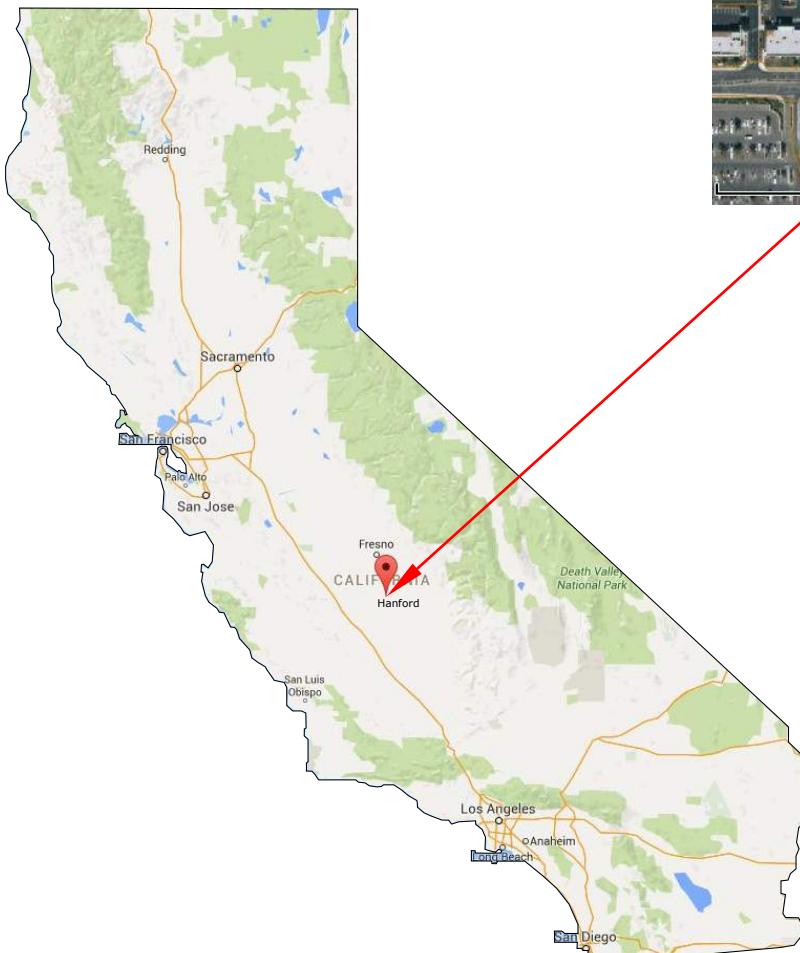


SOLAR PHOTOVOLTAIC SYSTEM

HANFORD MALL - ARRAY 2 HANFORD, CA



SITE INFORMATION

| | |
|-------------------------|-----------|
| Site Latitude | 36° 20' N |
| Occupancy Group | II |
| Zoning District | C-2 |
| Flood Zone | X |
| Exposure Category | 1 C |
| Seismic Design Category | D |

SYSTEM SPECIFICATIONS

| | |
|---------------------------|--------------|
| Cold Design Temperature | 23° F |
| Max Operating Temperature | 131° F |
| Total # of Inverters | 20 |
| Total # of Modules | 2,768 |
| TOTAL DC SYSTEM SIZE | 802.72 kW DC |
| Nominal AC Output Power | 662 kW AC |

GENERAL CONTRACTOR

BRIGHT POWER INC
DBA BPI
PO BOX 10637
NAPA, CA 94581
info@bpi-power.com
PHONE: (707) 252-9990
FAX: (707) 252-9992
WWW.BPI-POWER.COM
LICENSE NUMBER 930054
LICENSE CLASSIFICATION: A, C10

PROPERTY OWNER

PASSCO DIVERSIFIED II HM LC
1675 WEST LACEY BLVD
HANFORD, CA 93230
PHONE: (559)-583-1200 x 203

ELECTRICAL ENGINEER

HIMANSHU BHARTIYA, ME, EE, FPE, LEED AP
SACRAMENTO ENGINEERING CONSULTANTS
10555 OLD PLACERVILLE ROAD
SACRAMENTO, CA 95827
himanshu@saceng.com
PHONE: (916) 368-4468 ext. 105
FAX: (916) 368-4490

STRUCTURAL ENGINEER

JESSYCA COCHRAN, PE
JVC ENGINEERING
303 POST ST
NAPA, CA 94559
jvcstructural@yahoo.com
PHONE: (805) 801-9915

SCOPE OF WORK

THE PROJECT IS TO INSTALL A NEW PHOTOVOLTAIC SYSTEM.
ALL CONSTRUCTION SHALL COMPLY WITH THE CODES ADOPTED BY THE CITY
OF HANFORD, CA AS DESCRIBED IN
<http://www.ci.hanford.ca.us/depts/cd/building/codes/default.asp> INCLUDING
BUT NOT LIMITED TO 2013 CEC & 2013 CBC.

THE SYSTEM CONSISTS OF FLAT ROOF FIXED TILT SOLAR ARRAYS, PITCHED
METAL ROOF FLUSH MOUNT SOLAR ARRAYS, AND ASSOCIATED POWER
CONDITIONING EQUIPMENT.

THE SYSTEM WILL BE INTERCONNECTED TO AND WILL BE OPERATING IN
PARALLEL WITH THE ELECTRICAL UTILITY GRID PER THE REQUIREMENTS OF
SCE AND THE 2013 CEC.

SHEET INDEX

| | |
|--------|---|
| PV0 | TITLE SHEET |
| PV0.1 | PROJECT DETAILS |
| PV0.2 | PLOT PLAN |
| PV0.3 | ARRAY BREAKDOWN |
| PV0.4A | EXISTING SITE CONDITIONS |
| PV0.4B | EXISTING SITE CONDITIONS |
| PV0.5A | MODULE LAYOUT OVERVIEW |
| PV0.5B | MODULE LAYOUT OVERVIEW |
| PV0.6A | SEARS ARRAY DIMENSIONS & INVERTER FOOTPRINTS |
| PV0.6B | MID ROOF ARRAY DIMENSIONS & INVERTER FOOTPRINTS |
| PV0.7A | SEARS - ROOF ATTACHMENT LAYOUT |
| PV0.7B | MID ROOF - ROOF ATTACHMENT LAYOUT |
| PV1.0A | PHOTOVOLTAIC KEY PLAN |
| PV1.0B | PHOTOVOLTAIC SITE PLAN |
| PV1.1 | ROOF-ARRAY PV PLAN |
| PV1.2 | ROOF-ARRAY PV PLAN |
| PV1.3 | ROOF-ARRAY PV PLAN |
| PV1.4 | METER-AREA PLAN |
| PV2.1A | SINGLE-LINE DIAGRAM |
| PV2.1B | SINGLE-LINE DIAGRAM |
| PV2.1C | SINGLE-LINE DIAGRAM |
| PV3.1 | PV DETAILS |
| PV4.1 | PV SIGNAGE |
| S1.0 | RACKING DETAILS |



PASSCO DIVERSIFIED II HM LC - HANFORD MALL
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

PVO

TITLE SHEET

DATE: 5-25-16

BY: JB

JOB NO.: C15-710

| | | | |
|---|---------|---|----|
| 1 | 6/20/16 | Updated code ref., deleted "prelim. approval" | JB |
| 2 | 7/7/16 | Added sheets to sheet index | JB |
| | | | BY |
| | | | |
| | | | |

| GENERAL NOTES | | 8. | REFILL AND RESTORE THE WORK AS DIRECTED, DURING CONSTRUCTION AND PRIOR TO PROJECT COMPLETION, TO MAINTAIN ACCEPTABLE SURFACE CONDITIONS. | 17. | ALL CONSTRUCTION AND MATERIAL DELIVERY VEHICLES SHALL USE THE <u>SITE CLEARING NOTES (IF APPLICABLE)</u> DESIGNATED ACCESS AND HAUL ROUTE(S) TO THE CONSTRUCTION SITE. ANY DEVIATION IN ROUTE(S) SHALL BE SUBJECT TO OWNER'S APPROVAL. THE ROUTE(S) SHALL BE MONITORED DURING THE PROJECT FOR ANY DAMAGE AND DEBRIS ATTRIBUTABLE TO THE PROJECT VEHICLES. ALL DAMAGE AND DEBRIS AS A RESULT OF THE PROJECT SHALL BE REPAIRED TO EXISTING STANDARDS. | 1. | PROTECT FROM DAMAGE AND PRESERVE TREES, SHRUBS, AND OTHER PLANTS OUTSIDE THE LIMITS OF WORK AND WITHIN THE LIMIT OF THE WORK WHICH ARE DESIGNATED TO REMAIN UNDISTURBED. | JB | | |
|--|------------------|----------------------|--|-----------------|---|--------------|---|--------------|---|--------------|
| 1. ALL CONSTRUCTION SHALL COMPLY WITH THE CODES ADOPTED BY THE CITY OF HANFORD, CA AS DESCRIBED IN http://www.ci.hanford.ca.us/depts/cd/building/codes/default.asp INCLUDING BUT NOT LIMITED TO 2013 CEC & 2013 CBC. | | 9. | ALL ADDITIONAL MATERIALS REQUIRED SHALL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER. | 10. | UNLESS SHOWN OR SPECIFIED OTHERWISE, ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE IBC, AND ANY OTHER CODES, REQUIREMENTS OR STANDARDS REQUIRED BY THE INSPECTING AGENCY AND AUTHORITIES HAVING JURISDICTION (AHJ). | 18. | CONDUCT OPERATION ENTIRELY WITHIN THE PROJECT AREAS INDICATED IN THESE DRAWINGS. | 2. | REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVAL INCLUDES DIGGING OUT STUMPS AND OBSTRUCTIONS AND GRUBBING ROOTS. | |
| 2. BEFORE INITIATING ANY WORK, THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORDS OF ANY DISCREPANCIES IDENTIFIED ON EXISTING CONDITIONS, STRUCTURE, ELECTRICAL, ETC. | | 11. | ANY WORK BEGUN PRIOR TO ATTAINING APPROVAL AND SIGNATURES OF AHJ WILL BE AT CONTRACTOR'S RISK, AND WILL ONLY BE ALLOWED IF PRE-APPROVED BY PROJECT OWNER. | 19. | WHERE ANY WORK IS BEING DONE IN AN OFF-SITE EASEMENT, NOTIFY THE PROPERTY OWNER TWO WORKING DAYS PRIOR TO COMMENCING WORK WITHIN SAID EASEMENT. | 3. | FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SOIL MATERIAL APPROVED BY OWNER, UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED. | | | |
| 4. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL MANUFACTURER'S OR ENGINEER'S DIRECTIONS AND INSTRUCTIONS. | | 12. | COORDINATE OPERATIONS WITH ALL REQUIRED MATERIALS TESTING SERVICES AS REQUIRED BY THESE DRAWINGS. EACH PHASE OF CONSTRUCTION SHALL BE TESTED AND APPROVED BY AHJ AS REQUIRED PRIOR TO PROCEEDING TO SUBSEQUENT PHASES. | 20. | DO NOT DISPOSE OF CHLORINATED OR OTHER CHEMICALLY TREATED OR POLLUTED WATER INTO ANY DRAINAGE SYSTEM OR TO AREA SOILS. | 4. | STRIP TOPSOIL WHERE REQUIRED. STOCKPILE IN AREA APPROVED BY OWNER. | | | |
| 5. CONTRACTOR IS ADVISED THAT ALL DRAWINGS, COMPONENT MANUALS, ESPECIALLY INVERTER MANUALS, ARE TO BE READ AND UNDERSTOOD PRIOR TO INSTALLATION OR ENERGIZING OF ANY EQUIPMENT. | | 13. | NOTIFY ALL UTILITY COMPANIES INVOLVED IN THE DEVELOPMENT PRIOR TO BEGINNING OF WORK. | 14. | ELECTRICAL NOTES | 5. | WITH OWNER'S APPROVAL, REMOVE EXISTING ABOVE AND BELOW GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. | | | |
| 6. CONTRACTOR IS RESPONSIBLE FOR SELECTING AND PURCHASING EQUIPMENT THAT WILL LAST THE LIFETIME OF THE PV SYSTEM; ALL ENCLOSURES, CONDUITS, STRAPS, PAINTED METAL SURFACES, CONCRETE, GROUNDING EQUIPMENT AND OTHER EQUIPMENT AND OTHER PRODUCTS SHALL BE SELECTED TO LAST THE LIFECYCLE OF THE PHOTOVOLTAIC SYSTEM. | | 15. | COMPLY WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ALL JURISDICTIONAL BODIES. PROVIDE AND MAINTAIN ALL BARRICADES, SAFETY DEVICES, AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA. FOR ALL TRENCH EXCAVATION 5 FEET OR MORE IN DEPTH, OBTAIN PERMITS PRIOR TO BEGINNING ANY EXCAVATION. | 1. | SOLAR MODULES ARE ENERGIZED WHEN EXPOSED TO LIGHT. THE LINE AND LOAD TERMINALS ON THE DC DISCONNECTS MAY BE ENERGIZED IN THE OPEN POSITION. SWITCH IS TO BE LABELED TO COMPLY WITH ARTICLE 690.17 OF THE NEC. | 6. | DISPOSE OF REMOVED TREES, BRUSH, STUMPS, ROOTS AND ORGANIC DEBRIS IN A LEGAL MANNER OFF THE SITE. | | | |
| 7. WHENEVER ANY SURFACE IMPROVEMENTS SUCH AS PAVEMENT, CURBING, PEDESTRIAN WALKS, FENCING, OR TURFING HAVE BEEN REMOVED, DAMAGED, OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS; THEY SHALL BE REPAIRED OR REPLACED TO THE PRE-EXISTING CONDITION. THE REPAIRS ARE TO MEET THE OWNER'S SATISFACTION. | | 16. | MAINTAIN CONTINUOUS TEMPORARY TRAFFIC BARRICADES, WITH OPERABLE FLASHING DEVICES, SPACED AT INTERVALS OF NOT TO EXCEED 50 FEET WHENEVER THE WORK AREA IS ADJACENT TO AN EXISTING TRAFFIC LANE AND THERE IS A PAVEMENT CUT, TRENCH, OR DITCH WHICH IS OVER 2 INCHES IN DEPTH, OR IF THE TRAFFIC LANE USED BY VEHICLES IS NOT PAVED. IF THE CUT, TRENCH OR DITCH IS MORE THAN 10 FEET FROM A TRAFFIC LANE, THEN THE BARRICADE SPACING MAY BE GREATER, PROVIDED THAT IT DOES NOT EXCEED 200 FEET. | 3. | CONTRACTOR SHALL PERFORM INITIAL HARDWARE CHECKS AND PV/WIRING CONDUCTIVITY CHECKS PRIOR TO TERMINATING ANY WIRES. | 1. | RECORD DRAWINGS | | | |
| | | 17. | CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. | 5. | THE ELECTRICAL CONTRACTOR IS REQUIRED TO USE PERMANENTLY COLOR CODED INSULATION AND PROVIDE A COLOR CODE TO IDENTIFY DC AND AC CIRCUITS AND IN ACCORDANCE WITH NEC. | 2. | KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS FOR THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. | | | |
| | | 18. | ALL SCE-REQUIRED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT SCE STANDARDS. | 6. | IN EVERY PULL BOX, TERMINAL BOX, AND AT ALL PLACES WHERE WIRES MAY NOT BE READILY IDENTIFIED BY NAMEPLATE MARKINGS ON THE EQUIPMENT TO WHICH THEY CONNECT, IDENTIFY EACH CIRCUIT WITH A PLASTIC LABEL OR TAG FOR NUMBER, POLARITY, OR PHASE. | 1. | RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS AT THE SITE. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO OWNER PRIOR TO SUBSTANTIAL COMPLETION AT SITE. | | | |
| PV MODULE INFO | MFG | ET Solar | | 19. | PASSCO DIVERSIFIED II HM LC - HANFORD MALL | 20. | ARRAY 2 | PVO.1 | PROJECT DETAILS | |
| | Model | ET-M660290WB/WW 290W | | 21. | 1675 W. LACEY BLVD | 22. | | | | |
| | STC Rating | 290 W | | 23. | HANFORD, CA 93230 | 24. | | | | |
| | Vmp | 32.12 V | | 25. | APN: 011-060-038 | 26. | | | | |
| | Imp | 9.03 A | | 27. | | 28. | | | | |
| | Voc | 39.68 V | | 29. | | 30. | | | | |
| | Isc | 9.59 A | | 31. | | 32. | | | | |
| | Voc temp. coeff. | -0.31%/°C | | 33. | | 34. | | | | |
| | Isc temp. coeff. | 0.02%/°C | | 35. | | 36. | | | | |
| Inverters | | Inverter #1-#12 | Inverter #13 | Inverter #14 | Inverter #15 | Inverter #16 | Inverter #17 | Inverter #18 | Inverter #19 | Inverter #20 |
| Manufacturer | | Solectria | Solectria | Solectria | Solectria | Solectria | Solectria | Solectria | Solectria | Solectria |
| Model | | PVI-36TL | PVI-23TL | PVI-36TL | PVI-36TL | PVI-28TL | PVI-28TL | PVI-23TL | PVI-28TL | PVI-28TL |
| Voltage AC | | 480 | 480 | 480 | 480 | 480 | 480 | 480 | 480 | 480 |
| Nominal AC Output Power | | 36 kW | 23 kW | 36 kW | 36 kW | 28 kW | 28 kW | 23 kW | 28 kW | 28 kW |
| CEC efficiency | | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% |
| Number of Strings/inverter | | 7 | 4 | 4 3 | 4 3 | 6 | 6 | 3 | 6 | 6 |
| Number of Panels/string | | 22 | 22 | 20 20 | 20 22 | 20 | 20 | 22 | 20 | 20 |
| Number of Panels/inverter | | 154 | 88 | 140 | 146 | 120 | 120 | 66 | 120 | 120 |
| STC DC subsystem size | | 535.92 kW | 25.52 kW | 40.60 kW | 42.34 kW | 34.80 kW | 34.80 kW | 19.14 kW | 34.80 kW | 34.80 kW |
| PV Module Azimuth | | 227° | 227° | 227° 137° | 227° 227° | 227° | 227° | 137° | 227° | 227° |
| PV Module Tilt | | 10° | 10° | 10° 30° | 30° 30° | 10° | 10° | 30° | 10° | 30° |
| Racking MFG | | Renusol | Renusol | Renusol | Renusol | Renusol | Renusol | Renusol | Renusol | Renusol |
| Array Location | | Sears | Sears | Mid 1 Metal 1 | Metal 2 & 3 | Mid 2 | Mid 3 | Metal 4 | Mid 4 | Metal 5 |



PASSCO DIVERSIFIED II HM LC - HANFORD MALL
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

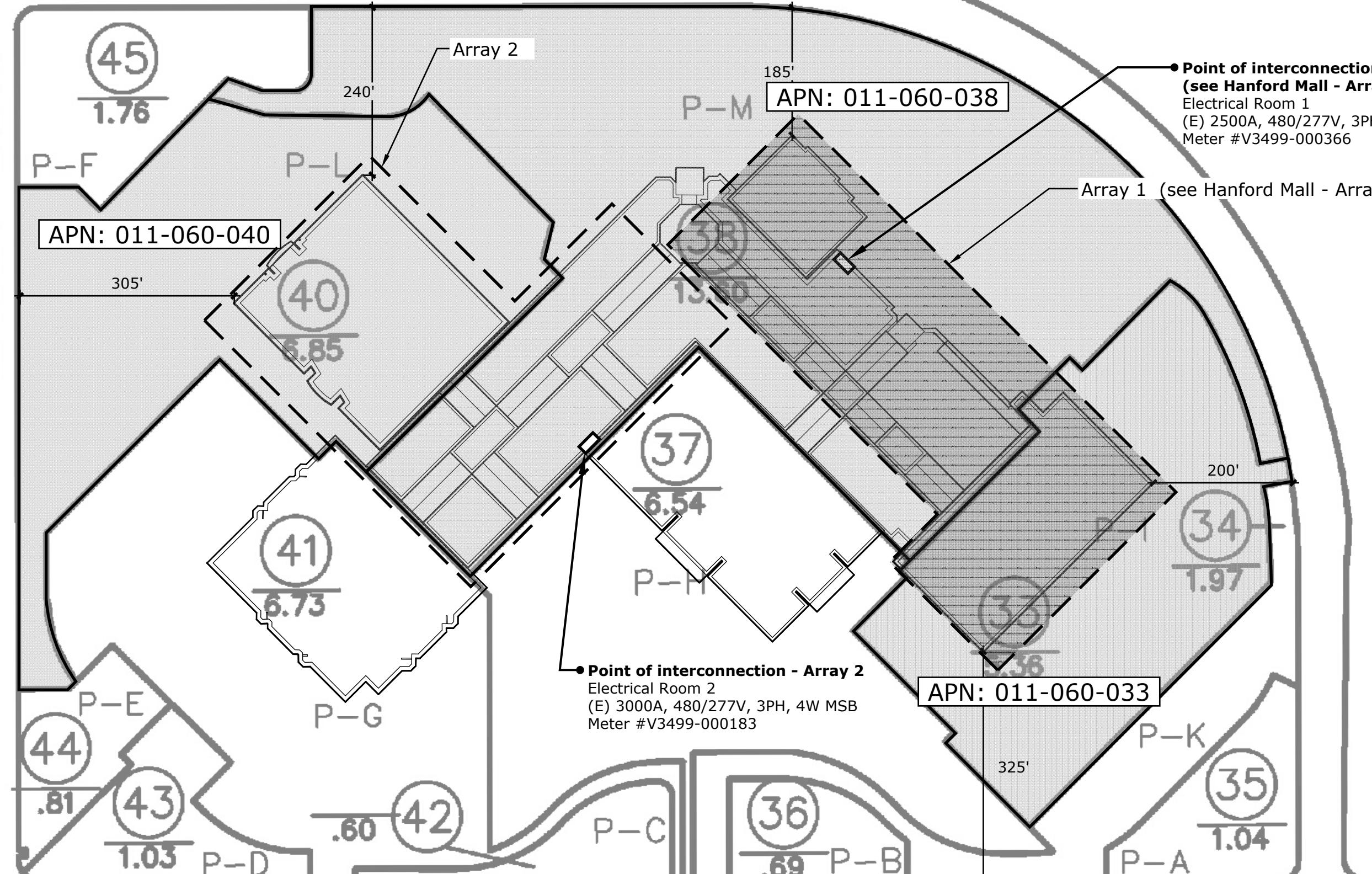
ARRAY 2

PVO.1
PROJECT DETAILS

DATE: 5-25-16
BY: JB
JOB NO.: C15-710

LACEY BLVD.

HANFORD MALL DRIVE



Scale: 1" = 150'

00 150 300



PASSCO DIVERSIFIED II HM LC - HANFORD MALL
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

PV0.2
PLOT PLAN

DATE: 5-25-16

BY: JB

JOB NO.: C15-710



BP1

PO BOX 10637
NAPA, CA 94581
PH: (707)-252-9990

1 6/20/16 Deleted 'prelim. approval'
REV. NO. REV. DATE

JB
BY

ELECTRICAL ROOM 2:

Sears

Mid 1, Mid 2, Mid 3, Mid 4

Metal 1, Metal 2, Metal 3, Metal 4, Metal 5

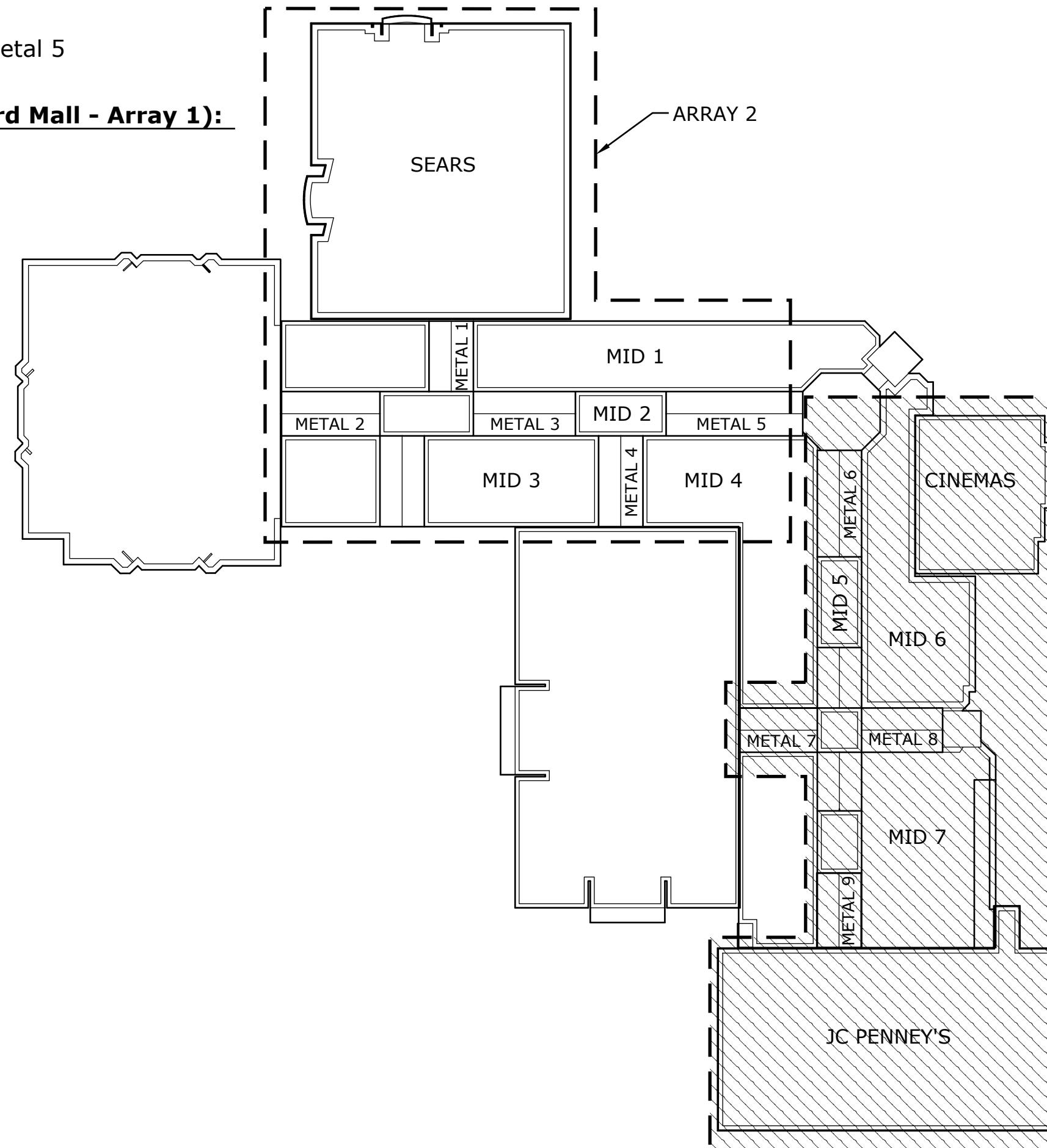
ELECTRICAL ROOM 1 (see Hanford Mall - Array 1):

JC Penney's

Cinemas

Mid 5, Mid 6, Mid 7

Metal 6, Metal 7, Metal 8, Metal 9



ARRAY 1
(see Hanford Mall - Array 1)



PASSCO DIVERSIFIED II HM LC - HANFORD MALL
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

PV0.3

Array
Breakdown

DATE: 5-25-16

BY: JB

JOB NO.: C15-710

| | | | |
|---|---------|----------------------------|----|
| 1 | 6/20/16 | Deleted "prelim. approval" | JB |
| | | | |
| | | | |
| | | | |
| | | | |

BP1



PO BOX 10637
NAPA, CA 94581
PH: (707)-252-9990

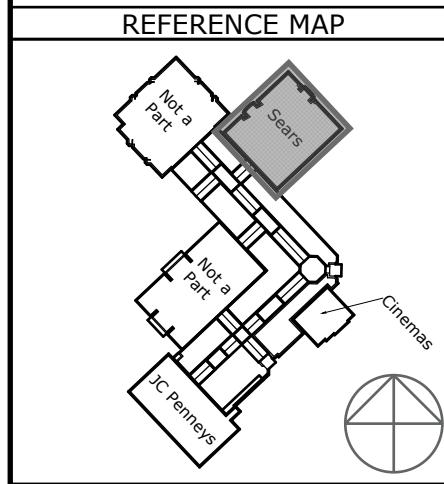
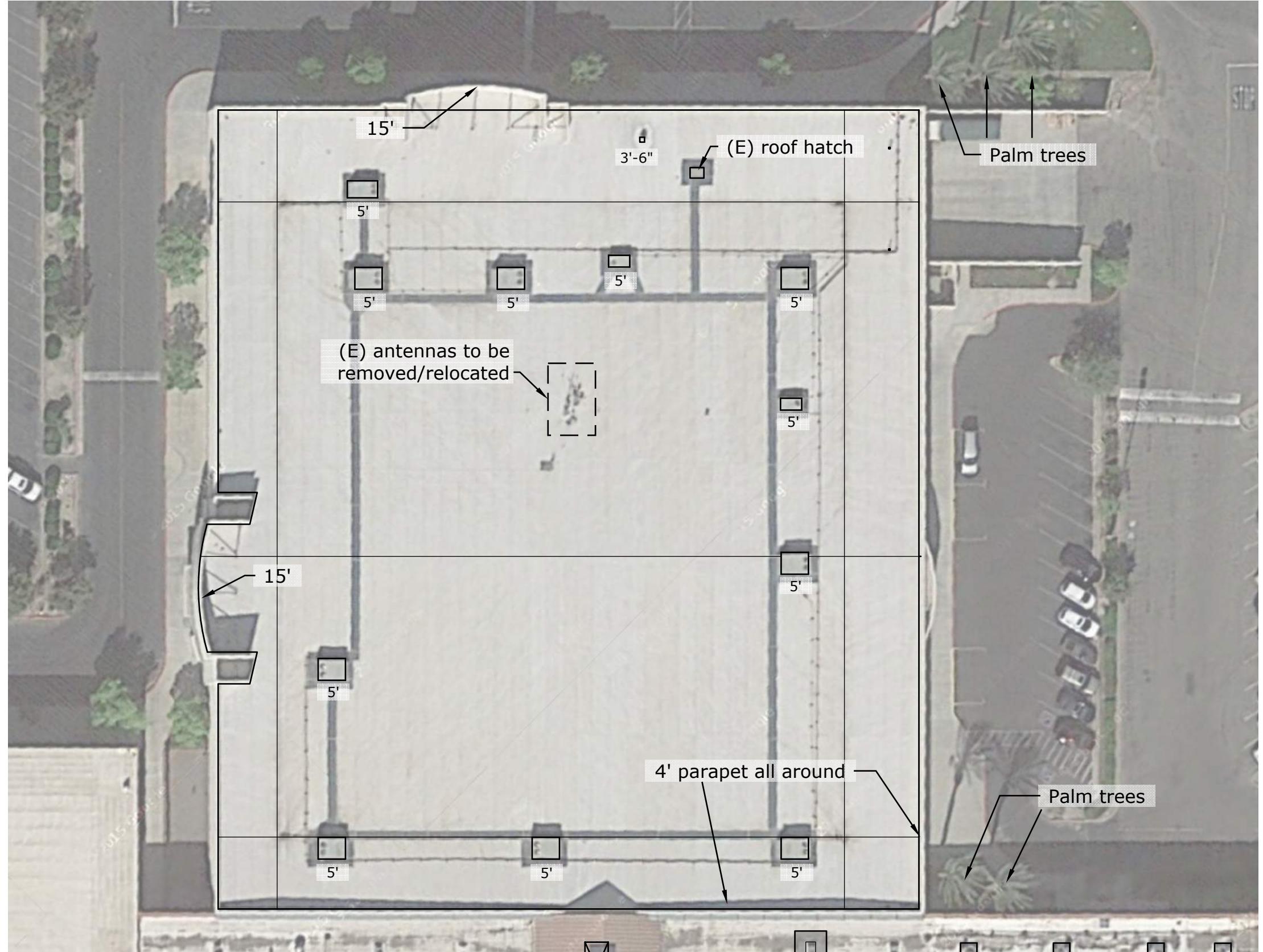
1

6/20/16

Deleted "prelim. approval"

JB

BY



Scale: 1" = 40'

00 40 80



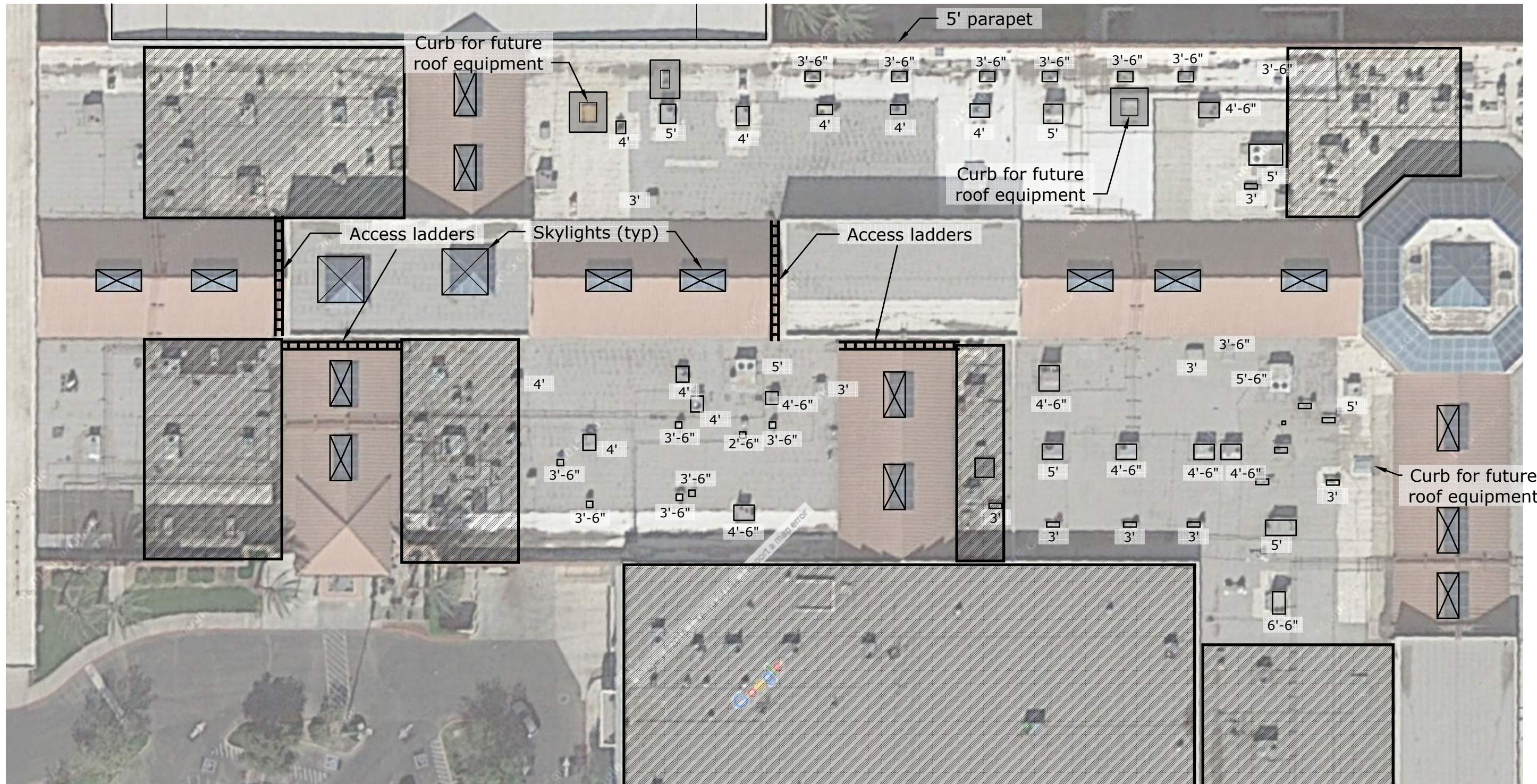
PASSCO DIVERSIFIED II HM LC - HANFORD MALL
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

ARRAY 2

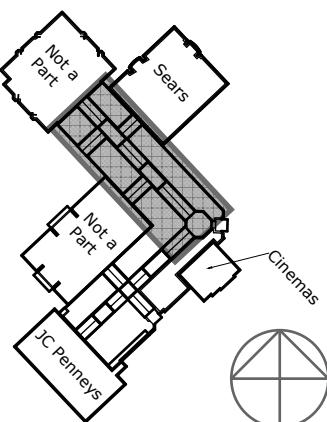
PVO.4A
EXISTING SITE
CONDITIONS

| | |
|----------|---------|
| DATE: | 5-25-16 |
| BY: | JB |
| JOB NO.: | C15-710 |

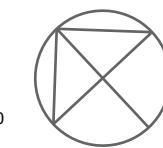
| | | |
|--|-----------|----------------------------|
| 1 | 6/20/16 | Deleted 'prelim. approval' |
| JB | | |
| BP1 | | |
| PO BOX 10637 NAPA, CA 94581 PH: (707)-252-9990 | | |
| REV. NO | REV. DATE | |



REFERENCE MAP



Scale: 1" = 40'

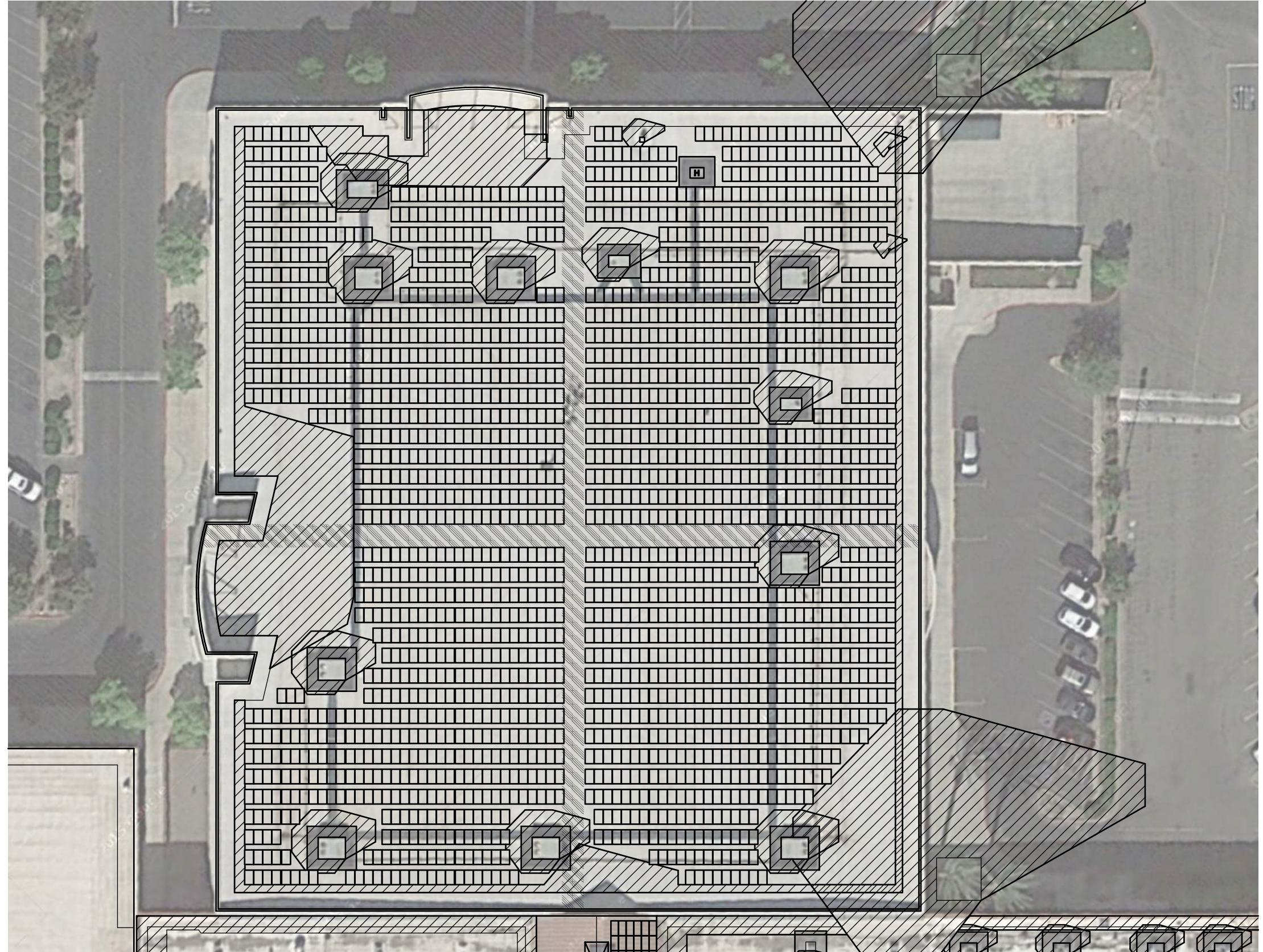


PV0.4B

EXISTING SITE CONDITIONS

PASSCO DIVERSIFIED III HM LC
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038
ARRAY 2





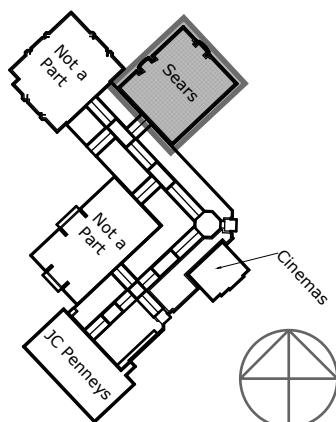
 : Shading Setback
 : 4' Equipment Access Perimeter
 : Fire Access Walkways

Scale: 1" = 40'

00 40 80



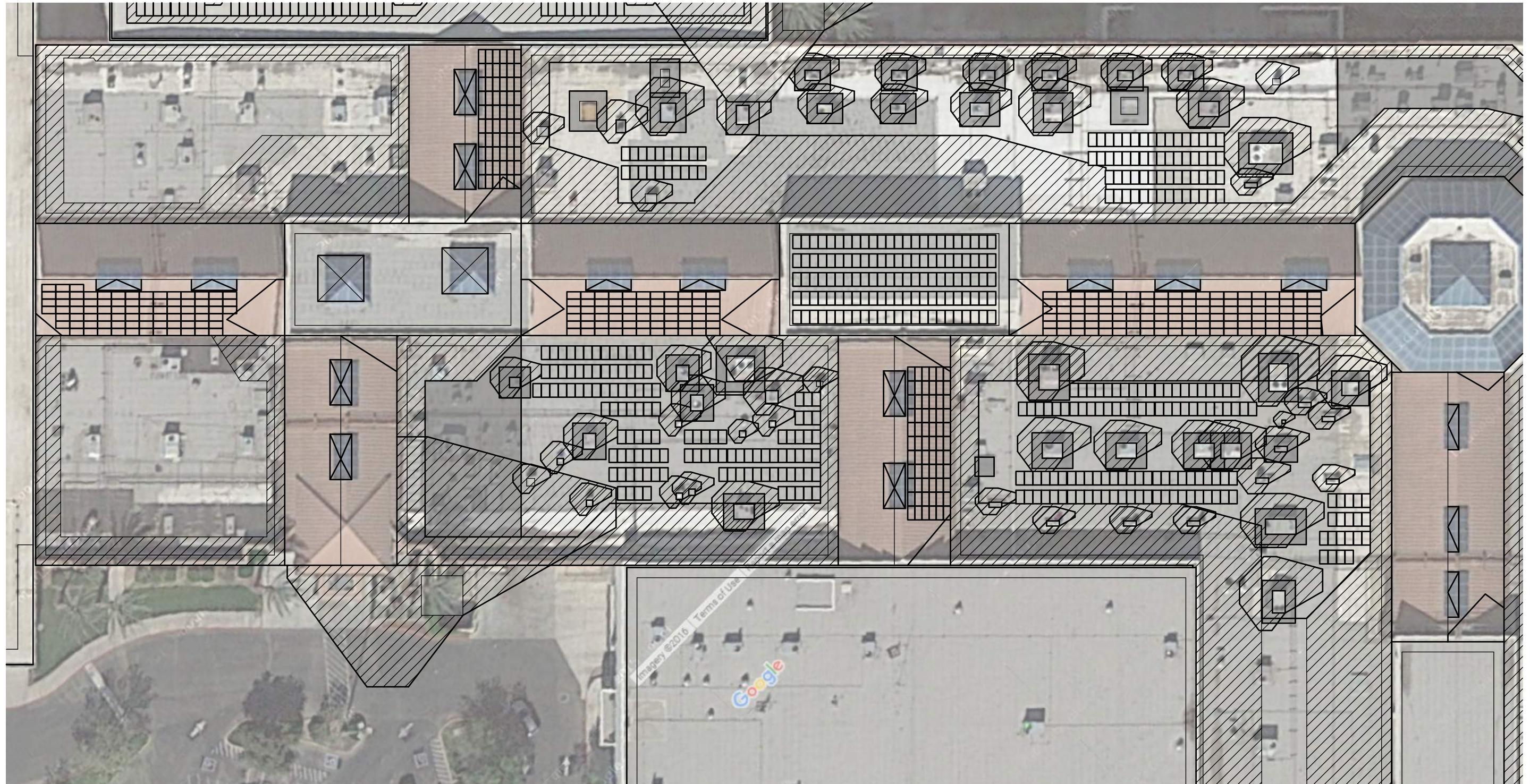
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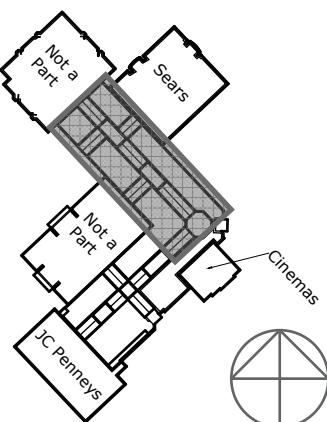
PASSCO DIVERSIFIED II HM LC - HANFORD MALL
11675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

PV0.5A
MODULE LAYOUT OVERVIEW
BRIGHT POWER, INC. DBA BPI
LICENSED CONTRACTOR
CLASSIFICATION A C-10
LICENSE NO. 930054
DATE: 5-25-16
BY: JB
JOB NO.: C15-710

| | | | | |
|--------------------|---------|-----------|----------------------------|----|
| BPi | 1 | 6/20/16 | Deleted "prelim. approval" | JB |
| PO BOX 10637 | | | | |
| NAPA, CA 94581 | | | | |
| PH: (707)-252-9990 | REV. NO | REV. DATE | | |



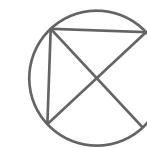
REFERENCE MAP



- : Shading Setback
- : 4' Equipment Access Perimeter
- : Fire Access Walkways

Scale: 1" = 40'

00 40 80



PASSCO DIVERSIFIED II HM LC - HANFORD MALL
11675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

PV0.5B

MODULE
LAYOUT
OVERVIEW

DATE: 5-25-16

BY: JB

JOB NO.: C15-710

| | | | |
|---|---------|----------------------------|----|
| 1 | 6/20/16 | Deleted 'prelim. approval' | JB |
| | | | |



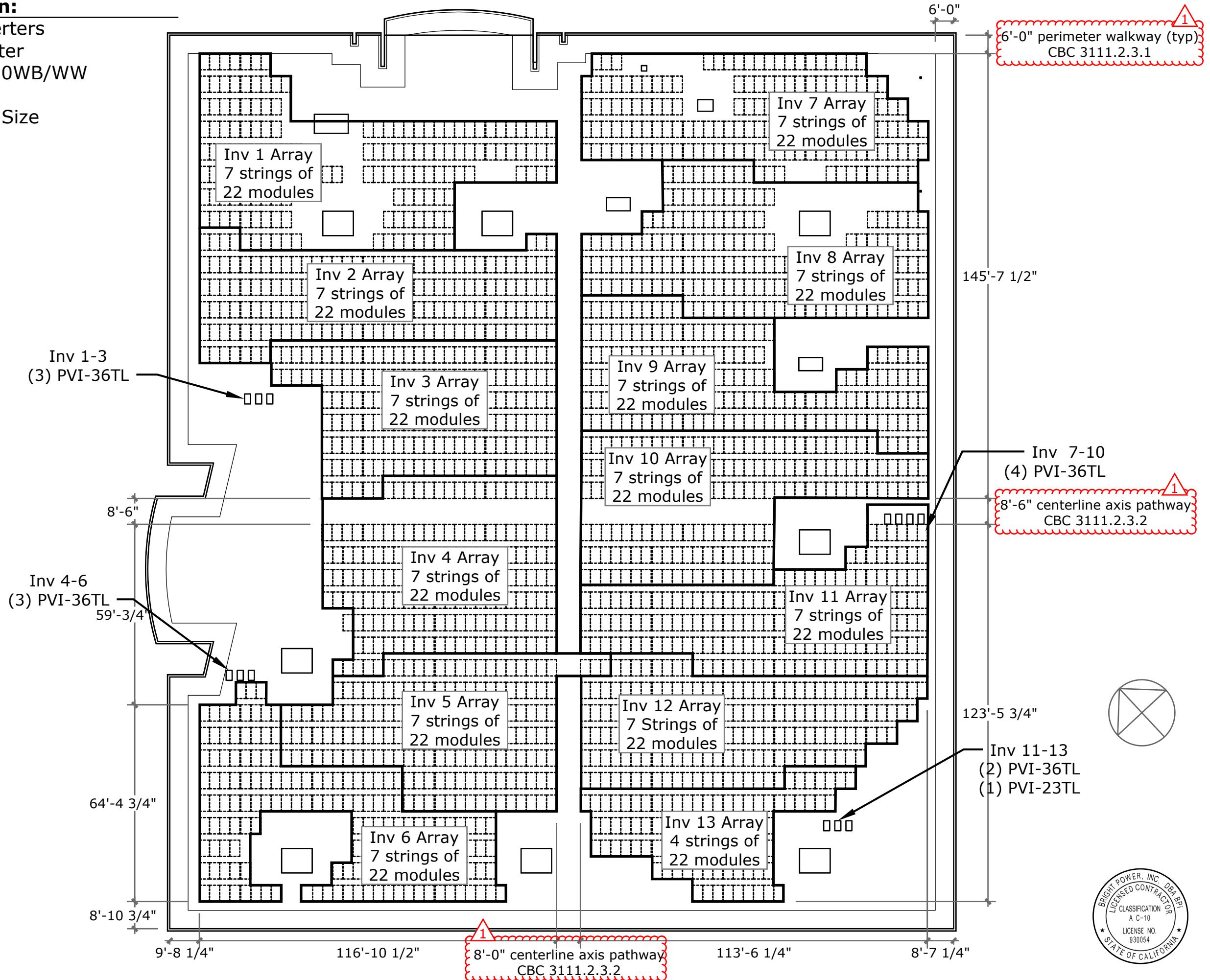
PO BOX 10637
NAPA, CA 94581
PH: (707)-252-9990

REV. NO

REV. DATE

Roof Array Configuration:

12 Solectria PVI-36TL Inverters
 1 Solectria PVI-23TL Inverter
 1,936 ET Solar ET-M660290WB/WW
 290W Modules
 561.44 kW DC Subsystem Size



Roof Array Configuration:

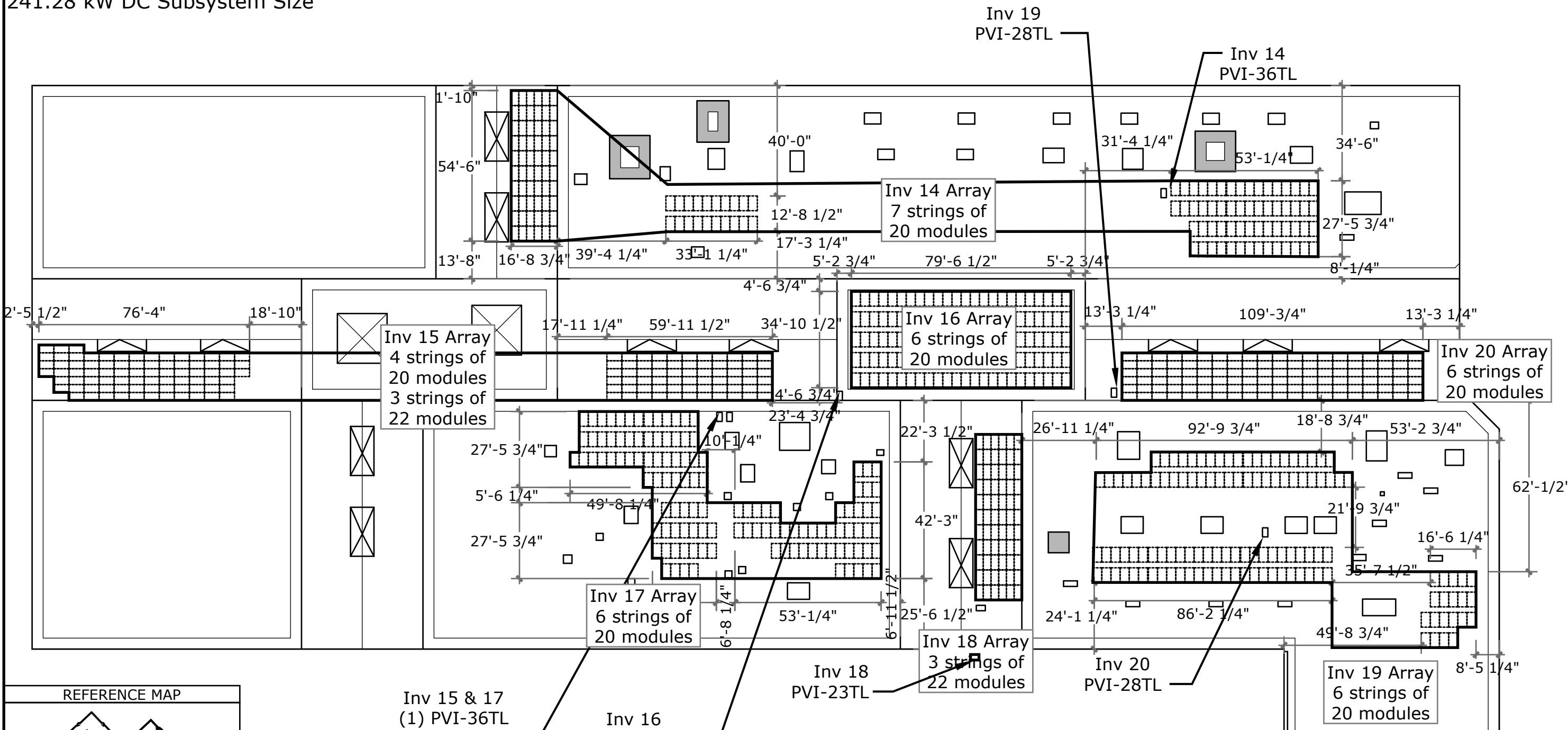
2 Solectria PVI-36TL Inverters

4 Solectria PVI-28TL Inverters

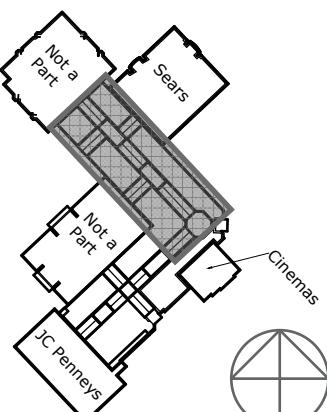
1 Solectria PVI-23TL Inverter

832 ET Solar ET-M660290WB/WW 290W Modules

241.28 kW DC Subsystem Size



REFERENCE MAP



Inv 15 & 17
(1) PVI-36TL
(1) PVI-28TL

Inv 16
PVI-28TL

Inv 18
PVI-28TL

PASSCO DIVERSIFIED II HM LC - HANFORD MALL

11675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

ARRAY 2

PV0.6B
MID ROOF ARRAY
DIMENSIONS &
INVERTER
FOOTPRINTS



DATE: 5-25-16

BY: JB

JOB NO.: C15-710

| | | | |
|---|---------|----------------------------|----|
| 1 | 6/20/16 | Deleted 'prelim. approval' | JB |
| | | | BY |

+ = Roof Attachment

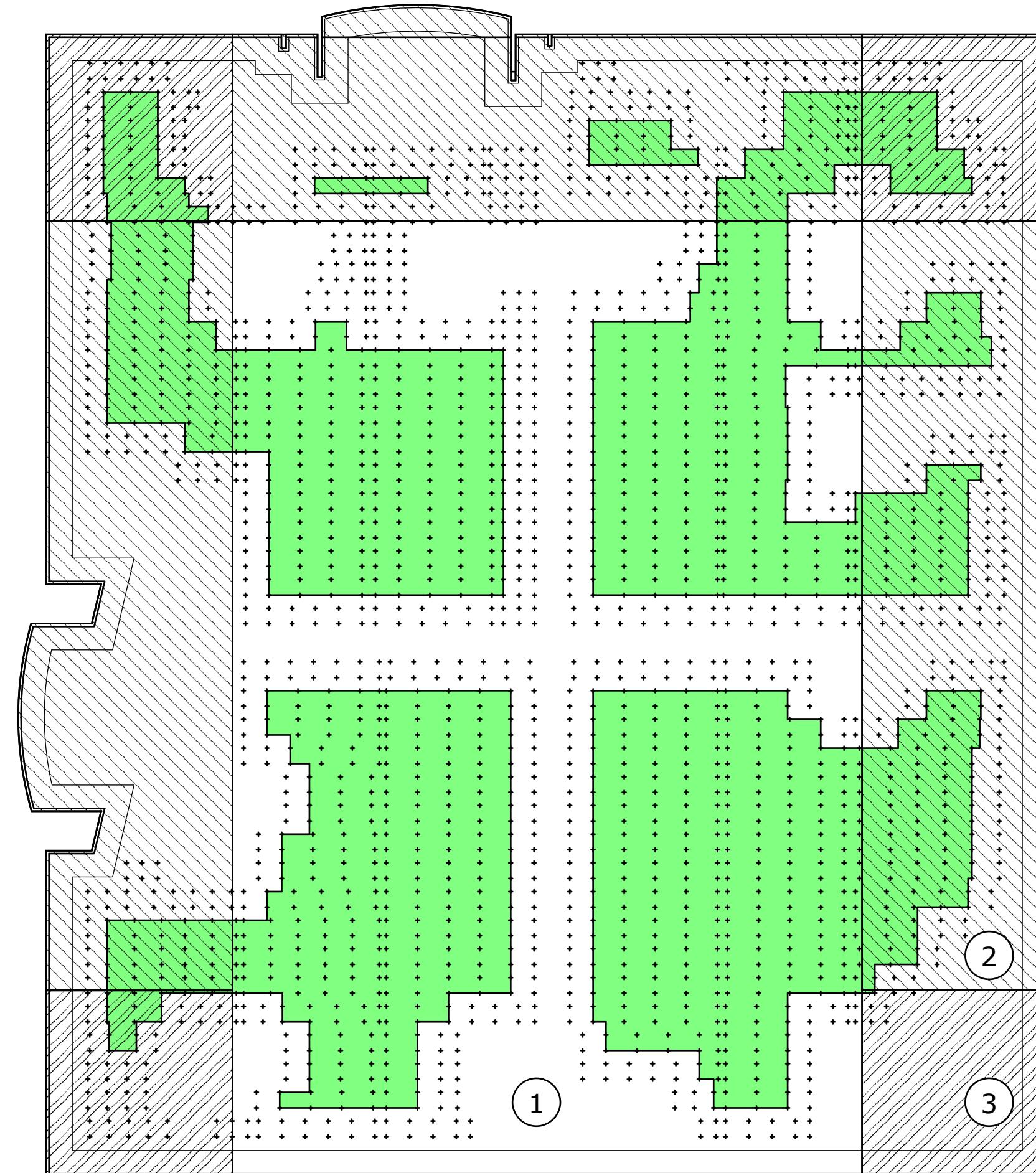
▨ = Wind Zone 3

▨ = Wind Zone 2

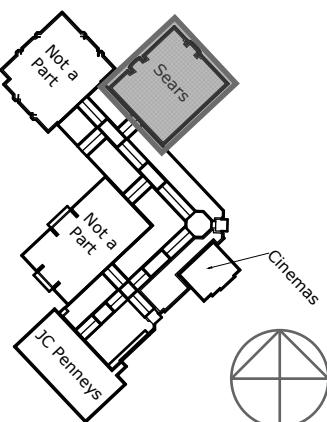
▨ = Wind Zone 1

■ = Sheltered Zone

| Max Rail Spans | | |
|----------------|------|-----------|
| Wind Zone | Edge | Sheltered |
| Zone 3 | 4 ft | 7 ft |
| Zone 2 | 5 ft | 7 ft |
| Zone 1 | 6 ft | 8 ft |
| Zone 0 | 7 ft | 10 ft |



REFERENCE MAP



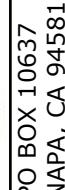
PASSCO DIVERSIFIED II HM LC - HANFORD MALL

1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

ARRAY 2
PV0.7A

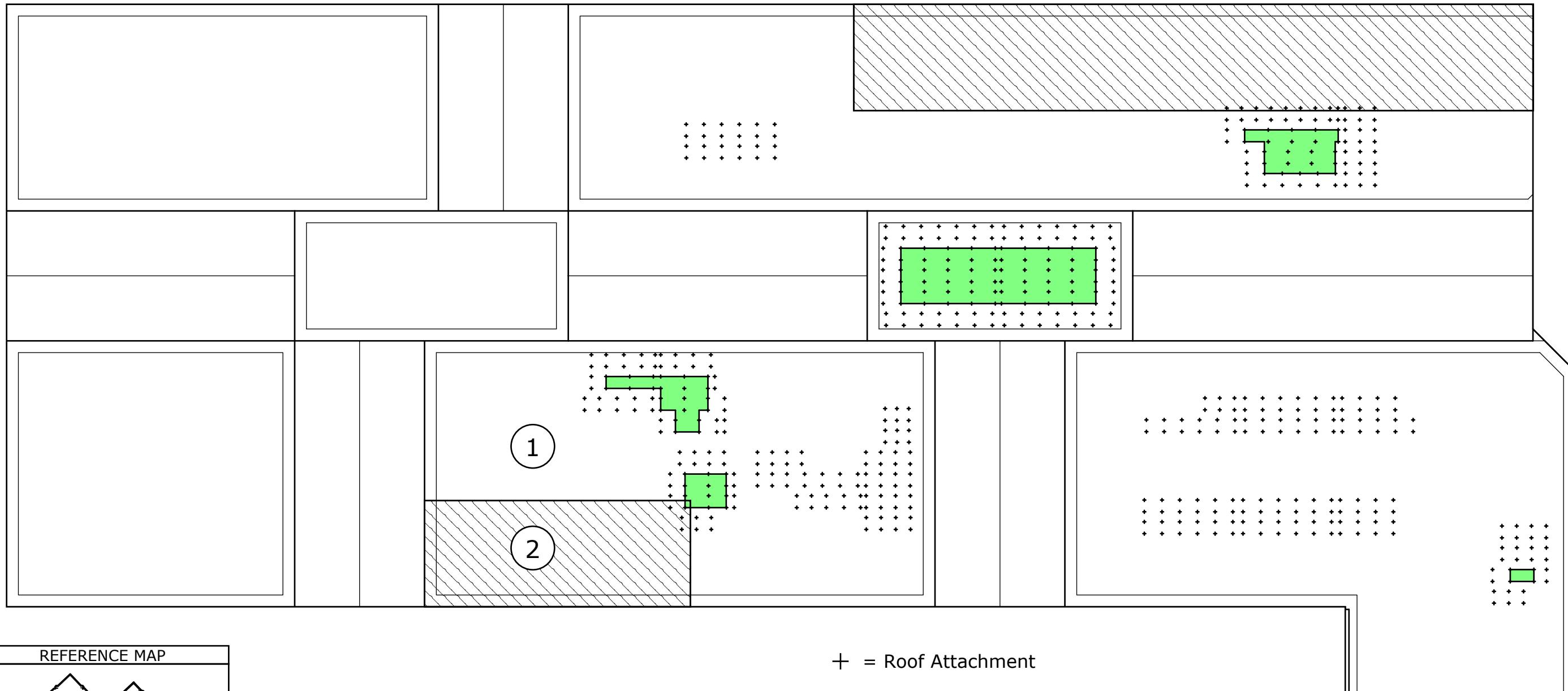
SEARS ROOF
ATTACHMENT
LAYOUT

DATE: 7-7-16
BY: JB
JOB NO.: C15-710

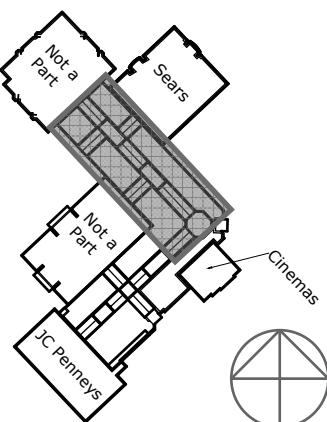


PO BOX 10637
NAPA, CA 94581
PH: (707)-252-9990

BRIGHT POWER, INC. DBA
LICENSED CONTRACTOR
CLASSIFICATION
A C-10
LICENSE NO.
930054
STATE OF CALIFORNIA



REFERENCE MAP



| Max Rail Spans | | |
|----------------|------|-----------|
| Wind Zone | Edge | Sheltered |
| Zone 3 | 4 ft | 7 ft |
| Zone 2 | 5 ft | 7 ft |
| Zone 1 | 6 ft | 8 ft |
| Zone 0 | 7 ft | 10 ft |

- +
 = Roof Attachment

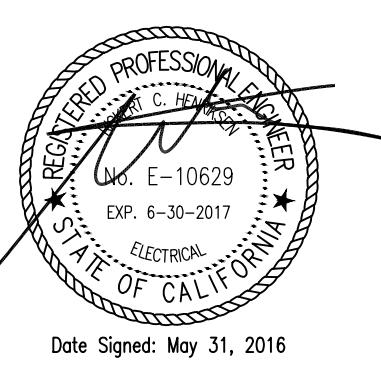
 - = Wind Zone 3
 - = Wind Zone 2
 - = Wind Zone 1
 - = Sheltered Zone



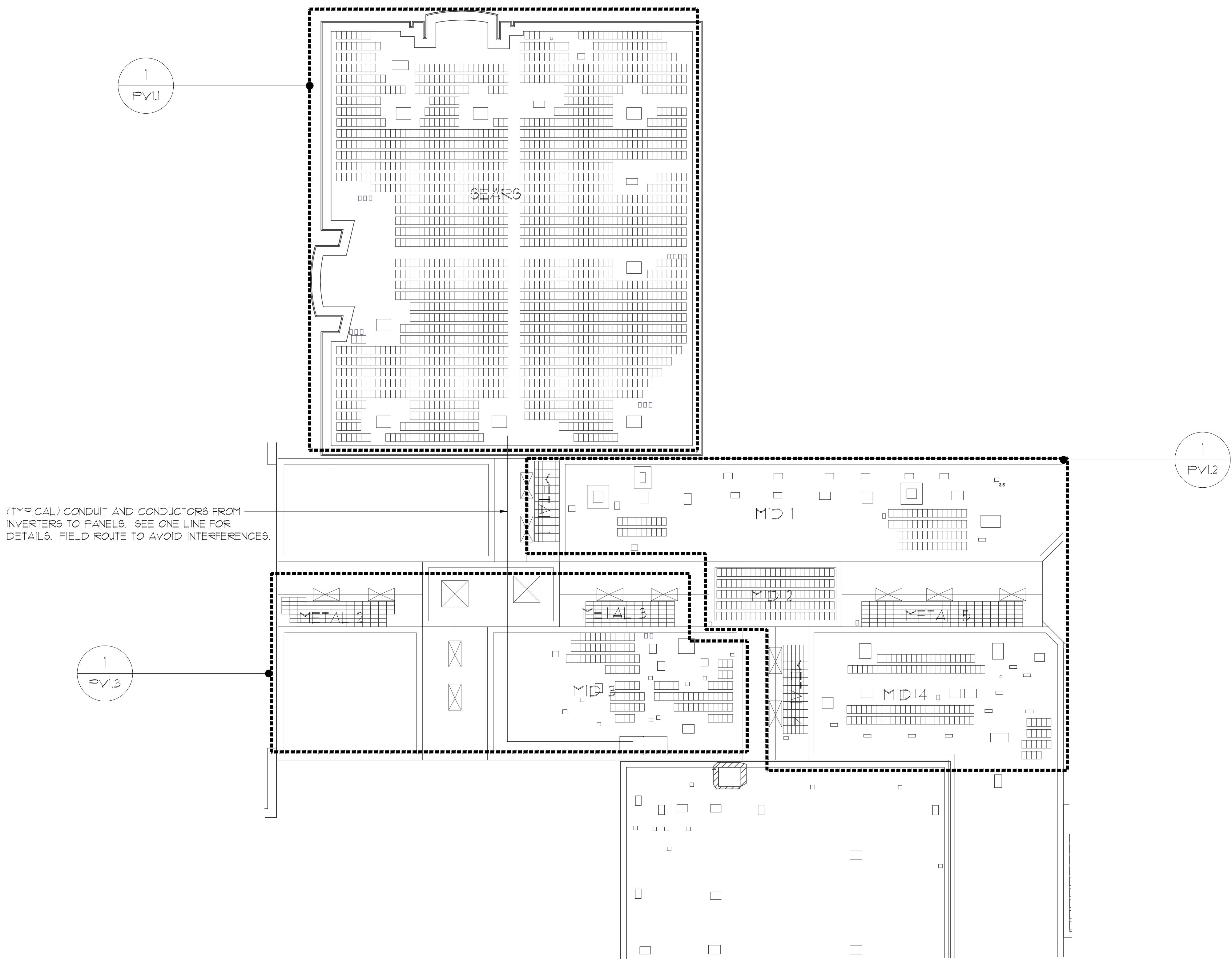
PASSCO DIVERSIFIED II HM LC - HANFORD MALL
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038

ARRAY 2
PVO.7B
MID ROOF ROOF
ATTACHMENT
LAYOUT
DATE: 7-7-16
BY: JB
JOB NO.: C15-710

| | | | |
|--------------------|---------|-----------|--|
| BPi | | | |
| PO BOX 10637 | | | |
| NAPA, CA 94581 | | | |
| PH: (707)-252-9990 | REV. NO | REV. DATE | |



| | | | |
|---|--------------------------|----------|-----------|
|  | BPI | REV. NO. | REV. DATE |
| PASSCO DIVERSIFIED II HM LLC | - HANFORD MALL - ARRAY 2 | | |
| 1675 W. Lacey Blvd, Hanford, CA 93230 | PO BOX 10637 | | |
| APN: 011-060-038 | NAPA, CA 94581 | | |
| | PH: (707) 252-9990 | | |
| PHOTOVOLTAIC KEY PLAN | | | |
| PV1.0A | | | |
| DATE: NOV 2015 | | | |
| JOB NO.: 15922 | | | |

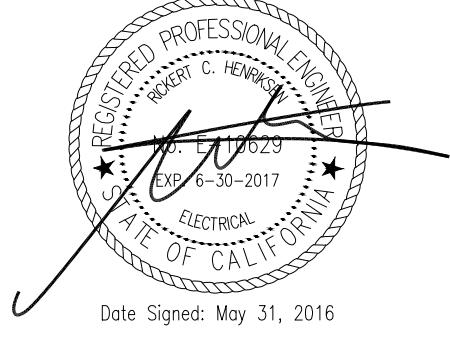


PHOTOVOLTAIC SITE PLAN

SCALE: 1"-40'-0"

1
PV1.0B

N



PASSCO DIVERSIFIED II HM LLC
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1675 W. Lacey Blvd, Hanford, CA 93230
APN: 011-060-038

PHOTOVOLTAIC
SITE
PLAN

PV1.0B

DATE: NOV 2015

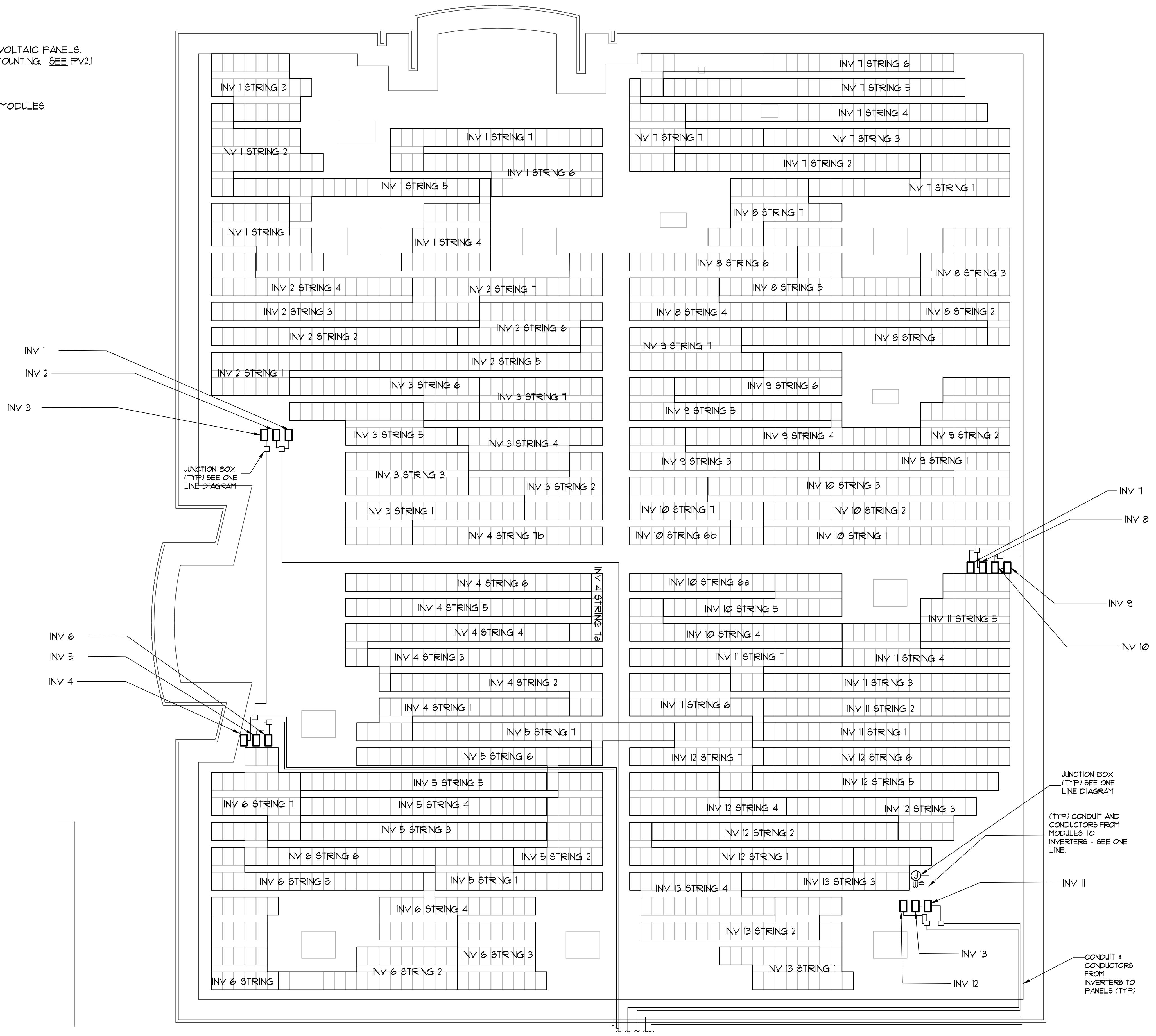
JOB NO.: 15922

BY

1936 ROOF MOUNTED SOLAR PHOTOVOLTAIC PANELS.
SEE STRUCTURAL SUBMITTALS FOR MOUNTING. SEE PV1.I
FOR ELECTRICAL CONNECTIONS.

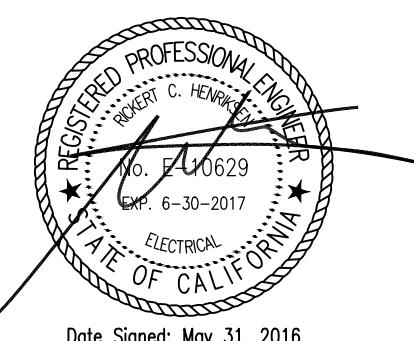
BASIS OF DESIGN:
ET SOLAR ET-M660290UW/WB 290W MODULES
22 MODULES PER STRING
22 STRINGS
(1936) TOTAL PANELS
561.44 KW DC SUBSYSTEM SIZE

P_{MAX} = 290 WATTS
I_{SC} = 9.59A
I_{MP} = 9.03A
V_{MP} = 32.12 Vdc
V_{OC} = 39.68 Vdc



ROOF ARRAY PHOTOVOLTAIC PLAN SEARS

SCALE: 1'-0" - 16'-0"



PASSCO DIVERSIFIED II HM LLC
- HANFORD MALL - ARRAY 2
1675 W. Lacey Blvd, Hanford, CA 93230
APN: 011-060-038

ROOF-ARRAY
PV
PLAN

PV1.1

DATE: NOV 2015

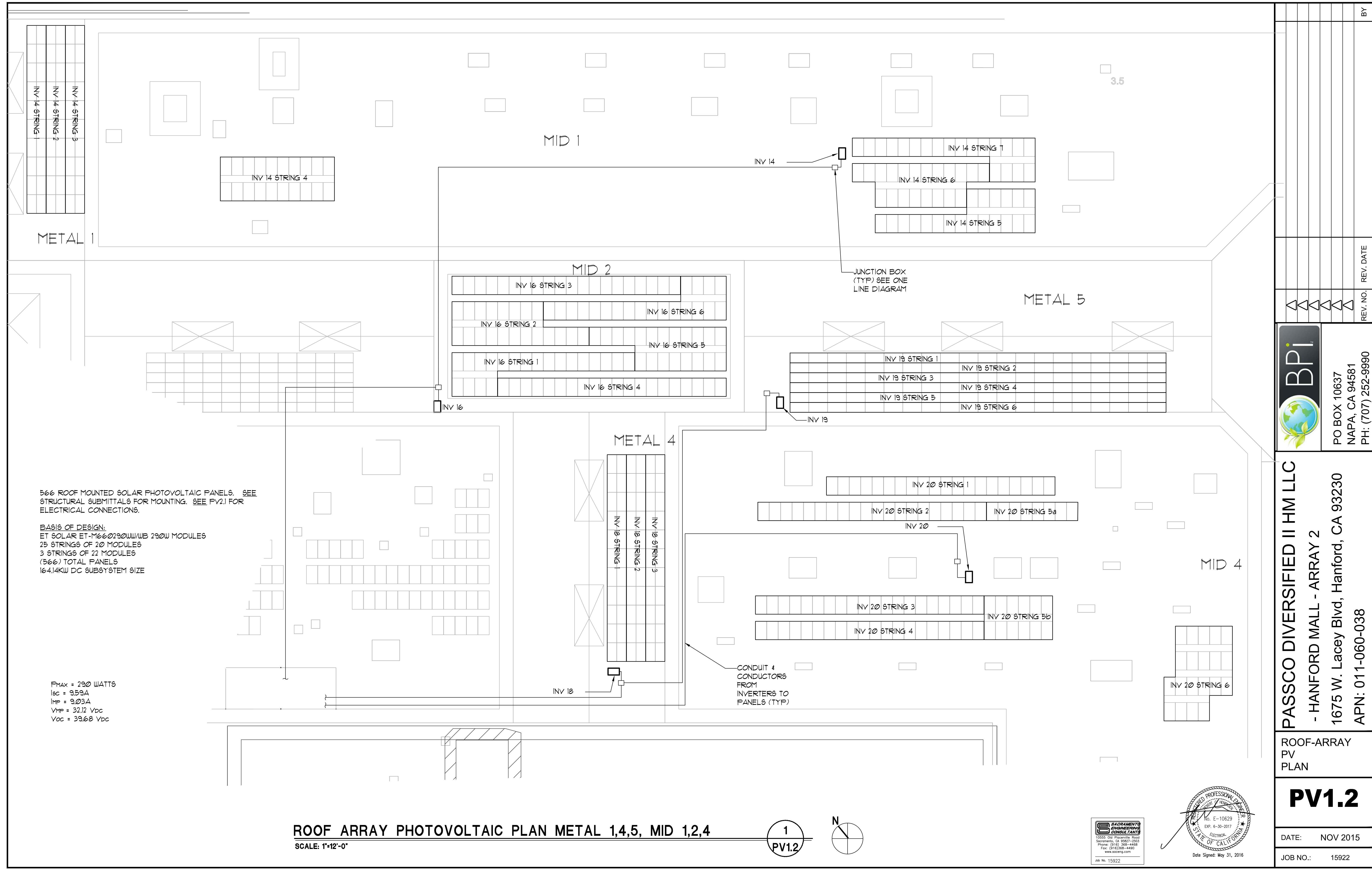
JOB NO.: 15922

BY

REV. NO. REV. DATE



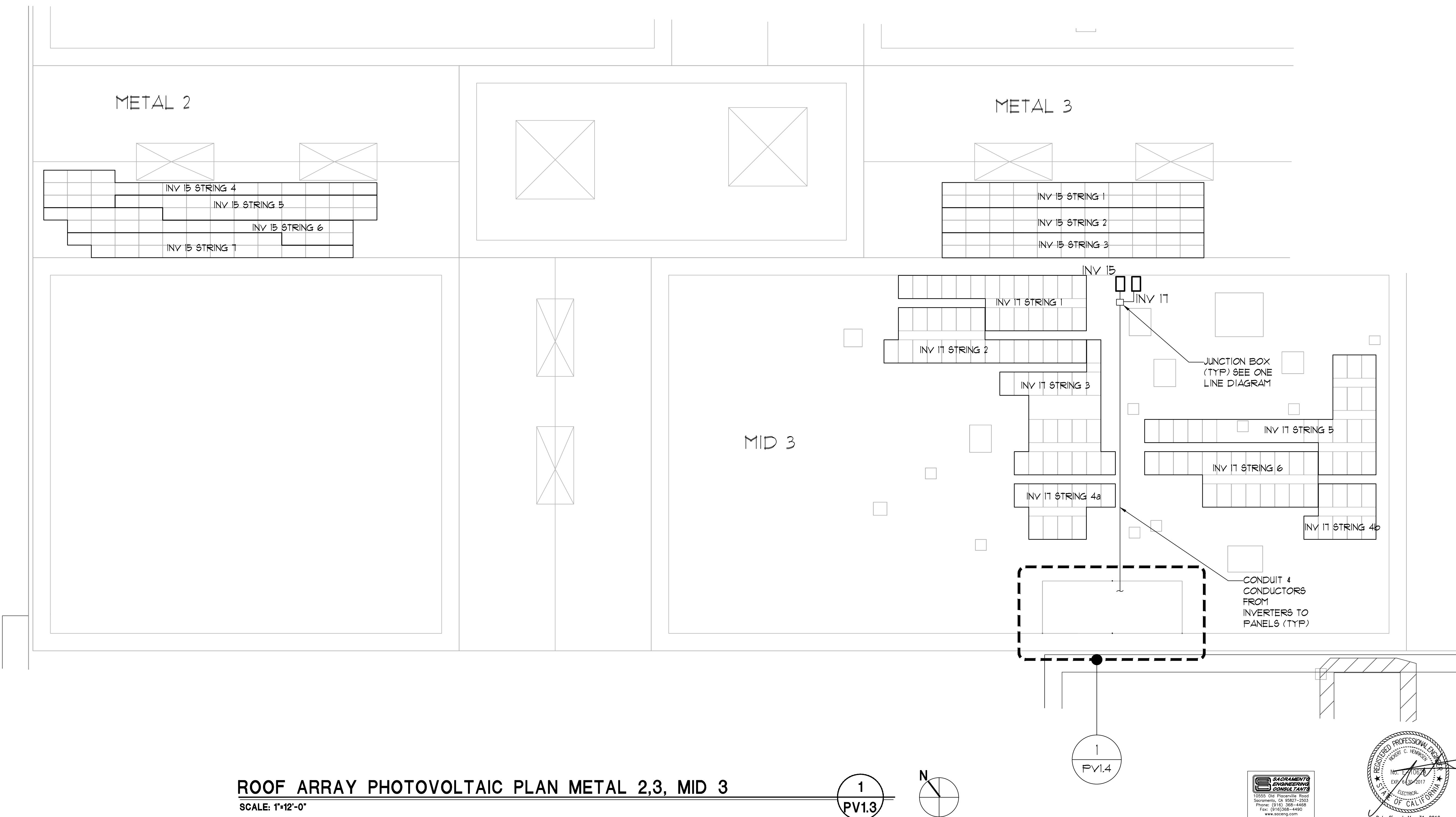
PO BOX 10637
NAPA, CA 94581
PH: (707) 252-9990



266 ROOF MOUNTED SOLAR PHOTOVOLTAIC PANELS. SEE
STRUCTURAL SUBMITTALS FOR MOUNTING. SEE PV2.1 FOR
ELECTRICAL CONNECTIONS.

BASIS OF DESIGN:
ET SOLAR ET-M60290WW/B 290W MODULES
10 STRINGS OF 20 MODULES
3 STRINGS OF 22 MODULES
(266) TOTAL PANELS
71.14kW DC SUBSYSTEM SIZE

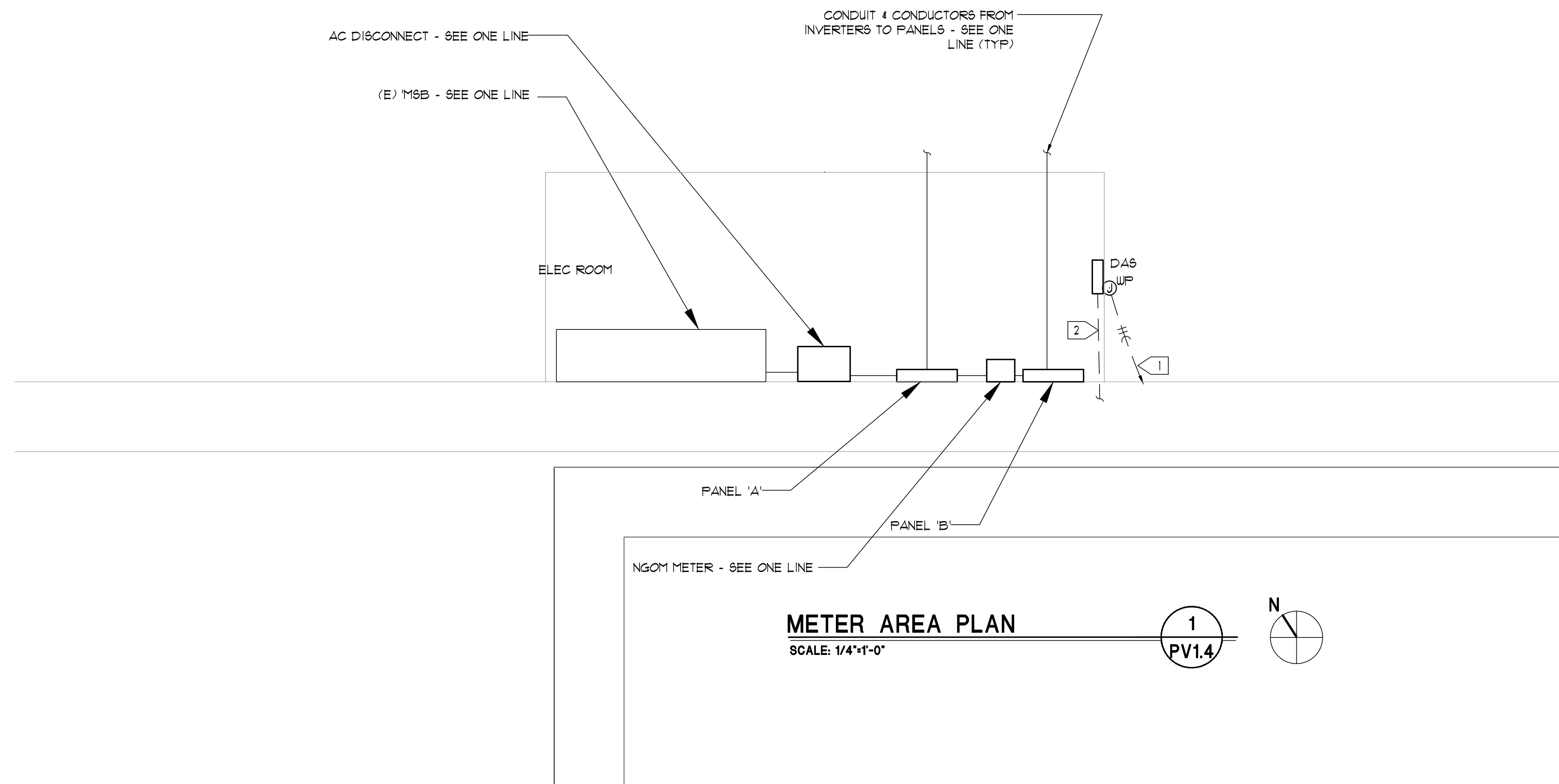
P_{MAX} = 290 WATTS
I_{SC} = 9.59A
I_{MP} = 9.03A
V_{MP} = 32.12 Vdc
V_{OC} = 39.68 Vdc



| | | | | |
|---|----------|-----------|---|---|
| BPi | | | | |
| | △ | △ | △ | △ |
| PO BOX 10637 NAPA, CA 94581 PH: (707) 252-9990 | REV. NO. | REV. DATE | | |
| PASSCO DIVERSIFIED II HM LLC - HANFORD MALL - ARRAY 2 1675 W. Lacey Blvd, Hanford, CA 93230 APN: 011-060-038 | | | | |
| ROOF-ARRAY PV PLAN | | | | |
| PV1.3 | | | | |
| DATE: NOV 2015 | | | | |
| JOB NO.: 15922 | | | | |

NUMBERED NOTES

- [1] (2) #10, #10 G IN $\frac{3}{4}$ "C. TO NEAREST PANEL. PROVIDE 20A/IP BREAKER IN EXISTING PANEL, AND CONNECT DAS CIRCUIT TO NEW BREAKER.
- [2] (1) 1" DATA CONDUIT TO DATA CONNECTION POINT - SEE ONE LINE. FIELD ROUTE UNDERGROUND OUTSIDE BUILDING, AND SURFACE MOUNT INSIDE. ALTERNATELY, WIRELESS CONNECTION MAY BE PROVIDED.



| | | |
|---------------------------------------|-----|----------|
| PASSCO DIVERSIFIED II HM LLC | BPI | REV. NO. |
| - HANFORD MALL - ARRAY 2 | | |
| 1675 W. Lacey Blvd, Hanford, CA 93230 | | |
| APN: 011-060-038 | | |
| METER-AREA PLAN | | |
| PV1.4 | | |
| DATE: NOV 2015 | | |
| JOB NO.: 15922 | | |

Array Configuration:
2 SOLECTRIA PVI 23TL INVERTERS, 4 PVI 28TL INVERTERS
14 SOLECTRIA PVI 36TL INVERTERS
129 Strings
2768 Modules Total
22 ET SOLAR ET-M660290WW/WB 290W Modules per String for 94 Strings
20 ET SOLAR ET-M660290WW/WB 290W Modules per String for 35 Strings

Note: For specifications of solar equipment see attached cut sheets.

INTERCONNECTION STANDARDS COMPLIANCE

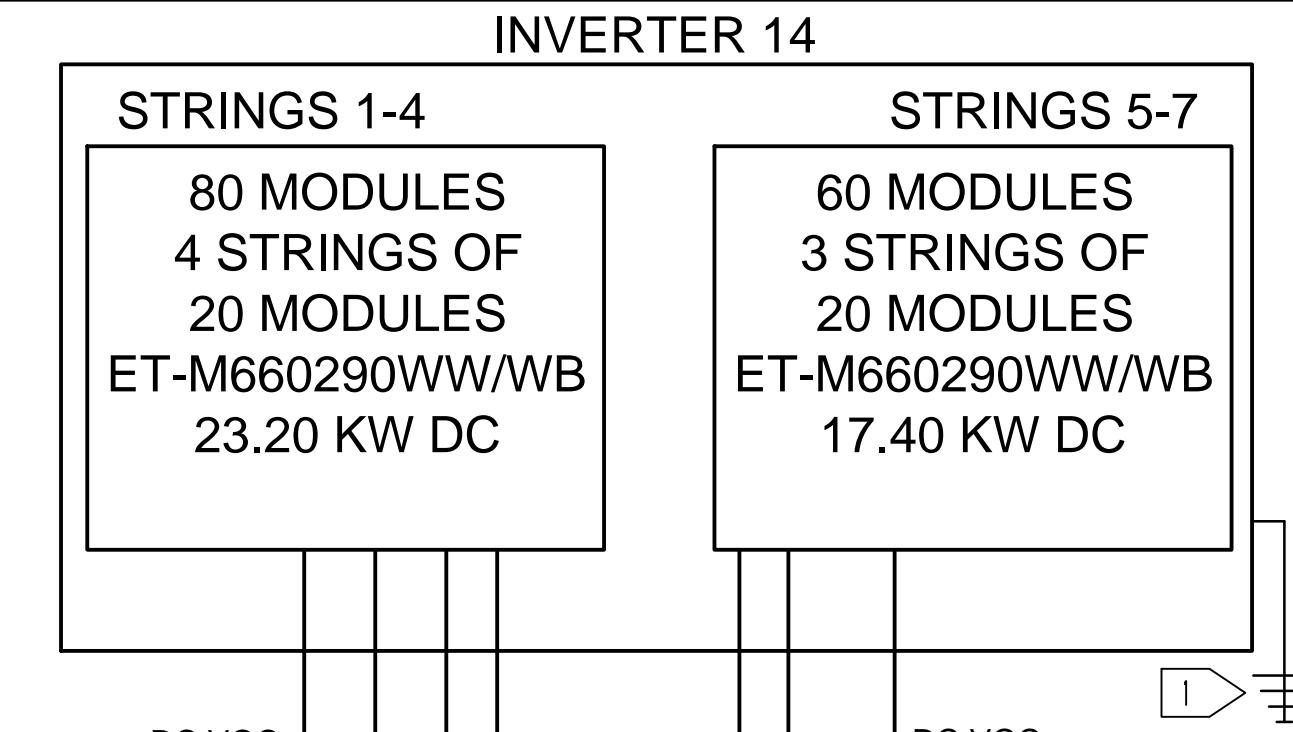
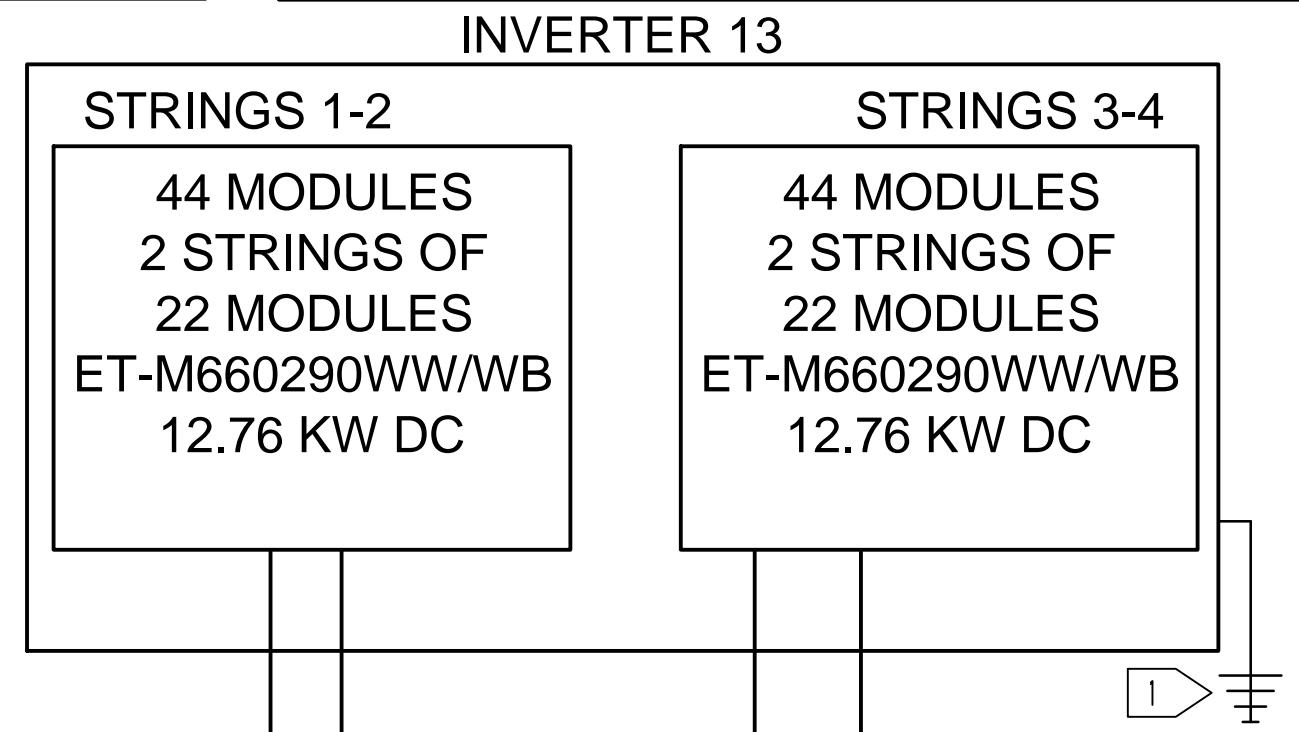
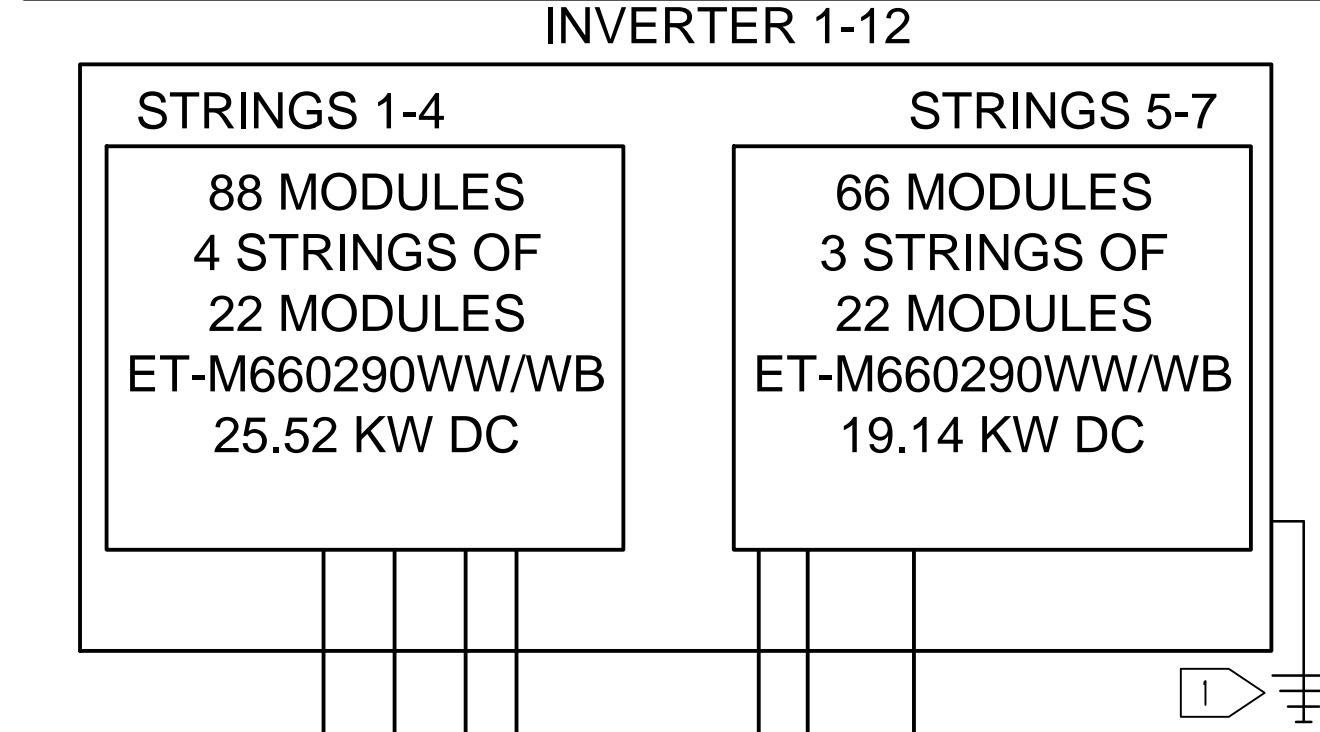
The Inverters listed have been tested and listed by Underwriters Laboratories to be in compliance with UL1741 Statistic Inverters And Charge Controllers For Use In Photovoltaic Power Systems, as well as IEEE-929-2000 Recommended Practice For Utility Interface Of Photovoltaic (PV) Systems.

IEEE-929-2000 provides guidance regarding equipment and function necessary to ensure compatible operation of photovoltaic systems which are connected in parallel with the electric utility. UL 1741 is the standard applied by Underwriters Laboratory to the Inverter to verify it meets the recommendations of IEEE-929-2000.

Refer to both documents for details of these Recommendations and test procedures.

AC Disconnect is accessible, and lockable.

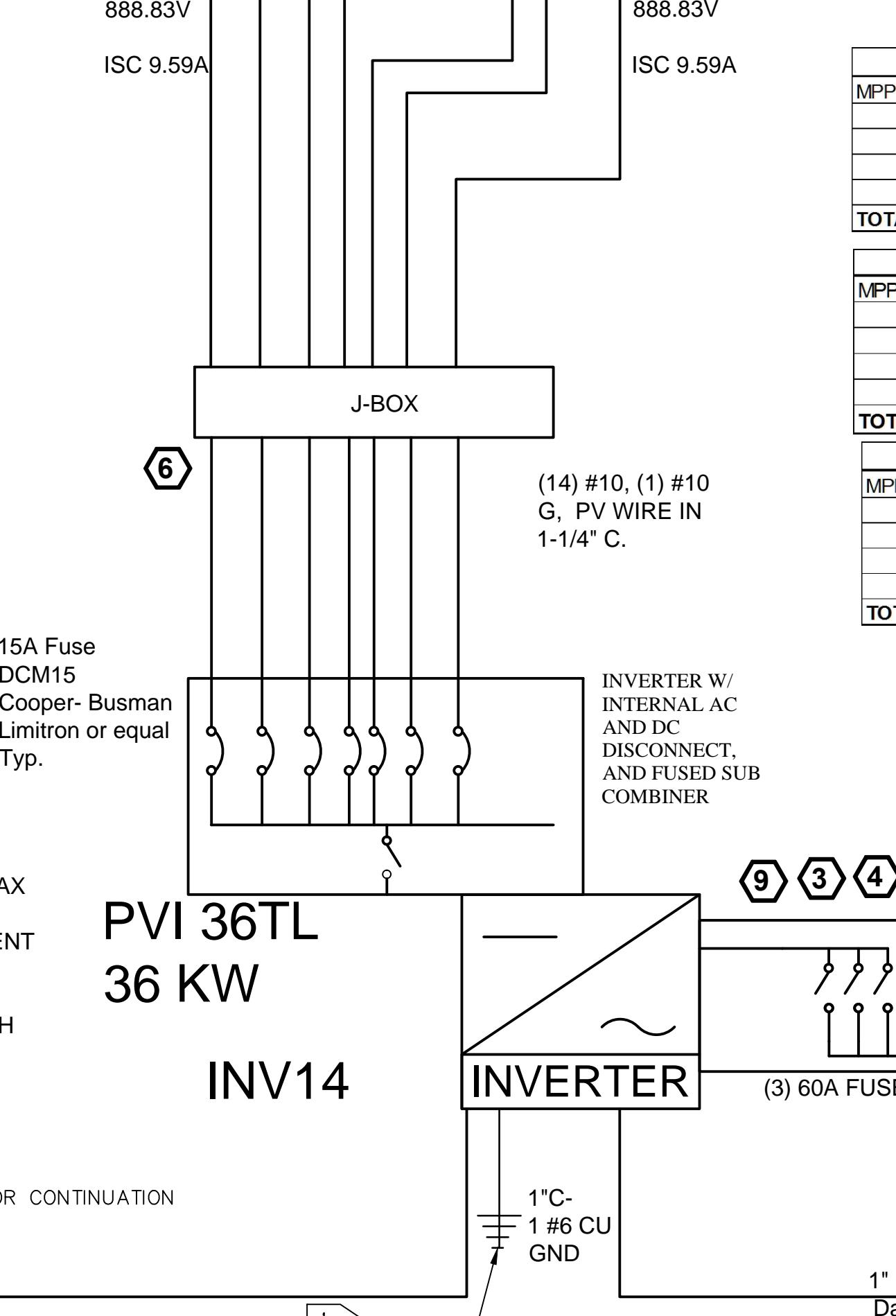
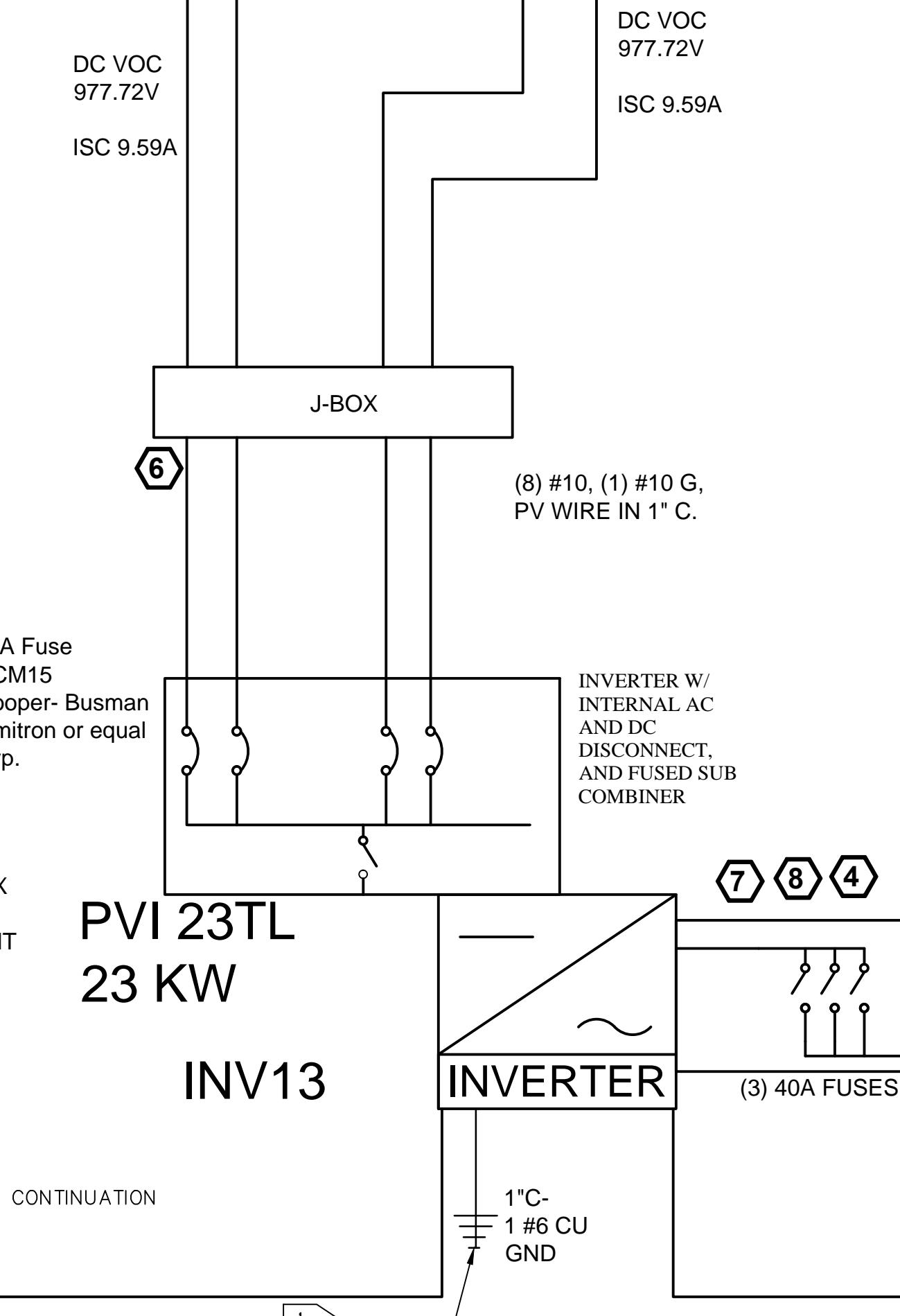
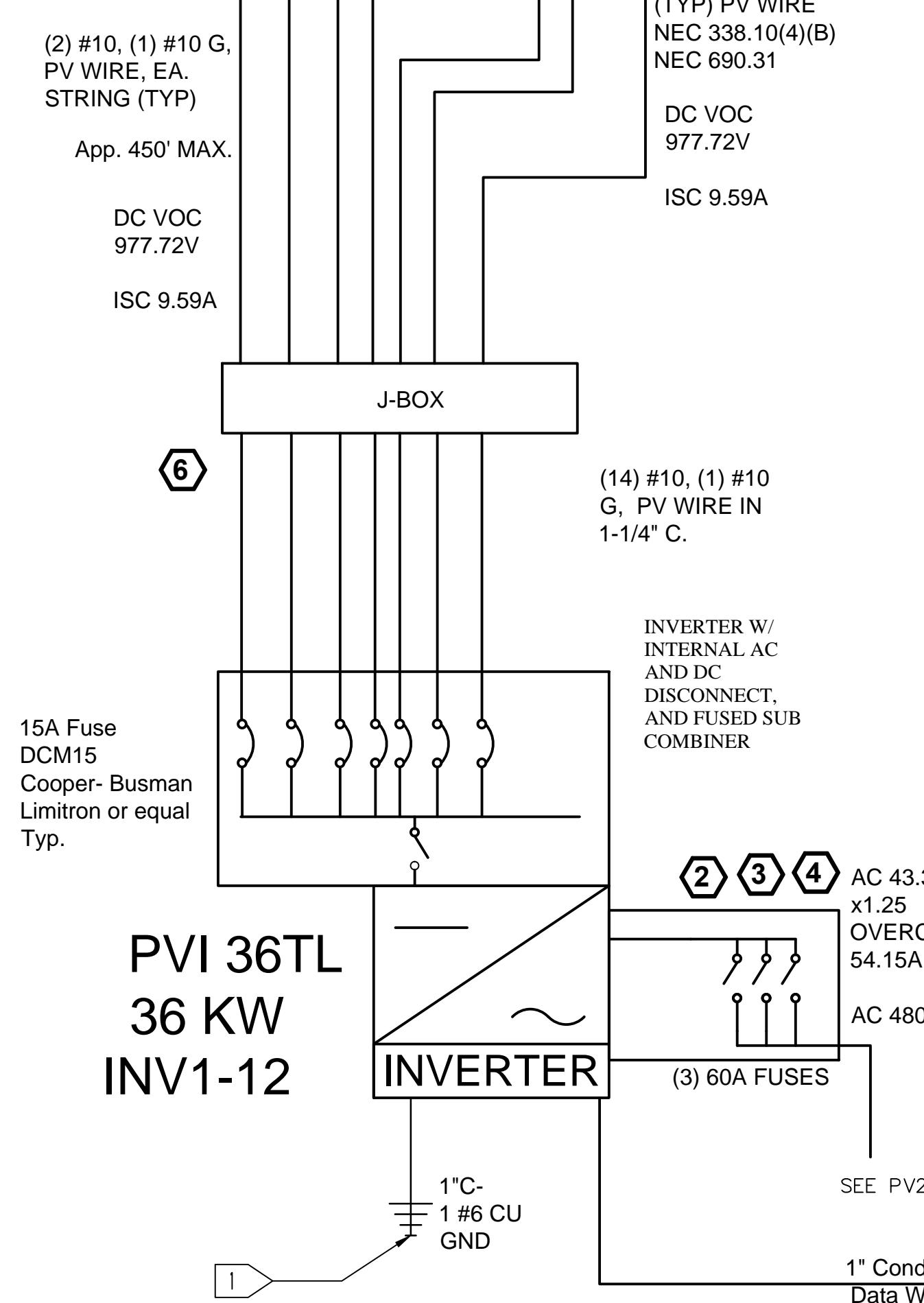
Single line diagrammatic only actual layout determined by existing conditions.
All hazardous transmission lines to be labeled:
"CAUTION-Electrical Hazard"



NUMBERED NOTES

- 1 PROVIDE #6 CU GROUNDING ELECTRODE CONDUCTOR TO BUILDING GROUND, PER ARTICLE 250, CEC.

2768 ET SOLAR ET-M660290WW/WB 290W Modules 802.72 kW DC Power



| INV #14 CALCULATIONS | | | |
|----------------------|--------------|-------------|--------------|
| MPPT# | # OF STRINGS | # OF PANELS | KW |
| 1 | 4 | 80 | 23.20 |
| 2 | 3 | 60 | 17.40 |
| TOTAL | 7 | 140 | 40.60 |

| INV #13 CALCULATIONS | | | |
|----------------------|--------------|-------------|--------------|
| MPPT# | # OF STRINGS | # OF PANELS | KW |
| 1 | 2 | 44 | 12.76 |
| 2 | 2 | 44 | 12.76 |
| TOTAL | 4 | 88 | 25.52 |

| INV #1-12 CALCULATIONS | | | |
|------------------------|--------------|-------------|--------------|
| MPPT# | # OF STRINGS | # OF PANELS | KW |
| 1 | 4 | 88 | 25.52 |
| 2 | 3 | 66 | 19.14 |
| TOTAL | 7 | 154 | 44.66 |

- ELECTRICAL SIGNAGE NOTES
REFER TO PV4.1 FOR DETAILS
- ② PHOTOVOLTAIC ARRAY DC DISCONNECT
OPERATING CURRENT: 63.21 A
OPERATING VOLTAGE: 791.44 V
MAX. SYSTEM VOLTAGE: 971.72 V
SHORT-CIRCUIT CURRENT: 67.13 A
 - ③ PHOTOVOLTAIC ARRAY AC DISCONNECT
OPERATING CURRENT: 43.32 A
OPERATING VOLTAGE: 480 V
 - ④ WARNING!
ELECTRIC SHOCK HAZARD.
THE DIRECT CURRENT CIRCUIT CONDUCTORS OF THIS PV SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED WITH RESPECT TO GROUND DUE TO LEAKAGE PATHS AND OR GROUND FAULTS.
 - ⑥ CAUTION:
SOLAR CIRCUIT
 - ⑦ PHOTOVOLTAIC ARRAY DC DISCONNECT
OPERATING CURRENT: 36.12 A
OPERATING VOLTAGE: 791.44 V
MAX. SYSTEM VOLTAGE: 971.72 V
SHORT-CIRCUIT CURRENT: 38.36 A
 - ⑧ PHOTOVOLTAIC ARRAY AC DISCONNECT
OPERATING CURRENT: 27.68 A
OPERATING VOLTAGE: 480 V
 - ⑨ PHOTOVOLTAIC ARRAY DC DISCONNECT
OPERATING CURRENT: 63.12 A
OPERATING VOLTAGE: 719.49 V
MAX. SYSTEM VOLTAGE: 886.83 V
SHORT-CIRCUIT CURRENT: 67.13 A

PASSCO DIVERSIFIED II HM LLC
- HANFORD MALL - ARRAY 2
1675 W. Lacey Blvd, Hanford, CA 93230
APN: 011-060-038

SINGLE-LINE
DIAGRAM

PV2.1A

DATE: NOV 2015

JOB NO.: 15922



| Module Model | ET-M660290WW/WB | Modules per string | String output | 22 | Voltage Correction Factor | Corrected String Output |
|---|-----------------|--------------------|--------------------------------|----|---------------------------|-------------------------|
| Module Max Power | 290 W | | | 22 | | |
| Maximum Power Voltage (V _{P MAX}) | 32.12 V | 706.64 V | 791.44 V | | 1.12 (Table A) | |
| Maximum Power Current (I _{P MAX}) | 9.03 A | 9.03 A | 9.03 A | | | |
| Open-circuit voltage (V _{OC}) | 39.68 V | 872.96 V | 977.72 V (Not to Exceed 1000V) | | | |
| Short-circuit current (I _{SC}) | 9.59 A | 9.59 A | 9.59 A | | | |
| Fuse Size | 15 A | | | | | |

22 panel STRING Output

| # of Strings | 1 | Factored | 1.25 | 1.5625 |
|-----------------------|------------|----------|----------|----------|
| Max Voltage | 791.44 V | 791.44 | 1.25 | 791.44 V |
| Max Current | 9.03 A | 11.29 | 14.11 A | 9.03 A |
| Open Circuit Voltage | 977.7152 V | 977.72 | 977.72 V | 977.72 V |
| Short Circuit Current | 9.59 A | 11.99 | 14.98 A | 9.59 A |

| Table A (NEC 690.7) | | |
|---------------------|------------|--------|
| Celsius | Fahrenheit | Factor |
| 14 to 10 | 58 to 50 | 1.06 |
| 9 to 5 | 49 to 41 | 1.08 |
| 4 to 0 | 40 to 32 | 1.1 |
| (-1 to -5) | 31 to 23 | 1.12 |
| (-6 to -10) | 22 to 14 | 1.14 |

| 20 panel STRING Output | | | | |
|------------------------|-----------|----------|----------|----------|
| # of Strings | 1 | Factored | 1.25 | 1.5625 |
| Max Voltage | 719.49 V | 719.49 | 719.49 V | 719.49 V |
| Max Current | 9.03 A | 11.29 | 14.11 A | 9.03 A |
| Open Circuit Voltage | 888.832 V | 888.83 | 888.83 V | 888.83 V |
| Short Circuit Current | 9.59 A | 11.99 | 14.98 A | 9.59 A |

SACRAMENTO ENGINEERING
SERVICES INC.
10555 Old Pacific Boulevard
Sacramento, CA 95827-2203
Phone: (916)588-4490
Fax: (916)588-4495
www.sesinc.com
Job No. 15922

Array Configuration:
2 SOLECTRIA PVI 23TL INVERTERS, 4 PVI 28TL INVERTERS
14 SOLECTRIA PVI 36TL INVERTERS
129 Strings
2768 Modules Total
22 ET SOLAR ET-M660290WW/WB 290W Modules per String for 94 Strings
20 ET SOLAR ET-M660290WW/WB 290W Modules per String for 35 Strings

Note: For specifications of solar equipment see attached cut sheets.

INTERCONNECTION STANDARDS COMPLIANCE

The Inverters listed have been tested and listed by Underwriters Laboratories to be in compliance with UL1741 Statistic Inverters And Charge Controllers For Use In Photovoltaic Power Systems, as well as IEEE-929-2000 Recommended Practice For Utility Interface Of Photovoltaic (PV) Systems.

AC Disconnect is accessible, and lockable.

IEEE-929-2000 provides guidance regarding equipment and function necessary to ensure compatible operation of photovoltaic systems which are connected in parallel with the electric utility. UL 1741 is the standard applied by Underwriters Laboratory to the Inverter to verify it meets the recommendations of IEEE-929-2000.

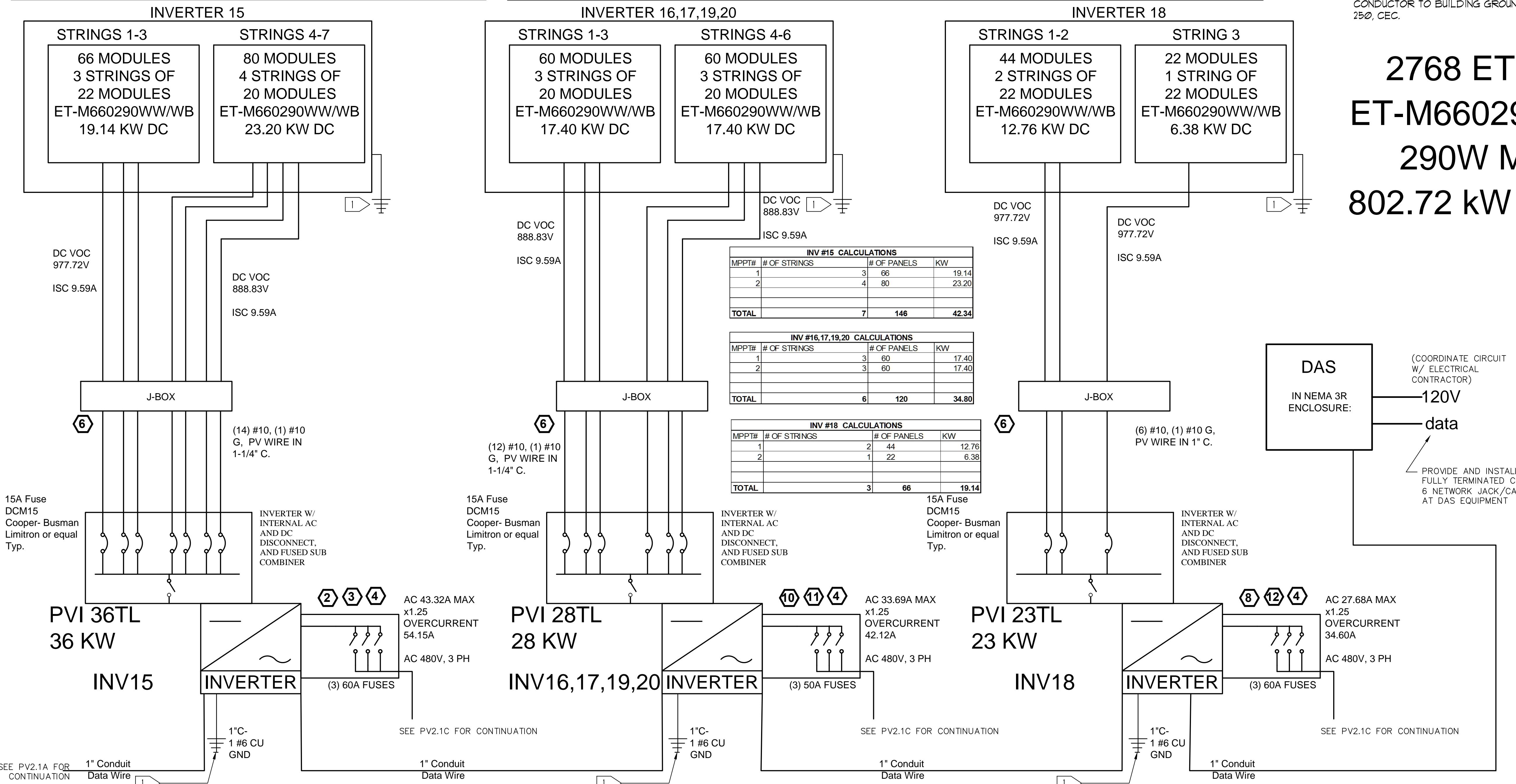
Refer to both documents for details of these Recommendations and test procedures.

Single line diagrammatic only actual layout determined by existing conditions.
All hazardous transmission lines to be labeled:
"CAUTION-Electrical Hazard"

NUMBERED NOTES

- ① PROVIDE #6 CU GROUNDING ELECTRODE CONDUCTOR TO BUILDING GROUND, PER ARTICLE 250, CEC.

2768 ET SOLAR ET-M660290WW/WB 290W Modules 802.72 kW DC Power



- ELECTRICAL SIGNAGE NOTES REFER TO PV4.1 FOR DETAILS
- PHOTOVOLTAIC ARRAY DC DISCONNECT OPERATING CURRENT: 63.21 A OPERATING VOLTAGE: 791.44 V MAX. SYSTEM VOLTAGE: 977.72 V SHORT-CIRCUIT CURRENT: 67.15A
 - PHOTOVOLTAIC ARRAY AC DISCONNECT OPERATING CURRENT: 43.32 A OPERATING VOLTAGE: 480 V
 - PHOTOVOLTAIC ARRAY DC DISCONNECT OPERATING CURRENT: 27.68 A OPERATING VOLTAGE: 480 V
 - WARNING! ELECTRIC SHOCK HAZARD. THE DIRECT CURRENT CIRCUIT CONDUCTORS OF THIS PV SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED WITH RESPECT TO GROUND DUE TO LEAKAGE PATHS AND OR GROUND FAULTS.
 - CAUTION: SOLAR CIRCUIT
 - PHOTOVOLTAIC ARRAY AC DISCONNECT OPERATING CURRENT: 33.69 A OPERATING VOLTAGE: 480 V
 - PHOTOVOLTAIC ARRAY DC DISCONNECT OPERATING CURRENT: 33.69 A OPERATING VOLTAGE: 480 V
 - PHOTOVOLTAIC ARRAY DC DISCONNECT OPERATING CURRENT: 54.18 A OPERATING VOLTAGE: 888.83 V MAX. SYSTEM VOLTAGE: 977.72 V SHORT-CIRCUIT CURRENT: 57.54 A
 - PHOTOVOLTAIC ARRAY DC DISCONNECT OPERATING CURRENT: 27.00 A OPERATING VOLTAGE: 791.44 V MAX. SYSTEM VOLTAGE: 977.72 V SHORT-CIRCUIT CURRENT: 28.77 A

PASSCO DIVERSIFIED II HM LLC - HANFORD MALL - ARRAY 2
1675 W. Lacey Blvd, Hanford, CA 93230
APN: 011-060-038

SINGLE-LINE DIAGRAM -

PV2.1B

DATE: NOV 2015

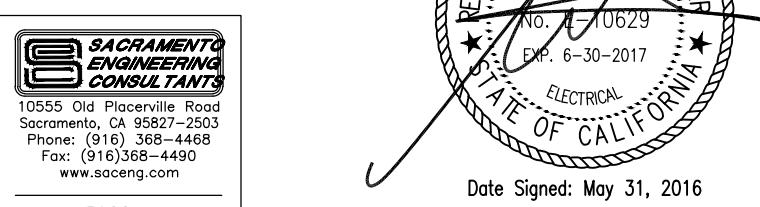
JOB NO.: 15922

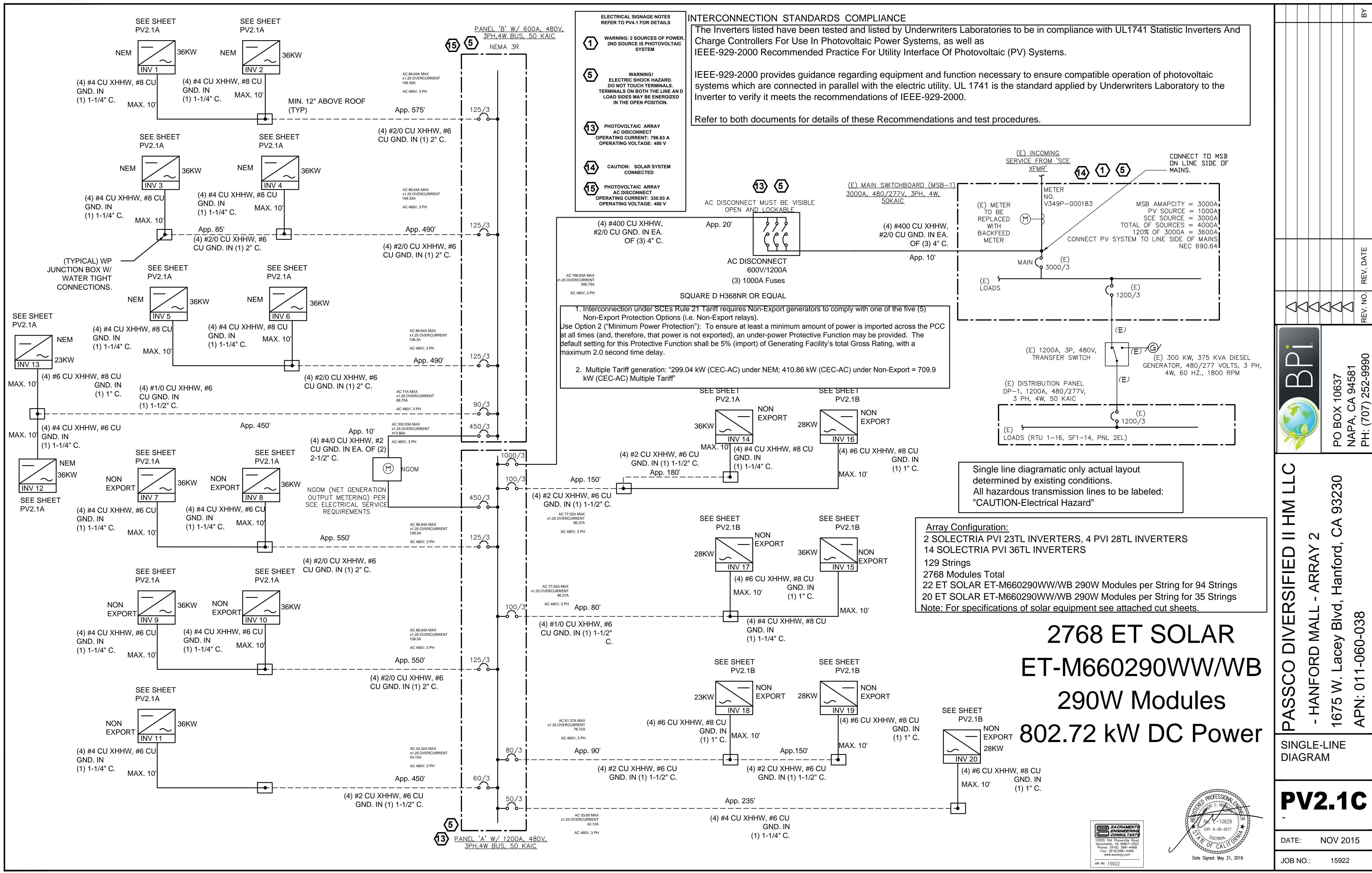
| Module Model | ET-M660290WW/WB | Modules per string | String output | 22 | Voltage Correction Factor | 1.12 (Table) | Module Model | ET-M660290WW/WB | Modules per string | String output | 20 | Voltage Correction Factor | 1.12 (Table A) |
|--|-----------------|--------------------|---------------|----|--------------------------------|--------------|--|-----------------|--------------------|---------------|----|---------------------------|--------------------------------|
| Module Max Power | 290 W | | | | | | Module Max Power | 290 W | | | | | |
| Maximum Power Voltage (V _{PMAX}) | 32.12 V | 706.64 V | | | 791.44 V | | Maximum Power Voltage (V _{PMAX}) | 32.12 V | 642.4 V | | | | 719.49 V |
| Maximum Power Current (I _{PMAX}) | 9.03 A | 9.03 A | | | 9.03 A | | Maximum Power Current (I _{PMAX}) | 9.03 A | 9.03 A | | | | 9.03 A |
| Open-circuit voltage (V _{OC}) | 39.68 V | 872.96 V | | | 977.72 V (Not to Exceed 1000V) | | Open-circuit voltage (V _{OC}) | 39.68 V | 793.6 V | | | | 888.83 V (Not to Exceed 1000V) |
| Short-circuit current (I _{SC}) | 9.59 A | 9.59 A | | | 9.59 A | | Short-circuit current (I _{SC}) | 9.59 A | 9.59 A | | | | 9.59 A |
| Fuse Size | 15 A | | | | | | Fuse Size | 15 A | | | | | |

| 22 panel STRING Output | | | |
|------------------------|------------|----------|----------|
| # of Strings | 1 | Factored | 1.5625 |
| Max Voltage | 791.44 V | 791.44 | 791.44 V |
| Max Current | 9.03 A | 11.29 | 14.11 A |
| Open Circuit Voltage | 977.7152 V | 977.72 | 977.72 V |
| Short Circuit Current | 9.59 A | 11.99 | 14.98 A |

| Table A (NEC 690.7) | | |
|---------------------|------------|--------|
| Celsius | Fahrenheit | Factor |
| 14 to 10 | 58 to 50 | 1.06 |
| 9 to 5 | 49 to 41 | 1.08 |
| 4 to 0 | 40 to 32 | 1.1 |
| (-1 to -5) | 31 to 23 | 1.12 |
| (-6 to -10) | 22 to 14 | 1.14 |

| 20 panel STRING Output | | | |
|------------------------|-----------|----------|----------|
| # of Strings | 1 | Factored | 1.25 |
| Max Voltage | 719.49 V | 719.49 | 719.49 V |
| Max Current | 9.03 A | 11.29 | 14.11 A |
| Open Circuit Voltage | 888.832 V | 888.83 | 888.83 V |
| Short Circuit Current | 9.59 A | 11.99 | 14.98 A |





| SYSTEM 2 CALCULATIONS | | | | |
|-----------------------|--------------|-------------|--------------|--|
| INV# | # OF STRINGS | # OF PANELS | KW | |
| 1 | 7 | 154 | 44.6 | |
| 2 | 7 | 154 | 44.6 | |
| 3 | 7 | 154 | 44.6 | |
| 4 | 7 | 154 | 44.6 | |
| 5 | 7 | 154 | 44.6 | |
| 6 | 7 | 154 | 44.6 | |
| 7 | 7 | 154 | 44.6 | |
| 8 | 7 | 154 | 44.6 | |
| 9 | 7 | 154 | 44.6 | |
| 10 | 7 | 154 | 44.6 | |
| 11 | 7 | 154 | 44.6 | |
| 12 | 7 | 154 | 44.6 | |
| 13 | 4 | 88 | 25.5 | |
| 14 | 7 | 140 | 40.6 | |
| 15 | 7 | 146 | 42.3 | |
| 16 | 6 | 120 | 34.8 | |
| 17 | 6 | 120 | 34.8 | |
| 18 | 3 | 66 | 19.1 | |
| 19 | 6 | 120 | 34.8 | |
| 20 | 6 | 120 | 34.8 | |
| | | | | |
| TOTAL | 129 | 2768 | 802.7 | |

| NGOM CALCULATIONS | |
|-------------------|---------------|
| INV# | KW |
| 1 | 39.50 |
| 2 | 39.50 |
| 3 | 39.50 |
| 4 | 39.50 |
| 5 | 39.50 |
| 6 | 39.50 |
| 12 | 39.50 |
| 13 | 22.57 |
| TOTAL | 299.04 |

| NON EXPORT CALCULATIONS | |
|-------------------------|---------------|
| INV# | KW |
| 7 | 39.50 |
| 8 | 39.50 |
| 9 | 39.50 |
| 10 | 39.50 |
| 11 | 39.50 |
| 14 | 35.91 |
| 15 | 37.44 |
| 16 | 30.78 |
| 17 | 30.78 |
| 18 | 16.93 |
| 19 | 30.78 |
| 20 | 30.78 |
| TOTAL | 410.86 |

| TOTAL AC CALCULATIONS | |
|------------------------------|---------------|
| TYPE | KW |
| NGOM | 299.04 |
| NON EXP | 410.86 |
| TOTAL | 709.90 |

PASSCO DIVERSIFIED II HM LLC

- HANFORD MALL - ARRAY 2
1675 W. Lacey Blvd, Hanford, CA 93230
APN: 011-060-038

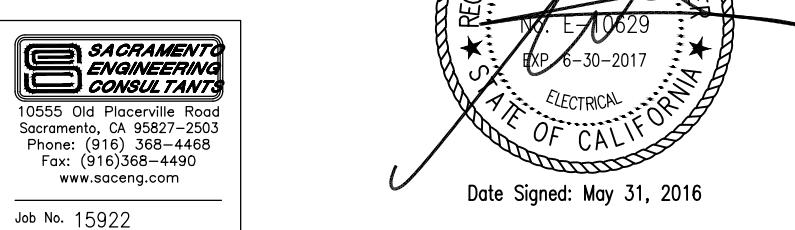
PV DETAILS

PY3.1

DATE: NOV 2015

JOB NO.: 15922

JOB NO.: 15922

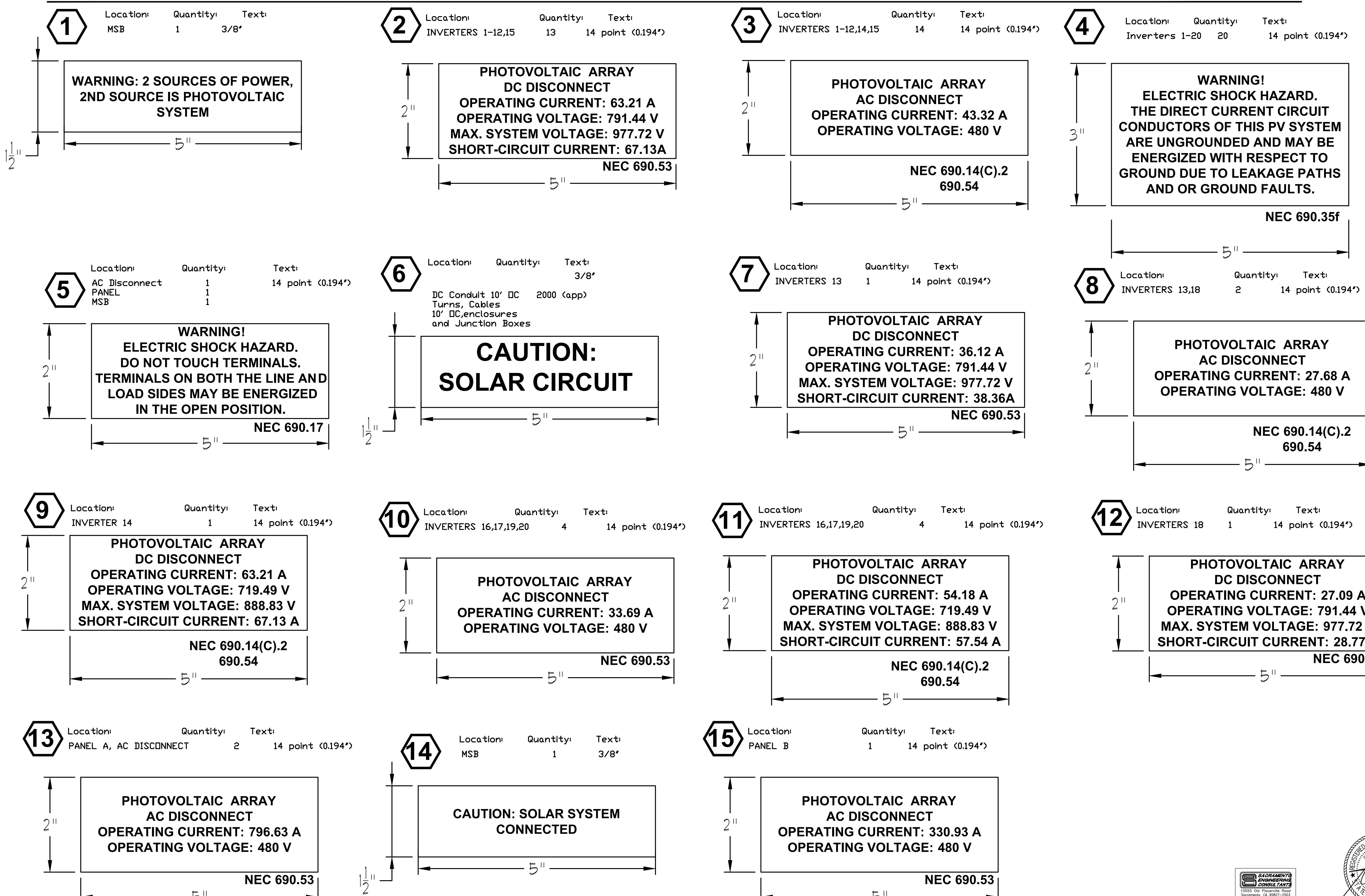


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Material: ABS UV
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REV.

REV. NO. / REV. DATE

BPI

PO BOX 10637
NAPA, CA 94581
PH: (707) 252-9990

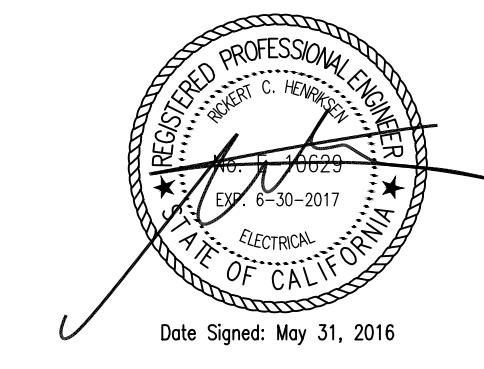
PASSCO DIVERSIFIED II HM LLC
- HANFORD MALL - ARRAY 2
1675 W. Lacey Blvd, Hanford, CA 93230
APN: 011-060-038

PV
SIGNAGE

PV4.1

DATE: NOV 2015

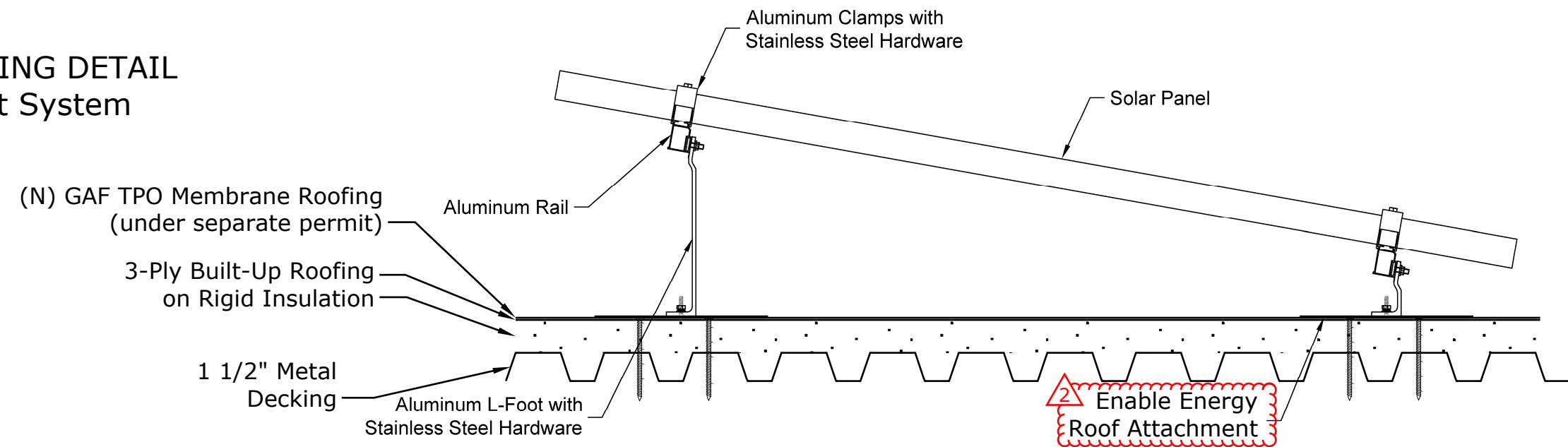
JOB NO.: 15922



Date Signed: May 31, 2016

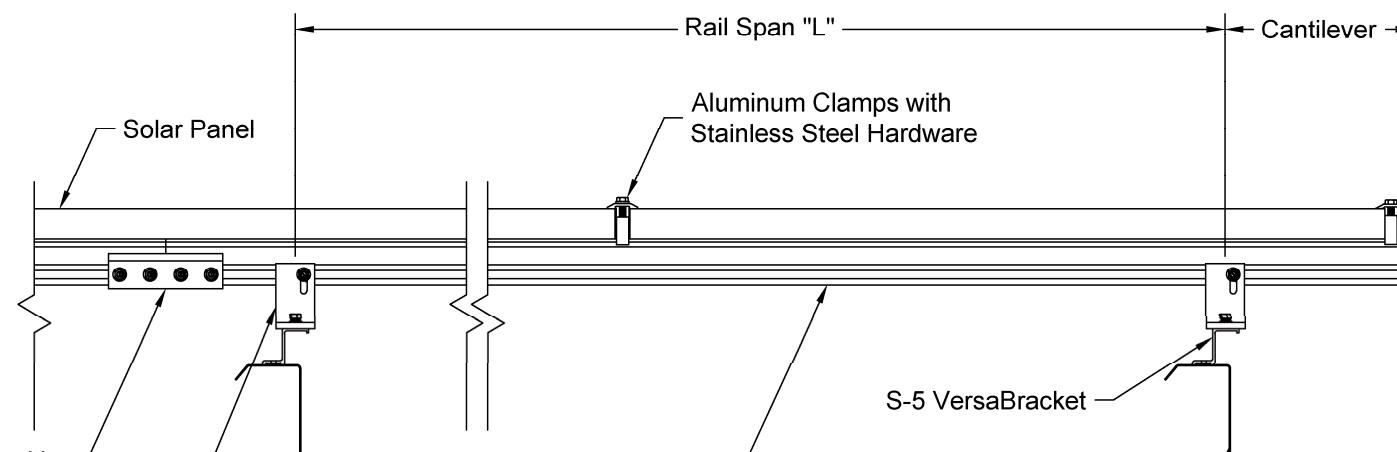
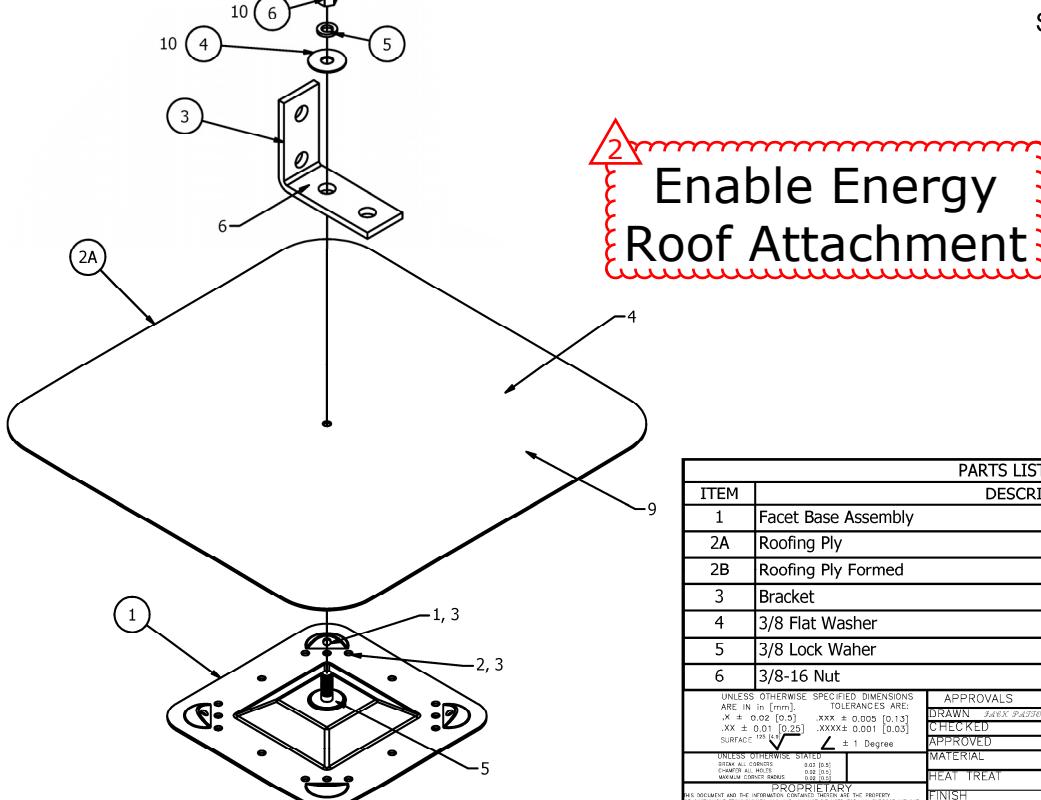
FLAT ROOF RACKING DETAIL

Renusol VS Tilt System



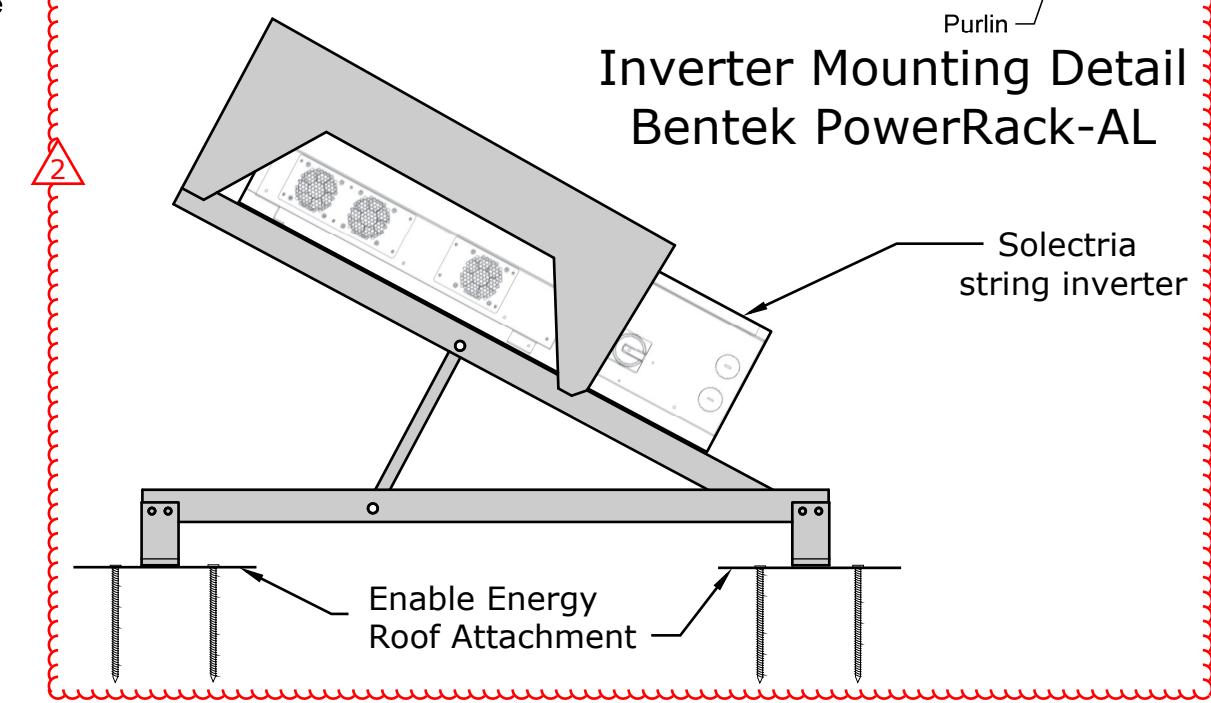
METAL ROOF RACKING DETAIL

Renusol VS Flush Mount



Inverter Mounting Detail

Bentek PowerRack-AL



PASSCO DIVERSIFIED II HM LC - HANFORD MALL
1675 W. LACEY BLVD
HANFORD, CA 93230
APN: 011-060-038
ARRAY 2

S1.0
RACKING DETAILS



DATE: 5-25-16
BY: JB
JOB NO.: C15-710

| | | | |
|---|---------|---|----|
| 1 | 6/20/16 | Updated roof anchor, del. "prelim approval" | JB |
| 2 | 7/7/16 | Updated roof attachment & inverter mounting | JB |

| | | | |
|---|---------|---|----|
| 1 | 6/20/16 | Updated roof anchor, del. "prelim approval" | JB |
| 2 | 7/7/16 | Updated roof attachment & inverter mounting | JB |