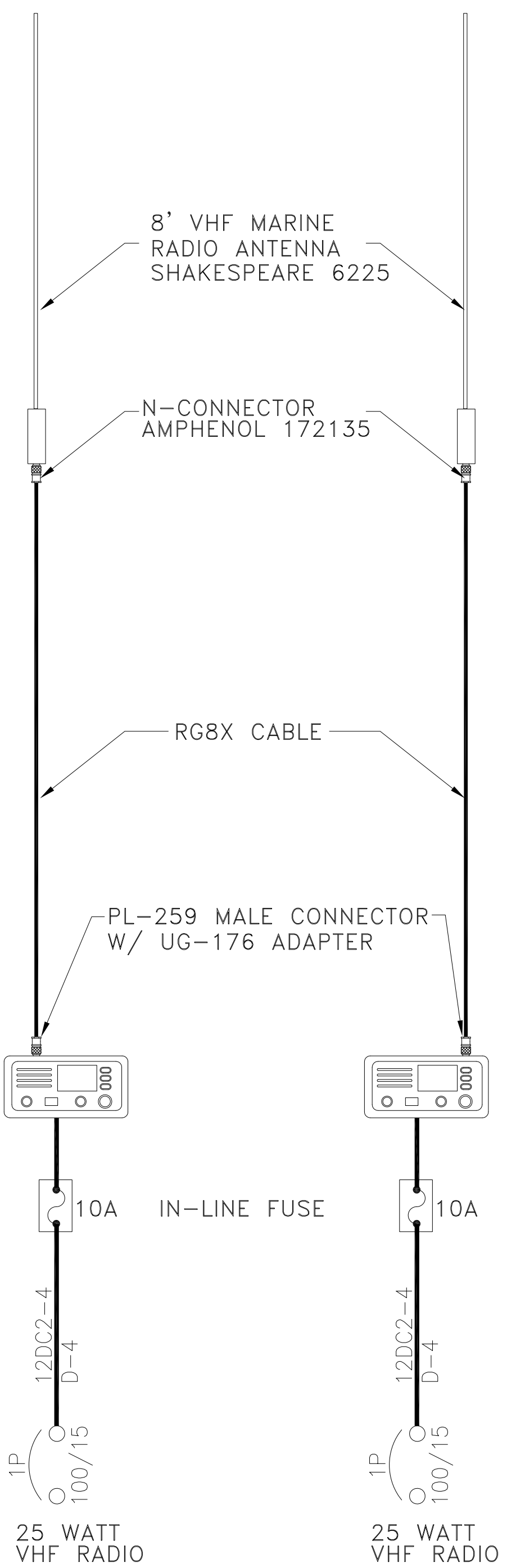
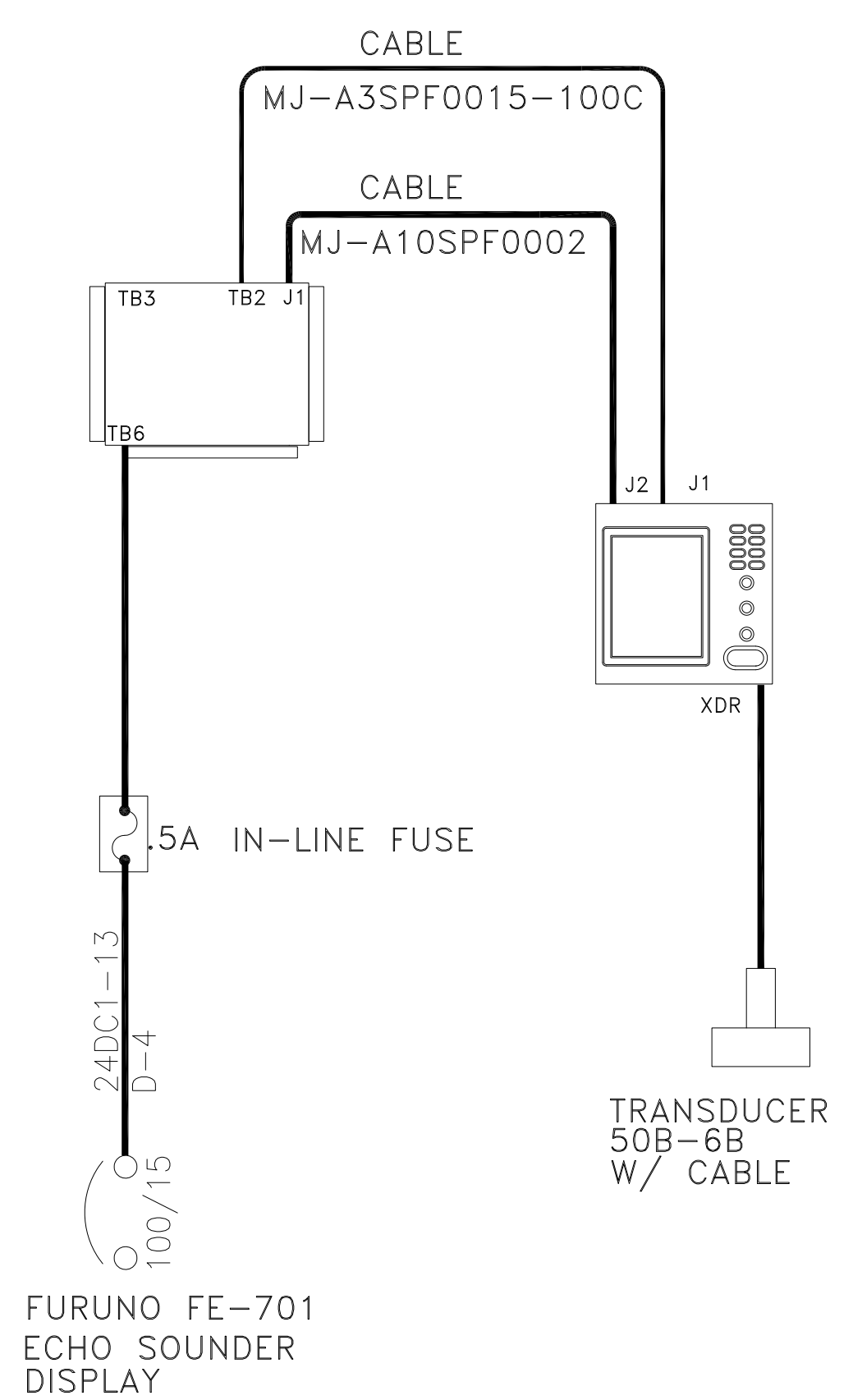
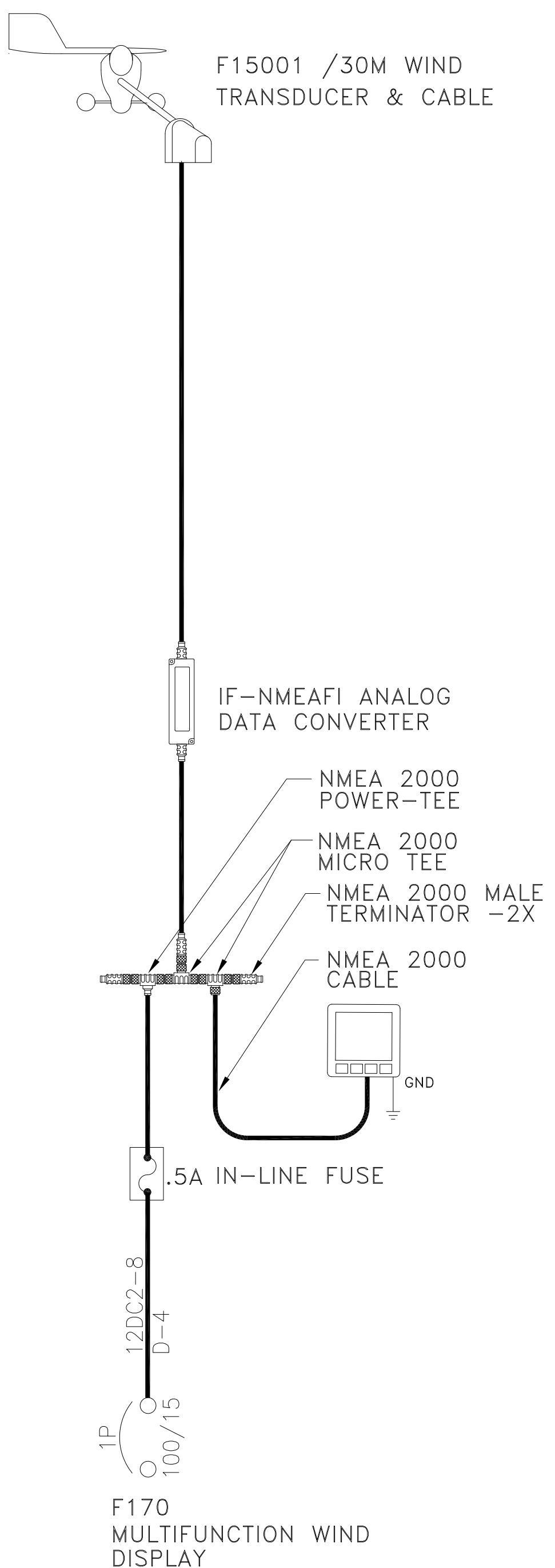


MATERIAL SCHEDULE				
SYMBOL	ITEM	QTY	DESCRIPTION	MFG
	1	1	CIRCUIT BREAKER X - POLES Y - FRAME SIZE Z - TRIP RATING	-
	2	1	WIND SPEED/DIRECTION TRANSDUCER & CABLE	FURUNO F15001
	3	1	ANALOG DATA CONVERTER	FURUNO IF-NMEAFI
	4	1	COLOR DISPLAY	FURUNO FI-70
	5	1	NMEA 2000 POWER TEE	-
	6	2	NMEA 2000 MICRO TEE	-
	6	2	NMEA 2000 TERMINATOR RESISTOR	-
	7	AR	IN-LINE FUSE	-
	12	1	ECHO SOUNDER DISPLAY	FURUNO FE-701
	13	1	TRANSDUCER W/ CABLE	FURUNO 50B-6B
	14	1	ECHO SOUNDER DISTRIBUTION BOX	FURUNO FE-702
	15	1	25 WATT VHF RADIO	-
-	16	AR	NMEA 2000 CABLE	-
-	17	AR	NMEA 0183 CABLE	-
-	18	1	SOUNDER POWER CABLE	MJ-A3SPF0015-100C
-	19	2	SOUNDER SIGNAL CABLE	MJ-A10SPF0002
-	20	2	8' VHF MARINE RADIO ANTENNA	SHAKESPEARE 6225
-	21	AR	RG8X CABLE	-
-	22	2	N-CONNECTOR	AMPHENOL 172135
-	23	2	PL-259 MALE CONNECTOR W/ UG-176 ADAPTER	-



- GENERAL NOTES -	
NO.	DESCRIPTION
1	MATERIAL AND WORKMANSHIP SHALL CONFORM TO U.S. COAST GUARD REQUIREMENTS FOR SUBCHAPTER "M" VESSELS AND AMERICAN BUREAU OF SHIPPING RULES FOR BUILDING AND CLASSING STEEL VESSELS UNDER 90M.
2	ALL PERMANENTLY INSTALLED ELECTRICAL EQUIPMENT SHALL HAVE METAL ENCLOSURES PROPERLY GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, UNLESS NOTED OTHERWISE.
3	ALL POWER CABLE SHALL COMPLY WITH THE REQUIREMENTS OF IEEE 1580. ALL CABLE SHALL BE LOW SMOKE, ZERO HALOGEN TYPE, TRICAB OR EQUAL.
4	NYLON OR BRASS STUFFING TUBES SHALL BE USED WHEN PENETRATING ELECTRICAL ENCLOSURES OR JUNCTION BOXES.
5	RESIZE CABLE FOR LENGTH OF RUN OF DC CIRCUITS IF APPLICABLE.
6	ALL CABLES SHALL BE RATED AT 90°C CONDUCTOR TEMPERATURE IN ACCORDANCE WITH IEEE STANDARD NO. 45 2002 TABLE 25.
7	EACH CABLE SHALL BE TAGGED WITH ITS UNIQUE CIRCUIT DESIGNATION USING EMBOSSED ALUMINUM TAGS ON EACH SIDE OF PENETRATIONS AND INTO CONNECTION BOXES AND/OR EQUIPMENT.
8	METAL USED FOR TERMINAL STUDS, LUGS, NUTS, AND WASHERS SHALL BE CORROSION RESISTANT AND GALVANICALLY COMPATIBLE WITH THE WIRE AND TERMINAL LUGS.
9	WIRES TERMINATING IN EQUIPMENT SHALL BE ARRANGED TO PROVIDE A SURPLUS LENGTH OF WIRE SUFFICIENT TO ALLOW FOR DISCONNECTION, AND TO PERMIT MULTIPLE WIRES TO BE FORMED AT TERMINAL STUDS.
10	CABLE PENETRATIONS OF STRUCTURAL FIRE PROTECTION SHALL UTILIZE FIRE STOPS WHICH MAINTAIN THE FIRE PROTECTION LEVEL (GRADE A, B, ETC.) ASSOCIATED WITH THE FIRE ZONE PENETRATED.
11	CABLE PENETRATIONS THROUGH BULKHEADS AND DECKS, BOTH WATERTIGHT AND NON-WATERTIGHT, SHALL COMPLY WITH REGULATORY BODY REQUIREMENTS. MULTI-CABLE TRANSIT TYPE PENETRATIONS MAY BE SUBSTITUTED FOR STUFFING TUBES FOR ALL PENETRATIONS EXCEPT THROUGH OPEN DECKS. EXTRA HEAVY, LOW ALLOY KICK PIPES WITH STUFFING TUBES, OR EQUIVALENT, SHALL BE WELDED INTO ALL OPEN DECKS AND SHALL BE NINE INCHES HIGH TO TOP OF THE STUFFING TUBE. BUILT-IN WATERTIGHT BOXES MAY BE USED IN LIEU OF KICK PIPES. POURED SEALERS SHALL NOT BE ALLOWED.

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Title: 25.5'x16'x6.5' NCDOT PUSHBOAT

**ELECTRONIC WIRING DIAGRAM**

Dwg. No. 1393B-423 Alt. No. 0  
Sh. 1 of 1

Drawn By: JACOB CONNALLY Date: JANUARY 2, 2019  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
App'd By: \_\_\_\_\_ Scale: NTS  
ABS App'l: \_\_\_\_\_ USCG App'l: \_\_\_\_\_

