

REPAIR SOUTH POST RESERVOIRS

Fort McCoy, Wisconsin

PHASE OF WORK DESCRIPTION:

- PHASE 1: CONSTRUCT NEW TANK 5025
- THE TWO EXISTING TANKS WILL REMAIN IN SERVICE DURING THE CONSTRUCTION OF NEW TANK 5025.
 - TEMPORARY CONSTRUCTION SITE FENCING SHALL BE INSTALLED PRIOR TO REMOVAL OF EXISTING FENCING SO THAT A SECURE PERIMETER IS PRESENT AT ALL TIMES AROUND THE EXISTING TANKS AND NEW TANK CONSTRUCTION.
 - A TEMPORARY OUTAGE SHALL BE SCHEDULED TO ALLOW FOR CONNECTION OF NEW WATER MAIN TO EXISTING WATER MAIN BETWEEN WELL NO. 31 AND THE EXISTING TANKS.
 - PRIOR TO NEW TANK 5025 BEING PUT ONLINE, THE TANK DRAIN STRUCTURE SHALL BE COMPLETELY CONSTRUCTED AND CONNECTED TO NEW TANK 5025.
 - SITE SHALL BE TEMPORARILY GRADED THROUGH THE GRAVEL LAYER TO DRAIN AWAY FROM THE TANKS WITH NO STANDING WATER WITHIN 50 FEET OF ANY OF THE TANKS.
 - NEW TANK 5025 SHALL BE TESTED AND FULLY OPERATIONAL PRIOR TO THE REMOVAL OF EXISTING TANK 5024.

PHASE 2A: REMOVE EXISTING TANK 5024

- REMOVE EXISTING TANK 5024 INCLUDING WATER MAIN TO INDICATED LOCATION ON SHEET C1.1.
- REMOVE RIP RAP FOR EXISTING TANK 5024 OVERFLOW AND DRAIN DISCHARGES; MAINTAIN RIP RAP FOR EXISTING TANK 5025 OVERFLOW AND DRAIN DISCHARGES.

PHASE 2B: CONSTRUCT NEW TANK 5024

- NEW TANK 5025 AND EXISTING TANK 5025 WILL REMAIN IN SERVICE DURING THE CONSTRUCTION OF NEW TANK 5024.
- TEMPORARY CONSTRUCTION SITE FENCING SHALL BE INSTALLED PRIOR TO REMOVAL OF EXISTING FENCING SO THAT A SECURE PERIMETER IS PRESENT AT ALL TIMES AROUND THE EXISTING TANKS AND NEW TANK CONSTRUCTION.
- FOLLOWING THE CONSTRUCTION OF NEW TANK 5024, THE SITE SHALL BE FINISH GRADED AND THE CONCRETE PAD SHALL BE POURED.

PHASE 3: REMOVE EXISTING TANK 5025

- REMOVE EXISTING TANK 5025 INCLUDING WATER MAIN TO INDICATED LOCATION ON SHEET C1.2.
- REMOVE RIP RAP FOR EXISTING TANK 2025 OVERFLOW AND DRAIN DISCHARGES.

GENERAL NOTES:

- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS, LICENSES AND CERTIFICATIONS NEEDED TO PERFORM THE WORK AT THE CONTRACTOR'S EXPENSE.
- ALL EQUIPMENT INSTALLATIONS MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA AND RECOMMENDATIONS.
- CONTRACTOR MUST PERFORM ALL WORK IN ACCORDANCE WITH THE MOST RECENT EDITION OF EM 385-1-1 SAFETY AND HEALTH REQUIREMENTS MANUAL (2024 EDITION)
- CONTRACTOR SHALL OBTAIN SPECIFIC UTILITY REQUIREMENTS FOR EACH UTILITY. EACH UTILITY MAY REQUIRE ADDITIONAL ADVANCE NOTIFICATION.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN UTILITY LOCATES PRIOR TO THE START OF EXCAVATION OPERATIONS AND MAINTAIN UTILITY MARKINGS DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING SITE CONDITIONS. GOVERNMENT INFORMATION, DATA AND DRAWINGS ARE FOR REFERENCE ONLY, NOT FOR CONSTRUCTION, AND DO NOT CONTAIN ALL EXISTING UTILITIES AND SITE CONDITIONS. CONTRACTOR MUST NOT REPLY UPON GOVERNMENT INFORMATION, DATA AND DRAWINGS AS SUBSTITUTE FOR CONTRACTOR VERIFICATION.
- SCALES SHOWN APPLY ONLY WHEN DRAWINGS ARE PRINTED ON 22" X 34" PAPER. SCALES ARE HALF SIZED WHEN PRINTED ON 11" X 17" PAPER.
- ALL MATERIALS, LABOR, EQUIPMENT AND WORK MUST BE IN ACCORDANCE WITH SPECIFICATIONS, STANDARDIZED CONSTRUCTION METHODS AND PRACTICES, MANUFACTURER'S PUBLISHED DATA AND RECOMMENDATIONS, AND ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, STATUES, AND CODES.
- THE CONTRACTOR MUST PROVIDE WRITTEN NOTIFICATION TO COR WITHIN THREE DAYS OF DISCOVERING DISCREPANCIES BETWEEN EXISTING SITE CONDITIONS, DRAWINGS, SPECIFICATIONS, AND CONTRACT DOCUMENTS. THE CONTRACTOR MUST PROVIDE A WRITTEN REQUEST FOR CLARIFICATION TO ADDRESS EACH DISCREPANCY.
- THE GOVERNMENT IS NOT RESPONSIBLE FOR THE CONTRACTOR'S CONSTRUCTION PRACTICES, MEANS AND METHODS. THE CONTRACTOR MUST PROVIDE A WRITTEN REQUEST TO COR A MINIMUM OF SEVEN CALENDAR DAYS PRIOR TO THE START OF CONSTRUCTION FOR APPROVAL OF ANY DEVIATIONS FROM STANDARDIZED CONSTRUCTION PRACTICES, MEANS AND METHODS WHETHER STATED OR IMPLIED ON DRAWINGS AND IN SPECIFICATIONS.
- EQUIPMENT, MATERIALS AND MANUFACTURERS LISTED IN THESE DRAWINGS MAY BE SUBSTITUTED FOR EQUAL PRODUCTS IN COMPLIANCE WITH SPECIFICATIONS AND FEDERAL PURCHASING REQUIREMENTS.

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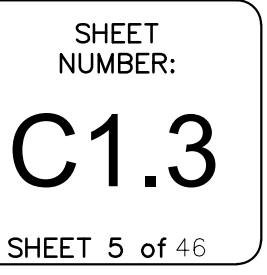
FORT MCCOY
REPAIR SOUTH POST
RESERVOIRS
FORT MCCOY, WISCONSIN

 FORT MCCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE. FORT MCCOY, WI 54606	Designed by: JUN	Date: 3/5/2026	COVER SHEET / INDEX	
	Dwn by: KAK	Ckd by: MN		Rev.
	Reviewed by:			Work Order No 1612
	Submitted by: DPW			Project Number 1503

SHEET
NUMBER:
G0.1
SHEET 1 of 46



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- 1
- REMOVALS PLAN - PHASE 1
- Scale: 1:20

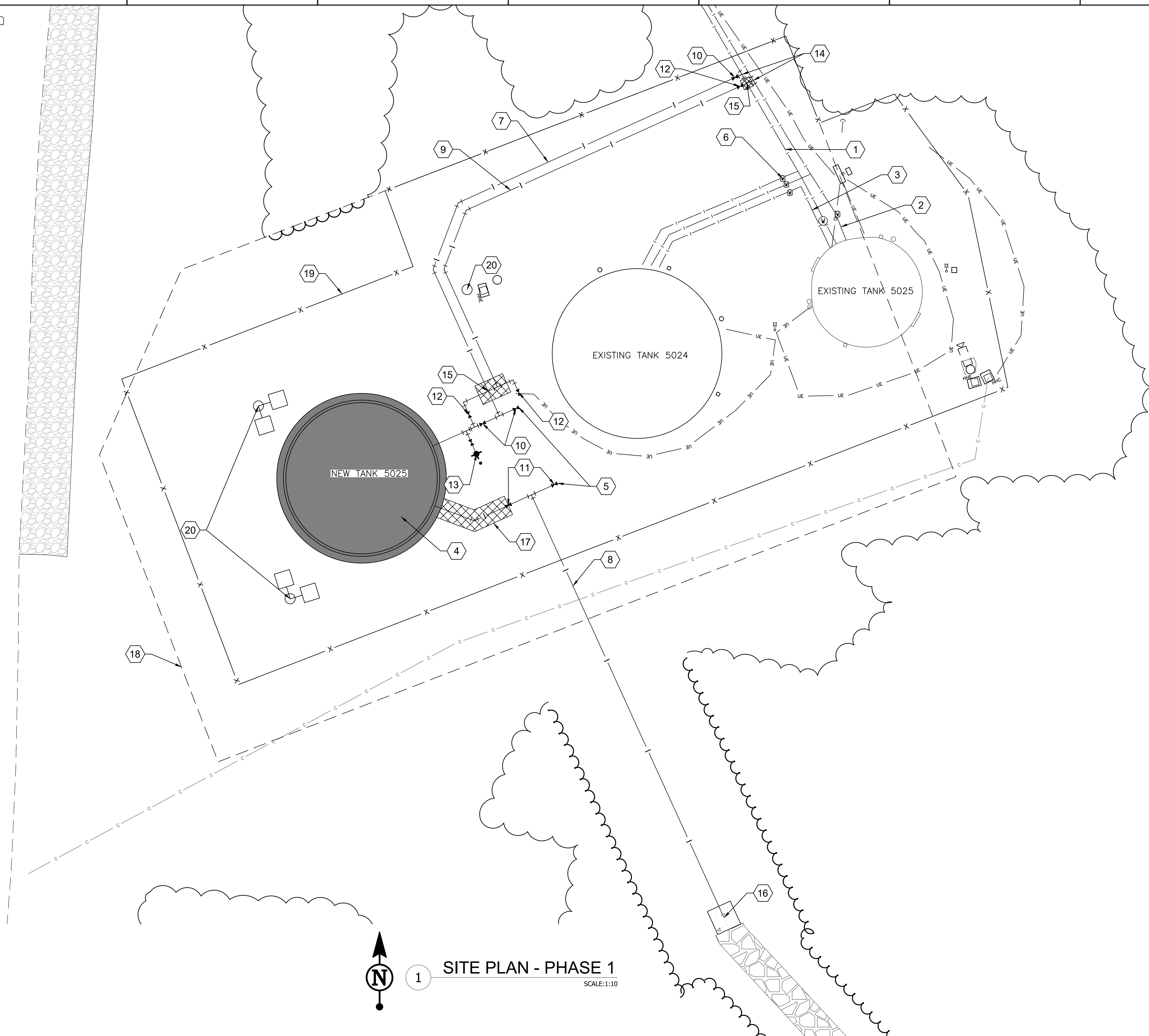




1. 8-INCH INLET/OUTLET
2. 4-INCH RECIRCULATION INLET
3. 4-INCH RECIRCULATION LINE BETWEEN EXISTING TANKS
(EXACT LOCATION UNKNOWN)
4. CONSTRUCT NEW 100,000 GALLON RESERVOIR
5. INSTALL CAPS AND MARK LOCATION WITH BLUE T-POST.
6. COORDINATE WITH OWNER TO CLOSE VALVES WHEN NEW
TANK 5025 IS PLACED ONLINE
7. 8-INCH PVC C900
8. 6-INCH PVC C900
9. 4-INCH PVC C900
10. 8-INCH GATE VALVE
11. 6-INCH GATE VALVE
12. 4-INCH GATE VALVE
13. HYDRANT AND 6-INCH VALVE PROTECTED WITH BOLLARD
14. CONTRACTOR TO VERIFY EXISTING MATERIAL TYPE PRIOR TO
CONNECTION
- 14.1. 8-INCH CONNECTION VIA WET TAP
- 14.2. 8-INCH CONNECTION VIA CUT-IN
15. 4-INCH PIPE TO CROSS OVER 8-INCH PIPE WITH
INSULATION
16. TANK DRAIN STRUCTURE (C5.4/1)
17. INSULATION
18. 20' CLEAR ZONE FROM PROPOSED FENCE
19. TEMPORARY CONSTRUCTION FENCE
20. PROPOSED LIGHT/UTILITY POLE (SEE ELECTRICAL PLANS)

GENERAL NOTES:

1. PROVIDE A MINIMUM OF 7' OF COVER OVER WATER LINES OR PROVIDE INSULATION.

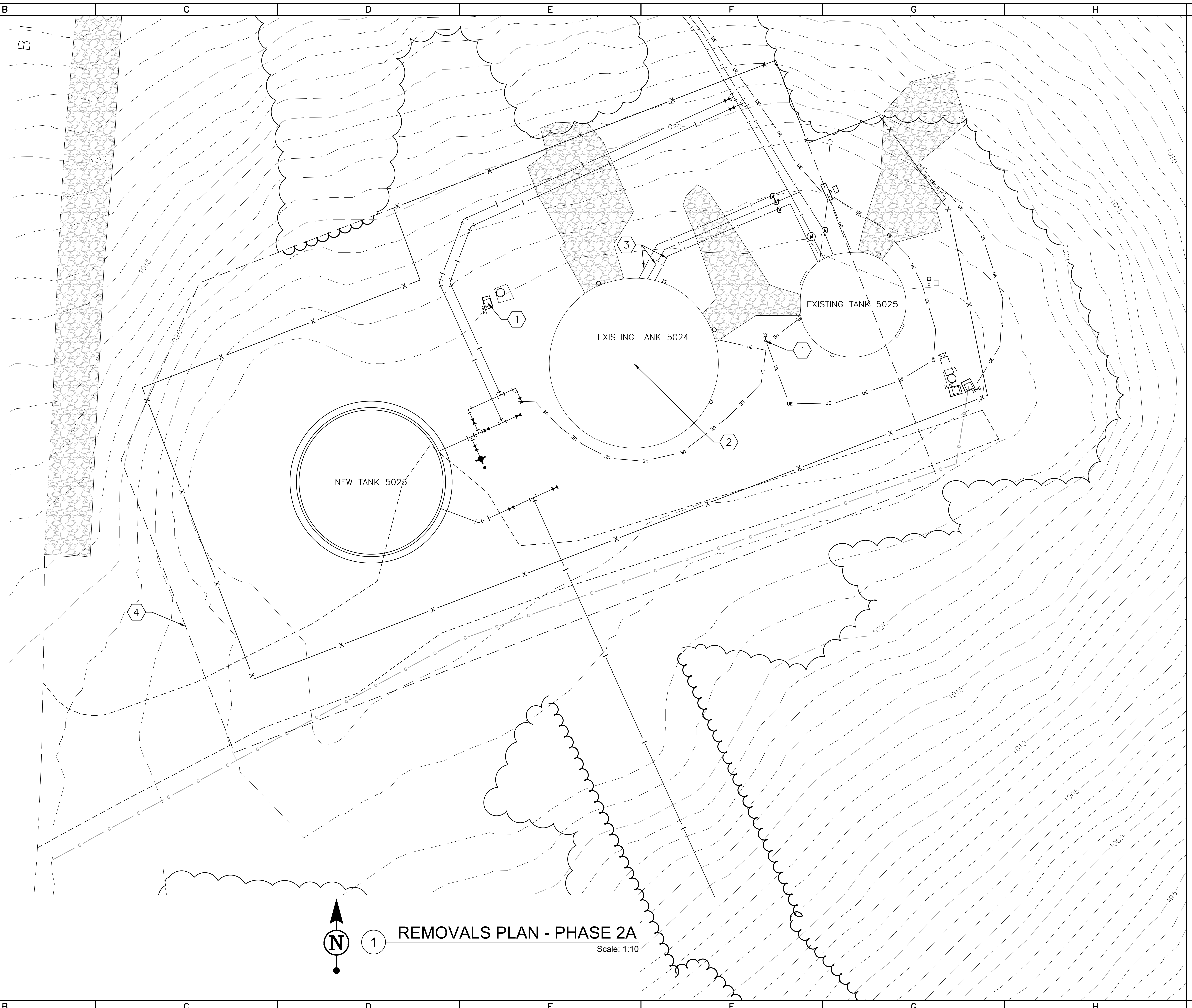
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FORT McCOY
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RESERVOIRS
FORT McCOY, WISCONSIN

	FORT MCCOY DIRECTORATE OF PUBLIC WORKS		Designed by:	SFA	Date:	3/5/2026
	2171 SOUTH 8TH AVE FORT MCCOY, WI 54656		Dwn by:	SFA	Rev.	
			Old by:	EDH	Reviewed by:	Project Number
					DMC	1612
					Submitted by:	Project Number
					DPW	1612

SHEET
NUMBER:
C1.4
SHEET 6 of 46

1. REMOVE ELECTRIC FIXTURE (SEE ELECTRICAL PLANS)
2. REMOVE EXISTING TANK 5024 ONCE NEW TANK 5025 IS ONLINE
3. REMOVE WATER MAIN TO VALVES AND CAP UPON REMOVAL OF EXISTING TANK 5024
4. 20' CLEAR ZONE FROM PROPOSED FENCE

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RESERVOIRS
FORT MCCOY, WISCONSIN

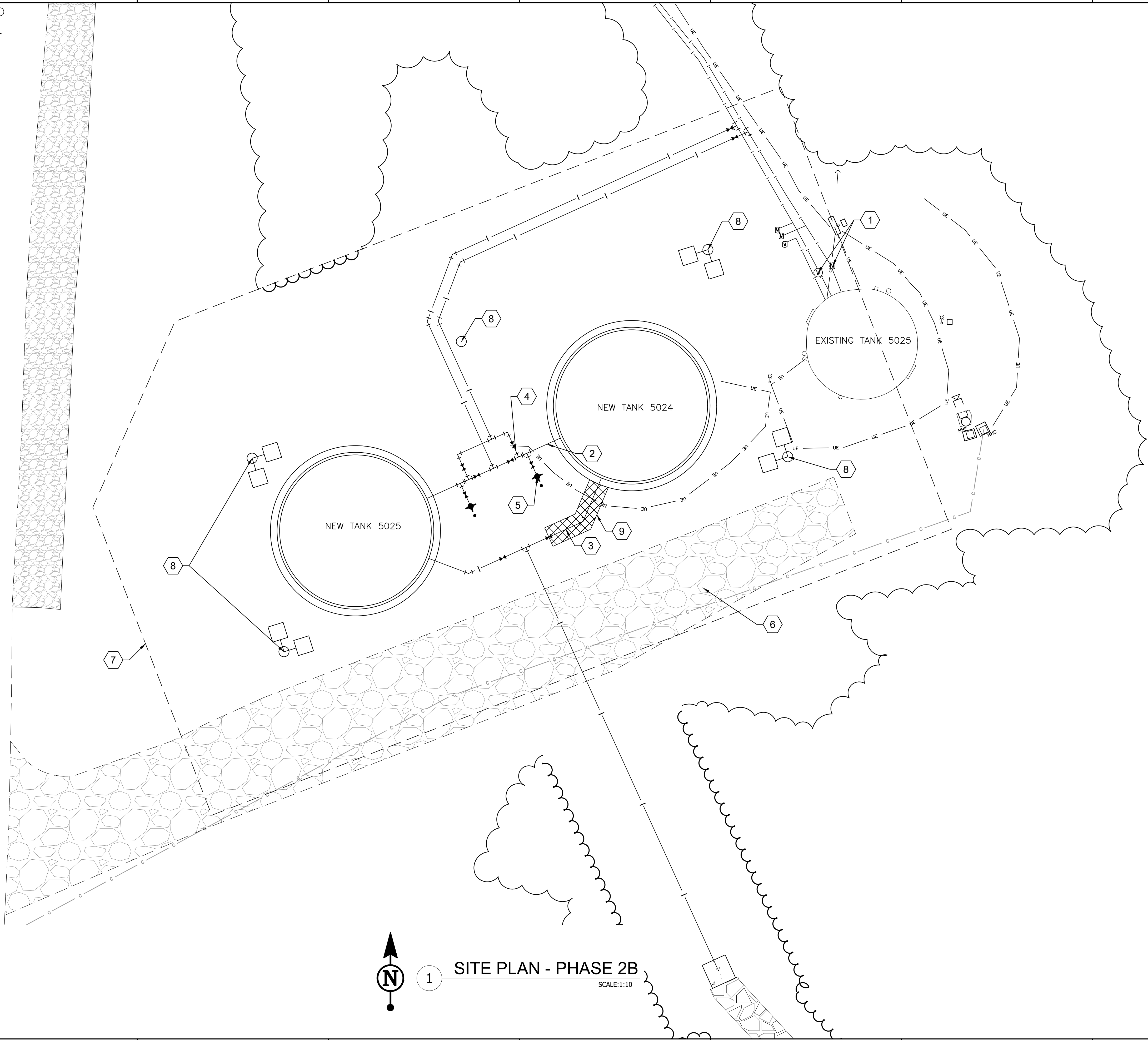
	DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE FORT MC COY, WI 54556	SFA	Dwn by:	Gld by: Rev.	3/5/2026
		SFA	EDH	Reviewed by:	Project Order No 1612 Submitted by: Project Number 1503
REMOVALS PLAN PHASE 2A					

SHEET
NUMBER:
C1.6
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- KEYNOTES:
1. COORDINATE WITH COR TO CLOSE VALVES AND REMOVE TO NEW TEES WHEN TANK 5025 IS PLACED ONLINE
 2. 8-INCH PVC C900
 3. 6-INCH PVC C900
 4. 4-INCH PVC C900
 5. HYDRANT AND 6" GATE VALVE PROTECTED WITH BOLLARD
 6. GRAVEL ACCESS DRIVE (C5.2/8)
 7. 20' CLEAR ZONE FROM PROPOSED FENCE
 8. PROPOSED LIGHT/UTILITY POLE (SEE ELECTRICAL PLANS)
 9. INSULATION

- GENERAL NOTES:
1. PROVIDE A MINIMUM OF 7" OF COVER OVER WATER LINES OR PROVIDE INSULATION.



1 SITE PLAN - PHASE 2B
SCALE:1:10



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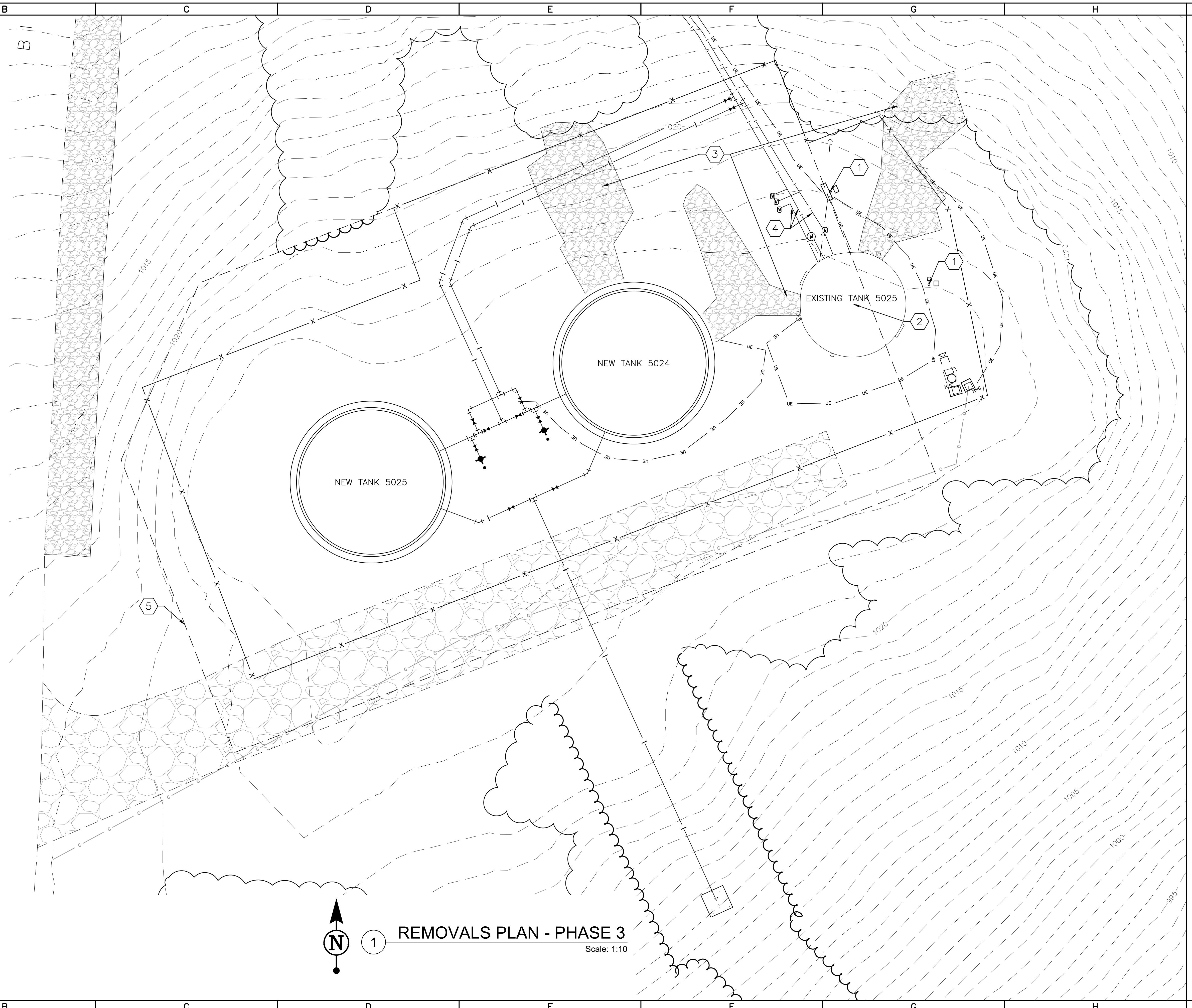


FORT MCCOY
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DESIGNED BY	DATE	DESIGNED BY	DATE
SFA	3/6/2026	SFA	3/6/2026
OWN BY	OWN BY	OWN BY	OWN BY
SFA	EDH	SFA	EDH
REVIEWED BY	REVIEWED BY	REVIEWED BY	REVIEWED BY
DMC	DMC	DMC	DMC
SUBMITTED BY	SUBMITTED BY	SUBMITTED BY	SUBMITTED BY
DPW	DPW	DPW	DPW

SHEET
NUMBER:
C1.7
SHEET 9 of 46

1. REMOVE ELECTRIC FIXTURE (SEE ELECTRICAL PLANS)
2. REMOVE EXISTING TANK 5025 ONCE NEW TANK 5024 AND NEW TANK 5025 ARE ONLINE
3. REMOVE AND SALVAGE RIPRAP TO BE USED AT THE TANK DRAIN STRUCTURE DISCHARGE AND BACKFILL TO MATCH SURROUNDING GRADE
4. REMOVE WATER MAIN, VALVES, AND MANHOLE TO NEW TEE AND CAP ONCE NEW TANKS ARE BOTH ONLINE. COMPLETELY REMOVE RECIRCULATION MAIN AND VALVE BETWEEN EXISTING TANKS.
5. 20' CLEAR ZONE FROM PROPOSED FENCE



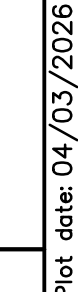
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FORT MCCOY
REPAIR SOUTH POST
RESERVOIRS
FORT MCCOY, WISCONSIN

	REMOVALS PLAN PHASE 3	Reviewed by:	OW by: Rev.	3/5/2026
		DMC	SFA EDH	
		Submitted by:	Project Number	
		DPW	1503	

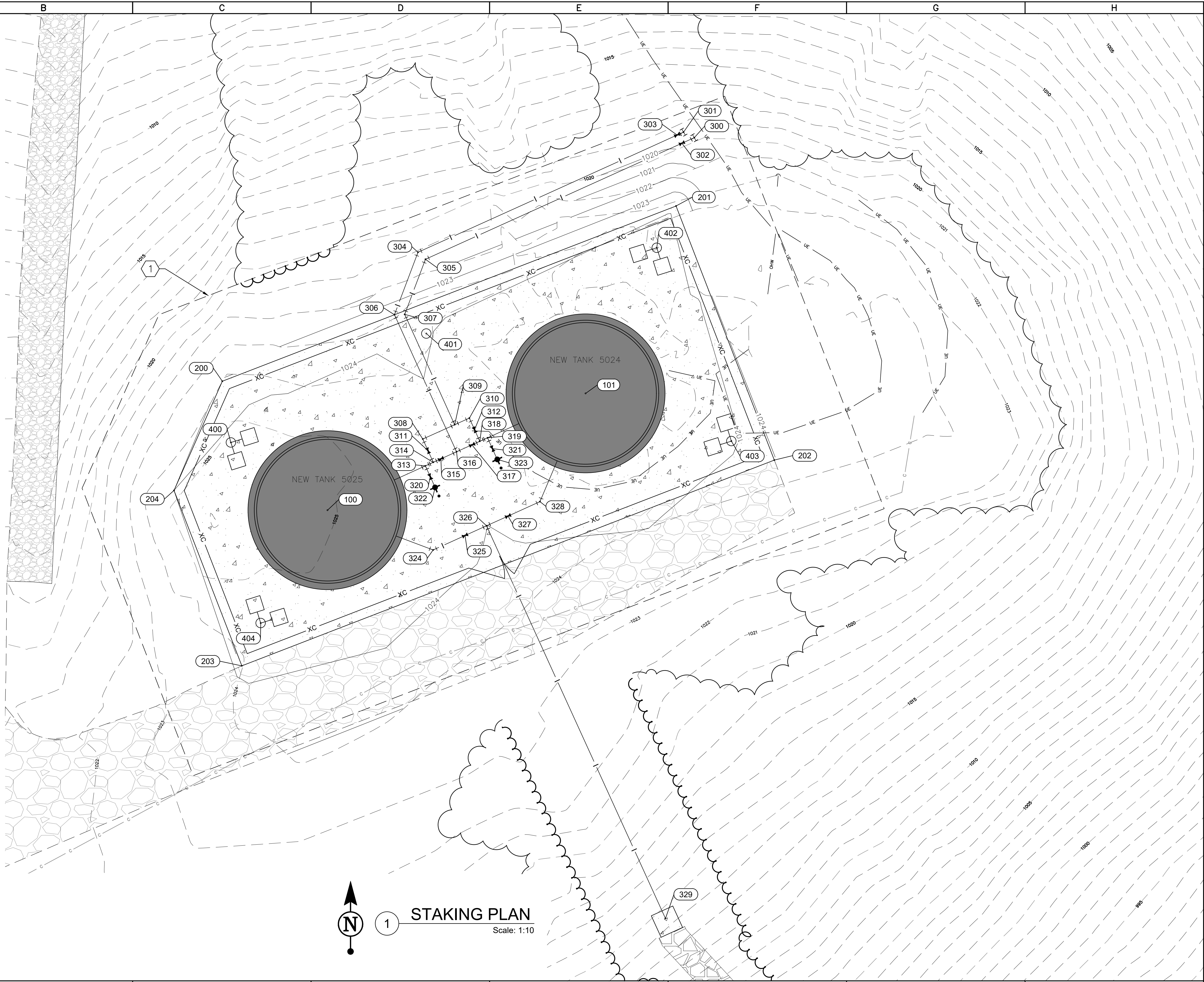
SHEET
NUMBER:
C1.8
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1. 20' CLEAR ZONE FROM PROPOSED FENCE

POINT	NORTHING	EASTING	DESCRIPTION
100	389553.3988	649276.6030	TANK CENTER
101	389578.1417	649331.2636	TANK CENTER
200	389580.7195	649254.3300	CONCRETE SLAB
201	389617.8642	649350.4295	CONCRETE SLAB
202	389564.0079	649371.2462	CONCRETE SLAB
203	389520.4105	649258.4525	CONCRETE SLAB
204	389557.5726	649244.0885	CONCRETE SLAB
300	389632.3466	649354.2948	WATER FITTING
301	389633.5256	649352.0254	WATER FITTING
302	389631.1633	649351.6688	WATER FITTING
303	389632.9027	649350.6614	WATER FITTING
304	389608.0551	649295.7693	WATER FITTING
305	389606.5747	649297.3488	WATER FITTING
306	389594.8212	649290.7830	WATER FITTING
307	389594.8912	649292.9467	WATER FITTING
308	389568.4740	649296.7875	WATER FITTING
309	389571.5115	649303.5456	WATER FITTING
310	389572.9097	649306.6566	WATER FITTING
311	389566.0068	649297.8964	WATER FITTING
312	389570.4556	649307.7595	WATER FITTING
313	389562.7805	649297.3285	WATER FITTING
314	389563.5375	649299.0008	WATER FITTING
315	389564.2707	649300.6206	WATER FITTING
316	389565.7702	649303.9333	WATER FITTING
317	389567.2467	649307.1950	WATER FITTING
318	389568.0015	649308.8625	WATER FITTING
319	389568.7342	649310.5085	WATER FITTING
320	389560.5060	649298.3663	WATER FITTING
321	389566.4468	649311.5312	WATER FITTING
322	389558.2285	649299.3972	WATER FITTING
323	389564.1553	649312.5721	WATER FITTING
324	389544.9676	649298.9798	WATER FITTING
325	389548.0269	649305.7383	WATER FITTING
326	389550.0907	649310.2925	WATER FITTING
327	389552.1507	649314.8484	WATER FITTING
328	389555.2100	649321.6068	WATER FITTING
329	389466.8790	649348.1922	WATER FITTING
400	389567.7469	649256.1452	LIGHT POLE
401	389590.8250	649297.5446	LIGHT POLE
402	389609.0115	649346.3521	LIGHT POLE
403	389568.0385	649362.1492	LIGHT POLE
404	389529.4607	649262.4509	LIGHT POLE

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REPAIR SOUTH POST
RESERVOIRS
FORT MCCOY, WISCONSIN

	ST A		3/5/2026
	DIRECTORATE OF PUBLIC WORKS		
2171 SOUTH 8TH AVE.		Dwn by:	Okd by:
® FORT MC COY, WI 54556		SFA	EDH
		Reviewed by:	Work Order No
		DMC	1612
		Submitted by:	Project Number
		DPW	1503

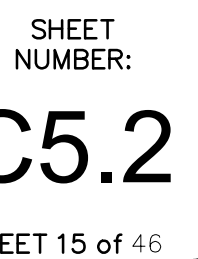
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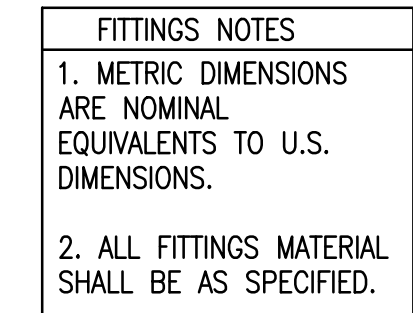
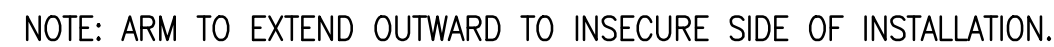


3 FIRE HYDRANT
C5.2

4 EXTERIOR PIPE BOLLARD DETAIL

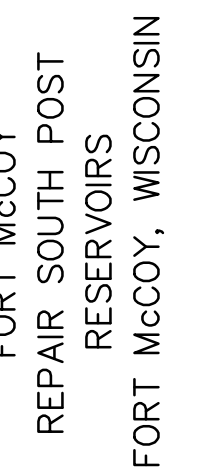
5 DOUBLE SWING GATE
C5.2

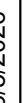




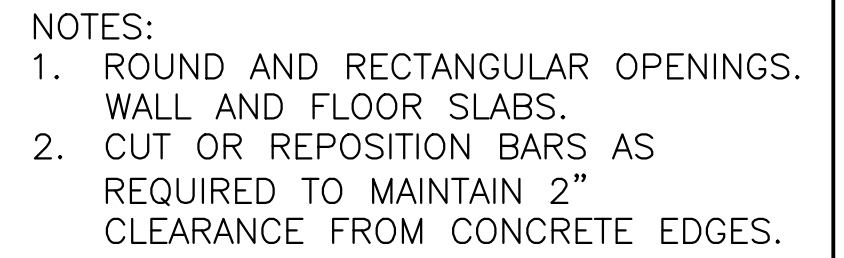
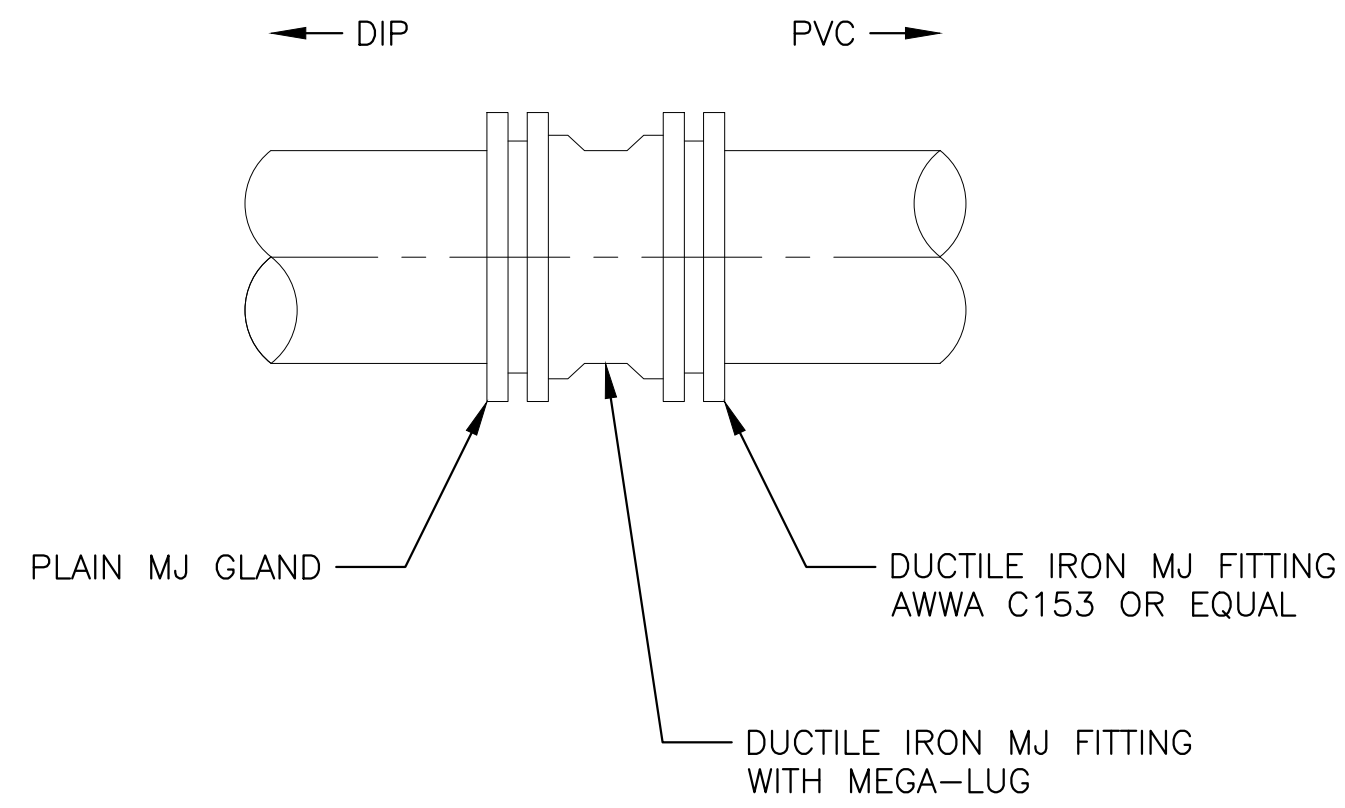
1. FABRIC: THE FENCE FABRIC SHALL BE ZINC OR ALUMINUM-COATED STEEL WIRE CHAIN LINK MATCH EXISTING TYPE WITH MESH OPENINGS NOT LARGER THAN TWO INCHES PER SIDE AND A TWISTED AND BARBED SELVAGE AT TOP AND BOTTOM IN ACCORDANCE WITH THE SPECIFICATIONS. UTILIZE 9-GAUGE FOR BASE INTERIOR FENCE. FABRIC MAY BE SALVAGED FROM EXISTING FENCE IF NO CUTS OR DAMAGE OCCURS DURING PROJECT WORK.
2. FABRIC TIES: ONLY 9-GAUGE STEEL TIES SHALL BE USED. COATING OR PLATING WILL BE ELECTROLYTICALLY COMPATIBLE WITH THE FENCE FABRIC TO INHIBIT CORROSION.
3. REINFORCEMENT: TENSION WIRES SHALL BE INSTALLED AND INTERWOVEN (OR AFFIXED WITH FABRIC TIES) ALONG THE TOP & BOTTOM OF THE FENCE FOR STABILIZATION OF THE FENCE FABRIC.
4. FENCE HEIGHT: CHAIN LINK FABRIC SHALL BE 7' IN HEIGHT WITH AN ADDITIONAL 1' IN HEIGHT COMPOSED OF 3 STRANDS OF BARBED WIRE AS REQUIRED. THE TOTAL FENCE HEIGHT IS EXPECTED TO BE APPROXIMATELY 8'.
5. GROUND CLEARANCE: BOTTOM OF THE FENCE FABRIC SHALL BE WITHIN TWO INCHES OF FIRM SOIL OR PAVEMENT.
6. TOP GUARDS: A TOP GUARD IS AN OVERHANG OF BARBED WIRED ALONG THE TOP OF A FENCE, FACING OUTWARD (AWAY FROM PROTECTED SITE) AND UPWARD AT APPROX. 45° ANGLE. TOP GUARD SUPPORTING ARMS WILL BE PERMANENTLY AFFIXED TO THE TOP OF FENCE POSTS TO INCREASE THE OVERALL HEIGHT OF THE FENCE AT LEAST 1 FOOT. THREE STRANDS OF 12-GAUGE BARBED WIRE, EQUALLY SPACED, SHALL BE INSTALLED ON THE SUPPORTING ARMS.

7. FENCE POSTS: SHALL BE ASTM F1043 OR F1083 ROUND PIPE AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. FENCE POST SPACING AND SIZE (DIAMETER) SHALL BE DETERMINED IN ACCORDANCE WITH CHAIN LINK FENCE MANUFACTURERS' INSTITUTE (WLG 2445). SPACING SHALL NOT EXCEED 10'-0" OC. SIZE (DIAMETER) SHALL NOT BE LESS THAN THAT SPECIFIED.
8. A BOTTOM RAIL SHALL BE INSTALLED 2" ABOVE GRADE. HARDWARE SHALL BE WELDED TO POSTS AND RAILS IN ORDER TO SECURE IN PLACE. ATTACH FABRIC TO BOTTOM RAIL.
9. ALL HARDWARE, GATE HINGES, LATCHES AND OTHER FASTENERS SHALL BE PERMANENTLY SECURED BY WELDING TO PREVENT DISASSEMBLY. COAT ANY AFFECTED AREAS WITH COLD GALVANIZING.

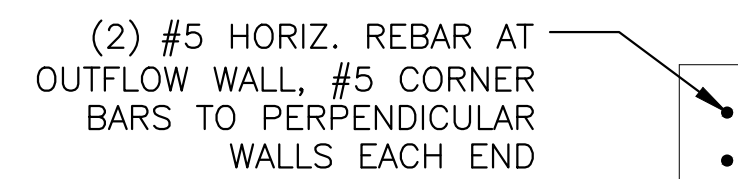
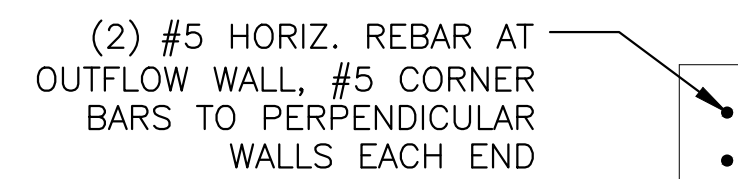


	DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE. FORT MC COY, WI 54556	Drawn by:	Qtd by:	Rev.
		SFA	EDH	3/5/2026
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		DMC	1612	
		Submitted by:	Project Number	
		DPW	1503	

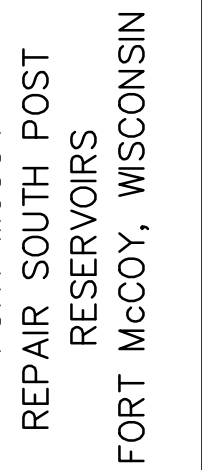
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NUMBER:
C5.3
SHEET 16 of 46



4 OPENING REINFORCEMENT DETAIL
C5.4



1 TANK DRAIN STRUCTURE



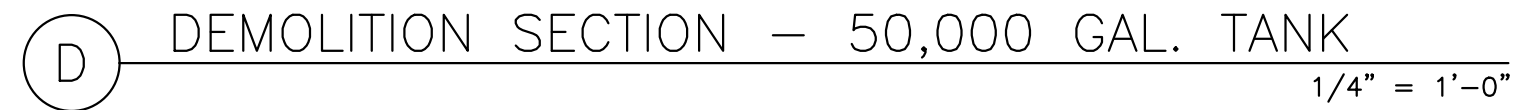
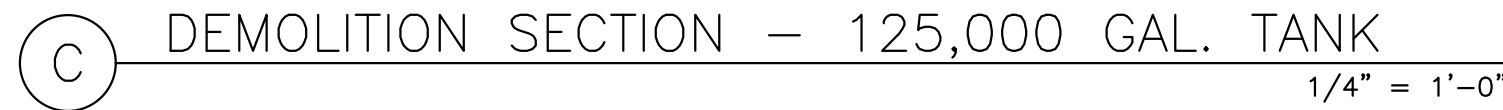
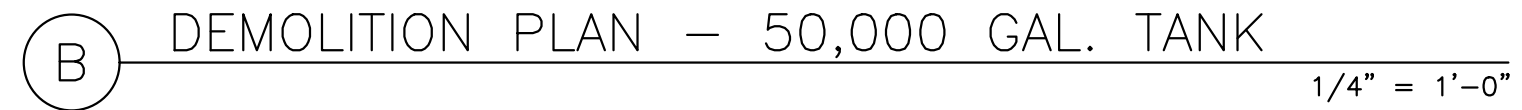
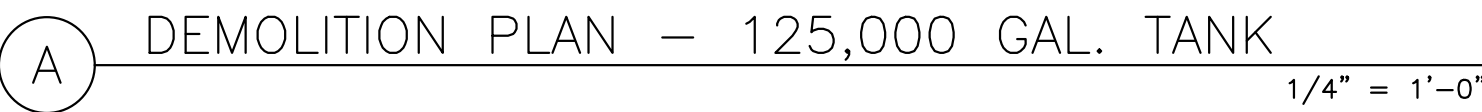
CONSTRUCTION DETAILS

C5.4

1

2

- 3

2

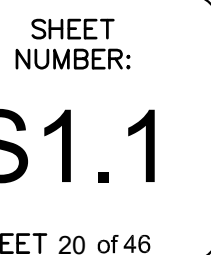
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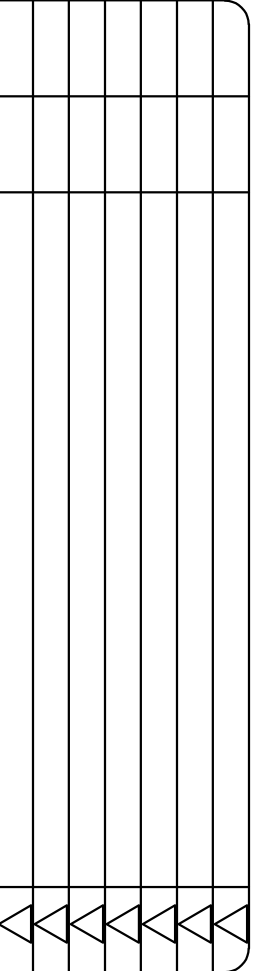
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6

(TYPICAL UNLESS NOTED OTHERWISE)

1. SLAB BASE ELEVATION = 0'-0 1/4" (U.N.O.)
(ELEVATIONS AT PERIMETER - SEE CIVIL FOR SPOT ELEVATIONS)
2. VERIFY ALL DIMENSIONS AND RESERVOIR LAYOUT AND OPENINGS
WITH PROCESS DRAWINGS.
3. DESIGN ALLOWABLE SOIL BEARING CAPACITY: 4,000 psf (REF.
GEOTECH REPORT)
4. PROCESS LINES THROUGH OR BELOW RINGWALL FOUNDATION -
SEE C/S1.1 AND SHEET P1.3.
5. CONTRACTOR TO IMMEDIATELY CONTACT C.O.R. FOR FIELD
VERIFICATION IF EXISTING CONDITIONS VARY FROM THOSE
INDICATED IN THESE DOCUMENTS.





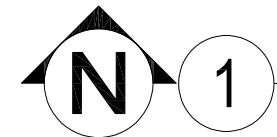
JNIN	Dwn by: KAK	Ckd by: MN	3/5/2026
	Reviewed by:		Rev. 1612
	Submitted by: DPW		Work Order No 1503



FORT WINCO
 DEPARTMENT OF PUBLIC WORKS
 2171 SOUTH 8TH AVE.
 FORT MC COY, WI 54656

NEW TANK 01 (WEST)
 ORIENTATION PLAN PHASE 1

SHEET
NUMBER:
P1.1
SHEET 21 of 46

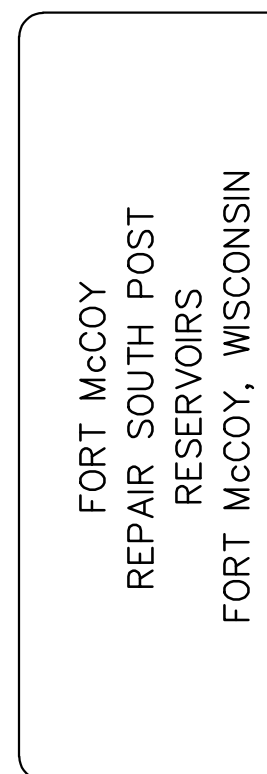
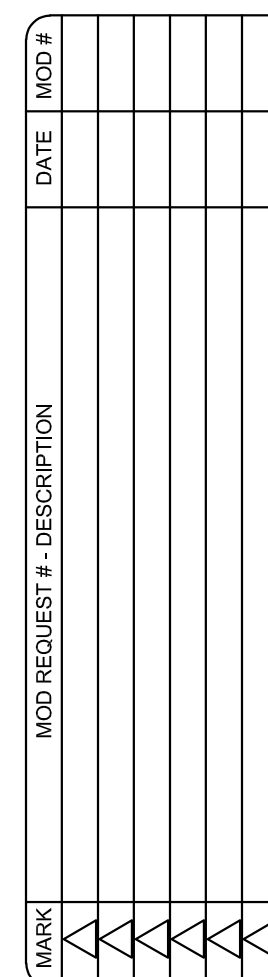


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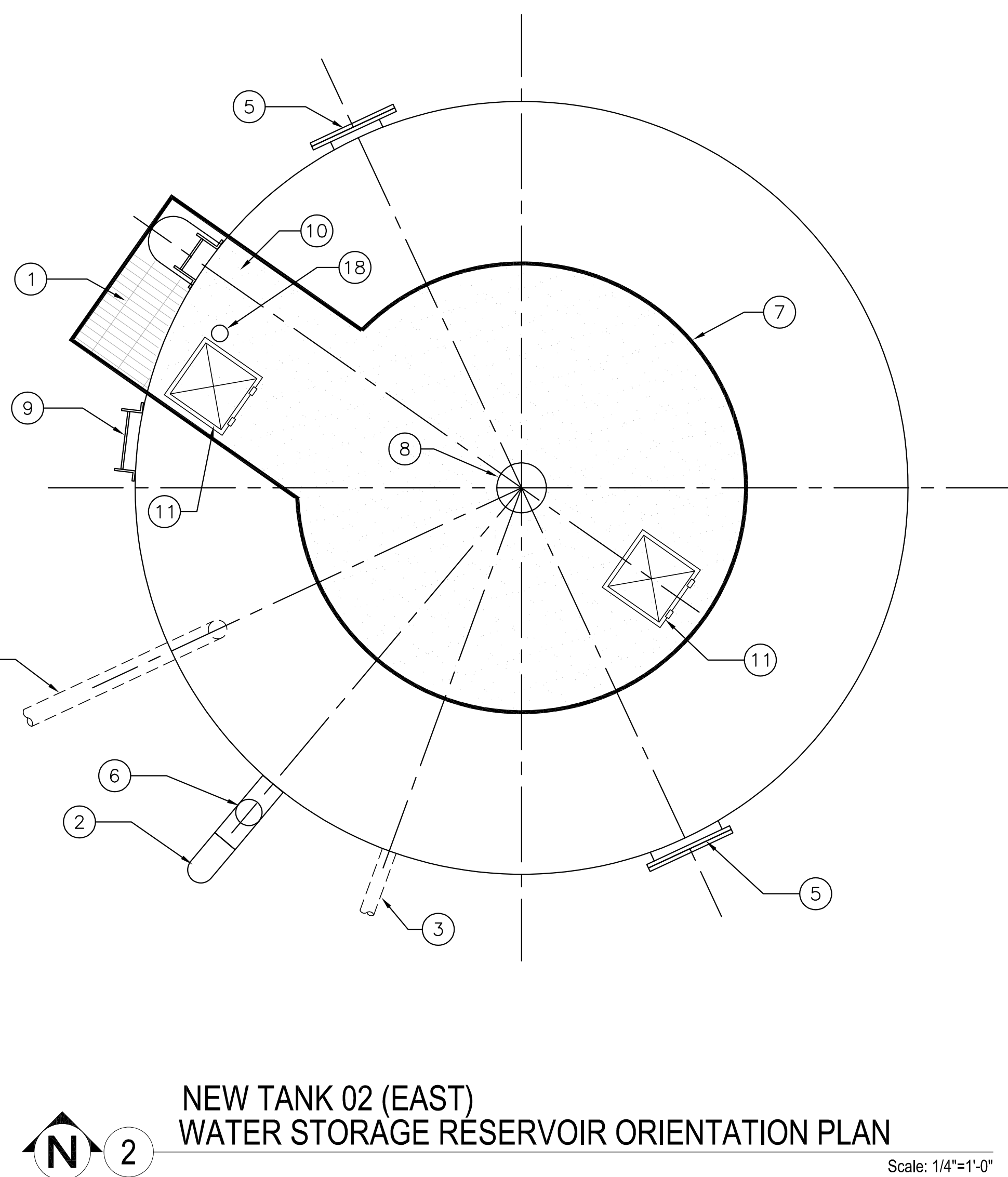


Scale: 1/4"=1'-0"

①	UPPER PLATFORM - SEE DETAIL B/P5.1	⑩	NON SKID SURFACE WITHIN HANDRAIL AREA
②	OVERFLOW BEND WITH #24 STAINLESS STEEL SCREEN	⑪	30" SQUARE ROOF ACCESS HATCH- SEE DETAIL D/P5.2
③	6" TANK DRAIN	⑫	TANK FOUNDATION WALL. SEE B/S1.1
④	WATER MAIN. SEE CIVIL SITE PLAN FOR CONTINUATION.	⑬	CAGED LADDER - SEE DETAIL A/P5.2
⑤	36" DIAMETER SHELL MANWAY - SEE DETAIL G/P5.1	⑭	TIDEFLEX INLET NOZZLE. TYP
⑥	10" OVERFLOW PIPE	⑮	8" DIA MANIFOLD
⑦	18'-0" DIAMETER HANDRAIL - SEE DETAIL F/P5.1	⑯	PIPE SUPPORT. TYP. SEE C/P5.1
⑧	PRESSURE VACUUM VENT - SEE DETAIL E/P5.1	⑰	WATERFLEX OUTLET VALVE. TYP
⑨	CABLE ROUTING / MOUNTING SUPPORTS ADJACENT TO LADDER.	⑱	JUNCTION BOX / PENETRATION FOR LEVEL TRANSDUCER



SHEET
NUMBER:
P1.2
SHEET 22 of 46

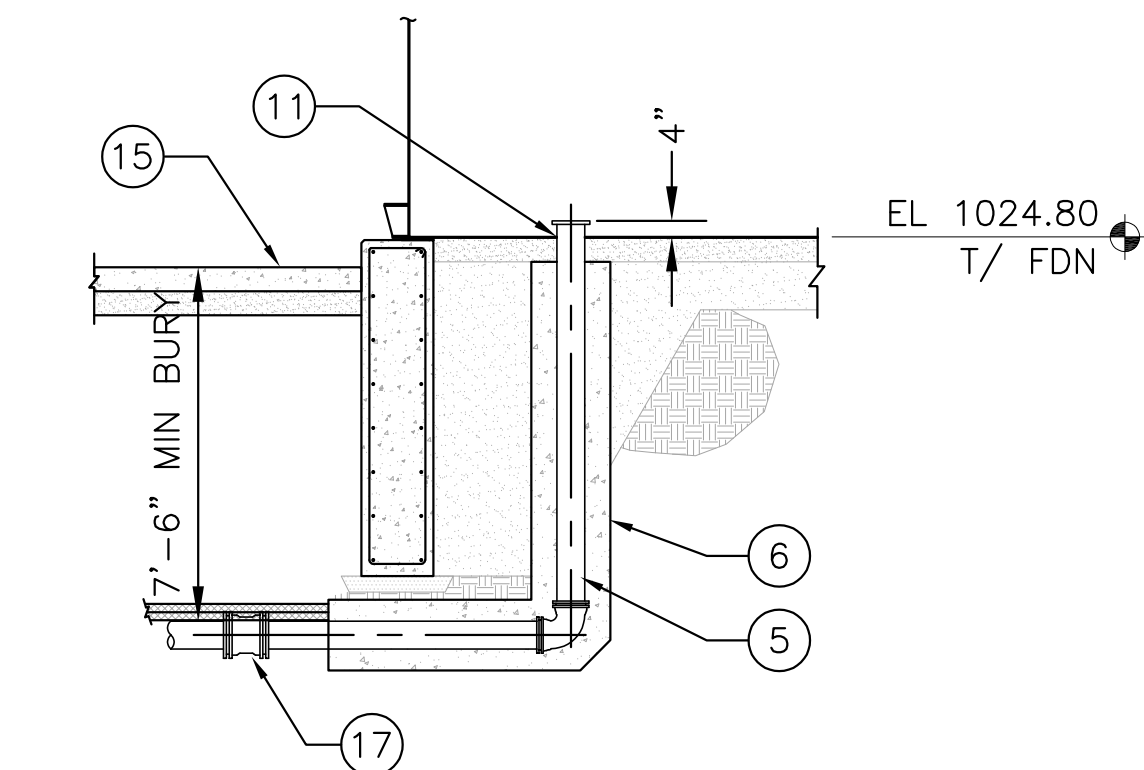


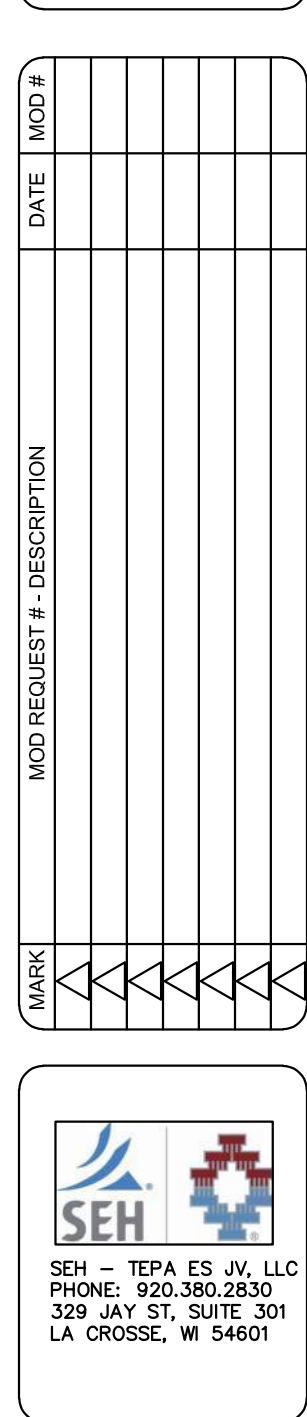
①	UPPER PLATFORM – SEE DETAIL B/P5.1	⑩	NON SKID SURFACE WITHIN HANDRAIL AREA
②	OVERFLOW BEND WITH #24 STAINLESS STEEL SCREEN	⑪	30" SQUARE ROOF ACCESS HATCH– SEE DETAIL D/P5.2
③	6" TANK DRAIN	⑫	TANK FOUNDATION WALL. SEE B/S1.1
④	WATER MAIN. SEE CIVIL SITE PLAN FOR CONTINUATION.	⑬	CAGED LADDER – SEE DETAIL A/P5.2
⑤	36" DIAMETER SHELL MANWAY – SEE DETAIL G/P5.1	⑭	TIDEFLEX INLET NOZZLE. TYP
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⑧	PRESSURE VACUUM VENT – SEE DETAIL E/P5.1	⑰	WATERFLEX OUTLET VALVE. TYP
⑨	CABLE ROUTING / MOUNTING SUPPORTS ADJACENT TO LADDER.	⑱	JUNCTION BOX / PENETRATION FOR LEVEL TRANSDUCER

A
P1.3

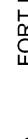
WATER STORAGE RESERVOIR TYPICAL SECTION

SCALE: 1/4" = 1'-0"

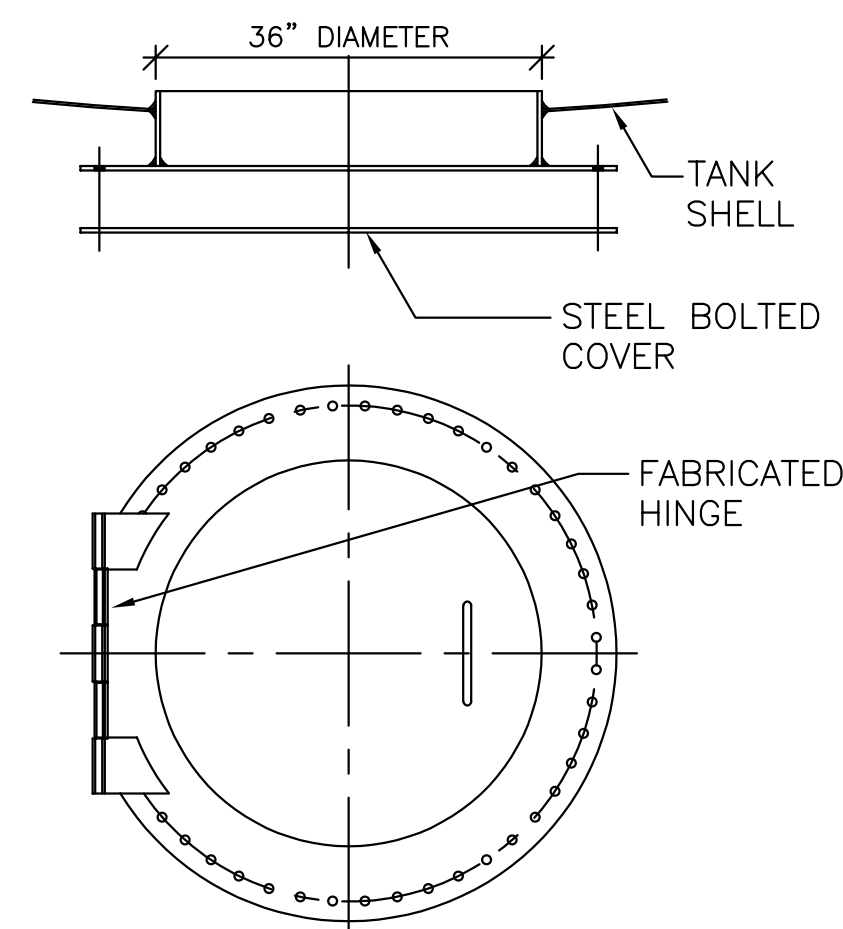
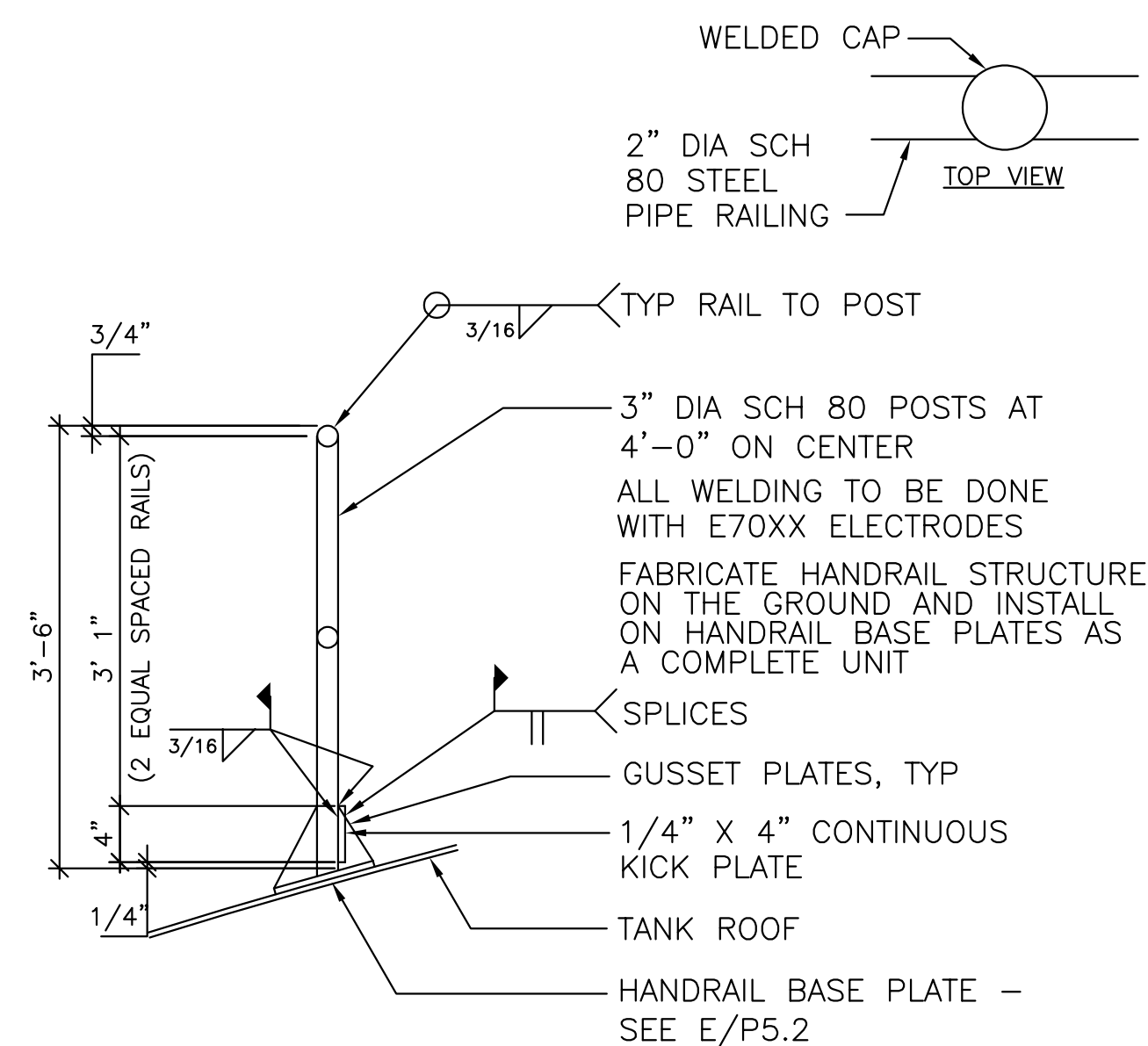
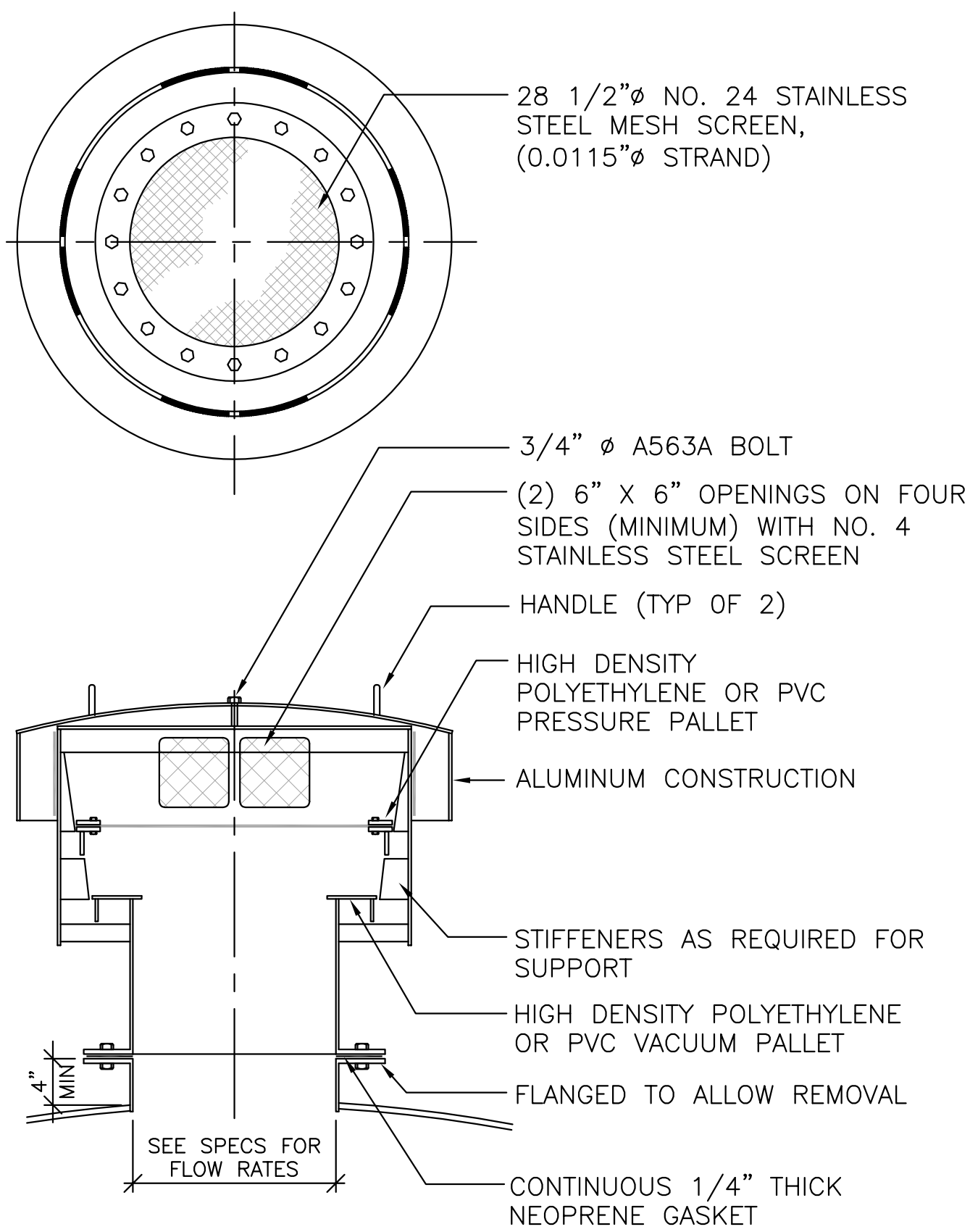
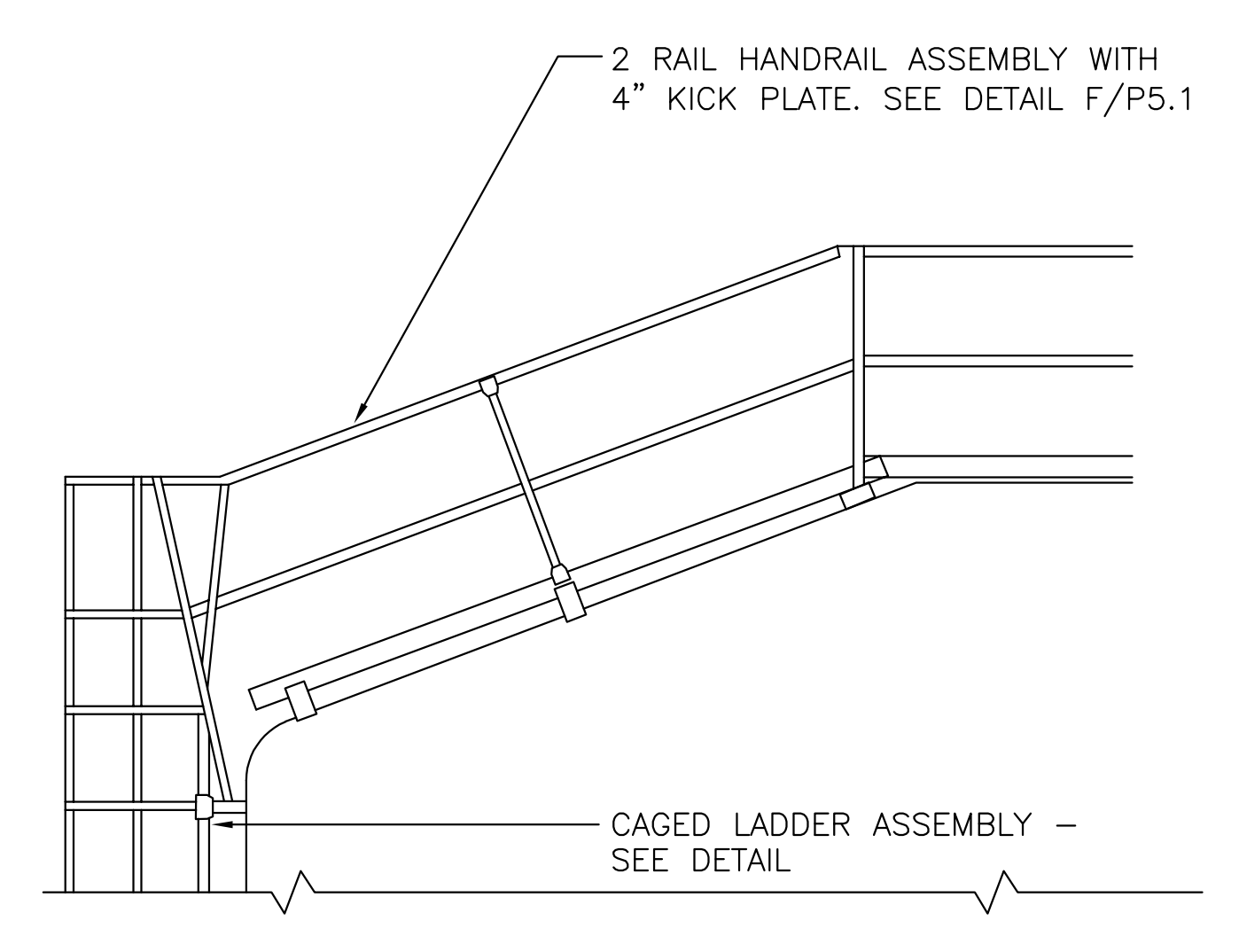
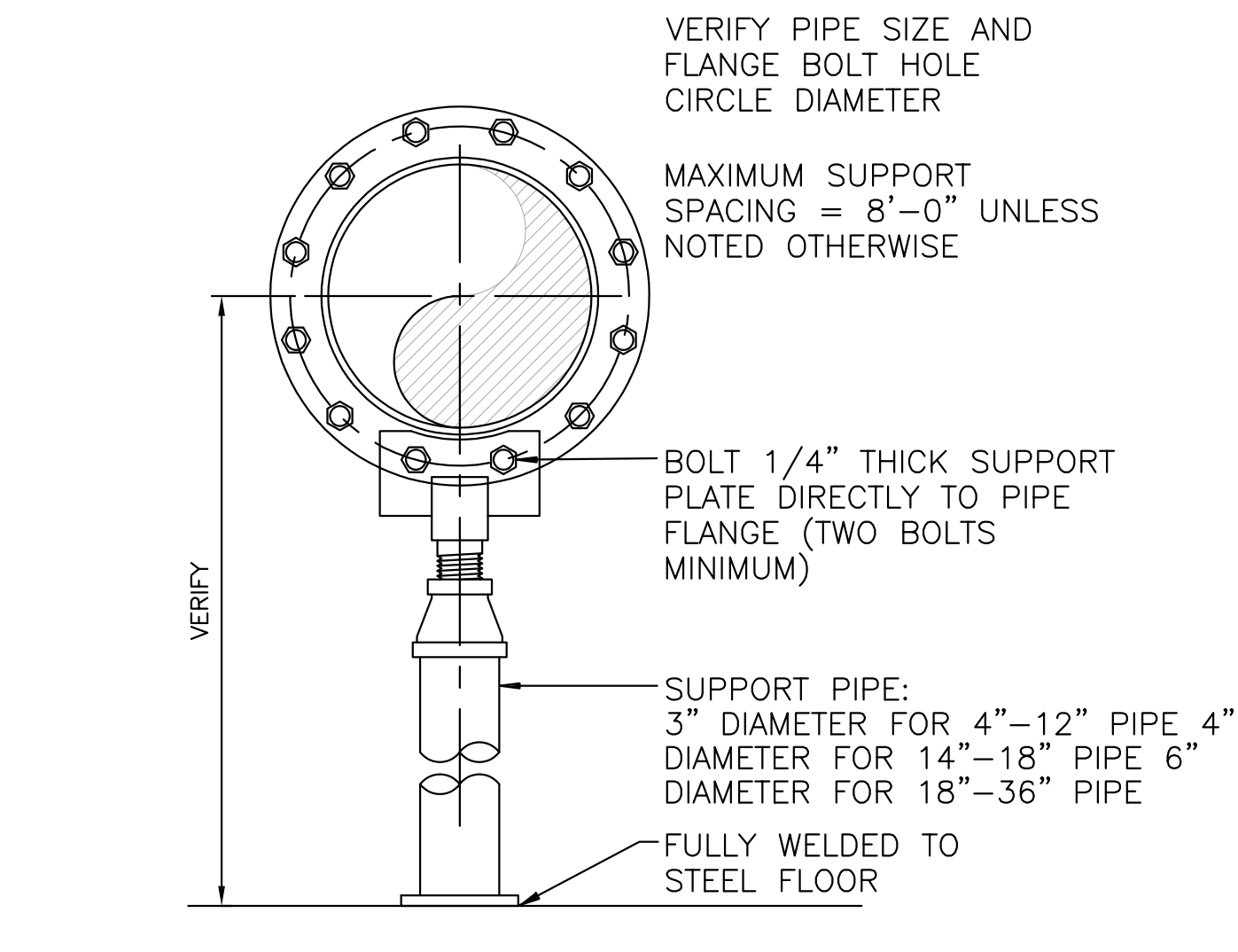
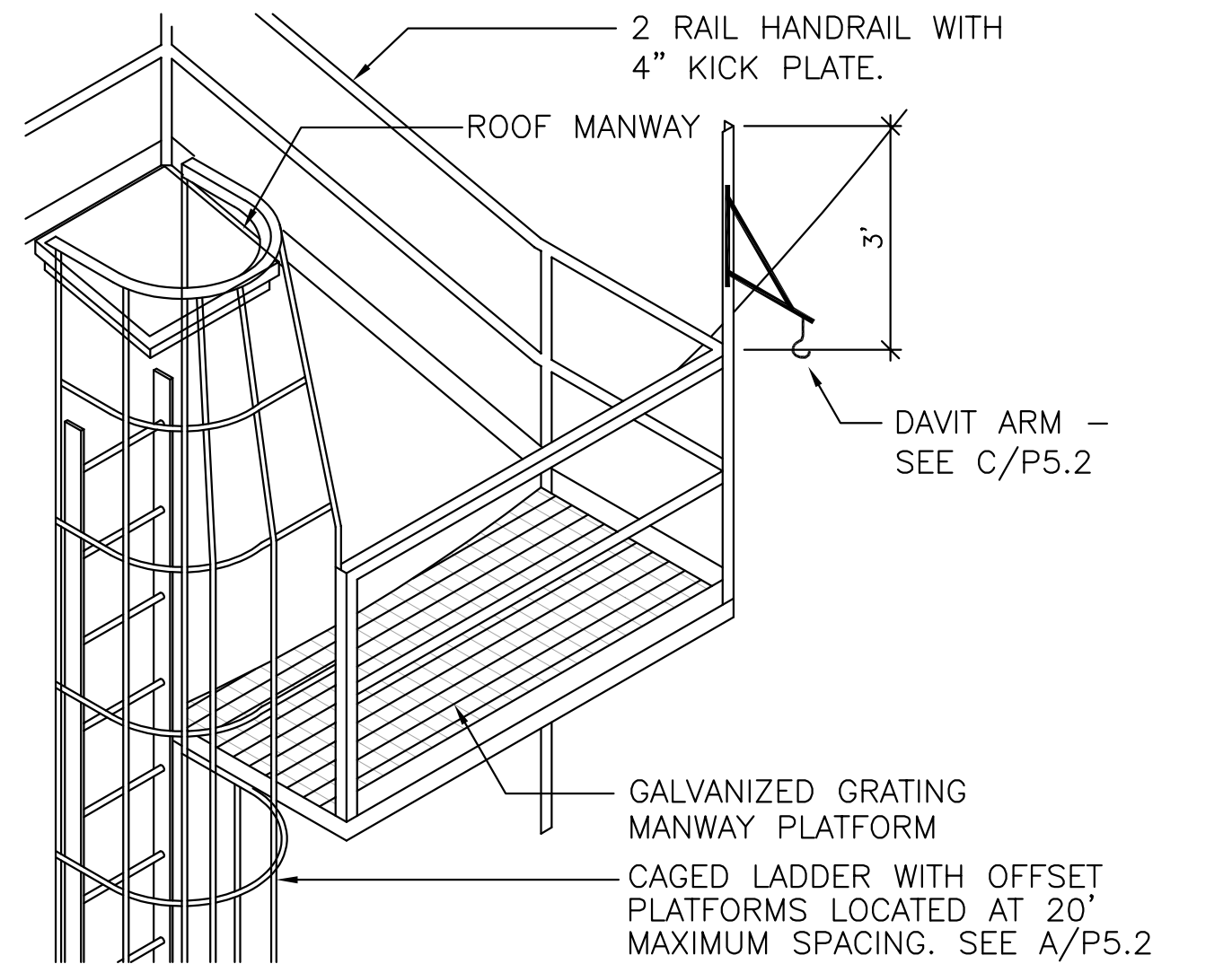
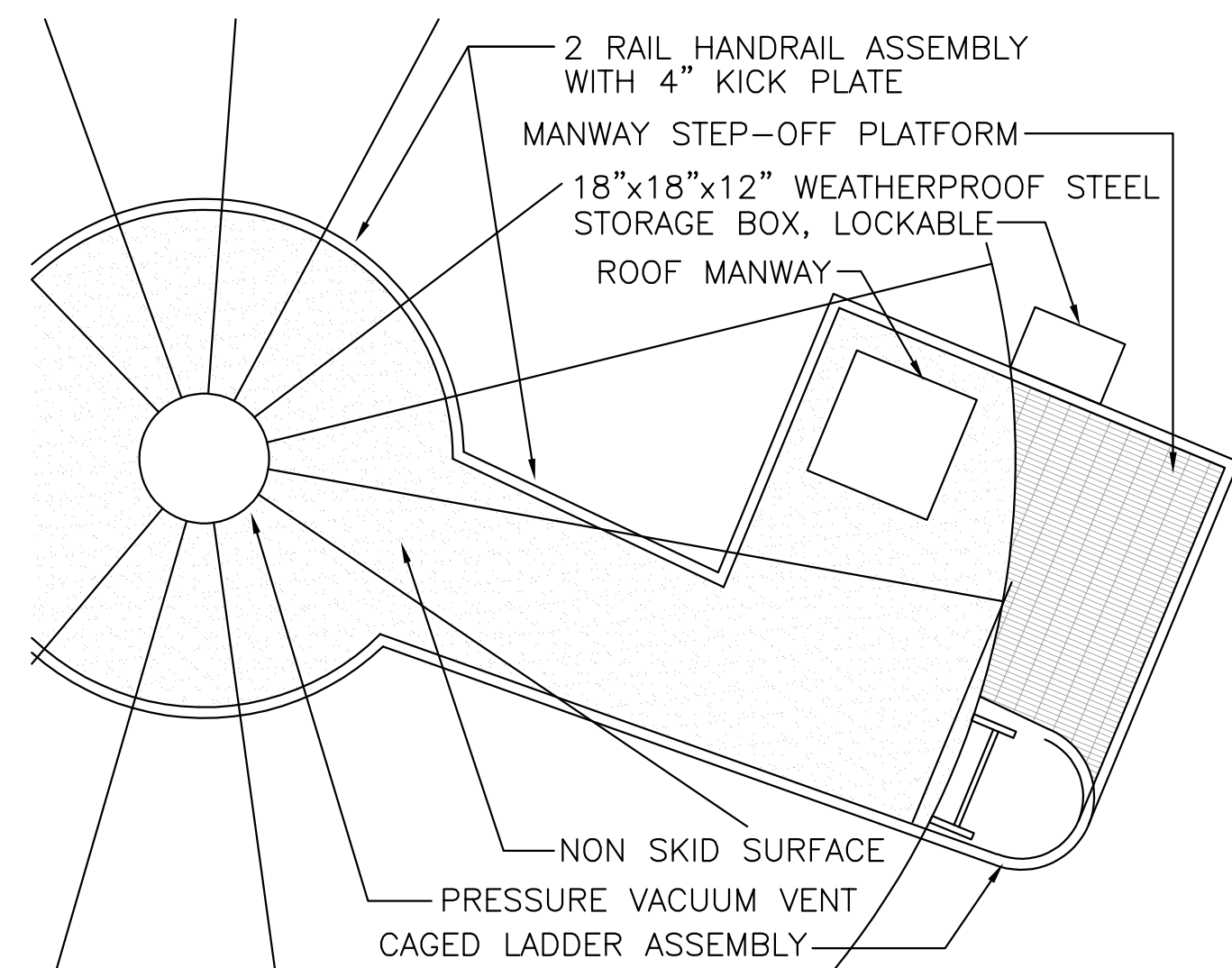




FORT McCOY
REPAIR SOUTH POST
RESERVOIRS
FORT McCOY, WISCONSIN

 FORT MCCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE. FORT MCCOY, WI 54568	Designed by:		Date:	
	JNN		3/5/2026	
	Drawn by:	Ckd by:	Rev.	
	KAK	WN		
Reviewed by:		Work Order No		
		Submitted by:		Project Number
		DPW		1503

SHEET
NUMBER:
P1.3
SHEET 23 of 46

[illegible]

FORT MCCOY
REPAIR SOUTH POST
RESERVOIRS
FORT MCCOY, WISCONSIN

UNIN	Dwn by: KAK	Ckd by: MN	3/5/2026
	Reviewed by:		Rev.
			Work Order No 1612
	Submitted by: DPW		Project Number 1503

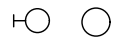
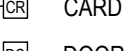
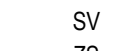
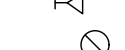
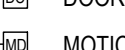
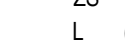
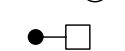
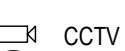
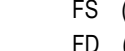
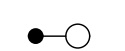
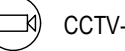
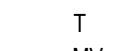
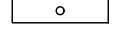
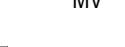
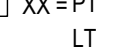
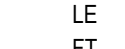
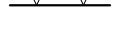
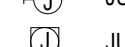
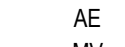
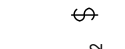
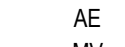
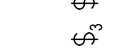
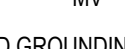
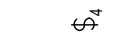
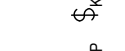
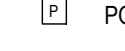
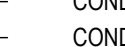
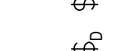
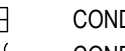
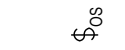
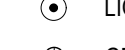
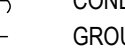
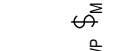
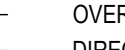
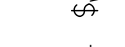
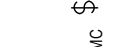
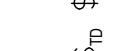
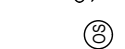
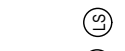
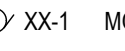
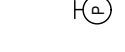
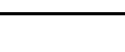
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

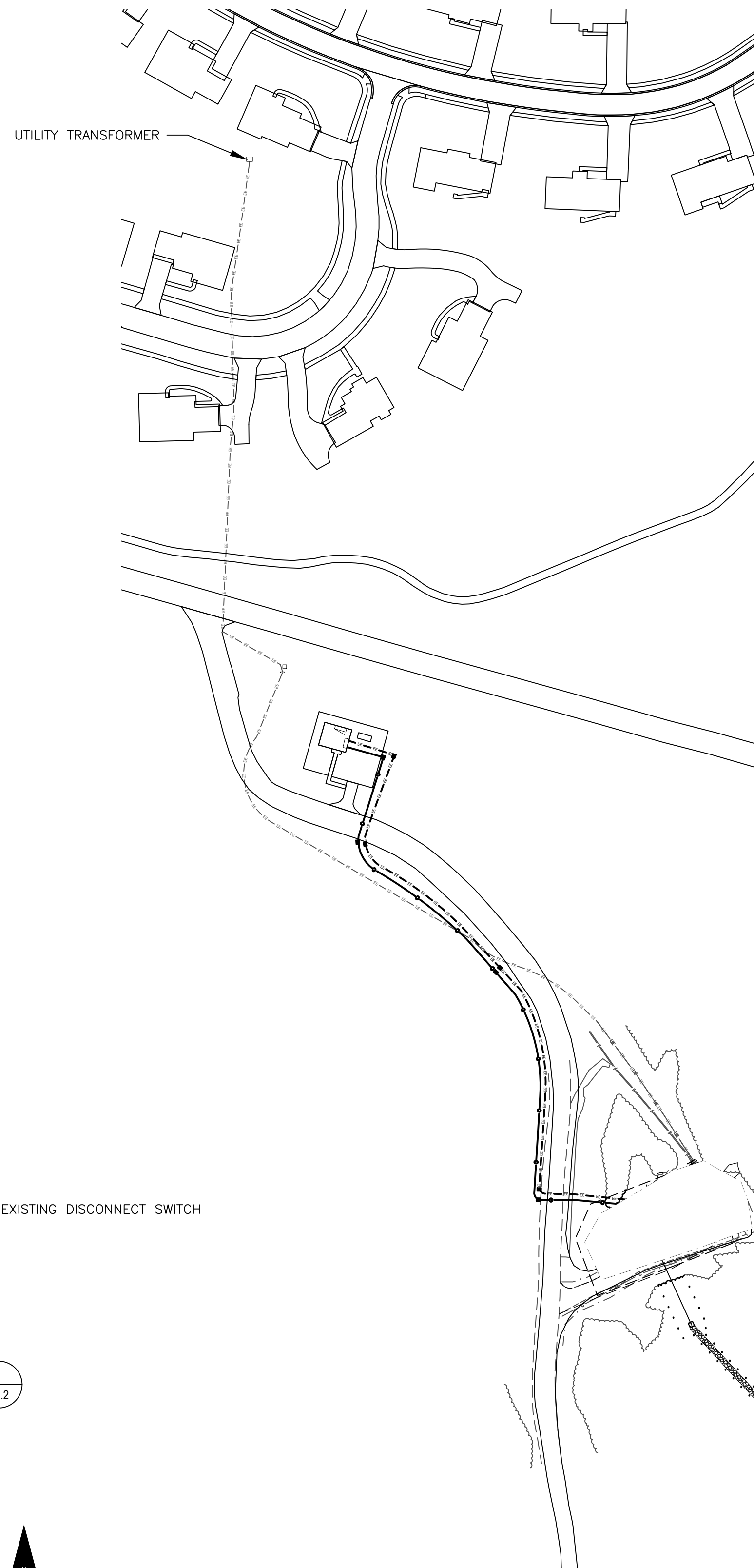
KEYLESS DETAILS

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NUMBER:

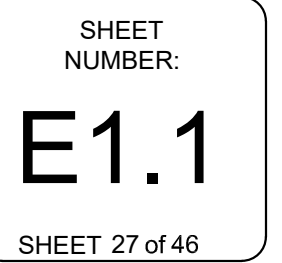
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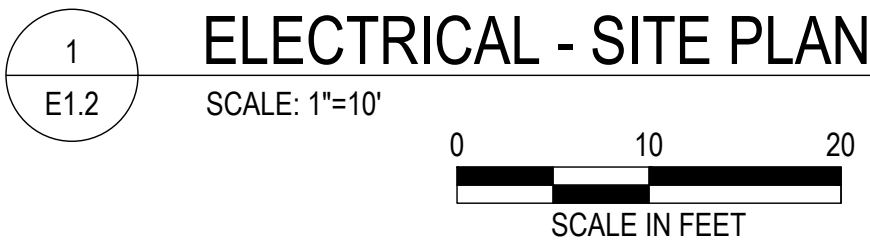
SHEET 24 of 46

	A	B	C	D	E	F	G	H	
	ELECTRICAL SYMBOL LEGEND								
	SYMBOL DESCRIPTION		SYMBOL DESCRIPTION		SYMBOL DESCRIPTION		SYMBOL DESCRIPTION		
	LIGHTING		POWER		SECURITY		INSTRUMENTATION		
1	 SURFACE LIGHT (TYPE DENOTED)		 SINGLE RECEPT.		 CARD READER		 XX = PS (PRESSURE SWITCH)		
	 WALL MOUNTED FLOODLIGHT (TYPE DENOTED)		 DUPLEX RECEPT.		 DOOR CONTACT		 SV (SOLENOID VALVE)		
	 RECESSED LIGHT (TYPE DENOTED)		 SPLIT DUPLEX RECEPT.		 MOTION DETECTOR		 ZS (LIMIT SWITCH)		
	 POLE MOUNTED LIGHT (TYPE DENOTED)		 ISOLATED GROUND RECEPT (DUPLEX SHOWN)		 CCTV		 L (FLOAT SWITCH)		
	 POLE MOUNTED FLOODLIGHT (TYPE DENOTED)		 RECEPT ON EMERGENCY CKT (DUPLEX SHOWN)		 CCTV-PTZ		 FS (FLOW SWITCH)		
	 SURFACE LINEAR LIGHT (TYPE DENOTED)		 QUADPLEX RECEPT.				 FD (FLOOR FLOOD FLOAT SWITCH)		
	 SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)		 QUADRAPLEX PLEX RECEPTACLE ON EMERGENCY CIRCUIT				 T (THERMOSTAT)		
	 RECESSED LINEAR LIGHT (TYPE DENOTED)		 FLOOR RECEPT. (DUPLEX SHOWN)				 MV (MOTORIZED VALVE)		
	 STRIP LIGHT (TYPE DENOTED)		 RECEPT ON DROP CORD (DUPLEX SHOWN)				 XX = PT (PRESSURE TRANSMITTER)		
	 TRACK AND TRACK LIGHT (TYPES DENOTED)		 RECEPT ON CORD REEL (DUPLEX SHOWN)				 LT (LEVEL TRANSMITTER)		
	 EMERGENCY BATTERY LIGHT (TYPE DENOTED)		 SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)				 LE (LEVEL ELEMENT)		
	 EXIT SIGN (TYPE DENOTED)		 JUNCTION RECEPT. OR CONN. (SEE SCHEDULE)				 FT (FLOW TRANSMITTER)		
	 LIGHT FIXTURE ON EMERGENCY CIRCUIT		 JUNCTION BOX (WALL MOUNTED)				 FM (FLOW METER ELEMENT)		
	 SINGLE POLE SW.		 JUNCTION BOX (FLOOR MOUNTED)				 TT (TEMPERATURE TRANSMITTER)		
	 2 POLE SINGLE THROW SW.		 HALF-TONE SYMBOL INDICATES EXISTING				 AT (ANALYZER)		
	 3-WAY SW.		 DASHED SYMBOL INDICATES REMOVED				 AE (ANALYZER ELEMENT)		
	 4-WAY SW.		 MULTIOUTLET ASSEMBLY (TYPE DENOTED)				 MV (MODULATING MOTORIZED VALVE)		
	 KEYED SW.		 POWER POLE (OPEN OFFICE STYLE)				 WIRING AND GROUNDING		
	 SW. WIPILOT		 STATIC GROUND RECEPTACLE (TYPE DENOTED)				 CONDUIT EXPOSED		
	 DIMMER SWITCH		 LIGHTNING PROTECTION AIR TERMINAL				 CONDUIT CONCEALED		
	 OCCUPANCY SENSOR SWITCH		 GROUND ROD (PLAN VIEW)				 CONDUIT CAPPED		
	 MANUAL MOTOR STARTER SWITCH		 UTILITY SERVICE POWER POLE (SITE)				 CONDUIT CONTINUED		
	 WEATHER PROOF SWITCH		 CIRCUIT BREAKER PANEL				 GROUND CONDUCTOR		
	 TIMER SWITCH		 TRANSFORMER (TYPE DENOTED)				 OVERHEAD ELECTRICAL LINE		
	 MOMENTARY CONTACT SWITCH		 MOTOR (SEE SCHEDULE)				 DIRECT BURIED CONDUIT		
	 TIME DELAY SWITCH		 COMB. MOTOR STARTER (FUSED)						
	 OCCUPANCY SENSOR - TYPE DENOTED		 SAFETY DISC. SW. (NON-FUSED)						
	 LIGHT LEVEL SENSOR - TYPE DENOTED		 SAFETY DISC. SW. (FUSED)						
	 PHOTOCELL								
	SYSTEMS								
	 TELEPHONE OUTLET (TYPE DENOTED)								
	 INFORMATION OUTLET (TYPE DENOTED)								
	 COMBINATION TELEPHONE/DATA OUTLET								
	 WIRELESS ACCESS POINT								
	 CLOCK (TYPE DENOTED)								



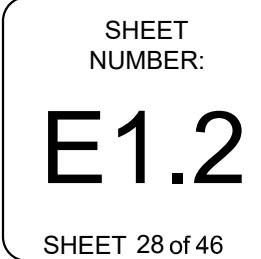
2. DIRECTIONAL BORE UNDER ROADWAYS.

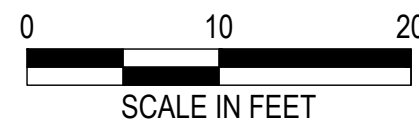




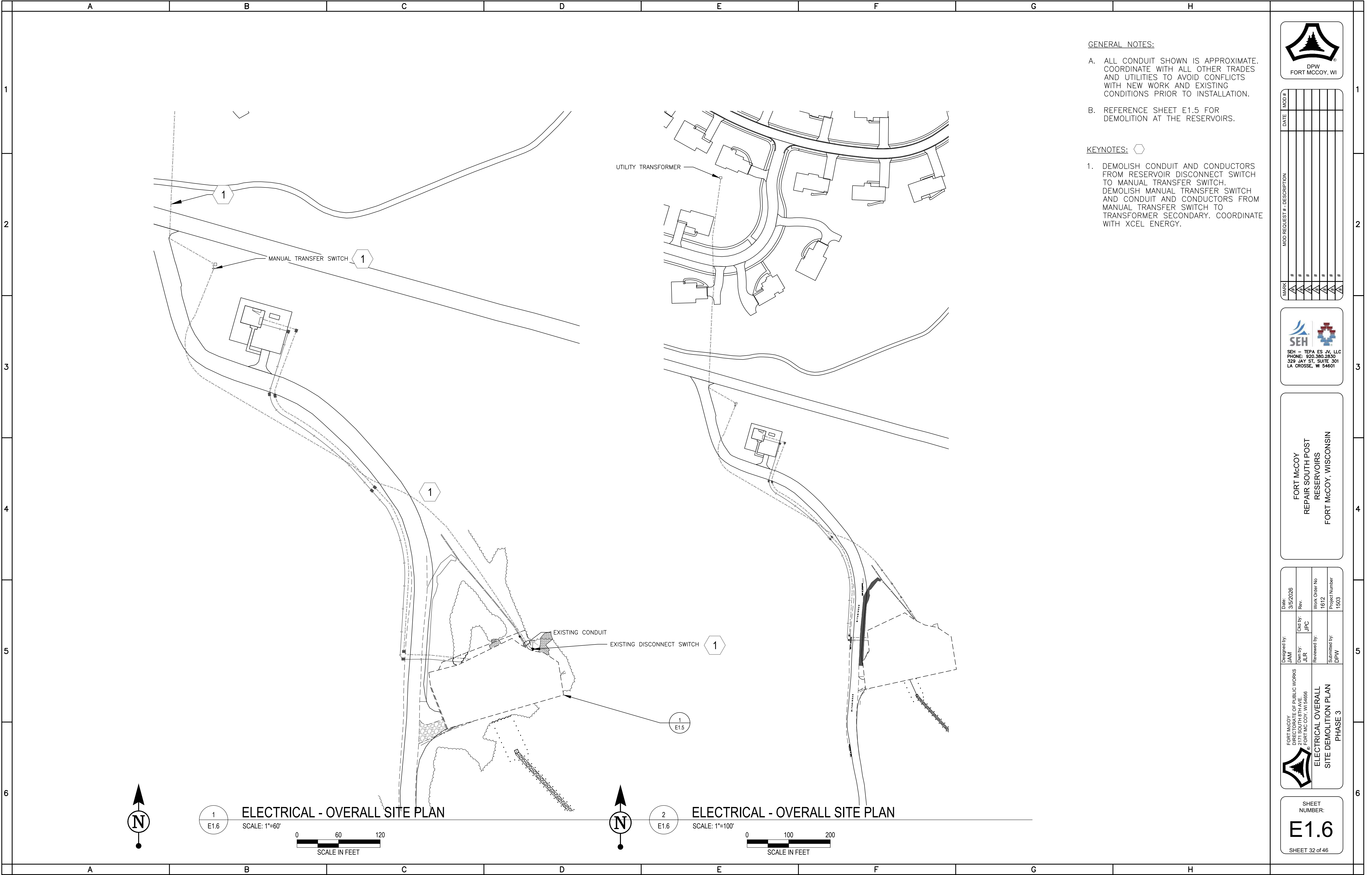
- A. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY FOR CLARITY. ROUTE ALL CONDUITS WITHIN THE SAME TRENCH AND WITHIN THE FENCELINE UNLESS NOTED OTHERWISE.
- B. ALL CONDUIT SHOWN IS APPROXIMATE. COORDINATE WITH ALL OTHER TRADES AND UTILITIES TO AVOID CONFLICTS WITH NEW WORK AND EXISTING CONDITIONS PRIOR TO INSTALLATION.
- C. REFERENCE ONE LINE DIAGRAMS ON SHEET E6.1 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
- D. REFERENCE DETAIL ON SHEET E5.1 FOR HANDHOLE INSTALLATION DETAILS.
- E. REFERENCE DETAIL ON SHEET E5.1 FOR DIRECT BURIED CONDUIT DETAILS.

1. PROVIDE CATHODIC PROTECTION EQUIPMENT ON NEW TANK. REFER TO DETAIL A5/EC5.2 & F5/EC5.2.
2. PROVIDE NEW ANTENNA WITH CABLE AND MOUNT ON POLE. REFERENCE DETAILS 4 & 6/E5.1.
3. DISCONNECT AND DEMOLISH LIGHT FIXTURE. DEMOLISH CONDUIT AND CONDUCTORS BACK TO SOURCE. REMOVE LIGHTNING PROTECTION FROM POLE AND DEMOLISH BACK TO NEAREST GROUND ROD.
4. PROVIDE NEW POLE AND LIGHT FIXTURES 5 FEET MINIMUM FROM FENCELINE. REFERENCE DETAILS 3 & 6/E5.1.
5. PROVIDE NEW POLE AND OMNI-DIRECTIONAL ANTENNA.
6. SALVAGE EXISTING RADIO FROM CONTROL PANEL. INSTALL RADIO IN NEW CONTROL PANEL. RADIO SERVES AS A REPEATER FOR MULTIPLE SITES AND DOWNTIME MUST BE LIMITED. COORDINATE WITH COR AND GOVERNMENT ON OUTAGE SCHEDULE AND DURATION.
7. INSTALL SALVAGED RADIO IN NEW CONTROL PANEL AND CONNECT TO NEW OMNI-DIRECTIONAL ANTENNA AND TEST PROPER FUNCTIONALITY/CONNECTIVITY WITH ALL REMOTE SITES PREVIOUSLY CONNECTED.
8. MOUNT CATHODIC PROTECTION RECTIFIERS ON BACKSIDE OF CONTROL PANEL RACKING.
9. 10 FT BY 3/4" DIAMETER GROUND ROD. (TYP).
10. #1/0 AWG BRAIDED COPPER CABLE. BURIED 18" MINIMUM. (TYP).
11. NEW CONTROL PANEL CP-1. SEE 7/E5.1 FOR MOUNTING DETAILS. SEE SECTION 40 90 05 AND E6.1 FOR ADDITIONAL DETAILS.





SHEET
NUMBER:
E1.5
SHEET 31 of 46



GENERAL NOTES:

A. ALL CONDUIT SHOWN IS APPROXIMATE. COORDINATE WITH ALL OTHER TRADES AND UTILITIES TO AVOID CONFLICTS WITH NEW WORK AND EXISTING CONDITIONS PRIOR TO INSTALLATION.

B. REFERENCE SHEET E1.5 FOR DEMOLITION AT THE RESERVOIRS.

KEYNOTES:

1. DEMOLISH CONDUIT AND CONDUCTORS FROM RESERVOIR DISCONNECT SWITCH TO MANUAL TRANSFER SWITCH. DEMOLISH MANUAL TRANSFER SWITCH AND CONDUIT AND CONDUCTORS FROM MANUAL TRANSFER SWITCH TO TRANSFORMER SECONDARY. COORDINATE WITH XCEL ENERGY.



MARK	MOD REQUEST #	DESCRIPTION	DATE	MOD #
1				
2				
3				
4				
5				
6				

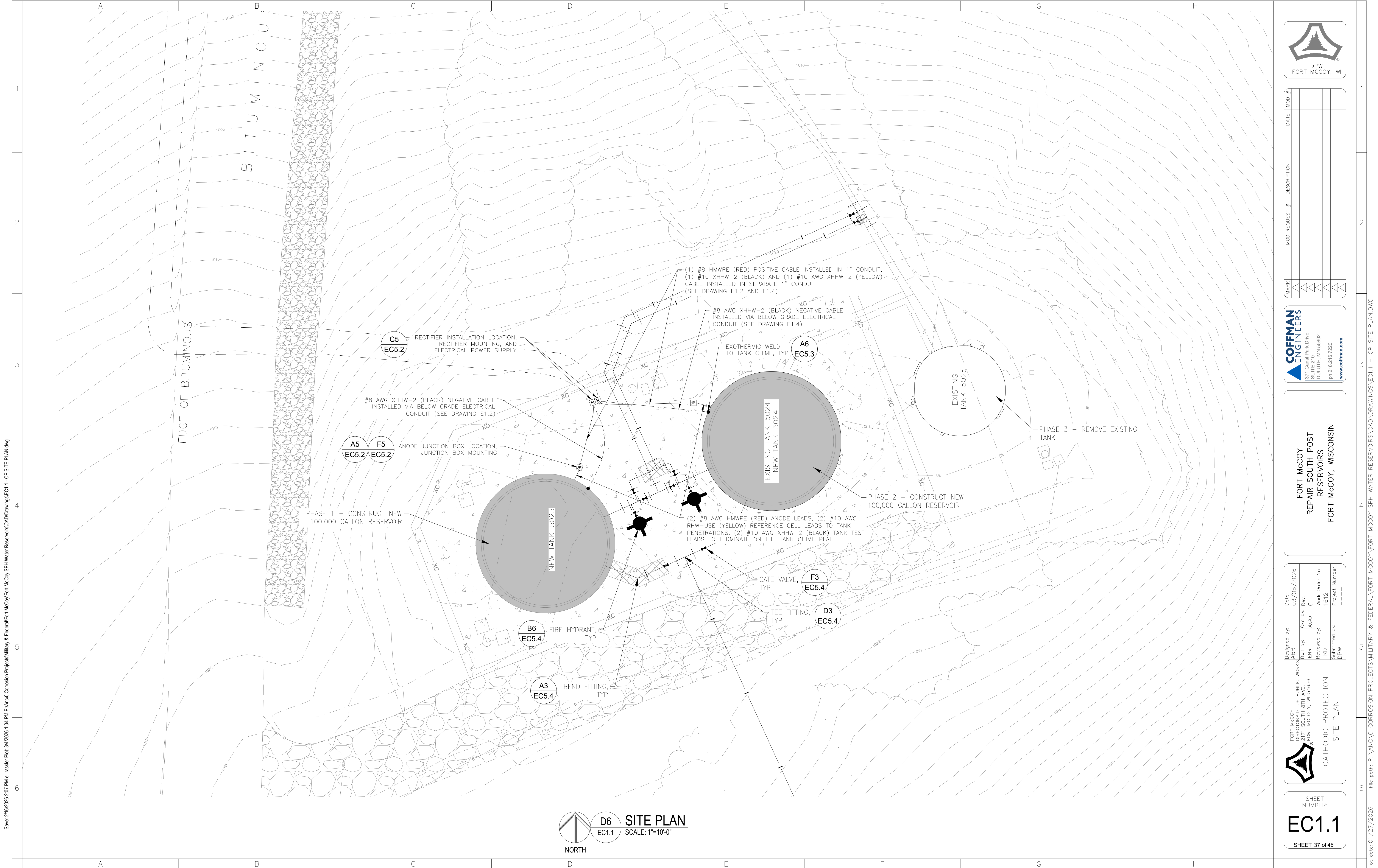


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RESERVOIRS
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Designed by: JAM	Dwn by: JLR	Cltd by: JPC	Rev:	Work Order No 1612	Project Number 1503
FORT MCCOY DIRECTORATE OF PUBLIC WORKS 2771 SOUTH 8TH AVE. FORT MCCOY, WI 54606					
ELECTRICAL OVERALL SITE DEMOLITION PLAN PHASE 3					

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E1.6
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DATE	MOD #	DESCRIPTION

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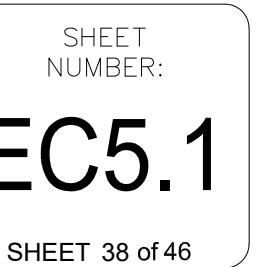
Designed by:	Date:	Drawn by:	Check by:	Rev.	Work Order No.	Project Number
ABR	03/05/2026	ENR	AGO	0	1612	-----

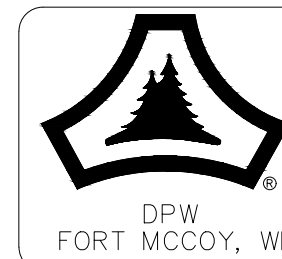
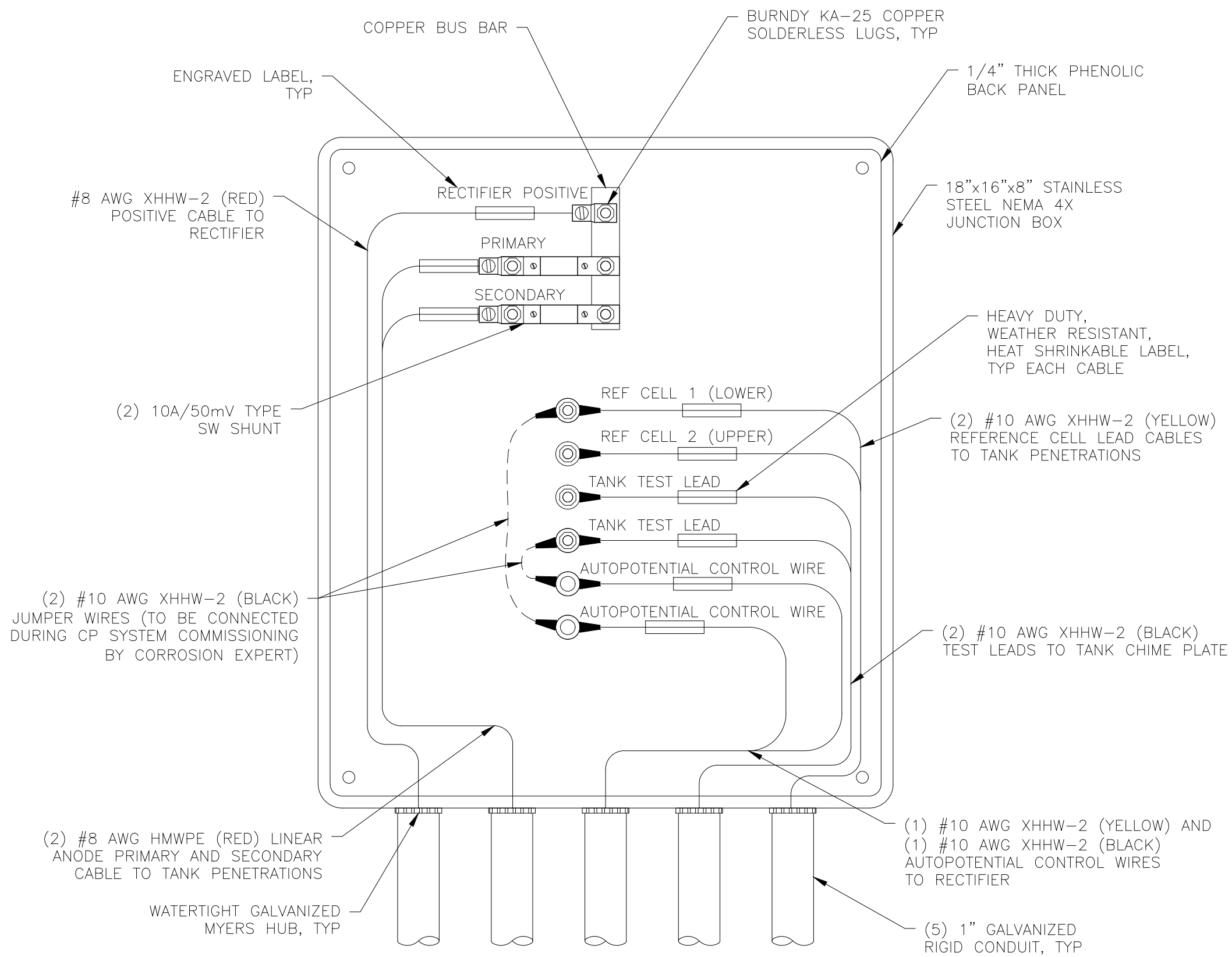
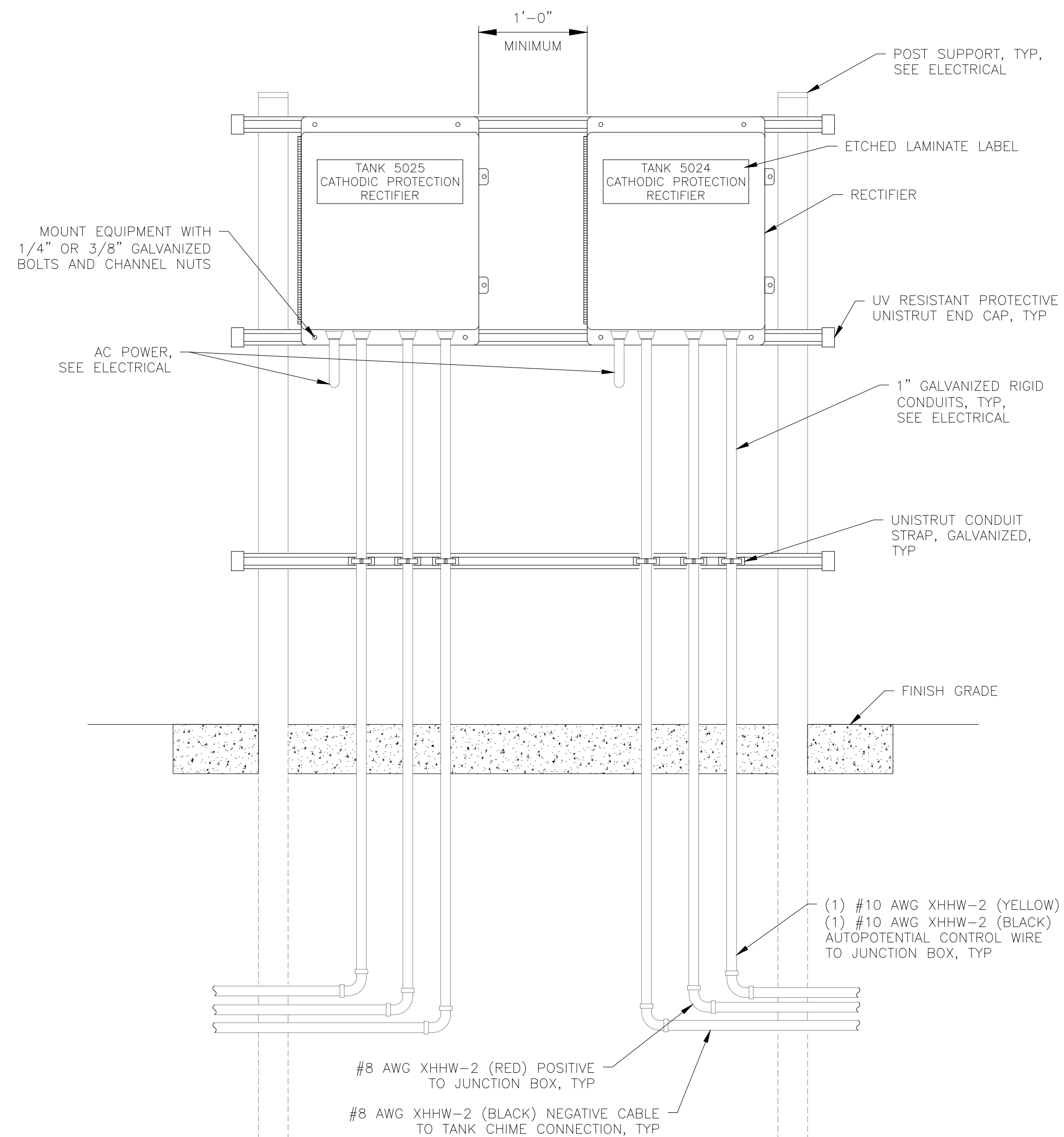
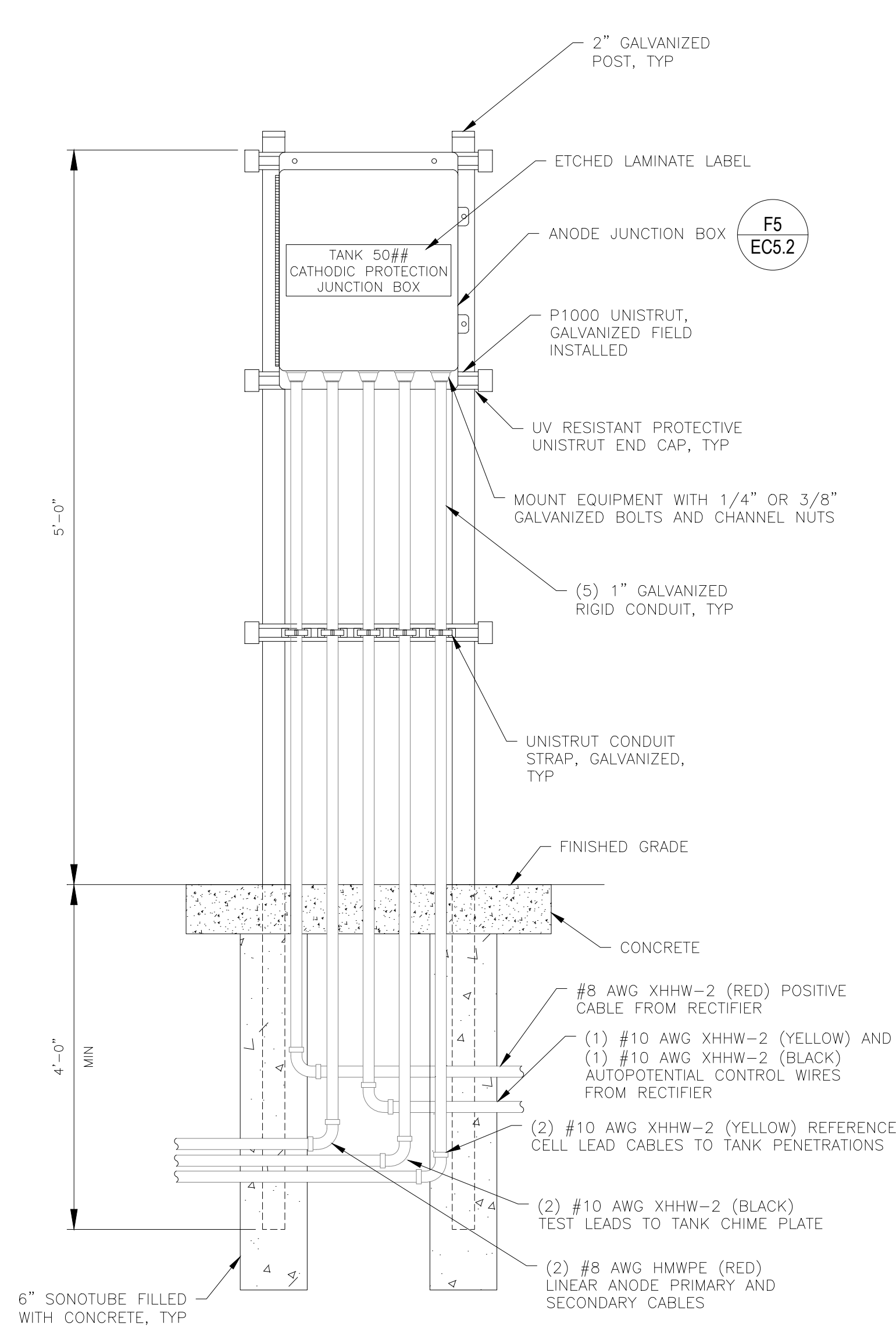
**CATHODIC PROTECTION
SITE PLAN**

SHEET
NUMBER:
EC1.1
SHEET 37 of 46

D6
EC1.1
SITE PLAN
SCALE: 1"=10'-0"

1. CATHODIC PROTECTION SYSTEM IS BASED ON TANK 5024 AND 5025 CONSTRUCTION OF WELDED STEEL AND PROVIDED WITH A HIGH PERFORMANCE BONDED DIELECTRIC LINING SYSTEM ON ALL INTERNAL TANK SURFACES AND INCLUDING PIPING AND SUPPORTS.
2. ALL INTERNAL CATHODIC PROTECTION COMPONENTS INCLUDING ANODES, CABLING, STATIONARY REFERENCE ELECTRODES, AND SUPPORT STRUCTURE SHALL BE NSF/ANSI 61 COMPLIANT.
3. GLUE ALL PVC JOINTS WITH NSF/ANSI COMPLIANT PRODUCT.
4. DO NOT ENERGIZE CATHODIC PROTECTION SYSTEMS UNTIL AUTHORIZATION IS PROVIDED BY THE OWNER OR OWNERS REPRESENTATIVE.
5. IT IS ASSUMED THE PASSIVE MIXING PIPING, PIPE SUPPORTS, AND ASSOCIATED COMPONENTS WILL BE METALLIC, ELECTRICALLY CONTINUOUS, AND PROVIDED WITH A HIGH PERFORMANCE BONDED DIELECTRIC COATING SYSTEM.

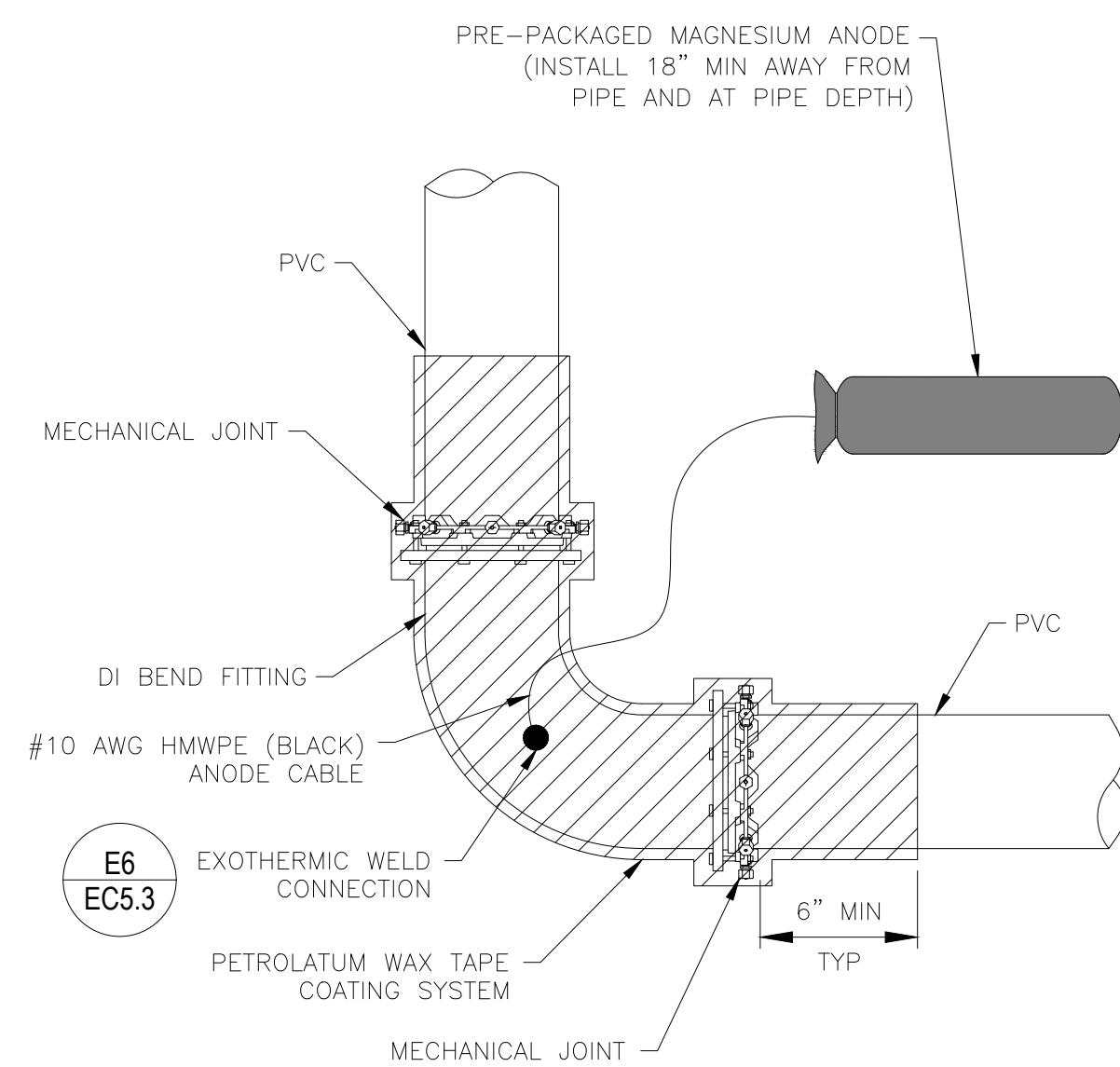


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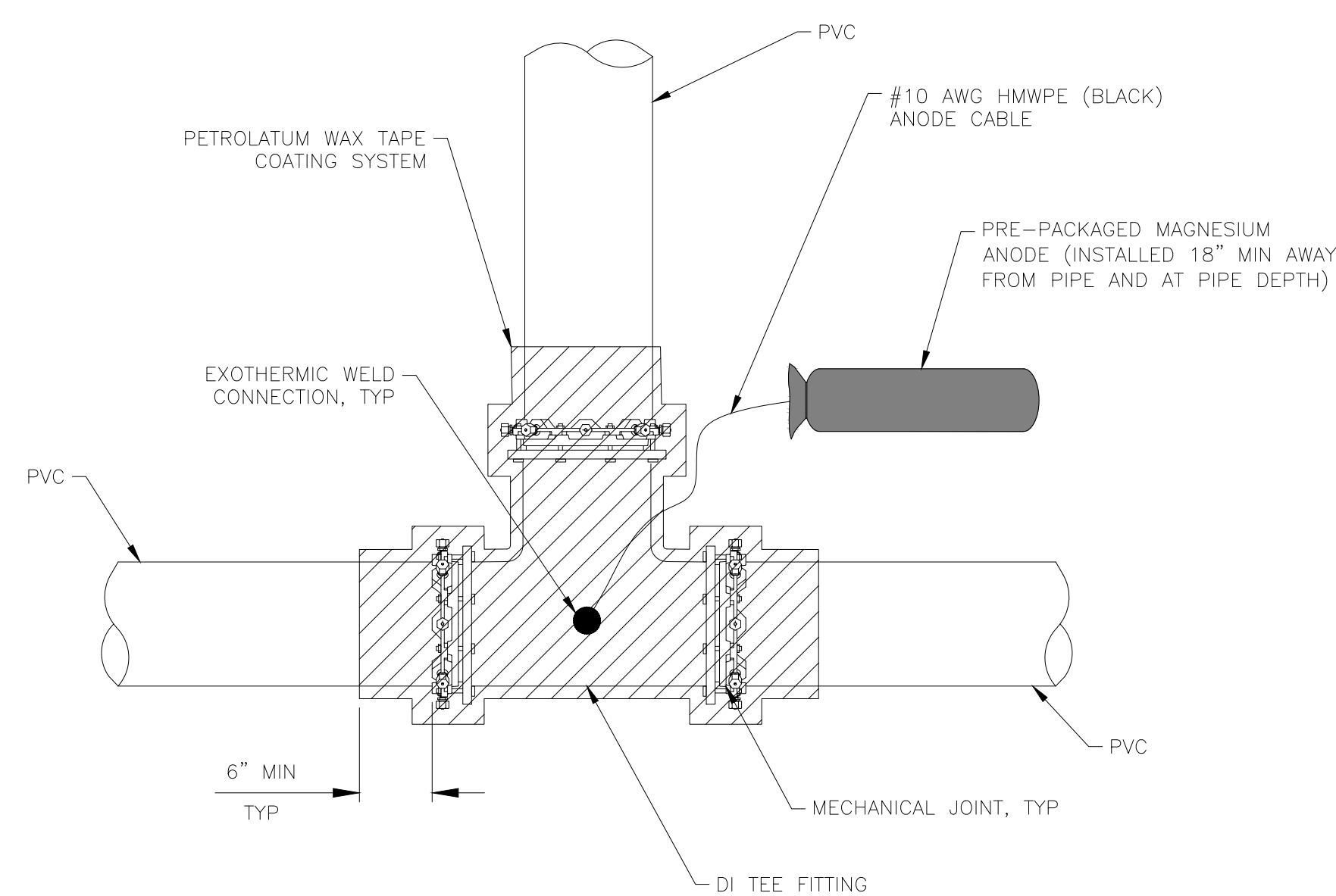
 FORT MCCOY DIRECTORATE OF PUBLIC WORKS 1000 SOUTH KALAMAZOO AVENUE FORT MCCOY, WI 54656	Designed by: ABR	Date: 03/05/2026	
	Drawn by: ENR	Qcd by: AGO	Rev. 0
	Reviewed by: TRD	Work Order No 1612	
	Submitted by: DDW	Project Number	

SHEET
NUMBER:
EC5.2
SHEET 39 of 46

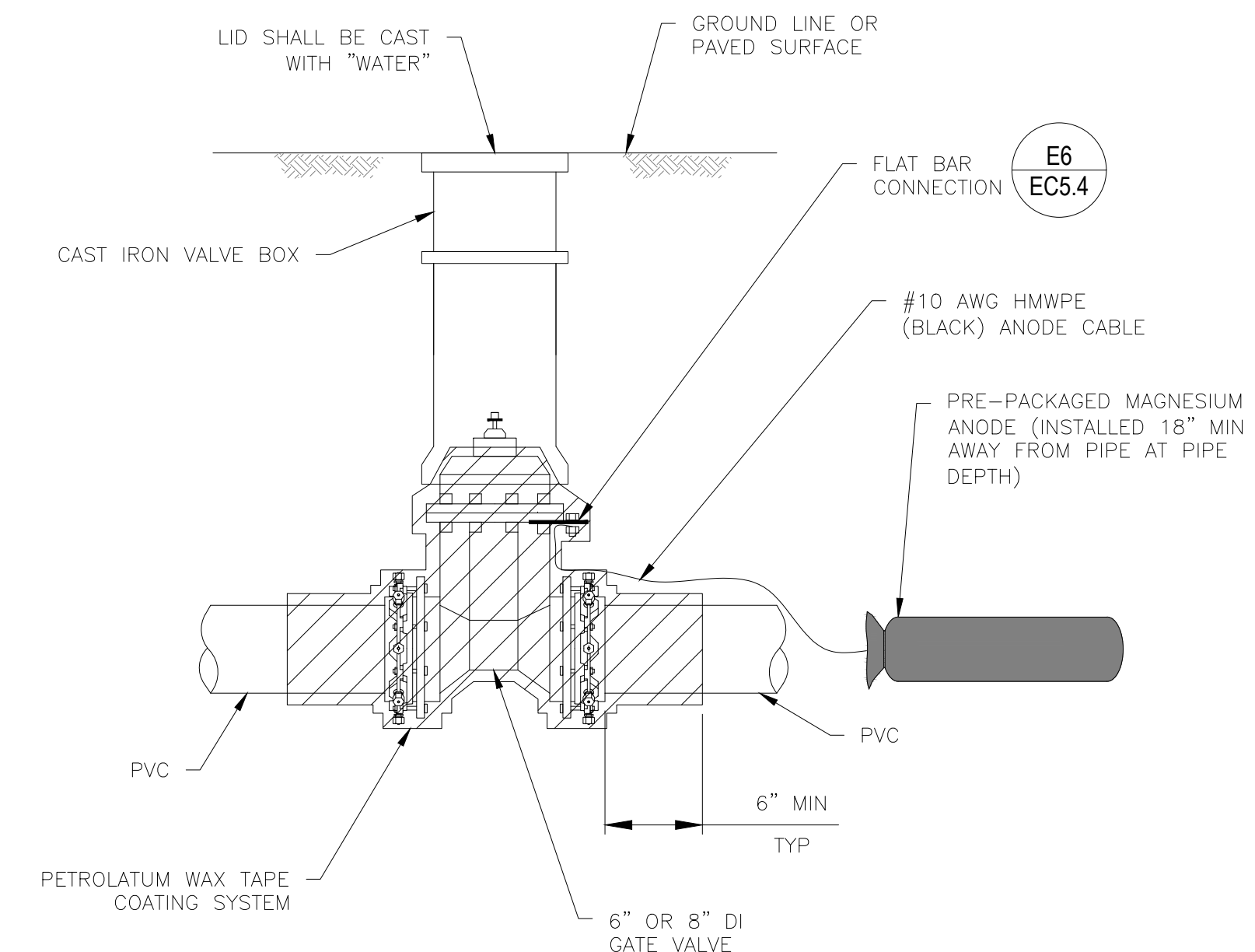


TYPICAL BEND FITTING AND
ANODE INSTALLATION DETAIL

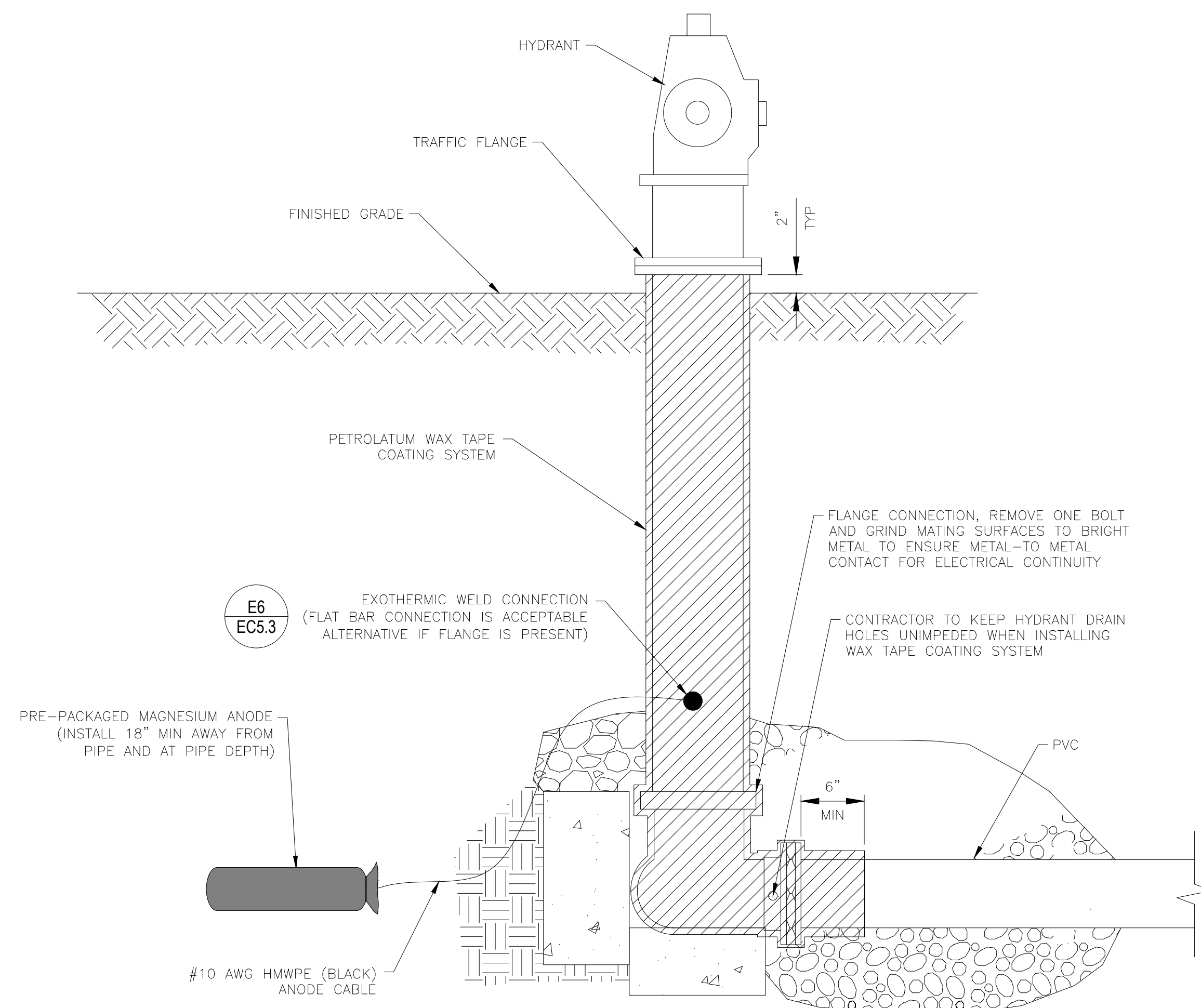
A3
EC5.4 SCALE: NTS



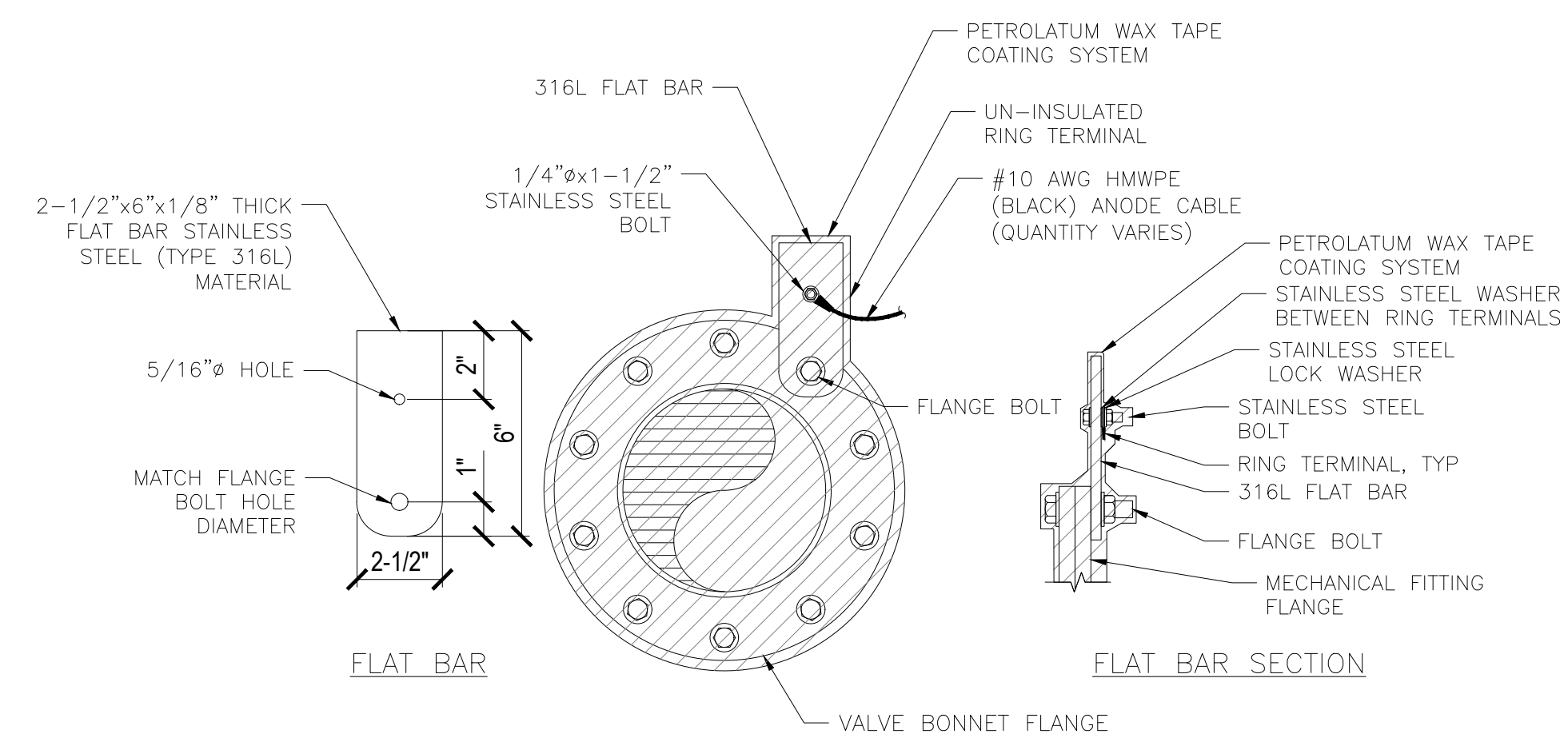
TYPICAL TEE FITTING AND ANODE INSTALLATION DETAIL



TYPICAL GATE VALVE AND ANODE INSTALLATION DETAIL



B6 EC5.4 TYPICAL FIRE HYDRANT AND ANODE INSTALLATION DETAIL SCALE: NTS



- NOTES:**
1. REMOVE THE FLANGE COATING DOWN TO BARE METAL PRIOR TO ATTACHING THE FLAT BAR SO THAT A METAL TO METAL CONNECTION IS ESTABLISHED.
 2. THE 316L FLAT BAR SHALL BE INSTALLED ON THE VALVE SIDE OF THE FLANGE JOINTS.
 3. PROVIDE PETROLATUM WAX TAPE COATING SYSTEM AROUND FLAT BAR, RING CONNECTORS, BOLT, AND A MINIMUM OF 3" DOWN ON CABLE INSULATION TO ENCAPSULATE CONNECTION.

E6 TYPICAL FLAT BAR CONNECTION DETAIL

[illegible]

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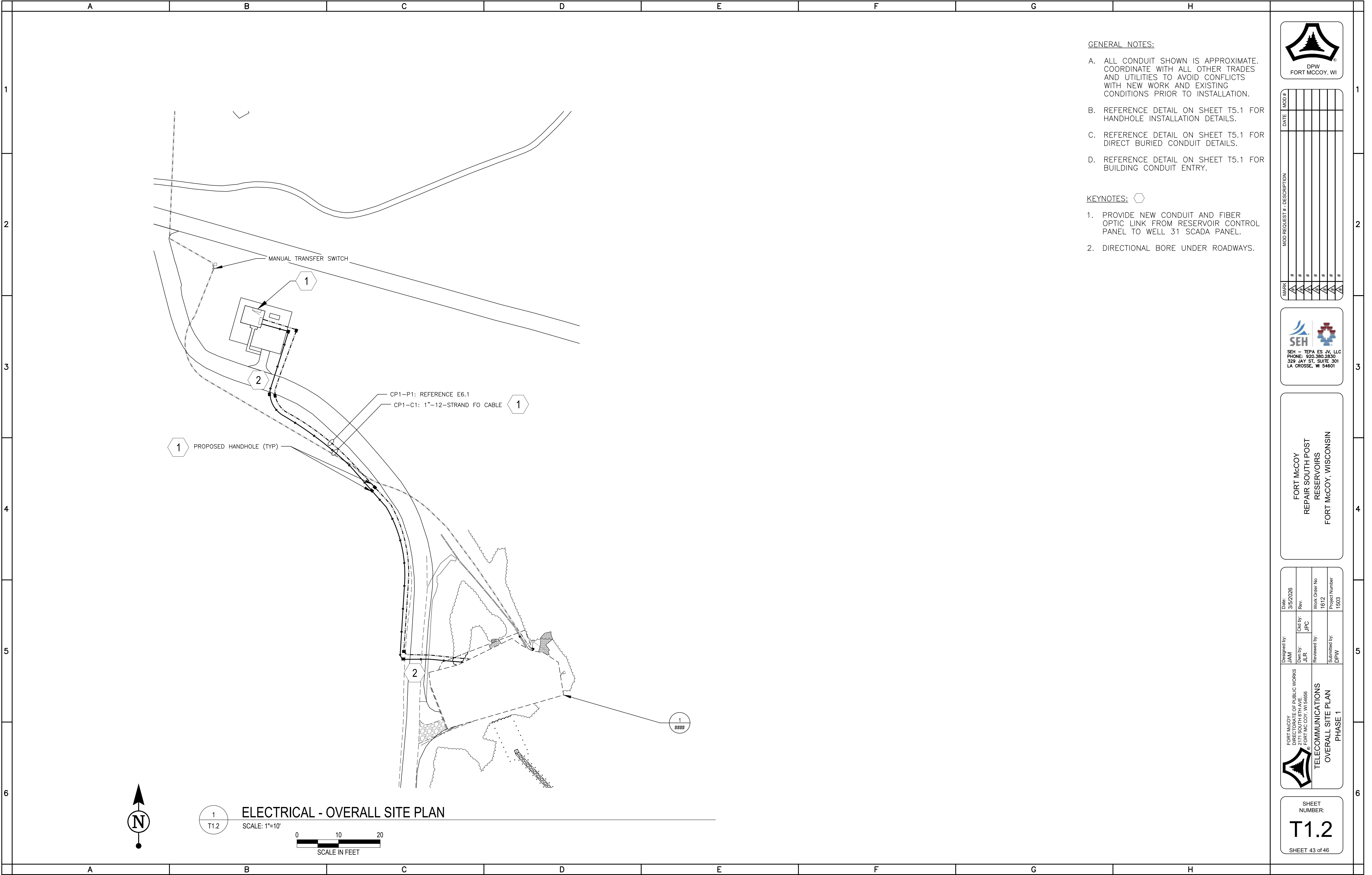
Designed by: ABR	Own by: ENR	Ckd by: AGO	Rev. 0	Date: 03/05/2026
Reviewed by: TRD			Work Order No 1612	
Submitted by: DPW			Project Number	



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DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

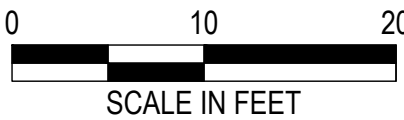
**CATHODIC PROTECTION
DETAILS**

SHEET
NUMBER:
EC5.4
SHEET 41 of 46



ELECTRICAL - OVERALL SITE PLAN

SCALE: 1"=10'



GENERAL NOTES:

- A. ALL CONDUIT SHOWN IS APPROXIMATE. COORDINATE WITH ALL OTHER TRADES AND UTILITIES TO AVOID CONFLICTS WITH NEW WORK AND EXISTING CONDITIONS PRIOR TO INSTALLATION.
- B. REFERENCE DETAIL ON SHEET T5.1 FOR HANDHOLE INSTALLATION DETAILS.
- C. REFERENCE DETAIL ON SHEET T5.1 FOR DIRECT BURIED CONDUIT DETAILS.
- D. REFERENCE DETAIL ON SHEET T5.1 FOR BUILDING CONDUIT ENTRY.

KEYNOTES:

- 1. PROVIDE NEW CONDUIT AND FIBER OPTIC LINK FROM RESERVOIR CONTROL PANEL TO WELL 31 SCADA PANEL.
- 2. DIRECTIONAL BORE UNDER ROADWAYS.



MARK	#	MOD #	DATE	DESCRIPTION
A	1			
A	2			
A	3			
A	4			
A	5			
A	6			



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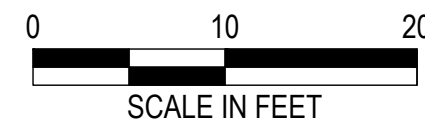
FORT MCCOY DIRECTORATE OF PUBLIC WORKS 2771 SOUTH 8TH AVE. FORT MCCOY, WI 54606	Designed by: JAM	Date: 3/5/2026
	Dwn by: JLR	Rev.:
	Reviewed by:	Work Order No 1612
	Submitted by: DPW	Project Number 1503

SHEET
NUMBER:
T1.2
SHEET 43 of 46

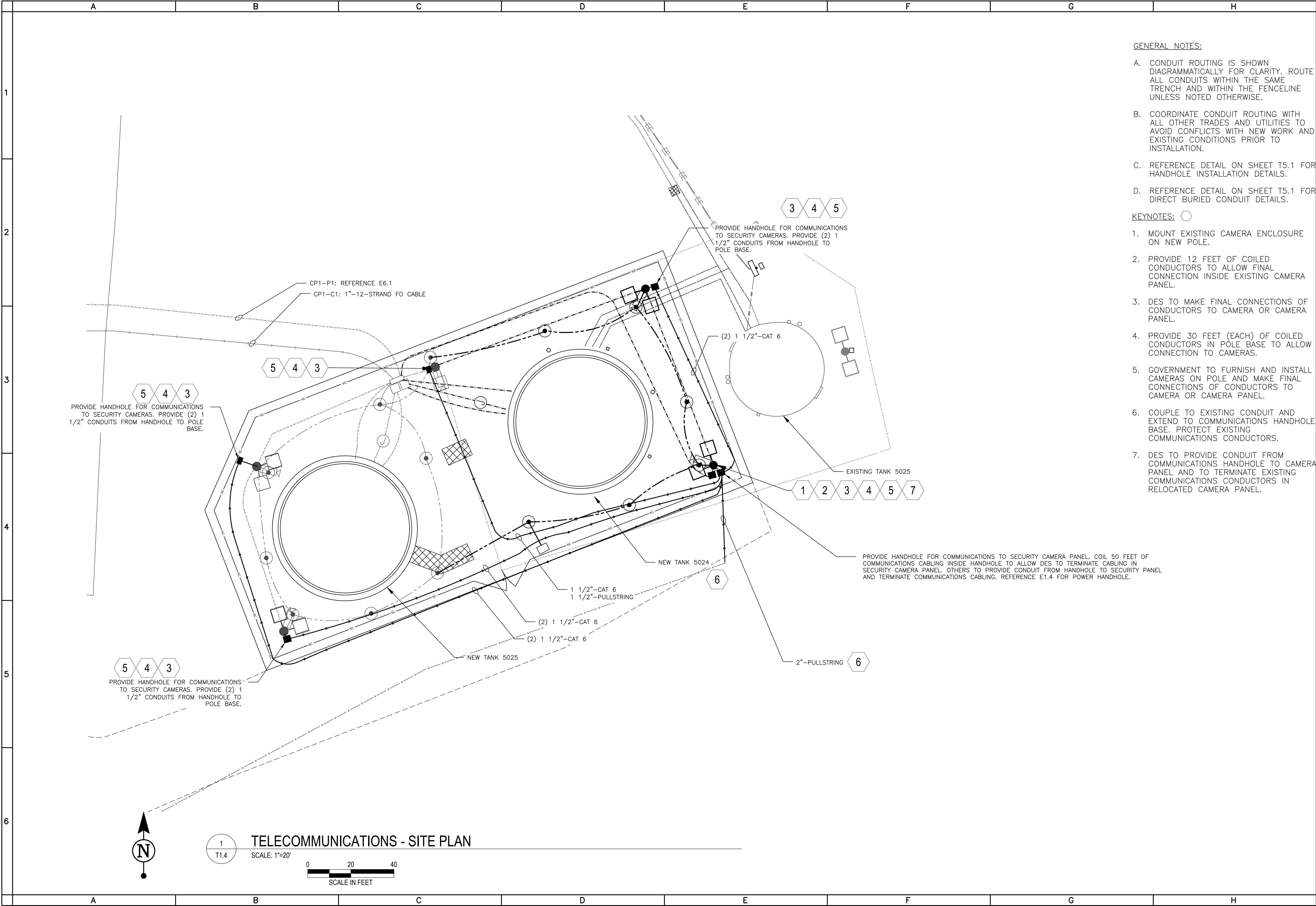


TELECOMMUNICATIONS - SITE DEMOLITION PLAN

SCALE: 1"=10'



SHEET
NUMBER:
T1.3
SHEET 44 of 46



- GENERAL NOTES:
- A. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY FOR CLARITY. ROUTE ALL CONDUITS WITHIN THE SAME TRENCH AND WITHIN THE FENCELINE UNLESS NOTED OTHERWISE.
 - B. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES AND UTILITIES TO AVOID CONFLICTS WITH NEW WORK AND EXISTING CONDITIONS PRIOR TO INSTALLATION.
 - C. REFERENCE DETAIL ON SHEET T5.1 FOR HANDHOLE INSTALLATION DETAILS.
 - D. REFERENCE DETAIL ON SHEET T5.1 FOR DIRECT BURIED CONDUIT DETAILS.
- KEYNOTES:
- 1. MOUNT EXISTING CAMERA ENCLOSURE ON NEW POLE.
 - 2. PROVIDE 12 FEET OF COILED CONDUCTORS TO ALLOW FINAL CONNECTION INSIDE EXISTING CAMERA PANEL.
 - 3. DES TO MAKE FINAL CONNECTIONS OF CONDUCTORS TO CAMERA OR CAMERA PANEL.
 - 4. PROVIDE 30 FEET (EACH) OF COILED CONDUCTORS IN POLE BASE TO ALLOW CONNECTION TO CAMERAS.
 - 5. GOVERNMENT TO FURNISH AND INSTALL CAMERAS ON POLE AND MAKE FINAL CONNECTIONS OF CONDUCTORS TO CAMERA OR CAMERA PANEL.
 - 6. COUPLE TO EXISTING CONDUIT AND EXTEND TO COMMUNICATIONS HANDHOLE BASE. PROTECT EXISTING COMMUNICATIONS CONDUCTORS.
 - 7. DES TO PROVIDE CONDUIT FROM COMMUNICATIONS HANDHOLE TO CAMERA PANEL AND TO TERMINATE EXISTING COMMUNICATIONS CONDUCTORS IN RELOCATED CAMERA PANEL.



MOD #	DATE	MOD REQUEST # - DESCRIPTION	MARK



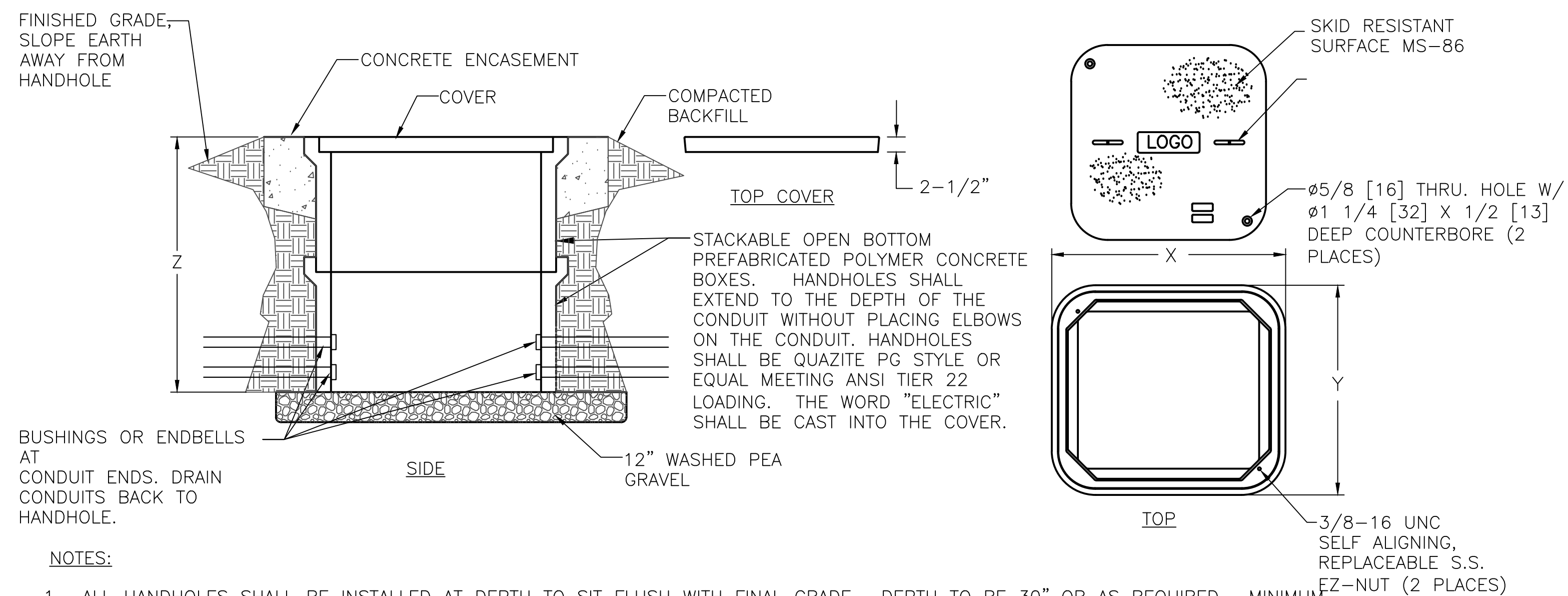
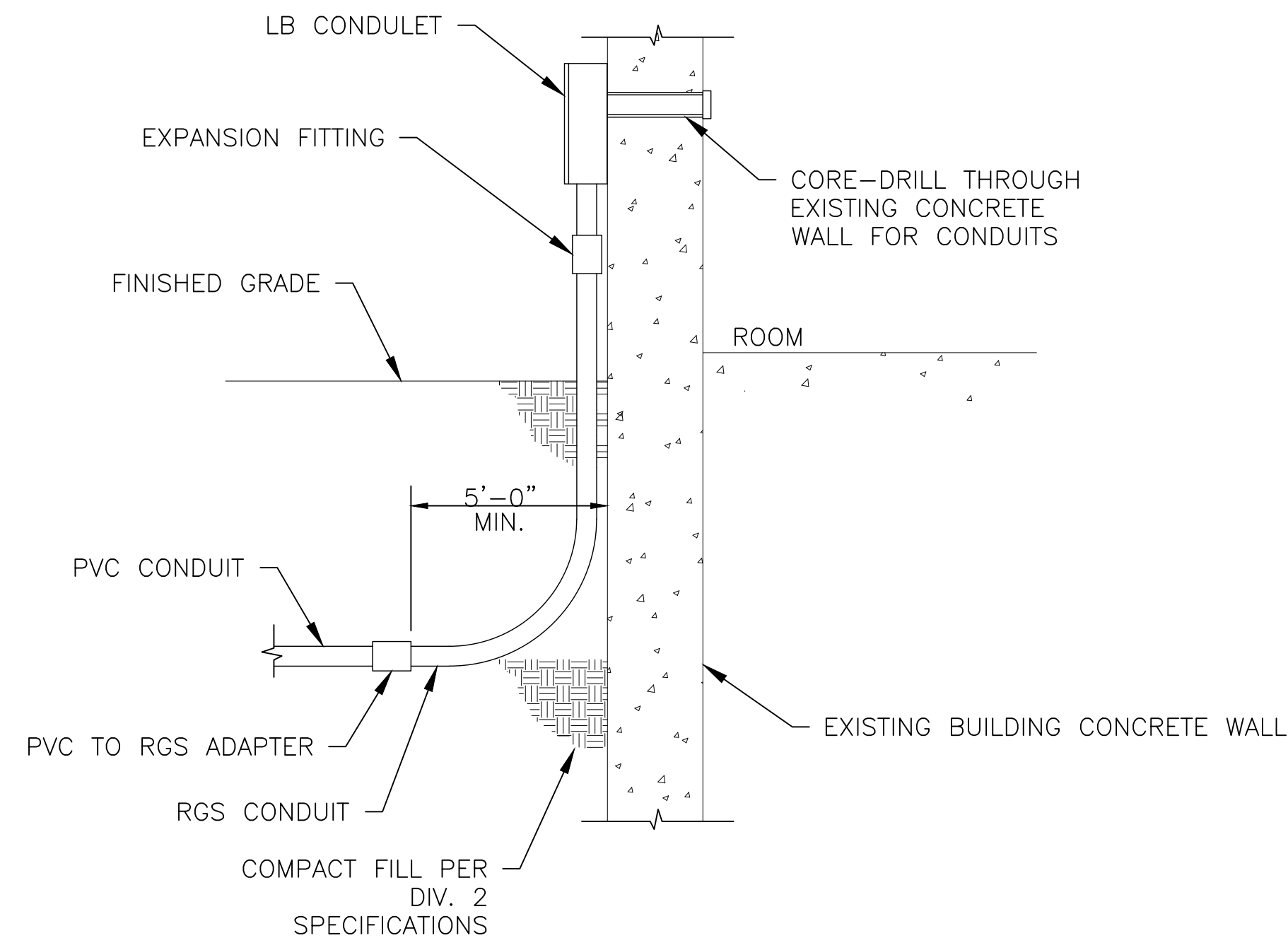
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Designed by: JAM	Date: 3/5/2026	Clad by: JPC	Rev. 	Work Order No 1612	Project Number 1503
Dwn by: JLR	Reviewed by: 	Submitted by: DPW			

FORT MCCOY
DIRECTORATE OF PUBLIC WORKS
2771 SOUTH 8TH AVE.
FORT MCCOY, WI 54606

TELECOMMUNICATIONS
SITE PLAN
PHASE 2B

SHEET
NUMBER:
T1.4
SHEET 45 of 46

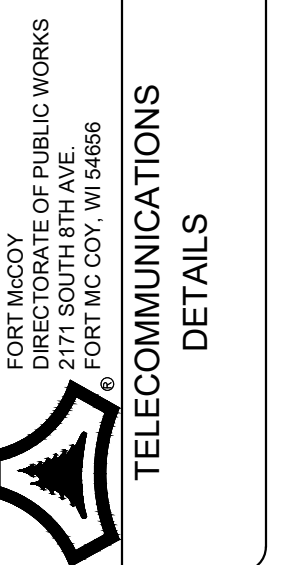


1. ALL HANDHOLES SHALL BE INSTALLED AT DEPTH TO SIT FLUSH WITH FINAL GRADE. DEPTH TO BE 30" OR AS REQUIRED. MINIMUM SIZE HANDHOLES ARE SHOWN, PROVIDE LARGER BOXES AS REQUIRED.
2. ALL HANDHOLES SHALL BE UL LISTED AND BE SUITABLE FOR ANSI TIER 22 LOADING. FOR AREAS OF DELIBERATE HEAVY VEHICLE TRAFFIC, HANDHOLES SHALL BE SUITABLE FOR AASHTO H-20 LOADING.
3. ALL HANDHOLES SHALL BE EQUAL TO QUAZITE SERIES PG OR APPROVED EQUAL.
4. ALL HANDHOLES SHALL BE GASKETED, PRECAST CONCRETE OR POLYMER COMPOSITE SPLICE BOXES SUITABLE FOR POWER AND CONTROL WIRING. PROVIDE ALL HANDHOLES WITH BASES AND STAINLESS STEEL HEX BOLTS.
5. E.C. SHALL PROVIDE CRUSHED STONE AT BASE OF HANDHOLE.
6. ALL HANDHOLES TO BE SIZED PER NEC REQUIREMENTS FOR THE CONDUITS ENTERING THEM. MINIMUM SIZE SHALL BE 36"W X 24"L X 30"D UNLESS NOTED OTHERWISE ON THE PLAN SHEETS.
7. PROVIDE COVER ENGRAVING; "COMMUNICATION".

[illegible]

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3/5/2026		
Rev.		
Work Order No		
1612		
Project Number		
1503		



SHEET
NUMBER:
T5.1
SHEET 46 of 46