

Hoffman Falls Wind Project

Madison County, New York

Electrical Construction Plans



PREPARED FOR:

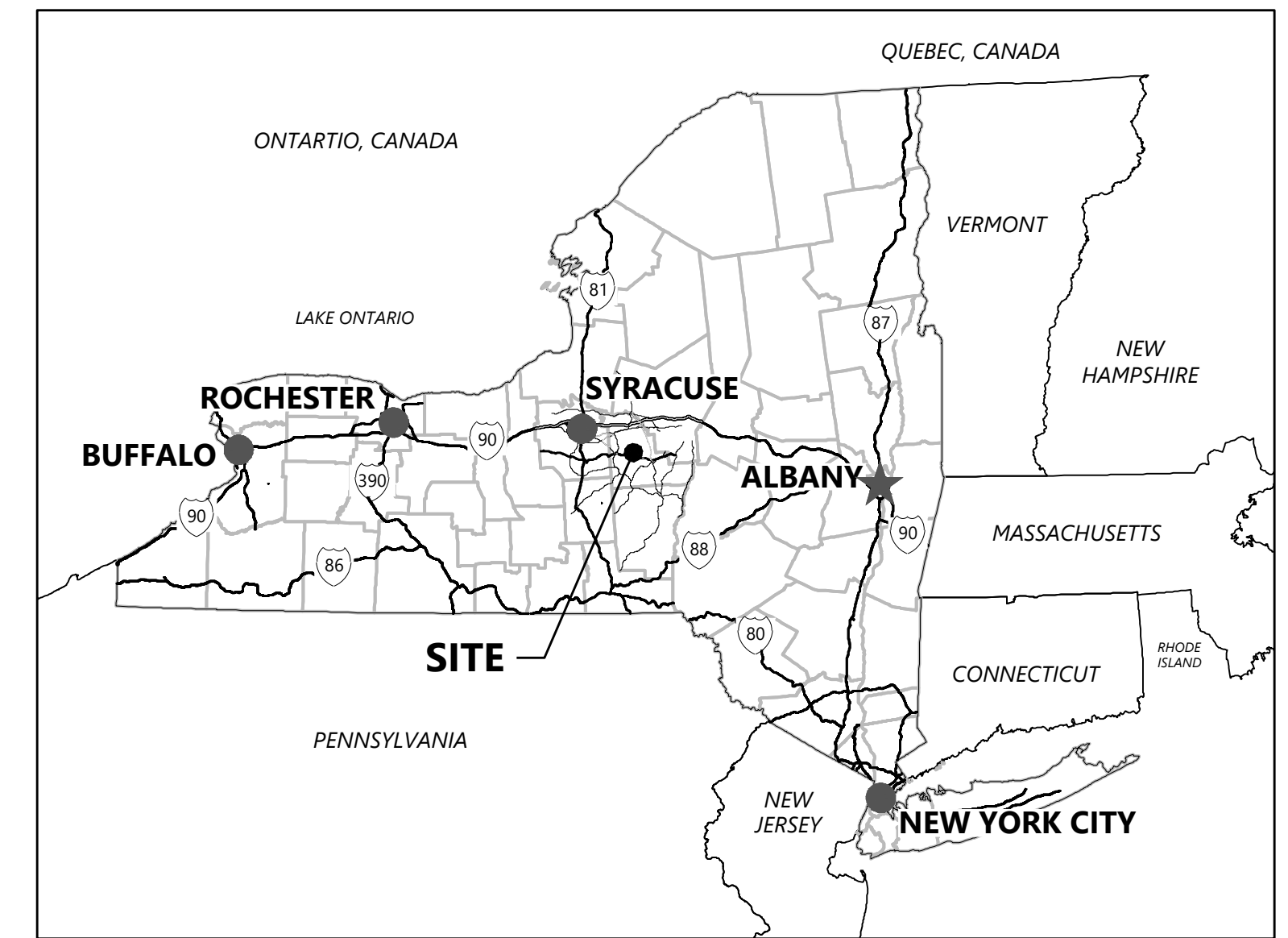
Hoffman Falls Wind LLC

90 State Street, Suite 700
Albany, NY 12207

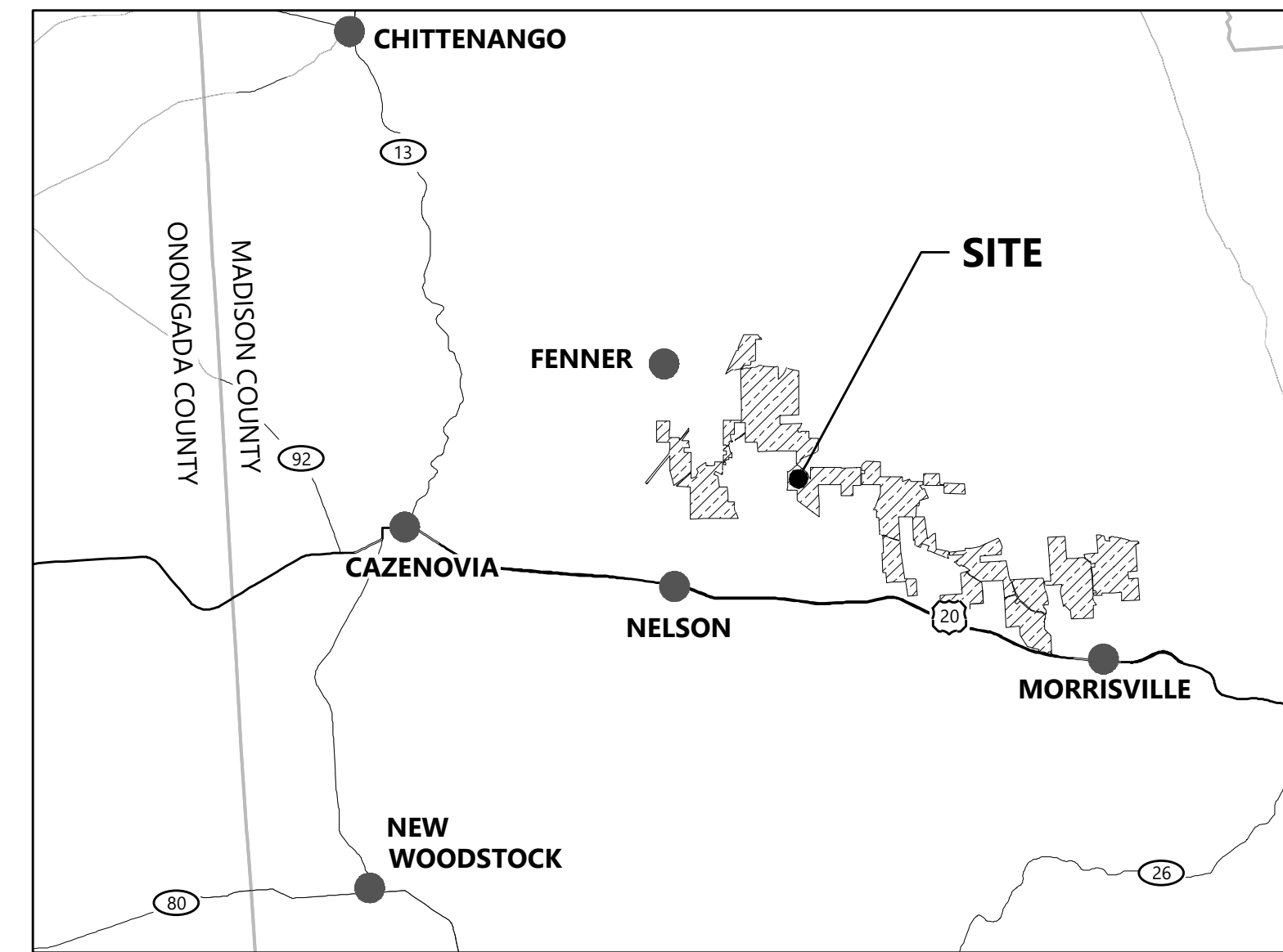
REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	09/08/2023	30% ELECTRICAL DESIGN	JON	GVH	DNS
B	01/26/2024	60% ELECTRICAL DESIGN	JON	GVH	DNS

REGIONAL MAP



VICINITY MAP



DATA SET INFORMATION			
Coordinate System	New York Central NSRS11 (2011) SPCS US FEET		
BASE FILE	FILE NAME / NOTES	PROVIDER	DATE
AERIAL IMAGE	2023-06-13 Aerial Box	WESTWOOD	6/13/2023
LAND CONTROL	Facility Site Parcels	LIBERTY	11/29/2023
BOUNDARY SURVEY	0042618.01V-SURV	WESTWOOD	12/4/2023
TOPOGRAPHY	0042618V-DTM - 10m Public Data Placeholder	WESTWOOD	5/16/2023
TURBINE ARRAY	2023-08-23 Wind Turbine	LIBERTY	8/15/2023
UNDERGROUND COLLECTION	0042618E-WIRE	WESTWOOD	12/13/2023
GEN-TIE	*	*	*
STREAMS/WETLANDS	Delineated Wetland and Stream	EDR	1/22/2024
CULTURAL RESOURCES	2024-01-19 Hoffman Falls Ecological Data	EDR	1/19/2024
FEMA INFORMATION	FEMA Mapped Flood Hazard Area	EDR	12/11/2023
GEOTECHNICAL REPORT	Preliminary Geotechnical Investigation Report	Westwood	10/3/2023

CONTACT INFORMATION				
NAME	COMPANY NAME	PROJECT ROLE	EMAIL	PHONE
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DREW SZABO	WESTWOOD SURVEYING & ENGINEERING, LLC	ELECTRICAL ENGINEER OF RECORD	DREW.SZABO@WESTWOODPS.COM	(608) 662-5345
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Hoffman Falls Wind Project
Madison County, New York

Cover Sheet

ISSUE FOR PERMIT

DATE: 01/26/2024
 SHEET: E0000
 REV: B



1-26-2024

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Sheet List Table	
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E0020	Symbology & Abbreviations
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E1301	MV Circuit Single Line Diagram
E6000	Overall Communications Site Plan
E6200	Fiber Optic Single Line Diagram
E6400	Met Tower Wiring Diagram
E6401	Fiber Splice Box
E7000	Sectionalizer Cabinet
E7001	Medium Voltage Splice
E7002	Foundation Conduit Details
E7003	Foundation Grounding Details
E7600	Trench Details
E7601	Bore Details
E7700	Crossing Schedule

**Hoffman Falls
Wind Project**

Madison County, New York

Sheet Index

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DATE: 01/26/2024 REV:
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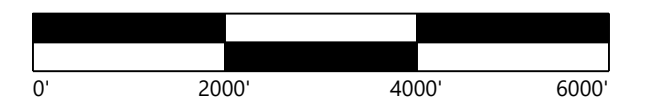
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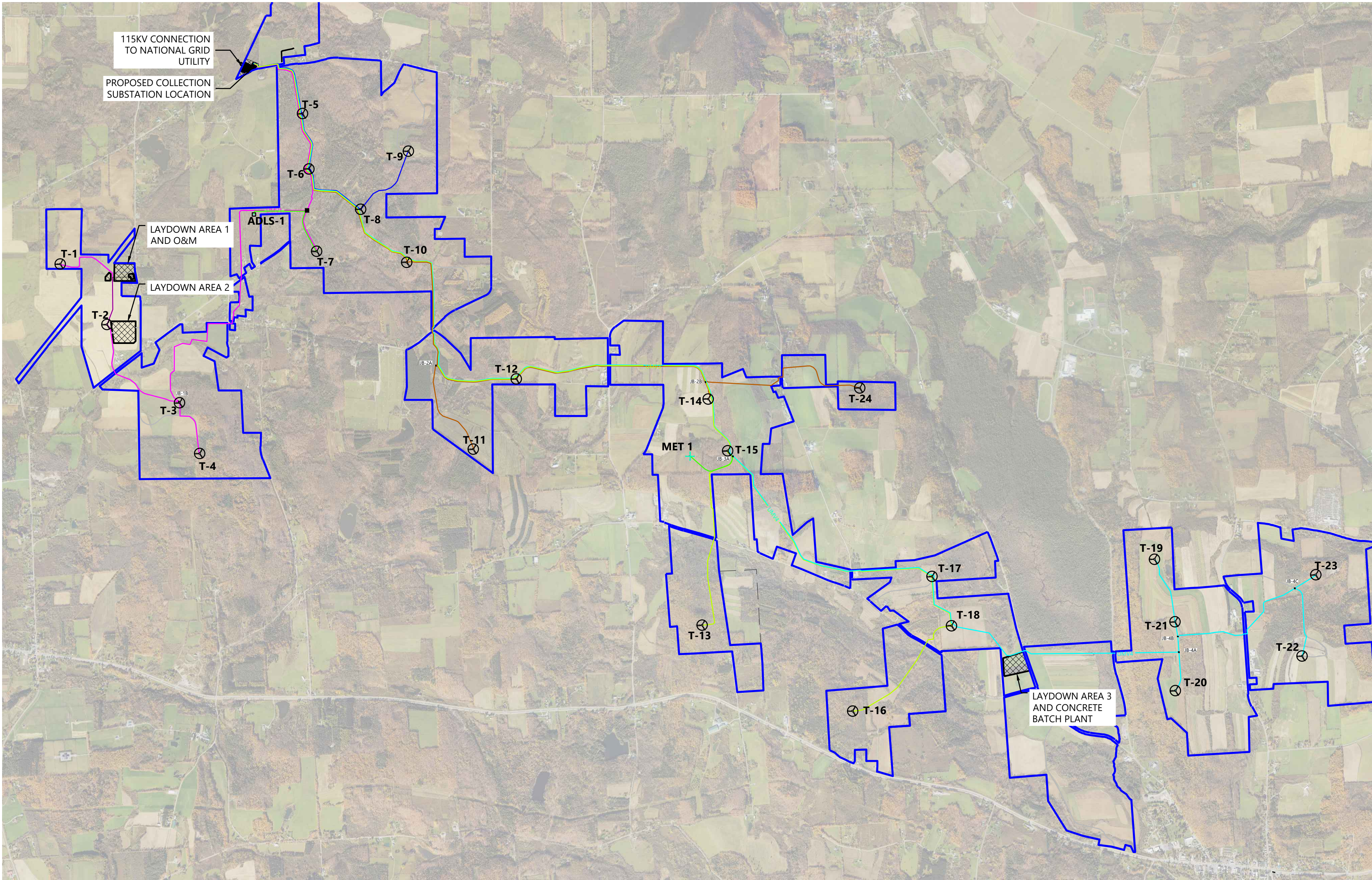
Overall MV Site Plan

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LEGEND:

- T-# WIND TURBINE
- MET-# MET TOWER LOCATION
- ADLS-#X ADLS TOWER
- CHAINLINK SECURITY FENCE
- UNDERGROUND MVAC CIRCUIT 1
- UNDERGROUND MVAC CIRCUIT 2
- UNDERGROUND MVAC CIRCUIT 3
- UNDERGROUND MVAC CIRCUIT 4
- UNDERGROUND MVAC CIRCUIT 5
- UNDERGROUND POWER CABLES
- OVERHEAD POWER LINE
- UNDERGROUND LVAC CIRCUIT
- PROPOSED ACCESS ROAD
- OVERALL PROJECT BOUNDARY
- ROAD RIGHT-OF-WAY LINES
- PROPOSED LAYDOWN YARD



	E1100	E1101					
E1102	E1103	E1104	E1105	E1106			
	E1107	E1108		E1109	E1110	E1111	E1112
				E1113	E1114	E1115	E1116

KEY MAP



1-26-2024

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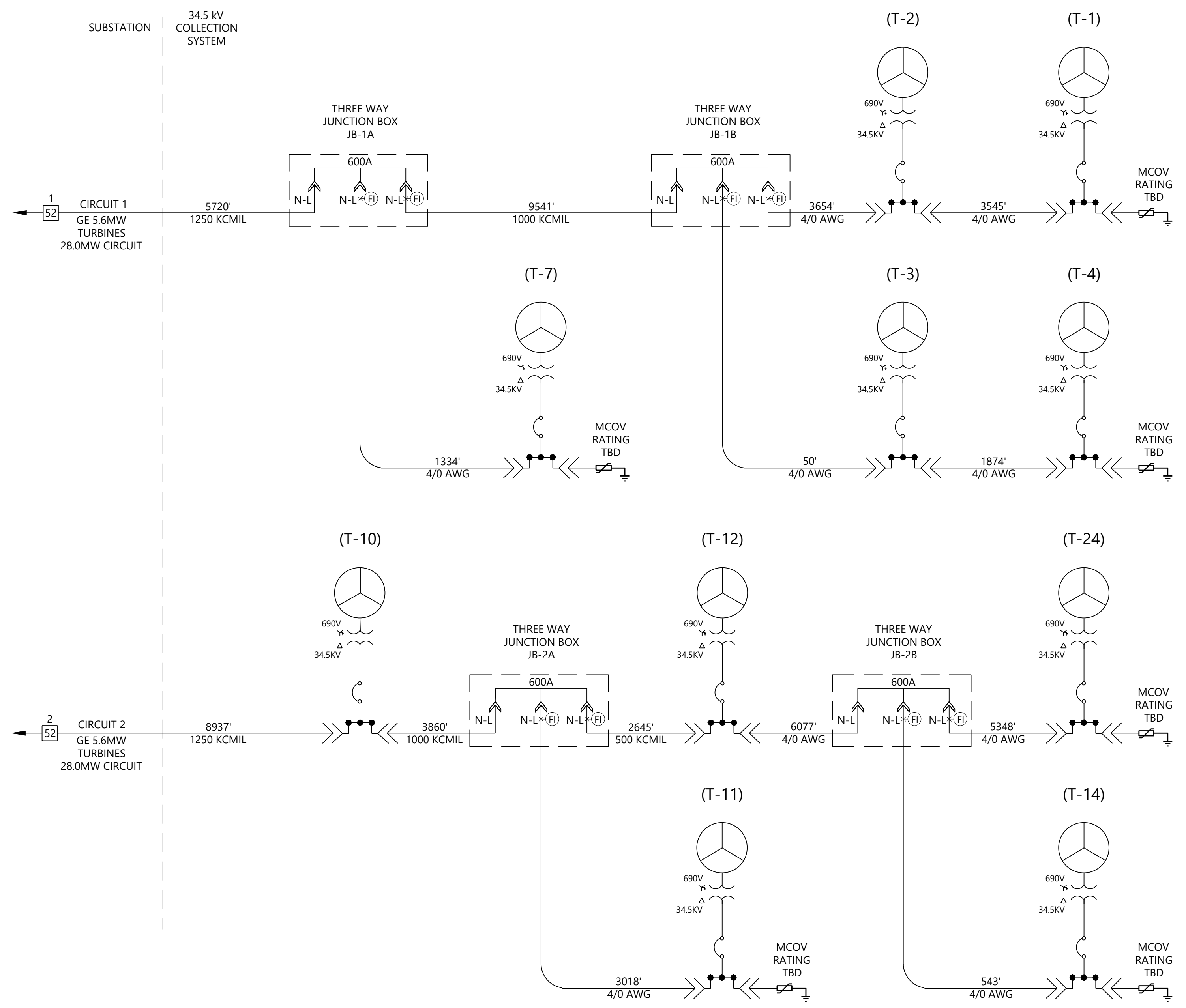
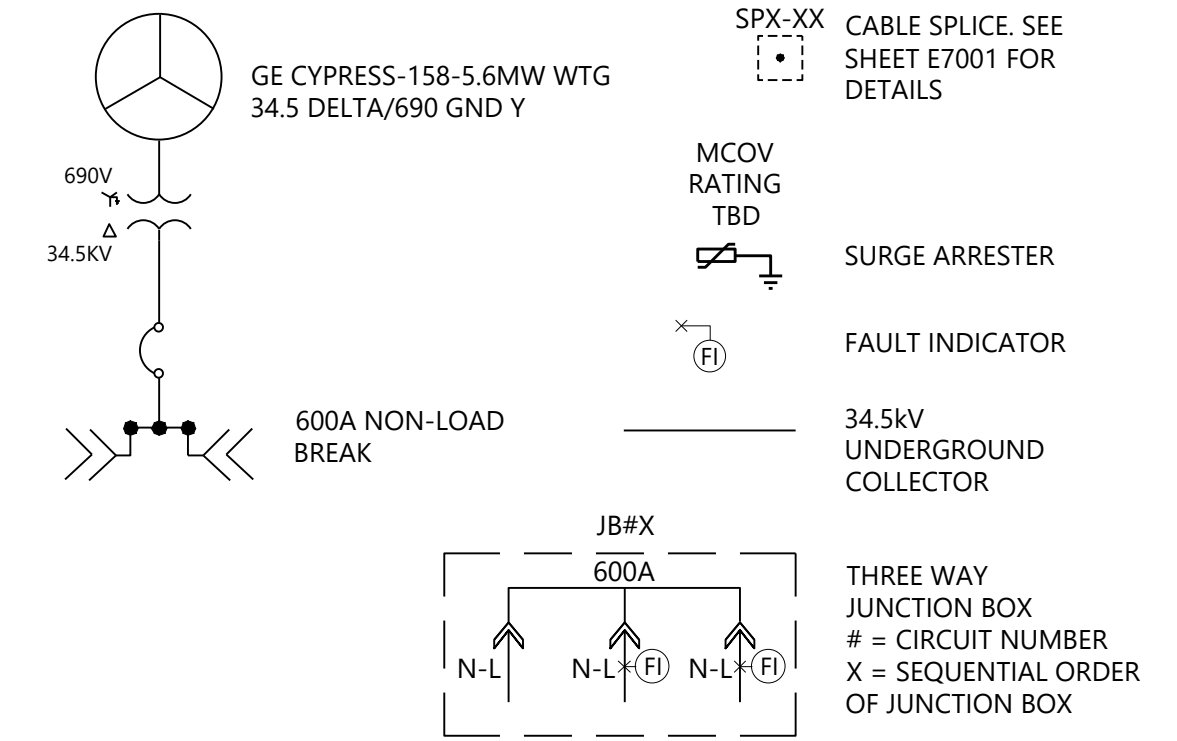
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NOTES:

1. WIND TURBINE GENERATORS DESIGNED AND ASSEMBLED BY OTHERS AND SHOWN FOR REFERENCE ONLY. WESTWOOD PROFESSIONAL SERVICES NOT RESPONSIBLE FOR WIND TURBINE GENERATOR DESIGN CONFORMING TO NEC OR ANY OTHER APPLICABLE LOCAL, STATE OR NATIONAL RECOGNIZED CODES OR REGULATIONS.
2. PROVIDE EXTERNAL SURGE ARRESTERS AT END-OF-LINE SWITCHGEAR BUSHINGS.
3. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC AND NESC.
4. ABOVE-GRADE JUNCTION BOXES OR DIRECT BURIED SPLICES TO BE INSTALLED AS NECESSARY WHERE RUN LENGTHS EXCEED AVAILABLE REEL LENGTHS.
5. DISTANCES SHOWN REFLECT LINEAR 2D DISTANCES BETWEEN TURBINES. TERMINATION LENGTH OF 50' SHOULD BE ADDED AT EACH END. CONTRACTOR SHALL PROVIDE ADDITIONAL LENGTH FOR ELEVATION CHANGE AND WASTE.
6. PRELIMINARY CABLE SIZING BASED ON ASSUMED SOIL RESISTIVITY OF 220 C-CM/W, CORRESPONDING TO AN ASSUMED NATIVE BACKFILL AT 85% COMPACTION. FINAL CABLE SIZING TO BE DETERMINED AFTER SITE SPECIFIC SOIL THERMAL RESISTIVITY DATA IS OBTAINED.
7. GROUND CONDUCTOR TO BE RUN WITH ALL MV CABLES, SIZING PENDING FUTURE STUDIES.
8. CONCENTRIC NEUTRALS SHALL BE BONDED TO GROUND AT ALL TERMINATIONS AND AT SPLICE LOCATIONS.
9. THE REPRESENTATION OF CABLE CONNECTION AND CIRCUIT BREAKER AT WIND TUBINE IS CONCEPTUAL PENDING FINAL SELECTION OF SWITCHGEAR STYLE.

LEGEND:



1 Circuits 1 and 2
 NTS

MVAC WIRING SCHEDULE											
CONDUCTOR LOCATION CODE	ORIGINATING EQUIPMENT	TERMINATING EQUIPMENT	RATED Vac (kV)	Iac (A)	LENGTH (FT)	CONDUCTOR SIZE	BACKFILL COMPACTION (%)	CONDUCTOR MATERIAL	GROUND CONDUCTOR SIZE	GROUND CONDUCTOR MATERIAL	CONDUCTOR SPECIFICS
F1.MV-SUB-JB-1A	SUB	JB-1A	34.5	468.57	5,720	3#1250 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F1.MV-JB-1A-T-7	JB-1A	T-7	34.5	93.71	1,334	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F1.MV-JB-1A-JB-1B	JB-1A	JB-1B	34.5	374.86	9,541	3#1000 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F1.MV-JB-1B-T-3	JB-1B	T-3	34.5	187.43	50	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F1.MV-T-3-T-4	T-3	T-4	34.5	93.71	1,874	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F1.MV-JB-1B-T-2	JB-1B	T-2	34.5	187.43	3,654	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F1.MV-T-2-T-1	T-2	T-1	34.5	93.71	3,545	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F2.MV-SUB-T-10	SUB	T-10	34.5	468.57	8,937	3#1250 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F2.MV-T-10-JB-2A	T-10	JB-2A	34.5	374.86	3,860	3#1000 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F2.MV-JB-2A-T-11	JB-2A	T-11	34.5	93.71	3,018	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F2.MV-JB-2A-T-12	JB-2A	T-12	34.5	281.14	2,645	3#500 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F2.MV-T-12-JB-2B	T-12	JB-2B	34.5	187.43	6,077	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F2.MV-JB-2B-T-14	JB-2B	T-14	34.5	93.71	543	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F2.MV-JB-2B-T-24	JB-2B	T-24	34.5	93.71	5,348	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket

Hoffman Falls Wind Project
 Madison County, New York

MV Circuit Single Line Diagram

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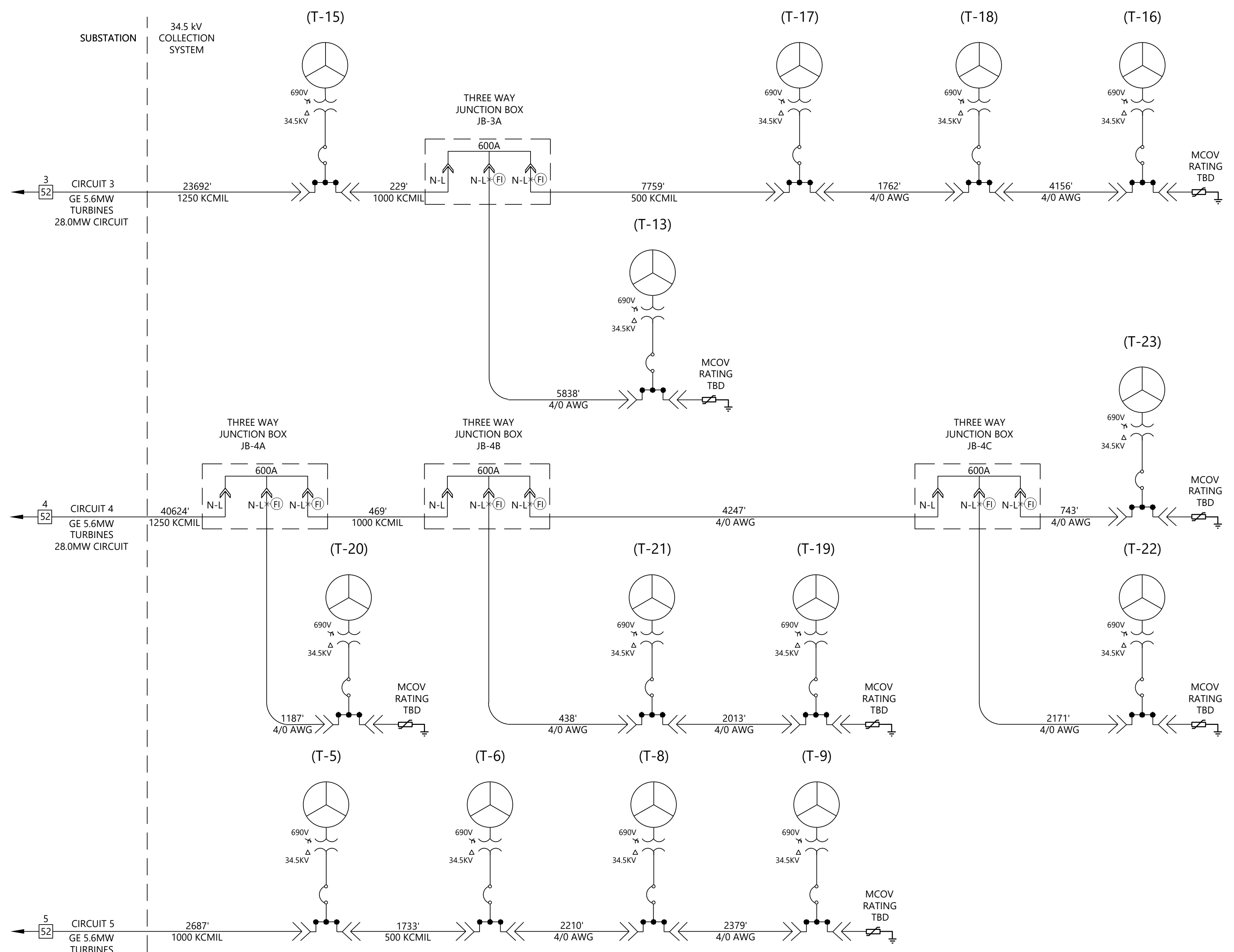
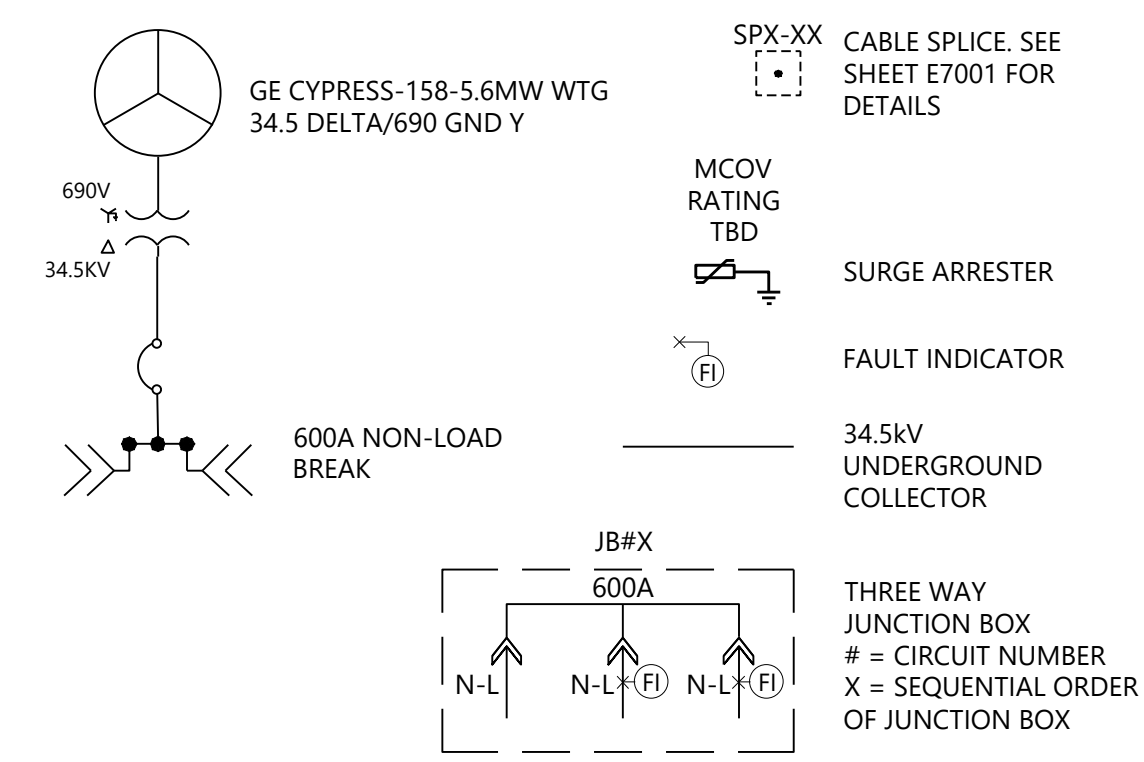
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6. CABLE SIZING BASED ON SOIL RESISTIVITY OF 120 C-CM/W, CORRESPONDING TO AN ASSUMED NATIVE BACKFILL AT 90% COMPACTION.
7. GROUND CONDUCTOR TO BE RUN WITH ALL MV CABLES, SIZING PENDING FUTURE STUDIES.
8. CONCENTRIC NEUTRALS SHALL BE BONDED TO GROUND AT ALL TERMINATIONS AND AT SPLICE LOCATIONS.
9. TWO HORIZONTAL EARTHING ELECTRODES/TRENCH GROUNDS (CONNECTED TO THE MAIN EARTH BONDING BAR) ARE TO BE RUN IN DIFFERENT DIRECTIONS WITH A MINIMUM ANGULAR SEPARATION OF 90° AND TO A MINIMUM DISTANCE OF 263 FEET.

LEGEND:



1 Circuits 3, 4, and 5
 NTS

MVAC WIRING SCHEDULE											
CONDUCTOR LOCATION CODE	ORIGINATING EQUIPMENT	TERMINATING EQUIPMENT	RATED Vac (kV)	Iac (A)	LENGTH (FT)	CONDUCTOR SIZE	BACKFILL COMPACTION (%)	CONDUCTOR MATERIAL	GROUND CONDUCTOR SIZE	GROUND CONDUCTOR MATERIAL	CONDUCTOR SPECIFICS
F3.MV-SUB-T-15	SUB	T-15	34.5	468.57	23,692	3#1250 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F3.MV-T-15-JB-3A	T-15	JB-3A	34.5	374.86	229	3#1000 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F3.MV-JB-3A-T-13	JB-3A	T-13	34.5	93.71	5,838	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F3.MV-JB-3A-T-17	JB-3A	T-17	34.5	281.14	7,759	3#500 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F3.MV-T-17-T-18	T-17	T-18	34.5	187.43	1,762	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F3.MV-T-18-T-16	T-18	T-16	34.5	93.71	4,156	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-SUB-JB-4A	SUB	JB-4A	34.5	468.57	40,624	3#1250 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-JB-4A-T-20	JB-4A	T-20	34.5	93.71	1,187	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-JB-4A-JB-4B	JB-4A	JB-4B	34.5	374.86	469	3#1000 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-JB-4B-T-21	JB-4B	T-21	34.5	187.43	438	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-T-21-T-19	T-21	T-19	34.5	93.71	2,013	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-JB-4B-JB-4C	JB-4B	JB-4C	34.5	187.43	4,247	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-JB-4C-T-23	JB-4C	T-23	34.5	93.71	743	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F4.MV-JB-4C-T-22	JB-4C	T-22	34.5	93.71	2,171	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F5.MV-SUB-T-5	SUB	T-5	34.5	374.86	2,687	3#1000 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F5.MV-T-5-T-6	T-5	T-6	34.5	281.14	1,733	3#500 KCMIL	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F5.MV-T-6-T-8	T-6	T-8	34.5	187.43	2,210	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket
F5.MV-T-8-T-9	T-8	T-9	34.5	93.71	2,379	3#4/0 AWG	90	AL	1/0 AWG	Copper	35kV, 1/C, Trefoil, 100% Insulation TR-XLPE, Type MV-105, 7#7 Concentric Neutral, XLPE Jacket

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MV Circuit Single Line Diagram

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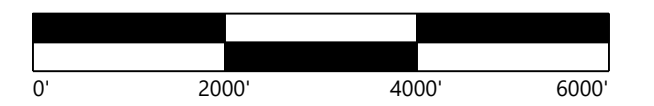
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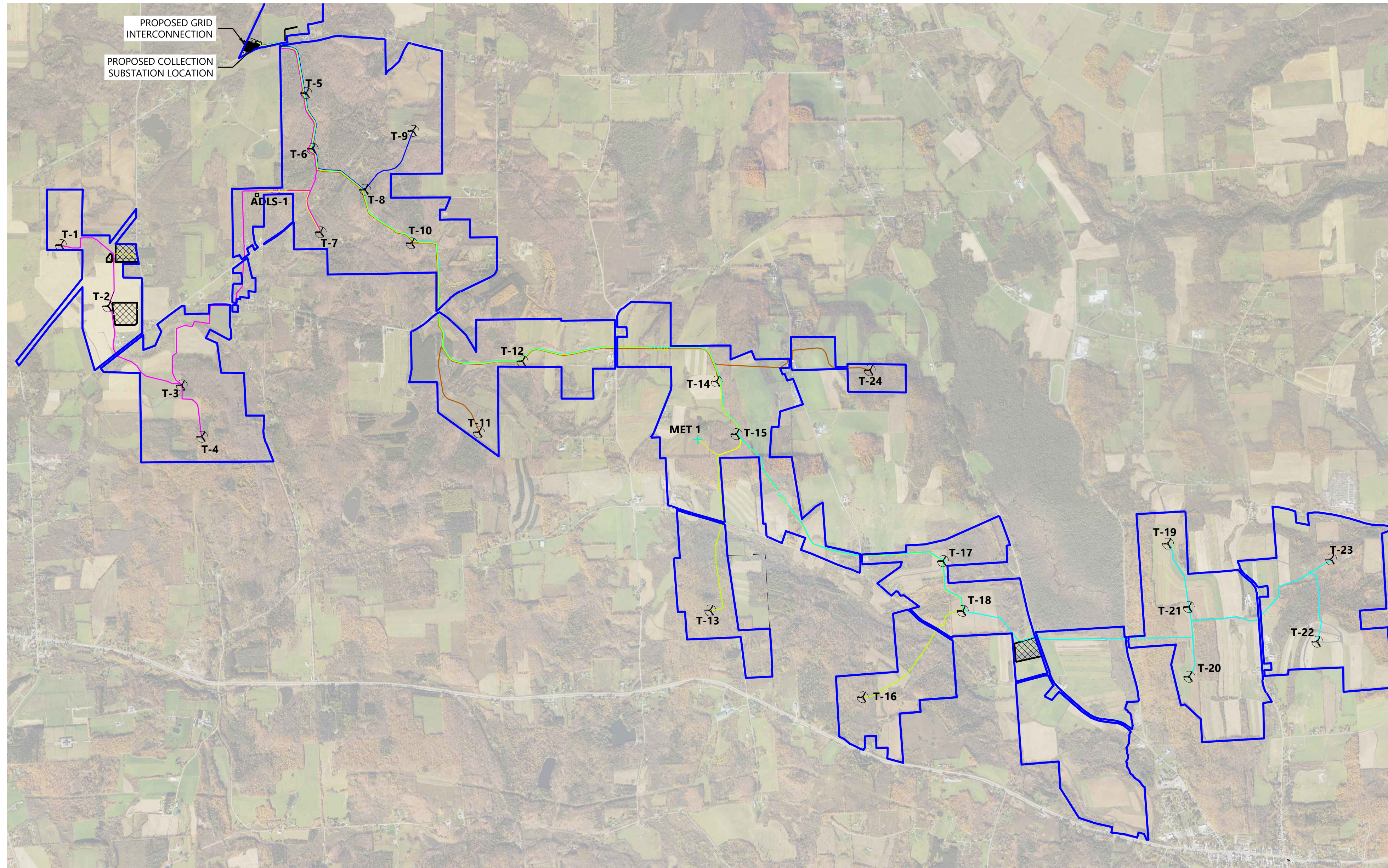
Overall
 Communications Site
 Plan

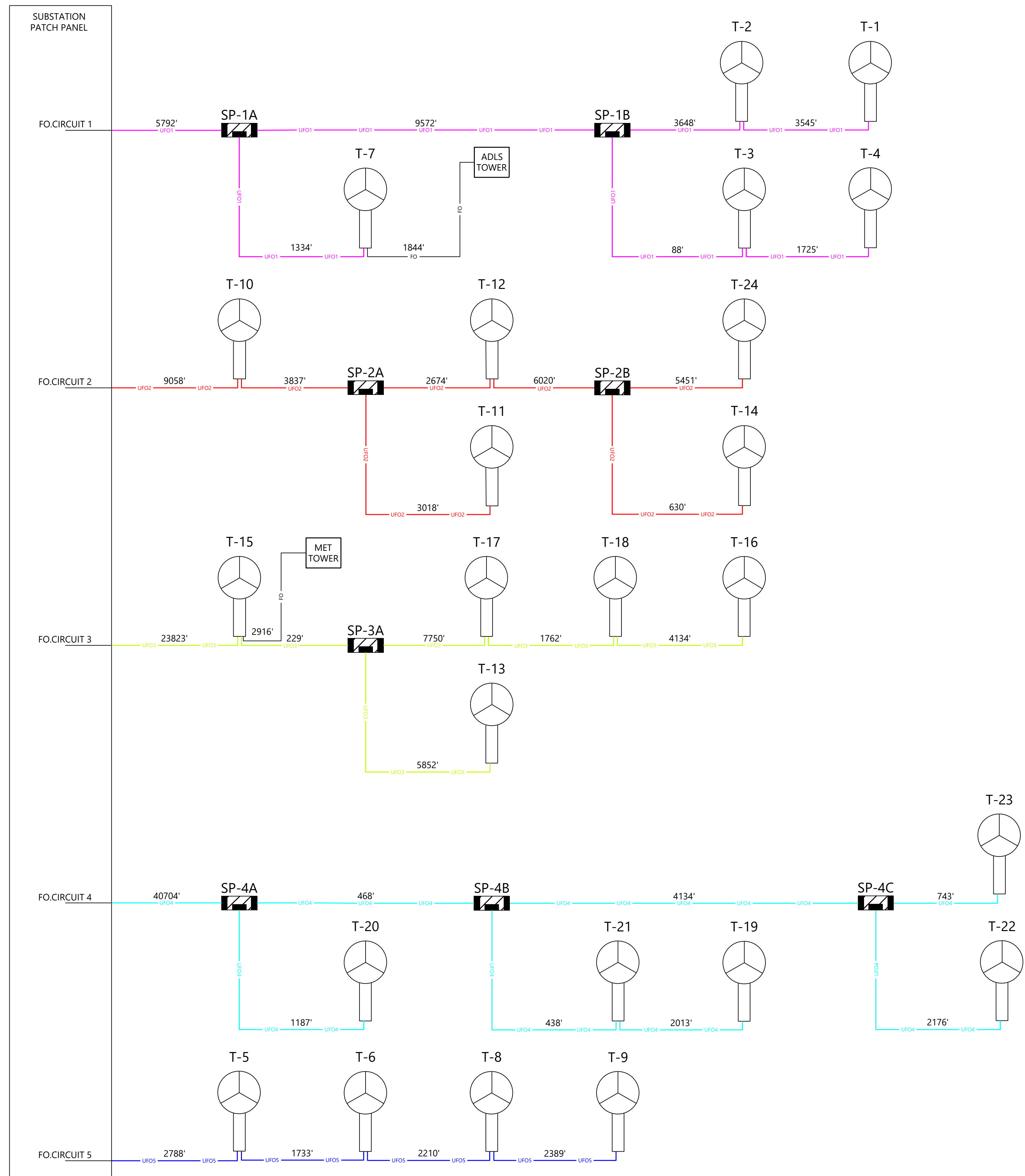
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LEGEND:

- T-# WIND TURBINE
- MET-# MET TOWER LOCATION
- ADLS TOWER
- CHAINLINK SECURITY FENCE
- UNDERGROUND FIBER OPTIC CIRCUIT 1
- UNDERGROUND FIBER OPTIC CIRCUIT 2
- UNDERGROUND FIBER OPTIC CIRCUIT 3
- UNDERGROUND FIBER OPTIC CIRCUIT 4
- UNDERGROUND FIBER OPTIC CIRCUIT 5
- AUXILIARY FIBER OPTIC CIRCUIT
- PROPOSED ACCESS ROAD
- OVERALL PROJECT BOUNDARY

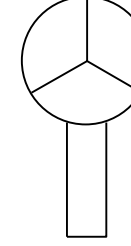












NOTES:

1. FIBER HANDHOLE LOCATED ADJACENT TO JUNCTION BOX.
2. ROUTE FIBER OPTIC CABLE IN SAME TRENCH AS MVAC WIRING WHERE AVAILABLE FOR COMMUNICATIONS AND MONITORING SITE PLANS E1000 THROUGH E1116 FOR ROUTING
3. FIBER OPTIC COMMUNICATION CABLE TO BE 9/125 UM SINGLE MODE, 12-STRAND.

LEGEND:

-  GE CYPRESS-158-5.6 MW WTG
-  UFO1 UNDERGROUND FIBER OPTIC CIRCUIT 1
-  UFO2 UNDERGROUND FIBER OPTIC CIRCUIT 2
-  UFO3 UNDERGROUND FIBER OPTIC CIRCUIT 3
-  UFO4 UNDERGROUND FIBER OPTIC CIRCUIT 4
-  UFO5 UNDERGROUND FIBER OPTIC CIRCUIT 5
-  UFO6 UNDERGROUND FIBER OPTIC CIRCUIT 6
-  FO MET/ADLS UNDERGROUND FIBER OPTIC CABLE
-  SP-#X FIBER OPTIC SPLICE BOX



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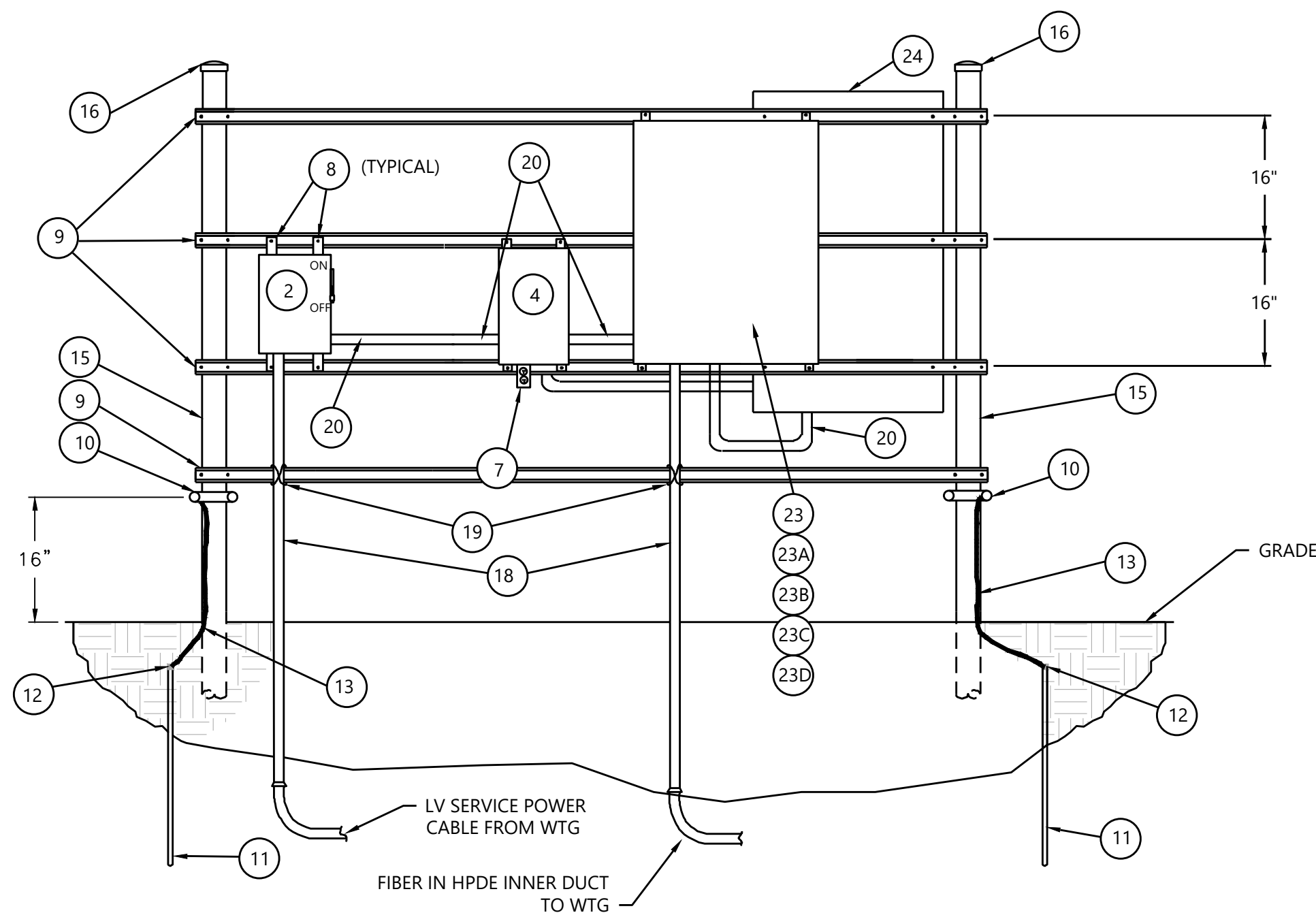
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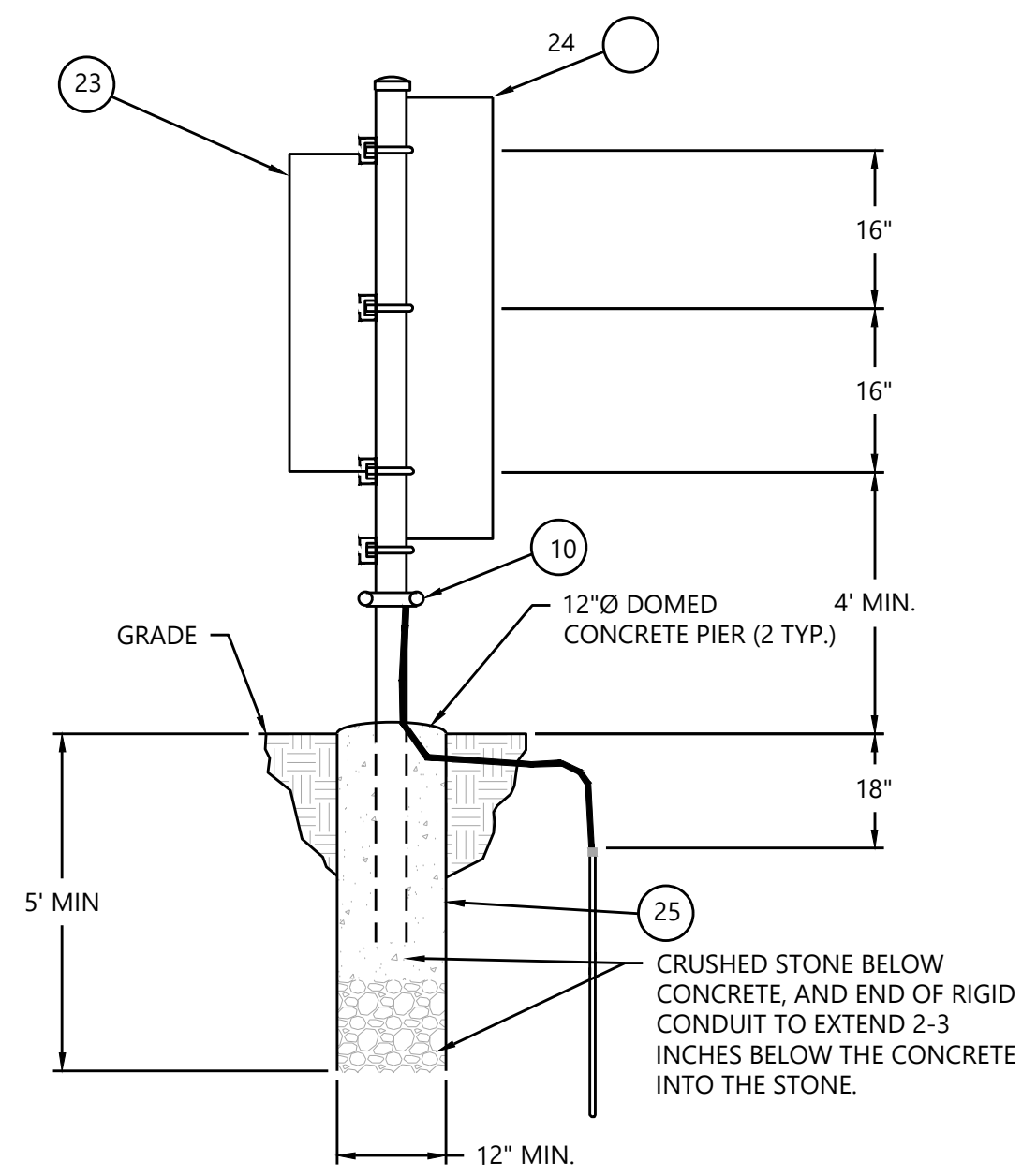
Fiber Optic Single Line Diagram

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1 MET Rack - Front Elevation
NTS



2 MET Rack - Side Elevation
NTS

NOTES:

- EQUIPMENT MAY BE LOCATED ON THE MET TOWER BEHIND THE MET TOWER RACK AND USE ABOVE GRADE CONDUIT TO MAKE CONNECTIONS AS OPPOSED TO THE BELOW GRADE CONDUIT SHOWN. CONTRACTOR TO DETERMINE BEST SOLUTION ON THE LOCATION.
- PER MANUFACTURER DOCUMENTATION CONNECTIONS ARE REQUIRED BETWEEN TERMINALS H3 TO H6 AND X2 TO X3 FOR PROPER OPERATION AS SHOWN BELOW.
- ENSURE ALL ENCLOSURES ONLY HAVE ONE GROUND CONNECTION AND ARE PROPERLY GROUNDED PER THE NEC.

MATERIALS LIST					
ITEM	QTY	UOM	DESCRIPTION	MANF.	PART#
1	1	EA	5KVA TRANSFORMER 400V-110/220V 1 PHASE	SQUARE D	5S67F
2	2	EA	SAFETY SWITCH , 600V, 30A 1-POLE, FUSIBLE, HEAVY DUTY, 200 KA	SQUARE D	DD221NRB
3	1	EA	FRS-R-15 AT MET SAFETY SWITCH	BUSSMAN	FRS-R-15
4	1	EA	120/240V AC LOADCENTER 70A W/SUBPANEL, 4SP, NEMA 3R ENCLOSURE	SQUARE D	QO612L100RB
5	4	EA	MINIATURE CIRCUIT BREAKER STANDARD, 20A, 1-POLE, 120/240 VAC, 10KA	SQUARE D	QO120
6	1	EA	SURGE ARRESTOR	SQUARE D	SDSA1175
7	1	EA	WEATHER PROOF GFCI RECEPTACLE, DUPLEX 20A WITH IN USE COVER	-	-
8	8	FT	ENCLOSURE MOUNTING, 4 BRKT KIT FOR STRUT SYSTEM	-	-
9	4	EA	1-5/8" x 1-5/8", 12 GAUGE, SLOTTED, 20'	-	-
10	2	EA	BRONZE, TINNED POST CLAMP, 3 IN., #2 STR. SOL	-	-
11	2	EA	GROUND ROD, COPPER CLAD STEEL 3/4"x10'	ERICO	613400UPC
12	2	EA	COMPRESSION CONNECTOR, 3/4" CCS ROD TO #2 AWG BARE COPPER	BURNDY	YCHC34TC2
13	20	FT	CONDUCTOR, #2 CU BARE 19 STR S.D.	-	-
14	20	FT	CONDUCTOR, #12 AWG CU, XHHW-2	-	-
15	2	EA	PIPE, GALVANIZED STEEL, 3", 10 FT LONG	-	-
16	2	EA	STEEL PIPE CAP, RIGID, 3" THREADED	-	-
17	1050	FT	CABLE, CU 3/C #6 AWG, 600V	-	-
18	10	FT	CONDUIT, 2" SCH 80 PVC	CARLON	A53CA12
19	A/R	EA	CONDUIT CLAMP, 2" SCH 80 PVC	-	-
20	10	FT	CONDUIT, 3/4" LIQUID TIGHT	-	-
21	50	FT	CONDUCTOR, #10 AWG CU, CABLE TRAY RATED	-	-
22	2	EA	NEUTRAL "DUMMY" FUSE	BUSSMAN	NTS-R-60
23	1	EA	FIBER OPTIC ENCLOSURE, NEMA 3R	-	-
23A	1	EA	PATCH PANEL	CORNING	WCH-029
23B	2	EA	CONNECTOR PANELS	CORNING	GCH-CP12-59
23C	1	EA	SPLICE TRAY	CORNING	M67-110
23D	1	EA	PATCH CORD	SM DUPLEX	SC-SC
24	1	EA	DATA LOGGER (BY OTHERS)	-	-
25	A/R	EA	CONCRETE, MINIMUM 2000 PSI	-	-
26	6	EA	ONE-HOLE LUGS FOR #6 WIRE	BURNY	Y1MRTC



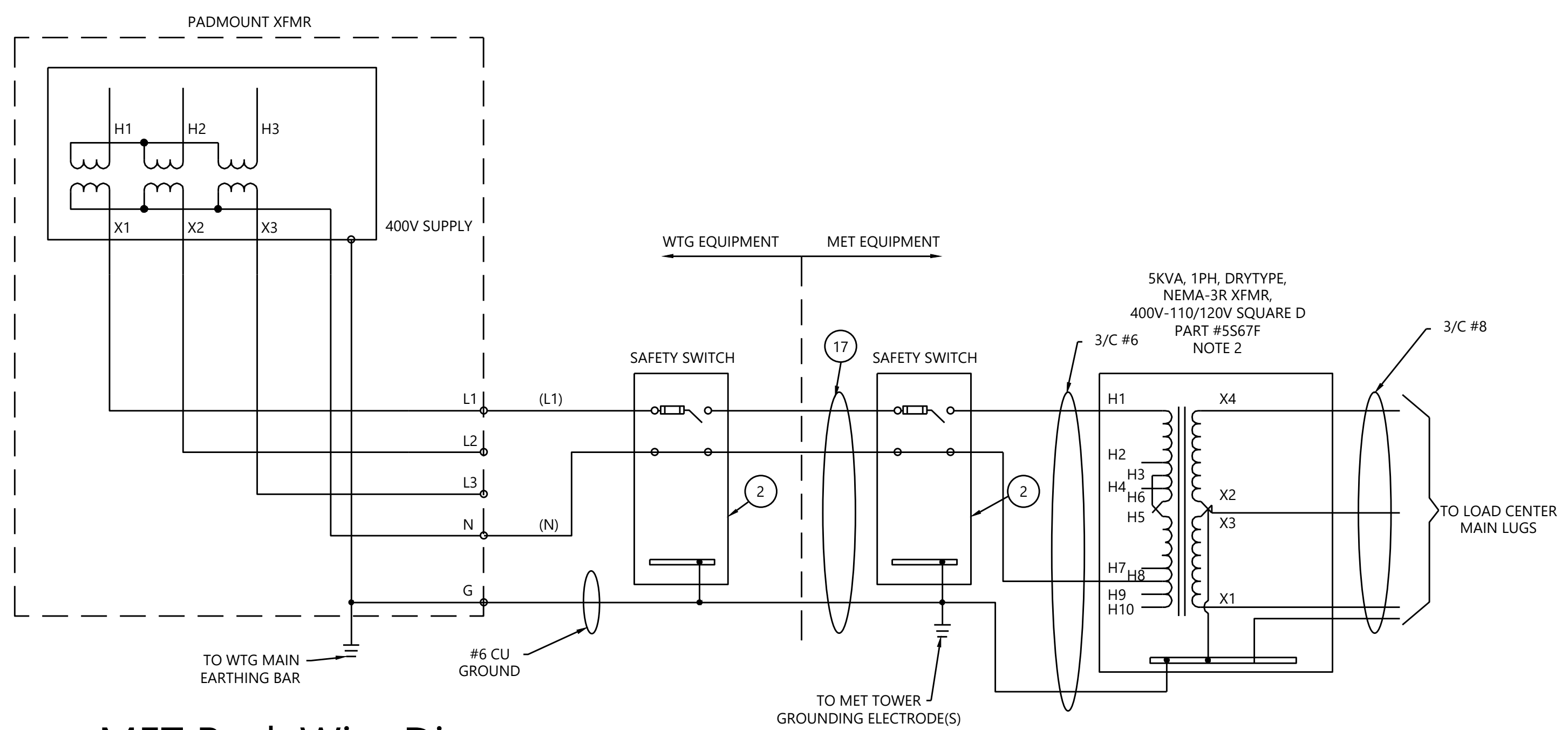
PREPARED FOR:

Hoffman Falls Wind LLC

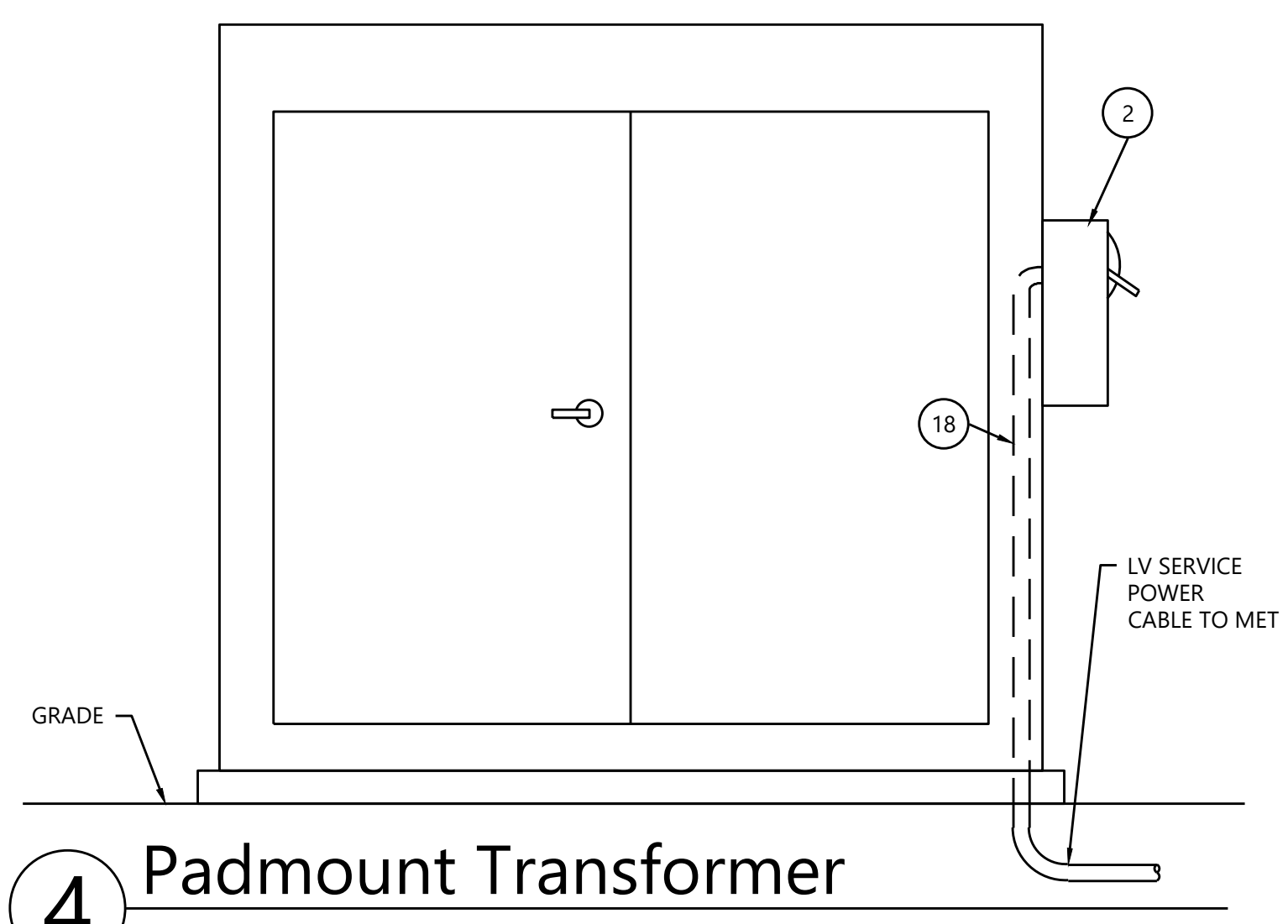
90 State Street, Suite 700
Albany, NY 12207

REVISIONS:

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A	09/08/2023	30% ELECTRICAL DESIGN	JON	GVH	DNS
B	01/26/2024	60% ELECTRICAL DESIGN	JON	GVH	DNS



3 MET Rack Wire Diagram
NTS



4 Padmount Transformer
NTS

Hoffman Falls Wind Project
Madison County, New York

Met Tower Wiring Diagram

ISSUE FOR PERMIT

DATE: 01/26/2024 REV:
SHEET: E6400 B



1-26-2024

PREPARED FOR:

Hoffman Falls Wind LLC

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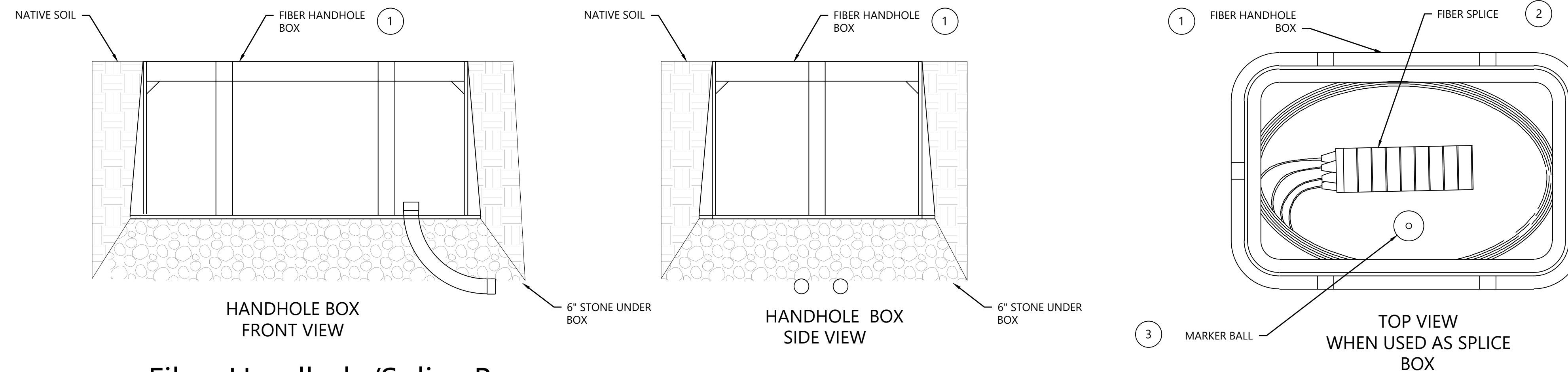
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B	01/26/2024	60% ELECTRICAL DESIGN	JON	GVH	DNS

NOTES:

1. DETAIL 1, HANDHOLE/SPLICE BOX MAY BE USED AS HANDHOLE OR SPLICE BOX. HANDHOLES TO BE USED ADJACENT TO 3-WAY MEDIUM VOLTAGE SECTIONALIZERS.
2. PROVIDE 50 FEET TAILS OF FIBER FOR EACH CABLE WHEN USED AS SPLICE BOX.
3. DO NOT EXCEED THE MINIMUM BEND RADIUS OF 6 INCHES UNDER LOAD AND 4 INCHES WITH NO LOAD.
4. SIZE OF GROMMETS AND CLOSURE ACCESSORIES TO MEET CABLE SIZE AND QUANTITY.
5. BRING CABLE INNER DUCT INTO SPLICE BOX 3 INCHES ABOVE GRAVEL FILL.
6. SEAL ALL CONDUITS WITH FOAM AFTER CABLE INSTALLATION.
7. FILL BOTTOM OF BOXES WITH 9 INCHES PEA GRAVEL TO PREVENT RODENT ENTRY.
8. OWNER APPROVAL REQUIRED AT ANY SPLICE LOCATION

MATERIALS LIST					
ITEM	QTY	UOM	DESCRIPTION	MANF.	PART#
1	A/R	EA	ECLOSURE BOX, POLYMER SPLICE BOX 13"x 24" x 18" STRAIGHT WALL OPEN BOTTOM	HUBBEL BY QUAZITE	PG1324BA18
2	1	EA	12 FIBER SPLICE ENCLOSURE WITH 4 PORT END PLATE KIT	FIBERTRONICS	HTB-F01-12
3	1	EA	EMS MARKER BALL	3M	1401-XR



1 Fiber Handhole/Splice Box
NTS

**Hoffman Falls
Wind Project**
Madison County, New York

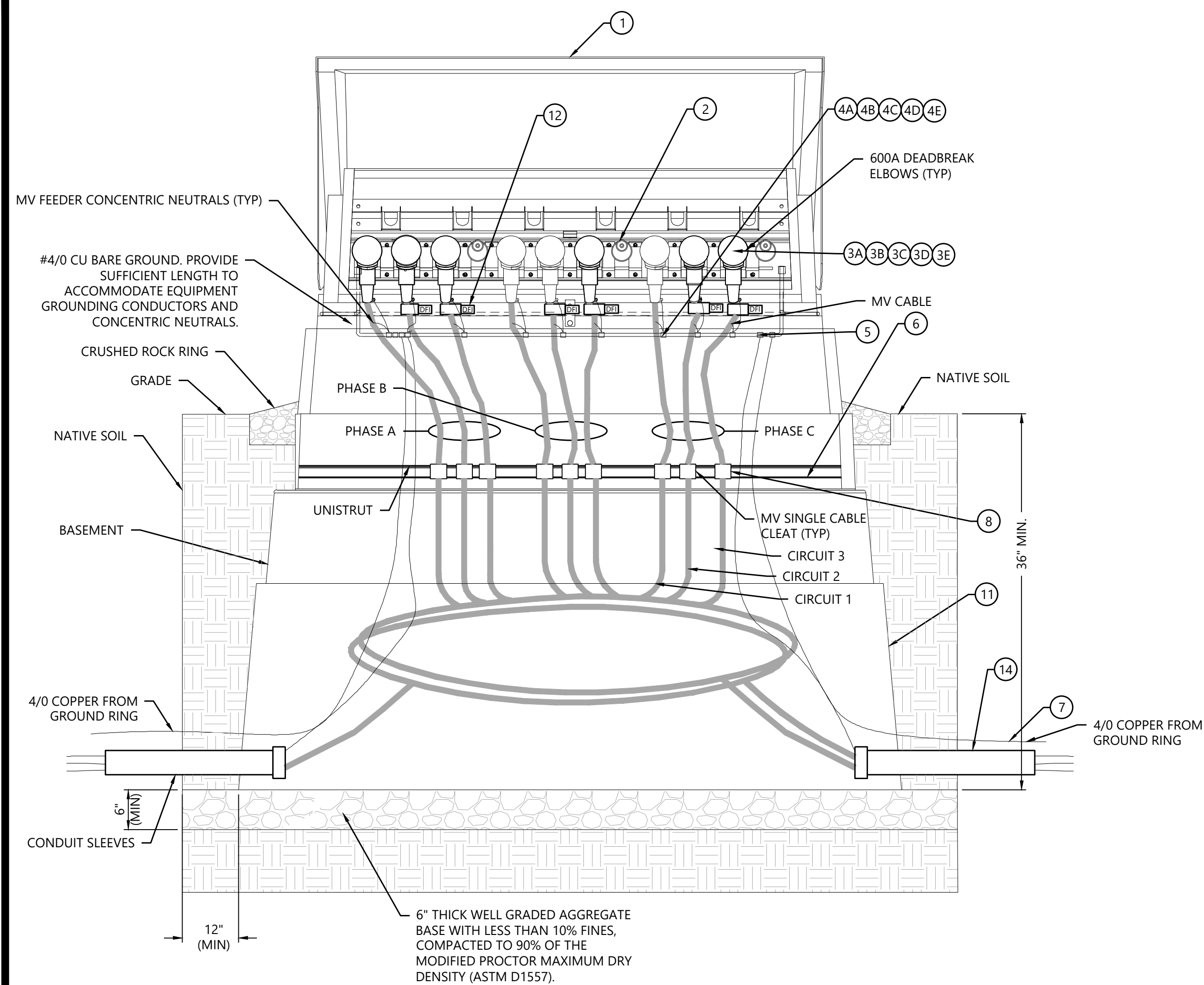
Fiber Splice Box

ISSUE FOR PERMIT

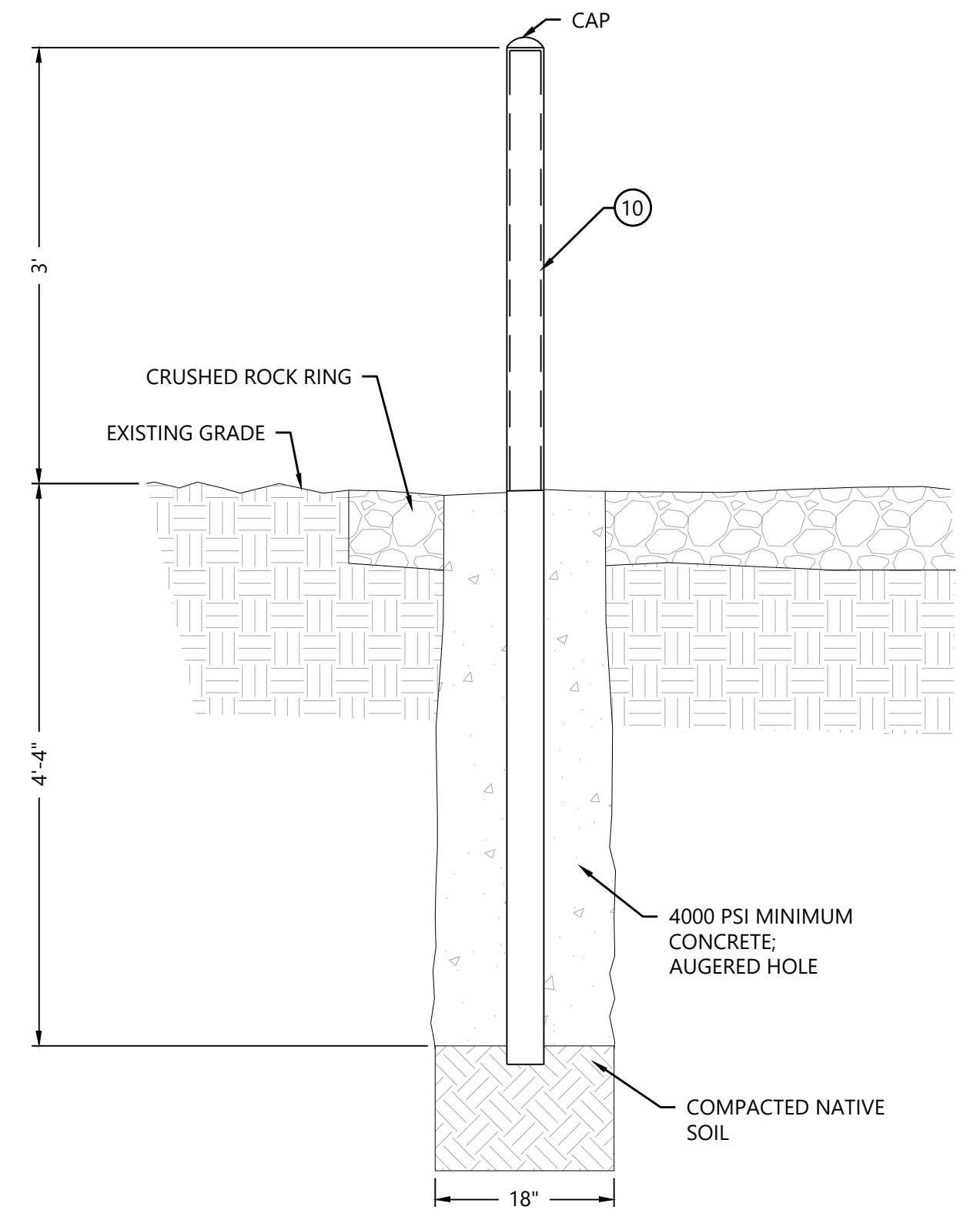
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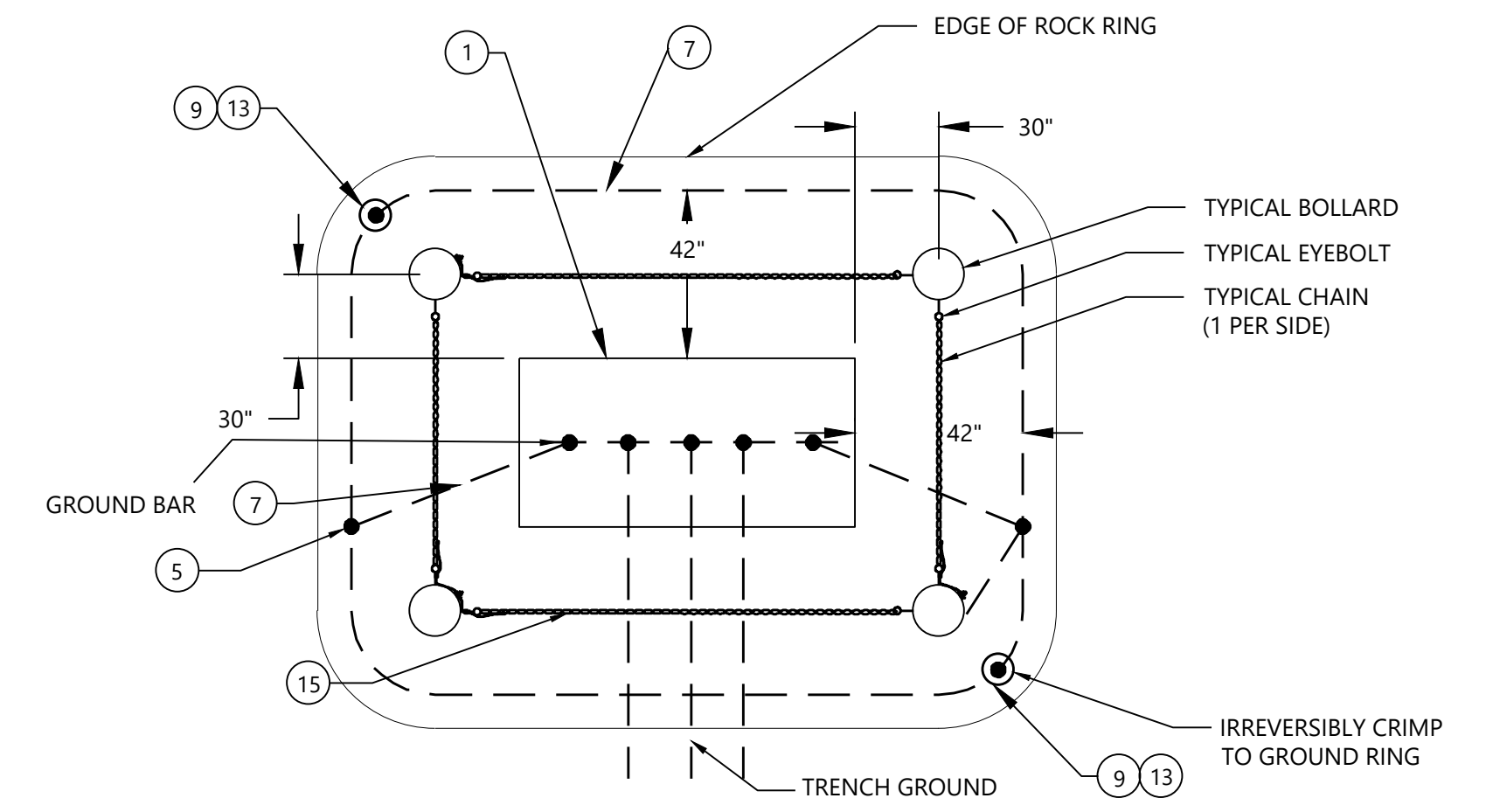
REV:



1 3-Way Junction Box Detail
NTS



3 Bollard (Guard Post) Detail
NTS



2 Grounding & Bollard Detail
NTS

MATERIALS LIST					
ITEM	3-WAY QTY	UOM	DESCRIPTION	MANUF. (OR EQUAL)	PART# (OR EQUAL)
1	1	EA	SECTIONALIZING CABINET, 3-WAY, 34.5 KV, WITH GROUNDING BAR	HUBBELL	P3783259MDM0512
2	3	EA	JUNCTION, 600A, 34.5 KV, W/MOUNTING HARDWARE	HUBBELL	635J3U
3A	A/R	EA	DEADBREAK ELBOWS, 600A, 34.5 KV, 1250 KCMIL	HUBBELL	635BTUU4TJ
3B	A/R	EA	DEADBREAK ELBOWS, 600A, 34.5 KV, 1000 KCMIL	HUBBELL	635BTUU4TJ
3C	A/R	EA	DEADBREAK ELBOWS, 600A, 34.5 KV, 750 KCMIL	HUBBELL	635BTNU3TJ
3D	A/R	EA	DEADBREAK ELBOWS, 600A, 34.5 KV, 500 KCMIL	HUBBELL	635BTNU3TJ
3E	A/R	EA	DEADBREAK ELBOWS, 600A, 34.5 KV, 4/0 AWG	HUBBELL	635BTU1TJ
4A	A/R	EA	CONNECTOR, COMPRESSION, CONC. WIRE FLAT STRAP TO SECTIONALIZER GROUNDING - 1250 KCMIL	BURNDY	YGHC26C26CN
4B	A/R	EA	CONNECTOR, COMPRESSION, CONC. WIRE FLAT STRAP TO SECTIONALIZER GROUNDING - 1000 KCMIL	BURNDY	YGHC26C26CN
4C	A/R	EA	CONNECTOR, COMPRESSION, CONC. WIRE FLAT STRAP TO SECTIONALIZER GROUNDING - 750 KCMIL	BURNDY	YGHC26C26CN
4D	A/R	EA	CONNECTOR, COMPRESSION, CONC. WIRE FLAT STRAP TO SECTIONALIZER GROUNDING - 500 KCMIL	BURNDY	YGHC26C26CN
4E	A/R	EA	CONNECTOR, COMPRESSION, CONC. WIRE FLAT STRAP TO SECTIONALIZER GROUNDING - 4/0 AEG	BURNDY	YGHC26C26CN
5	7	EA	CONNECTOR, COMPRESSION, TRENCH GND (7#8 CCS) TO SECTIONALIZER GROUNDING	BURNDY	YGHC29C29
6	A/R	EA	UNISTRUT, 1-5/8"	UNISTRUT	P1000
7	75	FT	CONDUCTOR, BARE COPPER STR, 4/0 AWG	ALANWIRE	
8	A/R	EA	CABLE CLAMPS		
9	2	EA	CONNECTOR, COMPRESSION, 3/4" COPPER CLAD GROUND ROD TO 4/0 AWG CU	BURNDY	YGHC29C34
10	4	EA	4" X 88" BOLLARDS ARE CONCRETE FILLED WITH STEEL REINFORCING. INCLUDES YELLOW POLYETHYLENE PLASTIC SLEEVE	CONCAST	8005Y-4F
11	4	EA	SECTIONALIZING CABINET GROUND SLEEVE, 36"	HUBBELL	E0A4896503
12	6	EA	DIRECTIONAL FAULT INDICATOR	SEL	3TPR31200IRW
13	2	EA	GROUND ROD COPPER CLAD STEEL 3/4" X 10'	CARLON	59618-010
14	A/R	EA	8" ADS SINGLE WALL PIPE ONE PER CIRCUIT	ADS	
15	120 - 180	FT	SAFETY CHAIN - PLASTIC TO GO BETWEEN BOLLARDS	CONCAST	8007

NOTES:

- JUNCTION BOX GROUND RING TO BE 4/0 AWG BARE CU, 18" DEEP AND 42" AWAY FROM ENCLOSURE. PROVIDE (2) TWO GROUND RODS, INSTALL ON OPPOSITE CORNERS OF GROUND RING.
- CONTRACTOR SHALL SELECT PROPER CABLE BRACKET AND T-BODY SIZE BASED ON CABLE SIZE.
- ALL CABLES MUST HAVE SUFFICIENT LENGTH TO ENSURE TWO FUTURE TERMINATIONS.
- WARNING LABEL TO BE SET ON THE FRONT OF CABINET.
- BOLLARDS ARE TO BE PLACED AT APPROXIMATELY 30 INCHES FROM ALL FOUR EDGES OF JUNCTION BOX.
- CONDUIT POSITIONING WITHIN BASEMENT TO BE ADJUSTED BY CONTRACTOR AS NEEDED TO SATISFY MINIMUM CONDUCTOR BENDING REQUIREMENTS. IN NO CASE SHALL THE BENDING RADIUS OF THE MEDIUM VOLTAGE CABLE BE LESS THAN 12 TIMES THE CABLE DIAMETER.
- BOND CONCENTRIC NEUTRAL AND DRAIN WIRE FROM EACH TERMINATION TO GROUND BUS. BOND TRENCH GROUND TO GROUND BUS.
- REMOVE ALL BURRS AND ROUGH EDGES FROM END OF CONDUITS PRIOR TO PULLING CABLE.
- CRUSHED ROCK RING LAYER TO BE APPLIED AT SURFACE FOR VEGETATION MANAGEMENT.
- FIBER HAND HOLE MAY BE INSTALLED WITH TOP AT GRADE, ADJACENT TO JUNCTION BOX. IN SUCH CASES, GROUND RING AND BOLLARD PLACEMENT SHALL BE ADJUSTED AS NECESSARY TO ENCOMPASS HANDHOLE.
- JUNCTION BOX SHALL NOT BE PLACED DIRECTLY OVER MAIN TRENCH LINE. PLACEMENT SHALL BE OFFSET FROM MAIN TRENCH LINE BY MINIMUM FIVE FEET.
- FOR 500 KCMIL OR SMALLER CABLE, ESTABLISH SLACK VIA COIL IN THE JUNCTION BOX. FOR CABLE SIZES OVER 500 KCMIL, ESTABLISH SLACK VIA AN S-CURVE.
- LATCH OF JUNCTION BOX MUST BE AT LEAST 6" ABOVE ROCK.
- TWO GROUND CLAMPS PER GROUNDED BOLLARD. SPACE AS NEEDED.
- RUN #2 TINNED COPPER DOWN BOLLARD AND TIE INTO GROUND RING.
- CABLE CLAMPS FOR USE ON CABLES 500KCMIL AND LARGER.



1-26-2024

PREPARED FOR:

Hoffman Falls Wind LLC

90 State Street, Suite 700
 Albany, NY 12207

REVISIONS:

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B	01/26/2024	60% ELECTRICAL DESIGN	JON	GVH	DNS

Hoffman Falls Wind Project

Madison County, New York

Sectionalizer Cabinet

ISSUE FOR PERMIT

DATE: 01/26/2024

SHEET: E7000

REV: B



1-26-2024

PREPARED FOR:

Hoffman Falls Wind LLC

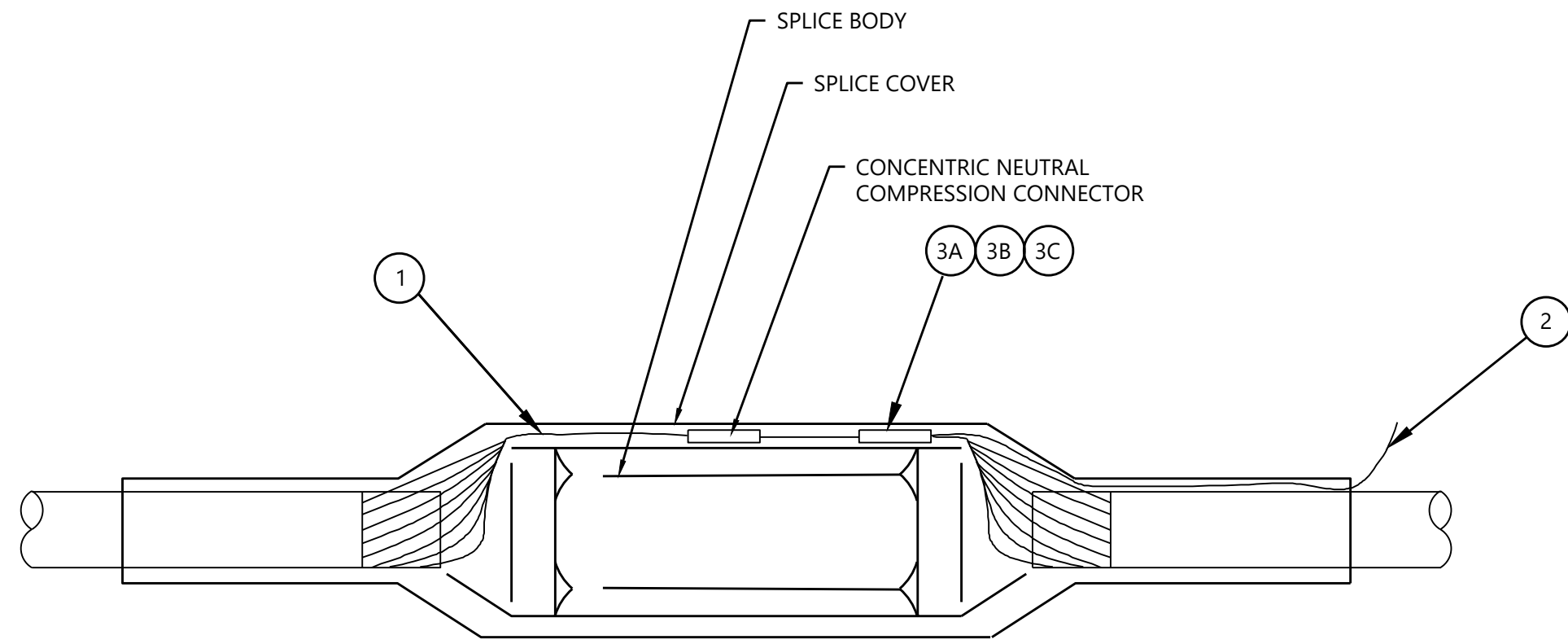
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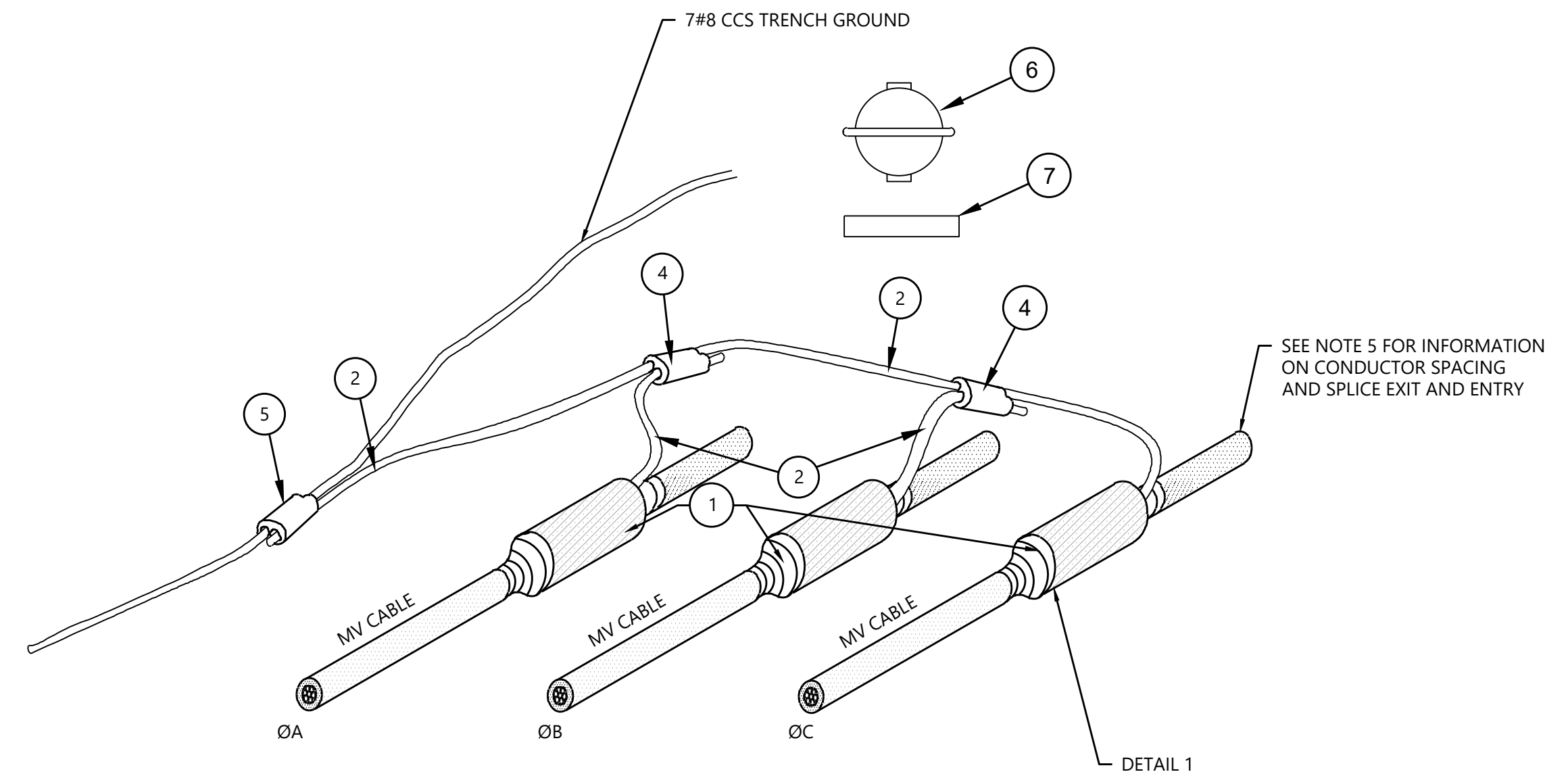
NOTES:

1. SPLICE KIT INCLUDES SPLICE BODY, SPLICE COVER AND COMPRESSION CONNECTOR.
2. PERFORM ALL SPLICES USING MANUFACTURER'S INSTRUCTIONS.
3. PLACE LOCATABLE MARKER BALL ABOVE SPLICE AT 24" DEPTH.
4. SPLICE LOCATION TO BE COMPACTED PER GENERAL TRENCH COMPACTION SPEC.
5. CABLES TO BE LAID FLAT WITH 9" SEPARATION AT SPLICE. CABLE SLACK TO BE CREATED IN S CURVES ON BOTH SIDES OF SPLICE BEFORE RETURNING CABLE TO TREFOIL ARRANGEMENT.
6. FIBER OPTIC INNER DUCT SHALL BE PLACED ADJACENT TO SPLICE.
7. ALL SPLICES SHALL BE GPS LOCATED AND BALL-MARKER IDS TO BE PROVIDED FOR EACH LOCATION FOR INCLUSION IN RECORD DRAWINGS.
8. REFERENCE VENDORS AND PART NUMBERS ARE SHOWN. EQUIVALENT PARTS FROM OTHER VENDORS MAY BE SUBMITTED FOR APPROVAL.



1 Splice Detail
 NTS

ITEM	QTY	UOM	DESCRIPTION	MANUF. OR EQUAL	PART #
1A	3	EA	SPLICE KIT, CABLE, 1/0 AWG, 35 KV	TE CONNECTIVITY	CSJ-SR-3513M5
1B	3	EA	SPLICE KIT, CABLE, 4/0 AWG, 35 KV	TE CONNECTIVITY	CSJ-SR-3513M5
1C	3	EA	SPLICE KIT, CABLE, 500 KCMIL, 35 KV	TE CONNECTIVITY	CSJ-SR-3514M8
1D	3	EA	SPLICE KIT, CABLE, 750 KCMIL, 35 KV	TE CONNECTIVITY	CSJ-SR-3514M8
1E	3	EA	SPLICE KIT, CABLE, 1000 KCMIL, 35 KV	TE CONNECTIVITY	CSJ-SR-3514M9
1F	3	EA	SPLICE KIT, CABLE, 1250 KCMIL, 35 KV	TE CONNECTIVITY	CSJ-SR-3514M10
2	20	FT	CONDUCTOR, 2 AWG, SOLID, CU, BARE	SOUTHWIRE	
3A	3	EA	COMPRESSION CONNECTOR, CN TO CN - 1250 KCMIL	BURNDY	YGHC26C26CN
3B	3	EA	COMPRESSION CONNECTOR, CN TO CN - 1000 KCMIL	BURNDY	YGHC26C26CN
3C	3	EA	COMPRESSION CONNECTOR, CN TO CN - 750 KCMIL	BURNDY	YGHC26C26CN
3D	3	EA	COMPRESSION CONNECTOR, CN TO CN - 500 KCMIL	BURNDY	YGHC26C26CN
3E	3	EA	COMPRESSION CONNECTOR, CN TO CN - 4/0 AWG	BURNDY	YGHC26C26CN
4	2	EA	COMPRESSION CONNECTOR, #2 AWG CU TO #2 AWG CU	BURNDY	YGHC2C2CN
5	1	EA	COMPRESSION CONNECTOR, #2 AWG CU TO 7#8 CCS	BURNDY	YGHC29C26
6	1	EA	EMS MARKER BALL	3M	1401-XR



2 Splice Arrangement Detail
 NTS

**Hoffman Falls
 Wind Project**
 Madison County, New York

Medium Voltage Splice

ISSUE FOR PERMIT

DATE: 01/26/2024
 SHEET: E7001 B
 REV: B



1-26-2024

PREPARED FOR:

Hoffman Falls Wind LLC

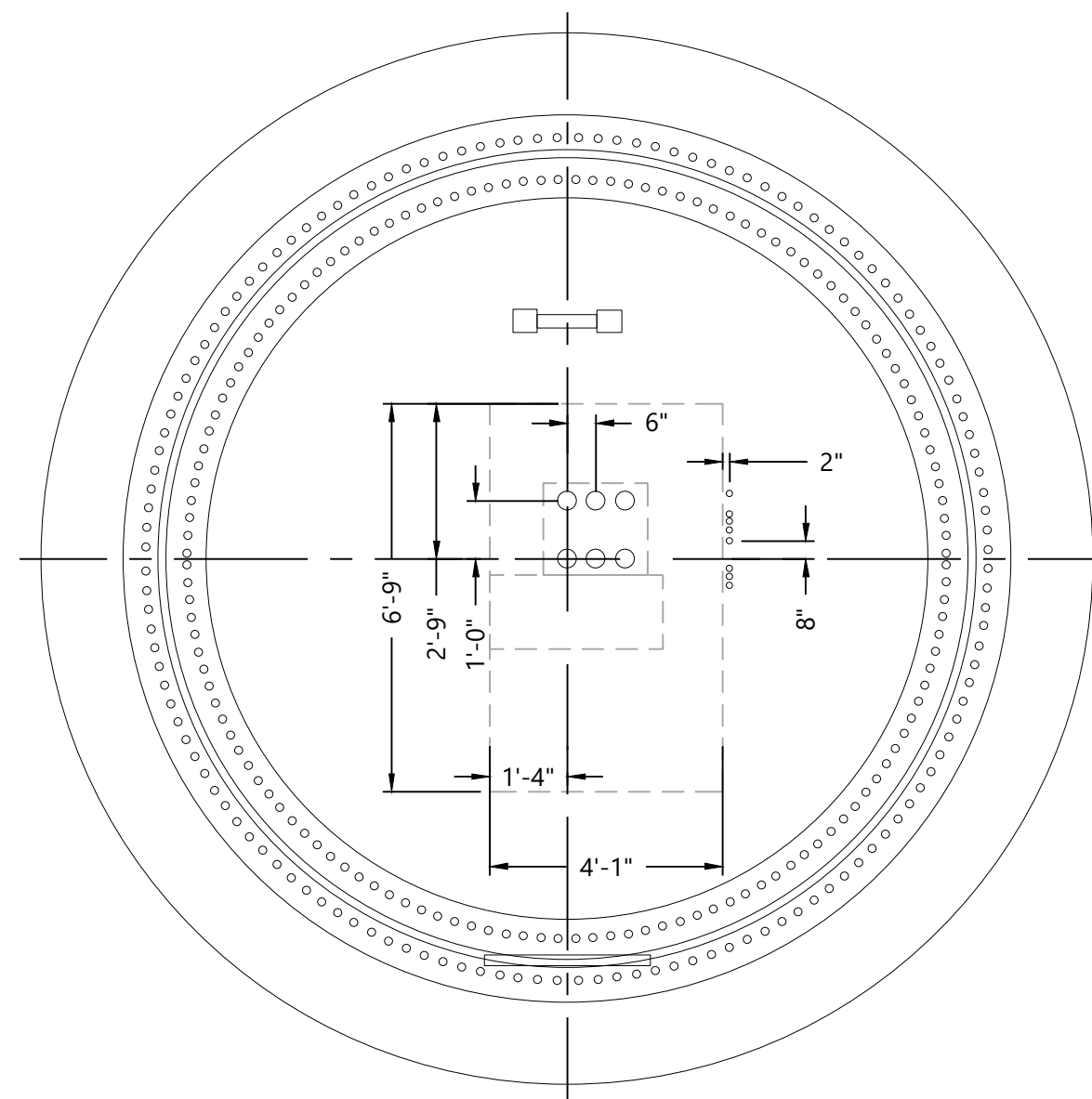
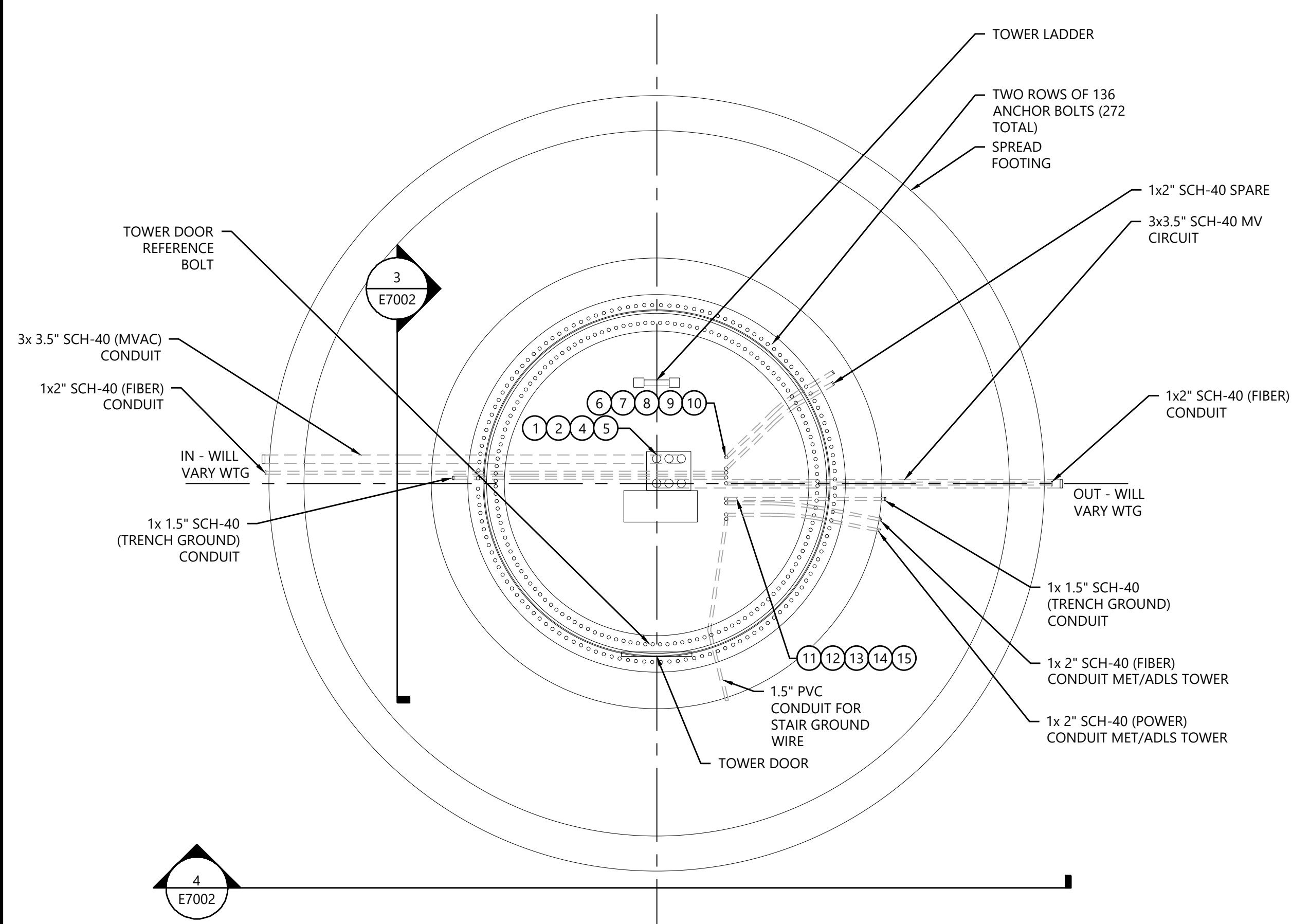
90 State Street, Suite 700
 Albany, NY 12207

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NOTES:

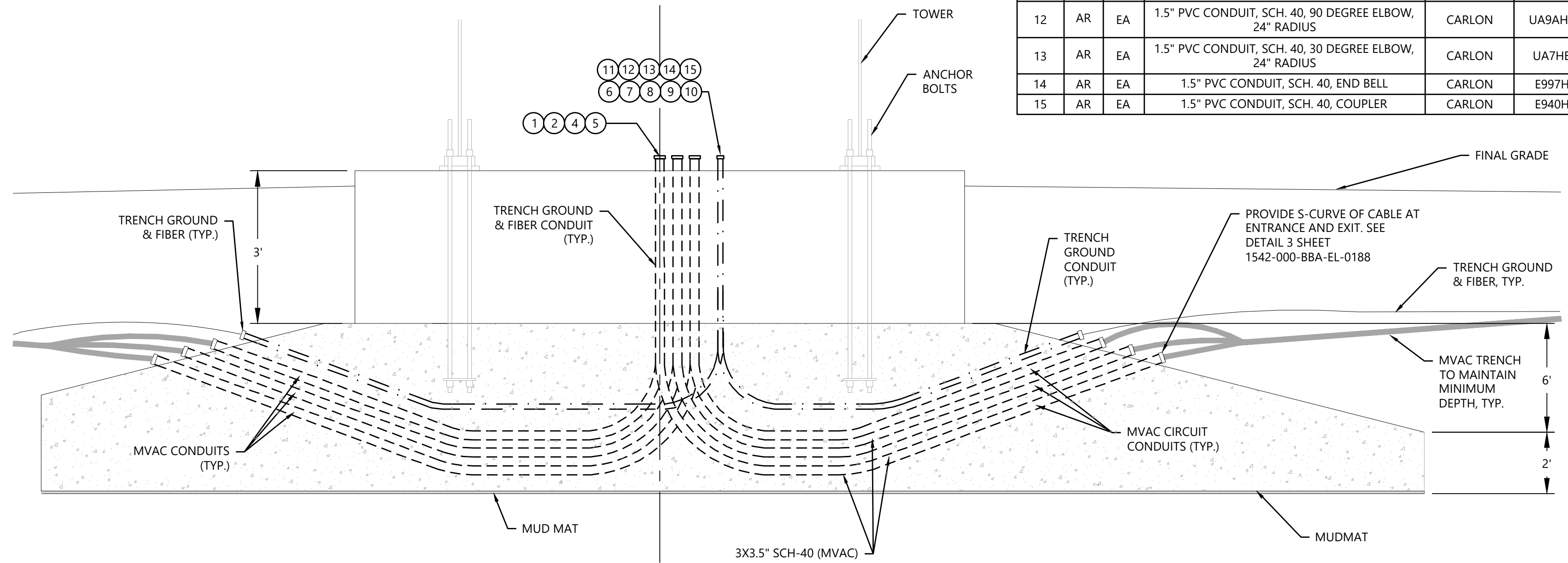
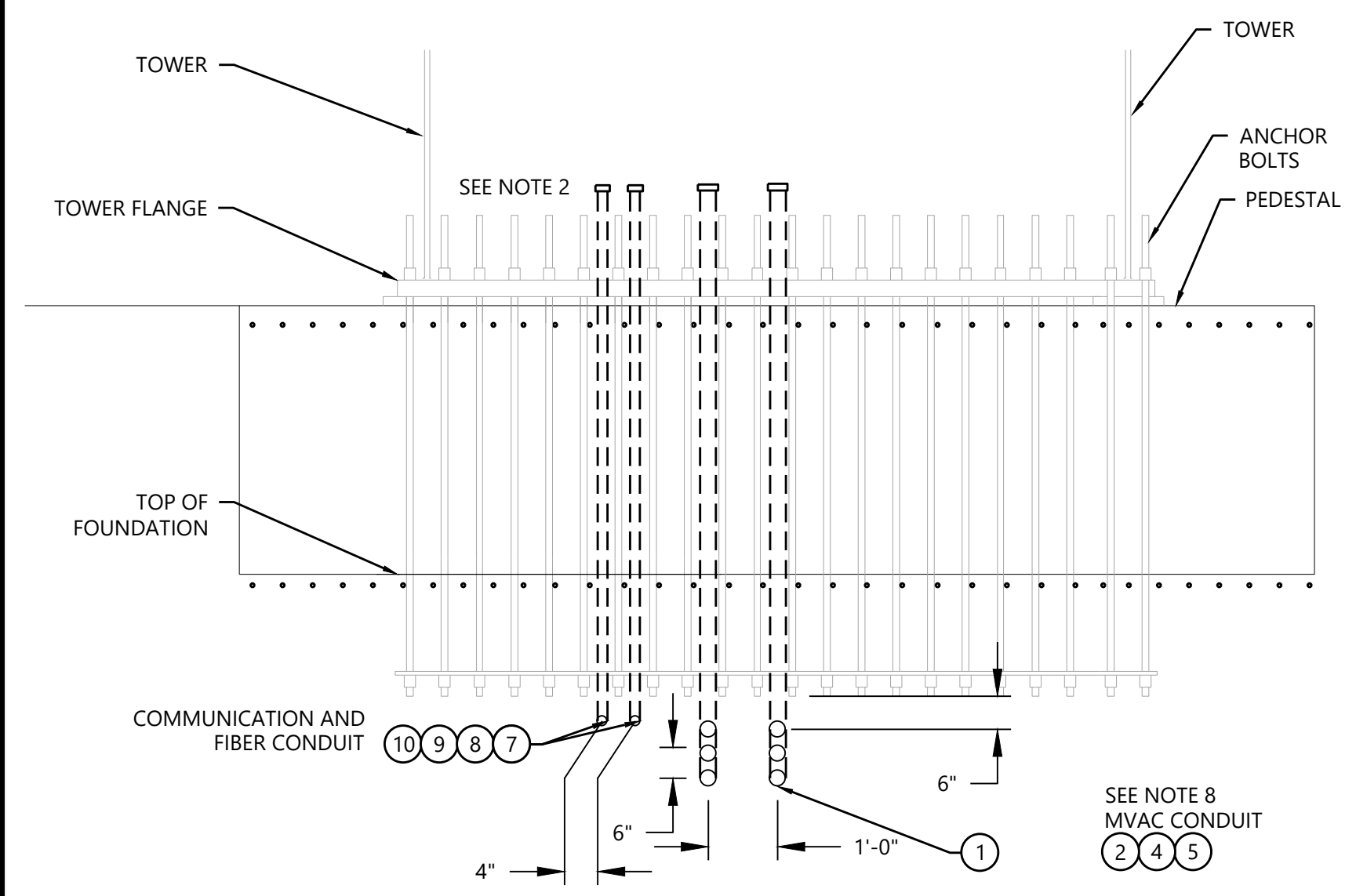
- PEDESTAL DESIGN IS SHOWN FOR PERMIT REFERENCE ONLY AND WILL BE UPDATED ONCE TURBINE FOUNDATIONS HAVE BEEN DESIGNED BY OTHERS.
- REFER TO TURBINE MANUFACTURER INSTALLATION MANUAL FOR ADDITIONAL DETAILS.
- CONDUITS TO BE FIELD ROUTED THROUGH REBAR INTO CONDUIT INSTALLED AREA. CONDUITS SHALL EXTEND 6" ABOVE THE PEDESTAL FLOOR, AND WILL BE FINISHED WITH BELL-ENDS TO ENSURE CABLES ARE NOT DAMAGED DURING THE PULL.
- CONTRACTOR SHALL USE A SEALANT TO SEAL CONDUIT. CAP CONDUIT DURING CONSTRUCTION.
- REBAR SHALL NOT BE PLACED BETWEEN POWER CONDUITS. SEE FOUNDATION DESIGN DRAWINGS FOR STRUCTURAL DETAILS RELATED TO CONDUIT PENETRATION.
- EXACT LOCATION OF CONDUIT STUB-OUTS INSIDE THE TOWER SHALL BE COORDINATED WITH TURBINE VENDOR TO MATCH PLACEMENT OF SWITCHGEAR, GROUNDING BAR, AND FIBER TERMINAL LOCATION.
- CONTRACTOR SHALL OBSERVE CABLE BENDING RADIUS REQUIREMENTS.
- CONDUITS FOR CABLES CLOSEST TO SUBSTATION MUST BE INSTALLED CLOSEST TO THE SWITCHGEAR BUSHINGS.
- CONTRACTOR TO VERIFY CABLE PHASE SEQUENCE IN RELATION TO SWITCHGEAR PHASE SEQUENCE BEFORE INSTALLATION INTO CONDUIT. DIRECTION OF CONDUIT ENTRANCE AND EXIT IS REPRESENTATIVE. CONTRACTOR MAY ADJUST POSITION OF CONDUITS AS DICTATED BY MEDIUM VOLTAGE CABLE TRENCHING PLAN.
- MET TOWER FIBER CONDUIT AND MET TOWER POWER CONDUIT REQUIRED AT T-15 AND T-7. ADD MATERIALS ACCORDINGLY.
- SEE DETAIL 3 FOR CABLES ENTERING AND LEAVING THE FOUNDATION.
- SEE FOUNDATION DRAWINGS FOR FOUNDATION INFORMATION AND DIMENSIONS.
- REFERENCE VENDORS AND PART #'S ARE SHOWN. EQUIVALENT PARTS FROM OTHER VENDORS MAY BE SUBMITTED FOR APPROVAL.



MATERIALS LIST					
ITEM	QTY	UOM	DESCRIPTION	MANUF. OR EQUAL	PART #
1	AR	EA	3.5" PVC CONDUIT, SCH. 40, W. END BELL, 10 FT	CARLON	49014-010
2	AR	EA	3.5" PVC CONDUIT, SCH. 40, 90 DEGREE ELBOW, 48" RADIUS	CARLON	UA9HM
3	AR	EA	3.5" PVC CONDUIT, SCH. 40, 30 DEGREE ELBOW, 48" RADIUS	CARLON	UA6HM
4	AR	EA	3.5" PVC CONDUIT, SCH. 40, END BELL	CARLON	E997M
5	AR	EA	3.5" PVC CONDUIT, SCH. 40, COUPLER	CARLON	E940M
6	AR	EA	2" PVC CONDUIT, SCH. 40, W. END BELL, 10 FT	CARLON	49011-010
7	AR	EA	2" PVC CONDUIT, SCH. 40, 90 DEGREE ELBOW, 24" RADIUS	CARLON	UA9JB
8	AR	EA	2" PVC CONDUIT, SCH. 40, 30 DEGREE ELBOW, 24" RADIUS	CARLON	UA7JB
9	AR	EA	2" PVC CONDUIT, SCH. 40, END BELL	CARLON	E997J
10	AR	EA	2" PVC CONDUIT, SCH. 40, COUPLER	CARLON	E940J
11	AR	EA	1.5" PVC CONDUIT, SCH. 40, W. END BELL, 10 FT	CARLON	49010-010
12	AR	EA	1.5" PVC CONDUIT, SCH. 40, 90 DEGREE ELBOW, 24" RADIUS	CARLON	UA9AHB
13	AR	EA	1.5" PVC CONDUIT, SCH. 40, 30 DEGREE ELBOW, 24" RADIUS	CARLON	UA7HB
14	AR	EA	1.5" PVC CONDUIT, SCH. 40, END BELL	CARLON	E997H
15	AR	EA	1.5" PVC CONDUIT, SCH. 40, COUPLER	CARLON	E940H

1 Tower Foundation- Top Conduit View
 NTS

2 Turbine Conduit Entry Detail
 NTS



3 Pedestal Conduit Section View
 NTS

4 Tower Foundation - Side Conduit View
 NTS

Hoffman Falls Wind Project
 Madison County, New York

Foundation Conduit Details

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DATE: 01/26/2024
 SHEET: E7002
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1-26-2024

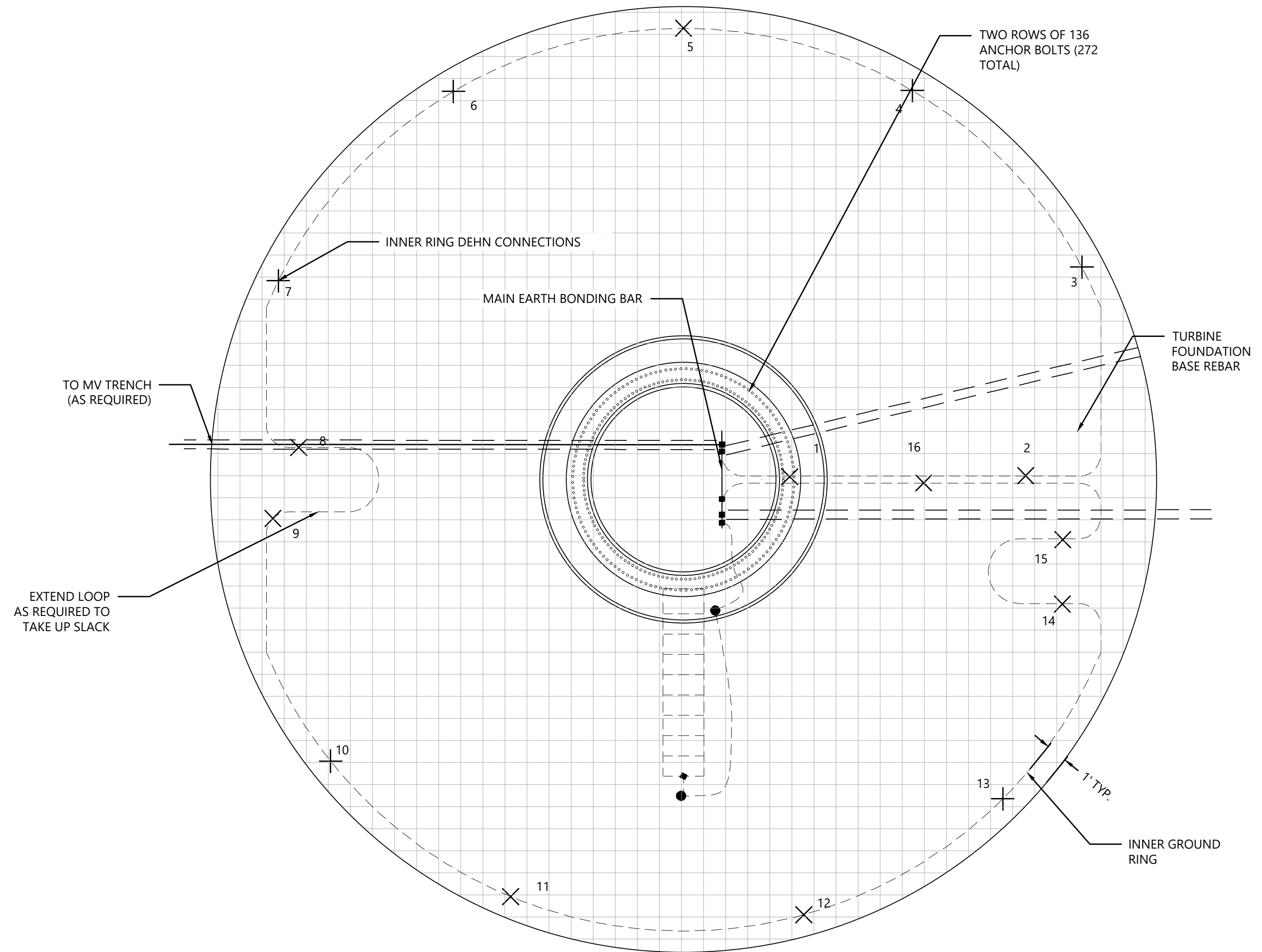
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MATERIALS LIST					
ITEM	QTY	UOM	DESCRIPTION	MAN. OR EQUAL	PART #
1	A/R	FT	CONDUCTOR, 1/0 AWG, STR, CU, BARE		
2	A/R	EA	COMPRESSION CONNECTOR, 1/0 AWG TO 1/0	BURNDY	YGHC2626
3	A/R	EA	DEHN CONNECTION TERMINAL	DEHN	
4	A/R	EA	LUG, 1-HOLE, 1/0 AWG	BURNDY	YA25TC38

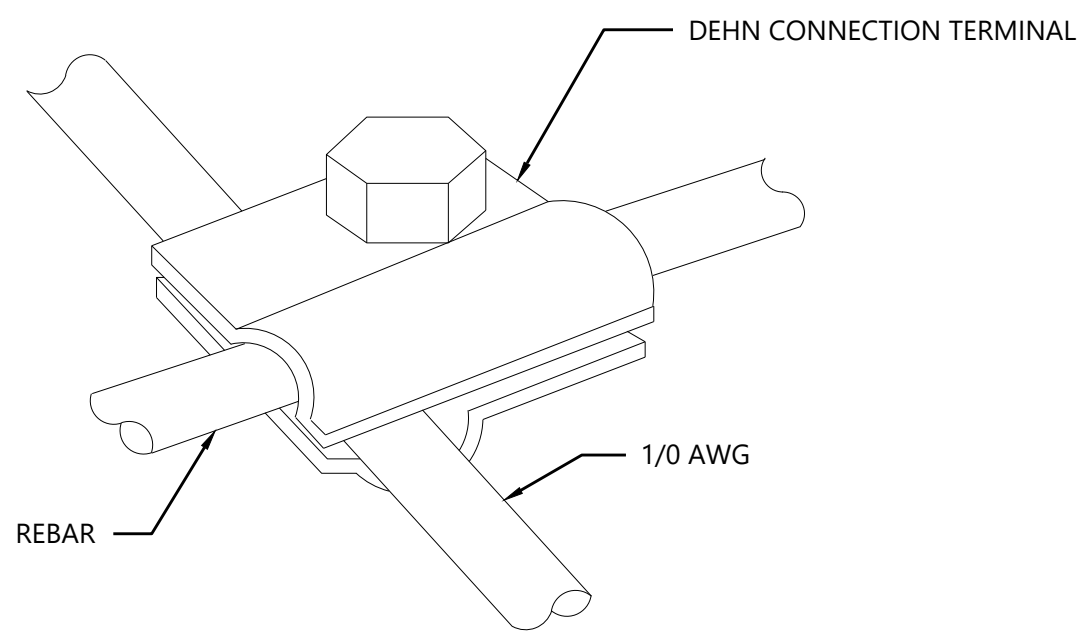
LUG MATERIALS LIST				
ITEM	QTY	UOM	DESCRIPTION	
1	A/R	EA	M10 NUT	
2	A/R	EA	M10 BOLT	
3	A/R	EA	SPRING WASHER	
4	A/R	EA	FENDER WASHER	
5	A/R	EA	1 HOLE, 1/0 CU LUG	

NOTES:

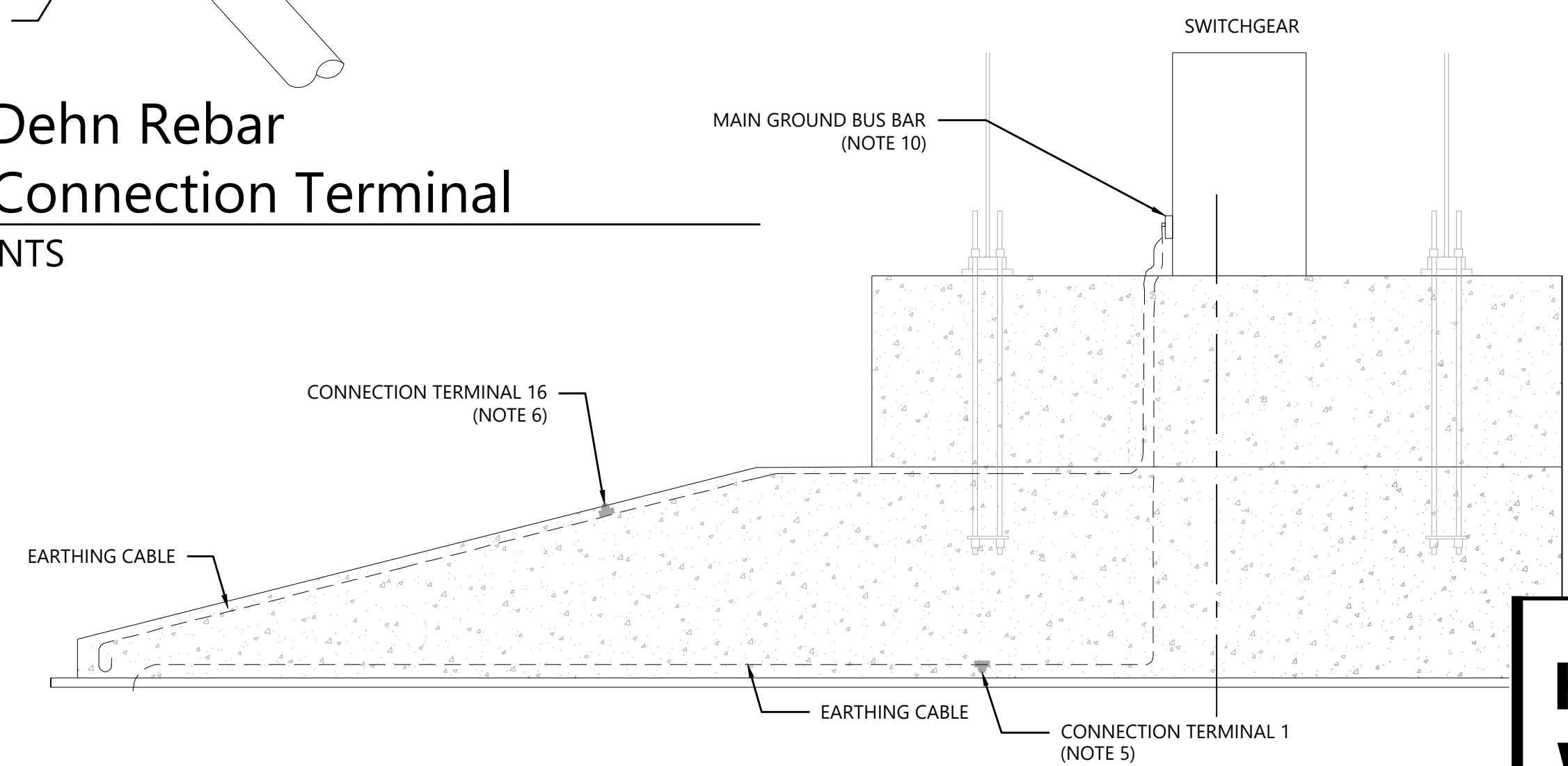
- PEDESTAL DESIGN IS SHOWN FOR PERMIT REFERENCE ONLY AND WILL BE UPDATED ONCE TURBINE FOUNDATIONS HAVE BEEN DESIGNED BY OTHERS.
- GROUND CONDUCTOR WITHIN THE FOUNDATION SHALL BE INSTALLED ALONG THE INNER SIDE OF THE EDGE OF THE REINFORCEMENT STEEL AND SHALL BE BONDED TO THE REBAR CAGE WITH GROUND CLAMPS AT THE 16 LOCATIONS IDENTIFIED. AT ALL OTHER LOCATIONS, GROUND CONDUCTOR SHALL BE SECURED TO THE REAR CAGE WITH STEEL WIRE TIES AT EVERY CROSSING, WHICH SHALL NOT EXCEED SIX INCHES.
- REBAR GROUND CLAMPS SHALL BE LISTED FOR EMBEDMENT IN CONCRETE.
- THE CONNECTION TERMINALS ARE MARKED AND NUMBERED 1 TO 16. STARTED AT ONE END, INSTALL THE CONNECTION TERMINAL EVERY 16.5 FEET ALONG THE GROUNDING CONDUCTOR. INSTALL THE CONNECTION TERMINALS NUMBERED 1 TO 15 FIRST. CONNECTION TERMINAL NUMBER 16 MUST BE INSTALLED ALONG THE UPPER LAYER OF THE REINFORCEMENT STEEL.
- ANY EXCESS GROUNDING SHALL NOT BE CUT OFF. IT MUST BE DISTRIBUTED INSIDE THE STEEL REINFORCEMENT SHOWN IN THE DRAWING AS SLACK AND TIED TO ALL STEEL REINFORCEMENT CROSSINGS.
- TWO TRENCH GROUND CONDUCTORS SHALL ENTER THE TURBINE. BOTH TERMINATED ONTO MAIN GROUNDING BAR. GROUNDING CONDUCTORS FROM DOWN-TOWER CABLE NOT SHOWN FOR CLARITY. GROUNDS TO BE CONNECTED TO THE MAIN GROUNDING BUS BAR PER WORK INSTRUCTIONS.
- IF 90 DEGREES OR GREATER SEPARATION OF INCOMING AND OUTGOING MV/TRENCH GROUND CONDUITS CANNOT BE MAINTAINED, A SEPARATE 80 M 7#7 CU EARTHING WIRE EXITING AT MINIMUM 90 DEGREES FROM ONE OF THE MV TRENCH GROUNDS MUST BE INSTALLED AND CONNECTED TO MAIN EARTHING BAR. THIS ADDITIONAL EARTHING WIRE ALSO REQUIRED FOR END OF LINE TURBINES.
- MAIN GROUND BAR TO BE LOCATED AT BASE FRAME OF SWITCHGEAR, PER TURBINE DOCUMENTS.
- GROUND CONDUCTOR WITHIN TOWER BASEMENT SHALL BE BONDED TO BOTH THE MAIN GROUND BUS BAR (AT SWITCHGEAR BASE) AND TRENCH GROUND CONDUCTOR(S), AS SHOWN.
- GROUND LOOP RESISTANCE TO REMOTE EARTH TO BE MEASURED USING A THREE POINT "FALL OF POTENTIAL" METHOD AT EACH WIND TURBINE LOCATION PRIOR TO INTERCONNECTION OF EARTHING SYSTEM BETWEEN WIND TURBINES. NOTIFY OWNER IF RESULTS ARE MORE THAN FIVE OHMS.
- ALL FOUNDATION EARTHING MATERIALS ARE PROVIDED BY TURBINE MANUFACTURER, WITH THE EXCEPTION OF THE COMPRESSION FITTINGS.
- SEE FINAL FOUNDATION DRAWINGS FOR FOUNDATION INFORMATION AND DIMENSIONS.
- ALL GROUND CONDUCTORS SHALL BE EQUIPPED WITH A HEAT SHRINK SLEEVE WHERE THEY EMERGE FROM CONCRETE.
- REFERENCE VENDORS AND PART #'S ARE SHOWN. EQUIVALENT PARTS FROM OTHER VENDORS MAY BE SUBMITTED FOR APPROVAL.

LEGEND:

- ✕ CONNECTION TERMINALS (16X PER FOUNDATION)
- COMPRESSION LINE CONNECTIONS
- COMPRESSION LUG CONNECTIONS

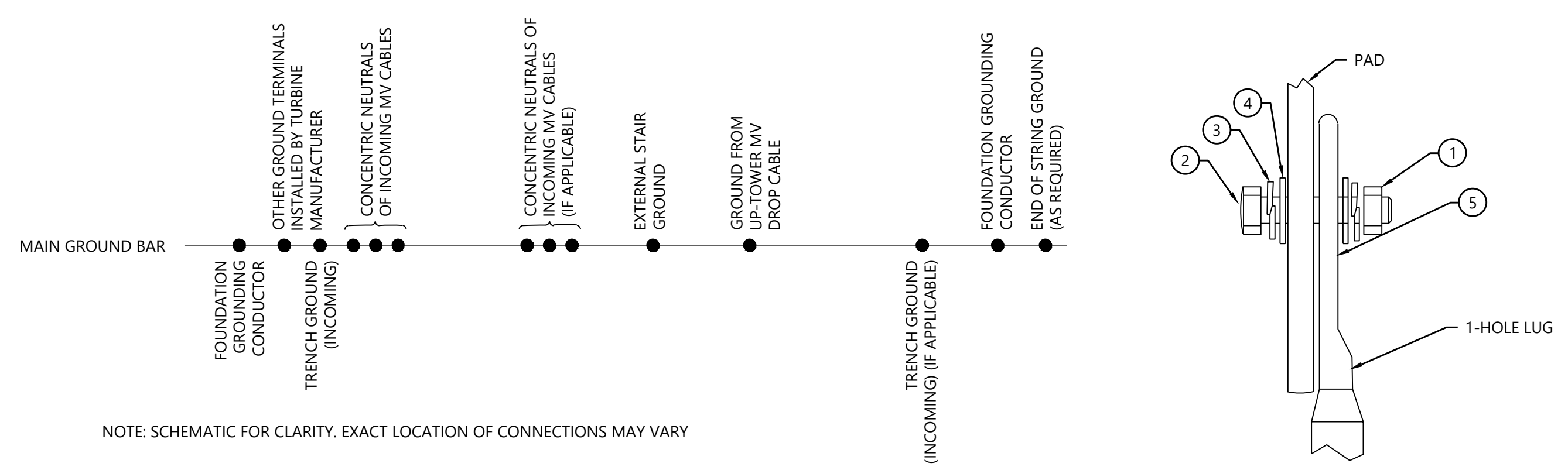


2 Dehn Rebar Connection Terminal
 NTS



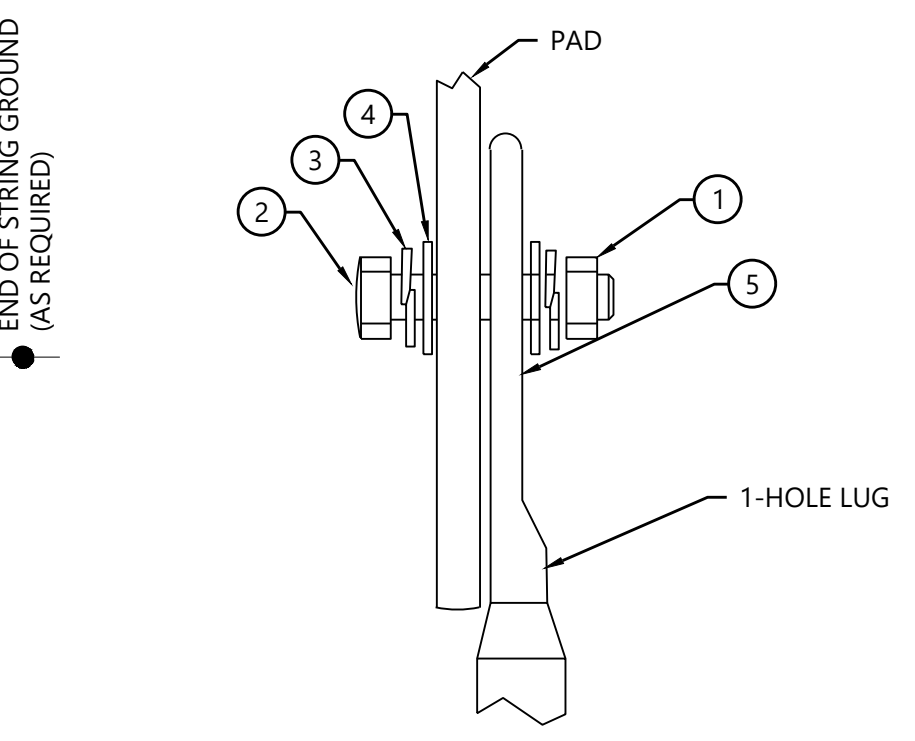
5 Foundation Section View
 NTS

1 Foundation With Ground Conductor Installed
 NTS



NOTE: SCHEMATIC FOR CLARITY. EXACT LOCATION OF CONNECTIONS MAY VARY

3 Main Ground Bar Connections
 NTS



4 Main Ground Lug Detail
 NTS

Hoffman Falls Wind Project
 Madison County, New York

Foundation Grounding Details

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DATE: 01/26/2024 REV:
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1-26-2024

PREPARED FOR:

Hoffman Falls Wind LLC

90 State Street, Suite 700
 Albany, NY 12207

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	09/08/2023	30% ELECTRICAL DESIGN	JON	GVH	DNS
B	01/26/2024	60% ELECTRICAL DESIGN	JON	GVH	DNS

NOTES:

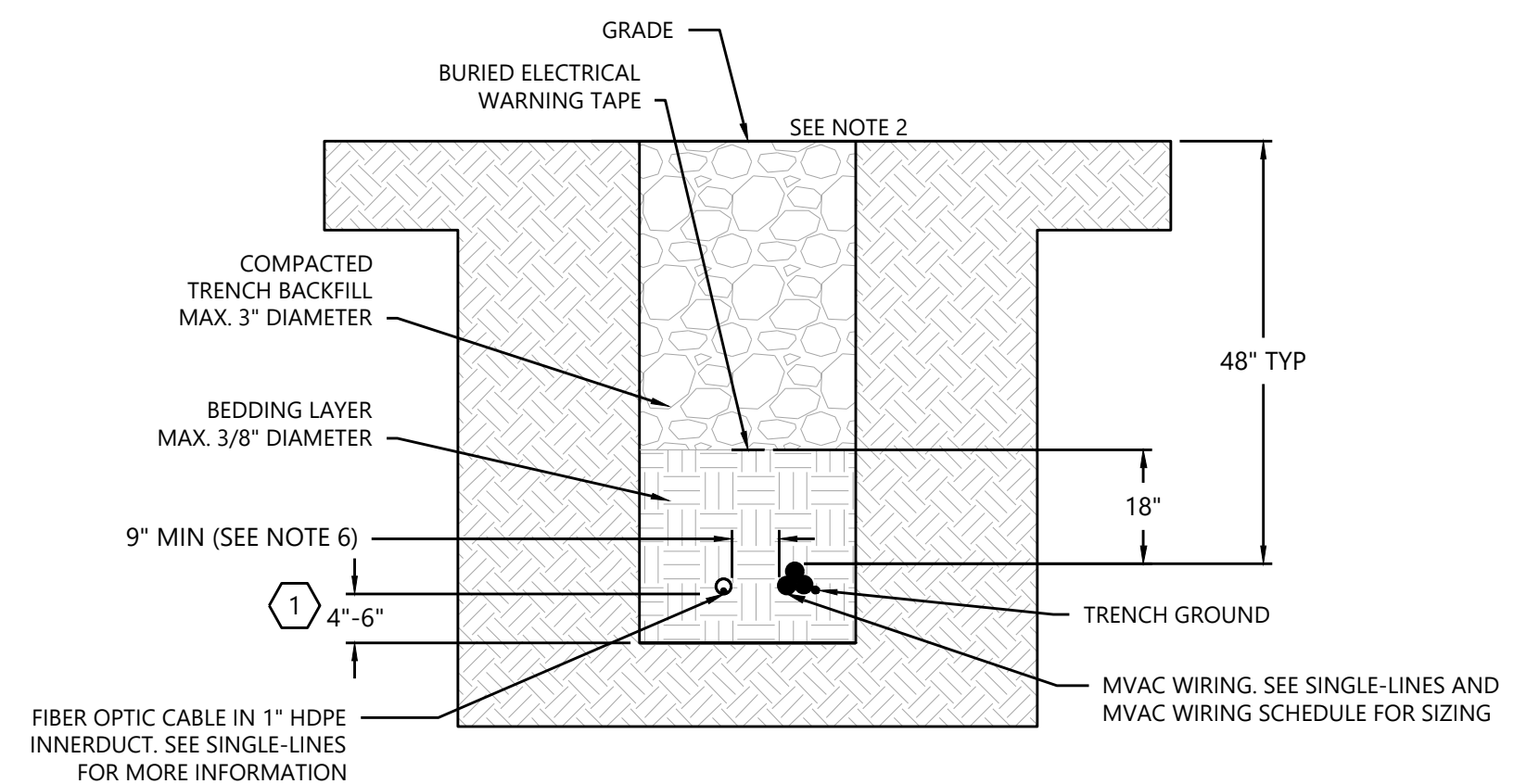
- BEDDING LAYER IS DEFINED AS THE MATERIAL THAT SPANS FROM 4"-6" BELOW BOTTOM OF CABLE TO 18" ABOVE TOP OF CABLE. IN ORDER TO ENSURE PROTECTION OF THE CABLES, THE MATERIAL INSTALLED IN THE BEDDING LAYER IS REQUIRED TO BE 3/8" DIAMETER OR LESS. SEE DETAIL 5 FOR REFERENCE.
- DESIGN BASIS THERMAL RESISTIVITY FOR NATIVE SOIL, COMPACTED TO 90%: 120 CM/W
- COORDINATE WITH SHEETS E1100-E1115 FOR MVAC CABLE ROUTING. REFER TO MVAC WIRING SCHEDULES FOR CABLE QUANTITIES AND SIZES.
- COORDINATE WITH SHEETS E6000 FOR FIBER OPTIC CABLE ROUTING.
- BASED ON AMBIENT SOIL TEMPERATURE, THERMAL RESISTIVITY AND PERCENT MOISTURE RETENTION AS DETERMINED BY GEOTECHNICAL REPORT AND NOTED IN AMPACITY REPORT.
- MEDIUM VOLTAGE TRENCHES MAY CONTAIN MULTIPLE FIBER OPTIC CABLES.
- CONTRACTOR TO VERIFY WITH LOCAL AUTHORITIES FOR ANY SPECIFIC BORING CLEARANCES AND REVIEW ANY PROPOSED CHANGES WITH THE ENGINEER OF RECORD BEFORE DOING THE WORK.
- CABLE INSTALLATION THROUGH TRENCHING METHOD DEPICTED.

EARTHWORK:

- GENERAL
 - THIS SECTION DESCRIBES WORK RELATED TO EARTHWORK FOR COLLECTION TRENCHING.
 - EARTHWORK & BACKFILL WITHIN 5 FEET OF THE WTG FOUNDATION SHALL BE COMPACTED PER THE STRUCTURAL FOUNDATION BACKFILL REQUIREMENTS PROVIDED BY OTHERS.
 - EARTHWORK & BACKFILL WITHIN AN AREA EXTENDING 5 FEET FROM THE EDGE OF ROAD SHALL BE COMPACTED TO THE CIVIL PLAN SPECIFICATIONS. SEE WESTWOOD CIVIL PLAN SHEETS FOR ADDITIONAL DETAILS.
- SUBMITTALS
 - THE FOLLOWING MATERIAL SUBMITTALS ARE REQUIRED FOR REVIEW BY THE ENGINEER OF RECORD (EOR) PER SPECIFIC PRODUCT AND PRE-PLACEMENT:
 - ON-SITE BORROW SOURCE FOR BEDDING AND BACKFILL MATERIAL
 - IMPORTED BEDDING AND BACKFILL MATERIAL
- MATERIALS
 - TRENCH BEDDING
 - BEDDING TO CONSIST OF NATIVE SOIL OR APPROVED IMPORT MATERIAL THAT IS FREE OF LARGE SHARP ROCKS, DEBRIS, ORGANIC MATERIALS, OR OTHER MATERIAL CAPABLE OF DAMAGING CABLES.
 - BEDDING MATERIAL SHALL BE 3/8 INCH DIAMETER OR LESS. SEE DETAIL 5 FOR REFERENCE.
 - TRENCH BACKFILL
 - BACKFILL TO TO CONSIST OF NATIVE SOIL OR IMPORT MATERIAL THAT IS FREE OF LARGE SHARP ROCKS, DEBRIS, ORGANIC MATERIALS, OR OTHER MATERIAL CAPABLE OF DAMAGING CABLES.
 - BACKFILL MATERIAL SHALL BE SCREENED TO REMOVE PARTICLES LARGER THAN 3 INCHES.
- CONSTRUCTION
 - GENERAL TRENCHING
 - ONLY ONE TRENCH SHALL BE OPEN AT A TIME TO ENSURE SIDE SLOPE STABILITY.
 - SEE DETAILS 1-5 FOR TRENCH DEPTH SPECIFICATIONS. BOTTOM OF TRENCH PRIOR TO BEDDING PLACEMENT SHALL CONSIST OF NON-NATIVE COMPACTED MATERIAL.
 - TRENCH BEDDING AND BACKFILL
 - FOLLOWING GENERAL TRENCHING, 4-6 INCHES OF BEDDING MATERIAL SHALL BE PLACED AT THE BOTTOM OF THE TRENCH.
 - PER DETAILS 1-3, MVAC CABLE AND TRENCH GROUND SHALL BE PLACED ON THE BEDDING.
 - FOLLOWING MVAC CABLE AND FIBER PLACEMENT, 18 INCHES OF BEDDING MATERIAL SHALL BE PLACED ABOVE THE CABLES AND COMPACTED IN LIFTS WITH MAXIMUM UN-COMPACTED THICKNESS OF 8 INCHES.
 - FOLLOWING THE FINAL BEDDING PLACEMENT AND COMPACTION, TRENCH BACKFILL MATERIAL SHALL BE PLACED OVER THE WARNING TAPE. FINAL BACKFILL MATERIAL SHALL BE COMPACTED TO ELIMINATE VOIDS WITH ADDITIONAL BACKFILL TO ALLOW FOR SETTLING.

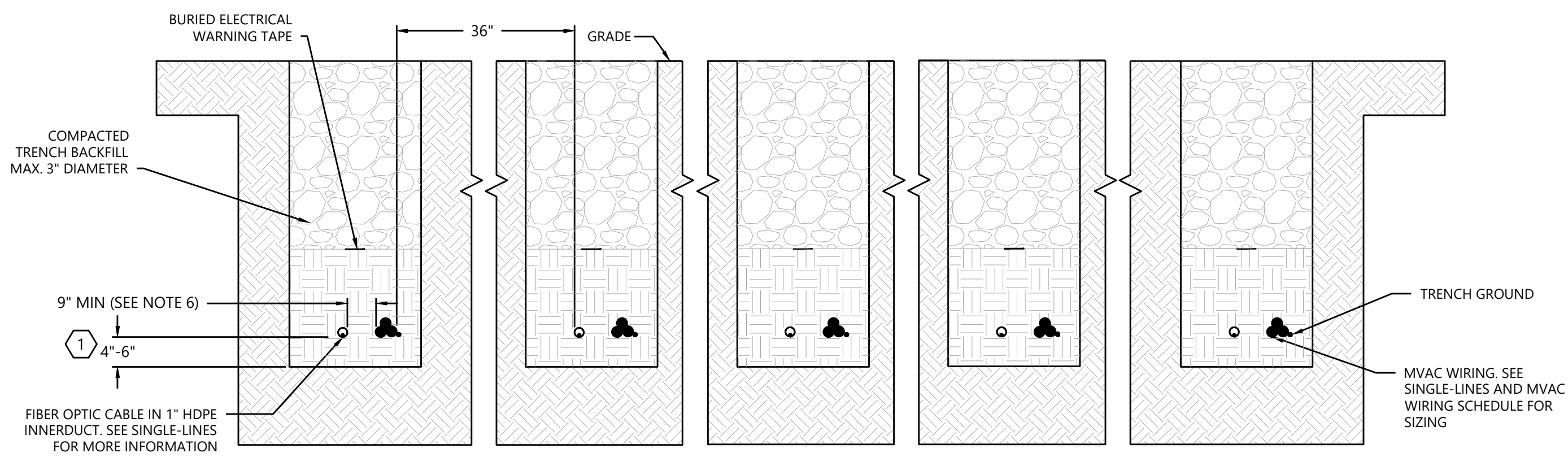
KEYNOTES:

- IF VISUAL INSPECTION INDICATES THAT NO GRAVEL LARGER THAN 3/8 INCH IS PRESENT AT THE LEVEL OF THE BOTTOM OF THE CABLE, CONSTRUCTION ITEM 4.b.1 IS NOT REQUIRED.



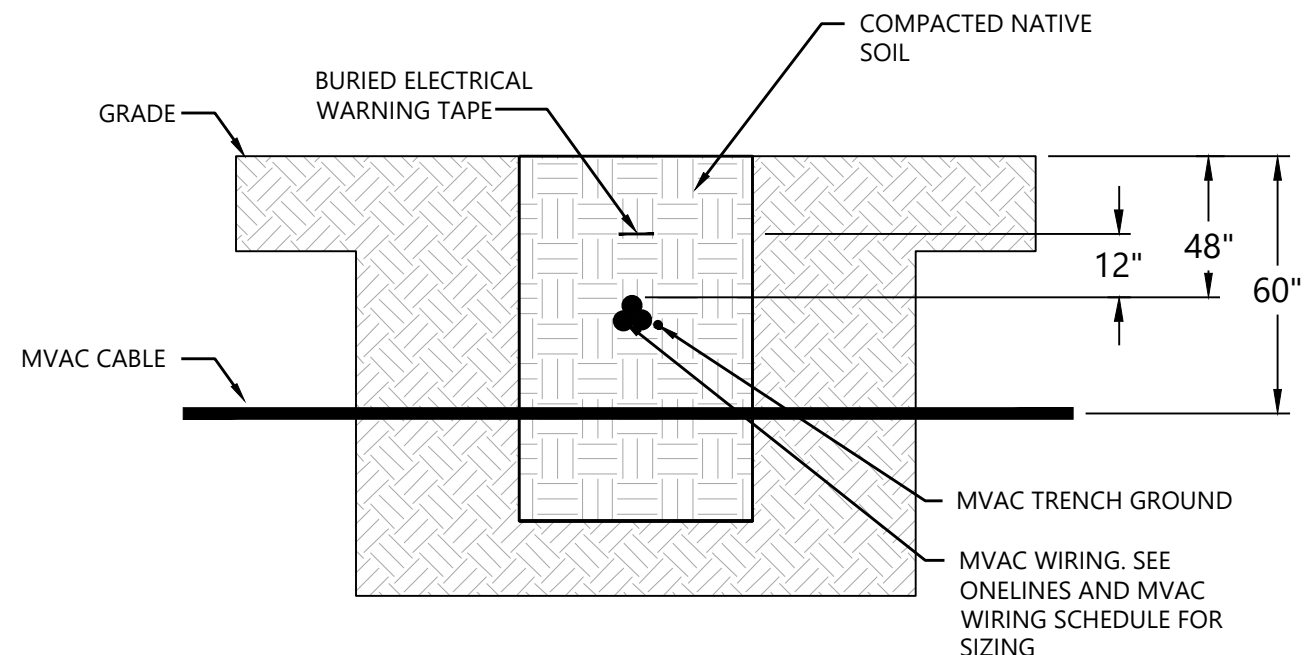
1 MVAC & Fiber Optic Trench

NTS



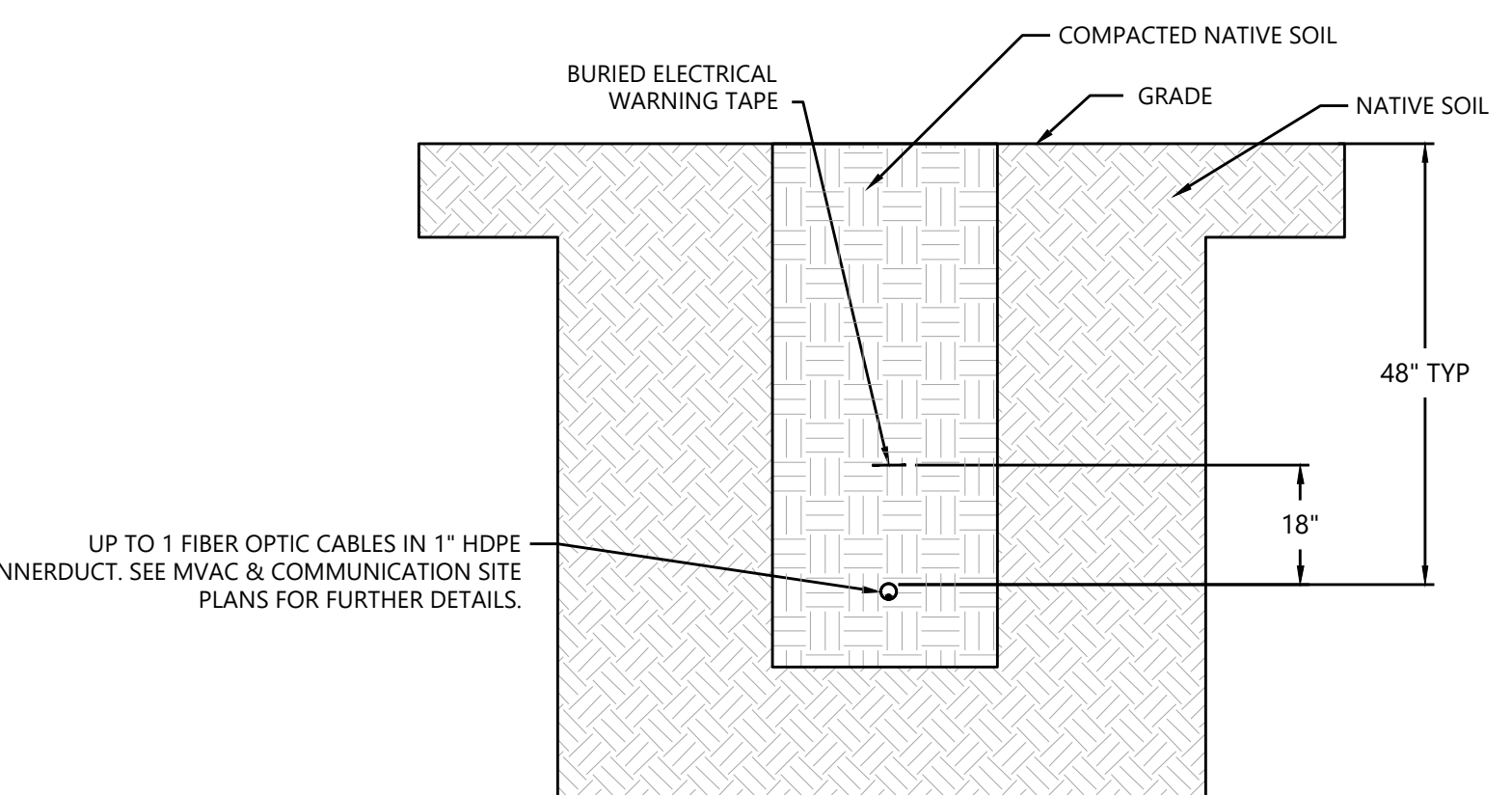
2 MVAC & Fiber Optic Trench - 5 Circuits or Less

NTS



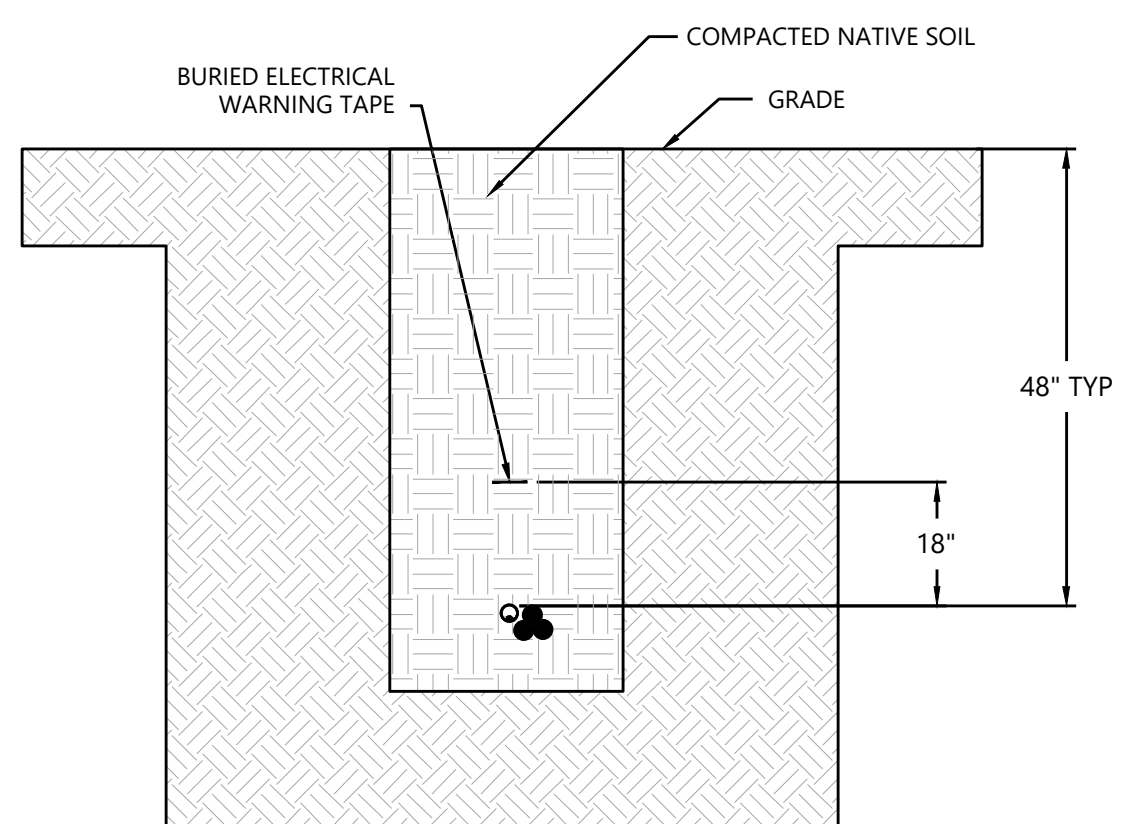
3 Typical MVAC Crossing Detail

NTS



4 Fiber Optic Trench

NTS



5 LVAC Trench (To MET Tower)

NTS

Table 1 : Cable Trench Backfill Testing Requirements

	Location	Required Test	ASTM Standard	Frequency	Specified Criteria
Trench	Trench Backfill and Bedding	Moisture Density Test (Nuclear Density)	ASTM D-2922	1 test per every 500 LF of trench with 18" of cover over cables/conduit and on each subsequent compacted 12" thick lift	90% of maximum dry density, -2% to +5% of optimum moisture content
		Standard Proctor	ASTM D-698	1 per major soil type	
		Standard Proctor	ASTM D-698	1 per major soil type	
		Sieve Analysis with Hydrometer	ASTM D-422	1 per major soil type	
	Trench Bedding (import only)	Thermal Resistivity Dryout Curve	ASTM D-5334	1 per major soil type	Submit results to Westwood for approval

Hoffman Falls Wind Project

Madison County, New York

Trench Details

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DATE: 01/26/2024 REV:
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1-26-2024

PREPARED FOR:

Hoffman Falls Wind LLC

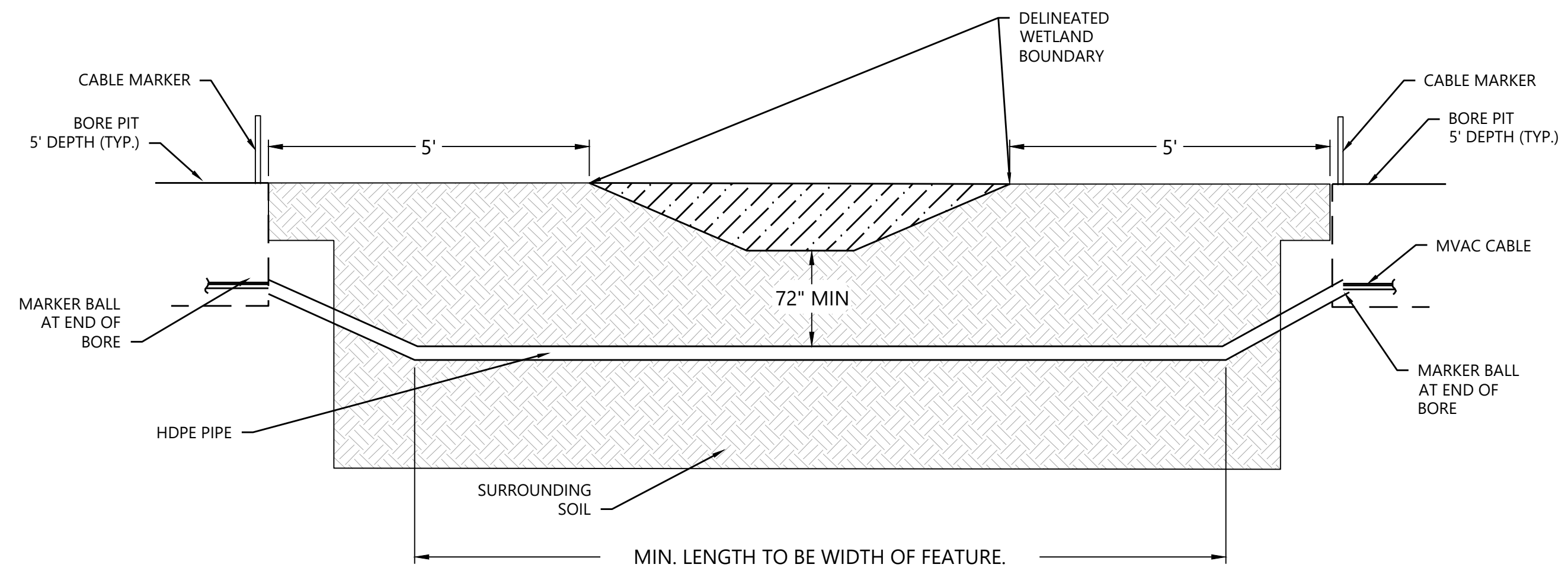
90 State Street, Suite 700
Albany, NY 12207

REVISIONS:

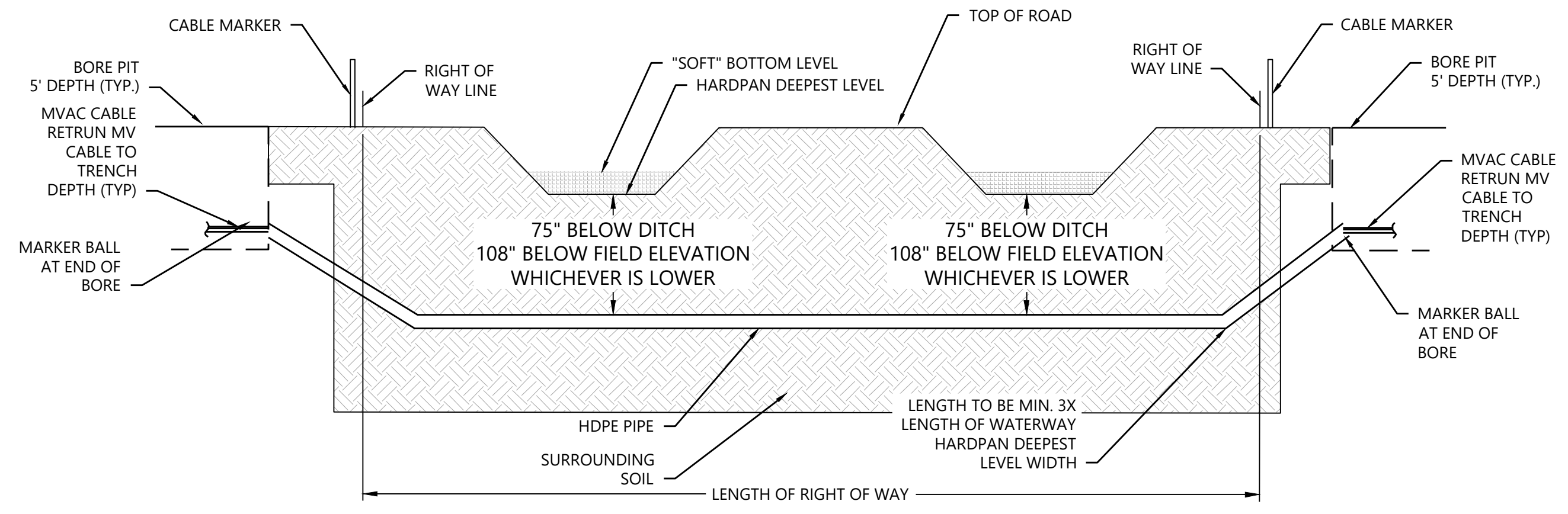
#	DATE	COMMENT	BY	CHK	APR
A	09/08/2023	30% ELECTRICAL DESIGN	JON	GVH	DNS
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NOTES:

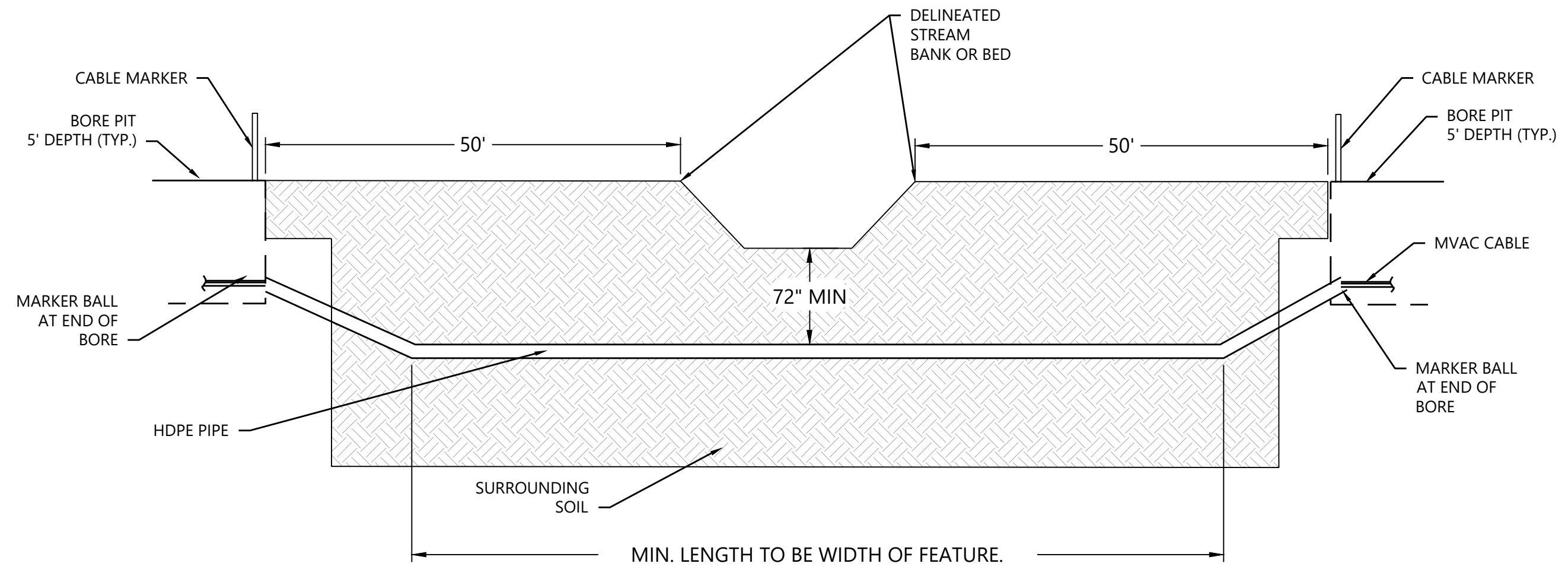
1. CABLE MARKERS TO BE PLACED AT TOP OF SLOPES.
2. DEPTH OF BORE TO BE 72" MINIMUM BELOW WETLAND OR STREAM, OR BELOW HARDPAN BOTTOM OF ROAD SHOULDER.
3. CENTER-TO-CENTER SPACING OF PARALLEL BORES TO BE 10' MINIMUM AT A MAXIMUM DEPTH OF 11'.
4. BORE LENGTH TO BE ENTIRE RIGHT-OF-WAY OR BOUNDARY OF FEATURE.
5. SLOPE OF BORE INTO AND OUT OF HORIZONTAL SECTION TO BE 1:3 SLOPE MINIMUM.
6. SEE E7700 FOR SITE BORE SCHEDULE.



1 Typical MVAC Crossing - Wetland Bore Section View
NTS



2 Road Crossing Detail Bore Section View
NTS



3 Typical MVAC Crossing - Stream Bore Section View
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Hoffman Falls
Wind Project
Madison County, New York

Bore Details

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NOTES:

- CROSSED FEATURE LENGTH COLUMN REPRESENTS POINT-TO-POINT DISTANCE OF FEATURES SHOWN ON MVAC SITE PLAN DRAWINGS THAT ARE CROSSED BY A BORE.
- BORE LENGTH COLUMN REPRESENTS THE HORIZONTAL LENGTH OF THE BORE SHOWN IN THE MVAC SITE PLAN DRAWINGS, NOT INCLUDING THE 20' BORE PITS ON EITHER SIDE OF THE BORE.



1-26-2024

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90 State Street, Suite 700
 Albany, NY 12207

REVISIONS:

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Hoffman Falls Wind - Crossing Schedule									
Crossing ID	Circuit	Bore Type	Crossing Conduit Size (in)	Conductor Location Code	Cable Size	Crossed Feature Length (ft)	Bore Length (ft)	Boring Coordinates (Substation Side of Bore) [Northing, Easting]	Boring Coordinates (Non-Substation Side of Bore) [Northing, Easting]
DB1-1	UMV-1	Road Crossing	8	F1.MV-SUB-JB-1A	1250 KCMIL	66	72	1043499.1721, 1043499.1721	1043511.8353, 1081385.291
DB1-2	UMV-1	Road Crossing	8	F1.MV-JB-1A-JB-1B	1000 KCMIL	116	221	1042394.8283, 1075197.8514	1042365.6172, 1074978.4847
DB1-3	UMV-1	Wetland Crossing	8	F1.MV-JB-1A-JB-1B	1000 KCMIL	563	616	1042359.9177, 1074935.6834	1042339.032, 1074320.1479
DB1-4	UMV-1	Wetland Crossing	8	F1.MV-JB-1A-JB-1B	1000 KCMIL	89	160	1042268.477, 1074216.5127	1042163.5659, 1074095.9726
DB1-5	UMV-1	Road Crossing	8	F1.MV-JB-1A-JB-1B	1000 KCMIL	61	66	1042126.2115, 1073815.9138	1042115.8101, 1073750.5989
DB1-6	UMV-1	Road Crossing	8	F1.MV-JB-1A-JB-1B	1000 KCMIL	67	66	1042041.6174, 1073739.0074	1041976.0811, 1073739.1579
DB1-7	UMV-1	Wetland Crossing	8	F1.MV-JB-1A-JB-1B	1000 KCMIL	11	112	1040910.639, 1073227.897	1040864.9563, 1073125.629
DB1-8	UMV-1	Wetland Crossing	6	F1.MV-JB-1B-T-2	4/0 AWG	103	368	1039038.5923, 1072092.2885	1038696.5121, 1072227.16
DB1-9	UMV-1	Road Crossing	6	F1.MV-JB-1B-T-2	4/0 AWG	65	67	1038646.5736, 1072259.4253	1038615.4417, 1072319.1651
DB2-1	UMV-2	Road Crossing	8	F2.MV-SUB-T-10	1250 KCMIL	66	73	1043469.6019, 1081450.7986	1043482.446, 1081378.9886
DB2-2	UMV-2	Wetland Crossing	8	F2.MV-T-10-JB-2A	1000 KCMIL	10	57	1047579.6692, 1075575.4698	1047636.248, 1075575.3212
DB2-3	UMV-2	Road Crossing	8	F2.MV-T-10-JB-2A	1000 KCMIL	82	117	1048060.1392, 1073613.3316	1048061.2779, 1073495.8644
DB2-4	UMV-2	Wetland Crossing	8	F2.MV-T-10-JB-2A	1000 KCMIL	8	131	1048100.8369, 1073422.3361	1048102.2024, 1073291.4702
DB2-5	UMV-2	Wetland Crossing	8	F2.MV-JB-2A-T-12	500 KCMIL	180	208	1048573.0753, 1072047.108	1048776.3172, 1072004.5697
DB2-6	UMV-2	Wetland Crossing	8	F2.MV-JB-2A-T-12	500 KCMIL	332	371	1049482.061, 1072023.0703	1049848.406, 1072083.0613
DB2-7	UMV-2	Wetland Crossing	6	F2.MV-T-12-JB-2B	4/0 AWG	5	105	1053097.7465, 1072477.183	1053202.6997, 1072478.0796
DB2-8	UMV-2	Road Crossing	6	F2.MV-T-12-JB-2B	4/0 AWG	75	76	1053301.4993, 1072479.5913	1053377.7764, 1072479.7522
DB2-9	UMV-2	Wetland Crossing	6	F2.MV-T-12-JB-2B	4/0 AWG	14	133	1053484.5043, 1072479.4326	1053617.7675, 1072479.0649
DB2-10	UMV-2	Wetland Crossing	6	F2.MV-T-12-JB-2B	4/0 AWG	10	114	1053947.814, 1072478.036	1054061.6678, 1072477.6968
DB2-11	UMV-2	Road Crossing	6	F2.MV-JB-2B-T-24	4/0 AWG	50	69	1058429.412, 1072150.324	1058498.2517, 1072150.8615
DB3-1	UMV-3	Road Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	66	73	1043479.4749, 1081452.3974	1043492.3545, 1081380.6258
DB3-2	UMV-3	Wetland Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	10	57	1047579.7086, 1075590.4697	1047636.288, 1075590.5556
DB3-3	UMV-3	Road Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	64	117	1048070.0968, 1073613.6775	1048071.274, 1073496.2117
DB3-4	UMV-3	Wetland Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	113	131	1048115.7514, 1073422.5315	1048117.6069, 1073291.672
DB3-5	UMV-3	Wetland Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	196	207	1048576.1478, 1072061.7902	1048779.0835, 1072019.316
DB3-6	UMV-3	Wetland Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	338	371	1049479.6803, 1072037.6492	1049845.8715, 1072097.8445
DB3-7	UMV-3	Wetland Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	5	105	1053097.7822, 1072492.1831	1053202.7705, 1072493.0826
DB3-8	UMV-3	Road Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	75	76	1053301.3906, 1072494.4712	1053377.8206, 1072494.7474
DB3-9	UMV-3	Wetland Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	14	133	1053484.5485, 1072494.4277	1053617.5513, 1072494.027
DB3-10	UMV-3	Wetland Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	10	114	1053947.5996, 1072492.8686	1054061.4518, 1072492.6395
DB3-11	UMV-3	Road Crossing	8	F3.MV-SUB-T-15	1250 KCMIL	152	325	1060387.9129, 1066362.986	1060799.3823, 1066390.3601
DB3-12	UMV-3	Wetland Crossing	6	F3.MV-T-18-T-16	4/0 AWG	296	362	1062772.0063, 1064237.2664	1062597.637, 1063920.446
DB3-13	UMV-3	Wetland Crossing	6	F3.MV-JB-3A-T-13	4/0 AWG	533	708	1056467.3199, 1067401.4492	1056273.9004, 1066719.9865
DB4-1	UMV-4	Road Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	66	72	1043489.316, 1081454.1766	1043502.0381, 1081383.19
DB4-2	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	10	57	1047579.748, 1075605.4697	1047636.3268, 1075605.3211
DB4-3	UMV-4	Road Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	64	117	1048080.1335, 1073614.0262	1048081.2684, 1073496.5589
DB4-4	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	113	131	1048130.8343, 1073422.7291	1048132.5708, 1073291.4702
DB4-5	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	200	208	1048579.2207, 1072076.4719	1048782.4629, 1072033.9334
DB4-6	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	340	371	1049477.3103, 1072052.2098	1049843.4121, 1072112.643
DB4-7	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	5	105	1053097.8406, 1072507.1462	1053202.9494, 1072508.0874
DB4-8	UMV-4	Road Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	75	76	1053301.3775, 1072509.4736	1053377.8075, 1072509.7475
DB4-9	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	14	133	1053484.5928, 1072509.4275	1053617.5955, 1072508.9926
DB4-10	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	10	114	1053947.3775, 1072508.0375	1054061.234, 1072507.7053
DB4-11	UMV-4	Road Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	137	325	1060387.2614, 1066377.9758	1060798.7308, 1066405.3499
DB4-12	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	5	100	1064943.5353, 1064144.8469	1065005.2605, 1064066.1702
DB4-13	UMV-4	Road Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	65	66	1065643.5658, 1063992.2533	1065706.2598, 1064012.9265
DB4-14	UMV-4	Wetland Crossing	8	F4.MV-SUB-JB-4A	1250 KCMIL	1121	1900	1067223.3789, 1063926.1759	1069123.3812, 1063948.6408
DB4-15	UMV-4	Road Crossing	6	F4.MV-JB-4B-JB-4C	4/0 AWG	66	68	1072224.0563, 1064510.1194	1072291.5853, 1064514.5445
DB5-1	UMV-5	Road Crossing	8	F5.MV-SUB-T-5	1000 KCMIL	66	72	1043499.1721, 1081455.8655	1043511.8353, 1081385.291

Hoffman Falls Wind Project
 Madison County, New York

Crossing Schedule

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DATE: 01/26/2024
 SHEET: E7700
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