

#6 AWG BARE COPPER CONDUCTOR, 6' COILED ABOVE GROUND FOR BONDING TO FUTURE TARGET

ISOMETRIC ELEVATION STATIONARY INFANTRY TARGET

NOT TO SCALE

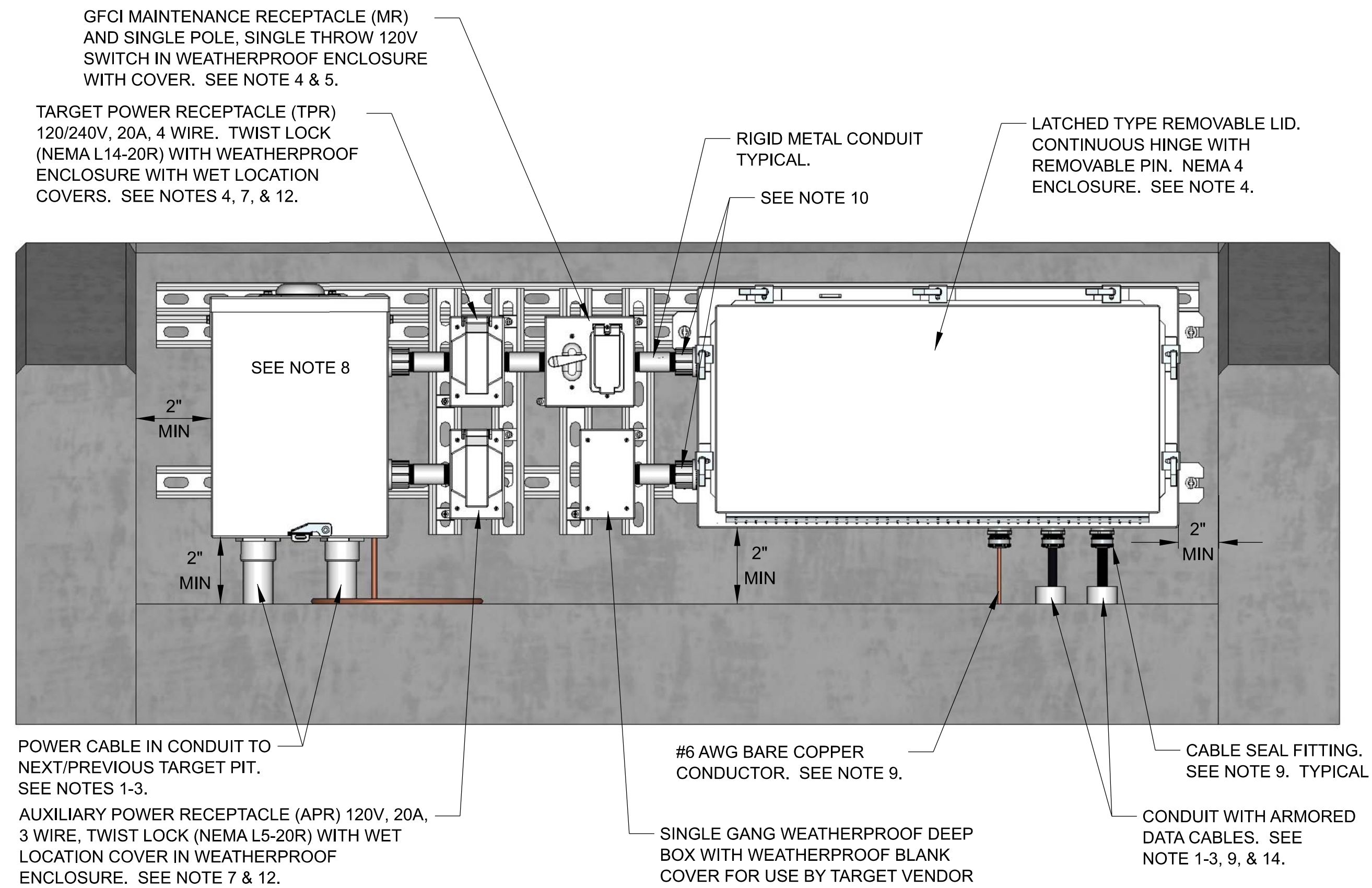
NOTES:

- CONDUIT TO EXTEND 5 FEET BEYOND EMPLACEMENT.
- CABLES/CONDUITS ARE ROUTED FROM SIDE OF BERM TO PREVENT CABLE DAMAGE DURING MAINTENANCE OF BERM.
- ROUTE UNDER SLAB. POWER AND DATA INSTALLED IN SAME TRENCH.
- EQUIPMENT SHALL NOT BE MOUNTED HIGHER THAN 2" FROM TOP OF EMPLACEMENT WALL.
- POWER TO POWER TERMINAL BLOCKS IN MTPD SHALL BE ROUTED THROUGH SINGLE POLE SINGLE THROW SWITCH.
- ALL EQUIPMENT SHALL BE MOUNTED ON 1.625" DEEP UNISTRUT. NO EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED DIRECTLY TO CONCRETE WALL.
- TPR, APR AND PTB SHALL NOT BE GFCI PROTECTED.
- PERMANENTLY LABEL THE EMPLACEMENT ACCORDING TO THE CIVIL AND ELECTRICAL DESIGNATIONS.
- PROVIDE SEAL FITTINGS AS SHOWN IN CABLE SEAL FITTING DETAIL ON SHEET ED-11 FOR ALL CABLE ENTRANCES INTO NEMA 4, 4X, OR 6P RATED ENCLOSURES.
- INSTALL MYERS TYPE HUBS ON ALL CONDUIT PENETRATIONS TO SIDE OF ENCLOSURE.
- ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.
- PROVIDE TARGET AND AUXILIARY OUTLETS WITH NEMA 3R WET LOCATION COVERS MAKING OUTLETS SUITABLE FOR USE IN WET LOCATIONS. SEE DETAIL SHEET ED-11 FOR WET LOCATION COVER. IN USE COVERS WITH COVERS INTENDED TO CLOSE OVER THE INSERTED CORD ARE NOT ACCEPTABLE AS THESE COVERS WILL NOT CLOSE OVER TARGET OR AUXILIARY CORDS.
- DEVIATIONS TO THE EQUIPMENT SIZES, EQUIPMENT NUMBERS, RECEPTACLE COVERS, OR CABLE ENTRY METHODS INTO ENCLOSURES WILL REQUIRE RANGE TRAINING AND LAND PROGRAM HUNTSVILLE CENTER MANDATORY CENTER OF EXPERTISE APPROVAL.
- CONDUIT STUBBED UP AS CLOSE TO CABLE SEAL FITTING AS POSSIBLE.
- SEE SHEET ED-07 FOR ADDITIONAL INFORMATION ON TARGET DATA PANELS. SEE SHEET ED-06 FOR ADDITIONAL INFORMATION ON MASTER TARGET DATA PANELS.
- PROVIDE GROUNDING IN ACCORDANCE WITH EMPLACEMENT GROUNDING DETAIL ON SHEET ED-11.

PANEL BOARD: PB-xx		LOCATION: SIT		MOUNTED: SURFACE		FEED: BOTTOM	
125 AMP MAIN		MAIN LUGS ONLY		ASYM A.I.C MIN: 10,000			
VOLTAGE: 240/120		PHASE: 1		WIRE: 3		RATING: NEMA 3R	
		VA/ PHASE		VA/ PHASE			
LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	A	B	CKT NO.	CKT NO.
SURGE ARRESTOR	2	----	---	---	---	1	2
SUB FEED THRU LUGS	2	----	---	---	---	5	6
							8
				0	0		
				530	480		
TOTAL VA PHASE A: 530				TOTAL CONNECTED WATTAGE: 1,010			
TOTAL VA PHASE B: 480				95% DEMAND WATTAGE: 960			
SUPPLIED FROM: TRSF-XX				TOTAL DEMAND AMPS: 4			

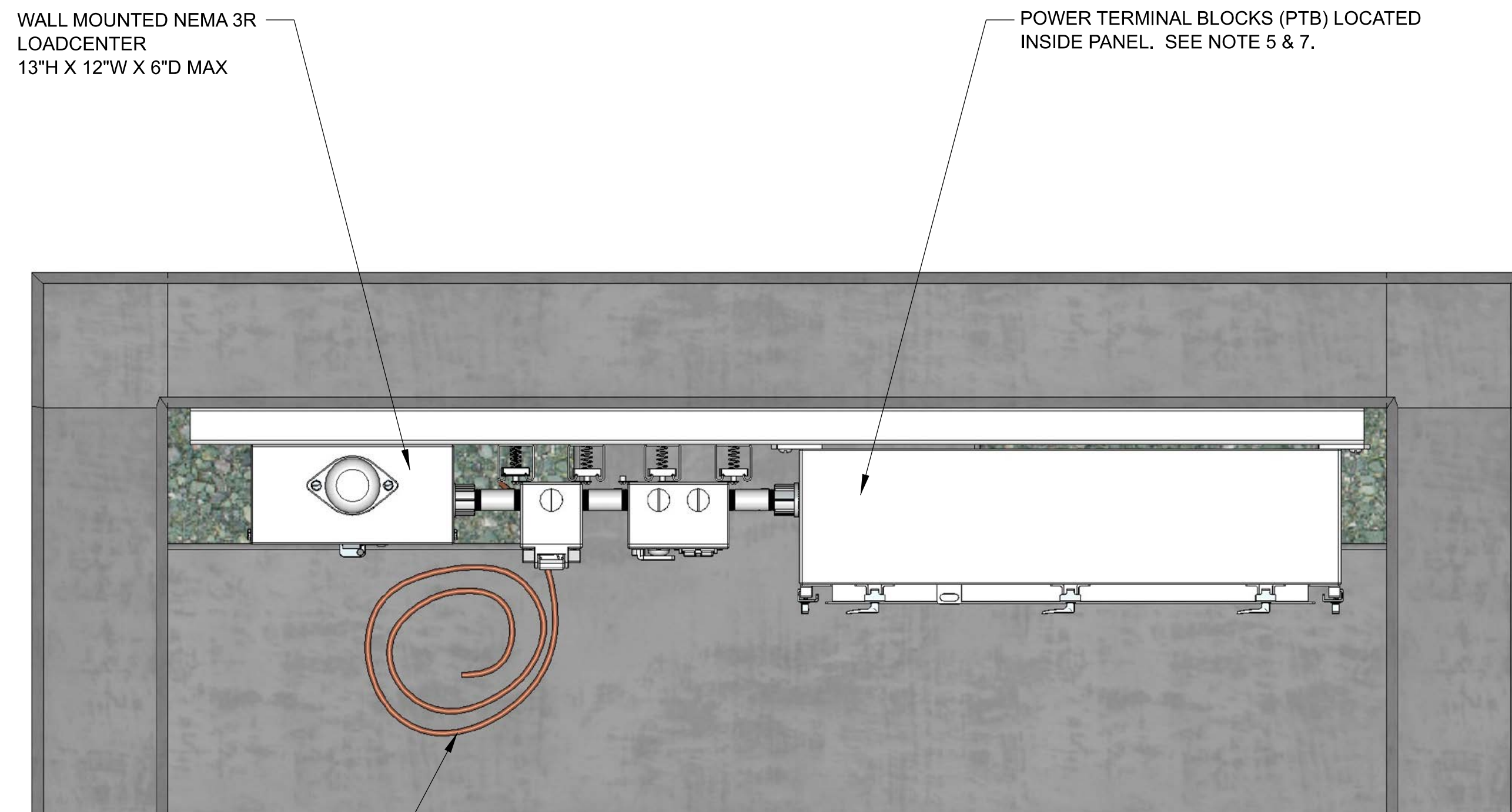
GENERAL NOTE:

THIS EMPLACEMENT DETAIL ALSO APPLIES FOR BATTLE EFFECTS SIMULATORS, MORTAR SIMULATION DEVICES, AND SOUND EFFECTS SIMULATORS.



FRONT ELEVATION STATIONARY INFANTRY TARGET

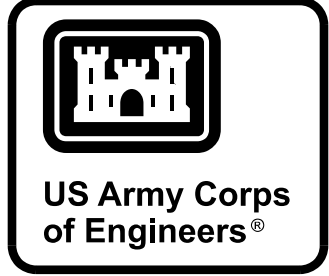
NOT TO SCALE



#6 AWG BARE COPPER CONDUCTOR, 6' COILED ABOVE GROUND FOR BONDING TO FUTURE TARGET

TOP ELEVATION STATIONARY INFANTRY TARGET

NOT TO SCALE



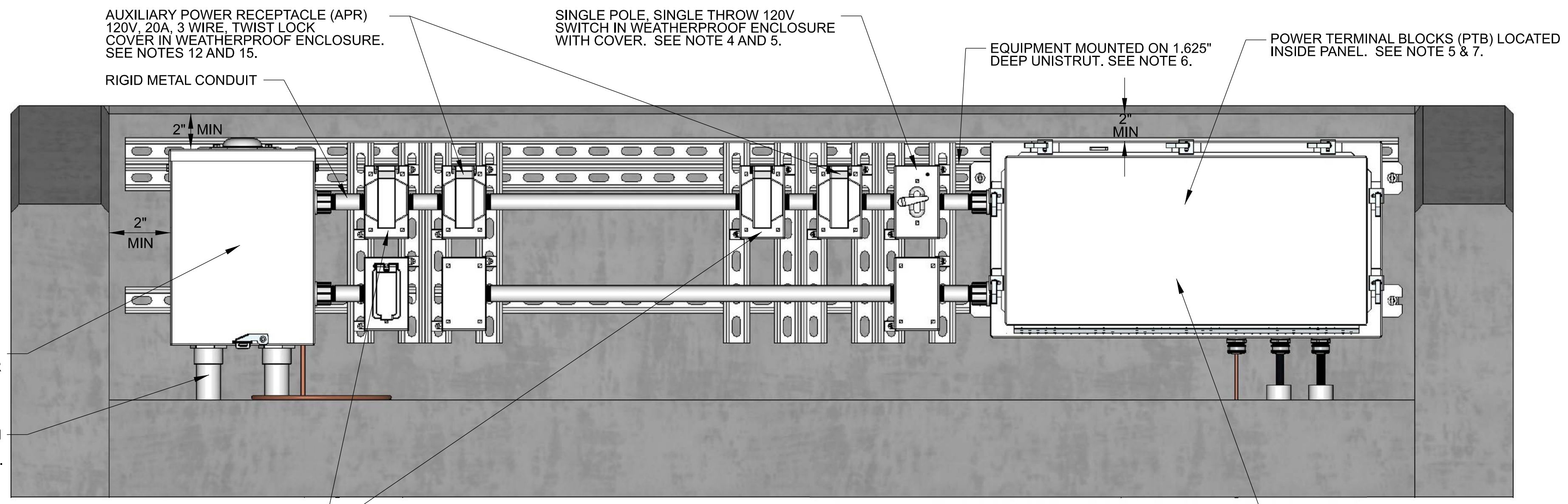
DATE	
DESCRIPTION	
MARK	

ISSUE DATE:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SUBMITTED BY:	
SIZE:	
SOLICITATION NO.:	
CONTRACT NO.:	
PROJECT NUMBER:	
U.S. ARMY CORPS OF ENGINEERS ENGINEERING & SUPPORT CENTER HUNTSVILLE, ALABAMA	MARCH 2025

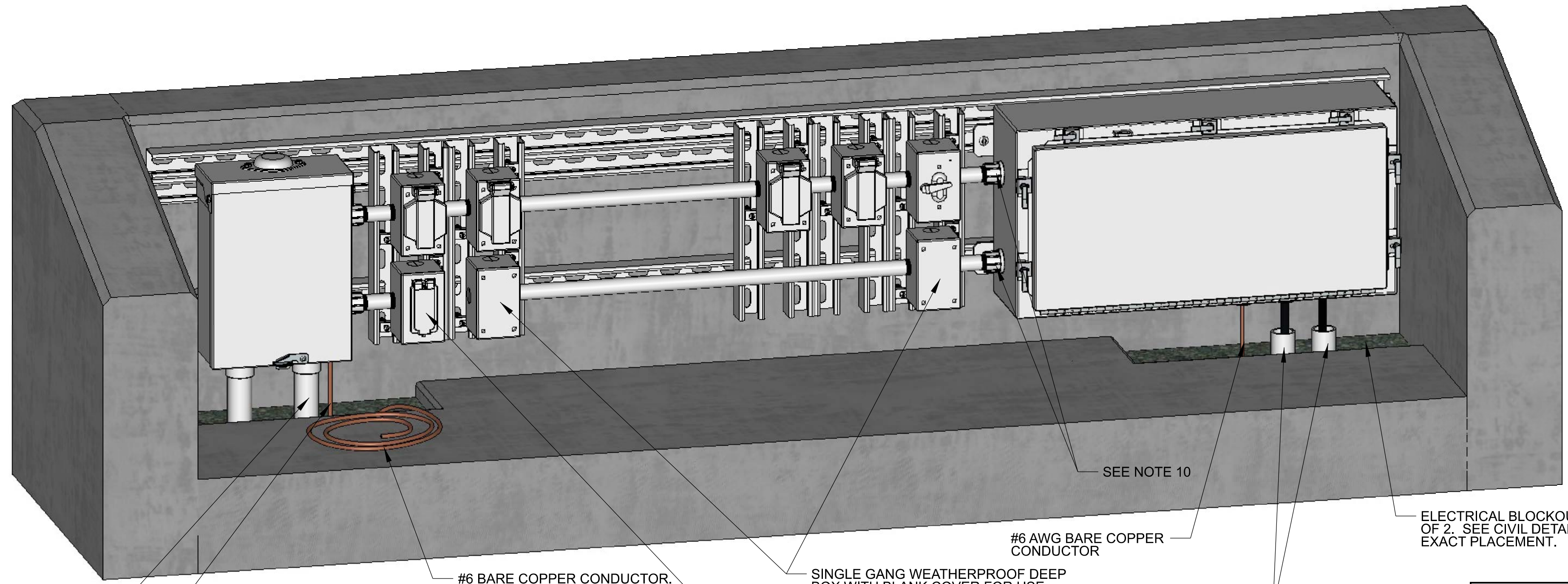
RANGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL	ELECTRICAL DETAILS STATIONARY INFANTRY TARGET
---	--

SHEET ID ED-01

G
F
E
D
C
B
A



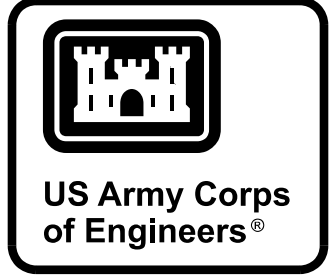
**FRONT ELEVATION
WIDENED STATIONARY INFANTRY TARGET**
NOT TO SCALE



**ISOMETRIC ELEVATION
WIDENED STATIONARY INFANTRY TARGET**
NOT TO SCALE

- NOTES:
- CONDUIT TO EXTEND 5 FEET BEYOND EMPLACEMENT.
 - CABLES/CONDUITS ARE ROUTED FROM SIDE OF BERM TO PREVENT CABLE DAMAGE DURING MAINTENANCE OF BERM.
 - ROUTE UNDER SLAB. POWER AND DATA INSTALLED IN SAME TRENCH.
 - EQUIPMENT SHALL NOT BE MOUNTED HIGHER THAN 2" FROM TOP OF EMPLACEMENT WALL.
 - POWER TO POWER TERMINAL BLOCKS IN MTDP SHALL BE ROUTED THROUGH SINGLE POLE SINGLE THROW SWITCH.
 - ALL EQUIPMENT SHALL BE MOUNTED ON 1.625" DEEP UNISTRUT. NO EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED DIRECTLY TO CONCRETE WALL.
 - TPR, APR AND PTB SHALL NOT BE GFCI PROTECTED.
 - PERMANENTLY LABEL THE EMPLACEMENT ACCORDING TO THE CIVIL AND ELECTRICAL DESIGNATIONS.
 - PROVIDE SEAL FITTINGS AS SHOWN IN CABLE SEAL FITTING DETAIL ON SHEET ED-11 FOR ALL CABLE ENTRANCES INTO NEMA 4, 4X, OR 6P RATED ENCLOSURES.
 - INSTALL MYERS TYPE HUBS ON ALL CONDUIT PENETRATIONS TO SIDE OF ENCLOSURE.
 - ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.
 - PROVIDE TARGET AND AUXILIARY OUTLETS WITH NEMA 3R WET LOCATION COVERS MAKING OUTLETS SUITABLE FOR USE IN WET LOCATIONS. SEE DETAIL SHEET ED-11 FOR WET LOCATION COVER. IN USE COVERS WITH COVERS INTENDED TO CLOSE OVER THE INSERTED CORD ARE NOT ACCEPTABLE AS THESE COVERS WILL NOT CLOSE OVER TARGET OR AUXILIARY CORDS.
 - DEVIATIONS TO THE EQUIPMENT SIZES, EQUIPMENT NUMBERS, RECEPTACLE COVERS, OR CABLE ENTRY METHODS INTO ENCLOSURES WILL REQUIRE RANGE TRAINING AND LAND PROGRAM HUNTSVILLE CENTER MANDATORY CENTER OF EXPERTISE APPROVAL.
 - CONDUIT STUBBED UP AS CLOSE TO CABLE SEAL FITTING AS POSSIBLE.
 - FOR DOUBLE SIT EMPLACEMENTS TWO TARGET LIFTING MECHANISMS MAY BE PROVIDED. DATA WILL BE PROVIDED FROM THE MTDP AND POWER WILL BE PROVIDED FROM ADDITIONAL EXTERIOR ENCLOSURES WITH A NEMA L14-20R AND A NEMA L5-20R RECEPTACLE FED FROM THE LOAD CENTER. MOUNT LOAD CENTER ON LEFT SIDE OF EMPLACEMENT AND MTDP ON THE RIGHT SIDE OF THE EMPLACEMENT. INSTALL ONE SET OF POWER OUTLETS NEXT TO THE LOAD CENTER AND ONE SET OF POWER OUTLETS NEXT TO THE MTDP.
 - SEE SHEET ED-07 FOR ADDITIONAL INFORMATION ON TARGET DATA PANELS. SEE SHEET ED-06 FOR ADDITIONAL INFORMATION ON MASTER TARGET DATA PANELS.
 - PROVIDE GROUNDING IN ACCORDANCE WITH EMPLACEMENT GROUNDING DETAIL ON SHEET ED-11.

PANEL BOARD: WSIT		LOCATION: XXXX		MOUNTED: SURFACE		FEED: BOTTOM						
125 AMP MAIN		MAIN LUGS ONLY		ASYM A.I.C MIN.: 10,000		RATING: NEMA 3R						
VOLTAGE: 240/120		PHASE: 1		WIRE: 3								
LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	VA/PHASE		VA/PHASE		WIRE SIZE	TRIP AMPS	NO. POLES	LOAD SERVED	
				A	B	A	B					
SURGE ARRESTOR	2	---	---	---	---	1	2	960	12	20	2	SIT 2 X (NEMA L14-20R, 2-NEMA L5-20R)
SUB FEED THRU LUGS	2	---	---	---	---	5	6	50	12	20	1	TDP AND MR
						8	---	---	---	20	1	SPARE
				0	0			1010	960			
TOTAL VA PHASE A: 1010				TOTAL VA PHASE B: 960				TOTAL CONNECTED WATTAGE: 1,970				
								95% DEMAND WATTAGE: 1,872				
								TOTAL DEMAND AMPS: 8				
SUPPLIED FROM: TRSF-XX												



ISSUE DATE:	DATE
DESIGNED BY:	MARK
DRAWN BY:	DESCRIPTION
CHECKED BY:	
SUBMITTED BY:	
SIZE:	

U.S. ARMY CORPS OF ENGINEERS ENGINEERING & SUPPORT CENTER HUNTSVILLE, ALABAMA	MARCH 2025
---	------------

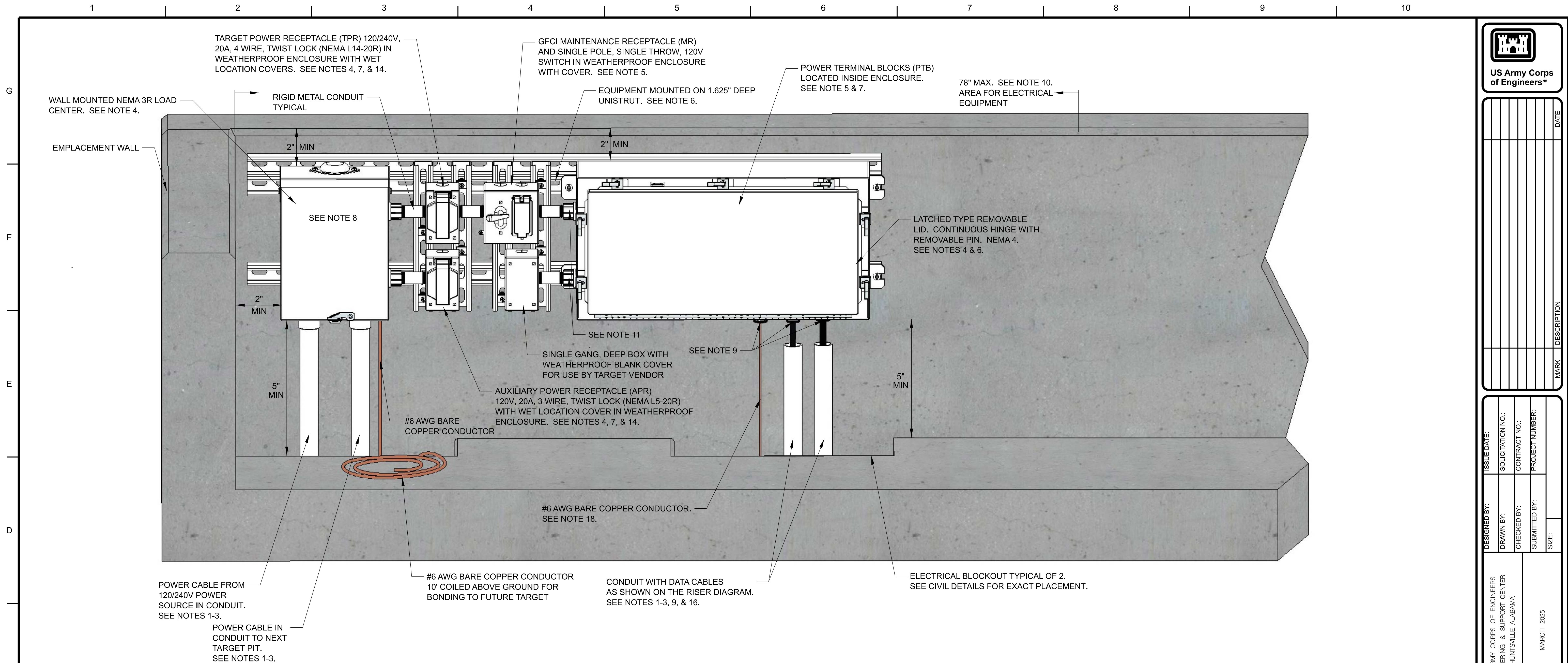
RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

ELECTRICAL DETAILS

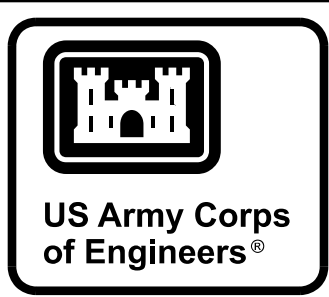
WIDENED STATIONARY INFANTRY TARGET

SHEET ID

ED-01A



**ELEVATION
MOVING INFANTRY TARGET**
NOT TO SCALE



ISSUE DATE:	DATE
DESIGNED BY:	MARK
DRAWN BY:	DESCRIPTION
CHECKED BY:	
SUBMITTED BY:	
SIZE:	

U.S. ARMY CORPS OF ENGINEERS ENGINEERING & SUPPORT CENTER HUNTSVILLE, ALABAMA	ISSUE DATE:	SOLICITATION NO.:
MARCH 2025	DESIGNED BY:	CONTRACT NO.:
	DRAWN BY:	PROJECT NUMBER:
	CHECKED BY:	SIZE:
	SUBMITTED BY:	

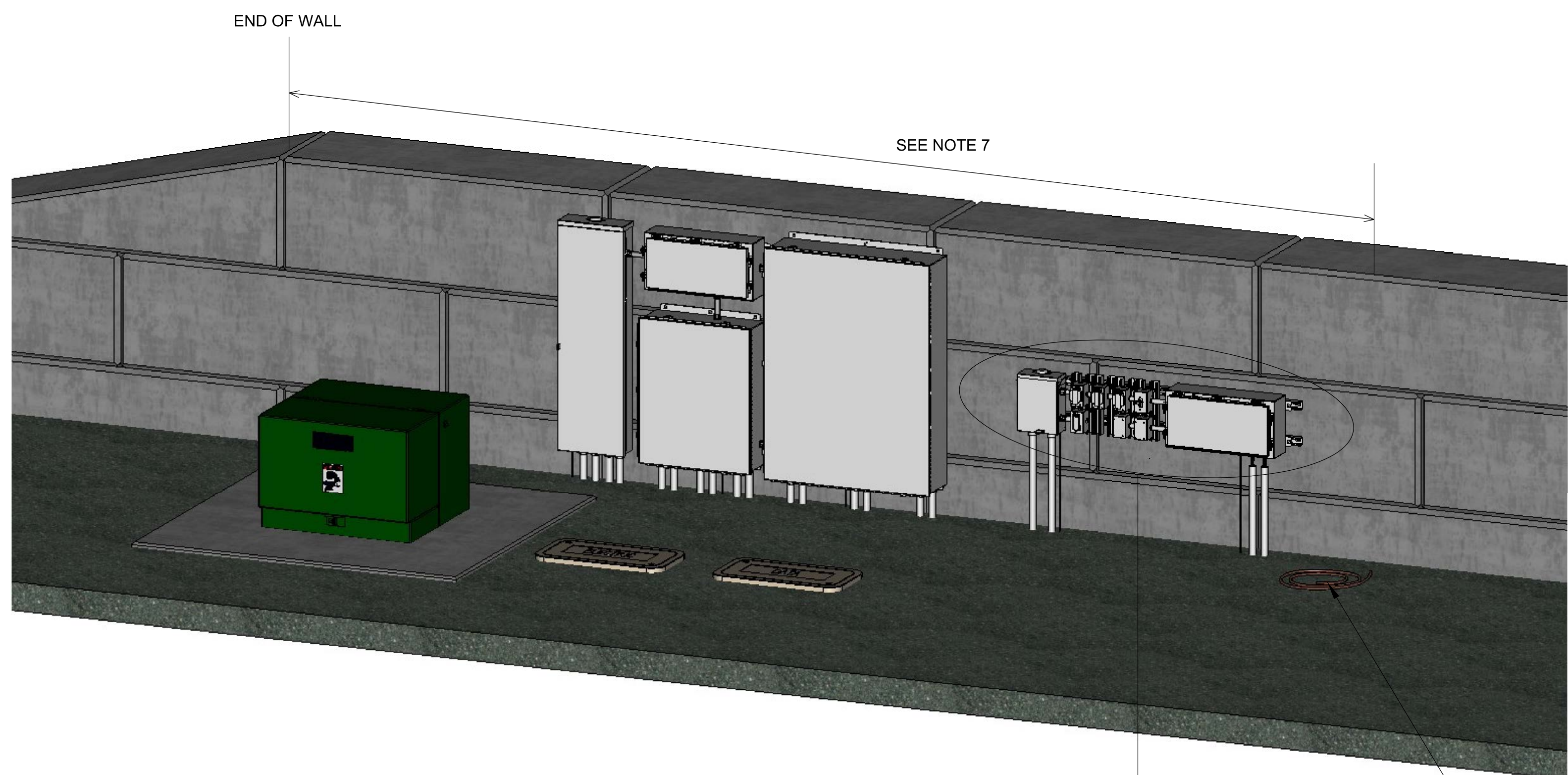
RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
MOVING INFANTRY TARGET
ELECTRICAL DETAILS

SHEET ID
ED-02

PANEL BOARD: MIT		LOCATION: XXXXXXX		MOUNTED: SURFACE		FEED: BOTTOM	
125 MAIN		MAIN LUGS OR FEED THRU LUGS		ASYM A.I.C MIN: XXXXX			
VOLTAGE: 240/120		PHASE: 1		WIRE: 3		RATING: NEMA 3R	
		VA / PHASE		VA / PHASE			
LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	A	B	CKT NO.	LOAD SERVED
SURGE ARRESTOR	2	----	---	---	---	1 2	MIT (NEMA L14-20R, NEMA L5-20R)
SPARE	1	20	---	---	---	5 6	TDP AND MR
SPACE						7 8	SPARE
SPACE						9 10	SPACE
SPACE						11 12	SPACE
				0	0		
				1050	1000		
TOTAL VA PHASE A: 1050				TOTAL CONNECTED WATTAGE: 2,050			
TOTAL VA PHASE B: 1000				DEMAND WATTAGE: 2,000			
SUPPLIED FROM: TRSF-XX				TOTAL DEMAND AMPS: 8			

- NOTES:
- CONDUIT TO EXTEND 5 FEET BEYOND EMPLACEMENT.
 - CABLES/CONDUITS ARE ROUTED FROM SIDE OF BERM TO PREVENT CABLE DAMAGE DURING MAINTENANCE OF BERM.
 - ROUTE UNDER SLAB. POWER AND DATA INSTALLED IN SAME TRENCH.
 - EQUIPMENT SHALL NOT BE MOUNTED HIGHER THAN 2" FROM TOP OF EMPLACEMENT WALL.
 - POWER TERMINAL BLOCKS IN MTDP SHALL BE ROUTED THROUGH SINGLE POLE SINGLE THROW SWITCH.
 - ALL EQUIPMENT SHALL BE MOUNTED ON 1.625" DEEP UNISTRUT. NO EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED DIRECTLY TO CONCRETE WALL.
 - TPR, APR AND PTB SHALL NOT BE GFCI PROTECTED.
 - PERMANENTLY LABEL THE EMPLACEMENT ACCORDING TO THE CIVIL AND ELECTRICAL DESIGNATIONS.
 - PROVIDE SEAL FITTINGS AS SHOWN IN CABLE SEAL FITTING DETAIL ON SHEET ED-11 FOR ALL CABLE ENTRANCES INTO NEMA 4, 4X, OR 6P RATED ENCLOSURES.
 - INSTALL POWER AND DATA ON THE FIRST 78" OF THE FRONT WALL CLOSEST TO THE DIRECTION OF FIRE.
 - INSTALL MYERS TYPE HUBS ON ALL CONDUIT PENETRATIONS INTO THE SIDE OF THE DATA ENCLOSURE.
 - ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.
 - PROVIDE GROUNDING IN ACCORDANCE WITH EMPLACEMENT GROUNDING DETAIL ON SHEET ED-11.
 - PROVIDE TARGET AND AUXILIARY OUTLETS WITH NEMA 3R WET LOCATION COVERS MAKING OUTLETS SUITABLE FOR USE IN WET LOCATIONS. SEE DETAIL SHEET ED-11 FOR WET LOCATION COVER. IN USE COVERS WITH COVERS INTENDED TO CLOSE OVER THE INSERTED CORD ARE NOT ACCEPTABLE AS THESE COVERS WILL NOT CLOSE OVER THE TARGET POWER OR AUXILIARY CORDS.
 - DEVIATIONS TO THE EQUIPMENT SIZES, EQUIPMENT NUMBERS, RECEPTACLE COVERS, OR CABLE ENTRY METHODS INTO ENCLOSURES WILL REQUIRE RANGE TRAINING LAND PROGRAM, HUNTSVILLE CENTER MANDATORY CENTER OF EXPERTISE APPROVAL.
 - STUB UP CONDUIT AS CLOSE AS PRACTICAL TO CABLE FITTING.
 - SEE SHEET ED-07 FOR ADDITIONAL INFORMATION ON TARGET DATA PANELS. SEE SHEET ED-06 FOR ADDITIONAL INFORMATION ON MASTER TARGET DATA PANELS.

G
F
E
D
C
B
A



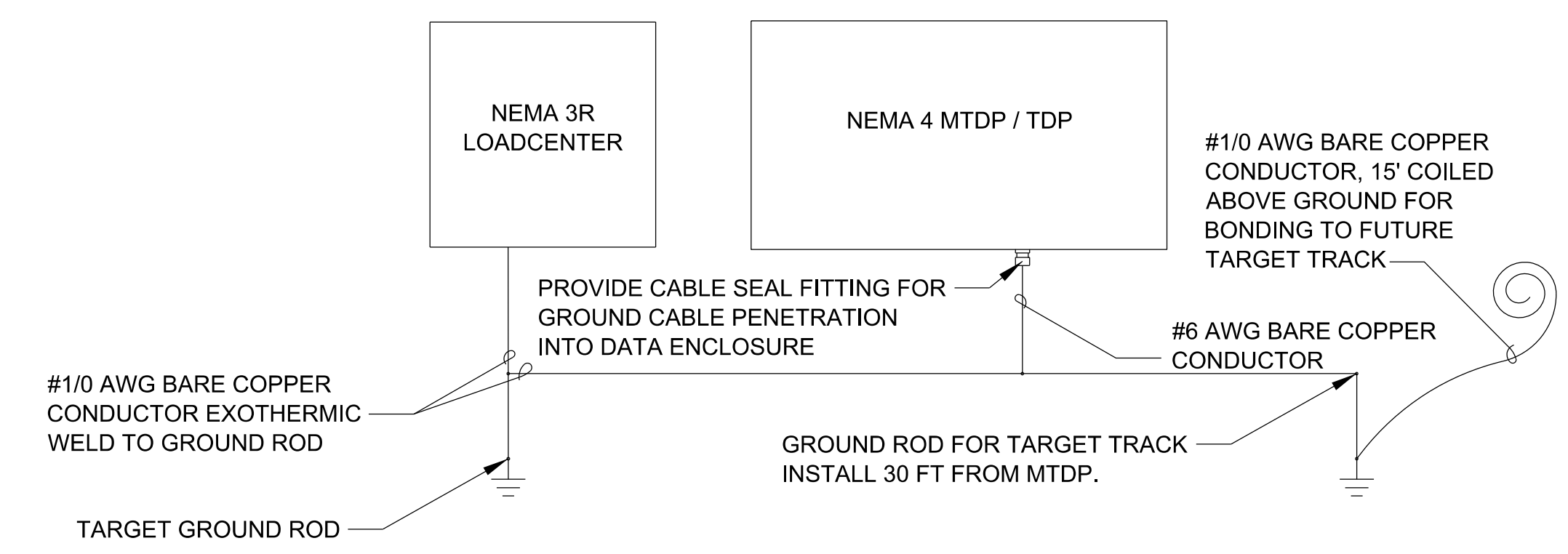
PARTIAL MAT TARGET ELEVATION
NOT TO SCALE

PANEL BOARD: MAT		LOCATION: XXXXXX		MOUNTED: SURFACE		FEED: BOTTOM				
XXXX MAIN		MAIN LUGS ONLY		ASYM A.I.C MIN.: XXXX		RATING: NEMA 3R				
VOLTAGE: 240/120		PHASE: 1		WIRE: 3						
LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	VA/ PHASE		VA/ PHASE		TRIP AMPS	NO. POLES	LOAD SERVED
				A	B	A	B			
SURGE ARRESTOR	2	---	---	---	---	1900	1900	12	20	MAT (NEMA L14-20R, 2-NEMA L5-20R)
SPACE	1	20	---	---	---	5	6	12	20	TDP AND MR
SPACE						7	8	---	20	SPACE
SPACE						9	10			SPACE
SPACE						11	12			SPACE
				0	0			1950	1900	

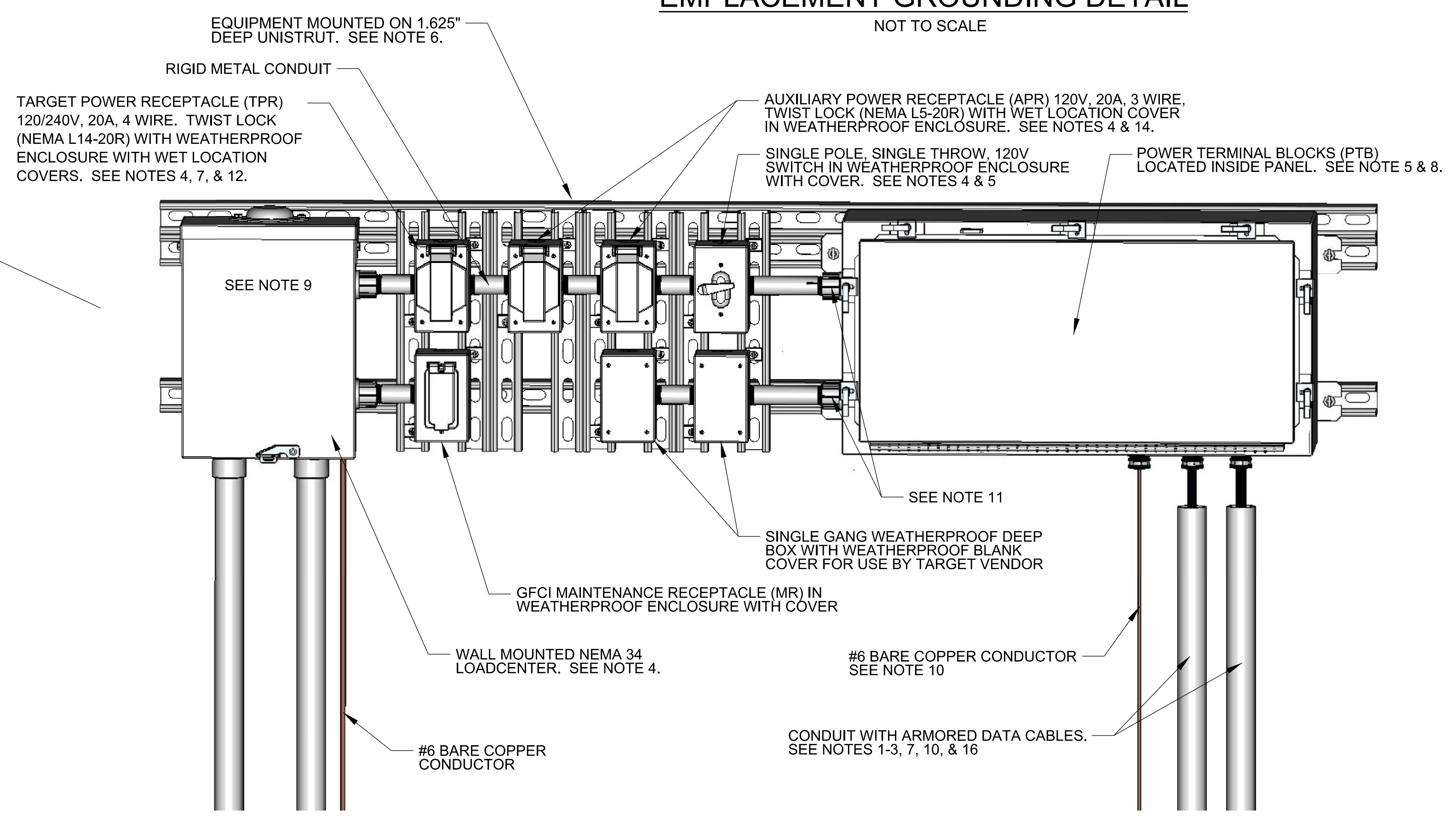
TOTAL VA PHASE A: **1950**
TOTAL VA PHASE B: **1900**

TOTAL CONNECTED WATTAGE: **3,850**
DEMAND WATTAGE: **3,800**
TOTAL DEMAND AMPS: **16**

SUPPLIED FROM: **TRSF-XX**



EMPLACEMENT GROUNDING DETAIL
NOT TO SCALE



MAT TARGET ENLARGED ELECTRICAL EQUIPMENT ELEVATION
NOT TO SCALE

- NOTES:
- CONDUIT TO EXTEND 5 FEET BEYOND EMPLACEMENT.
 - CABLES/CONDUITS ARE ROUTED FROM SIDE OF BERM TO PREVENT CABLE DAMAGE DURING MAINTENANCE OF BERM.
 - ROUTE UNDER SLAB. POWER AND DATA INSTALLED IN SAME TRENCH.
 - EQUIPMENT SHALL NOT BE MOUNTED HIGHER THAN 2" FROM TOP OF EMPLACEMENT WALL.
 - POWER TERMINAL BLOCKS IN MTD SHALL BE ROUTED THROUGH SIGN LE POLE, SINGLE THROW SWITCH.
 - ALL EQUIPMENT SHALL BE MOUNTED ON 1.625" DEEP UNISTRUT. NO EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED DIRECTLY TO THE CONCRETE WALL.
 - INSTALL ALL EQUIPMENT WITHIN 240" OF WALL END
 - TPR, APR AND PTB SHALL NOT BE GFCI PROTECTED.
 - PERMANENTLY LABEL THE EMPLACEMENT ACCORDING TO THE CIVIL AND ELECTRICAL DESIGNATIONS.
 - PROVIDE SEAL FITTINGS AS SHOWN IN DETAIL ON SHEET ED-11 FOR ALL CABLE PENETRATIONS TO NEMA 4, 4X, OR 6P RATED ENCLOSURES.
 - INSTALL MYERS TYPE HUBS ON ALL CONDUIT PENETRATIONS TO SIDE OF ENCLOSURE.
 - ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.
 - IF TARGET IS BATTERY OPERATED WITH NO AC POWER PROVIDED, THE TARGET GROUND ROD SHALL BE INSTALLED WITH A 15' COILED #1/0 AWG BARE COPPER GROUND CABLE FOR FUTURE BONDING TO THE TARGET MECHANISM.
 - PROVIDE TARGET AND AUXILIARY OUTLETS WITH NEMA 3R WET LOCATION COVERS MAKING OUTLETS SUITABLE FOR USE IN WET LOCATIONS. SEE DETAIL SHEET ED-11 FOR WET LOCATION COVER. IN USE COVERS WITH COVERS INTENDED TO CLOSE OVER THE INSERTED CORD ARE NOT ACCEPTABLE AS THESE COVERS WILL NOT CLOSE OVER THE TARGET POWER OR AUXILIARY CORDS.
 - DEVIATIONS TO THE EQUIPMENT SIZES, EQUIPMENT NUMBERS, RECEPTACLE COVERS, OR CABLE ENTRY METHODS INTO ENCLOSURES WILL REQUIRE RANGE TRAINING AND LAND PROGRAM HUNTSVILLE CENTER MANDATORY CENTER OF EXPERTISE APPROVAL.
 - CONDUIT STUBBED UP AS CLOSE TO CABLE SEAL FITTING AS POSSIBLE.
 - EQUIPMENT IS SHOWN AT THE PREFERRED MOUNTING HEIGHT. UNDER NO CIRCUMSTANCE SHOULD ANY EQUIPMENT BE INSTALLED SUCH THAT THE TOP OF THE EQUIPMENT IS LESS THAN 2" FROM THE TOP OF THE EMPLACEMENT WALL.
 - SEE SHEET ED-07 FOR ADDITIONAL INFORMATION ON TARGET DATA PANELS. SEE SHEET ED-06 FOR ADDITIONAL INFORMATION ON MASTER TARGET DATA PANELS.
 - LENGTH OF 157" IS FOR MAT WITH STANDARD EQUIPMENT SHOWN. INCREASE LENGTH TO 236" WHEN SECTIONALIZING ENCLOSURE IS REQUIRED IN DESIGN. COORDINATE WITH CIVIL DESIGN.

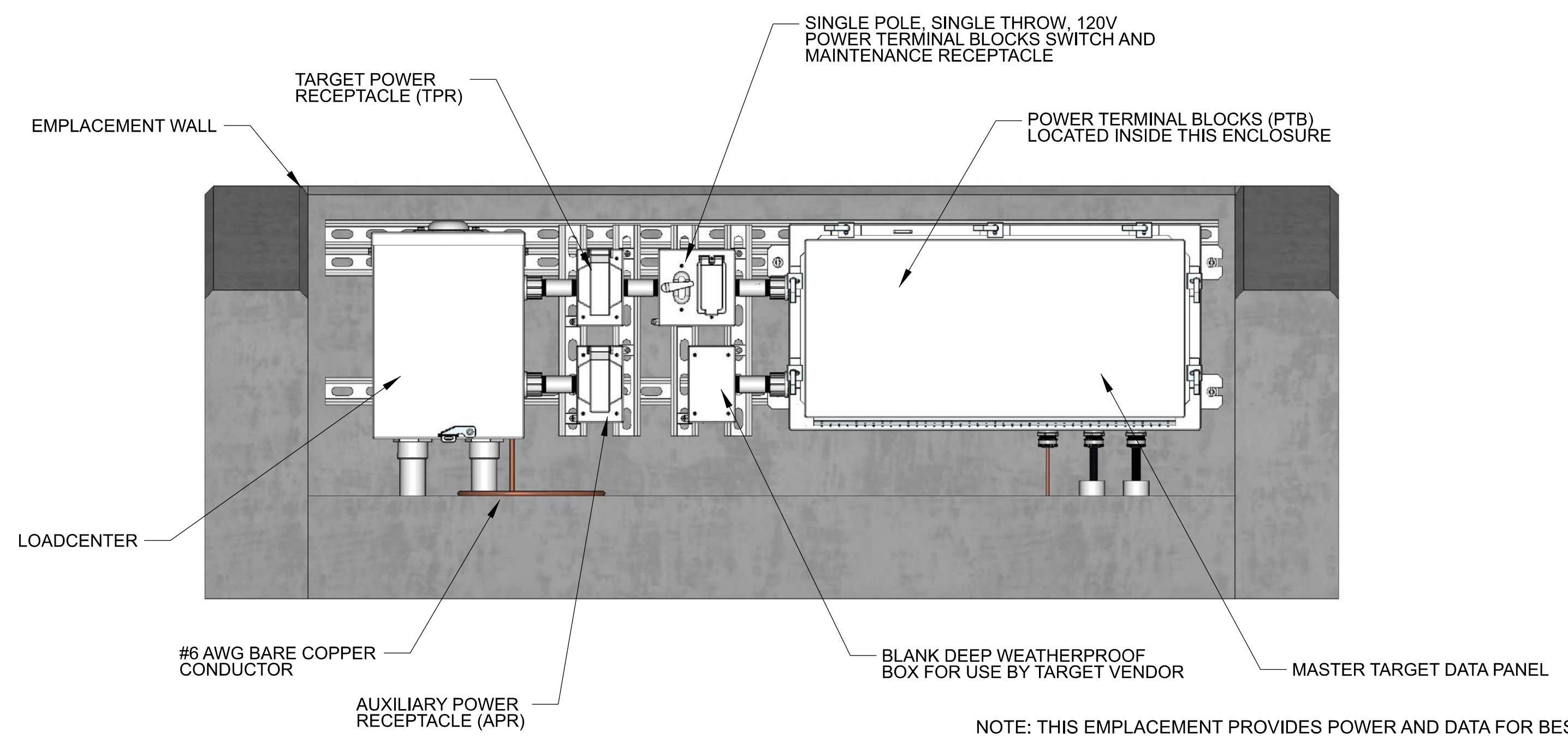
US Army Corps of Engineers®

ISSUE DATE: SOLICITATION NO.: CONTRACT NO.: PROJECT NUMBER: SIZE:	DATE MARK DESCRIPTION
---	-----------------------------

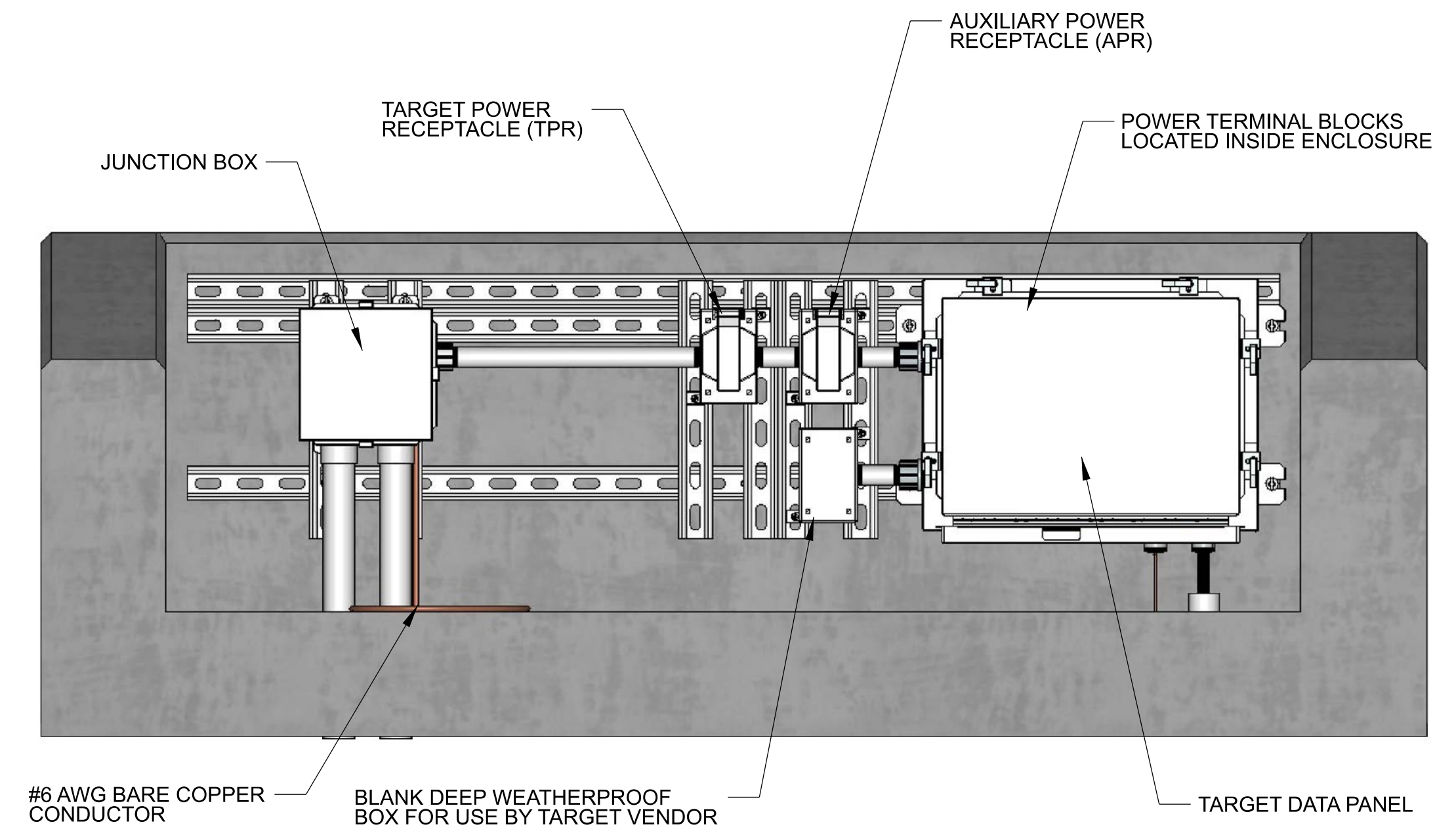
DESIGNED BY: U.S. ARMY CORPS OF ENGINEERS
 DRAWN BY: ENGINEERING & SUPPORT CENTER
 CHECKED BY: HUNTSVILLE, ALABAMA
 SUBMITTED BY: MARCH 2024

RANGE AND TRAINING LAND PROGRAM
 STANDARD DESIGN MANUAL
 ELECTRICAL DETAILS
 MOVING ARMOR TARGET
 WITH POWER CENTER

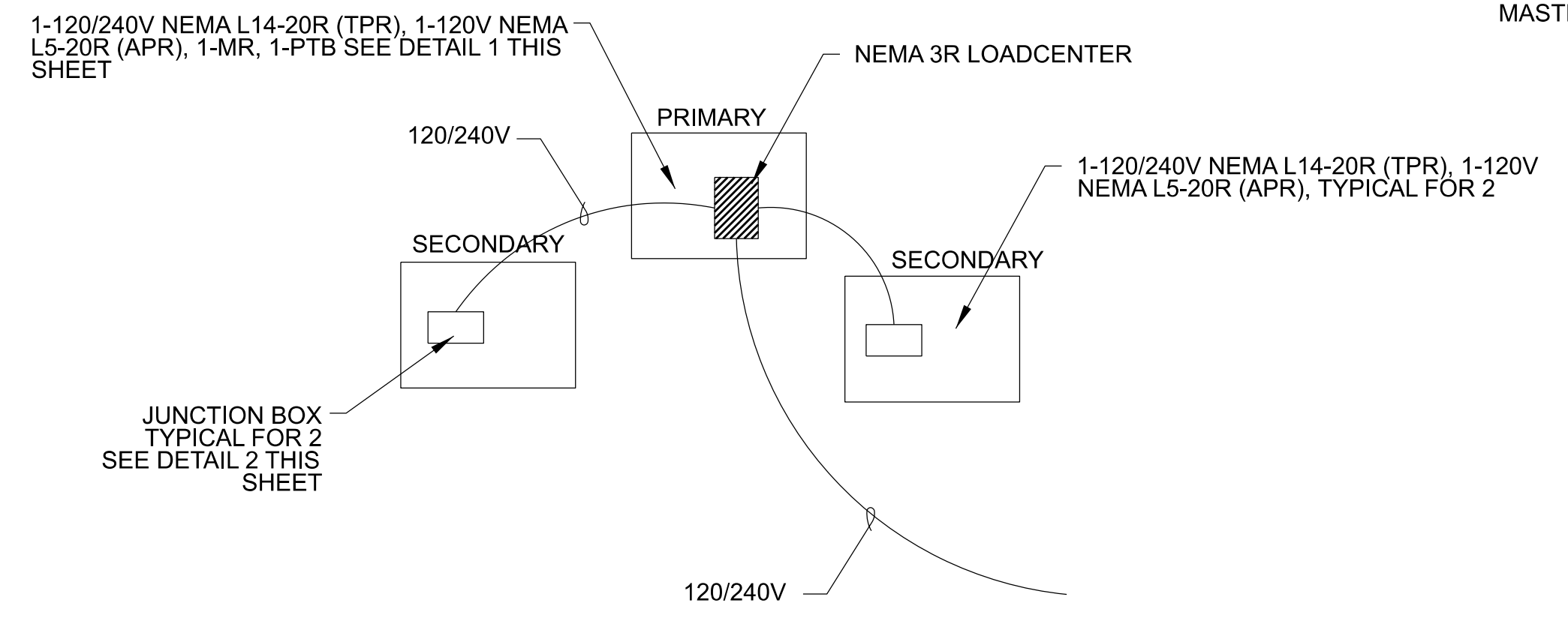
SHEET ID
ED-04B



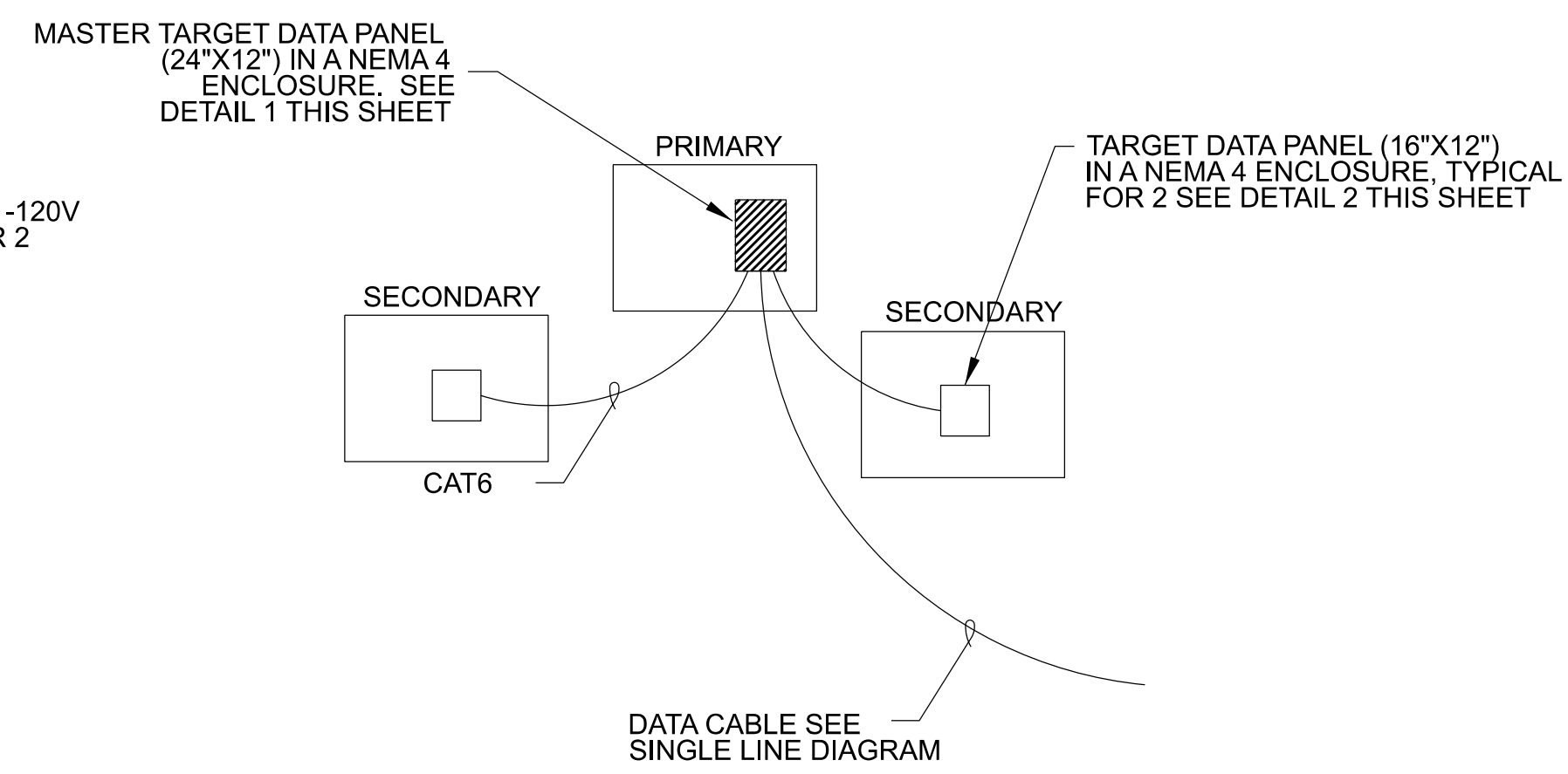
**STATIONARY INFANTRY TARGET CLUSTER
PRIMARY TARGET ELEVATION**
NOT TO SCALE



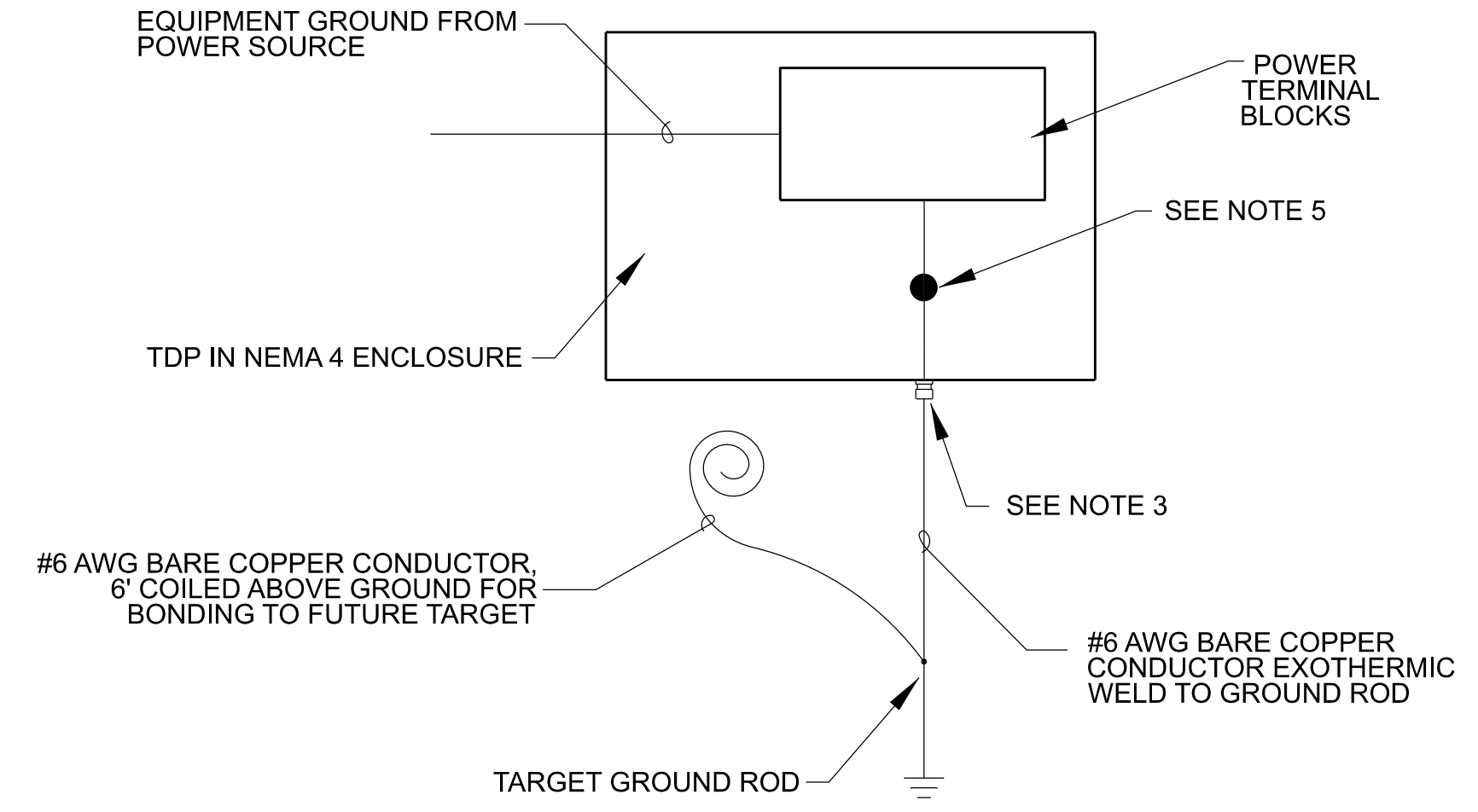
**STATIONARY INFANTRY TARGET CLUSTER
SECONDARY TARGET ELEVATION**
NOT TO SCALE



SIT CLUSTER POWER ONLY
NOT TO SCALE



SIT CLUSTER DATA ONLY
NOT TO SCALE

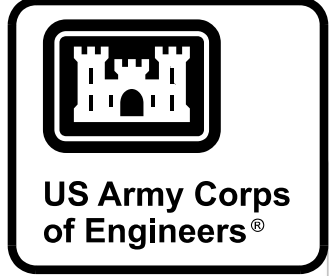


SECONDARY EMPLACEMENT GROUNDING DETAIL
NOT TO SCALE

PANEL BOARD: SIT		LOCATION: XXXX		MOUNTED: SURFACE		FEED: BOTTOM	
125 AMP MAIN		MAIN LUGS ONLY		ASYM A.I.C MIN: 10,000			
VOLTAGE: 240/120		PHASE: 1		WIRE: 3		RATING: NEMA 3R	
LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	VA/ PHASE		VA/ PHASE	
				A	B	A	B
SURGE ARRESTOR	2	---	---	---	---	1	2
						1440	1440
SUB FEED THRU LUGS	2	---	---	---	---	5	6
						8	8
				0	0	1490	1440
TOTAL VA PHASE A: 1490		TOTAL VA PHASE B: 1440		TOTAL CONNECTED WATTAGE: 2,930		95% DEMAND WATTAGE: 2,784	
SUPPLIED FROM: TRSF-XX				TOTAL DEMAND AMPS: 12			

- NOTES:
- CABLES/CONDUITS ARE ROUTED FROM SIDE OF BERM TO PREVENT CABLE DAMAGE DURING MAINTENANCE OF BERM.
 - ALL EQUIPMENT SHALL NOT BE MOUNTED HIGHER THAN 2" FROM TOP OF EMPLACEMENT WALL.
 - PROVIDE SEAL FITTINGS AS SHOWN IN DETAIL ON SHEET ED-11 FOR ALL NEMA 4, 4X, OR 6P RATED ENCLOSURES.
 - PROVIDE TARGET AND AUXILIARY OUTLETS WITH WET LOCATION COVERS MAKING OUTLETS SUITABLE FOR USE IN WET LOCATIONS. SEE DETAIL ON SHEET ED-11 FOR WE LOCATION COVER. STANDARD IN USE COVERS FOR REGULAR DUPLEX OUTLETS WILL NOT CLOSE OVER TARGET PLUG AND CORD.
 - BOND EQUIPMENT GROUND FROM POWER SOURCE TO TARGET DATA PANEL (TDP).
 - SEE SHEET ED-08 FOR CLUSTER TDP DESIGN.

NOTE: DETAIL APPLICABLE TO SECONDARY EMPLACEMENT ONLY. SEE DETAIL SHEET ED-11 FOR GROUNDING DETAIL FOR PRIMARY DETAIL EMPLACEMENT.



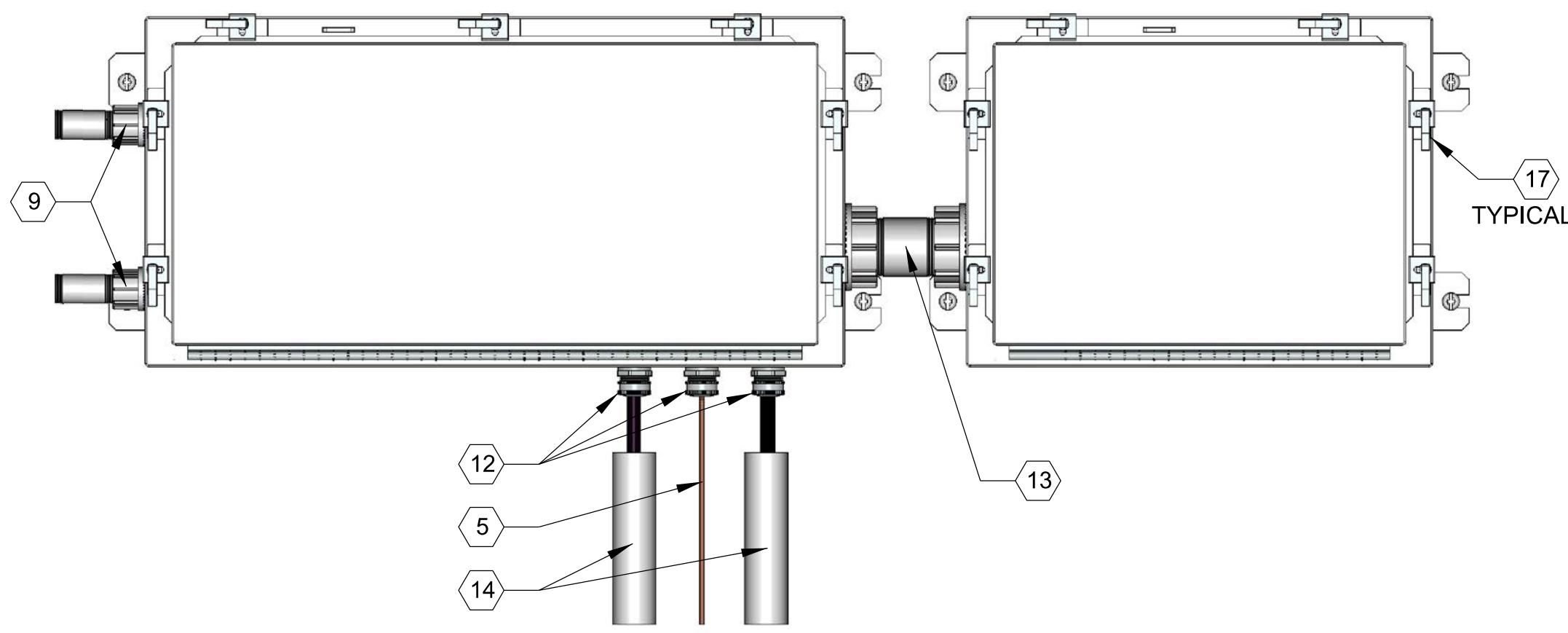
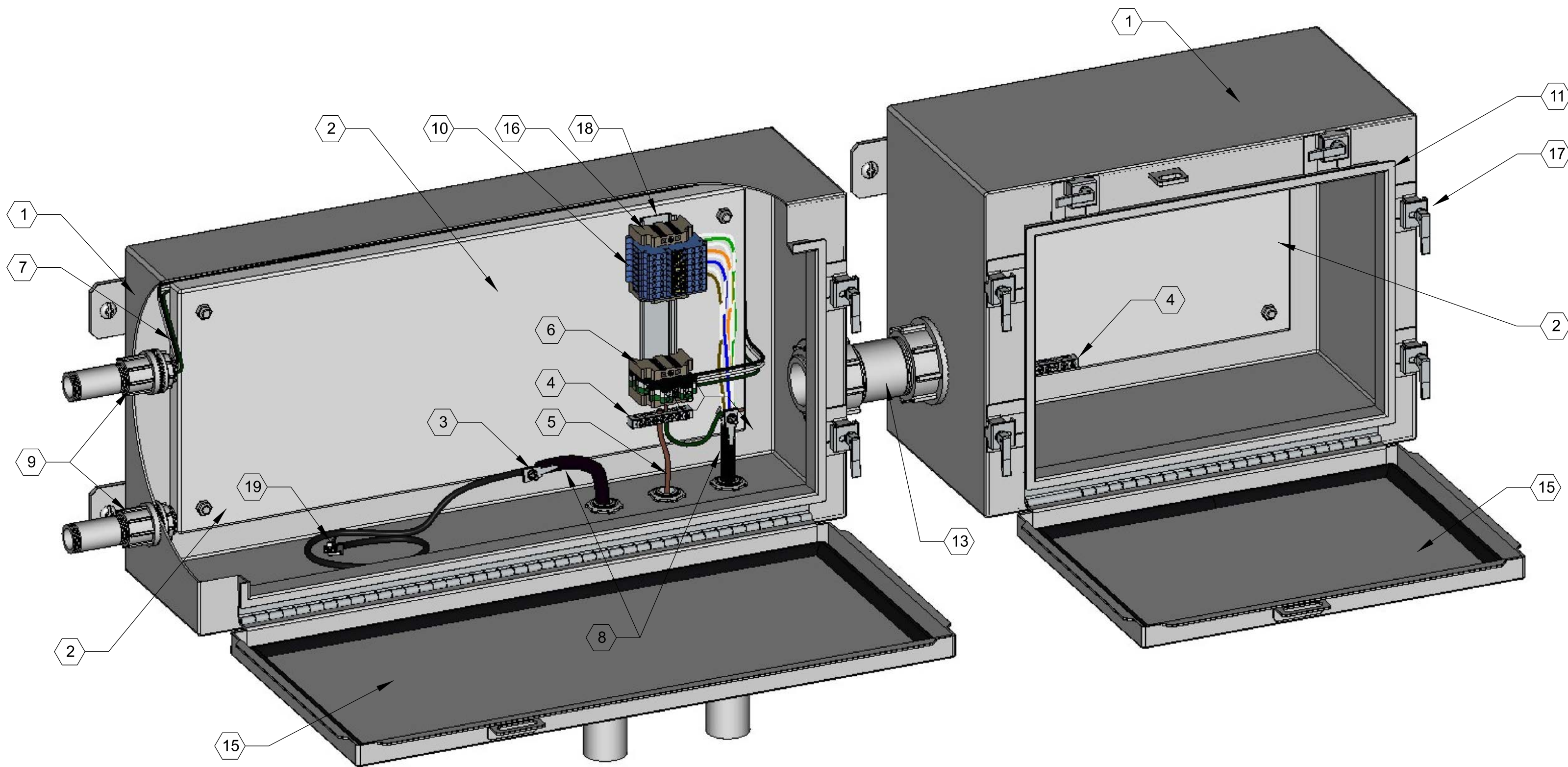
ISSUE DATE:	DATE:
DESIGNED BY:	MARK:
DRAWN BY:	DESCRIPTION:
CHECKED BY:	
SUBMITTED BY:	
SIZE:	

U.S. ARMY CORPS OF ENGINEERS ENGINEERING & SUPPORT CENTER HUNTSVILLE, ALABAMA	U.S. ARMY CORPS OF ENGINEERS SOLICITATION NO.:
	CONTRACT NO.:
	PROJECT NUMBER:
	DATE:

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

ELECTRICAL DETAILS
3 MAN SIT CLUSTER

G
F
E
D
C
B
A

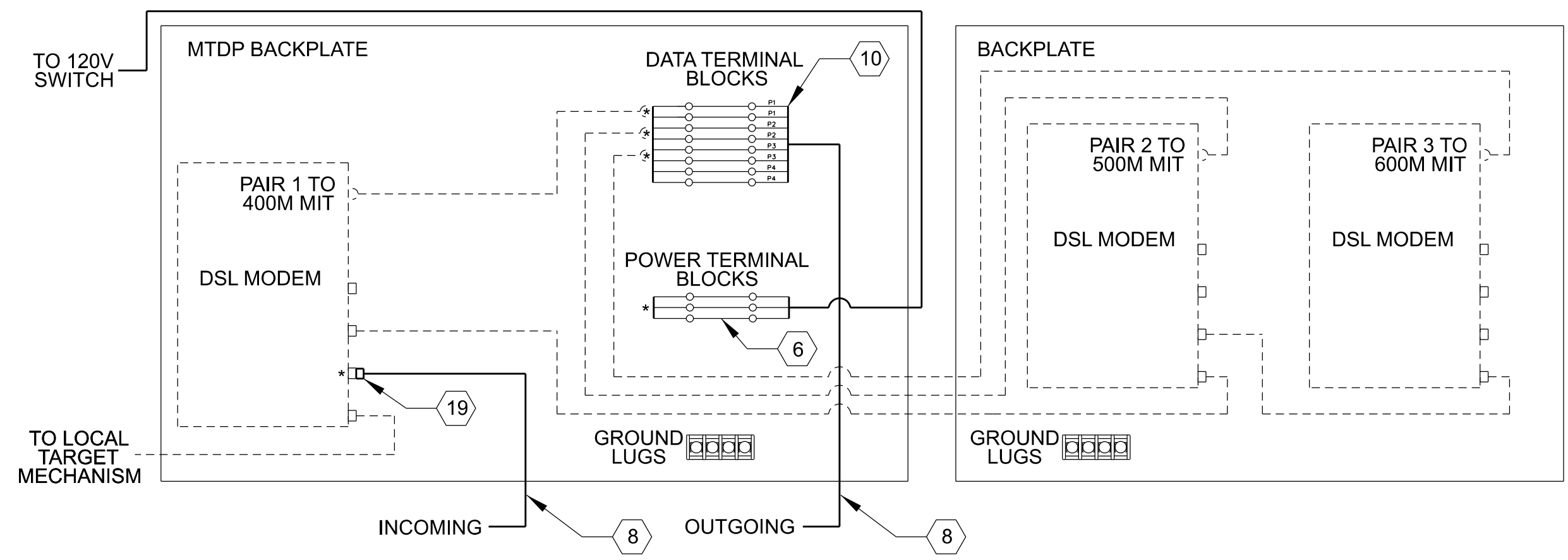


(MASTER) TARGET DATA PANEL
SEE GENERAL NOTE 4

ARF+ 300M MIT MASTER TARGET DATA PANEL (MTDP) DETAIL AT TARGET EMPLACEMENT
NOT TO SCALE

KEYED NOTES REPRESENTED WITH #:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. ENCLOSURE SHALL BE 16 GAUGE MINIMUM GALVANIZED STEEL SHEET METAL WITH WALL MOUNT BRACKETS. ENCLOSURE SHALL CARRY A NEMA 4 RATING AND BE TESTED BY UL OR OTHER APPROVED TESTING AGENCY. (SEE GENERAL NOTE 3.) 2. METAL BACK PLATE TO SECURE COMPONENTS INSIDE ENCLOSURE. 3. METALLIC CABLE SHEATH GROUNDING CLAMP AND GROUNDING CONNECTOR, BOND CABLE ARMOR/SHIELD TO BACK PLATE GROUND BAR. ALL CABLES IN ENCLOSURE MUST BE BONDED TO GROUND. ALL CABLE GROUNDS MAY NOT BE SHOWN IN THIS DETAIL. 4. GROUND BAR - SECURE TO METAL BACK PLATE. BOND ALL GROUND BARS TOGETHER WITH A #6 AWG GROUND CONDUCTOR. GROUND CABLE NOT SHOWN ON THIS DETAIL. 5. #6 AWG BARE COPPER GROUNDING CONDUCTOR. 6. FEED THROUGH TERMINAL BLOCK SECTIONS WITH 2 SCREW TYPE CONNECTIONS FOR TERMINATION OF 120 VOLT POWER FROM SWITCH. SEE DETAIL SHEET ED-11. 7. 2/C #12 WITH GROUND IN CONDUIT FROM SINGLE POLE SINGLE THROW SWITCH FOR 120 VOLT, 1-PHASE SERVICE TO POWER TERMINAL BLOCKS. SEE TARGET EMPLACEMENT ELECTRICAL DETAIL FOR SWITCH LOCATIONS 8. DIRECT BURIAL GRADE CATEGORY 6 ARMORED CABLES. BOND CABLE SHIELD TO TDP BACK PLATE GROUNDING. ALL CABLES NOT SHOWN FOR CLARITY. 9. PROVIDE MYERS HUB TYPE FITTING AT CONDUIT PENETRATION. 10. FEED THROUGH TERMINAL BLOCK SECTIONS WITH 2 SCREW TYPE CONNECTIONS FOR CAT 6 CABLE TERMINATION. NUMBER OF TERMINALS AS REQUIRED BY DATA CABLES, ONE TERMINAL BLOCK FOR EACH WIRE. SEE DETAIL SHEET ED-11. 11. MTDP SHALL HAVE A ROLLED FLANGE AROUND PERIMETER OF OPENING. | <ol style="list-style-type: none"> 12. PROVIDE ONE CABLE SEAL FITTING FOR EACH CABLE. SEE "TYPICAL CABLE SEAL FITTING DETAIL." SHEET E-11. 13. 2" CONDUIT WITH MYERS TYPE HUBS WHERE CONDUIT PENETRATES EACH ENCLOSURE. CONDUIT USE BY TARGET INSTALLER. 14. CONDUIT WITH DIRECT BURIAL CATEGORY 6 ARMORED CABLES. SEE TARGET EMPLACEMENT PLAN AND ELEVATION. STUB CONDUIT UP ABOVE SLAB AND SEAL WATERTIGHT WITH DUCT SEALANT - FOAM IS NOT ACCEPTABLE. 15. HINGED COVER WITH CORROSION-RESISTANT STAINLESS STEEL CAPTIVE CLAMPS. HINGE MUST HAVE REMOVABLE PIN. PROVIDE A SEAMLESS FOAM-IN-PLACE GASKET FOR A WATERTIGHT AND DUST TIGHT SEAL. 16. SUPPORT BRACKET FOR BUSBAR TERMINAL BLOCK. PROVIDE ONE SUPPORT BRACKET ON EACH END OF TERMINAL BLOCKS. 17. PROVIDE ENCLOSURE WITH FAST OPERATING CLAMP ASSEMBLY. BOLT TYPE CLAMPS ARE NOT ACCEPTABLE. 18. STANDARD PROFILE DIN RAIL. LENGTH SHALL BE AS REQUIRED TO ACCOMMODATE TERMINAL BLOCK SECTIONS AND SUPPORT BRACKETS. 19. SHIELDED RJ-45 MALE CONNECTOR. |
|---|--|

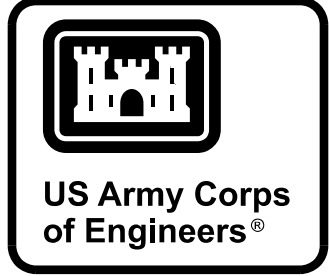


MTDP DATA WIRING SCHEMATIC

- PROVIDED BY COBSTRUCTION CONTRACTOR
- - - PROVIDED BY TARGET VENDOR
- * CONNECTION BY TARGET VENDOR

GENERAL NOTES:

1. PROVIDE CABLE IDENTIFICATION DIRECTORY ON INSIDE OF COVER.
2. LABEL ALL CABLES WITH ADHESIVE POLYETHYLENE WRAP AROUND LASER PRINTED LABELS INDICATING CABLE DESTINATION AND CABLE TYPE.
3. ENCLOSURES SHALL BE 24"W X 12"H X 6"D AND 16"W X 12"H X 8"D FOR ARF+ 300 METER MIT.
4. ALL COMPONENTS INSTALLED INSIDE MTDP ENCLOSURES SHALL BE SECURED BY MECHANICAL MEANS. ADHESIVES ARE NOT ALLOWED FOR SECURING COMPONENTS INSIDE MTDP ENCLOSURES.
5. CAT 6 DATA CABLES PROVIDE THE MINIMUM PERFORMANCE REQUIREMENTS FOR COPPER DATA CABLES. DATA CABLES THAT EXCEED CATEGORY 6 PERFORMANCE REQUIREMENTS MAY BE USED AS LONG AS ALL PHYSICAL REQUIREMENTS SPECIFIED HEREIN ARE MAINTAINED.



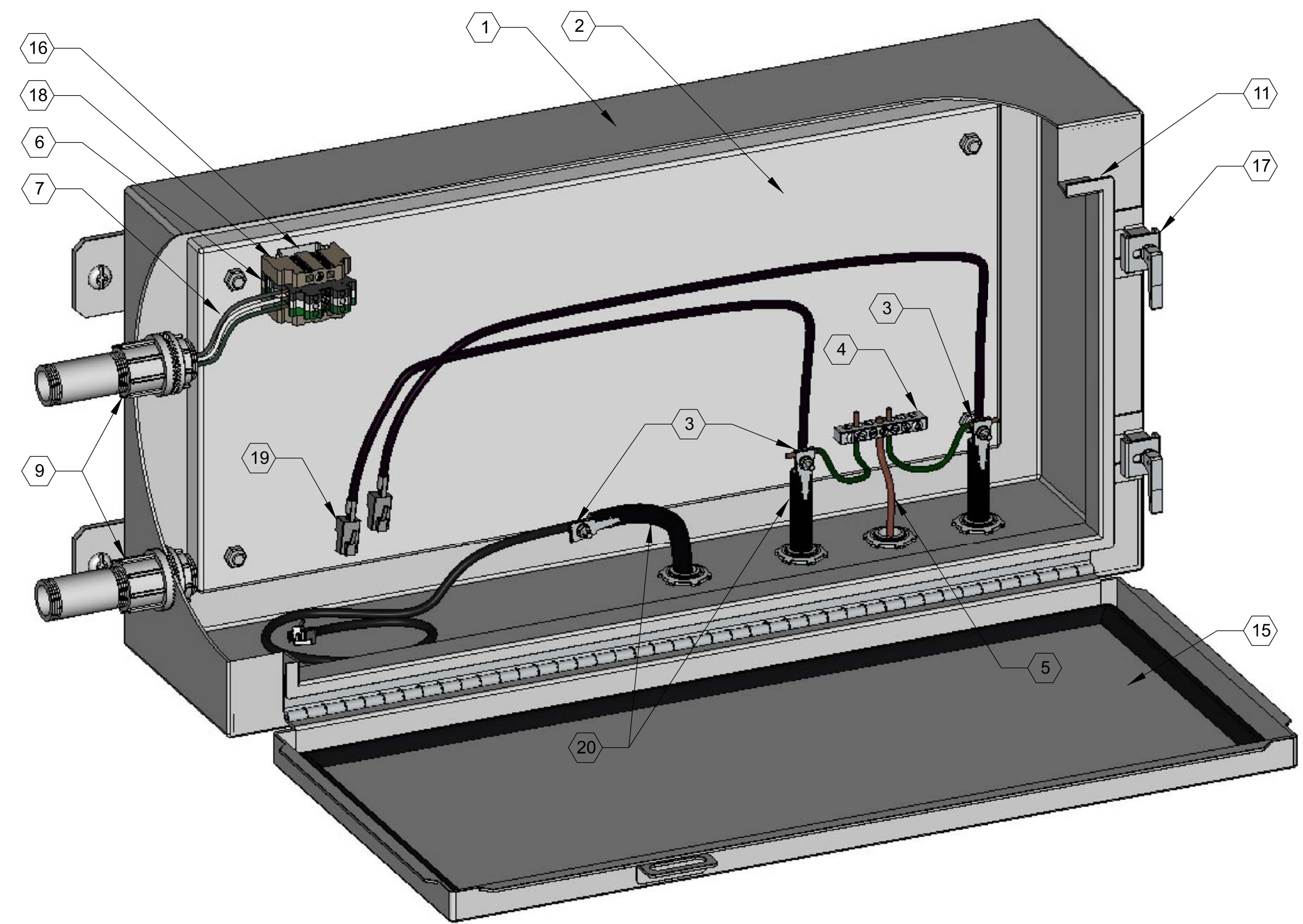
ISSUE DATE:	DATE
SOLICITATION NO.:	
CONTRACT NO.:	
PROJECT NUMBER:	
MARK	DESCRIPTION

DESIGNED BY:	U.S. ARMY CORPS OF ENGINEERS
DRAWN BY:	ENGINEERING & SUPPORT CENTER
CHECKED BY:	HUNTSVILLE, ALABAMA
SUBMITTED BY:	
SIZE:	MARCH 2025

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

ELECTRICAL DETAILS
ARF+ 300M MIT MASTER TARGET DATA PANEL
TWISTED PAIR CABLES

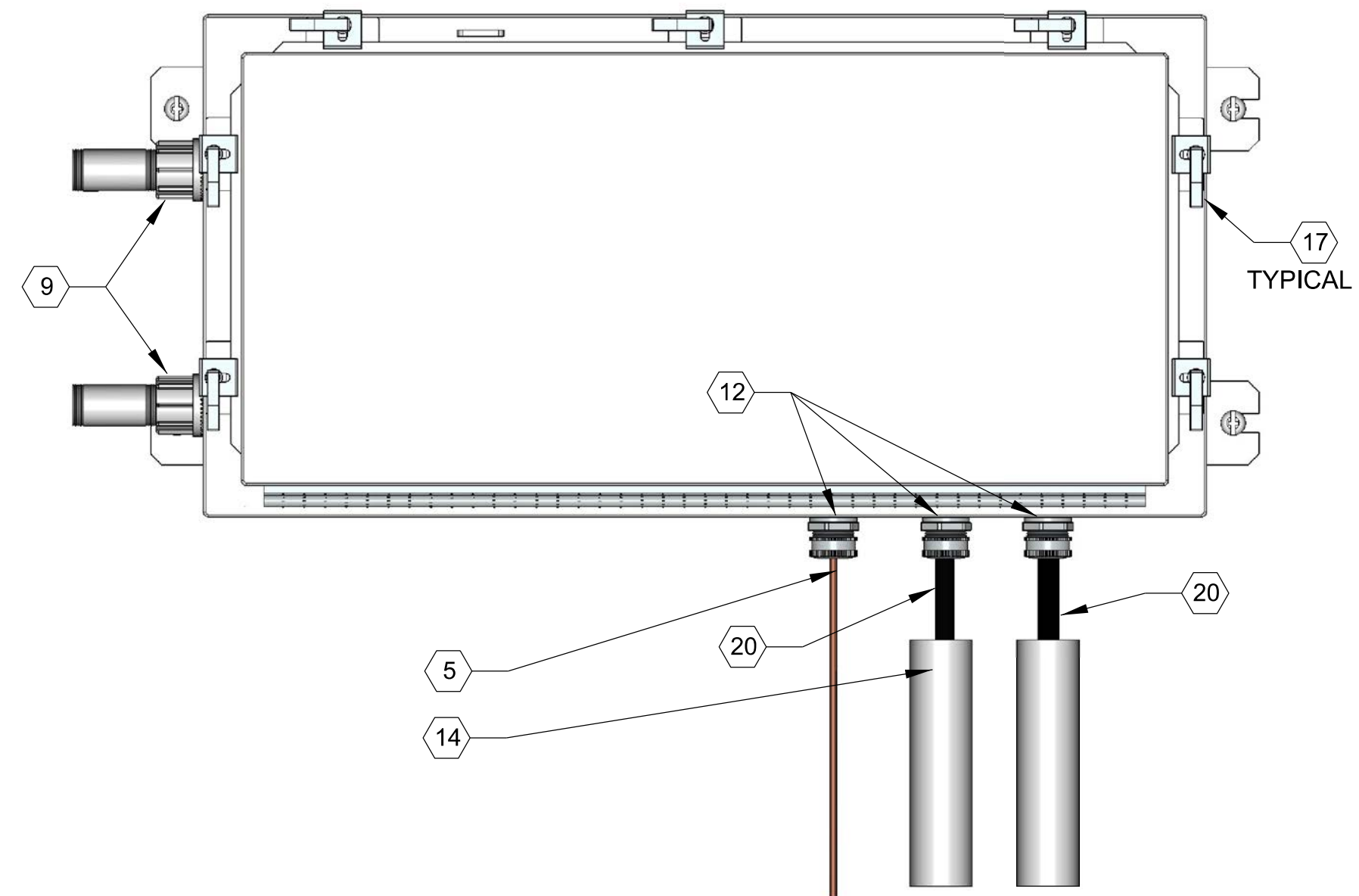
G
F
E
D
C
B
A



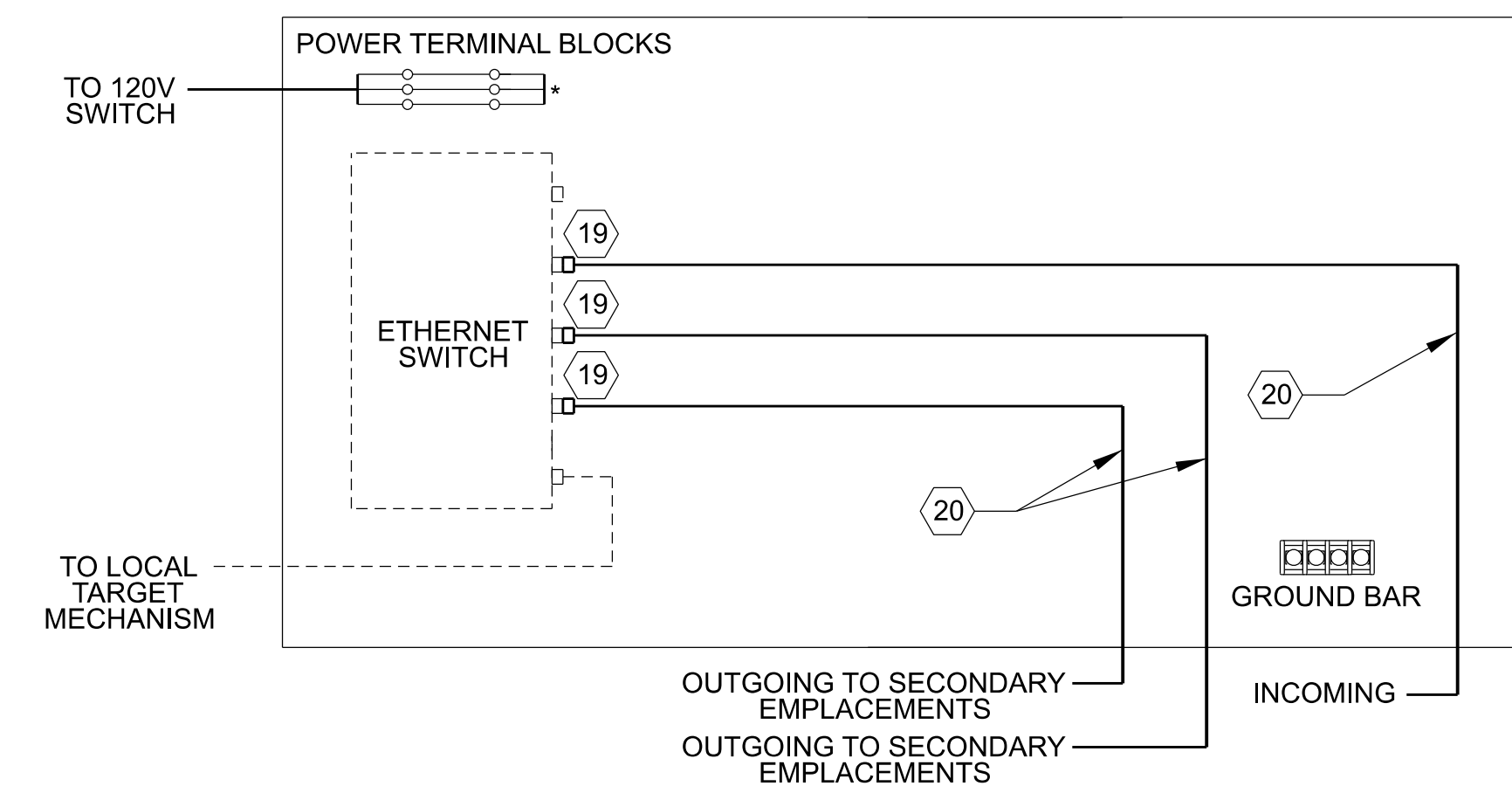
TYPICAL MPMG CLUSTER MASTER TARGET DATA PANEL (MTDP) DETAIL
NOT TO SCALE

KEYED NOTES REPRESENTED WITH # :

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. ENCLOSURE SHALL BE 16 GAUGE MINIMUM GALVANIZED STEEL SHEET METAL WITH WALL MOUNT BRACKETS. ENCLOSURE SHALL CARRY A NEMA 4 RATING AND BE TESTED BY UL OR OTHER APPROVED TESTING AGENCY. (SEE GENERAL NOTE 3.) 2. METAL BACK PLATE TO SECURE COMPONENTS INSIDE ENCLOSURE. 3. METALLIC CABLE SHEATH GROUNDING CLAMP AND GROUNDING CONNECTOR. BOND CABLE ARMOR/SHIELD TO BACK PLATE GROUND BAR. ALL CABLES IN ENCLOSURE MUST BE BONDED TO GROUND. ALL CABLE GROUNDS MAY NOT BE SHOWN IN THIS DETAIL. 4. GROUND BAR - SECURE TO METAL BACK PLATE. BOND ALL GROUND BARS TOGETHER WITH A #6 AWG GROUND CONDUCTOR. GROUND CABLE NOT SHOWN ON THIS DETAIL. 5. #6 AWG BARE COPPER GROUNDING CONDUCTOR. 6. FEED THROUGH TERMINAL BLOCK SECTIONS WITH 2 SCREW TYPE CONNECTIONS FOR TERMINATION OF 120 VOLT POWER FROM SWITCH. SEE DETAIL SHEET ED-11. 7. 2/C #12 WITH GROUND IN CONDUIT FROM SINGLE POLE SINGLE THROW SWITCH FOR 120 VOLT, 1-PHASE SERVICE TO TERMINAL BLOCKS. SEE TARGET EMPLACEMENT ELECTRICAL DETAIL FOR SWITCH LOCATIONS 8. NOT USED. 9. PROVIDE MYERS HUB TYPE FITTING AT CONDUIT PENETRATION. 10. NOT USED. 11. MTDP SHALL HAVE A ROLLED FLANGE AROUND PERIMETER OF OPENING. | <ol style="list-style-type: none"> 12. PROVIDE ONE CABLE SEAL FITTING FOR EACH CABLE. SEE "TYPICAL CABLE SEAL FITTING DETAIL." SHEET E-11. 13. NOT USED. 14. CONDUIT WITH DIRECT BURIAL CATEGORY 6 ARMORED CABLES. SEE TARGET EMPLACEMENT PLAN AND ELEVATION. STUB CONDUIT UP ABOVE SLAB AND SEAL WATERTIGHT WITH DUCT SEALANT - FOAM IS NOT ACCEPTABLE. 15. HINGED COVER WITH CORROSION-RESISTANT STAINLESS STEEL CAPTIVE CLAMPS. HINGE MUST HAVE REMOVABLE PIN. PROVIDE A SEAMLESS FOAM-IN-PLACE GASKET FOR A WATERTIGHT AND DUST TIGHT SEAL. 16. SUPPORT BRACKET FOR BUSBAR TERMINAL BLOCK. PROVIDE ONE SUPPORT BRACKET ON EACH END OF TERMINAL BLOCKS. 17. PROVIDE ENCLOSURE WITH FAST OPERATING CLAMP ASSEMBLY. BOLT TYPE CLAMPS ARE NOT ACCEPTABLE. 18. STANDARD PROFILE DIN RAIL. LENGTH SHALL BE AS REQUIRED TO ACCOMMODATE TERMINAL BLOCK SECTIONS AND SUPPORT BRACKETS. 19. SHIELDED RJ-45 MALE CONNECTOR. 20. DIRECT BURIAL GRADE CATEGORY 6 SHIELDED CABLES. COIL 3' SLACK AND PROVIDE STRAIN RELIEF. BOND CABLE SHIELD TO BACK PLATE GROUNDING LUGS. ALL CABLES MAY NOT BE SHOWN FOR CLARITY. REFER TO SINGLE LINE DIAGRAM FOR CABLE QUANTITIES. |
|---|--|



(MASTER) TARGET DATA PANEL

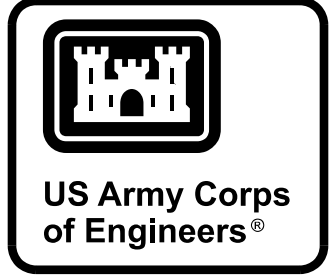


MTDP DATA WIRING SCHEMATIC

- PROVIDED BY COBSTRUCTION CONTRACTOR
- - - PROVIDED BY TARGET VENDOR
- * CONNECTION BY TARGET VENDOR

GENERAL NOTES:

1. PROVIDE CABLE IDENTIFICATION DIRECTORY ON INSIDE OF COVER.
2. LABEL ALL CABLES WITH ADHESIVE POLYETHYLENE WRAP AROUND LASER PRINTED LABELS INDICATING CABLE DESTINATION AND CABLE TYPE.
3. ENCLOSURE SHALL BOTH BE 24"W X 12"H X 6"D FOR SIT CLUSTER CONFIGURATION.
4. ALL COMPONENTS INSTALLED INSIDE MTDP ENCLOSURES SHALL BE SECURED BY MECHANICAL MEANS. ADHESIVES ARE NOT ALLOWED FOR SECURING COMPONENTS INSIDE MTDP ENCLOSURES.
5. CAT 6 DATA CABLES PROVIDE THE MINIMUM PERFORMANCE REQUIREMENTS FOR COPPER DATA CABLES. DATA CABLES THAT EXCEED CAT 6 PERFORMANCE REQUIREMENTS MAY BE USED AS LONG AS ALL PHYSICAL REQUIREMENTS SPECIFIED HEREIN ARE MAINTAINED.

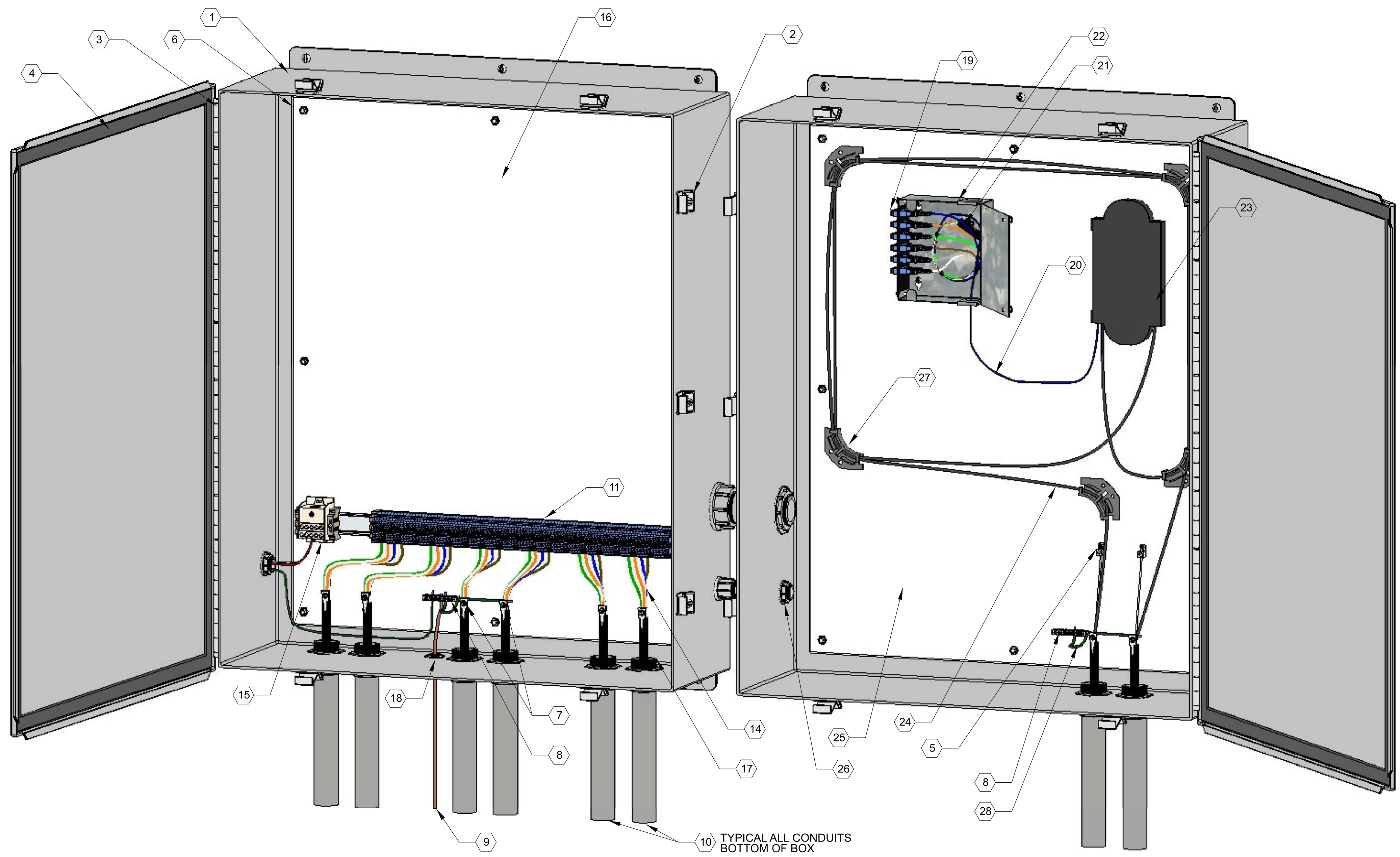


ISSUE DATE:	DATE
SOLICITATION NO.:	
CONTRACT NO.:	
PROJECT NUMBER:	
MARK	DESCRIPTION

DESIGNED BY:	U.S. ARMY CORPS OF ENGINEERS
DRAWN BY:	ENGINEERING & SUPPORT CENTER
CHECKED BY:	HUNTSVILLE, ALABAMA
SUBMITTED BY:	
SIZE:	MARCH 2025

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
ELECTRICAL DETAILS
MPMG CLUSTER MASTER TARGET DATA PANEL
TWISTED PAIR CABLES

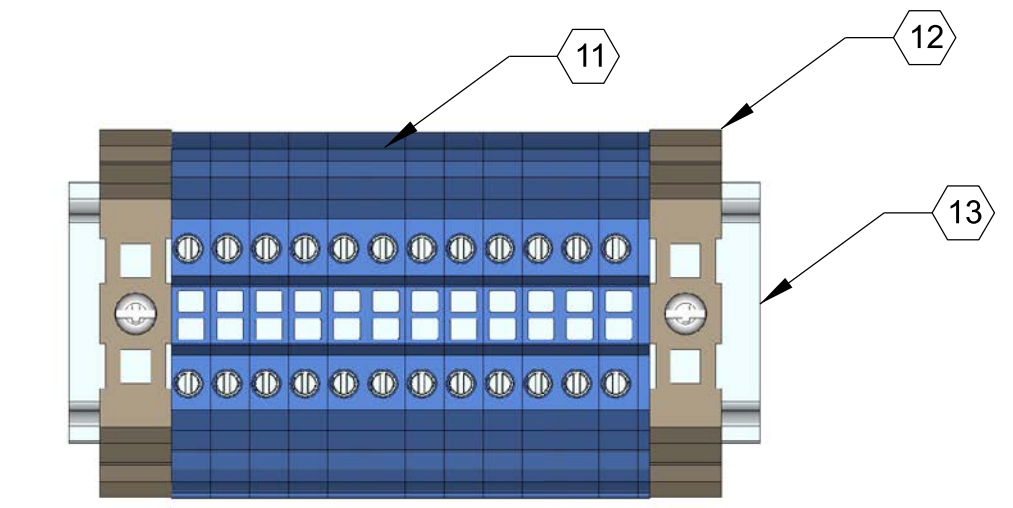
G
F
E
D
C
B
A



DATA CABLE BREAKOUT BOX (DBB) DETAIL
NOT TO SCALE

GENERAL NOTES:

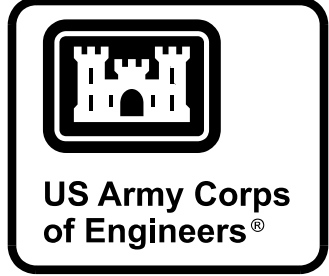
1. DBB SHALL BE 36"H X 30"H X 8"D MINIMUM.
2. NOT ALL WIRE AND CABLE CONTAINED IN THE DBB ARE SHOWN IN THIS DETAIL. SEE THE DOWNRANGE 1-LINE DIAGRAM, E-430, FOR THE NUMBER OF DATA CABLES RUNNING FROM THE DBB TO DOWNRANGE TARGETS.
3. PROVIDE CABLE IDENTIFICATION DIRECTORY ON INSIDE OF COVER.
4. LABEL ALL CABLES WITH ADHESIVE POLYETHYLENE WRAP AROUND LASER PRINTED LABELS INDICATING CABLE DESTINATION AND CABLE TYPE.
5. ALL COMPONENTS INSTALLED INSIDE DBB ENCLOSURES SHALL BE SECURED BY MECHANICAL MEANS. ADHESIVES ARE NOT ALLOWED FOR SECURING COMPONENTS INSIDE DBB ENCLOSURES.



TYPICAL TERMINAL BLOCK SECTION DETAIL
NOT TO SCALE

KEYED NOTES REPRESENTED WITH :

- | | | |
|---|---|---|
| <ol style="list-style-type: none"> 1. ENCLOSURE SHALL BE 16 GAUGE MINIMUM GALVANIZED STEEL SHEET METAL WITH WALL MOUNT BRACKETS. ENCLOSURE SHALL CARRY A NEMA 4 RATING AND BE TESTED BY UL OR OTHER APPROVED TESTING AGENCY. 2. PROVIDE ENCLOSURE WITH CLAMPS ON THREE SIDES OF THE DOOR. NUMBER OF CLAMPS AS REQUIRED BY MANUFACTURER TO MEET NEMA 4 REQUIREMENTS. 3. PROVIDE ENCLOSURE WITH REMOVABLE HEAVY GAUGE STAINLESS STEEL CONTINUOUS HINGE PIN. HINGES SHALL ALLOW THE DOOR TO BE REMOVED FROM THE ENCLOSURE. 4. PROVIDE ENCLOSURE DOOR WITH A SEAMLESS FOAM-IN-PLACE GASKET. ADHESIVE BACK FOAM STYLE GASKETS ARE NOT ACCEPTABLE. 5. CENTRAL MEMBER STRAIN RELIEF BRACKET. 6. METAL BACK PLATE TO SECURE COMPONENTS INSIDE ENCLOSURE. 7. METALLIC CABLE SHEATH GROUNDING CLAMP AND GROUNDING CONNECTOR, BOND CABLE ARMOR/SHIELD TO DBB BACK PLATE GROUNDING BAR. ALL GROUND CABLES NOT SHOWN FOR CLARITY. 8. GROUND BAR - SECURE TO METAL BACK PLATE. 9. #6 AWG BARE COPPER GROUNDING CONDUCTOR. 10. CONDUITS WITH DIRECT BURIAL TWISTED PAIR COPPER ARMORED DATA CABLE. NOT ALL WIRES AND CONDUIT ARE SHOWN. PROVIDE NUMBER AND SIZE OF CONDUITS AS DEFINED IN THE DOWNRANGE DATA 1-LINE DIAGRAM. | <ol style="list-style-type: none"> 11. DIN RAIL MOUNTED FEED-THROUGH TERMINAL BLOCK SECTIONS WITH 2 SCREW TYPE CONNECTIONS. LENGTH OF DIN RAIL SHALL BE AS REQUIRED TO ACCOMMODATE TERMINAL BLOCK SECTIONS AND SUPPORT BRACKETS. TERMINAL BLOCK SECTION SHALL ACCEPT WIRE SIZES OF #24 AWG. PROVIDE NUMBER OF SECTIONS TO ACCOMMODATE ALL TWISTED WIRE PAIRS. SEE DOWNRANGE DATA 1-LINE DIAGRAM FOR NUMBER OF TWISTED PAIRS. 12. SUPPORT BRACKET FOR DATA CABLE TERMINAL BLOCK. PROVIDE ONE SUPPORT BRACKET ON EACH END OF TERMINAL BLOCKS. 13. STANDARD PROFILE DIN RAIL. LENGTH SHALL BE AS REQUIRED TO ACCOMMODATE TERMINAL BLOCK SECTIONS AND SUPPORT BRACKETS. 14. TWISTED WIRE PAIRS FROM DOWNRANGE ARMORED DATA CABLE. NOT ALL WIRES ARE SHOWN. SEE DOWNRANGE DATA 1-LINE DIAGRAM FOR NUMBER OF WIRE PAIRS REQUIRED IN DBB. 15. 20 AMP, 600 VOLT, DIN RAIL MOUNT TERMINAL BLOCK FOR 120 VOLT POWER TO DBB COMPONENTS. 16. MAXIMIZE AVAILABLE SPACE AT THE TOP OF THE DBB BACK PLATE FOR THE MOUNTING OF DBB COMPONENTS BY THE TARGET VENDOR. 17. PROVIDE WEATHERPROOF CONDUIT CONNECTIONS FOR ALL CONDUIT PENETRATIONS INTO THE DBB. CONNECTOR TO BE A MYERS HUB TYPE OR EQUIVALENT. 18. PROVIDE A CABLE SEAL FITTING FOR GROUND CONDUCTOR PENETRATION INTO THE DBB. SEE "TYPICAL CABLE SEAL FITTING DETAIL", SHEET ED-11. | <ol style="list-style-type: none"> 19. INJECTION-MOLDED PLASTIC CONNECTOR 12 PORT PATCH PANEL WITH SC CONNECTORS. 20. FIBER OPTIC CABLE BUFFER TUBES WITH 6-STRANDS OF FIBER, EACH. PROVIDE 2' SLACK EACH END. 21. FIBER OPTIC FAN-OUT KIT OR SPLICE KIT WITH PIGTAILS. 22. WALL MOUNTED SINGLE PANEL HOUSING FOR FIBER OPTIC CABLE TERMINATIONS. FIBER OPTIC BUFFER TUBE SLACK AND FAN OUT KIT SHALL BE CONTAINED WITHIN HOUSING. HOUSING SHALL BE COMPATIBLE WITH 12 PORT PATCH PANEL. 23. FIBER OPTIC SPLICE ENCLOSURE. 24. FIBER OPTIC CABLE BUFFER TUBES. PROVIDE 2' SLACK EACH END. 25. PROVIDE 14" X 10" SPACE FOR INSTALLATION OF TARGET COMMUNICATIONS EQUIPMENT. 26. PROVIDE CONDUIT CHASES FOR POWER AND DATA BETWEEN THE ENCLOSURES TO BE USED BY TARGET VENDOR. PROVIDE 1 1/2" CONDUIT CHASE FOR DATA AND 3/4" CHASE FOR POWER. PROVIDE MYERS TYPE HUBS ON CONDUIT PENETRATIONS. 27. RADIUS CABLE GUIDES. TYPICAL. 28. BOND GROUND BARS IN BOTH ENCLOSURES WITH A #6 AWG COPPER WIRE. CABLE NOT SHOWN ON DETAIL. |
|---|---|---|



MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
DRAWN BY:	SOLICITATION NO.:
CHECKED BY:	CONTRACT NO.:
SUBMITTED BY:	PROJECT NUMBER:
SIZE:	

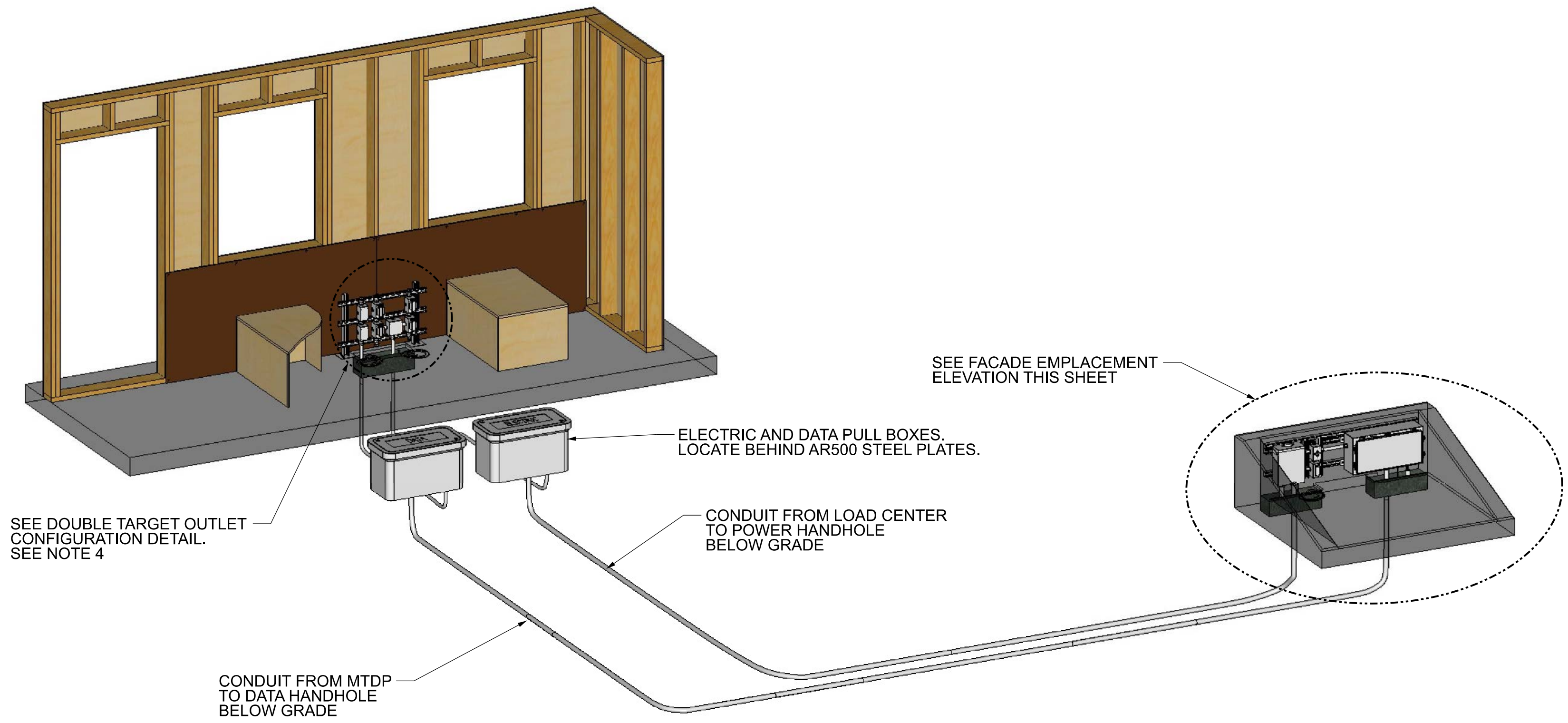
U.S. ARMY CORPS OF ENGINEERS
ENGINEERING & SUPPORT CENTER
HUNTSVILLE, ALABAMA

MARCH 2025

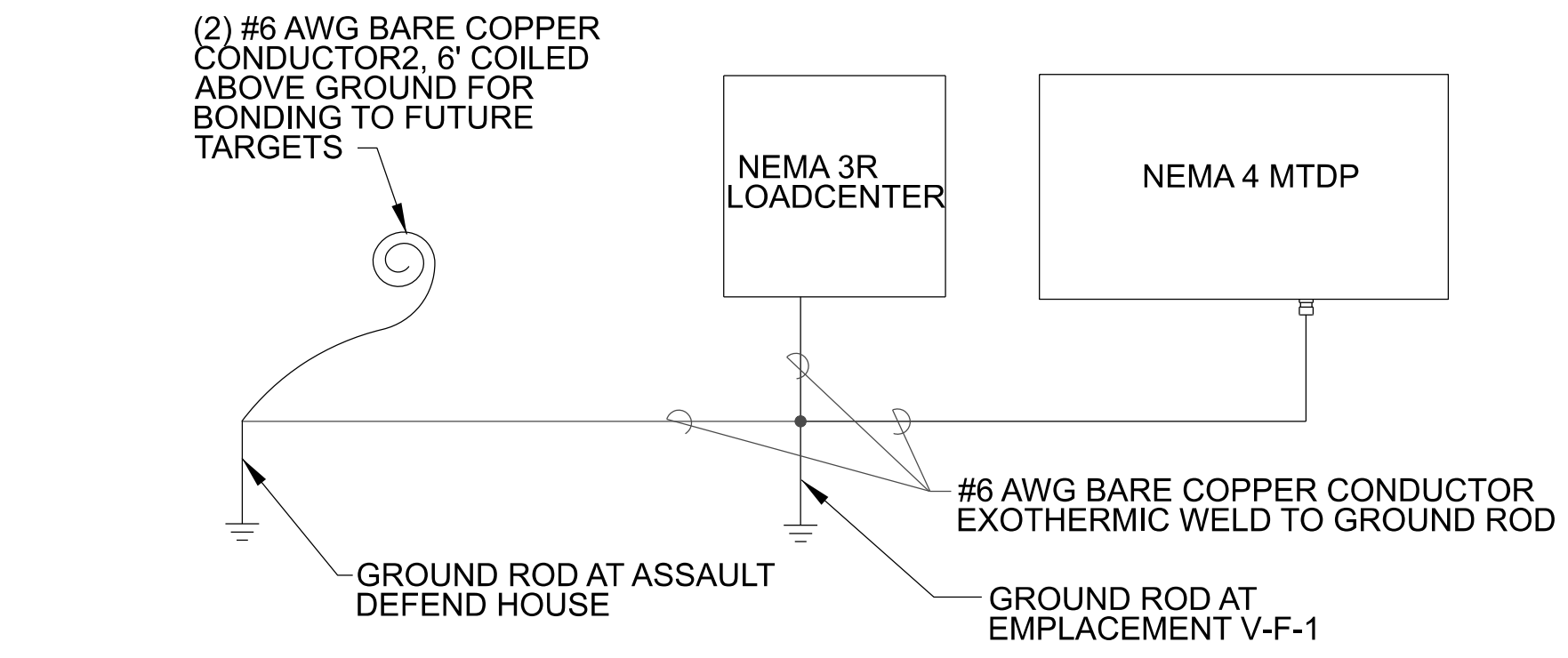
RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

ELECTRICAL DETAILS
DATA CABLE BREAKOUT BOX
WITH FIBER OPTIC CABLE ENCLOSURE

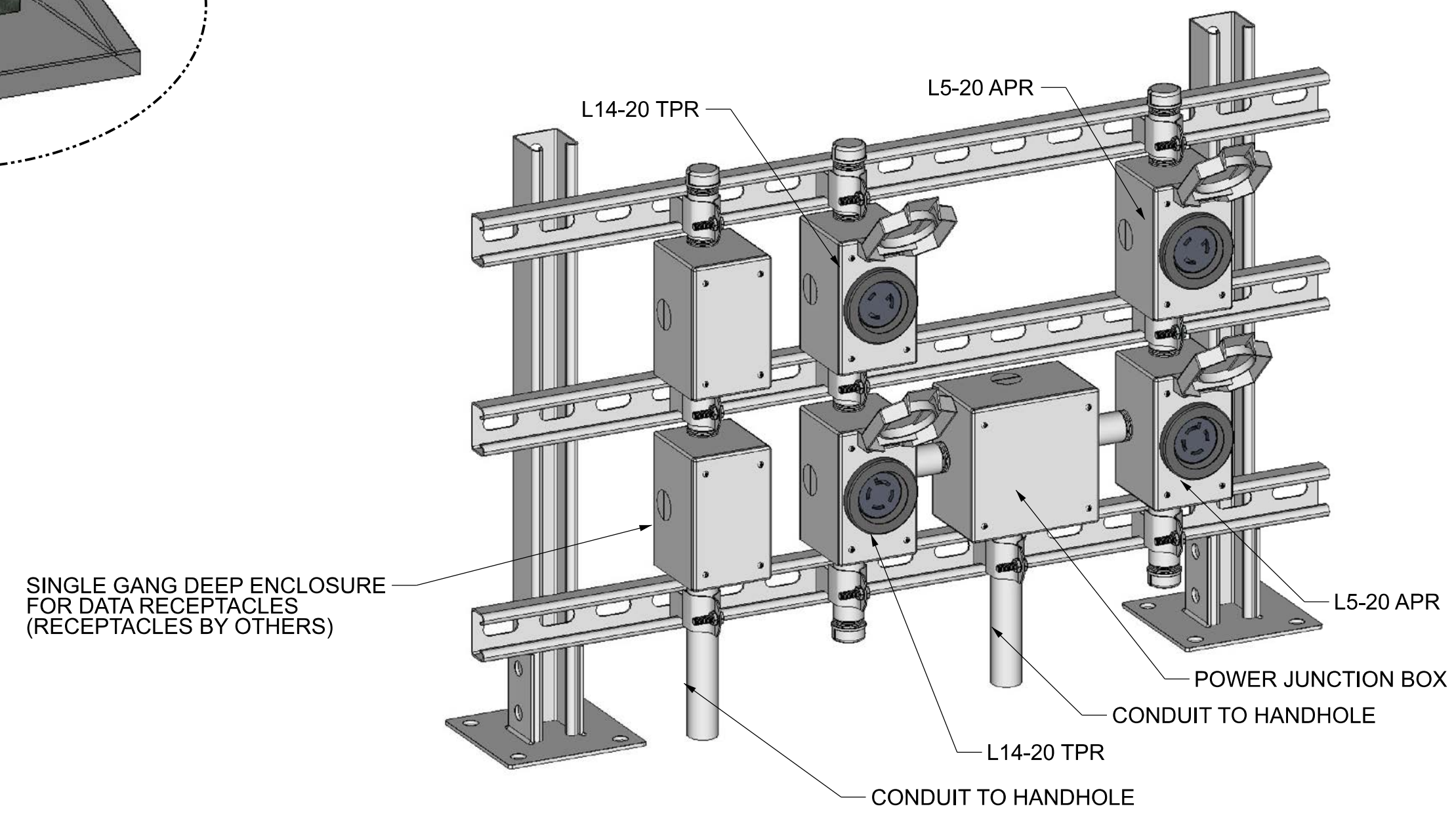
G
F
E
D
C
B
A



ASSAULT DEFEND HOUSE ELECTRICAL PLAN
NOT TO SCALE



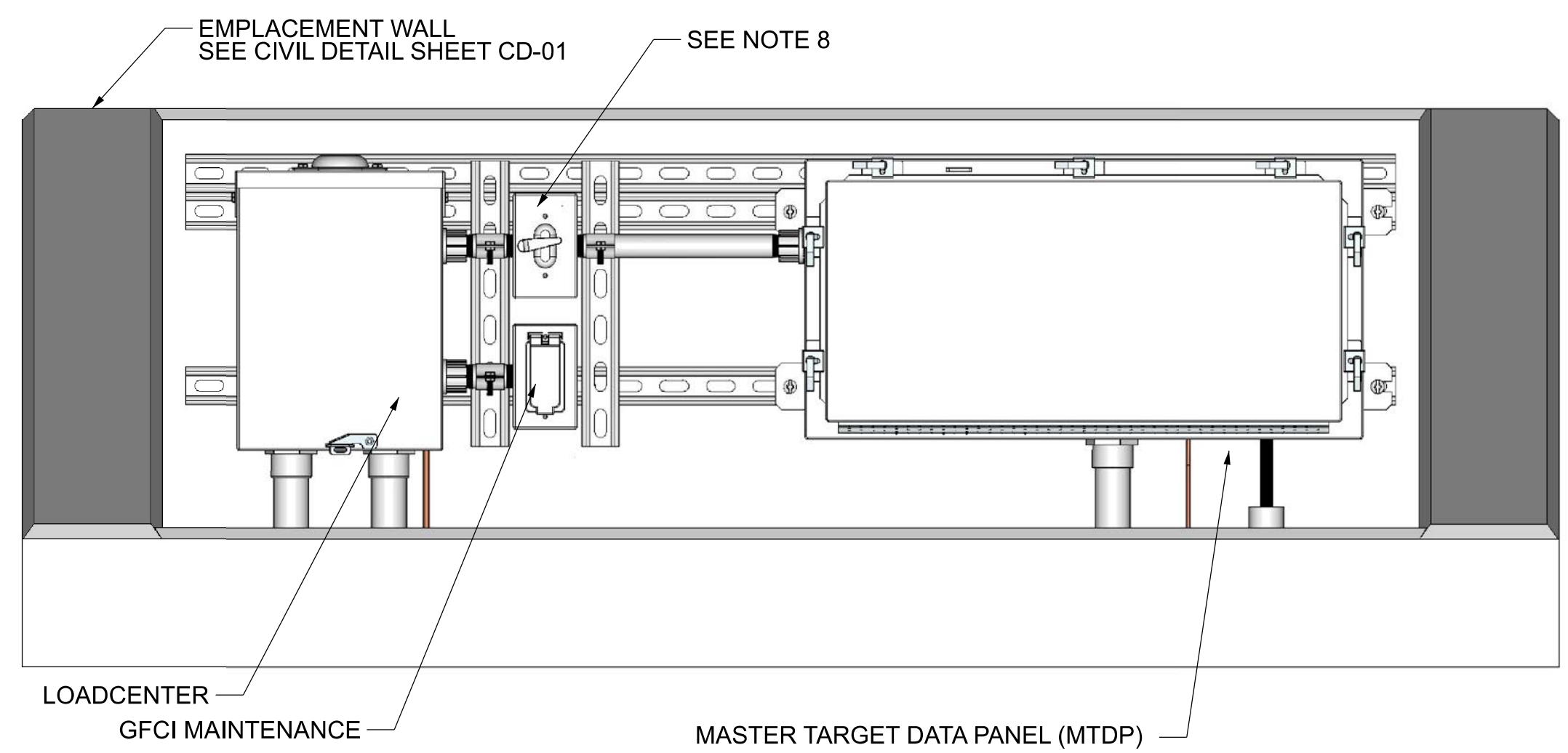
ASSAULT DEFEND HOUSE GROUNDING PLAN
NOT TO SCALE



DOUBLE TARGET OUTLET CONFIGURATION
NOT TO SCALE

- NOTES:
- CONNECT EMPLACEMENT, HAND HOLES AND POWER AND DATA OUTLETS WITH UNDERGROUND CONDUIT AS SHOWN. INSTALL EIGHT-CIRCUIT LOAD CENTER; ONE 12"X24" MTDP IN THE EMPLACEMENT AS SHOWN.
 - ALL DATA CABLES ROUTED TO THE ASSAULT DEFEND HOUSE AND OTHER EMPLACEMENTS SHALL BE TERMINATED INSIDE THE MTDP IN THE EMPLACEMENT.
 - SEE SHEET ED-06 FOR MTDP REQUIREMENTS.
 - LEAVE A 6 FOOT #6 AWG BARE COPPER COIL AT EACH TARGET LOCATION FOR FUTURE CONNECTION TO TARGET MECHANISM. COPPER COIL MUST BE ELECTRICALLY CONTINUOUS TO GROUNDING ELECTRODE IN WSIT EMPLACEMENT BEHIND ASSAULT DEFEND HOUSE. GROUNDING PATHWAY MUST BE VIA #6 AWG COPPER GROUND CABLE.
 - ALL L14-20R AND L5-20R TARGET OUTLETS SHALL BE PROVIDED IN WET LOCATION COVERS AS SHOWN IN RECEPTACLE WET LOCATION COVER DETAIL ON SHEET ED-11.
 - PROVIDE A MALE RJ45 CONNECTOR ON THE END OF EACH CAT 6 OR BETTER DATA CABLE INSTALLED IN OUTLET BOXES. PROVIDE BOXES WITH BLANK FACE PLATE. (GOVERNMENT WILL PROVIDE AND INSTALL DATA CONNECTOR IN OUTLET FACEPLATE). PROVIDE 6" TO 12" OF CABLE BEHIND FACE PLATE TO ALLOW FOR CONNECTION OF DATA CABLE TO FUTURE DATA CONNECTOR.
 - PROVIDE GROUNDING FOR FACADE EMPLACEMENT DETAIL AS SHOWN IN EMPLACEMENT GROUNDING DETAIL.
 - POWER TO POWER TERMINAL BLOCKS (PTB) IN MTDP SHALL BE ROUTED THROUGH SINGLE POLE SINGLE THROW SWITCH.

PANEL BOARD: ADH		LOCATION: XXXXXXXX		MOUNTED: SURFACE		FEED: BOTTOM									
100 MINIMUM		MAIN LUGS ONLY		ASYM A.L.C. MIN.:10,000		RATING: NEMA 3R									
VOLTAGE: 240/120		PHASE: 1		WIRE: 3		RATING: NEMA 3R									
LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	A	B	CKT. NO.	CKT. NO.	A	B	WIRE SIZE	TRIP AMPS	NO. POLES	LOAD SERVED		
SURGE ARRESTOR	2	---	---	---	---	1	2	960	960	12	20	2	SIT (2 NEMA L14-20R, 2 NEMA L5-20R)		
FEED THRU PROVISIONS	2	---	---	---	---	5	6	50	---	12	20	1	PTB AND MR		
				0	0			1010	960			1	SPARE		
TOTAL VA PHASE: A: 1010				TOTAL VA PHASE: B: 960				TOTAL CONNECTED WATTAGE: 1970				95% DEMAND WATTAGE: xxx			
SUPPLIED FROM: TRSF-XX				TOTAL DEMAND AMPS: xx											



ASSAULT DEFEND HOUSE EMPLACEMENT ELEVATION
NOT TO SCALE

US Army Corps of Engineers®

ISSUE DATE:	DATE
DESIGNED BY:	MARK
DRAWN BY:	DESCRIPTION
CHECKED BY:	
SUBMITTED BY:	
SIZE:	

U.S. ARMY CORPS OF ENGINEERS
ENGINEERING & SUPPORT CENTER
HUNTSVILLE, ALABAMA

MARCH 2025

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

ELECTRICAL DETAILS
FACADE

SHEET ID
ADH-E01

