DIST	COUNTY	LOCATION CODE	POST MILE TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	5708		1	7

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

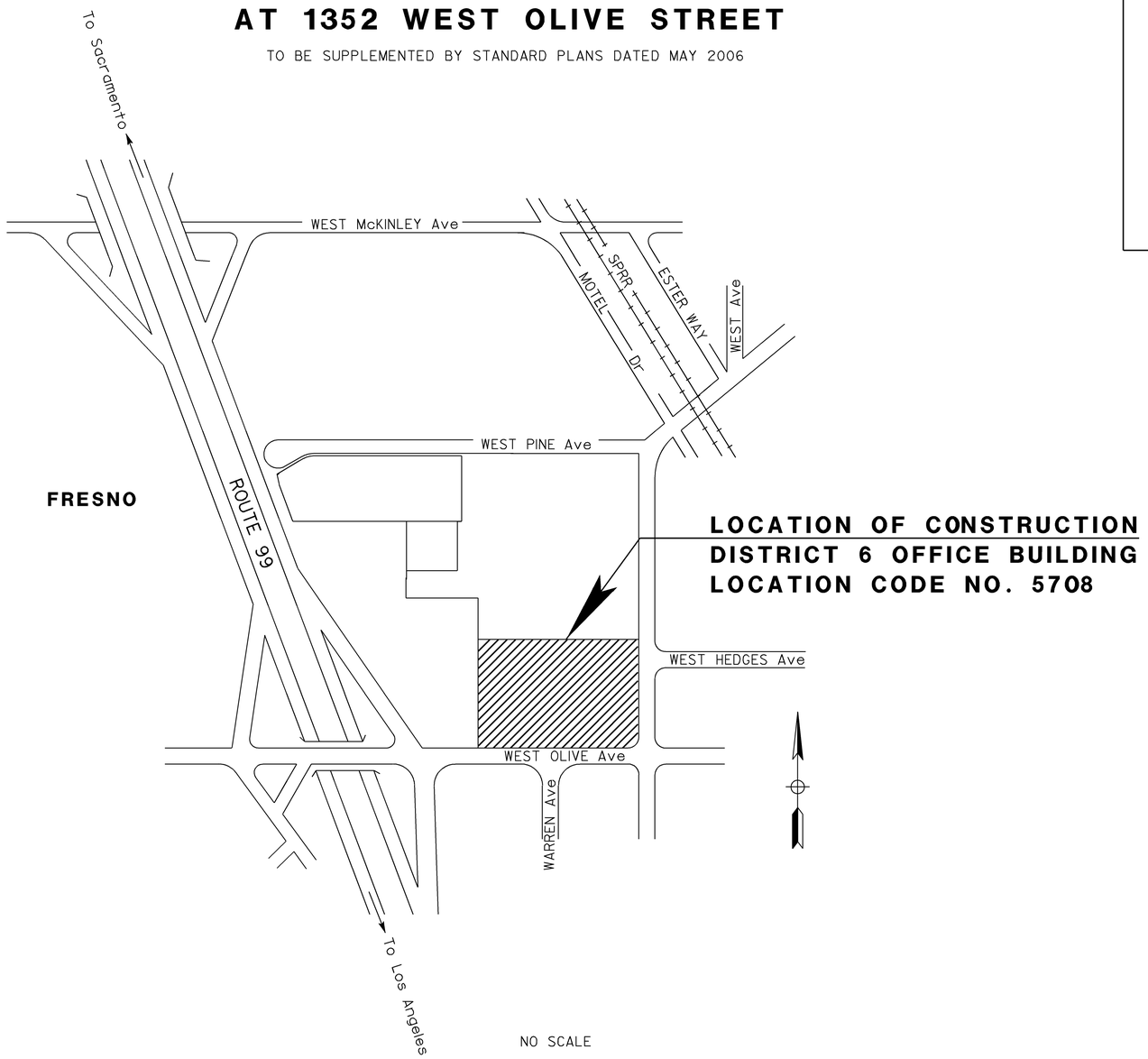
PROJECT PLANS FOR BUILDING CONSTRUCTION IN FRESNO COUNTY IN FRESNO AT THE DISTRICT 6 OFFICE BUILDING AT 1352 WEST OLIVE STREET

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
	STRUCTURE PLANS
2	GENERAL PLAN AND LEGEND
3-7	ELECTRICAL PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



NO SCALE

LOCATION MAP

CALIFORNIA STATE FIRE MARSHAL
APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: MIKE TANAKA
Approval date: 12-28-09

PHOTOVOLTAIC SYSTEMS
CSFM FILE # 01-10-11-0007

Tommy F. Lee 12-02-09
PROJECT ENGINEER DATE
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
TOMMY F. LEE
No. 18534
Exp. 12-31-10
ELEC
STATE OF CALIFORNIA

12-28-2009
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PROJECT MANAGER: HUSSEIN SENAN
DESIGN ENGINEER: ALAN TORRES

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

LAST REVISION DATE PLOTTED => 29-JAN-2010
LAST REVISION TIME PLOTTED => 08:59
12-02-09 TIME PLOTTED => 08:59

Contract No. 06-0AA024

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	5708		2	7

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Reviewed by: MIKE TANAKA
Approval date: 12-28-09

Tommy F. lee 12-02-09
REGISTERED ELECTRICAL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
TOMMY F. LEE
No. 18534
Exp. 12-31-10
ELEC
STATE OF CALIFORNIA

12-28-2009
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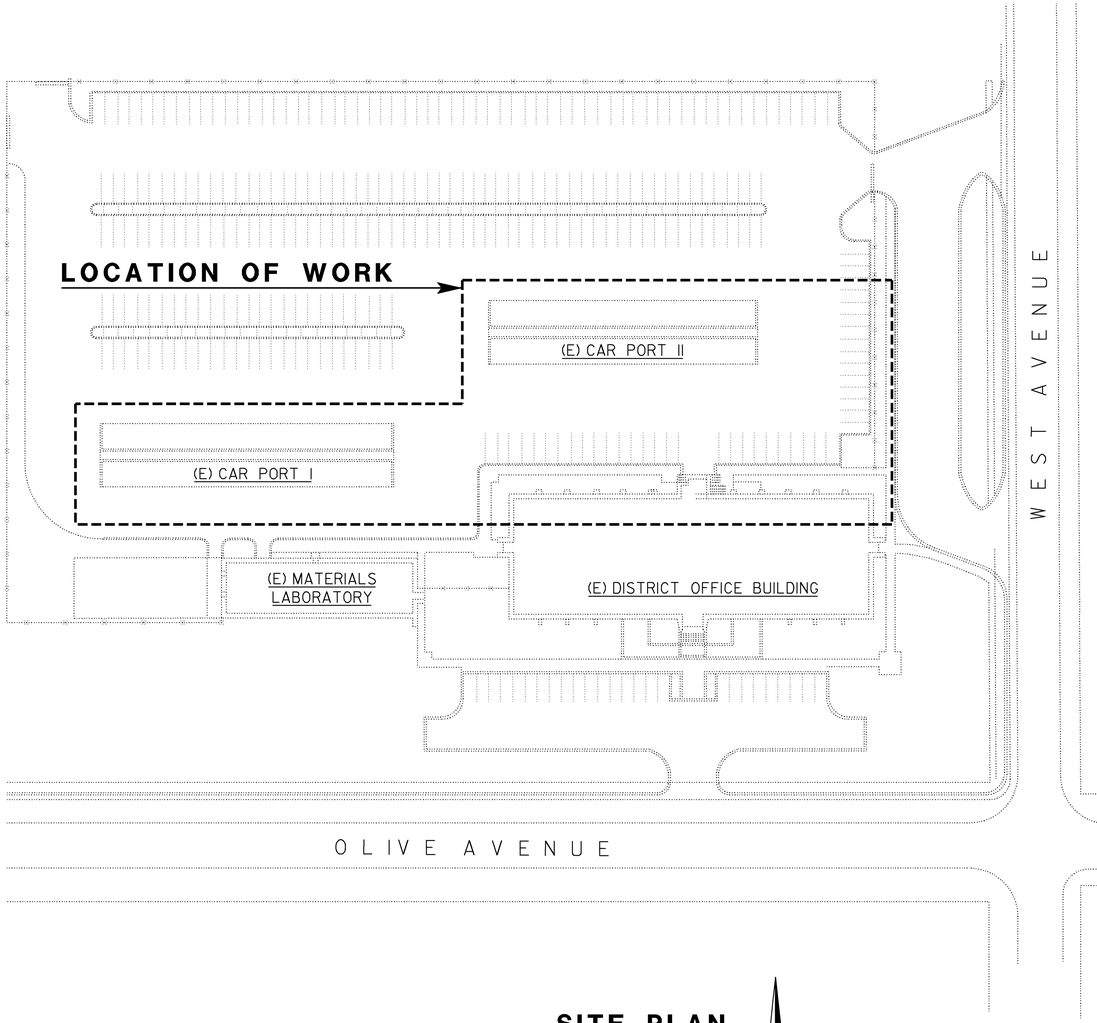
INDEX OF PLANS

SHEET No.	DESCRIPTION
GP	GENERAL PLAN AND LEGEND
	ELECTRICAL
EE-0	EXISTING UTILITY SITE PLAN
EE-1	SITE PLAN
EE-2	SINGLE LINE DIAGRAM GRID-TIED PHOTOVOLTAIC SYSTEM
EE-3	ROOF PLAN
EE-4	ELEVATION AND DETAILS



SITE PLAN
SCALE 1" = 50'-0"

ABBREVIATIONS

A	AMPERES
AC	ALTERNATE CURRENT
C	CONDUIT
DC	DIRECT CURRENT
E	EXISTING
G	GROUND
JB	JUNCTION BOX
MC	METALIC CONDUIT
MIN	MINIMUM
MT	EMPTY CONDUIT
P	POLE
PB	PULL BOX
PTC	PV USA TEST CONDITIONS
PVC	POLYVINYL CHLORINE
PV	PHOTOVOLTAIC
STC	STANDARD TEST CONDITIONS
TYP	TYPICAL
TTB	TELEPHONE TERMINAL BOARD
V	VOLT

GRAPHIC SYMBOLS

SYMBOL	DESCRIPTION
(2) 1/2"C, PVC, 2#12	CONDUCTOR INFO (PER CONDUIT); CONDUIT TYPE; CONDUIT SIZE; NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
—MC—	CONDUIT, RIGID STEEL, UNDERGROUND
—PVC—	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
A / EE-2	SECTION/ELEVATION LETTER; SHEET NUMBER
1 / EE-2	DETAIL NUMBER; SHEET NUMBER
—E—E—	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
	CONDUIT EXPOSED
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN.
	CIRCUIT BREAKER, SINGLE POLE
	CIRCUIT BREAKER, DOUBLE POLE
	CONTACT, NORMALLY OPEN
	SWITCH, DOUBLE-POLE
	FUSE
	GROUNDING ELECTRODE
	ENCLOSURE BOND

APPLICABLE CODES
2007 California Building Code (CBC) Title 24, Part 2 CCR
2007 California Electrical Code (CEC) Title 24, Part 3 CCR
2007 California Fire Code (CEC) Title 24, Part 9 CCR

EXISTING BUILDING DATA

2007 CBC

BUILDING/ PORTION	OCCUPANCY GROUP	CONSTRUCTION TYPE	ALLOWABLE AREA	ACTUAL AREA	YEAR BUILDING BUILT
CARPORT I	U	V-A	9,000 SF	8,064 SF	1997
CARPORT II	U	V-A	9,000 SF	7,392 SF	1997

* ROOF DATA : CONCRETE ROOFING OVER
WOOD PANEL SHEATHING OVER
WOOD BEAMS OVER
STRUCTURAL STEEL BEAM

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR: Jude Schoff	DESIGN	BY Tommy F.Lee	CHECKED Jesse S.Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 42M5708 POST MILE	DISTRICT 6 OFFICE BUILDING PHOTOVOLTAIC SYSTEM — GENERAL PLAN AND LEGEND
DESIGN ENGINEER: Jasvinder S Sandhu	DETAILS	BY Dall Zhou	CHECKED Tommy F.Lee				SHEET GP
	QUANTITIES	BY Tommy F.Lee	CHECKED Jesse S.Sandhu		CU 06146 EA 0AA021		

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	OF
8/18/09	8/31/09	12/2/09		

29-DEC-2009 13:30

gp.dgn

General notes:

A. *For complete right of way, see Right of Way Record Maps at the District 6 office.*

B. *This plan accurate for Utility Information only.*

C. *Location of Utility Facilities shown are approximate and shall be verified prior to beginning of construction.*

CALIFORNIA STATE FIRE MARSHAL
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Reviewed by: MIKE TANAKA
Approval date: 12-28-09

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Tommy F. lee 12-02-09
REGISTERED ELECTRICAL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
TOMMY F. LEE
No. 18534
Exp. 12-31-10
ELEC
STATE OF CALIFORNIA

12-28-2009
PLANS APPROVAL DATE

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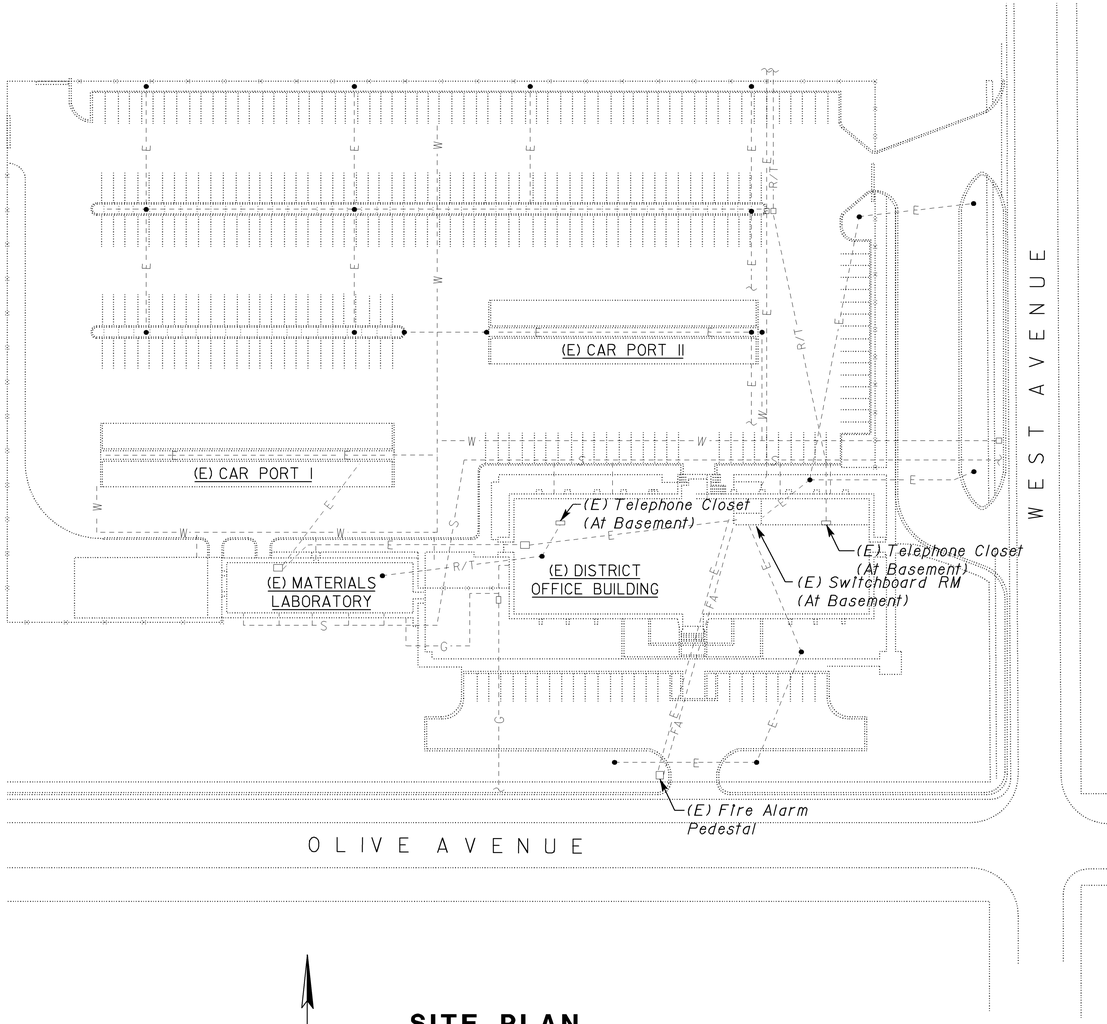

GRAPHIC SYMBOLS (THIS SHEET)

SYMBOL	DESCRIPTION
—E—	POWER
—FA—	FIRE ALARM
—G—	GAS
—R/T—	RADIO AND TELEPHONE
—S—	SEWER
—W—	WATER

SITE PLAN

SCALE 1" = 50'-0"

DESIGN	BY Tommy F.Lee	CHECKED Jesse S.Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 42M5708	DISTRICT 6 OFFICE BUILDING PHOTOVOLTAIC SYSTEM
DETAILS	BY Dall Zhou	CHECKED Tommy F.Lee			POST MILE	EXISTING UTILITY SITE PLAN
QUANTITIES	BY Tommy F.Lee	CHECKED Jesse S.Sandhu				SHEET EE-0

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06146
EA 0AA021

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REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
11/5/09	12/2/09										

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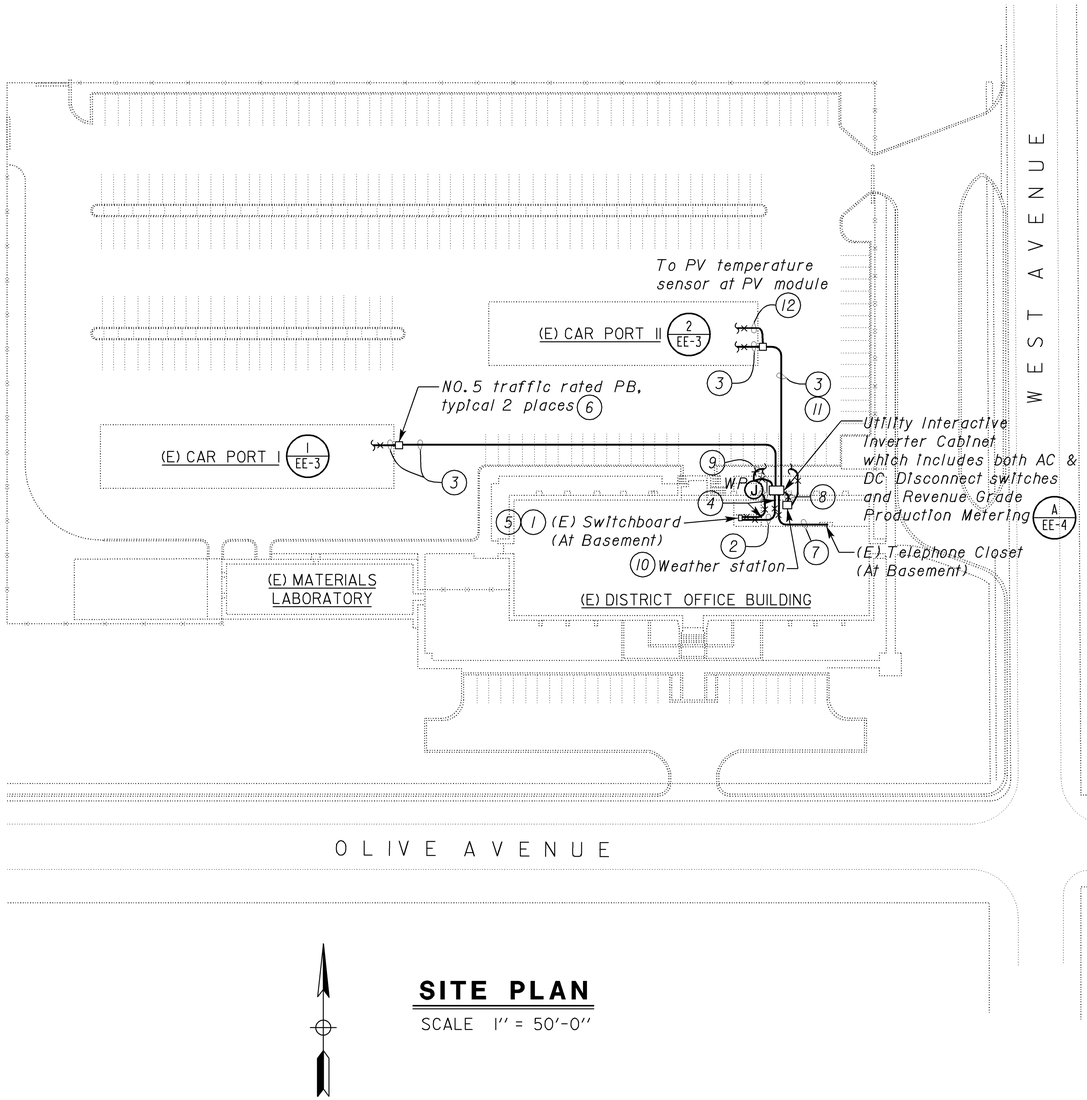

SITE PLAN

SCALE 1" = 50'-0"

General Notes:

A. *The Contractor shall verify true north prior to installation of photovoltaic system.*

B. *All AC/DC feeder conductors and equipment grounding conductors shall be sized to meet or exceed the following:*

- *Total net voltage drop of the photovoltaic electrical power generation system from photovoltaic source to the existing Switchboard shall not exceed 2%.*
- *Upon occurrence of any kind of fault at any point in the system, over current protective devices shall trip within 1/2 cycle.*

C. *Not all electrical/mechanical equipment and conduit systems are shown.*

D. *Location of all existing equipment and conduit systems as shown are approximate only. Contractor shall verify the exact location of all equipment and conduit systems in the field where required.*

E. *Sawcut existing paved surfaces at places where required for installation of underground conduit system and repair disturbed surfaces to match existing.*

F. *For photovoltaic system single line diagram, see sheet EE-2.*

G. *For graphic symbols and abbreviations, see sheet GP.*

H. *Provide conduit flashing as required for penetration through roofing.*

Notes:

(1) *Existing Main Switchboard is Westinghouse Switchboard, 480/277-Volt, 3-phase, 4-wire, switchboard with 1600-Ampere main circuit breaker. Install 150-Ampere, 3-pole, molded case circuit breaker, in the lowest available space of distribution section, for connection photovoltaic system. New circuit breaker shall have ampere interrupting capacity (AIC) of 42,000 symmetrical at 480-Volt. Adjacent to the new 3-pole circuit breaker, install screw on type nameplate with letter height of 1/4" to read "PHOTOVOLTAIC SYSTEM". Install screw on type sign on existing Main Switchboard with letter height of 1/2" to read "THIS PANEL FED BY MULTIPLE SOURCES (UTILITY AND SOLAR)".*

(2) *3"C, MC, five conductors; three phase, one neutral and one equipment grounding conductor, to 3-pole circuit breaker for PV system at the existing 480-Volt Switchboard.*

(3) *2" C, MC, with DC conductors and equipment grounding conductor from photovoltaic Array Circuit Combiner Box at the existing car port roofs to Fused Sub-Array Combiner Inside Utility Interactive Inverter Cabinet.*

(4) *Core drill through existing wall for conduit penetration.*

(5) *Install 20 A, single pole molded case circuit breaker in available space at existing 120/208-Volt, 3-phase, distribution section for connecting weather station and communication gateway. New circuit breaker shall have ampere interrupting capacity (AIC) of 35,000 symmetrical at 240-Volt. Adjacent to the circuit breaker, install screw on type nameplate with letter height of 1/4" to read "WEATHER STATION".*

(6) *Install ground rod inside the pull box and connect equipment grounding conductor to it using ground clamp.*

(7) *1/2"C, MC, Category 6 cable to existing TTB.*

(8) *3/4"C, MC, one RS485 modbus cable and shielded cable for photovoltaic module cell temperature monitoring.*

(9) *1/2"C, MC, 2*12, 1*12G.*

(10) *Weather Station. See detail 5 on sheet EE-4. Install weather station on the roof as directed by the Engineer.*

(11) *3/4"C, MC, Shielded cable for photovoltaic module cell temperature monitoring.*

(12) *1/2"C, MC, Shielded cable for photovoltaic module cell temperature monitoring.*

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Tommy F. lee 12-02-09
REGISTERED ELECTRICAL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
TOMMY F. LEE
No. 18534
Exp. 12-31-10
ELEC
STATE OF CALIFORNIA

12-28-2009
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL
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Reviewed by: MIKE TANAKA
Approval date: 12-28-09

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DESIGN	BY Tommy F. Lee	CHECKED Jesse S. Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 42M5708 POST MILE
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee			
QUANTITIES	BY Tommy F. Lee	CHECKED Jesse S. Sandhu			

DISTRICT 6 OFFICE BUILDING PHOTOVOLTAIC SYSTEM

SITE PLAN

SHEET EE-1

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06146
EA 0AA021

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REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
8/18/09	12/2/09										

30-DEC-2009 08:46

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06	Fre	5708		5	7

Tommy F. lee 12-02-09
REGISTERED ELECTRICAL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — TOMMY F. LEE — No. 18534 — Exp. 12-31-10 — ELEC — STATE OF CALIFORNIA

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Photovoltaic Module

PV modules shall be minimum 185 (STC) watt, polycrystalline silicon cell type module with interconnection connectors rated for 90°C. PV modules shall be UL 1703 listed with a maximum system voltage of 600 VDC. PV module manufacturer shall be one of those manufacturers listed as eligible California Solar Initiative (CSI) PV module manufacturer.

Photovoltaic Array Circuit Combiner Box

PV array circuit combiner box shall be factory assembled, 600 VDC rated combiner box with fused input circuits, two isolated DC bus bars, ground bus bar, all enclosed inside NEMA 3R lockable hinged cover enclosure. The combiner box shall be UL 1741 listed.

PV array circuit combiner box shall have the following components:
- DIN Rail mounted touch safe fuse holders with fuse.
- Positive DC bus bar, Negative DC bus bar and ground bus bar.
- DIN rail mounted Grid-Tie surge arrestor: .The surge arrestor shall be rated to withstand 40 kA (8/20 micro second) induced transient surge type and compatible to use with grounded PV arrays.

Weather Station

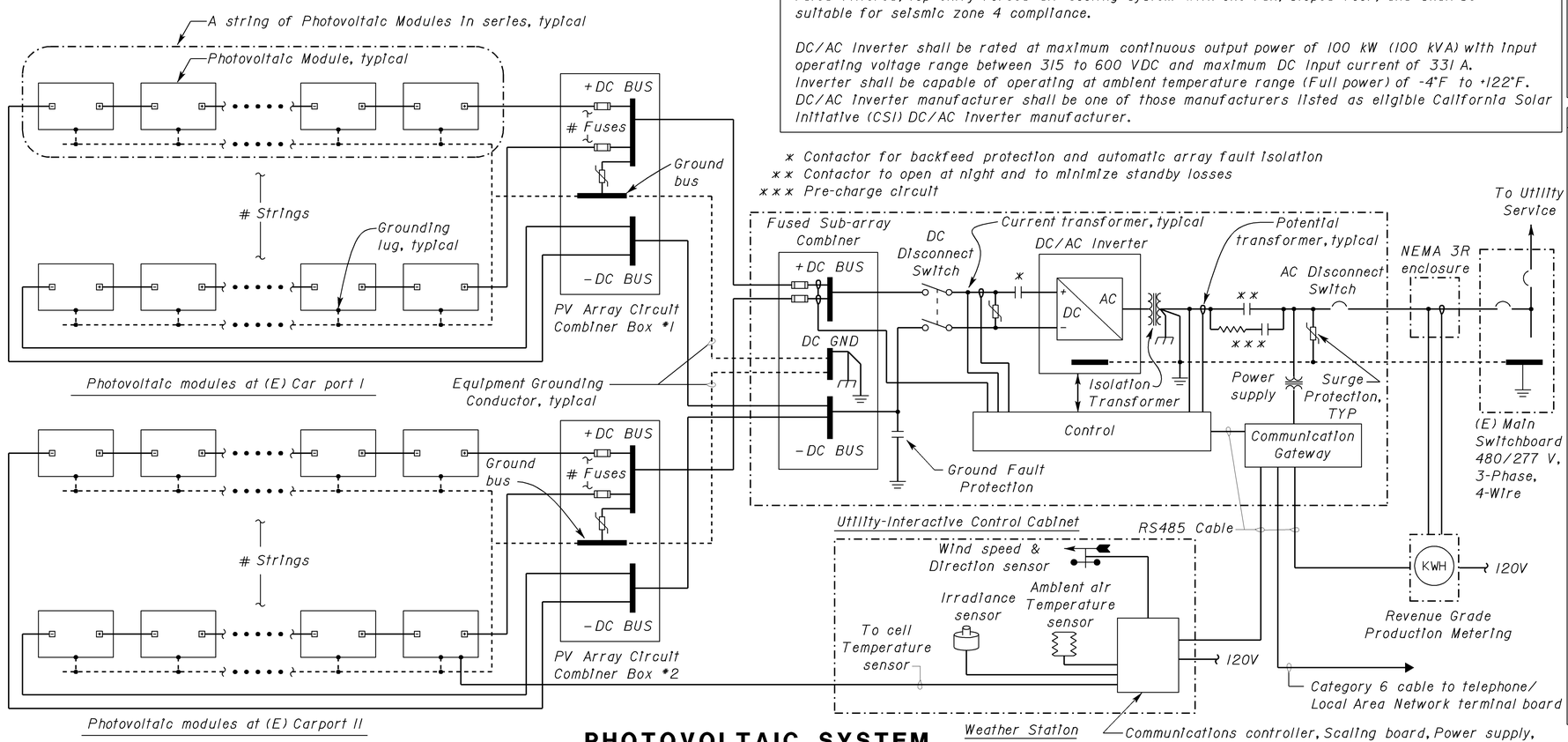
Weather station shall be outdoor type, factory assembled system consisting of the following equipment:
- Irradiance transducers, Silicon Pyranometer type
- Ambient Temperture transducers, K-type thermistor type
- Module Temperture transducers, K-type thermistor type
- Wind speed and Direction transducers, Anemometer type
- Communications controller, Scaling board, Power supply, and RS485 Surge Suppressor all enclosed inside NEMA 3R Enclosure
- NEMA 3R Enclosure, exterior door shall be lockable with a padlock.

Utility-Interactive Control Cabinet

Utility Interactive Control cabinet shall be outdoor type, factory assembled system consisting of the following equipment:
- NEMA 3R Enclosure.
- 100 kW/100 kVA, 480/277 V, 3-phase, 4-wire at a power factor of 0.99 or greater.
- Fused Sub-array Combiner with minimum of 4 array inputs for positive DC, negative DC, and DC ground bus bars. Positive array inputs fuse size to match loading.
- Built-in DC and AC disconnect switches size to match loading.
- Integrated output isolation type transformer.
- Ground Fault Protection.
- Integrated AC and DC Surge Protections.
- Integrated AC and DC contactors.
- Pre-charge circuit.
- Current and potential transformers
- Human Machine Interface (HMI). AC/DC Inverter's HMI shall be equipped with LCD and keypad displaying main menu. HMI main menu shall display system monitoring, status and faults and operation. Monitoring menu shall display system status, metering, daily, weekly and monthly energy production. Status and faults menu shall display status messages, system output, and number of faults. Operation menu shall display control and settings.
- Communication Gateway with datalogging and communications for remote monitoring system with Internet connectivity (TCP/IP). Communication gateway shall be UL listed.
- Sub-array monitoring
- AC Ground bus bars.

Enclosure shall be NEMA 3R, 14-Gauge, and powder-coated standard factory finish steel enclosure. All screws, latches, hinge pins and similar hardware shall be stainless steel. HMI, AC and DC disconnect switches, and equipment rating labels shall be mounted on the exterior door. Exterior door shall have interlock switch and be lockable with a padlock. The cabinet shall have MEV13 rated filtered, top entry forced air cooling system with one fan, sloped roof, and shall be suitable for seismic zone 4 compliance.

DC/AC Inverter shall be rated at maximum continuous output power of 100 kW (100 kVA) with input operating voltage range between 315 to 600 VDC and maximum DC input current of 331 A. Inverter shall be capable of operating at ambient temperature range (Full power) of -4°F to +122°F. DC/AC Inverter manufacturer shall be one of those manufacturers listed as eligible California Solar Initiative (CSI) DC/AC Inverter manufacturer.



PHOTOVOLTAIC SYSTEM

General Notes:

A. Provide and install all necessary warning labels/markings per Article 690 of California Electrical Code (CEC) and the State Fire Marshal's guideline for solar PV installation.

B. Solar PV Installation shall comply with the latest guideline from California Department of Forestry & Fire Protection, Office of the State Fire Marshal and latest Program Handbook from California Solar Initiative (CSI).

C. For graphic symbols and abbreviations, see GP.

Revenue Grade Production Metering

Revenue Grade Production Metering shall be outdoor type, factory assembled metering system with CSI approved System Performance and consisting of the following equipment:
- Revenue Grade Production Meter
- Power supply
- RS485 Surge Suppressor
- NEMA 3R Enclosure, exterior door shall be lockable with a padlock.

Photovoltaic System Requirements

Photovoltaic System complete design and installation details inclusive of all Engineering calculations shall be signed by an Professional Engineer of the respective field (both Electrical and Civil Engineering) in the State of California shall be submitted for approval by the Contractor. The PV design shall meet or exceed the following requirements:

1) Total designed capacity of photovoltaic system shall be minimum 89.3 kW of the CEC-AC rating.
Number of PV module per string shall be arranged in a manner to meet or exceed the following:
- Maximum system voltage based on lowest excepted ambient temperature at the site (Voc maximum on coldest day) shall be no less than 1% of the Inverter's maximum input DC voltage range.
- Maximum system power voltage based on average high ambient temperature at the site (Vmp on warmest day) shall be 20% greater than the Inverter's minimum input DC voltage range.

2) Photovoltaic system module row spacing shall be designed to prevent shading from adjacent module.

3) All wiring except at module interconnection shall be concealed inside conduit system.

4) Photovoltaic system modules structural support system shall be designed to withstand wind forces of 85-mile per hour.

5) Photovoltaic system wiring and protective devices shall meet or exceed the requirements of all applicable codes.

6) PV Array Circuit Combiner Boxes locations as shown are arbitrary only. Contractor shall install the combiner boxes at locations that best suit the photovoltaic system strings layout.

7) PV modules installed on different slopes and/or orientation shall not be part of the same string except PV modules installed on flat roof.

DESIGN	BY Tommy F.Lee	CHECKED Jesse S.Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 42M5708 POST MILE
DETAILS	BY Dalt Zhou	CHECKED Tommy F.Lee			
QUANTITIES	BY Tommy F.Lee	CHECKED Jesse S.Sandhu			

DISTRICT 6 OFFICE BUILDING
PHOTOVOLTAIC SYSTEM
SINGLE LINE DIAGRAM
GRID-TIED PHOTOVOLTAIC SYSTEM

SHEET EE-2

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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EA 0AA021

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REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF
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06	Fre	5708		6	7

Tommy F. lee 12-02-09
REGISTERED ELECTRICAL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
TOMMY F. LEE
No. 18534
Exp. 12-31-10
ELEC
STATE OF CALIFORNIA

12-28-2009
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Reviewed by: MIKE TANAKA
Approval date: 12-28-09

General notes:

A. *Provide and install approved conduit support on top of the roof to support conduit system and junction boxes. Conduit support shall be one-piece and non metallic type. For conduit support details, see detail 1 on sheet EE-4.*

B. *All exposed conduits shall be galvanized rigid steel, with minimum size ¾".*

C. *Size conduits to allow for 50% future capacity.*

D. *No DC wiring except at the module connector shall be exposed.*

E. *Use type CGB connectors at conduit terminations to exposed conductors.*

F. *DC conduit/conductors between photovoltaic modules and photovoltaic Array Circuit Combiner Boxes are not shown.*

G. *Existing car port I and II roof heights are approximately ±8'-0".*

H. *For graphic symbols and abbreviations, see GP sheet.*

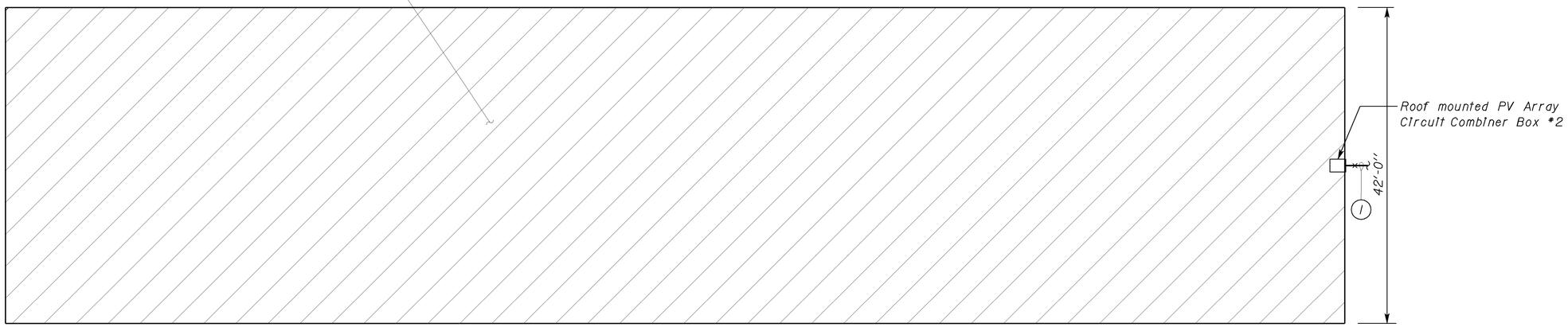
I. *For photovoltaic rack attachment detail, see details 2 on EE-4.*

J. *Provide and install all necessary warning labels/markings per Article 690 of California Electrical Code (CEC) and the State Fire Marshal's guideline for solar PV installation.*

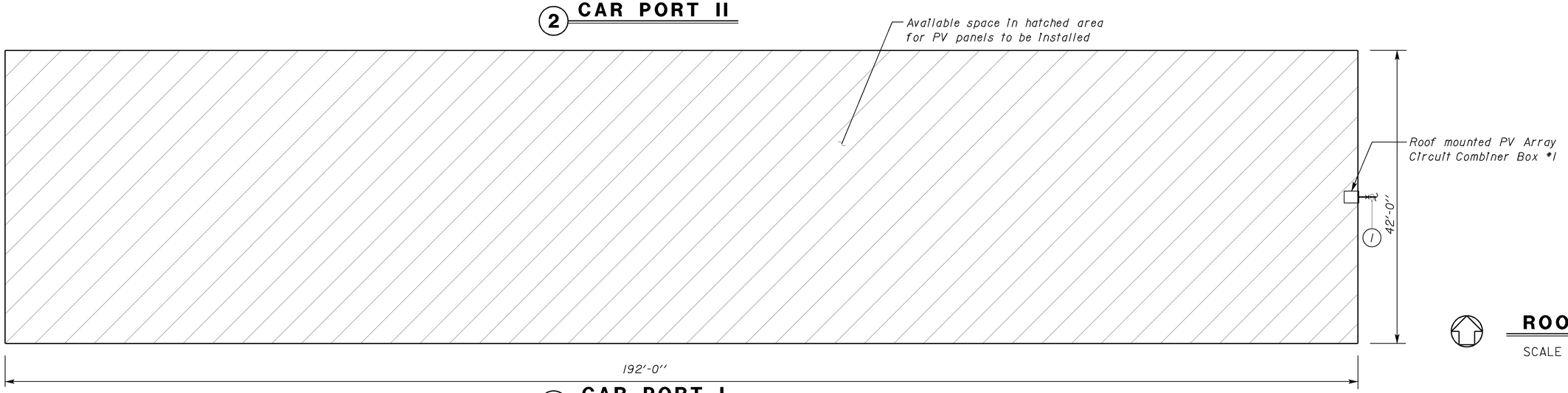
K. *Solar photovoltaic installation shall comply with the latest guideline from California Department of Forestry & Fire Protection, Office of the State Fire Marshal and latest Program Handbook from California Solar Initiative (CSI).*

Note:

(1) *2"C, MC, with DC conductors and equipment grounding conductor to Utility Interactive Inverter Cabinet. For continuation, see sheet EE-1.*



(2) CAR PORT II



(1) CAR PORT I

ROOF PLAN

SCALE 1/8" = 1'-0"

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DETAILS	BY Dalf Zhou	CHECKED Tommy F.Lee			POST MILE	ROOF PLAN
QUANTITIES	BY Tommy F.Lee	CHECKED Jesse S.Sandhu				SHEET EE-3

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06146
EA 0AA021

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Tommy F. lee 12-02-09
REGISTERED ELECTRICAL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — TOMMY F. LEE — No. 18534 — Exp. 12-31-10 — ELEC — STATE OF CALIFORNIA

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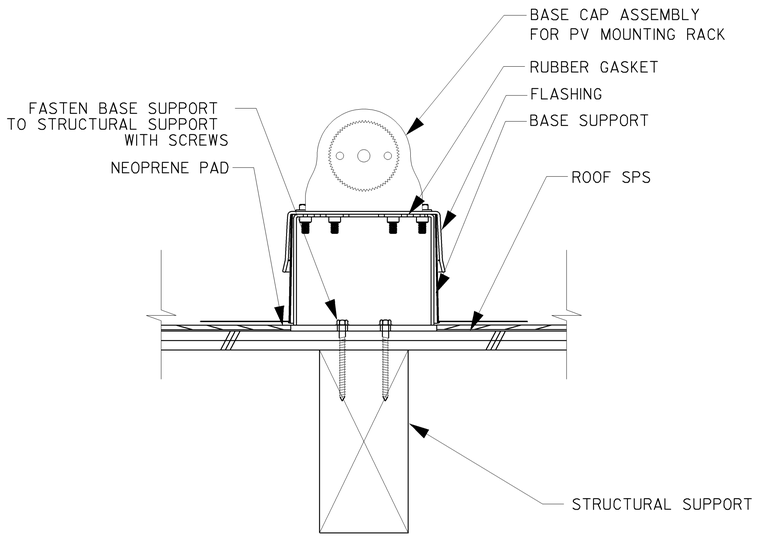
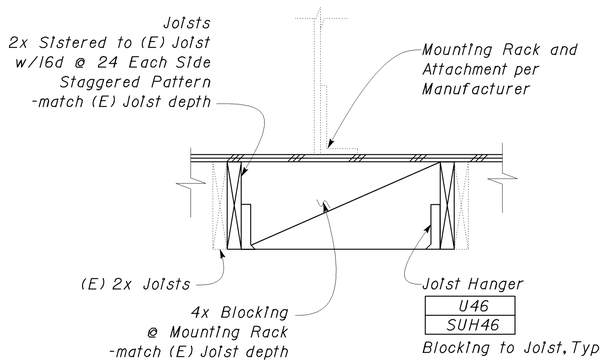


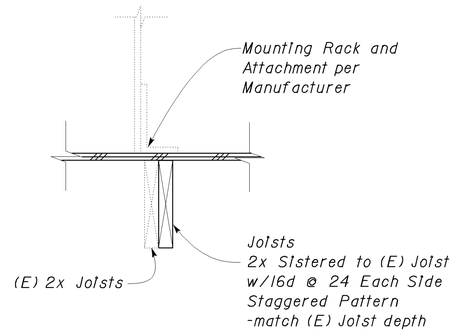
1 WOOD-NO INSULATION

NO SCALE



2 SUPPORT BETWEEN JOISTS

SCALE 1½"= 1'-0"

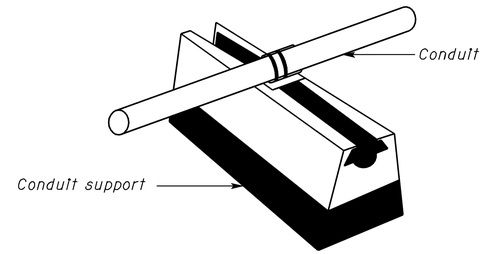


3 SUPPORT AT JOIST

SCALE 1½"= 1'-0"

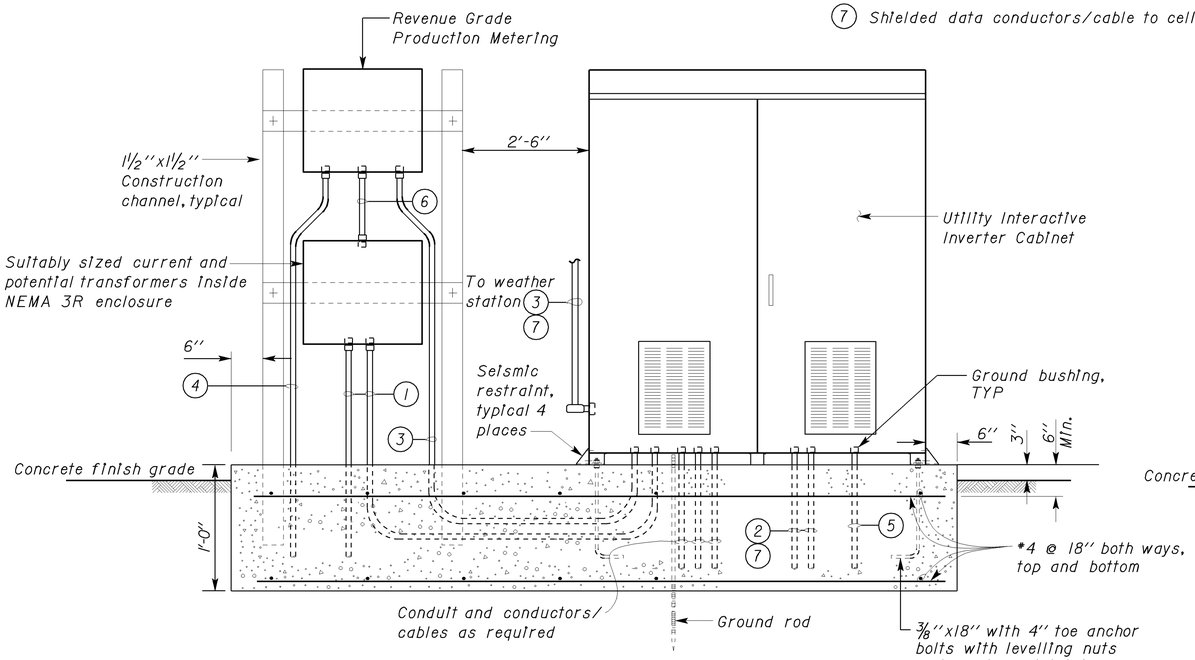
Notes:

1. 3"C, RSC, five conductors; three phase, one neutral and one equipment grounding conductor.
2. 2" C, RSC, with DC conductors and equipment grounding conductor from photovoltaic Array Circuit Combiner Box on the roof.
3. ½"C, RSC, one RS485 modbus cable.
4. ½"C, RSC, 2#12, 1#12G.
5. ½"C, RSC, Category 6 cable to existing TTB inside the Telephone Cabinet.
6. 2" C, RSC, conductors as required.
7. Shielded data conductors/cable to cell temperature sensor at photovoltaic module.



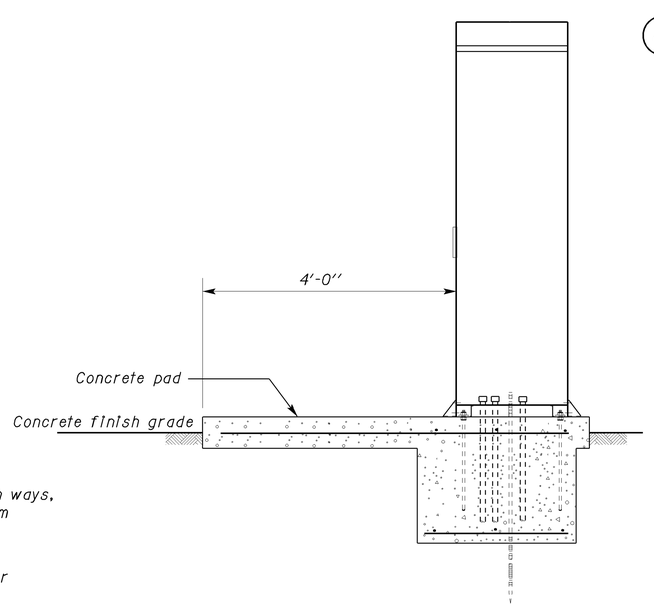
4 ROOF MOUNTED CONDUIT SUPPORT

NO SCALE



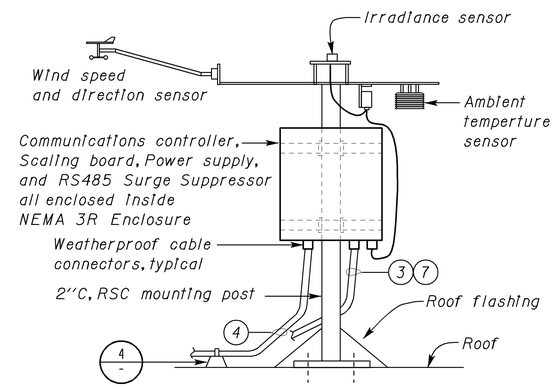
A ELEVATION

NO SCALE



SIDE VIEW

NO SCALE



5 WEATHER STATION

NO SCALE

DESIGN	BY Tommy F.Lee	CHECKED Jesse S.Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 42M5708
DETAILS	BY Dall Zhou	CHECKED Tommy F.Lee			POST MILE
QUANTITIES	BY Tommy F.Lee	CHECKED Jesse S.Sandhu		CU 06146 EA 0AA021	

DISTRICT 6 OFFICE BUILDING PHOTOVOLTAIC SYSTEM

ELEVATION AND DETAILS

SHEET EE-4

DOES SD Imperial Rev.1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY) 8/31/09 12/2/09 — SHEET — OF

29-DEC-2009 13:30

ee_4.dgn