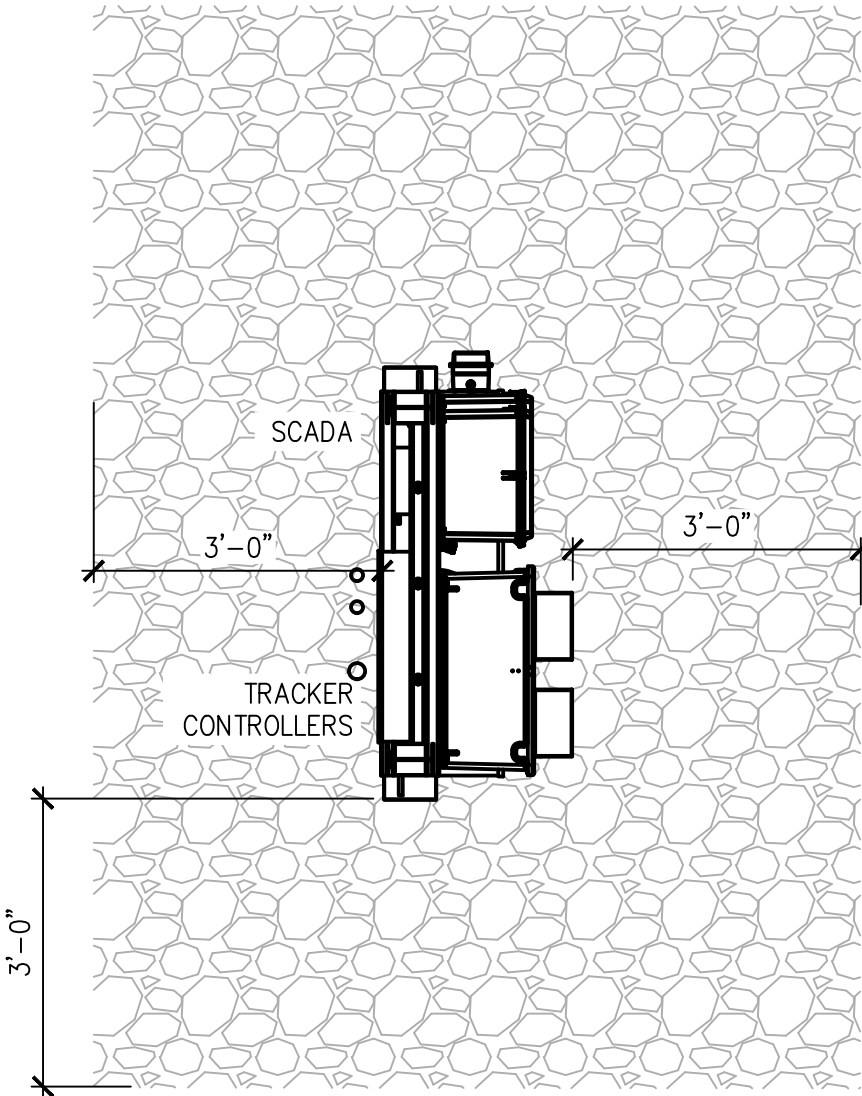
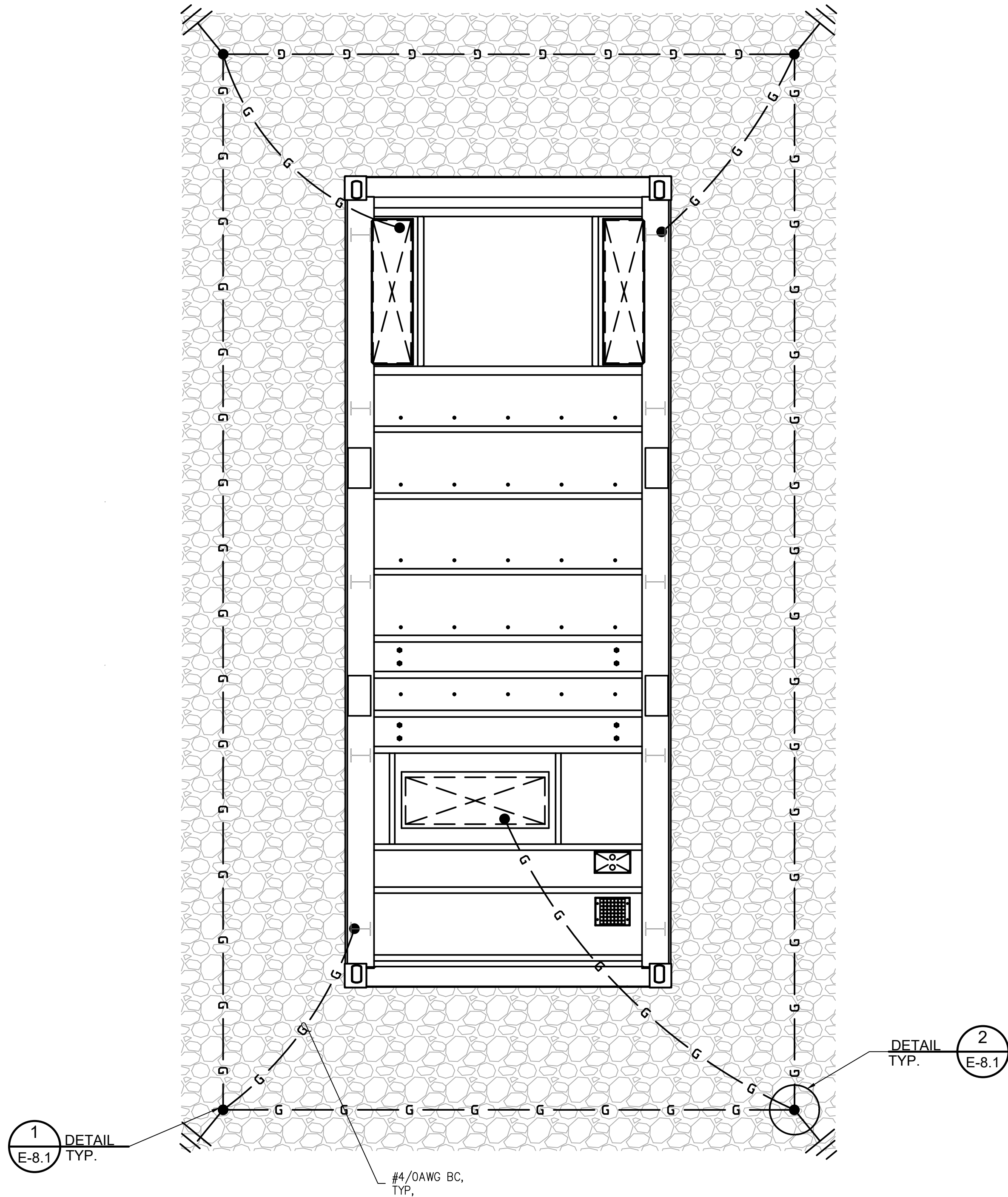


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1 TYPICAL PV BLOCK GROUNDING
E-8.2 SCALE: 1/2" = 1'-0"

GENERAL NOTES

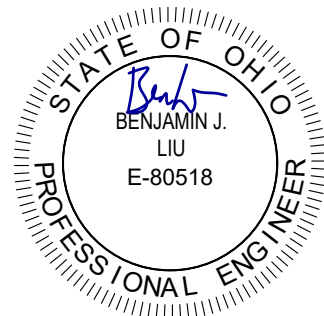
1. REFER TO GROUND GRID REPORT FOR FINAL DETAILS.
2. REFER TO STRUCTURAL DRAWINGS FOR EXACT SKID MEASUREMENTS, EQUIPMENT LOCATIONS, AND SKID COLUMN SIZES AND QUANTITIES.



CONSULTANT



STAMP/SEAL



REV #	DESCRIPTION	DATE
0	FOR PERMIT	04/22/2022
1	ISSUE FOR CONSTRUCTION	06/23/2022

PROJECT TITLE:
BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH

SHEET TITLE:

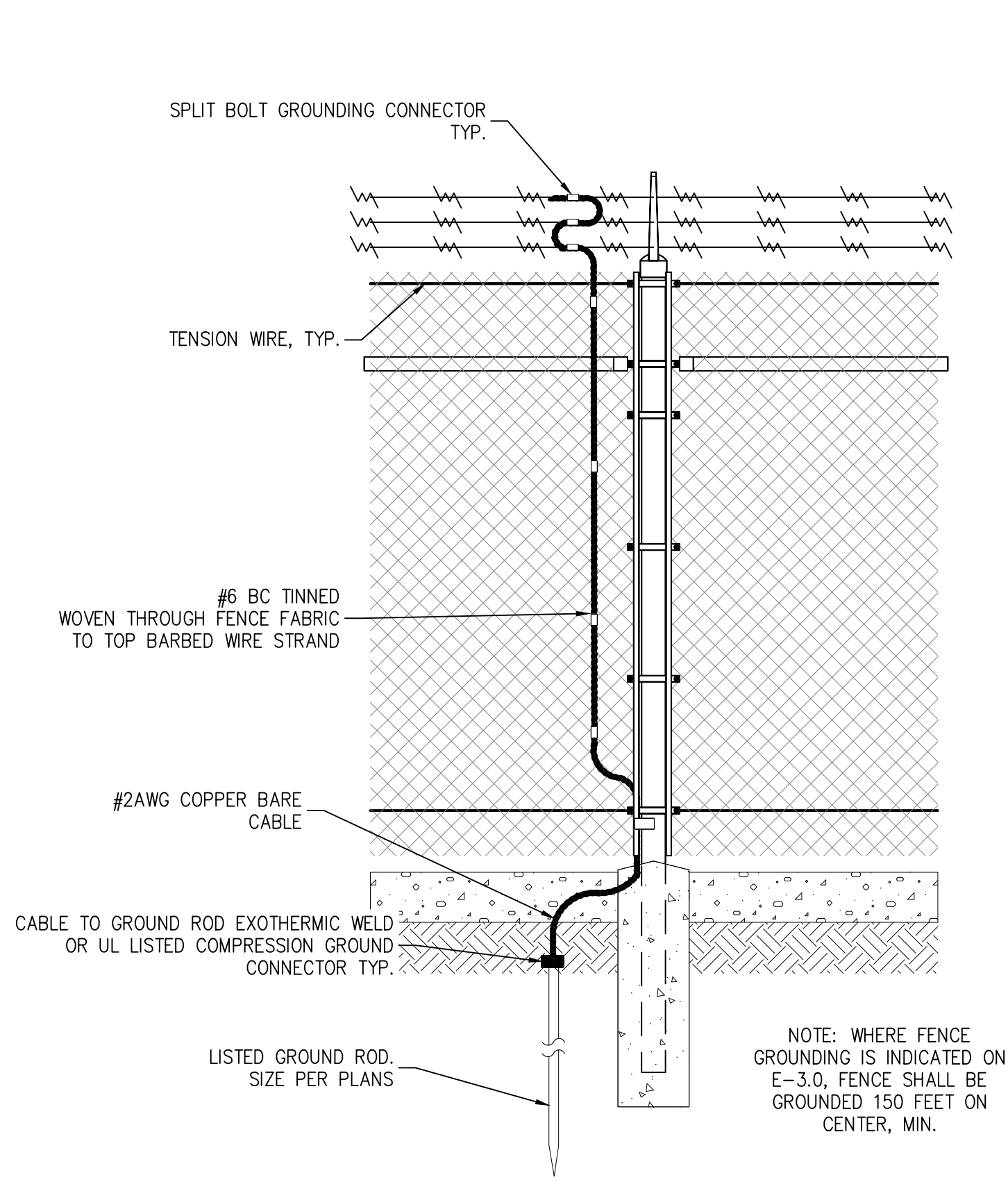
GROUNDING EQUIPMENT

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: BII	SCALE: NONE
SHEET NUMBER	

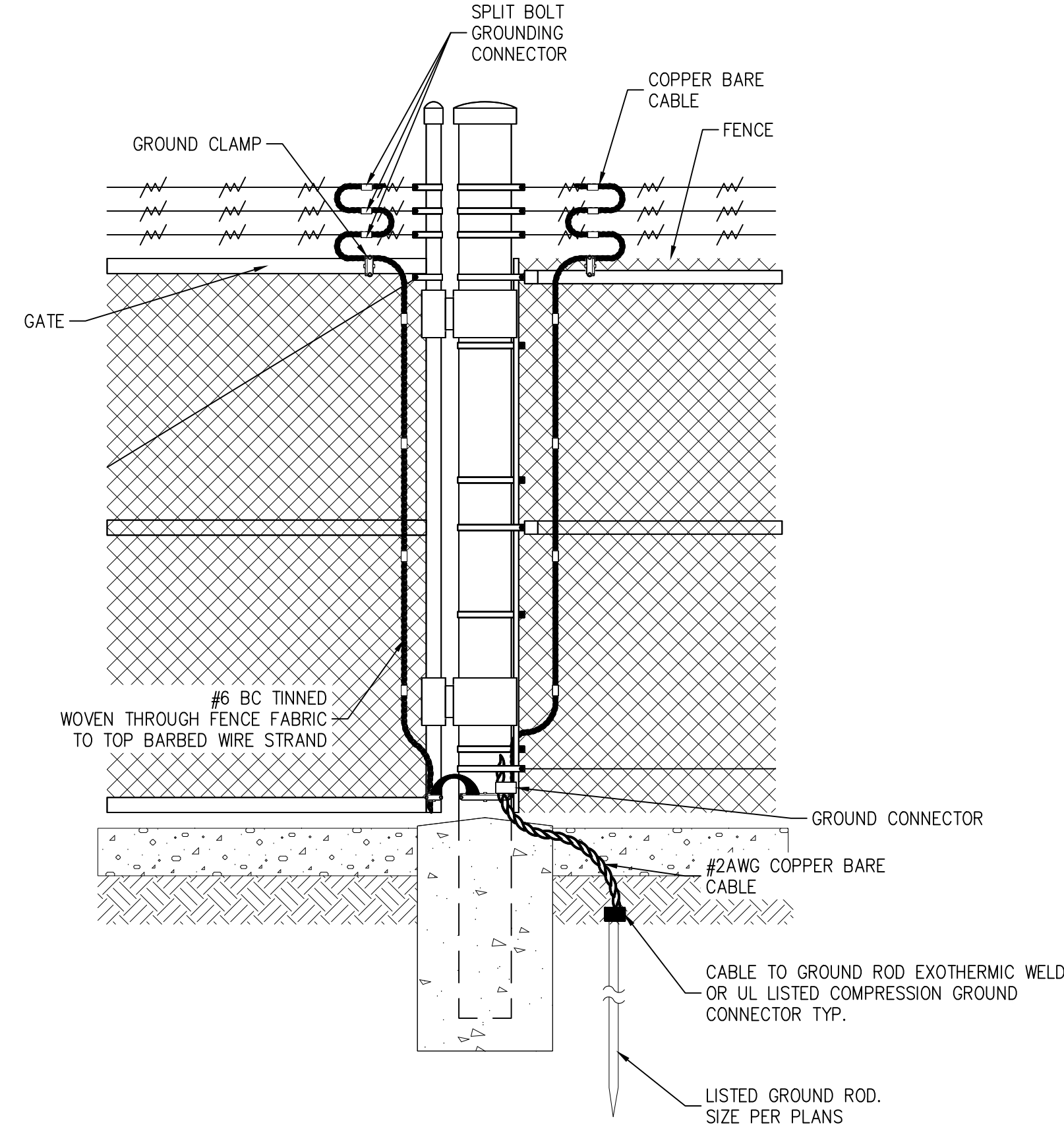
E-8.2

FOR CONSTRUCTION

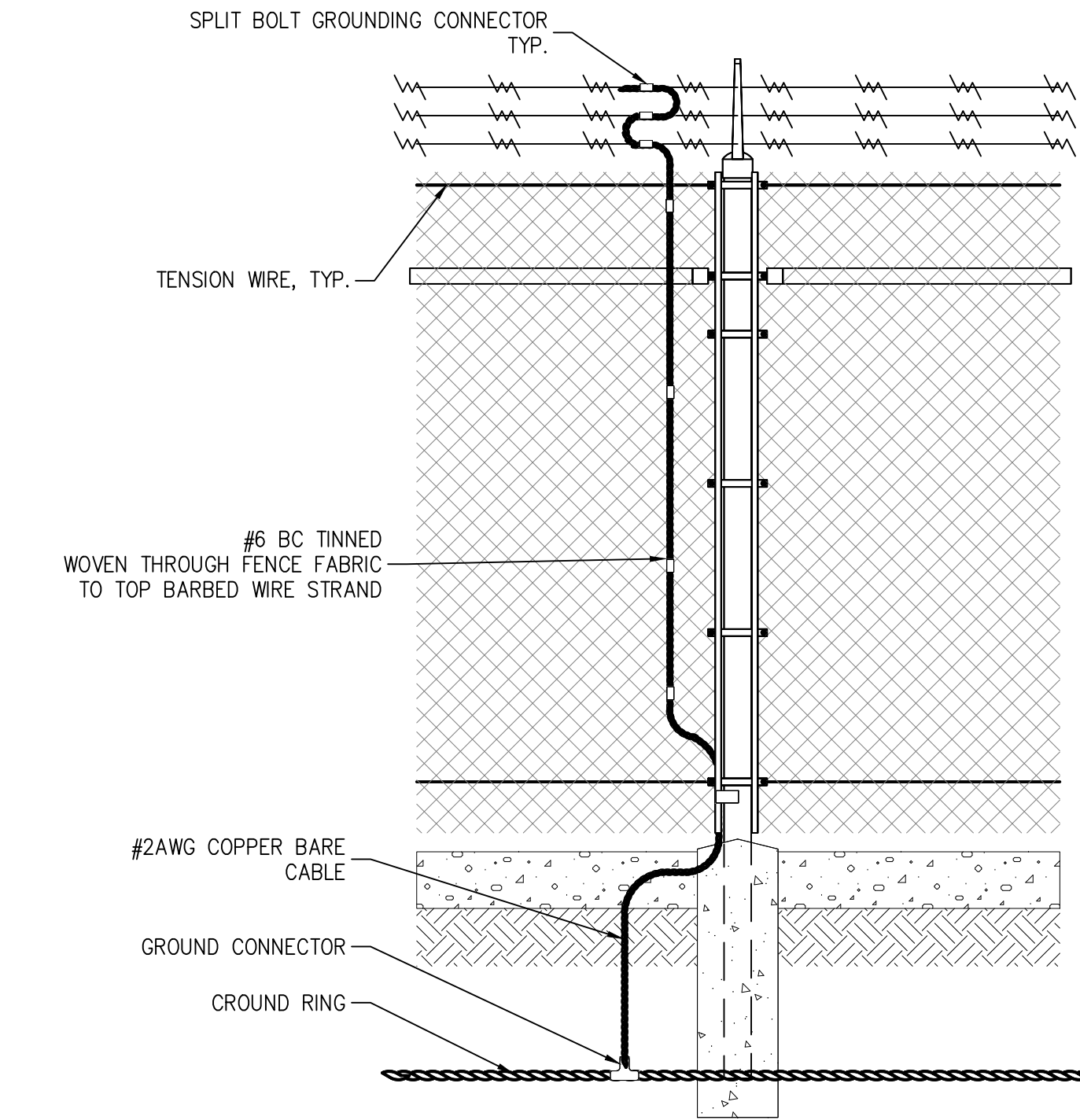
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1 FENCE POST GROUNDING
E-8.3 SCALE: NTS



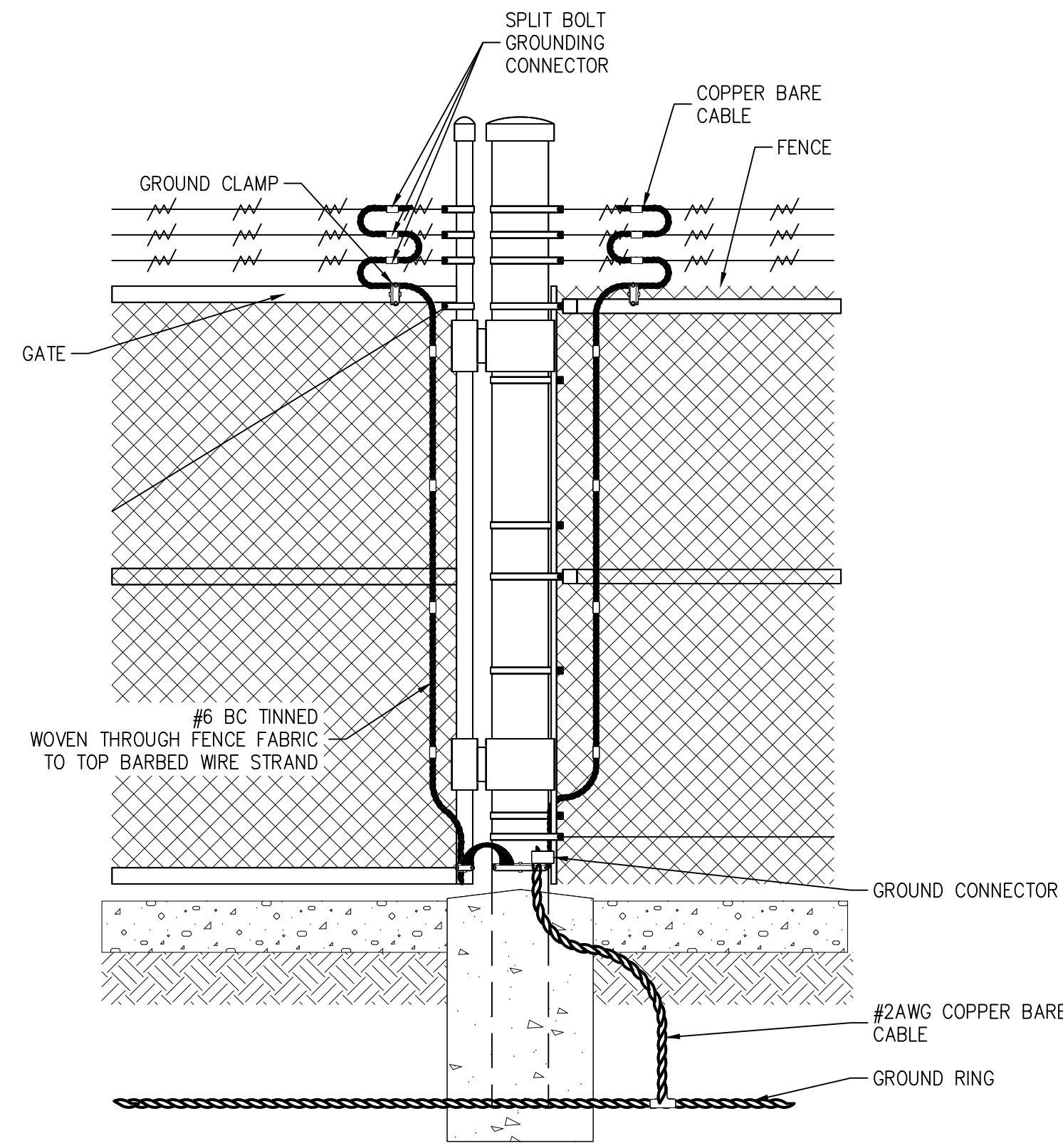
2 GATE GROUNDING
E-8.3 SCALE: NTS



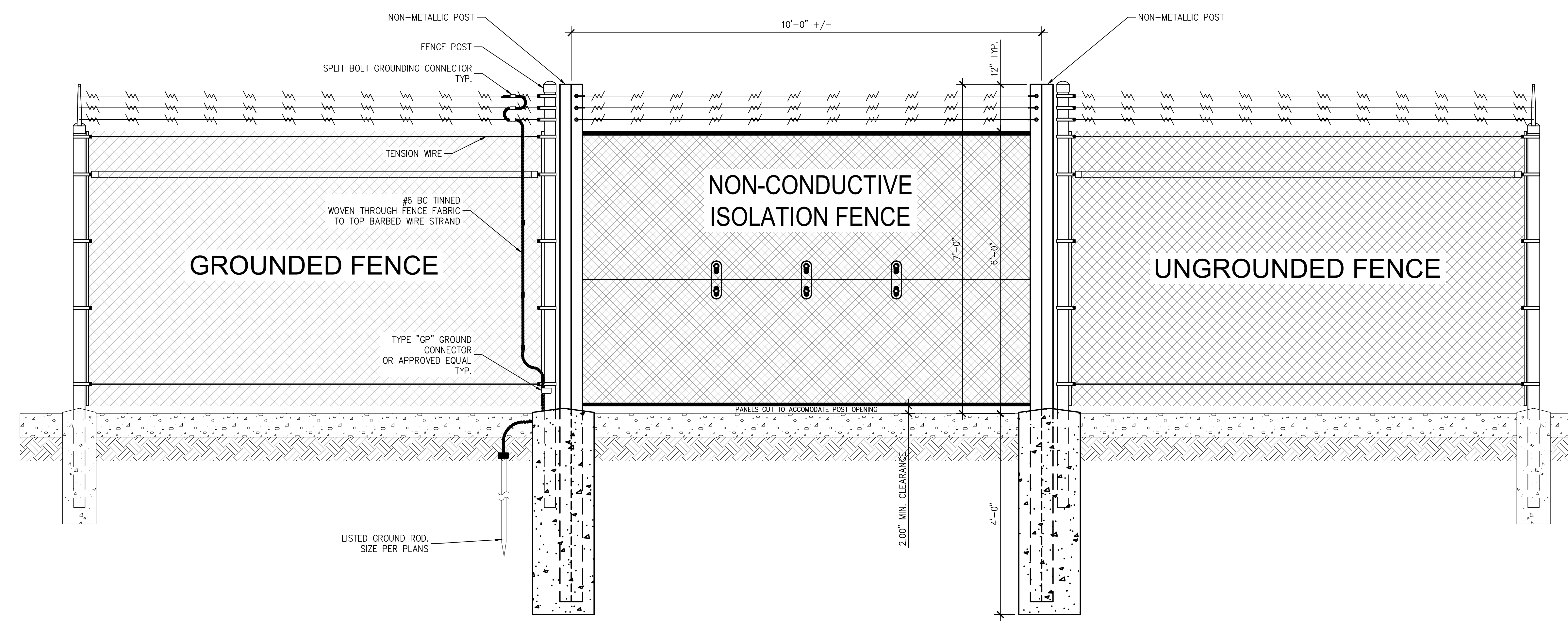
3 ALTERNATE FENCE POST GROUNDING
E-8.3 SCALE: NTS

GENERAL NOTES

1. ALL FENCING TO BE INSTALLED PER MANUFACTURER'S DESIGN, RECOMMENDATION AND SPECIFICATION.
2. STATE AND LOCAL STANDARDS AND SPECIFICATIONS PERTAINING TO A SPECIFIC SITE TAKE PRECEDENCE OVER THIS DRAWING.
3. ALL FENCE TIES, TURNBUCKLES, AND OTHER MISCELLANEOUS ITEMS REQUIRED FOR PROPER FENCE INSTALLATION NOT SHOWN AND TO BE SUPPLIED BY CONTRACTOR. REFER TO CIVIL PLANS FOR FINAL DETAILS.
4. ALL POSTS AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
5. LINE POST SPACING SHALL BE EQUIDISTANT WITH MAX. SPACING OF 10 FEET, UNLESS OTHERWISE NOTED.
6. ALL EXTERNALLY ACCESSIBLE HARDWARE SHALL BE INSTALLED IN SUCH A MANNER TO DETER UNWARRANTED REMOVAL.
7. DOMED CAPS TO BE USED AT ALL GATE POSTS, CORNER POSTS & TERMINAL POSTS. THESE POSTS SHALL BE DEAD-END POINTS (BRACE BAND) FOR BARBED WIRE.
8. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC. USE GALVANIZED HOG-RINGS WIRE TO MOUNT ALL SIGNS.
9. PROVIDE LOCKS ON ALL GATE(S) TO PREVENT UNAUTHORIZED PUBLIC ACCESS.



4 ALTERNATE GATE GROUNDING
E-8.3 SCALE: NTS



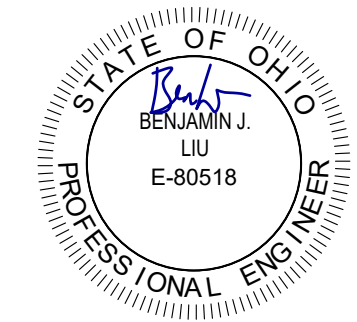
5 ISOLATION PANEL
E-8.3 SCALE: NTS



CONSULTANT



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PROJECT TITLE:
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196 MWAC
MADISON COUNTY, OH

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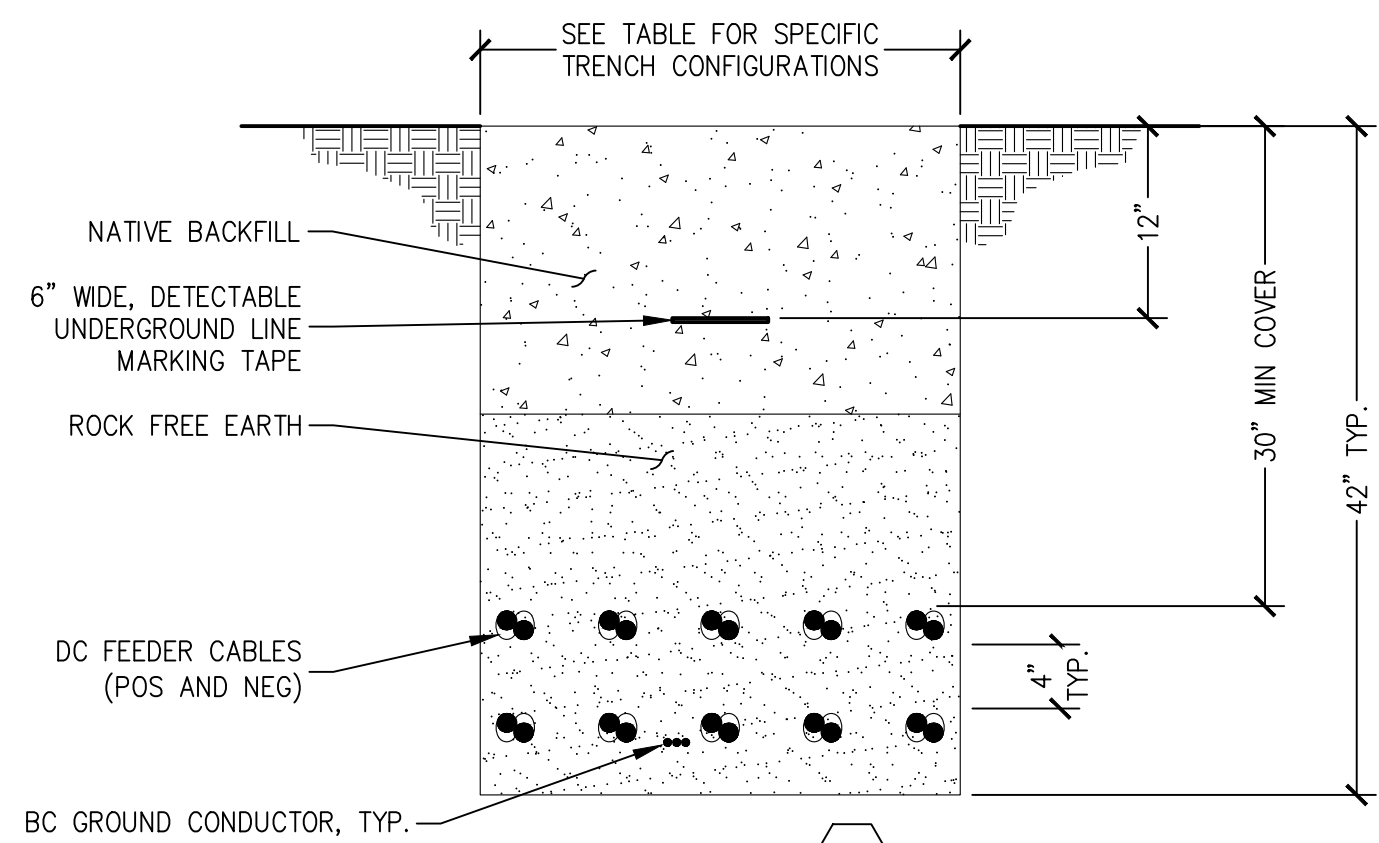
GROUNDING DETAILS
FENCE

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: SSS	SCALE: NONE
SHEET NUMBER	

E-8.3

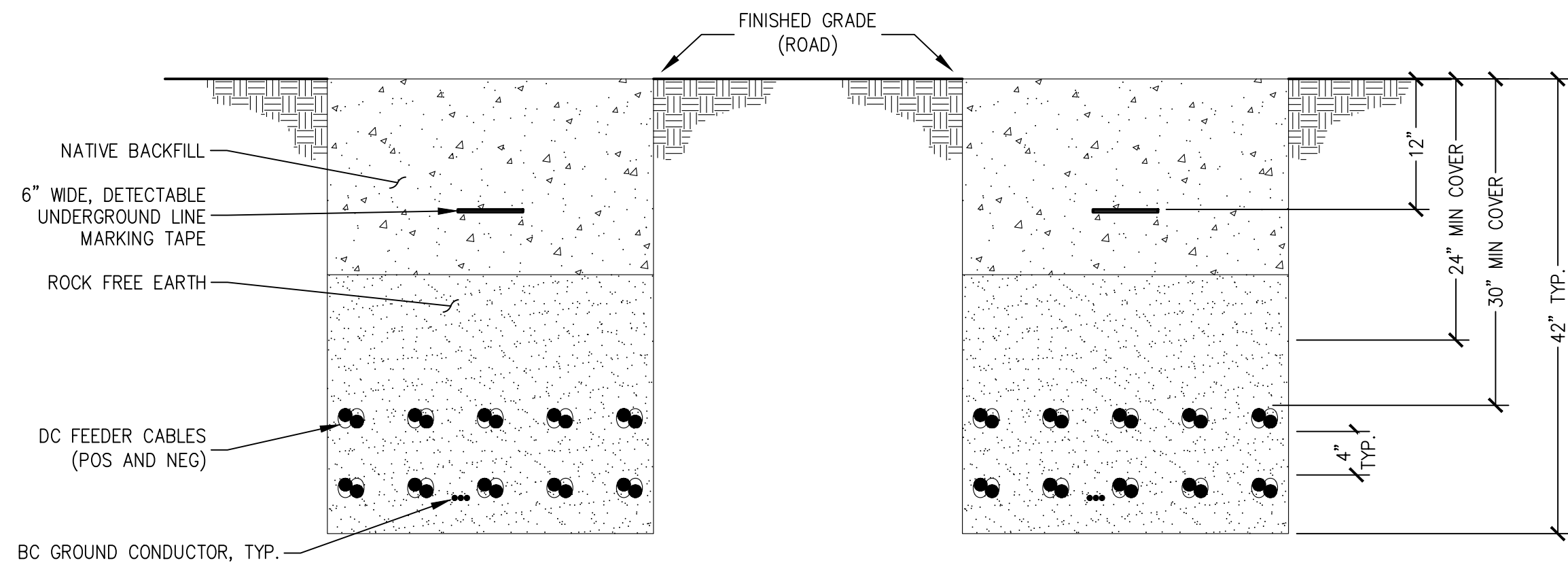
FOR CONSTRUCTION

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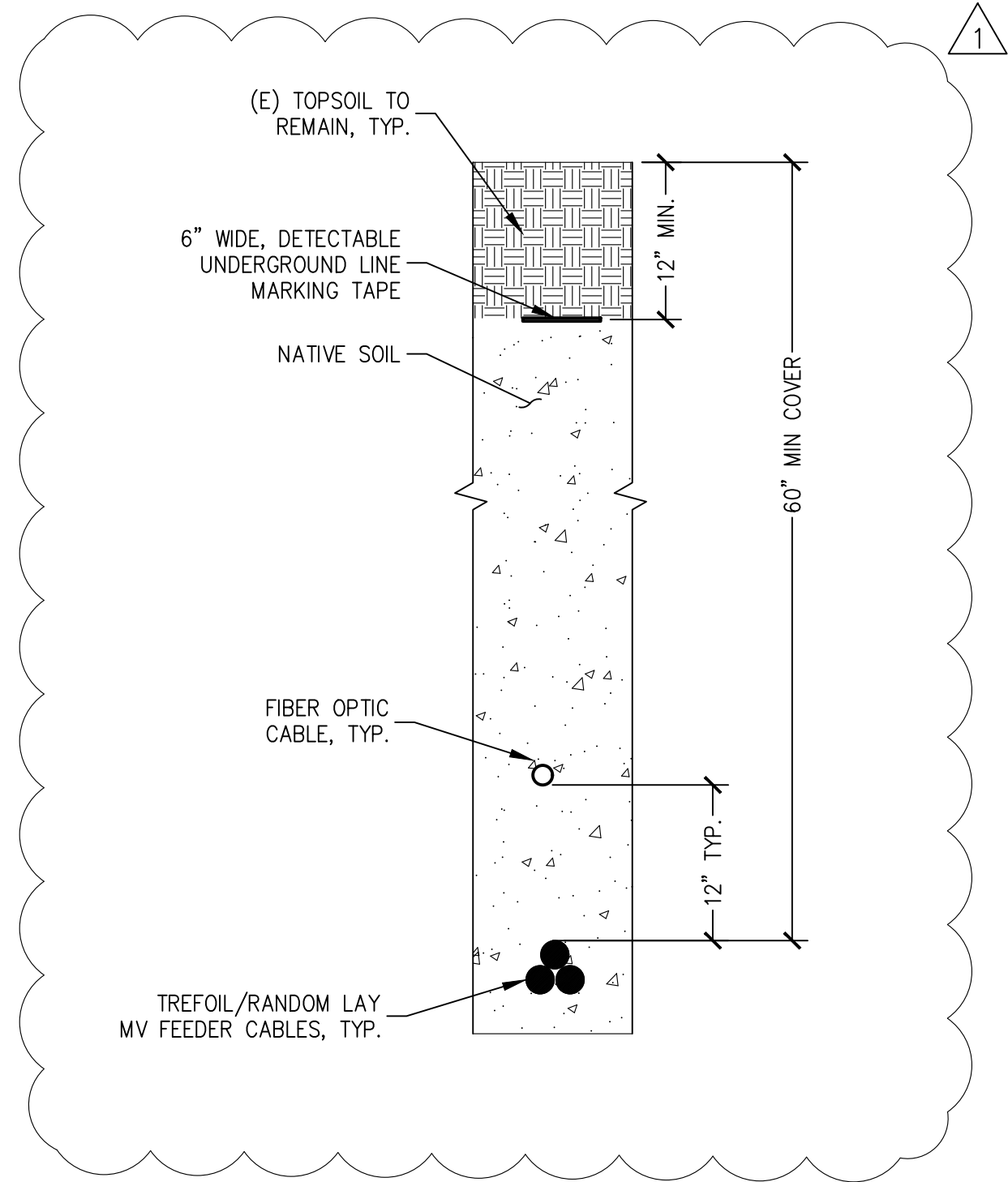


TRENCH REQUIREMENTS	
TRENCH WIDTH	30"
MAX NUMBER OF DC FEEDERS	10
MAX NUMBER OF DC FEEDERS PER LIFT	5
LIFTS DC FEEDERS CAN BE INSTALLED ON	1-2

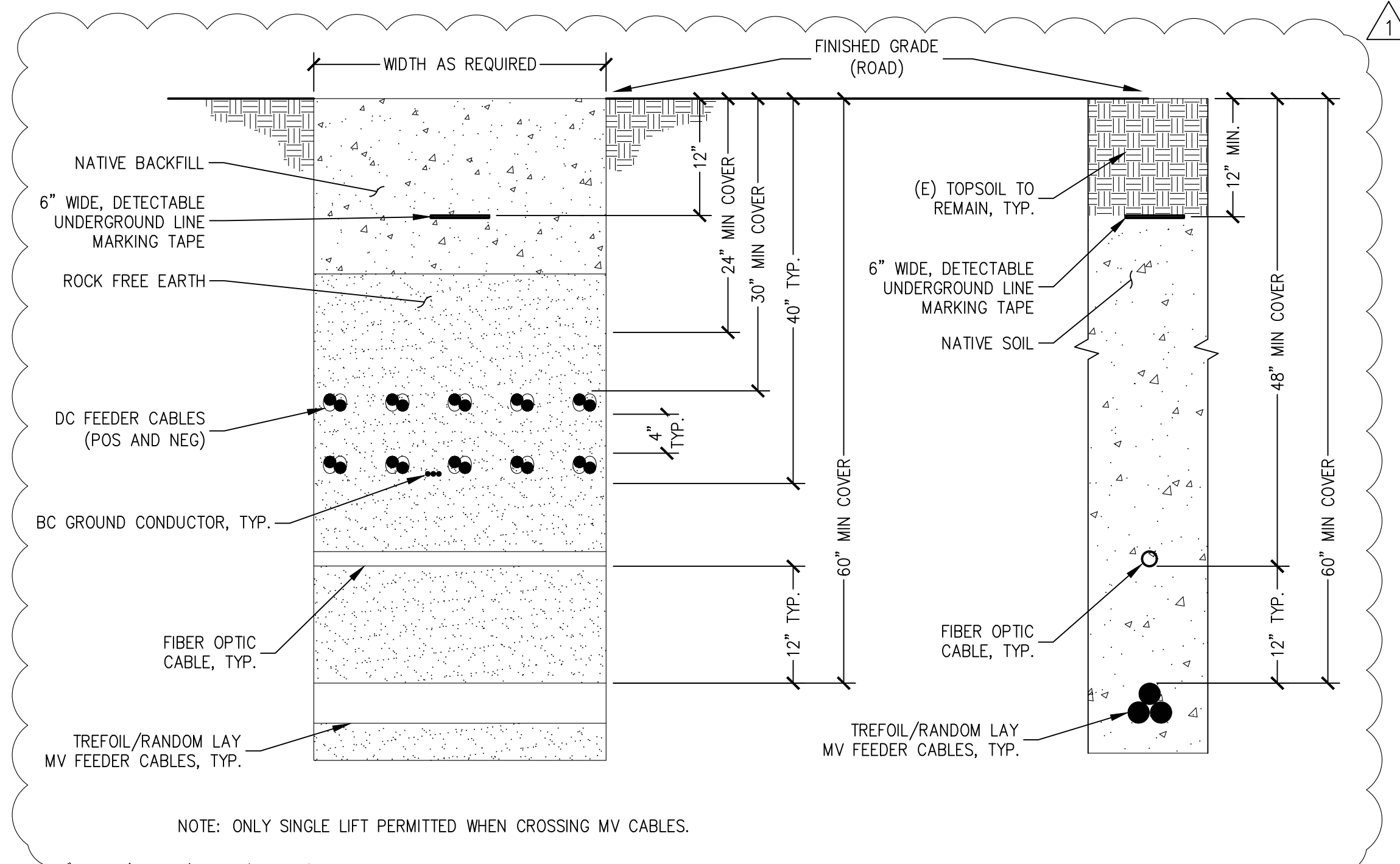
1 DC FEEDER TRENCH
E-9.0 SCALE: 1" = 1'-0"



2 MEDIUM VOLTAGE FEEDER PLOW
E-9.0 SCALE: 1" = 1'-0"

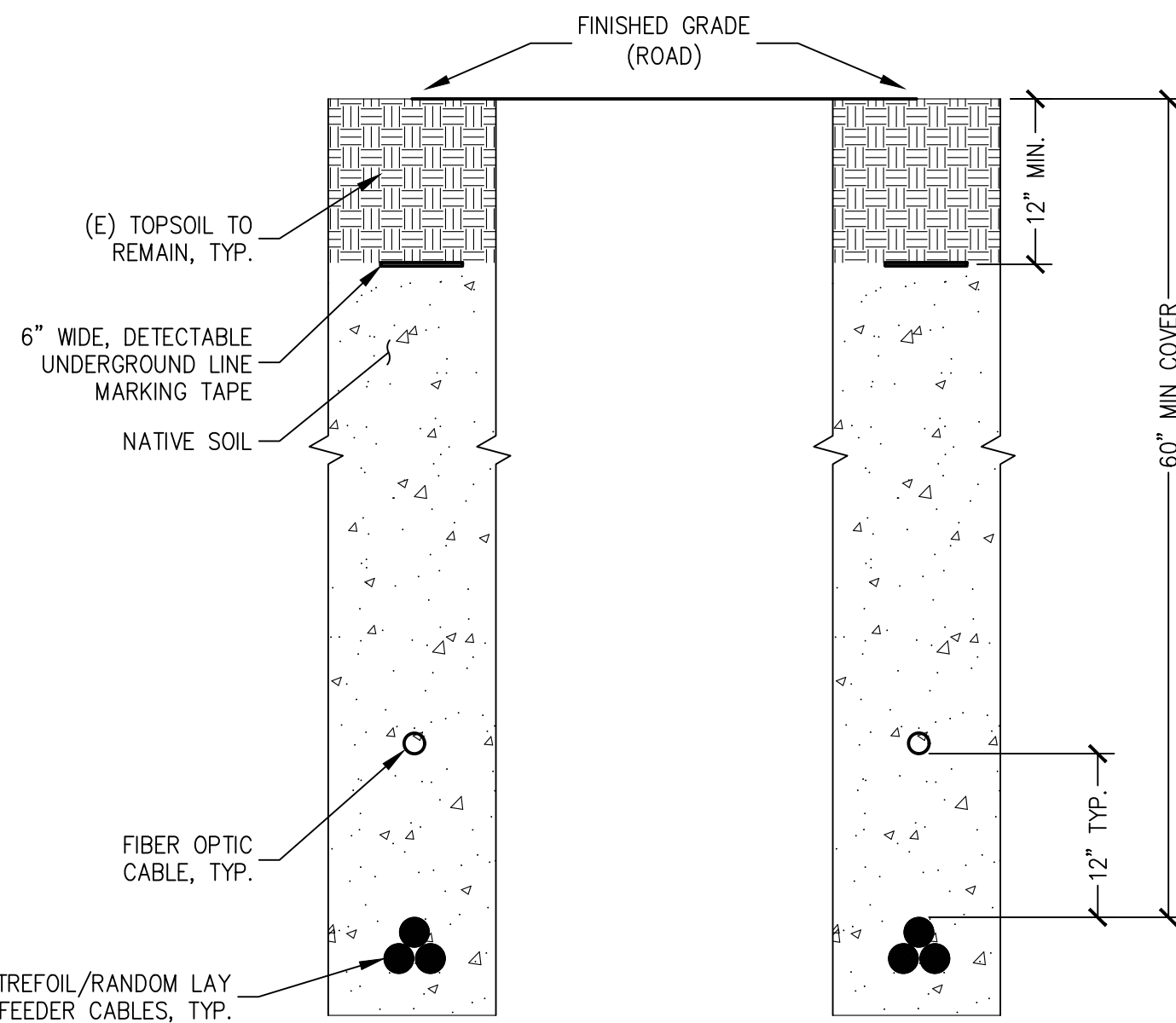


2A MEDIUM VOLTAGE FEEDER TRENCH
E-9.0 SCALE: 1" = 1'-0"

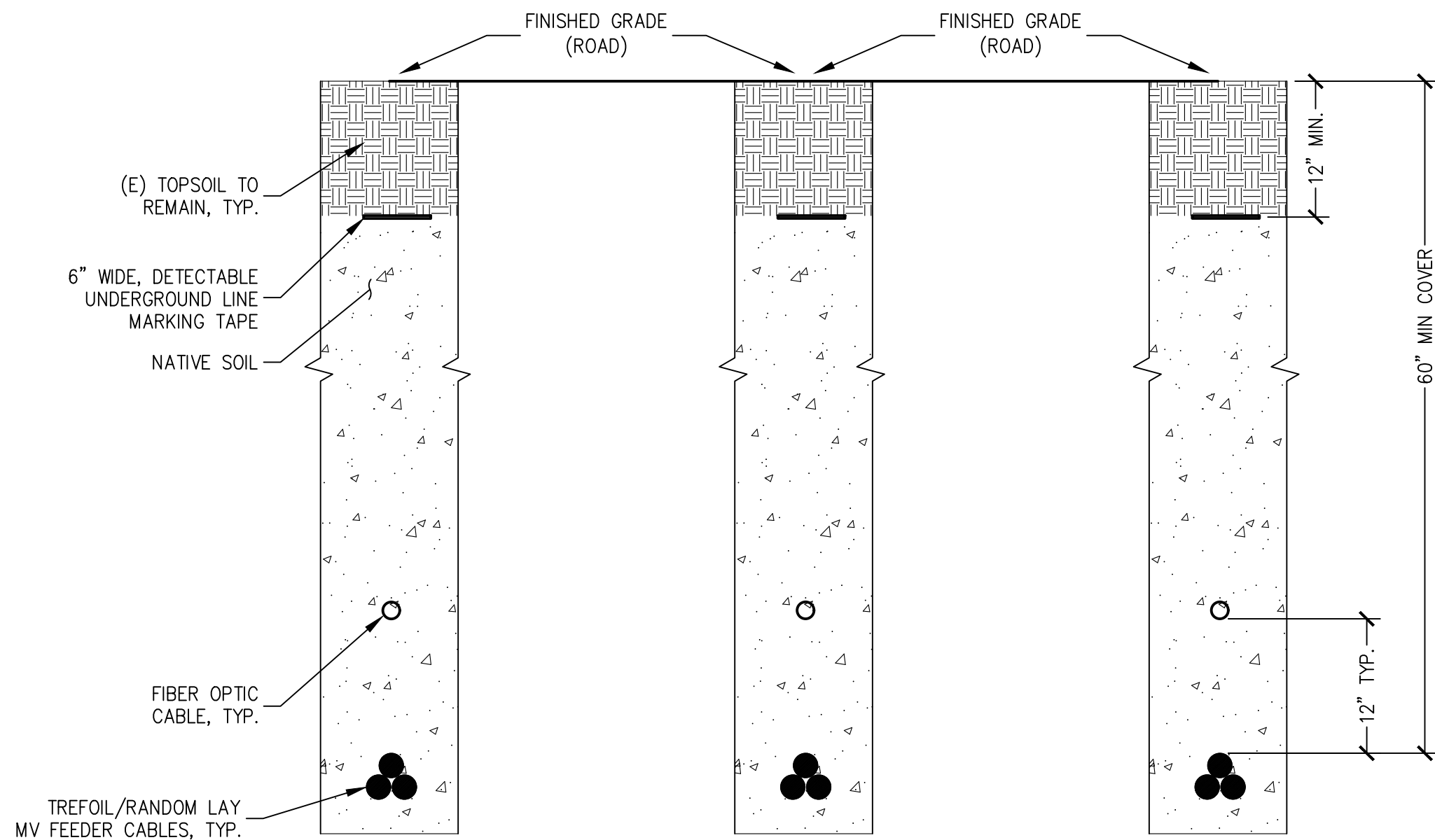


3 DC FEEDER TRENCH
E-9.0 SCALE: 1" = 1'-0"

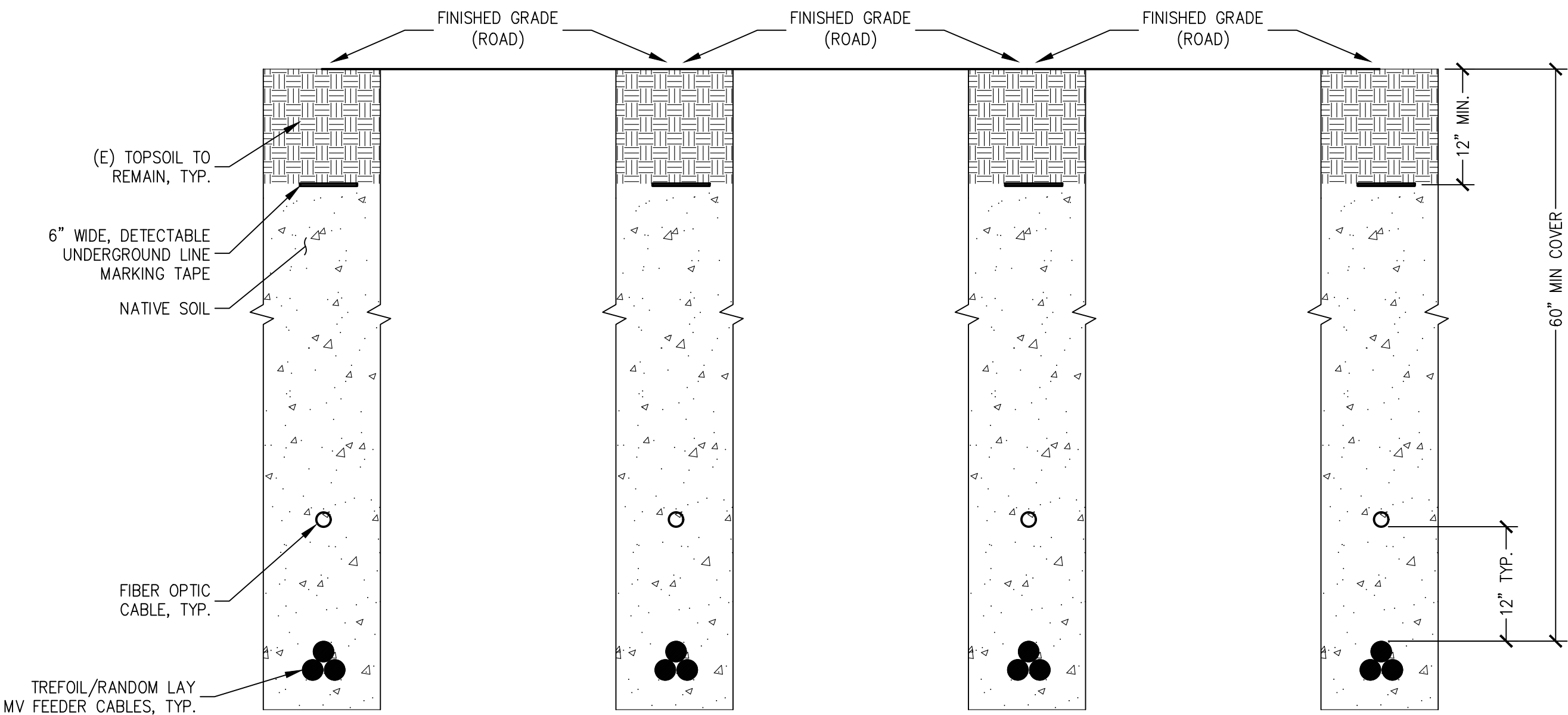
4 MV FEEDER PLOW & DC FEEDER TRENCH
E-9.0 SCALE: 1" = 1'-0"



5 MV FEEDER PLOW
E-9.0 SCALE: 1" = 1'-0"



6 MV FEEDER PLOW
E-9.0 SCALE: 1" = 1'-0"



7 MV FEEDER PLOW
E-9.0 SCALE: 1" = 1'-0"

GENERAL NOTES

- TRENCHES AND CABLE PLOW CROSS SECTIONS ARE LOCATION SPECIFIC REFER TO E-3 SERIES FOR DETAIL CALLOUTS.
- THE CONFIGURATIONS SHOWN REPRESENT THE REQUIREMENTS FOR EACH OF THE TRENCH OR PLOW CONDITIONS ON SITE. MINIMUM CLEARANCES, MINIMUM COVER REQUIREMENTS, AND TYPICAL DEPTHS. SEE DETAIL TABLES FOR SPECIFIC TRENCH WIDTHS AND FILL REQUIREMENTS.
- ALL TRENCHES SHALL HAVE:
 - 4" HORIZONTAL SEPARATION BETWEEN CABLES OR CONDUITS.
 - 4" VERTICAL SEPARATION BETWEEN CABLE CROSSINGS.
 - 4" VERTICAL SPACE BETWEEN LIFTS.UNLESS OTHERWISE NOTED.
- CABLE AMPACITY HAS BEEN DETERMINED USING THE NEHER-MCGRATH METHOD AND EXCEEDS MINIMUM AMPACITY REQUIREMENTS OF THE STATE'S ELECTRICAL CODE. CONTRACTOR SHALL NOTIFY EOR IF INSTALLATION REQUIREMENTS CANNOT BE MET SO FURTHER ANALYSIS MAY BE PERFORMED.
- TRENCH BACKFILL COMPACTION SHALL BE:
 - 85% AT NON-ROADWAY AREAS.
 - PER GEOTECHNICAL REPORT REQUIREMENTS AT ROADWAY AREAS.
 - PER GEOTECHNICAL REPORT REQUIREMENTS WHEN WITHIN 24" OF STRUCTURAL COLUMN OR PIER.
 - SOIL DENSITY AND COMPACTION SHALL BE IN ACCORDANCE WITH STANDARD PROCTOR TEST.
 - COMPACTION MEANS AND METHODS SHALL BE DETERMINED BY TRENCHING CONTRACTOR.
- TRENCH CONSTRUCTION SHALL COMPLY WITH OSHA REQUIREMENTS.
- SAND OR ROCK-FREE NATIVE SOIL SHALL BE USED FOR BEDDING MATERIAL 3" IN DEPTH AND FOR BACKFILL WHEN WITHIN 6" OF CABLES OR CONDUITS. UON SOIL WITH ROCKS LESS THAN 1/2" IN SIZE AND WITHOUT SHARP EDGES SHALL BE CONSIDERED ROCK-FREE.
- PROVIDE 6" WIDE DETECTABLE WARNING RIBBON CENTERED IN TRENCH 12" BELOW GRADE AND AT LEAST 12" ABOVE ANY CONDUIT OR DIRECT BURIED CABLE OPERATING AT OVER 600V.

KEYED NOTES

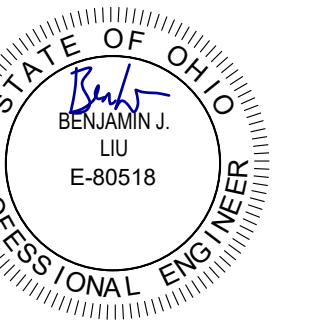
- CABLE/CONDUIT LIFTS ARE SPECIFIED NUMERICALLY IN DESCENDING ORDER FROM SHALLOWEST TO DEEPEST FROM GRADE, 0,1,2,3,...N.
- MEDIUM VOLTAGE FEEDER TRENCH SHALL BE USED WHERE TURNING RADIUS, PROXIMITY TO EQUIPMENT, OR PROXIMITY TO TRENCHES DOES NOT ALLOW FEEDER PLOWING. CONTRACTOR TO COORDINATE TRANSITION BETWEEN FEEDER PLOW AND FEEDER TRENCH. DETAIL MAY BE SUBSTITUTED AS NEEDED FOR FEEDER PLOW IN ALL TRENCH DETAILS WHERE FEEDER PLOW IS SHOWN.



CONSULTANT



STAMP/SEAL



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1	ISSUE FOR CONSTRUCTION	06/23/2022

PROJECT TITLE:
**BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH**

SHEET TITLE:

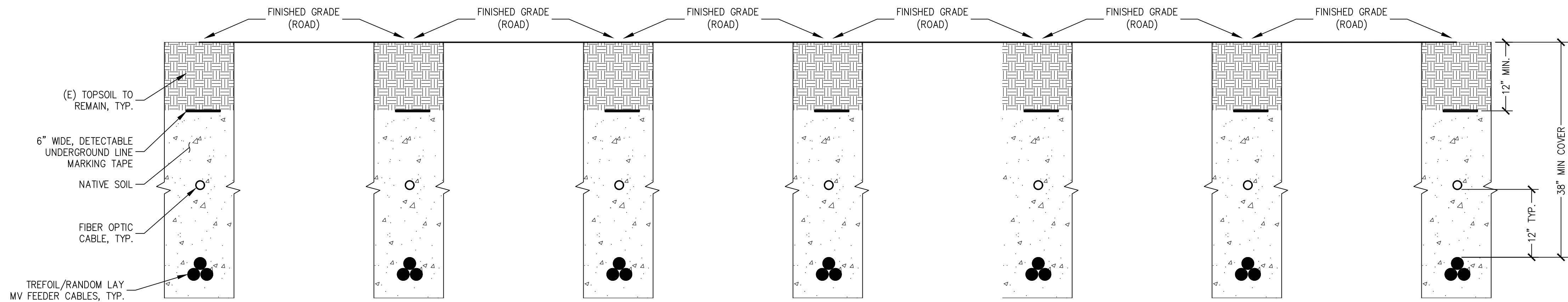
TRENCH SECTIONS

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: SSS	SCALE: AS SHOWN
SHEET NUMBER	

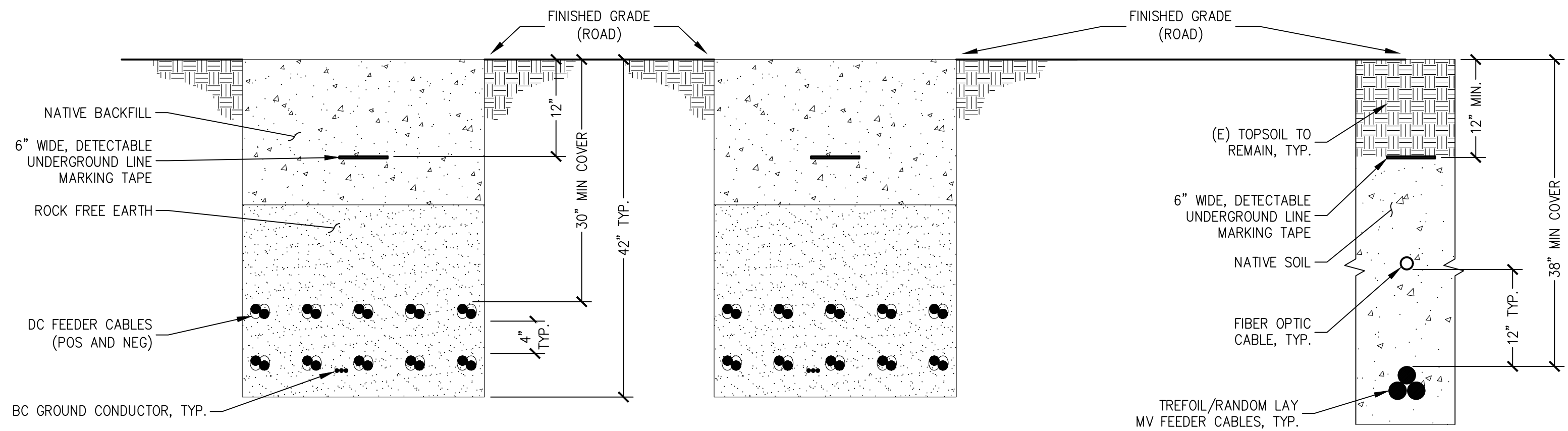
E-9.0

FOR CONSTRUCTION

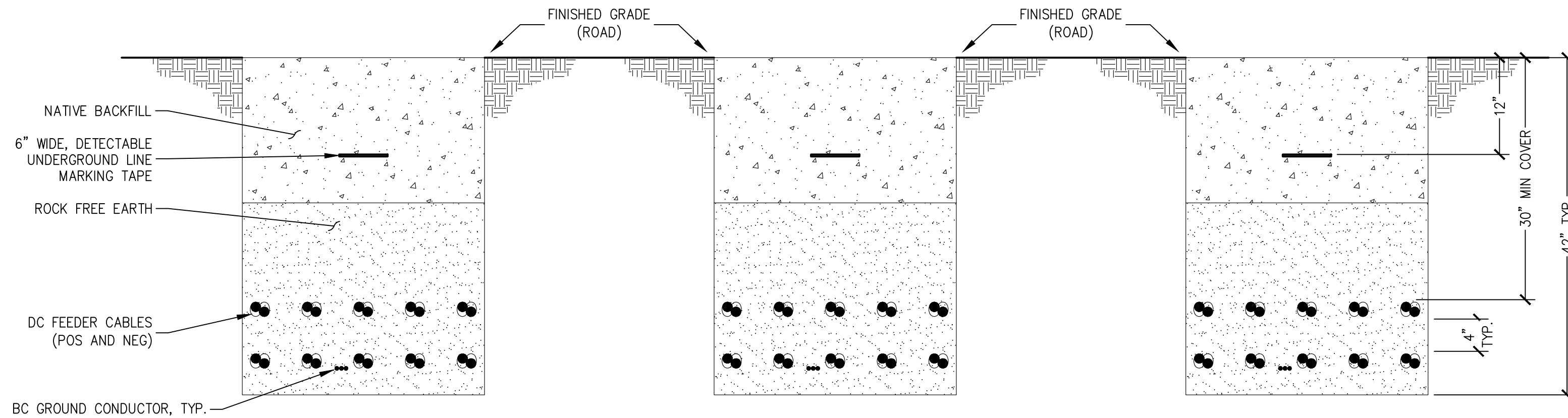
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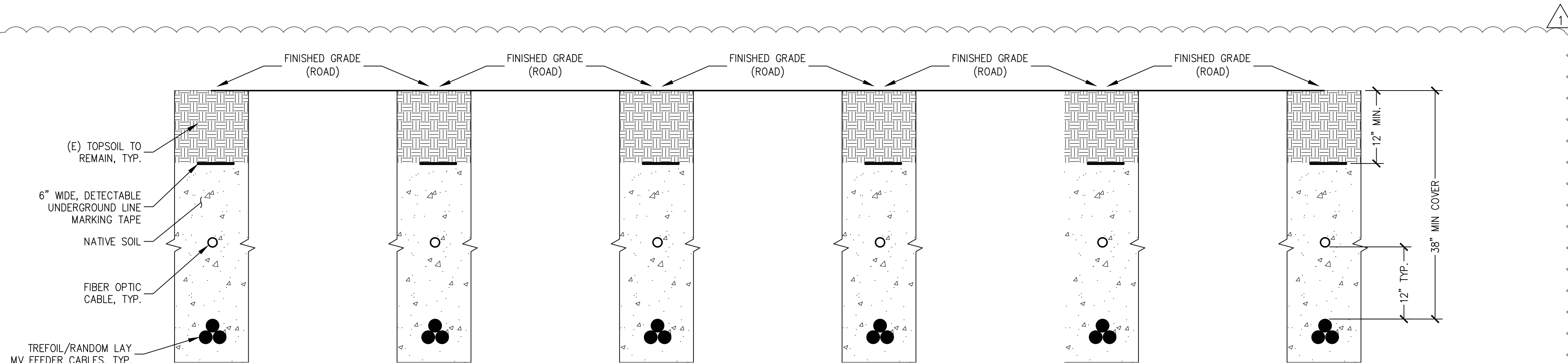
1 MV FEEDER PLOW
E-9.1 SCALE: 1" = 1'-0"



2 MV FEEDER PLOW & DC FEEDER TRENCH
E-9.1 SCALE: 1" = 1'-0"



3 MV FEEDER PLOW & DC FEEDER TRENCH
E-9.1 SCALE: 1" = 1'-0"



4 MV FEEDER PLOW
E-9.1 SCALE: 1" = 1'-0"

GENERAL NOTES

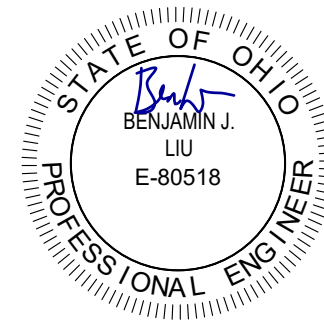
- TRENCHES AND CABLE PLOW CROSS SECTIONS ARE LOCATION SPECIFIC REFER TO E-3 SERIES FOR DETAIL CALLOUTS.
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CONSULTANT



STAMP/SEAL



REV #	DESCRIPTION	DATE
0	FOR PERMIT	04/22/2022
1	ISSUE FOR CONSTRUCTION	06/23/2022

PROJECT TITLE:
**BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH**

SHEET TITLE:

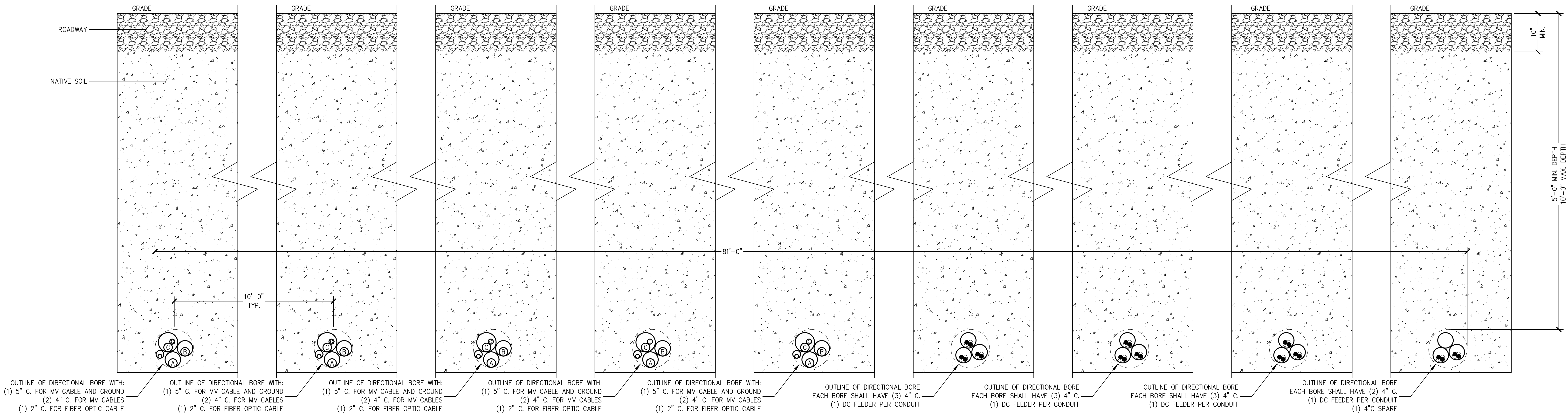
TRENCH SECTIONS

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: SSS	SCALE: AS SHOWN
SHEET NUMBER	

E-9.1

FOR CONSTRUCTION

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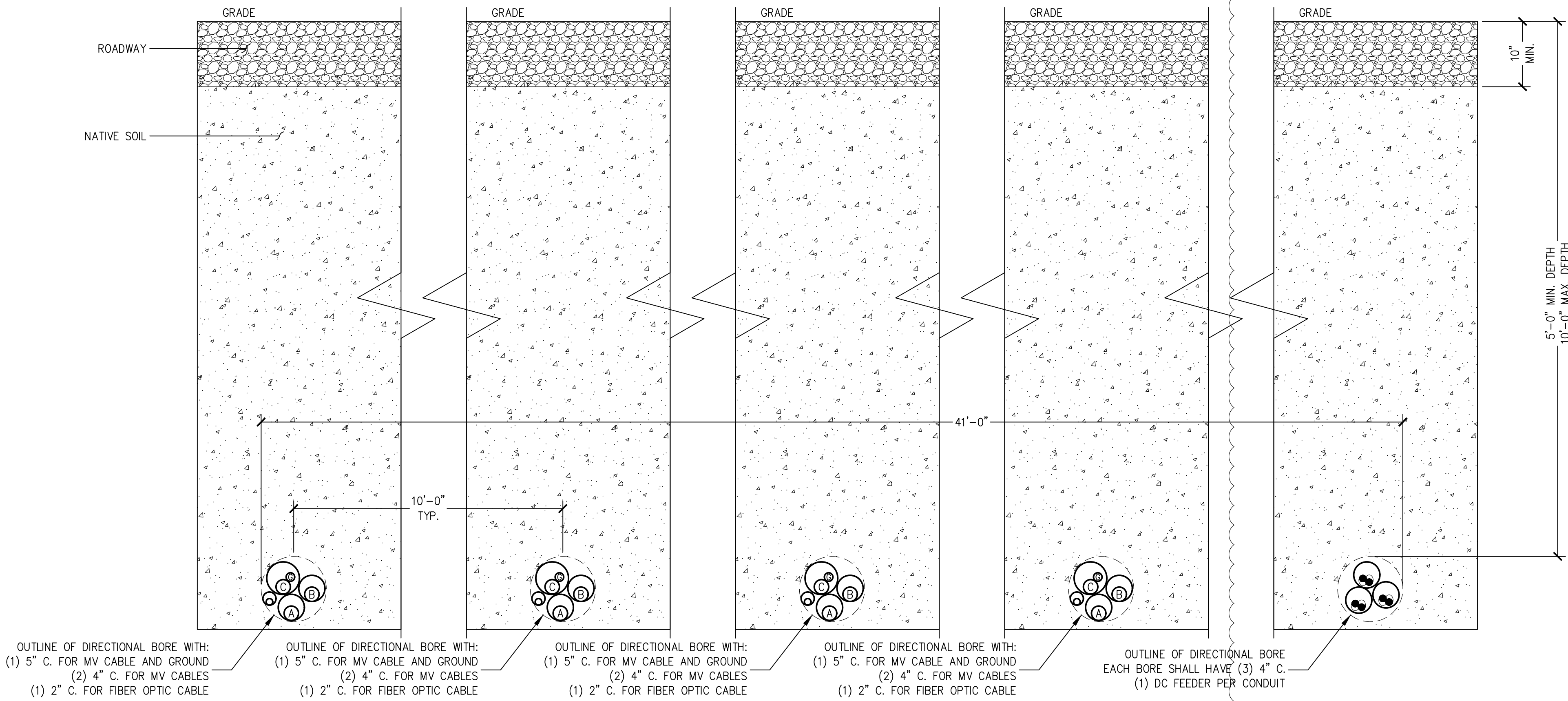
1
E-9.2 ROAD CROSSINGS
SCALE: NTS

DIRECTIONAL BORE NOTES:

1. CONTRACTOR SHALL NOTIFY EOR IF BORING WILL EXCEED MAX. DEPTH. CONDUCTORS MAY NEED TO BE UPSIZED.
2. ALL CONDUIT SHALL BE MIN. SCHEDULE 80 PVC UON.
3. CONDUIT SHALL NOT HAVE ANY BENDS HORIZONTALLY OR VERTICALLY WHILE CROSSING ROAD.
4. CONDUIT SHALL CROSS THE EASEMENT PERPENDICULAR TO ROAD.
5. BORE PIT BACKFILL COMPACTION SHALL BE 85% AT NON-ROADWAYS AND 95% AT ROADWAY AREAS.
6. BORE PIT TO BE LOCATED OUT OF ALL EASEMENTS.
7. PLACE UNDERGROUND CABLE MARKER SIGN AT EACH CORNER OF THE RIGHT OF WAY CROSSING. SIGNS SHALL EXPLAIN THAT MULTIPLE MEDIUM VOLTAGE CABLES ARE BURIED BETWEEN THE SIGNS.
8. PROVIDE PULL BOXES OR VAULTS ON EACH END WHERE REQUIRED FOR SPLICING CABLES.
9. CONFIRM CROSSING REQUIREMENTS WITH AHJ.
10. UTILITY SHALL BE WRAPPED WITH TRACER WIRE WITHIN THE WIDTH OF THE RIGHT-OF-WAY.

GENERAL NOTES

1. DETAILS SHOWS 5" CONDUIT FOR 1000 KCMIL FEEDER AND GND WIRE. 750 KCMIL AND LOWER MAY USE 4" CONDUIT.



2
E-9.2 ROAD CROSSINGS
SCALE: NTS

DIRECTIONAL BORE NOTES:

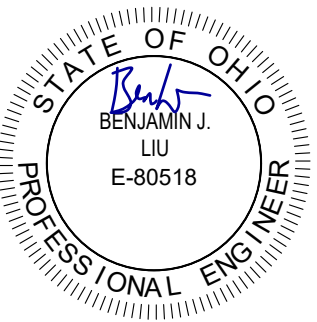
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196 MWAC
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SHEET TITLE:

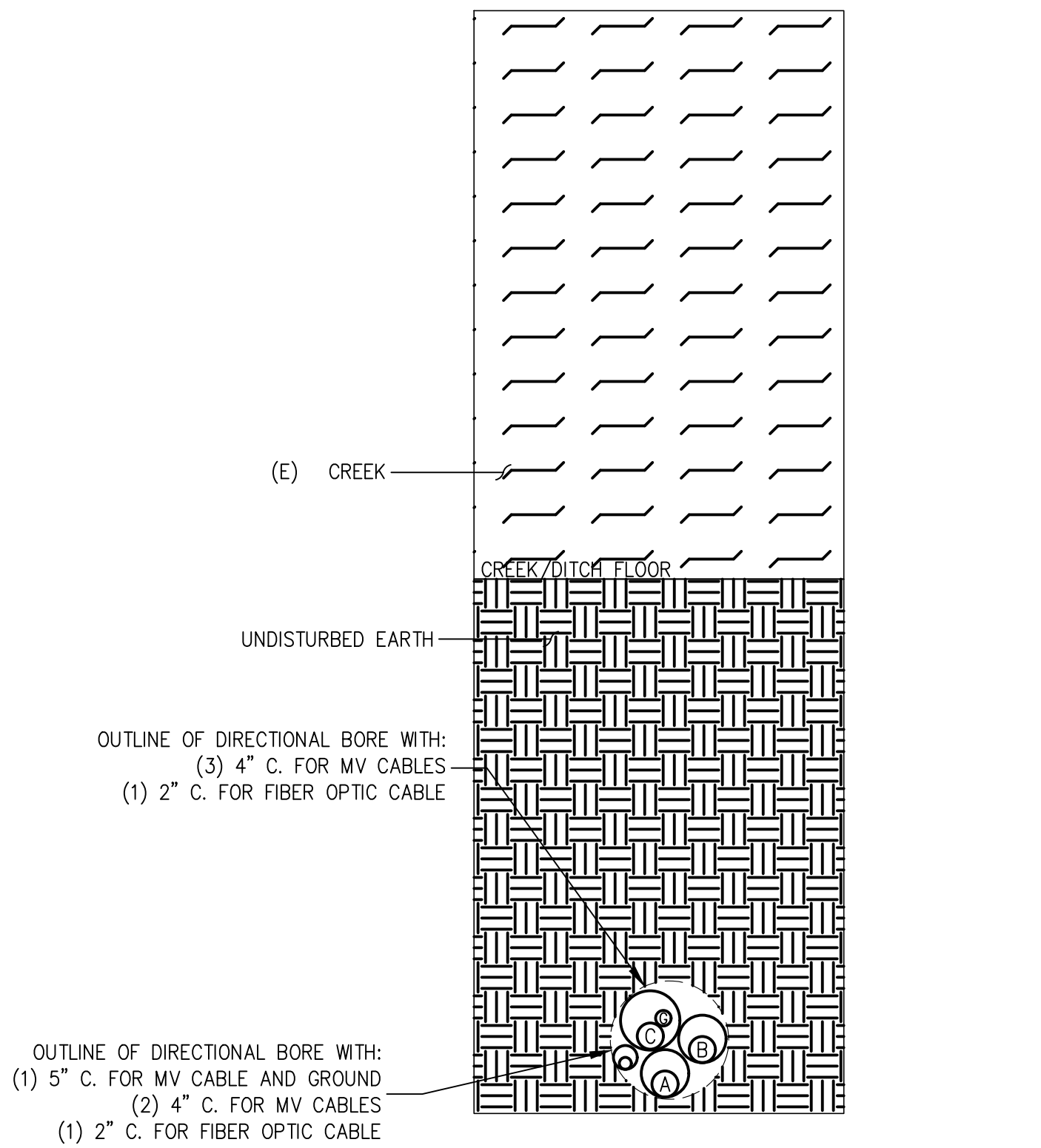
TRENCH SECTIONS

JOB NO.: 222018	PROJECT MGR: CG
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SHEET NUMBER	

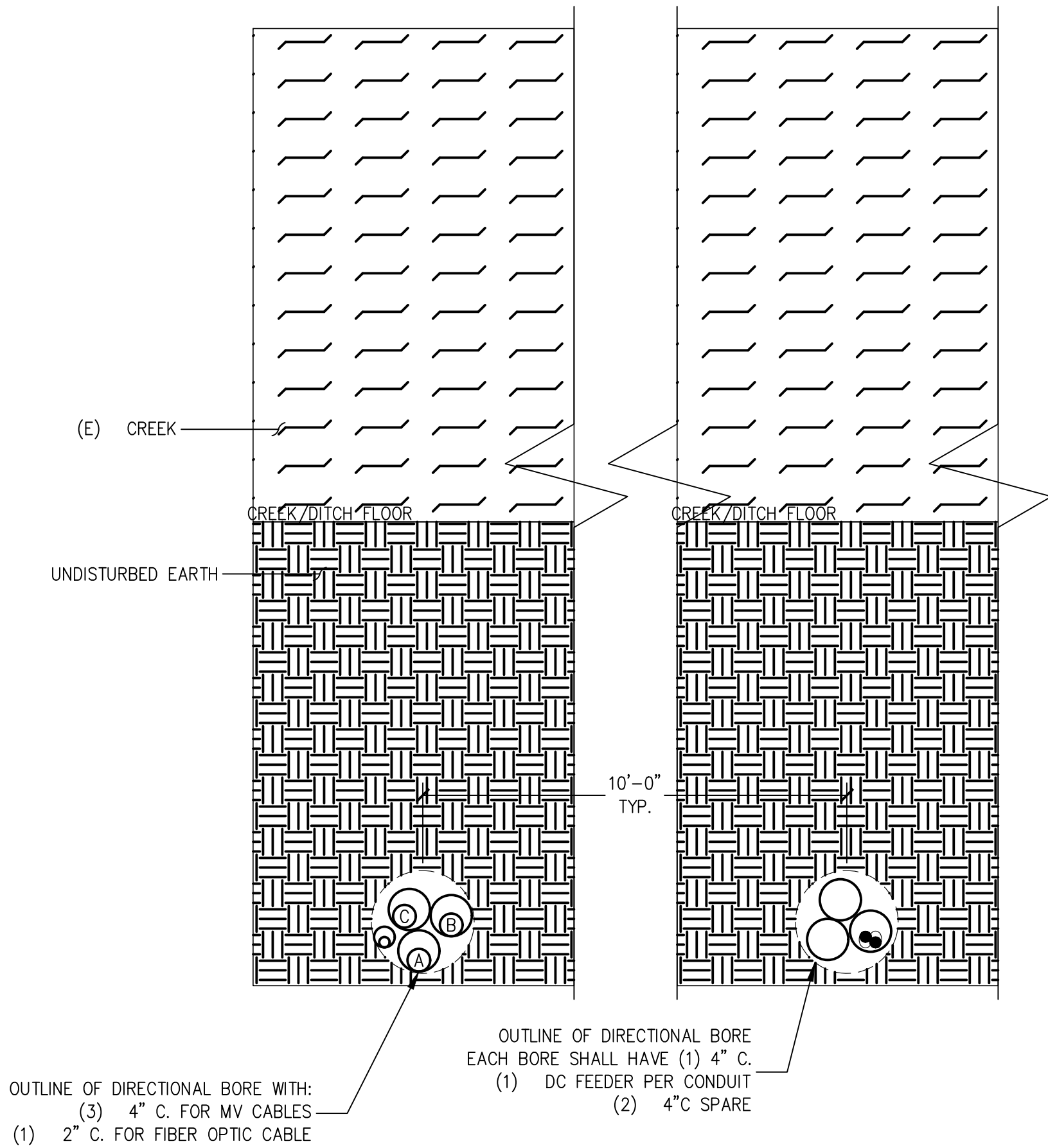
E-9.2

FOR CONSTRUCTION

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- DIRECTIONAL BORE NOTES:**
1. CONTRACTOR SHALL NOTIFY EOR IF BORING WILL EXCEED MAX. DEPTH. CONDUCTORS MAY NEED TO BE UPSIZED.
 2. ALL CONDUIT SHALL BE MIN. SCHEDULE 80 PVC UON.
 3. CONDUIT SHALL NOT HAVE ANY BENDS HORIZONTALLY OR VERTICALLY WHILE CROSSING STREAM.
 4. CONDUIT SHALL CROSS THE EASEMENT PERPENDICULAR TO STREAM.
 5. BORE PIT BACKFILL COMPACTION SHALL BE 85% AT NON-ROADWAYS AND 95% AT ROADWAY AREAS.
 6. BORE PIT TO BE LOCATED OUT OF ALL EASEMENTS.
 7. PROVIDE PULL BOXES OR VAULTS ON EACH END WHERE REQUIRED FOR SPLICING CABLES.
 8. CONFIRM CROSSING REQUIREMENTS WITH PIPELINE OWNER.
 9. PLACE UNDERGROUND CABLE MARKER SIGN AT EACH CORNER OF THE RIGHT OF WAY CROSSING. SIGNS SHALL EXPLAIN THAT MULTIPLE MEDIUM VOLTAGE CABLES ARE BURIED BETWEEN THE SIGNS.



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GENERAL NOTES

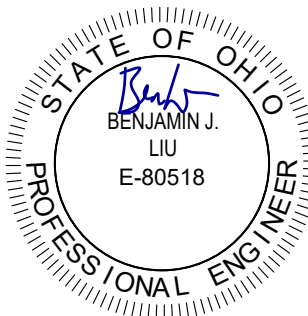
1. DETAILS SHOWS 6\"/>



CONSULTANT



STAMP/SEAL



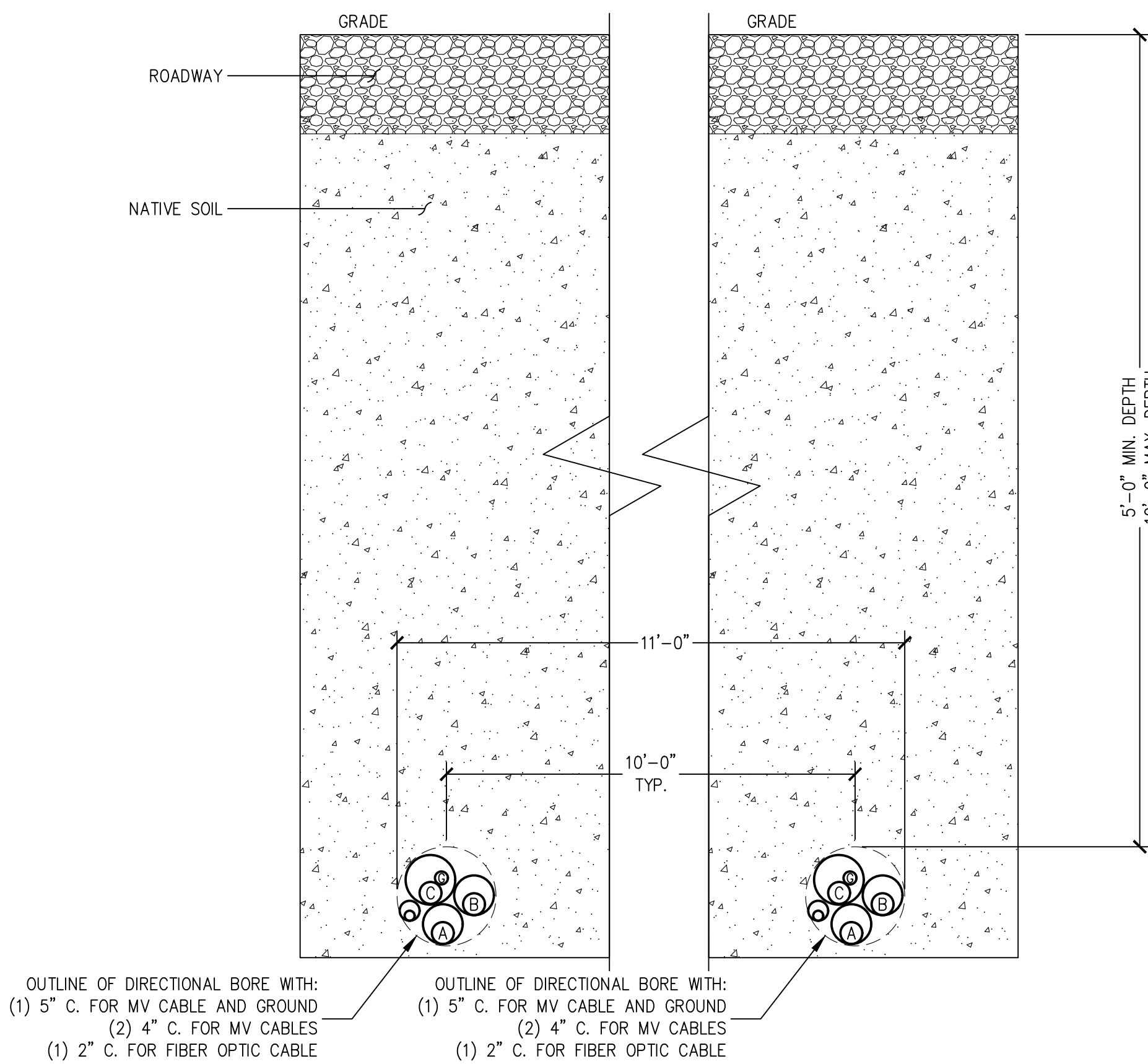
REV #	DESCRIPTION	DATE
0	FOR PERMIT	04/22/2022
1	ISSUE FOR CONSTRUCTION	06/23/2022

1 UG STREAM/DITCH CROSSINGS

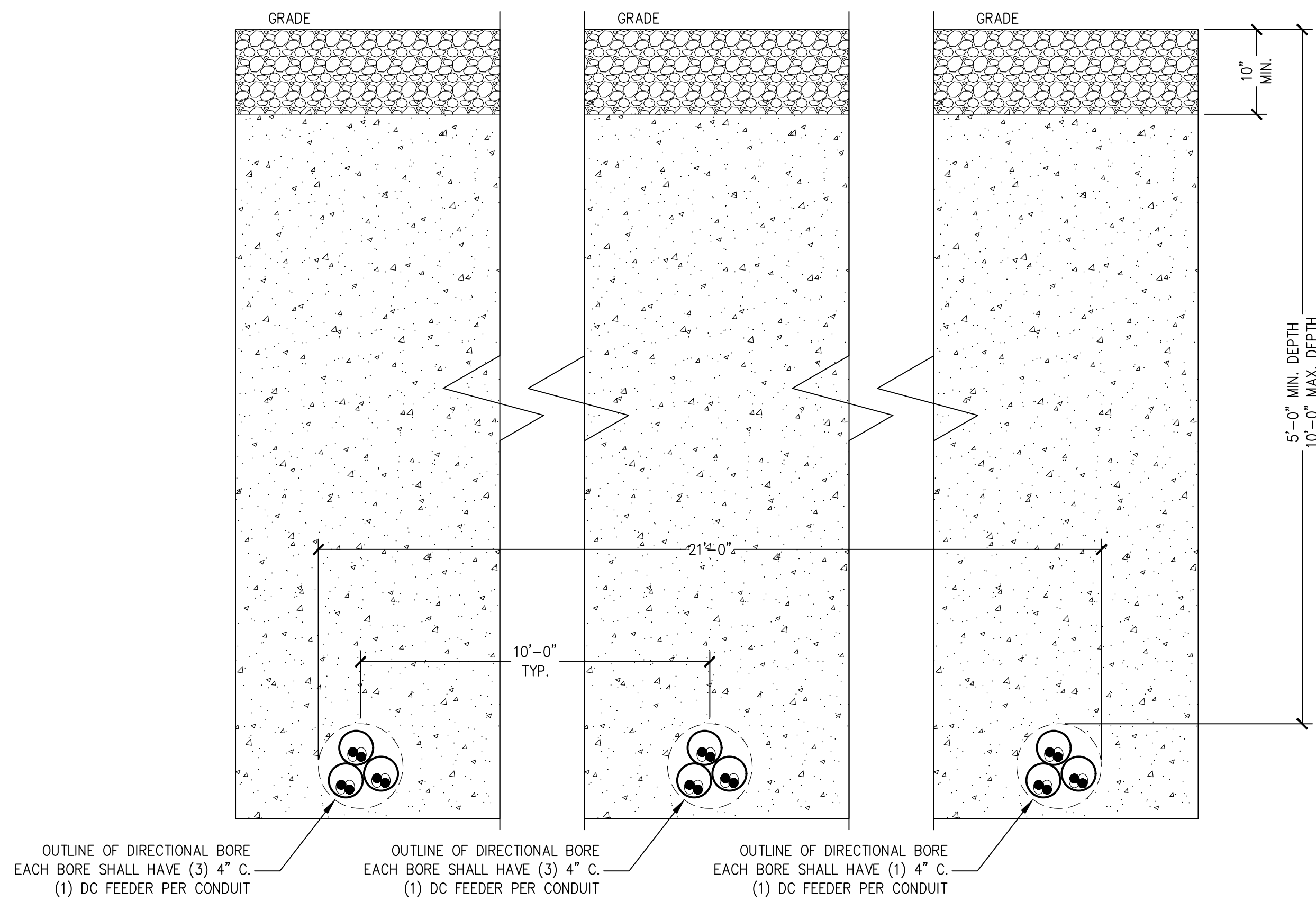
SCALE: NTS

2 UG STREAM/DITCH CROSSINGS

SCALE: NTS



- DIRECTIONAL BORE NOTES:**
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3 ROAD CROSSINGS

SCALE: NTS

4 ROAD CROSSINGS

SCALE: NTS

PROJECT TITLE:
**BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH**

SHEET TITLE:

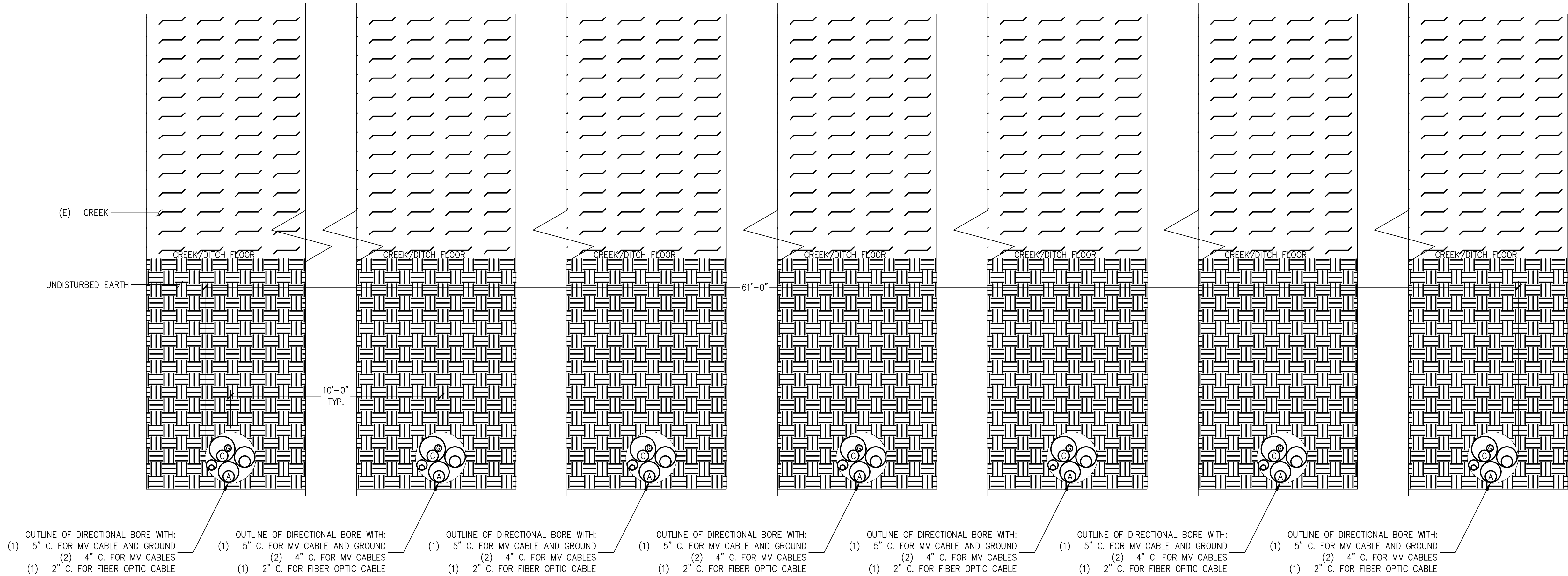
TRENCH SECTIONS

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: SSS	SCALE: AS SHOWN
SHEET NUMBER	

E-9.3

FOR CONSTRUCTION

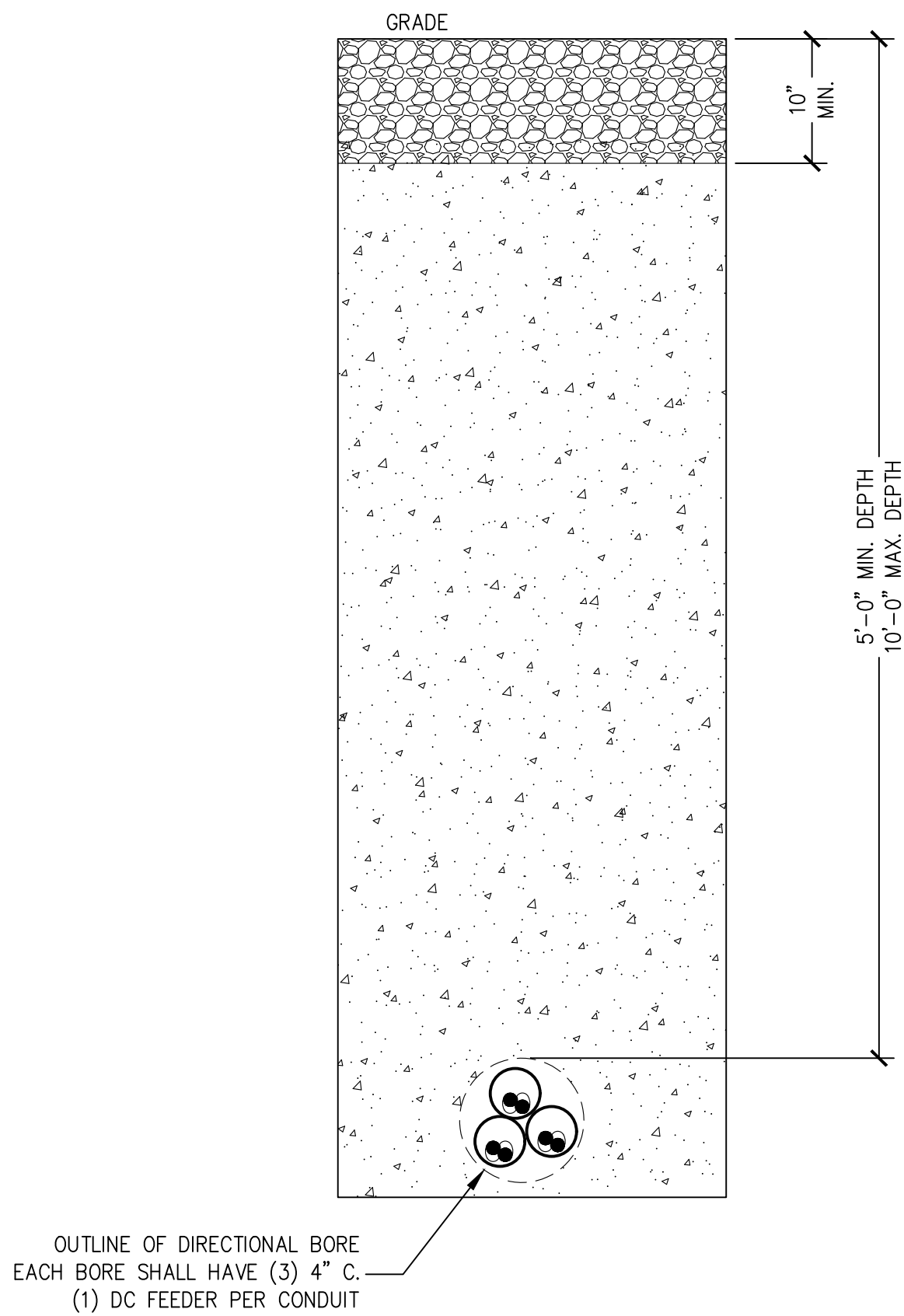
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DIRECTIONAL BORE NOTES:

1. CONTRACTOR SHALL NOTIFY EOR IF BORING WILL EXCEED MAX. DEPTH. CONDUCTORS MAY NEED TO BE UPSIZED.
2. ALL CONDUIT SHALL BE MIN. SCHEDULE 80 PVC UON.
3. CONDUIT SHALL NOT HAVE ANY BENDS HORIZONTALLY OR VERTICALLY WHILE CROSSING STREAM.
4. CONDUIT SHALL CROSS THE EASEMENT PERPENDICULAR TO STREAM.
5. BORE PIT BACKFILL COMPACTION SHALL BE 85% AT NON-ROADWAYS AND 95% AT ROADWAY AREAS.
6. BORE PIT TO BE LOCATED OUT OF ALL EASEMENTS.
7. PROVIDE PULL BOXES OR VAULTS ON EACH END WHERE REQUIRED FOR SPLICING CABLES.
8. CONFIRM CROSSING REQUIREMENTS WITH PIPELINE OWNER.
9. PLACE UNDERGROUND CABLE MARKER SIGN AT EACH CORNER OF THE RIGHT OF WAY CROSSING. SIGNS SHALL EXPLAIN THAT MULTIPLE MEDIUM VOLTAGE CABLES ARE BURIED BETWEEN THE SIGNS.

1 UG STREAM/DITCH CROSSINGS
SCALE: NTS



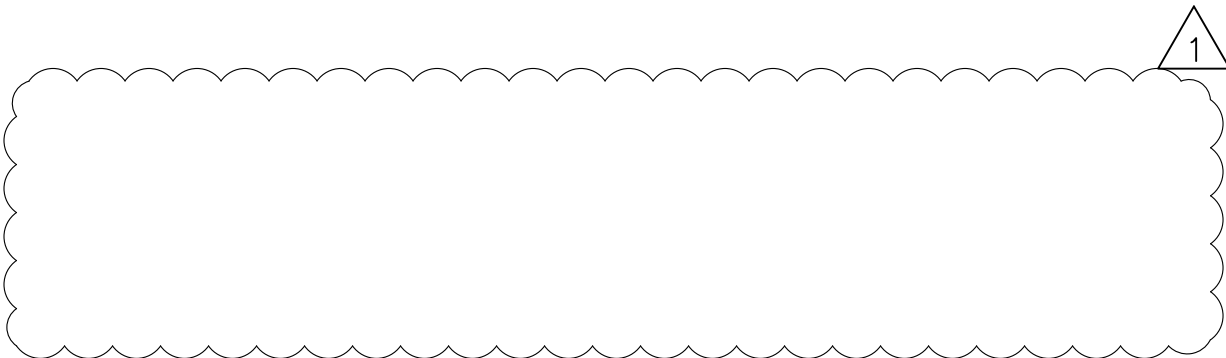
DIRECTIONAL BORE NOTES:

1. CONTRACTOR SHALL NOTIFY EOR IF BORING WILL EXCEED MAX. DEPTH. CONDUCTORS MAY NEED TO BE UPSIZED.
2. ALL CONDUIT SHALL BE MIN. SCHEDULE 80 PVC UON.
3. CONDUIT SHALL NOT HAVE ANY BENDS HORIZONTALLY OR VERTICALLY WHILE CROSSING ROAD.
4. CONDUIT SHALL CROSS THE EASEMENT PERPENDICULAR TO ROAD.
5. BORE PIT BACKFILL COMPACTION SHALL BE 85% AT NON-ROADWAYS AND 95% AT ROADWAY AREAS.
6. BORE PIT TO BE LOCATED OUT OF ALL EASEMENTS.
7. PLACE UNDERGROUND CABLE MARKER SIGN AT EACH CORNER OF THE RIGHT OF WAY CROSSING. SIGNS SHALL EXPLAIN THAT MULTIPLE MEDIUM VOLTAGE CABLES ARE BURIED BETWEEN THE SIGNS.
8. PROVIDE PULL BOXES OR VAULTS ON EACH END WHERE REQUIRED FOR SPLICING CABLES.
9. CONFIRM CROSSING REQUIREMENTS WITH A.H.J.
10. UTILITY SHALL BE WRAPPED WITH TRACER WIRE WITHIN THE WIDTH OF THE RIGHT-OF-WAY.

2 ROAD CROSSINGS
SCALE: NTS

GENERAL NOTES

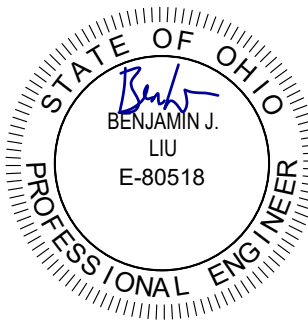
1. DETAILS SHOWS 5" CONDUIT FOR 1000 KMIL FEEDER AND GND WIRE. 750 KMIL AND LOWER MAY USE 4" CONDUIT.



CONSULTANT



STAMP/SEAL



REV #	DESCRIPTION	DATE
0	FOR PERMIT	04/22/2022
1	ISSUE FOR CONSTRUCTION	06/23/2022

PROJECT TITLE:

**BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH**

SHEET TITLE:

TRENCH SECTIONS

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: SSS	SCALE: AS SHOWN
SHEET NUMBER	

E-9.4

FOR CONSTRUCTION

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CONSTRUCTION
INNOVATIONS

PRODUCT INFORMATION SHEET

PATENT PENDING

Combiner
Harness

Commercial Wiring System

Construction Innovations' Combiner Harness is a highly configurable commercial wiring system designed to safely combine up to 6 conductors per node into a single output.



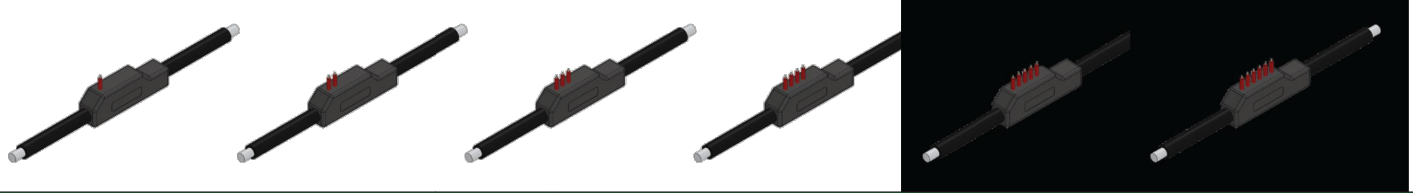
The Combiner Harness is custom-configured to your application. Variables include: feeder and tap conductor sizes and colors, quantity of nodes, and quantity of tap conductors. Plus, the harness can be extended or combined into infinite array possibilities, when the optional UL-listed butt-splice has been included.

FEATURES

- Rated for direct burial, above ground/suspended, or cable tray support installation
- Up to 6 taps/node
- Plug 'n' Play system allows for tool-free installation
- Listed to UL 9703 for 1500V systems

OPTIONS

- Feeder and tap conductor sizes & colors
- Quantity of nodes/harness
- Butt-splice
- Distance between nodes



Technical Information	Combiner Harness
Voltage Rating	1500VDC/AC Max
Max. Overcurrent Protection (Feeder Conductor)	600A
Max. Overcurrent Protection (Tap)	45A
Max Feeder Conductor Size	750 kcmil
Number of Input Circuits	Customer Specific



MADE IN THE USA



UL LISTED

constructioninnovations.com

10630 Mathew Blvd., #200, Mathew, CA 95055 // 855.725.9555

Innovate to Simplify®

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1

DC COMBINER HARNESS

E-11.1

SCALE: NTS

FOR CONSTRUCTION



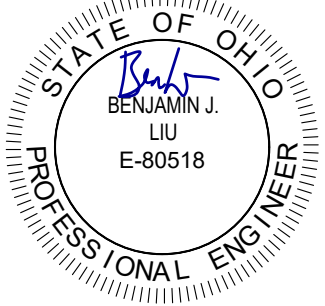
CONSULTANT



BLYMYER
ENGINEERS

1101 MARINA VILLAGE PARKWAY #100
ALAMEDA, CA 94501 510.521.3773

STAMP/SEAL



REV #	DESCRIPTION	DATE
0	FOR PERMIT	04/22/2022
1	ISSUE FOR CONSTRUCTION	06/23/2022

PROJECT TITLE:

BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH

SHEET TITLE:

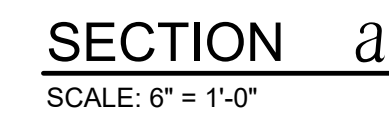
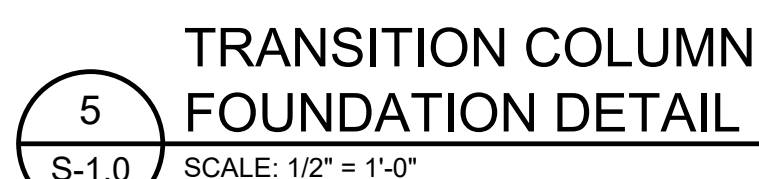
EQUIPMENT SPECIFICATIONS

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: SSS	SCALE: NTS
SHEET NUMBER	

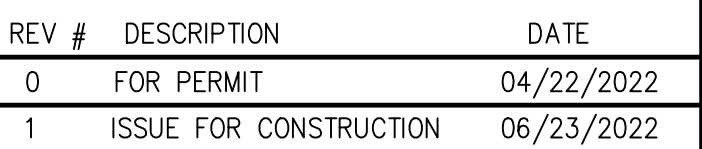
E-11.0



1. STEEL VERIFICATION AND INSPECTION: REFER TO 2018 IBC SECTION 1705.2
2. PROJECT APPLICANT TO COORDINATE ANY APPLICABLE FORMS AND PROCEDURES WITH THE BUILDING DEPARTMENT.

[illegible]

FOR CONSTRUCTION



STRUCTURAL DETAILS FIRST SOLAR SERIES 6

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: LW	SCALE: AS NOTED
SHEET NUMBER	

S-1.0



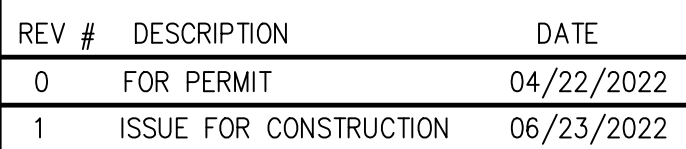
A triangle with a vertical line segment inside it, labeled '1'.



STRUCTURAL DETAILS FIRST SOLAR SERIES 4

FOR CONSTRUCTION

S-1.1



BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH

SHEET TITLE:

JOB NO.: 222018	PROJECT MGR: CG
DRAWN: LW	SCALE: AS NOTED
SHEET NUMBER	

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STEEL NOTES

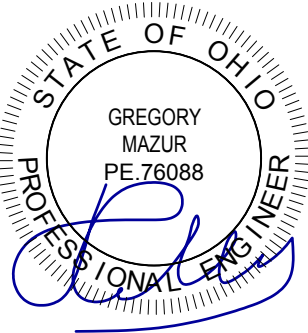
1. REFER TO S-1 FOR STEEL NOTES.



CONSULTANT



STAMP/SEAL



REV #	DESCRIPTION	DATE
0	FOR PERMIT	04/22/2022
1	ISSUE FOR CONSTRUCTION	06/23/2022

PROJECT TITLE:
BIG PLAIN
SINGLE-AXIS TRACKER
PHOTOVOLTAIC ARRAYS
196 MWAC
MADISON COUNTY, OH

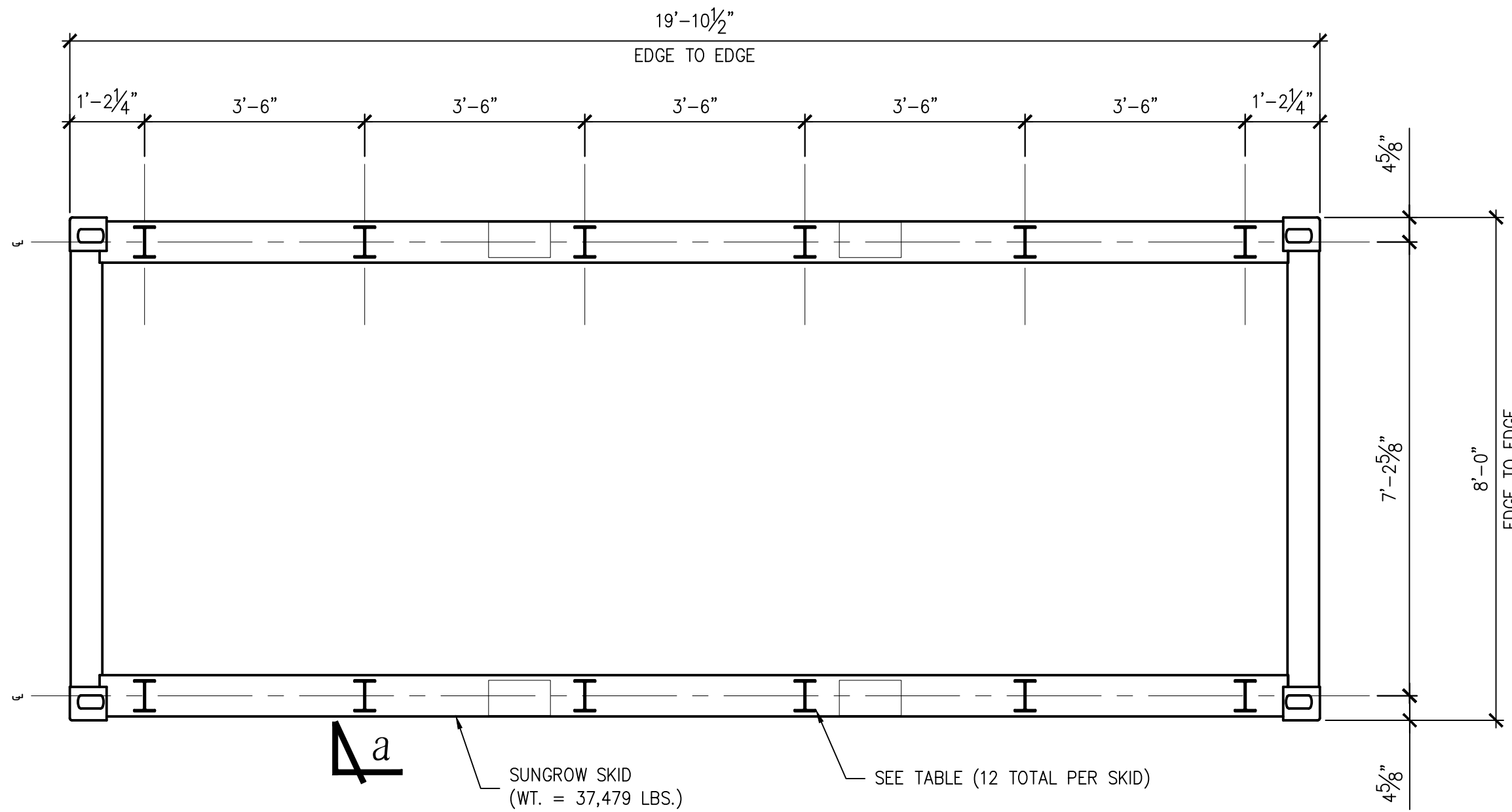
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STRUCTURAL DETAILS

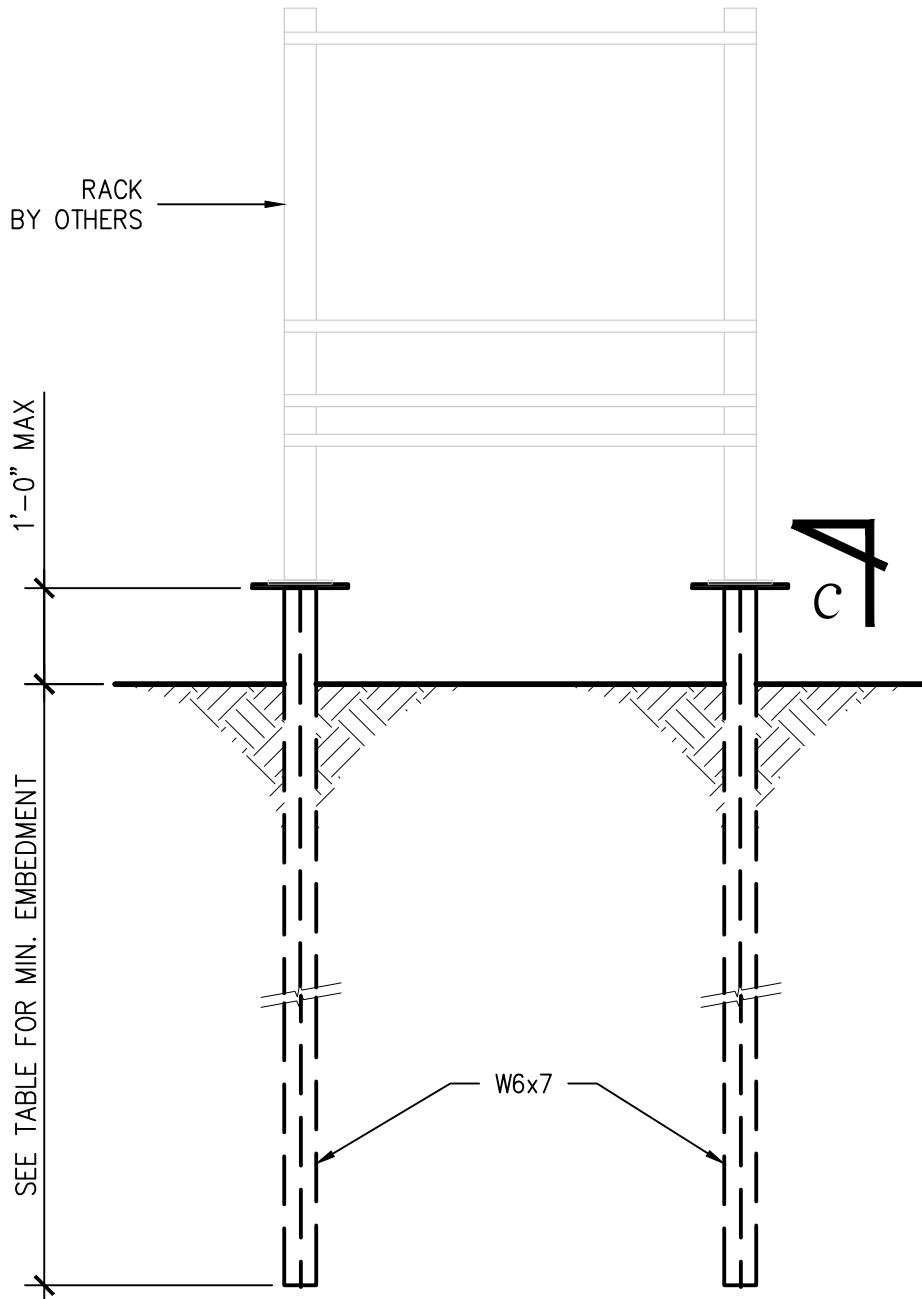
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DRAWN: KS	SCALE: AS NOTED
SHEET NUMBER	

S-2.0

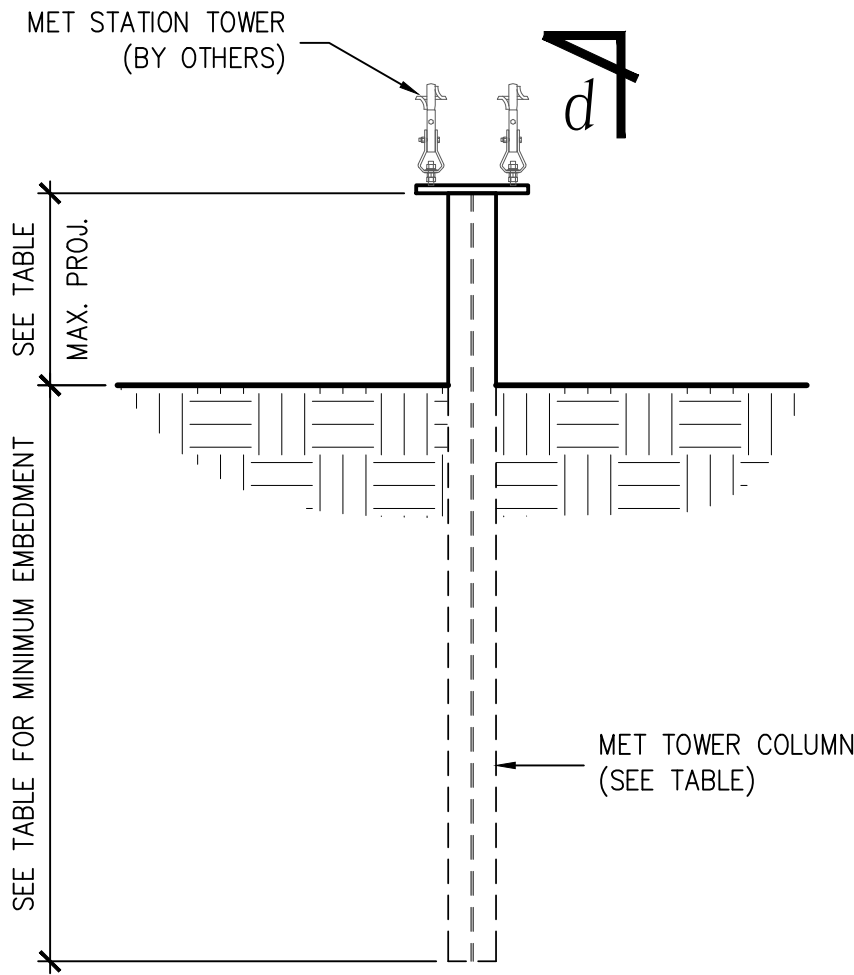
FOR CONSTRUCTION



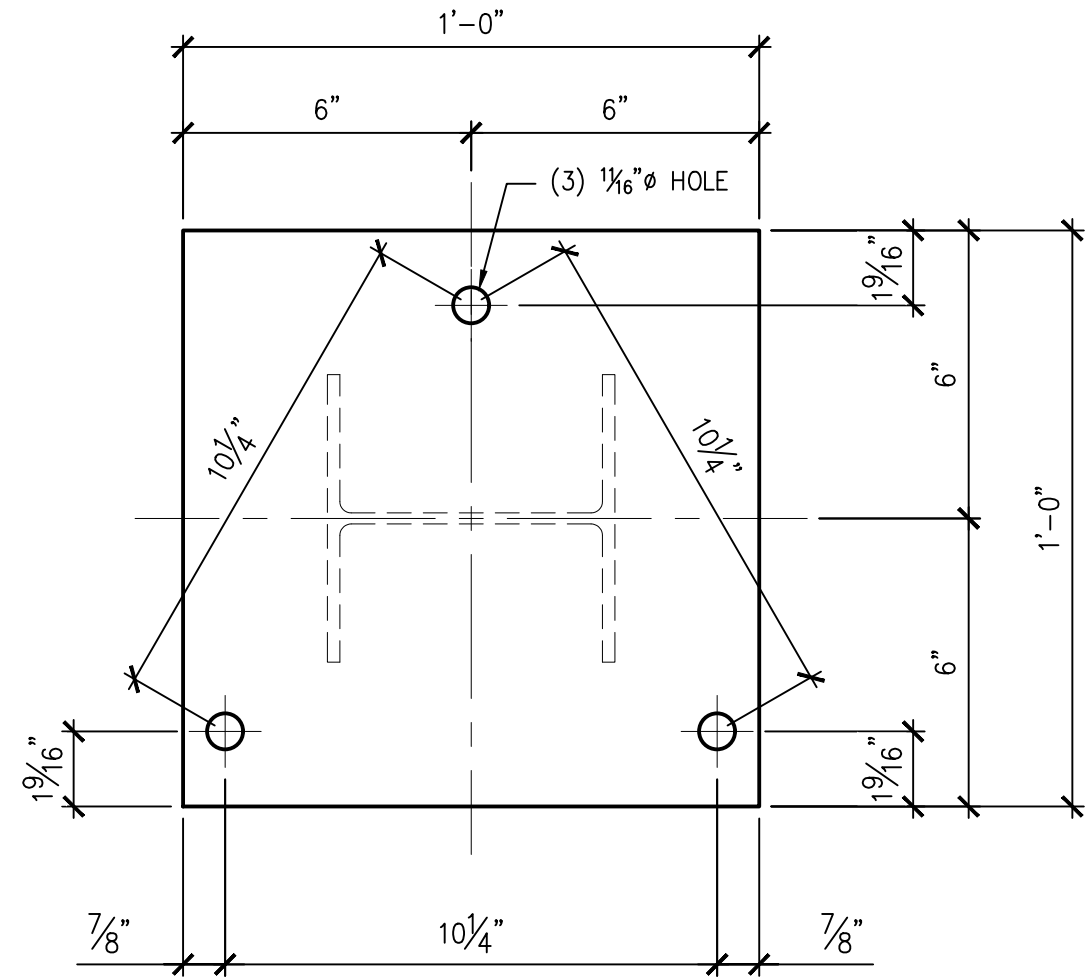
1 INVERTER SKID PLAN
S-2.0 SCALE: 1/2" = 1'-0"



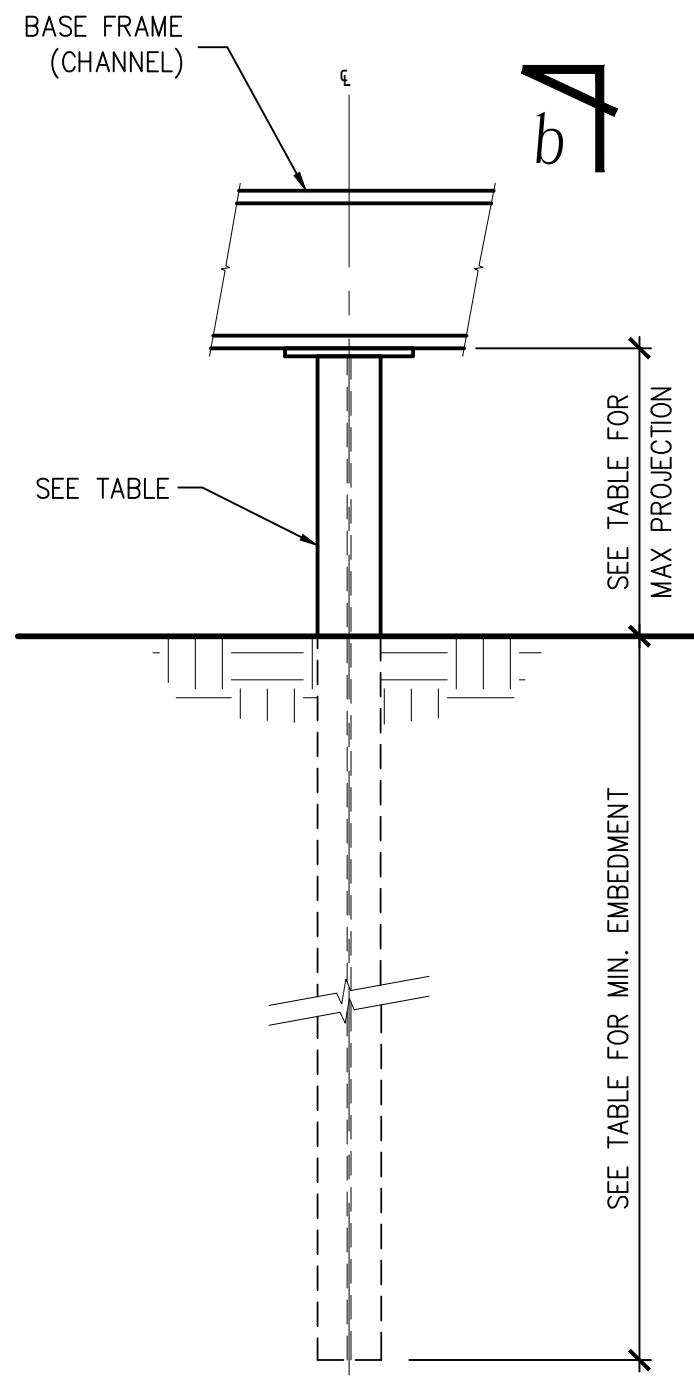
2 POWER/SCADA RACK PILES
S-2.0 SCALE: 1/2" = 1'-0"



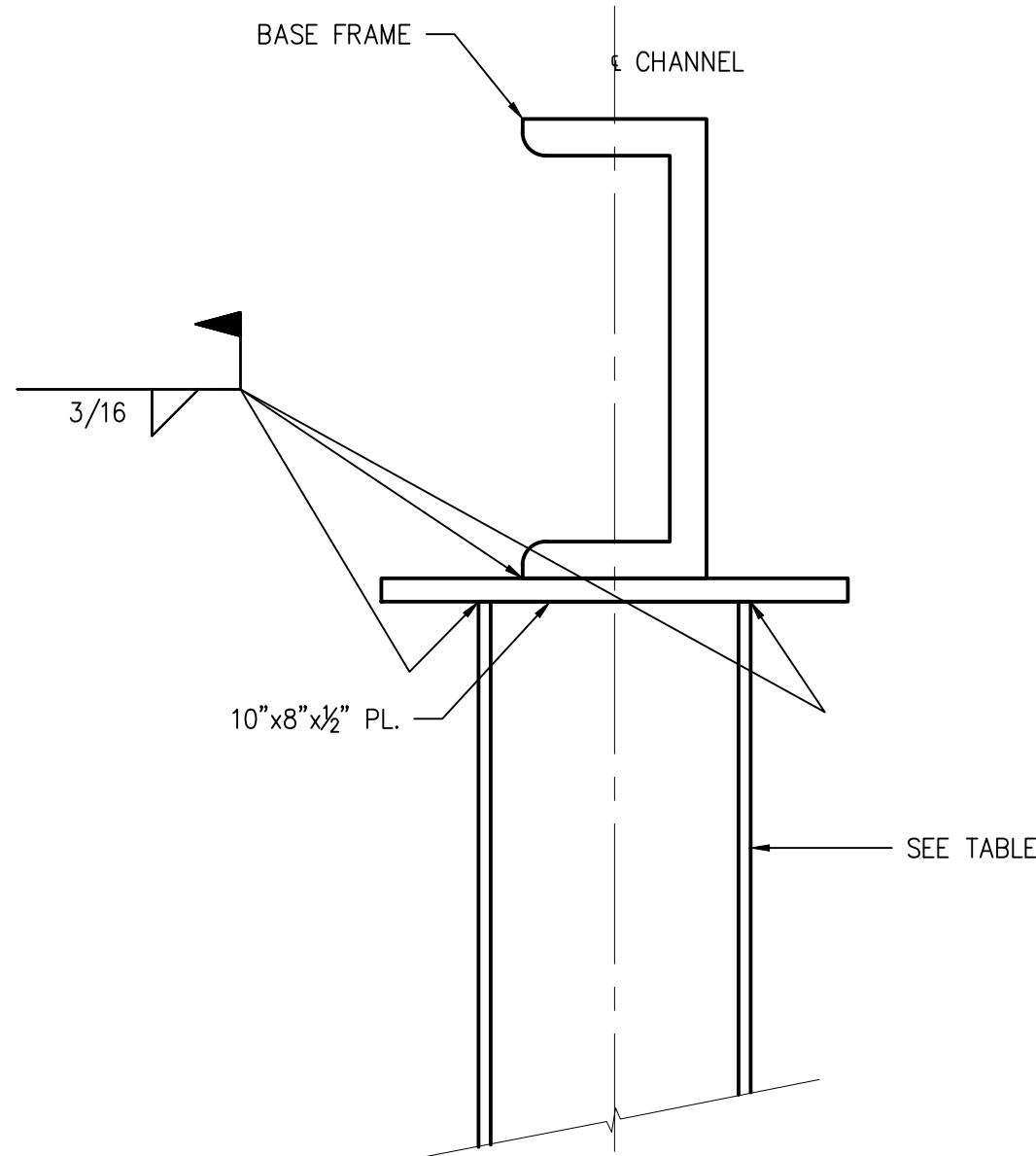
3 MET TOWER COLUMN
S-2.0 SCALE: 1/2" = 1'-0"



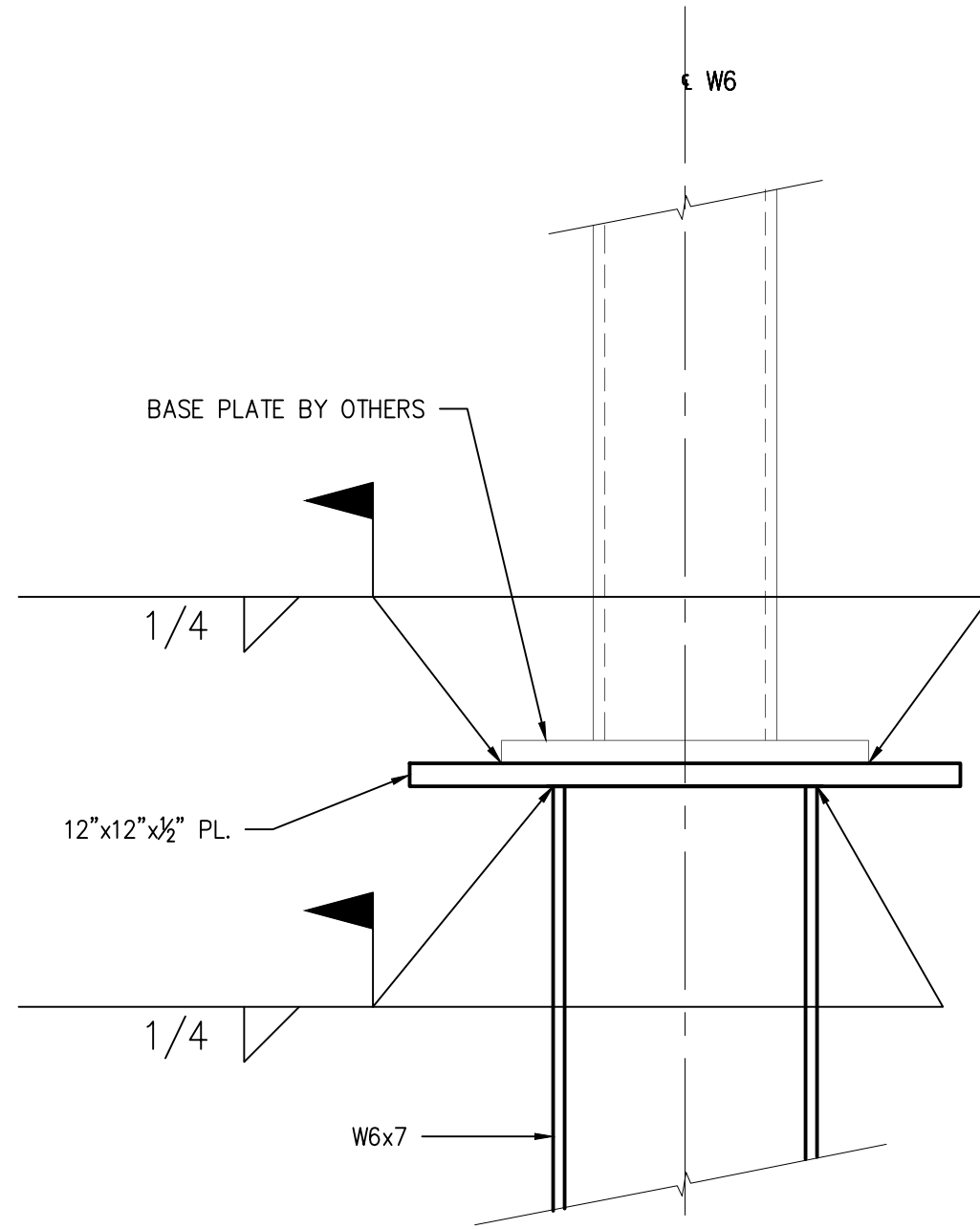
PLAN VIEW



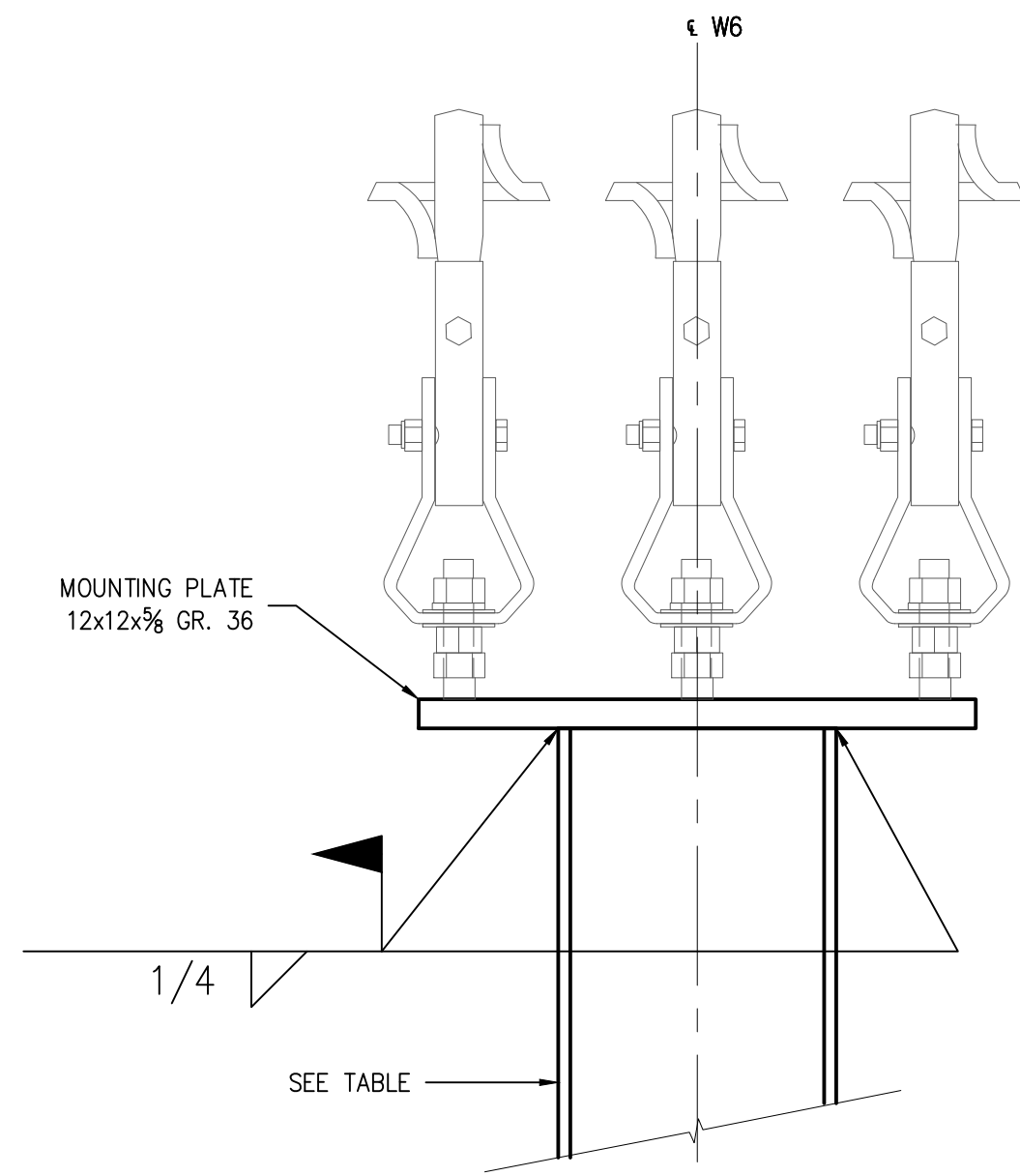
SECTION a
SCALE: 1" = 1'-0"



SECTION b
SCALE: 3" = 1'-0"



SECTION c
SCALE: 3" = 1'-0"



SECTION d
SCALE: 3" = 1'-0"

	SKID COLUMN			POWER/SCADA RACK COLUMN			MET TOWER COLUMN		
SCOUR	COLUMN SIZE	MAX. PROJECTION	MIN. EMBEDMENT	COLUMN SIZE	MAX. PROJECTION	MIN. EMBEDMENT	COLUMN SIZE	MAX. PROJECTION	MIN. EMBEDMENT
0'	W6x7	2'-0"	12'-0"	W6x7	1'-0"	9'-0"	W6x15	2'-0"	9'-0"
1'-6"				W6x7	1'-0"	10'-6"	W6x15	2'-0"	10'-6"
2'-0"				W6x7	1'-0"	11'-0"	W6x15	2'-0"	11'-0"

1

**This foregoing document was electronically filed with the Public Utilities
Commission of Ohio Docketing Information System on**

9/22/2022 3:25:06 PM

in

Case No(s). 21-1196-EL-BGA, 19-1823-EL-BGN

Summary: Notice Compliance with Condition 8 - filing of detailed engineering drawings electronically filed by Mr. Joseph D. Jordan on behalf of Big Plain Solar, LLC