

**NOTES:**

- 1. KEY REPRESENTATIVE COMPONENTS SHOWN IN THIS PRELIMINARY SINGLE LINE DIAGRAM.

**KEYED NOTES:**

- ① SOME INVERTERS ARE SG3300UD UNITS, SET TO 3150 KW-AC. SEE SUMMARY TABLE ON OVERALL SITE PLAN, SHEET MPS-E-400-01.

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**TRC** 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

PROJECT NO: 443269

REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP
	C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL
	B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL
	A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL



DATE: 01-12-2024  
LIC. EXP.: 09-30-2026

JAK  
DESIGNED  
JAK  
DRAWN  
JTG  
CHECKED  
DVL  
APPROVED

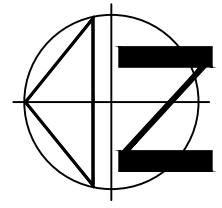
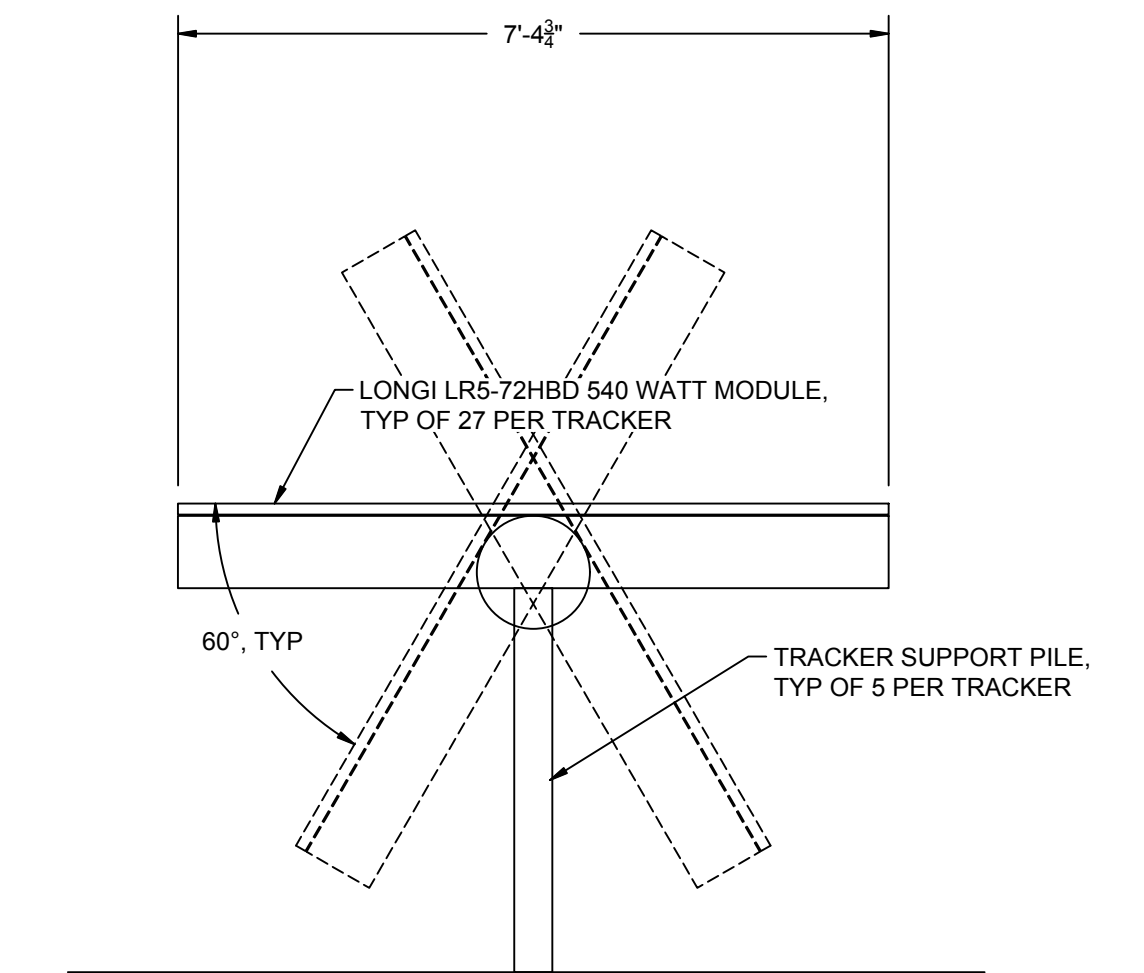
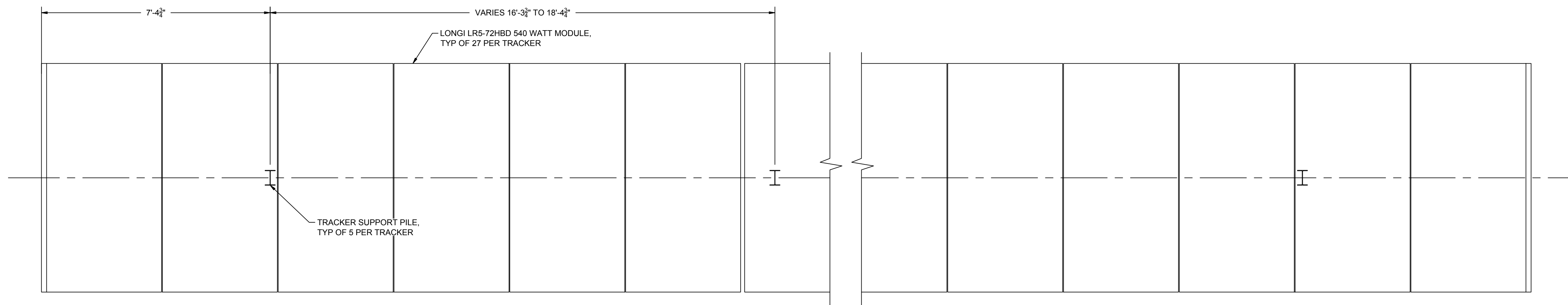
MILL POINT SOLAR I PROJECT  
CONNECTGEN MONTGOMERY COUNTY LLC  
TYPICAL DC SINGLE LINE DIAGRAM

GLEN NEW YORK



MPS-E-402-01

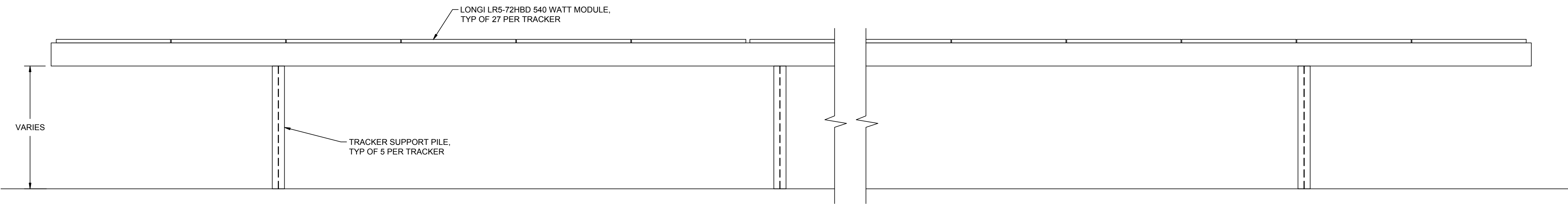
REV.  
C



APPROX.  
NORTH

**A** PLAN - SINGLE-AXIS TRACKER  
SCALE: 1/2"=1'-0" 0 1' 2' 4'

**C** END VIEW - SINGLE-AXIS TRACKER  
SCALE: 1/2"=1'-0" 0 1' 2' 4'



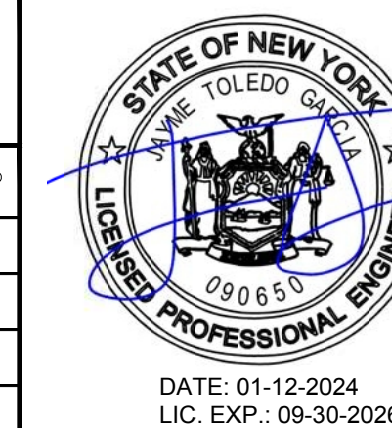
**B** ELEVATION - SINGLE-AXIS TRACKER  
SCALE: 1/2"=1'-0" 0 1' 2' 4'

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**TRC** 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

PROJECT NO: 443269

REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP
	C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL
	B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL
	A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL



JAK  
DESIGNED  
JAK  
DRAWN  
JTG  
CHECKED  
DVL  
APPROVED

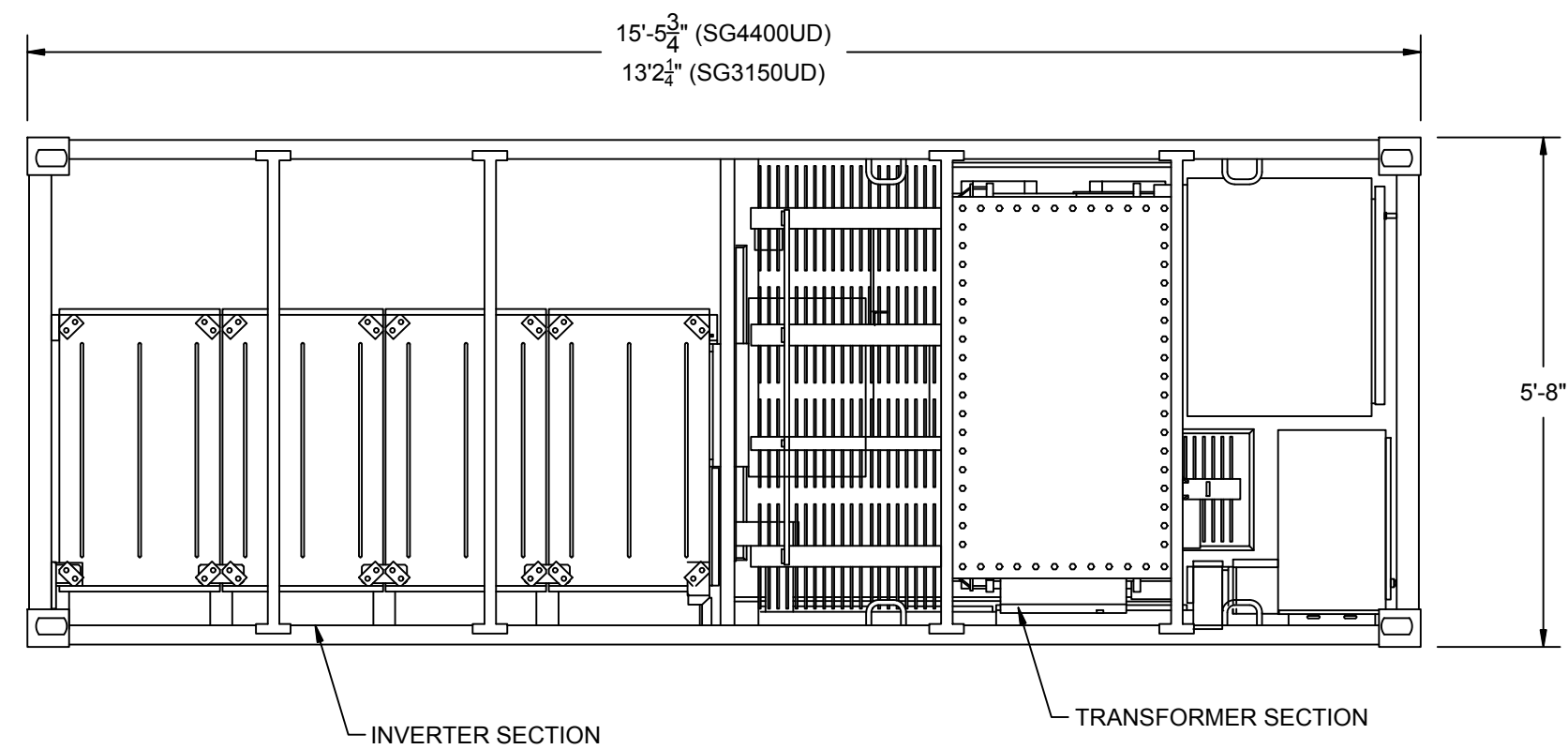
MILL POINT SOLAR I PROJECT  
CONNECTGEN MONTGOMERY COUNTY LLC  
SINGLE-AXIS TRACKER DETAILS

GLEN NEW YORK

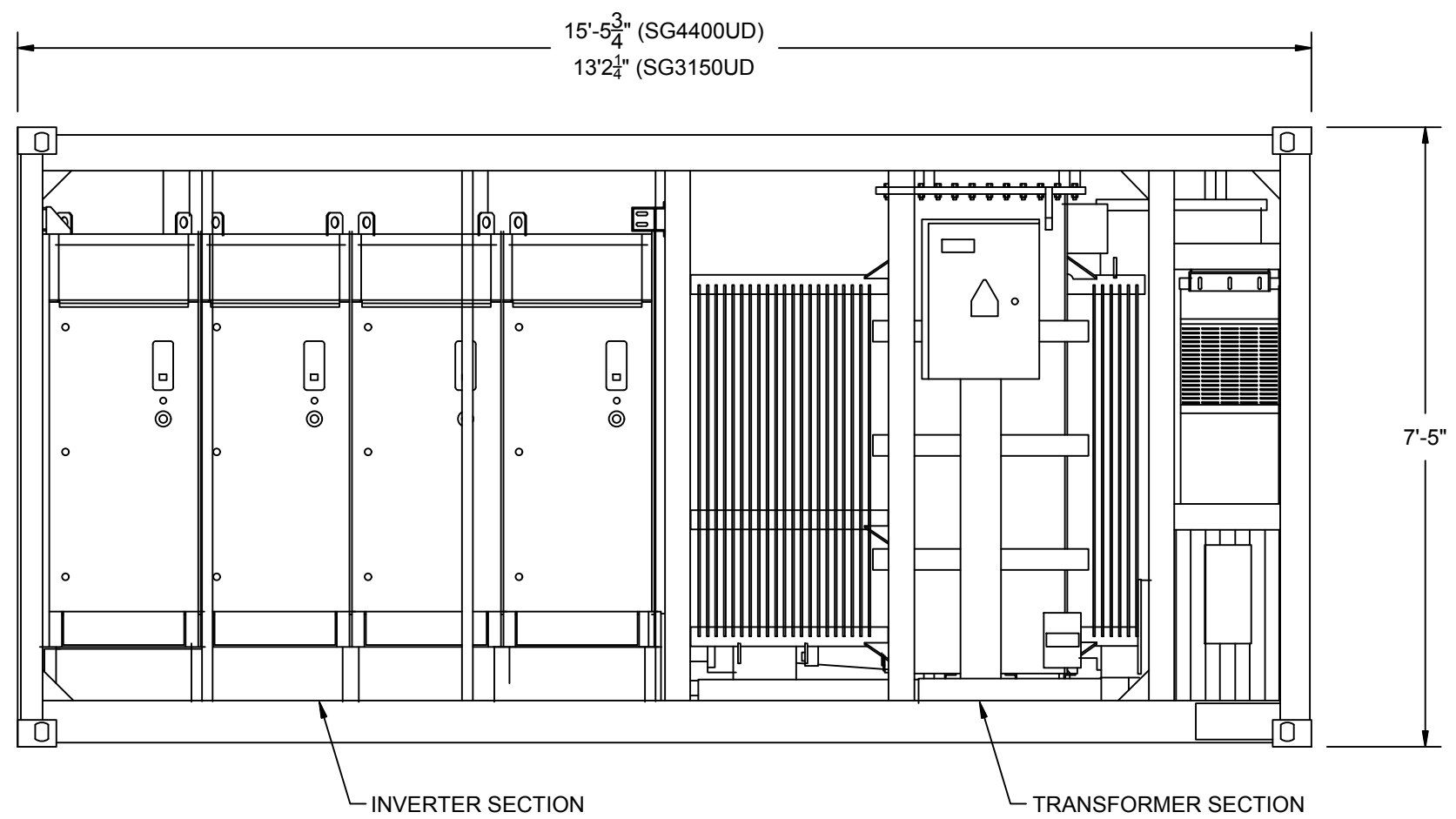
REVIEW 1 01/15/24 DATE  
REVIEW 2 AS NOTED SCALE

**TRC** MPS-E-403-01

REV.  
C



**A** PLAN - SUNGROW SG4400UD  
SCALE: 1/2"=1'-0" 0 1' 2' 4'



**B** ELEVATION - SUNGROW SG4400UD  
SCALE: 1/2"=1'-0" 0 1' 2' 4'

NOTES:  
1. SUNGROW SG4400UD SHOWN, SG3300UD SIMILAR.

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**TRC** 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

PROJECT NO: 443269

REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP
	C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL
	B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL
	A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL



JAK  
DESIGNED  
JAK  
DRAWN  
JTG  
CHECKED  
DVL  
APPROVED  
REVIEW 1  
REVIEW 2

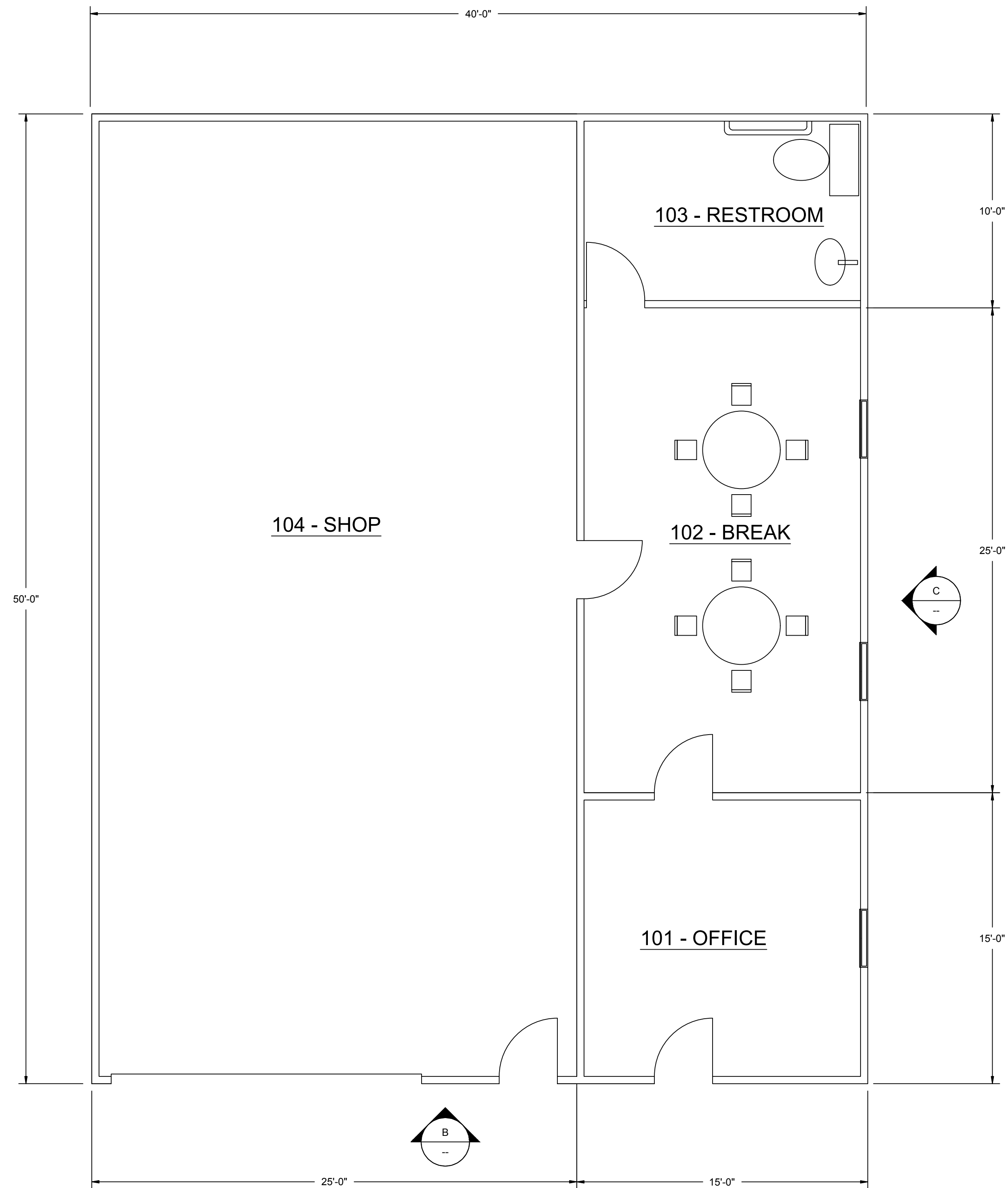
MILL POINT SOLAR I PROJECT  
CONNECTGEN MONTGOMERY COUNTY LLC  
INVERTER SKID PLAN AND ELEVATION

GLEN NEW YORK

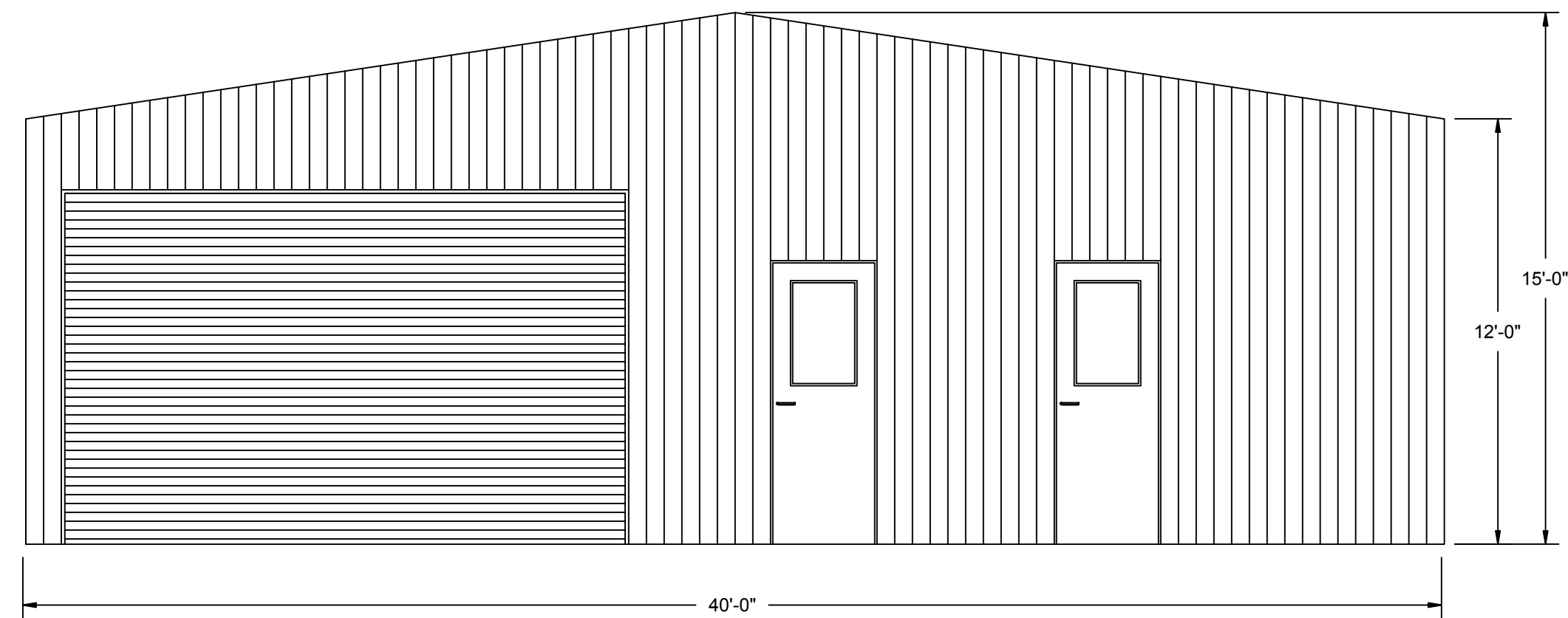


MPS-E-404-01

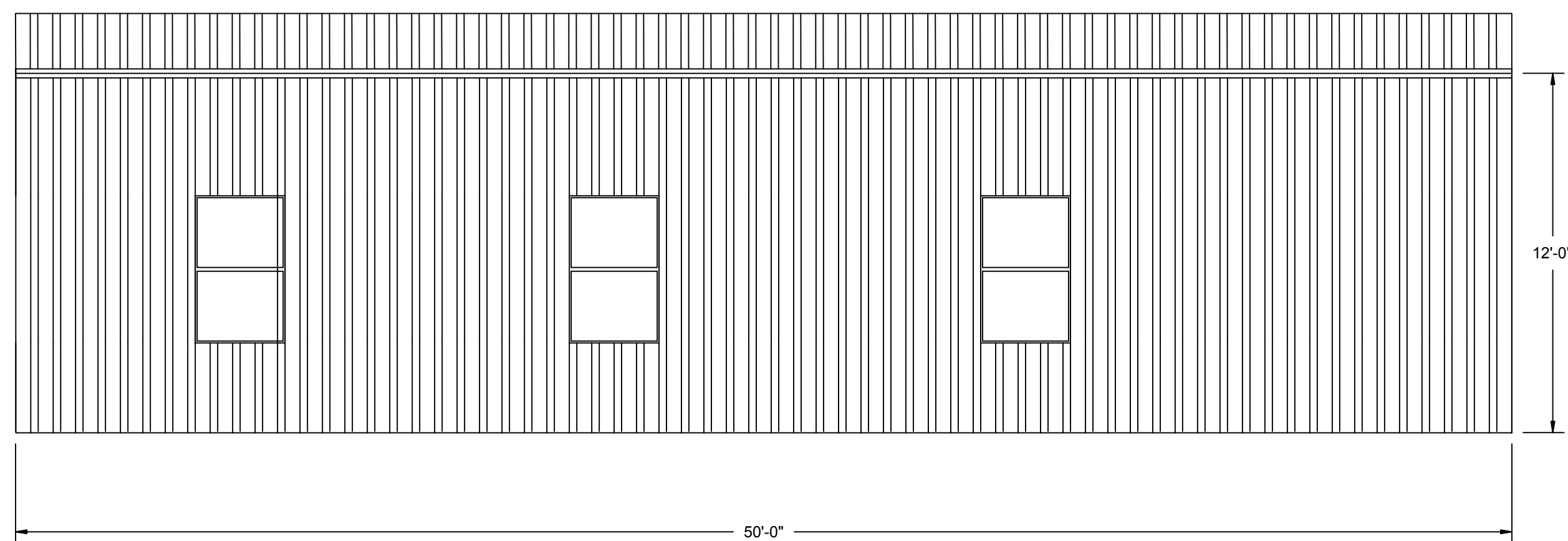
REV.  
C



**A** PLAN - O & M BUILDING  
SCALE: 1/4"=1'-0" 0 2 4 8



**B** ELEVATION - O & M BUILDING  
SCALE: 1/4"=1'-0" 0 2 4 8



**C** ELEVATION - O & M BUILDING  
SCALE: 1/4"=1'-0" 0 2 4 8

**PRELIMINARY**  
NOT FOR CONSTRUCTION

- NOTES:**
- FACILITY SCHEMATIC IS PRELIMINARY AND SUBJECT TO CHANGE WITH FINAL DETAILED DESIGN.
  - CONTRACTOR SHALL DESIGN, PROCURE, AND CONSTRUCT O&M FACILITY IN ACCORDANCE WITH LOCAL, COUNTY, AND/OR STATE BUILDING CODE.
  - CONTRACTOR SHALL APPLY AND PROCURE ALL PERMITS REQUIRED TO PROCURE, TRANSPORT, ERECT AND INSTALL THE O&M BUILDING AND ALL ITS EXTERNAL AND INTERNAL FACILITIES.

		670 NORTH COMMERCIAL STREET SUITE 203 MANCHESTER, NH 03101		PROJECT NO: 443269		
REV	DESCRIPTION	DATE	DES	CHK	APP	
C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL	
B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL	
A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL	



JAK DESIGNED	MILL POINT SOLAR I PROJECT		REV.
JAK DRAWN	CONNECTGEN MONTGOMERY COUNTY LLC		C
JTG CHECKED	O & M BUILDING PLAN AND ELEVATIONS		
DVL APPROVED	GLEN	NEW YORK	
REVIEW 1	01/15/24 DATE		MPS-E-405-01
REVIEW 2	AS NOTED SCALE		

REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP



## LR5-72HBD 520~540M

**High Efficiency  
Low LID Bifacial PERC with  
Half-cut Technology**

**-0.45%**  
30-year Power Warranty Annual Power Reduction

12-year Warranty for Materials and Processing;  
30-year Warranty for Extra Linear Power Output

**Complete System and Product Certifications**

IEC 61215, IEC 61730, UL 61730  
ISO 9000:2008 ISO 9001 Quality Management System  
ISO 14001:2004 ISO 14001 Environment Management System  
TSG2451: Outside for module design qualification and type approval  
DNVGL S1001: 2007 Occupational Health and Safety

**Front side performance equivalent to conventional low LID mono PERC:**

- High module conversion efficiency (up to 21.1%)
- Better energy yield with excellent low irradiance performance and temperature coefficient
- First year power degradation <2%

**Bifacial technology** enables additional energy harvesting from rear side (up to 25%)

**Glass/glass lamination** ensures 30 year product lifetime, with annual power degradation < 0.45%, 1500V compatible to reduce BOS cost

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

**Reduced relative loss** with lower operating current

**Higher energy yield** with lower operating temperature

**Reduced hot spot risk** with optimized electrical design and lower operating current

**LONGI**

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Tel: +86-21-80252006 E-mail: module@longi.com.cn Facebook: www.facebook.com/LONGI Solar

Notes: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGI have the sole right to revise such modification at anytime without further notice. Demanding party shall request for the latest database for such a contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

## SG3300/4400UD

Outdoor Inverter for 1500 Vdc System

Preliminary

- LOW LCOE**
  - Effective cooling, full power operation at 40 °C
  - Wireless communication in block, "0" cost networking cost
  - Q at night function (optional), saving investment
- SMART O&M**
  - Modular equipment, 1.1 - 8.8 MW block flexible design
  - Modular system, flexible PV DC/AC ratio and ESS capacity
  - Modular components, plug and play, no need professional
- SAFETY & RELIABLE**
  - DC arc fault protection, 200 ms cut off fault
  - 24h real-time AC insulation monitoring
  - IP65 protection, adapt to harsh environment
- GRID SUPPORT**
  - SCR ≥ 1.02, stable operation in extremely weak grid
  - Reactive power response time < 20 ms
  - Compliant with grid code

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## LR5-72HBD 520~540M

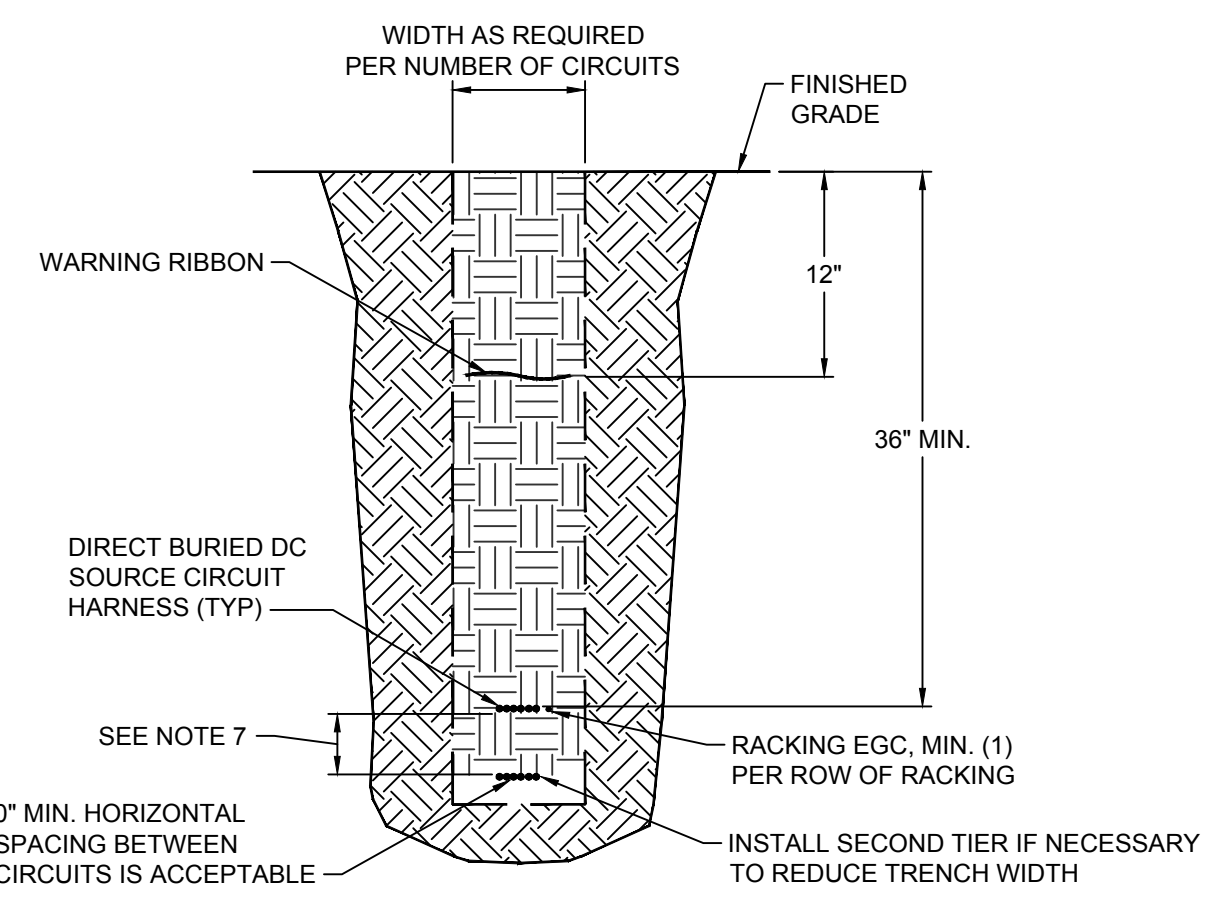
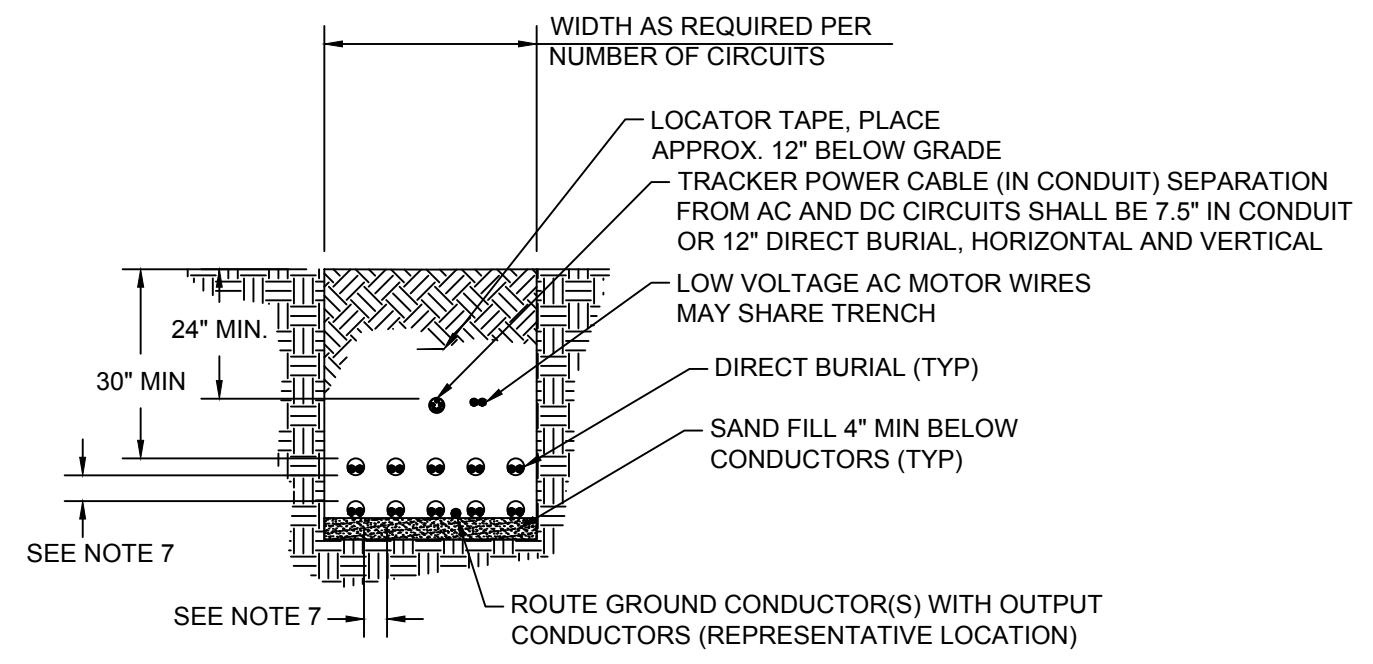
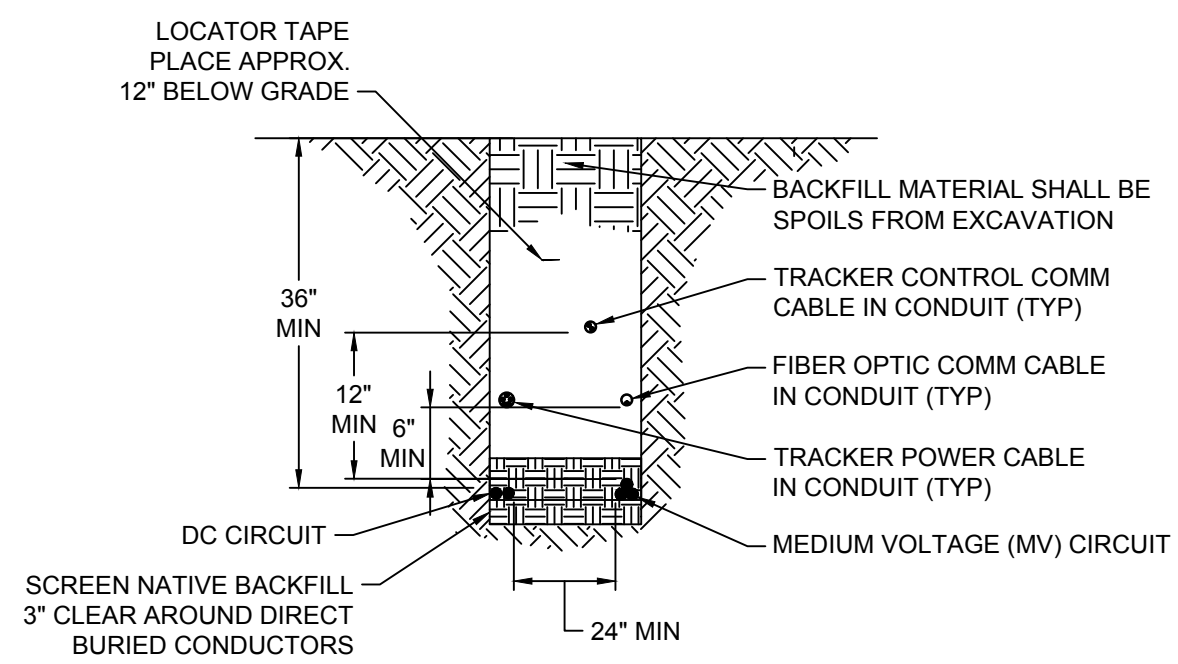
**Design (mm)**

**Mechanical Parameters**

Cell Orientation: 144 (6x6)

Front Side: 166, 170, 174, 178, 182, 186, 190, 194, 198, 202, 206, 210, 214, 218, 222, 226, 230, 234, 238, 242, 246, 250, 254, 258, 262, 266, 270, 274, 278, 282, 286, 290, 294, 298, 302, 306, 310, 314, 318, 322, 326, 330, 334, 338, 342, 346, 350, 354, 358, 362, 366, 370, 374, 378, 382, 386, 390, 394, 398, 402, 406, 410, 414, 418, 422, 426, 430, 434, 438, 442, 446, 450, 454, 458, 462, 466, 470, 474, 478, 482, 486, 490, 494, 498, 502, 506, 510, 514, 518, 522, 526, 530, 534, 538, 542, 546, 550, 554, 558, 562, 566, 570, 574, 578, 582, 586, 590, 594, 598, 602, 606, 610, 614, 618, 622, 626, 630, 634, 638, 642, 646, 650, 654, 658, 662, 666, 670, 674, 678, 682, 686, 690, 694, 698, 702, 706, 710, 714, 718, 722, 726, 730, 734, 738, 742, 746, 750, 754, 758, 762, 766, 770, 774, 778, 782, 786, 790, 794, 798, 802, 806, 810, 814, 818, 822, 826, 830, 834, 838, 842, 846, 850, 854, 858, 862, 866, 870, 874, 878, 882, 886, 890, 894, 898, 902, 906, 910, 914, 918, 922, 926, 930, 934, 938, 942, 946, 950, 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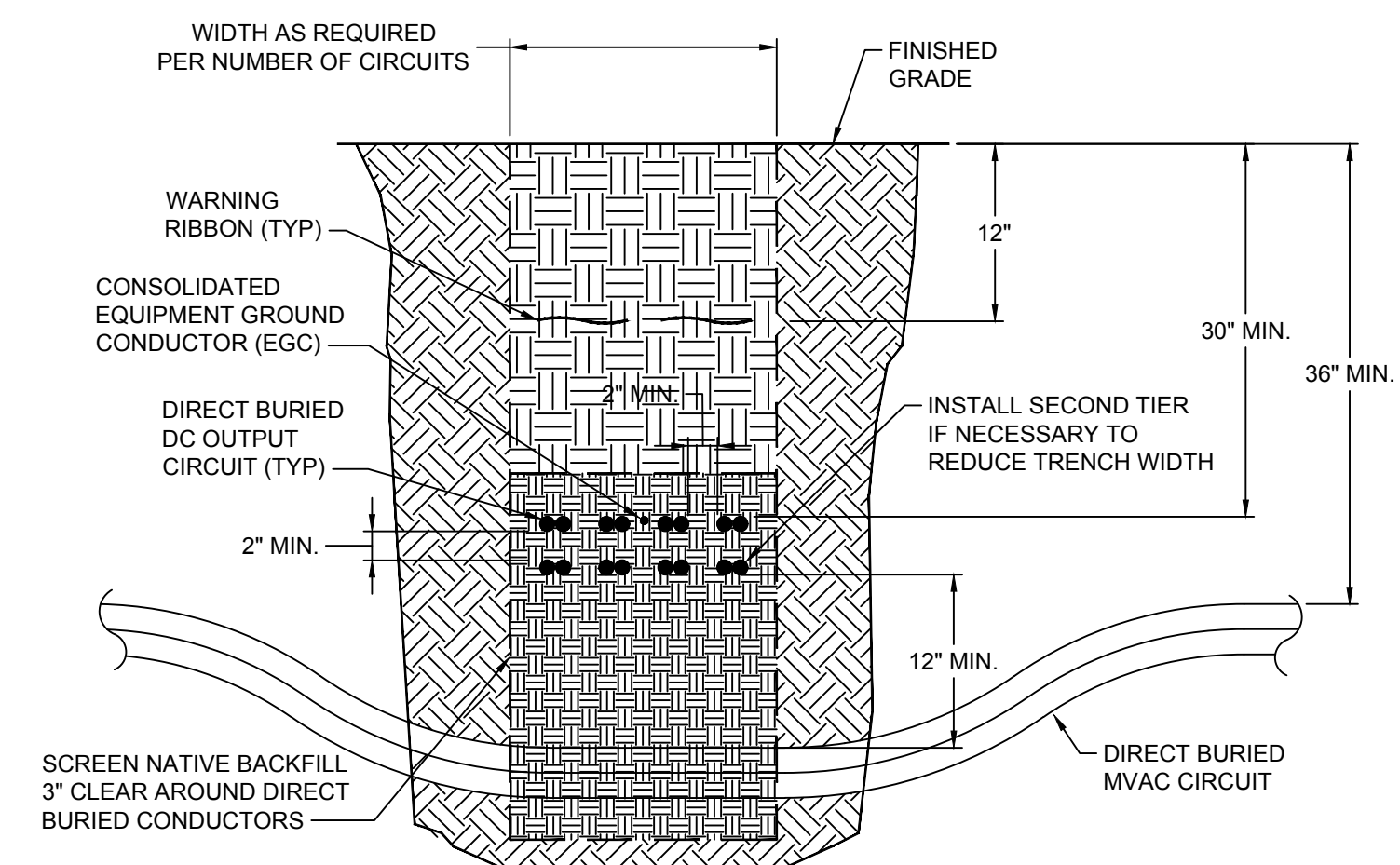
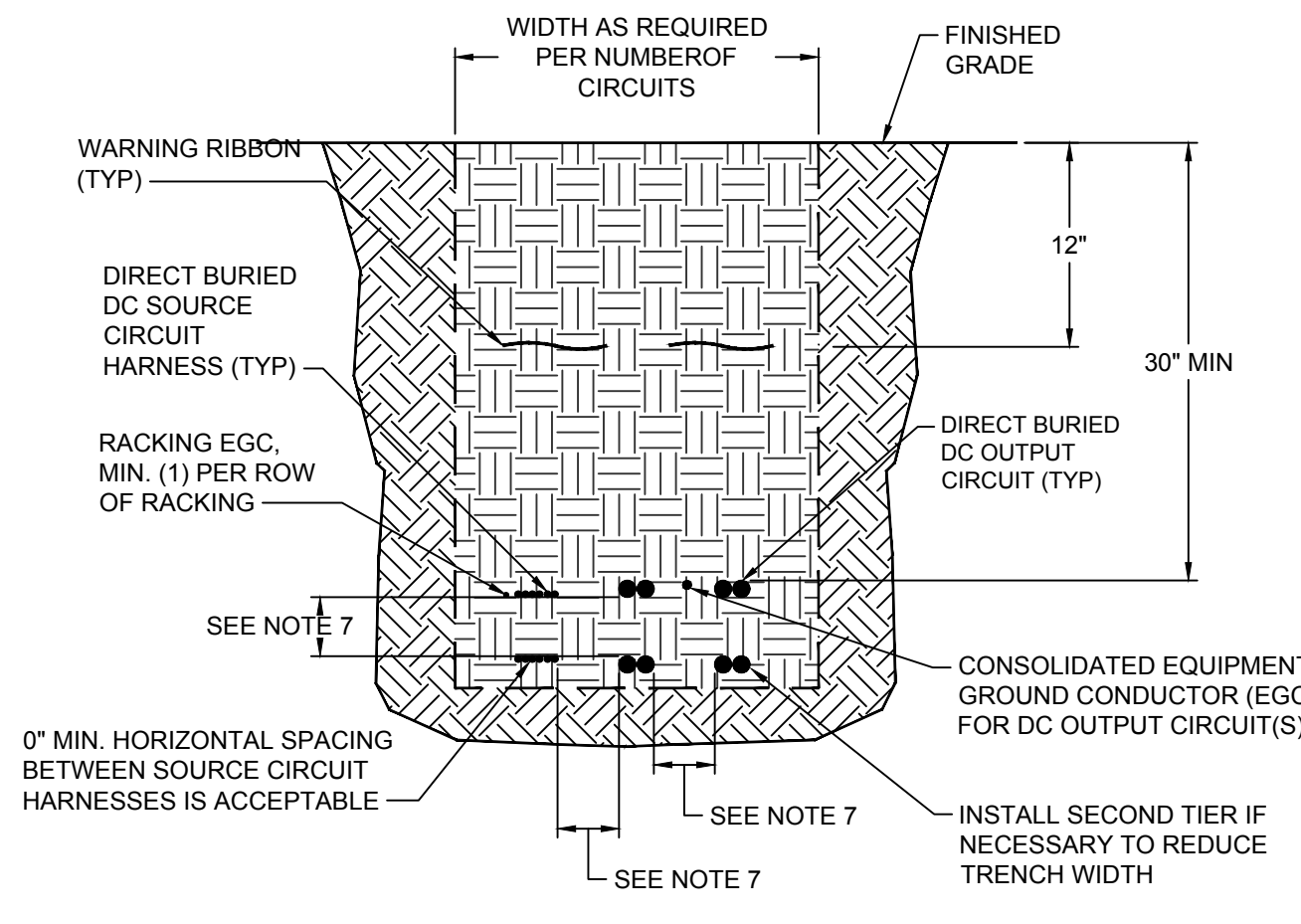


- TRENCHING NOTES:**
1. VEHICLE ACTIVITY AND SURFACE LOADING OVER THE BURIED CABLE SHALL NOT EXCEED THE RATED CRUSH TEST CAPACITY OF THE CABLE.
  2. THE DISTANCE BETWEEN TRENCHING AND A GIVEN PILE SHALL BE EQUAL TO AT LEAST 5 TIMES THE DIAMETER OF THAT PILE (TYP)
  3. BACKFILL UP TO 6" ABOVE DIRECT BURIAL CONDUCTORS SHALL BE IMPORTED SAND OR SCREENED LOCAL NATIVE SOIL. UNSCREENED NATIVE BACKFILL SHALL ONLY BE USED WITH WRITTEN APPROVAL OF ENGINEER OF RECORD. UNSCREENED NATIVE SOIL IS ACCEPTABLE FOR THE TOP 18" OF FILL.
  4. BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CINDERS, LARGE OR SHARPLY ANGULAR SUBSTANCES, OR CORROSIVE MATERIAL SHALL NOT BE PLACED IN AN EXCAVATION WHERE MATERIALS MAY DAMAGE RACEWAYS, CABLES, OR OTHER SUBSTRUCTURES OR PREVENT ADEQUATE COMPACTION OF FILL OR CONTRIBUTE TO CORROSION OF RACEWAYS, CABLES, OR OTHER SUBSTRUCTURES.
  5. COMPACTION OF TRENCHING SHALL OCCUR AFTER A MAXIMUM OF 9" OF BACKFILL HAS BEEN APPLIED. COMPACT BACKFILL BEFORE PLACING A DIFFERENT TYPE OF BACKFILL (E.G., FROM SAND TO NATIVE); COMPACTION VALUE SHALL BE PER GEOTECHNICAL RECOMMENDATIONS.
  6. EQUIPMENT GROUNDING CONDUCTORS SHARING THE SAME TRENCH MAY BE COMBINED USING EXOTHERMIC WELDING AND/OR APPROVED COMPRESSION CONNECTORS.
  7. MIN. CLEARANCES SHALL BE MAINTAINED BETWEEN CIRCUITS / CONDUITS AS SHOWN IN TRENCH DETAIL(S).
  8. NECESSARY COMPACTION OF TRENCH SOIL BACKFILL SHALL OCCUR PER GEOTECHNICAL REQUIREMENTS.
  9. DIRECT BURIED EQUIPMENT GROUNDING CONDUCTORS SHARING THE SAME TRENCH MAY BE COMBINED USING EXOTHERMIC WELDING, OR APPROVED EQUIVALENT IRREVERSIBLE CRIMP.
  10. EACH HORIZONTAL TIER OF CABLE SHALL BE COVERED WITH BACKFILL MATERIAL AND COMPACTED PRIOR TO INSTALLATION OF THE NEXT TIER IN ORDER TO MAINTAIN THE REQUIRED VERTICAL SPACING BETWEEN CIRCUITS.
  11. THE NUMBER OF CONDUITS / CIRCUITS SHOWN IS REPRESENTATIVE AND WILL VARY PER PLANS.
  12. FINISHED SURFACE SHALL BE RESTORED TO ORIGINAL CONDITION AND APPEARANCE.
  13. [ ] VERTICAL SEPARATION; [ ] HORIZONTAL SEPARATION. *[EDITORIAL NOTE: TRC ENGINEER TO DETERMINE MINIMUM SEPARATION DURING DETAILED DESIGN. INSERT VALUES AND REMOVE THIS EDITORIAL NOTE WHEN DONE.]*

**A DC, AC, MV CIRCUITS AND TRACKER MOTOR AND CONTROL TRENCH DETAIL**  
SCALE: NTS

**B LOW VOLTAGE (1500V AND UNDER) AC & DC TRENCH DETAIL**  
SCALE: NTS

**C DC SOURCE CIRCUIT TRENCH SECTION**  
SCALE: NTS



**D DC OUTPUT & DC SOURCE CIRCUIT TRENCH SECTION**  
SCALE: NTS

**E DC OUTPUT CIRCUIT & MVAC CIRCUIT CROSSING**  
SCALE: NTS

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**TRC** 670 NORTH COMMERCIAL STREET SUITE 203  
MANCHESTER, NH 03101

PROJECT NO: 443269

REV	DESCRIPTION	DATE	DES	CHK	APP
C	ISSUED FOR 94-C	01/15/24	JAK	JTG	DVL
B	ISSUED FOR REVIEW	09/01/23	JAK	JTG	DVL
A	ISSUED FOR REVIEW	08/11/23	JAK	JTG	DVL



MILL POINT SOLAR I PROJECT  
CONNECTGEN MONTGOMERY COUNTY LLC  
DC TRENCH DETAILS

GLEN NEW YORK

DATE: 01-12-2024  
LIC. EXP.: 09-30-2026

JAK DESIGNED  
JAK DRAWN  
JTG CHECKED  
DVL APPROVED

REVIEW 1  
REVIEW 2

01/15/24  
DATE AS NOTED  
SCALE

**TRC** MPS-E-407-01

REV. C