INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
STRUCTURE PLANS	
2	GENERAL PLAN AND LEGEND
3-6	ELECTRICAL PLANS

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

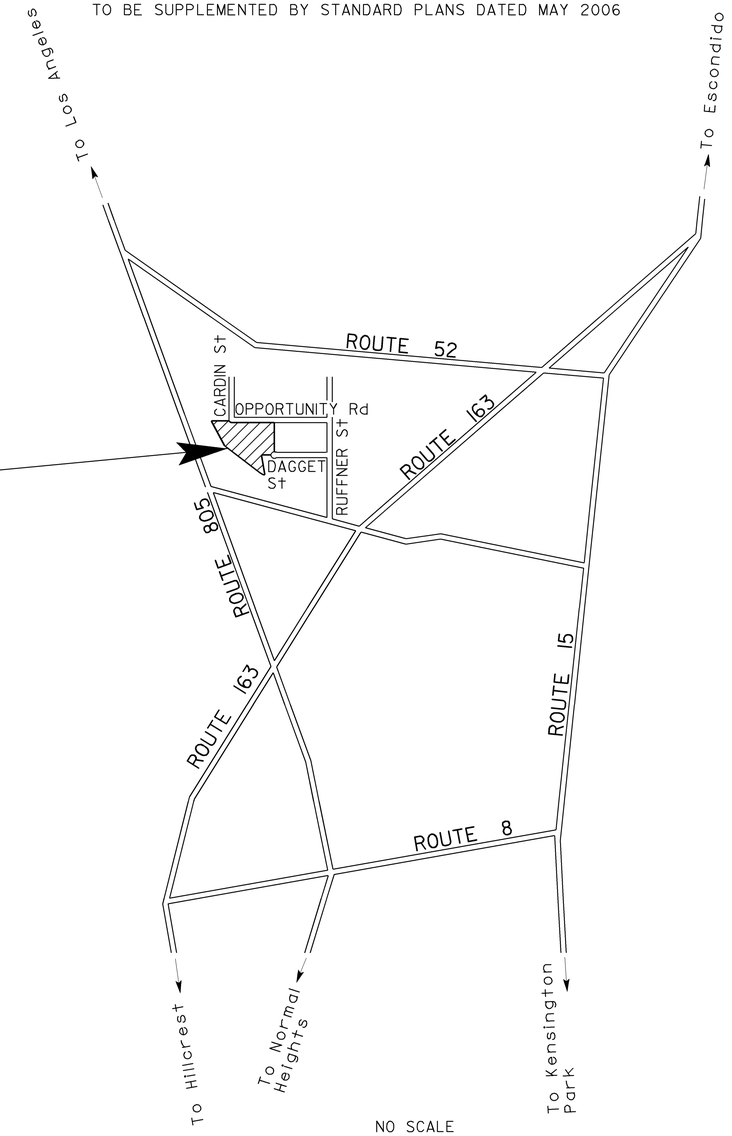
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR BUILDING CONSTRUCTION

IN SAN DIEGO COUNTY
IN SAN DIEGO
AT KEARNY MESA EQUIPMENT SHOP 11
7179 OPPORTUNITY ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION OF CONSTRUCTION

KEARNY MESA EQUIPMENT SHOP
LOCATION CODE No. 5505

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5505		1	6

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: 11-17-09

PHOTOVOLTAIC SYSTEM
CSFM FILE #01-37-11-0027

PROJECT MANAGER: BRUCE LAMBERT
DESIGN ENGINEER: BALDEV S. DEHAL

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

10-5-09
DATE
PROJECT ENGINEER
REGISTERED ELECTRICAL ENGINEER

12-23-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK T. CHEAP
No. E 15795
Exp. 12-31-10
ELEC
STATE OF CALIFORNIA

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.

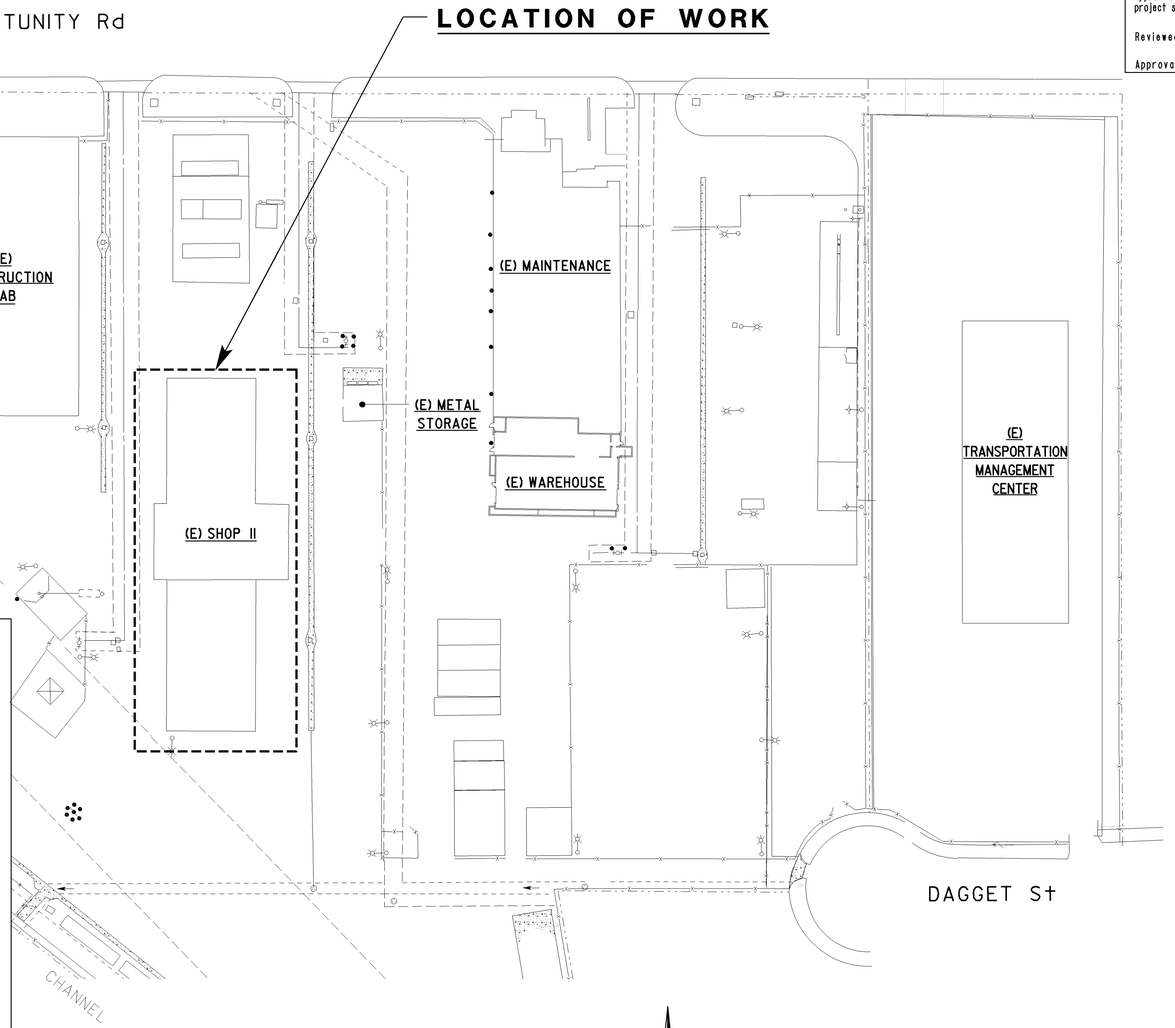
LAST REVISION 10-05-09
DATE PLOTTED => 26-APR-2010
TIME PLOTTED => 16:32

CONTRACT No. 11-0AA024

BORDER LAST REVISED 8/1/2008 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => kandreas DGN FILE => title.dgn | CU 11228 | EA 0AA021

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
GP	GENERAL PLAN AND LEGEND
ELECTRICAL	
EE-1	PARTIAL SITE PLAN
EE-2	SINGLE LINE DIAGRAM GRID-TIE PV SYSTEM
EE-3	ROOF PLAN
EE-4	ELEVATION AND DETAILS



PLAN

SCALE 1" = 60'-0"

BUILDING DATA

BUILDING TYPE: UBC & CALIFORNIA CODE OF REGULATIONS TITLE 24 III N

BUILDING BUILT IN 1991

OCCUPANCY GROUP: B2, H4

FIRE RESISTANCE OF EXTERIOR WALLS:

OFFICE/EQUIPMENT SHOP

AREA 1 - REPAIR SHOP
A. ACTUAL BUILDING AREA
H4 7,035 SF
B. ALLOWABLE BUILDING AREA
H4 7,500 X 2 FLOORS = 15,000 SF

AREA 2 - OFFICE
A. ACTUAL BUILDING AREA
H4 8,400 SF
B2 61 X 106 X 2 FLOORS = 12,932 SF
B. ALLOWABLE BUILDING AREA
H4 7,500 X 2 FLOORS + 100% (SEPARATION) = 30,000 SF
B2 12,000 X 2 FLOORS + 100% (SEPARATION) = 48,000 SF

**AREA RATIO OF OCCUPANCIES:*

$$\frac{8,400\ SF}{30,000\ SF} + \frac{12,392\ SF}{48,000\ SF} = .28 + .27 = .55 < 1.0$$

PROPOSED AREA FOR PV PANELS: 7,164 SF

ROOF DATA
BUILT UP ROOFING TOPPED WITH GRAVEL OVER PLYWOOD ROOF SHEATHING OVER GLUELAM BEAMS AND 2X ROOF JOISTS

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

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

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: MIKE TANAKA

Approval date: 11-17-09

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5505		2	6

REGISTERED ELECTRICAL ENGINEER — 10-5-09 DATE

REGISTERED PROFESSIONAL ENGINEER — MARK T. CHEAP No. E 15795 Exp. 12-31-10 ELEC — STATE OF CALIFORNIA

12-23-09
PLANS APPROVAL DATE

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LEGEND

(2) ½"C, PVC, 2#12
- CONDUCTOR INFO (PER CONDUIT)
- CONDUIT TYPE
- CONDUIT SIZE
- NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)

- CONDUIT EXPOSED
- MC — CONDUIT, METALLIC UNDERGROUND
- PVC — CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
- CONDUIT, FLEXIBLE
- CONDUIT, TURN UP
- CONDUIT, TURN DOWN
- CIRCUIT BREAKER
- GROUNDING ELECTRODE
- ENCLOSURE BOND
- ADAPTER, ONE TYPE CONDUIT TO ANOTHER
- (J) EXISTING JUNCTION BOX
- EXISTING UNDERGROUND CONDUIT AND CONDUCTORS - REMOVE
- -E----E- EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
- A / EE-2 — SECTION/ELEVATION LETTER, SHEET NUMBER
- 1 / EE-2 — DETAIL NUMBER, SHEET NUMBER

ABBREVIATIONS

Ø	PHASE	MDP	MAIN DISTRIBUTION PANEL
A	AMPERE	MIN	MINIMUM
AC	ALTERNATING CURRENT	MT	EMPTY CONDUIT
Ah	AMPERES - HOUR	(N)	NEW
AL	ALUMINUM	P	POLE
BC	BATTERY CHARGER	PB	PULL BOX
BLDG	BUILDING	PTC	PV USA TEST CONDITIONS
C	CONDUIT	PV	PHOTOVOLTAIC
CB	CIRCUIT BREAKER	STC	STANDARD TEST CONDITIONS
CKT	CIRCUIT	TYP	TYPICAL
DC	DIRECT CURRENT	V	VOLTS
DP	DUPLEX RECEPTACLE		
(E)	EXISTING		
EO	ELECTRICALLY OPERATED		
G	GROUND		
GEN	GENERATOR		
JB	JUNCTION BOX		
MB	MAIN BREAKER		
MC	METALLIC CONDUIT		

DESIGN SUPERVISOR — DESIGN ENGINEER

	BY	CHECKED
DESIGN	Baldev S. Dehal	Mark Cheap
DETAILS	Kathl Andreasen	Baldev S. Dehal
QUANTITIES	Baldev S. Dehal	Mark Cheap

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57M5505
POST MILE

KEARNY MESA EQUIPMENT SHOP 11 PHOTOVOLTAIC SYSTEM

GENERAL PLAN AND LEGEND

SHEET GP

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 11228
EA 0AA021

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 8/18/09 | 8/25/09 | 9/11/09 | 10/5/09

SHEET OF

DOES SD Imperial Rev. 1/07

26-APR-2010 16:30

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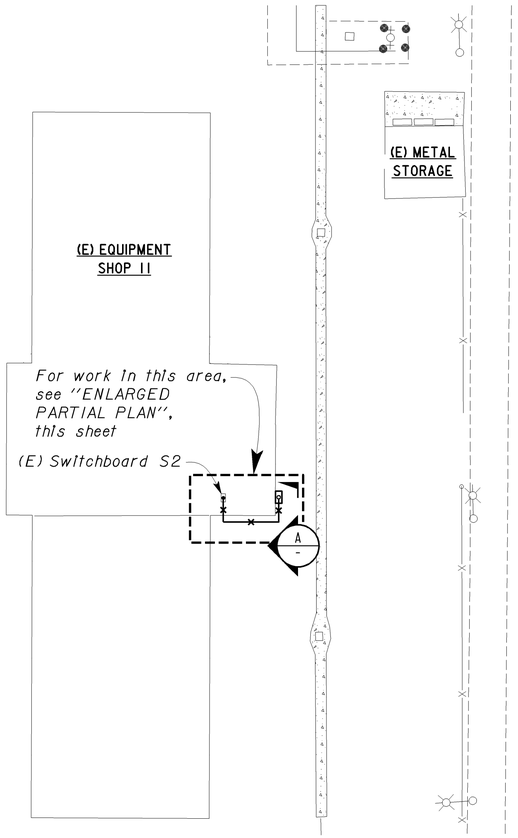
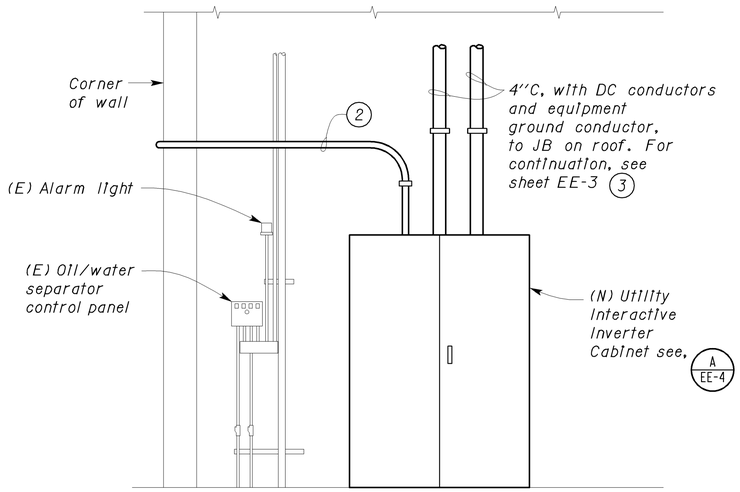


PLAN

SCALE 1" = 30'-0"

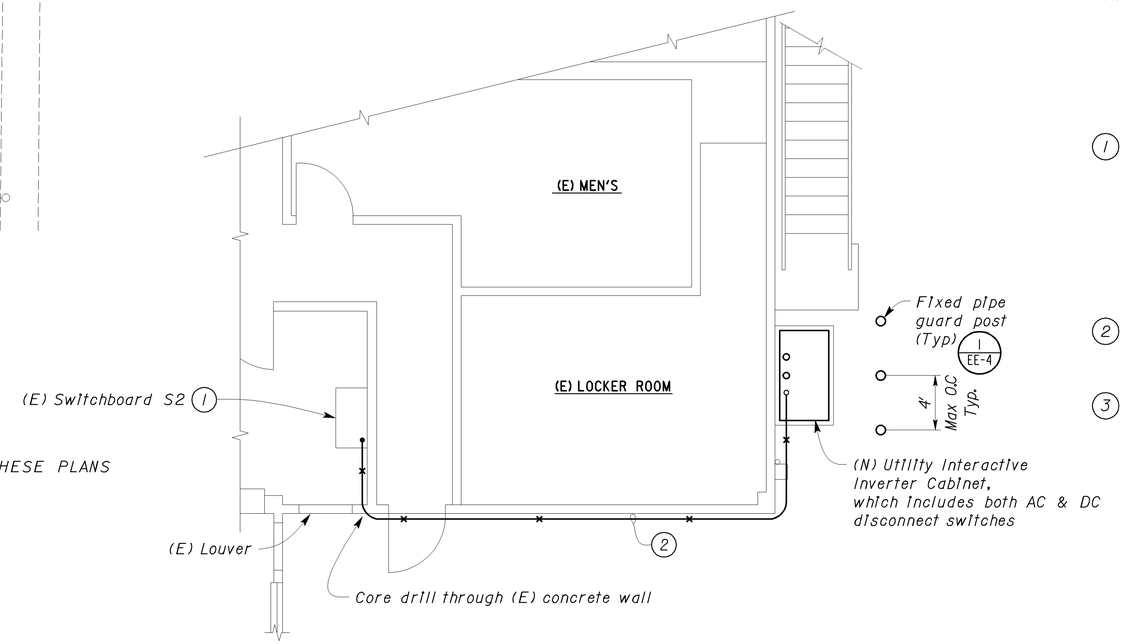
EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS



A ELEVATION

SCALE 1/2" = 1'-0"

Note: Fixed pipe guard post not shown for clarity.



ENLARGED PARTIAL PLAN

SCALE 1/4" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: MIKE TANAKA

Approval date: 11-17-09

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5505		3	6

REGISTERED ELECTRICAL ENGINEER — 10-5-09 DATE

REGISTERED PROFESSIONAL ENGINEER — MARK T. CHEAP — No. E 15795 — Exp. 12-31-10 — ELEC — STATE OF CALIFORNIA

12-23-09

PLANS APPROVAL DATE

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General Notes:

A. The Contractor shall verify true north prior to installation of PV 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 PV electrical power generation system, from PV source to the existing Switchboard S2, to be equal to or less than 2%.

Upon occurrence of any kind of fault at any point in the system, overcurrent protective devices shall trip within 1/2 cycle.

C. Upon a written request, the Contractor may obtain as-built drawings from the Engineer in the field.

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

E. Location of all existing equipment and conduit systems are not shown. Contractor shall verify the exact location of all equipment and conduit systems in the field where required.

F. Saw cut existing paved surfaces, at places where required for installation of underground conduit system, and repair disturbed surfaces to match existing.

Notes:

(1) Existing Switchboard S2 is Industrial Electric Manufacturing, Inc., 600-ampere, 480/277-volt, 3-phase, 4-wire, 600-ampere bus bars with 600-ampere main circuit breaker. Install 3-pole, GE type "TED" molded case circuit breaker, including mounting hardware, in the blank space, for connecting PV system. New circuit breaker shall have interrupting capacity (AIC) of 18,000 symmetrical at 480 volts. Install screw-on type nameplate with letter height of 1/4" to read "PHOTOVOLTAIC SYSTEM" under new 3-pole circuit breaker.

(2) 2"C, rigid steel conduit. Install five conductors (Three phase, one neutral and one equipment grounding conductor) to newly installed 3-pole circuit breaker inside existing Switchboard S2.

(3) Paint conduits to match existing wall color.

DESIGN	BY Baldev S. Dehal	CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5505	KEARNY MESA EQUIPMENT SHOP 11 PHOTOVOLTAIC SYSTEM	SHEET EE-1
DETAILS	BY Kathi Andreasen	CHECKED Baldev S. Dehal			POST MILE	PARTIAL SITE PLAN	
QUANTITIES	BY Baldev S. Dehal	CHECKED Mark Cheap		CU 11228 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) 8/28/09 8/25/09 9/17/09 10/5/09 — SHEET — OF

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5505		4	6

REGISTERED ELECTRICAL ENGINEER — 10-5-09 DATE

REGISTERED PROFESSIONAL ENGINEER — MARK T. CHEAP — No. E 15795 — Exp. 12-31-10 — ELEC — STATE OF CALIFORNIA

12-23-09
PLANS APPROVAL DATE

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Photovoltaic Module

PV modules shall be 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 an 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 circuit breakers for input circuits, two isolated DC bus bars, ground bus bar, all enclosed inside NEMA 3R lockable cover enclosure. The combiner box shall be UL 1741 listed. Wiring of PV Array Circut Combiner Box #1 and #2 are shown. Wiring for PV Array Circut Combiner Box #3 and #4 are similar.

PV array circuit combiner box shall have the following components:
- DIN rail mounted circuit breakers.
- 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 20 kA (8/20 micro second) induced transient surge type, and compatible to use with grounded PV arrays

Utility Interactive Inverter Cabinet

Utility Interactive Inverter cabinet shall be outdoor type, factory assembled cabinet consisting of the following equipment:
- DC/AC Inverter:
  DC/AC Inverter rated at maximum continuous output power of 75 kW (75 kVA), 480/277 V, 3-phase, 4-wire, at a power factor of 0.99 or greater, efficiency 96%, with input operating voltage range between 315 to 600 VDC, and maximum DC input current shall be 248 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 an eligible California Solar Initiative (CSI) DC/AC Inverter manufacturer.
- 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 75 kVA, 480/277 V, 3-phase, 4-wire, output isolation type transformer.
- Ground fault protection.
- Integrated AC and DC surge protections.
- Integrated AC and DC contactors.
- Pre-charge circuit.
- Human Machine Interface (HMI):
  DC/AC 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.
- Local and remote monitoring systems capabilities.
- AC ground bus bars.
- NEMA 3R enclosure:
  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 Design Category D compliance.

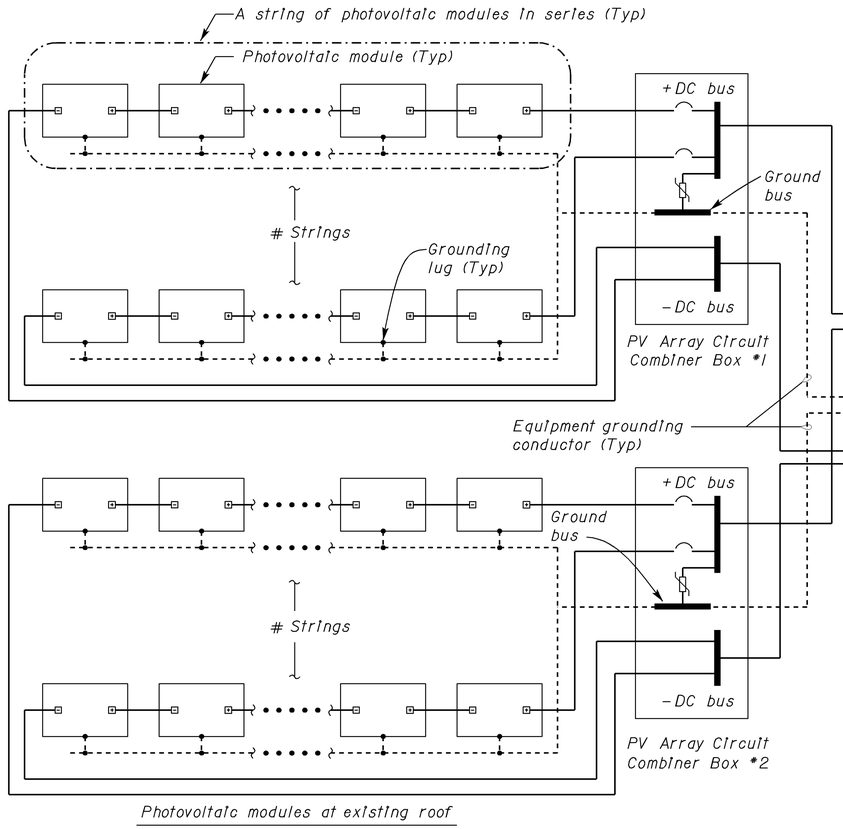
General Notes:

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.

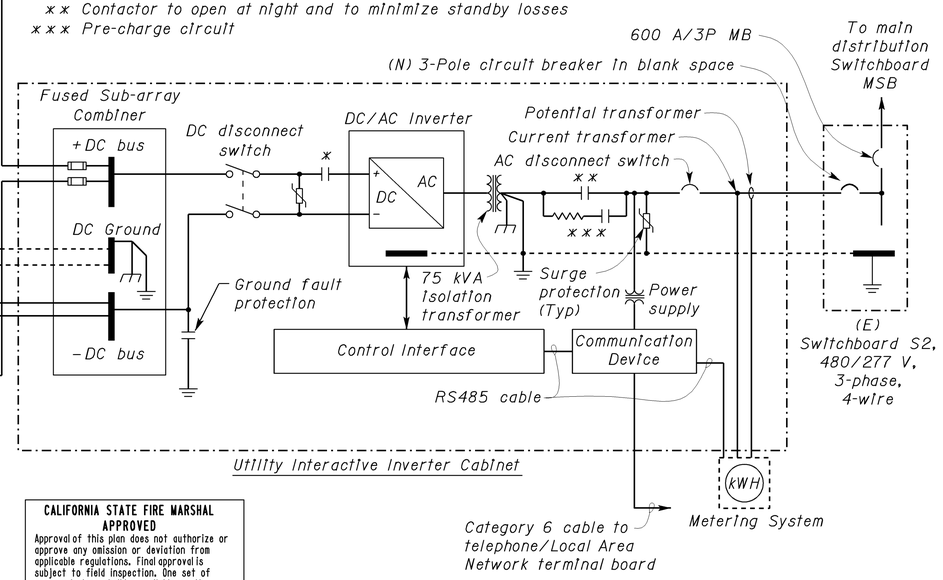
B. Solar PV Installation shall comply with the latest guideline from California Department of Forestry & Fire Protection, Office of the State Fire Marshal and latest Program Handbook from California Solar Initiative (CSI), unless specifically shown otherwise on these plans.

Metering System

Metering System shall consist of the following equipment:
- Revenue Grade Production Meter
- Power supply
- RS485 Surge Suppressor



* Contactor for backfeed protection and automatic array fault isolation
** Contactor to open at night and to minimize standby losses
*** Pre-charge circuit



CALIFORNIA STATE FIRE MARSHAL
APPROVED
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Reviewed by: MIKE TANAKA
Approval date: 11-17-09

Photovoltaic System Requirements

Photovoltaic system complete design and installation details, inclusive of all Engineering calculations 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 at existing roof shall have a minimum CEC-AC rating of 65.0 kW. Number of PV modules 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 highest continuous 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.

DESIGN	BY Baldev S. Dehal	CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5505 POST MILE
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal			
QUANTITIES	BY Baldev S. Dehal	CHECKED Mark Cheap			

KEARNY MESA EQUIPMENT SHOP 11
PHOTOVOLTAIC SYSTEM
SINGLE LINE DIAGRAM
GRID-TIED PV SYSTEM

SHEET EE-2

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 11228
EA 0AA021

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8/18/09 | 8/28/09 | 8/28/09 | 9/17/09 | 10/5/09 | 12/23/09

SHEET OF

26-APR-2010 16:30

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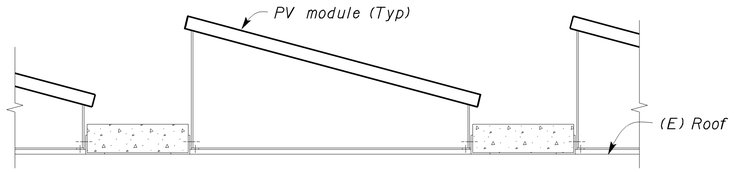
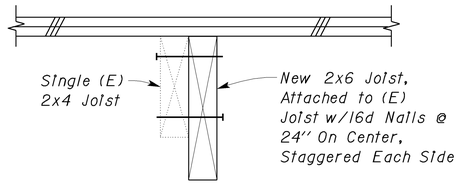


1 SELF-BALLASTED PANEL DETAIL

NO SCALE



2 ROOF FRAMING MODIFICATION DETAIL

NO SCALE

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 2 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 PV modules and PV Array Circuit Combiner Boxes are not shown.*

G. *Modify entire roof framing per Detail 2, for all 2x4 roof joists that have not been doubled. New joist shall be Douglas Fir #2 or better, joist span 7'-8" ± (Typical), 8'-0" (Max.), total 840.*

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5505		5	6

REGISTERED ELECTRICAL ENGINEER — 10-5-09 DATE

REGISTERED PROFESSIONAL ENGINEER — MARK T. CHEAP — No. E 15795 — Exp. 12-31-10 — ELEC — STATE OF CALIFORNIA

12-23-09
PLANS APPROVAL DATE

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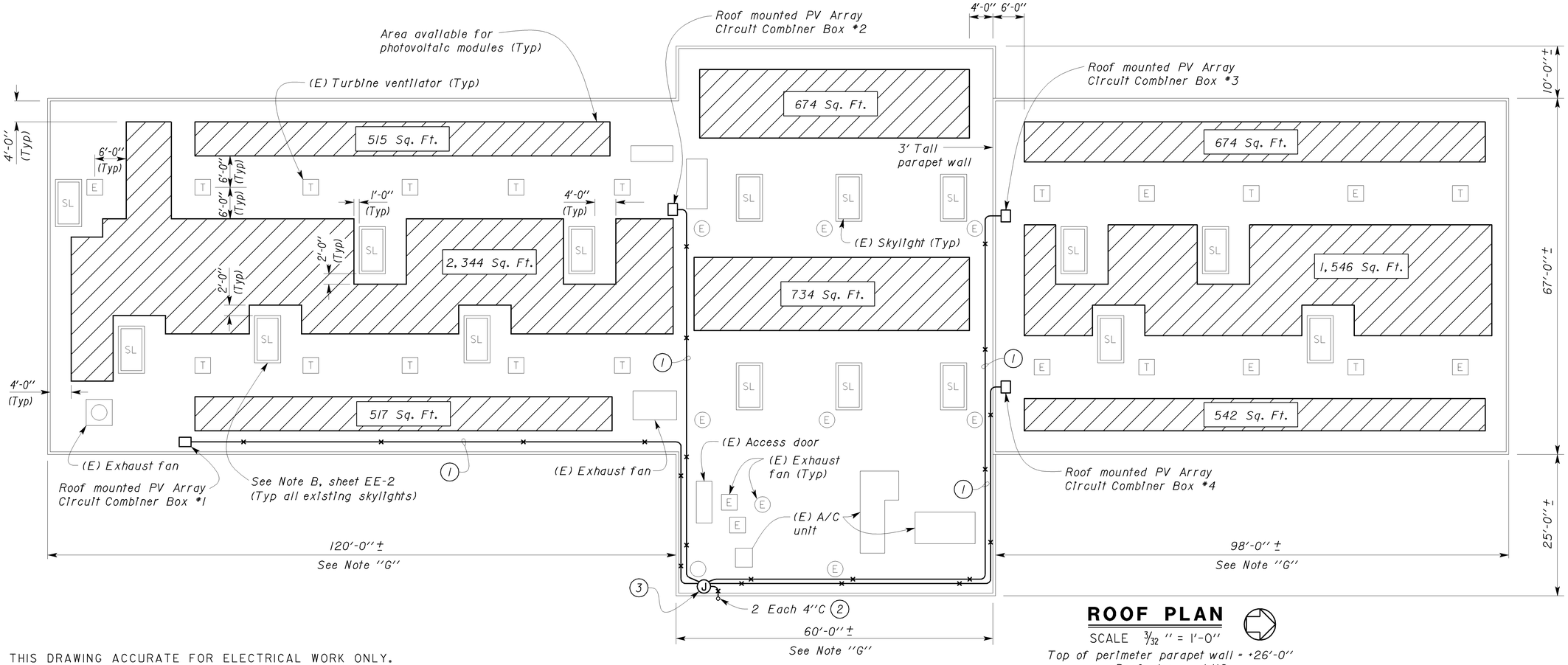
Notes:

1. *2"C, with DC conductors and equipment grounding conductor.*
2. *Down to new Utility Interactive Inverter Cabinet. For continuation see sheet EE-1.*
3. *NEMA 3 junction box.*



ROOF PLAN

SCALE 3/32 " = 1'-0"

Top of perimeter parapet wall = +26'-0"
Roof slope = 1/12

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

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Reviewed by: MIKE TANAKA

Approval date: 11-17-09

DESIGN	BY Baldev S. Dehal	CHECKED Mark Cheap	
DETAILS	BY Kathi Andreasen	CHECKED Baldev S. Dehal	
QUANTITIES	BY Baldev S. Dehal	CHECKED Mark Cheap	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

CU 11228
EA 0AA021

BRIDGE NO. 57M5505
POST MILE

KEARNY MESA EQUIPMENT SHOP 11 PHOTOVOLTAIC SYSTEM

ROOF PLAN

SHEET EE-3

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	8/26/09	8/25/09	9/10/09	9/11/09	10/5/09			

26-APR-2010 16:30

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED ELECTRICAL ENGINEER — 10-5-09 DATE

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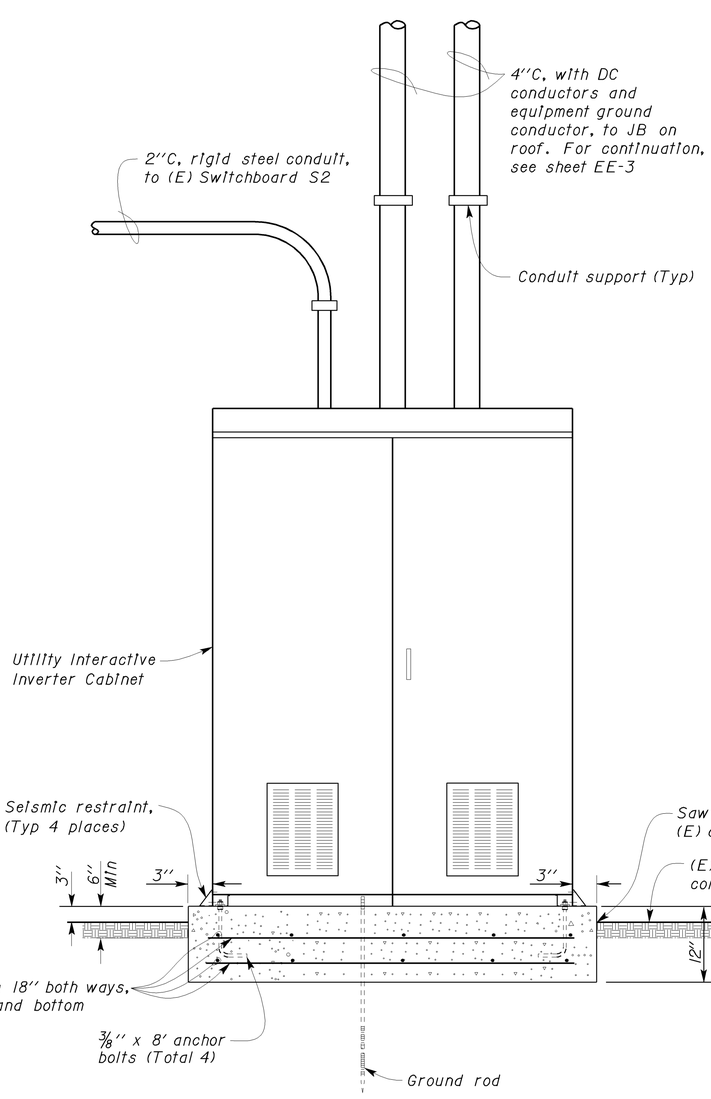
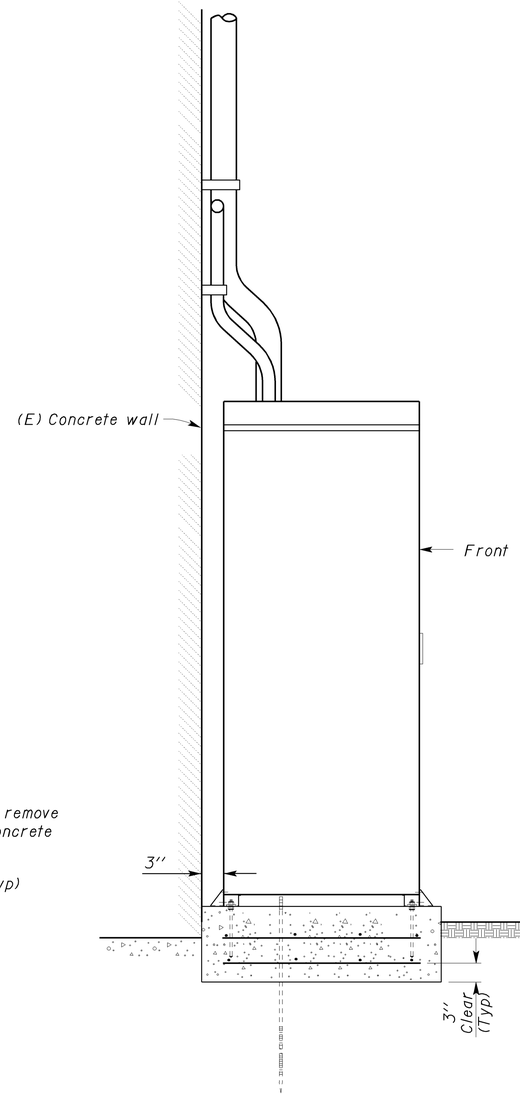


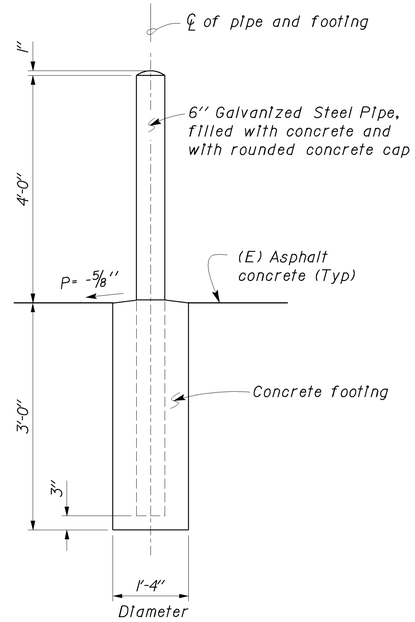
FRONT VIEW



SIDE VIEW

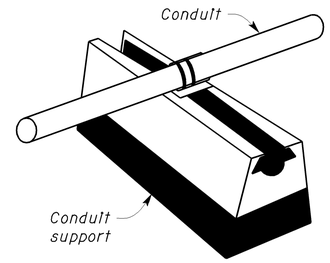
A ELEVATION

NO SCALE



1 FIXED PIPE GUARD POST

NO SCALE



2 ROOF EXPOSED CONDUIT SUPPORT

NO SCALE

DESIGN	BY Baldev S. Dehal	CHECKED Mark Cheap	
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal	
QUANTITIES	BY Baldev S. Dehal	CHECKED Mark Cheap	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57M5505
POST MILE

KEARNY MESA EQUIPMENT SHOP 11 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

CU 11228
EA 0AA021

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)							SHEET	OF
8/28/09	8/25/09	8/25/09	8/31/09	9/17/09	10/5/09			

26-APR-2010 16:30

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