



**STUDY PLAN NOTES:**

1. THE SITE IS LOCATED ON THE CITY OF NEWTON ASSESSOR'S PARCEL NO. 84034 0002D.
2. THE SITE IS APPROXIMATELY 8.56± ACRES AND IS ZONED LM.
3. THE OWNER OF ASSESSOR'S PARCEL NO. 84034 0002D IS: TCD 234 MA WELLS PROPERTY LLC  
2 INTERNATIONAL PLACE STE 2710  
BOSTON, MA 02110
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (SHADED AND NON-SHADED) AND ZONE AE (WITH BFE AT 90 FEET). REFERENCE FEMA FLOOD INSURANCE RATE MAP 2507C0562E, MAP REVISED JUNE 4, 2010.
5. TOPOGRAPHY WAS OBTAINED FROM LIDAR MAPS. ELEVATIONS ARE APPROXIMATE AND REFERENCED TO THE NAVD '83 US FEET DATUM. PRIOR TO ANY DEVELOPMENT ON THE SITE, THE OWNER SHALL VERIFY ELEVATIONS USING FIELD SURVEY.
6. THE SITE CONTAINS THE FOLLOWING:  
FEMA FLOOD ZONE  
CITY FLOODPLAIN DISTRICT  
NATURAL HERITAGE AREAS  
RIVERS PROTECTION ACT AREA  
WETLAND BUFFER AREA

**DIMENSIONAL REGULATIONS:**

CURRENT ZONING:	LM
REQUIRED:	
MINIMUM LOT AREA:	N/A
MINIMUM FRONTAGE AND LOT WIDTH:	N/A
MINIMUM FRONT YARD:	25 FT
MINIMUM SIDE AND REAR YARD:	40 FT ABUTTING RESIDENTIAL/PUBLIC USE DISTRICT 20 FT NOT ABUTTING RESIDENTIAL DISTRICT
MAXIMUM STRUCTURE HEIGHT:	5 FT PARKING SETBACK 36 FT
MAXIMUM LOT COVERAGE:	25%

**ABBREVIATIONS:**

EXISTING	EX
PROPOSED	PR
ASSESSOR'S PLAT	AP
NOW OR FORMERLY	N/F

**CERTIFICATION NOTE:**

THE EXISTING DATA COMPILED ON THIS STUDY PLAN IS FROM EXISTING MAPS AND RECORDED DATA. DUE TO METHODS OF COMPILATION AND ACCURACY OF SOME MAPS USED TO COMPILE THIS PLAN, THERE MAY BE SOME DEVIATIONS FROM SAID MAPS AND/OR DATA AND THIS PLAN. THERE ARE MANY FACTORS WHICH LEAD TO THESE DEVIATIONS INCLUDING THE ACCURACY OF SAID MAPS AND DATA, AND KNOWN SITE FEATURES SUCH AS STONE WALLS, ROADWAYS, AND BUILDINGS. THESE DEVIATIONS ARE COMMON WHEN COMPILING MAPS AND DATA FROM VARIOUS SOURCES AND CANNOT BE AVOIDED WITHOUT AN ACTUAL FIELD SURVEY AND DEED RESEARCH. THIS PLAN IS TO BE UTILIZED FOR DISCUSSION PURPOSES ONLY. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.

**DESIGN NOTES:**

SYSTEM SUMMARY:	DC PV SIZE:	749.76 KW
	# OF PV MODULES:	1562±
	PV MODULE #:	G PEAK DUO
	INVERTER MODEL:	12 Nos CHINT INVERTER - 36KW 1 Nos CHINT INVERTER - 60KW

SYSTEM DESIGN BY OTHERS.

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND THE CONSERVATION COMMISSION AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. ALL EROSION CONTROL MUST BE INSTALLED PER THE LATEST EDITION OF THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS (MESCG). NOTE THE SOIL EROSION AND SEDIMENT CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY/TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED BY DIPRETE ENGINEERING TO MEET THE OBJECTIVES OF THE MESCG, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES/ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE MESCG BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS, WEATHER, INSPECTIONS AND UNIQUE FEATURES.
3. THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER. STOCKPILES AND STAGING AREAS MUST BE PROTECTED WITH SEDIMENT BARRIERS TO PREVENT SEDIMENT TRACKING.
4. INLET PROTECTION MUST BE INSTALLED ON ALL EXISTING CATCH BASINS WITHIN THE LIMIT OF WORK OR DOWNSTREAM FROM THE LIMIT OF WORK.
5. CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
6. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS, INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK, MUST BE RESTORED TO MATCH EXISTING CONDITIONS.

**STUDY PLAN - 492kW AC CANOPY  
155 WELLS AVE**

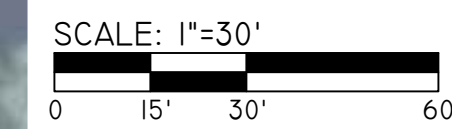
ASSESSOR'S PARCEL NO. 84034 0002D  
CITY OF NEWTON, MA

**APPLICANT: PLANKTON ENERGY, LLC**  
155 WATER STREET  
BROOKLYN, NY 11201



Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

DATE: 12/13/2022  
DRAWN BY: MID



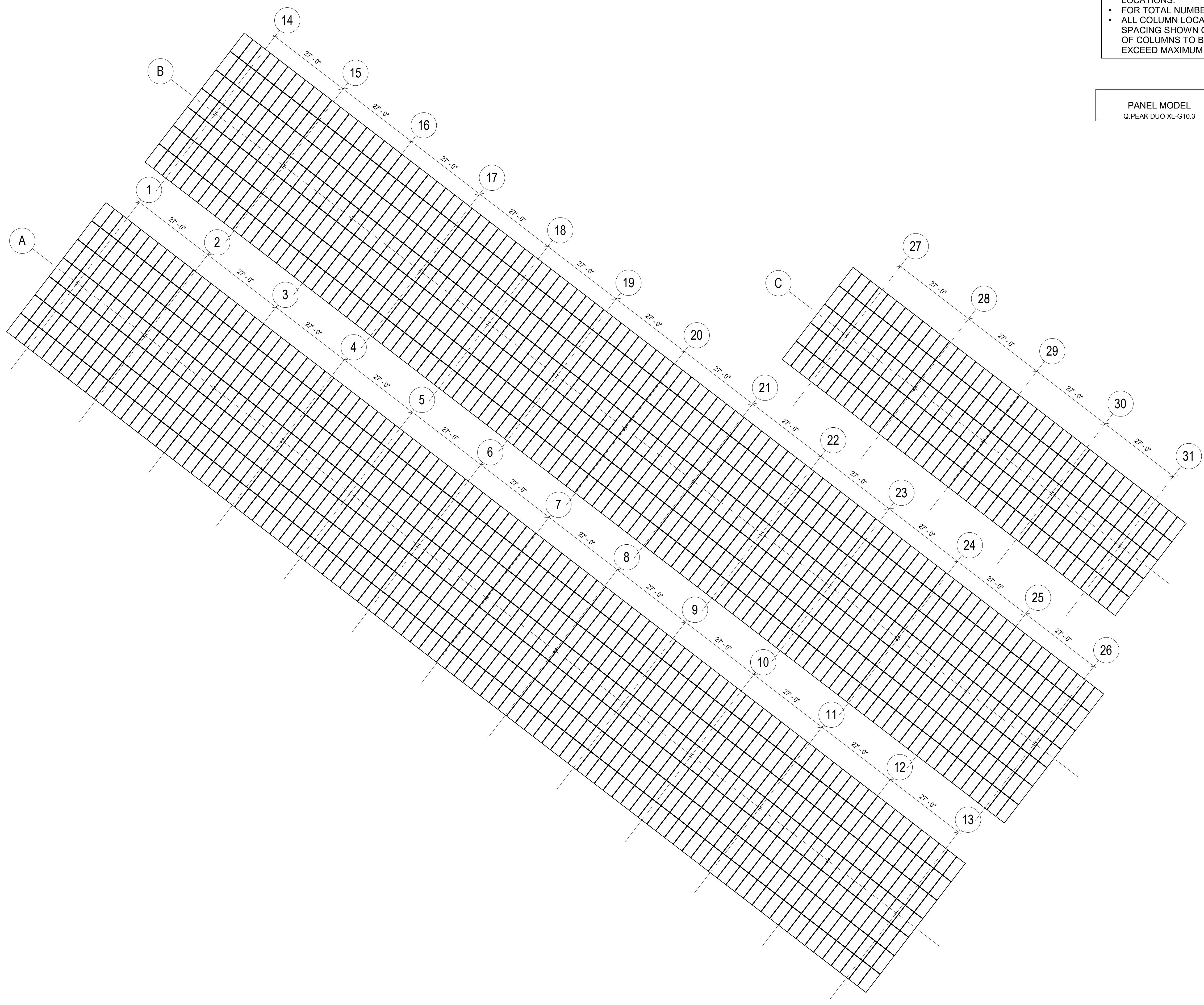
Z:\NEWTON\PROJECTS\2845-004 WELLS AVENUE AUTOCAD DRAWINGS\2845-004-C09-0223\03.DWG PLOTTER: 01/13/2022



NOTE:  
 • THIS IS NOT A SITE PLAN. THIS PLAN IS INTENDED ONLY TO SHOW APPROXIMATE LOCATION OF STRUCTURES ON SITE. REFERENCE PROJECT SITE PLAN FOR EXACT LOCATIONS.  
 • FOR TOTAL NUMBER OF SOLAR MODULES, REFERENCE ELECTRICAL DRAWINGS.  
 • ALL COLUMN LOCATIONS ARE PRELIMINARY AND BASED ON MAXIMUM COLUMN SPACING SHOWN ON INDIVIDUAL STRUCTURE PLANS. ACTUAL NUMBER AND SPACING OF COLUMNS TO BE DETERMINED BY CONTRACTOR. IN NO CASE SHALL COLUMNS EXCEED MAXIMUM COLUMN SPACING.

PANEL MODEL	LENGTH	WIDTH	TOTAL PANELS
Q PEAK DUO XL-G10.3	87.24"	41.14"	1562

NUMBER OF COLUMNS	
COLUMNS	31



1 OVERALL LAYOUT  
 1/16" = 1'-0"

NOT FOR  
 CONSTRUCTION

WELLS AVE CANOPY  
 111 WELLS AVE  
 NEWTON, MA 02459

No.	Description	Date
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PROJECT NUMBER: 22489  
 DRAWN BY: KS  
 CHECKED BY: JE  
 DATE: 10/26/2022

SHEET NAME  
 OVERALL LAYOUT

## SHEET NOTES

- FOR STRUCTURE LOCATIONS REFERENCE PROJECT SITE PLAN. COLUMN SPACING AND LOCATIONS SHALL BE COORDINATED WITH PROJECT ARCHITECT OR PROFESSIONAL RESPONSIBLE FOR SITE PLAN.
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. DIMENSIONS, ELEVATIONS WHERE SHOWN ARE TO BE USED AS AN AID AND SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
- FOR ADDITIONAL INFORMATION, REFERENCE GENERAL STRUCTURAL NOTES.

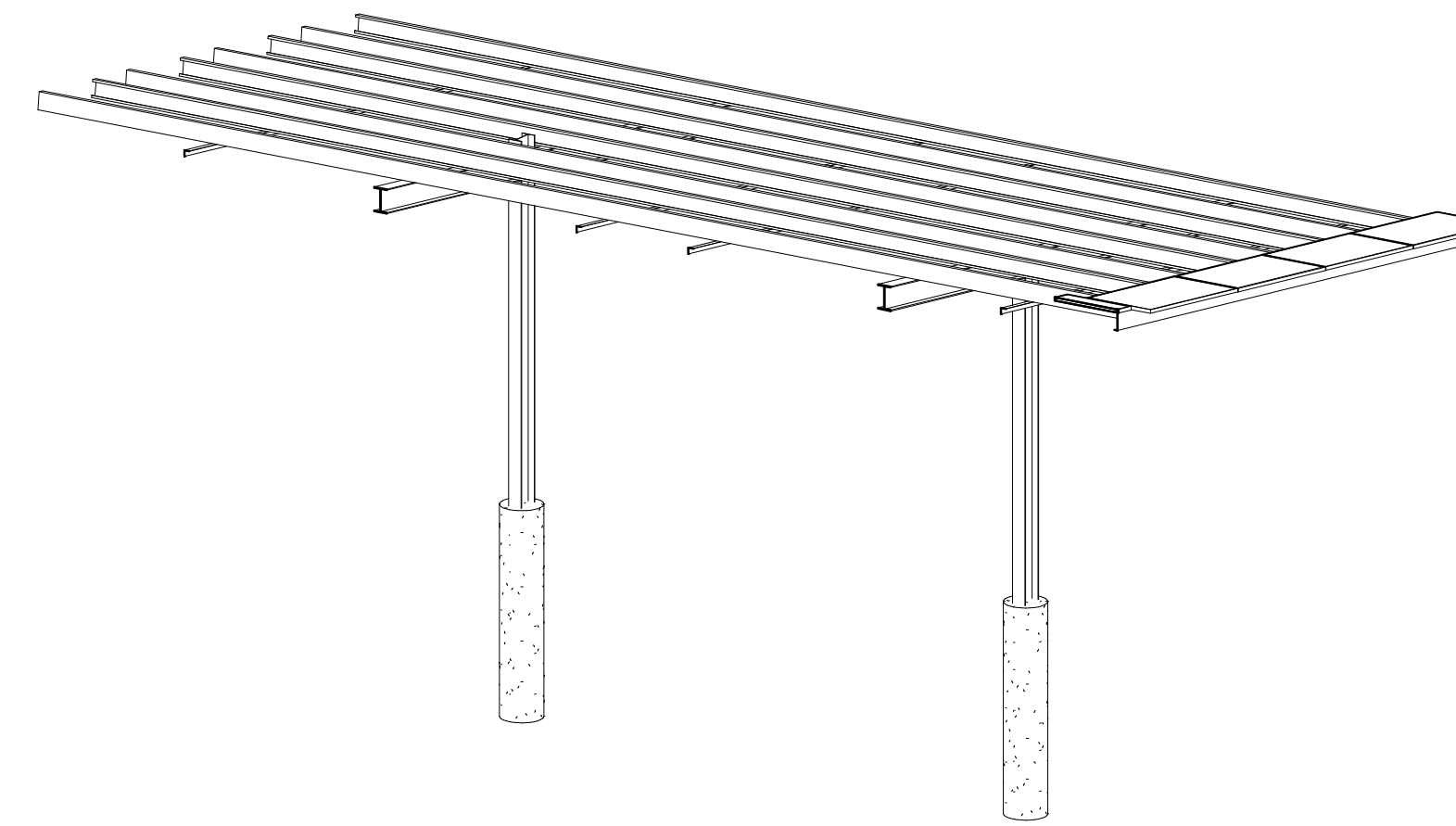
## PV PANEL INFORMATION

- CONTRACTOR TO VERIFY PANEL INFORMATION PRIOR TO FABRICATION AND ERECTION.
- THE PANEL INFORMATION BELOW AND IN THE PLANS WAS PROVIDED BY THE OWNER DURING THE DESIGN PHASE AND PRIOR TO THE START OF CONSTRUCTION. ALL PANEL INFORMATION INDICATED IN THESE DRAWINGS IS FOR REFERENCE ONLY AND SHALL BE VERIFIED WITH THE OWNER, THE ELECTRICAL DRAWINGS AND THE GENERAL CONTRACTOR PRIOR TO FABRICATION AND PRIOR TO CONSTRUCTION.
- THE OWNER IS TO PROVIDE A PANEL CAPABLE OF SUPPORTING IN MANOR IN WHICH IS INTENDED BY THESE DRAWINGS (I.E. SUPPORTED BY SHORT END, DUAL SUPPORTS, ETC). SUBMIT PANEL SPEC SHEETS FOR REVIEW PRIOR TO PURCHASING ANY PANELS.
- THE PANEL MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE PANELS INCLUDING ALL ITS COMPONENTS. PHOTOVOLTAIC PANELS AND ITS COMPONENTS SHALL BE DESIGNED TO SUPPORT PANEL WEIGHT PLUS SNOW, WIND, OR SEISMIC LOADING, WHICHEVER COMBINATION PRODUCES THE MOST SEVERE CONDITION IN ACCORDANCE WITH THE BUILDING CODE.

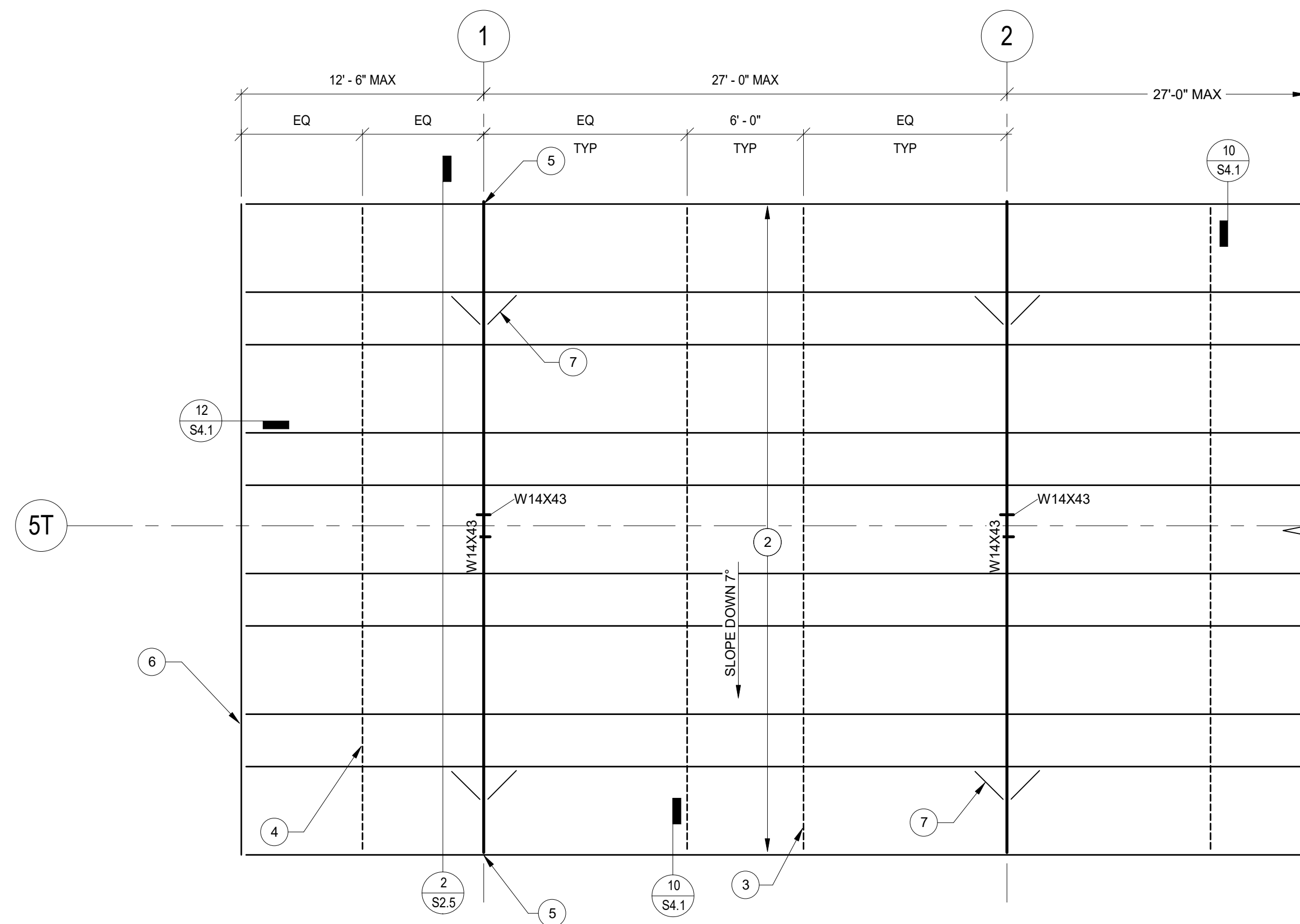
PANEL MODEL	LENGTH	WIDTH
Q.PEAK DUO XL-G10.3	87.24"	41.14"

## KEYNOTES

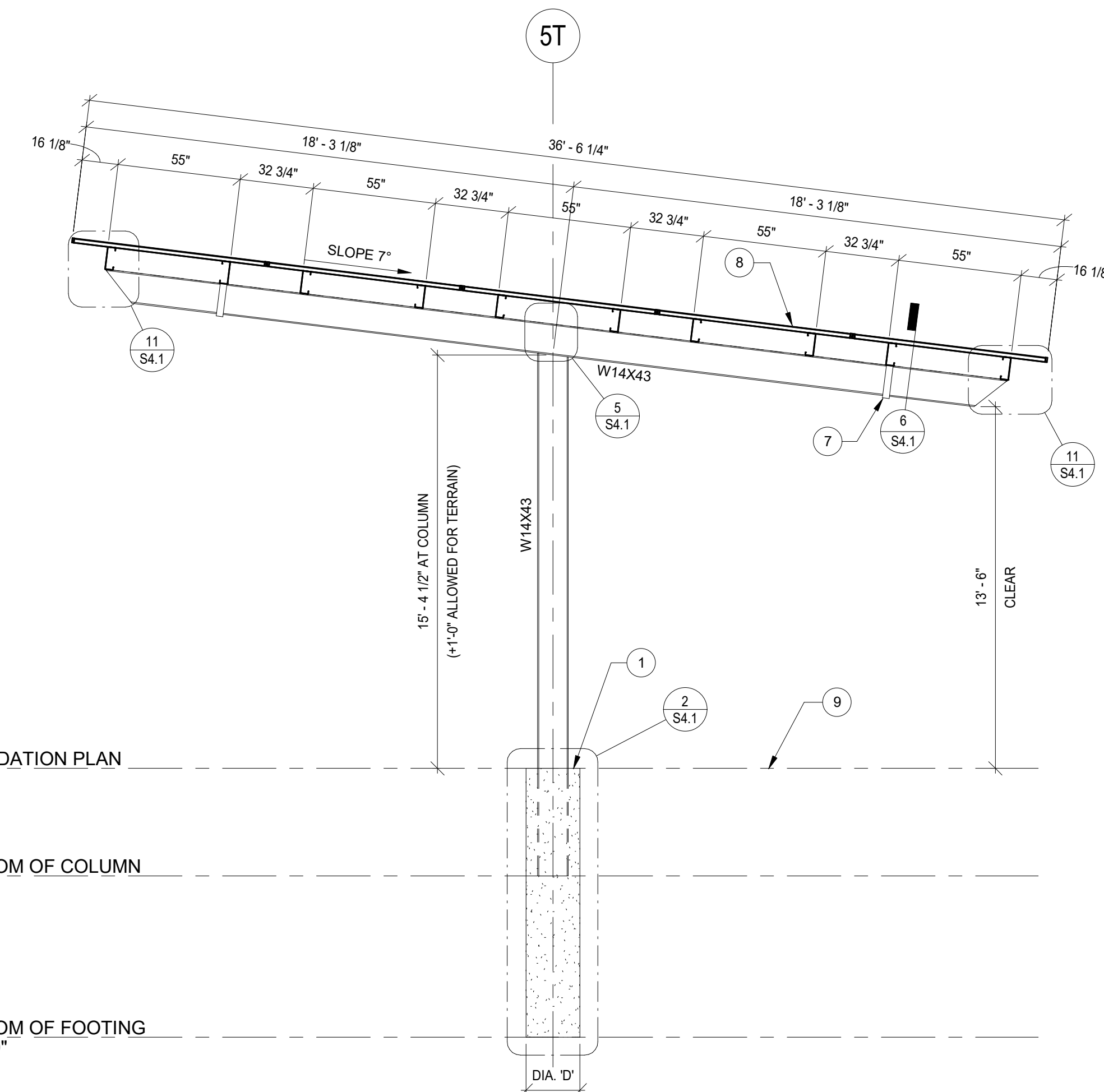
- DRILLED CONCRETE POLE FOOTING. FOR DIAMETER AND EMBEDMENT OF FOOTING SEE FOUNDATION PLAN AND SECTION ON THIS SHEET. SEE DETAIL 2/S4.1 FOR REINFORCING AND STEEL COLUMN ANCHORAGE.
- C "x" x" GAUGE COLD FORMED STEEL PURLINS. TYPICAL. COORDINATE EXACT LOCATION WITH SOLAR PANEL MANUFACTURER SPECIFICATIONS. SEE DETAIL 9/S4.1 FOR MORE INFORMATION ON SECTION.
- SAG ROD AS SHOWN ON PLANS. (1) MINIMUM AT SPANS LESS THAN 18'-0" AND (2) MINIMUM AT SPANS LESS THAN 27'-0". REFERENCE DETAIL 10/S4.1.
- (1) SAG ROD REQUIRED BETWEEN SUPPORT AND CANTILEVER END AS SHOWN. REFERENCE DETAIL 10/S4.1. SAG ROD NOT REQUIRED WHERE CANTILEVER IS LESS THAN 5'-0".
- DO NOT SPLICE PURLINS AT SUPPORT AT CANTILEVER ENDS.
- 16 GAUGE END CAP WITH 2" LEGS EACH END OF STRUCTURE.
- BEAM FLANGE BRACES AS SHOWN ON PLANS. REFERENCE DETAIL 6/S4.1 FOR MORE INFORMATION.
- PV MODULE BY OTHERS. ATTACH PER DETAILS.
- FINISHED GRADE. FINISHED GRADE IS DEFINED AS THE LOWEST ADJACENT FINISHED GRADE WITHIN 5 FEET OF THE STRUCTURAL COLUMN.



3 5 PANEL T - 7 DEG  
NO SCALE



1 5 PANEL TEE - 7 DEG. FRAMING PLAN  
3/16" = 1'-0"



FOUNDATION PLAN  
0' - 0"

BOTTOM OF COLUMN  
-4' - 0"

BOTTOM OF FOOTING  
-10' - 0"

2 5 PANEL 7 DEG TEE SECTION  
1/4" = 1'-0"

## SHEET NOTES

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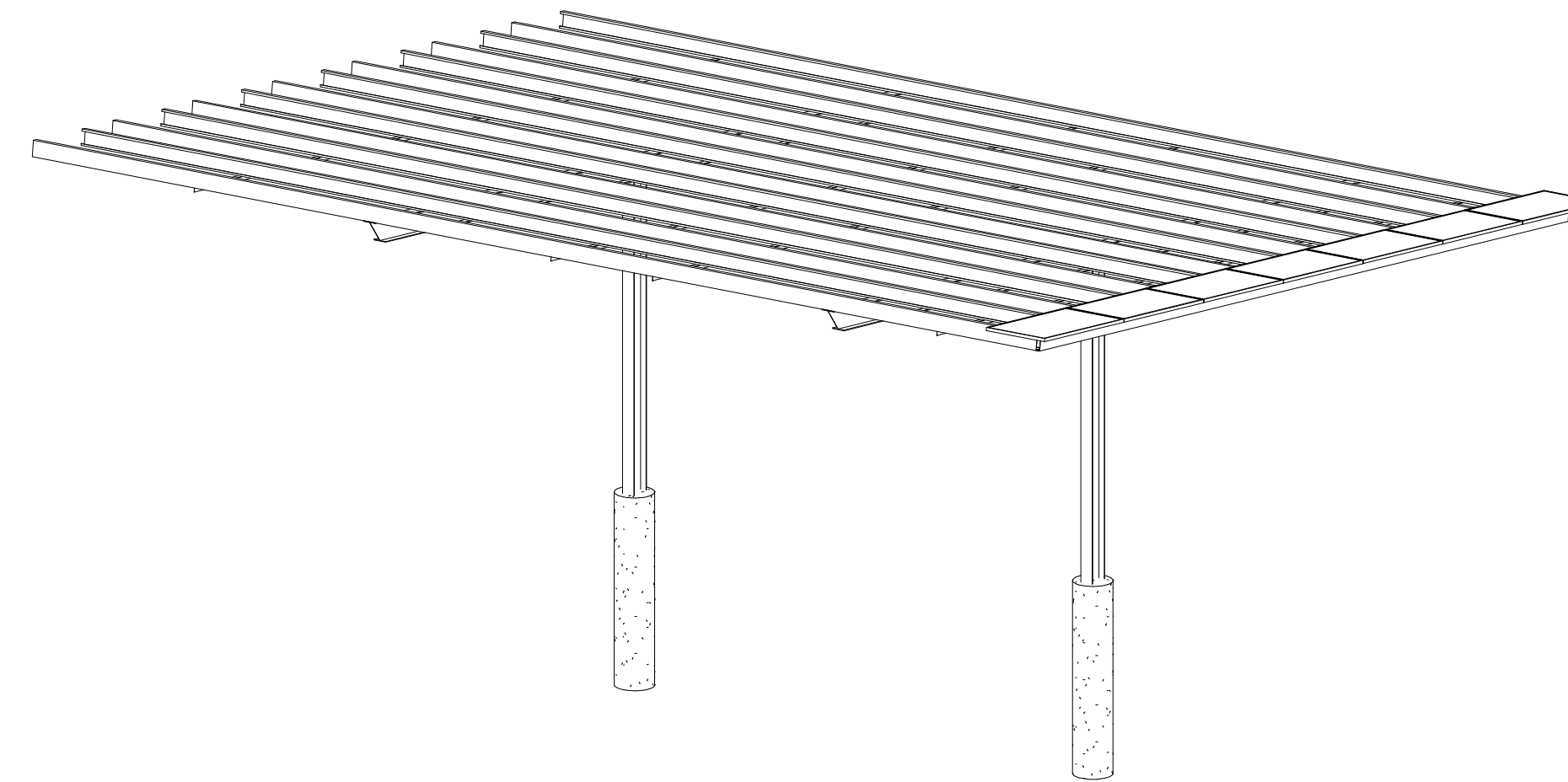
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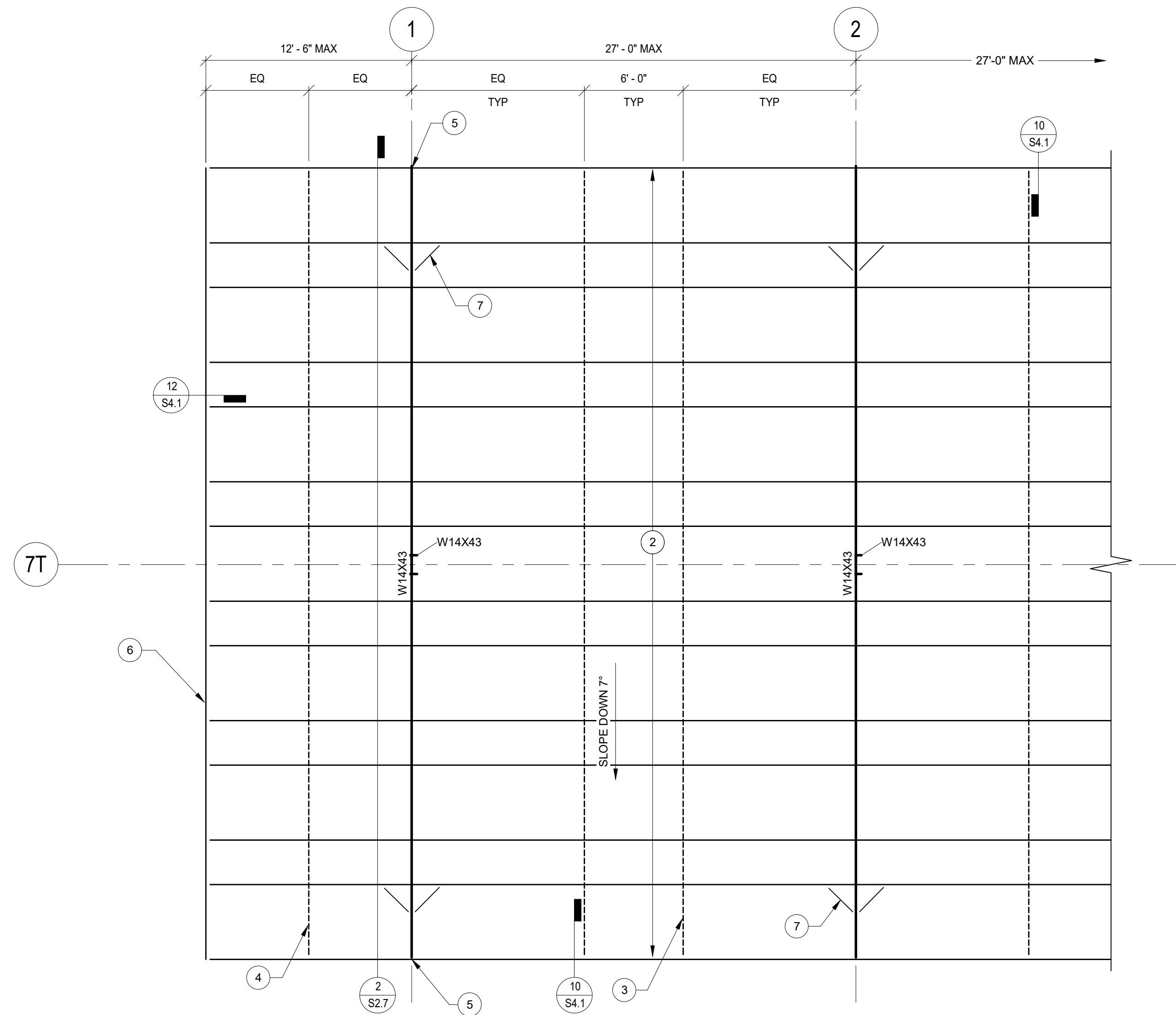
PANEL MODEL	LENGTH	WIDTH
Q.PEAK DUO XL-G10.3	87.24"	41.14"

## KEYNOTES

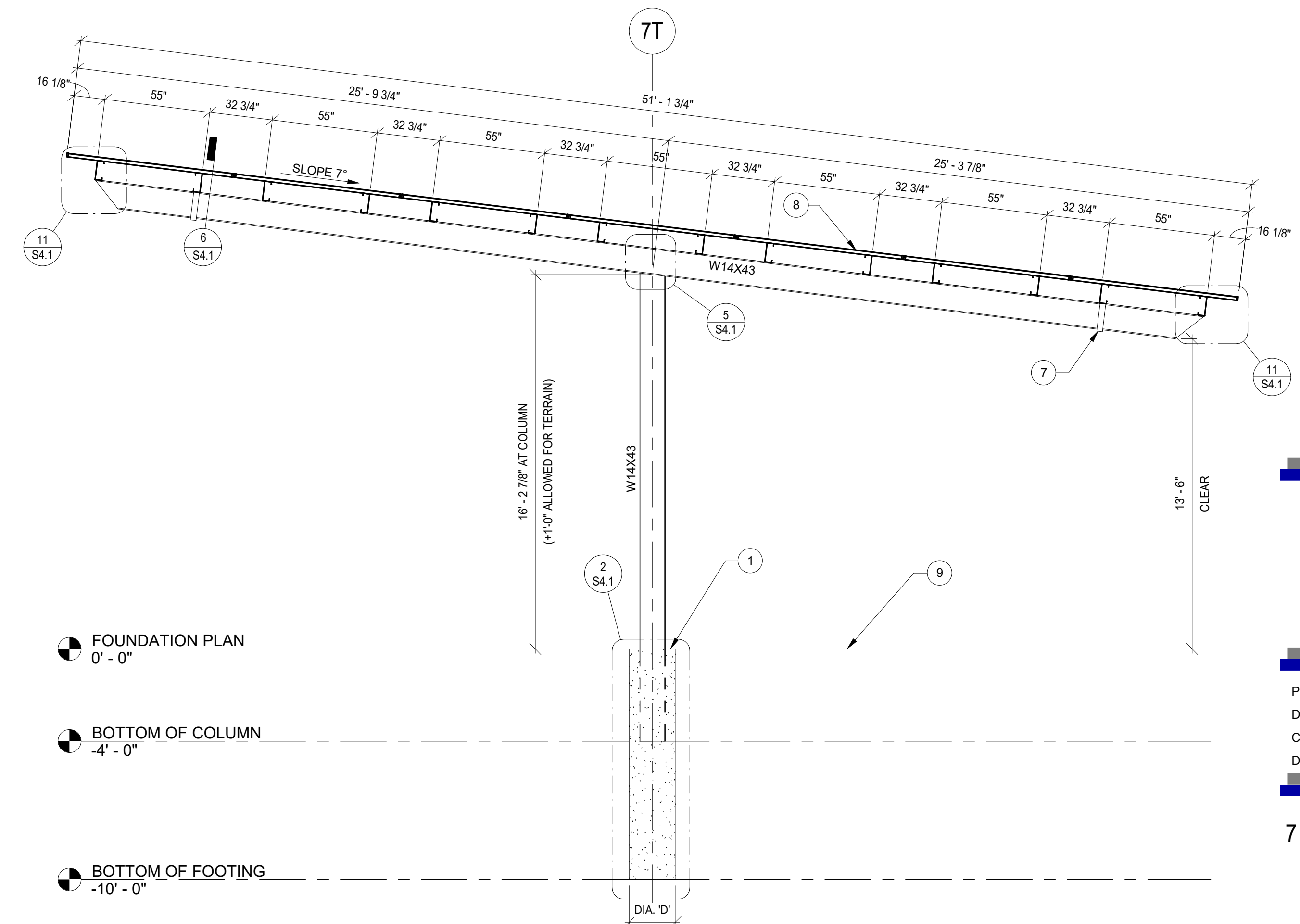
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- 16 GAUGE END CAP WITH 2" LEGS EACH END OF STRUCTURE.
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- PV MODULE BY OTHERS. ATTACH PER DETAILS.
- FINISHED GRADE. FINISHED GRADE IS DEFINED AS THE LOWEST ADJACENT FINISHED GRADE WITHIN 5 FEET OF THE STRUCTURAL COLUMN.



3 7 PANEL T - 7 DEG  
NO SCALE



1 7 PANEL TEE - 7 DEG - FRAMING PLAN  
3/16" = 1'-0"

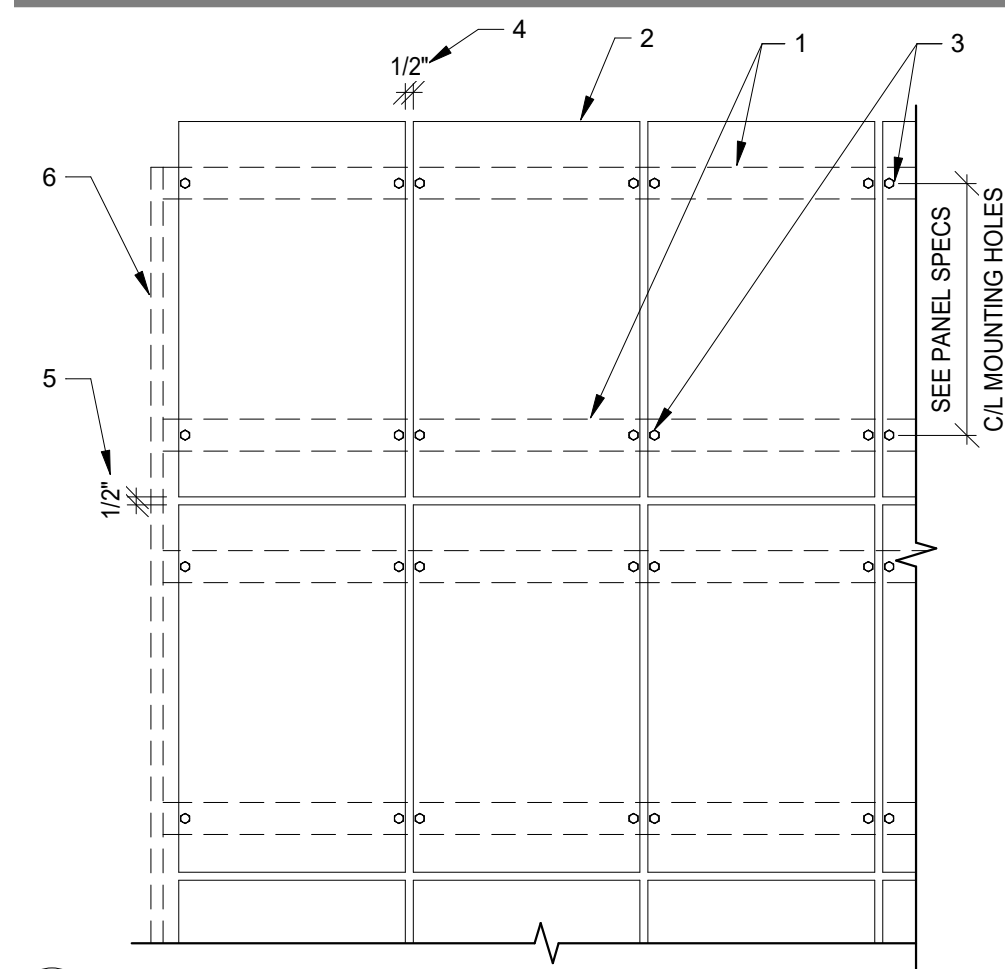


FOUNDATION PLAN  
0' - 0"

BOTTOM OF COLUMN  
-4' - 0"

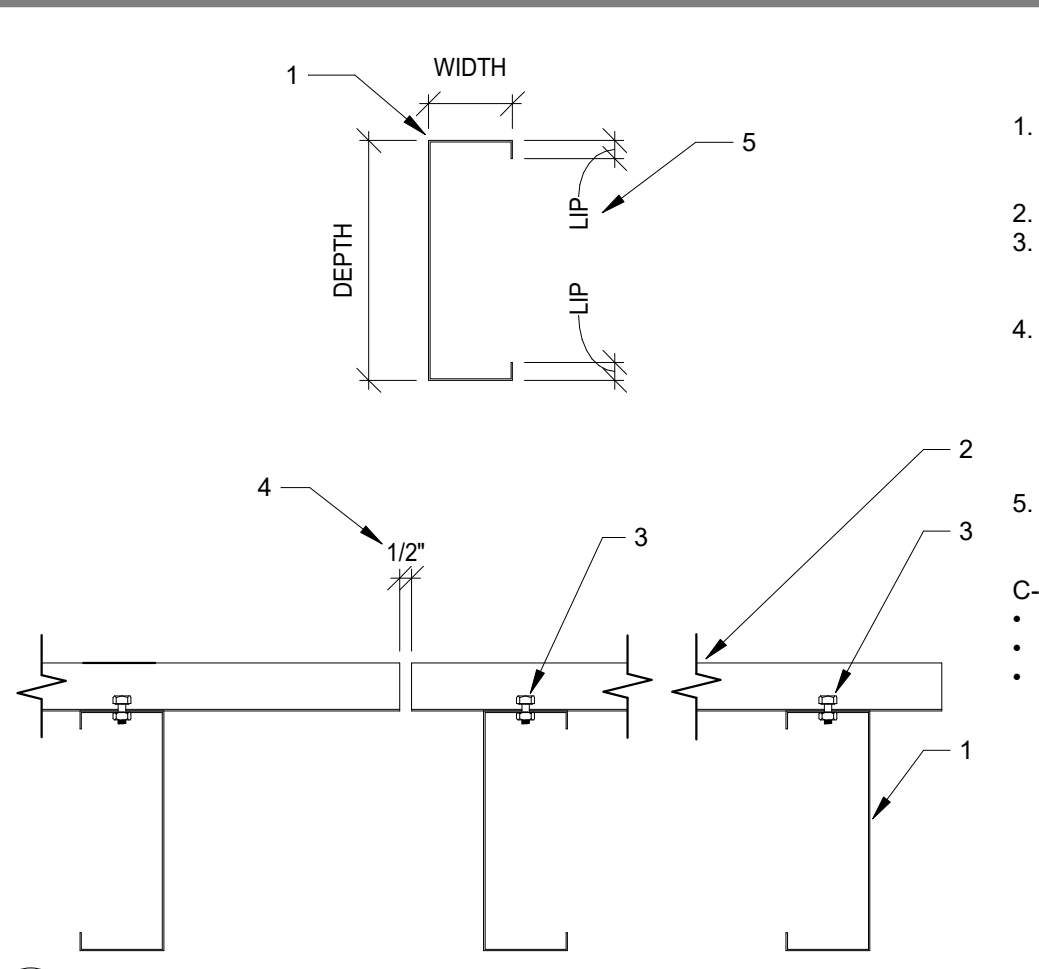
BOTTOM OF FOOTING  
-10' - 0"

2 7 PANEL 7 DEG TEE SECTION  
1/4" = 1'-0"



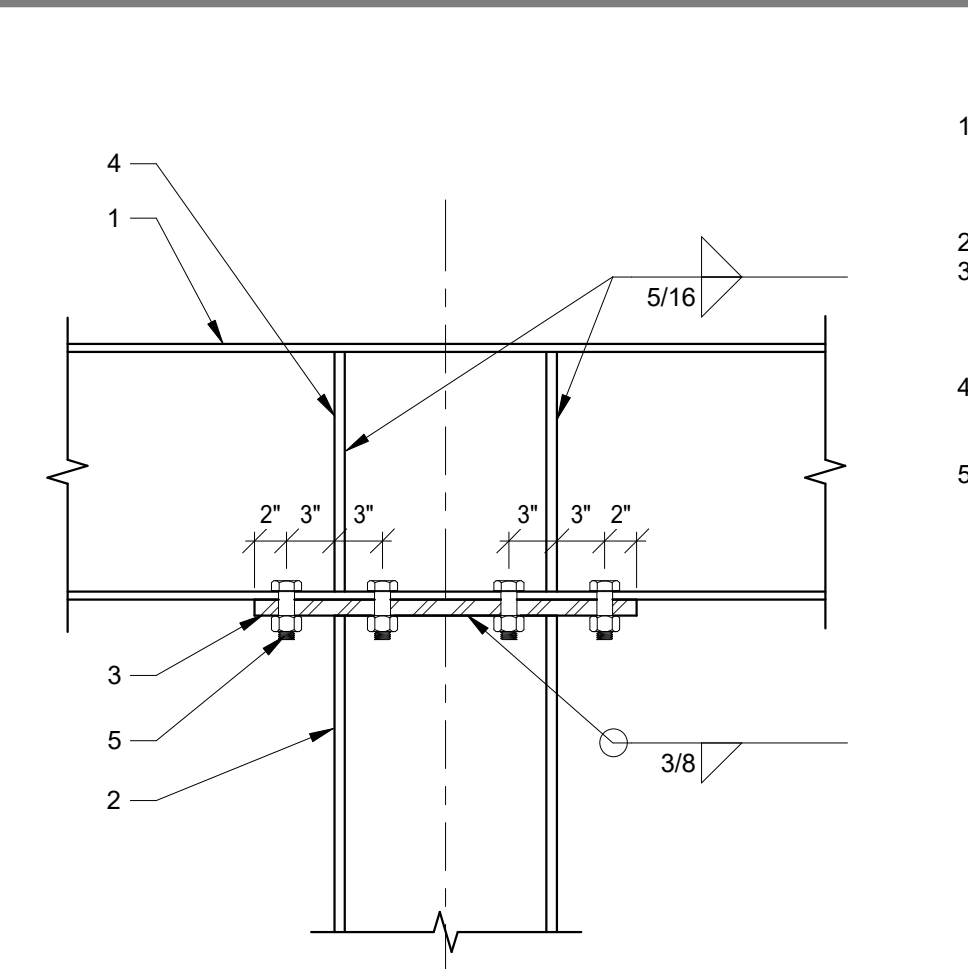
1. STEEL PURLIN, SEE PLANS AND GSN FOR SIZE, GAUGE AND FINISH.
2. SOLAR PANELS BY OTHERS, THRU BOLT BY PANEL MFR. (1/4" OR M6 DIAMETER MINIMUM).
4. SPACING BETWEEN LONG SIDE OF PANELS, TYPICAL. SPACING BETWEEN SHORT SIDE OF PANELS, TYPICAL. CONTRACTOR TO VERIFY PURLIN SPACING WITH PANEL AND BRACKET SPECIFICATIONS PRIOR TO INSTALLATION.
6. END CAP.

13 TYPICAL PANEL ATTACHMENT  
NO SCALE



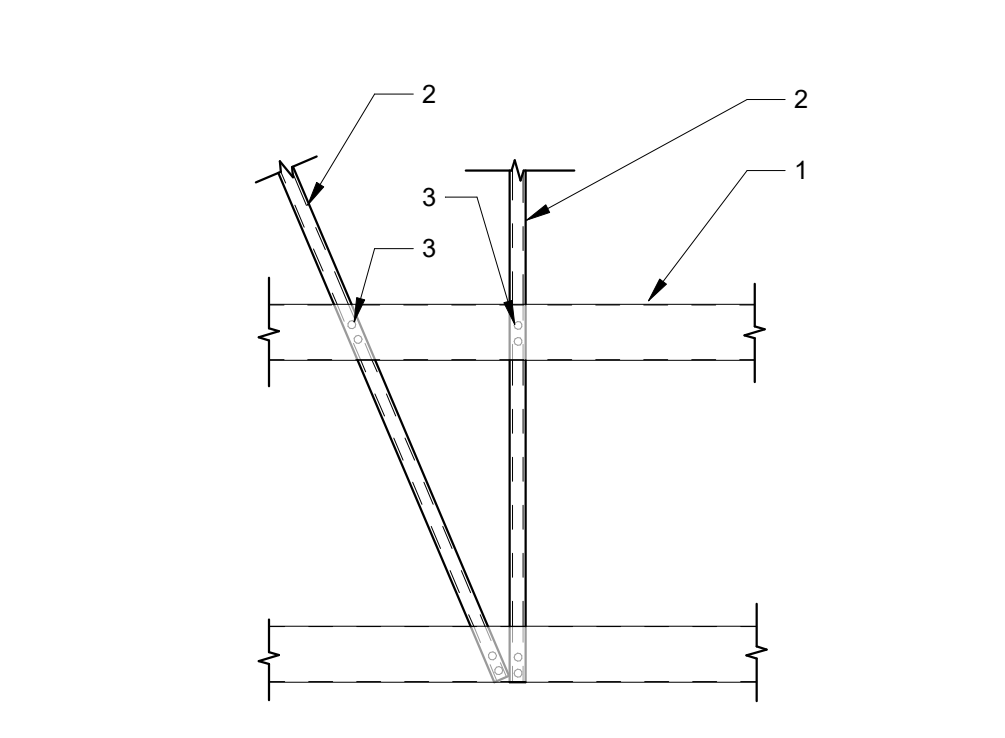
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2. SOLAR PANELS BY OTHERS, THRU BOLT BY PANEL MFR. (1/4" OR M6 DIAMETER MINIMUM).
4. SPACING BETWEEN PANELS, TYPICAL. CONTRACTOR TO VERIFY PURLIN SPACING WITH PANEL AND BRACKET SPECIFICATIONS PRIOR TO INSTALLATION.
5. MINIMUM LIP LENGTH SHALL MEET OR EXCEED THE FOLLOWING:  
C-SHAPES  
• 16 GAUGE - 0.773 INCHES  
• 14 GAUGE - 0.800 INCHES  
• 12 GAUGE - 0.885 INCHES

9 TYPICAL COLD FORMED STEEL PURLIN SECTION  
NO SCALE



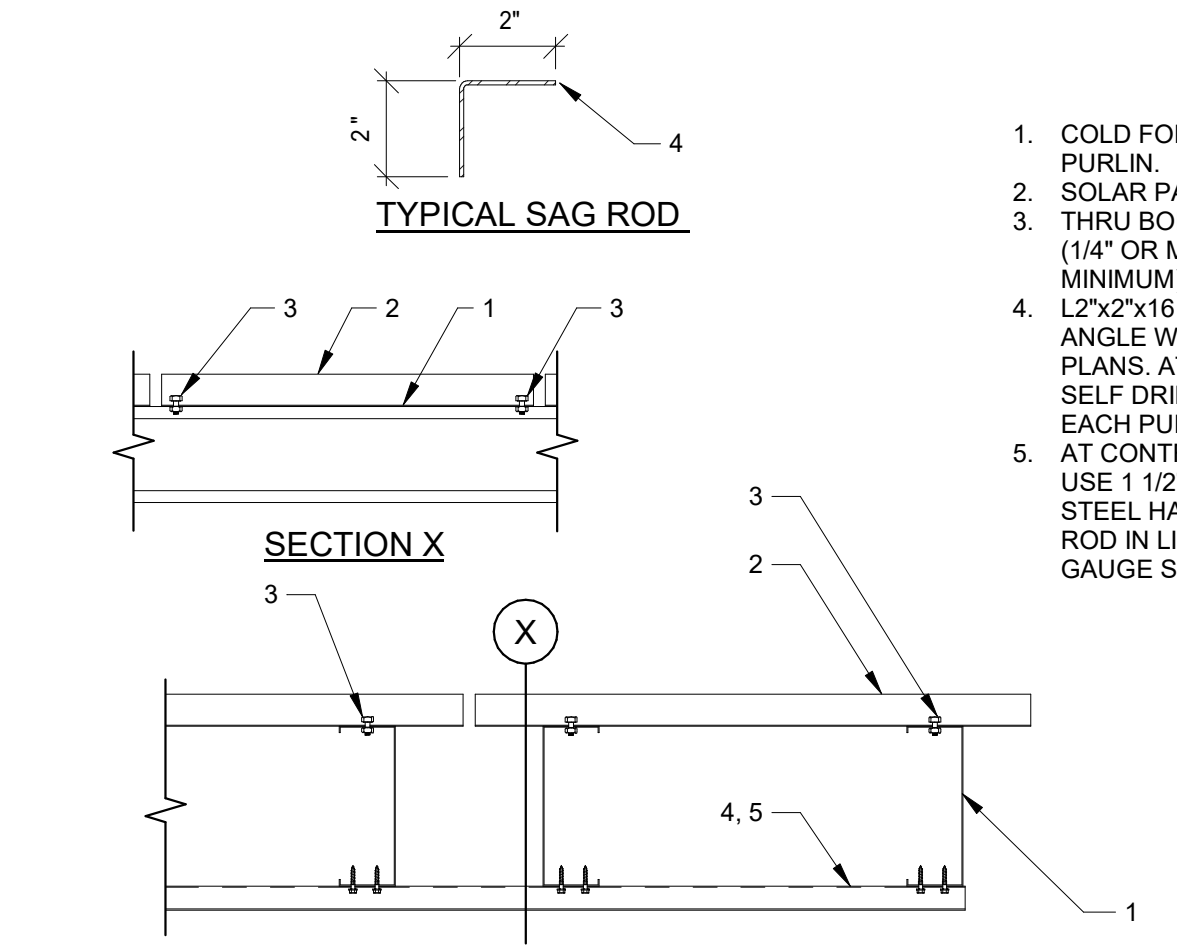
1. STEEL BEAM, FOR TILT DIRECTION SEE SECTIONS AND ELECTRICAL DRAWINGS.
2. STEEL COLUMN.
3. 3/4" x WIDTH COLUMN (OR BEAM, WHICH EVER IS GREATER), Fy = 50 KSI MINIMUM.
4. 1/2" FULL DEPTH WEB STIFFENERS EACH SIDE OF COLUMN, AS SHOWN TYP.
5. (4) 3/4" DIA. ASTM A325 BOLTS EACH SIDE OF BEAM, CENTERED ON BEAM GAUGE (8 TOTAL), TENSION BOLTS SNUG TIGHT.

5 STEEL BEAM TO STEEL COLUMN CONNECTION  
NO SCALE



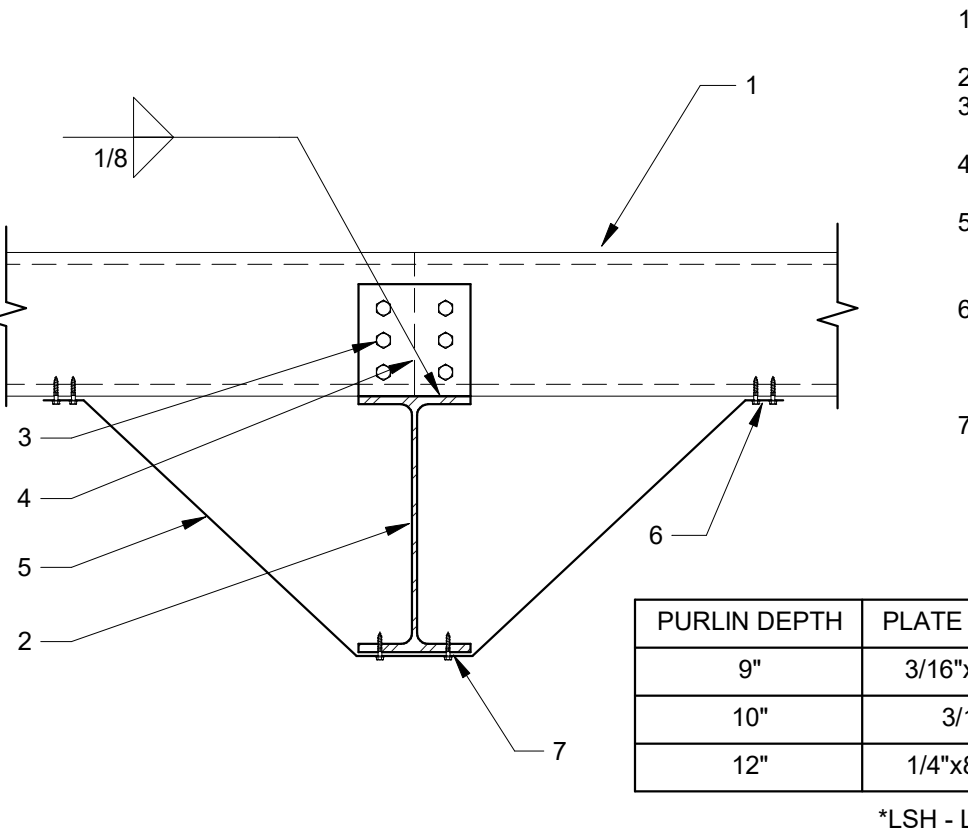
1. COLD FORMED STEEL PURLIN.
2. L2"x2"x16 GAUGE STEEL SAG ROD BRACE BOTTOM OF PURLINS. SEE PLANS FOR LOCATIONS. REFERENCE DETAIL 10/S4.1 FOR SECTION INFORMATION.
3. (2) #12 SELF DRILLING SCREWS AT EACH PURLIN. SCREWS SHALL BE LONG ENOUGH SO THAT AT LEAST 3 EXPOSED THREADS EXIST ON THE PROJECTED END.

14 STEEL SAG ROD AT BOTTOM FLANGE OF STEEL PURLINS  
NO SCALE



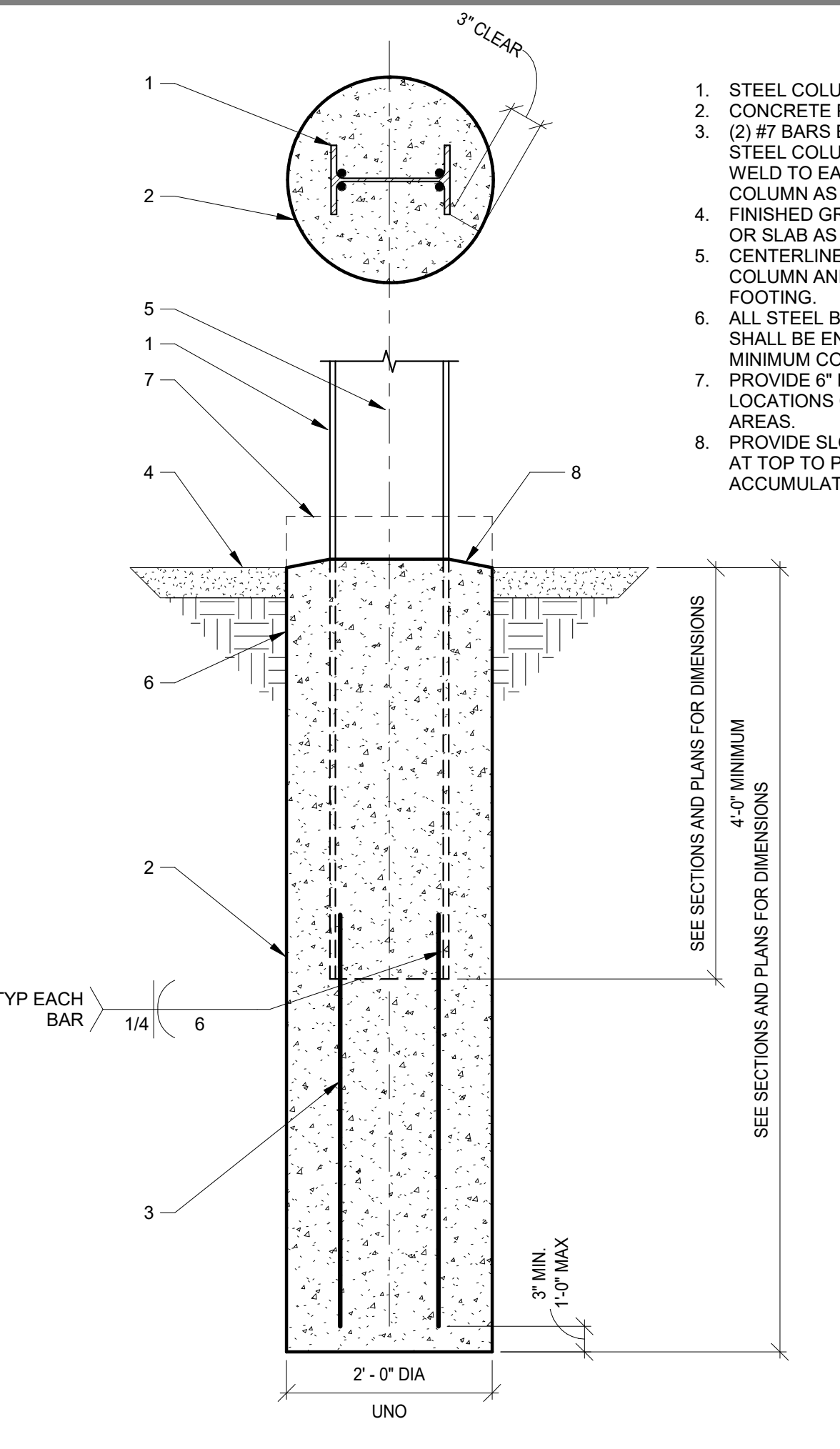
1. COLD FORMED STEEL PURLIN.
2. SOLAR PANELS BY OTHERS, THRU BOLT PER PANEL MFR. (1/4" OR M6 DIAMETER MINIMUM).
4. L2"x2"x16 GAUGE STEEL SAG ANGLE WHERE SHOWN ON PLANS, ATTACH WITH (2) #12 SELF DRILLING SCREWS AT EACH PURLIN.
5. AT CONTRACTORS OPTION, USE 1 1/2"x1 1/4"x18 GAUGE STEEL HAT CHANNEL SAG ROD IN LIEU OF L2"x2"x16 GAUGE STEEL SAG ROD.

10 SAG ROD AT STEEL PURLINS ATTACHMENT  
NO SCALE



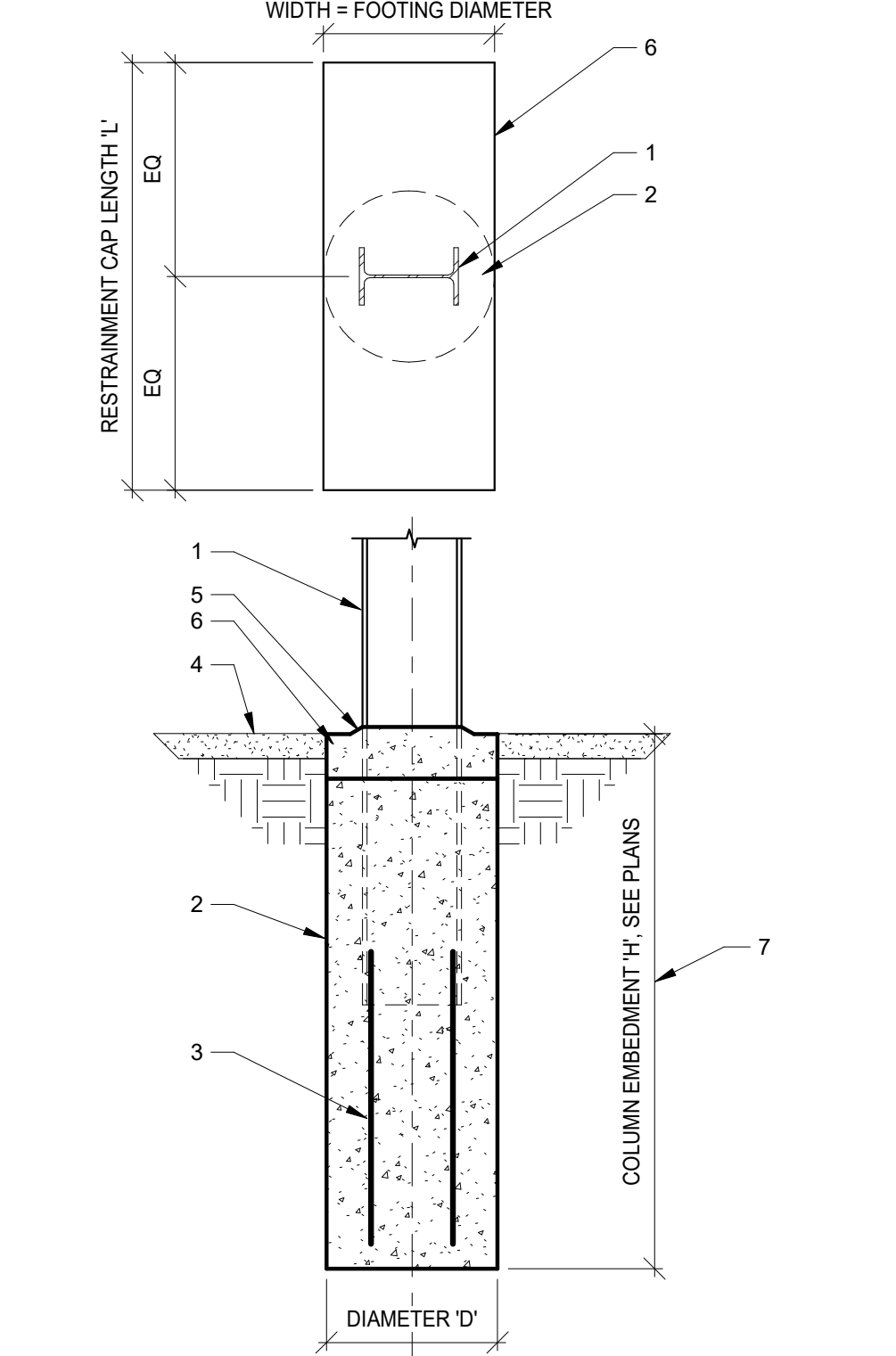
1. STEEL JOIST PURLIN PER PLANS.
2. STEEL BEAM.
3. STEEL PLATE AND SCREWS PER SCHEDULE THIS DETAIL. PURLIN SPLICE AT INTERIOR BEAMS ONLY.
5. 2"x14 GAUGE FLANGE BRACE STRAP WHERE SHOWN ON PLANS.
6. AT CONTRACTORS OPTION, SCREW STRAP TO PURLIN WITH (2) #12 SELF TAPPING SCREWS I/O WELD.
7. PROVIDE (2) HILTI 0.157" DIA. XU POWDER ACTUATED FASTENERS I/O WELD.

6 TYPICAL PURLIN TO STEEL BEAM CONNECTION  
NO SCALE



1. STEEL COLUMN PER PLAN.
2. CONCRETE POLE FOOTING.
3. (2) #7 BARS EACH SIDE OF STEEL COLUMN (4 - TOTAL), WELD TO EACH SIDE OF COLUMN AS INDICATED.
4. FINISHED GRADE, ASPHALT OR SLAB AS OCCURS.
5. CENTERLINE OF STEEL COLUMN AND CONCRETE FOOTING.
6. ALL STEEL BELOW GRADE SHALL BE ENCASED IN 3" MINIMUM CONCRETE.
7. PROVIDE 6" EXPOSED PIER AT LOCATIONS OUTSIDE PAVED AREAS.
8. PROVIDE SLOPPED SURFACE AT TOP TO PREVENT ACCUMULATION OF WATER.

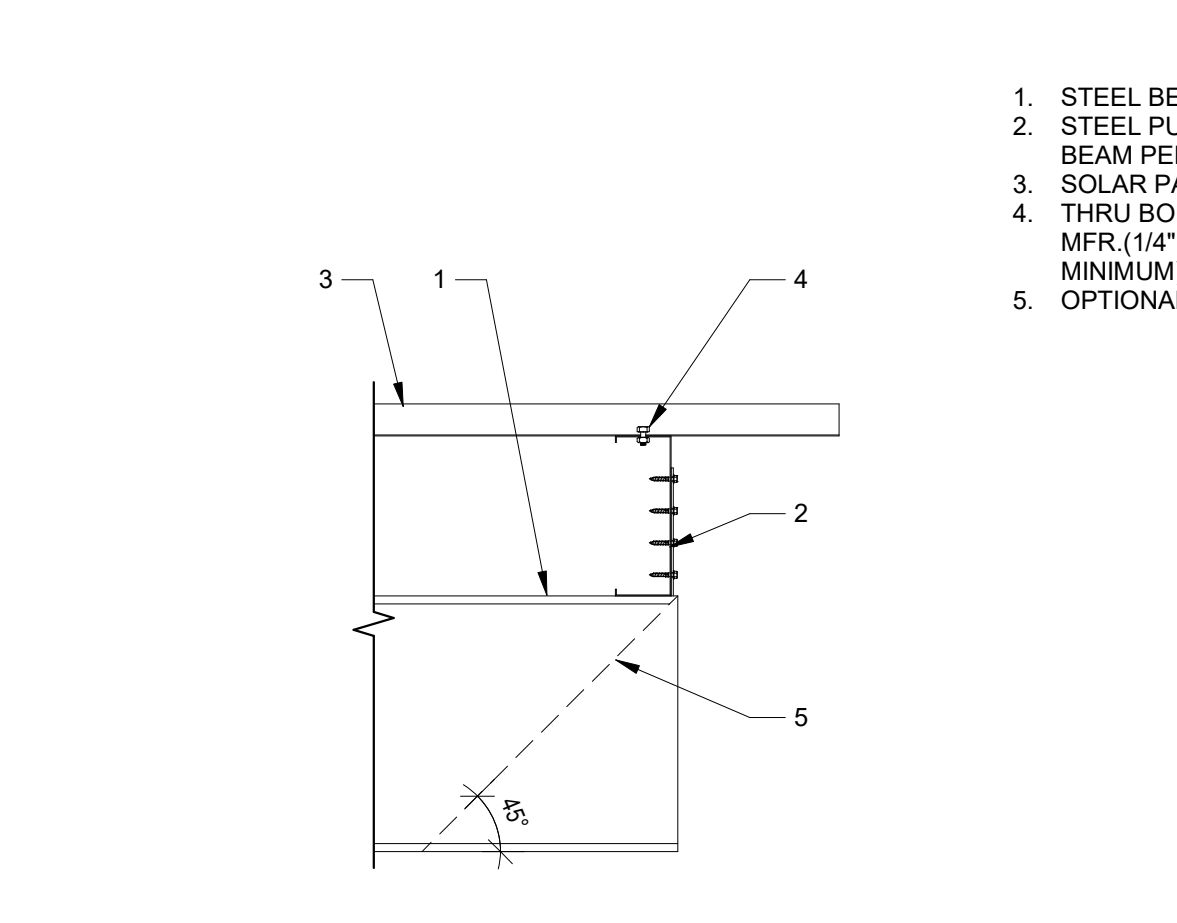
2 STEEL COLUMN AT POLE FOOTING CONNECTION  
NO SCALE



1. STEEL COLUMN, EMBED IN FOOTING PER OTHER DETAILS AND SECTION ON PLANS.
2. CONCRETE POLE FOOTING.
3. REINFORCING PER DETAIL 2/S4.1.
4. ASPHALT, FIELD VERIFY THICKNESS, WHERE CONCRETE SLAB IS PRESENT. RESTRAINT CAP NOT REQUIRED.
5. PROVIDE SLOPPED SURFACE AT TOP TO PREVENT ACCUMULATION OF WATER.
6. 4" THICK CONCRETE RESTRAINT CAP. RESTRAINT CAP NOT REQUIRED WHERE FOOTING IS RESTRAINED AT TOP BY A CONCRETE SLAB ON GRADE.
7. COLUMN EMBEDMENT 'H', REFERENCE SCHEDULE ON PLANS AND STRUCTURE SECTION.

STRUCTURE	FOOTING DIAMETER "D"	RESTRAINED EMBEDMENT "H"	MINIMUM RESTRAINT CAP LENGTH "L"		
			MIN ASPHALT THICKNESS 2"	MIN ASPHALT THICKNESS 2 1/2"	MIN ASPHALT THICKNESS 3"
6 PANEL 'T'	2'-0" DIA.	SEE PLANS	5'-8"	5'-8"	5'-8"

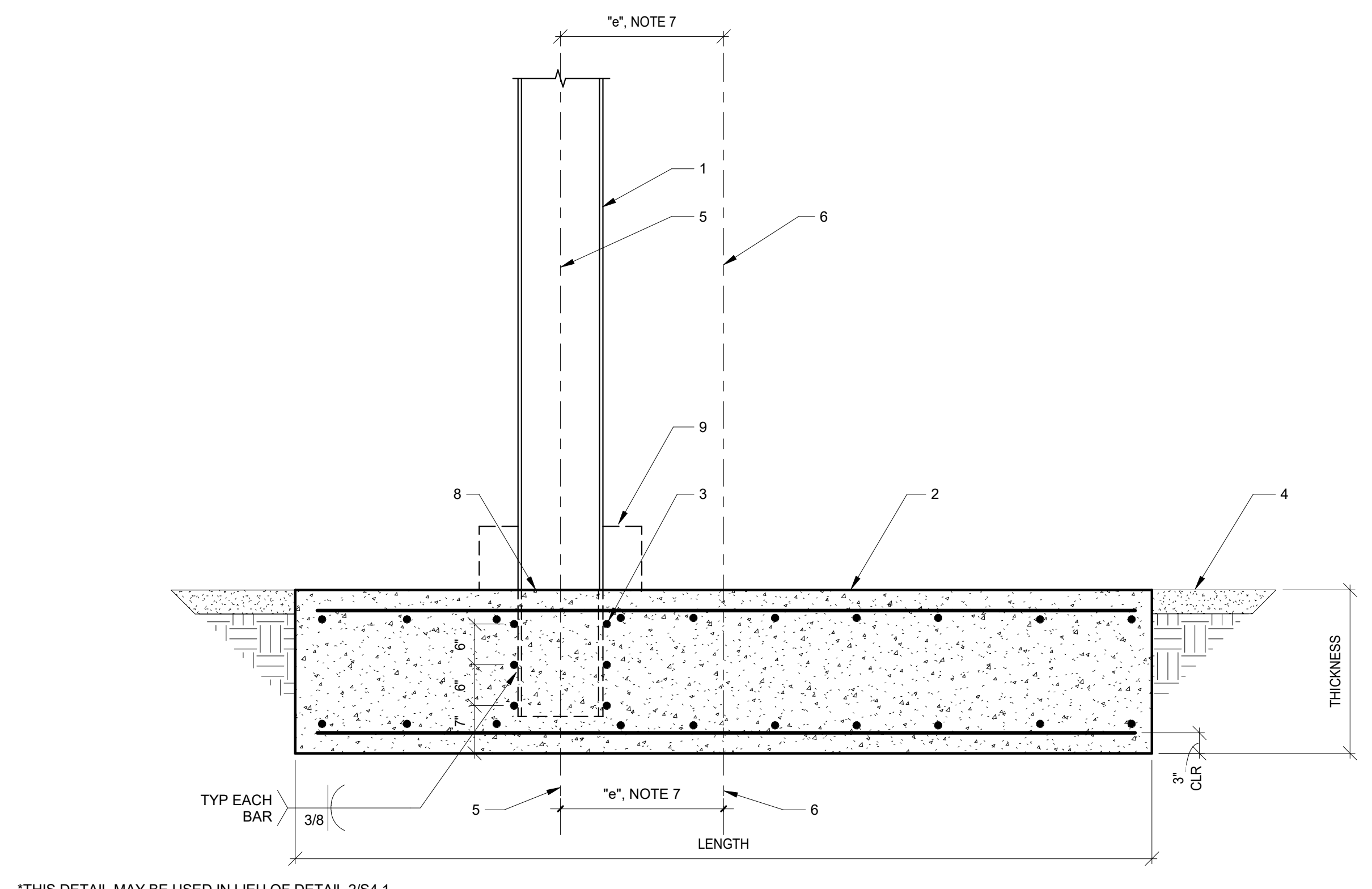
16 STEEL COLUMN AT RESTRAINED POLE FOOTING CONNECTION  
NO SCALE



1. COLD FORMED STEEL PURLIN.
2. END CAP PER PLANS.
3. (1) #12 SELF DRILLING SCREWS TOP AND BOTTOM AT EACH PURLIN (2 - TOTAL EACH PURLIN).

11 TYPICAL PURLIN TO STEEL BEAM CONNECTION  
NO SCALE

STRUCTURE	FOOTING SIZE (LENGTH x WIDTH x THICKNESS)	FOOTING ECCENTRICITY "e"	FOOTING REINFORCING	CONCRETE STRENGTH
6 PANEL 'T'	10'-0"x5'-6"x2'-0"	1'-6"	#6 AT 10" O.C. EACH WAY TOP AND BOTTOM	3,000 PSI



1. STEEL COLUMN PER PLAN.
2. CONCRETE SPREAD FOOTING. SEE SCHEDULE THIS DETAIL FOR SIZE AND REINFORCING.
3. (3) #9 x 5'-0" BARS AT 6" O.C. VERTICAL WELDED TO EACH SIDE OF COLUMN (6 TOTAL PER COLUMN).
4. FINISHED GRADE OR SLAB AS OCCURS.
5. CENTERLINE OF STEEL COLUMN AND CONCRETE FOOTING WIDTH.
6. CENTERLINE OF FOOTING LENGTH.
7. OFFSET COLUMN PER FOOTING SCHEDULE, WHERE FOOTING ECCENTRICITY EXISTS, LONGER FOOTING TOE SHALL OCCUR ON THE SIDE OF THE LARGEST CANTILEVER.
8. PROVIDE SLOPPED SURFACE AT COLUMN TO PREVENT ACCUMULATION OF WATER AGAINST STEEL.
9. PROVIDE 6" EXPOSED PIER AT LOCATIONS OUTSIDE PAVED AREAS.

8 STEEL COLUMN AT CONCRETE SPREAD FOOTING  
NO SCALE

NOT FOR CONSTRUCTION

No.	Description	Date

PROJECT NUMBER: 22489  
DRAWN BY: KS  
CHECKED BY: JE  
DATE: 10/26/2022

SHEET NAME  
SOLAR CANOPY  
DETAILS