side passage doorway (Section 6.16 related).
2. A Wilsonart "Northern Melange" 9195MLA speckled gray acrylic full depth solid surface countertop without lip or backsplash shall be installed.
3. An EVS 1760 vac-form attendant seat with 3-point black seatbelt and SB186-8C swivel base shall be installed in this area (Section 5.10X related).
4. A full-height painted aluminum access panel shall be installed on the front of the drawer stack.

CABINET #13 – HVAC

Location – Front, upper center

Additional Instructions –

1. This cabinet shall house the combo AC/Heater unit and the suction pump (Section 5.17X and 5.12 related).
2. A fixed head pad shall be installed on the curbside upper corner (Section 5.03X related), with an atomic clock underneath (Section 5.24 related).
3. Conditioned air shall be distributed through a ceiling-mounted horizontal plenum with seven individually-adjustable louvered vents (Section 5.17X related).
4. An exhaust vent shall be installed towards the streetside, with an adjustable louver (Section 5.20 related).
5. An air return shall be provided on the curbside face of the HVAC cabinet (Section 5.19 related).
6. A 60"L yellow powder-coated horizontal grab bar shall be installed on the curbside of the plenum (Section 5.05X related).

CABINET #14 – FORWARD COUNTERTOP

Dimensions – 60"W x 14.5"D

Location – Front, behind head-of-cot attendant seat

Shelving – None

Door(s) – None

Additional Instructions –

1. A Wilsonart "Northern Melange" 9195MLA speckled gray acrylic full depth solid surface countertop with a 0.5" retaining lip shall be installed.
2. One EVS 2169 vac-formed, dove gray, seamless attendant seat with flip-up bottom, folding back, and black backpack belting system shall be pedestal mounted against the forward wall, facing aft, at the head of the cot position. The seat shall include a two-point black seatbelt to be used in conjunction with the backpack belting (Sections 3.08X and 5.10X related).
3. One 18" vertical grab bar shall be installed near the curbside door, on the aft wall of the cabinet (Section 5.06 related).

CABINET #15 – Drug Cabinet

Dimensions – 6.5"W x 4"H x 9"D

Location – Streetside, under Cabinet #11, facing aft

Shelving – None

Door(s) – Bottom-hinged painted aluminum with a Simplex lock

Lighting – None

Additional Instructions –

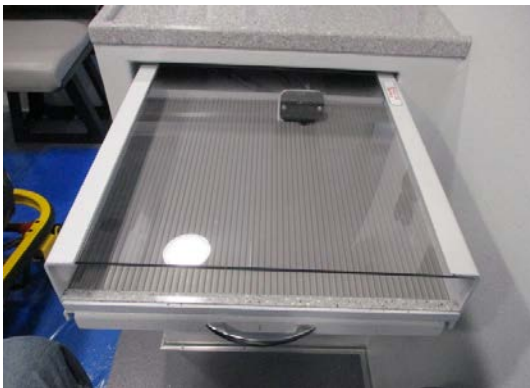
1. This cabinet is intended for storage of drugs (Section 5.36X related).

CABINET #16 – Pull-out writing surface

Location – Curbside half-stack, forward of attendant seat

Additional Instructions –

1. One 14.25"W x 2.5"H x 15"D aft-facing inverted pan-style pull out tray with concealed slides and clear polycarbonate sliding lid shall be installed. The tray shall operate on 14" slides and 300-lb capacity slides and have a gas shock hold open/closed device to ensure the tray does not accidentally open or close during operation of the vehicle. The tray shall have 2.5"H side flanges and 0.625" front and back flanges with a chrome handle on the aft flange. A 0.5" x 0.5" strip of acrylic countertop material shall be placed inboard of the front flange to serve as a wrist rest. A pre-wire shall be capped and coiled (Section 6.18A related).



CABINET #17 – Custom Drawers

Location – Curbside half-stack, forward of attendant seat

Additional Instructions

1. Three 13"W x 5"H x 14"D aluminum drawers with paddle slam latches shall be installed, facing aft. Each drawer shall operate on 12" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be of formed 0.125" aluminum, painted to match the interior. Drawers shall each have machine-stamped divider supports along the front and back sides with two removable ABS dividers provided per drawer.
2. A full-height painted aluminum closeout shall be installed on the forward-facing side of the drawer stack, for service access.

2.13X

CAB TO PATIENT COMPARTMENT PASSAGE

A painted aluminum partition with a 16"W x 12"H pass-thru shall be provided. The side facing the cab shall be carpeted with gray automotive carpeting.

2.15**ELECTROLYSIS PREVENTION**

All external materials and fasteners shall be selected to prevent electrolysis and corrosion due to dissimilar materials and exposure to the elements. Exterior fasteners used for direct connection to painted aluminum surfaces shall be coated with a corrosion inhibitor.

3 COATINGS AND FINISHES

3.03X PAINT TYPE

Shall be Sherwin Williams acrylic urethane on interior patient compartment surfaces, and OEM paint on exterior body.

3.04.01 CHASSIS COLOR

Base color: Chassis shall be OEM Oxford White (YZ)

3.05 LETTERING/DECALS

Streetside

Item #S1 Logo: North Star oval logo
Color: Blue
Size: 4"H Lettering
Material: Vinyl
Location: Side of vehicle, aft

Item #S2

Decal: "EMERGENCY VEHICLES"
Color: Blue
Size: 2.7"
Material: Vinyl
Location: Side of vehicle below item S1

Curbside

Item #C1 Logo: North Star oval logo
Color: Blue
Size: 4"H Lettering
Material: Vinyl
Location: Side of vehicle, aft

Item #C2

Decal: "EMERGENCY VEHICLES"
Color: Blue
Size: 2.7"
Material: Vinyl
Location: Side of vehicle below item C1

3.06 COMPARTMENT FINISH

All interior cabinetry shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748).

All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748).

3.07 INTERIOR CABINETY FINISH

All interior cabinetry shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748).

All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748).

3.08 PATIENT COMPARTMENT UPHOLSTERY

Patient compartment upholstery material shall be Dove Gray Spradling Perform 60 seamless vinyl.

3.09 PATIENT COMPARTMENT FLOORING MATERIAL

Shall be Genome (#TFM2702) Altro Transflor Meta Slip-Retardant Sheet flooring providing durability, ease of maintenance and stain resistance. It shall contain a high concentration of microscopic aluminum oxide particles and colored quartz crystals suspended throughout the thickness with silicon carbide grains in the entire wear surface for slip-retardant performance. It shall have an overall thickness of 0.11" nominal. Flooring shall be manufactured for Wear Resistance to meet ASTM C 501, indentation resistance in accordance with ASTM F 1303 and ASTM F 970, Grade 1 standards, shall meet ASTM D 2047 Slip Retardant, ASTM F 970 Static Load, ASTM E648, CMVSS, FMVSS 302, CAN ULC S102.2 Fire Data Tests over 0.50" solid core, industrial grade plywood capped with 0.125" aluminum. The flooring shall have an overall thickness of 0.080" nominal.

3.10 COMPARTMENT LINING

Compartment floors shall be lined with easy sweep mats which are removable for ease of cleaning.

3.11 CABINET LINING

Interior cabinet shall be lined with easy sweep mats which are removable for ease of cleaning.

3.12 SURFACES AND FINISHES

All Braun NW-installed surfaces and finishes shall be impervious to soap, disinfectants, and water, to permit washing and sanitizing.

4 MODULE EXTERIOR

4.10 EXTERIOR CYLINDER STORAGE

Storage for a *customer-supplied-and-installed* M-size oxygen cylinder shall be provided in Compartment #C2 with a custom cylinder bracket with 1.25" diameter steel retention pin (Section 2.10 related). Three 6-7/8" x 7-3/8" pieces of 12mm backer board shall be shipped loose to serve as shims for shorter cylinders (Section 8.01 related).

4.27 STAIR CHAIR STORAGE

Storage for a *customer-supplied-and-installed* Stryker stair chair shall be provided in Compartment #C1 with a painted aluminum slide-out tray with two 42" slides with 300-lb combined capacity, and a restraint strap. One slide shall be locking to hold the tray in the stowed and extended positions.

5 PATIENT COMPARTMENT INTERIOR

All interior hangers, supports, fasteners, latches, and hinges shall be of a near-flush-type design. The patient compartment shall be free of sharp projections. Exposed edges and corners shall be broken with a radius or protected with 1" high-density foam covered with heavy-duty vinyl color-matched upholstery.

5.01X UPPER WALL COVERING

Shall be painted aluminum, sprayed with textured polyurea thermoplastic elastomer and painted white with light gray splatter (G2-33631 Alt 2 / GLV-51748) (Section 3.07 related).

5.02 HEADLINER

The headliner shall be constructed of 0.090" aluminum which is sanded, etched, washed, primed, and coated with textured polyurea thermoplastic elastomer, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748) to match the interior.

5.03X PATIENT COMPARTMENT HEAD PADS/CUSHIONS

Head pads located over all rear access openings, under Cabinet #1, above the Action Area (#6), on the partition wall, and on the forward and lower edges of the upper curbside cabinets shall be 0.5" or 1" foam covered with heavy-duty seamless vinyl matching upholstery.

5.04 LOWER WALL COVERING

The lower portion of the streetside wall shall be painted aluminum, sprayed with textured polyurea and painted white with gray splatter.

5.05X GRAB RAIL

One 60"L x 1.250" diameter stainless-steel grab rail with three support brackets shall be securely mounted to on the curbside of the horizontal HVAC plenum (Section 5.17X related).

Grab rail shall be powder-coated yellow.

5.06 ACCESS DOOR GRAB RAILS

One 48"L vertical grab bar with slip-resistant inserts shall be installed on the aft side of Compartment #R3 (Section 2.10 related).

One 18"L vertical grab bar shall be installed near the curbside door, located on the aft wall of Compartment #C1.

Grab rail shall be powder-coated yellow.

5.07 IV HANGERS

Two retractable dual IV hangers with stabilizers shall be surface-mounted over the cot, one towards streetside forward and one toward the curbside forward.

5.08C**COT MOUNT**

A Stryker #6390-700-001 floor plate shall be installed by BNW, to position the aft end of the cot 11" forward of the rear doors (Section 8.02 related).

A 20-amp breaker and 10 ga. 12 VDC power and ground prewire shall be installed, running from the electrical cabinet to the frame rail, terminating in a 36" capped and coiled pigtail forward of the rear axle.

No rear rail clamp shall be installed.

5.10X**ATTENDANT SEATS**

One EVS 1760 vac-formed, dove gray, seamless attendant seat with flip-up bottom, a black 3-point belt and a SB186-8SC base shall be installed on the curbside. The seat shall be moved as far aft as possible and still be able to turn 90 degrees.

One EVS 2169 vac-formed, dove gray, seamless attendant seat with flip-up bottom, folding back, and black backpack belting system shall be pedestal mounted against the forward wall, facing aft, at the head of the cot position. The seat shall include a two-point black seatbelt to be used in conjunction with the backpack belting. The EVS CBPED1760/1860 pedestal seat base shall be rotated flat against the partition, and be secured to the floor using all six holes in the seat base.

Reinforcement shall be added beneath the van floor at each attendant seat attachment point (Section 1.02.43 related). A fabricated, painted aluminum booster bracket shall be installed beneath the curbside attendant seat to raise the seat as much as possible while maintaining 43" vertical clearance between the attendant seat base cushion and the upper cabinets. The seat base mounting bolts shall pass through the seat base, booster bracket, van floor, and below-floor reinforcement plates.

5.11X**OXYGEN SYSTEM**

The entire oxygen system to be assembled with certified oxygen hose (1000 PSI burst strength) with brass fittings, pressure tested, and certified. The electric oxygen system shall be controlled through an electric solenoid with manual bypass, have an LED content display, and audible low-pressure alarm. The display shall be installed on the streetside action area wall (#6).

A momentary contact switch labeled "ELECT. 02" shall be installed in each attendant panel to control the on/off function of the electric oxygen system via an InPower module (Section 6.13B related). Pressing the top of the switch shall turn on the electrical oxygen system display and open the solenoid valve. Pressing the bottom of the switch shall turn off the electrical oxygen display and close the solenoid valve.

Three Ohio-type outlets shall be installed:

- One in Action Area #6
- One on the Curbside Attendant Area #12 wall
- One in ceiling over cot

One oxygen tank wrench shall be provided and shipped loose (Section 8.01 related).

5.12**SUCTION PUMP**

The unit shall have an electric pump as the source of suction, installed in cabinet #8 and be vented to the outside of the vehicle under the vehicle body. The pump shall be controlled by an on/off switch labeled "SUCTION" on the attendant panel in Action Area #6.

5.13A**SUCTION COLLECTOR**

A Rico #RS4X-1001B suction regulator and wall-mount bracket with a 1200cc Rico disposable canister shall be installed on the wall of Action Area #6.

5.14**SEATBELTS**

Black DOT-compliant seatbelts shall be installed at each seating position. The forward-facing curbside seat shall have a black three-point emergency locking retractor seatbelt and the streetside head of cot attendant seat shall have a black 2-point emergency locking retractor lap belt and black backpack-style upper automatic locking seatbelts.

5.16X**INSULATION**

The patient compartment sides, ends, roof, and doors shall be insulated to enhance the interior environment and to prevent heat, cold, and external noise from entering the Patient compartment. The insulation shall be a non-settling foam plank material of 0.5", 0.75", or 1.5", thickness depending upon location and available space. Plank insulation shall be polyisocyanurate. Reflectix double reflective insulation shall be applied to the inside of all exterior surfaces where hose or cable access prevents use of plank insulation.

5.17X**PATIENT COMPARTMENT CLIMATE CONTROL SYSTEM**

The patient compartment HVAC system shall incorporate a combination heating/air conditioning unit with 43,300 BTU/hr. heating and 32,000 BTU/hr. cooling capacity. The unit shall have a 580 CFM fan and controls independent of the cab system. A 12VDC booster pump shall be installed to optimize the heating capacity in the patient compartment. A return air path with open area equal to at least twice the blower outlet area shall be incorporated into the evaporator closeout. The patient compartment climate control system shall be controllable by a digital thermostat located on the curbside wall. A formed aluminum horizontal plenum, painted to match the interior with seven adjustable louvers, shall be installed on the ceiling. A Beam #015715 wall port shall be installed in the horizontal plenum, forward to provide direct heat to a patient. A hose shall be shipped loose (Section 8.01 related).

5.18B**EXTERNAL AIR INTAKE**

To supplement heated or cooled air with fresh air, an external air intake shall be provided on the side of the vehicle. The intake shall consist of an opening protected by a chrome Perko vent cover. An upward-directed vent hose shall be connected to the inside of the Perko vent to prevent the collection of moisture. A bug screen shall be installed inside the Perko vent.

5.19**AIR RETURN**

A return air path with an open area equal to at least twice the blower outlet area shall be incorporated into the evaporator closeout.

5.20**EXHAUST VENT**

A motor-powered exhaust vent with a chrome Perko cover shall be installed on the streetside wall, forward. Momentary contact switches labeled "VENT" shall be installed in the streetside and curbside attendant panels to control the on/off function of the exhaust vent. Pressing the top of either switch shall turn on the exhaust vent. Pressing the bottom of either switch shall turn off the exhaust vent (Section 6.13B related).

5.24**CLOCK**

An atomic-controlled clock shall be installed on the aft side of the partition, towards curbside. The clock shall be LCD display and show hours (12/24 selectable), minutes, seconds, date, day, and temperature. Clock shall be powered by two AA alkaline batteries.

5.26X**SHARPS/WASTE CONTAINER**

One 7 qt. waste container and one Sage #85131 5 qt. sharps container with a mailbox lid, both with stainless-steel brackets, shall be installed at customer inspection (Section 8.04 related).

5.31**INTERIOR FIRE SUPPRESSION**

One ABC 5 lb fire extinguisher with an Amerex #861H SAE-J3043 compliant bracket shall be installed at customer inspection (Section 8.04 related).

5.32**GLOVE STORAGE**

Storage for three glove boxes shall be provided in Cabinet #11.

5.36X**MEDICATIONS SAFE**

Cabinet #15 shall provide locking drug storage, with a Simplex lock.

5.40**MEDICATIONS SAFE**

A carbon monoxide detector shall be installed at customer inspection (Section 5.40 related).

6X ELECTRICAL

All added body and chassis electrical equipment shall be served by circuits separate and distinct from the vehicle chassis circuits. All vehicle wiring shall be copper and conform to all SAE J1128 requirements. The wiring shall be colored, numbered, or function coded every 3" for permanent identification and correspond with the vehicle schematics. Solderless, insulated connectors shall be used. Slotted Panduit-style wiring duct shall be used in power component module to ensure air circulation throughout power component wiring. The wiring shall be routed in conduit or looms and wiring shall be secured to the underbody or frame with insulated metal cable straps. All power distribution cabling shall be covered with a protective split loom. Where wiring passes over the exhaust, a heat shield shall be installed. The power component module shall be equipped with positive locking plugs. All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry 125% of the maximum ampere load for which the circuit is protected.

The vehicle electrical system shall be tested and certified to AMD 005 requirements.

6.01 ELECTRICAL LOAD DEVICES

Body electrical wiring shall utilize overload protective devices of the automotive-type circuit breaker. In addition, one single pole, 20-amp circuit breaker shall be provided for future use. The circuit breakers, relays, and other electrical items shall be located in included as part of the enclosed electrical component module located in Cabinet #18.

6.02 VOLTMETER/AMMETER

A single display voltmeter/ammeter shall be installed on the side of the console, driver's side, which simultaneously displays voltage and alternator current when the ignition is on (Section 6.09X related). Display flashes to indicate low voltage.

A buzzer shall indicate low voltage.

6.04C IGNITION CONTROL

Chassis electrical circuits shall be controlled by the ignition switch as provided by the OEM chassis manufacturer. The auxiliary chassis-related functions shall be powered by one InPower #SSC20-100 solid state contactor, triggered by the chassis ignition.

6.05A PATIENT COMPARTMENT POWER

Patient compartment shall be controlled by a driver's console-mounted switch labeled "MODULE DISC." which activates an InPower #SSC42-275 solid state contactor (Section 6.09 related). An ignition interlock shall disconnect module power 15 minutes after the vehicle's ignition is turned off. The interlock shall also allow module power to be reactivated independently for 15-20 minutes by cycling the ignition switch.

6.06 WIRING ACCESS

All cabinets and compartments shall have removable panels as needed to access wiring harnesses and hoses.

6.07 BACK-UP ALARM

An SAE J994-compliant self-adjusting back-up alarm shall be installed.

6.08 SERVICE LOOP

A 6" service loop of wire or harness shall be provided at all electrical components, terminals, and connection points.

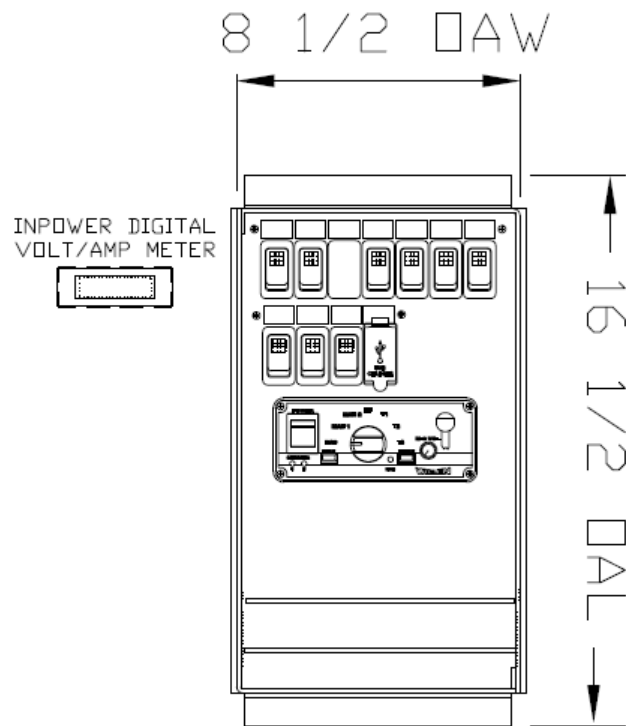
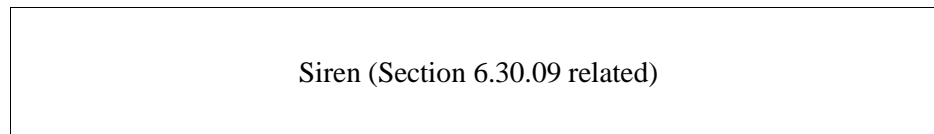
6.09X

CUSTOM DRIVER'S CONSOLE/MAP BOX

A custom driver's console made of black-powder-coated formed aluminum shall be installed between the seats. It shall have a custom switch panel with the following layout, and a map holder with one mill-finished aluminum divider.

1.	2.	3.	4.	5.	6.	7.
Module Disc.	Emerg. Master	Spare	Left Scene	Right Scene	Rear Scene	Dome (Hi/Lo/Off)

8.	9.	10.	11.
Spare	Spare	Spare	USB A/C



**CONSOLE
PROPOSAL
DRAWING**

Additional Items:

A prewire shall be installed for future *customer-supplied-and-installed* radio equipment (Section 6.18A related).

6.10 SWITCHES

Switches installed in the driver's console and attendant panels shall be rocker-type and permanently marked by function.

6.13B ATTENDANT CONTROL PANELS

A six-switch attendant control panel shall be located on the streetside Action Area #6 wall with the following switch layout:

1.	2	3.	4.	5.	6.
Dome (Hi/Lo/Off)	Vent	Elect. O ₂	Attendant Light	Suction	USB A/C

A six-switch attendant control panel shall be located on the curbside wall in the Curbside Attendant Area (#12) with the following switch layout:

1.	2	3.	4.	5.	6.
Dome (Hi/Lo/Off)	Vent	Elect. O ₂	Attendant Light	Blank	Spare

A digital thermostat shall be located adjacent to the attendant control panel (Section 5.17X related).

6.14 CABINET LIGHTING

The wall area below Cabinets #1, #10, and 11 shall be lighted utilizing under-cabinet LED strip lighting. The streetside and curbside under-cabinet lighting shall be controlled by two momentary-contact on/off switches labeled "ATTENDANT LIGHT", one in each attendant panel, which control all attendant lights (Section 6.13B related). Pressing the top of either switch shall turn on the lights, pressing the bottom of either switch shall turn off the lights.

6.16 PATIENT COMPARTMENT INTERIOR LIGHTING

Shall be designed to keep vehicle height to a minimum without interfering with the structural integrity of the roof. Patient interior compartment lighting shall consist of six dual intensity Whelen #80C0EHCR LED recessed lights - one bank of three lights shall be positioned toward streetside and three lights toward curbside.

Dome light switches shall be momentary contact HI-LO-OFF switches labeled "DOME". Pressing the top of either switch shall increase intensity. Pressing the bottom of either switch shall decrease intensity. A single switch labeled "DOME" shall be provided on the driver's console to control both banks of dome lights (Section 6.09X related).

The curbside bank of lights shall be automatically activated when the rear or side doors are opened or by a momentary rocker switch labeled "DOME TIMER" mounted on the wall near the curbside passage door, which shall activate a battery hot timer. Pressing the switch once shall initiate 15-minute timed operation of the lights. Pressing the switch again shall cancel the timed operation.

6.18A COMMUNICATIONS EQUIPMENT

The customer shall be responsible for powering up and tuning of any radio equipment.

Item #1

Description: Prewire, including 10 ga. power and 10 ga. ground, for future *customer-supplied-and-installed* equipment.

Location: From electrical panel to driver's console (Section 6.09X related).

Additional Instructions: Prewiring to be capped and labeled at both locations. Wiring shall be installed at the power component module behind the Panduit cover.

Item #2

Description: Prewire, including 12 ga. power and 12 ga. ground, for future *customer-supplied-and-installed* equipment.

Location: From electrical panel to closeout on forward side of Cabinet #16.

Additional Instructions: Prewiring to be capped and labeled at both locations. Wiring shall be installed at the power component module behind the Panduit cover.

6.19 ANTENNA MOUNTS AND CABLES

Two NMO universal antenna mount with KHFD cable and Larsen HyPer master universal connector and mini-UHF adapter shall be installed on the vehicle. Antenna base access shall be through a dome light opening, and the cables shall terminate, one in Cabinet #8 and one in the driver's console (Section 6.09X related).

6.21X 120VAC/SHORELINE CIRCUIT BOX

Utility power shall be furnished from 120VAC shorepower via a Kussmaul 20-amp Super Auto-Eject amp plug with a white cover on a stainless-steel plate with a green indicator light and **contoured gasket** located on the driver's side of vehicle.

Circuit breakers shall be installed in Cabinet #8 for overcurrent protection and circuit isolation. The cord end for the shoreline shall be shipped loose (Section 8.01 related).

All exposed receptacles shall be ground fault circuit interrupting (GFCI) and shall have a power on indicating light.

Five interior 120VAC GFCI duplex receptacle shall be mounted:

- One in Cabinet #4
- One in Action Area #6
- One in Cabinet #9
- One in Curbside Attendant Area #12
- One in Compartment #R3

6.23 BATTERY CHARGER

A 60-amp battery charger shall be provided as part of the Samlex 1200 inverter system (Section 6.31 related).

6.25

12VDC POWER SUPPLY

Two 12VDC, 15-amp lighter-style power point receptacles shall be provided;

- One in Action Area #6
- One in Curbside Attendant Area (#12)

A Kussmaul combination USB-A/USB-C switch-insert-style charging ports shall be installed:

- One in Action Area #6
- One in the driver's console (Section 6.09X related)
- One in Curbside Attendant Area (#12), forward of the 120VAC receptacle.

All 12 VDC power point receptacles, USB charge ports, 12 VDC charging circuits, electric air compressors, powered cots, and cool cabinets, if present, shall be powered from a 12 VDC auxiliary bus. An InPower LVD20-100-SPC540 low voltage disconnect switch shall deliver power to the auxiliary bus only when the supply voltage to the vehicle batteries is at or above 13.0 VDC.

6.30X EMERGENCY WARNING SYSTEMS

All emergency lighting shall be controlled by the "EMERG. MASTER" switch on the driver's console (Section 6.09 related). When the switch is on, module power is on, and the vehicle is not in park, all emergency lighting shall be activated, and the hands-free function of the siren shall be enabled. The white lights shall be disabled when the vehicle is shifted into park.

6.30.01X FRONT LIGHTBAR

Shall be a white Whelen #M6PTM5F lightbar housing, with eight Whelen M6 flashers with chrome flanges, pattern curbside to streetside as follows:

Location	Lens Color	Model	Light Color	Type	Light	Flash Pattern	Additional
Curbside	Clear	M6RC	Red	LED	Flasher	A/F 150	
	Clear	M6C	Clear	LED	Flasher	A/F 150	
	Clear	M6RC	Red	LED	Flasher	A/F 150	
	Clear	M6C	Clear	LED	Flasher	A/F 150	
Center							
	Clear	M6RC	Red	LED	Flasher	A/F 150	
Streetside	Clear	M6C	Clear	LED	Flasher	A/F 150	
	Clear	M6RC	Red	LED	Flasher	A/F 150	
	Clear	M6C	Clear	LED	Flasher	A/F 150	

The flashers shall be controlled by the "EMERG. MASTER" switch the driver's console (Section 6.09X related). The forward-facing white lights shall be disabled when the vehicle is shifted into park.

6.30.02X REAR FLASHERS

Shall be installed in a white Whelen 700 Series Bar #7PT8R; light, pattern curbside to streetside as follows:

- Curbside
 - Whelen 700 Series #70C02FRR Clear lens red flasher with chrome housing
 - Whelen 700 Series #7SC0ENZR LED Scenelight (Section 6.30.04 related)
 - Whelen 700 Series #70C02FAR Clear lens amber flasher with chrome housing
- Center
 - OEM Brake Light
 - Whelen 700 Series #70C02FAR Clear lens amber flasher with chrome housing
 - Whelen #7SC0ENZR LED Scenelight (Section 6.30.04 related)
- Streetside
 - Whelen 700 Series #70C02FRR Clear lens red flasher with chrome housing

The flashers shall be controlled by the "EMERG. MASTER" switch the driver's console (Section 6.09X related). The upper red flashers shall be disabled when the vehicle is shifted into park.

6.30.03X FLASHERS

Four Whelen #M9V2RC Clear Lens Red Split Flasher/Scene Super-LED lights with chrome flanges shall be mounted, two each on the curbside and streetside of the vehicle in upper corners. The forward lights shall be installed on a Whelen #M9HTM5FC bezel and the rear lights shall be installed on a Whelen M9HTM5RC position the light correctly. Lights shall be controlled by the "EMERG. MASTER" switch on the driver's console (Section 6.09 related). The upper flashers shall be disabled when the vehicle is shifted into park.

Two Whelen ION T-Series #TLIA Clear Lens Amber flashers with #TIONFC chrome flanges shall be installed vertically on the rear of the vehicle, one on each side of the rear passage doors. The flashers shall be controlled by "EMERG. MASTER" switch on the driver's console (Section 6.09X related).

6.30.04X SCENELIGHTS

The scene lights are part of the M9V2RC lights as noted in 6.30.03X.

Two Whelen 700 Series #7SC0ENZR scenelights with chrome flanges shall be installed above the rear passage doors.

The curbside passage door shall activate the curbside scenelights; the rear scenelights shall be activated by the rear passage doors or when the vehicle is placed in reverse. The scenelights shall also be controlled by the respective switches on the driver's console (Section 6.09X related).

6.30.06X INTERSECTION LIGHTS

Four Whelen ION T-Series #TLIR Clear Lens Red flashers with #TIONFC chrome flanges shall be installed, one on each cab fender and one above each vehicle wheel well. Lights shall be controlled by the "EMERG. MASTER" switch on the driver's console (Section 6.09X related).

6.30.08X GRILLE LIGHTS

Two Whelen ION-T Series LED flashers with #TIONFC chrome housings and two Whelen TIONBKT1 brackets shall be installed on the OEM grille, brackets to aim the flashers directly forward:

Curbside	Streetside
#TLIR Clear Lens Red	#TLIC Clear Lens Clear

Lights shall be controlled by the "EMERG. MASTER" switch on the driver's console (Section 6.09X related).

A pre-wire shall be provided from the electrical panel to the grille area for future use of White Lights as wig wags.

A pre-wire shall be provided from the electrical panel to the grille area for future use of a grille light as steady red.

6.30.09 SIREN

A Whelen 295SLSA1, 200-watt siren shall be installed in the driver's console (Section 6.09X related). Standard features shall include Radio Rebroadcast, Public Address, Manual, Wail, Yelp, Air horn, and Piercer tones. The siren's hands-free function shall operate through the OEM horn ring circuit when the sirens rotary selector is in the HF position and the "EMERG. MASTER" switch is on.

6.30.10 SIREN SPEAKERS

Two Whelen #SAE315P 100-watt speakers with mounting brackets shall be installed in the OEM bumper cutout.

6.31**INVERTER**

A Samlex 1200-watt pure sine wave inverter with a 60-amp battery charger shall be installed in Cabinet #8, with a 12VDC muffin fan and temperature switch (Section 6.21X related). An EVO-RC inverter remote control panel shall be installed in Action Area #6. The inverter shall be configured to turn on and off with ignition.

6.35X**FLUID WARMER**

An Ultra Heat, Inc. IVW-718AX 12VDC 7" x 18" 12VDC IV warmer shall be hardwired in Cabinet #10 and connected to the 12VDC aux bus. The warmer shall be thermostatically controlled at 95 to 105 degrees F. Space for 10 one-liter bags of fluids shall be provided with a 4" surround to contain the fluid bags.

7

SUPPORTING DOCUMENTATION

7.01A

OWNERS MANUAL

Shall be provided with the vehicle and shall include the following items:

1. Braun Northwest Contact Information
1. Warranties
2. Service and Operations Manual
3. Electrical Drawings
4. Parts list
5. Specifications and Drawings
6. Certifications
 - a. NFPA Statement of Exceptions
 - b. Weight Analysis Document
 - c. AMD 005 Low Voltage Electrical System Test
 - d. AMD 010 Water Leak Test
 - e. AMD 015 Ambulance Main Medical Gas System Test
 - f. AMD 021 Aspirator System Test
 - g. AMD 025 Occupant Head Clearance Zones Test
 - h. AMD 027 Line Voltage Electrical Systems Test
 - i. Optical warning system certification of compliance
 - j. Siren manufacturer's certification of compliance
7. Product Manuals
8. Second OEM chassis key

7.03

LABELS

The following labels shall be provided:

Label Description	Location
Braun Northwest Paint Label	Inside of the electrical cabinet door
FMVSS Certification Label	Adjacent to the chassis OEM stickers, typically on the B pillar (or inside of the electrical cabinet door if there is not room on the B pillar)
Tire and Loading Information Label (for under 10k GVWR only)	
Overall Height and GVWR	Visible to the driver while seated
Medical Gas Test Certification	Near the medical gas cylinder
Shorepower Inlet Rating	Near the shorepower inlet
Line Voltage Receptacle Rating	At each receptacle

8 MISCELLANEOUS MEDICAL/RESCUE EQUIPMENT

8.01 LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

1. Touch Up Paint, one bottle each:
 - A. White #G2-33631 Alt 2 (interior)
 - B. Light Gray (#GLV-51748).
2. One 20-amp plug cord end for shoreline
3. Oxygen tank wrench
4. 12.5 ft hypothermic hose
5. Three 6-7/8" x 7-3/8" pieces of 12mm backer board to serve as shims for short M-size oxygen cylinders

8.04 EQUIPMENT INSTALLED AT CUSTOMER INSPECTION

1. One 7 qt. waste container
2. One 2 qt sharps container
3. Two stainless-steel brackets sharps/waste brackets
4. One carbon monoxide detector
5. One 5 lb ABC fire extinguisher with SAE J3043 compliant bracket

* * * * *