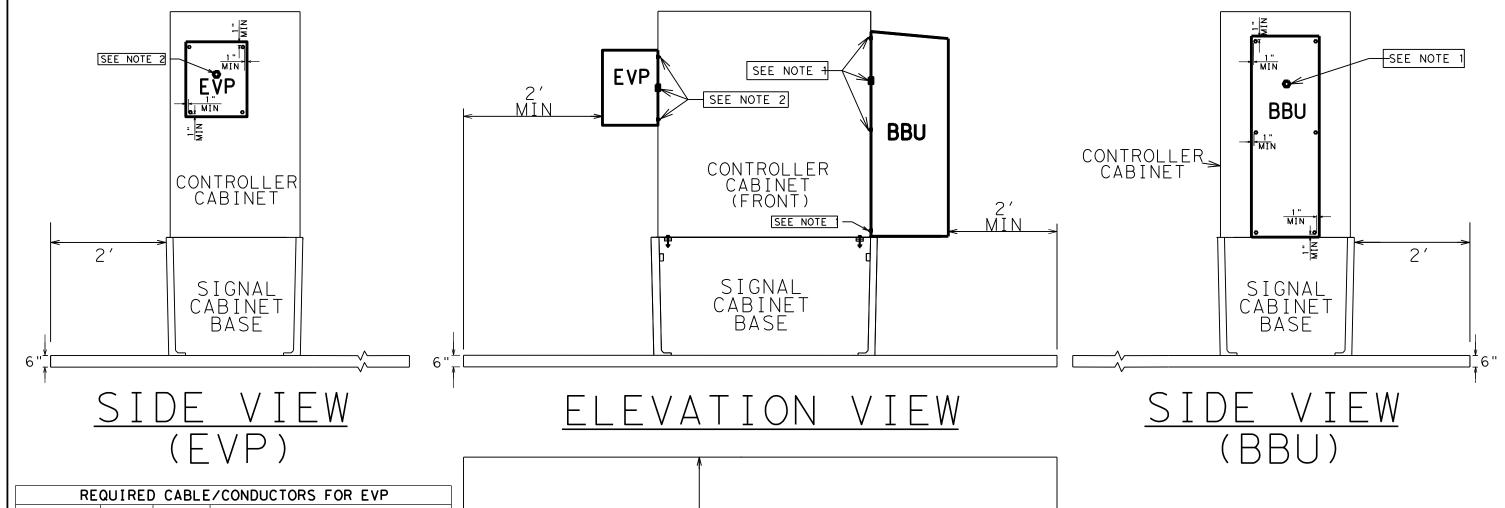
NOTES:

- 1. INSTALL $1\frac{1}{2}$ " ALL THREAD NIPPLE WITH BONDING BUSHINGS ON BOTH ENDS AND 6 EA OF $\frac{1}{2}$ " X $1\frac{1}{2}$ " 13 UNC MOUNTING BOLTS BETWEEN THE TWO CABINETS (SIGNAL AND BBU).
- 2. INSTALL 2 " FITTING FOR EVP CABLES/WIRES AND 4 EA OF $\frac{1}{2}$ " X $\frac{1}{2}$ " 13 UNC MOUNTING BOLTS BETWEEN THE TWO CABINETS (SIGNAL AND EVP).
- 3. USE SILICON SEALANT TO SEAL BETWEEN THE CABINETS OF THE CONTROLLER, EVP AND BBU UNIT.
- 4. THE ABOVE WORK PERFORMED AND MATERIALS FURNISHED WILL NOT BE PAID FOR DIRECTLY. BUT WILL BE SUBSIDIARY TO PERTINENT ITEMS.



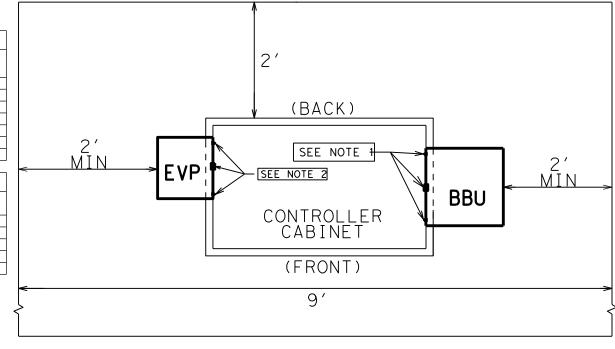
QUANTITY EACH WIRE SIZE COLOR FUNCTION

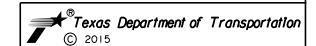
#14 BLACK 120 VAC FOR EVP
#14 RED 120 VAC FOR FAN & CABINET LIGHT
#14 WHITE AC NEUTRAL
#14 GREEN CHASIS GROUND
#18 GRAY LOGIC GROUND
#18 BLUE PREEMPT COMMANDS
- - CABLE FROM DETECTOR UNIT

REQUIRED CONDUCTORS FOR BBU					
QUANTITY EACH	WIRE SIZE	COLOR	FUNCTION		
1	-	BLACK	120 VAC FROM SERVICE		
1	_	WHITE	AC NEUTRAL FROM SERVICE		
1	#6	BLACK	120 VAC TO CONTROLLER		
1	#6	WHITE	AC NEUTRAL TO CONTROLLER		
1	#6	GREEN	GROUND		

LEGEND:

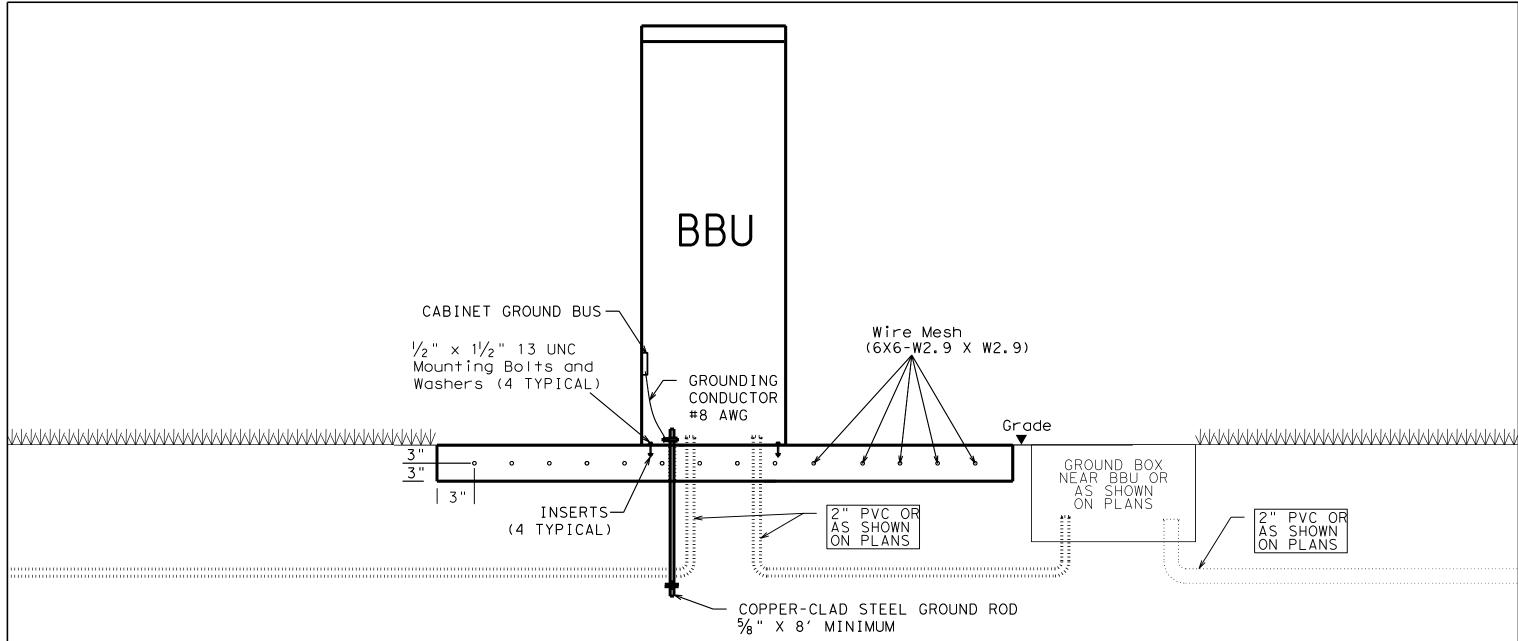
EVP-EMERGENCY VEHICLE PREEMPTION CABINET. BBU-BATTERY BACKUP UNIT.





INSTALLATION OF BBU/EVP EXTERNAL SIDE MOUNT CABINET INSTALLATION DETAILS DALLAS DISTRICT STANDARD

N. T. S.		SHEET	1 OF 3
FED. RD. DIV. NO.	FEDERA	HIGHWAY NO.	
6	(SEE	TITLE SHEET)	FM 5
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	DAL	COLLIN	
CONTROL	SECTION	JOB	29
1392	01	044	



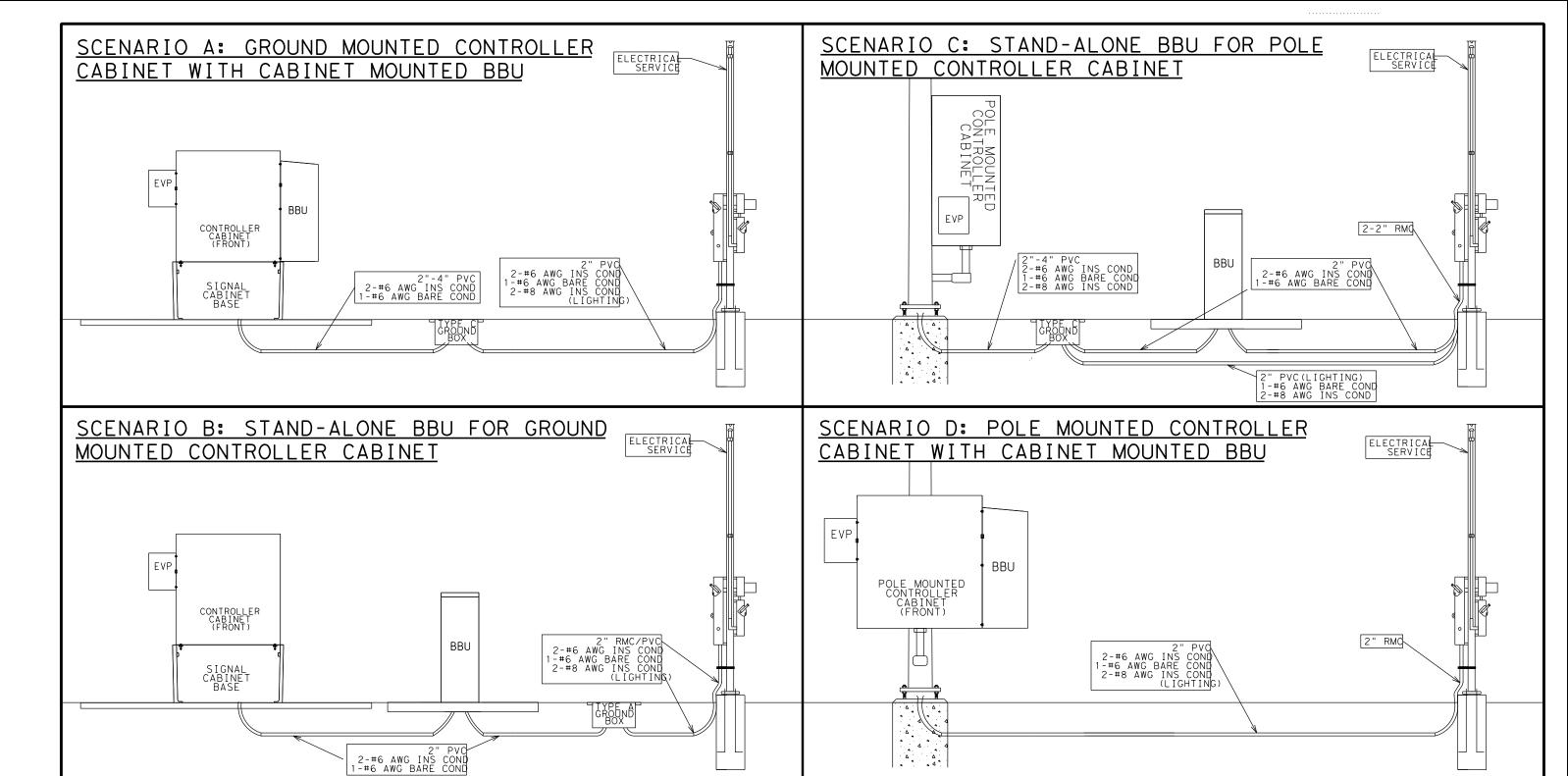
NOTES:

- 1. INSTALL A 5' X 5' CONCRETE PAD AT THE LOCATION DIRECTED BY THE ENGINEER. THE PAD MAY BE CAST-IN-PLACE OR PRE-CAST AS APPROVED BY THE ENGINEER.
- 2. PROVIDE WELDED WIRE MESH 6X6-W2.9 X W2.9 FOR REINFORCEMENT. PROVIDE JOINTS AND SPLICES IN THE MESH WITH A MINIMUM 6-INCH OVERLAP. PROVIDE A MINIMUM 3 INCH COVER BETWEEN WIRE MESH AND EDGE OF CONCRETE PAD.
- 3. PROVIDE CLASS B CONCRETE MINIMUM FOR THE CONCRETE PAD IN ACCORDANCE WITH ITEM 421. CONSTRUCT THE CONCRETE PAD IN ACCORDANCE WITH ITEM 531, EXCEPT FOR PAYMENT.
- 4. INSTALL THE BACK OF BBU CABINET 10" FROM THE EDGE OF CONCRETE PAD AND CENTER THE CABINET ON THE PAD FROM SIDE TO SIDE.
- 5. SUPPLY FOUR $\frac{1}{2}$ " X $\frac{1}{2}$ " 13 UNC STAINLESS STEEL INSERTS FOR ATTACHMENT OF THE BBU CABINET TO THE CONCRETE PAD. INSERTS MUST WITHSTAND A MINIMUM TORQUE OF 50 FT-LB AND A MINIMUM STRAIGHT PULL OUT STRENGTH OF 750 LBS.
- 6. BOND A #8 AWG COPPER GROUND WIRE AND AN 8 FT GROUND ROD TO THE REINFORCING MESH WITH A SUITABLE UL LISTED CLAMP, AND TERMINATE THE GROUND WIRE TO THE CABINET GROUNDING BUS.
- 7. INSTALL A PVC SLEEVE TO PREVENT THE GROUND ROD FROM DIRECT EMBEDMENT IN THE CONCRETE PAD.
- 8. THE ABOVE WORK PERFORMED AND MATERIALS FURNISHED WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO PERTINENT ITEMS.

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INSTALLATION OF BBU/EVP STAND ALONE BBU CABINET (GROUND MOUNT) DALLAS DISTRICT STANDARD

N. T. S.		SHEET	2 OF 3
FED.RD. DIV.NO.	FEDERA	HIGHWAY NO.	
6	(SEE	TITLE SHEET)	FM 5
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	DALLAS	COLLIN	
CONTROL	SECTION	JOB	
0092	02	118, ETC.	



NOTE:

ABOVE SCENARIOS ARE TYPICAL BBU/EVP INSTALLATIONS USED IN THE DALLAS DISTRICT. SEE TRAFFIC SIGNAL DESIGN PLANS FOR GROUND BOX, CONDUIT AND CONDUCTOR QUANTITIES AND SIZES SPECIFIC TO EACH INTERSECTION.



INSTALLATION OF BBU/EVP INSTALLATION SCENARIOS DALLAS DISTRICT STANDARD

N. T. S.		SHEET	3 OF 3
FED. RD. DIV. NO.	FEDERA	HIGHWAY NO.	
6	(SEE	TITLE SHEET)	
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	18	COLLIN	
CONTROL	SECTION	JOB	