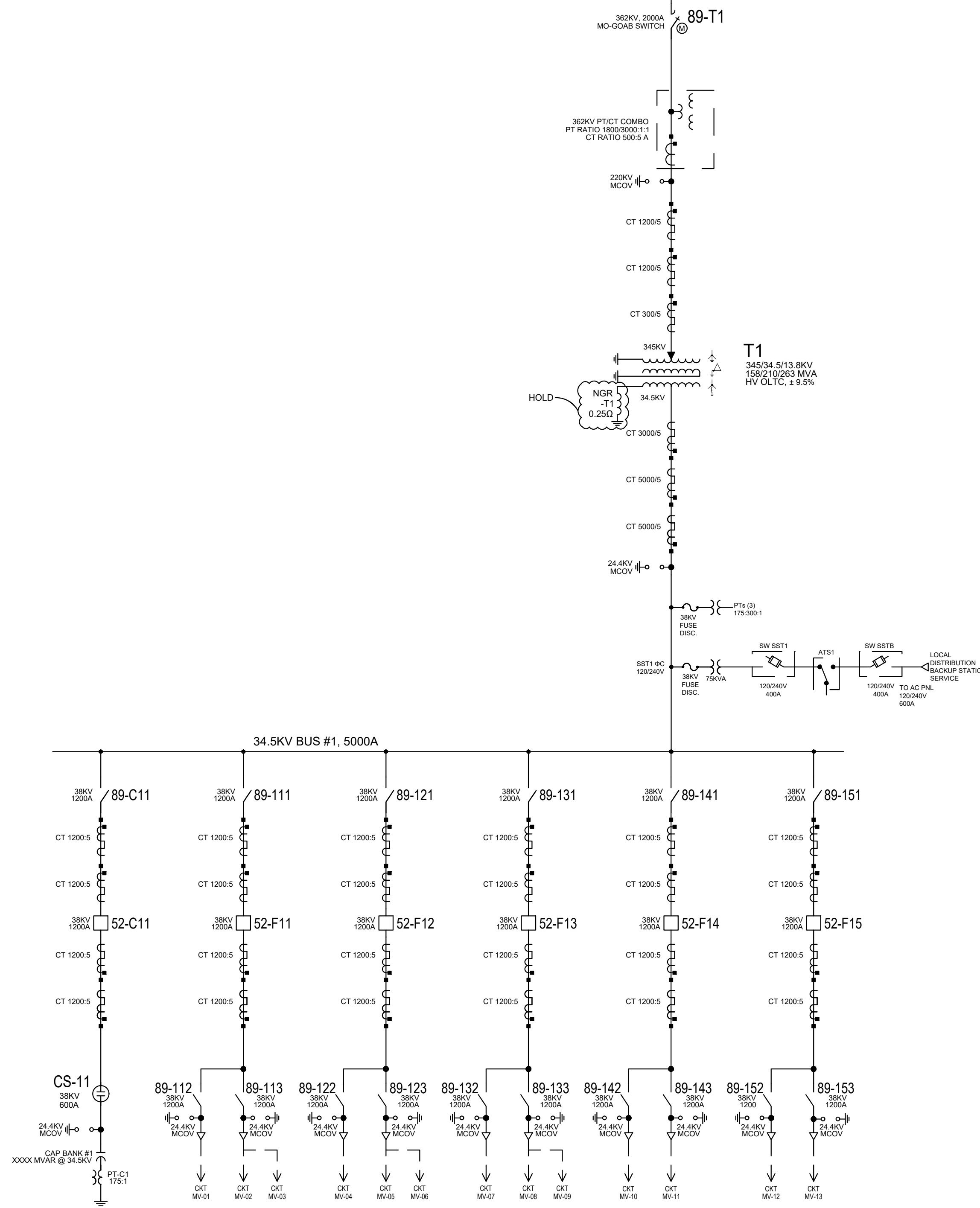
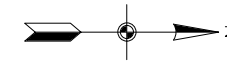
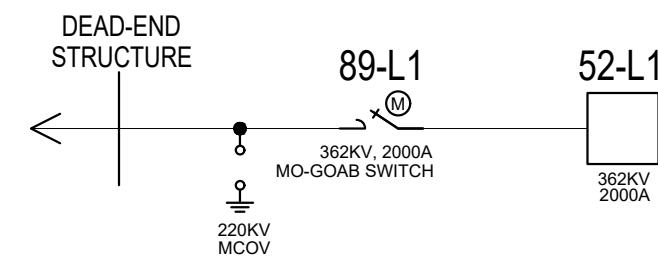


345KV LINE MILL POINT SWITCHYARD POI



LEGEND:

- SST - STATION SERVICE TRANSFORMER
- LTC - LOAD TAP CHANGER
- ▽ - TRANSITION TO UNDERGROUND CABLE
- - UNDERGROUND CABLE
- ⚡ - SURGE ARRESTER
- ⚡ - MOTOR OPERATED GROUP AIR BREAK SWITCH
- ⚡ - POTENTIAL TRANSFORMER/VOLTAGE TRANSFORMER
- ⚡ - CT/PT COMBO INSTRUMENT TRANSFORMER
- ⊕ - CAPACITOR SWITCHER
- ⊞ - CIRCUIT BREAKER
- ⊞ - LOW VOLTAGE FUSED DISCONNECT SWITCH
- ⊞ - LOW VOLTAGE AUTOMATIC TRANSFER SWITCH
- ⊞ - FUSED DISCONNECT SWITCH
- ⊞ - CAPACITOR BANK
- ⚡ - THREE WINDING MAIN POWER TRANSFORMER (WYE-WYE WITH BURIED DELTA TERTIARY)



PRELIMINARY
NOT FOR CONSTRUCTION

NOTE:
1. DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC, LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
2. UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

TRC		10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269	
REV	DESCRIPTION	DATE	DES	CHK	APP
D	RE-ISSUE FOR 84-C	01/15/24	TB	CT	JTB
C	ISSUED FOR 84-C	10/20/23	TB	CT	
B	RE-ISSUED FOR REVIEW	10/05/23	TB	CT	
A	ISSUE FOR REVIEW	08/30/23	TB	CT	

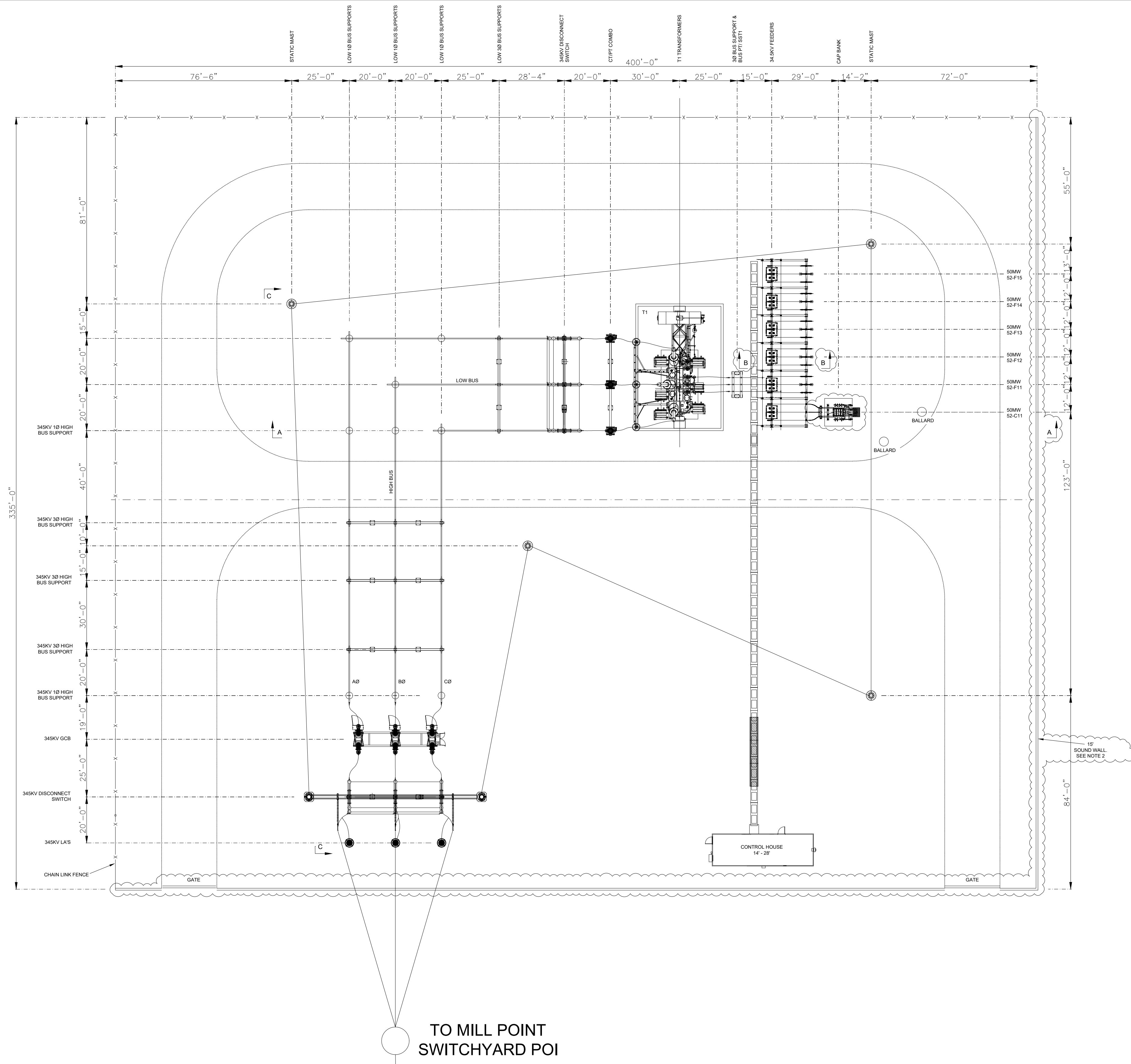
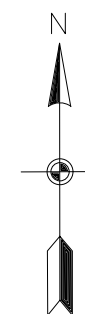


TB	DESIGNED
EL	DRAWN
CT	CHECKED
JTB	APPROVED
REVIEW 1	01/15/24 DATE
REVIEW 2	N.T.S. SCALE

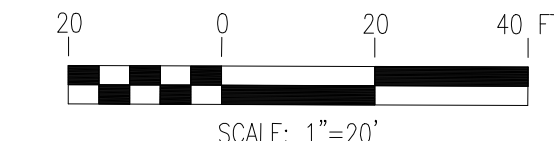
MILL POINT SOLAR 34.5/345KV COLLECTOR SUBSTATION ONE-LINE DIAGRAM (ELECTRICAL)

TRC MPS-E-201-00

REV. D



TO MILL POINT SWITCHYARD POI



LEGEND:
 ——— SOUND WALL
 - x - FENCE

DESIGN CRITERIA:
 345KV CLEARANCE: (1300 KV BIL)
 LIVE PARTS: MIN Ø-G = 104"
 MIN Ø-Ø = 119"
 BUS MIN LOW = 324"
 BUS MIN HIGH = XXX"
 34.5 KV CLEARANCE: (200 KV BIL)
 LIVE PARTS: MIN Ø-G = 13"
 MIN Ø-Ø = 18"
 TO GRADE: MIN 10'-0" (BUS)
 MIN 22'-0" (DRIVEWAY)

NOTE:
 1. DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC., LLC. CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
 2. UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



PRELIMINARY
 NOT FOR CONSTRUCTION

TRC		10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269		
REV	DESCRIPTION	DATE	DES	CHK	APP	
C	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB	
B	ISSUE FOR 94-C	10/20/23	TB	CT		
A	ISSUE FOR REVIEW	08/30/23	TB	CT		



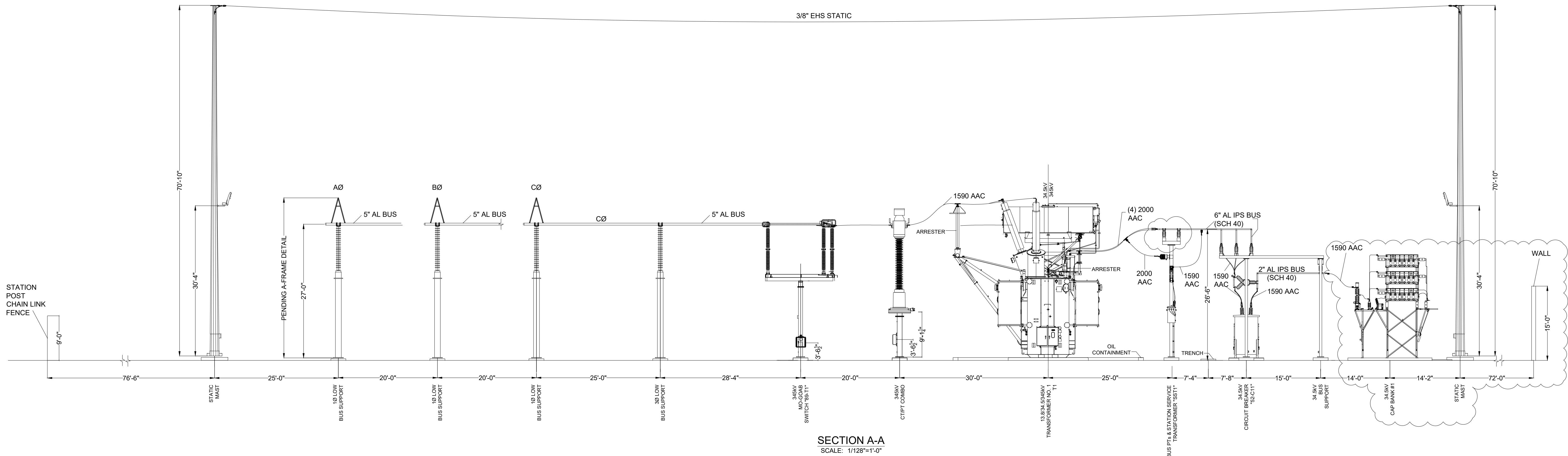
TB DESIGNED
 EL DRAWN
 CT CHECKED
 JTB APPROVED

MILL POINT SOLAR 345/34.5KV COLLECTOR SUBSTATION GENERAL ARRANGEMENT
 (PHYSICAL)
 MONTGOMERY CO. NEW YORK

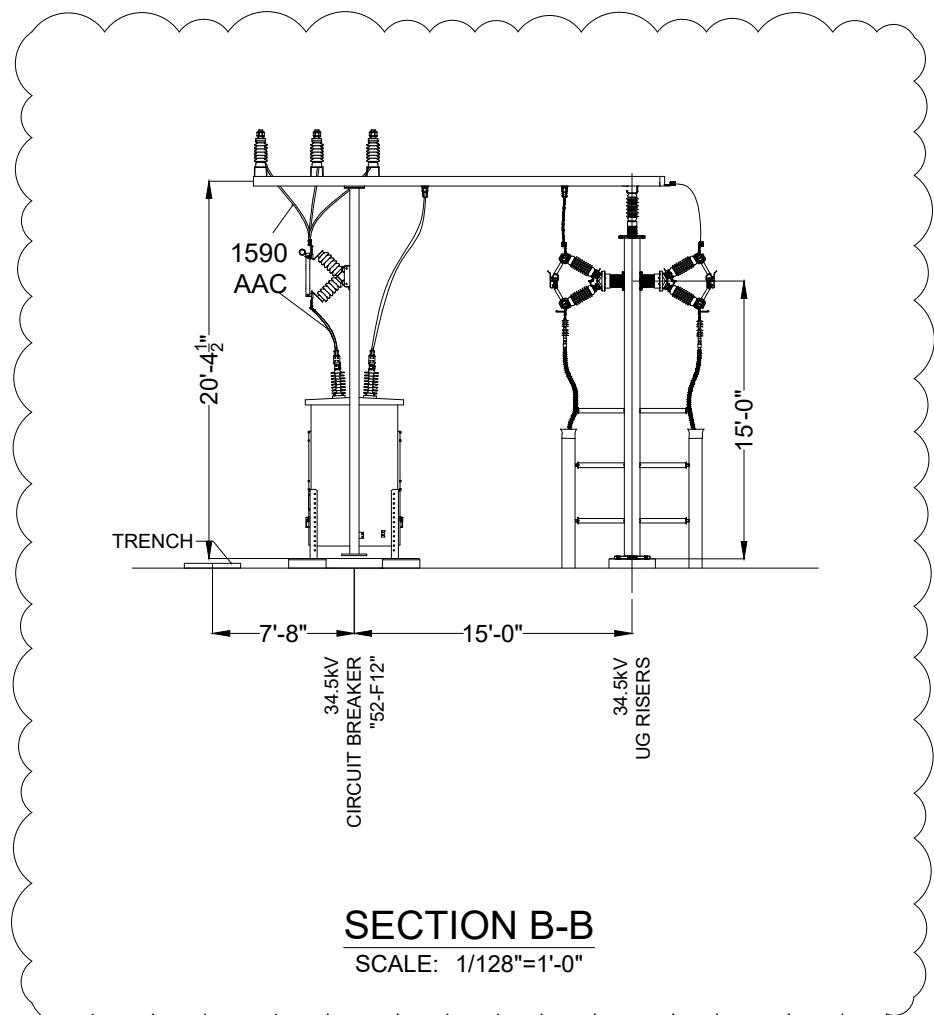
DATE: 01/15/24
 SCALE: 1"=20'

TRC MPS-E-210-01

REV. C



SECTION A-A
SCALE: 1/128"=1'-0"



SECTION B-B
SCALE: 1/128"=1'-0"

DESIGN CRITERIA:

34.5kV CLEARANCE: (1300 kV BIL)

LIVE PARTS: MIN Ø-G = 104"
MIN Ø-Ø = 119"

34.5 kV CLEARANCE: (200 kV BIL)

LIVE PARTS: MIN Ø-G = 13"
MIN Ø-Ø = 18"

TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

NOTE:

- DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC, LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
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PRELIMINARY
NOT FOR CONSTRUCTION

TRC		10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269	
REV	DESCRIPTION	DATE	DES	CHK	APP
C	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB
B	ISSUE FOR 94-C	10/20/23	TB	CT	
A	ISSUE FOR REVIEW	08/30/23	TB	CT	



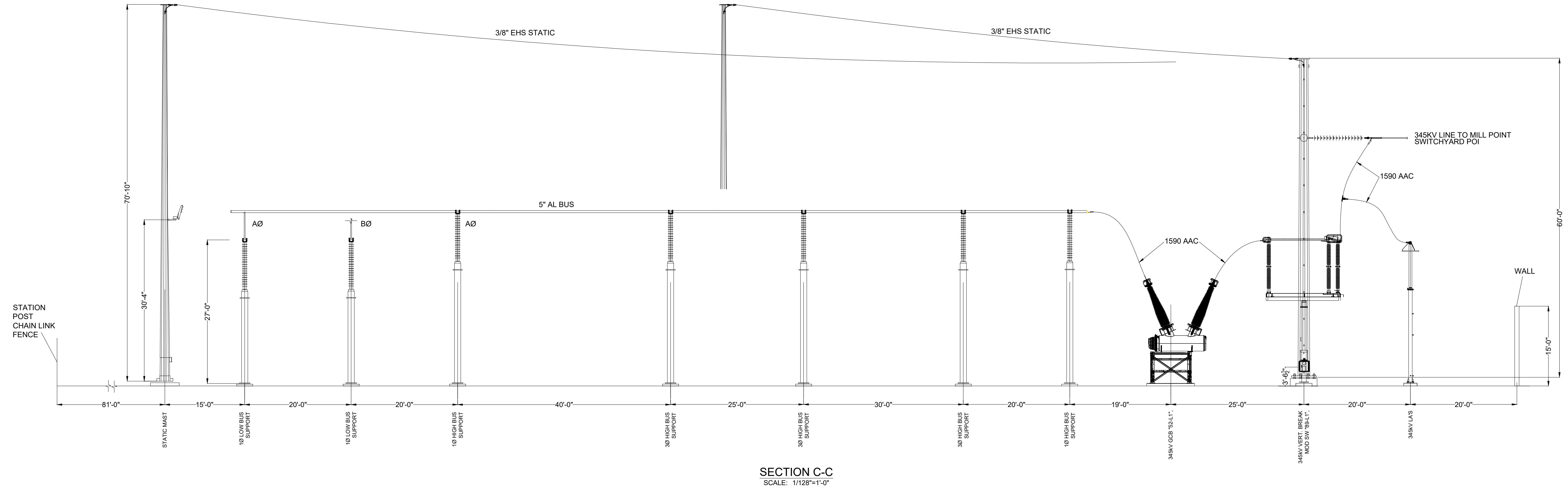
TB	DESIGNED
EL	DRAWN
CT	CHECKED
JTB	APPROVED

MILL POINT SOLAR 34.5/345KV COLLECTOR SUBSTATION SECTION A-A, B-B (PHYSICAL)

01/15/24 DATE
1/128" = 1'-0" SCALE

TRC MPS-E-210-02

REV. C



SECTION C-C
SCALE: 1/128"=1'-0"

DESIGN CRITERIA:

345kV CLEARANCE: (1300 kV BIL)

LIVE PARTS: MIN Ø-G = 104"
MIN Ø-Ø = 119"

34.5 kV CLEARANCE: (200 kV BIL)

LIVE PARTS: MIN Ø-G = 13"
MIN Ø-Ø = 18"

TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

- NOTE:**
- DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC, LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
 - UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



PRELIMINARY
NOT FOR CONSTRUCTION

TRC		10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269	
REV	DESCRIPTION	DATE	DES	CHK	APP
C	RE-ISSUE FOR 94-C	01/15/24	TB	CT	.
B	ISSUE FOR 94-C	10/20/23	TB	CT	.
A	ISSUE FOR REVIEW	08/30/23	TB	CT	.



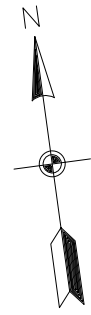
TB	DESIGNED
EL	DRAWN
CT	CHECKED
JTB	APPROVED

MILL POINT SOLAR 34.5/345KV COLLECTOR SUBSTATION SECTION C-C (PHYSICAL)

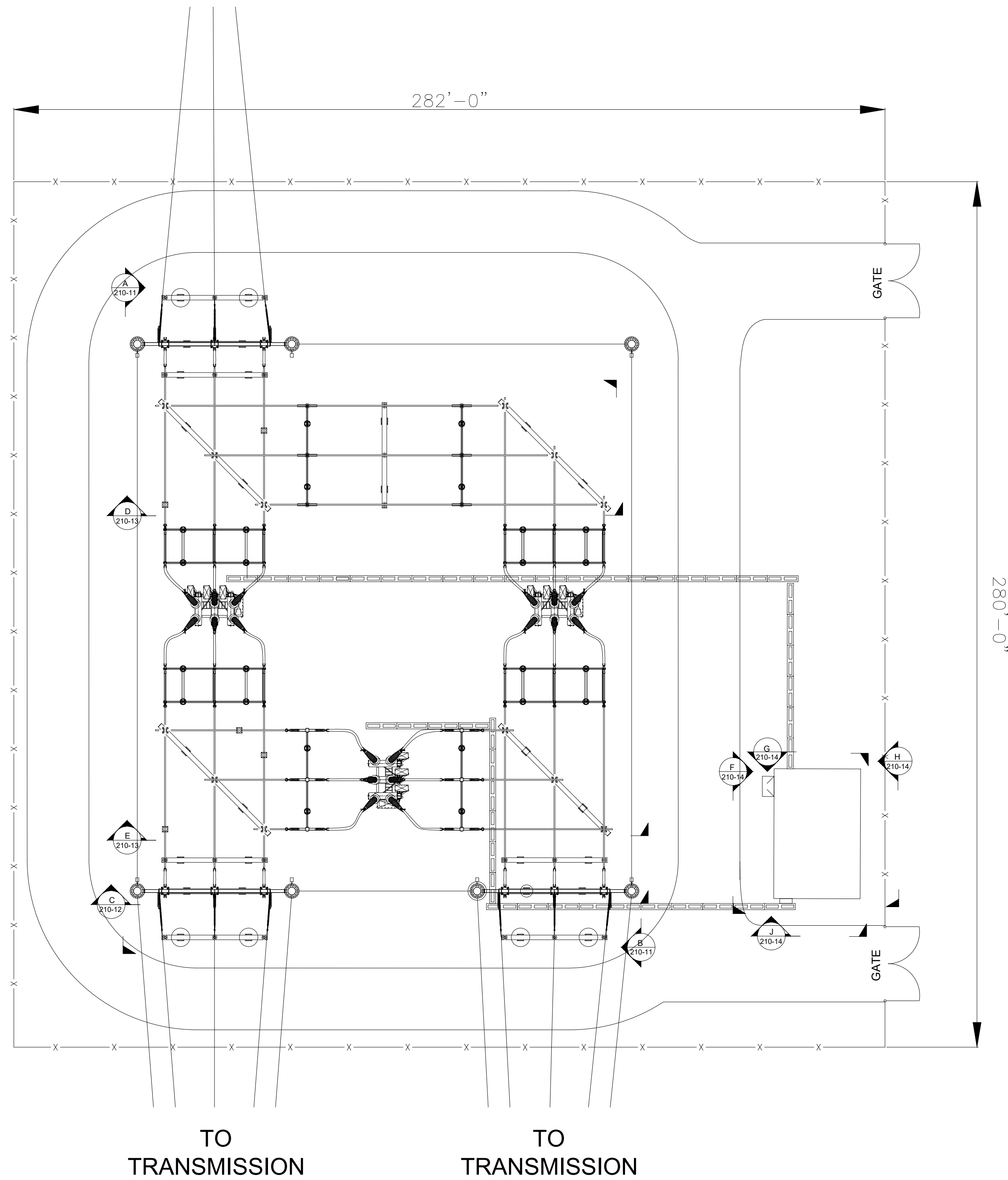
DATE: 01/15/24
SCALE: 1/128" = 1'-0"

TRC MPS-E-210-03

REV. 1	REV. 2	REV. 3
		C



TO MILL POINT
COLLECTOR SUBSTATION



DESIGN CRITERIA:
 345KV CLEARANCE: (1300 KV BIL)
 LIVE PARTS: MIN Ø-G = 104"
 MIN Ø-Ø = 119"
 TO GRADE: 10'-0" (BUS)
 22'-0" (DRIVEWAY)

NOTE:

- DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC, LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
- UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



PRELIMINARY
NOT FOR CONSTRUCTION

TRC		10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269		
REV	DESCRIPTION	DATE	DES	CHK	APP	
D	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB	
C	ISSUE FOR 94-C	10/20/23	TB	CT		
B	RE-ISSUE FOR CLIENT REVIEW	09/06/23	TB	CT		
A	ISSUE FOR REVIEW	08/30/23	TB	CT		



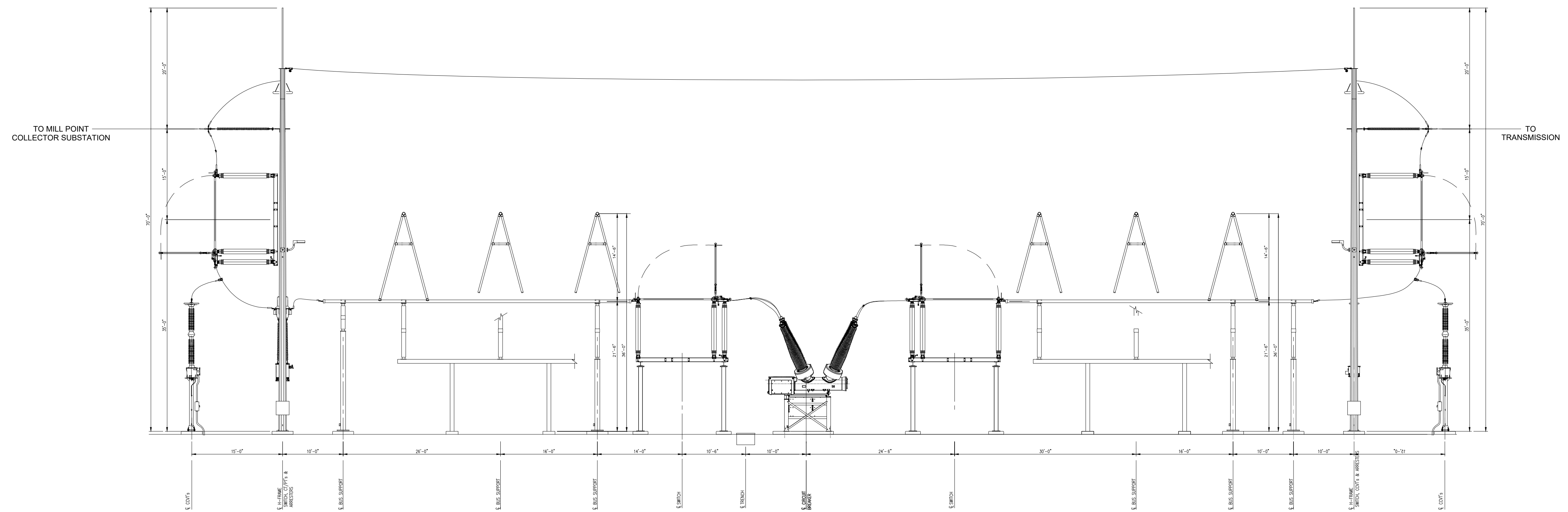
TB	DESIGNED
EL	DRAWN
CT	CHECKED
JTB	APPROVED
REVIEW 1	DATE
REVIEW 2	NTS SCALE

**MILL POINT SOLAR 345KV
POI SWITCHYARD
GENERAL ARRANGEMENT**

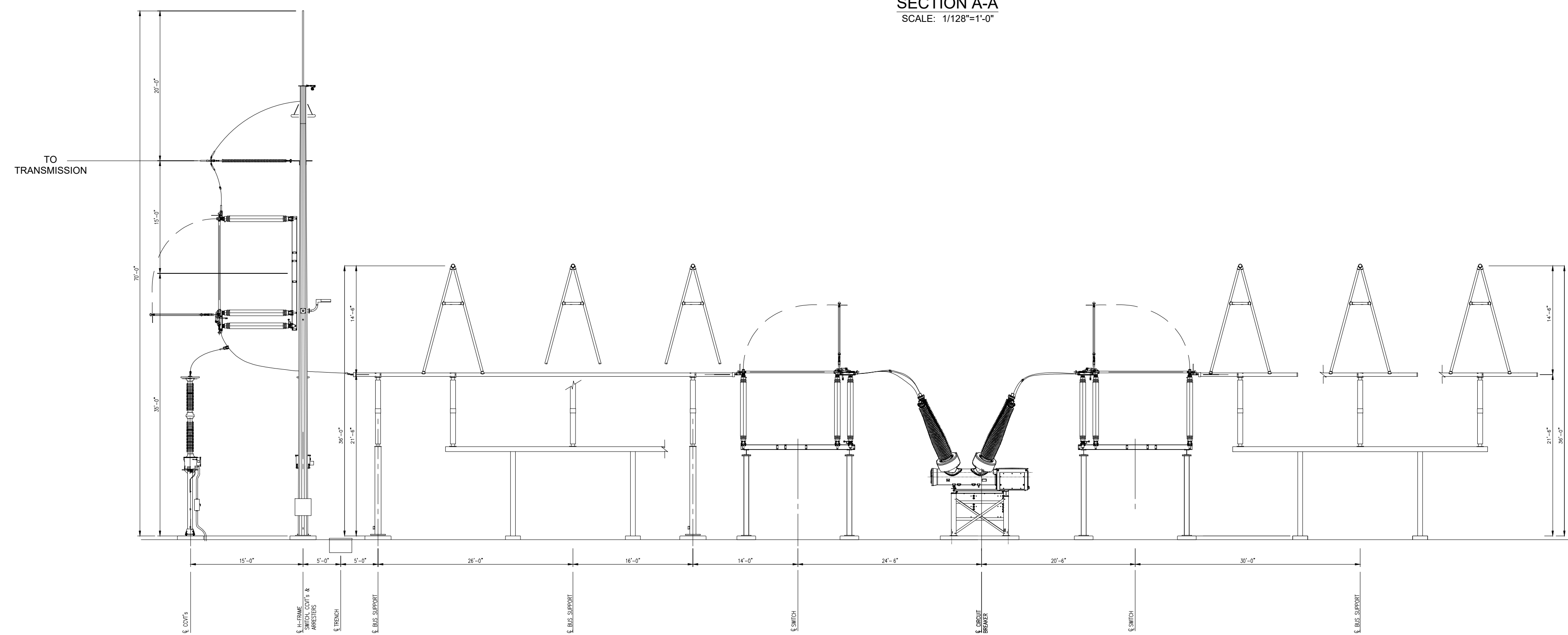


MPS-E-210-10

REV. D



SECTION A-A
SCALE: 1/128"=1'-0"



SECTION B-B
SCALE: 1/128"=1'-0"

DESIGN CRITERIA:
 345kV CLEARANCE: (1300 kV BIL)
 LIVE PARTS: MIN Ø-G = 104"
 MIN Ø-Ø = 119"
 TO GRADE: 10'-0" (BUS)
 22'-0" (DRIVEWAY)

NOTE:
 1. DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025. TRC ENGINEERS, INC. LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
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PRELIMINARY
NOT FOR CONSTRUCTION

TRC 10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269			
REV	DESCRIPTION	DATE	DES	CHK	APP
D	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB
C	ISSUE FOR 94-C	10/20/23	TB	CT	.
B	RE-ISSUE FOR REVIEW	10/06/23	TB	CT	.
A	ISSUE FOR REVIEW	09/06/23	TB	CT	.

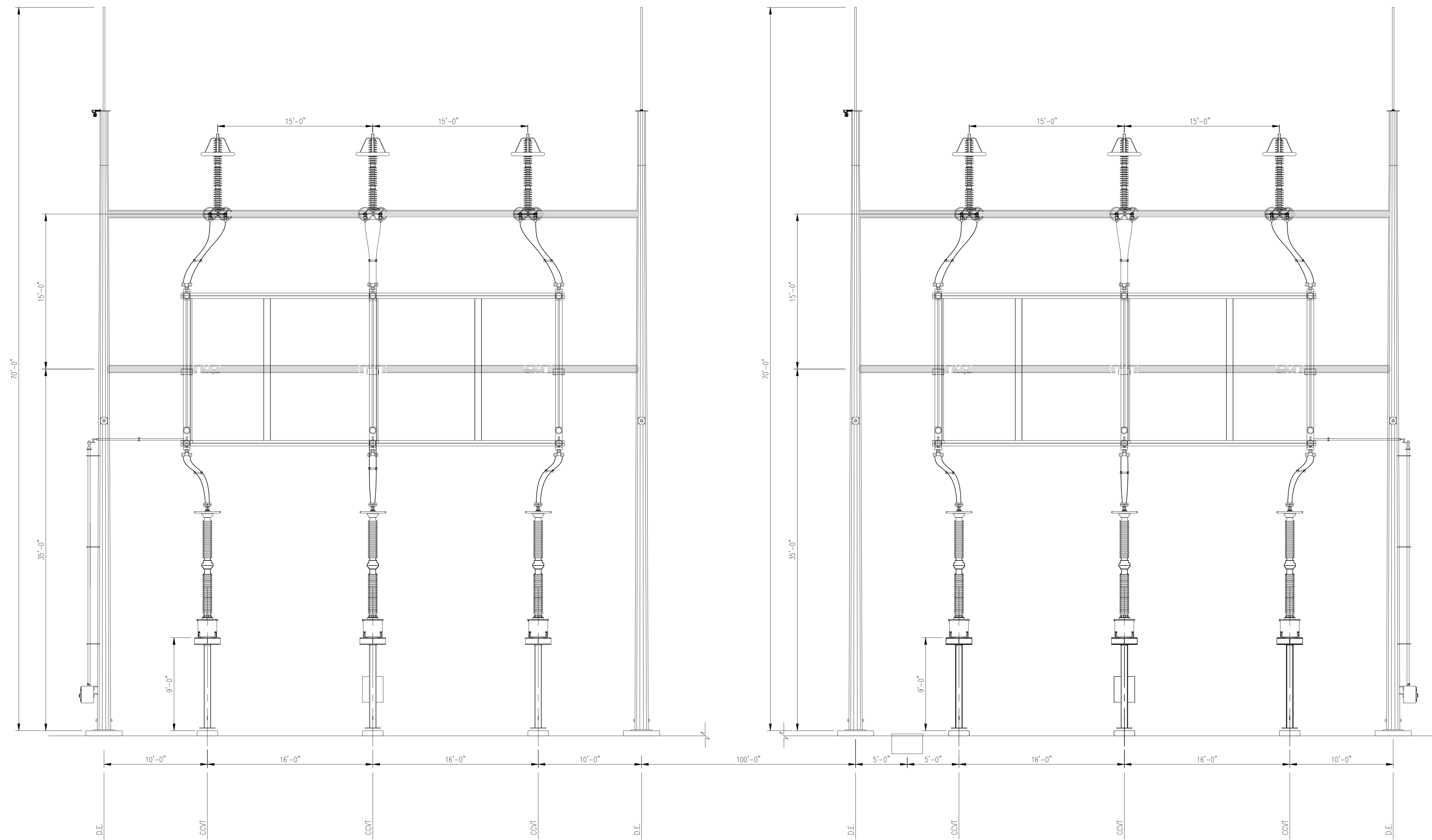


TB	DESIGNED
EL	DRAWN
CT	CHECKED
JTB	APPROVED
REVIEW 1	01/15/24
REVIEW 2	1/128" = 1'-0" SCALE

**MILL POINT SOLAR 34.5/345KV
POI SWITCHYARD
SECTION A-A & B-B
(PHYSICAL)**

TRC MPS-E-210-11

REV. D



SECTION C-C
SCALE: 1/64"=1'-0"

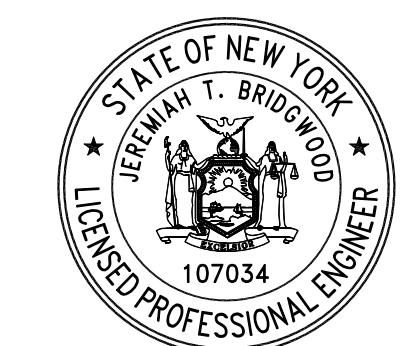
DESIGN CRITERIA:
 345kV CLEARANCE: (1300 kV BIL)
 LIVE PARTS: MIN Ø-G = 104"
 MIN Ø-Ø = 119"
 TO GRADE: 10'-0" (BUS)
 22'-0" (DRIVEWAY)

NOTE:
 1. DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC, LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
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PRELIMINARY
NOT FOR CONSTRUCTION

TRC		10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269	
REV	DESCRIPTION	DATE	DES	CHK	APP
D	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB
C	ISSUE FOR 94-C	10/20/23	TB	CT	.
B	RE-ISSUE FOR REVIEW	10/06/23	TB	CT	.
A	ISSUE FOR REVIEW	09/06/23	TB	CT	.



TB
DESIGNED
EL
DRAWN
CT
CHECKED
JTB
APPROVED

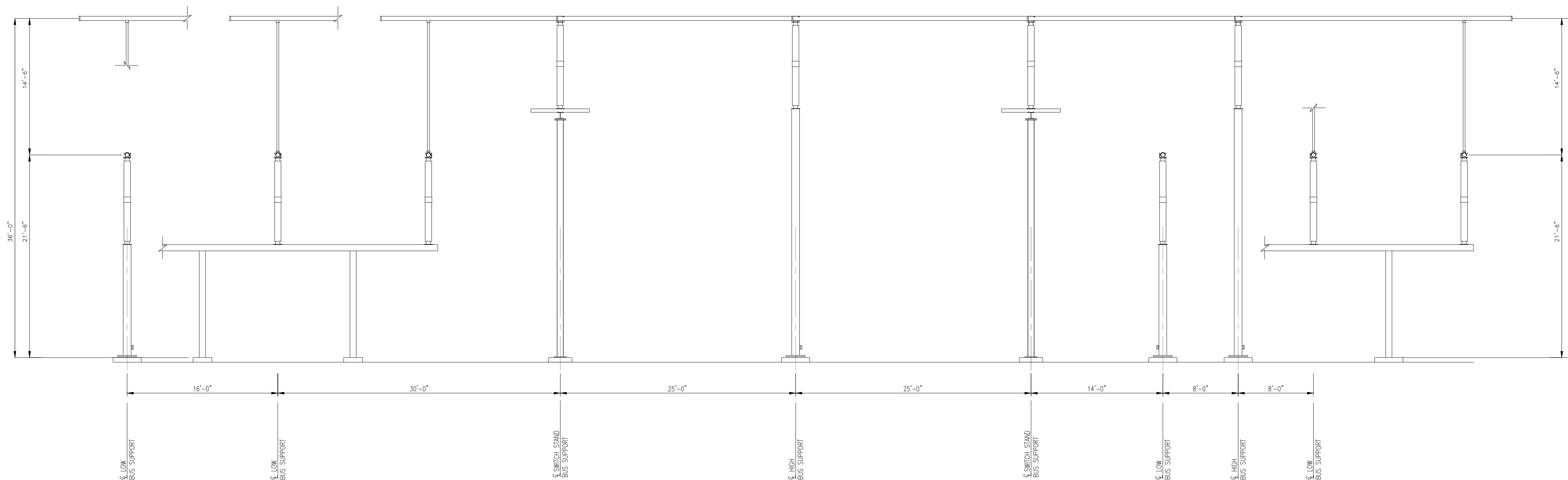
**MILL POINT SOLAR 34.5/345KV
POI SWITCHYARD
SECTION C-C
(PHYSICAL)**

REVIEW 1
DATE
REVIEW 2

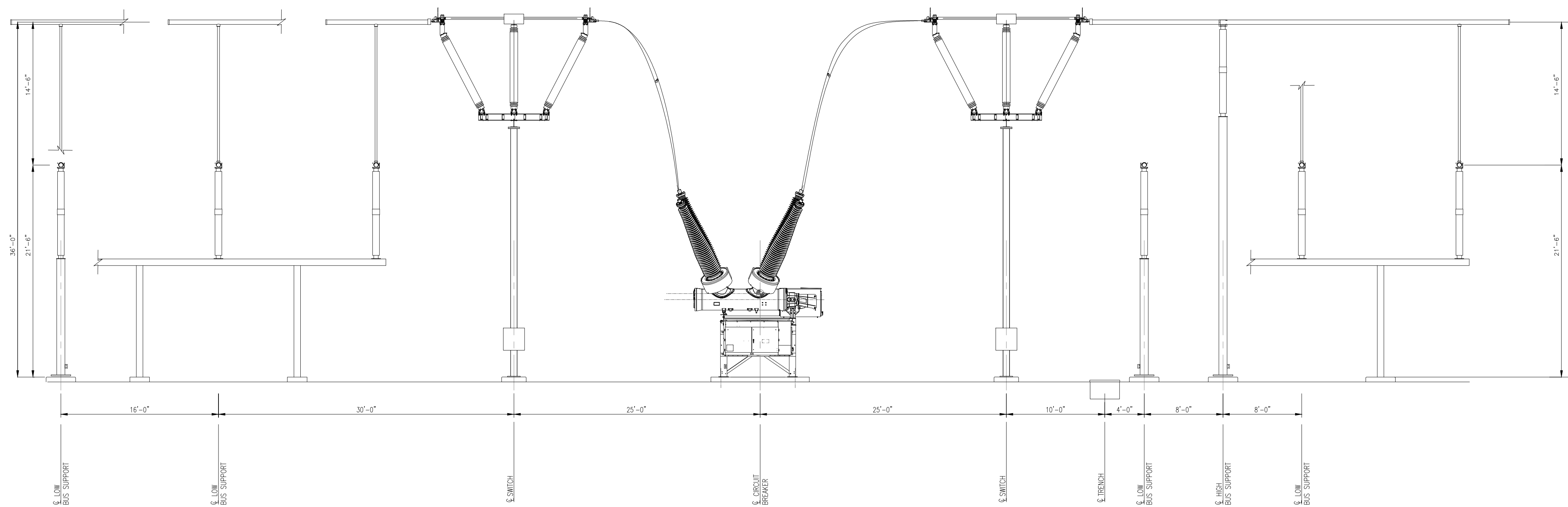
01/15/24
DATE
1/64" = 1'-0"
SCALE

TRC MPS-E-210-12

REV.
D



SECTION D-D
SCALE: NTS



SECTION E-E
SCALE: NTS

DESIGN CRITERIA:

345kV CLEARANCE: (1300 kV BIL)
LIVE PARTS: MIN Ø-G = 104"
MIN Ø-Ø = 119"
TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

NOTE:

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PRELIMINARY
NOT FOR CONSTRUCTION

TRC 10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269			
REV	DESCRIPTION	DATE	DES	CHK	APP
D	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB
C	ISSUE FOR 94-C	10/20/23	TB	CT	.
B	RE-ISSUE FOR REVIEW	10/06/23	TB	CT	.
A	ISSUE FOR REVIEW	09/06/23	TB	CT	.



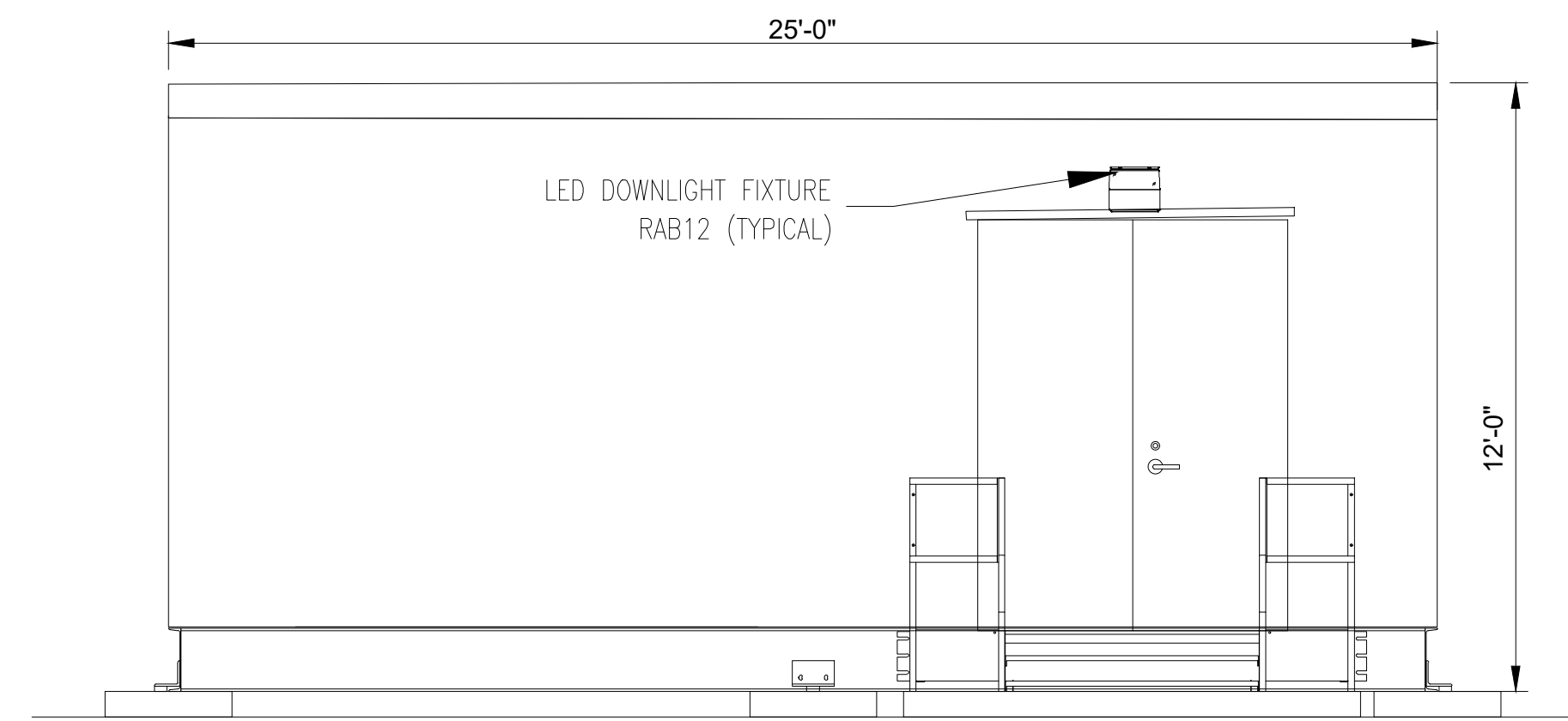
TB	DESIGNED
EL	DRAWN
CT	CHECKED
JTB	APPROVED
REVIEW 1	01/15/24
REVIEW 2	NTS
	SCALE

**MILL POINT SOLAR 34.5/345KV
POI SWITCHYARD
SECTION D-D & E-E
(PHYSICAL)**

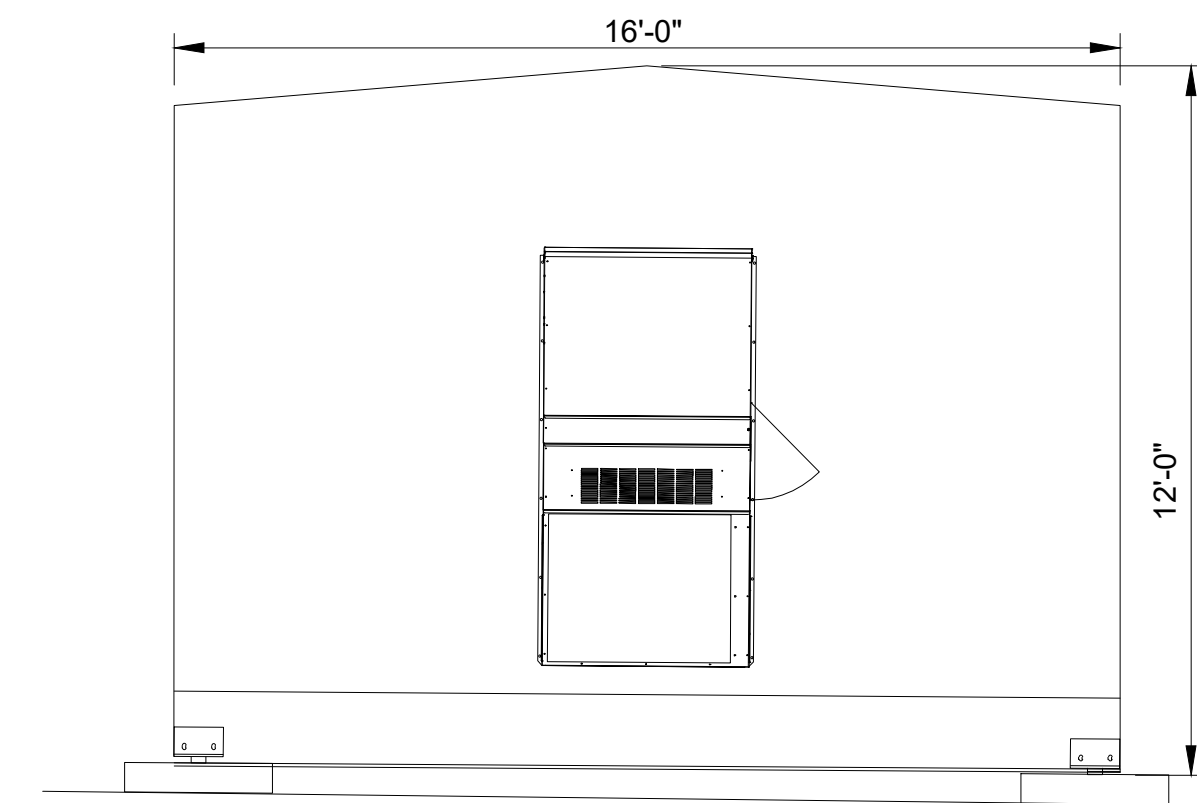


MPS-E-210-13

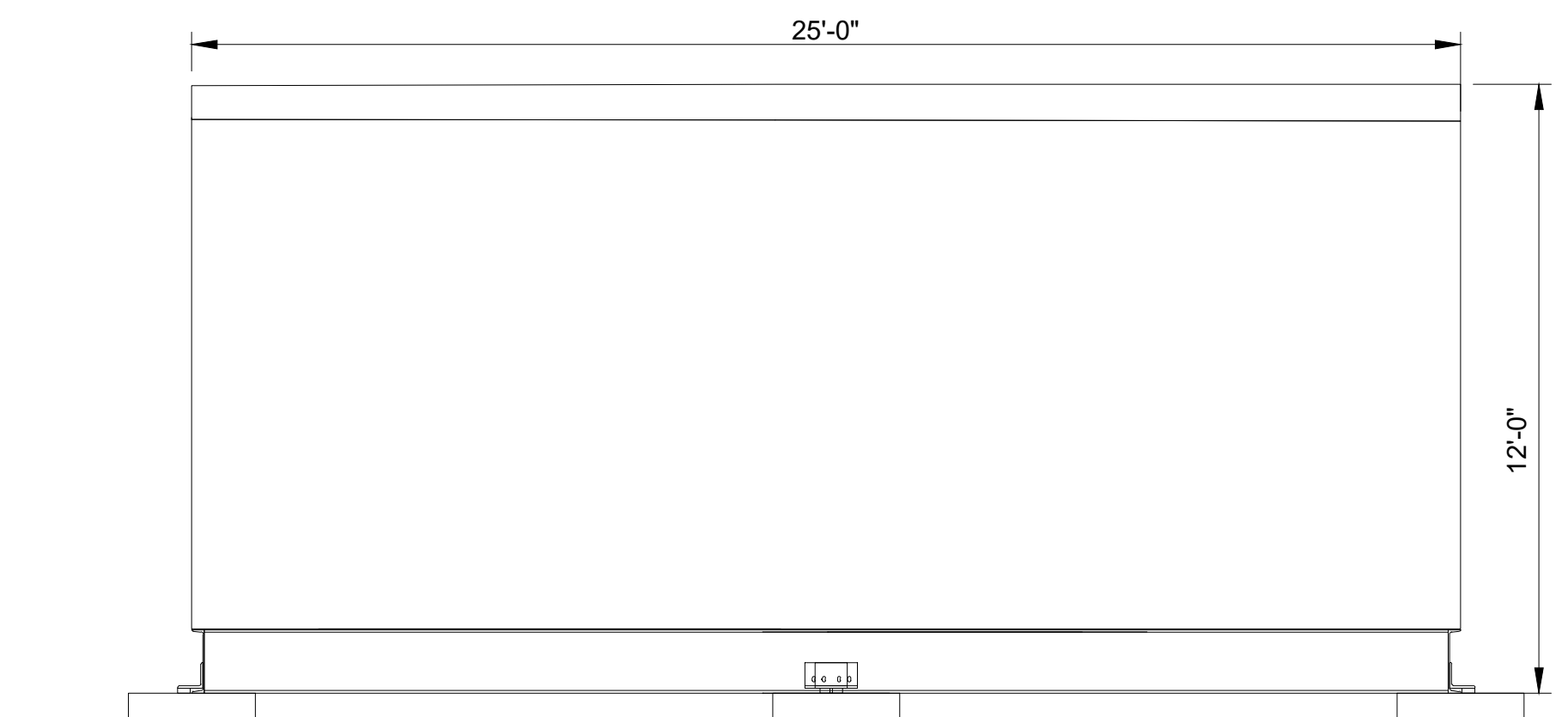
REV. D



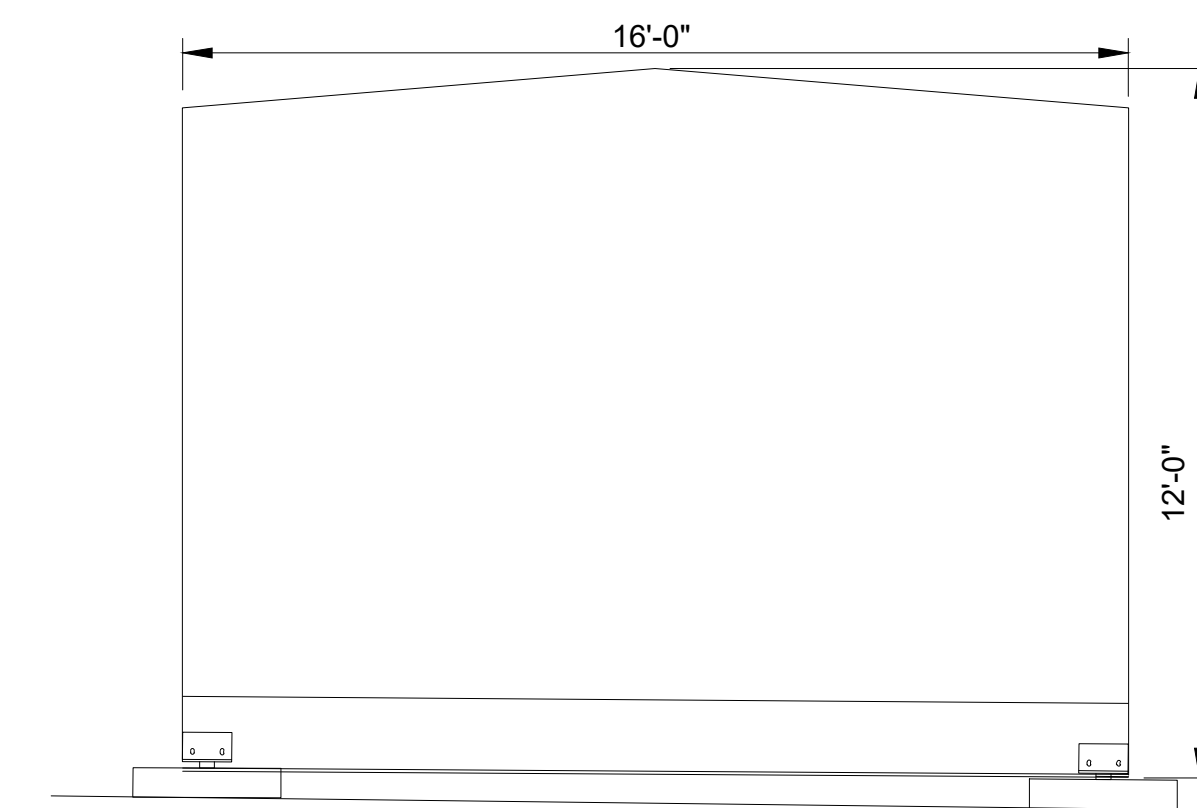
SECTION F-F
SCALE: NTS



SECTION G-G
SCALE: NTS



SECTION H-H
SCALE: NTS



SECTION J-J
SCALE: NTS

DESIGN CRITERIA:
345kV CLEARANCE: (1300 kV BIL)
LIVE PARTS: MIN Ø-G = 104"
MIN Ø-Ø = 119"
TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

NOTE:

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PRELIMINARY
NOT FOR CONSTRUCTION

TRC 10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269			
REV	DESCRIPTION	DATE	DES	CHK	APP
D	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB
C	ISSUE FOR 94-C	10/20/23	TB	CT	.
B	RE-ISSUE FOR REVIEW	10/06/23	TB	CT	.
A	ISSUE FOR REVIEW	09/06/23	TB	CT	.

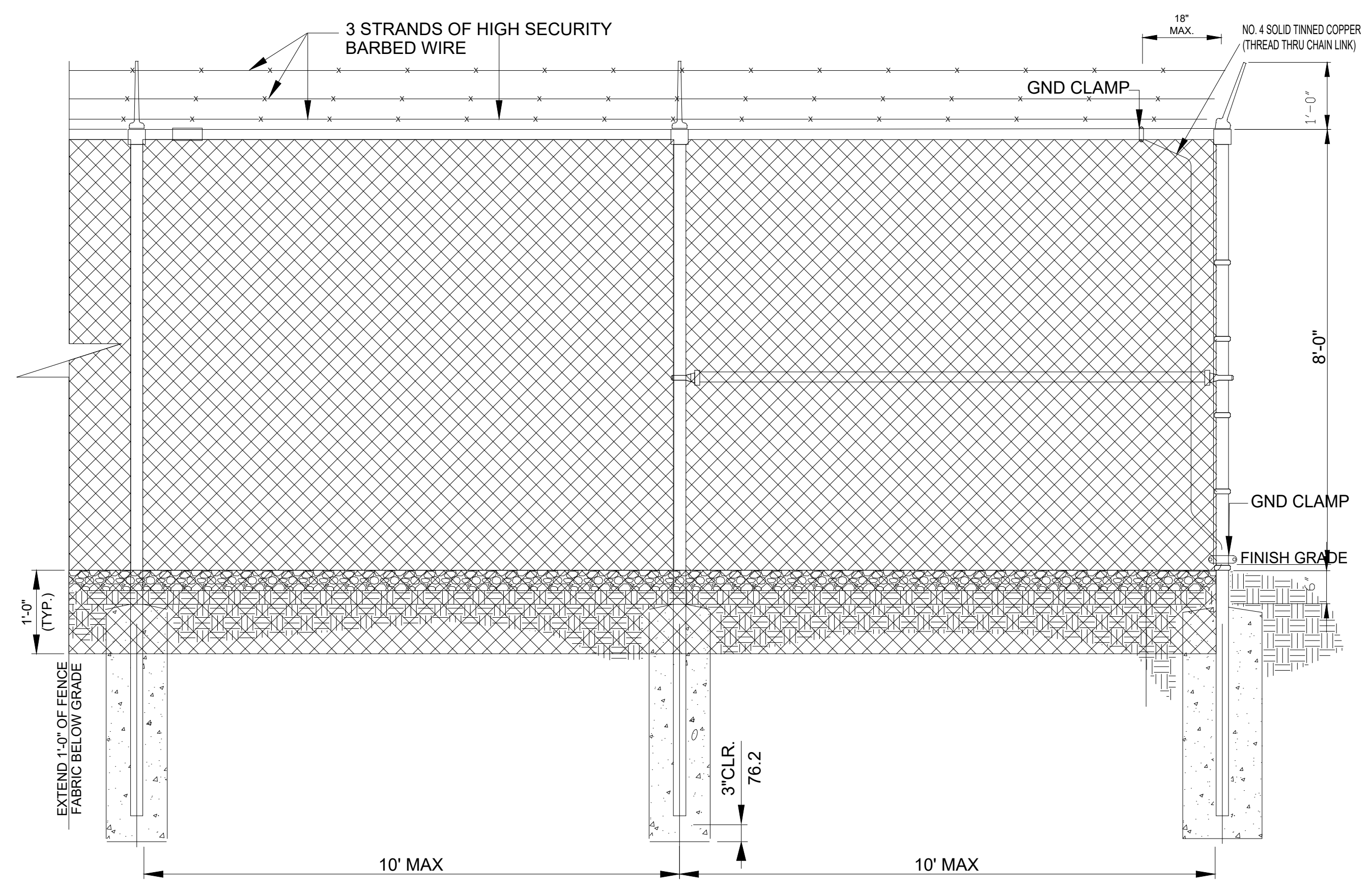
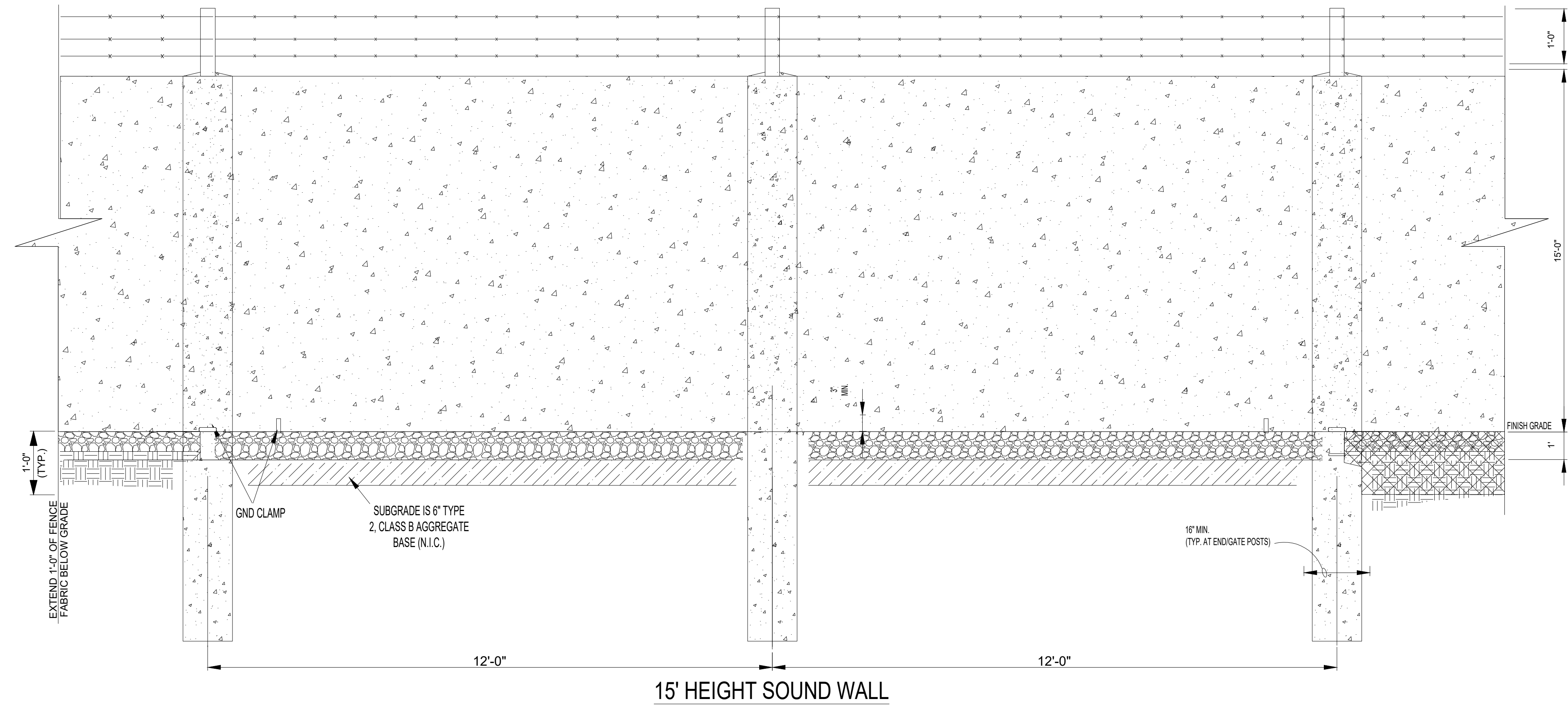


TB	DESIGNED
EL	DRAWN
CT	CHECKED
JTB	APPROVED
REVIEW 1	01/15/24
REVIEW 2	DATE
	NTS
	SCALE

**MILL POINT SOLAR 34.5/345KV
POI SWITCHYARD
SECTION F-F,G-G,H-H,J-J
(PHYSICAL)**

TRC MPS-E-210-14

REV. D



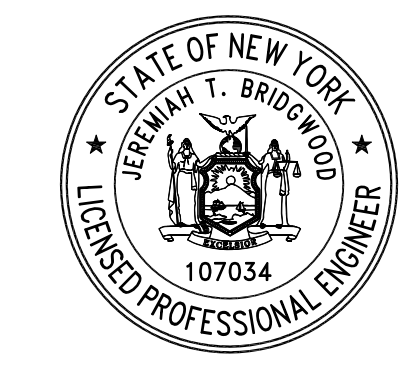
PRELIMINARY
NOT FOR CONSTRUCTION

NOTE:

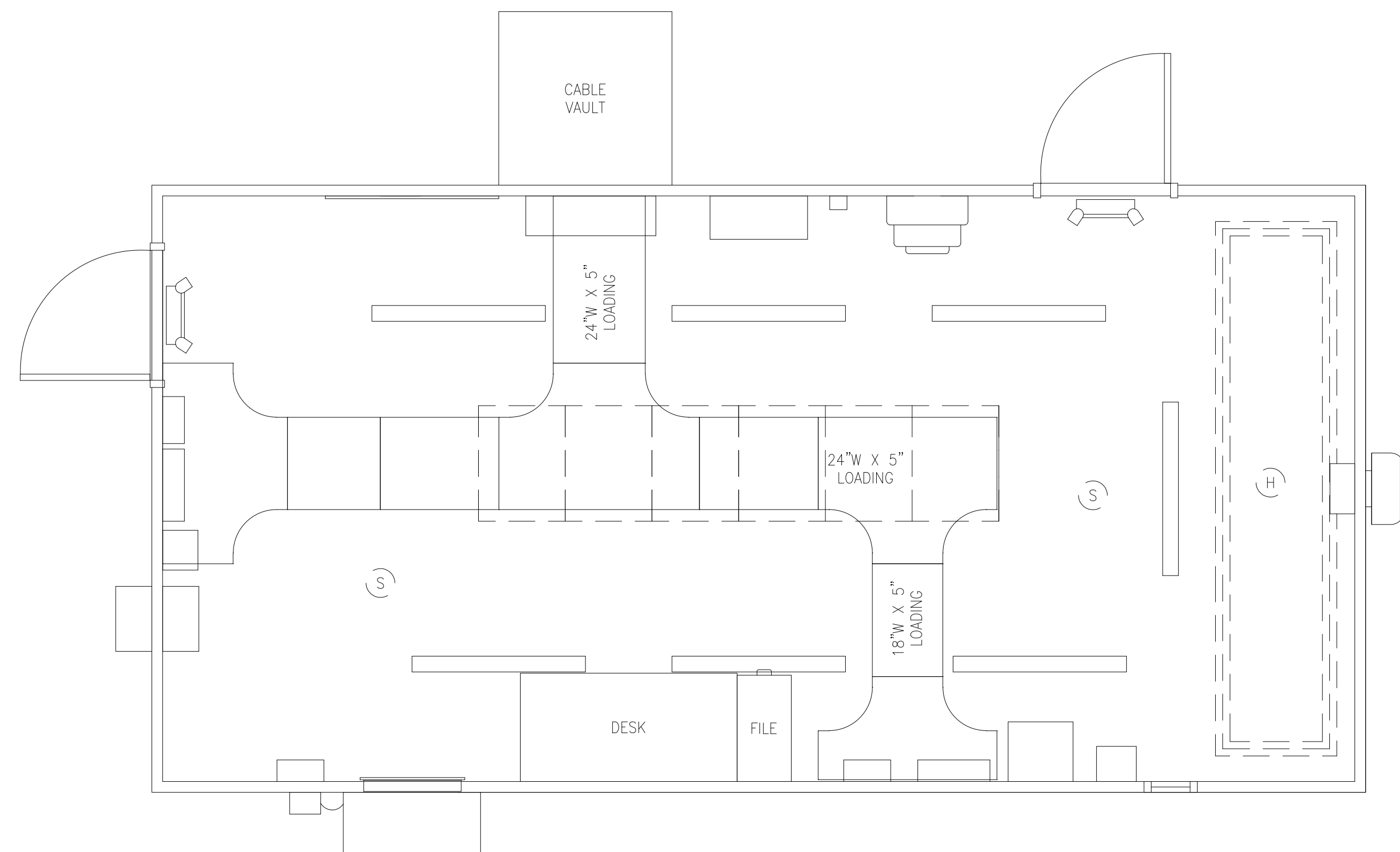
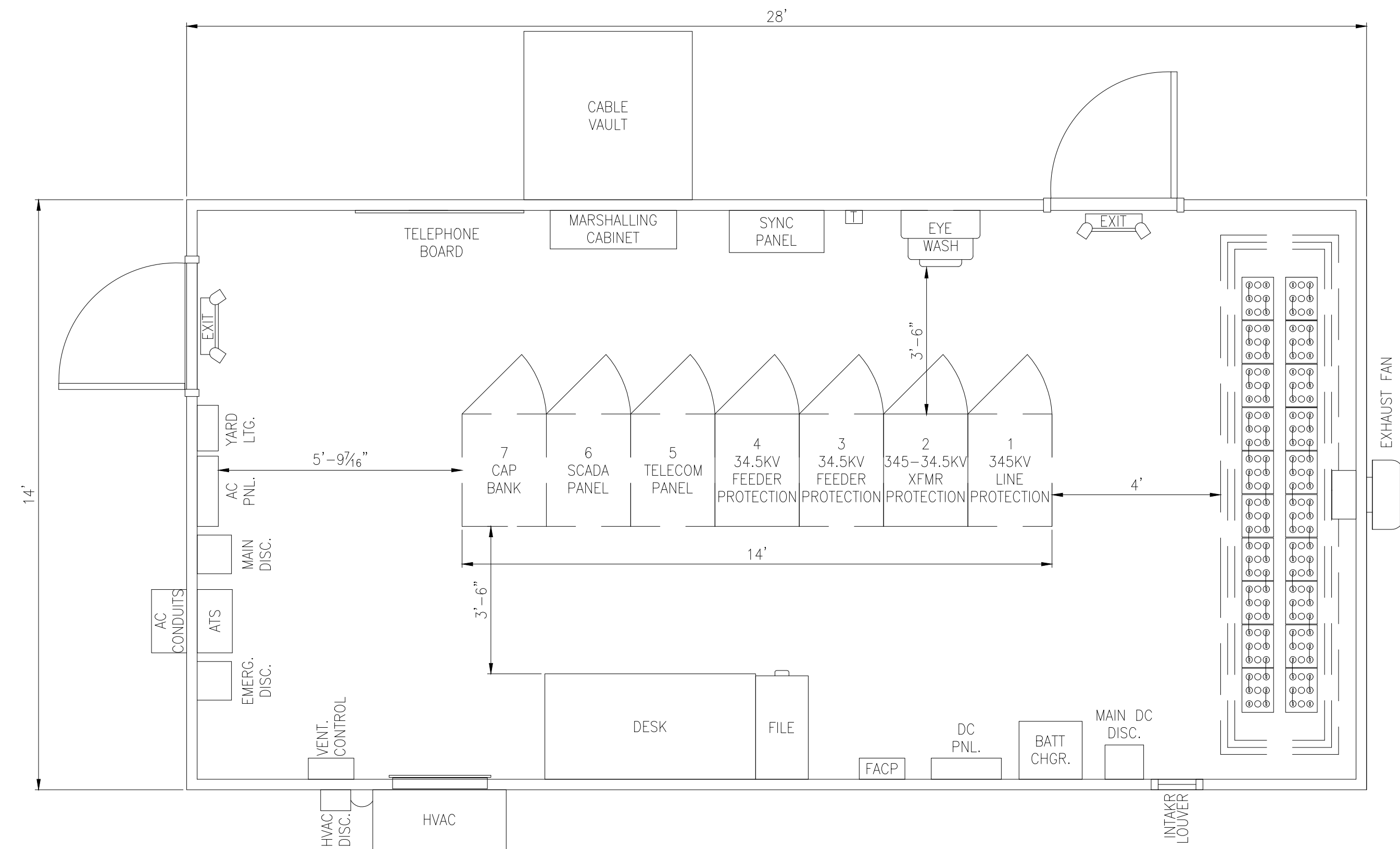
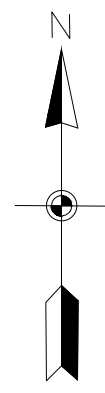
- DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC. LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
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TRC		10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269		
REV	DESCRIPTION	DATE	DES	CHK	APP	
C	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB	
B	ISSUE FOR 94-C	10/20/23	TB	CT		
A	ISSUE FOR REVIEW	08/30/23	TB	CT		



TB DESIGNED	MILL POINT SOLAR 34.5/345KV PERIMETER FENCE AND WALL ERECTION DETAILS (PHYSICAL)	TRC	MPS-E-210-15	REV.
EL DRAWN				C
CT CHECKED				
JTB APPROVED				
REVIEW 1	01/15/24 DATE			
REVIEW 2	NOT TO SCALE SCALE			



- LEGEND:**
- LED STRIP LIGHT - 4'
 - HYDROGEN DETECTOR
 - SMOKE DETECTOR

NOTES:

1. THE GENERAL WIRING METHOD FOR LIGHTING AND RECEPTACLE BRANCH CIRCUITS INSIDE THE CONTROL HOUSE SHALL BE SURFACE MOUNTED 3/4" EMT CONDUIT, WITH #12 THHN CONDUCTORS MINIMUM SIZE.
2. THE ELECTRICAL EQUIPMENT SHOWN LOCATED ON THE BUILDING INTERIOR WALLS SHALL BE SECURED TO MOUNTING CHANNEL WHICH IS ATTACHED TO THE BUILDING STRUCTURE AND SUPPORTED FROM THE CONCRETE FLOOR.
3. ALL AC POWER CIRCUITS SHALL CONTAIN A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR RUN WITH THE PHASE AND NEUTRAL CONDUCTORS.
4. ALL GROUNDING SHALL COMPLY WITH THE NEC AS A MINIMUM REQUIREMENT. A PERIMETER GROUND CONDUCTOR SHALL BE RUN ALONG THE WALL NEAR THE CEILING. CONDUCTOR TO BE SUPPORTED EVERY 4' MINIMUM USING SUPPORT CLIPS. CABLE TRAYS SHALL HAVE A 4/0 BARE COPPER GROUND WIRE IN ALL PARTS OF THE TRAY SYSTEM. CABLE TRAY SHALL BE BONDED AT 5' INTERVALS AND AT EACH FITTING OR SECTION. ALL CABLE TRAY SYSTEMS SHALL BE BONDED TOGETHER AND TO THE BUILDING GROUND SYSTEM. SUPPLEMENTAL GROUNDING IS REQUIRED TO BOND METALLIC FRAMES AND MAJOR EQUIPMENT TO THE GROUNDING ELECTRODE SYSTEM.

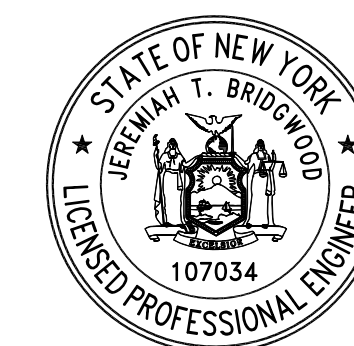
NOTE:

1. DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC, LLC, CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGEN, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
2. UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



PRELIMINARY
NOT FOR CONSTRUCTION

TRC 10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269			
REV	DESCRIPTION	DATE	DES	CHK	APP
C	RE-ISSUE FOR 94-C	01/15/24	TB	CT	JTB
B	ISSUE FOR 94-C	10/20/23	TB	CT	.
A	ISSUE FOR REVIEW	08/30/23	TB	CT	.



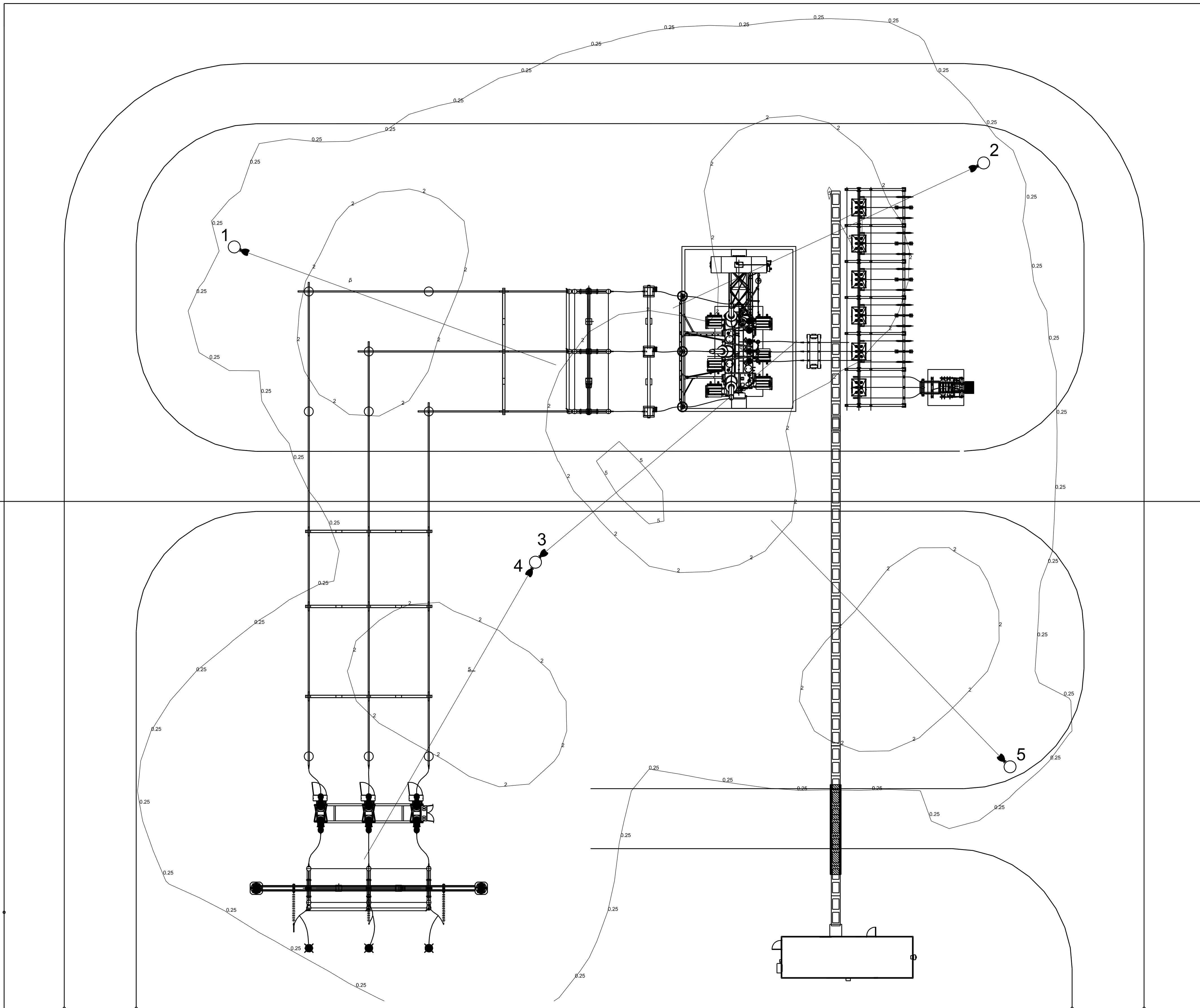
TB DESIGNED	01/15/24 DATE
EL DRAWN	NTS SCALE
CT CHECKED	
JTB APPROVED	
REVIEW 1	
REVIEW 2	

**MILL POINT SOLAR 34.5/345KV
COLLECTOR SUBSTATION
CONTROL HOUSE LAYOUT**
(PHYSICAL)



MPS-E-210-20

REV. c



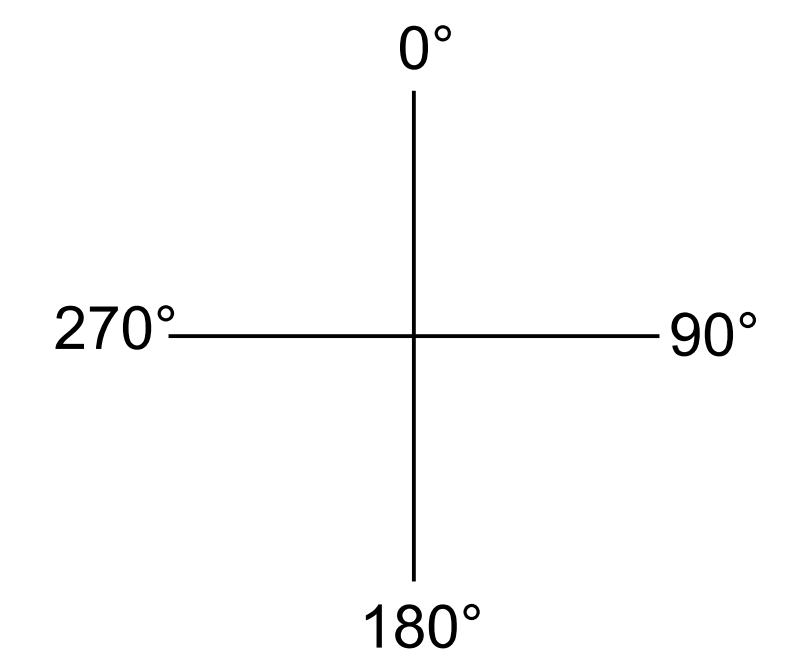
LIGHTING PLAN
SCALE: N.T.S.

TABLE 1 - LIGHTING FIXTURE SCHEDULE								
FIXTURE							LAMP	PHOTO-ELECTRIC CONTROL
TYPE	WATTAGE	LIGHT SOURCE	VOLTAGE	WEIGHT (LBS)	LUMENS	NEMA CLASS	MANUFACTURER (GE) ITEM #	MANUFACTURER ITEM #
A1	357	LED	120V	54	50,700	N/A	AMERICAN ELECTRIC LIGHTING ACP2LED P10 MVOLT 55	N/A

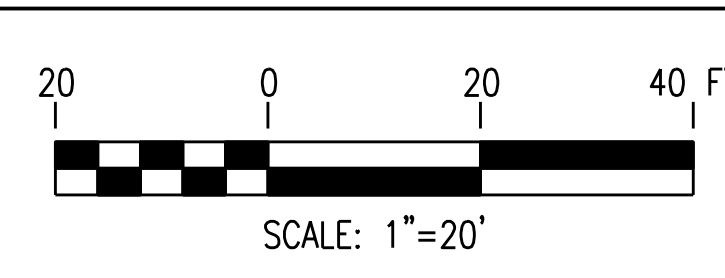
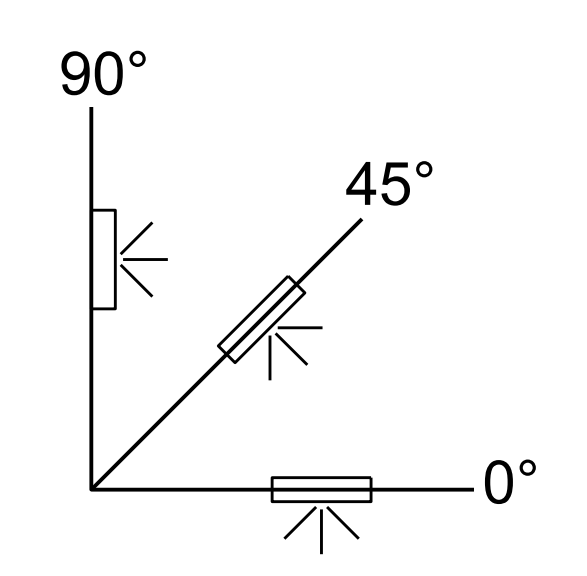
LEGEND:
 Ø - LED FLOOD LIGHT

	HEIGHT	ORIENTATION	TILT
1	30'	110°	75°
2	30'	245°	75°
3	30'	50°	75°
4	30'	210°	75°
5	30'	316°	75°

ORIENTATION REFERENCE



TILT REFERENCE

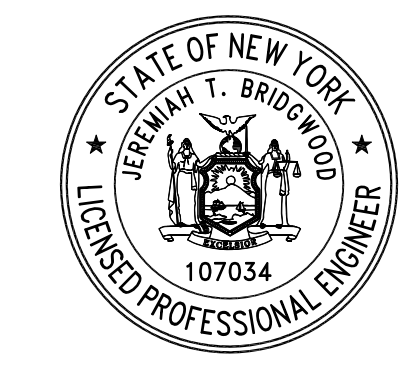


NOTE:
 DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025. TRC ENGINEERS, INC. CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018. DRAWING PREPARED FOR CONNECTGE, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.
 UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



PRELIMINARY
NOT FOR CONSTRUCTION

TRC	10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065	PROJECT NO: 443269
REV	DESCRIPTION	DATE DES CHK APP
C	RE-ISSUE FOR 94-C	1/15/24 TB CT JTB
B	ISSUE FOR 94-C	10/20/23 TB CT
A	ISSUE FOR REVIEW	8/28/23 MAD CT

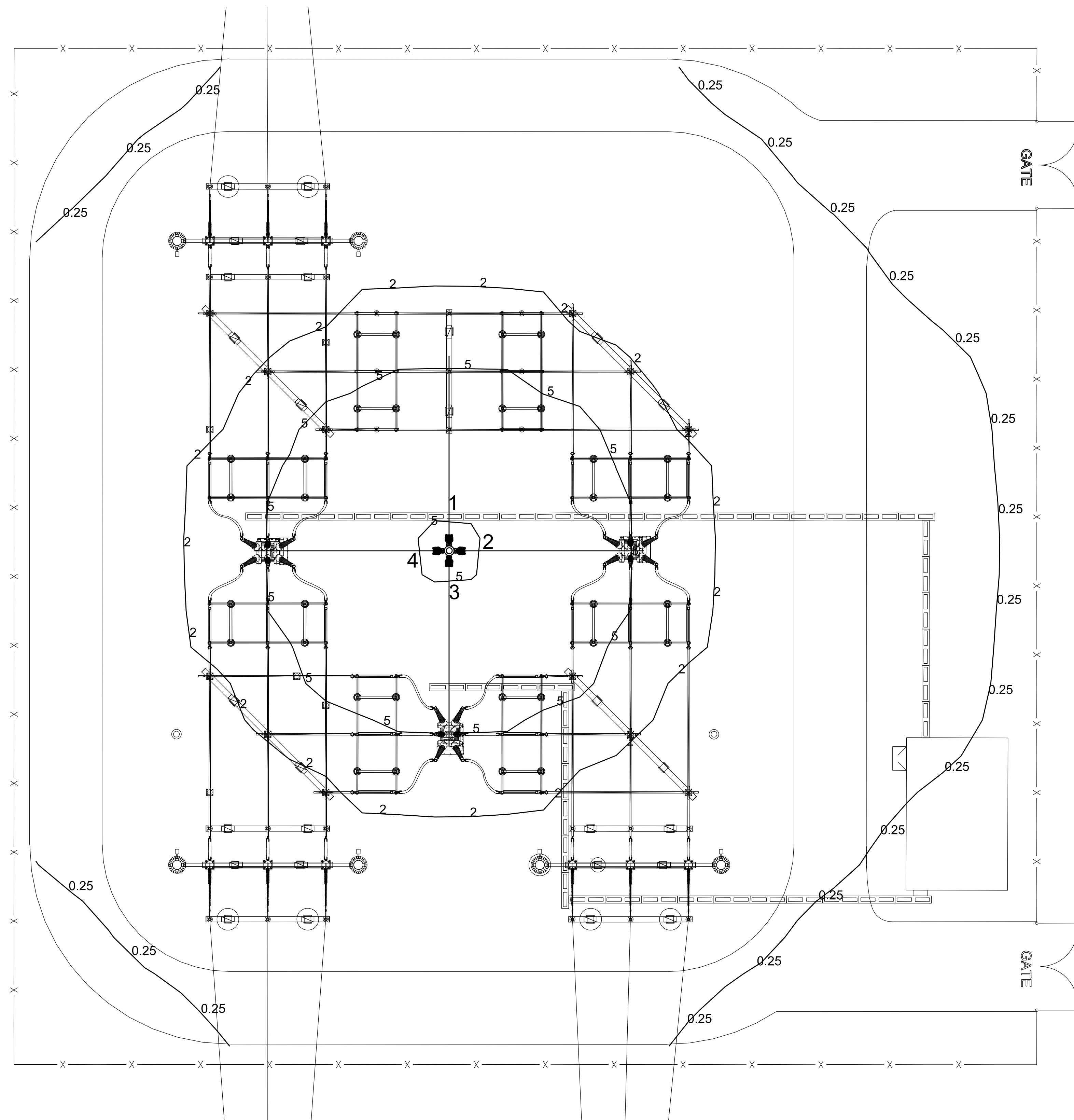


MAD DESIGNED	01/15/24
EL DRAWN	DATE
CT CHECKED	N.T.S.
JTB APPROVED	SCALE
REVIEW 1	
REVIEW 2	

MILL POINT SOLAR 34.5/345KV COLLECTOR SUBSTATION LIGHTING PLAN
(PHYSICAL)

TRC MPS-E-210-21

REV. D



LIGHTING PLAN
SCALE: N.T.S.

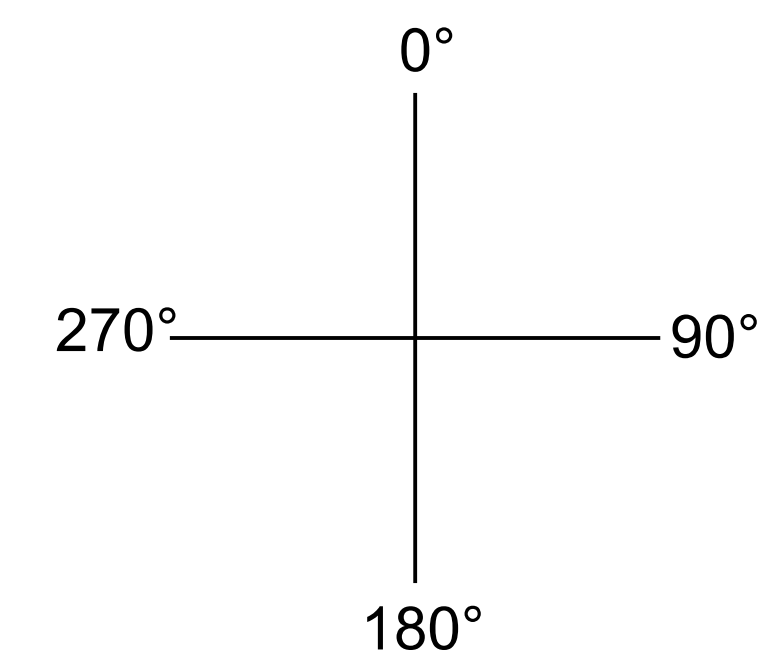
TABLE 1 - LIGHTING FIXTURE SCHEDULE								
FIXTURE							LAMP	PHOTO-ELECTRIC CONTROL
TYPE	WATTAGE	LIGHT SOURCE	VOLTAGE	WEIGHT (LBS)	LUMENS	NEMA CLASS	MANUFACTURER (GE) ITEM #	MANUFACTURER ITEM #
A1	357	LED	120V	54	50,700	N/A	AMERICAN ELECTRIC LIGHTING ACP2LED P10 MVOLT 55	N/A

LEGEND:

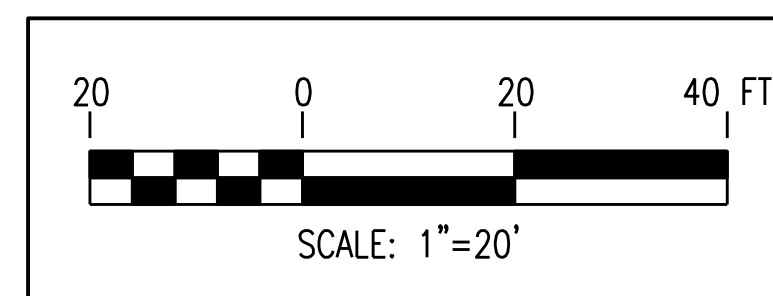
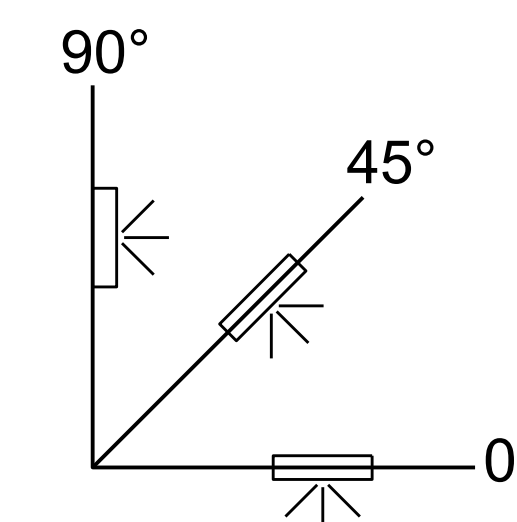
Ø - LED FLOOD LIGHT

	HEIGHT	ORIENTATION	TILT
1	30'	0°	30°
2	30'	90°	30°
3	30'	180°	30°
4	30'	270°	30°

ORIENTATION REFERENCE



TILT REFERENCE



NOTE:

DRAWING PREPARED UNDER JEREMIAH T. BRIDGWOOD - LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK; LICENSE NO. 107034, EXPIRATION DATE 11/30/2025, TRC ENGINEERS, INC. CERTIFICATE OF AUTHORIZATION NO. 001817, 1407 BROADWAY, SUITE 3301, NEW YORK, NEW YORK 10018, DRAWING PREPARED FOR CONNECTGE, MILL POINT SOLAR PROJECT LOCATED IN MONTGOMERY COUNTY, NY.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



PRELIMINARY
NOT FOR CONSTRUCTION

TRC 10 MAXWELL DRIVE, SUITE 200 CLIFTON PARK, NY 12065		PROJECT NO: 443269			
REV	DESCRIPTION	DATE	DES	CHK	APP
A	RE-ISSUE FOR 94-C	1/15/24	MAD	CT	JTB
B	ISSUE FOR 94-C	10/20/23	MAD	CT	
A	ISSUE FOR REVIEW	8/28/23	MAD	CT	



MAD DESIGNED
EL DRAWN
CT CHECKED
JTB APPROVED

**MILL POINT SOLAR 345KV
POI SWITCHYARD
LIGHTING PLAN**
(PHYSICAL)

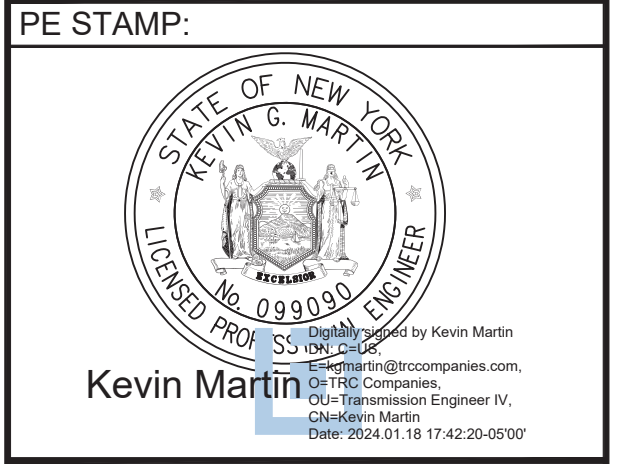
REVIEW 1
REVIEW 2

XXXXXX
DATE
N.T.S.
SCALE



MPS-E-210-22

REV. C



KEY PLAN:

REVISIONS:

NO.	DATE	DESCRIPTION
1	10/23/2023	ISSUED FOR 94-C PERMIT
2	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT TITLE:
MILL POINT SOLAR I PROJECT

PROJECT LOCATION:
TOWN OF GLEN MONTGOMERY CO., NY

SHEET TITLE & DESCRIPTION:
TRANSMISSION INTERCONNECTION PLAN

PROJ NUM: XXXXXX

DES: B. HACKLEY

DWN: B. HACKLEY

CHK: K. DRZEWIECKI

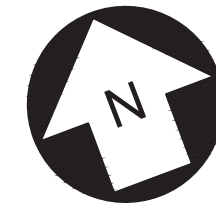
APV: A. JAEGER

DATE: 10/23/2023
SCALE AT 22" x 34":
NTS

SHEET NO: **MPS-T-101-01** REV: **1**

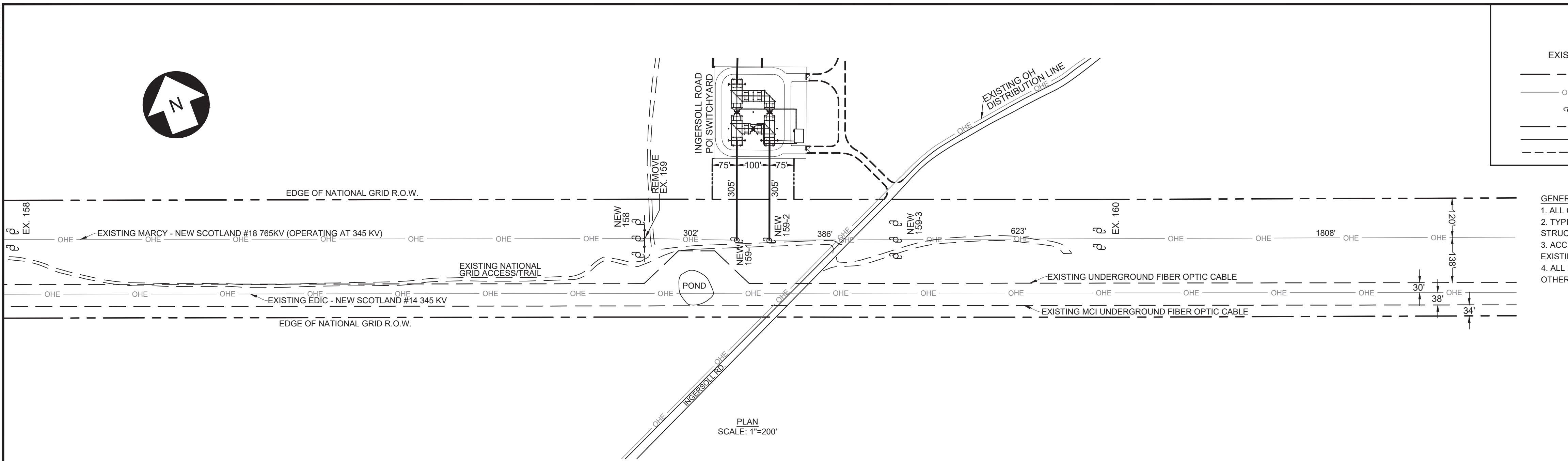
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PRELIMINARY
NOT FOR CONSTRUCTION

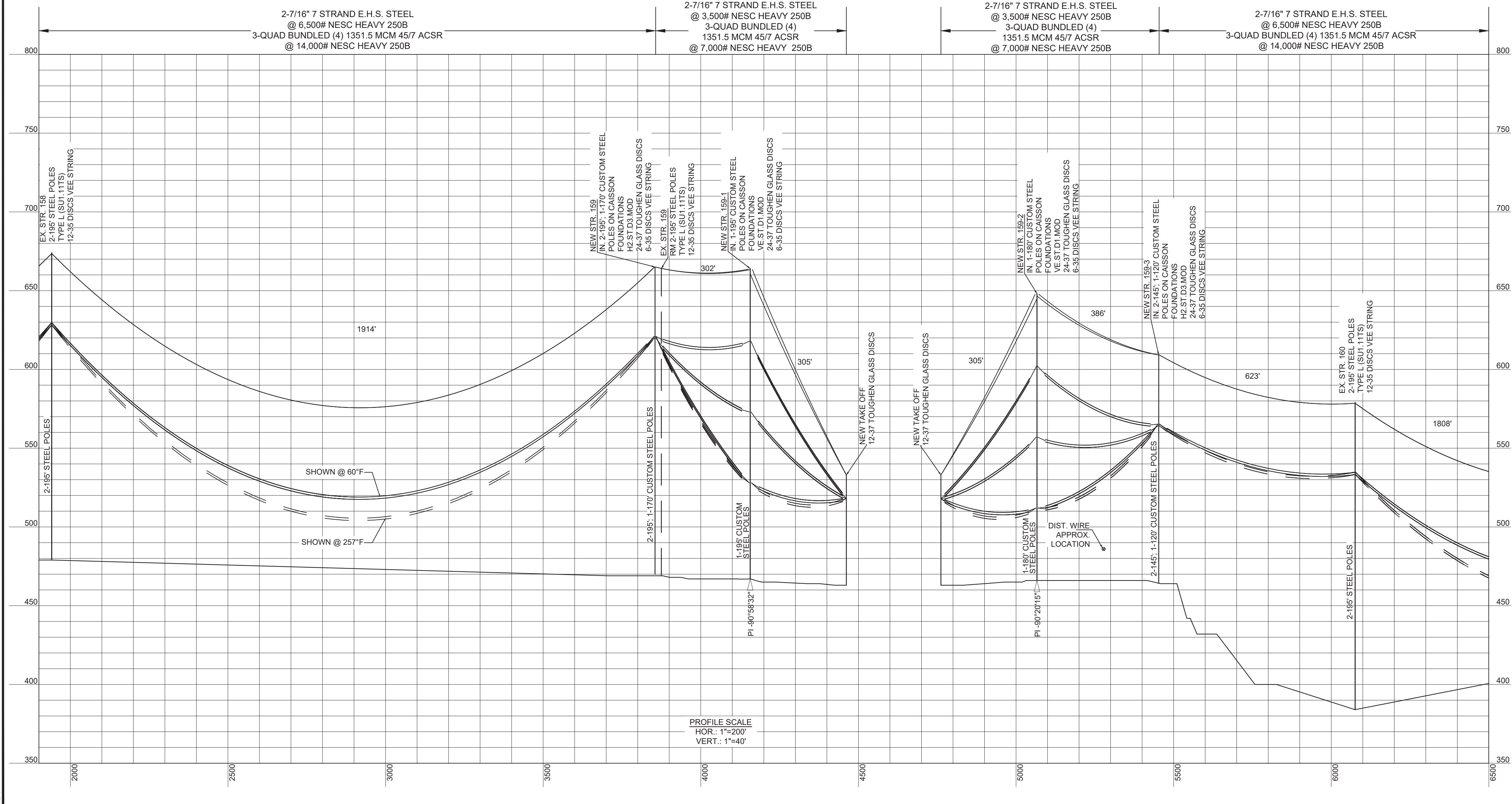


LEGEND	
EXISTING	PROPOSED
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- - - -	- - - -
○	○
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- GENERAL NOTES:**
1. ALL CONDUCTORS AND SHIELDWIRES TO BE NON-SPECULAR.
 2. TYPICAL LAYDOWN AREAS TO BE 70'X100' NEAR EACH STRUCTURE INSTALLATION LOCATIONS.
 3. ACCESS IN NATIONAL GRID RIGHT-OF-WAY TO UTILIZE EXISTING ACCESS ROADS.
 4. ALL NEW STEEL POLES TO BE GALVANIZED STEEL UNLESS OTHERWISE REQUESTED TO BE CORTEN WEATHERED STEEL.



PLAN SCALE: 1"=200'



PROFILE SCALE
HOR.: 1"=200'
VERT.: 1"=40'



249 Western Avenue
Augusta, ME 04330

PE STAMP:



KEY PLAN:

REVISIONS:

NO.	DATE	DESCRIPTION
1	10/23/2023	ISSUED FOR 94-C PERMIT
2	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT TITLE:

MILL POINT SOLAR I
PROJECT

PROJECT LOCATION:

TOWN OF GLEN
MONTGOMERY CO., NY

SHEET TITLE & DESCRIPTION:

TRANSMISSION
INTERCONNECTION
PLAN & PROFILE

PROJ. NUM:	XXXXXX
DES:	B. HACKLEY
DWN:	B. HACKLEY
CHK:	K. DRZEWIECKI
APV:	A. JAEGER
DATE:	10/23/2023
SCALE AT 22" x 34":	



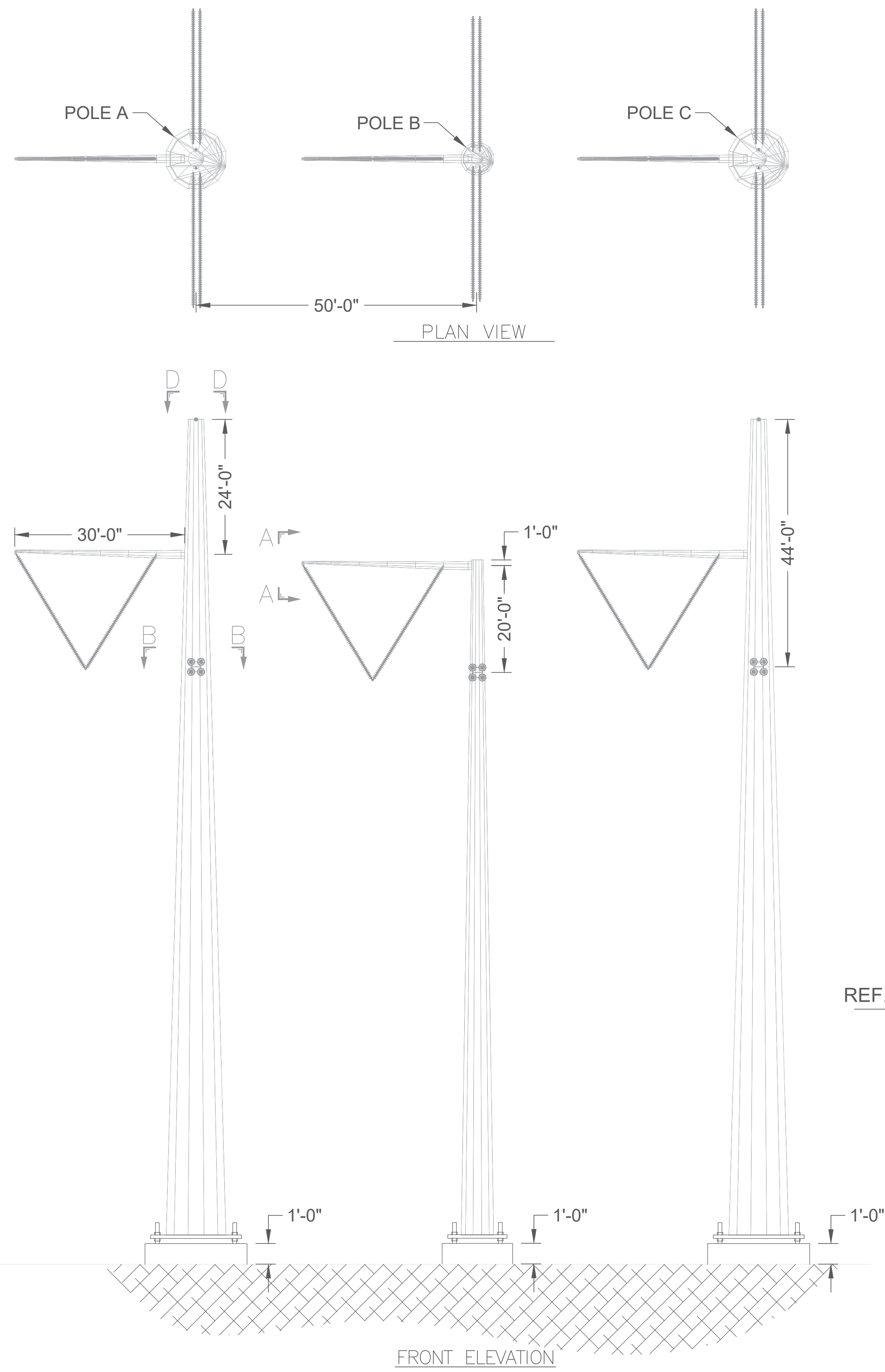
PRELIMINARY
NOT FOR CONSTRUCTION

AS SHOWN

SHEET NO.	MPS-T-102-01	REV:	1
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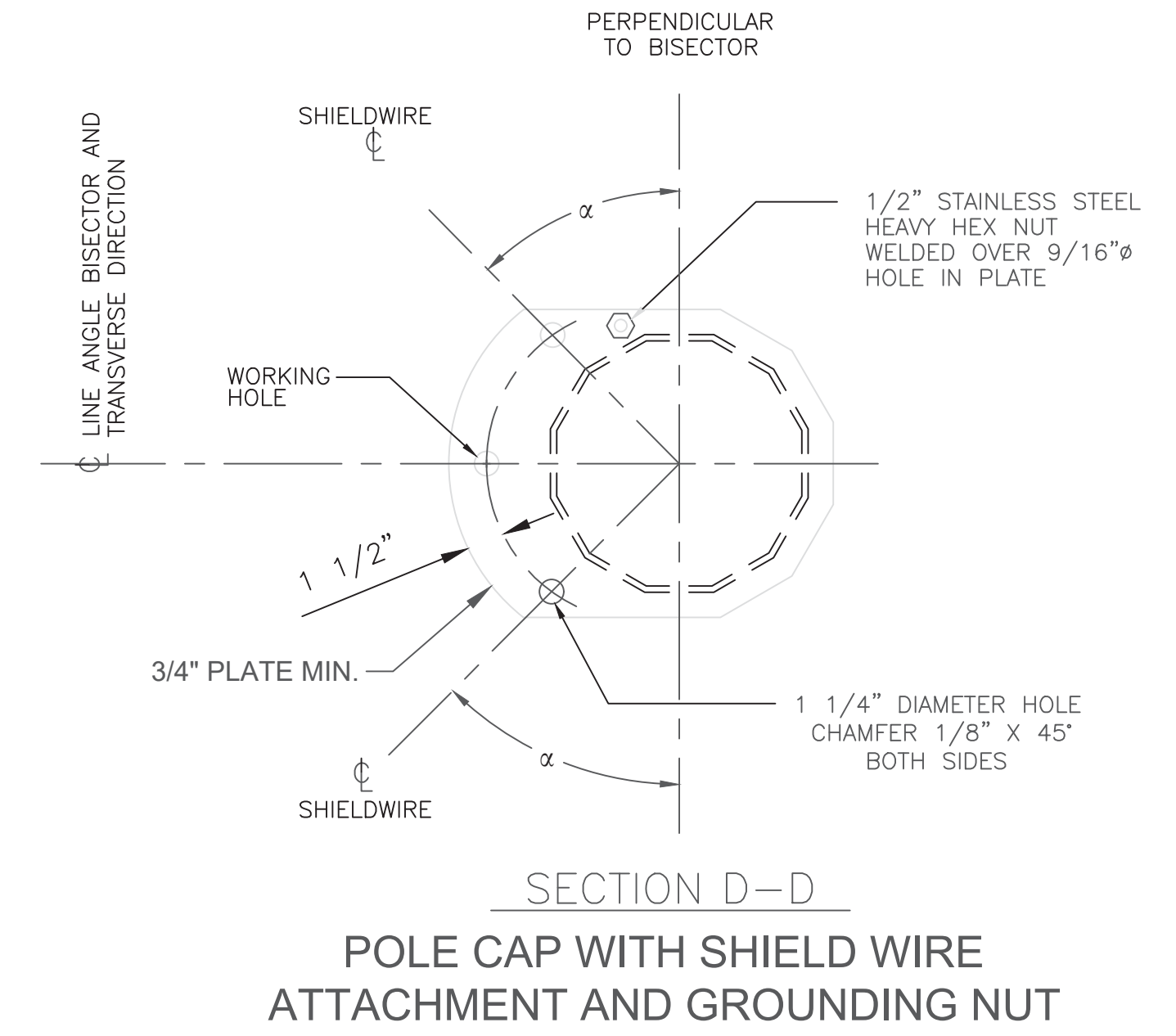
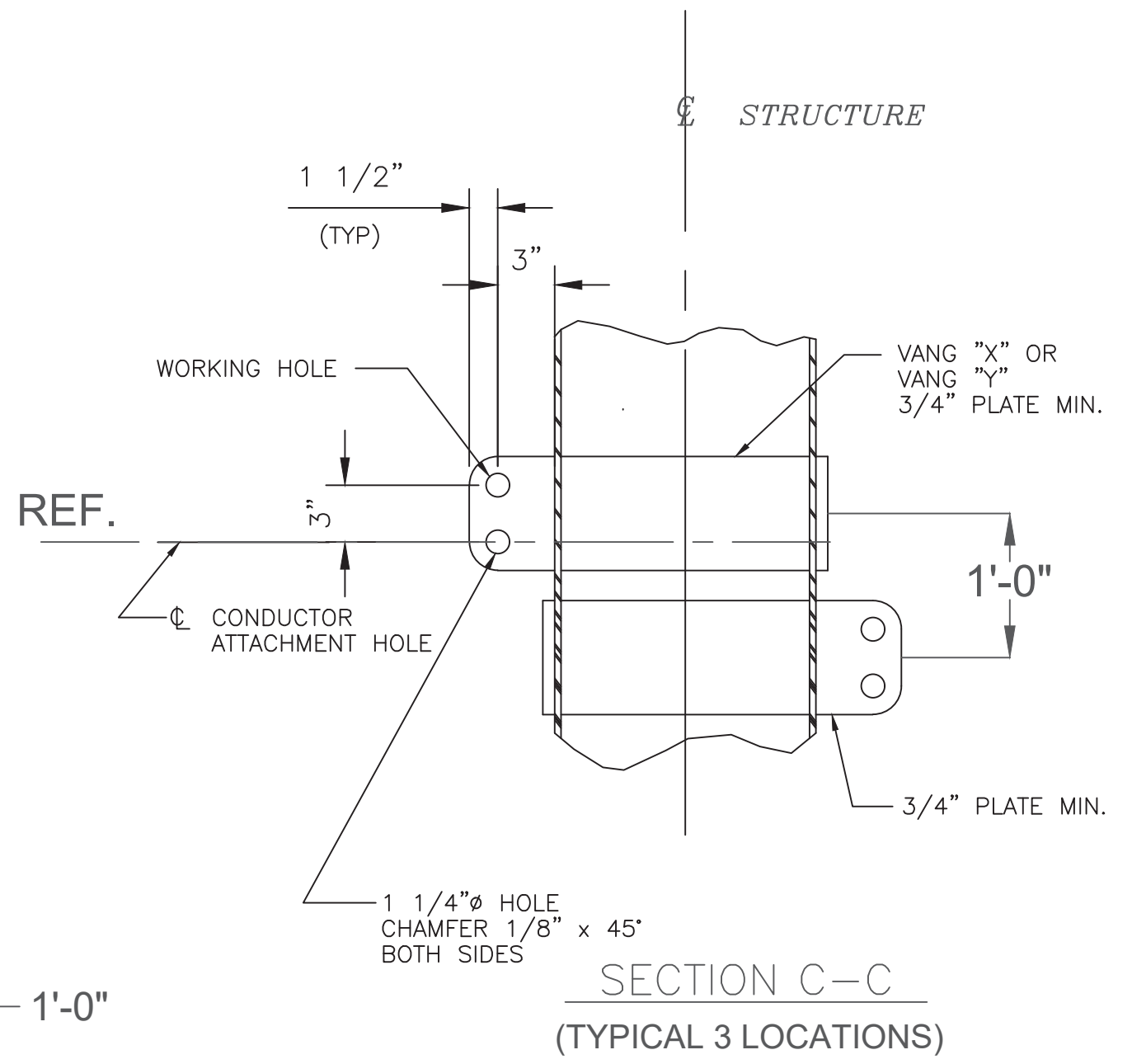
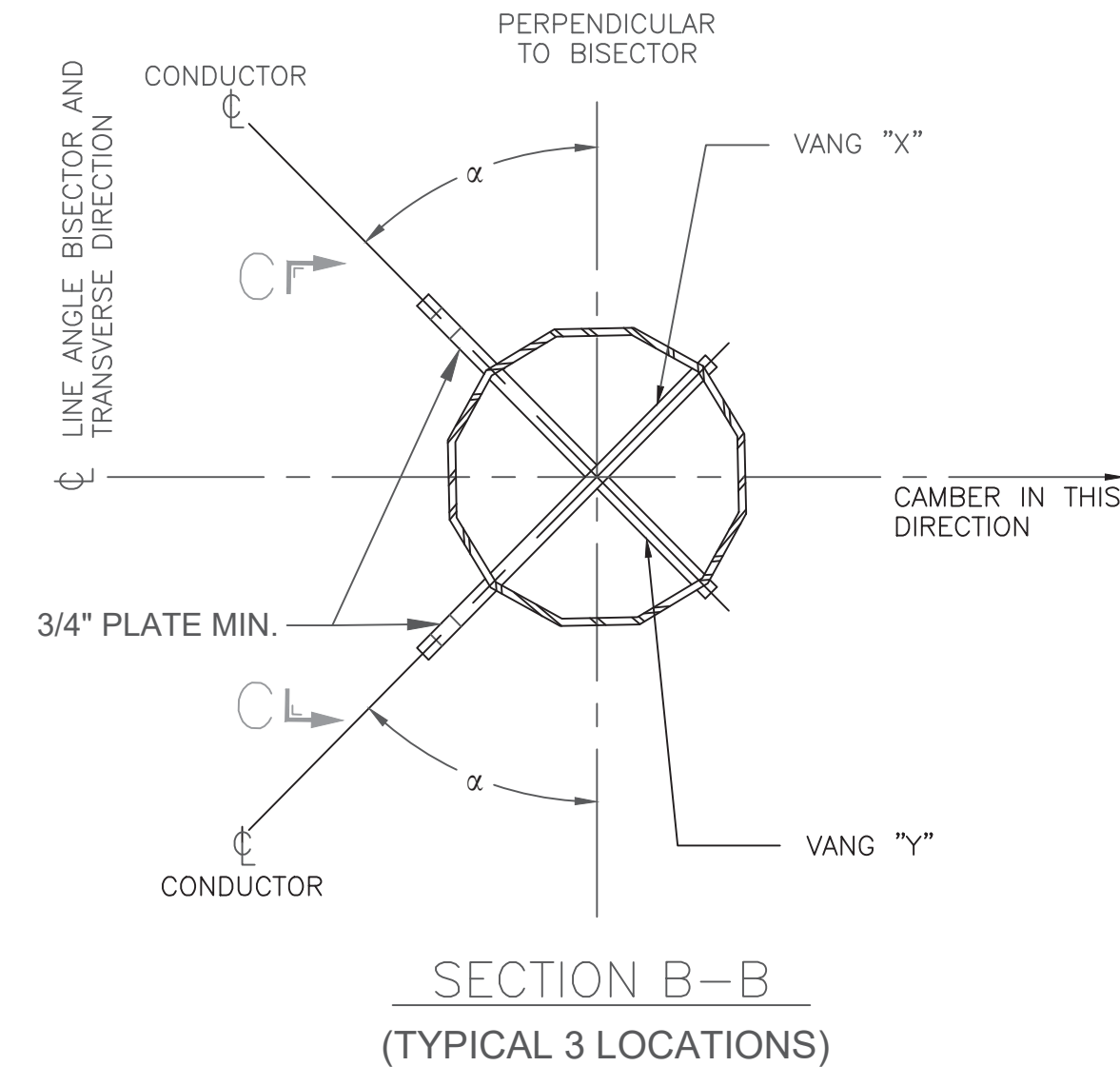
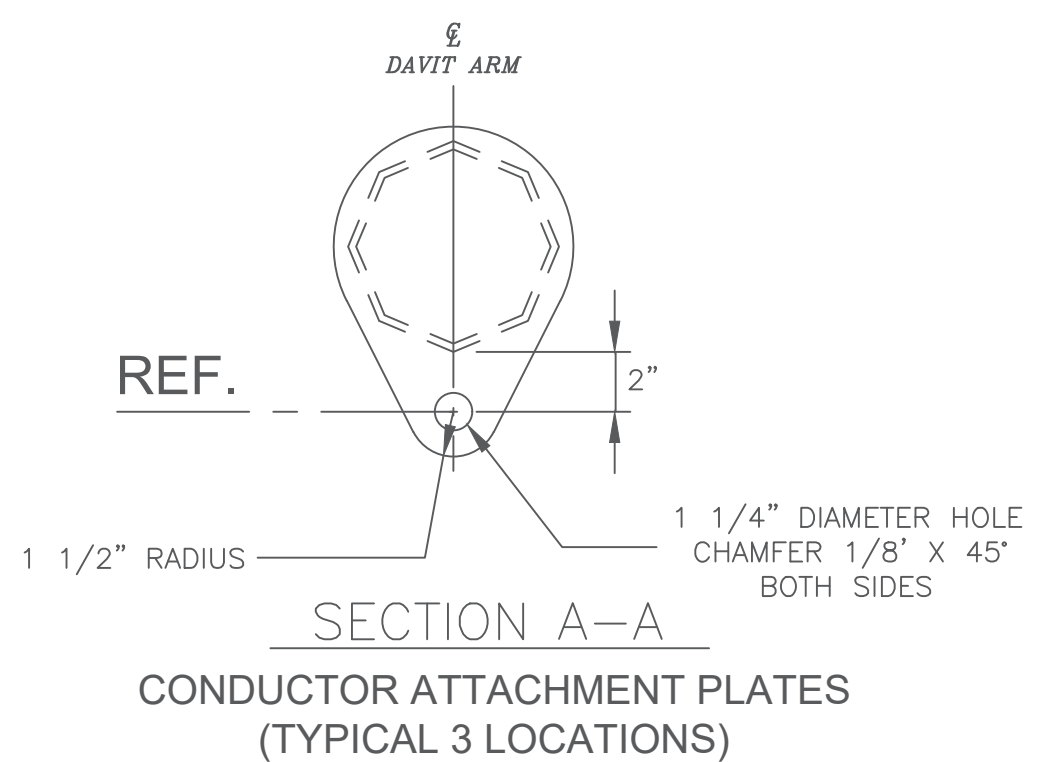
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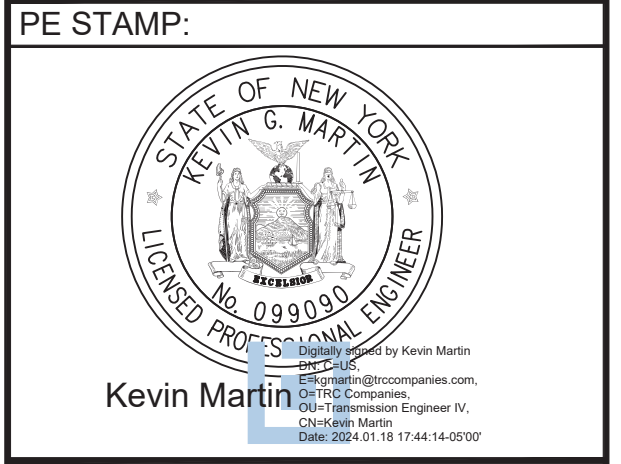


STRUCTURE INFORMATION										
STRUCTURE NUMBER	LINE ANGLE α (DEG.)	STRUCTURE HEIGHT (FT.)			DISCS/ STRING	DISCS/ LOOP STRING	STRINGS/ PHASE	LOOP STRINGS/ PHASE	DESIGN VOLTAGE	OPERATING VOLTAGE
		POLE A	POLE B	POLE C						
159	0°	195'-0"	170'-0"	195'-0"	37	35	8	2	765 kV	345 kV
159-3	0°	145'-0"	120'-0"	145'-0"	37	35	8	2	765 kV	345 kV

NOTES:
 ALL INSULATOR DISCS TO BE TOUGHENED GLASS.
 ALL POLES TO BE GALVANIZED STEEL UNLESS OTHERWISE REQUESTED TO BE CORTEN WEATHERED STEEL.
 ALL POLES INSTALLED ON CAISSON FOUNDATION WITH 1'-0" REVEAL.



PRELIMINARY
 NOT FOR CONSTRUCTION



KEY PLAN:

REVISIONS:

NO.	DATE	DESCRIPTION
1	10/23/2023	ISSUED FOR 94-C PERMIT
2	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT TITLE:

MILL POINT SOLAR I PROJECT

PROJECT LOCATION:

TOWN OF GLEN MONTGOMERY CO., NY

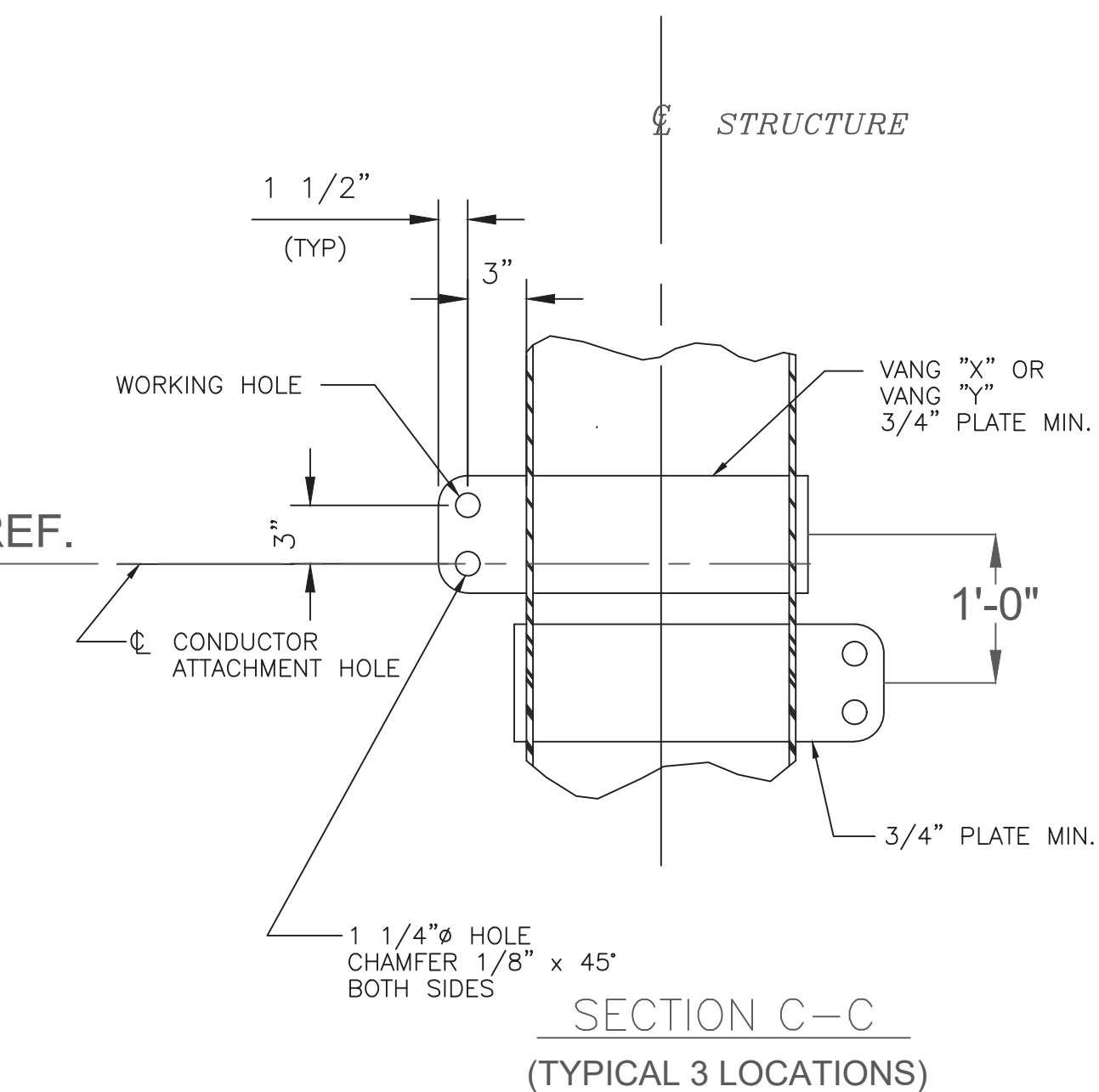
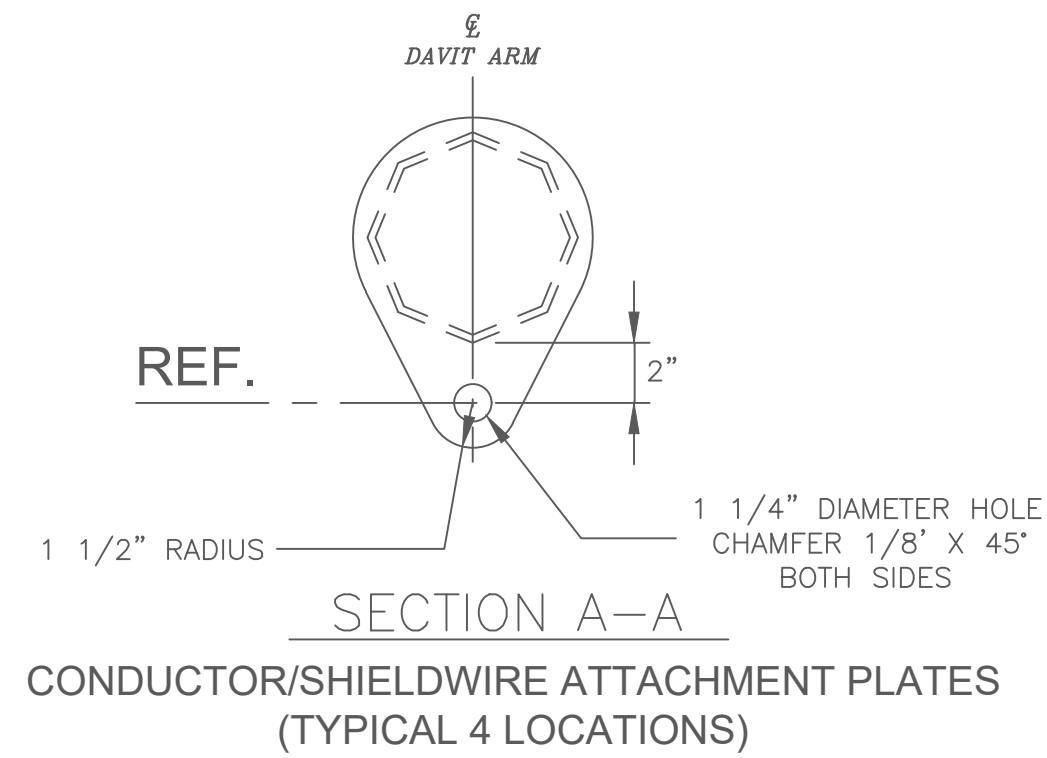
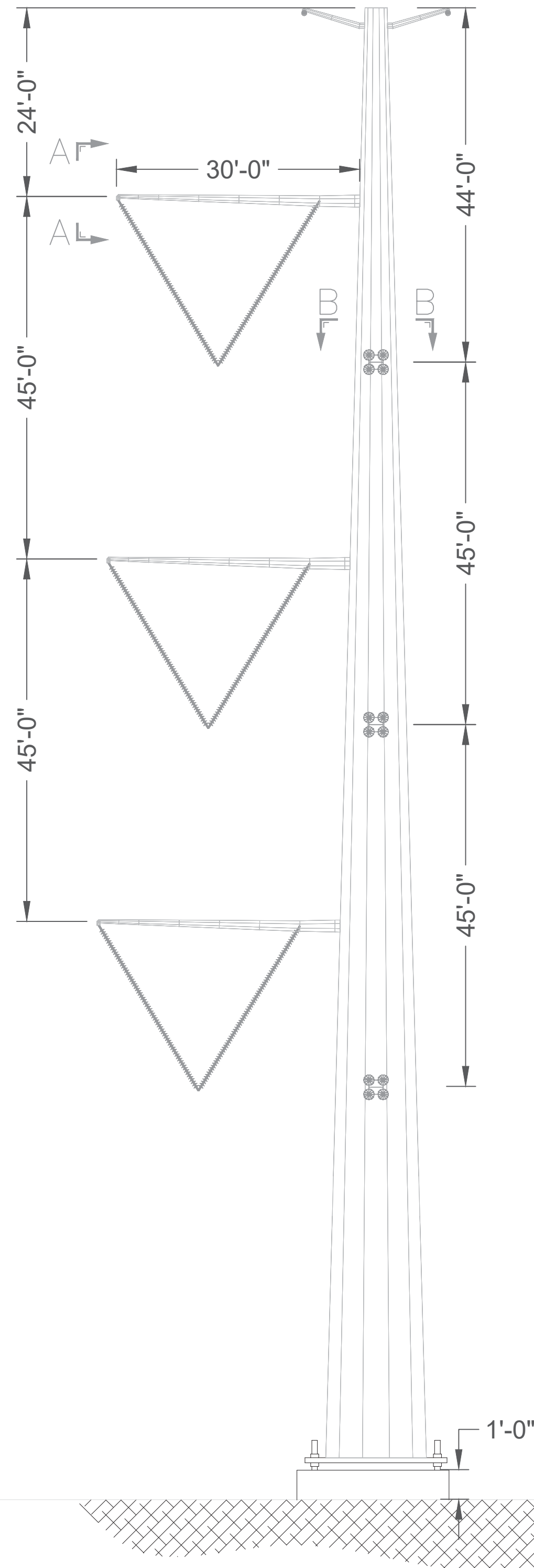
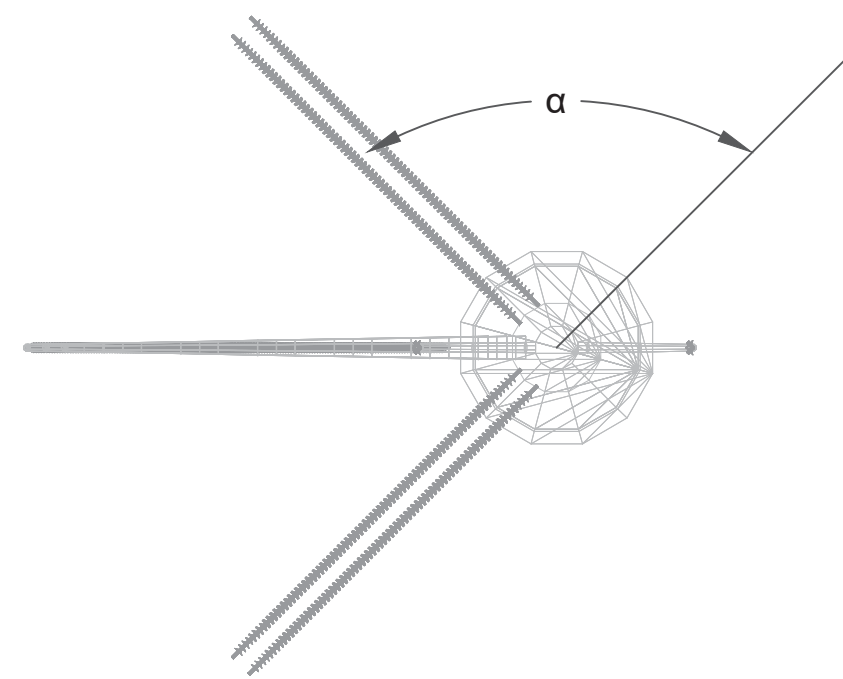
SHEET TITLE & DESCRIPTION:

HE.ST.D3.MOD 3-STEEL POLE DEAD-END

PROJ NUM:	XXXXXX
DES:	B. HACKLEY
DWN:	B. HACKLEY
CHK:	K. DRZEWIECKI
APV:	A. JAEGER
DATE:	10/23/2023
SCALE AT 22' x 34':	

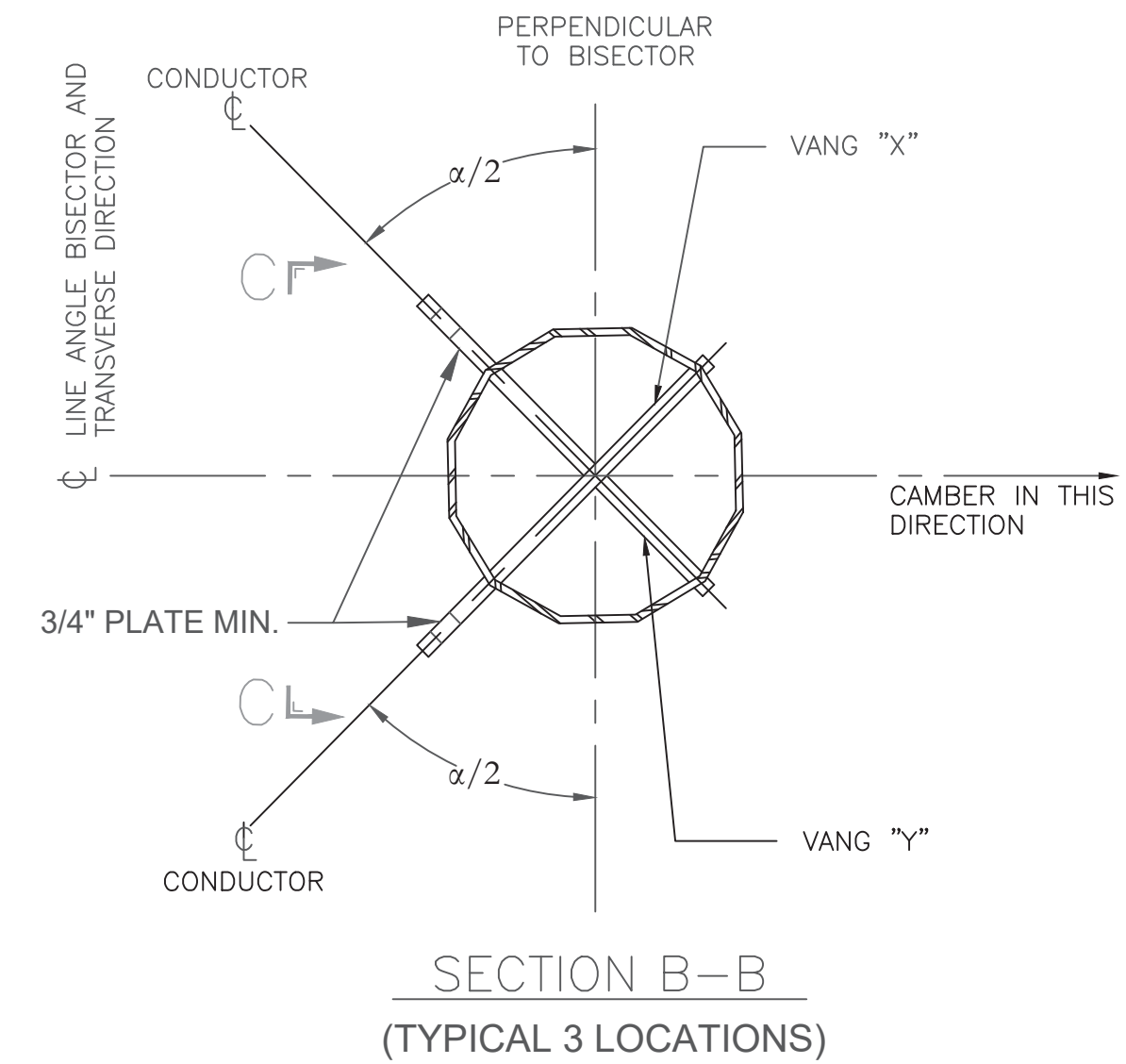
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SHEET NO:	REV:
MPS-T-103-01	1

AEST: 11/7/2024 1:52 PM
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 PLOTTED: 11/7/2024 1:52 PM
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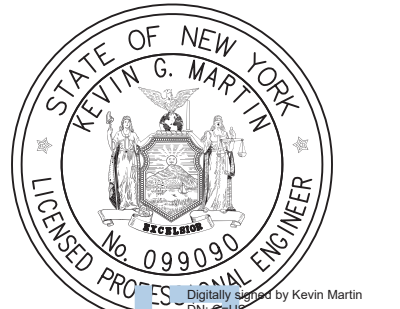
STRUCTURE INFORMATION								
STRUCTURE NUMBER	LINE ANGLE α (DEG.)	STRUCTURE HEIGHT (FT.)	DISCS/STRING	DISCS/LOOP STRING	STRINGS/PHASE	LOOP STRINGS/PHASE	DESIGN VOLTAGE	OPERATING VOLTAGE
159-1	90°58'32"	195'-0"	37	35	8	2	765 kV	345 kV
159-2	-90°20'15"	180'-0"	37	35	8	2	765 kV	345 kV

NOTES:
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 ALL POLES INSTALLED ON CAISSON FOUNDATION WITH 1'-0" REVEAL.



249 Western Avenue
 Augusta, ME 04330

PE STAMP:



Kevin Martin
 License No. 099030
 State of New York
 Professional Engineer

KEY PLAN:

REVISIONS:

NO.	DATE	DESCRIPTION
1	10/23/2023	ISSUED FOR 94-C PERMIT
2	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT TITLE:

MILL POINT SOLAR I
 PROJECT

PROJECT LOCATION:

TOWN OF GLEN
 MONTGOMERY CO., NY

SHEET TITLE & DESCRIPTION:

V1.ST.D1.MOD
 VERTICAL STEEL POLE
 DEAD-END

PROJ NUM: XXXXXX

DES: B. HACKLEY

DWN: B. HACKLEY

CHK: K. DRZEWIECKI

APV: A. JAEGER

DATE: 10/23/2023

SCALE AT 22' x 34':

NTS

PRELIMINARY
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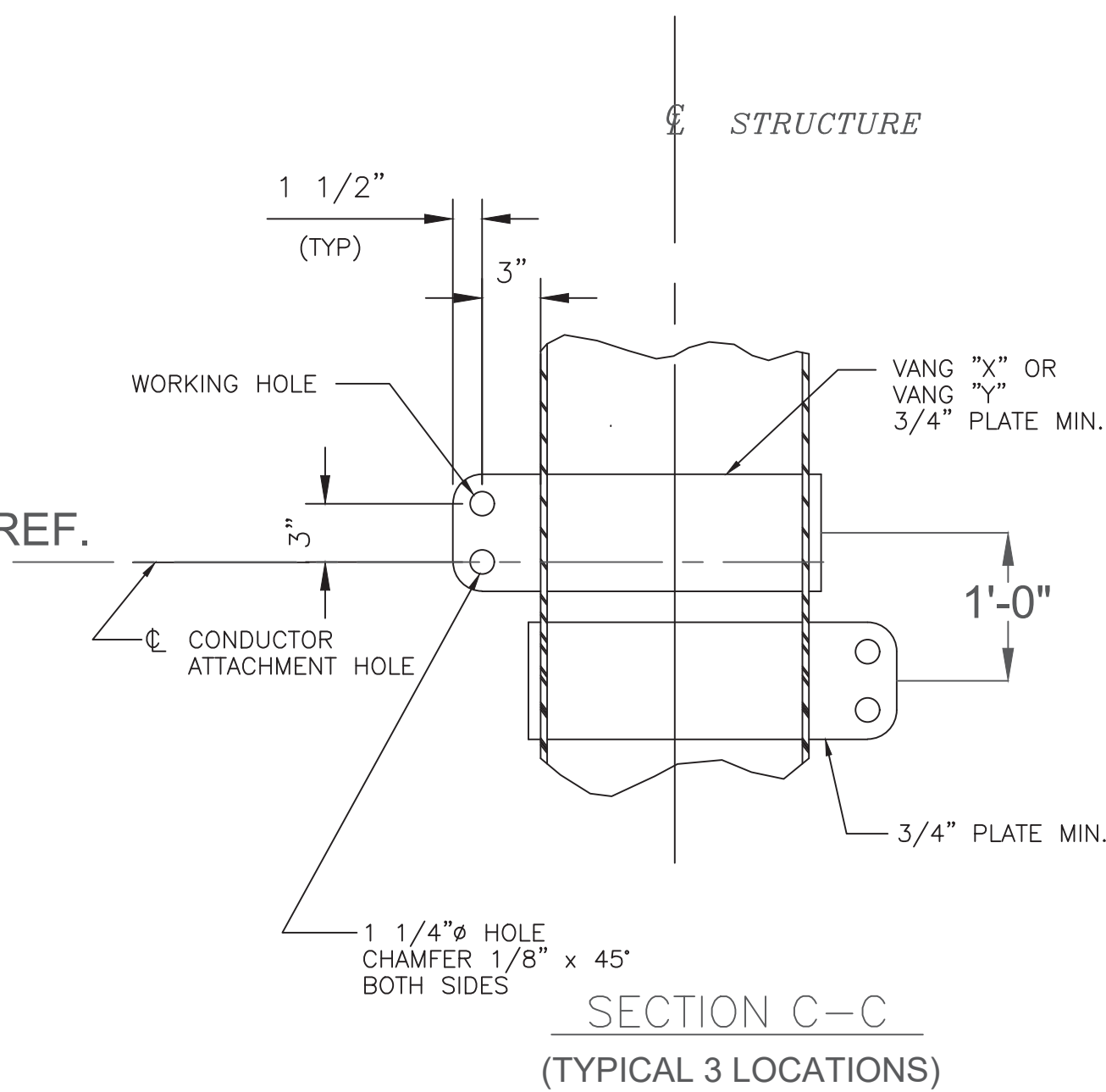
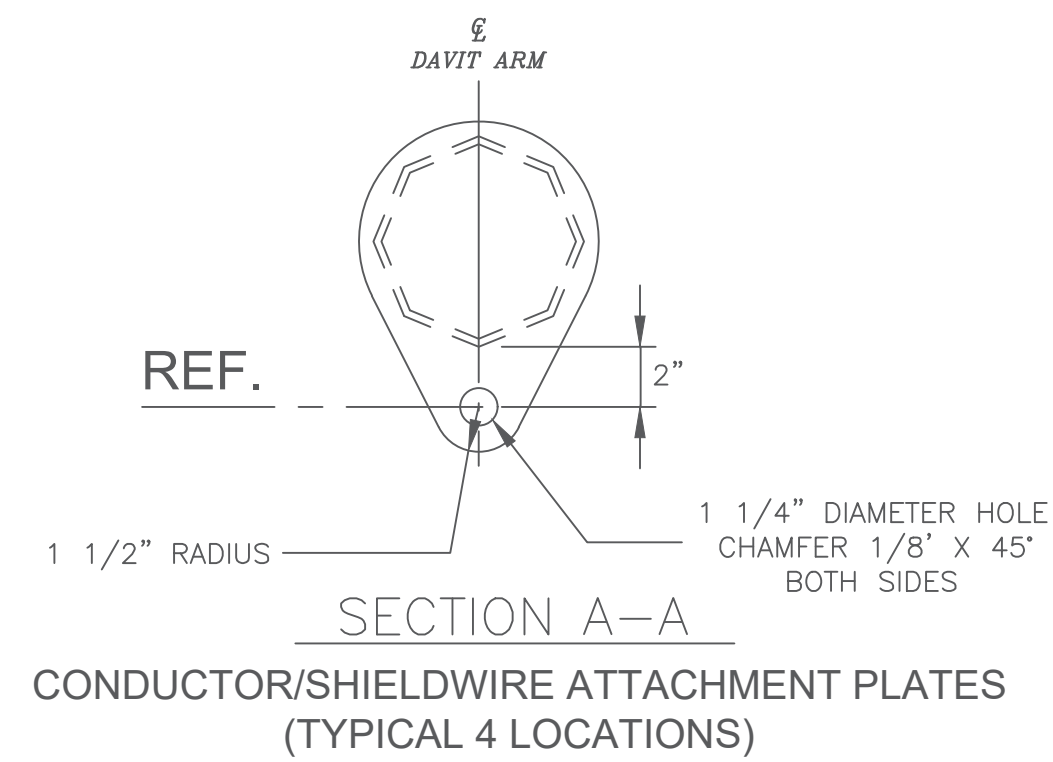
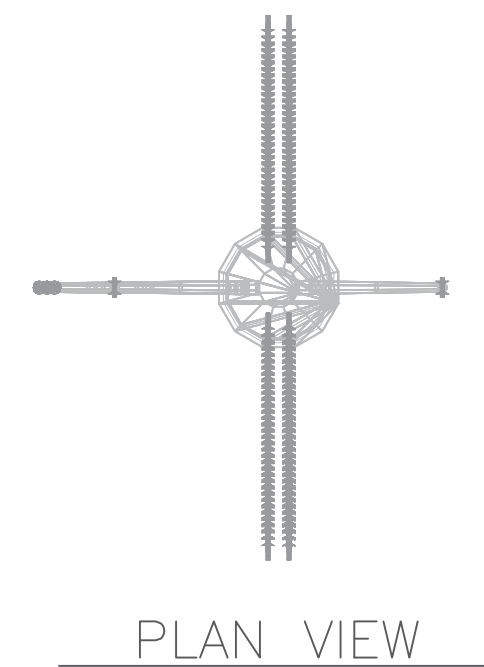
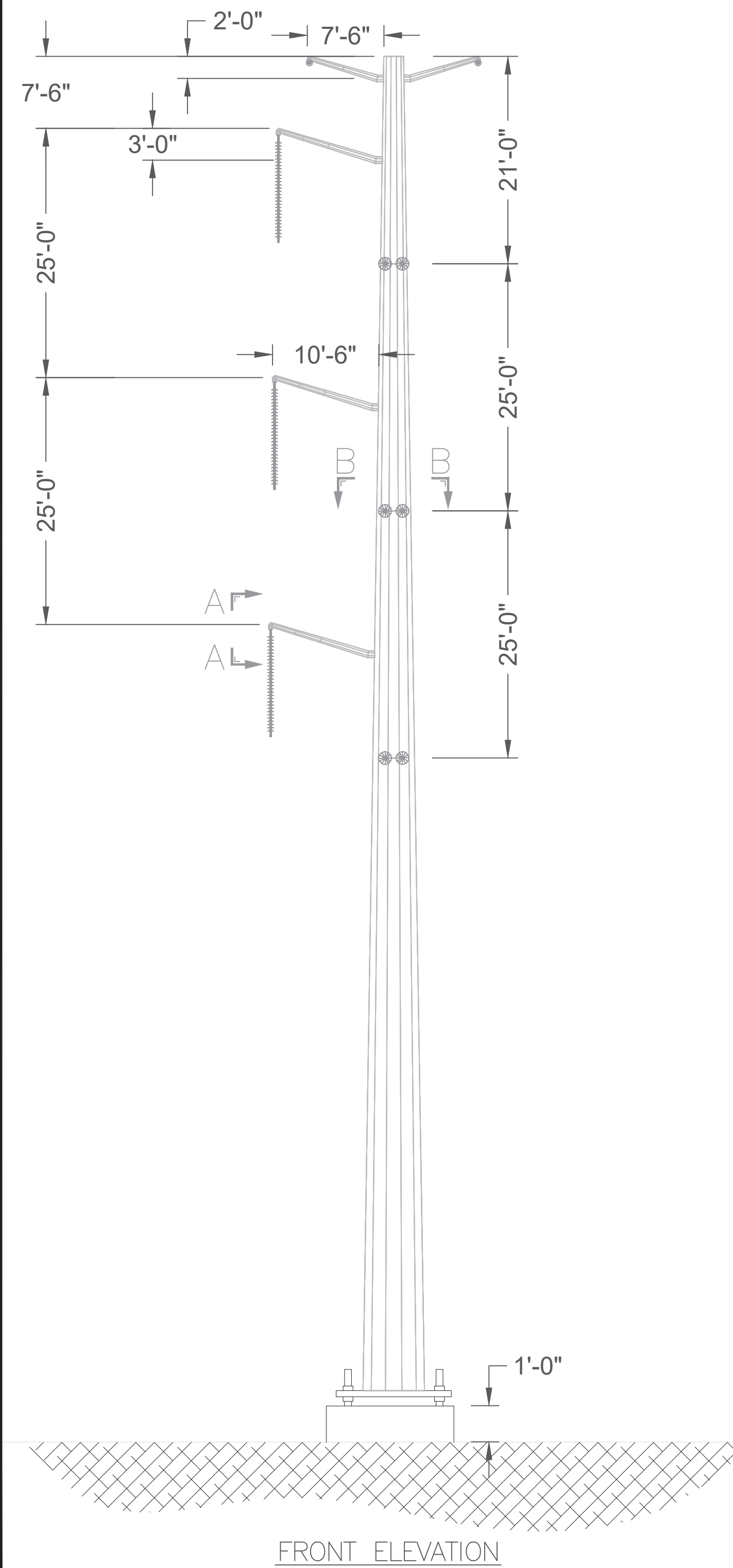
SHEET NO:

MPS-T-103-02

REV:

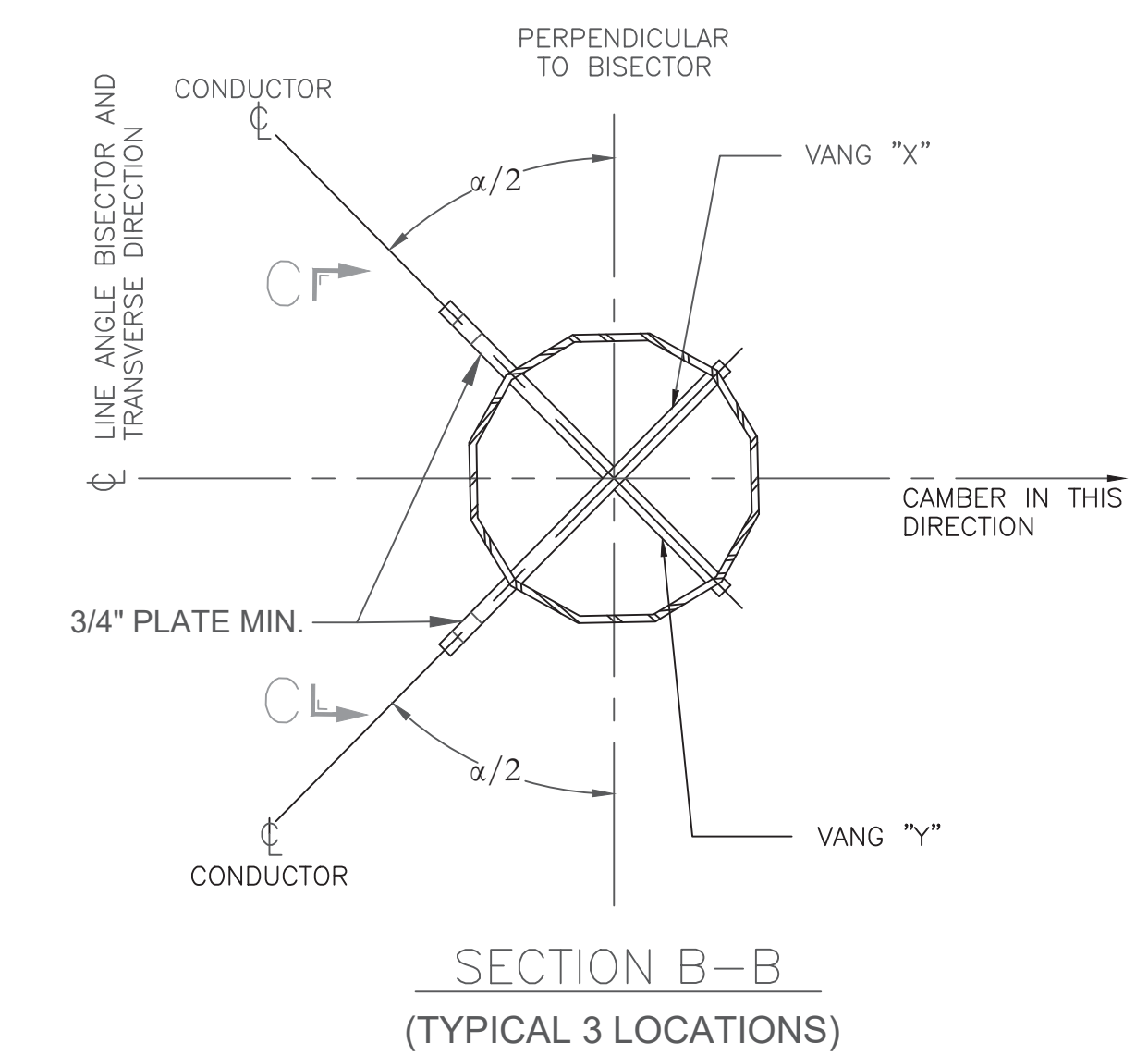
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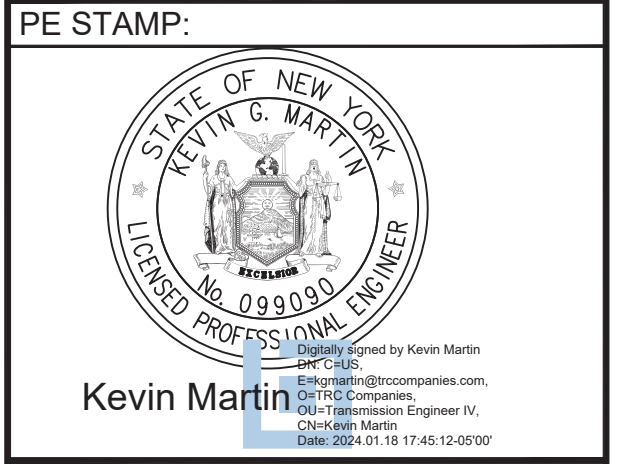


STRUCTURE INFORMATION								
STRUCTURE NUMBER	LINE ANGLE α (DEG.)	STRUCTURE HEIGHT (FT.)	DISCS/STRING	DISCS/LOOP STRING	STRINGS/PHASE	LOOP STRINGS/PHASE	DESIGN VOLTAGE	OPERATING VOLTAGE
GC STR. 1	4°25'25"	135'-0"	18	18	4	1	345 kV	345 kV
GC STR. 2	0°0'0"	135'-0"	18	18	4	1	345 kV	345 kV

NOTES:
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PRELIMINARY
 NOT FOR CONSTRUCTION



KEY PLAN:

NO.	DATE	DESCRIPTION
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REVISIONS:

NO.	DATE	DESCRIPTION
1	10/23/2023	ISSUED FOR 94-C PERMIT
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-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT TITLE:
MILL POINT SOLAR I PROJECT

PROJECT LOCATION:
TOWN OF GLEN MONTGOMERY CO., NY

SHEET TITLE & DESCRIPTION:
V1.ST.D1.MOD VERTICAL STEEL POLE DEAD-END

PROJ NUM:	XXXXXX
DES:	B. HACKLEY
DWN:	B. HACKLEY
CHK:	K. DRZEWIECKI
APV:	A. JAEGER
DATE:	10/23/2023
SCALE AT 22' x 34':	

NTS
 SHEET NO: **MPS-T-103-03** REV: **1**