



DEVELOPMENT APPLICATION

City of Rockwall
Planning and Zoning Department
385 S. Goliad Street
Rockwall, Texas 75087

STAFF USE ONLY

PLANNING & ZONING CASE NO.

22024-025

NOTE: THE APPLICATION IS NOT CONSIDERED ACCEPTED BY THE CITY UNTIL THE PLANNING DIRECTOR AND CITY ENGINEER HAVE SIGNED BELOW.

DIRECTOR OF PLANNING:

CITY ENGINEER:

PLEASE CHECK THE APPROPRIATE BOX BELOW TO INDICATE THE TYPE OF DEVELOPMENT REQUEST [SELECT ONLY ONE BOX]:

PLATTING APPLICATION FEES:

- MASTER PLAT (\$100.00 + \$15.00 ACRE) ¹
- PRELIMINARY PLAT (\$200.00 + \$15.00 ACRE) ¹
- FINAL PLAT (\$300.00 + \$20.00 ACRE) ¹
- REPLAT (\$300.00 + \$20.00 ACRE) ¹
- AMENDING OR MINOR PLAT (\$150.00)
- PLAT REINSTATEMENT REQUEST (\$100.00)

SITE PLAN APPLICATION FEES:

- SITE PLAN (\$250.00 + \$20.00 ACRE) ¹
- AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING PLAN (\$100.00)

ZONING APPLICATION FEES:

- ZONING CHANGE (\$200.00 + \$15.00 ACRE) ¹
- SPECIFIC USE PERMIT (\$200.00 + \$15.00 ACRE) ^{1 & 2}
- PD DEVELOPMENT PLANS (\$200.00 + \$15.00 ACRE) ¹

OTHER APPLICATION FEES:

- TREE REMOVAL (\$75.00)
- VARIANCE REQUEST/SPECIAL EXCEPTIONS (\$100.00) ²

NOTES:

¹ IN DETERMINING THE FEE, PLEASE USE THE EXACT ACREAGE WHEN MULTIPLYING BY THE PER ACRE AMOUNT. FOR REQUESTS ON LESS THAN ONE ACRE, ROUND UP TO ONE (1) ACRE.

² A \$1,000.00 FEE WILL BE ADDED TO THE APPLICATION FEE FOR ANY REQUEST THAT INVOLVES CONSTRUCTION WITHOUT OR NOT IN COMPLIANCE TO AN APPROVED BUILDING PERMIT.

PROPERTY INFORMATION [PLEASE PRINT]

ADDRESS 1290 I-30 Rockwall TX 75087

SUBDIVISION

LOT

BLOCK

GENERAL LOCATION Townsend Dr. & I-30 Frontage rd

ZONING, SITE PLAN AND PLATTING INFORMATION [PLEASE PRINT]

CURRENT ZONING LI

CURRENT USE

CTE Entertainment LP

PROPOSED ZONING LI

PROPOSED USE

Solar

ACREAGE

LOTS [CURRENT]

LOTS [PROPOSED]

- SITE PLANS AND PLATS:** BY CHECKING THIS BOX YOU ACKNOWLEDGE THAT DUE TO THE PASSAGE OF HB3167 THE CITY NO LONGER HAS FLEXIBILITY WITH REGARD TO ITS APPROVAL PROCESS, AND FAILURE TO ADDRESS ANY OF STAFF'S COMMENTS BY THE DATE PROVIDED ON THE DEVELOPMENT CALENDAR WILL RESULT IN THE DENIAL OF YOUR CASE.

OWNER/APPLICANT/AGENT INFORMATION [PLEASE PRINT/CHECK THE PRIMARY CONTACT/ORIGINAL SIGNATURES ARE REQUIRED]

OWNER

APPLICANT

CONTACT PERSON Justin Ripp

CONTACT PERSON Teshia Brown

ADDRESS 1290 E I-30

ADDRESS 4801 Freidrich LN. Ste 109

CITY, STATE & ZIP Rockwall, TX 75087

CITY, STATE & ZIP Austin, TX 78744

PHONE 972-839-8196

PHONE 940-594-9718

E-MAIL justin@elevatedvg.com

E-MAIL teshiabrown@freedomssolarpower.com

NOTARY VERIFICATION [REQUIRED]

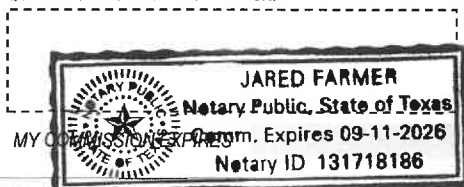
BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Justin Ripp [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

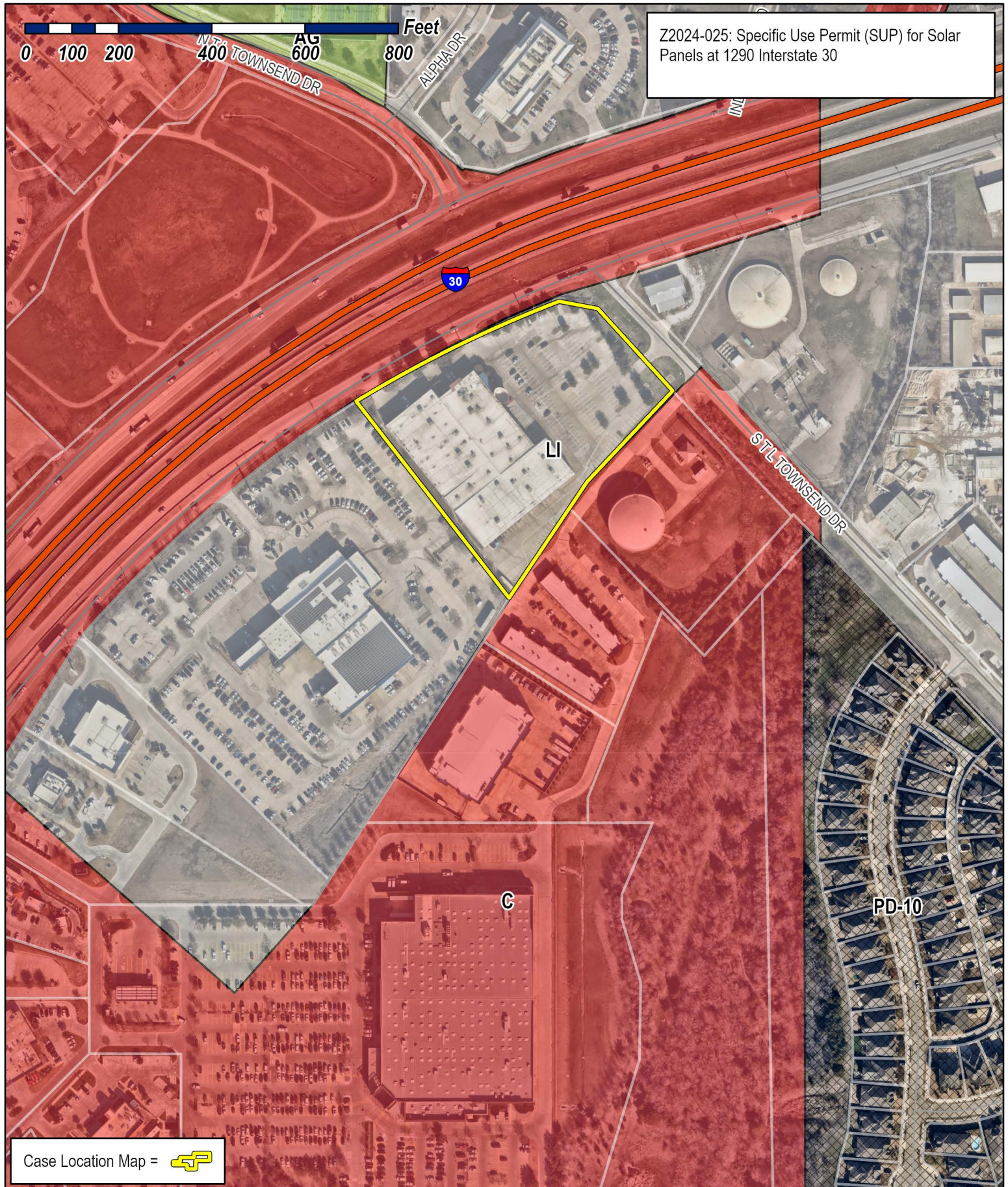
"I HEREBY CERTIFY THAT I AM THE OWNER FOR THE PURPOSE OF THIS APPLICATION; ALL INFORMATION SUBMITTED HEREIN IS TRUE AND CORRECT; AND THE APPLICATION FEE OF \$ 215 TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE 16 DAY OF May 2024 BY SIGNING THIS APPLICATION, I AGREE THAT THE CITY OF ROCKWALL (I.E. "CITY") IS AUTHORIZED AND PERMITTED TO PROVIDE INFORMATION CONTAINED WITHIN THIS APPLICATION TO THE PUBLIC. THE CITY IS ALSO AUTHORIZED AND PERMITTED TO REPRODUCE ANY COPYRIGHTED INFORMATION SUBMITTED IN CONJUNCTION WITH THIS APPLICATION, IF SUCH REPRODUCTION IS ASSOCIATED OR IN RESPONSE TO A REQUEST FOR PUBLIC INFORMATION."

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 16 DAY OF May 2024


OWNER'S SIGNATURE

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS





Z2024-025: Specific Use Permit (SUP) for Solar Panels at 1290 Interstate 30

Case Location Map = 



City of Rockwall

Planning & Zoning Department
 385 S. Goliad Street
 Rockwall, Texas 75087
 (P): (972) 771-7745
 (W): www.rockwall.com

The City of Rockwall GIS maps are continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantees. The City of Rockwall makes no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. Use of the information is the sole responsibility of the user.

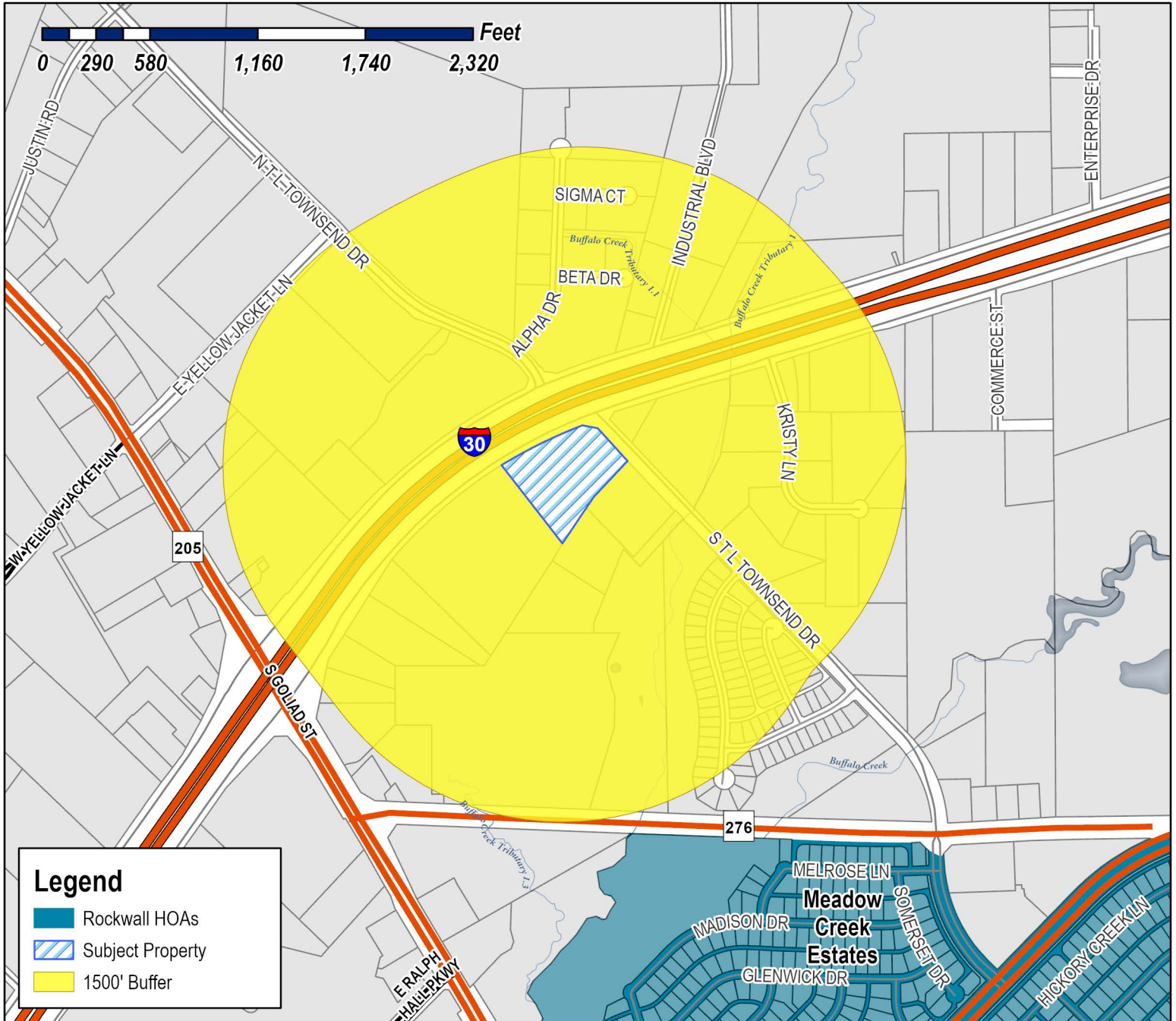




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Case Number: Z2024-025
Case Name: SUP for Solar Panels
Case Type: Zoning
Zoning: Light Industrial (LI) District
Case Address: 1290 Interstate 30



Date Saved: 5/17/2024

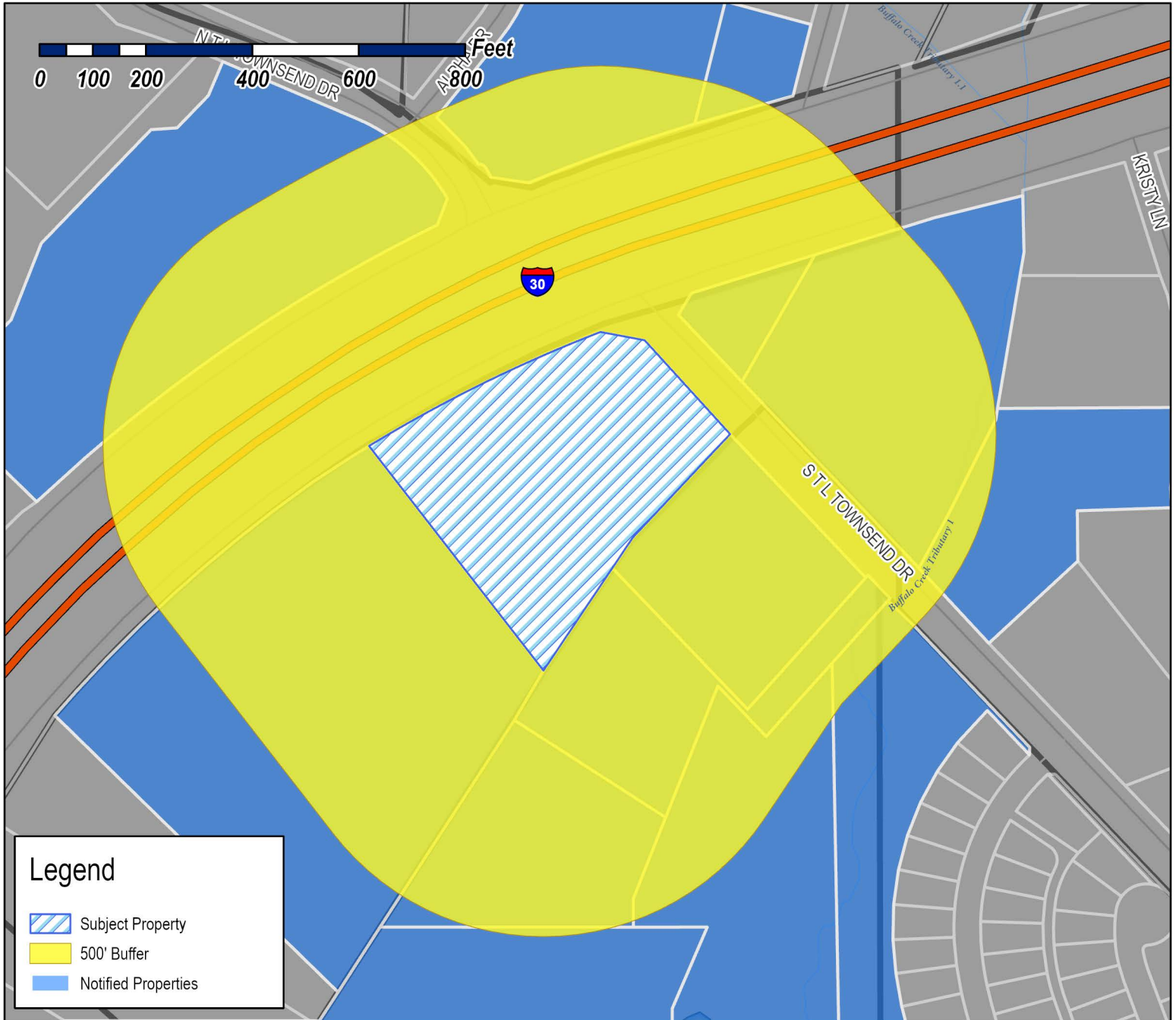
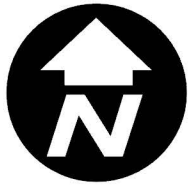
For Questions on this Case Call (972) 771-7745



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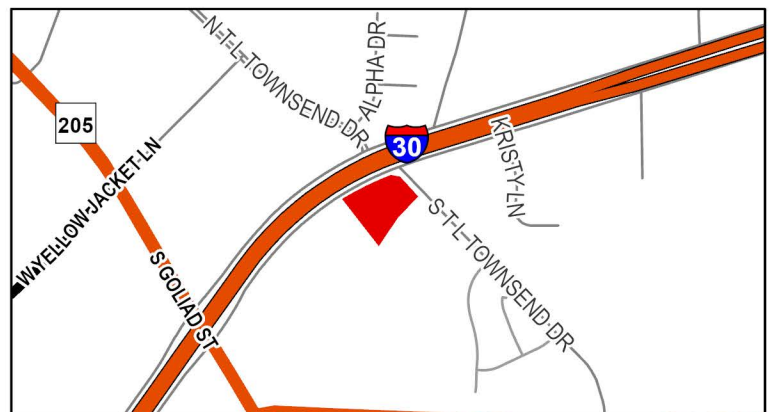
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Case Type: Zoning
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Case Address: 1290 Interstate 30

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RESIDENT
S T L TOWNSEND DR
ROCKWALL, TX 75087

RESIDENT
T L TOWNSEND
ROCKWALL, TX 75087

RESIDENT
TOWNSEND DR
ROCKWALL, TX 75087

MCCALLUM V LLC
1 SOAPBERRY LN
ROCKWALL, TX 75087

ROCKWALL COUNTY
1101 RIDGE RD
STE 105
ROCKWALL, TX 75087

RESIDENT
1225 HWY 276
ROCKWALL, TX 75087

RESIDENT
1245 HWY276 DR
ROCKWALL, TX 75087

JACKSON AUTOMOTIVE REAL ESTATE INV LLC
1250 E INTERSTATE 30
ROCKWALL, TX 75087

RESIDENT
1290 I30
ROCKWALL, TX 75087

RESIDENT
1301 I30
ROCKWALL, TX 75087

RESIDENT
1401 E I30
ROCKWALL, TX 75087

SARO PARTNERS LLC
1450 T L TOWNSEND
ROCKWALL, TX 75032

RESIDENT
1460 S TOWNSEND DR
ROCKWALL, TX 75087

RESIDENT
1480 S T L TOWNSEND DR
ROCKWALL, TX 75087

MOTA SAMUEL
1557 TROWBRIDGE CIR
ROCKWALL, TX 75032

MOTA SAMUEL
1557 TROWBRIDGE CIR
ROCKWALL, TX 75032

PRITCHARD DONNA CULLINS &
1610 SHORES BLVD
ROCKWALL, TX 75087

HTA ROCKWALL MEDICAL CENTER LLC
16435 NORTH SCOTTSDALE ROAD SUITE 320
SCOTTSDALE, AZ 85254

RESIDENT
1975 ALPHA RD
ROCKWALL, TX 75087

CITY OF HEATH
200 LAURENCE DRIVE
HEATH, TX 75032

RESIDENT
2010 KRISTY LN
ROCKWALL, TX 75087

CTE PHASE I LP
2266 LAFAYETTE LNDG
ROCKWALL, TX 75032

REDI MIX LLC
331 N MAIN STREET
EULESS, TX 76039

MSC ROCKWALL LLC
725 PARK CENTER DRIVE
MATTHEWS, NC 28105

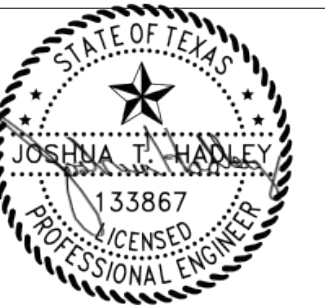
COSTCO WHOLESALE CORP
999 LAKE DR
ISSAQUAH, WA 98027



4801 FRIEDRICH LN. SUITE 100 AUSTIN, TX 78744
 P: 512.640.3864
 freedom.solarpower.com

SYSTEM INFORMATION

DC SYSTEM SIZE: 539.32kW
 AC SYSTEM SIZE: 400.00kW
 MODULES:
 (1112) HANWHA Q CELLS
 Q-PEAK DUO XL-G10.3/BFG
 485W
 INVERTERS:
 (2) SOLAREEDGE TECHNOLOGIES
 SE120KUS (480/277V, 3PH)
 (2) SOLAREEDGE TECHNOLOGIES
 SE80K-US (480/277V, 3PH)
 OPTIMIZER:
 (558) SOLAREEDGE P1101
 POWER OPTIMIZER
 WIND SPEED: 105MPH
 SNOW LOAD: 5PSF
 MINIMUM TEMPERATURE: -8°C
 MAXIMUM TEMPERATURE: 37°C



JH PROFESSIONAL DESIGNS
 TX FIRM: F-26320
 SEALED: 05/16/2024

SOLAR PV PROJECT
 FOR
CTE ENTERTAINMENT, LP COM-41783
 1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
 32.912126, -96.445302

REVISION

DATE	DESCRIPTION	REV
03/22/2024	PERMIT PLAN	A
05/16/2024	EQUIPMENT UPDATE	B

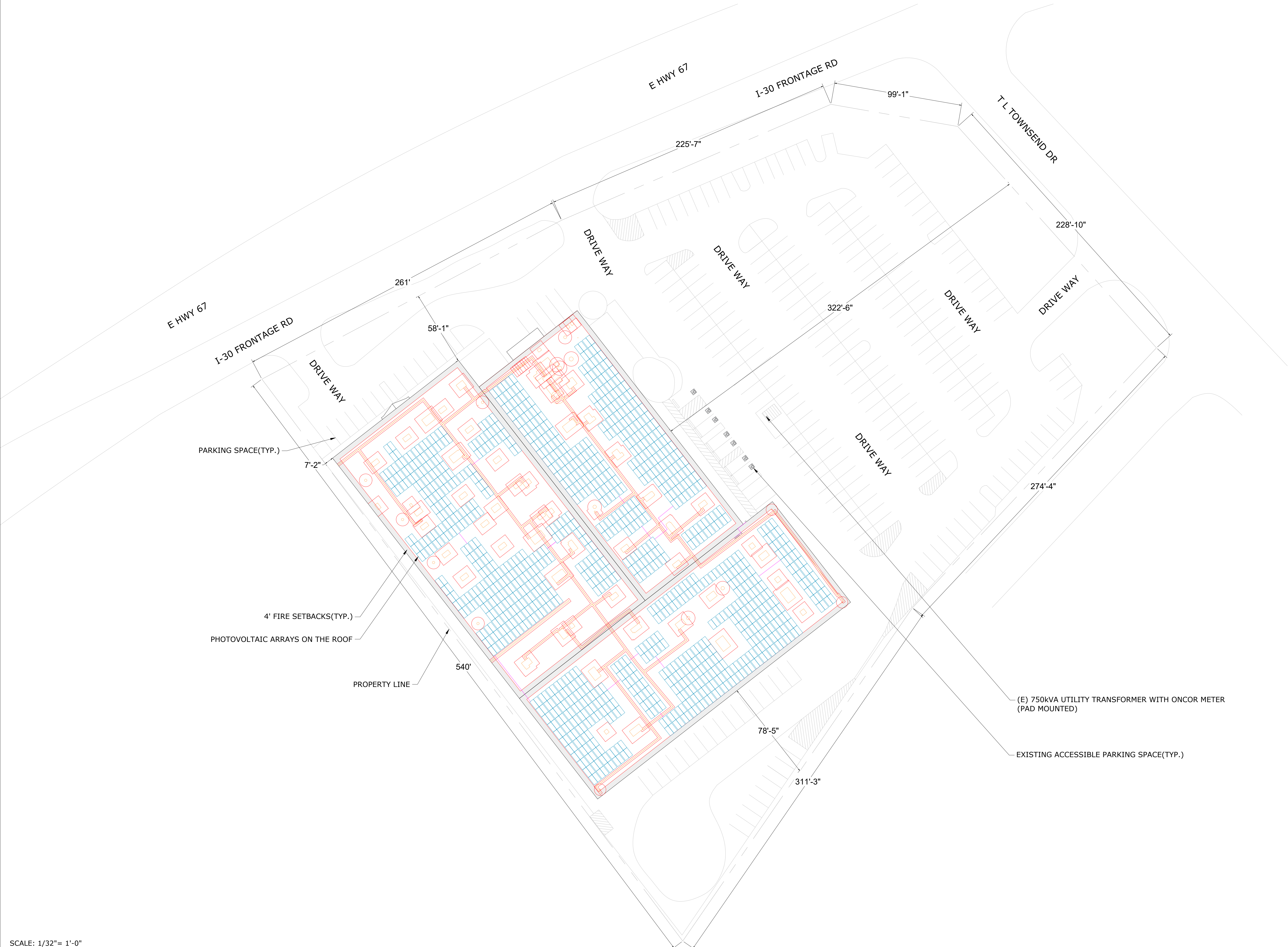
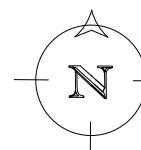
PROJECT INFORMATION

NAME: CTE ENTERTAINMENT, LP
 COM-41783
 ADDRESS: 1290 I-30 FRONTAGE RD,
 ROCKWALL, TX 75032
 ESI ID: 10443720006363900
 32.912126, -96.445302
 APN: 33829
 AHJ: TX-CITY OF ROCKWALL
 UTILITY: ONCOR
 PRN NUMBER: FMS-CU-2023-1688

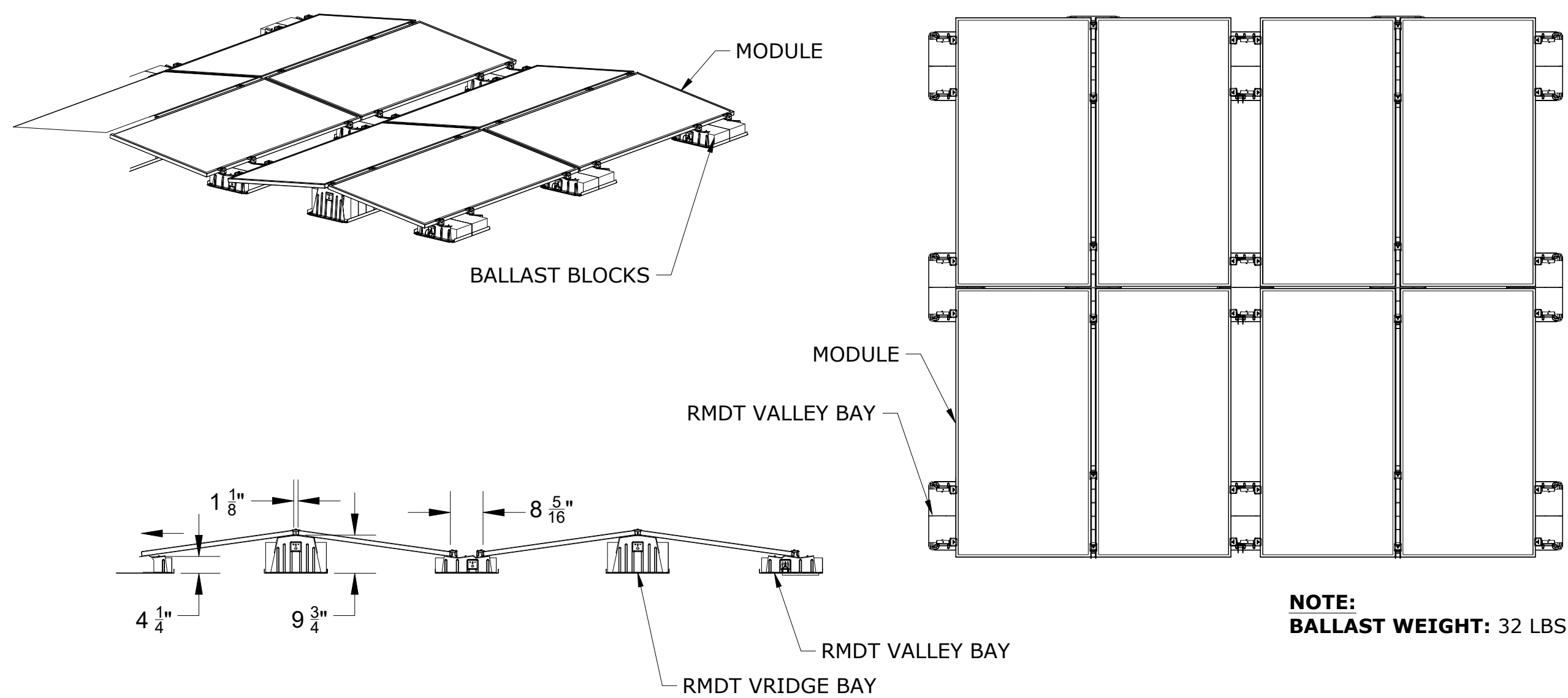


SITE PLAN

DRAFTED BY/QC'ED BY:
 NAVANEETHAN.C/MANISH A
 SCALE: AS NOTED
 DATE: 05/16/2024
 REV: B
 A-01



ATTACHMENT DETAILS - UNIRAC RMDT



BILL OF MATERIALS

PART NUMBER	DESCRIPTION	QTY	UNIT
Q.PEAK DUO XL-G10.3/BFG 485W	MODULE	1112	QTY.
N/A	BALLAST BLOCK	1658	QTY.
310802	RMDT VALLEY BAY	813	QTY.
310826	RMDT MID CLAMP 32-35MM	1324	QTY.
310820	RMDT END CLAMP 30-40MM	2648	QTY.
310860	KIT 1/4-20 CLIP ON NUT SS 18-8	3972	QTY.
310801	RMDT RIDGE BAY	662	QTY.
008115M	MLPE TIGER CLIP	1112	QTY.

GENERAL STRUCTURAL NOTES

1. ALL EQUIPMENTS SHALL BE INSTALLED PER MANUFACTURER INSTALLATION AND OPERATIONS MANUAL REQUIREMENTS.
 2. PRIOR TO COMMENCEMENT OF WORK OR FABRICATION OF COMPONENTS, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS OF THE EXISTING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE FIELD-VERIFIED CONDITIONS, DIMENSIONS, AND ELEVATION AND THOSE INDICATED ON THE DRAWINGS.
 3. ALL THE CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF 2021 EDITION OF THE BUILDING CODE.

SOLAR RACK COMPONENTS:

1. FOLLOW MANUFACTURER'S INSTALLATION FOR INSTALLATION OF THE SOLAR COMPONENTS, INCLUDING MODULE CLAMPS, L-FEET, BRACKETS MECHANICAL ATTACHMENTS, AND HARDWARE.

LEGEND:

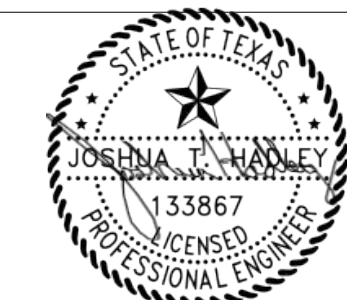
- 1 STANDARD CORNER BAY WITH CMU BLOCK COUNT
- 2 SUPPLEMENTAL BAY WITH CMU BLOCK COUNT



4801 FRIEDRICH LN. SUITE 100 AUSTIN, TX 78744
 P: 512.640.3864
 freedom@solarpower.com

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DC SYSTEM SIZE: 539.32kW
 AC SYSTEM SIZE: 400.00kW
 MODULES:
 (1112) HANWHA Q CELLS
 Q.PEAK DUO XL-G10.3/BFG 485W
 INVERTERS:
 (2) SOLAREGE TECHNOLOGIES SE120KUS (480/277V, 3PH)
 (2) SOLAREGE TECHNOLOGIES SE80K-US (480/277V, 3PH)
 OPTIMIZER:
 (558) SOLAREGE P1101 POWER OPTIMIZER
 WIND SPEED: 105MPH
 SNOW LOAD: 5PSF
 MINIMUM TEMPERATURE: -8°C
 MAXIMUM TEMPERATURE: 37°C



JH PROFESSIONAL DESIGNS
 TX FIRM: F-26320
 SEALED: 05/16/2024

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 32.912126, -96.445302
 APN: 33829

AHJ: TX-CITY OF ROCKWALL

UTILITY: ONCOR

PRN NUMBER: FMS-CU-2023-1688



STRUCTURAL PLAN

DRAFTED BY/QC'ED BY:
 NAVANEETHAN.C/MANISH A

SCALE: AS NOTED

DATE: 05/16/2024

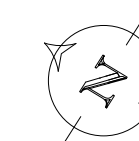
REV: B

S-01

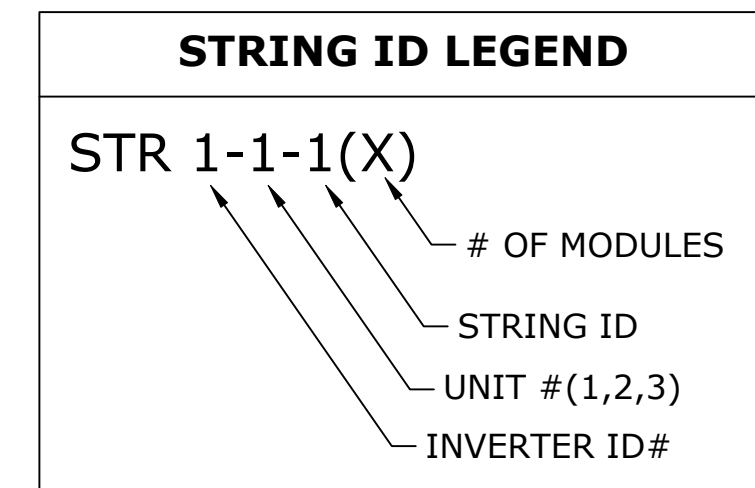
SCALE: NTS

SITE INFORMATION - WIND SPEED: 105 MPH, EXPOSURE: B AND SNOW LOAD: 5 PSF

SR. NO	AZIMUTH	MODULE TILT	NO. OF MODULES	ARRAY AREA (SQ. FT.)	ROOF TYPE	ATTACHMENT
ARRAY MP-01	52°&232°	8°	120	3372	TPO	UNIRAC RMDT
ARRAY MP-02	52°&232°	8°	222	6211	TPO	UNIRAC RMDT
ARRAY MP-03	52°&232°	8°	12	341	TPO	UNIRAC RMDT
ARRAY MP-04	52°&232°	8°	44	1265	TPO	UNIRAC RMDT
ARRAY MP-05	52°&232°	8°	20	562	TPO	UNIRAC RMDT
ARRAY MP-06	52°&232°	8°	42	1201	TPO	UNIRAC RMDT
ARRAY MP-07	52°&232°	8°	122	3449	TPO	UNIRAC RMDT
ARRAY MP-08	52°&232°	8°	26	732	TPO	UNIRAC RMDT
ARRAY MP-09	52°&232°	8°	24	686	TPO	UNIRAC RMDT
ARRAY MP-10	52°&232°	8°	124	3500	TPO	UNIRAC RMDT
ARRAY MP-11	52°&232°	8°	148	4155	TPO	UNIRAC RMDT
ARRAY MP-12	52°&232°	8°	156	4402	TPO	UNIRAC RMDT
ARRAY MP-13	52°&232°	8°	24	677	TPO	UNIRAC RMDT
ARRAY MP-14	52°&232°	8°	28	805	TPO	UNIRAC RMDT



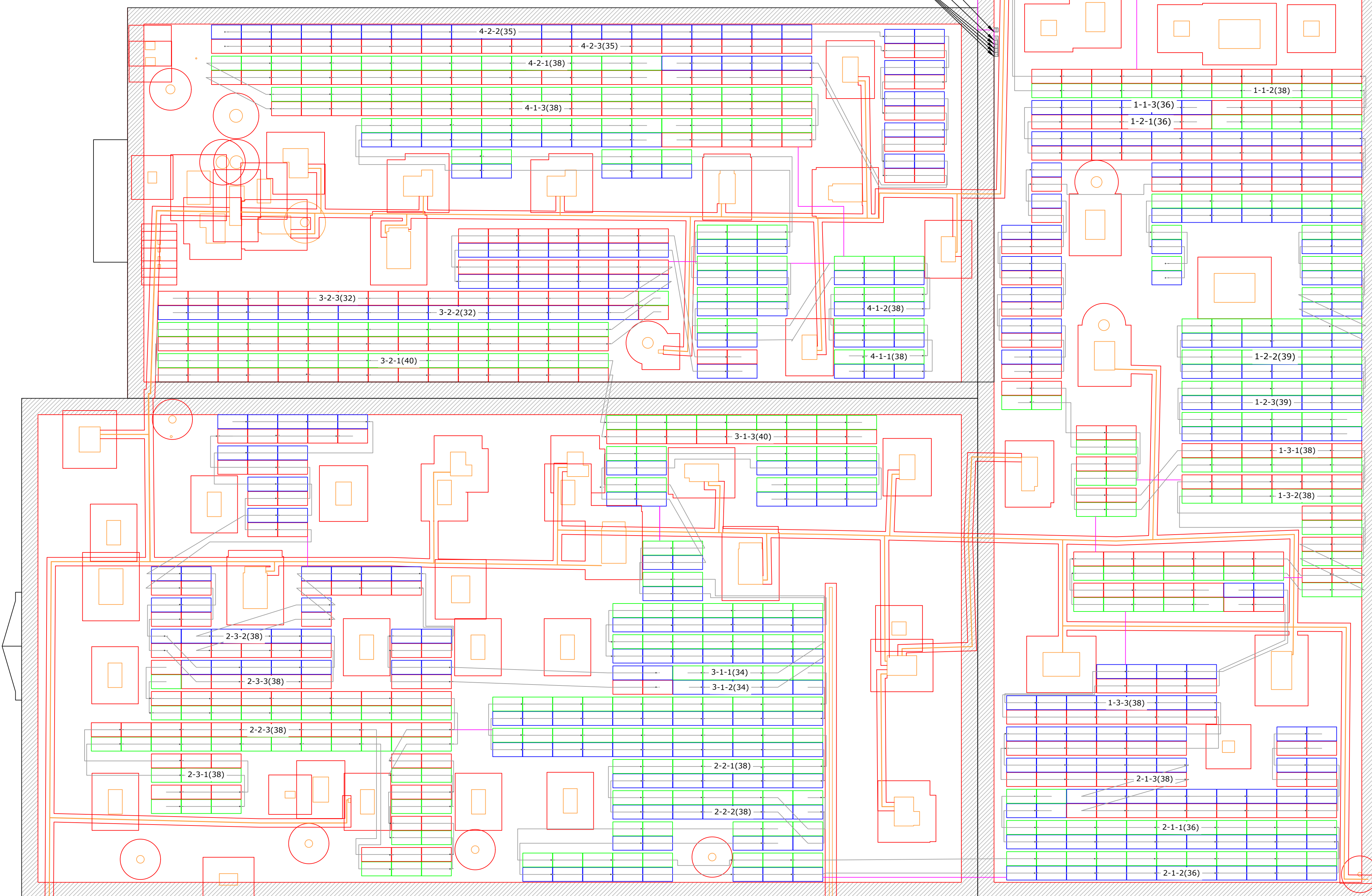
STRINGING DIAGRAM:



(E) 750kVA UTILITY TRANSFORMER WITH ONCOR METER (PAD MOUNTED)

(N) 800A FUSED VISIBLE LOCKABLE LABELED DISCONNECT SWITCH (EXTERIOR WALL OF THE BUILDING)
 (E) MAIN DISTRIBUTION PANEL (INSIDE THE ELECTRICAL ROOM)
 (N) AC ACCUMULATION PANEL (INSIDE THE ELECTRICAL ROOM)
 (N) PV INVERTER 01 TO 04 (INSIDE THE ELECTRICAL ROOM)

STRING STARTS HERE



SCALE: 1"=15'-0"

WIRING AND WIRING METHODS:

1. EXPOSED PV SOLAR MODULE WIRING AND PV SOURCE CIRCUITS TO BE UV RESISTANT 2,000V PV WIRE, 90° C, AND RATED FOR WET CONDITIONS.
2. ALL EXPOSED CABLES, SUCH AS MODULE LEADS SHALL BE SECURED IN A NEAT WORKMAN LIKE MANNER TO PREVENT CHAFFING, SWINGING, AND EXCEEDING MINIMUM BEND RADIUS WITH PROPER MECHANICAL SUNLIGHT RESISTANT MEANS AND ROUTED TO AVOID DIRECT EXPOSURE TO SUNLIGHT AT ALL TIMES.
3. ALL FIELD WIRING THAT IS NOT COLOR CODED SHALL BE TAGGED AT BOTH ENDS WITH PERMANENT WIRE MARKERS TO IDENTIFY POLARITY AND GROUND.
4. FLEXIBLE METAL CONDUIT IS SUITABLE FOR INSTALLATION IN DRY LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE THAN 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS OR CONDUIT FITTING) AND NO MORE THAN 48 INCHES APART.
5. LIQUID TIGHT FLEXIBLE METAL AND NON-METALLIC CONDUIT IS SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE THAN 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS, OR CONDUIT FITTING) AND NO MORE THAN 36 INCHES APART.
6. PVC CONDUIT AND FITTINGS SHALL NOT BE USED ON ROOFTOP CONDITIONS OR EXPOSED TO DIRECT SUNLIGHT. WHEN USED IN ACCEPTABLE LOCATION CONDUIT SHALL BE SCHEDULE 80 UV RESISTANT UNLESS NOTED OTHERWISE.
7. FUSES AND WIRES SUBJECT TO TEMPERATURES CONDITIONS GREATER THAN 100°F OR TRANSFORMER INRUSH CURRENT SHALL BE SIZED ACCORDINGLY.
8. THE PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OF THIS PROPOSED SOLAR SYSTEM SHALL NOT BE CONTAINED IN THE SAME RACEWAY CABLE TRAY, CABLE, OUTLET BOX, JUNCTION BOX, OR SIMILAR FITTING AS FEEDERS OR BRANCH CIRCUITS OF OTHER SYSTEMS UNLESS THE CONDUCTORS OF THE DIFFERENT SYSTEMS ARE SEPARATED BY A PARTITION OR ARE CONNECTED TOGETHER.
9. ALL TERMINATIONS SHALL HAVE ANTI-OXIDANT COMPOUND AND BE TORQUED PER DEVICE LISTING, OR MANUFACTURER'S RECOMMENDATIONS.
10. SPLIT BOLTS / SPLICES / CONNECTORS ARE PERMITTED ON THE AC CONDUCTORS AND SHALL BE INSULATED WITH APPROVED MEANS. SPLICES ON THE DC CONDUCTORS IS NOT PERMITTED IN ANY LOCATION.
11. NO PVC CONDUIT ALLOWED ON ROOF, UNLESS OPEN ENDED WIRE MANAGEMENT <10'.

INVERTER 1, 120kW			INVERTER 2, 120kW		
UNIT 01			UNIT 01		
STRING	MOD. QTY.	OPT. QTY.	STRING	MOD. QTY.	OPT. QTY.
1-1-1	38	19	2-1-1	36	18
1-1-2	38	19	2-1-2	36	18
1-1-3	36	18	2-1-3	38	19
UNIT 02			UNIT 02		
1-2-1	36	18	2-2-1	38	19
1-2-2	39	20	2-2-2	38	19
1-2-3	39	20	2-2-3	38	19
UNIT 03			UNIT 03		
1-3-1	38	19	2-3-1	38	19
1-3-2	38	19	2-3-2	38	19
1-3-3	38	19	2-3-3	38	19

INVERTER 3, 80kW			INVERTER 4, 80kW		
UNIT 01			UNIT 01		
STRING	MOD. QTY.	OPT. QTY.	STRING	MOD. QTY.	OPT. QTY.
3-1-1	34	17	4-1-1	38	19
3-1-2	34	17	4-1-2	38	19
3-1-3	40	20	4-1-3	38	19
UNIT 02			UNIT 02		
3-2-1	40	20	4-2-1	38	19
3-2-2	32	16	4-2-2	35	18
3-2-3	32	16	4-2-3	35	18
GRAND TOTAL			1112	558	



4801 FRIEDRICH LN. SUITE 100 AUSTIN, TX 78744
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 freedompower.com

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 Q.PEAK DUO XL-G10.3/BFG
 485W
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 SE120KUS (480/277V, 3PH)
 (2) SOLAREEDGE TECHNOLOGIES
 SE80K-US (480/277V, 3PH)
 OPTIMIZER:
 (558) SOLAREEDGE P1101
 POWER OPTIMIZER
 WIND SPEED: 105MPH
 SNOW LOAD: 5PSF
 MINIMUM TEMPERATURE: -8°C
 MAXIMUM TEMPERATURE: 37°C



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 TX FIRM: F-26320
 SEALED: 05/16/2024

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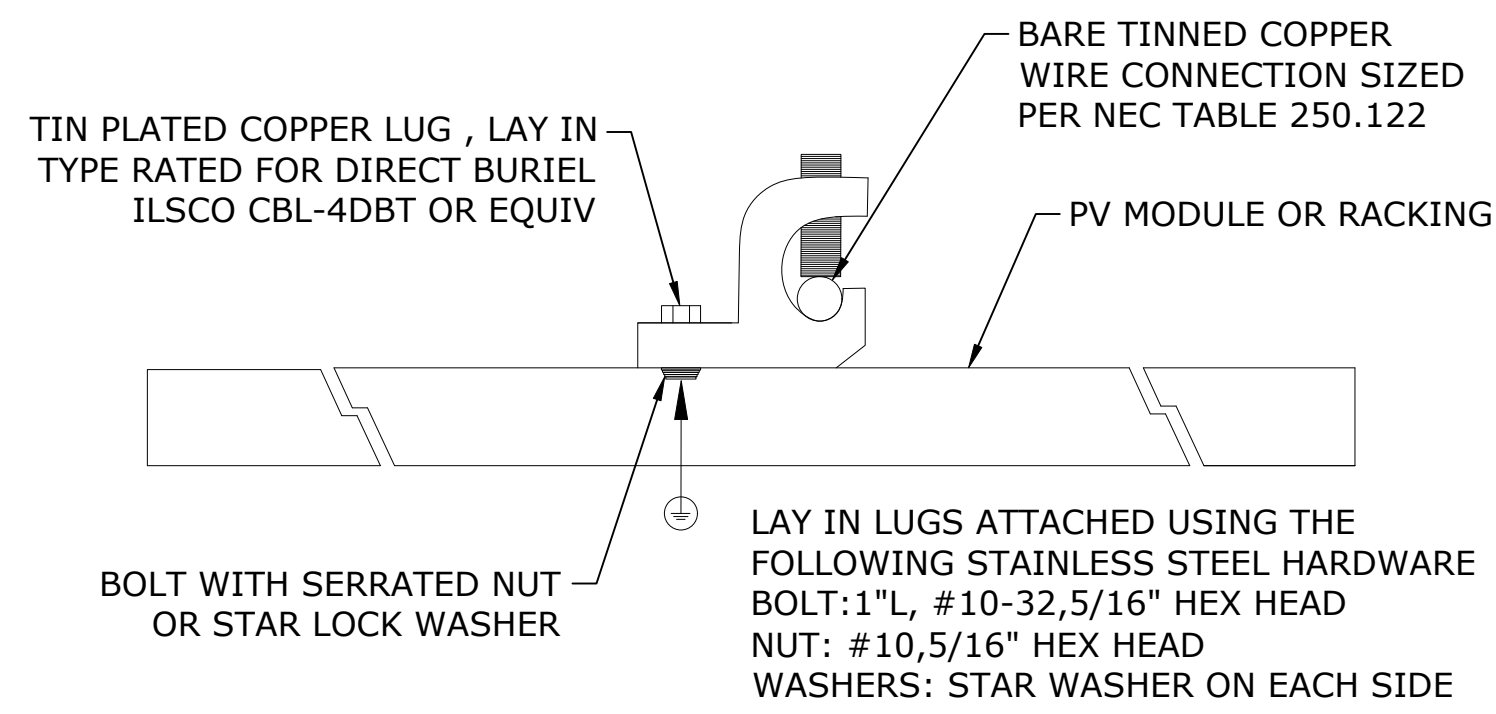
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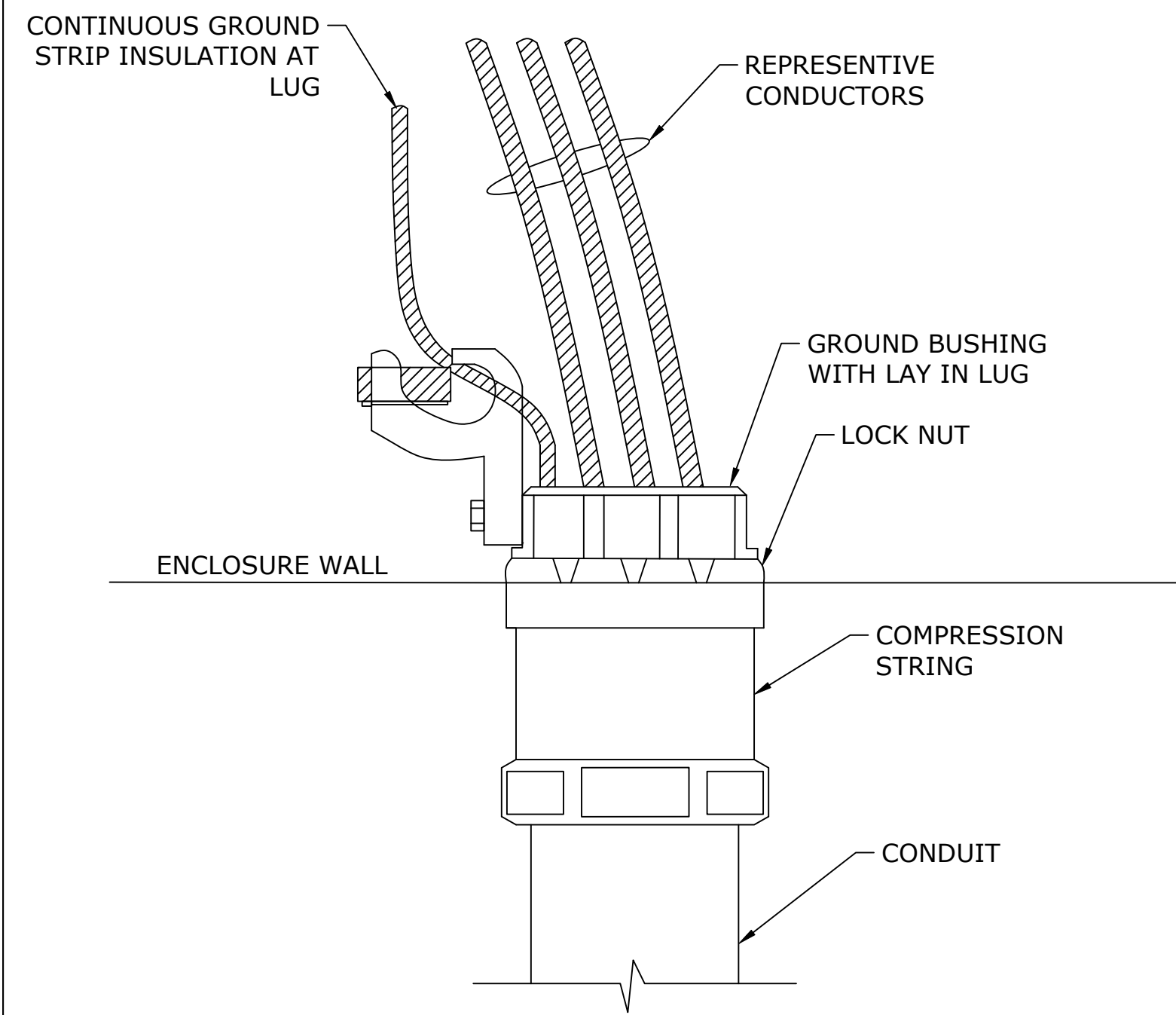
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 APN: 33829
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 UTILITY: ONCOR
 PRN NUMBER: FMS-CU-2023-1688

ILLUMINE i
 STRINGING MAP
 DRAFTED BY/QC'ED BY:
 NAVANEETHAN.C/MANISH A
 SCALE: AS NOTED
 DATE: 05/16/2024
 REV: B
 E-01

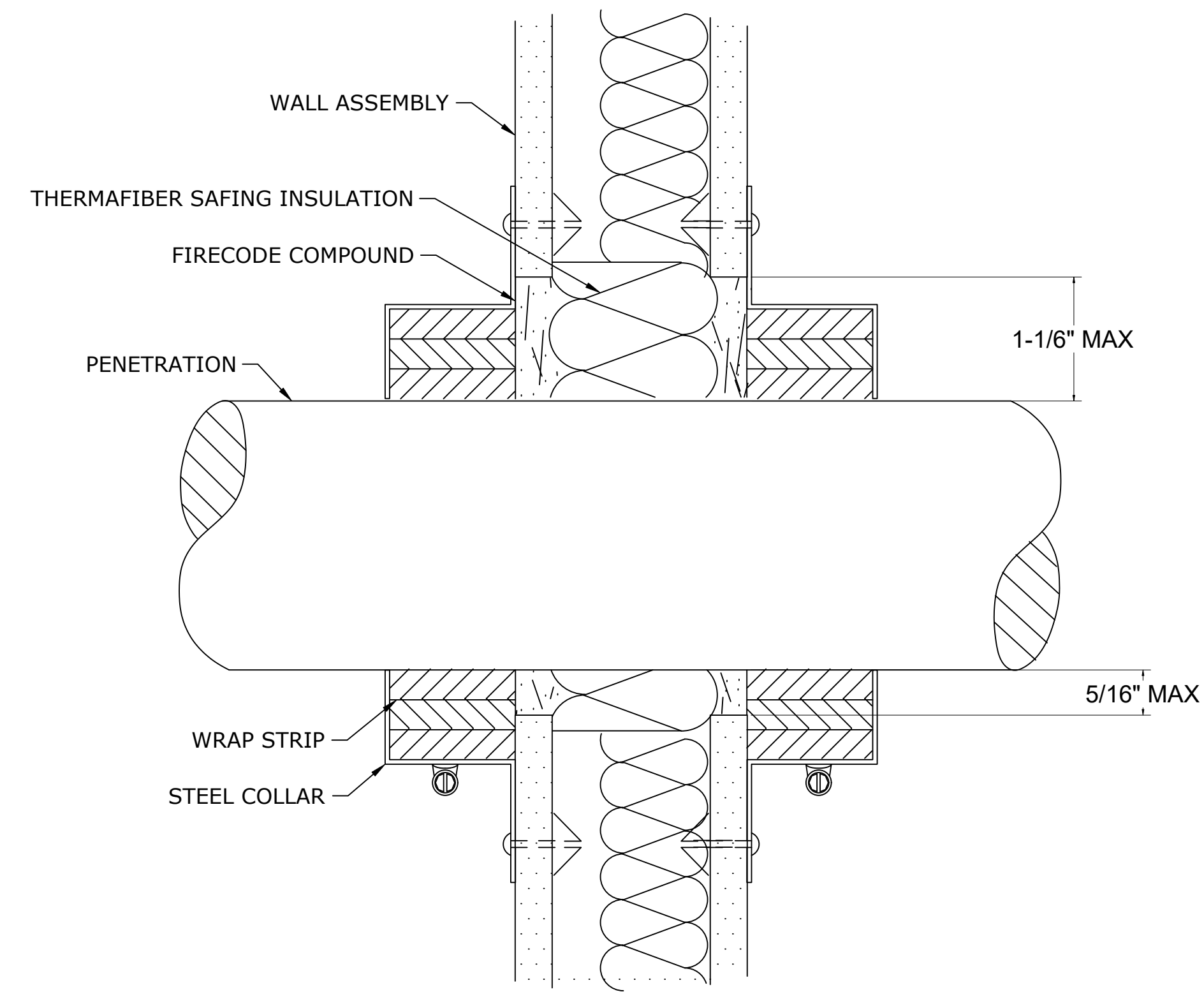
GROUND LUG DETAIL:



CONDUIT BODY GROUNDING DETAIL:

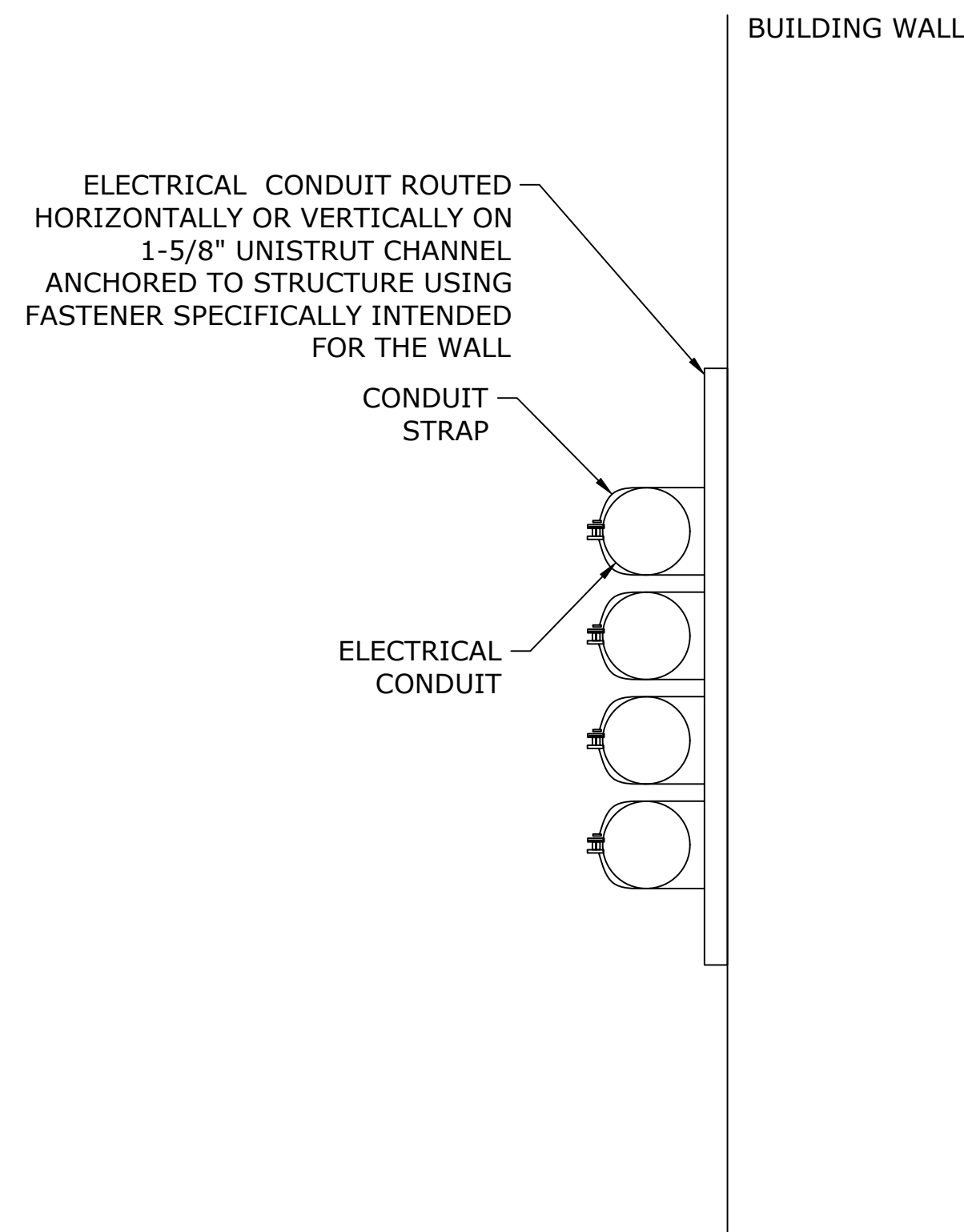


FIRE WALL PENETRATION DETAIL:

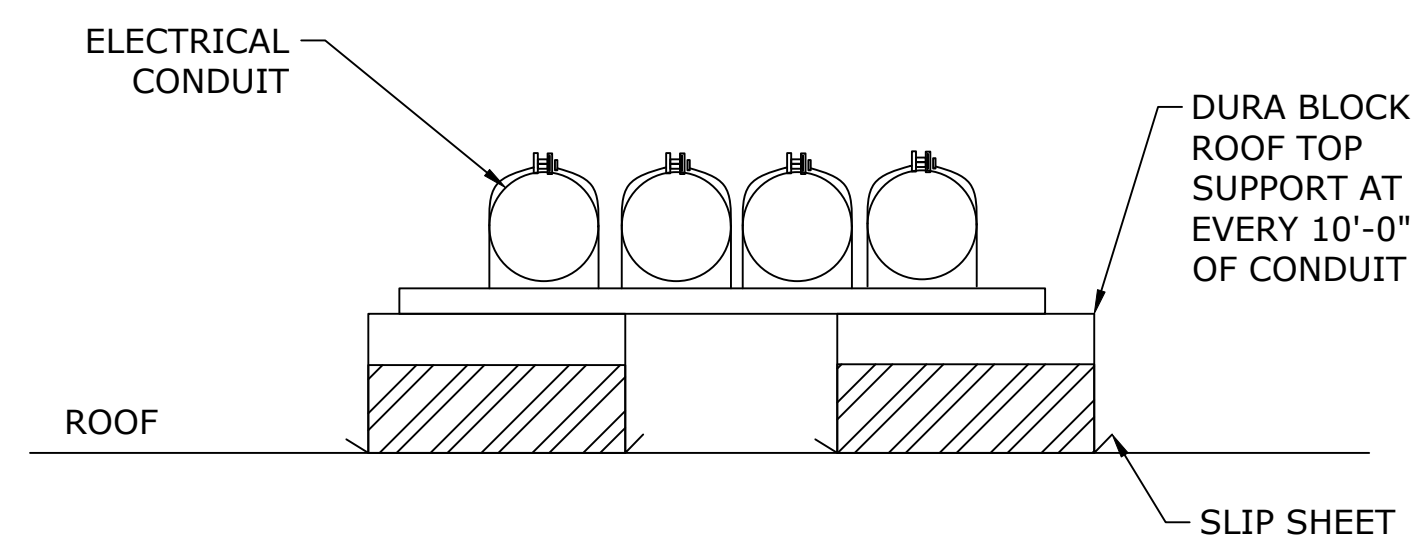


SCALE: NTS

CONDUIT WALL ANCHORING:



TYPICAL DURA-BLOCK CONDUIT SUPPORT DETAIL:



NOTE: DETAIL DRAWINGS ARE FOR REFERENCE ONLY

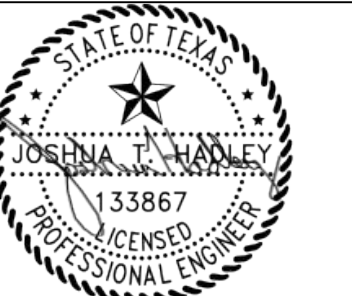
GROUNDING - SEE ELECTRICAL DIAGRAM AND ELECTRICAL DETAILS FOR MORE GROUNDING INFORMATION:

1. ONLY ONE CONNECTION TO DC CIRCUITS AND AC CIRCUITS WILL BE USED FOR SYSTEM GROUNDING (REFERENCED TO THE SAME POINT).
2. EQUIPMENT GROUNDING CONDUCTORS AND SYSTEM GROUNDING ELECTRODE CONDUCTORS WILL HAVE AS SHORT A DISTANCE TO THE GROUNDING CONNECTION POINT AS PRACTICABLE AND A MINIMUM NUMBER OF TURNS.
3. TO ENSURE PROPER GROUNDING, NON-CURRENT CARRYING METAL PARTS SHALL BE INSTALLED, NOTING THAT PAINT AND FINISH SHALL BE PROPERLY REMOVED WHERE IT MAY INSULATE AN ENCLOSURE'S BONDING CONNECTION. APPLY NO-LOX OR OTHER SIMILAR ANTI-OXIDANT COMPOUND TO EXPOSED SURFACES.
4. THE CONNECTION TO THE MODULE OF THE PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE SO ARRANGED THAT REMOVAL OF A MODULE FROM THE PHOTOVOLTAIC SOURCE CIRCUIT DOES NOT INTERRUPT A GROUND TO ANOTHER PHOTOVOLTAIC SOURCE CIRCUIT.
5. GROUNDING SYSTEM COMPONENTS SHALL BE APPROVED FOR THEIR PURPOSE, INCLUDING BUT NOT LIMITED TO GROUND RODS, GROUNDING LUGS, GROUNDING CLAMPS, ETC. GROUNDING DEVICES EXPOSED TO THE ENVIRONMENT SHALL BE RATED FOR DIRECT BURIAL.
6. UNDERGROUND OR INACCESSIBLE CONNECTIONS OF GROUNDING CONDUCTORS SHALL ONLY BE MADE VIA EXO-THERMIC WELDS. THE USE OF MECHANICAL CONNECTIONS ARE ACCEPTABLE FOR ACCESSIBLE ABOVE GROUND LOCATIONS.
7. ALL METALLIC CONDUITS SHALL BE INSTALLED AND TERMINATED WITH INSULATED GROUND BUSHINGS.



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SYSTEM INFORMATION
DC SYSTEM SIZE: 539.32kW
AC SYSTEM SIZE: 400.00kW
MODULES:
(1112) HANWHA Q CELLS
Q.PEAK DUO XL-G10.3/BFG
485W
INVERTERS:
(2) SOLAREEDGE TECHNOLOGIES
SE120KUS (480/277V, 3PH)
(2) SOLAREEDGE TECHNOLOGIES
SE80K-US (480/277V, 3PH)
OPTIMIZER:
(558) SOLAREEDGE P1101
POWER OPTIMIZER
WIND SPEED: 105MPH
SNOW LOAD: 5PSF
MINIMUM
TEMPERATURE: -8°C
MAXIMUM
TEMPERATURE: 37°C



JH PROFESSIONAL DESIGNS
TX FIRM: F-26320
SEALED: 05/16/2024

SOLAR PV PROJECT
FOR
CTE ENTERTAINMENT, LP COM-41783
1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
32.912126, -96.445302

REVISION		
DATE	DESCRIPTION	REV
03/22/2024	PERMIT PLAN	A
05/16/2024	EQUIPMENT UPDATE	B

PROJECT INFORMATION

NAME: CTE ENTERTAINMENT, LP
COM-41783
ADDRESS: 1290 I-30 FRONTAGE RD,
ROCKWALL, TX 75032
EST. ID: 10443720006363900
32.912126, -96.445302
APN: 33829

AHJ: TX-CITY OF ROCKWALL

UTILITY: ONCOR

PRN NUMBER: FMS-CU-2023-1688



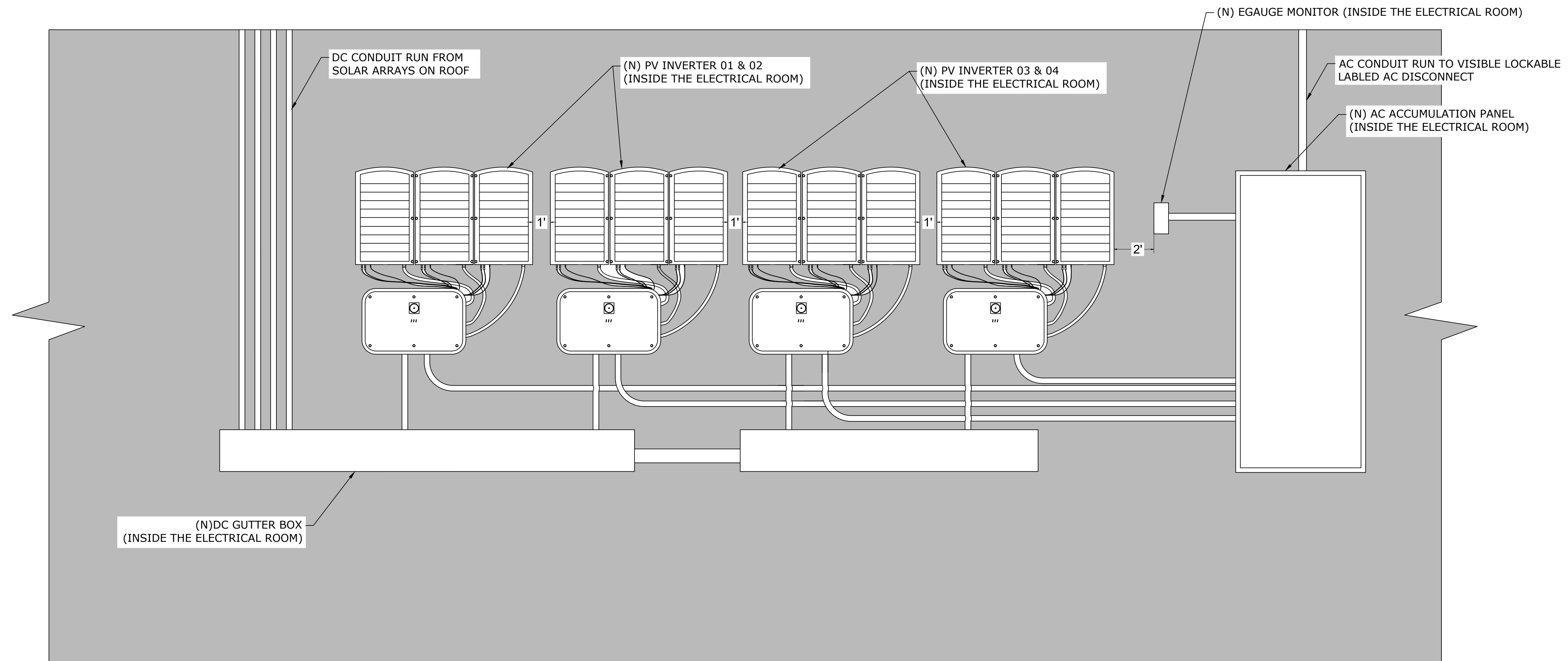
ELECTRICAL MOUNTING
DETAILS

DRAFTED BY/QC'ED BY:
NAVANEETHAN.C/MANISH A

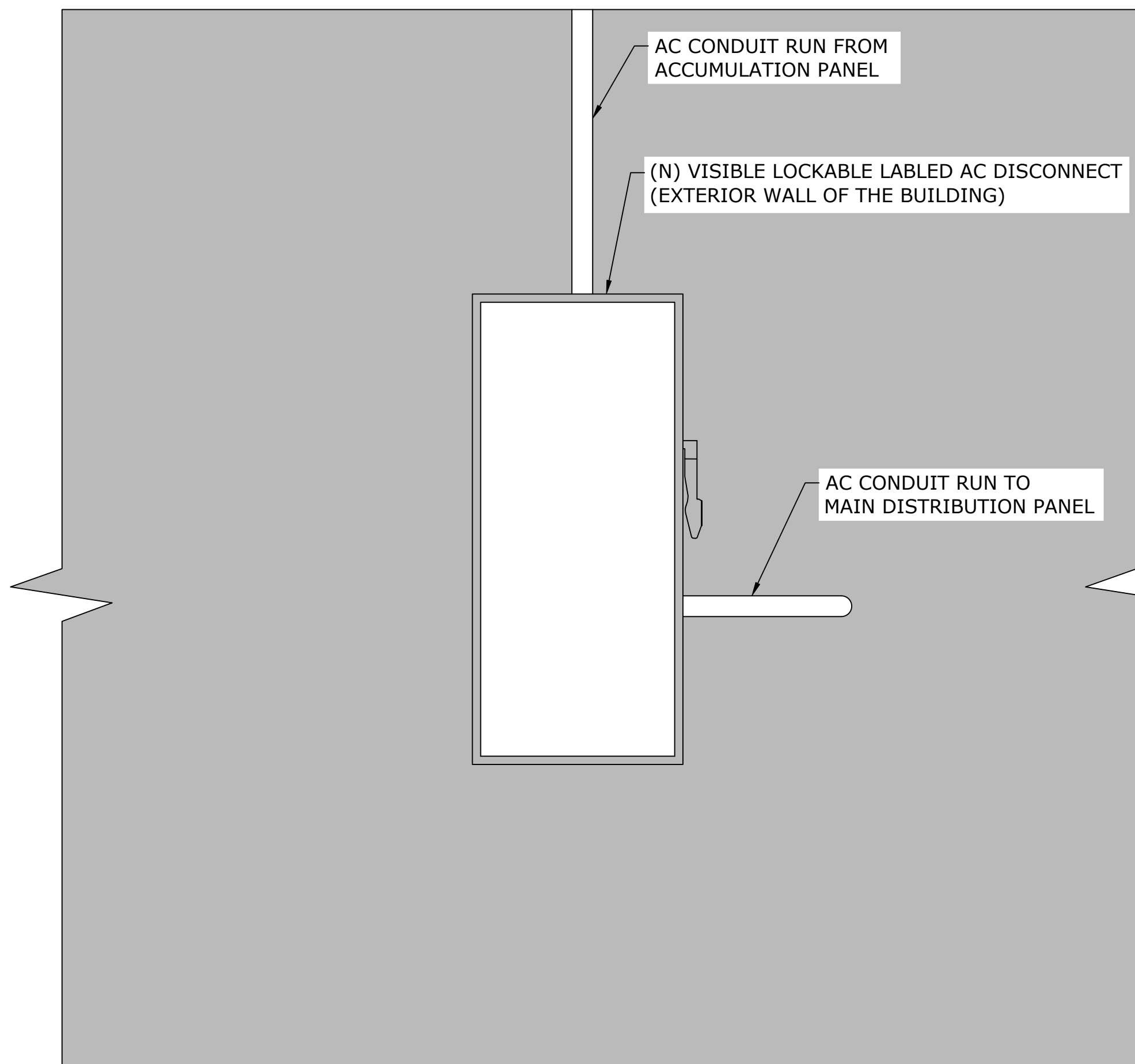
SCALE: AS NOTED REV: B

DATE: 05/16/2024 E-02

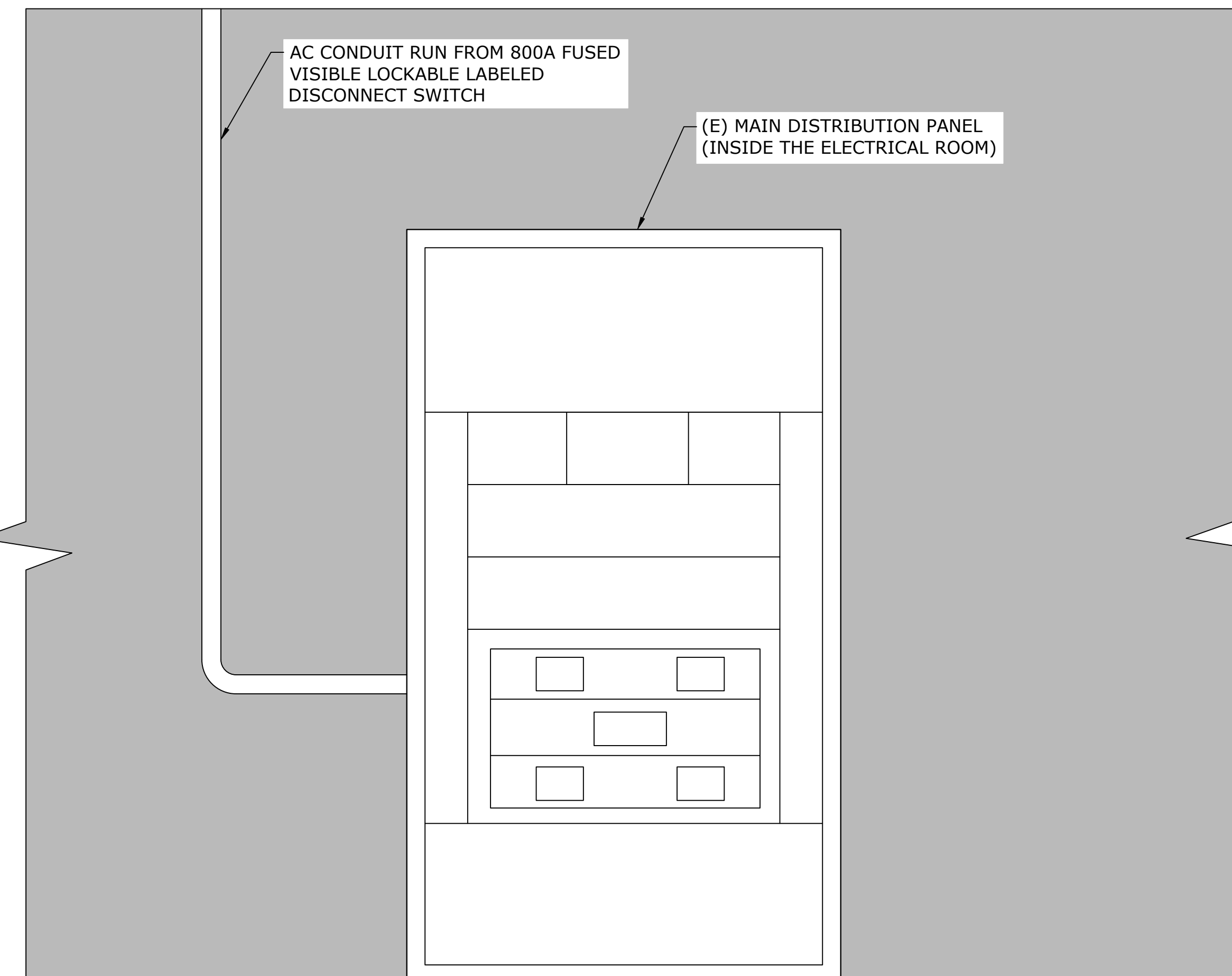
ELECTRICAL EQUIPMENT ELEVATION VIEW :



SCALE: NTS



SCALE: NTS



SYSTEM INFORMATION
DC SYSTEM SIZE: 539.32kW
AC SYSTEM SIZE: 400.00kW
MODULES:
(1112) HANWHA Q CELLS
Q.PEAK DUO XL-G10.3/BFG
485W
INVERTERS:
(2) SOLAREDGE TECHNOLOGIES
SE120KUS (480/277V, 3PH)
(2) SOLAREDGE TECHNOLOGIES
SE80K-US (480/277V, 3PH)
OPTIMIZER:
(558) SOLAREDGE P1101
POWER OPTIMIZER
WIND SPEED: 105MPH
SNOW LOAD: 5PSF
MINIMUM TEMPERATURE: -8°C
MAXIMUM TEMPERATURE: 37°C



JH PROFESSIONAL DESIGNS
TX FIRM: F-26320
SEALED: 05/16/2024

SOLAR PV PROJECT
FOR
CTE ENTERTAINMENT, LP COM-41783
1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
32.912126, -96.445302

REVISION		
DATE	DESCRIPTION	REV
03/22/2024	PERMIT PLAN	A
05/16/2024	EQUIPMENT UPDATE	B

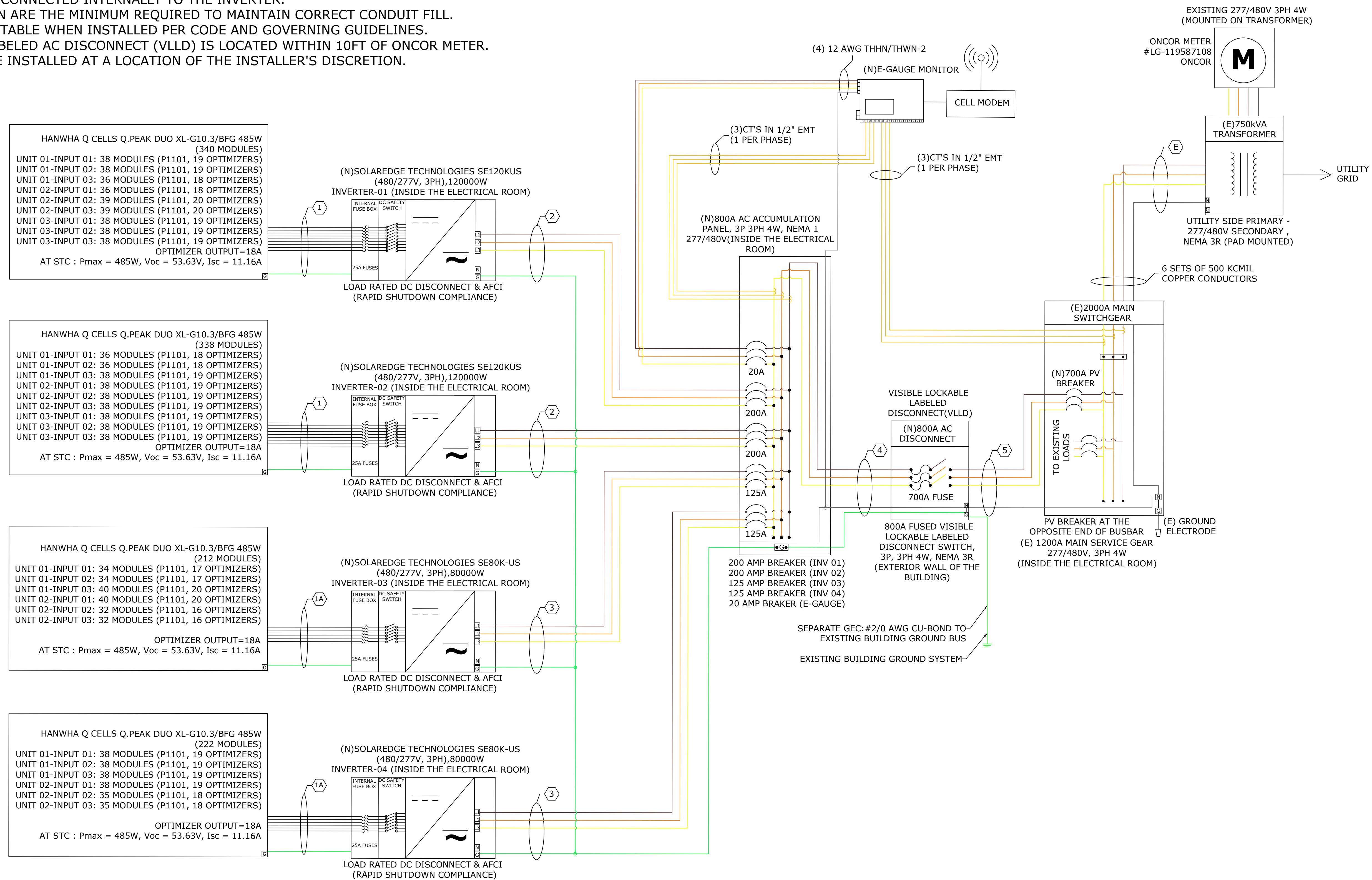
PROJECT INFORMATION
NAME: CTE ENTERTAINMENT, LP
COM-41783
ADDRESS: 1290 I-30 FRONTAGE RD,
ROCKWALL, TX 75032
EST ID: 10443720006363900
32.912126, -96.445302
APN: 33829
AHJ: TX-CITY OF ROCKWALL
UTILITY: ONCOR
PRN NUMBER: FMS-CU-2023-1688



EQUIPMENT ELEVATION VIEW
DRAFTED BY/QC'ED BY:
NAVANEETHAN.C/MANISH A
SCALE: AS NOTED REV: B
DATE: 05/16/2024 E-03

ELECTRICAL DIAGRAM: DC SYSTEM SIZE: **539.32kW**, AC SYSTEM SIZE: **400.00kW**

- NOTE:**
1. TYPICALLY EACH SOLAREEDGE P1101 POWER OPTIMIZER IS CONNECTED TO TWO MODULES.
 2. EACH SOLAREEDGE P1101 POWER OPTIMIZER IS RAPID SHUTDOWN COMPLIANT.
 3. ALL DC FUSES SHOWN ARE CONNECTED INTERNALLY TO THE INVERTER.
 4. ALL CONDUIT SIZES SHOWN ARE THE MINIMUM REQUIRED TO MAINTAIN CORRECT CONDUIT FILL.
 5. LARGER CONDUIT IS ACCEPTABLE WHEN INSTALLED PER CODE AND GOVERNING GUIDELINES.
 6. THE VISIBLE LOCKABLE, LABELED AC DISCONNECT (VLLD) IS LOCATED WITHIN 10FT OF ONCOR METER.
 7. MONITORING DEVICE TO BE INSTALLED AT A LOCATION OF THE INSTALLER'S DISCRETION.

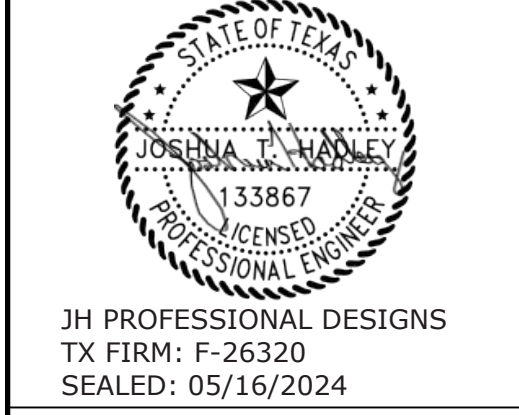


CONDUIT SCHEDULE					
TAG ID	NO OF PARALLEL FEEDER	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND
1	1	1-1/4" EMT 1-1/4" EMT 1-1/4" EMT	(6) 10 AWG PV WIRE 2kV (6) 10 AWG PV WIRE 2kV (6) 10 AWG PV WIRE 2kV	NONE	(1) 6 AWG THHN/THWN-2
1A	1	1-1/4" EMT 1-1/4" EMT	(6) 10 AWG PV WIRE 2kV (6) 10 AWG PV WIRE 2kV	NONE	(1) 6 AWG THHN/THWN-2
2	1	2" EMT	(3) 3/0 AWG THHN/THWN-2	NONE	(1) 6 AWG THHN/THWN-2
3	1	1-1/4" EMT	(3) 1 AWG THHN/THWN-2	NONE	(1) 6 AWG THHN/THWN-2
4	2	3" EMT	(3) 500 KCMIL THHN/THWN-2	(1) 1/0 AWG THHN/THWN-2	(1) 1/0 AWG THHN/THWN-2
5	2	3" EMT	(3) 500 KCMIL THHN/THWN-2	(1) 500 KCMIL THHN/THWN-2	NONE



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 MODULES:
 (1112) HANWHA Q CELLS
 Q.PEAK DUO XL-G10.3/BFG
 485W
 INVERTERS:
 (2) SOLAREEDGE TECHNOLOGIES
 SE120KUS (480/277V, 3PH)
 (2) SOLAREEDGE TECHNOLOGIES
 SE80K-US (480/277V, 3PH)
 OPTIMIZER:
 (558) SOLAREEDGE P1101
 POWER OPTIMIZER
 WIND SPEED: 105MPH
 SNOW LOAD: 5PSF
 MINIMUM
 TEMPERATURE: -8°C
 MAXIMUM
 TEMPERATURE: 37°C



JH PROFESSIONAL DESIGNS
 TX FIRM: F-26320
 SEALED: 05/16/2024

SOLAR PV PROJECT
 FOR
CTE ENTERTAINMENT, LP COM-41783
 1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
 32.912126, -96.445302

REVISION		
DATE	DESCRIPTION	REV
03/22/2024	PERMIT PLAN	A
05/16/2024	EQUIPMENT UPDATE	B

PROJECT INFORMATION
 NAME: CTE ENTERTAINMENT, LP
 COM-41783
 ADDRESS: 1290 I-30 FRONTAGE RD,
 ROCKWALL, TX 75032
 EST ID: 10443720006363900
 32.912126, -96.445302
 APN: 33829
 AHJ: TX-CITY OF ROCKWALL
 UTILITY: ONCOR
 PRN NUMBER: FMS-CU-2023-1688
ILLUMINE i
 THREE LINE DIAGRAM
 DRAFTED BY/QC'ED BY:
 NAVANEETHAN.C/MANISH A
 SCALE: AS NOTED REV: B
 DATE: 05/16/2024 E-05

ELECTRICAL CALCULATION: DC SYSTEM SIZE: **539.32kW**, AC SYSTEM SIZE: **400.00kW**

OCPD CALCULATIONS:
 MAIN PANEL RATING:2000A,
 LINE SIDE INTERCONNECTION ALLOWABLE BACKFEED IS =2000A
 OCPD CALCULATIONS: INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X 1.25
 =(144.3AX2)+(96.5AX2)X1.25=602.00A=>PV BREAKER/FUSE = 700A
 TOTAL REQUIRED PV BREAKER/FUSE SIZE =>700A PV BREAKER/FUSE

ELECTRICAL CALCULATIONS:

SYSTEM INFO:
539.32 kW DC SYSTEM SIZE
(1112)HANWHA Q CELLS Q.PEAK DUO XL-G10.3/BFG 485W MODULES
(2)SOLAREEDGE TECHNOLOGIES SE120KUS (480/277V, 3PH)
(2)SOLAREEDGE TECHNOLOGIES SE80K-US (480/277V, 3PH)
(558)SOLAREEDGE P1101 POWER OPTIMIZER

SYSTEM CHARACTERISTICS:(INV 01 & 02)
 VMP - MAXIMUM POWER POINT VOLTAGE = 850V
 VOC - MAXIMUM INVERTER SYSTEM VOLTAGE = 1000V
 IMP - RATED MAXIMUM POWER-POINT CURRENT = 144.75A
 ISC - MAXIMUM CIRCUIT CURRENT = 144.75A

SYSTEM CHARACTERISTICS:(INV 03 & 04)
 VMP - MAXIMUM POWER POINT VOLTAGE = 850V
 VOC - MAXIMUM INVERTER SYSTEM VOLTAGE = 1000V
 IMP - RATED MAXIMUM POWER-POINT CURRENT = 96.50A
 ISC - MAXIMUM CIRCUIT CURRENT = 96.50A

DC WIRE SIZING (TAG 1):
 MAX CIRCUIT CURRENT = OPTIMIZER MAX OUTPUT X HIGH IRRADIANCE [NEC 690.8(A)(1)] X 1.25 [NEC 690.53]
 =18A X 1 X 1.25= 22.5A
 ADJUSTED CONDUCTOR AMPACITY = (HIGH TEMP) [PER TABLE 310.15(B)(1)] X (CONDUIT FILL) [PER TABLE 310.15(C)(1)]
 X (CONDUCTOR AMPACITY) (PER TABLE 310.16) = 0.91 X 0.8 X 40A = 29.12A
 TERMINAL RATING, [PER 110.14(C)] - 10 AWG , 75°C RATED = 35A
 30A ≥ 22.5A SO THE TERMINAL RATING GOVERNS THE CONDUCTOR SIZING
 ALSO, 29.12A ≥ 18A, AND **10 AWG** IS SUFFICIENT.

AC WIRE SIZING (TAG 2):
 MAX AC OUTPUT CURRENT = MAX INVERTER OUTPUT X 1.25 [PER NEC 690.52] = 144.3A X 1.25 = 180.38A
 ADJUSTED CONDUCTOR AMPACITY = (HIGH TEMP) [PER TABLE 310.15(B)(1)] X (CONDUIT FILL) [PER TABLE 310.15(C)(1)]
 X (CONDUCTOR AMPACITY) (PER TABLE 310.16) = 0.91 X 1 X 225A = 204.75A
 TERMINAL RATING, [PER 110.14(C)] - 3/0 AWG , 75°C RATED = 200A
 200A ≥ 180.38A, SO THE TERMINAL RATING GOVERNS THE CONDUCTOR SIZING
 ALSO, 204.75A ≥ 144.3A, AND **3/0 AWG** IS SUFFICIENT.
 INVERTER OVER CURRENT PROTECTION = INVERTER MAX OUTPUT CURRENT X 1.25
 = 144.3A X 1.25 = 200A --> 200A OVERCURRENT PROTECTION

AC WIRE SIZING (TAG 3):
 MAX AC OUTPUT CURRENT = MAX INVERTER OUTPUT X 1.25 [PER NEC 690.52] = 96.5A X 1.25 = 120.63A
 ADJUSTED CONDUCTOR AMPACITY = (HIGH TEMP) [PER TABLE 310.15(B)(1)] X (CONDUIT FILL) [PER TABLE 310.15(C)(1)]
 X (CONDUCTOR AMPACITY) (PER TABLE 310.16) = 0.91 X 1 X 145A = 131.95A
 TERMINAL RATING, [PER 110.14(C)] - 1 AWG , 75°C RATED = 130A
 130A ≥ 120.63A, SO THE TERMINAL RATING GOVERNS THE CONDUCTOR SIZING
 ALSO, 131.95A ≥ 96.5A, AND **1 AWG** IS SUFFICIENT.
 OVER CURRENT PROTECTION = MAX OUTPUT CURRENT X CONTINUOUS LOAD
 = 96.5A X 1.25 = 125A --> 125A OVERCURRENT PROTECTION

AC WIRE SIZING (TAG 4 & 5): (NO OF PARALLEL FEEDER =2)
 OVER CURRENT PROTECTION = MAX OUTPUT CURRENT X 1.25
 =(144.3A X 2)+(96.5A X 2)X 1.25 =602.00A/2 = 301A
 ADJUSTED CONDUCTOR AMPACITY = (HIGH TEMP) [PER TABLE 310.15(B)(1)] X (CONDUIT FILL) [PER TABLE 310.15(C)(1)]
 X (CONDUCTOR AMPACITY) (PER TABLE 310.16) = 0.91 X 1 X 430A = 391.30A
 TERMINAL RATING, [PER 110.14(C)] - 500 KCMIL , 75°C RATED = 380A
 380A ≥ 301A, SO THE TERMINAL RATING GOVERNS THE CONDUCTOR SIZING
 ALSO, 391.30A ≥ 240.8A, AND **500 KCMIL** IS SUFFICIENT.

NOTE:
 1.THIS INSTALLATION IS TO BE CONSIDERED SUPERVISED.ALL NEW ADDITIONS AND ALTERATIONS TO ANY EQUIPMENT IDENTIFIED IN THIS DOCUMENT MUST BE MADE WITH ENGINEERING SUPERVISION AND ALL WORK MUST BE COMPLETED BY QUALIFIED PERSONNEL.
 2.ALL EQUIPMENT AND TERMINALS MUST BE MINIMUM 75°C RATED.
 3.ALL CONDUCTORS ARE COPPER, UNLESS OTHERWISE SPECIFIED.

MODULE SPECIFICATIONS	
MODEL	HANWHA Q CELLS Q.PEAK DUO XL-G10.3/BFG 485W
MODULE POWER @ STC	485W
OPEN CIRCUIT VOLTAGE: Voc	53.63V
MAX POWER VOLTAGE: Vmp	45.63V
SHORT CIRCUIT CURRENT: Isc	11.16A
MAX POWER CURRENT: Imp	10.63A

INVERTER-01 & 02 SPECIFICATIONS	
MODEL	SOLAREEDGE TECHNOLOGIES SE120KUS (480/277V, 3PH)
POWER RATING	120000W
MAX OUTPUT CURRENT	144.3A
CEC WEIGHTED EFFICIENCY	98.5%
MAX INPUT CURRENT	144.75A
MAX DC VOLTAGE	1000V

OPTIMIZER CHARACTERISTICS	
MODEL	SOLAREEDGE P1101 POWER OPTIMIZER
MAX INPUT VOLTAGE	125 VDC
MAX INPUT CURRENT	14.1 ADC
MAX OUTPUT CURRENT	18 ADC

INVERTER-03 & 04 SPECIFICATIONS	
MODEL	SOLAREEDGE TECHNOLOGIES SE80K-US (480/277V, 3PH)
POWER RATING	80000W
MAX OUTPUT CURRENT	96.5A
CEC WEIGHTED EFFICIENCY	98.5%
MAX INPUT CURRENT	96.5A
MAX DC VOLTAGE	1000V

VOLTAGE DROP CALCULATIONS:

DC VOLTAGE DROP CALCULATION												
SOURCE	TERMINATION	TAG	CONDUIT TYPE	OPTIMIZER CURRENT (IMP)	STRING VOLTAGE AT 2%DB (VMP)	#SET OF PARALLEL CONDUCTOR	CONDUCTOR	CONDUCTOR MATERIAL	RESISTANCE AT 75 DEG C	RESISTANCE AT 2%DB	MAX CONDUTOR LENGTH(ft)	%V.DROP
MODULES	INVERTER 01	1	EMT	18	850	1	C AWG 10	Cu	0.00124	0.001087802	230	1.06%
MODULES	INVERTER 02	1	EMT	18	850	1	C AWG 10	Cu	0.00124	0.001087802	390	1.80%
MODULES	INVERTER 03	1A	EMT	18	850	1	C AWG 10	Cu	0.00124	0.001087802	260	1.20%
MODULES	INVERTER 04	1A	EMT	18	850	1	C AWG 10	Cu	0.00124	0.001087802	200	0.92%
											MAX Vdrop	1.80%
3 PHASE AC VOLTAGE DROP CALCULATION												
SOURCE	TERMINATION	TAG	CONDUIT TYPE	CURRENT	VOLTAGE	#SET OF PARALLEL CONDUCTOR	CONDUCTOR	CONDUCTOR MATERIAL	RESISTANCE AT 75 DEG C	RESISTANCE AT 2%DB	MAX CONDUTOR LENGTH(ft)	%V.DROP
INVERTER TO POI												
INVERTER 01	AC ACCUMULATION	2	EMT	144.3	480	1	L AWG 3/0	Cu	0.000082	0.000071935	10	0.04%
INVERTER 02	AC ACCUMULATION	2	EMT	144.3	480	1	L AWG 3/0	Cu	0.000082	0.000071935	10	0.04%
INVERTER 03	AC ACCUMULATION	3	EMT	96.5	480	1	L AWG 3/0	Cu	0.000082	7.19353E-05	10	0.03%
INVERTER 04	AC ACCUMULATION	3	EMT	96.5	480	1	L AWG 3/0	Cu	0.000082	7.19353E-05	10	0.03%
AC ACCUMULATION	AC DISCONNECT	4	EMT	481.6	480	1	I AWG 01	Cu	0.00016	0.000140362	25	0.61%
AC DISCONNECT	POI	5	EMT	481.6	480	2	R 500 KCMIL	Cu	0.000032	0.000028072	15	0.04%
											MAX Vdrop	0.84%
											TOTAL SYSTEM VDROD	2.64%



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SYSTEM INFORMATION
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 MODULES:
 (1112)HANWHA Q CELLS Q.PEAK DUO XL-G10.3/BFG 485W
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 (2)SOLAREEDGE TECHNOLOGIES SE80K-US (480/277V, 3PH)
 OPTIMIZER:
 (558)SOLAREEDGE P1101 POWER OPTIMIZER
 WIND SPEED:105MPH
 SNOW LOAD:5PSF
 MINIMUM TEMPERATURE: -8°C
 MAXIMUM TEMPERATURE: 37°C



JH PROFESSIONAL DESIGNS
 TX FIRM: F-26320
 SEALED: 05/16/2024

SOLAR PV PROJECT
 FOR
CTE ENTERTAINMENT, LP COM-41783
 1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
 32.912126, -96.445302

REVISION		
DATE	DESCRIPTION	REV
03/22/2024	PERMIT PLAN	A
05/16/2024	EQUIPMENT UPDATE	B

PROJECT INFORMATION
 NAME:CTE ENTERTAINMENT, LP COM-41783
 ADDRESS:1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
 EST ID: 10443720006363900
 32.912126, -96.445302
 APN:33829
 AHJ:TX-CITY OF ROCKWALL
 UTILITY:ONCOR
 PRN NUMBER:FMS-CU-2023-1688

ILLUMINE i

ELECTRICAL CALCULATION

DRAFTED BY/QC'ED BY:
 NAVANEETHAN.C/MANISH A

SCALE:AS NOTED REV:B

DATE:05/16/2024 E-06

PLACARDS

1. WARNING
ELECTRIC SHOCK HAZARD
 TERMINALS ON BOTH LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION

INSTALLED ON: AC DISCONNECT, LOAD CENTERS, COMBINER PANELS, POINT OF INTERCONNECTION
 APPLICABLE CODE(S): NEC 690.13(B)

2. WARNING: PHOTOVOLTAIC POWER SOURCE

INSTALLED ON: CONDUIT, RACEWAYS, AND J-BOXES (LABELED EVERY 10'). REFLECTIVE. MIN 3/8" WHITE TEXT ON BLACK BACKGROUND.
 APPLICABLE CODE(S): NEC 690.31(D)(2)

3. PHOTOVOLTAIC DC DISCONNECT

INSTALLED ON: DC DISCONNECT(S)
 APPLICABLE CODE(S): NEC 690.13(B)

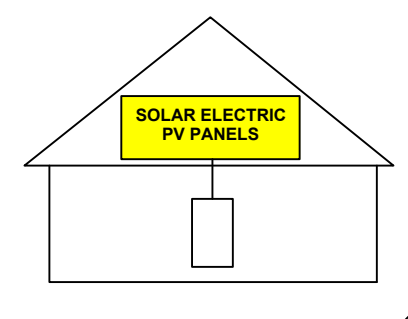
INVERTER 1 & 2

4. MAXIMUM DC VOLTAGE OF PV SYSTEM
1000 V

INSTALLED ON: INVERTER
 APPLICABLE CODE(S): NEC 690.53

5. SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



INSTALLED ON: WITHIN 3 FT OF SERVICE DISCONNECTING MEANS. MIN 3/8" BLACK TEXT ON YELLOW BACKGROUND & 3/16" BLACK TEXT ON WHITE BACKGROUND.
 APPLICABLE CODE(S): NEC 690.56(C)

6. RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

INSTALLED ON: RAPID SHUTDOWN SWITCH
 APPLICABLE CODE(S): NEC 690.56(C)(2)

7. PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH
 RATED AC OPERATING CURRENT 481.6 AMPS AC
 AC NOMINAL OPERATING VOLTAGE 480 VAC

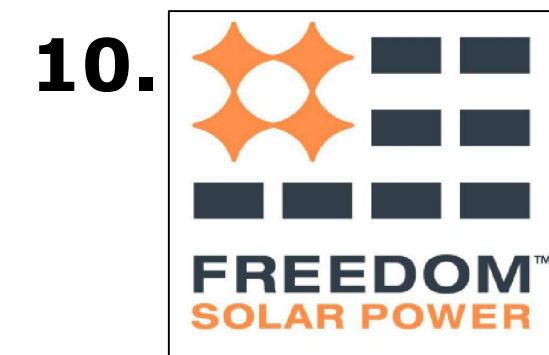
INSTALLED ON: AC DISCONNECT(S), POINT OF INTERCONNECTION.
 APPLICABLE CODE(S): NEC 690.54

8. WARNING
DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

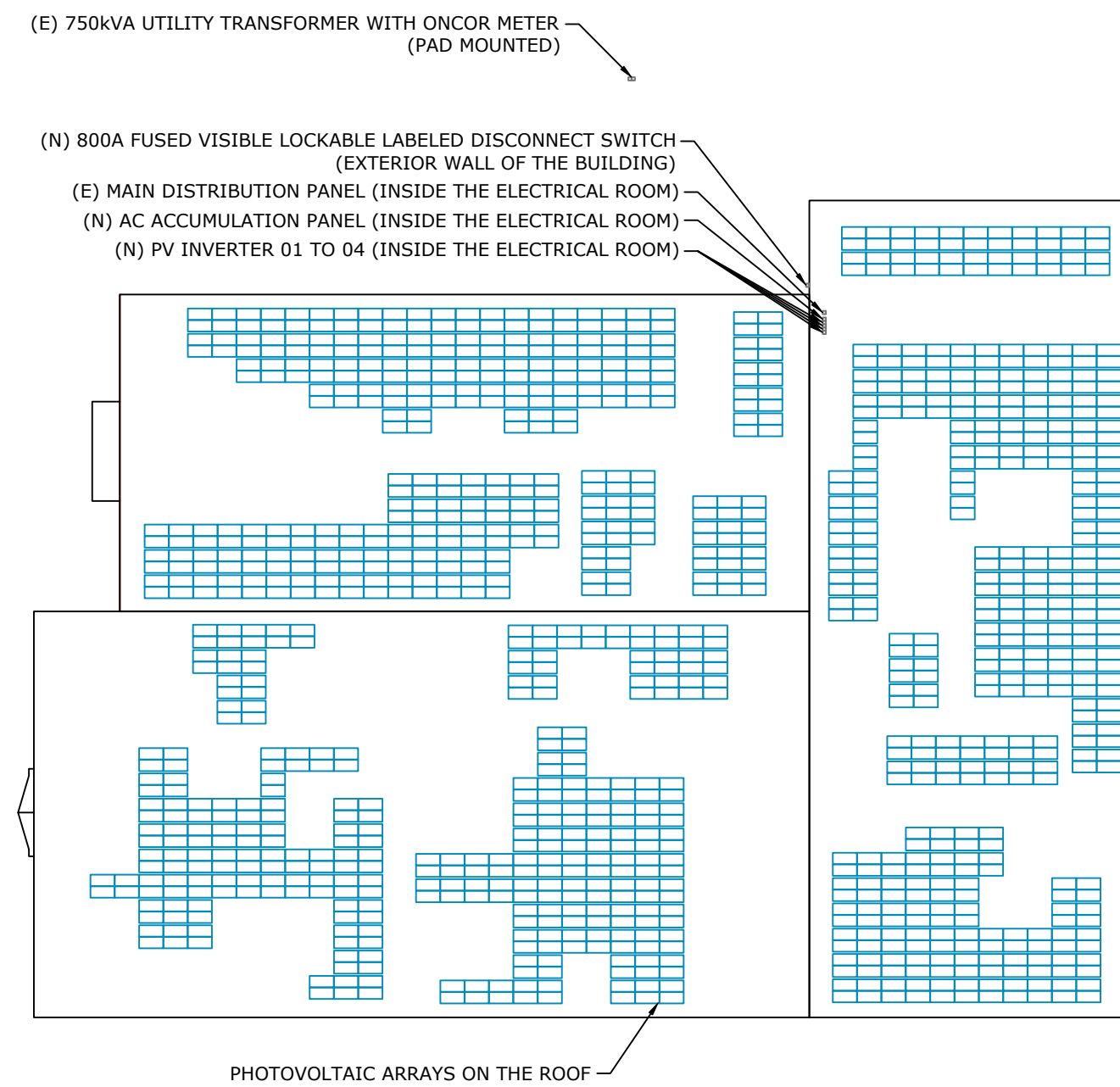
INSTALLED ON: POINT OF INTERCONNECTION
 APPLICABLE CODE(S): NEC 705.12(C)

9. DEDICATED PHOTOVOLTAIC SYSTEM COMBINER PANEL NO LOAD SHALL BE ADDED TO THIS PANEL

INSTALLED ON: COMBINER PANEL



11. WARNING: !
 POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN



1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032

ALL PLACARDS SHALL BE OF WEATHER PROOF CONSTRUCTION, BACKGROUND ON ALL PLACARDS SHALL BE RED WITH WHITE LETTERING U.O.N. PLACARD SHALL BE MOUNTED DIRECTLY ON THE EXISTING UTILITY ELECTRICAL SERVICE. FASTENERS APPROVED BY THE LOCAL JURISDICTION

LABEL LOCATION
 SERVICE PANEL
 PER CODE: NEC 705.10

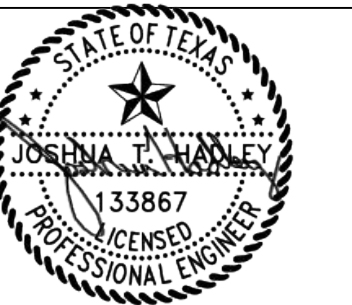
KEY	QTY.	LOCATION
1.	3	AC DISCONNECT, LOAD CENTER, POINT OF INTERCONNECTION
2.	10	CONDUIT
3.	4	DC DISCONNECTS
4.	4	INVERTER
5.	6	AC DISCONNECT, DC DISCONNECT, POINT OF INTERCONNECTION
6.	4	INVERTER
7.	2	AC DISCONNECT, POINT OF INTERCONNECTION
8.	1	POINT OF INTERCONNECTION
9.	1	COMBINER PANEL
10.	1	POINT OF INTERCONNECTION
11.	1	POINT OF INTERCONNECTION

NOTES: ROOFTOP TRIP HAZARDS ON ROOF SHALL BE IDENTIFIED WITH REFLECTIVE MATERIAL. MARKING CONTENT AND FORMAT RED BACKGROUND WHITE LETTERING MINIMUM 3/8" LETTER HEIGHT ALL CAPITAL LETTERS, ARIAL OR SIMILAR FONT, NON-BOLD. WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (DURABLE ADHESIVE MATERIALS MUST MEET THIS REQUIREMENT).



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SYSTEM INFORMATION
 DC SYSTEM SIZE: 539.32kW
 AC SYSTEM SIZE: 400.00kW
 MODULES:
 (1112) HANWHA Q CELLS
 Q.PEAK DUO XL-G10.3/BFG 485W
 INVERTERS:
 (2) SOLAREEDGE TECHNOLOGIES SE120KUS (480/277V, 3PH)
 (2) SOLAREEDGE TECHNOLOGIES SE80K-US (480/277V, 3PH)
 OPTIMIZER:
 (558) SOLAREEDGE P1101 POWER OPTIMIZER
 WIND SPEED: 105MPH
 SNOW LOAD: 5PSF
 MINIMUM TEMPERATURE: -8°C
 MAXIMUM TEMPERATURE: 37°C



JH PROFESSIONAL DESIGNS
 TX FIRM: F-26320
 SEALED: 05/16/2024

SOLAR PV PROJECT
 FOR
CTE ENTERTAINMENT, LP COM-41783
 1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
 32.912126, -96.445302

REVISION		
DATE	DESCRIPTION	REV
03/22/2024	PERMIT PLAN	A
05/16/2024	EQUIPMENT UPDATE	B

PROJECT INFORMATION
 NAME: CTE ENTERTAINMENT, LP COM-41783
 ADDRESS: 1290 I-30 FRONTAGE RD, ROCKWALL, TX 75032
 ESI ID: 10443720006363900
 32.912126, -96.445302
 APN: 33829
 AHJ: TX-CITY OF ROCKWALL
 UTILITY: ONCOR
 PRN NUMBER: FMS-CU-2023-1688



ELECTRICAL PLACARDS
 DRAFTED BY/QC'ED BY:
 NAVANEETHAN, C/MANISH A
 SCALE: AS NOTED REV: B
 DATE: 03/22/2024 E-06

