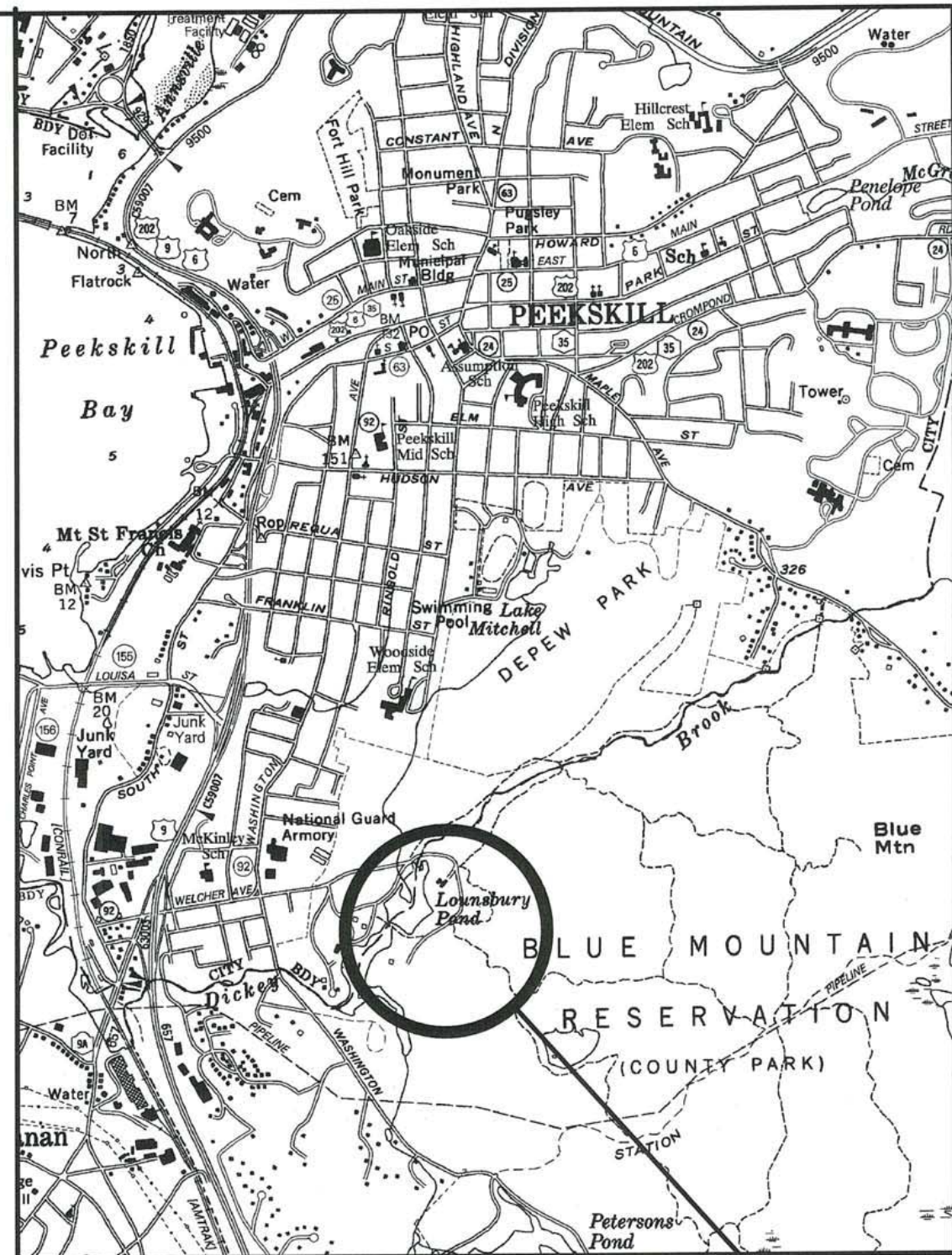


WESTCHESTER COUNTY



WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT No. 17-519
BLUE MOUNTAIN RESERVATION
SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NEW YORK



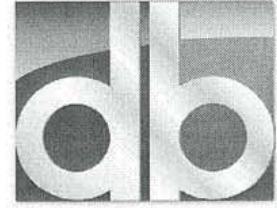

LOCATION MAP
N.T.S.


BLUE
MOUNTAIN
RESERVATION

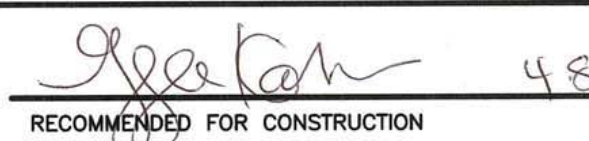
SHEET NO.	DPW FILE NO.	SHEET TITLE	DWG NO.
GENERAL			
1	24-86-T-4	COVER SHEET	G-01
2	24-86-G-5	SYMBOLS , ABBREVIATIONS, AND NOTES	G-02
3	24-86-G-6	WATER SERVICE DIAGRAM	G-03
4	24-86-G-7	SANITARY FLOW DIAGRAM	G-04
CIVIL			
5	24-86-G-8	EXISTING CONDITIONS AND DEMOLITION PLAN	C-01
6	24-86-G-9	OVERALL SITE PLAN	C-02
7	24-86-G-10	SITE PLAN NO. 1	C-03
8	24-86-G-11	SITE PLAN NO. 2	C-04
9	24-86-G-12	SITE PLAN NO. 3	C-05
10	24-86-G-13	SITE PLAN NO. 4	C-06
11	24-86-G-14	SITE PLAN NO. 5	C-07
12	24-86-G-15	SANITARY FORCE MAIN PLAN AND PROFILE NO. 1	C-08
13	24-86-G-16	SANITARY FORCE MAIN PLAN AND PROFILE NO. 2	C-09
14	24-86-G-17	SANITARY FORCE MAIN PLAN AND PROFILE NO. 3	C-10
15	24-86-G-18	BRIDGE PLANS, SECTIONS AND DETAILS 1	C-11
16	24-86-G-19	BRIDGE PLANS, SECTIONS AND DETAILS 2	C-12
17	24-86-G-20	TIMBER STAIRCASE PLAN AND SECTIONS	C-13
18	24-86-G-21	SITE DETAILS NO. 1	C-14
19	24-86-G-22	SITE DETAILS NO. 2	C-15
20	24-86-G-23	BACKFLOW PREVENTION DEVICE DETAILS	C-16
21	24-86-G-24	EROSION AND SEDIMENT CONTROL DETAILS	C-17
ELECTRICAL			
22	24-86-G-25	OVERALL SITE PLAN - EXISTING CONDITIONS AND DEMOLITION PLAN	E-01
23	24-86-G-26	OVERALL SITE PLAN - POWER PLAN	E-02
24	24-86-G-27	MAINTENANCE GARAGE AND TRAIL LODGE DEMOLITION PLANS	E-03
25	24-86-G-28	MAINTENANCE GARAGE AND RESIDENCE POWER PLANS	E-04
26	24-86-G-29	RESTROOM NO. 1 AND BATH HOUSE POWER PLANS	E-05
27	24-86-G-30	ENTRANCE TICKET BOOTH POWER PLANS	E-06
28	24-86-G-31	TRAIL LODGE POWER PLAN	E-07
29	24-86-G-32	POWER AND COMMUNICATION SINGLE LINE DIAGRAM	E-08
30	24-86-G-33	TRENCH DETAILS I	E-09
31	24-86-G-34	TRENCH DETAILS II	E-10
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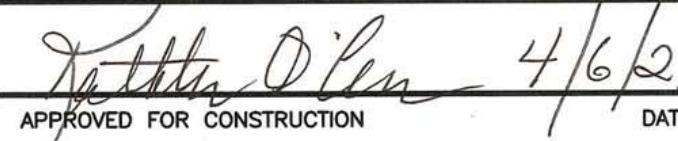
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CONSULTANT INFORMATION		 D&B ENGINEERS AND ARCHITECTS, P.C.			
4 WEST RED OAK LANE #315 WHITE PLAINS, NY 10604		TEL : (914) 467-5300 FAX : (914) 467-6103			
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	
RECORD DRAWING CERTIFICATION					
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CONTRACTOR			PROJECT COORDINATOR		
NAME _____ SIGNATURE _____ TITLE _____			NAME _____ SIGNATURE _____ TITLE _____		
DATE _____			DATE _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING					
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY GENERAL COVER SHEET			CONTRACT NUMBER 17-519		SHEET NUMBER G-01
			SHEET NO. 1 OF 35		
			SCALE: AS SHOWN DATE: APRIL 2020		
			DPW FILE NO. 24-86-T-4		REV. NO. 0


RECOMMENDED FOR CONSTRUCTION
ROBERT S. DONNELLY, P.E.
DIRECTOR OF DESIGN COORDINATION
DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION


RECOMMENDED FOR CONSTRUCTION
GAYLE M. KATZMAN, P.E.
FIRST DEPUTY COMMISSIONER
DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION


APPROVED FOR CONSTRUCTION
KATHLEEN O'CONNOR
COMMISSIONER
DEPARTMENT OF PARKS, RECREATION
AND CONSERVATION

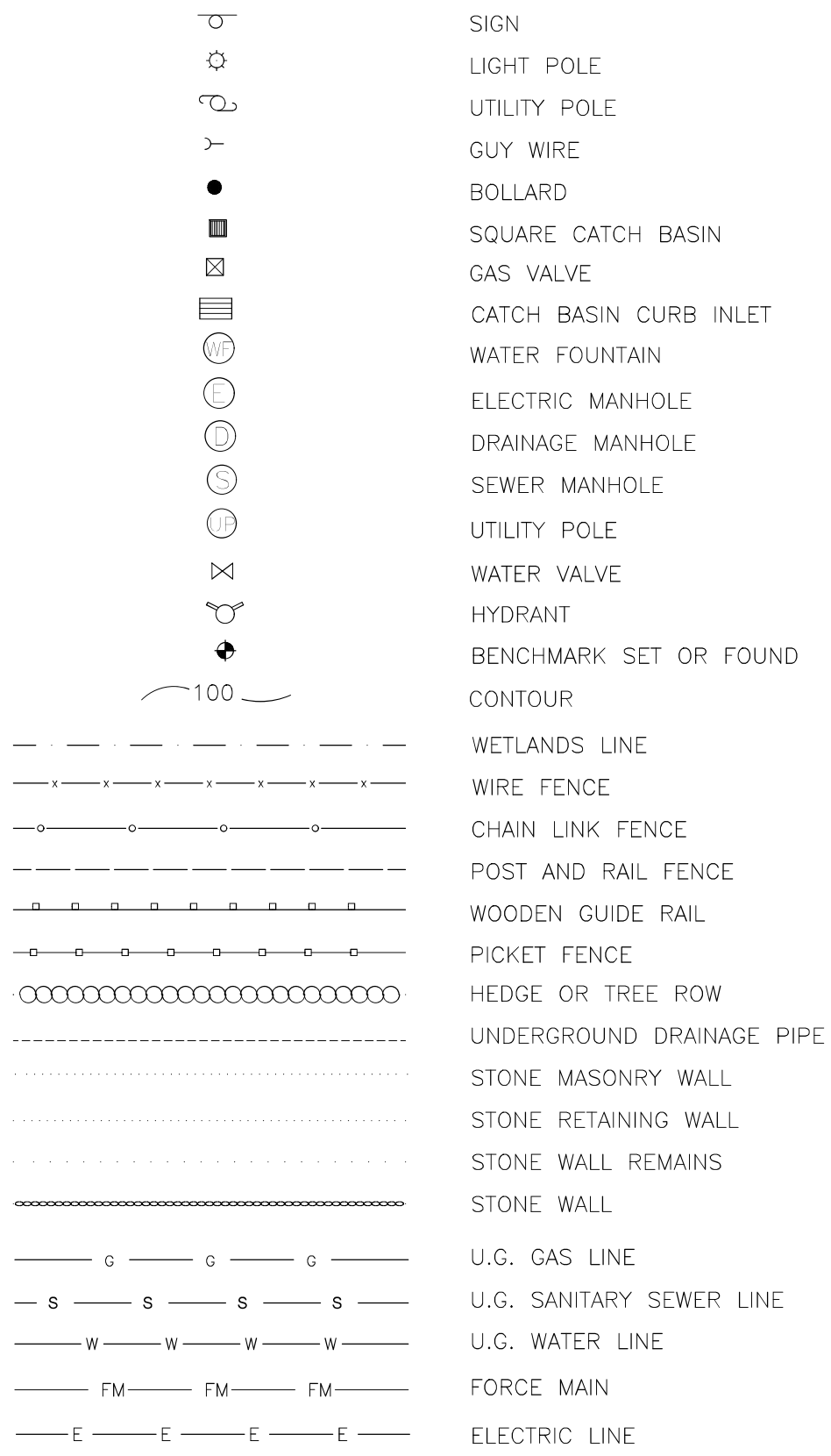

APPROVED FOR CONSTRUCTION
HUGH J. GREECHAN, JR., P.E.
COMMISSIONER
DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION

ABBREVIATIONS

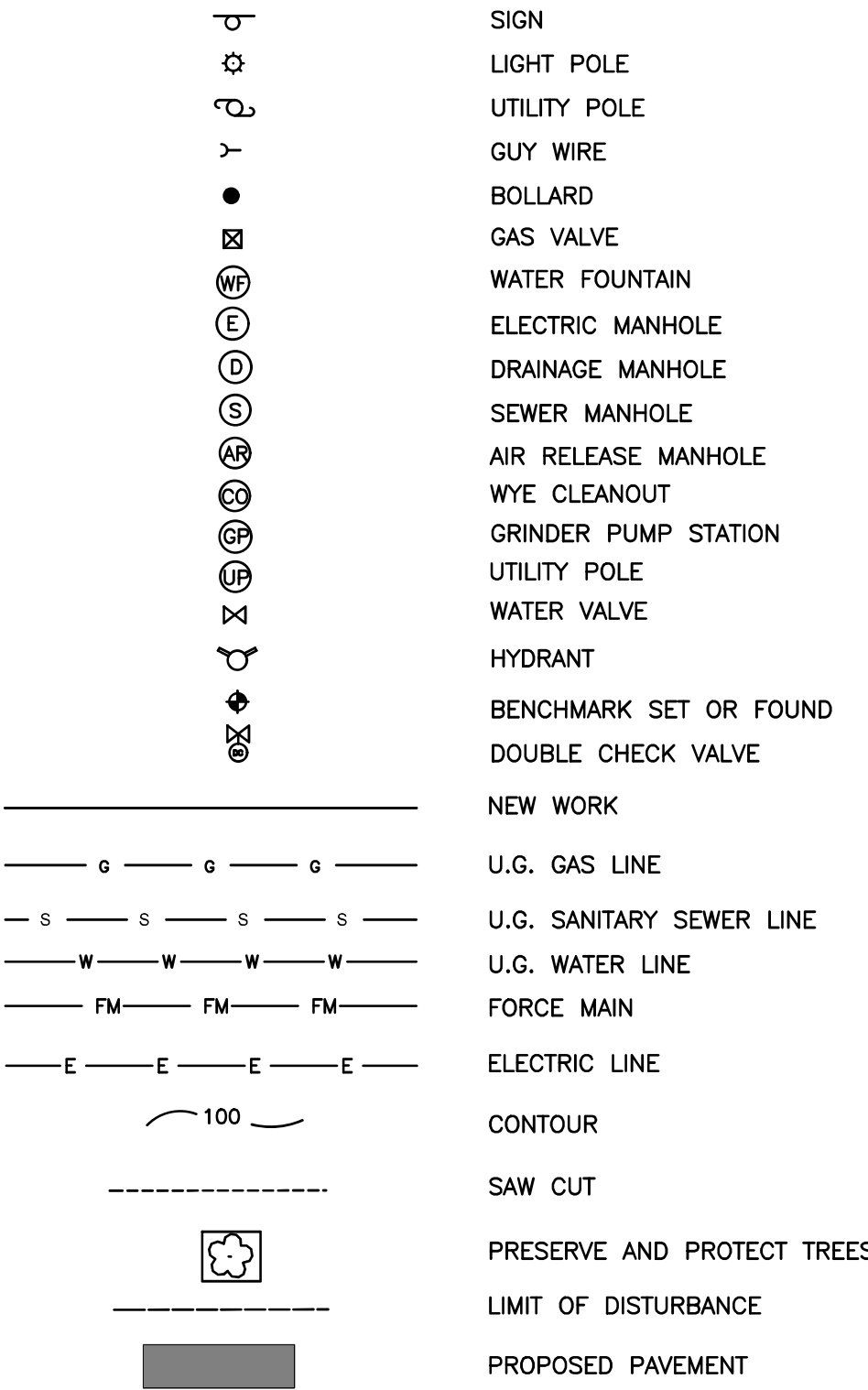
A.B.	ANCHOR BOLT	GV	GATE VALVE	SSx	SOLID SENSOR No.
A.C.	ASBESTOS CEMENT PIPE	HB	HOSE BIBB	SS	STAINLESS STEEL
ADD'L	ADDITIONAL	HDPE	HIGH DENSITY POLYETHYLENE PIPE	STD	STANDARD
AFF	ABOVE FINISHED FLOOR	HGR	HANGER	STP	SEWAGE TREATMENT PLANT
ALUM	ALUMINUM	HORIZ,H	HORIZONTAL	STIFF	STIFFENER
ARCH	ARCHITECTURAL	HR	HANDRAIL	STRUCT	STRUCTURAL
B,BOT	BOTTOM	HP	HIGH POINT	SW	SHORT WAY
B.C.	BRICK COURSE	HW	HOT WATER	T&B	TOP AND BOTTOM
BLK	BLOCK	HYD	HYDRANT	TOD	TOP OF DUCT
BM	BEAM	ID	INSIDE DIAMETER	TOL	TOP OF LOUVER
BU	BUTTERFLY VALVE	INSUL.	INSULATION	TOS	TOP OF STEEL
BV	BALL VALVE	INT	INTERIOR	TOW	TOP OF WALL
CB	CATCH BASIN	INV. EL./I.E.	INVERT ELEVATION	T/L	TRAFFIC LOOP
C.I.	CAST IRON	JT	JOINT	TYP	TYPICAL
CHK'D	CHECKERED	LBS	POUNDS	U.G.	UNDERGROUND
CJ	CONSTRUCTION JOINT	LF	LINEAR FEET	UNO,UON	UNLESS NOTED OTHERWISE
CL	CLEARANCE	LG	LONG	UP	UTILITY POLE
CMU	CONCRETE MASONRY UNIT	L.H.	LEFT HAND	VB	VACUUM BREAKER
C.O.	CLEAN OUT	LP	LOW POINT	VCP	VITRIFIED CLAY PIPE
COL	COLUMN	LLV	LONG LEG VERTICAL	VD	VOLUME DAMPER
CONC	CONCRETE	LW	LONG WAY	VERT,V	VERTICAL
CONN	CONNECTION	MAX	MAXIMUM	VTR	VENT THROUGH ROOF
CONT	CONTINUE,CONTINUOUS	MECH	MECHANICAL	WC	WATER CLOSET
CTR	CENTER	MFG	MANUFACTURING	WM	WATER MAIN
CU.	COPPER	MFTR	MANUFACTURER	WS	WATER STOP OR WATER SERVICE
CV	CHECK VALVE	MIN	MINIMUM	WV	WATER VALVE
CW	COLD WATER	MH	MANHOLE	WVB	WATER VALVE BOX
DET	DETAIL	MO	MASONRY OPENING	WWF	WELDED WIRE FABRIC
DMH	DRAIN MANHOLE	NO/#	NUMBER	SQ. FT.	SQUARE FEET
D.I.	DUCTILE IRON	NP	NON-POTABLE WATER		
DIA,/ø	DIAMETER	NTS	NOT TO SCALE		
DIM(S)	DIMENSION(S)	OC	ON CENTER		
DWG(S)	DRAWING(S)	OF	OVERFLOW		
DWLS	DOWELS	OH	OVER HEAD ELECTRICAL		
"E"	EXISTING	OPNG	OPENING		
EA	EACH	OPP	OPPOSITE		
EC	ELECTRICAL CONTRACTOR	PC	PRECAST		
EF	EACH FACE	PI	PRESSURE INDICATOR		
EL,ELEV	ELEVATION	ℙ	PROPERTY LINE		
EMH	ELECTRICAL MANHOLE	PLATF	PLATFORM		
EQ	EQUAL	PSF	POUNDS PER SQUARE FOOT		
EQUIP	EQUIPMENT	PSI	POUNDS PER SQUARE INCH		
ES	EACH SIDE	PST	PRIMARY SETTLING TANK		
EW	EACH WAY	PV	PLUG VALVE		
EXP	EXPANSION	PVB	PRESSURE VACUUM BREAKER		
EXT	EXTERIOR	PVC	POLYVINYL CHLORIDE PIPE		
FD	FLOOR DRAIN	RD	ROOF DRAIN		
FDN	FOUNDATION	REF	REFERENCE		
FIN	FINISH(ED)	REINF	REINFORCE,REINFORCING		
FIN. FL.	FINISHED FLOOR	REQ'D	REQUIRED		
FL	FLOOR	RFG	ROOFING		
FM	FORCE MAIN	R.H.	RIGHT HAND		
FW	FACE OF WALL	ROW	RIGHT OF WAY		
FTG	FOOTING	RPZ	REDUCED PRESSURE		
FL	FIRE EXTINGUISHER	SCH	SCHEDULE		
GA	GAUGE	SECT	SECTION		
GB	GLOBE VALVE	SAN	SANITARY DRAIN		
GALV	GALVANIZED	SIM	SIMILAR		
GC	GENERAL CONTRACTOR	SL	SLAB		
GM	GAS MAIN	SLV	SHORT LEG VERTICAL		
GPS	GRINDER PUMP STATION	SPECS	SPECIFICATIONS		
GS	GALVANIZED STEEL OR GAS SERVICE	SQ.	SQUARE		

SYMBOLS

CIVIL EXISTING



CIVIL NEW



GENERAL NOTES:

- ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO REVISIONS AS PER ACTUAL FIELD CONDITIONS.
- CONTRACTOR SHALL COMPLY WITH ALL NYSDEC PERMIT REQUIREMENTS AND ANY OTHER STATE, CITY, COUNTY OR TOWN AGENCY HAVING JURISDICTION. REFER TO THE CONTRACT SPECIFICATIONS, APPENDIX I, FOR PERMIT REQUIREMENTS.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MAINTAIN SERVICE TO AND PROTECT THE EXISTING MONTROSE IMPROVEMENT DISTRICT 16" WATER MAIN. SHUTDOWNS OF THIS WATER MAIN ARE NOT PERMITTED. EXISTING CORPORATION STOPS AND VALVES SHALL BE THE TIE-IN POINTS FOR NEW SERVICE.
- ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE PRIVATE UTILITY MARKOUTS FOR ALL UTILITIES IN THE WORK AREAS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED UTILITY SUB-CONTRACTOR FOR APPROVAL.
- THE CONTRACTOR SHALL OBTAIN AND HAVE ON THE JOB SITE, AT ALL TIMES, ALL PERMITS AS REQUIRED BY THE STATE, COUNTY, TOWN/VILLAGE, OR ANY OTHER PERMITTING AGENCY. THE CONTRACTOR SHALL BEAR ALL COSTS OF OBTAINING THESE PERMITS.
- CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS CONSTRUCTION MATERIALS TO THE SATISFACTION OF THE OWNER AND ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL MATERIALS RESULTING FROM THIS CONTRACT.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER AND ENGINEER TO MINIMIZE INTERRUPTIONS TO NORMAL PARK OPERATIONS.
- CONTRACTOR SHALL SUBMIT DETAILED WORK PLAN INCLUDING SEQUENCE OF OPERATIONS PRIOR TO COMMENCING WORK AND SHALL BE SUBJECT TO APPROVAL OF THE OWNER.
- THE CONTRACTOR SHALL AT ALL TIMES, PROVIDE CONVENIENT ACCESS WITH SAFE AND PROPER FACILITIES FOR THE INSPECTION OF ALL PARTS OF THE WORK. NO WORK, EXCEPT SUCH SHOP WORK AS MAY BE SO PERMITTED, SHALL BE DONE EXCEPT WITH THE CONSENT OF THE OWNER OR A REPRESENTATIVE THEREOF.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION. IN ADDITION, IF WORK SHOULD BE STOPPED AND RESTARTED FOR ANY REASON, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE.
- ITEMS SUSTAINING DAMAGE DURING CONSTRUCTION AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AND/OR REPLACED TO THE SATISFACTION AND APPROVAL OF THE OWNER AT THE CONTRACTOR'S EXPENSE. ANY DAMAGE TO PAVEMENT OR GRASS AREAS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRESERVE THE MATERIAL BELOW AND BEYOND THE LINES OF ALL EXCAVATION IN THE SOUNDTEST POSSIBLE CONDITION. ANY DAMAGE TO THE WORK DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE EXPENSE OF AND BY THE CONTRACTOR.
- NO MATERIALS OF ANY KIND SHALL BE USED UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER; ALL MATERIALS REJECTED SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE AND SHALL NOT BE OFFERED FOR INSPECTION AGAIN.
- ANY MATERIALS OR WORKMANSHIP FOUND AT ANY TIME TO BE DEFECTIVE SHALL BE REMEDIED AT ONCE, REGARDLESS OF PREVIOUS INSPECTION. THE INSPECTION AND OBSERVATION OF WORK BY THE ENGINEER IS INTENDED TO AID THE CONTRACTOR IN APPLYING LABOR AND MATERIAL TO AND IN ACCORDANCE WITH THE SPECIFICATIONS, BUT SUCH INSPECTION SHALL NOT RELEASE THE CONTRACTOR FROM ANY CONTRACT OBLIGATIONS.
- THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER SO AS TO POSE NO DANGER OR HAZARDS TO PERSONS OR PROPERTY. WHERE NECESSARY, TEMPORARY SHIELDS OR OTHER PROTECTIVE DEVICES MUST BE UTILIZED. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE OF ANY AND ALL SAFETY MEASURES. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND NEW YORK STATE DEPARTMENT OF LABOR REQUIREMENTS.

17. RESEED ALL AREAS WHERE WORK HAS OCCURRED AND/OR WHERE CONTRACTOR HAS DAMAGED EXISTING GRASS, IN ACCORDANCE WITH THE SPECIFICATIONS. STAGING AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SHALL BE SEEDED FOLLOWING COMPLETION OF ALL WORK.

18. THE CONTRACTOR SHALL HAVE A COMPETENT REPRESENTATIVE PRESENT WHO SHALL RESPOND TO ANY QUESTIONS OR REQUESTS OF THE ENGINEER IN THE PROSECUTION AND COMPLETION OF THE WORK IN CONFORMITY WITH THIS CONTRACT, AND SHALL HAVE FULL AUTHORITY TO SUPPLY LABOR AND MATERIAL IMMEDIATELY. THE CONTRACTOR SHALL ALSO HAVE A COMPETENT REPRESENTATIVE AVAILABLE TO RECEIVE TELEPHONE MESSAGES AND PROVIDE A REASONABLE REPLY AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS.

19. NEITHER THE OWNER OR ENGINEER SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR TO COMPLETE THE WORK.

20. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR SITE SAFETY AND THE SAFETY OF THE CONTRACTOR'S WORK FORCE.

21. BACKFILL AT ALL EXCAVATIONS SHALL BE PLACED IN 6" LIFTS AND SHALL ACHIEVE A COMPACTION NOT LESS THAN 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY. UNDER THE TERMS OF THE CONTRACT, THE CONTRACTOR SHALL PERFORM FIELD TESTS BY AN APPROVED LABORATORY TO ASSURE THIS COMPACTION RATE AT VARYING DEPTHS. THE CONTRACTOR SHALL HAVE THE APPROVED LABORATORY REPRESENTATIVE ON SITE WHEN DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COSTS FOR TESTING AND ANY DELAYS THAT RESULT FROM SUCH TESTING.

22. THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES AND COVERS, VALVE COVERS, WATER VALVE BOXES, DRAINAGE INLETS, ETC. AS NECESSARY TO MEET THE SURFACE OF NEW PAVEMENT OR WALKWAY AS REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE RELATED UTILITY COMPANIES, IF APPLICABLE. WARPING OF THE PAVEMENT SURFACE TO MEET THESE ITEMS SHALL NOT BE PERMITTED.

23. ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO BURIED AND OVERHEAD UTILITIES LOCATED ON PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO FACILITIES ON PUBLIC AND PRIVATE PROPERTY, SUCH AS, LANDSCAPING, DRIVEWAYS, CURBS, PAVEMENT, SIDEWALK, ETC.

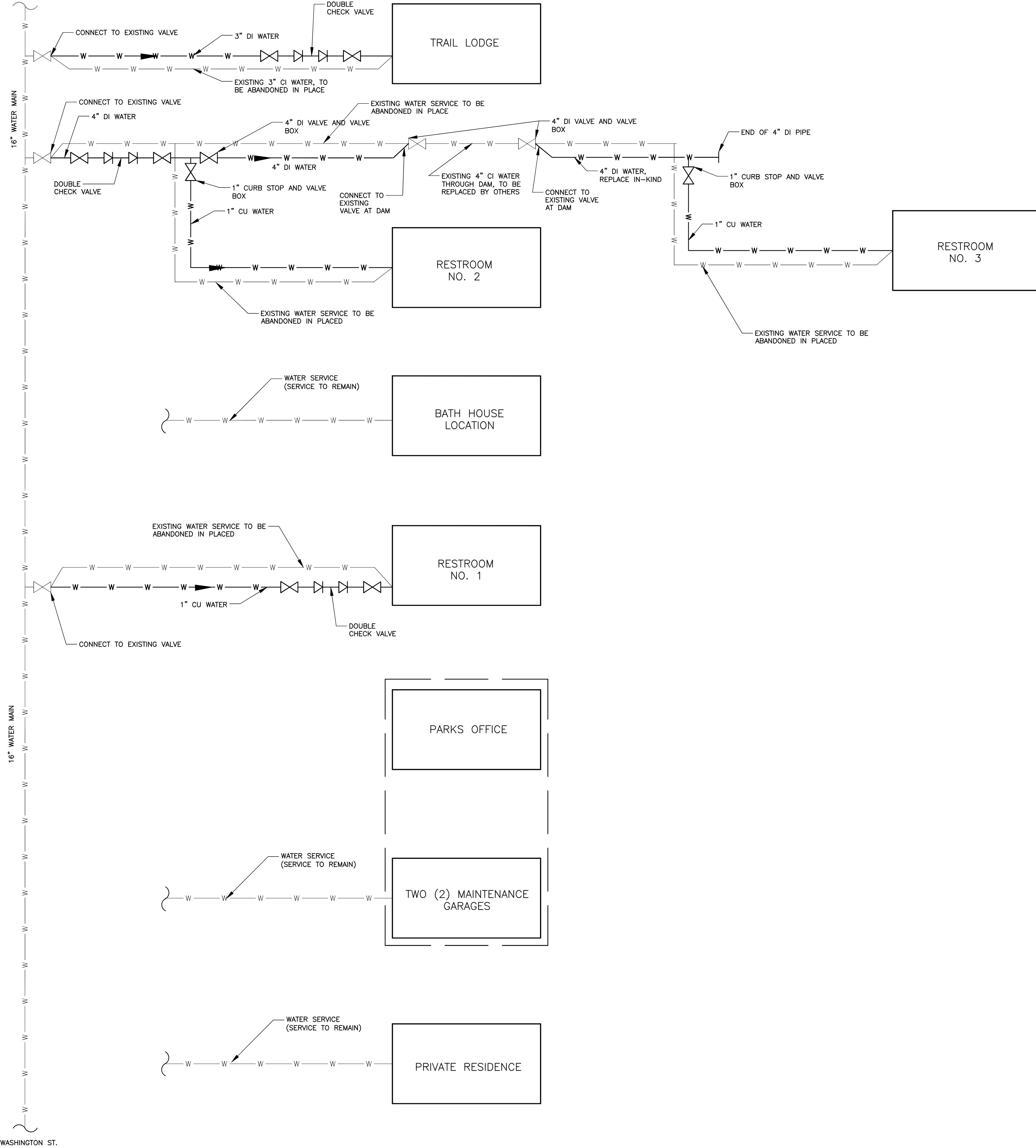
24. CONTRACTOR IS RESPONSIBLE TO COORDINATE AND VERIFY THE EXTENT OF ALL DEMOLITION WITH THE ENGINEER PRIOR TO PERFORMING THE WORK.

25. CONTRACTOR SHALL RESTORE STAGING AREA BACK TO ITS ORIGINAL CONDITION INCLUDING GRADING, SEEDING, ETC. EXISTING TREES, UTILITIES, LIGHT POLES, STONE, SIDEWALK, CURB, ETC. SHALL BE PROTECTED AND REPLACED IF DAMAGED. PROVIDE ELECTRICAL POWER, WATER, TELEPHONE, ETC. AS SPECIFIED FOR THE ENGINEERS TRAILER WHICH SHALL BE LOCATED IN THE STAGING AREA.

26. ALL ELECTRICAL INFORMATION SHOWN WITHIN THE CIVIL PLANS ARE FOR COORDINATION PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION. REFER TO ELECTRICAL SHEETS E-01 THROUGH E-99 FOR ELECTRICAL PLANS AND DETAILS.

 4 WEST RED OAK LANE WHITE PLANES, NY, 10604 (914) 467-5300		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.								RECORD DRAWING CERTIFICATION				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 17-519	SHEET NUMBER G-02																
		IN CHARGE OF RAL																SHEET NO. 2 OF 35																	
		CHECKED BY MPF																SCALE: AS NOTED DATE: APRIL 2021																	
		MADE BY RJC																DPW FILE NO.				REV. NO. 0													
																		24-86-G-5																	
				REVISION NUMBER				DATE				MADE BY				APP'D BY				REVISION				NAME _____ SIGNATURE _____ TITLE _____ DATE _____				PROJECT COORDINATOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____				BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY GENERAL SYMBOLS, ABBREVIATIONS, AND NOTES			

NORTH BORDER OF BLUE MOUNTAIN RESERVATION

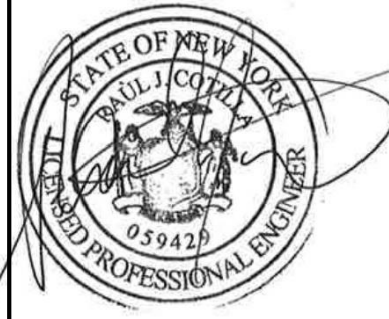


WASHINGTON ST.



4 WEST RED OAK LANE
WHITE PLANES, NY,
10604
(914) 467-5300

CONSULTANT SEAL



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ADDITION TO THIS DOCUMENT IS A
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MADE BY RJC

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	

RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
GENERAL
WATER SERVICE DIAGRAM

CONTRACT
NUMBER
17-519

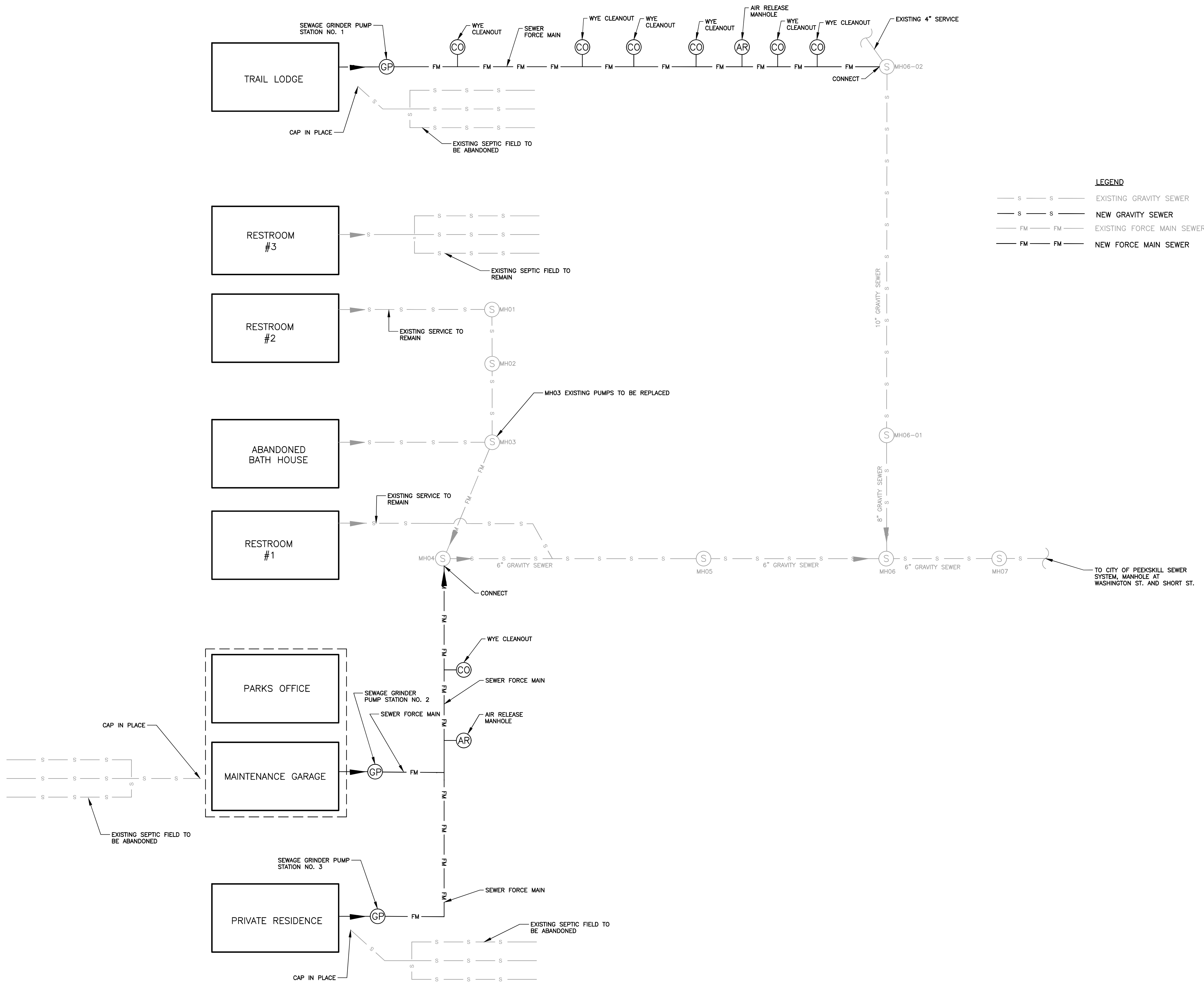
SHEET
NUMBER
G-03

SHEET NO. 3 OF 35

SCALE: AS NOTED
DATE: APRIL 2021

DPW FILE NO.
24-86-G-6

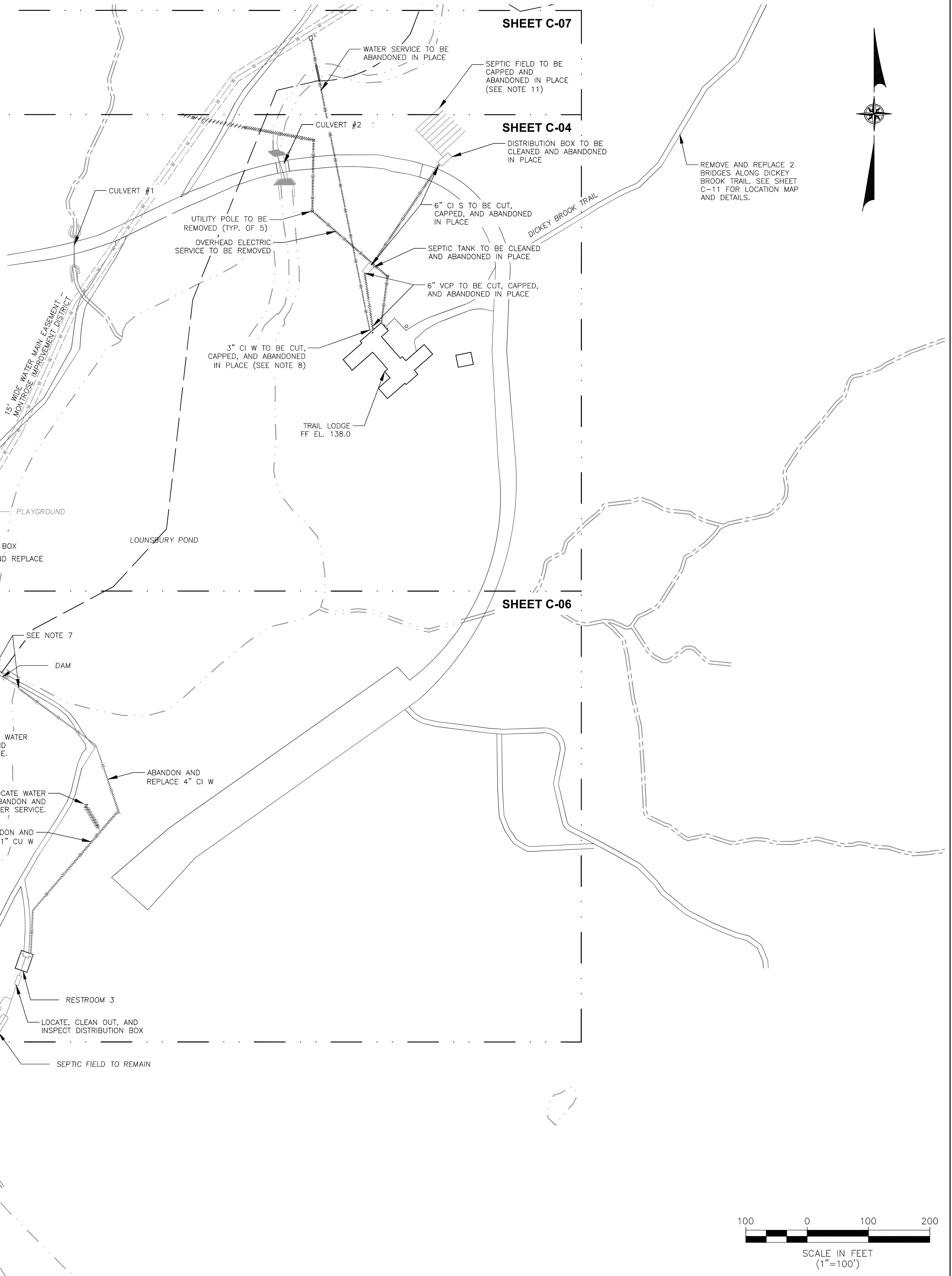
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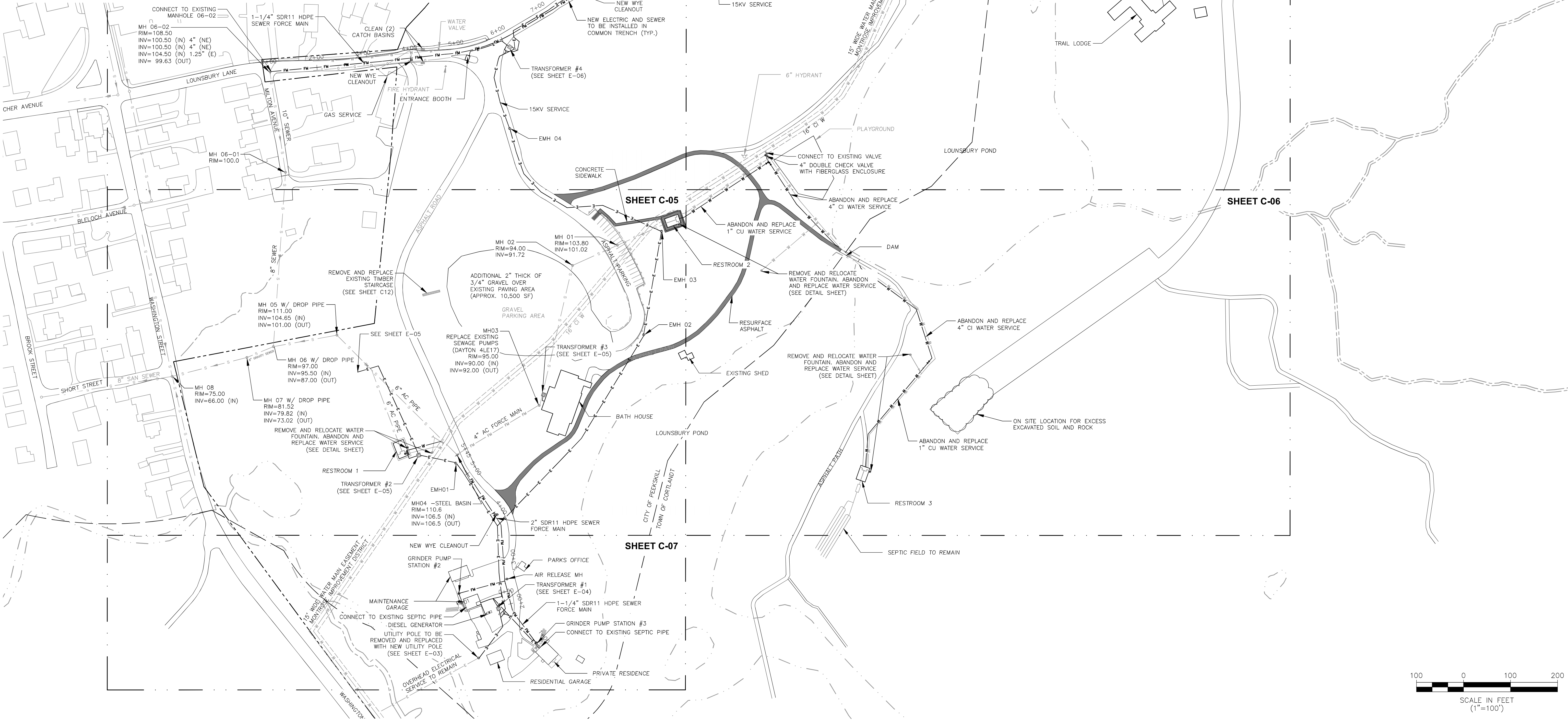
- NOTES:
1. LOCATIONS OF EXISTING UTILITIES, STRUCTURES, AND EQUIPMENT ARE APPROXIMATE. CONTRACTOR SHALL FIELD-VERIFY ALL LOCATIONS NECESSARY FOR CONSTRUCTION OF PROPOSED WORK.
 2. ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 3. CONTOUR LINES ARE SHOWN EVERY 2'. CONTOURS SHOWN WERE DOWNLOADED FROM WESTCHESTER COUNTY GIS (GEOGRAPHIC INFORMATION SYSTEMS).
 4. SANITARY SEWERS SHOWN WERE BASED ON THE FOLLOWING RECORD DRAWINGS:
 - 4.1. CITY OF PEEKSKILL SEWER MAP
 - 4.2. WESTCHESTER COUNTY DPW, BLUE MOUNTAIN, 1960 AND 1962 AS-BUILT DRAWINGS
 5. LOCATIONS OF 16" WATERMAIN WERE BASED ON THE FOLLOWING SET OF RECORD DRAWINGS: MONTROSE WATER DISTRICT, 1935, WATER LINE THROUGH BLUE MOUNTAIN RESERVATION.
 6. TRENCH FOR DEMOLITION OF PIPE SHALL BE USED FOR INSTALLATION OF NEW SERVICE.
 7. EXISTING WATER LINE WITHIN DAM TO BE REPLACED BY OTHERS.

8. ELECTRICAL, WATER, AND/OR SANITARY SERVICE TO TRAIL LODGE SHALL NOT BE SHUTDOWN FOR MORE THAN A PERIOD OF 2 CONSECUTIVE DAYS. CONTRACTOR SHALL COORDINATE SHUTDOWNS WITH THE OWNER.
9. ASPHALT PAVEMENT CROSSINGS SHALL BE SAWCUT 90 DEGREES TO PAVEMENT EDGE.
10. ACTUAL ALIGNMENT OF NEW SEWER, WATER AND ELECTRIC LINES TO BE DETERMINED DURING CONSTRUCTION BASED UPON THE APPROVAL OF THE OWNER AND THE ENGINEER.
11. THE CONTRACTOR IS ADVISED THAT THE EXISTING PIPING LOCATED AT THE FACILITY HAS NOT BEEN TESTED TO DETERMINE WHETHER IT IS CONSIDERED AN ASBESTOS-CONTAINING MATERIAL. AS A RESULT, THE CONTRACTOR SHALL HAVE THE PIPING SAMPLED BY A NEW YORK STATE DEPARTMENT OF LABOR (NYSOL) CERTIFIED ASBESTOS INSPECTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYSOL'S INDUSTRIAL CODE RULE 56 (ICR 56) AND HAVE THE SAMPLES ANALYZED BY A LABORATORY CERTIFIED UNDER THE NEW YORK STATE DEPARTMENT OF HEALTH'S ENVIRONMENTAL LABORATORY APPROVAL PROGRAM (ELAP) FOR ASBESTOS ANALYSIS. THE CONTRACTOR SHALL PROVIDE THE RESULTS OF ALL TESTING ALONG WITH A DRAWING IDENTIFYING THE TEST LOCATIONS TO THE ENGINEER. THE CONTRACTOR SHALL INCLUDE THE COST FOR THIS TESTING IN HIS BASE BID.

12. THE CONTRACTOR SHALL INCLUDE THE COST FOR ABATING PORTIONS OF THE EXISTING PIPING TO ALLOW CONNECTION WITH THE NEW PIPING IN THE ALTERNATE BID ITEM. IF THE EXISTING PIPING IS DETERMINED TO BE ASBESTOS-CONTAINING MATERIAL BY THE CONTRACTOR'S TESTING, THE PIPING SHALL BE ABATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYSOL'S INDUSTRIAL CODE RULE 56 (ICR 56) AND PAID FOR UNDER THE ALTERNATE BID ITEM. IF THE EXISTING PIPING IS DETERMINED TO NOT BE CONSIDERED AN ASBESTOS-CONTAINING MATERIAL BY THE CONTRACTOR'S TESTING, THE PIPING SHALL NOT BE ABATED AND NO PAYMENT BEYOND THE BASE BID SHALL BE MADE FOR ANY SUCH MATERIALS.
13. ALL ELECTRICAL NOTES WITHIN THE CIVIL PLANS ARE FOR COORDINATION PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION. REFER TO ELECTRICAL SHEETS E-01 THROUGH E-99 FOR ELECTRICAL PLANS AND DETAILS.



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 10. ACTUAL ALIGNMENT OF NEW SEWER, WATER AND ELECTRIC LINES TO BE DETERMINED DURING CONSTRUCTION BASED UPON THE APPROVAL OF THE OWNER AND THE ENGINEER.
 11. ALL ELECTRICAL INFORMATION SHOWN WITHIN THE CIVIL PLANS ARE FOR COORDINATION PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION. REFER TO ELECTRICAL SHEETS E-01 THROUGH E-99 FOR ELECTRICAL PLANS AND DETAILS.



**D&B ENGINEERS
AND
ARCHITECTS, P.C.**
4 WEST RED OAK LANE
WHITE PLAINES, NY,
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

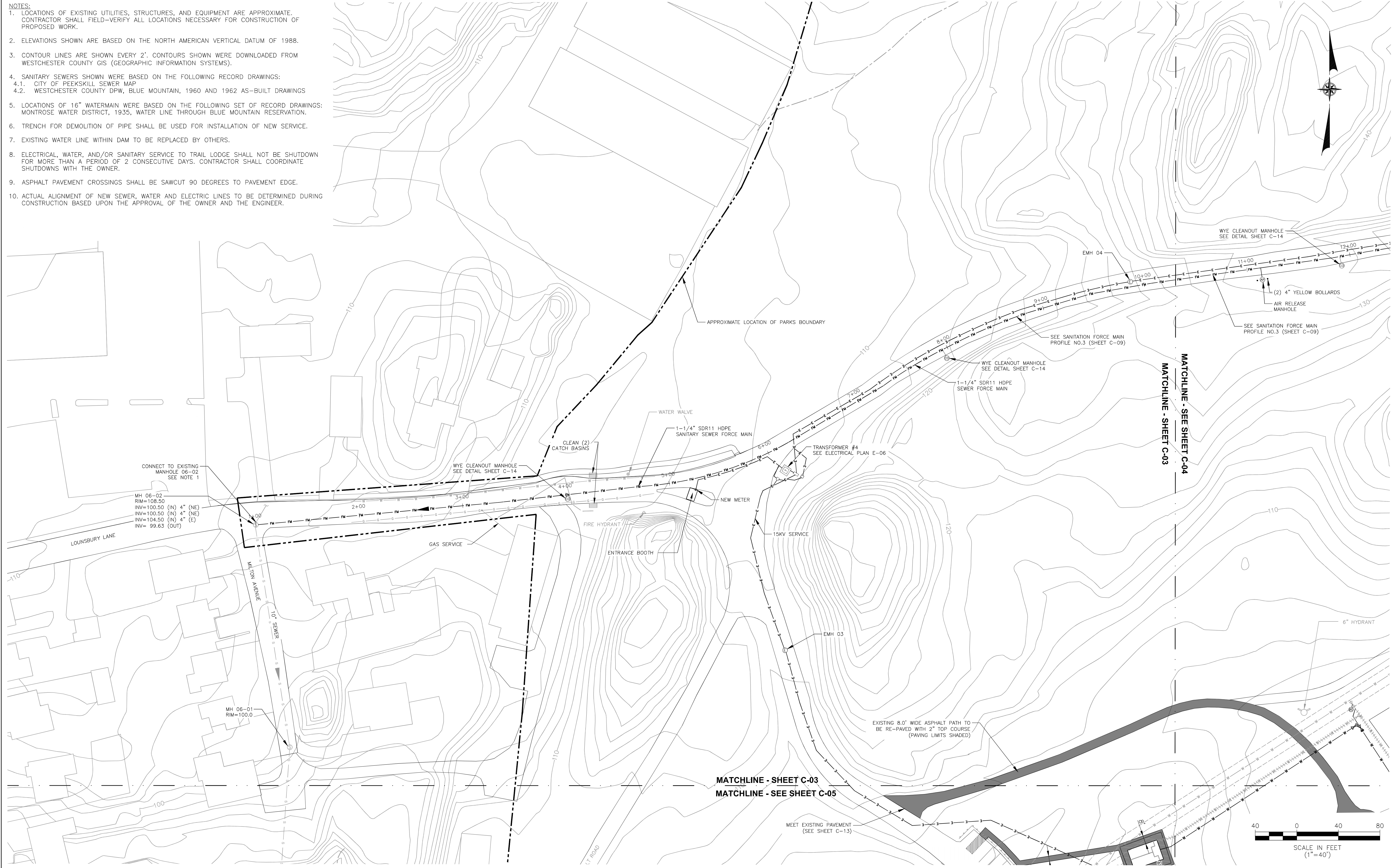
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEESKILL, NY
CIVIL
OVERALL SITE PLAN

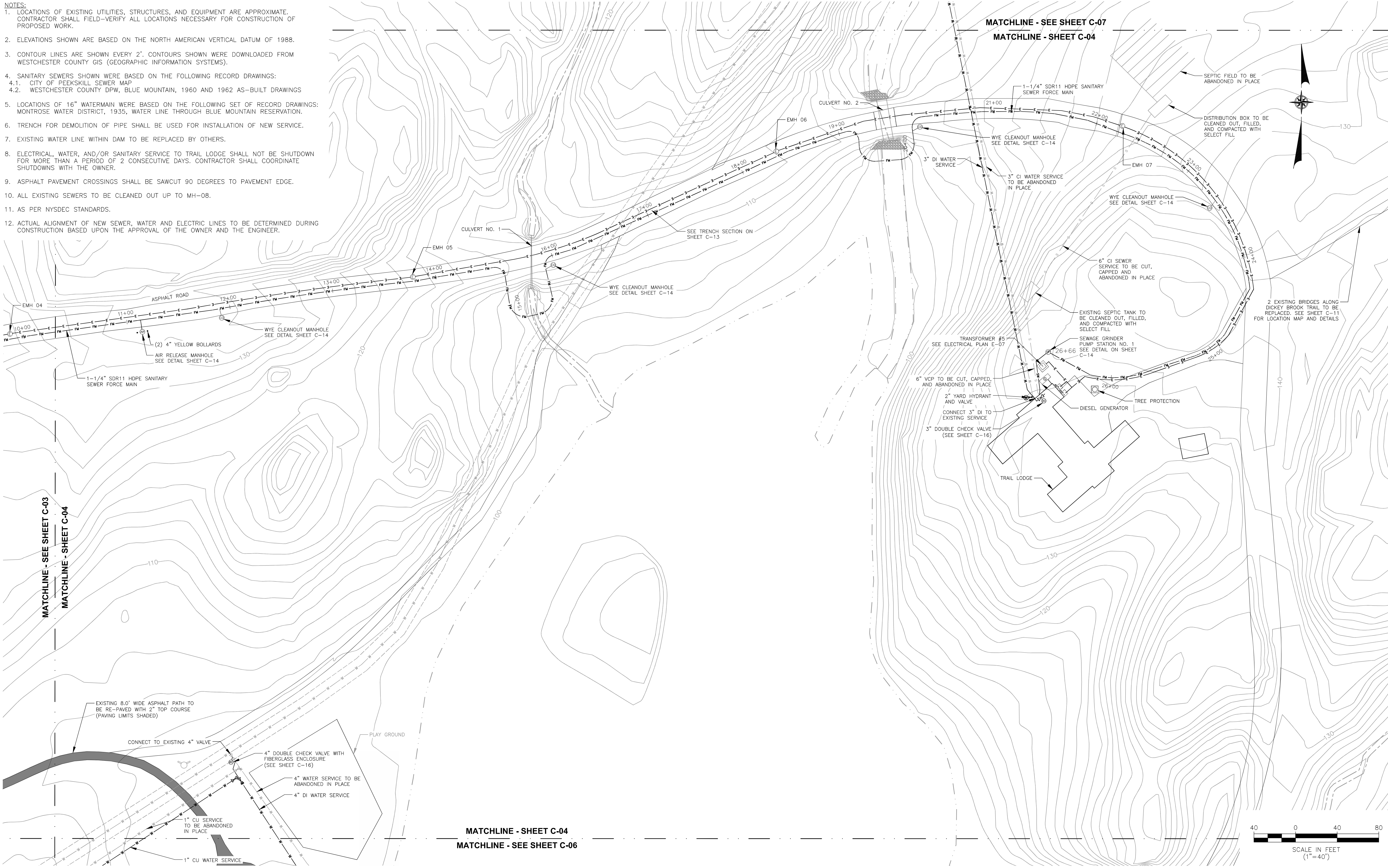
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SHEET NO. 6 OF 35	
SCALE: 1"=100' DATE: APRIL 2021 DPW FILE NO. 24-86-G-9	
REV. NO. 0	

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 D&B ENGINEERS AND ARCHITECTS, P.C. 4 WEST RED OAK LANE WHITE PLANES, NY, 10604 (914) 467-5300	 CONSULTANT SEAL	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	REVISION				RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 17-519	SHEET NUMBER C-03	
			IN CHARGE OF CHECKED BY MADE BY	RAL MPF RJC	REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	NAME SIGNATURE TITLE	PROJECT COORDINATOR NAME SIGNATURE TITLE	BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY CIVIL SITE PLAN NO. 1	

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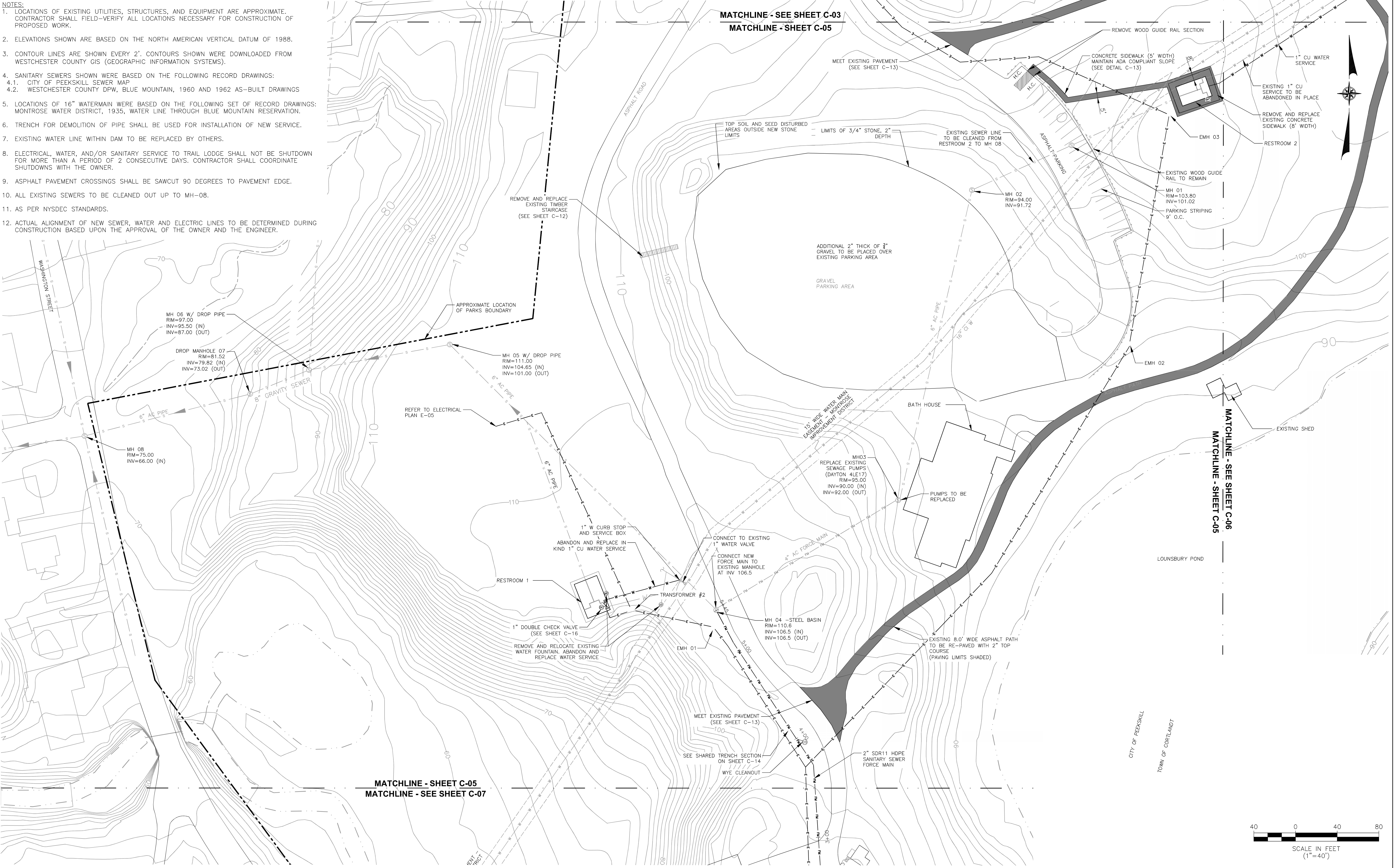
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 17-519	SHEET NUMBER C-04
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY CIVIL SITE PLAN NO. 2		SHEET NO. 8 OF 35	SCALE: 1"=40' DATE: APRIL 2021 DPW FILE NO. 24-86-G-11
			REV. NO. 0

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**D&B ENGINEERS
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CONSULTANT SEAL



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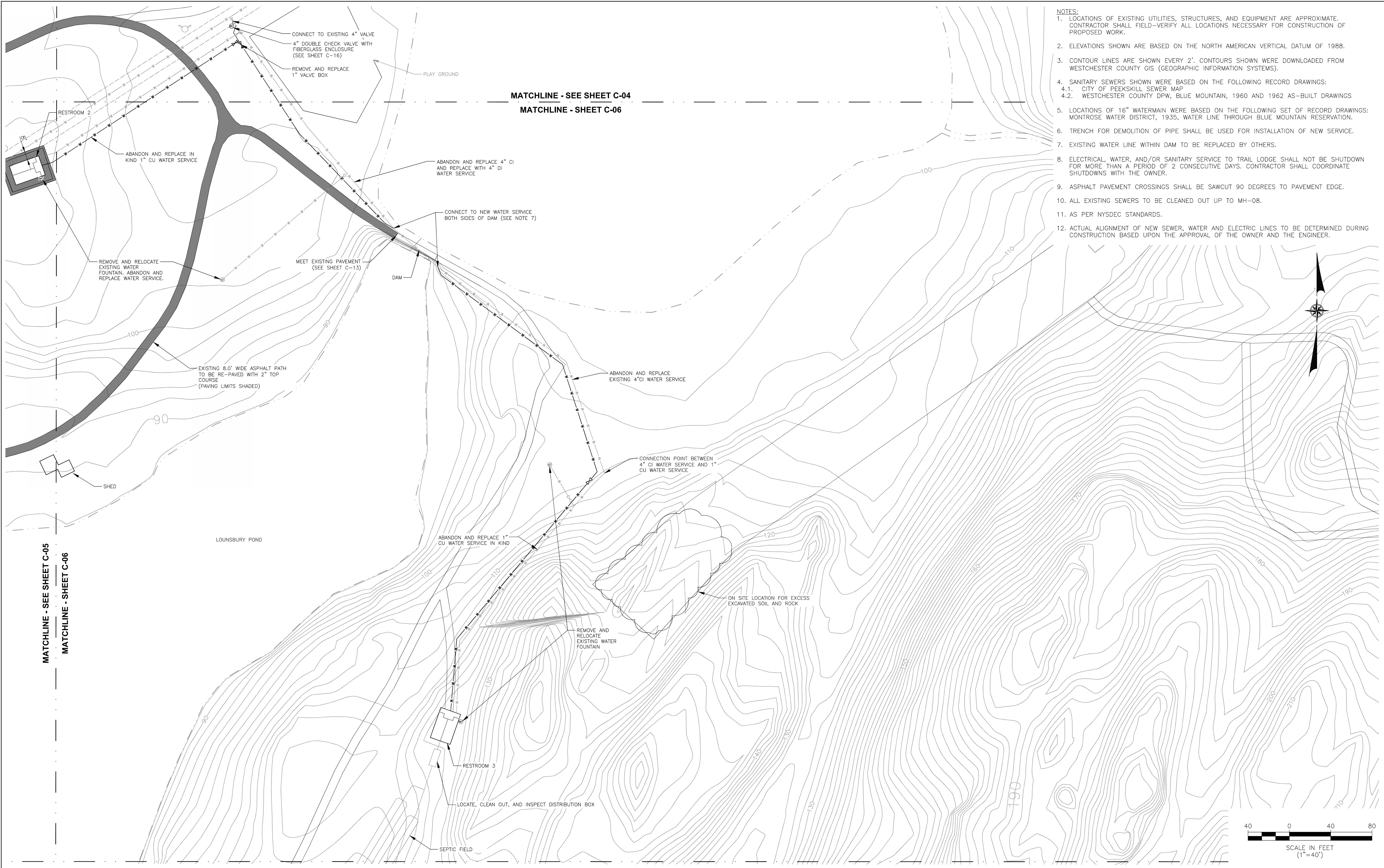
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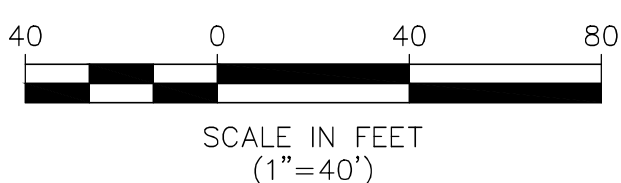
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WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
CIVIL
SITE PLAN NO. 3

CONTRACT NUMBER 17-519	SHEET NUMBER C-05
SHEET NO. 9 OF 35	
SCALE: 1"=40' DATE: APRIL 2021 DPW FILE NO. 24-86-G-12	
REV. NO. 0	



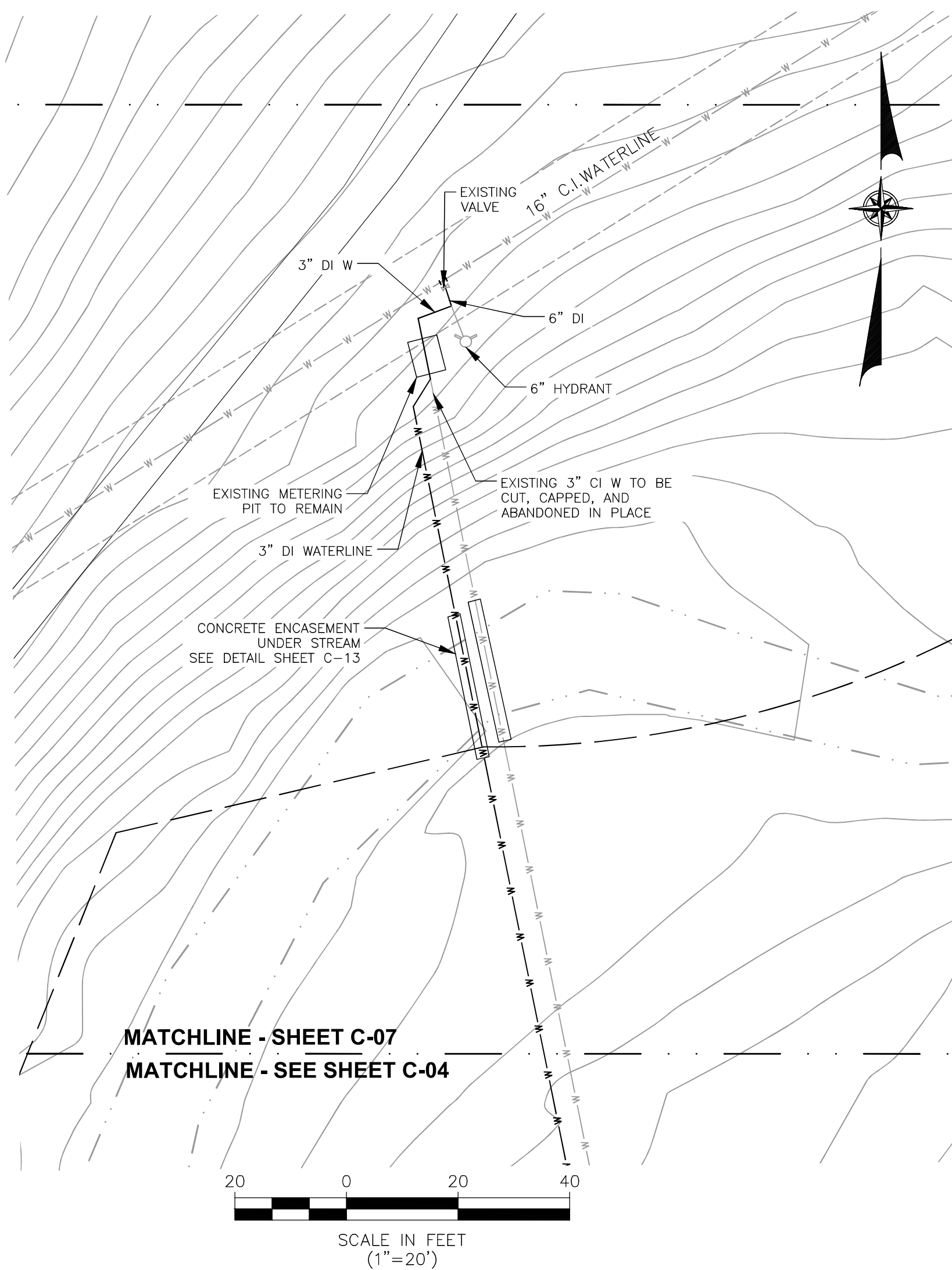
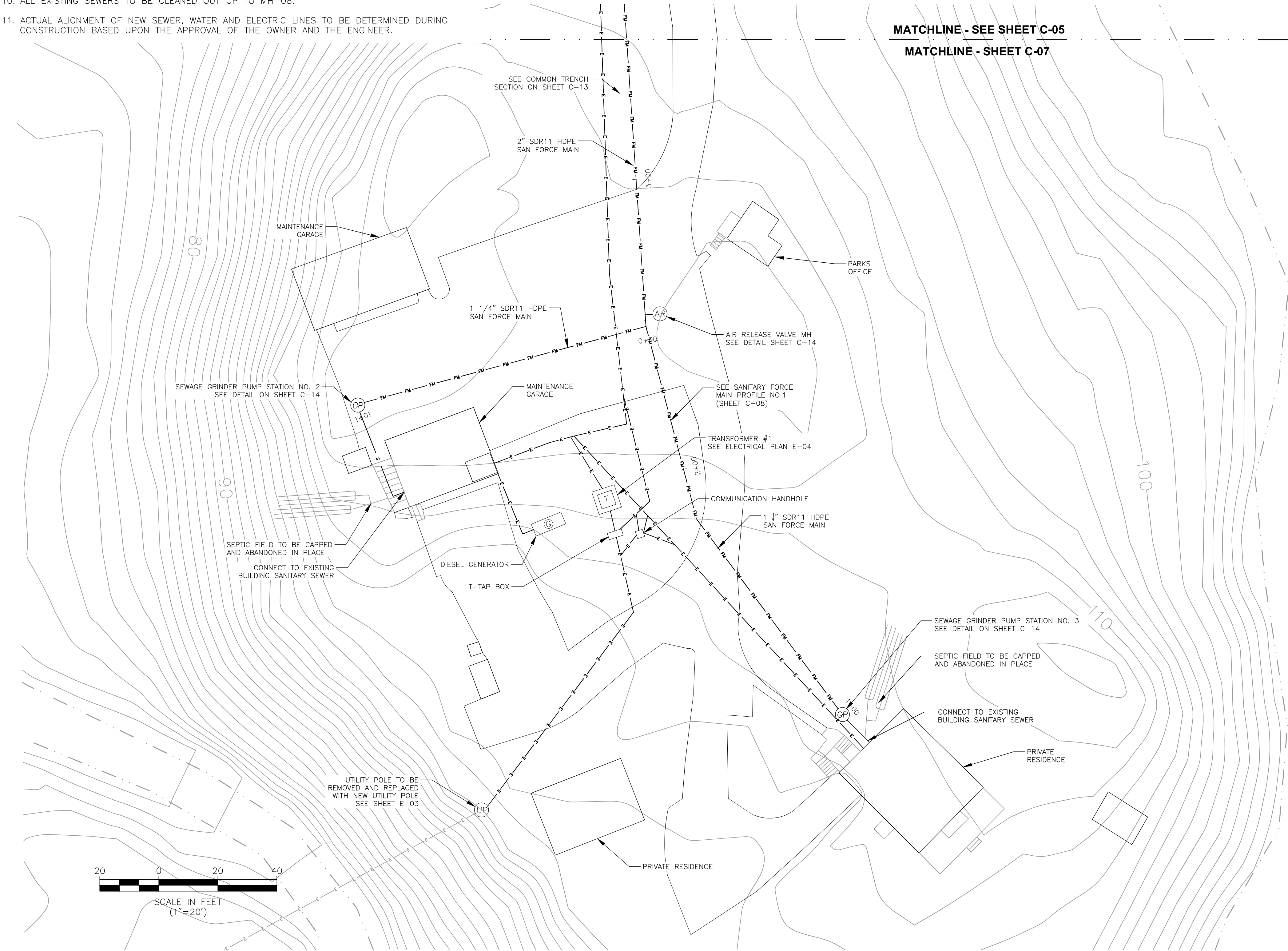
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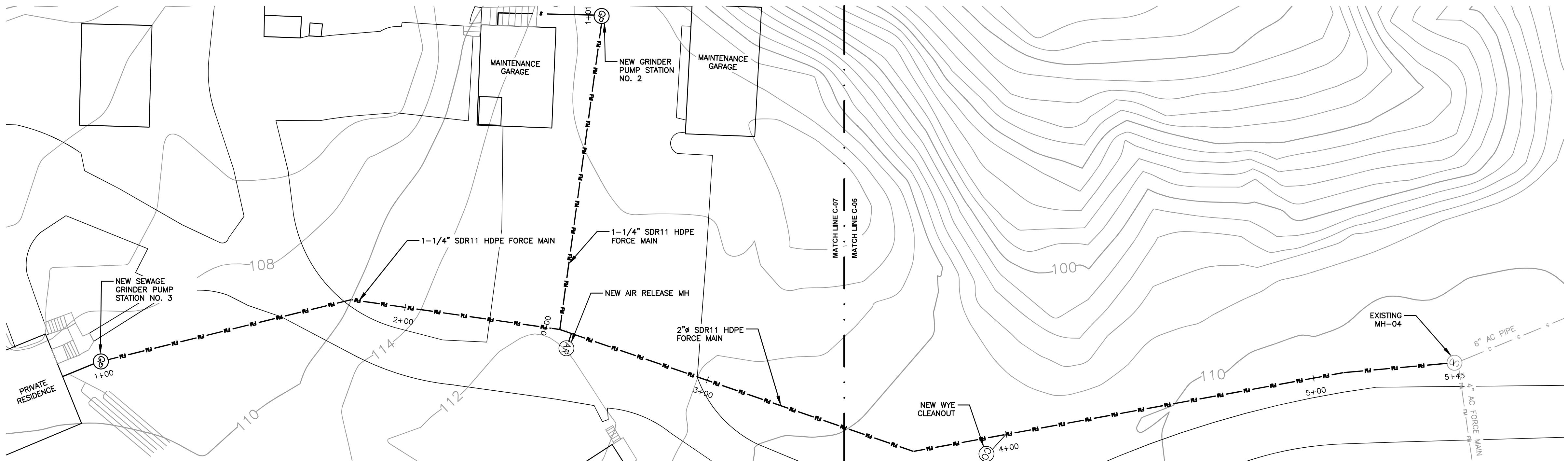
 D&B ENGINEERS AND ARCHITECTS, P.C. 4 WEST RED OAK LANE WHITE PLANES, NY, 10604 (914) 467-5300		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.								RECORD DRAWING CERTIFICATION				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 17-519	SHEET NUMBER C-06		
		IN CHARGE OF <u>RAL</u>								<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES						SHEET NO. 10 OF 35			
		CHECKED BY <u>MPF</u>												CONTRACTOR				PROJECT COORDINATOR	
MADE BY <u>RJC</u>												NAME _____				NAME _____		DATE: APRIL 2021	
												SIGNATURE _____				SIGNATURE _____		DPW FILE NO.	
REVISION NUMBER				DATE				MADE BY				APP'D BY						24-86-G-13	
												REVISION						REV. NO. 0	

BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
CIVIL
SITE PLAN NO. 4

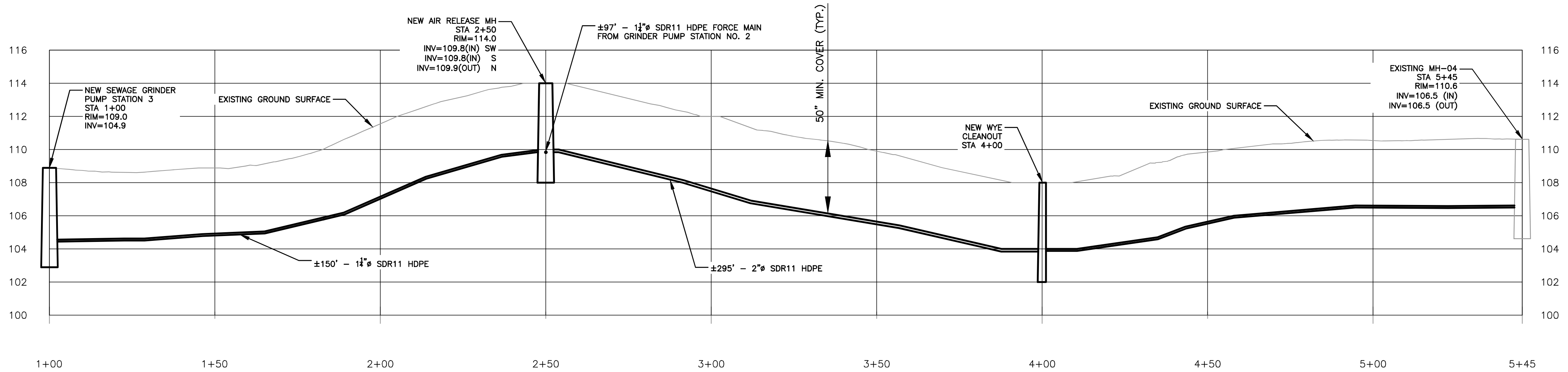
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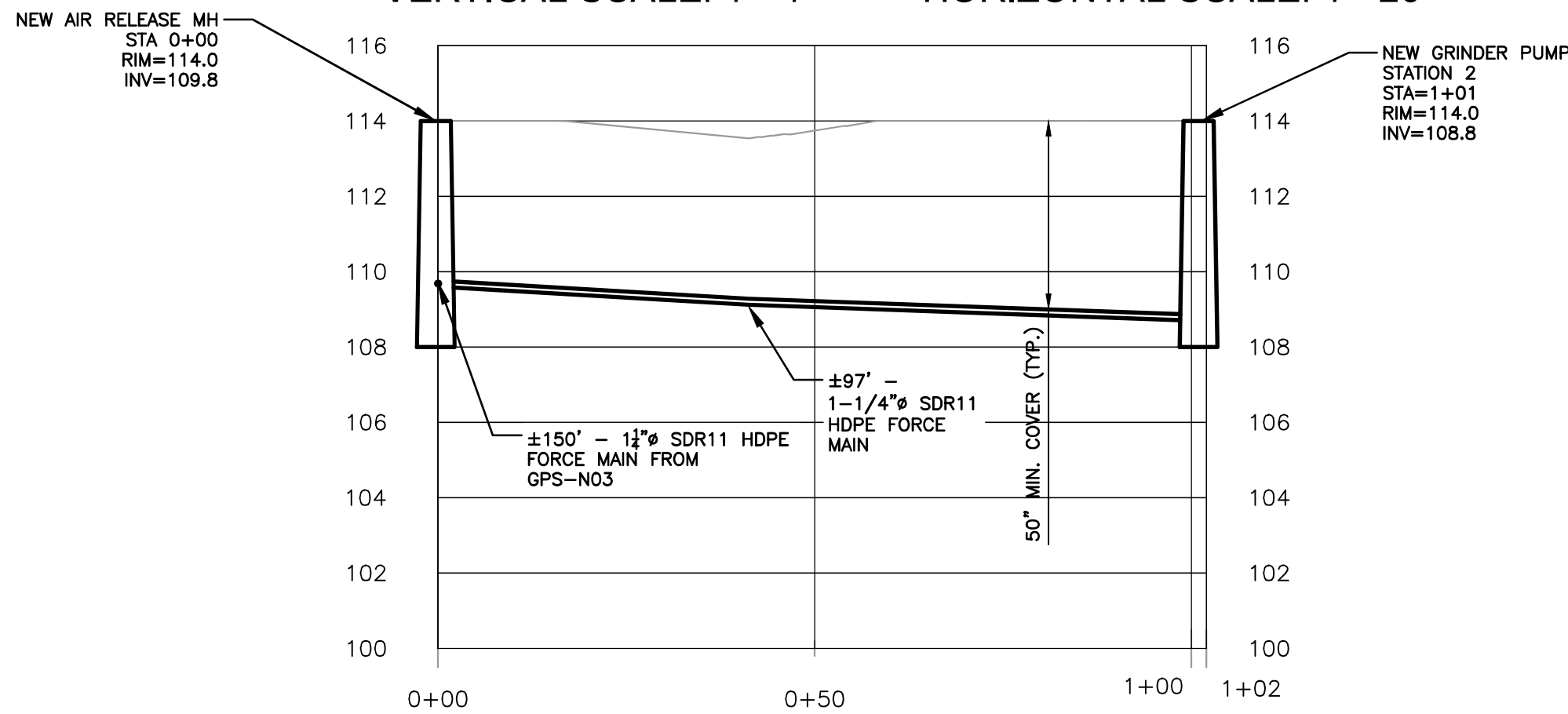
 4 WEST RED OAK LANE WHITE PLANES, NY, 10604 (914) 467-5300	 UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. IN CHARGE OF <u>RAL</u> CHECKED BY <u>MPF</u> MADE BY <u>RJC</u>	REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY CIVIL SITE PLAN NO. 5		CONTRACT NUMBER 17-519	SHEET NUMBER C-07
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								CONTRACTOR	PROJECT COORDINATOR			
								NAME _____	NAME _____			
								SIGNATURE _____	SIGNATURE _____			
								TITLE _____ DATE _____	TITLE _____ DATE _____			



SANITARY FORCE MAIN PLAN (GPS NO 3 TO MH-04)
SCALE: 1"=20'



SANITARY FORCE MAIN PROFILE (GPS-N03 TO MH-04)
VERTICAL SCALE: 1"=4' HORIZONTAL SCALE: 1"=20'



SANITARY FORCE MAIN PROFILE (AIR-RELEASE MH TO GRINDER PUMP STA. 2)
VERTICAL SCALE: 1"=4' HORIZONTAL SCALE: 1"=20'

**D&B ENGINEERS
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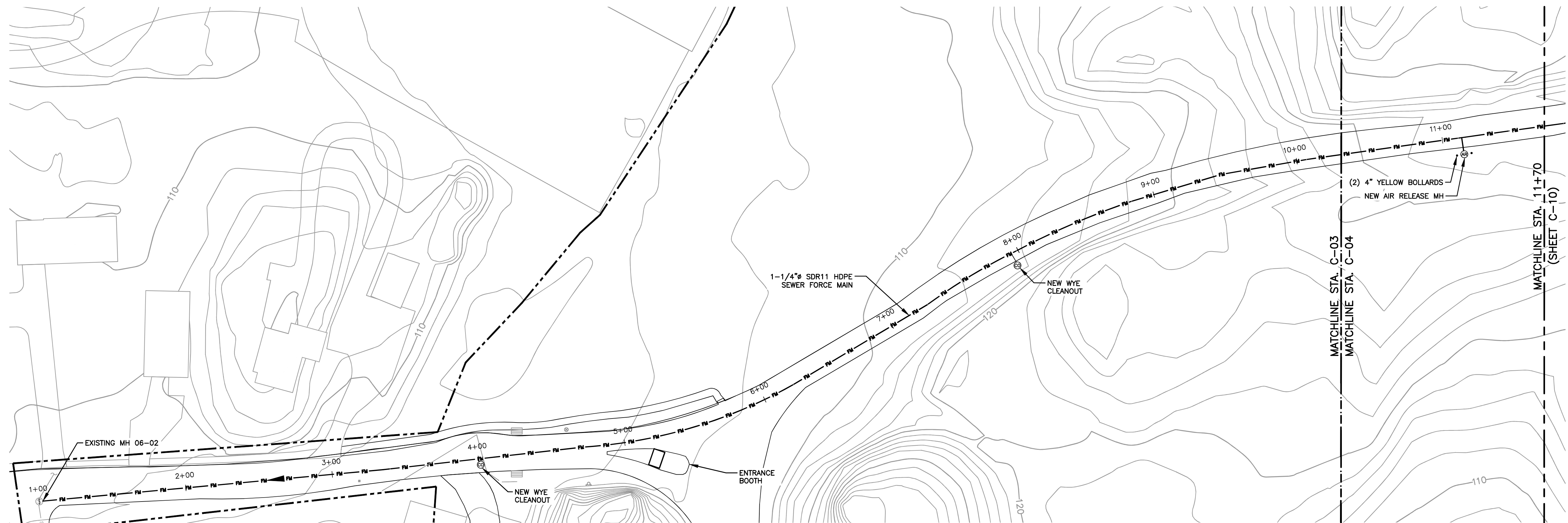
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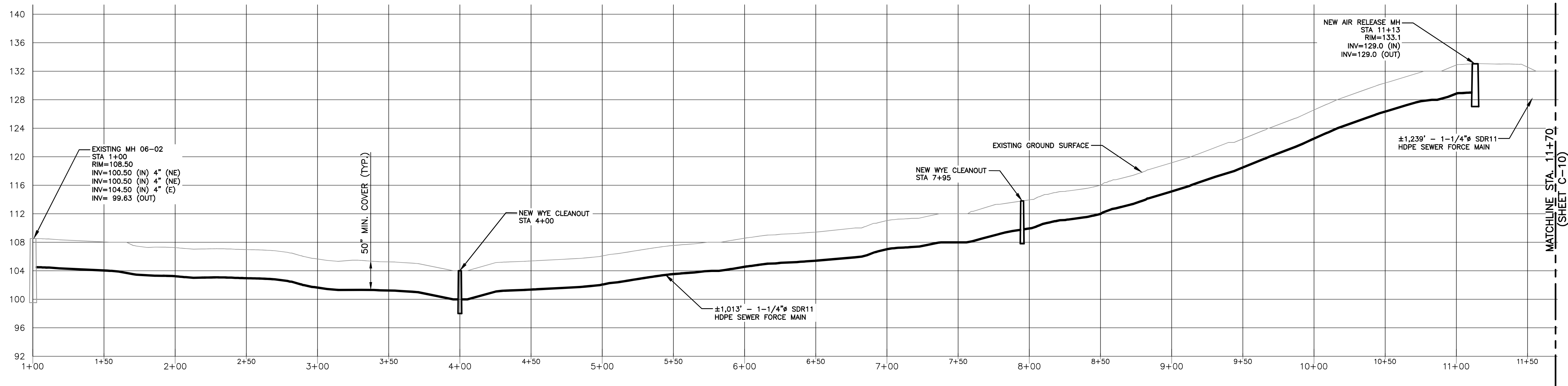
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TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
CIVIL
SANITARY FORCE MAIN PLAN AND PROFILE NO. 1

CONTRACT NUMBER 17-519	SHEET NUMBER C-08
SHEET NO. 12 OF 35	
SCALE: AS NOTED DATE: APRIL 2021	
DPW FILE NO. 24-86-G-15	REV. NO. 0



SANITARY FORCE MAIN PLAN (MH 06-02 TO GPS NO 1)
HORIZONTAL SCALE: 1"=40'



SANITARY FORCE MAIN PROFILE (MH 06-02 TO GPS NO 1)
VERTICAL SCALE: 1"=8'
HORIZONTAL SCALE: 1"=40'

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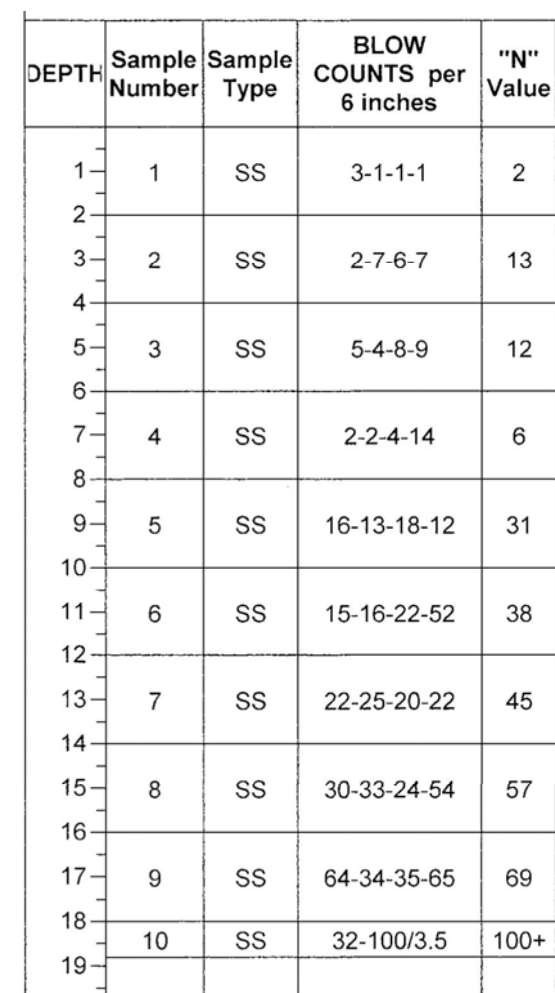
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WESTCHESTER COUNTY, NEW YORK
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DIVISION OF ENGINEERING
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
CIVIL
SANITARY FORCE MAIN PLAN AND PROFILE NO. 2

CONTRACT NUMBER 17-519	SHEET NUMBER C-09
SHEET NO. 13 OF 35	
SCALE: AS NOTED DATE: APRIL 2021 DPW FILE NO. 24-86-G-16	
REV. NO. 0	



AS MANUFACTURED BY LAMINATED CONCEPTS INC. OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.

1/2" THK. NEOPRENE BEARING PAD MIN. 50 HARDNESS AND MIN. 800 PSI STRENGTH (TYP.)

11'-2 1/8"

10'-9 1/8"

3'-6"

1'-0"

1'-9 1/2"

1'-9 1/2"

1'-9 1/2"

1'-9 1/2"

1'-9 1/2"

1'-9 1/2"

1'-9 1/2"

2"

6"

6"

13'

ANCHOR AT BASE OF BRIDGE HOLE IN AT THE F. (TYP.)

CONCRETE ON WALL FOUNDATION DETAILS

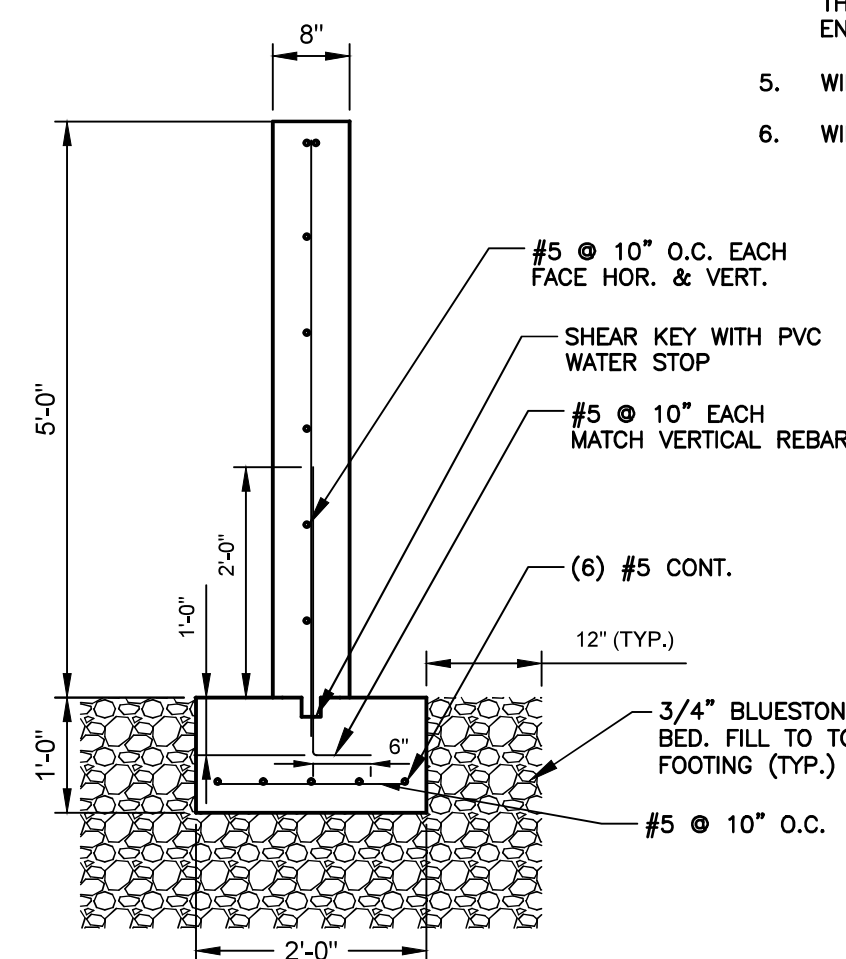
SECTION - LOWER BRIDGE

DICKEY BROOK

CONCRETE FOOTING
CONCRETE FOUNDATION WALL
13'-0" (SEE LOWER BRIDGE SECTION)
4' (TYP.)
3" COVER
#5 @ 10" O.C.
HOR. & VERT.
5
C-11
45°
3" COVER
3" COVER

FOUNDATION WALL NOTES

1. ANCHOR BOLTS SHALL BE 6" MIN. FROM THE OUTER EDGE OF FOUNDATION
2. ONE SIDE OF BRIDGE SHALL HAVE A SLOTTED HOLE IN THE STEEL ANGLE AT THE ANCHOR BOLT INSERTS.
3. ANY VOIDS, OBSTACLES, OR ORGANIC MATERIAL ENCOUNTERED DURING EXCAVATION AND FOUNDATION INSTALLATION SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL APPROVED BY THE ENGINEER.
4. ACTUAL LOCATION OF BRIDGE TO BE DETERMINED IN THE FIELD AS PER APPROVAL OF OWNER AND ENGINEER.
5. WINGWALL DEPTH WILL BE 4' BELOW GRADE.
6. WINGWALL WILL BE EMBEDDED IN VIRGIN SOIL.



PLAN - LOWER BRIDGE
SCALE: 1"=10'

33'-0"

4" DEPTH 3/4" GRAVEL BLUE-STONE FILL TO MEET EXISTING GRADE (TYP.)

NATIVE FILL (TYP.)

6" MIN. DISTANCE GRADE TO TOP OF ABUTMENT (TYP.)

3'-0" MIN.

30'-8"

PROPOSED GRADE

EXISTING STONE SUPPORT TO BE DEMOLISHED (LOCATION APPROXIMATE) (TYP.)

CONCRETE FOUNDATION (TYP.)

12" (TYP.)

3/4" BLUESTONE BED. FILL TO TOP OF FOOTING (TYP.)

ELEVATION 198.5

ELEVATION 207.5

EXISTING GRADE (TYP.)

5% MAX SLOPE

AS MANUFACTURED BY LAMINATED CONCEPTS INC. OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.

3/4"x6"x24" EMBED F ROD W/ DOUB R3X3R. ONE SID SHALL HAVE A SLO THE STEEL A ANCHOR BOLT I

FOUR SE

This topographic map illustrates the Boundary Trail area, highlighting proposed bridge replacements and trail features. The map includes contour lines indicating elevation and a dashed rectangular box indicating the area covered by Sheet C-02. Key features labeled include:

- UPPER BRIDGE (TO BE REPLACED)**: Located at the top right of the map.
- DICKEY BROOK TRAIL**: A trail segment branching off the main trail.
- CROSSOVER TRAIL**: A trail segment crossing the main trail.
- LOWER BRIDGE (TO BE REPLACED)**: Located at the bottom right of the map.
- BOUNDARY TRAIL**: The main trail running through the area.
- SEE SHEET C-02**: A label pointing to the dashed rectangular box, indicating the area covered by the next sheet in the series.

3/4" x 24" EMBED F1554 ANCHOR ROD W/ DOUBLE NUT BASE: 3/8" x 3x3R. ONE SIDE OF BRIDGE SHALL HAVE A SLOTTED HOLE IN THE STEEL ANGLE AT THE ANCHOR BOLT INSERT.

EXISTING GRADE

PROPOSED GRADE

4,000 PSI CONCRETE FOUNDATION (TYP.)

(2) #5 BARS AT TOP OF FOUNDATION

3/4" CHAMFER (TYP.)

PROPOSED 4" DEPTH 3/4" GRAVEL BLUE-STONE FILL TO MEET EXISTING GRADE (TYP.)

6" (TYP.)

1-1/2"

1-5/8"

3" COVER (TYP.)

7'-6"

#5 @ 10" EACH FACE HOR. & VERT.

#5 @ 10" EACH MATCH VERTICAL REBAR

SHEAR KEY WITH PVC WATER STOP (TYP.)

12" (TYP.)

11"

6"

1-40"

3" COVER

11"

1'-6"

#5 @ 10" O.C.

(6) #5 CONT.

3/4" BLUESTONE GRAVEL BED. FILL TO TOP OF FOOTING (TYP.)

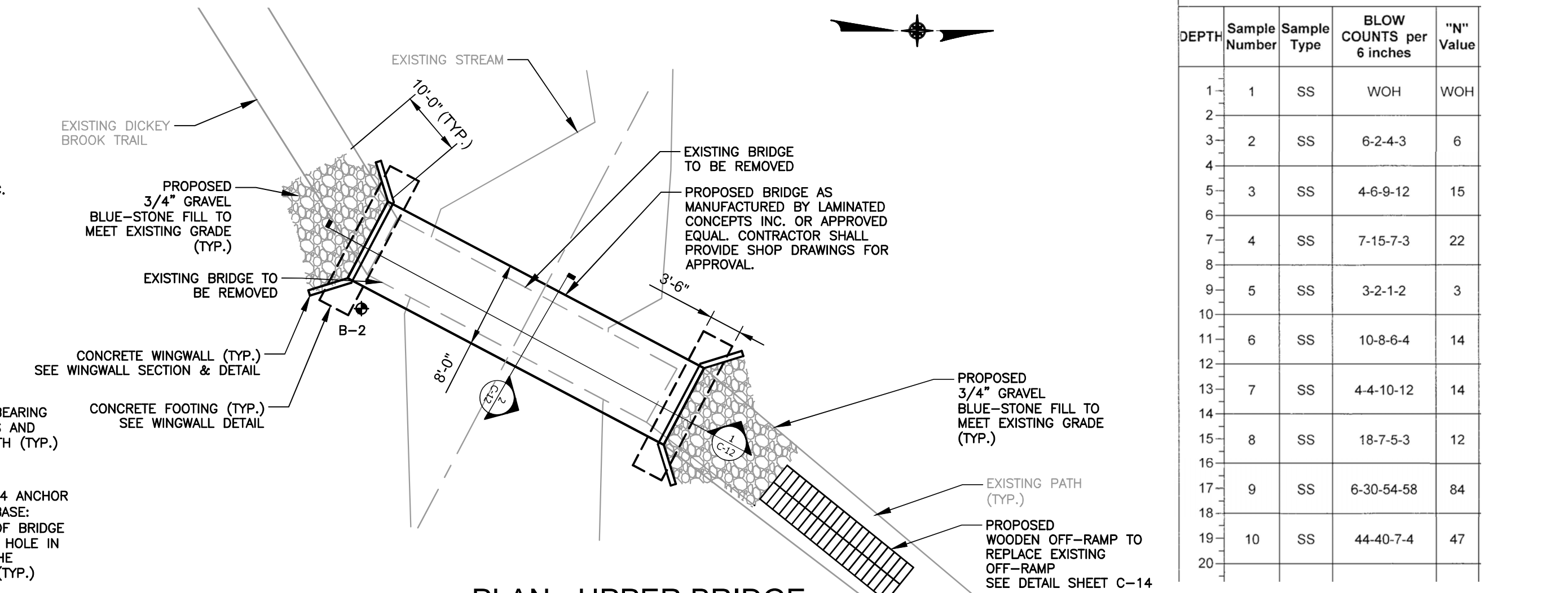
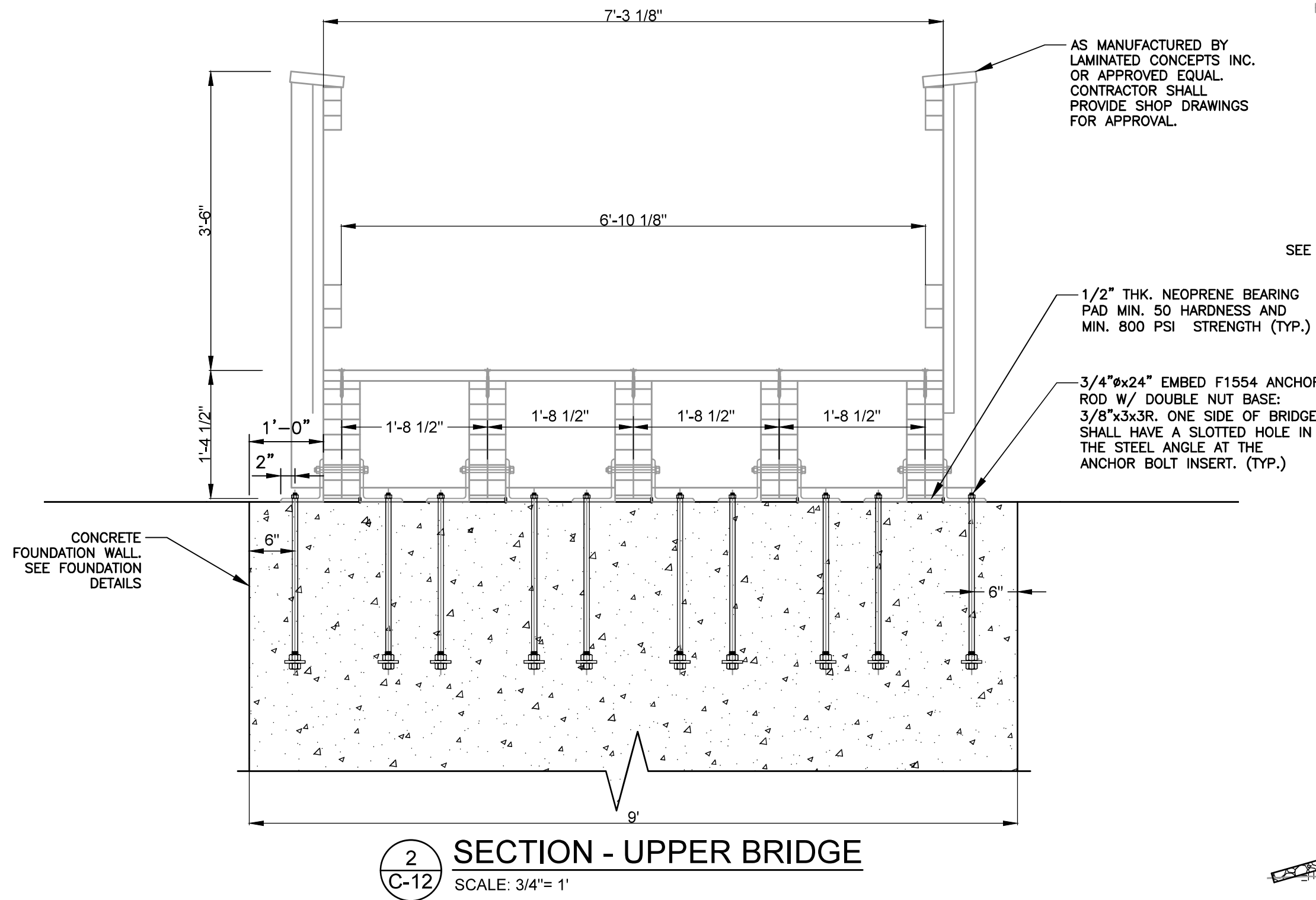
CONSULTANT SEAL

STATE OF NEW YORK
PAUL J. COTTER
059429
LICENSED PROFESSIONAL ENGINEER

CONTRACT NUMBER 17-519	SHEET NUMBER C-11
SHEET NO. 15 OF 35	
SCALE: AS NOTED DATE: APRIL 2021	
DPW FILE NO. 24-86-G-18	REV NO. 0

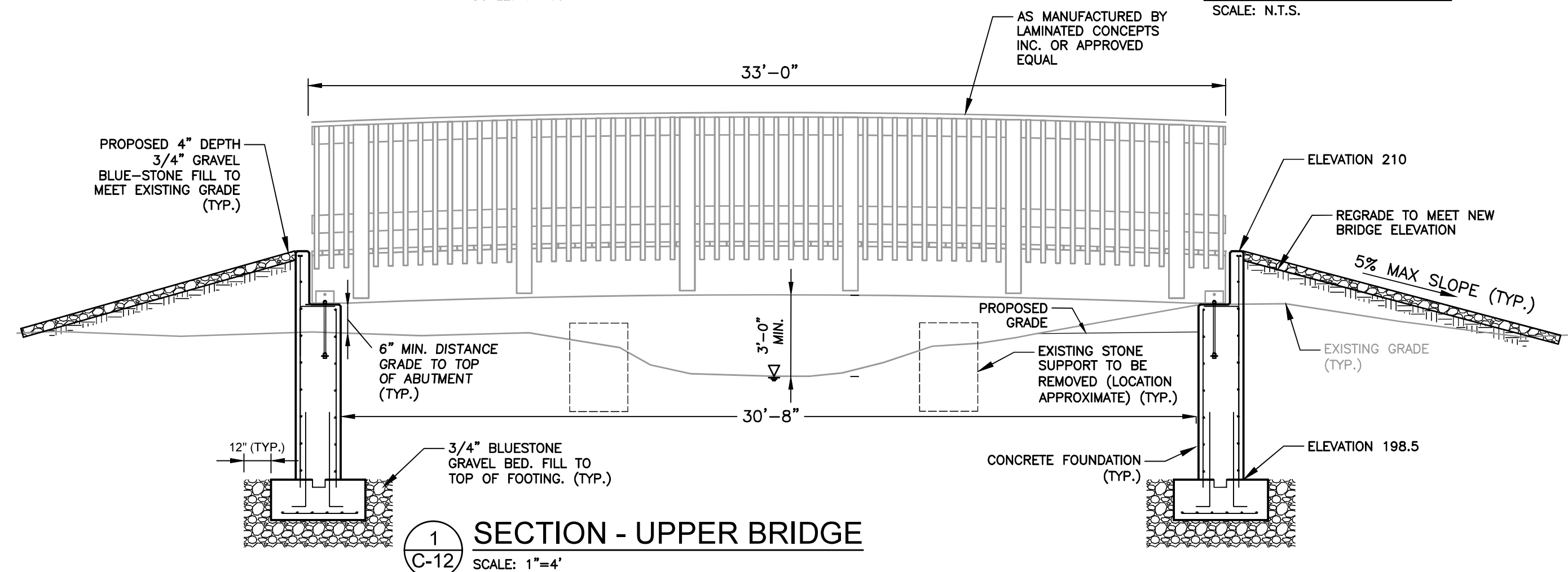
STANDARD NOTES FOR GLUED LAMINATED TIMBER BRIDGES

- SPECIFICATION SCOPE FOR GLUED LAMINATED TIMBER SUPERSTRUCTURES
PROVIDE A STANDARD FOR PRODUCTION OF GLUED LAMINATED WOOD USED IN THE BRIDGE SUPERSTRUCTURE INSTALLATION. SEE SPECIFICATION SECTION 32 34 13 FABRICATED PEDESTRIAN BRIDGES.
- CODES AND STANDARDS
IN ADDITION TO COMPLYING WITH ALL PERTINENT CODES AND REGULATIONS, MATERIAL AND INSTALLATION PROCEDURES SHALL COMPLY WITH THE FOLLOWING:
2.1 AASHTO, 2010, LRFD STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 5TH EDITION.
2.2 AMERICAN NATIONAL STANDARD FOR WOOD PRODUCTS-STRUCTURAL GLUED LAMINATED TIMBER ANSI A190, 1- (LATEST EDITION)
2.3 AITC 117-2010 STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES.
2.4 AWPA BOOK OF STANDARDS (LATEST EDITION)
2.5 WPI BEST MANAGEMENT PRACTICE FOR TREATING WOOD IN AQUATIC ENVIRONMENT
- CERTIFICATIONS
3.1 PRESERVATIVE TREATMENT CERTIFICATION IS REQUIRED AND SHALL BE FURNISHED BY A CERTIFIED AWPA TREATING FACILITY.
- STRUCTURAL DESIGN
THE BRIDGE SHALL BE DESIGNED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
4.1 THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADS AND DIMENSIONS:
4.1.1 DEAD LOAD (TIMBER 50 PCF / WEARING SURFACE 140 PCF)
4.1.2 LIVE LOAD HL93
4.1.3 WET-STRESS DESIGN VALUES SHALL BE USED WHEN APPLICABLE
4.1.4 LIVE LOAD DEFLECTION (L/425)
4.1.5 OVERALL LENGTH OF SPAN BRIDGE: 33'-0"(FT)
4.1.6 OVERALL ROADWAY WIDTH BRIDGE: 12'-0"(FT)
4.1.7 SKEW 0 (DEGREES)

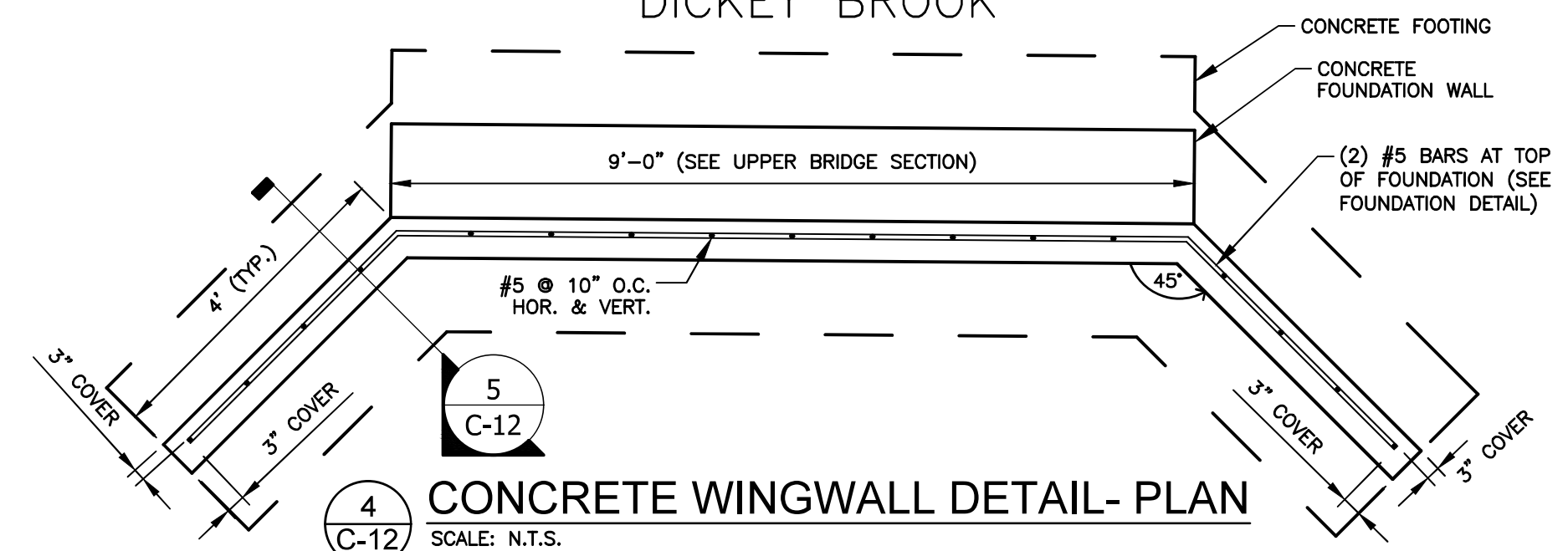


BORING B-2 LOG
SCALE: N.T.S.

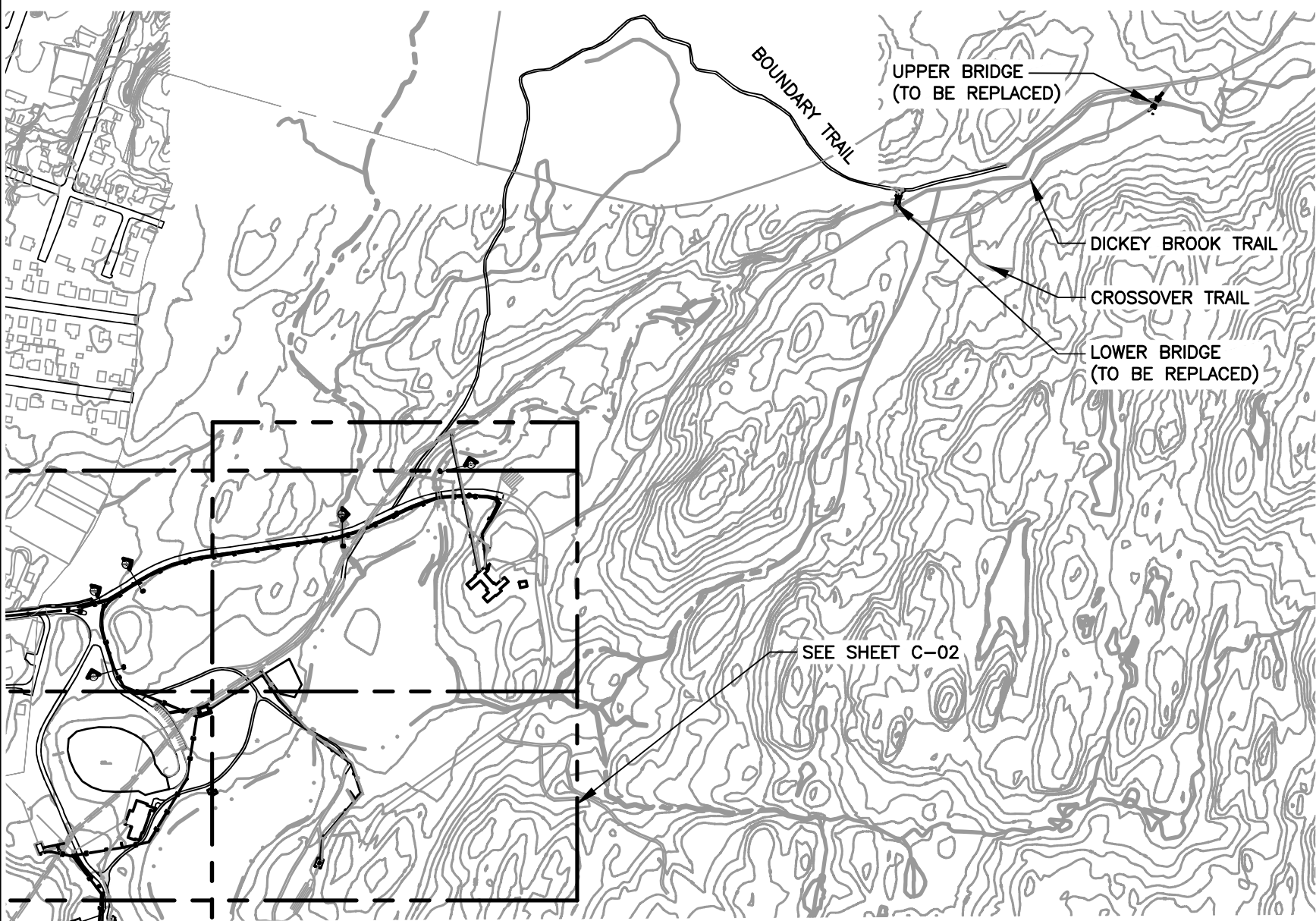
DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value
1	1	SS	WOH	WOH
2				
3	2	SS	6-2-4-3	6
4				
5	3	SS	4-6-9-12	15
6				
7	4	SS	7-15-7-3	22
8				
9	5	SS	3-2-1-2	3
10				
11	6	SS	10-8-6-4	14
12				
13	7	SS	4-4-10-12	14
14				
15	8	SS	18-7-5-3	12
16				
17	9	SS	6-30-54-58	84
18				
19	10	SS	44-40-7-4	47
20				



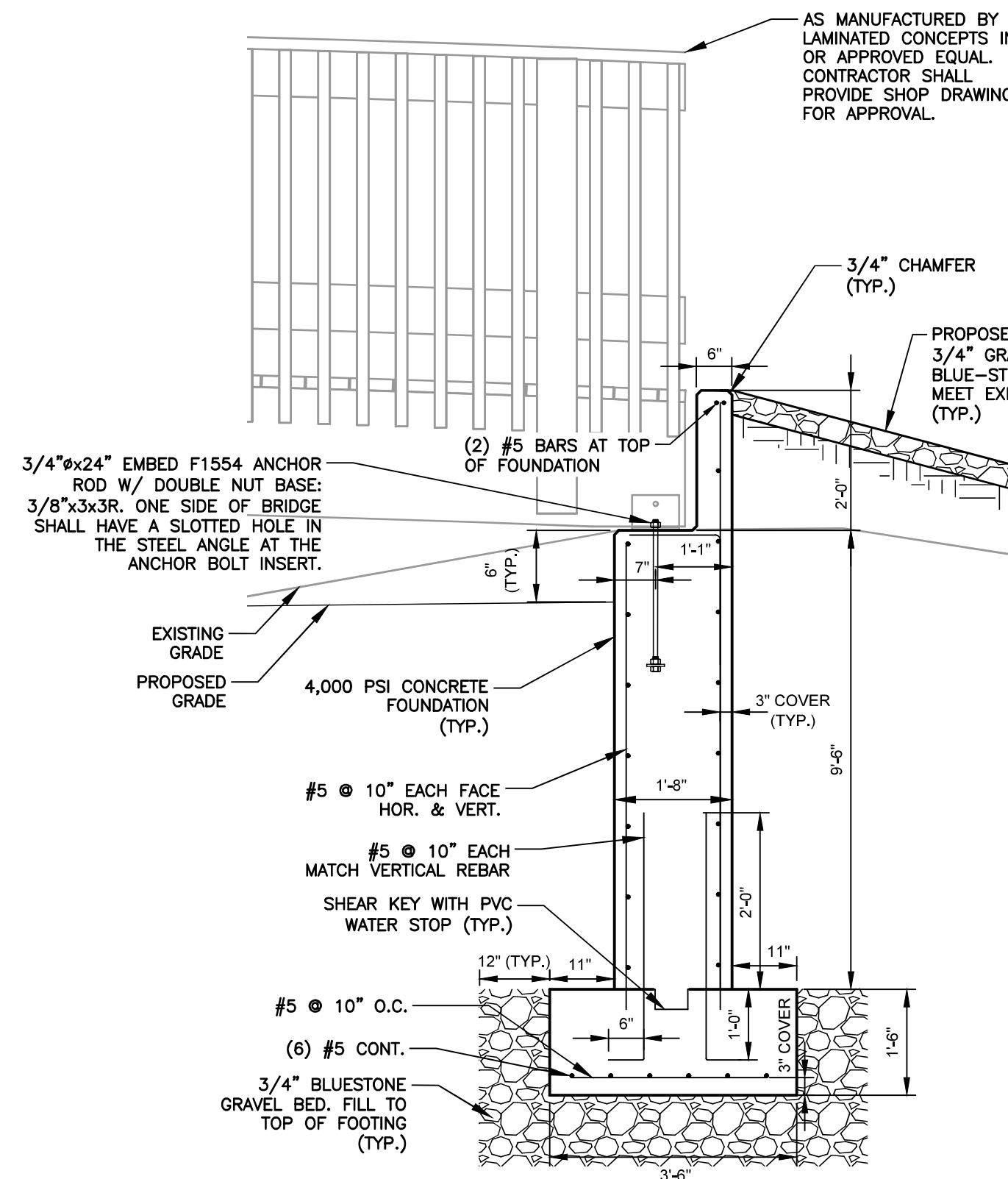
DICKEY BROOK



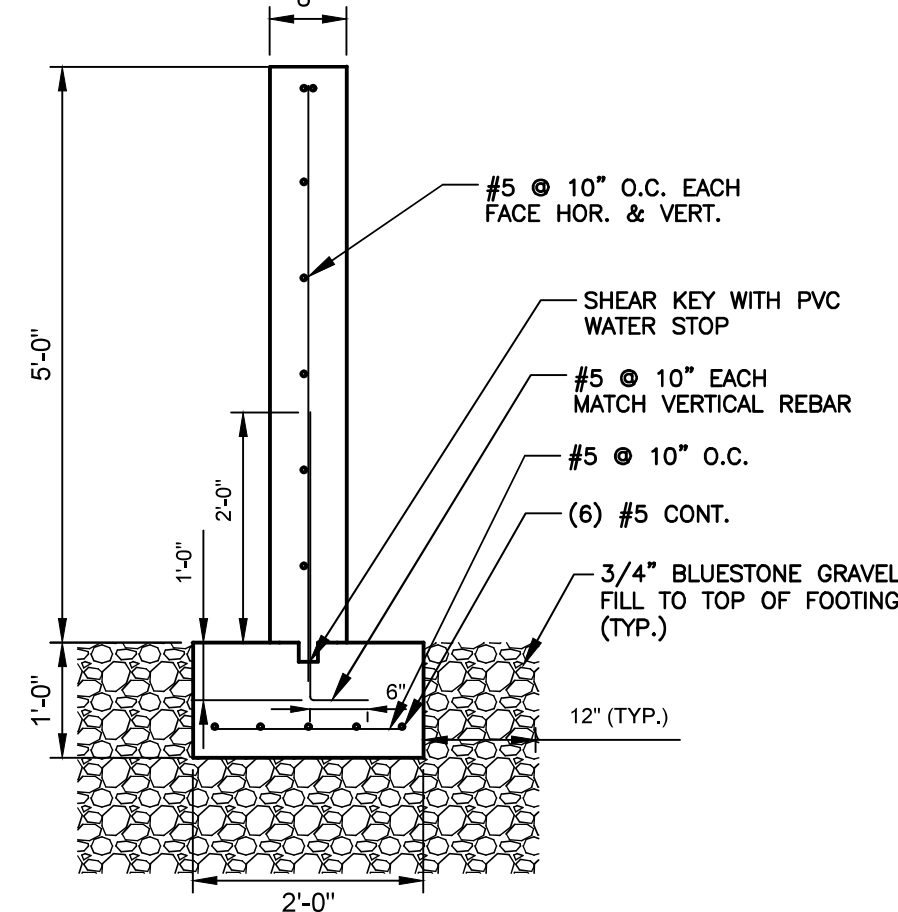
- FOUNDATION WALL NOTES**
- ANCHOR BOLTS SHALL BE INSTALLED 6" MIN. FROM THE OUTER EDGE OF FOUNDATION
 - ONE SIDE OF BRIDGE SHALL HAVE A SLOTTED HOLE IN THE STEEL ANGLE AT THE ANCHOR BOLT INSERTS.
 - ANY VOIDS, OBSTACLES, OR ORGANIC MATERIAL ENCOUNTERED DURING EXCAVATION AND FOUNDATION INSTALLATION SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL APPROVED BY THE ENGINEER.
 - ACTUAL LOCATION OF BRIDGE TO BE DETERMINED IN THE FIELD AS PER APPROVAL OF OWNER AND ENGINEER.
 - WINGWALL DEPTH WILL BE 4' BELOW GRADE.
 - WINGWALL WILL BE EMBEDDED IN VIRGIN SOIL.



BRIDGE LOCATION MAP
SCALE: NTS



FOUNDATION DETAIL (UPPER BRIDGE)
SCALE: 1"=25'



CONCRETE WINGWALL SECTION
SCALE: N.T.S.

ALTERNATE BID ITEM 2

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINES, NY, 10604
(914) 467-5300

CONSULTANT SEAL



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IN CHARGE OF RAL
CHECKED BY MPF
MADE BY RJC

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

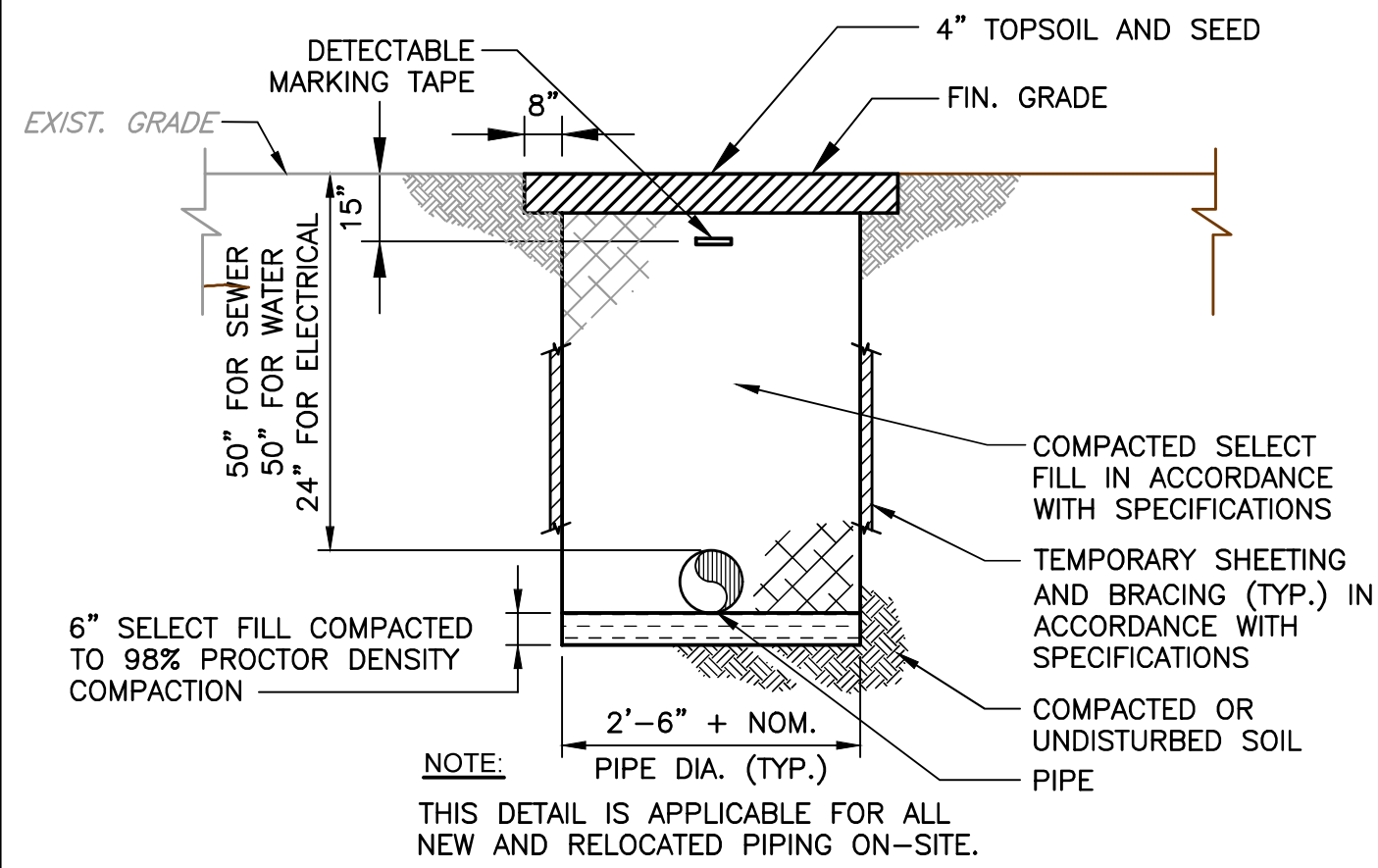
PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

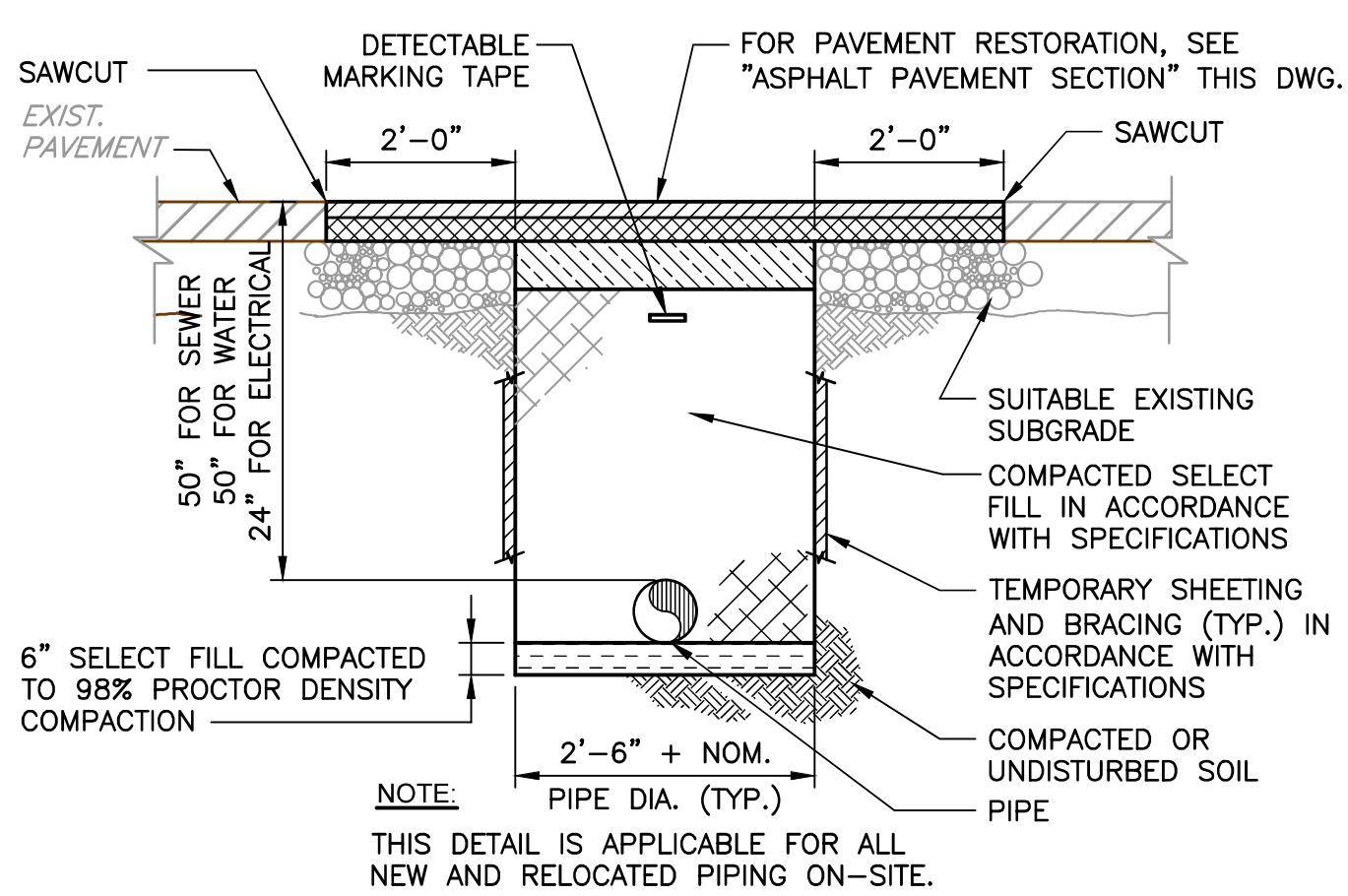
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
CIVIL
BRIDGE PLANS, SECTIONS AND DETAILS 2

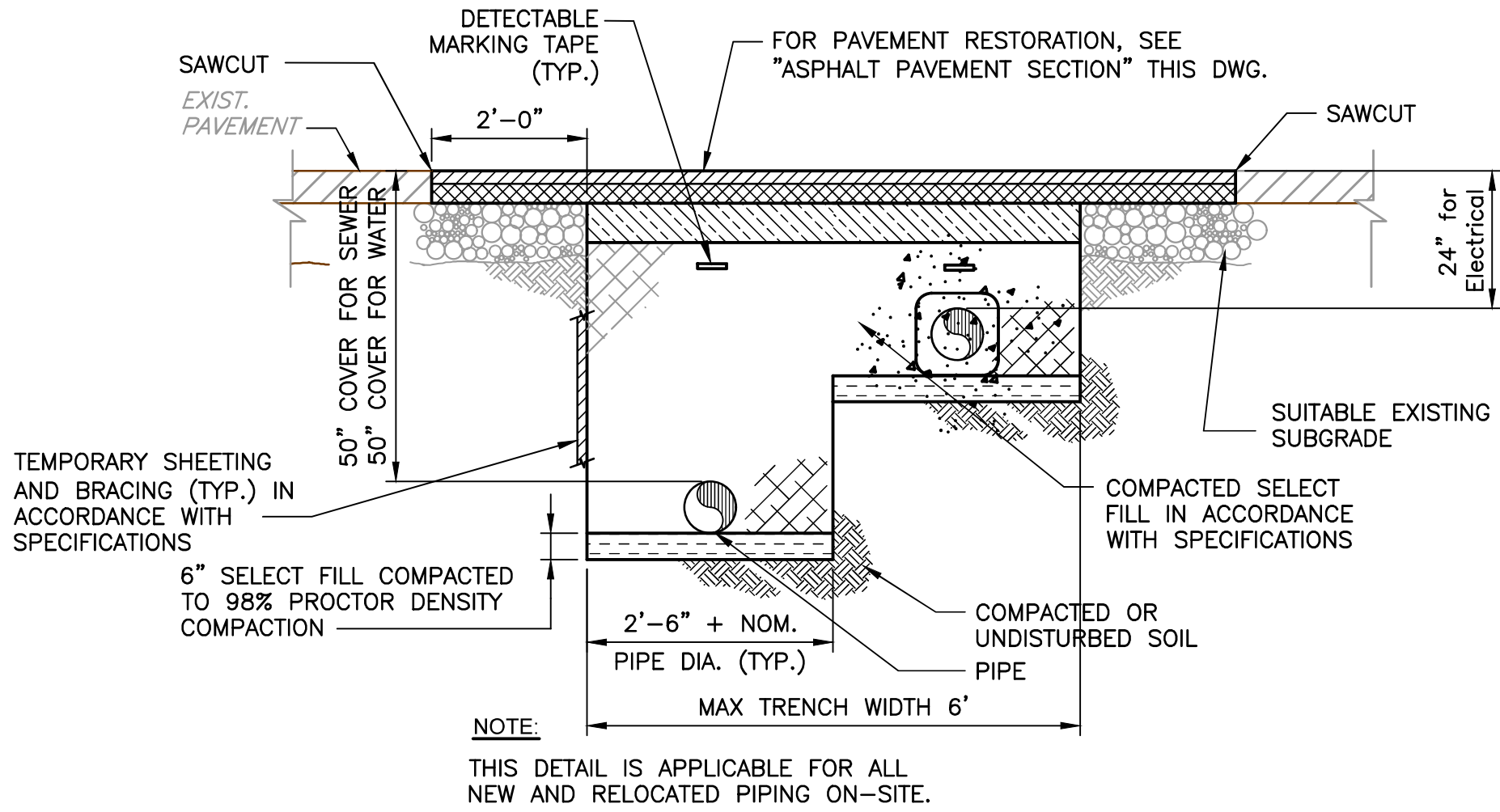
CONTRACT NUMBER 17-519	SHEET NUMBER C-12
SHEET NO. 16 OF 35	SCALE: AS NOTED DATE: APRIL 2021
DPW FILE NO. 24-86-G-19	REV. NO. 0



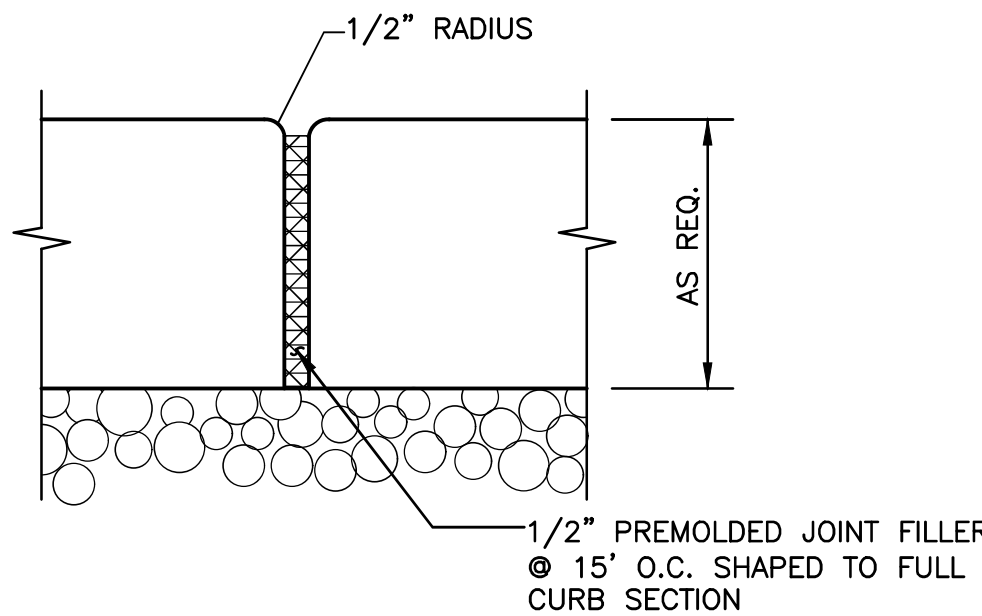
TYPICAL TRENCH DETAIL
N.T.S.



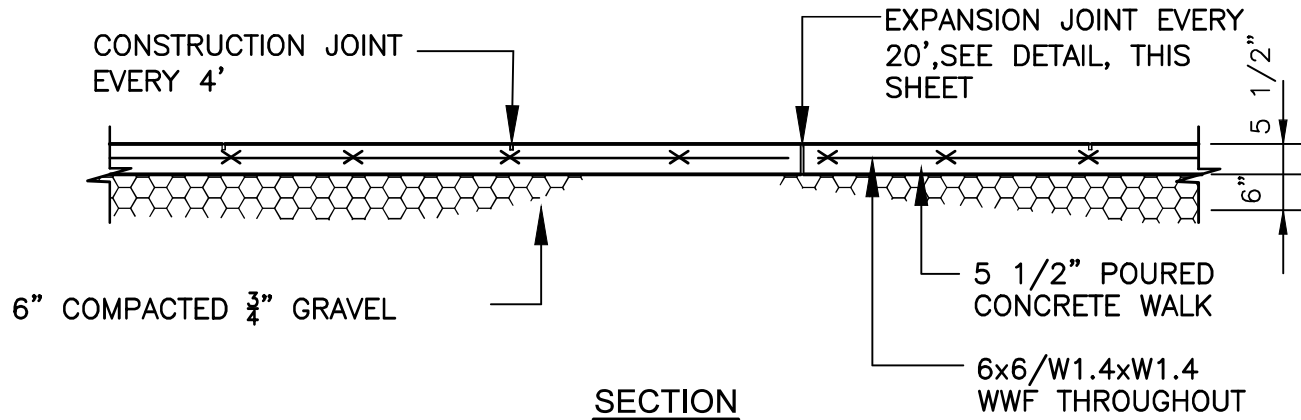
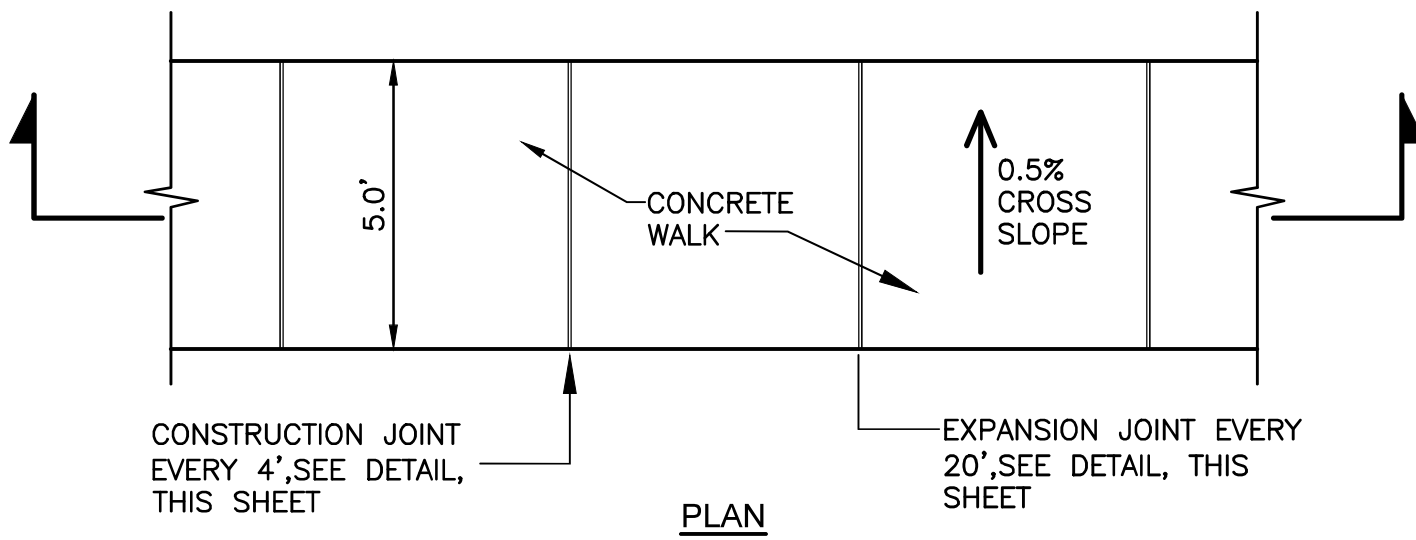
TYPICAL TRENCH IN PAVED AREA DETAIL
N.T.S.



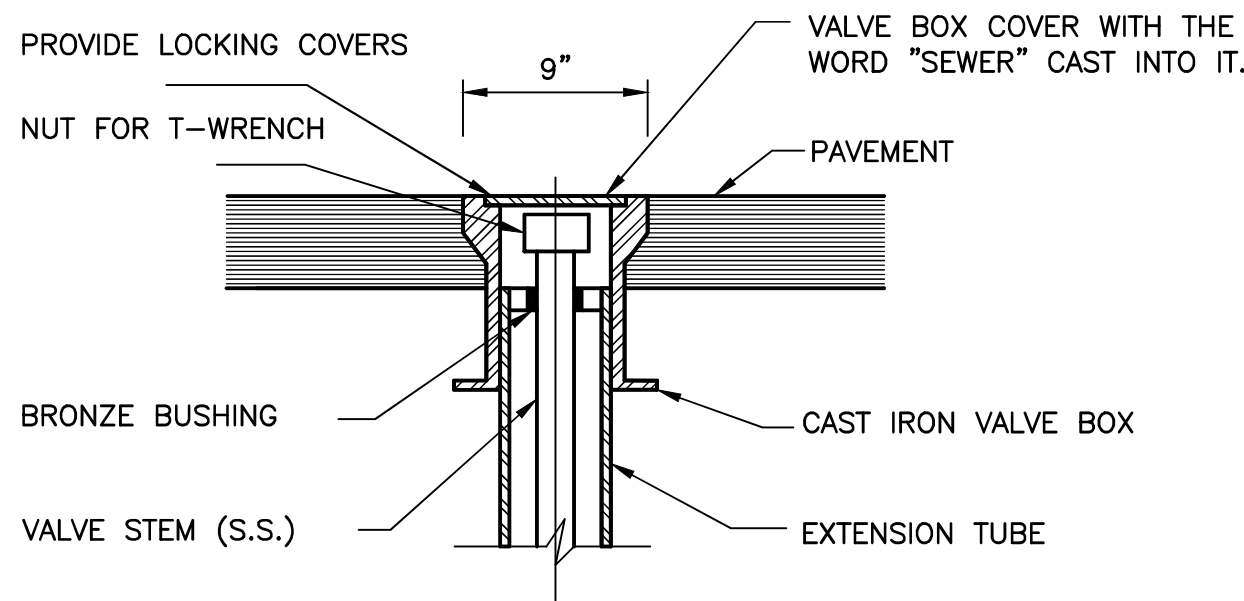
TYPICAL SHARED TRENCH IN PAVED AREA DETAIL
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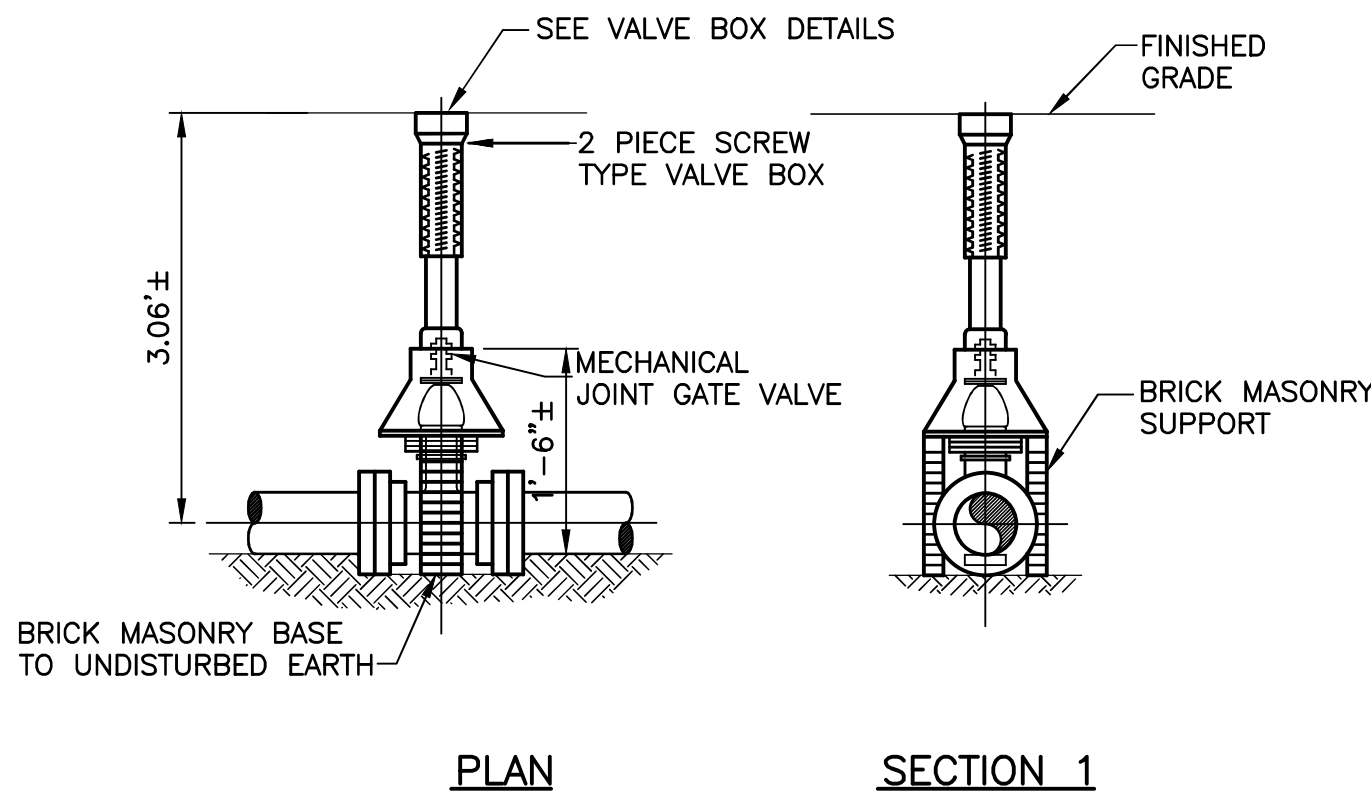
EXPANSION JOINT DETAIL
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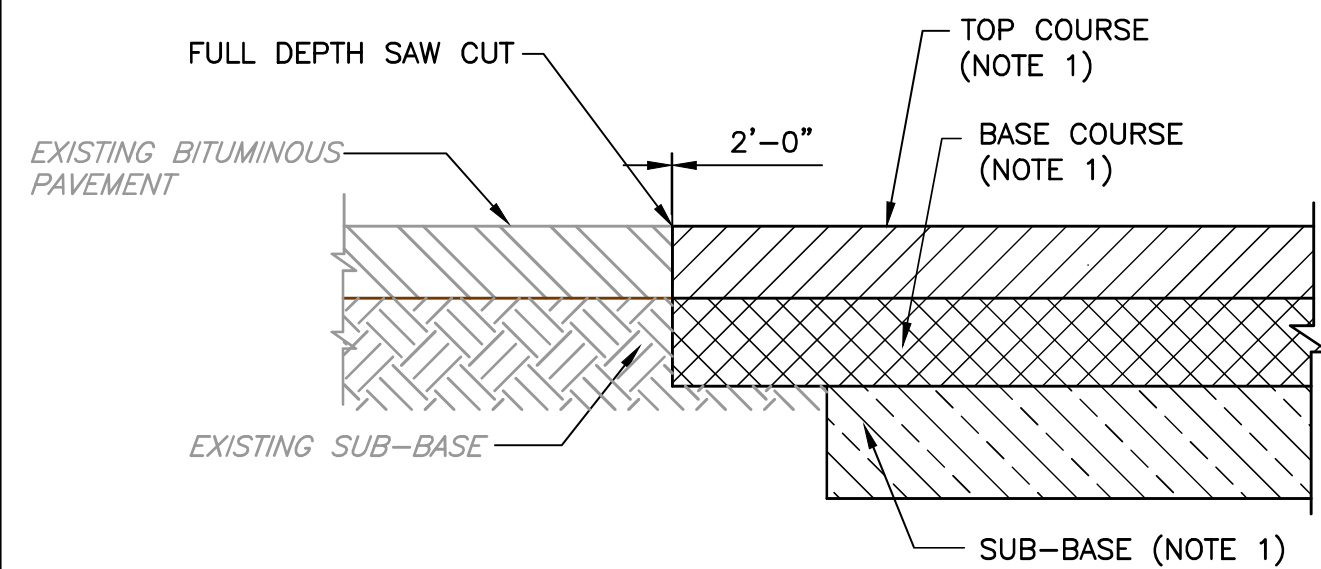
CONCRETE SIDEWALK DETAIL
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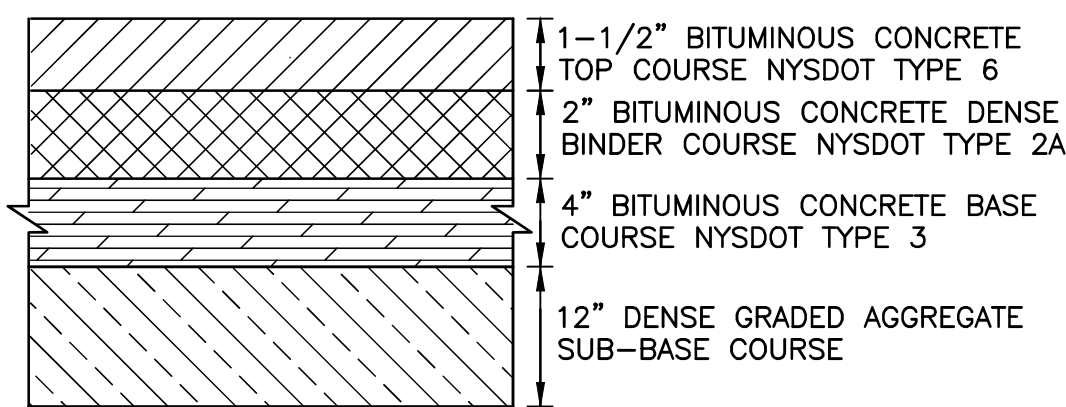
VALVE BOX COVER IN PAVEMENT
N.T.S.



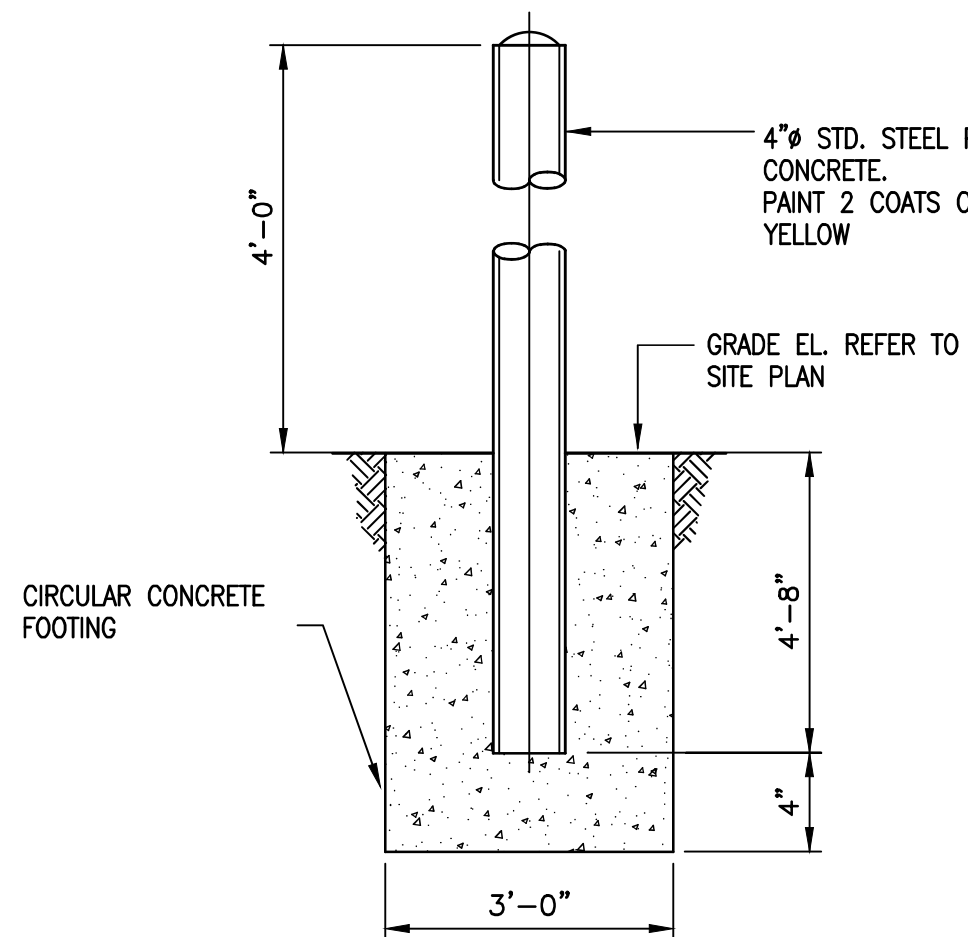
TYPICAL BURIED GATE VALVE DETAIL
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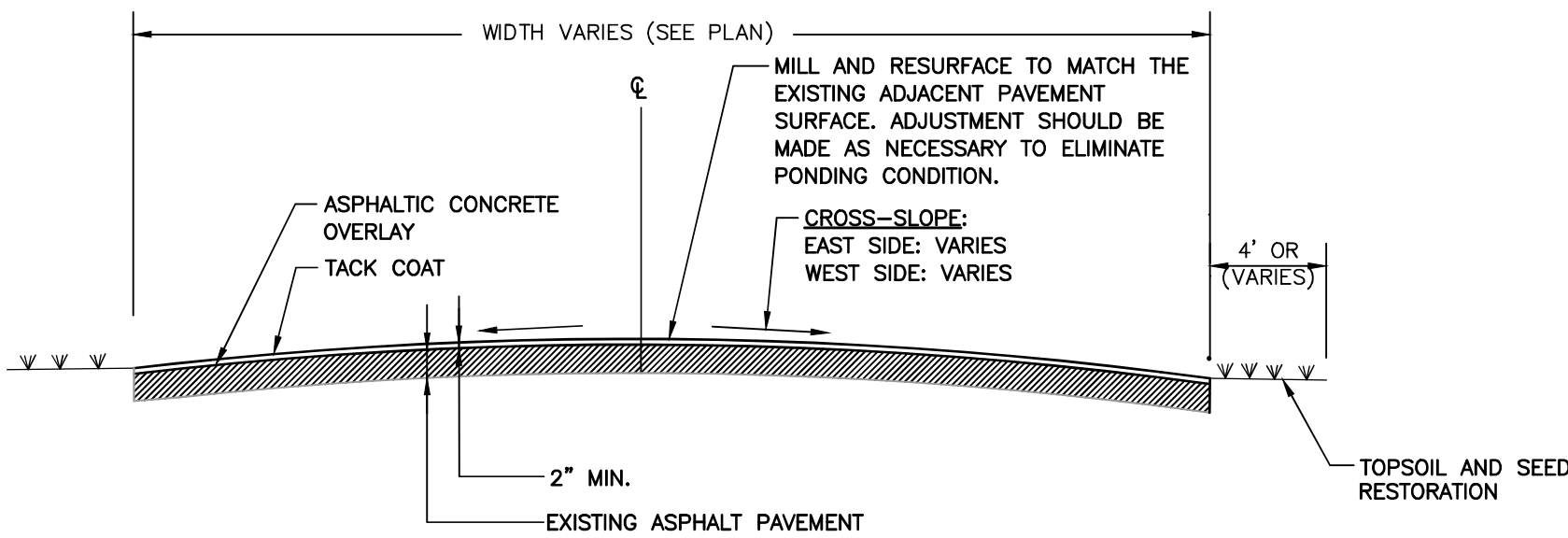
PAVING ADJACENT TO EXISTING PAVEMENT
N.T.S.



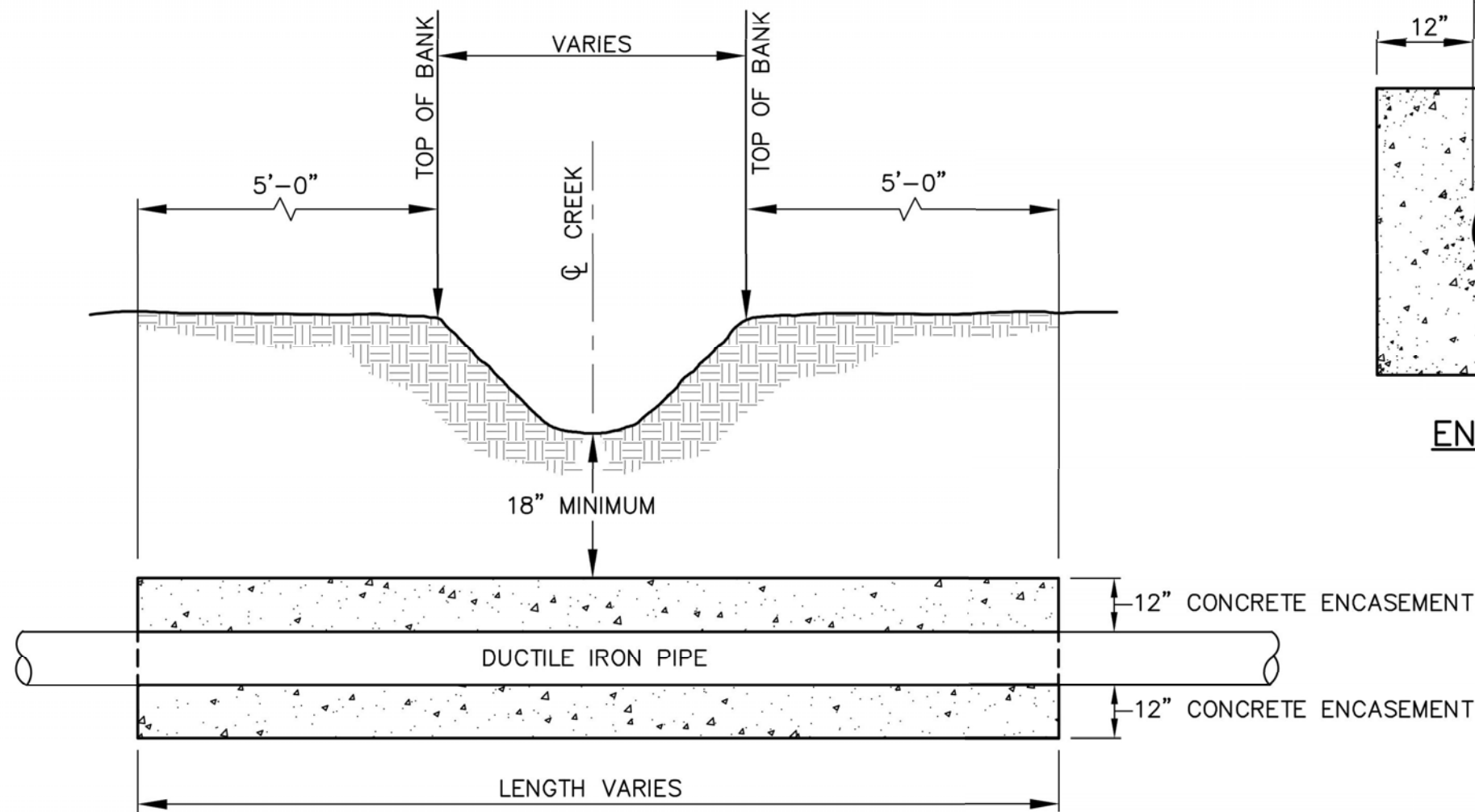
ASPHALT PAVEMENT SECTION
N.T.S.



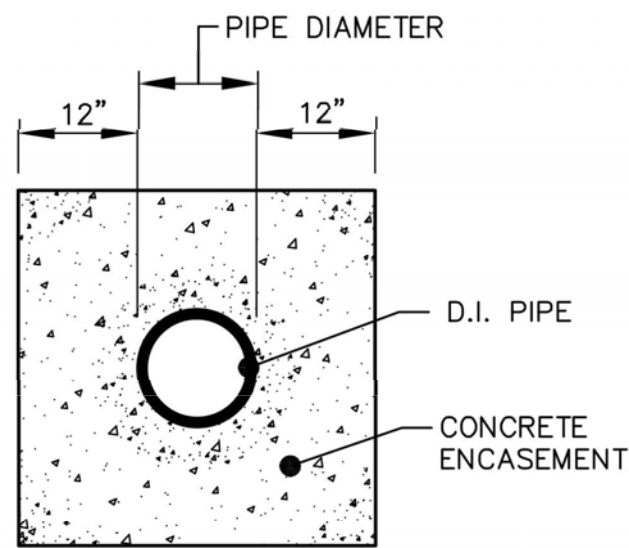
4"Ø BOLLARD DETAIL
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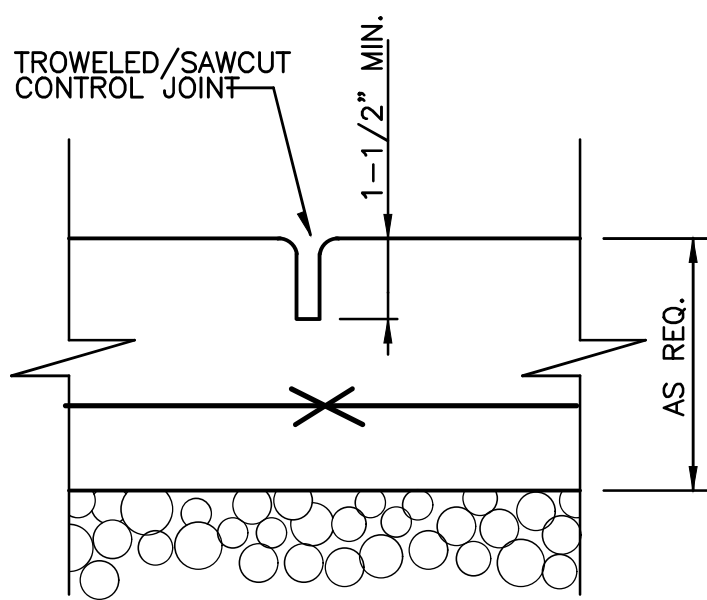
TYPICAL ASPHALT PAVEMENT RESURFACING SECTION
N.T.S.



CROSS SECTION



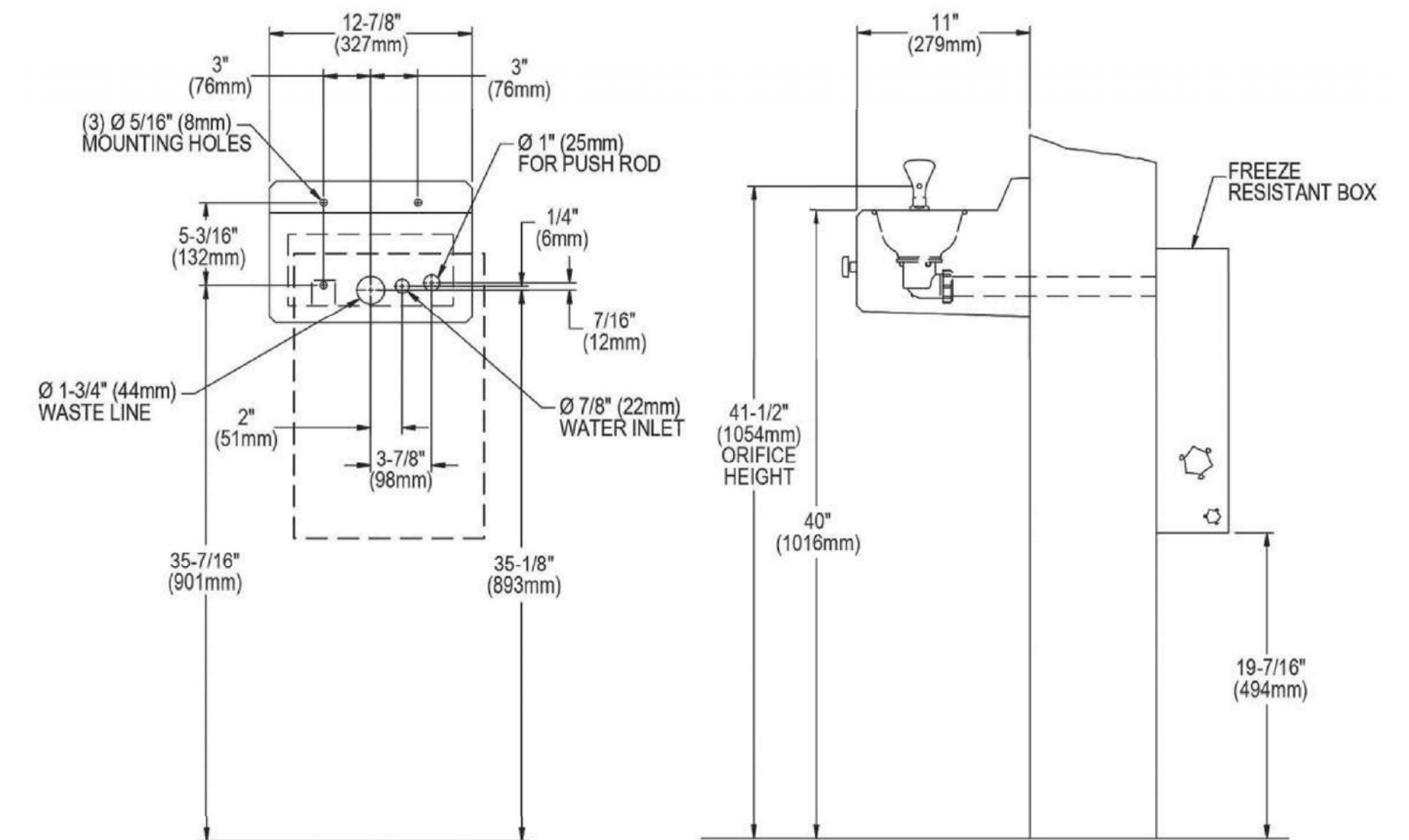
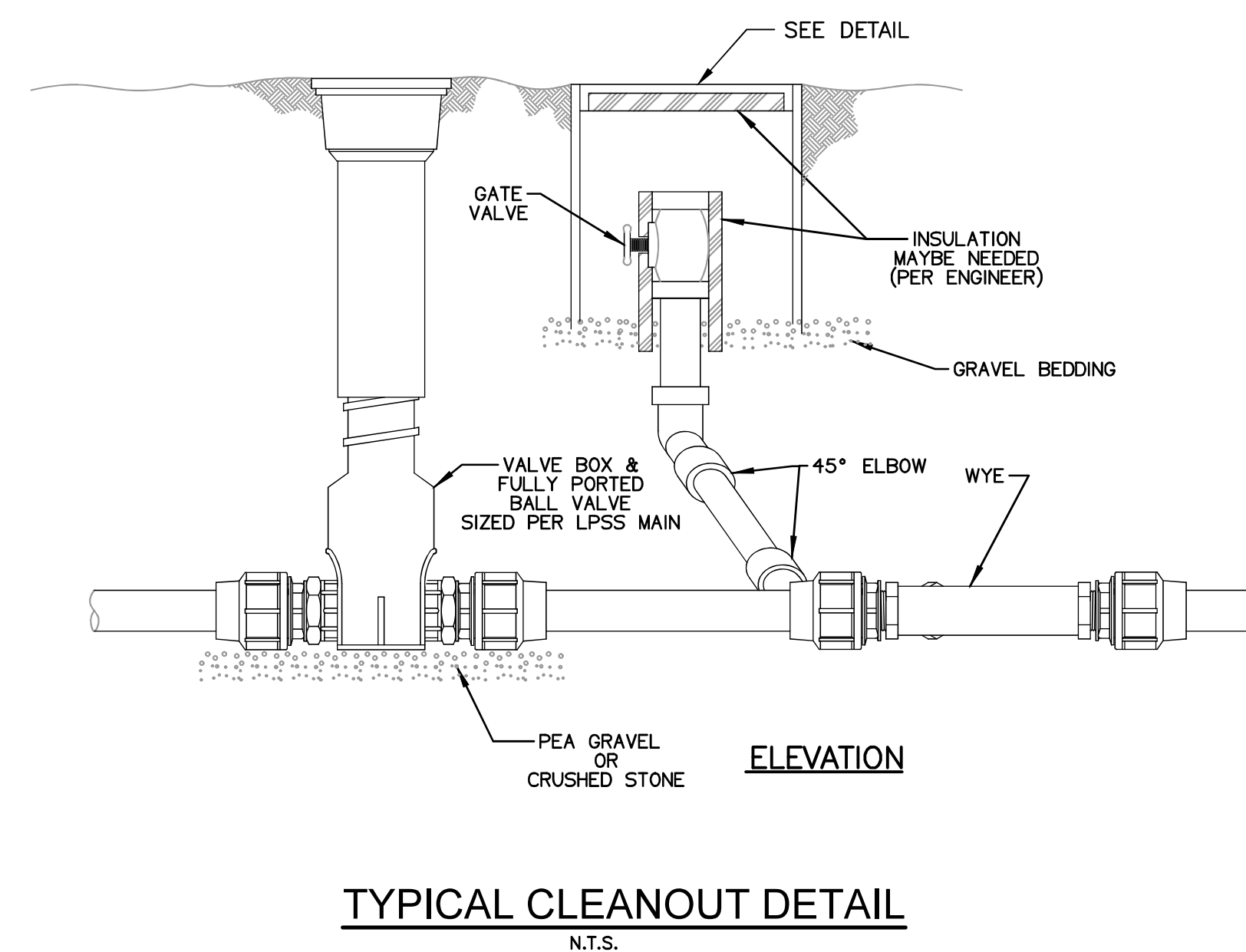
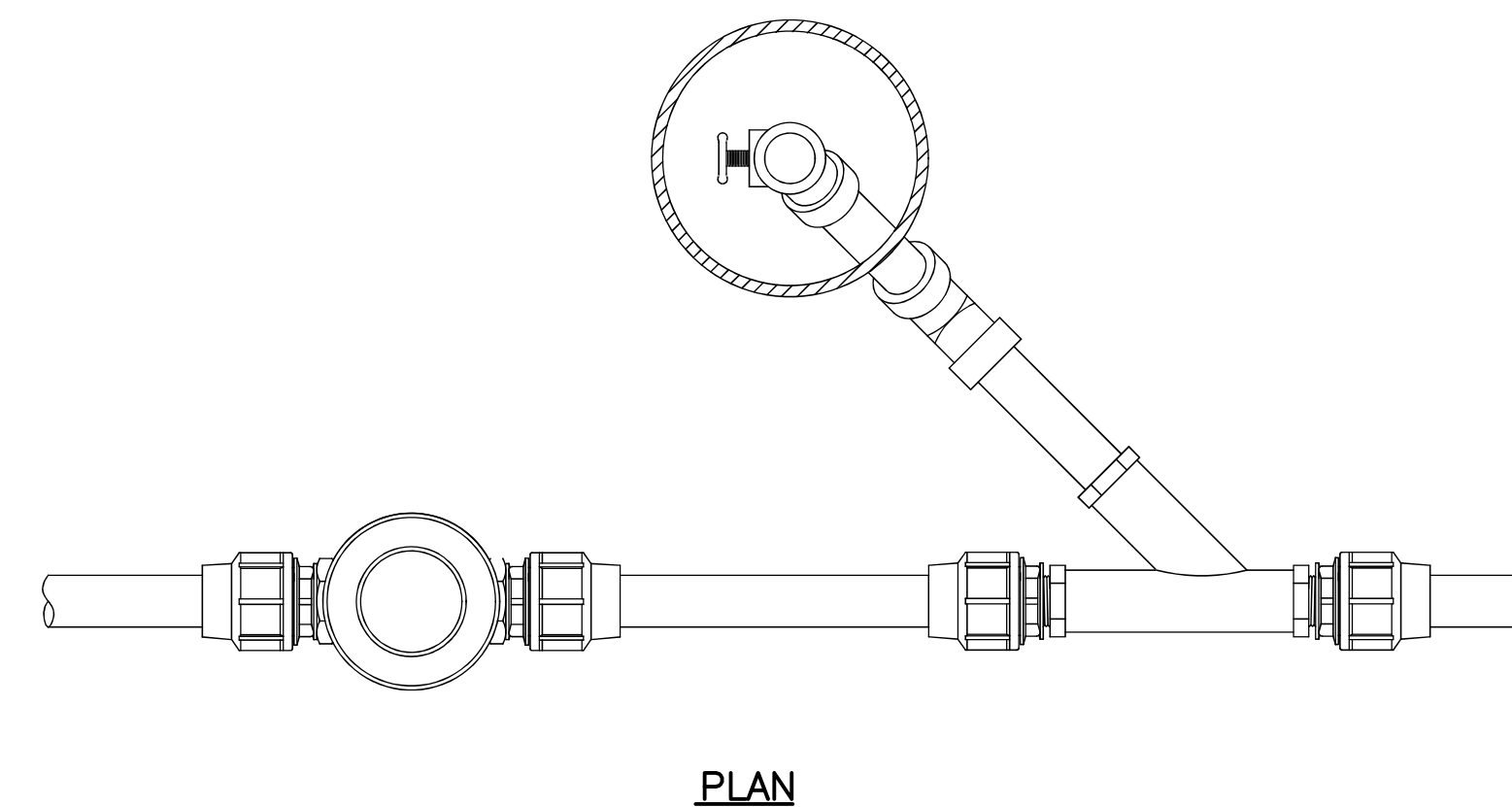
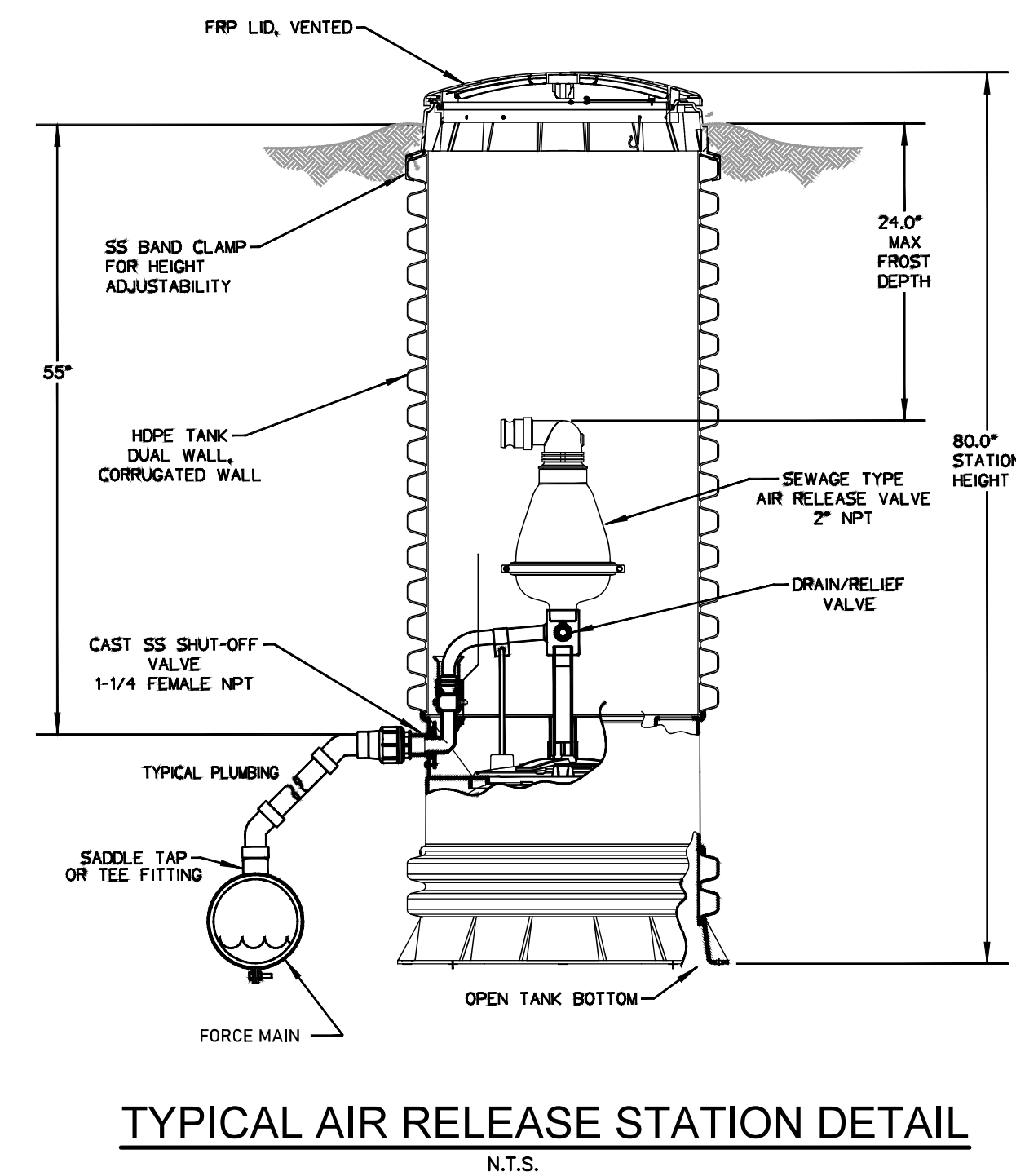
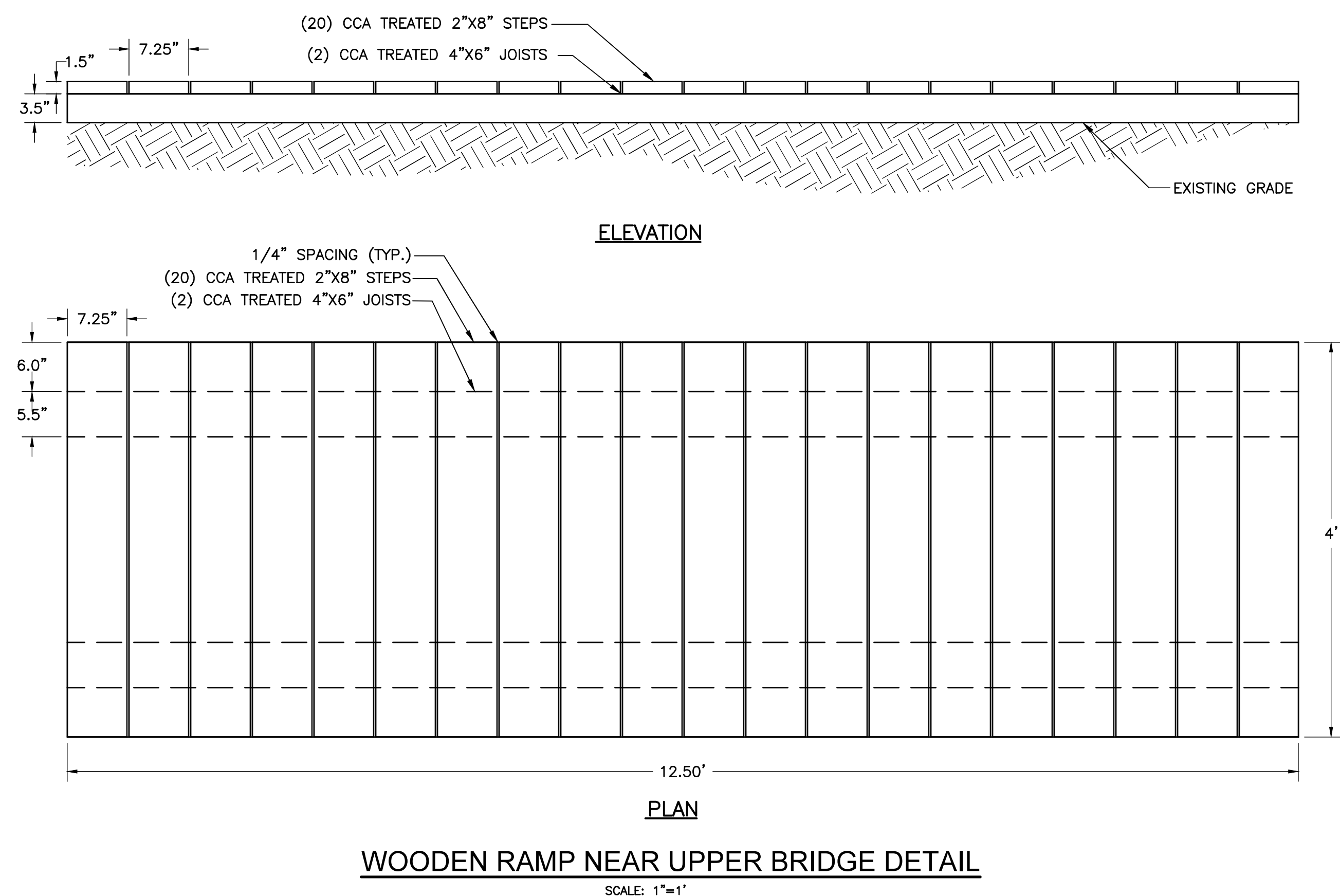
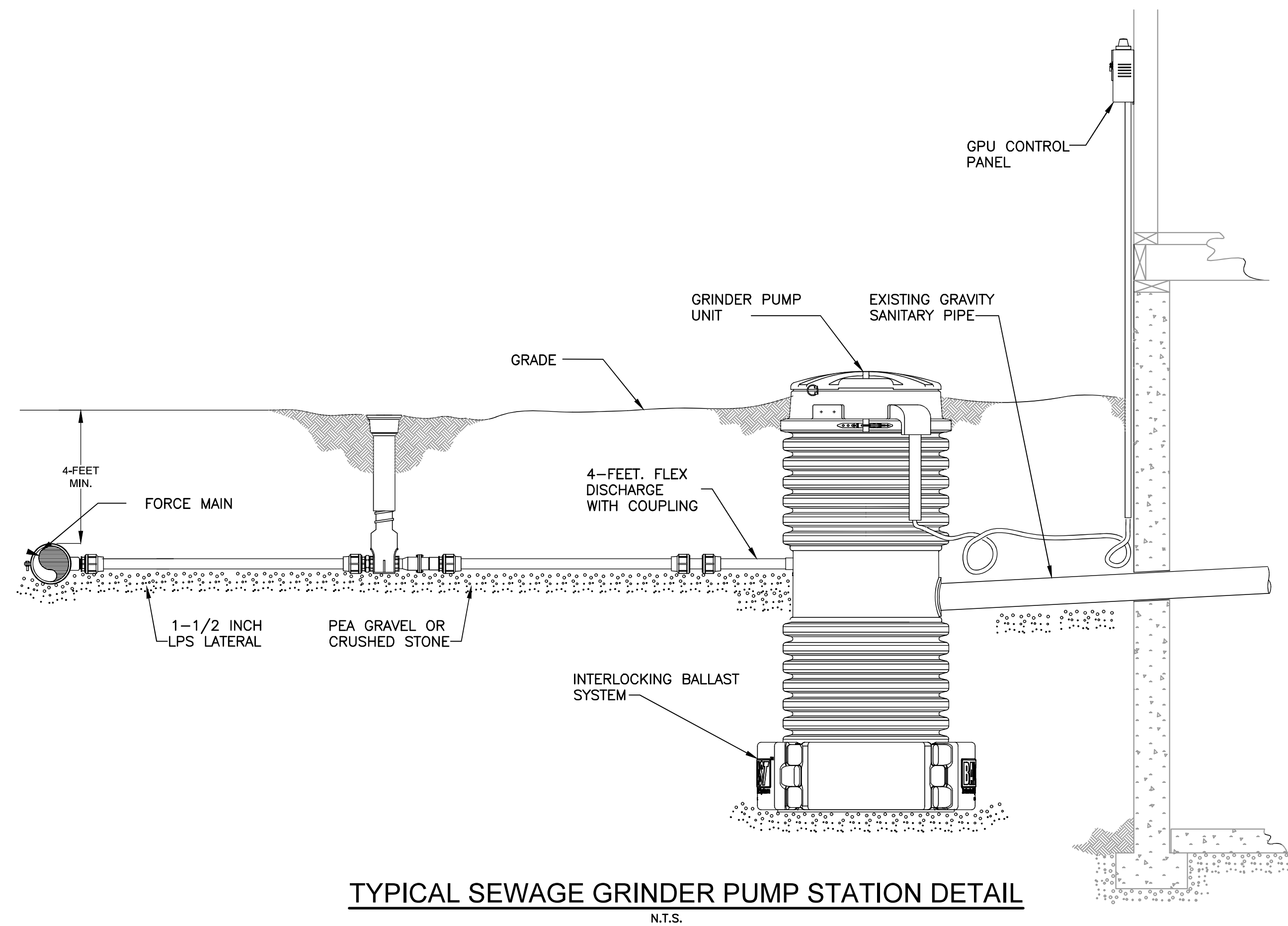
END VIEW



CONSTRUCTION JOINT
N.T.S.

- NOTES:**
1. CONCRETE SHALL BE 3000 P.S.I.
 2. CONCRETE ENCASEMENT NOT REQUIRED WHEN PIPE IS AT LEAST THREE (3) FEET UNDER CENTERLINE OF CREEK BOTTOM

TYPICAL CONCRETE ENCASEMENT FOR STREAM CROSSING
N.T.S.

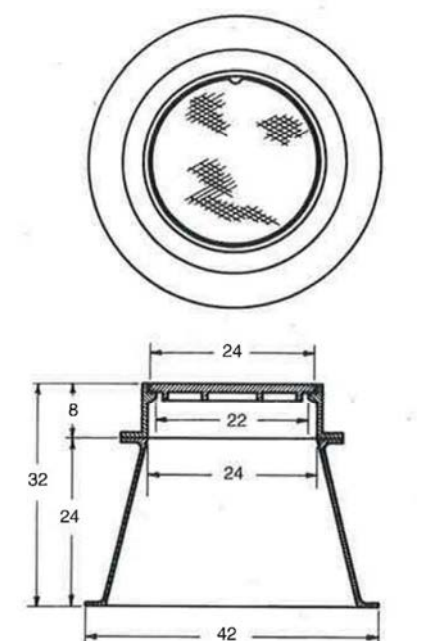


MANUFACTURED BY HALSEY TAYLOR:
 OUTDOOR SIERRA STONE FOUNTAIN WALL MOUNT NON-FILTERED NON-REFRIGERATED (MODEL 4592FR)
 OPERATING PRESSURES: SUPPLY WATER-105 PSI MAXIMUM.
 FREEZE-RESISTANT BOX MUST BE INSTALLED ON INTERIOR NON-FREEZING WALL.
NOTE: A SERVICE SUPPLY STOP (NOT INCLUDED) SHOULD BE INSTALLED AT THE FOUNTAIN INTEL LINE.
IMPORTANT: FOR RECOMMENDED WALL SUPPORT SEE INSTALLATION INSTRUCTIONS PROVIDED WITH FOUNTAIN.

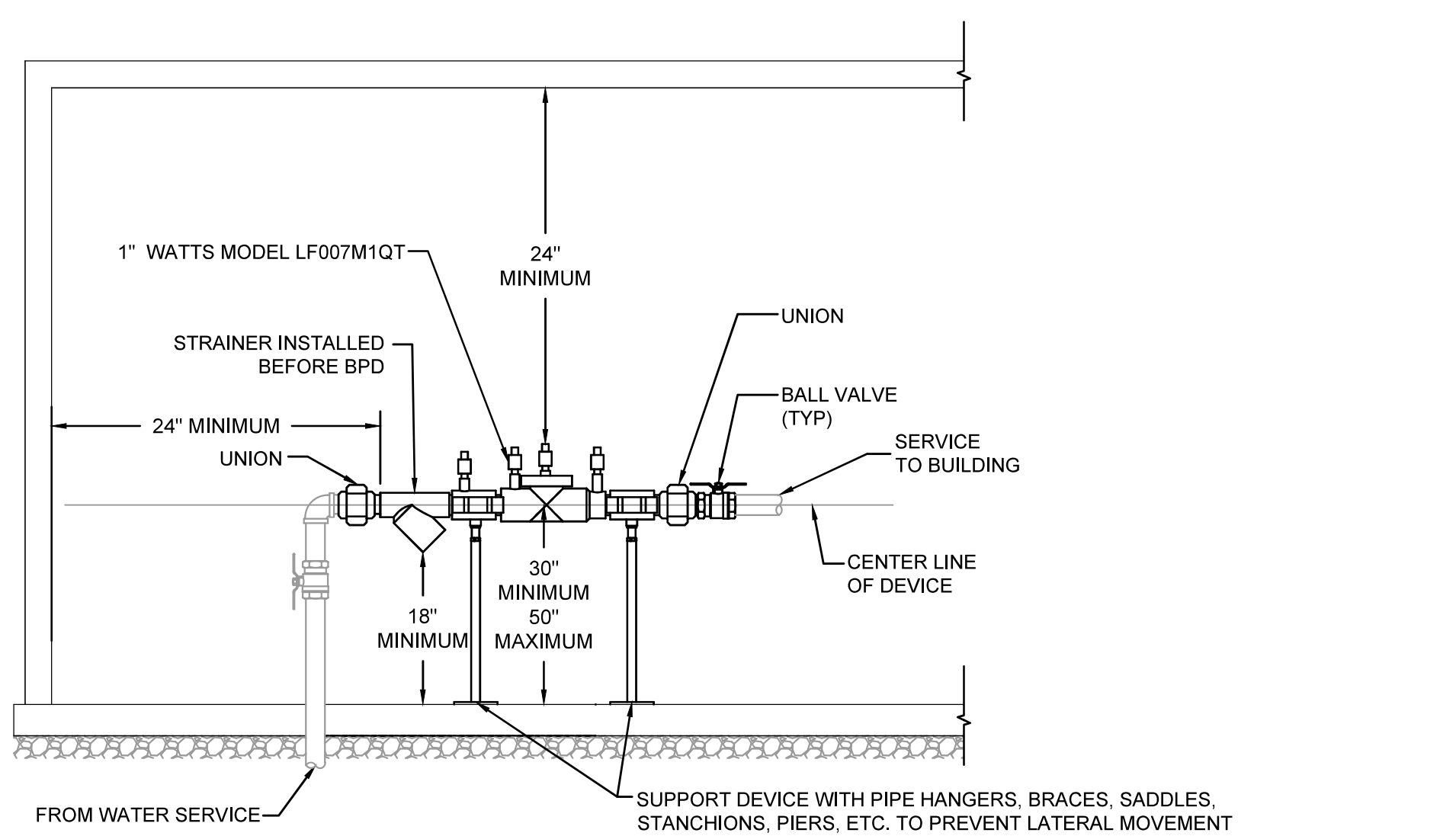
LEGEND:
A. RECOMMENDED WATER SUPPLY LOCATION, 3/8" O.D. UNPLATED COPPER TUBE CONNECT STUB 1-1/2" (38MM) OUT FROM WALL SHUT OFF VALVE BY OTHERS.
B. RECOMMENDED LOCATION FOR WASTE OUTLET, 1-3/4" O.D. (44MM) DRAIN.
C. (4) 5/16" (8MM) DIA. MOUNTING HOLES.

IMPORTANT: FOR RECOMMENDED WALL SUPPORT SEE INSTALLATION INSTRUCTIONS PROVIDED WITH PANEL AND FOUNTAINS.

MOUNTING INSTRUCTIONS:
REFER TO DIAGRAMS FOR ROUGH-IN OF FREEZE-RESISTANT SYSTEM AND PLUMBING. FOR WALL SUPPORT REQUIRED LOCATIONS SEE INSTALLATION INSTRUCTIONS PROVIDED WITH FOUNTAIN. BOLT FOUNTAIN SECURELY TO WALL PER INSTALLATION INSTRUCTIONS. WATER SUPPLY AND WASTE LINE ARE TO BE ASSEMBLED AS REQUIRED. FINAL CHECK FOR LEAKS AND CORRECT FUNCTIONS OF FOUNTAIN SHOULD BE MADE. (FOR DETAILS SEE INSTALLATION INSTRUCTIONS.)

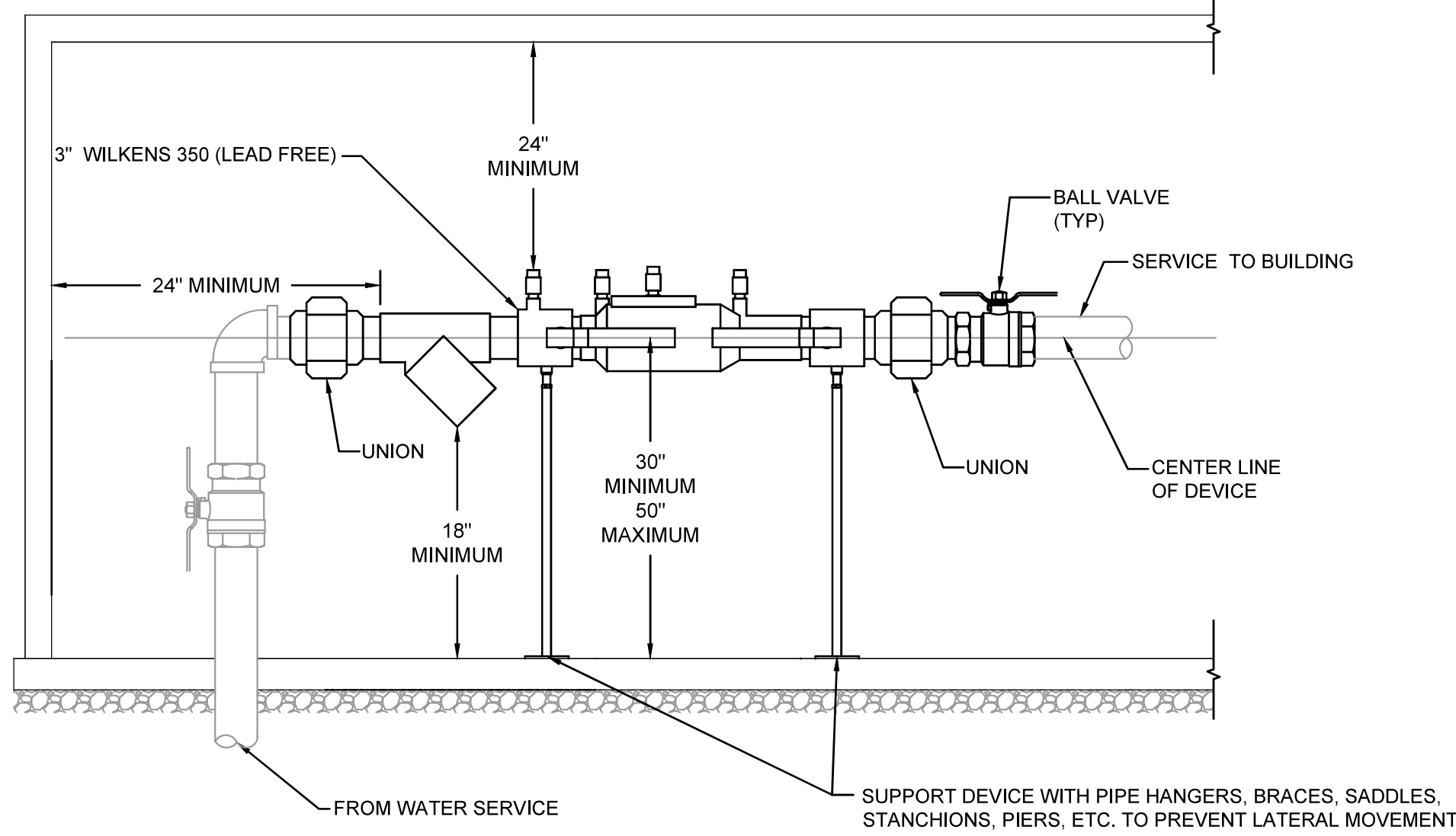


AS MANUFACTURED BY THE
CAMPBELL FOUNDRY CO. PATTERN # 4420
FOR SANITARY OR COMBINED SEWER
COVER MUST SAY "WCDPWT SEWER"
ROUND FLANGE ONLY



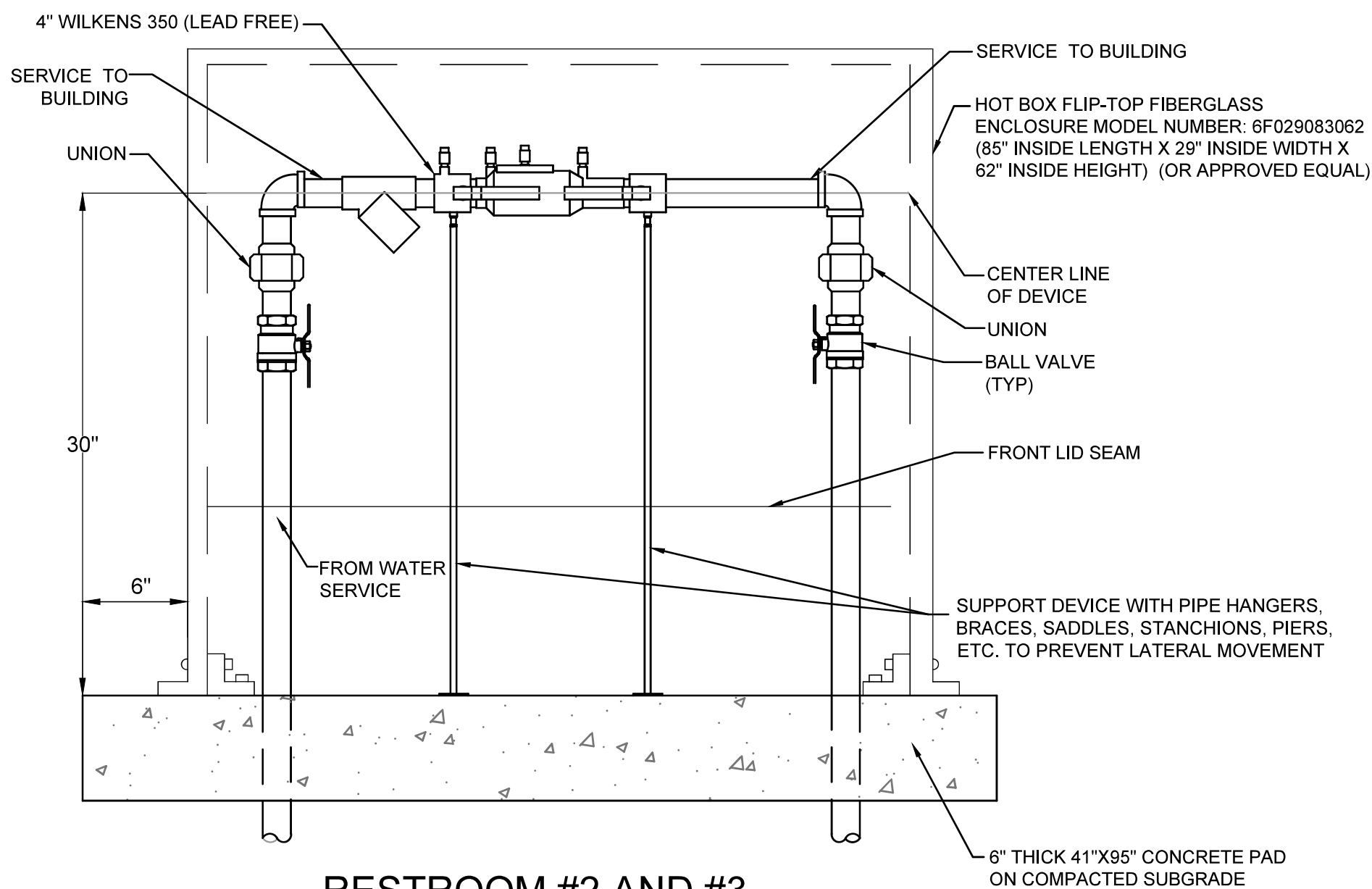
RESTROOM #1 1" DOUBLE CHECK VALVE ELEVATION

N.T.S.



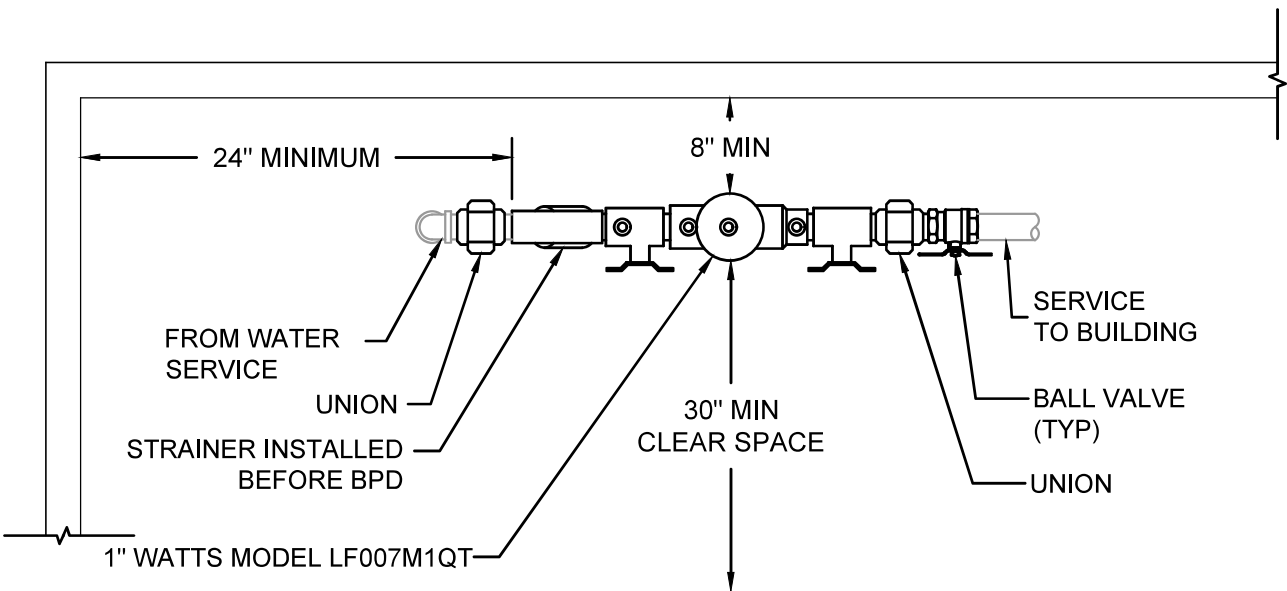
TRAIL LODGE 3" DOUBLE CHECK VALVE ELEVATION

N.T.S.



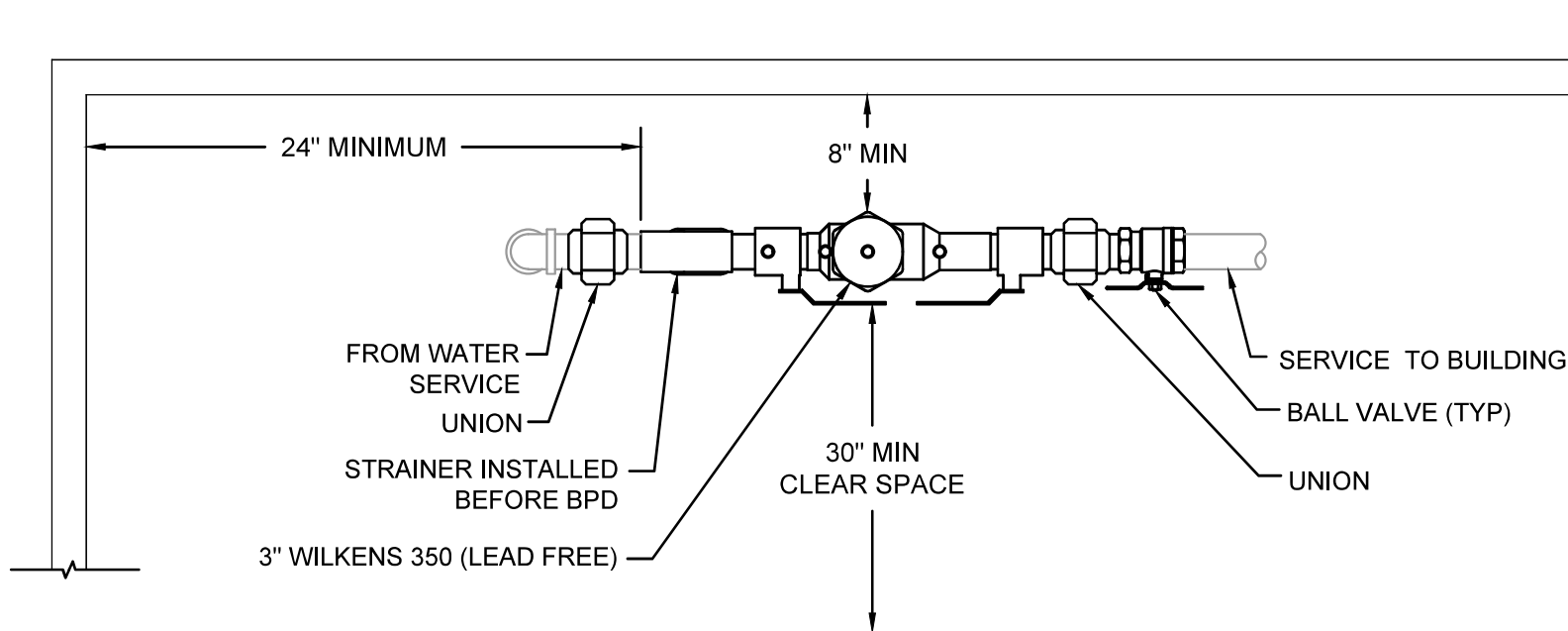
RESTROOM #2 AND #3
4" DOUBLE CHECK VALVE ELEVATION

N.T.S.



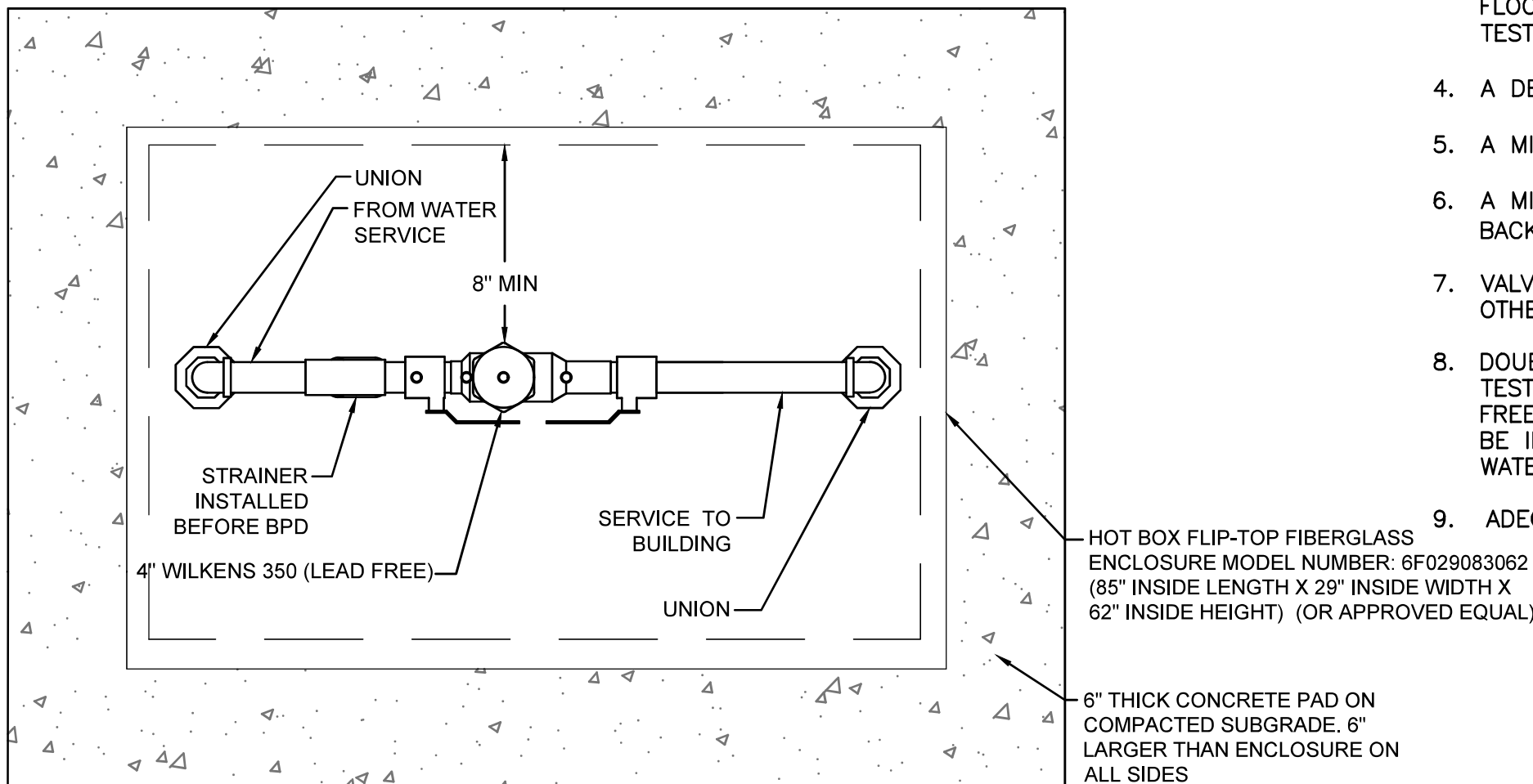
RESTROOM #1 1" DOUBLE CHECK VALVE PLAN


N.T.S.



TRAIL LODGE 3" DOUBLE CHECK VALVE PLAN

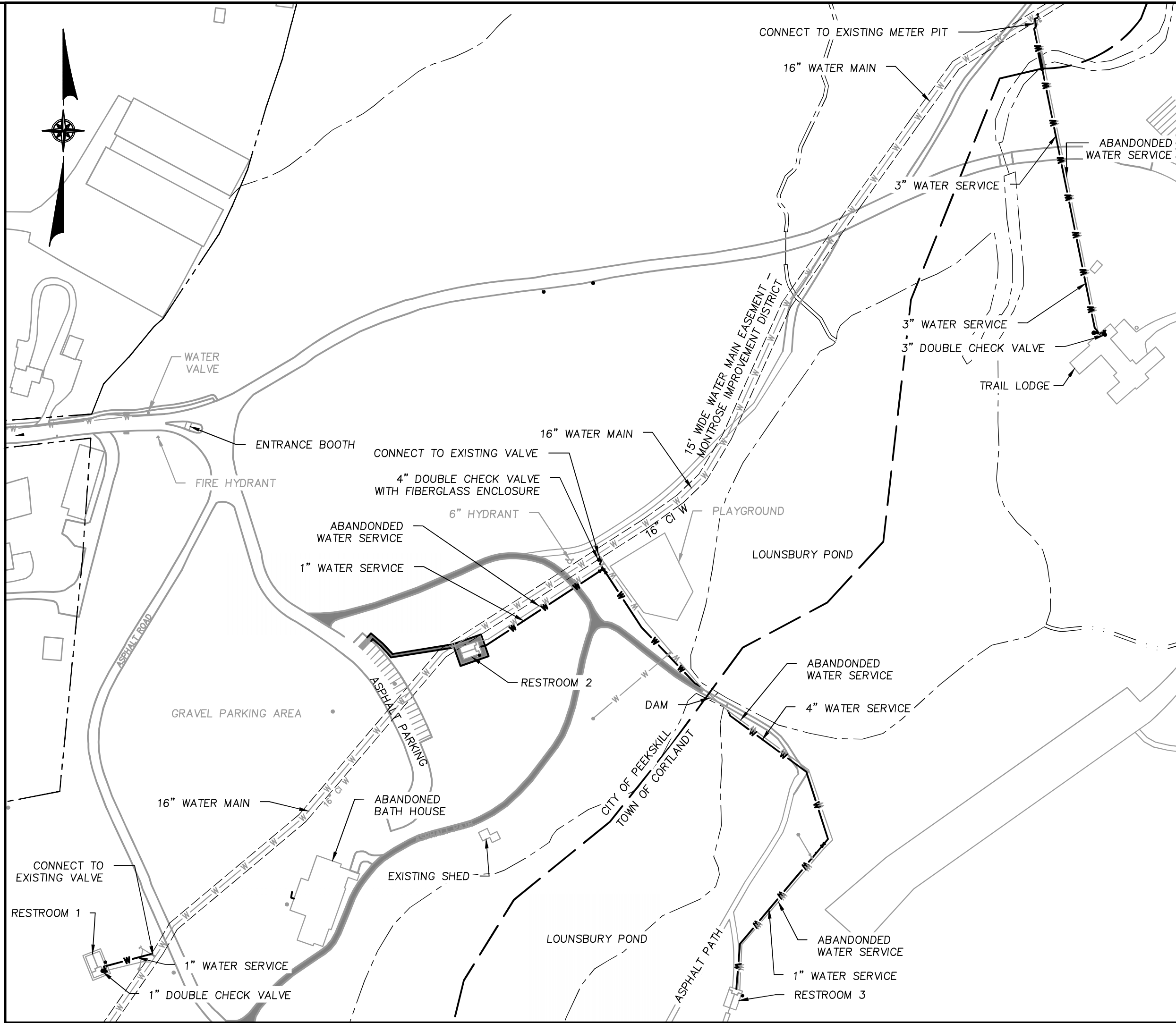
N.T.S.



- ENCLOSURE NOTES:
1. INSULATION TO BE POLYISOCYANURATE FOAM.
 2. ENCLOSURE TO BE CERTIFIED BY 

4" DOUBLE CHECK VALVE PLAN

N.T.S.

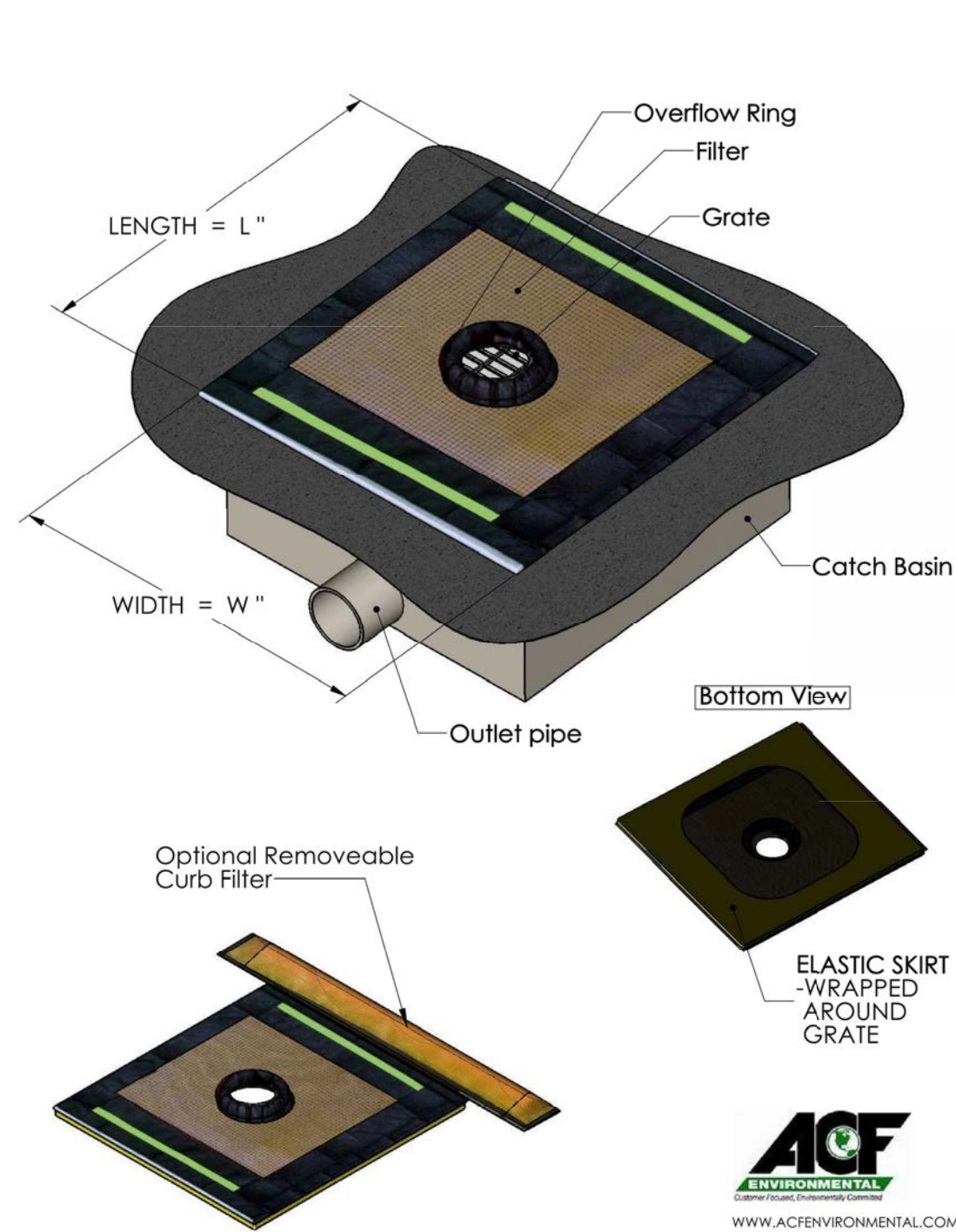


SITE PLAN

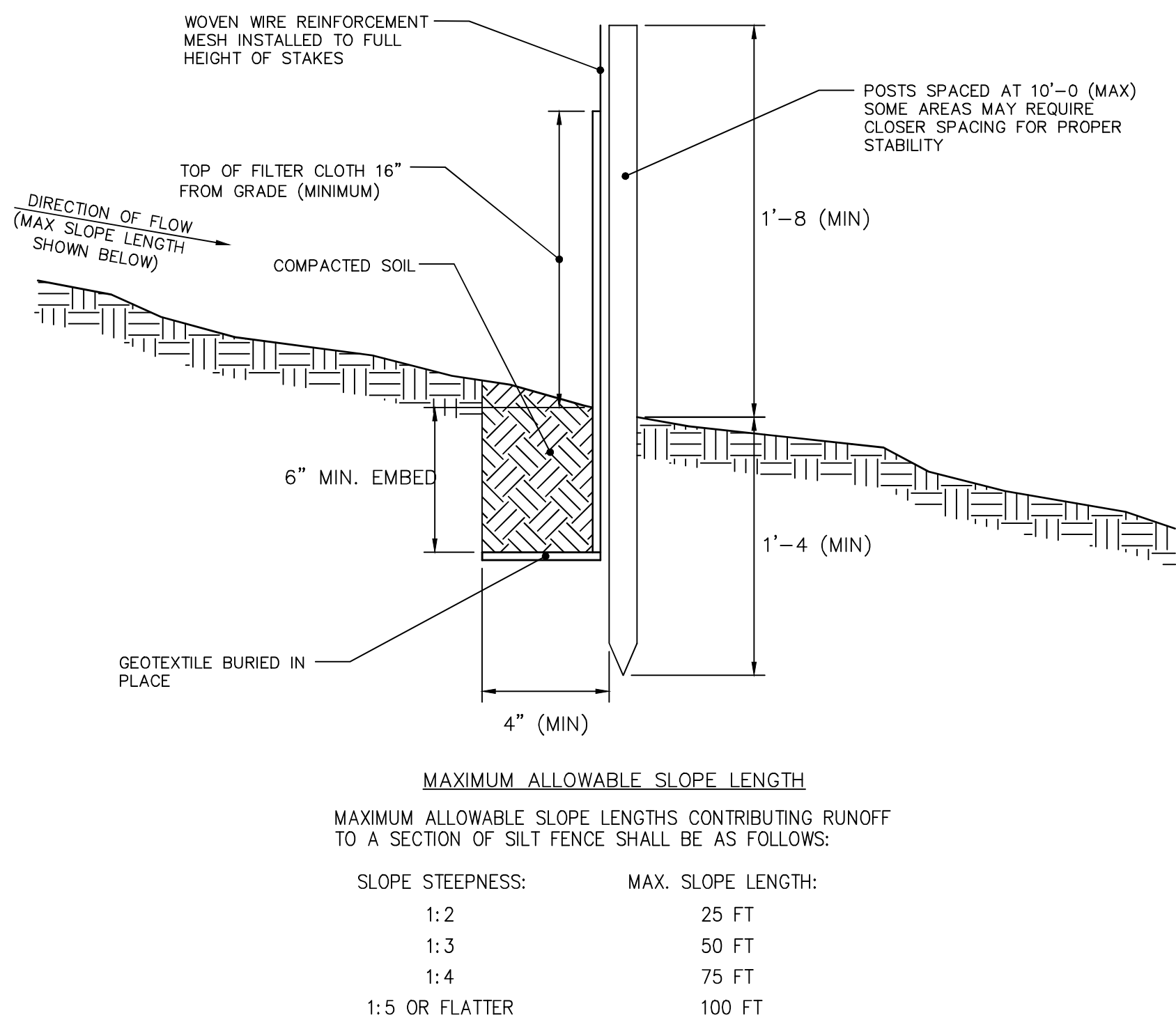
SCALE: 1"=140'

NOTES:

1. ALL PROPOSED INSTALLATIONS OF BACKFLOW PREVENTION DEVICES(S) TO BE UTILIZED ON ALL DOMESTIC WATER SERVICES FOR HUMAN CONSUMPTION MUST BE LEAD-FREE IN COMPLIANCE WITH THE AMENDED SAFE DRINKING WATER ACT (SECTION 1417).
2. THE DEPARTMENT OF HEALTH WILL ONLY ACCEPT THOSE BACKFLOW PREVENTION DEVICES/ASSEMBLIES WHICH APPEAR ON THE CURRENT EDITION OF THE LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES GENERATED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS- CONNECTION CONTROL AND HYDRAULIC RESEARCH BYPASS PIPING WITHOUT CROSS-CONNECTION PROTECTION IS PROHIBITED. IF A BYPASS IS NECESSARY, A BACKFLOW PREVENTION DEVICE MUST BE INSTALLED ON SUCH.
3. THE BACKFLOW PREVENTER MUST BE INSTALLED A MINIMUM OF THIRTY INCHES (30") ABOVE THE FLOOR LEVEL OR EIGHTEEN INCHES (18") FROM THE FLOOR TO THE BOTTOM OF DISCHARGE PORT (WHICHEVER IS GREATER). DEVICES MUST BE INSTALLED SO THAT THERE IS ACCESS FOR SERVICING AND TESTING. ANY DEVICES INSTALLED AT GREATER THAN 5'-0" OFF THE FLOOR MUST INCLUDE AN OSHA APPROVED SAFETY PLATFORM FOR TEST PROCEDURES.
4. A DEVICE CANNOT BE INSTALLED CLOSER THAN TWENTY-FOUR INCHES (24") FROM A CEILING OR ANY VERTICAL OBSTRUCTION(S).
5. A MINIMUM OF TWELVE INCHES (12") OF CLEAR SPACE SHALL BE MAINTAINED ABOVE THE SHUT OFF VALVE.
6. A MINIMUM OF THIRTY INCHES (30") IS REQUIRED IN FRONT OF THE BACKFLOW PREVENTER. A MINIMUM OF EIGHT INCHES (8") IS REQUIRED BEHIND THE BACKFLOW PREVENTER. DEVICES IN PARALLEL MUST BE THIRTY INCHES (30") APART.
7. VALVES MUST BE SITUATED ON BOTH SIDES OF THE BACKFLOW PREVENTION DEVICE. A STRAINER MUST BE PLACED ON THE FEED SIDE OF ALL DEVICES OTHER THAN FIRE SERVICES UTILIZING DOUBLE CHECK VALVES.
8. DOUBLE CHECK VALVES SHALL BE INSTALLED AND CERTIFIED BY A CERTIFIED BACKFLOW TESTER. DOUBLE CHECK VALVES SHALL BE UNINSTALLED AND WINTERIZED PRIOR TO FREEZING SEASON. FOLLOWING THE FREEZING SEASON THE DOUBLE CHECK VALVE WILL BE INSTALLED AND CERTIFIED BY A CERTIFIED BACKFLOW TESTER PRIOR TO WATER SERVICE USE.
9. ADEQUATE LIGHTING FOR TESTING WILL BE PROVIDED.



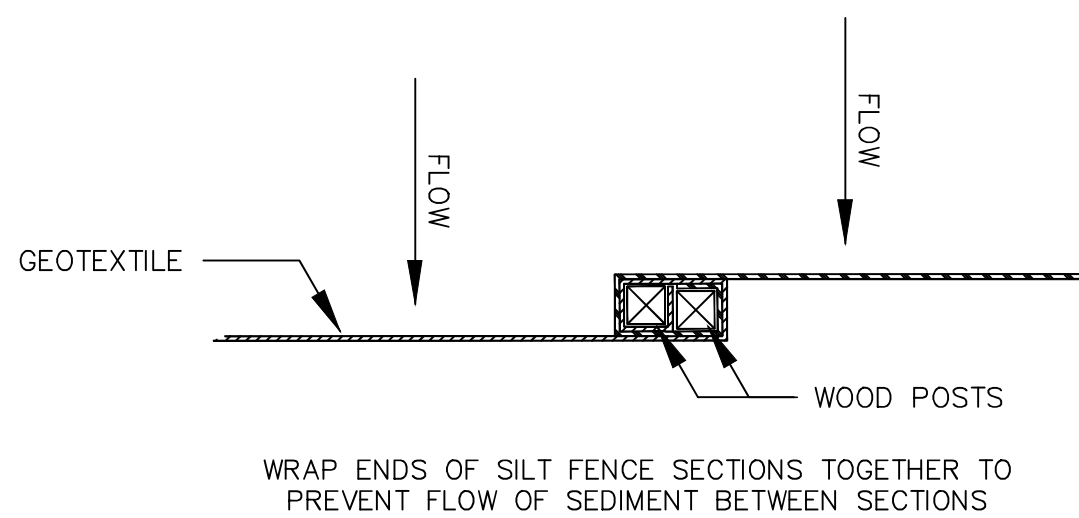
INLET PROTECTION "GRATE GATOR TYPE A" DETAIL
N.T.S.



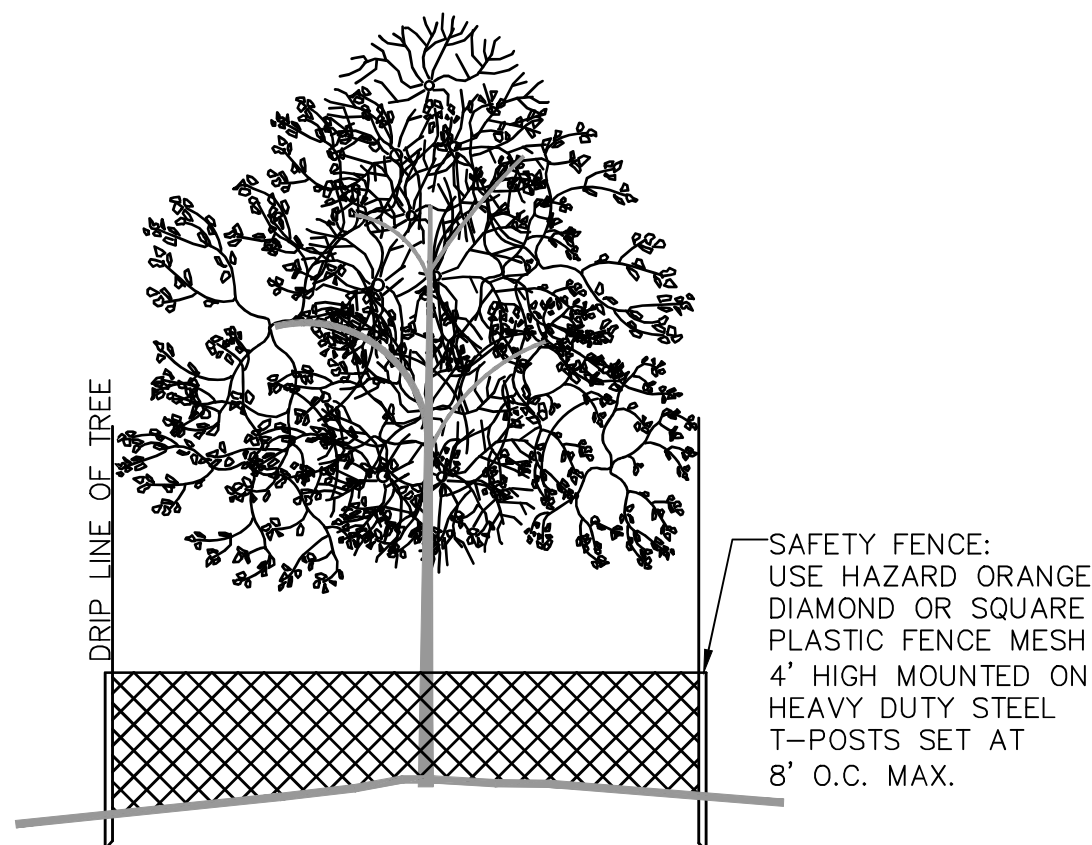
NOTE: MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO SILT FENCE SECTION SHALL NOT EXCEED 1/4 ACRE PER 100 FT OF FENCE. CONCENTRATED DISCHARGE OF SEDIMENT LADEN WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY TO THE FENCING.

SEDIMENT CONTROL FENCE INSTALLATION DETAIL
N.T.S.

- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. INSTALL SILT FENCE IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 5A.
 2. WOVEN WIRE FENCE SHALL BE 12 1/2 GA., 6" MAXIMUM MESH OPENING, FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 3. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE WRAPPED TOGETHER PER DETAIL ON THIS PAGE.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN ACCUMULATION REACHES 1/2 OF DESIGN CAPACITY OF FENCE (1/2 HEIGHT OF FILTER FABRIC) OR WHEN "BULGES" DEVELOP IN FENCING.
- POSTS: STEEL EITHER "1" OR " U" TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 12 1/2 GA. 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

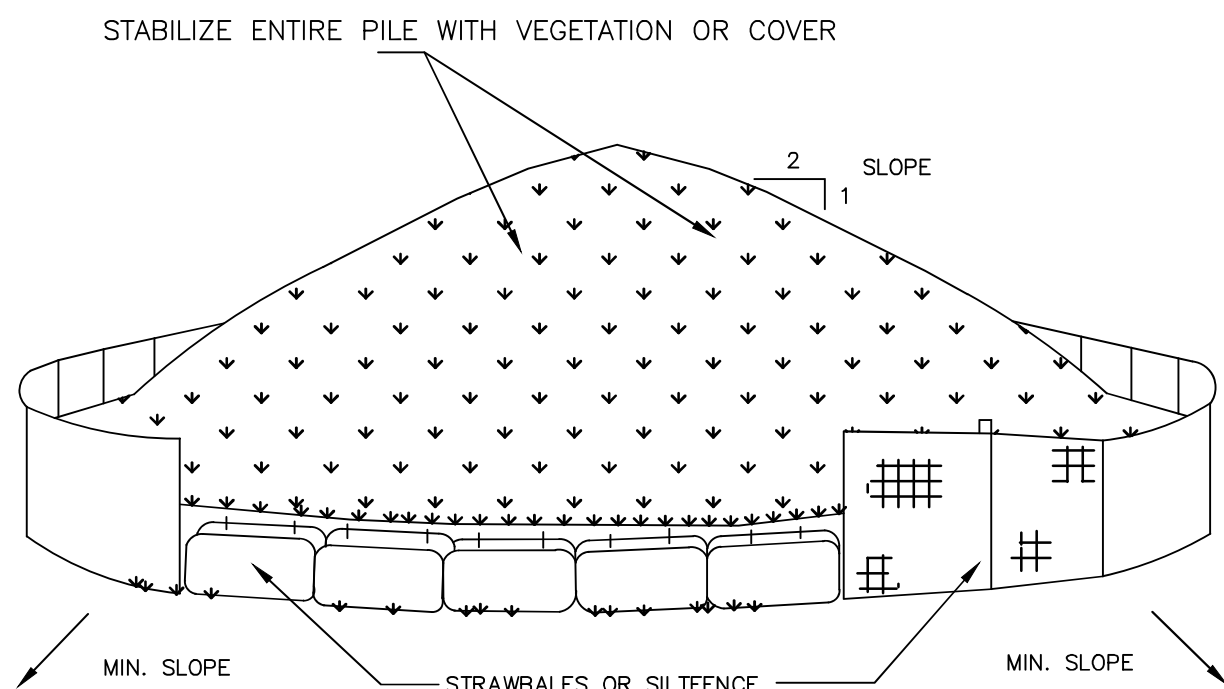


SILT FENCE JOINT DETAIL



- NOTES:
1. THE PROJECT DEVELOPER SHALL TAKE REASONABLE PRECAUTION TO SAVE SPECIMEN QUALITY TREES IN AREAS NOTED ON THE PLANS FOR CLEARING. WHEN POSSIBLE THE DEVELOPER SHALL PROTECT INDIVIDUAL SPECIMEN TREES THROUGH THE INSTALLATION OF SAFETY FENCING AROUND THE DRIP LINE PERIMETER OF THE TREE.
 2. SAFETY FENCING SHALL BE INSTALLED AT THE ON SET OF SITE CONSTRUCTION TO PREVENT VEHICLE TRAFFIC FROM COMPACTING THE SOILS IN THE VICINITY OF THE TREE ROOT STRUCTURE.
 3. PROTECT ALL TREES WITHIN AREA OF DISTURBANCE OVER 6" CAL.

TREE PROTECTION DETAIL
N.T.S.



NOTE:
SEE SHEET 6 FOR LOCATION.
INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SILT FENCE DETAIL FOR INSTALLATION OF SILTFENCE.

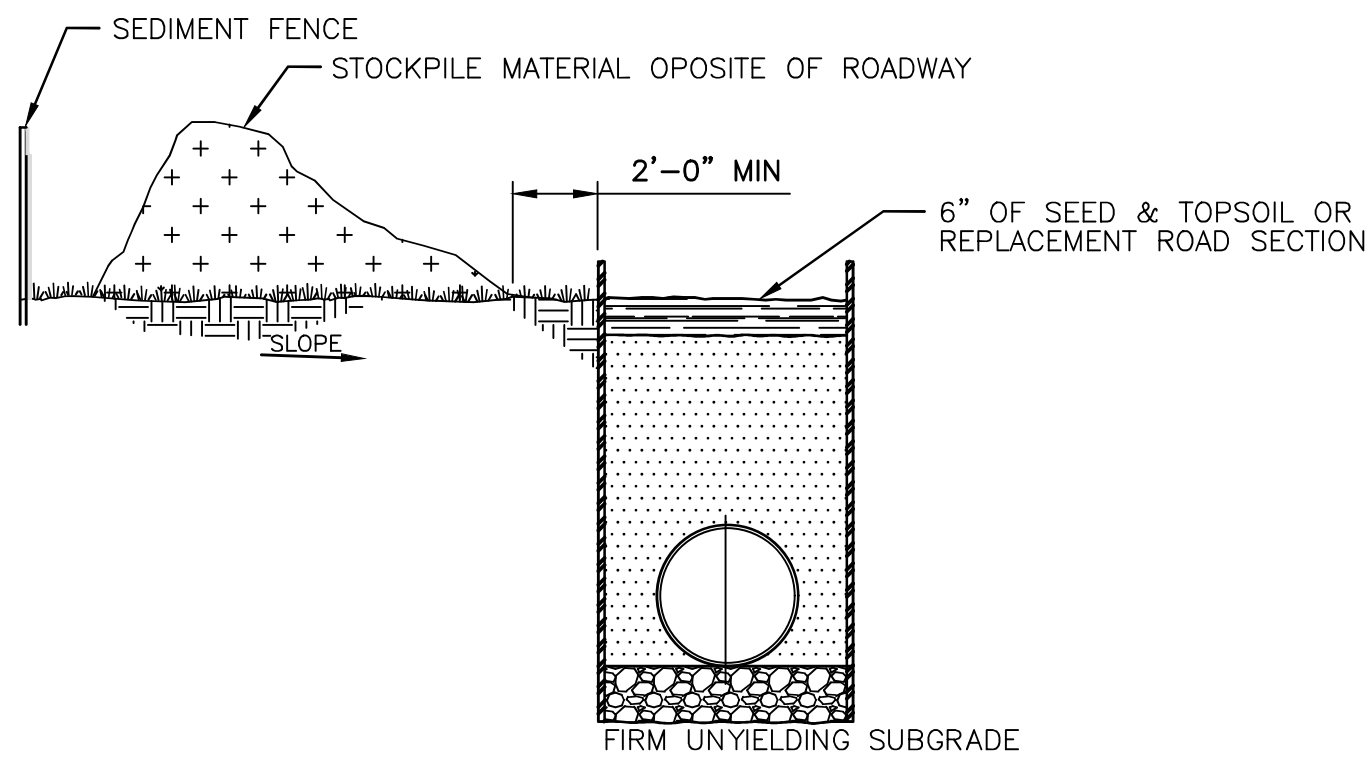
TIMING

TOPSOIL SHOULD NOT BE STRIPPED, STOCKPILED, OR REPLACED UNTIL APPROPRIATE SEDIMENT CONTROL DEVICES ARE IN PLACE. TOPSOILING SHOULD NOT OCCUR DURING WINTER MONTHS. SOILS SHOULD NOT BE STRIPPED OR STOCKPILED UNLESS CONSTRUCTION IS SCHEDULED WITHIN THE SAME BUILDING SEASON.

MAINTENANCE

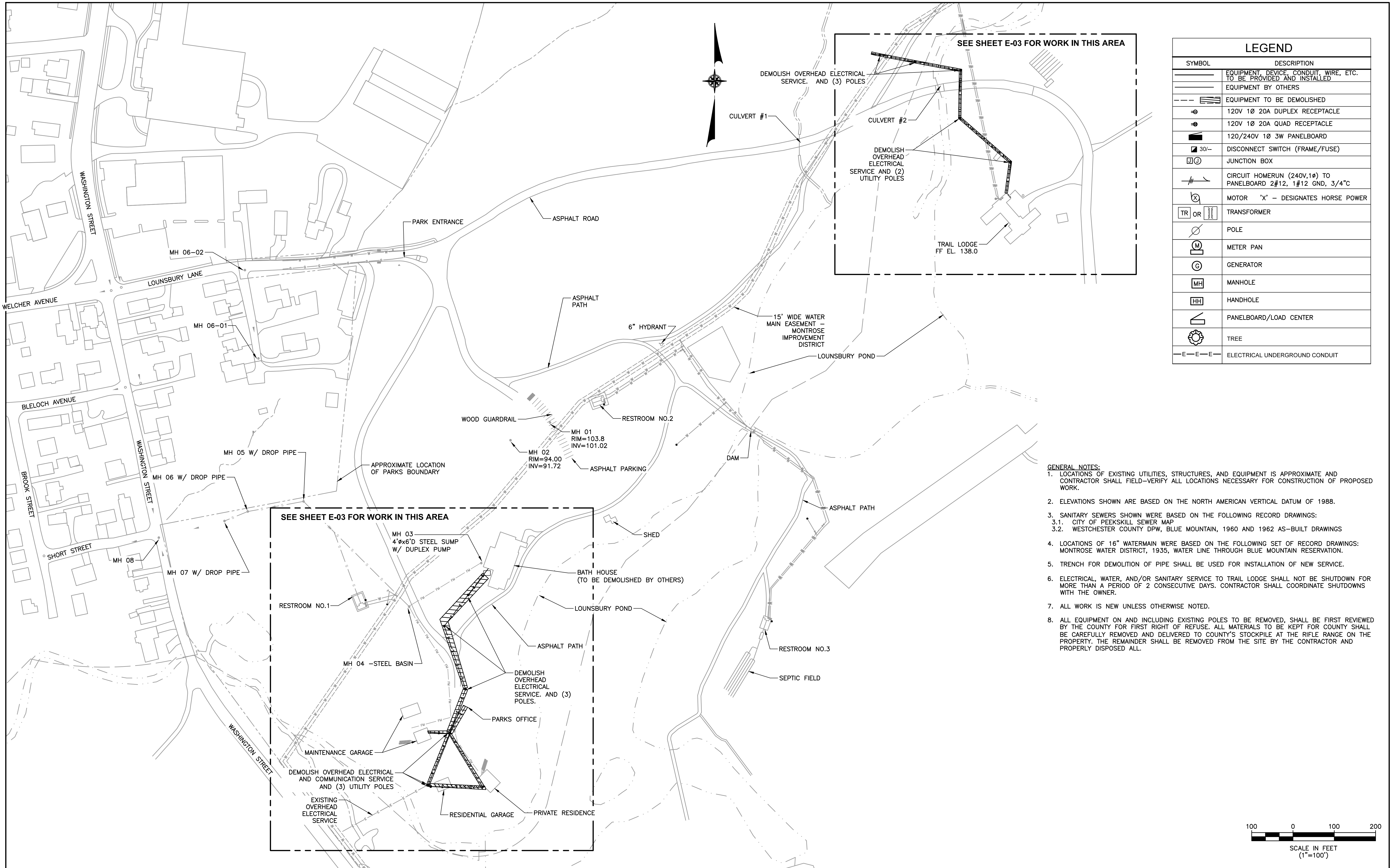
PERIMETER SEDIMENT CONTROLS MUST BE MAINTAINED ACCORDING TO THE STANDARDS DESCRIBED IN THIS MANUAL. STOCKPILES AND FILL AREAS SHALL BE INSPECTED PERIODICALLY (I.E. WEEKLY) FOR SIGNS OF EROSION OR PROBLEMS WITH PLANT ESTABLISHMENT.

MATERIAL STOCKPILING
N.T.S.

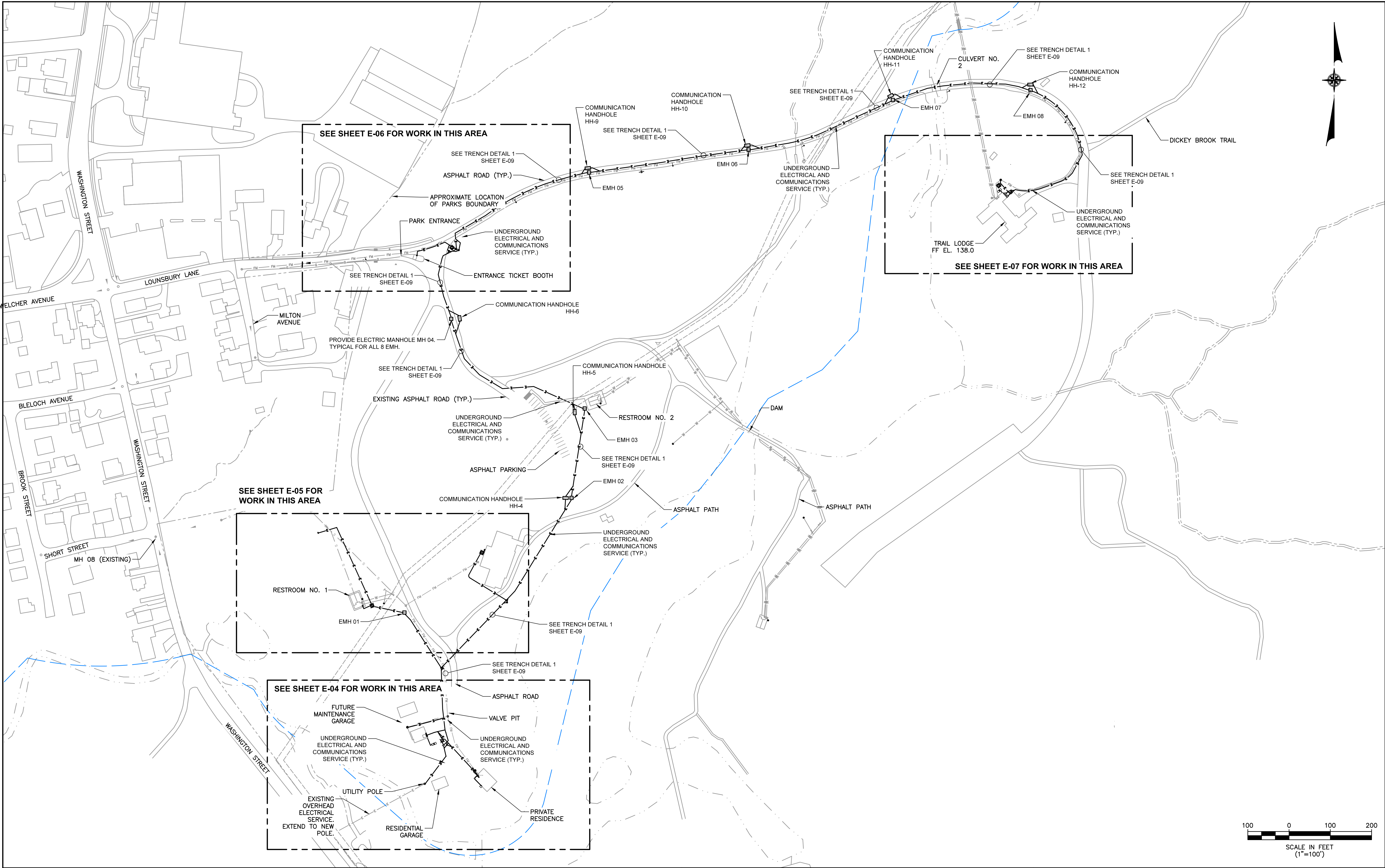


NOTE:
NO OTHER UTILITIES ARE TO BE INSTALLED WITHIN THIS TRENCH

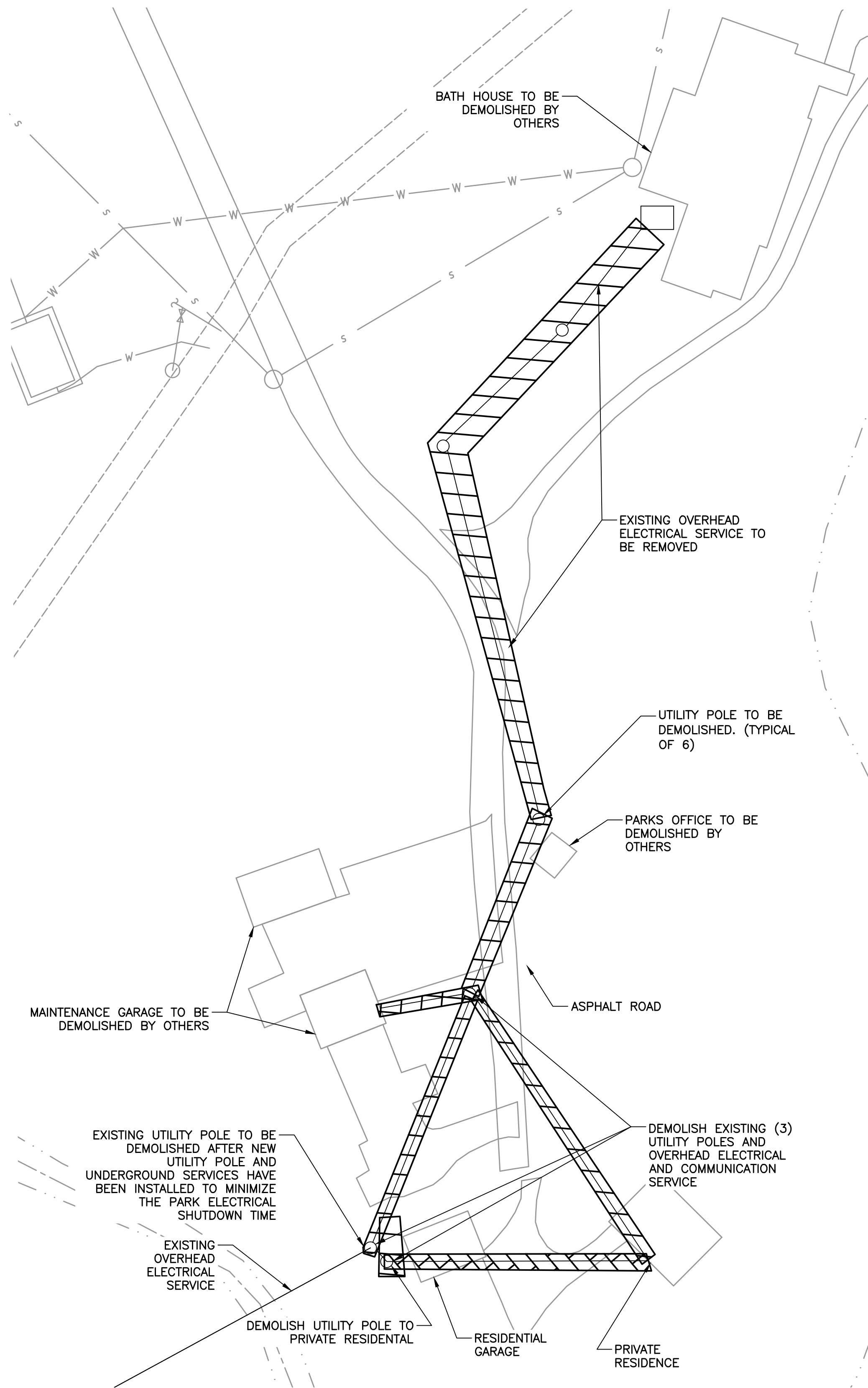
TYPICAL MATERIAL STOCK PILE NEAR TRENCH DETAIL
N.T.S.



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		IN CHARGE OF RAL								AS BUILT - CHANGES AS NOTED						SHEET NO. 22 OF 35			
		CHECKED BY MPF								AS BUILT - NO CHANGES				BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY		SCALE: 1"=100' DATE: APRIL 2021			
		MADE BY RJC												CONTRACTOR		PROJECT COORDINATOR		DPW FILE NO.	
REVISION NUMBER		DATE		MADE BY		APP'D BY		REVISION		NAME		NAME		OVERALL SITE PLAN-EXISTING CONDITIONS AND DEMOLITION PLAN		24-86-G-25		0	

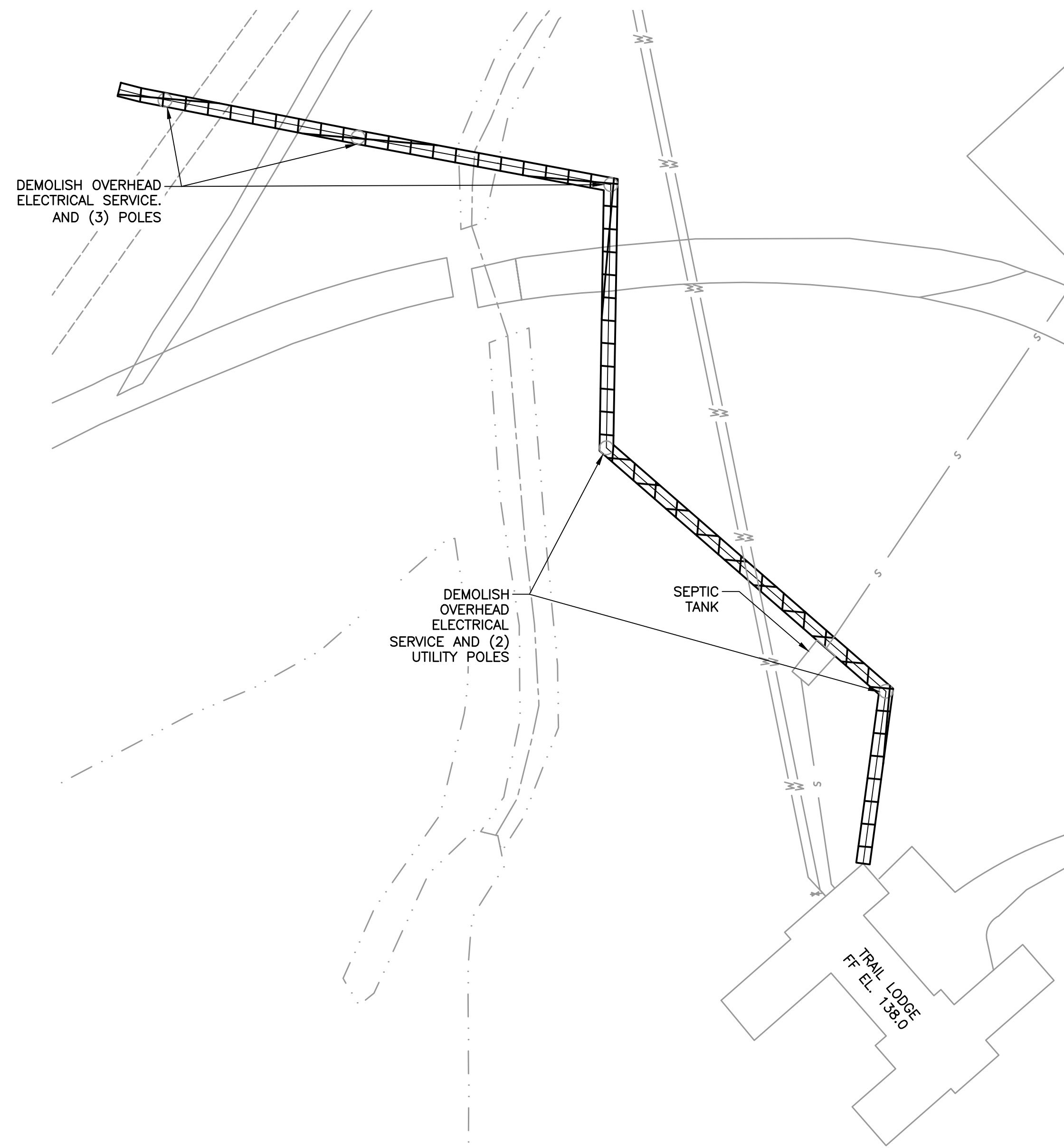


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		IN CHARGE OF JGD								AS BUILT - CHANGES AS NOTED						SHEET NO. 23 OF 35			
		CHECKED BY GRL								AS BUILT - NO CHANGES				CONTRACTOR		PROJECT COORDINATOR		SCALE: 1"=100'	
		MADE BY MG												NAME _____		NAME _____		DATE: APRIL 2021	
												SIGNATURE _____		SIGNATURE _____		DPW FILE NO.		REV. NO.	
												TITLE _____		TITLE _____		24-86-G-26		0	



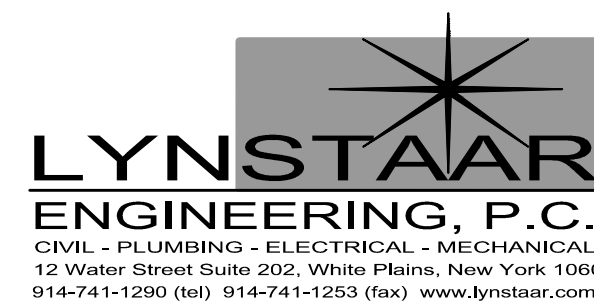
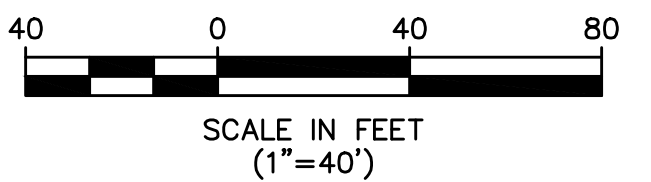
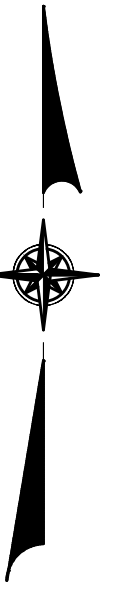
MAINTENANCE GARAGE PRIVATE RESIDENCE DEMOLITION PLAN

SCALE: 1" = 40'-0"



TRAIL LODGE DEMOLITION PLAN

SCALE: 1" = 40'-0"



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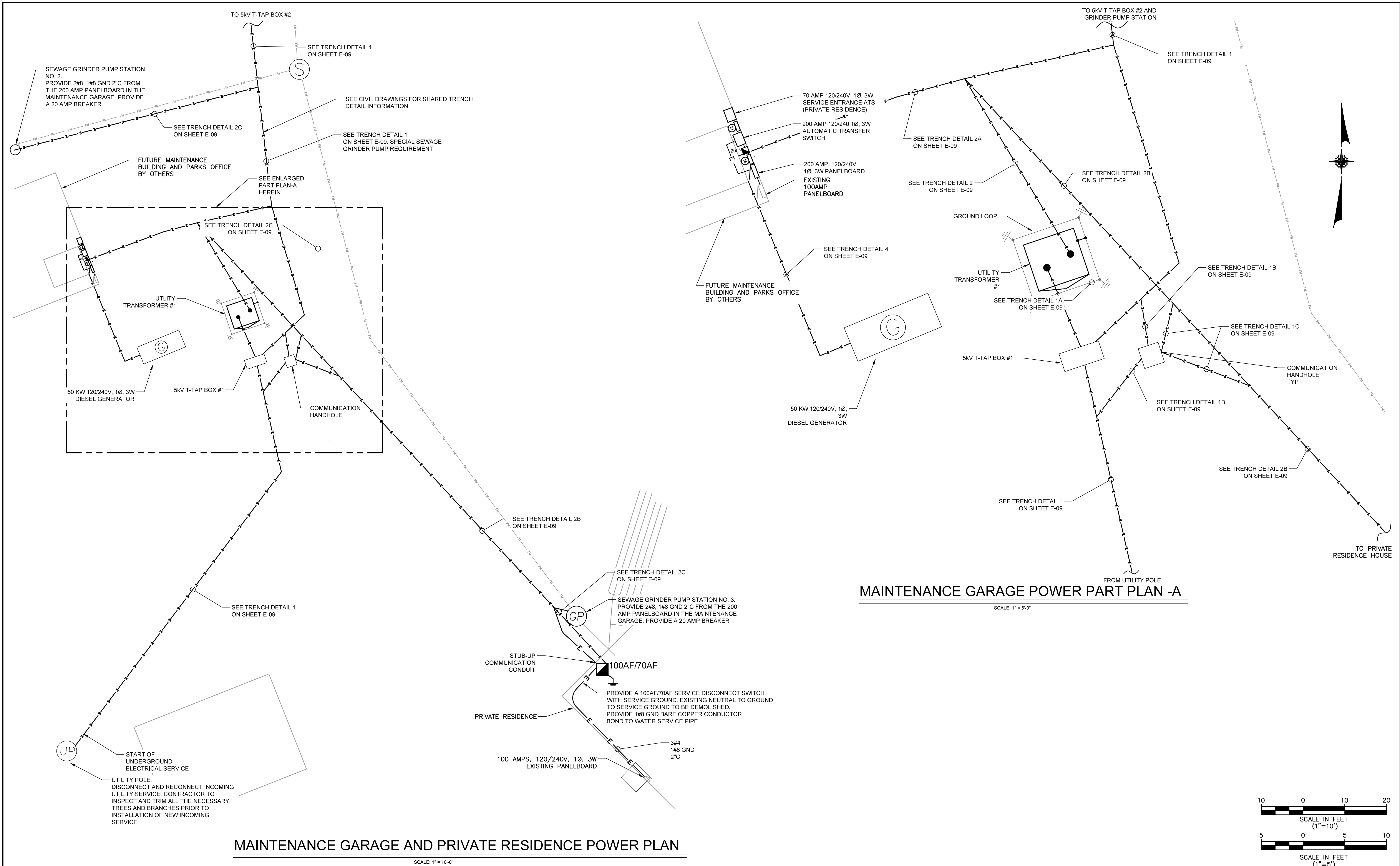
IN CHARGE OF JGD
CHECKED BY GRL
MADE BY MG

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

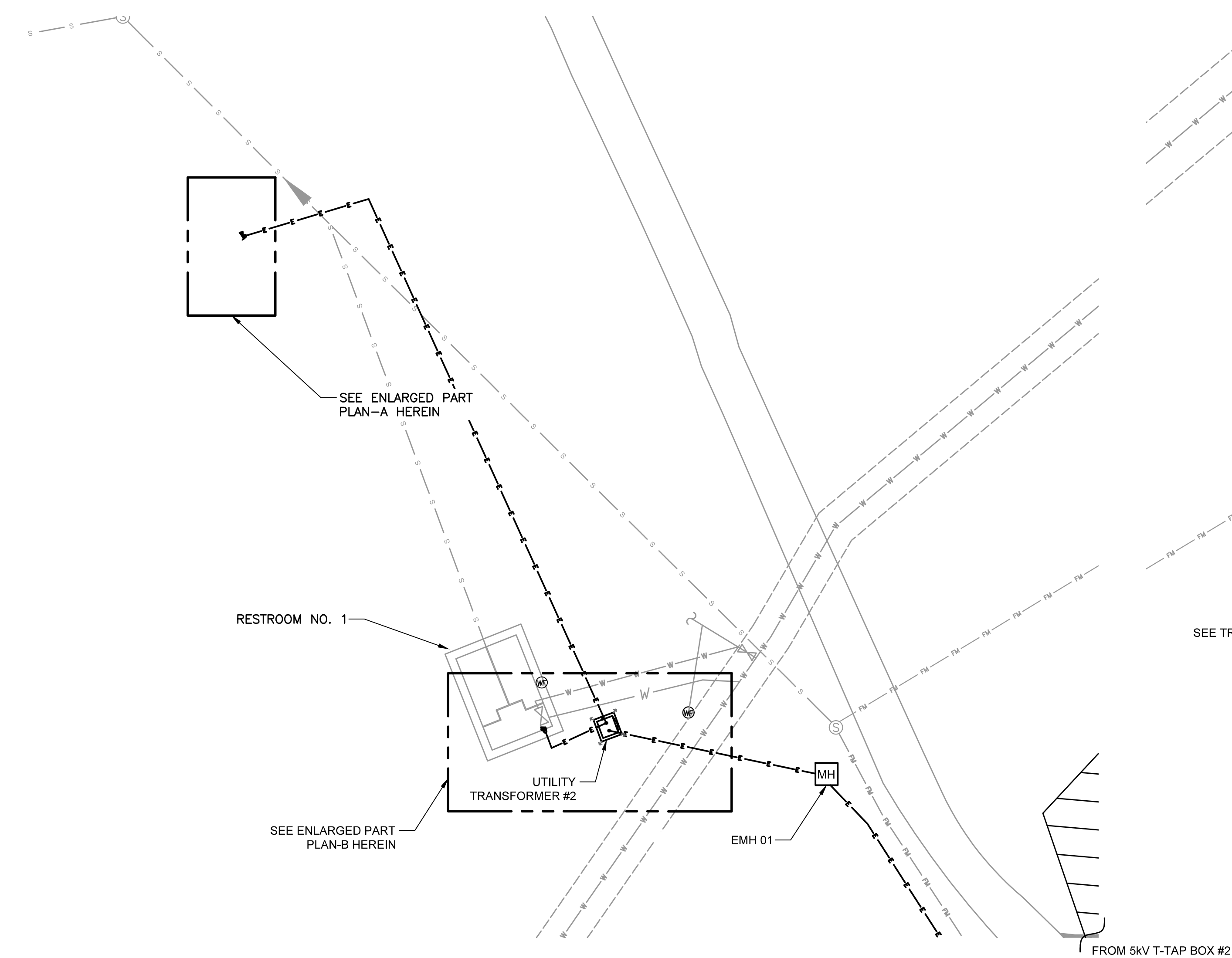
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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
	DATE		DATE

WESTCHESTER COUNTY, NEW YORK	
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	
DIVISION OF ENGINEERING	
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS	
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY	
ELECTRICAL	
MAINTENANCE GARAGE AND TRAIL LODGE DEMOLITION PLANS	

CONTRACT NUMBER 17-519	SHEET NUMBER E-03
SHEET NO. 24 OF 35	
SCALE: 1"=40'	
DATE: APRIL 2021	
DPW FILE NO. 24-86-G-27	REV. NO. 0

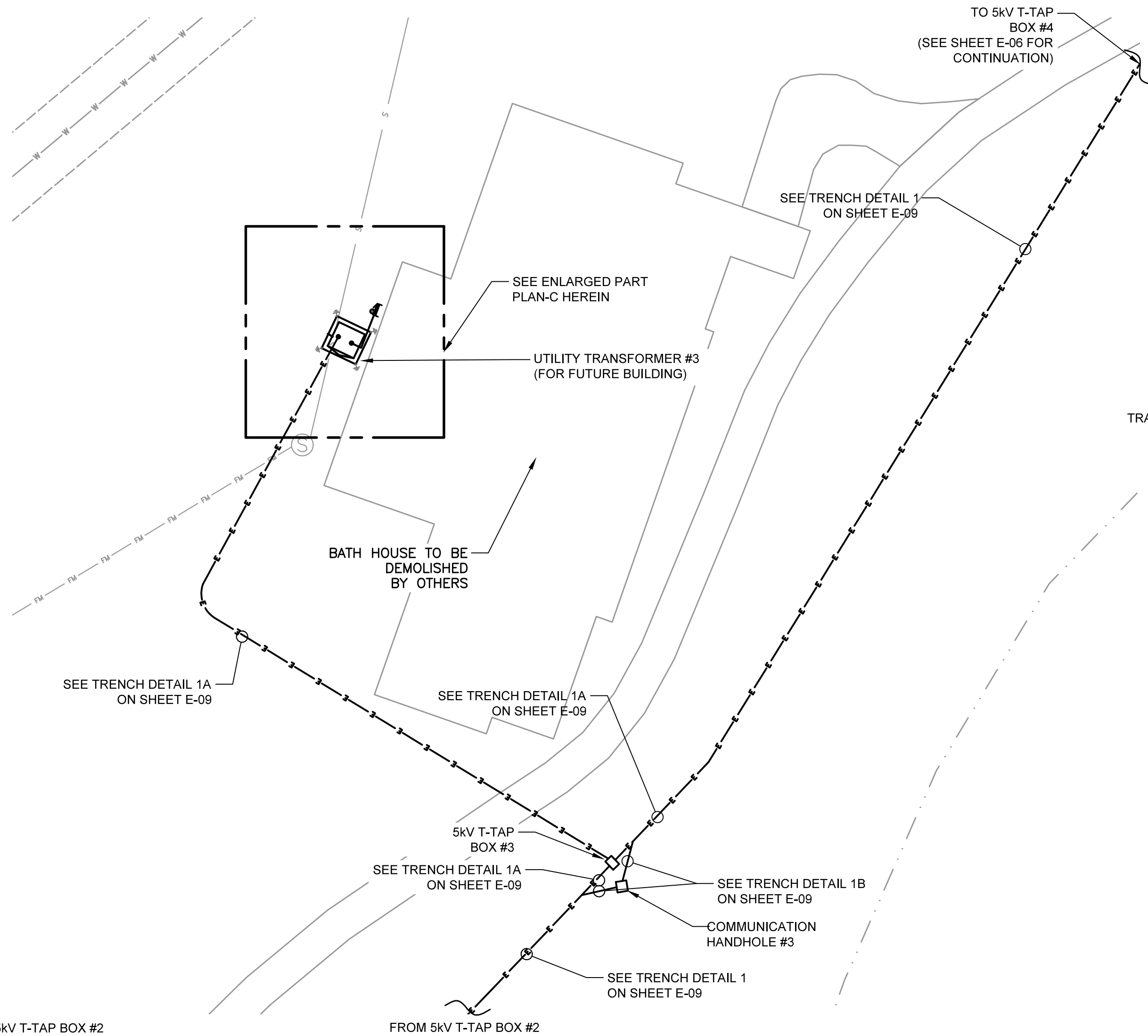


 LYNSTAAR ENGINEERING, P.C. <small>CIVIL • PLUMBING • ELECTRICAL • MECHANICAL 12 Water Street Suite 202, White Plains, New York 10601 914-741-1290 (tel) 914-741-1253 (fax) www.lynstaar.com</small>	 CONSULTANT SEAL	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.								RECORD DRAWING CERTIFICATION				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 17-519		SHEET NUMBER E-04																									
		IN CHARGE OF JGD								CONTRACTOR				PROJECT COORDINATOR				SHEET NO. 25 OF 35																											
		CHECKED BY GRL								NAME				NAME				SCALE: AS NOTED DATE: APRIL 2021																											
		MADE BY MG								SIGNATURE				SIGNATURE				DPW FILE NO. 24-86-G-28																											
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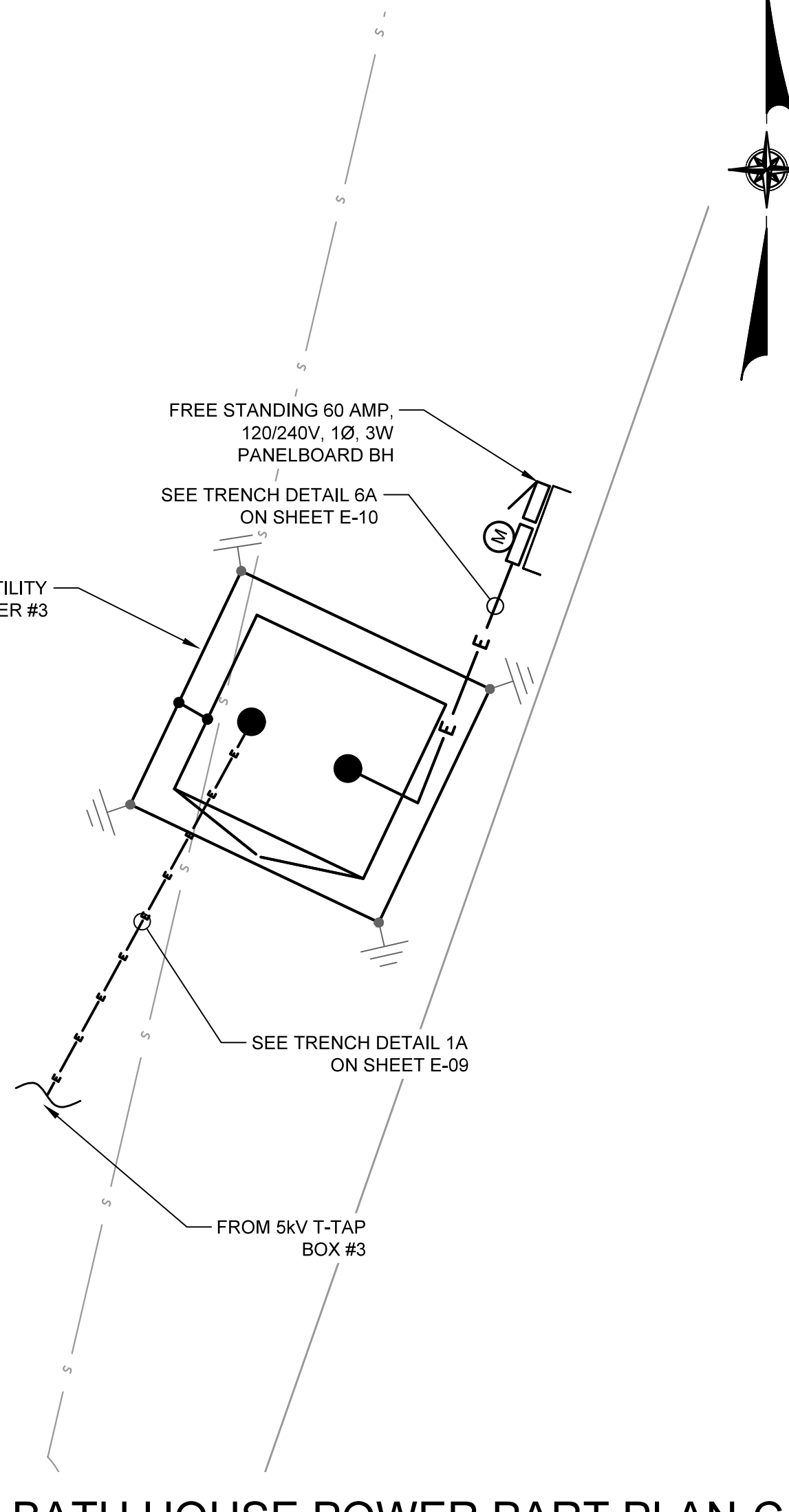
RESTROOM NO.1 POWER PLAN

SCALE: 1" = 20'-0"



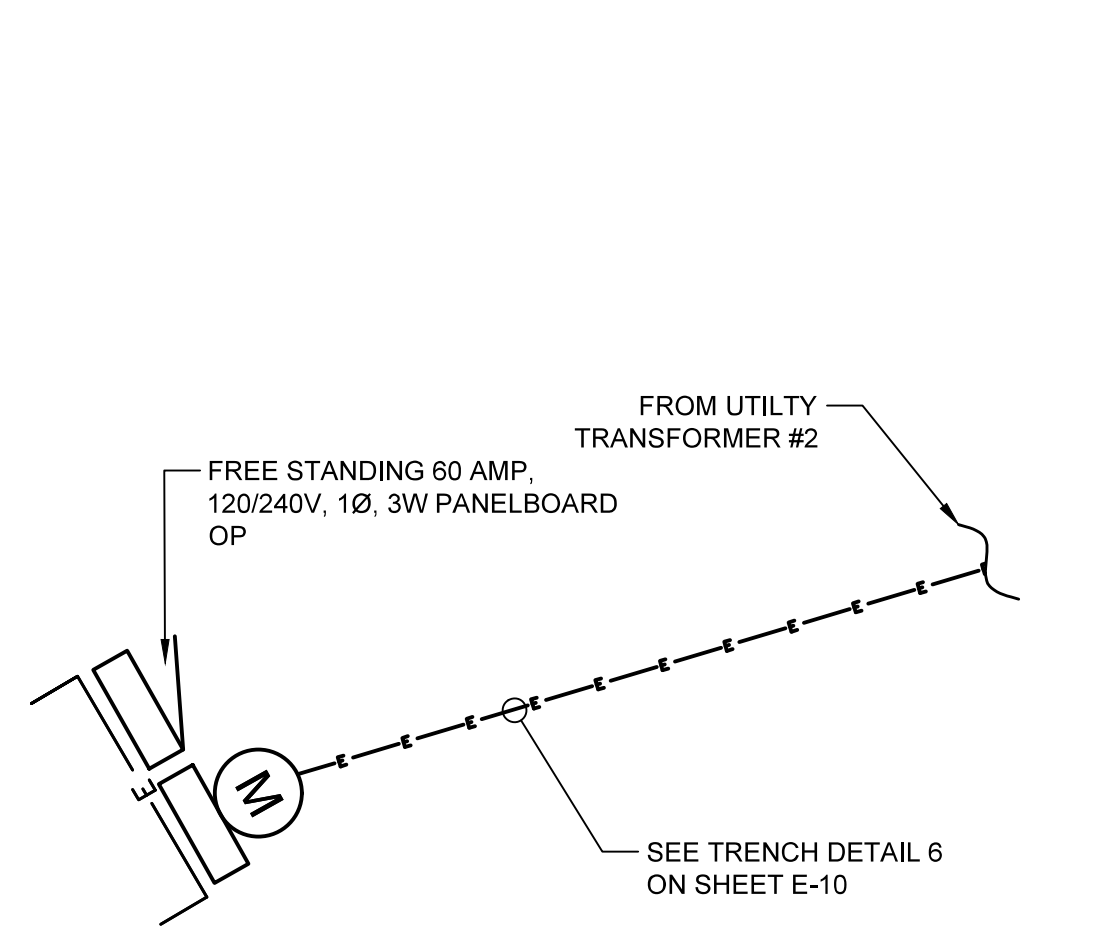
T-TAP BOX #3 AND BATH HOUSE POWER PLAN

SCALE: 1" = 10'-0"



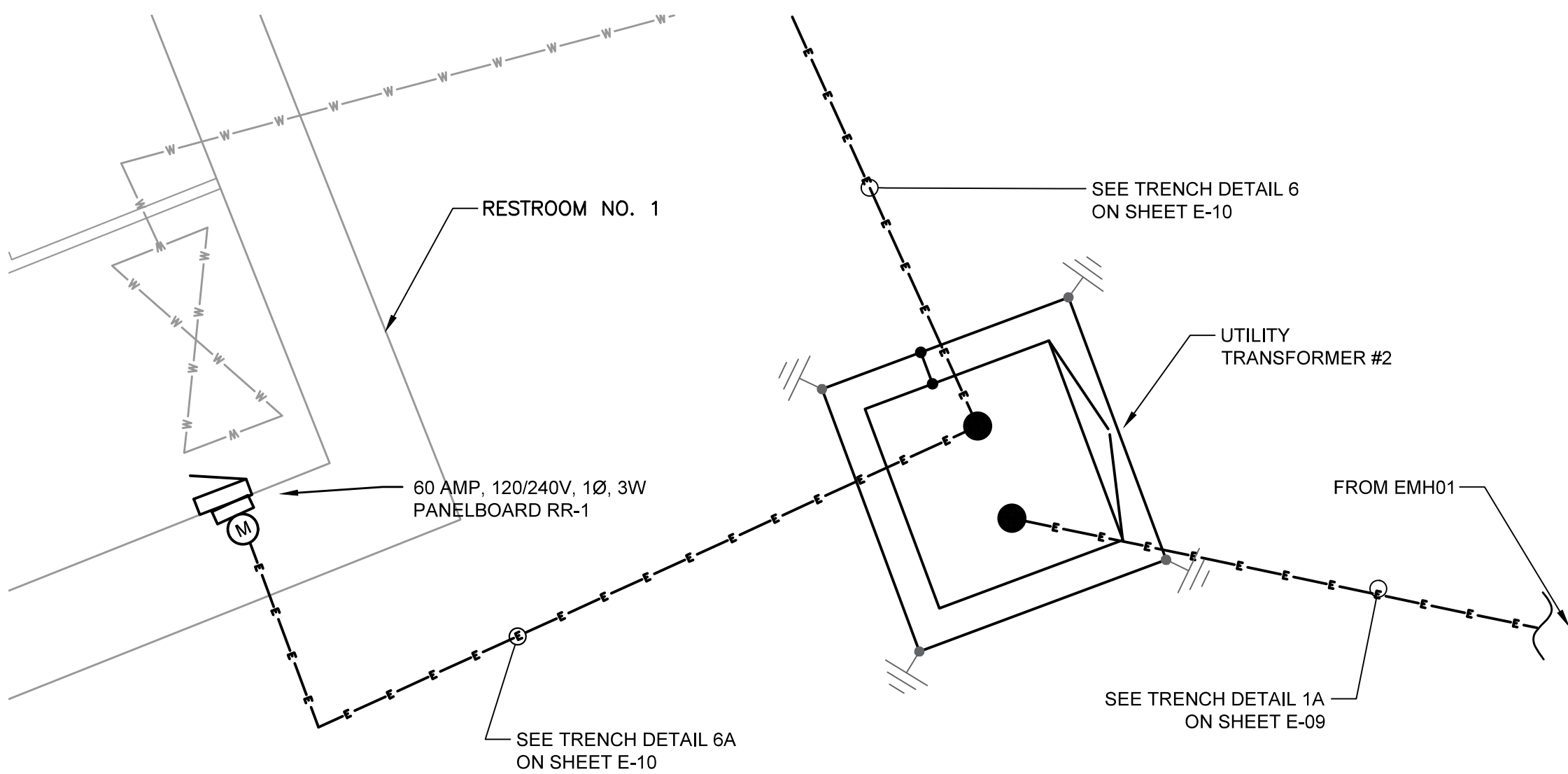
BATH HOUSE POWER PART PLAN-C

SCALE: 1" = 4'-0"



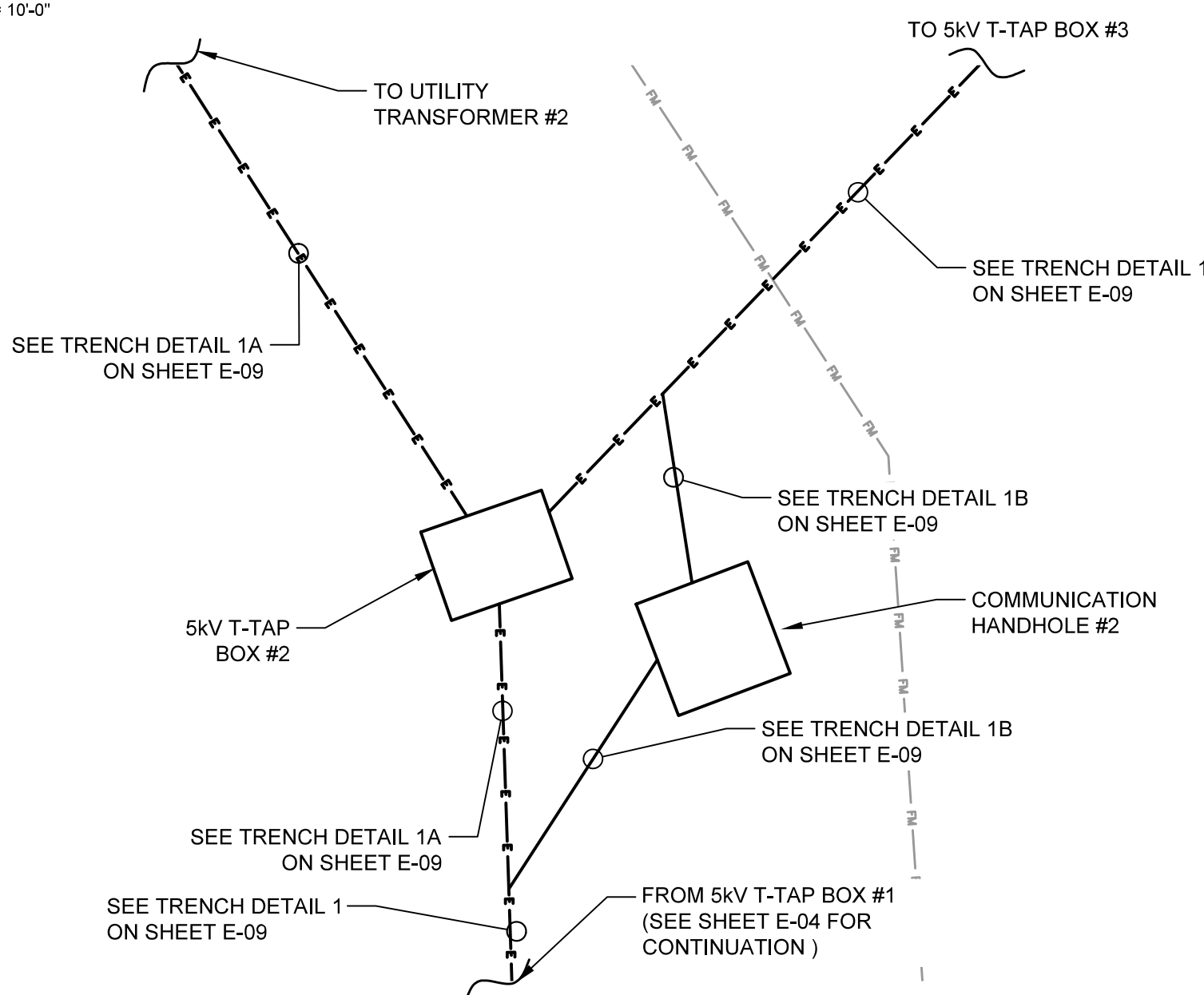
OPEN FIELD POWER PART PLAN-A

SCALE: 1" = 2'-0"



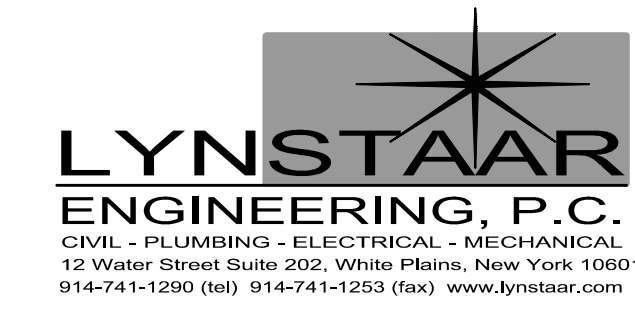
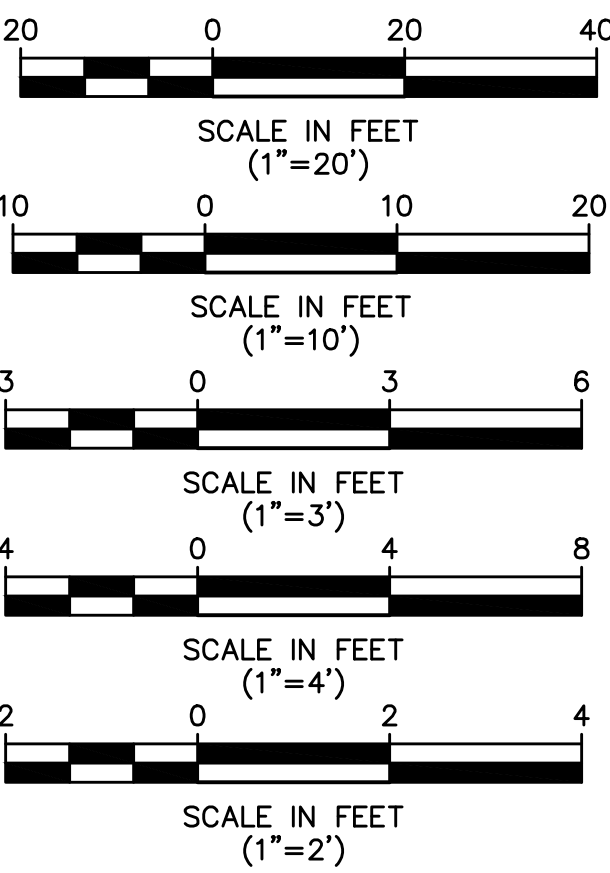
RESTROOM NO.1 POWER PART PLAN-B

SCALE: 1" = 4'-0"



T-TAP BOX #2 POWER PART

SCALE: 1" = 3'-0"



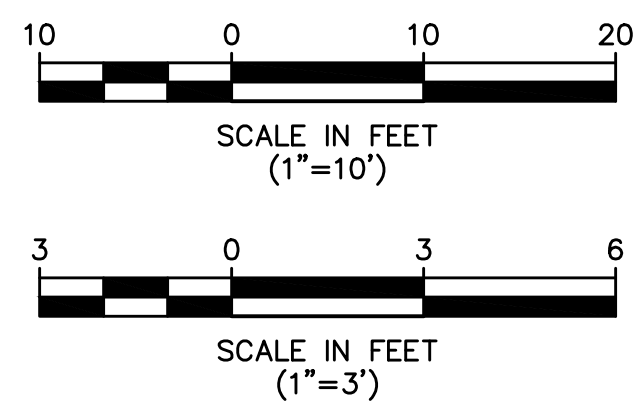
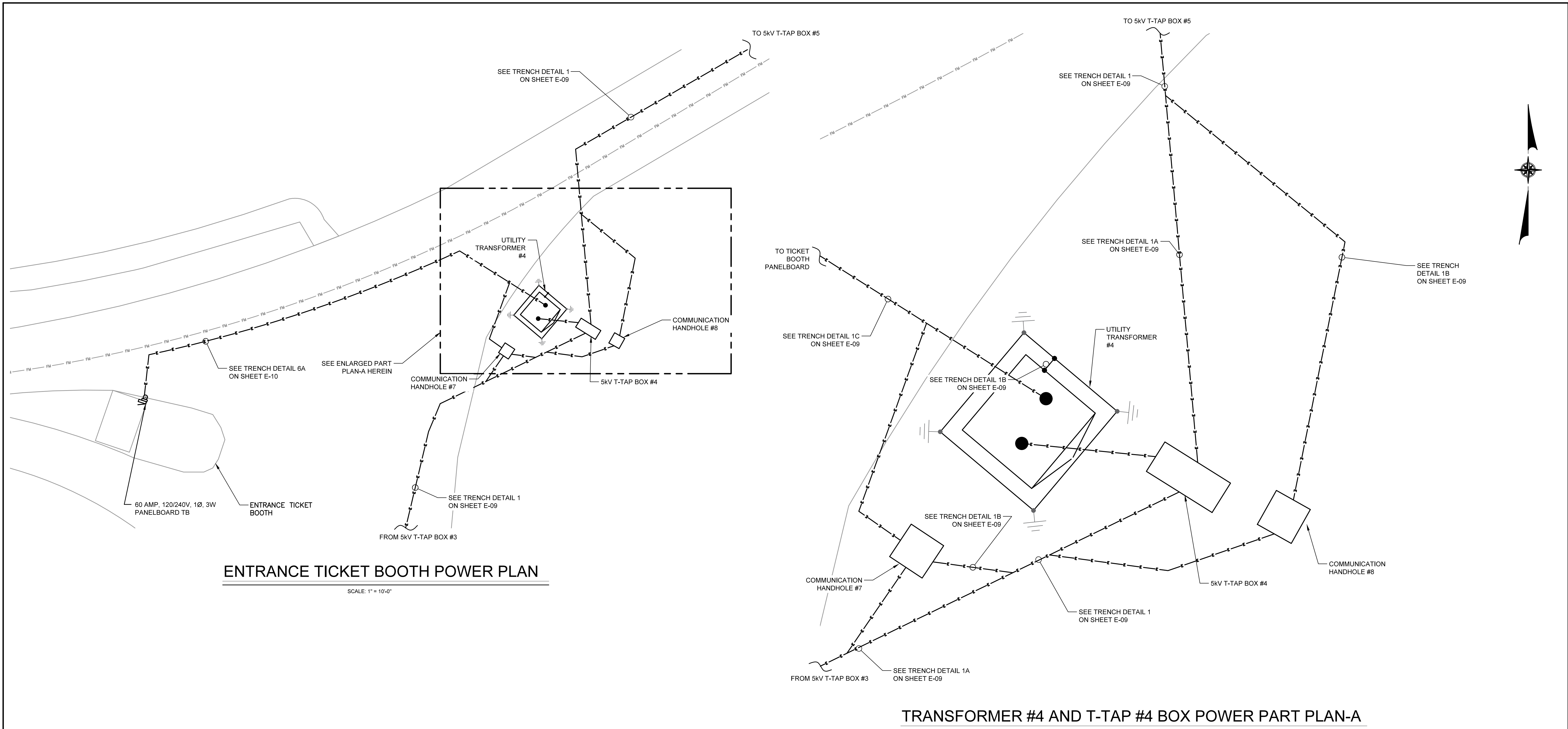
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MADE BY MG

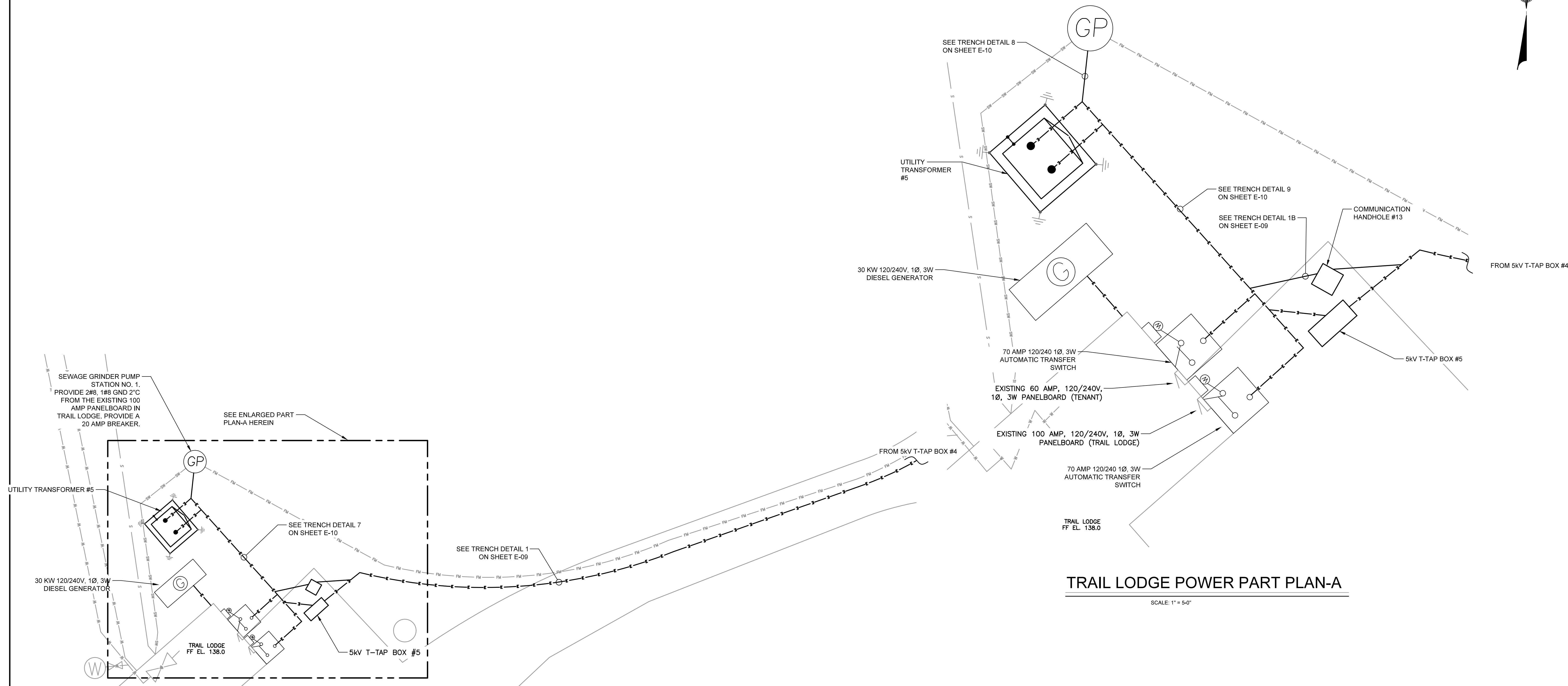
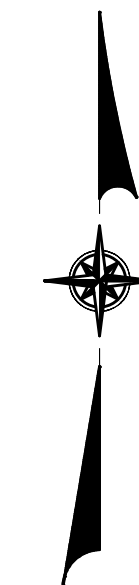
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 17-519	SHEET NUMBER E-05
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY ELECTRICAL RESTROOM NO. 1 AND BATH HOUSE POWER PLANS		SHEET NO. 26 OF 35	SCALE: AS NOTED DATE: APRIL 2021
DPW FILE NO. 24-86-G-29		REV. NO. 0	



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		IN CHARGE OF <u>JGD</u>					
		CHECKED BY <u>GRL</u>					
		MADE BY <u>MG</u>					
REVISION NUMBER		DATE	MADE BY	APP'D BY	REVISION		
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CONTRACTOR			PROJECT COORDINATOR				
NAME _____			NAME _____				
SIGNATURE _____			SIGNATURE _____				
TITLE _____ DATE _____			TITLE _____ DATE _____				
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING							
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY ELECTRICAL ENTRANCE TICKET BOOTH POWER PLANS							
CONTRACT NUMBER 17-519		SHEET NUMBER E-06		SHEET NO. 27 OF 35			
SCALE: AS NOTED		DATE: APRIL 2021		REV. NO. 0			
DPW FILE NO. 24-86-G-30							

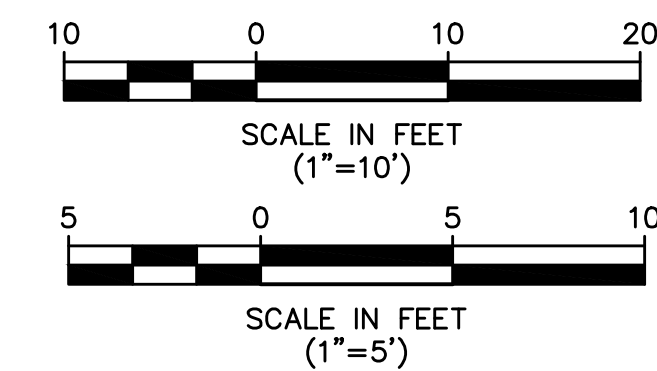


TRAIL LODGE POWER PLAN

SCALE: 1" = 10'-0"

TRAIL LODGE POWER PART PLAN-A

SCALE: 1" = 5'-0"



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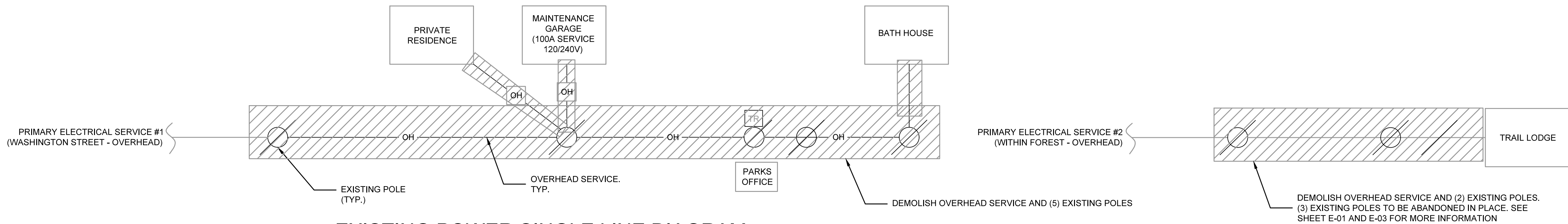
IN CHARGE OF JGD
CHECKED BY GRL
MADE BY MG

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

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CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	

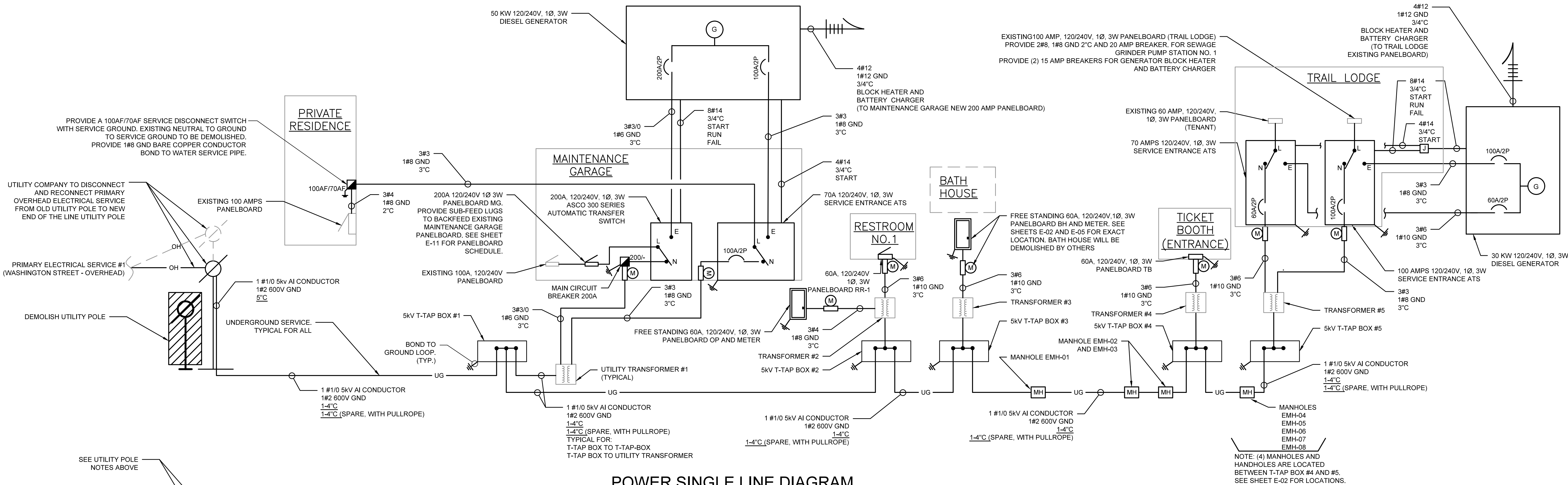
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY ELECTRICAL TRAIL LODGE POWER PLAN	

CONTRACT NUMBER 17-519	SHEET NUMBER E-07
SHEET NO. 28 OF 35	
SCALE: AS NOTED DATE: APRIL 2021	
DPW FILE NO. 24-86-G-31	REV. NO. 0



EXISTING POWER SINGLE LINE DIAGRAM

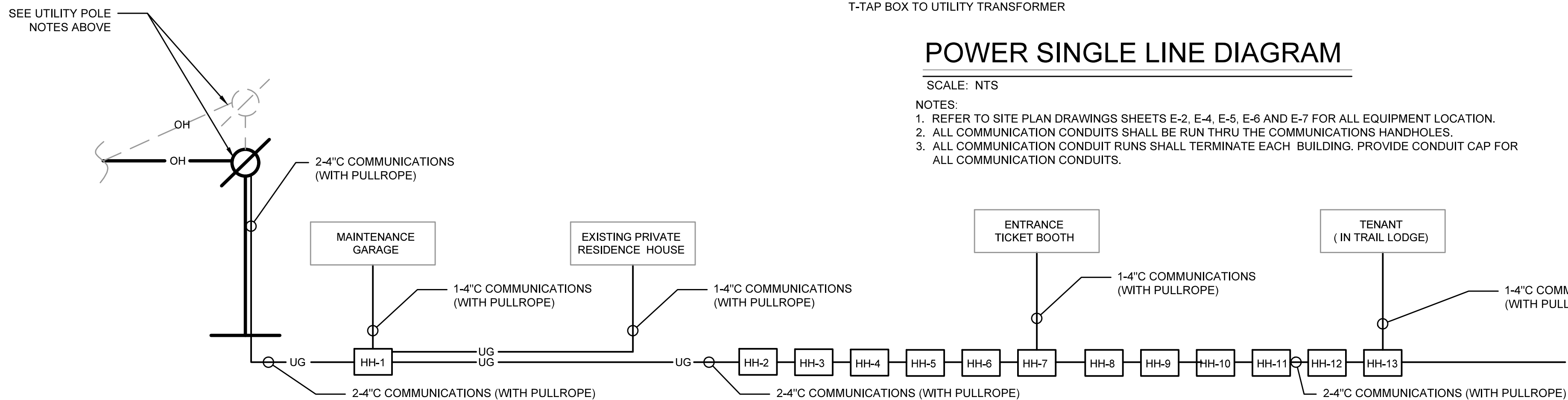
SCALE: NTS



POWER SINGLE LINE DIAGRAM

SCALE: NTS

- NOTES:
1. REFER TO SITE PLAN DRAWINGS SHEETS E-2, E-4, E-5, E-6 AND E-7 FOR ALL EQUIPMENT LOCATION.
 2. ALL COMMUNICATION CONDUITS SHALL BE RUN THRU THE COMMUNICATIONS HANDHOLES.
 3. ALL COMMUNICATION CONDUIT RUNS SHALL TERMINATE EACH BUILDING. PROVIDE CONDUIT CAP FOR ALL COMMUNICATION CONDUITS.



COMMUNICATION SINGLE LINE DIAGRAM

SCALE: NTS

- NOTES:
1. ALL COMMUNICATION CONDUITS SHALL BE RUN THRU THE COMMUNICATIONS HANDHOLES.
 2. ALL COMMUNICATION CONDUIT RUNS SHALL TERMINATE EACH BUILDING. PROVIDE CONDUIT CAP FOR ALL COMMUNICATION CONDUITS.



CONSULTANT SEAL



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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

- ☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
ELECTRICAL
POWER AND COMMUNICATION SINGLE LINE DIAGRAM

CONTRACT NUMBER 17-519

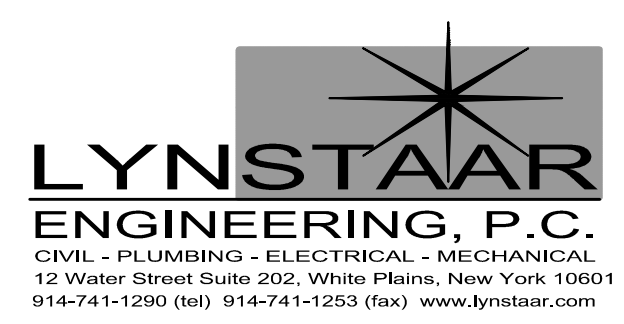
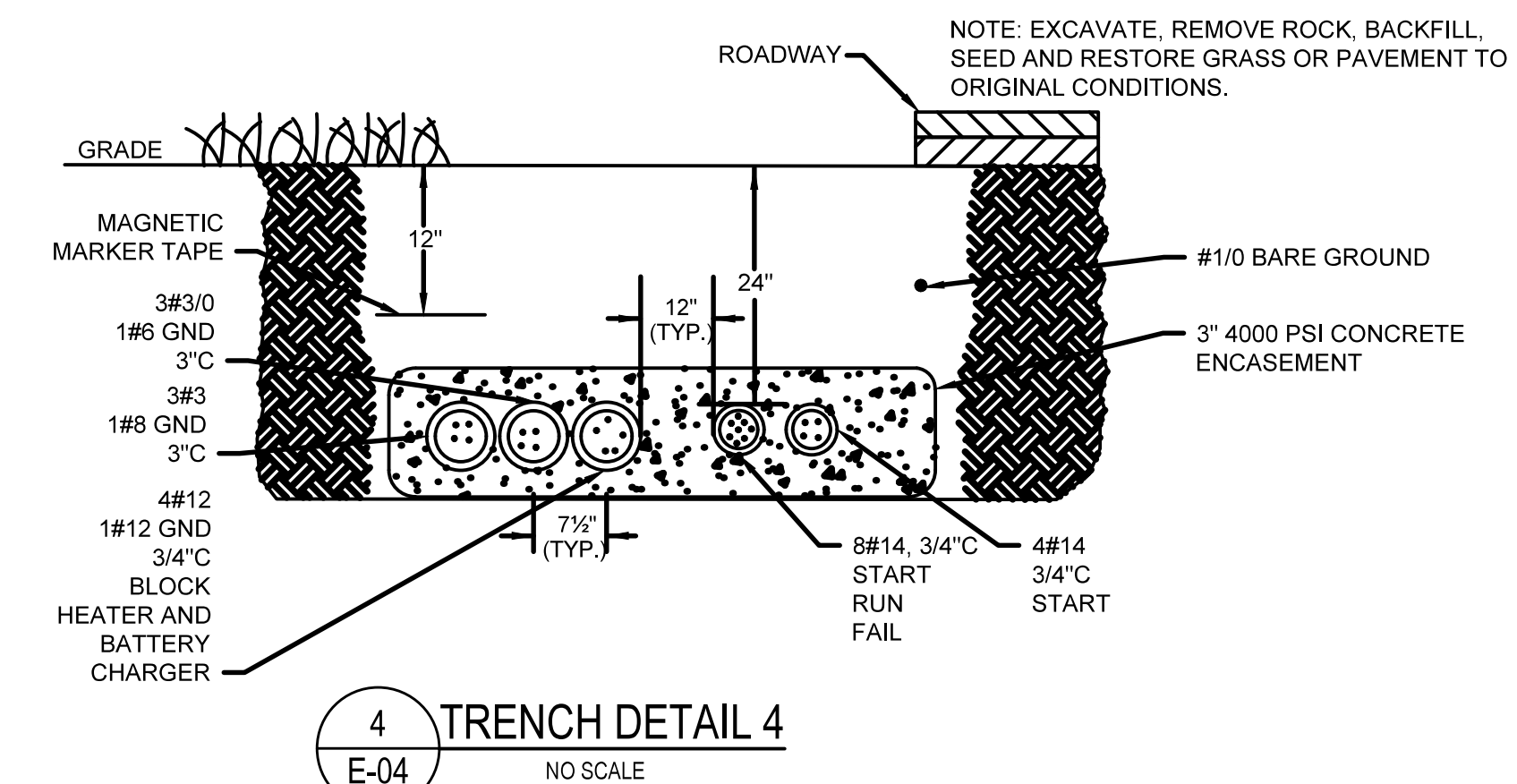
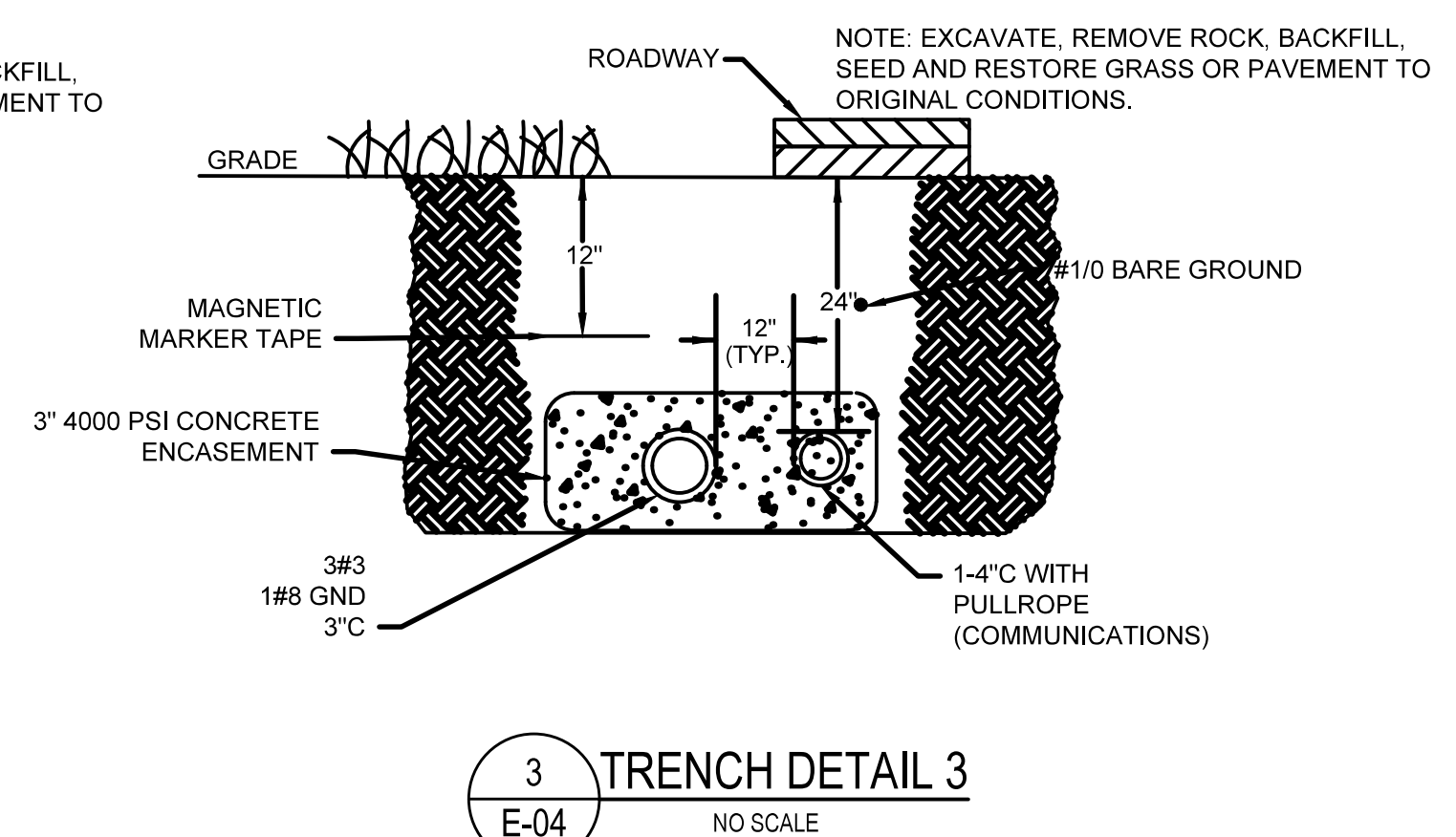
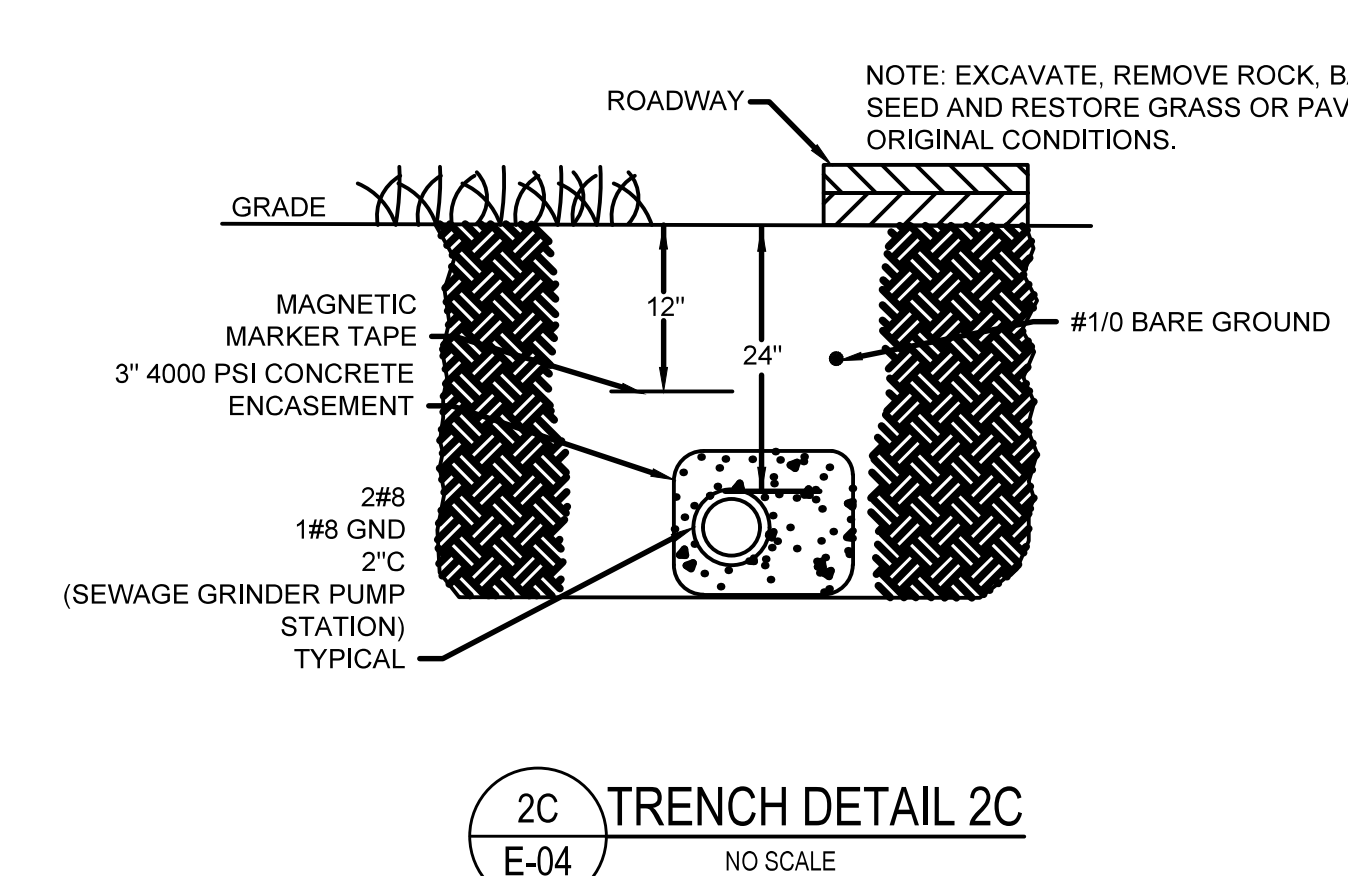
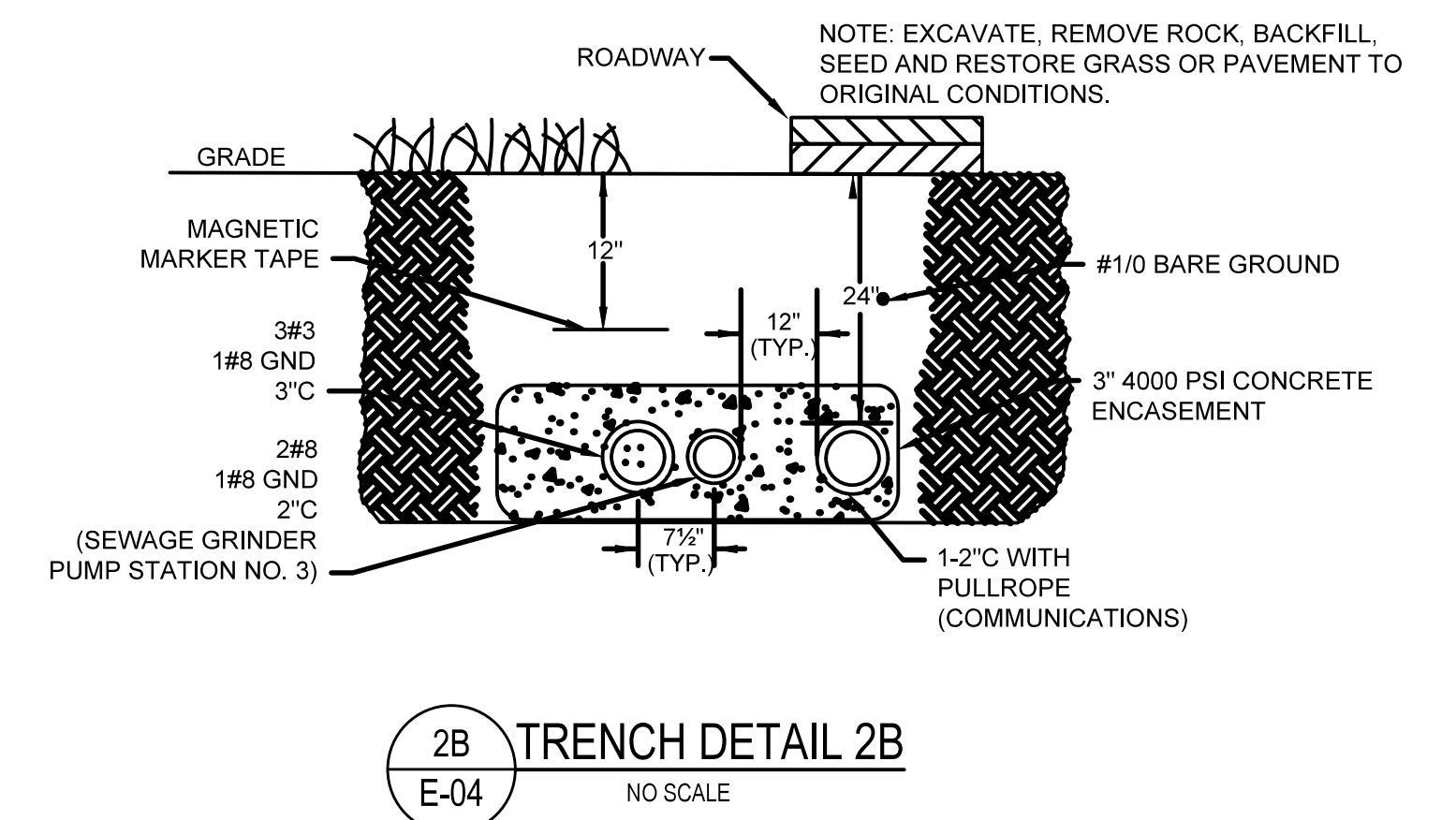
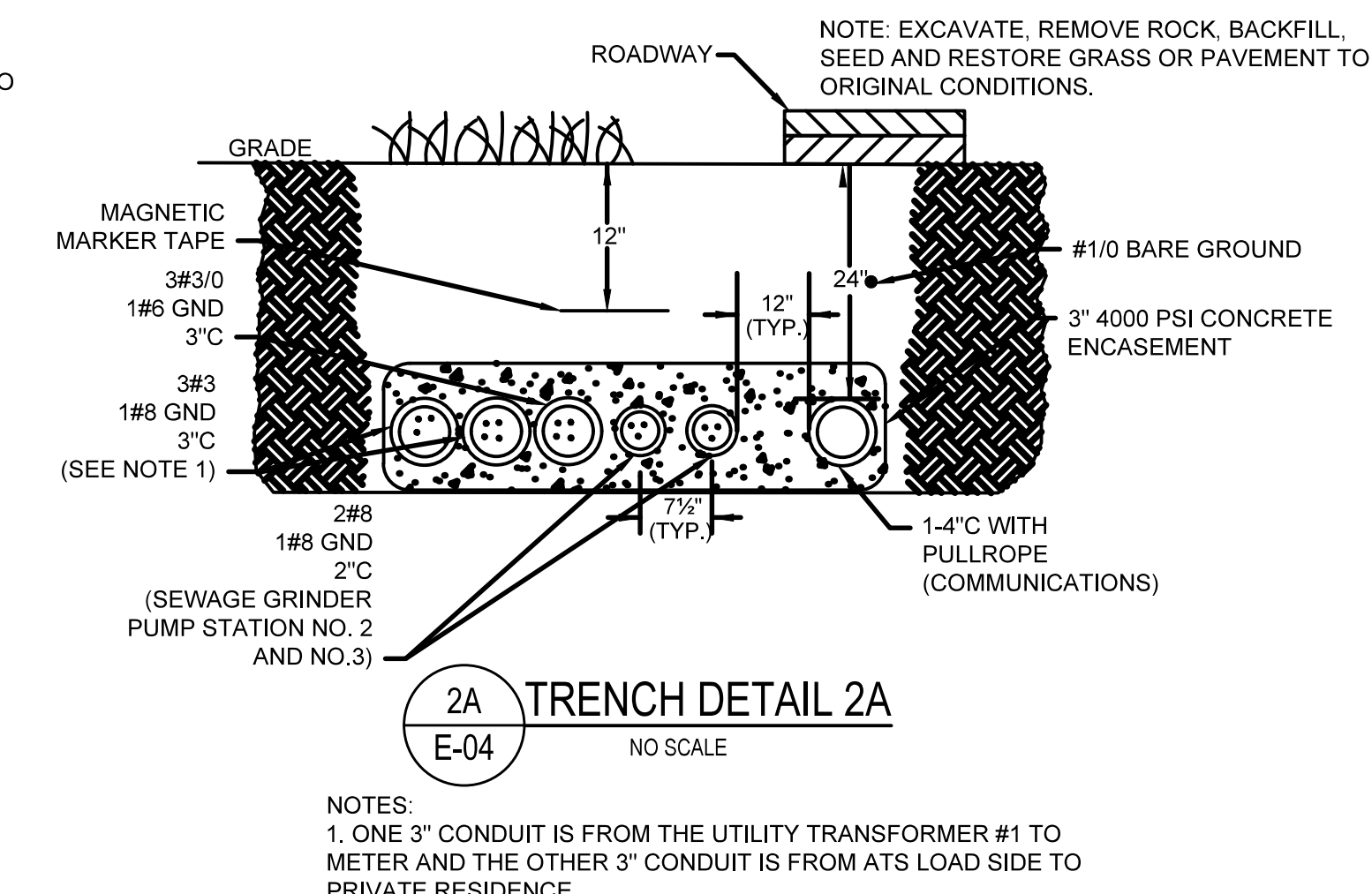
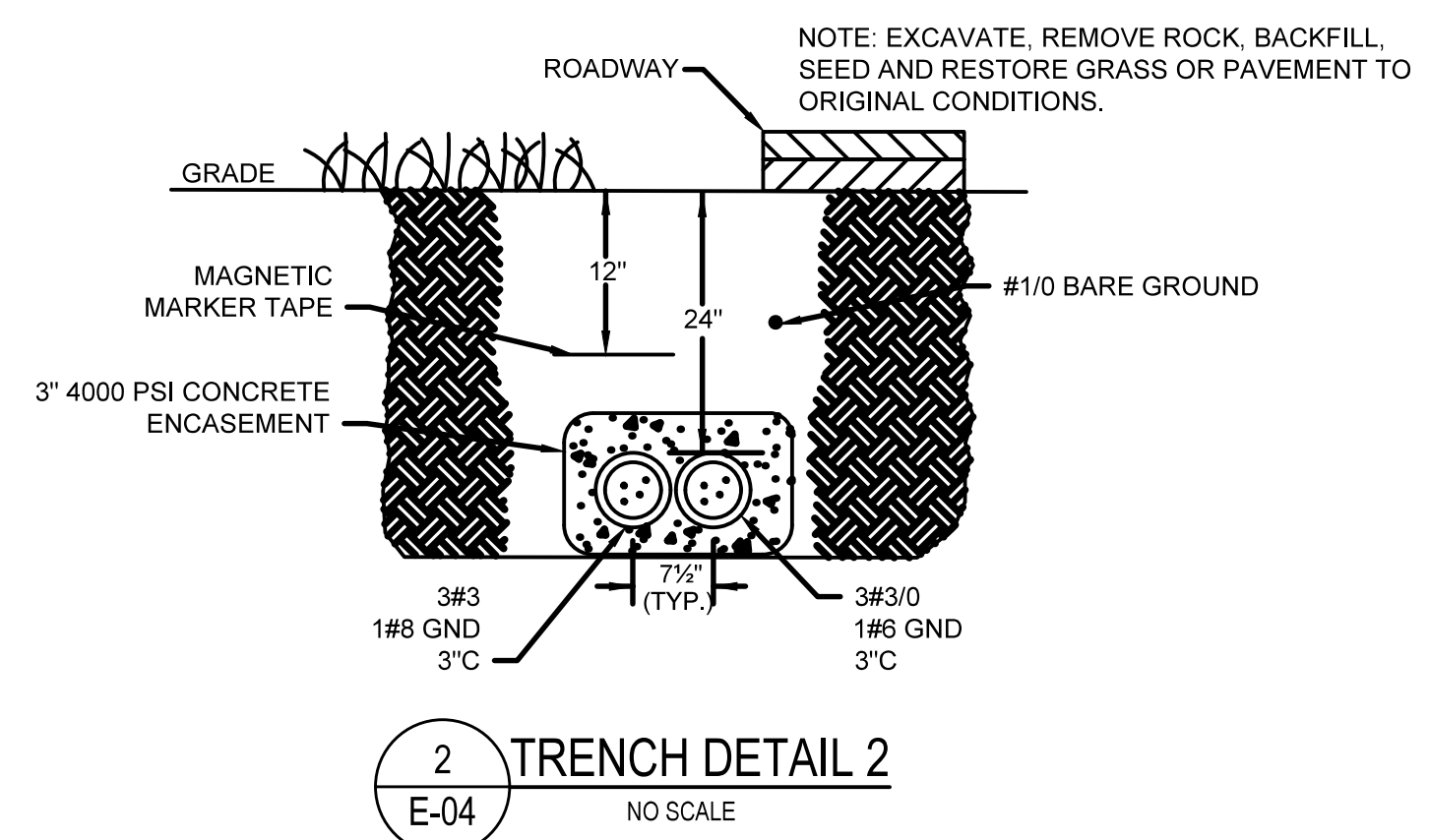
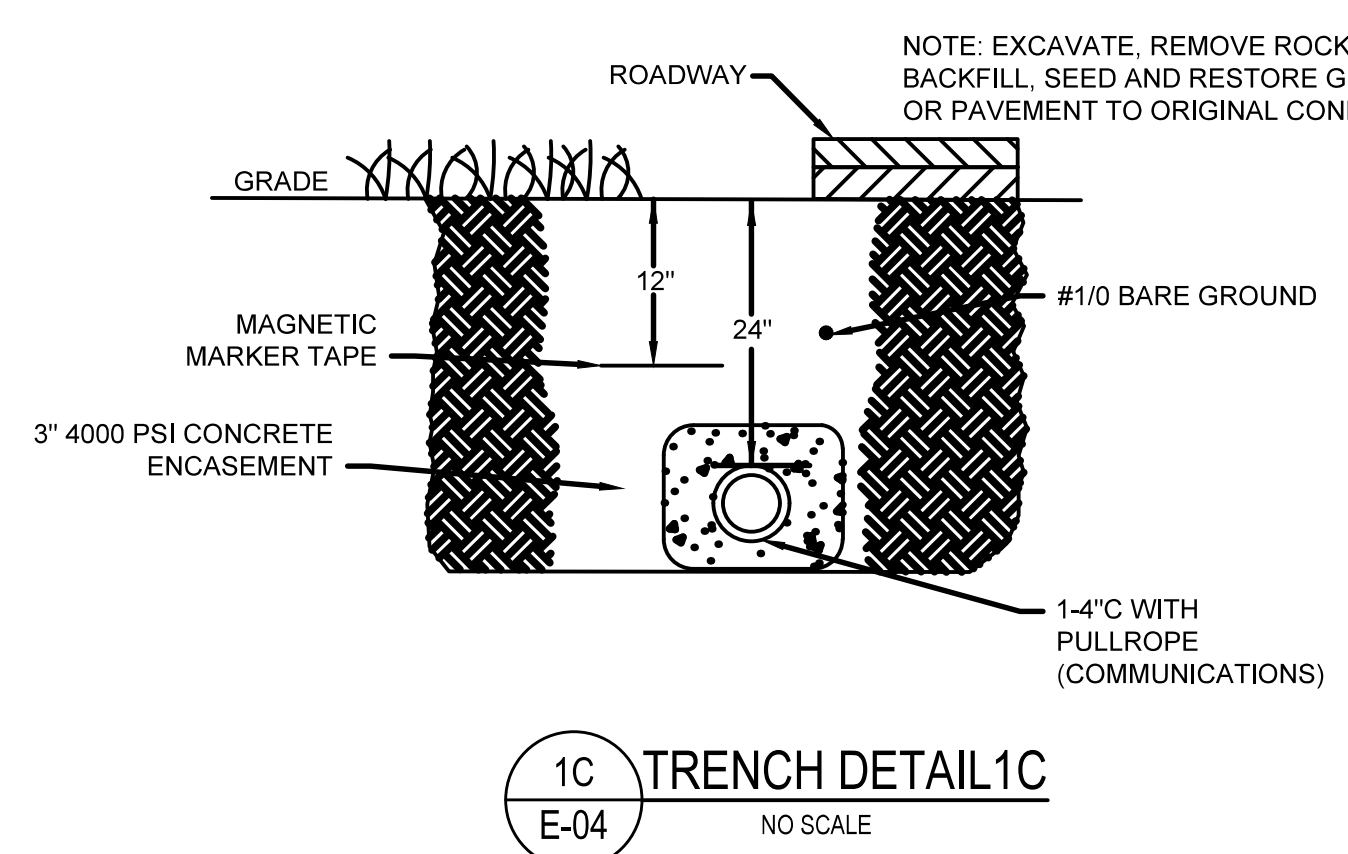
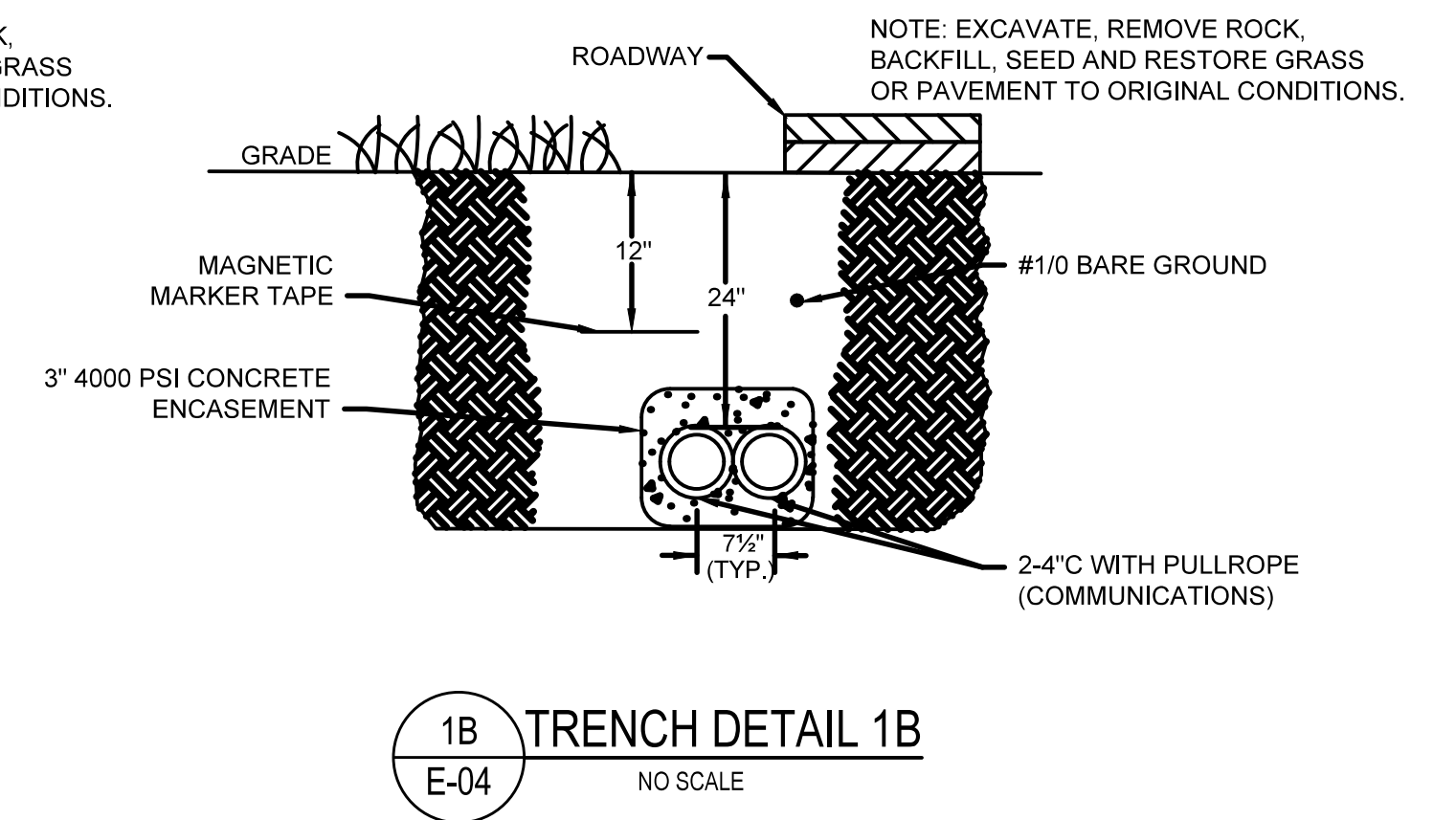
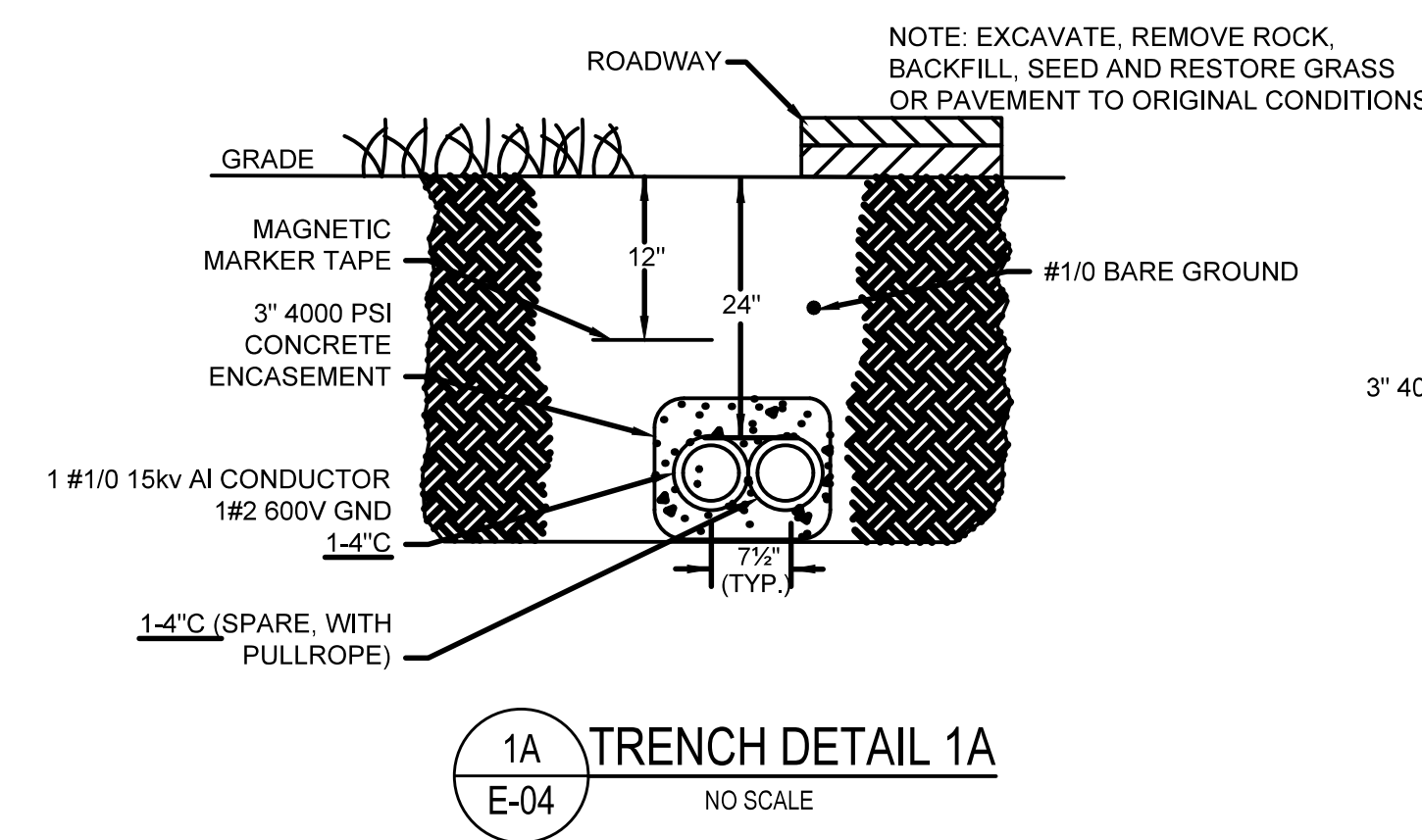
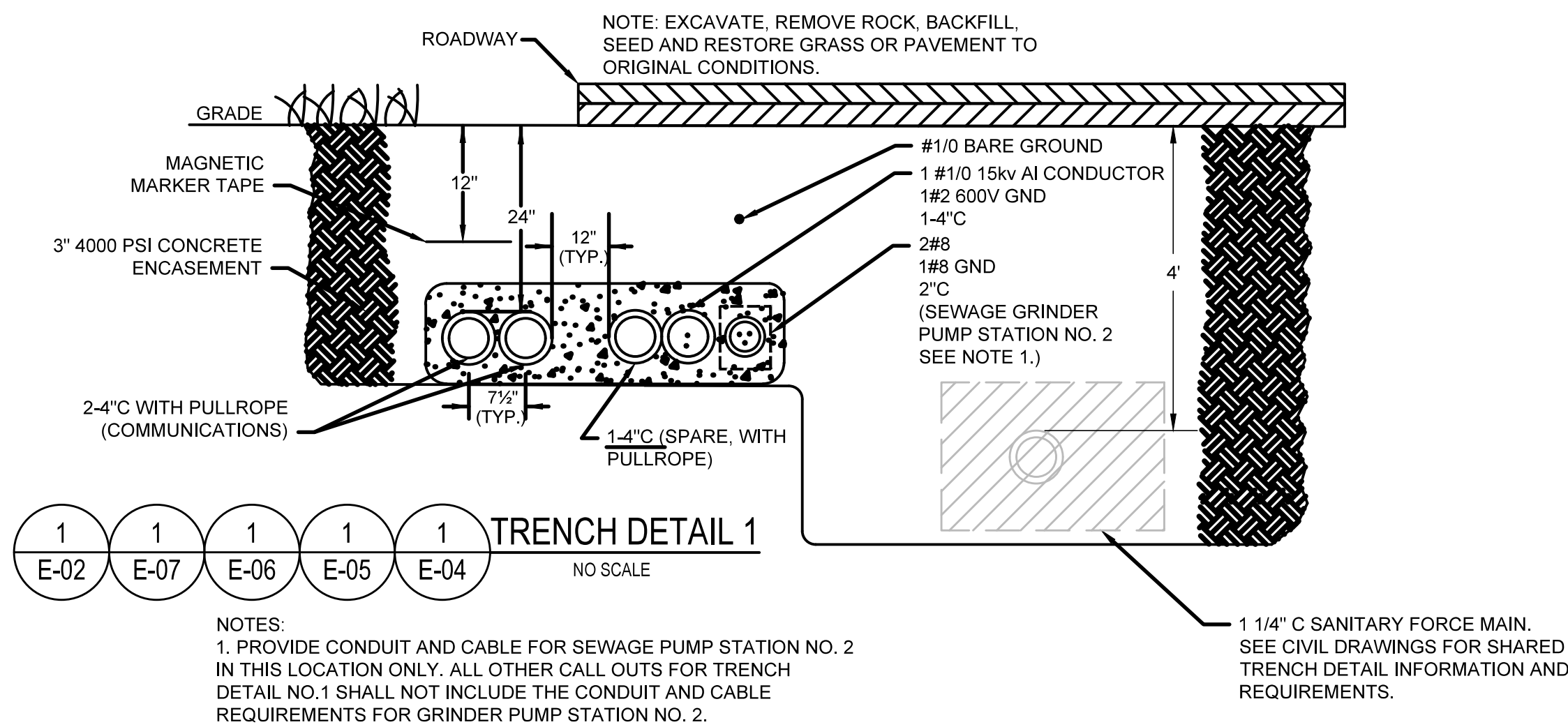
SHEET NUMBER E-08

SHEET NO. 29 OF 35

SCALE: AS NOTED
DATE: APRIL 2021

DPW FILE NO. 24-86-G-32

REV. NO. 0



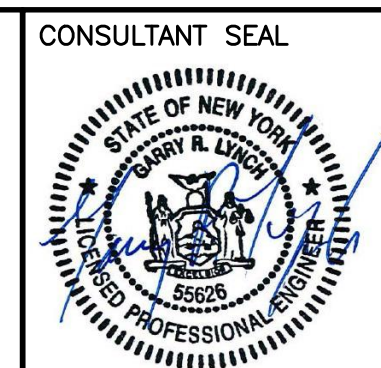
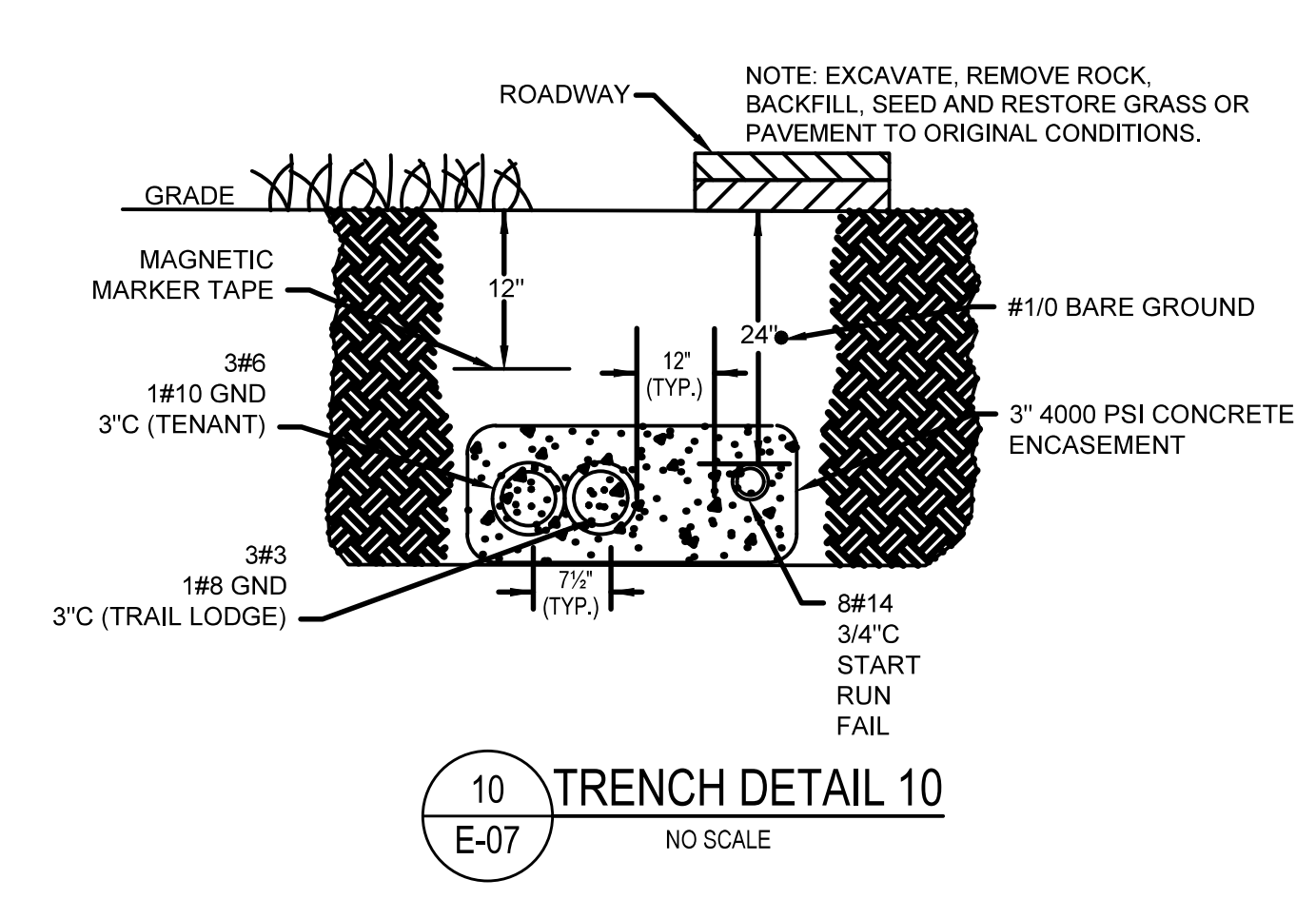
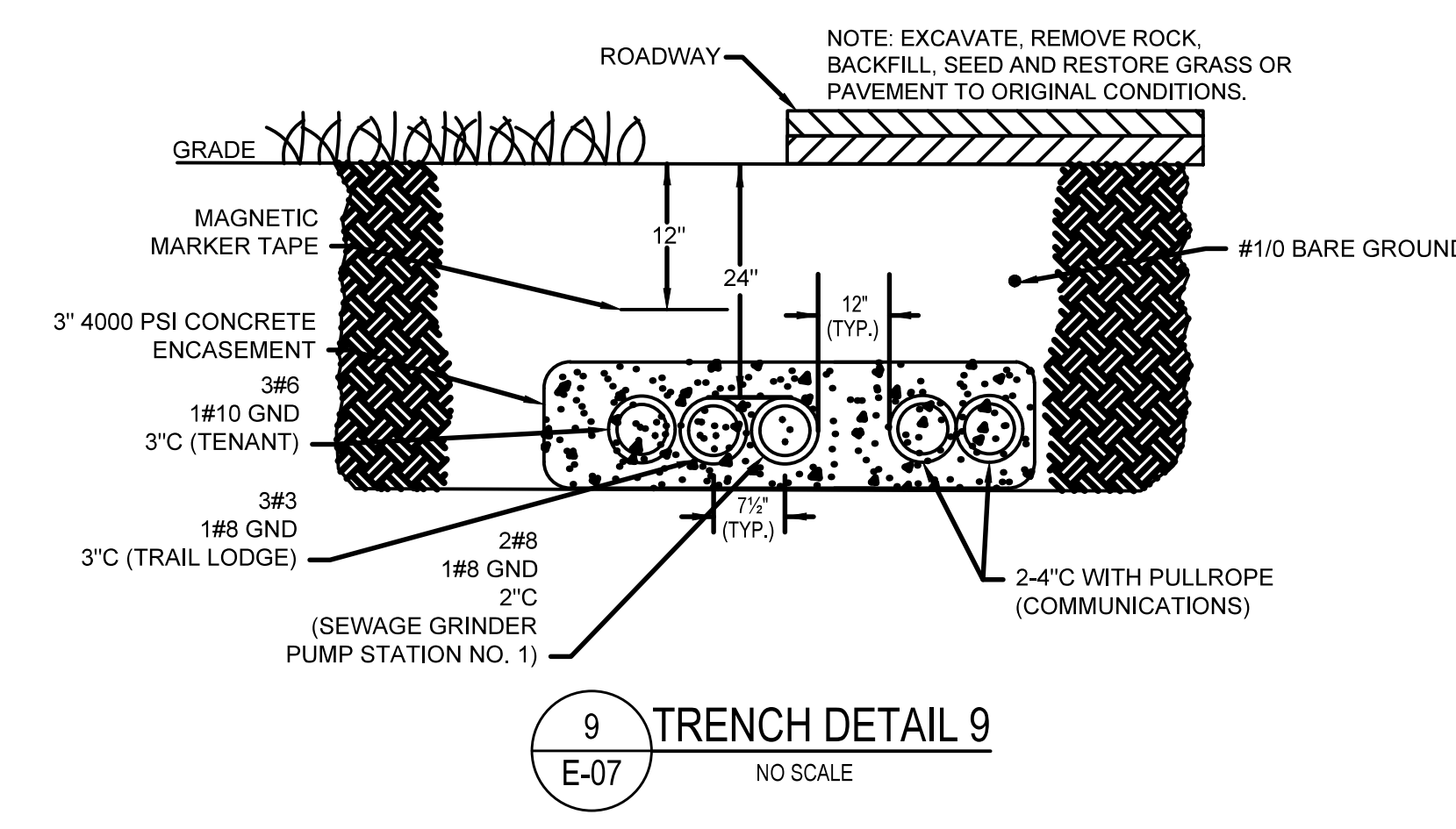
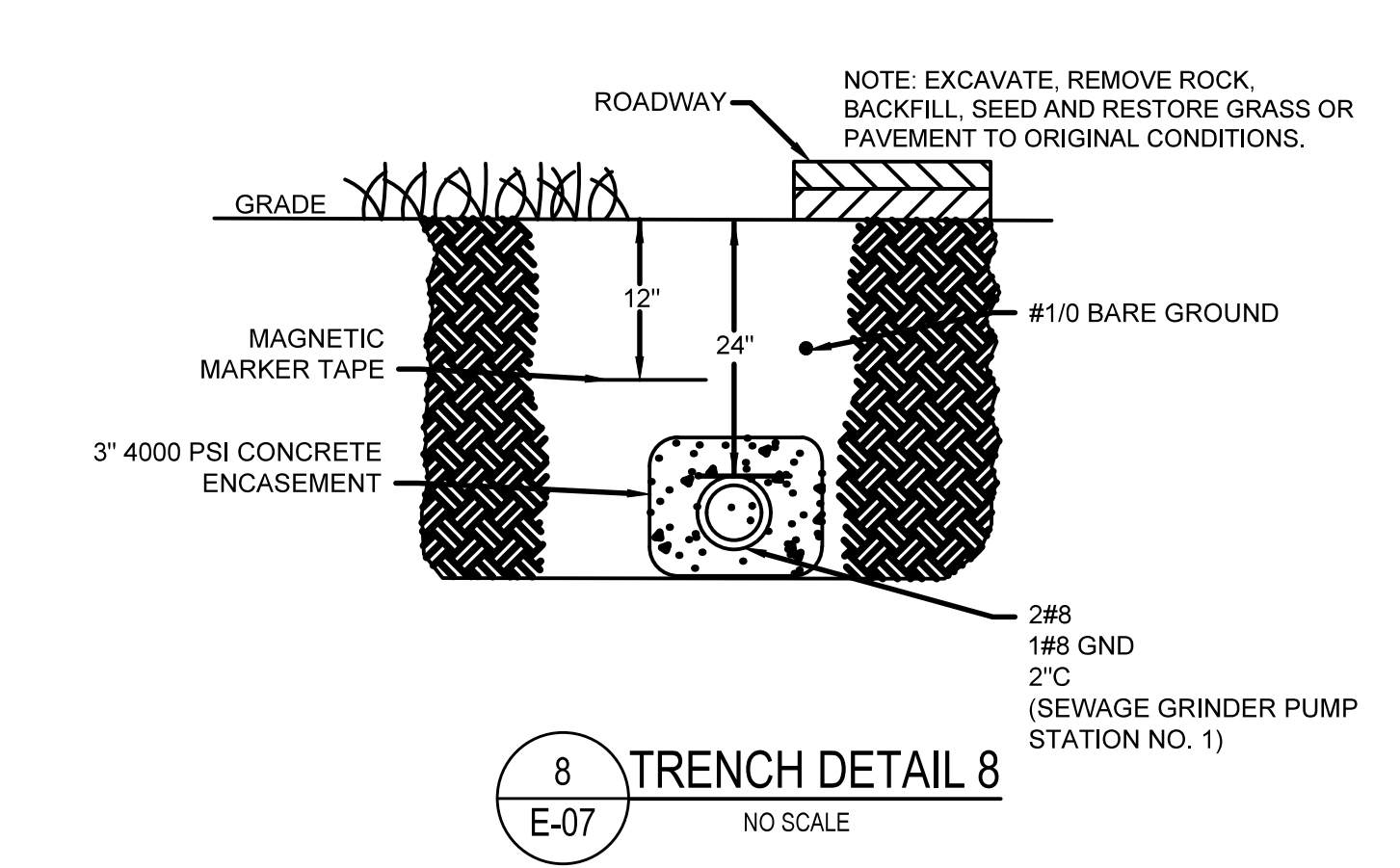
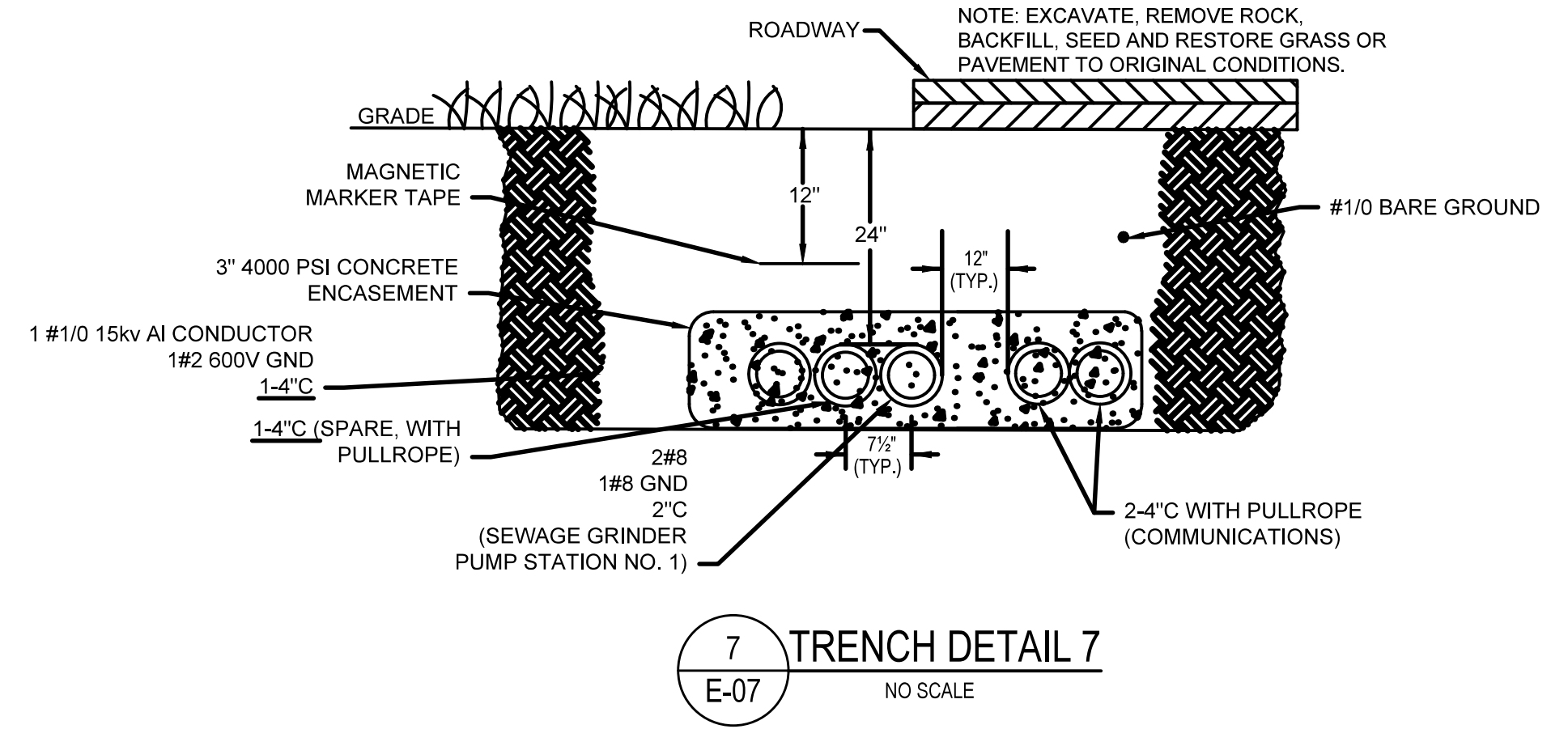
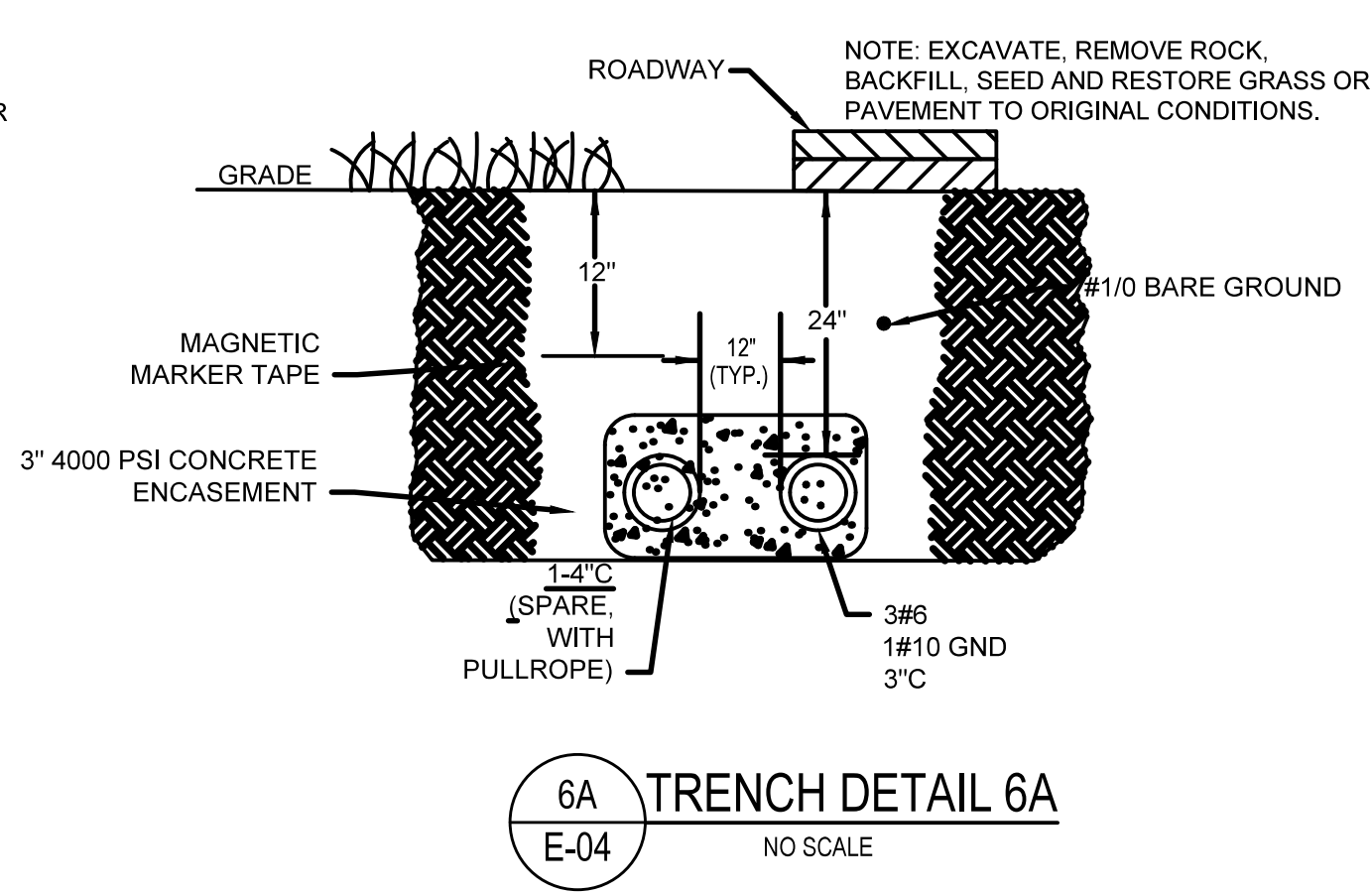
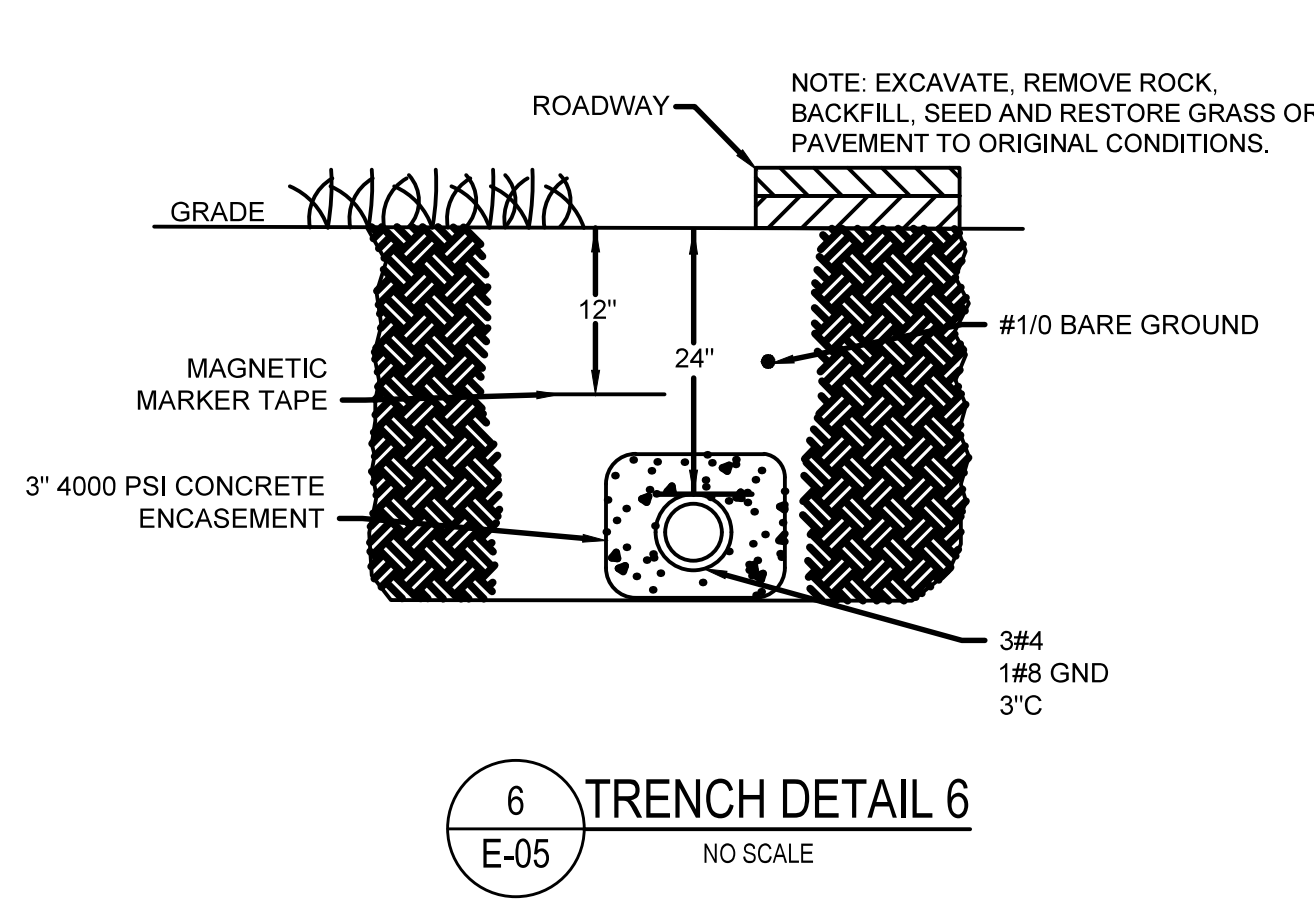
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IN CHARGE OF RJD
CHECKED BY GEO
MADE BY AKW

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	DATE _____	DATE _____

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 17-519	SHEET NUMBER E-09
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY ELECTRICAL TRENCH DETAILS I		SHEET NO. 30 OF 35	SCALE: AS NOTED DATE: APRIL 2021
DPW FILE NO. 24-86-G-33		REV. NO. 0	



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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION	
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CONTRACTOR	
NAME _____	PROJECT COORDINATOR
SIGNATURE _____	SIGNATURE _____
TITLE _____ DATE _____	TITLE _____ DATE _____

WESTCHESTER COUNTY, NEW YORK	
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	
DIVISION OF ENGINEERING	
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS	
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY	
ELECTRICAL	
TRENCH DETAILS II	
CONTRACT NUMBER 17-519	SHEET NUMBER E-10
SHEET NO. 31 OF 35	
SCALE: AS NOTED	
DATE: APRIL 2021	
DPW FILE NO. 24-86-G-34	REV. NO. 0

PANELBOARD "MG"									
MAIN BUS RATINGS: 200, 120/240 VOLTS, 1 PHASE, 3 WIRE					FED FROM: ATS/TRANSFORMER #1				
MINIMUM SHORTCIRCUIT INTERRUPTION RATING: 22,000 AIC					INCOMING FEED: 1-3/0 PER PHASE				
MAIN BREAKER TRIP:200A					ENCLOSURE: NEMA 1				
ESTIMATED CONNECTED LOAD: 30 KW									
DESCRIPTION	LOAD KW	CB TRIP/POLE	CIR. NO		CIR. NO	CB TRIP/POLE	LOAD KW	DESCRIPTION	
				A B					
SPARE	0.0	20A/1P	1		2	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	3		4	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	5		6	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	7		8	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	9		10	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	11		12	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	13		14	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	15		16	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	17		18	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	19		20	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	21		22	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	23		24	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	25		26	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	27		28	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	29		30	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	31		32	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	33		34	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	35		36	20A/1P	0.0	SPARE	
BLOCK HEATER	1	20A/1P	37		38	20A/1P	1	BATTERY CHARGER	
GRINDER PS #2	3	20A/2P	39		40	20A/2P	3	GRINDER PS #3	
			41		42				



- NOTES:
1. PROVIDE SUB-FEED LUGS TO BACKFEED EXISTING PANELBOARD IN MAINTENANCE GARAGE.
 2. PROVIDE 2#12, 1#12 GND 1"C FROM PANELBOARD TO GRINDER PS #2.
 3. PROVIDE 2#12, 1#12 GND 2"C FROM PANELBOARD TO GRINDER PS #3.
 4. PROVIDE 2#12, 1#12 GND 3/4"C FROM PANELBOARD TO GENERATOR BLOCK HEATER.
 5. PROVIDE 2#12, 1#12 GND 3/4"C FROM PANELBOARD TO GENERATOR BATTERY CHARGER.

PANELBOARD "BH"									
MAIN BUS RATINGS: 100, 120/240 VOLTS, 1 PHASE, 3 WIRE					FED FROM: TRANSFORMER #3				
MINIMUM SHORTCIRCUIT INTERRUPTION RATING: 22,000 AIC					INCOMING FEED: 1-6 PER PHASE				
MAIN BREAKER TRIP:60A					ENCLOSURE: NEMA 4				
ESTIMATED CONNECTED LOAD: 10 KW									
DESCRIPTION	LOAD KW	CB TRIP/POLE	CIR. NO		CIR. NO	CB TRIP/POLE	LOAD KW	DESCRIPTION	
				A B					
SPARE	0.0	20A/1P	1		2	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	3		4	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	5		6	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	7		8	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	9		10	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	11		12	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	13		14	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	15		16	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	17		18	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	19		20	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	21		22	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	23		24	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	25		26	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	27		28	20A/1P	3	GRINDER PS #1	
SPARE	0.0	20A/1P	29		30				

PANELBOARD "RR-1"									
MAIN BUS RATINGS: 100, 120/240 VOLTS, 1 PHASE, 3 WIRE					FED FROM: TRANSFORMER #2				
MINIMUM SHORTCIRCUIT INTERRUPTION RATING: 22,000 AIC					INCOMING FEED: 1-6 PER PHASE				
MAIN BREAKER TRIP:60A					ENCLOSURE: NEMA 1				
ESTIMATED CONNECTED LOAD: 10 KW									
DESCRIPTION	LOAD KW	CB TRIP/POLE	CIR. NO		CIR. NO	CB TRIP/POLE	LOAD KW	DESCRIPTION	
				A B					
SPARE	0.0	20A/1P	1		2	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	3		4	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	5		6	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	7		8	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	9		10	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	11		12	20A/1P	0.0	SPARE	

PANELBOARD "TB"									
MAIN BUS RATINGS: 100, 120/240 VOLTS, 1 PHASE, 3 WIRE					FED FROM: TRANSFORMER #4				
MINIMUM SHORTCIRCUIT INTERRUPTION RATING: 22,000 AIC					INCOMING FEED: 1-6 PER PHASE				
MAIN BREAKER TRIP:60A					ENCLOSURE: NEMA 1				
ESTIMATED CONNECTED LOAD: 10 KW									
DESCRIPTION	LOAD KW	CB TRIP/POLE	CIR. NO		CIR. NO	CB TRIP/POLE	LOAD KW	DESCRIPTION	
				A B					
SPARE	0.0	20A/1P	1		2	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	3		4	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	5		6	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	7		8	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	9		10	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	11		12	20A/1P	0.0	SPARE	

PANELBOARD "OP"									
MAIN BUS RATINGS: 100, 120/240 VOLTS, 1 PHASE, 3 WIRE					FED FROM: TRANSFORMER #2				
MINIMUM SHORTCIRCUIT INTERRUPTION RATING: 22,000 AIC					INCOMING FEED: 1-4 PER PHASE				
MAIN BREAKER TRIP:60A					ENCLOSURE: NEMA 4				
ESTIMATED CONNECTED LOAD: 10 KW									
DESCRIPTION	LOAD KW	CB TRIP/POLE	CIR. NO		CIR. NO	CB TRIP/POLE	LOAD KW	DESCRIPTION	
				A B					
SPARE	0.0	20A/1P	1		2	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	3		4	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	5		6	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	7		8	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	9		10	20A/1P	0.0	SPARE	
SPARE	0.0	20A/1P	11		12	20A/1P	0.0	SPARE	

 LYNSTAAR ENGINEERING, P.C. CIVIL • PLUMBING • ELECTRICAL • MECHANICAL 12 Water Street Suite 202, White Plains, New York 10601 914-741-1290 (tel) 914-741-1253 (fax) www.lynstaar.com		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.						RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 17-519	SHEET NUMBER E-11	
		IN CHARGE OF RJD						CONTRACTOR		PROJECT COORDINATOR		SHEET NO. 32 OF 35		
		CHECKED BY GEO						NAME _____		NAME _____		SCALE: AS NOTED		
		MADE BY AKW						SIGNATURE _____		SIGNATURE _____		DATE: APRIL 2021		
								TITLE _____ DATE _____		TITLE _____ DATE _____		DPW FILE NO. 24-86-G-35		REV. NO. 0
		REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION					BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY ELECTRICAL PANELBOARD SCHEDULES			



SCALE: 3/4" = 1'-0"



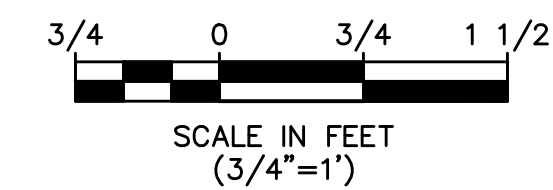
SCALE: 3/4" = 1'-0"



SCALE: 3/4" = 1'-0"



SCALE: 3/4" = 1'-0"




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IN CHARGE OF RJD
CHECKED BY GEO
MADE BY AKW

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

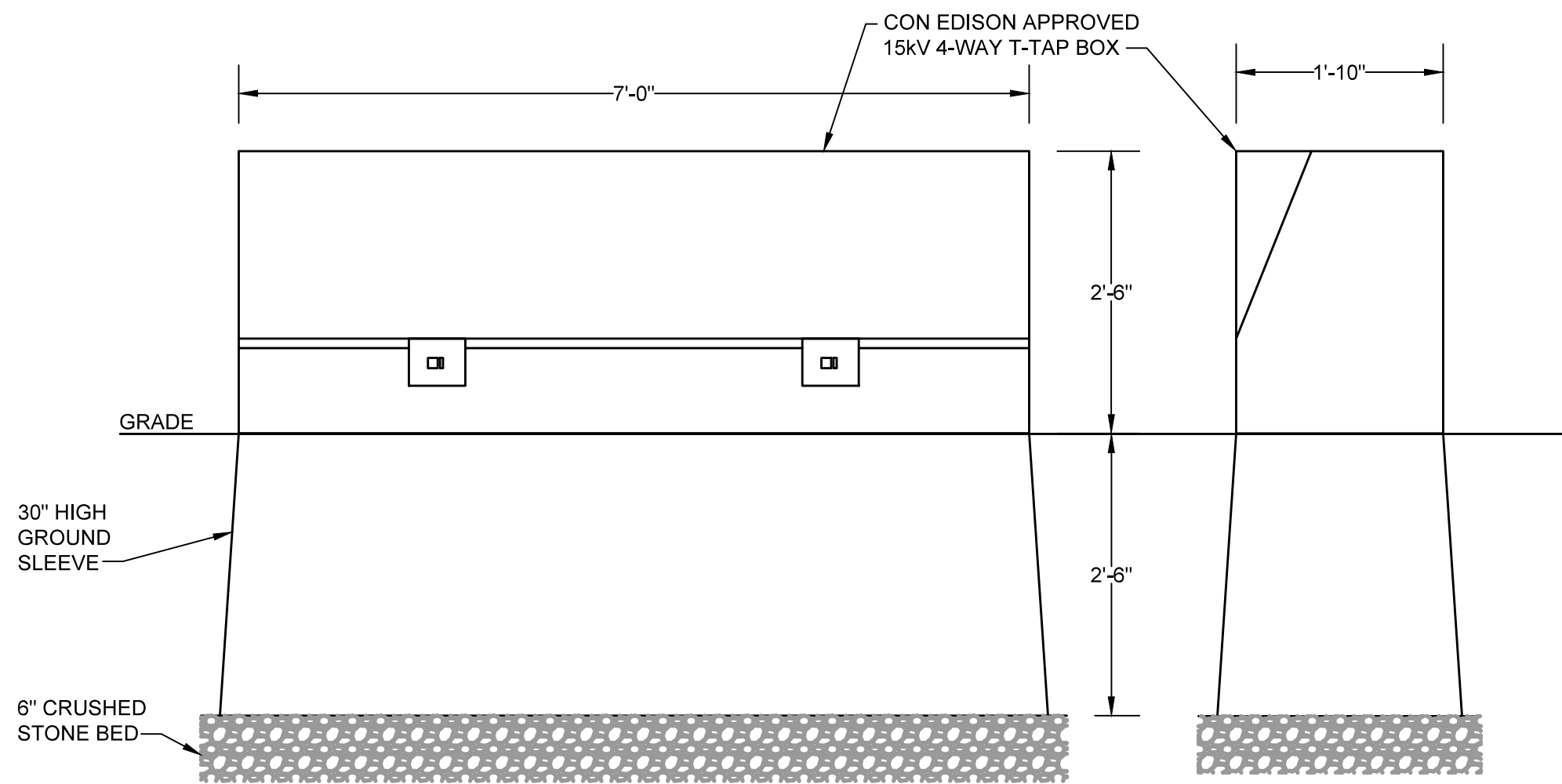
☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

NAME _____
SIGNATURE _____
TITLE _____ DATE _____

BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS
TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY
ELECTRICAL
30 KW AND 50 KW GENERATOR DETAILS

DPW FILE NO.
24-86-G-36



15kV T-TAP BOX DETAILS

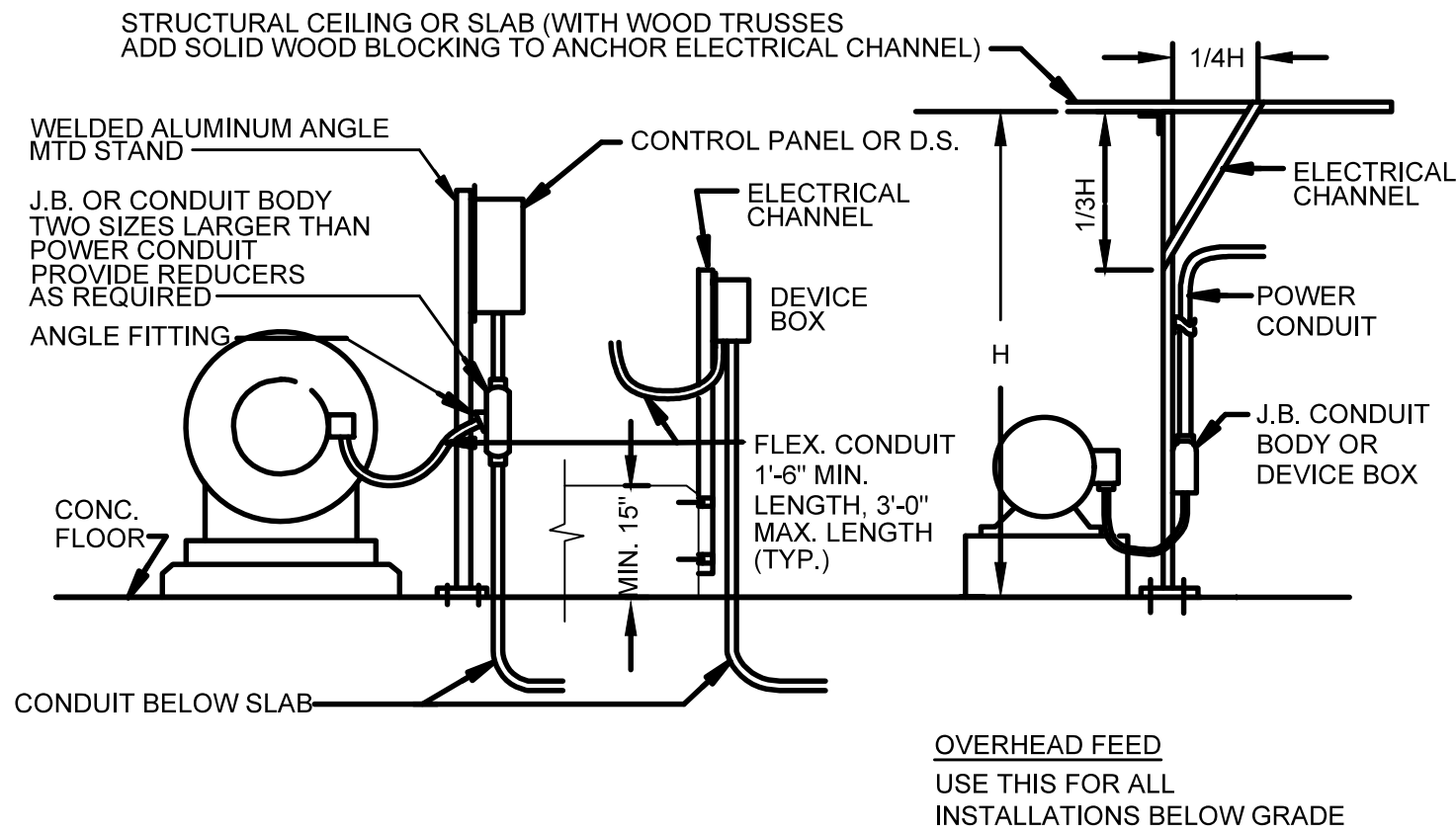
SCALE: 3/4" = 1'-0"

INSTALLATION NOTES:

1. PROVIDE #1/0 BARE Cu GROUND LOOP 24" BELOW GRADE WITH TWO (2) 5/8"x10'-0" Cu CLAD STEEL GROUND RODS, ONE (1) AT EACH CORNER TYPICAL.
2. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONCRETE ENCASED, ALL ELBOWS UP TO T-TAP BOX SHALL BE RIGID STEEL.

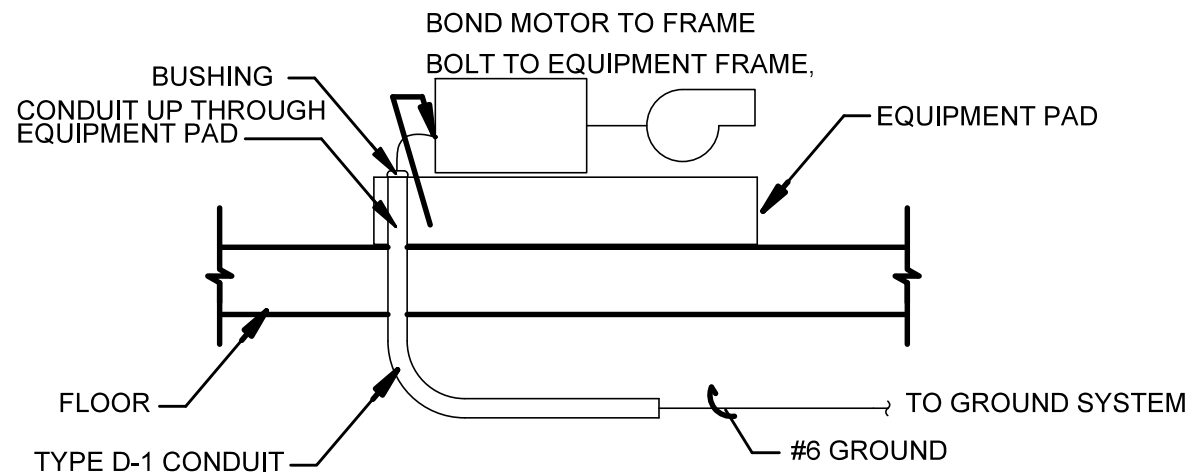
15KV T-TAP BOX SPECIFICATIONS

1. MANUFACTURER: COOPER POWER SYSTEMS SECTER CABINET.
2. PRODUCT DESCRIPTION:
 - A. 15KV, 200A, 4-WAY, T-TAP BOX AS APPROVED FOR USE BY THE UTILITY COMPANY.
 - B. PROVIDE 200A, 15KV CLASS 4-WAY LOADBREAK JUNCTIONS. COOPER POWER SYSTEMS ELECTRICAL APPARATUS 500-15.
 - C. PROVIDE COMPATIBLE 200A, 15KV CLASS LOADBREAK ELBOWS. COOPER POWER SYSTEMS, ELECTRICAL APPARATUS 500-10, SIZED FOR #1/0 CONDUCTORS.
 - D. PROVIDE 15KV RATED INSULATED CAPS FOR ALL BUSHINGS NOT IN USE.
3. OPTIONS: PROVIDE OPTIONAL 30" GROUND SLEEVE.
4. LOCAL SALES REPRESENTATIVE: HOWARD SCHECTER, TECHNICAL GROUP SERVICES, INC., 271 RT. 46W, SUITE H207, FAIRFIELD, NJ 07004. PHONE: 862-210-8127, FAX: 862-210-8129, EMAIL: HOWARD@TGS-INC.COM.
5. CONFIRM TO ALL CON EDISON REQUIREMENTS.



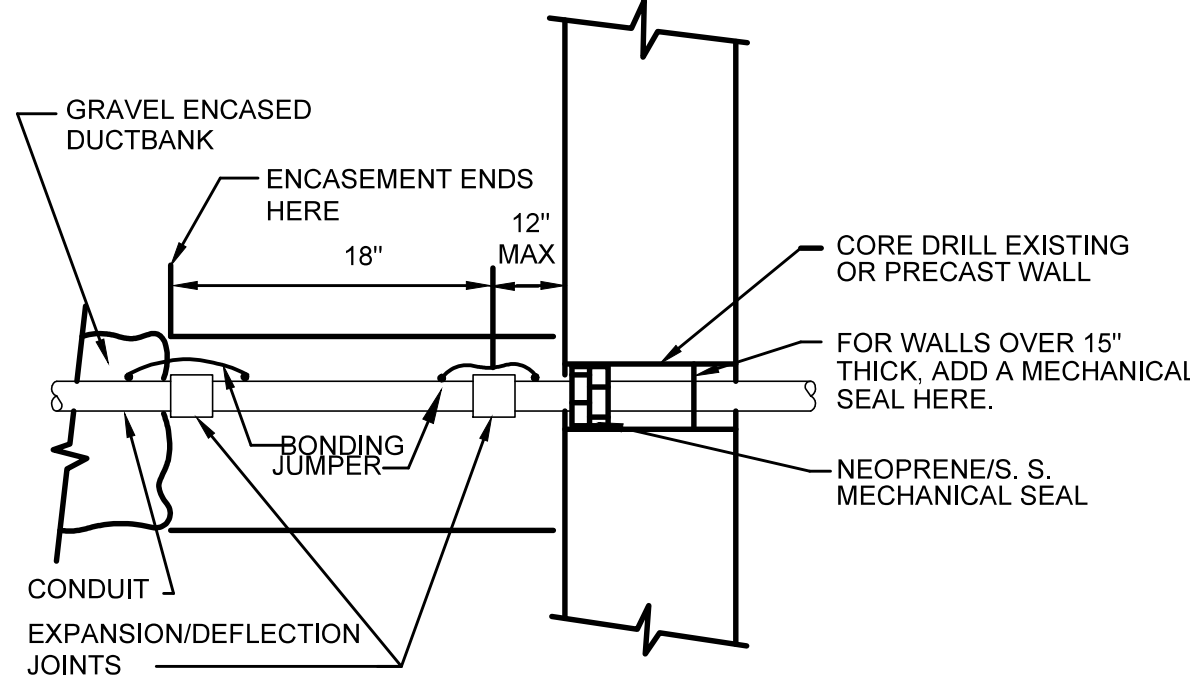
TYPICAL ELECTRICAL FEED

SCALE: NO SCALE



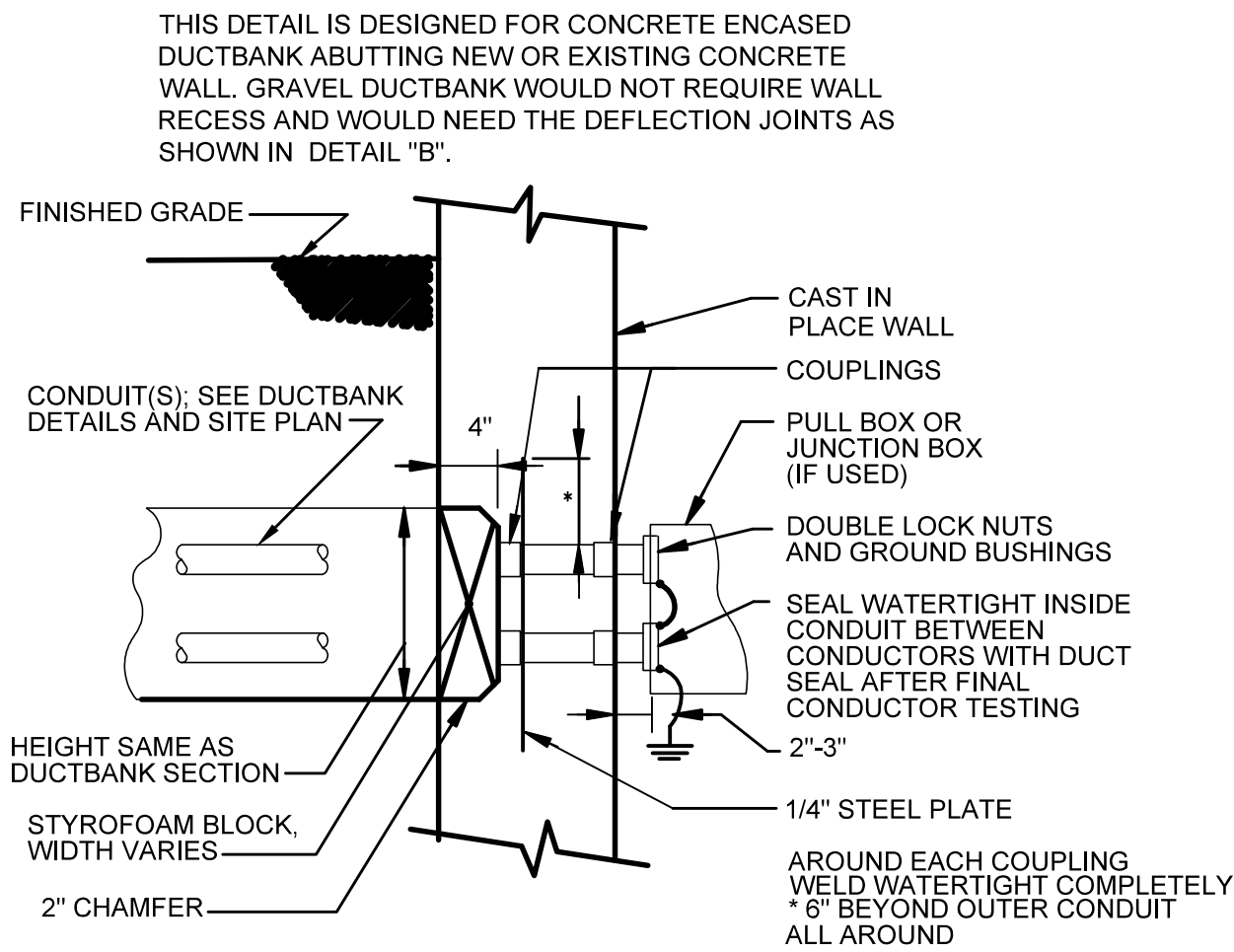
EQUIPMENT GROUNDING DETAIL

SCALE: NO SCALE



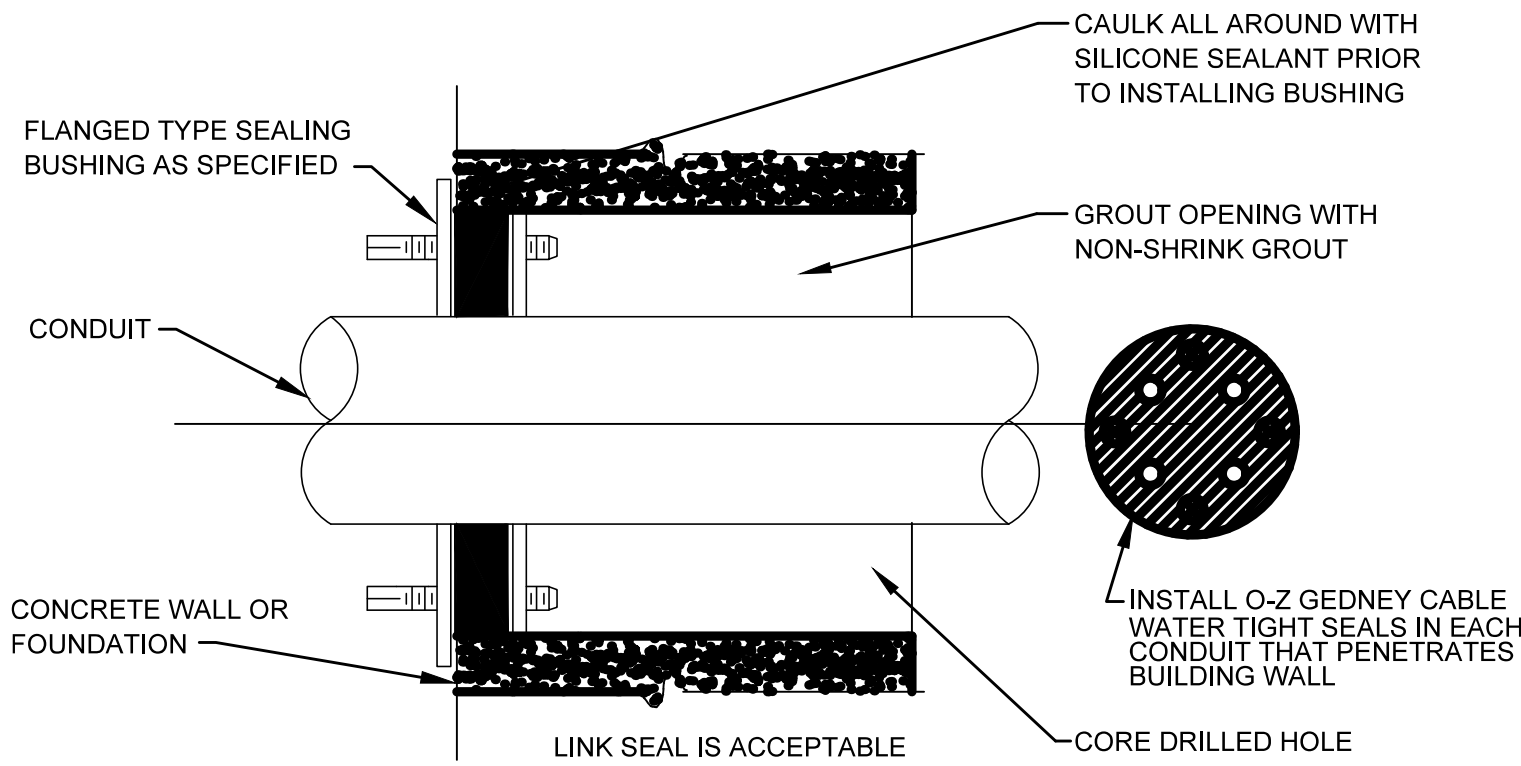
CONDUIT CONNECTION

SCALE: NO SCALE



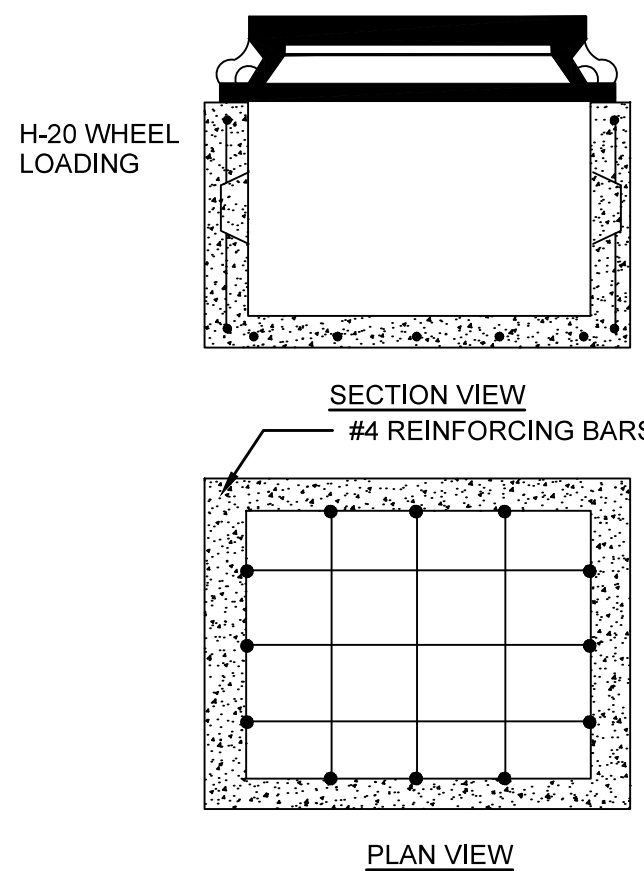
CONDUIT CONNECTION - DETAIL "A"

SCALE: NO SCALE



TYPICAL SLEEVE DETAIL FOR EXISTING WALL PENETRATION

SCALE: NO SCALE



CONCRETE AND STEEL HANDHOLE DETAIL

SCALE: NO SCALE

NOTES:

1. HANDHOLE COVERS SHALL BE NOTED EITHER AS "ELECTRIC" OR "COMMUNICATION" (REFER TO SITE PLAN).
2. HANDHOLES SHALL BE RATED FOR H-20 WHEEL LOADING.
3. HANDHOLE SHALL HAVE A CAST IRON COVER.
4. CONCRETE AND STEEL HANDHOLE SHALL BE PROVIDED IN DRIVEWAYS AND ROADWAYS.
5. HANDHOLE SHALL BE 18"x24"x24" MINIMUM, OR AS SHOWN ON DRAWINGS.



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IN CHARGE OF RJD
CHECKED BY GEO
MADE BY AKW

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	
BLUE MOUNTAIN RESERVATION SITE WORK IMPROVEMENTS TOWN OF CORTLANDT, CITY OF PEEKSKILL, NY	
ELECTRICAL DETAILS II	

CONTRACT NUMBER 17-519	SHEET NUMBER E-14
SHEET NO. 35 OF 35	
SCALE: AS NOTED DATE: APRIL 2021	
DPW FILE NO. 24-86-G-38	REV. NO. 0