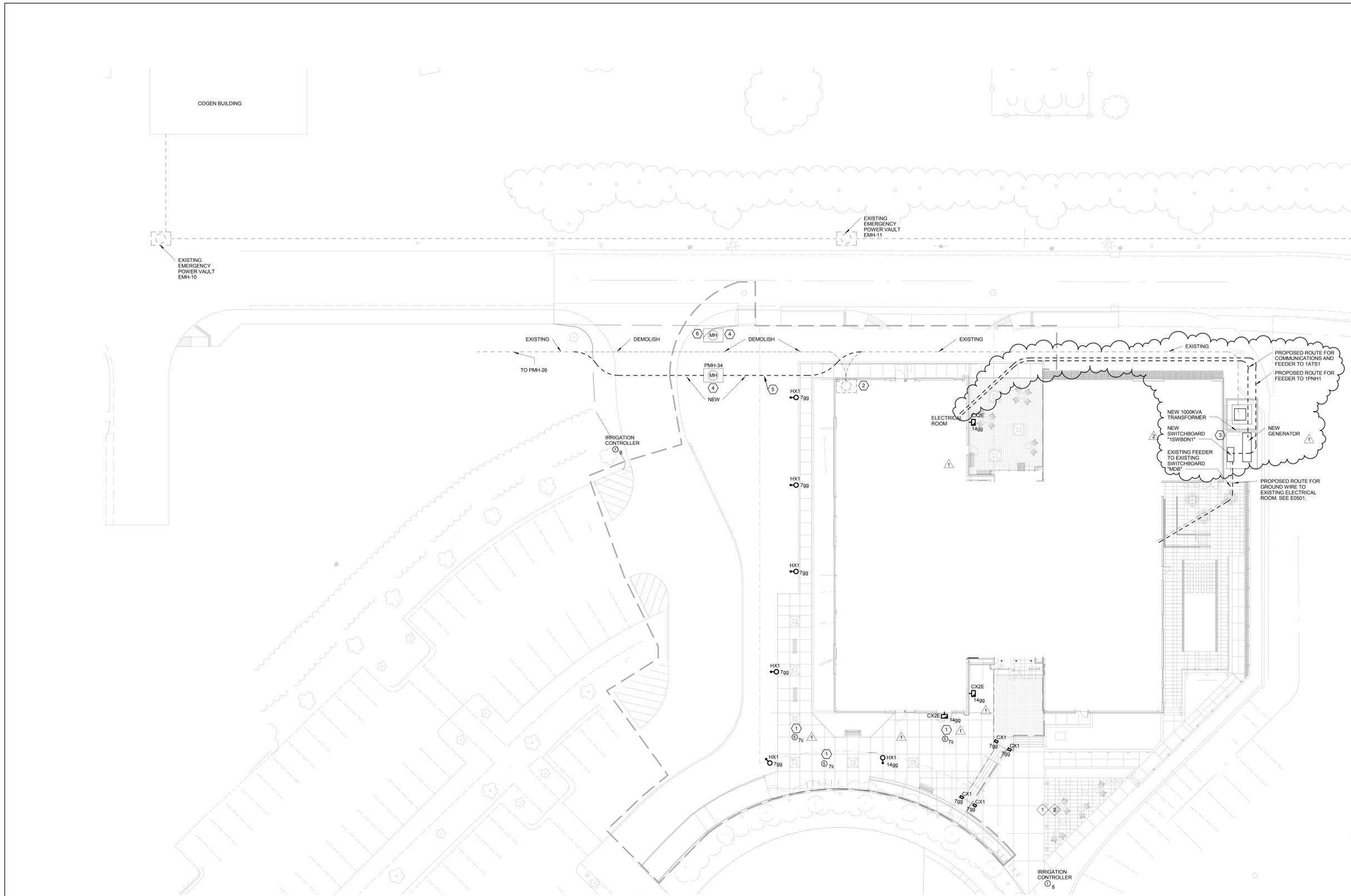


A  
three inches = one foot  
B  
one and one-half inches = one foot  
C  
one inch = one foot  
D  
three-quarters inch = one foot  
E  
one-half inch = one foot  
F  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



1 SITE PLAN  
1/16" = 1'-0"

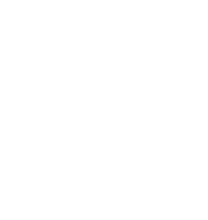
GENERAL NOTES

- SEE CIVIL DRAWINGS FOR COMPLETE SITE PLAN.
- CONNECTION FOR SIGNAGE.
- EXISTING MANHOLE TO BE REMOVED. PROVIDE A NEW MANHOLE AND CONDUITS/FEEDER AS SHOWN. SEE CIVIL DRAWINGS FOR MORE INFORMATION.
- REFER TO E0501, E701 AND E702 FOR MORE INFORMATION ABOUT WORK IN THIS AREA.
- PROVIDE RECEPTACLE FOR SUMP PUMP IN EACH MANHOLE WIRE SUMP PUMPS TO 1LN12-16 AND 1LN12-18, RESPECTIVELY. REFER TO 6E0702 FOR MANHOLE DIMENSIONS.
- (2) SETS OF #20, 15KV CONDUCTOR AND 1#40G IN 4" AND (2) SPARE 4" (TOTAL OF 4) CONDUITS). SEE 7E0702 FOR DUCT BANK CONFIGURATION.
- SEE TELECOM DRAWINGS AND SPECIFICATIONS FOR SCOPE OF WORK REGARDING NEW TELECOM MANHOLE.
- PROPOSED ROUTE OF CONDUIT FROM ATS TO EXISTING EMERGENCY POWER VAULT. WIRE AND TERMINATIONS BY OTHERS. COORDINATE THIS WORK WITH OWNER.

BRANCH CIRCUIT NOTES

- UNLESS OTHERWISE NOTED, WIRE ALL 277V DEVICES TO PANELBOARD 1LNH1 LOCATED IN ELEC RM 165.
- UNLESS OTHERWISE NOTED, WIRE ALL 120V DEVICES TO PANELBOARD 1LN12 LOCATED IN ELEC RM 165.

LEGEND



ISSUE FOR BID

9		
8		
7		
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2	ADDENDUM 3	06/26/2014
1	ADDENDUM 2	05/16/2014
	Revisions	Date

CONSULTANTS:

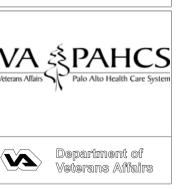
Seals and Signatures

ARCHITECT/ENGINEERS:  
**CANNONDESIGN**  
201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170  
Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago  
Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix  
St. Louis ■ San Francisco ■ Shanghai ■ Toronto  
Vancouver ■ Victoria ■ Washington DC

Drawing Title  
**SITE PLAN**  
Approved: Project Director  
Approver

Project Title  
**VA SIMULATION CENTER**  
Location  
Veterans Affairs Palo Alto Health Care System  
3801 Miranda Ave, Palo Alto, CA 94304  
Date  
JUNE 14, 2013  
Checked  
RJG  
Drawn  
JSS

VA Project Number:  
**640-385**  
Building Number:  
**105**  
Drawing No.  
**E0051**





GENERAL NOTES

KEY NOTES

- INTERCEPT SECONDARY FEEDERS FROM DEMOLISHED TRANSFORMER. RE-ROUTE TO NEW "1SWBDN1" AS SHOWN.
- REMOVE EXISTING 500 KVA UTILITY TRANSFORMER AND DEMOLISH EXISTING CONCRETE PAD. NEW 1000 KVA TRANSFORMER AND ASSOCIATED CONCRETE PAD WILL BE INSTALLED IN THE SAME RELATIVE POSITION. SEE 8/0701, SPECIFICATION 26 1219 AND STRUCTURAL DRAWINGS FOR NEW PAD REQUIREMENTS.
- RECONNECT EXISTING MV PRIMARY FEEDERS. SIZES ARE SHOWN ON E0551.
- NEW GROUND WIRE TO EXISTING GROUND TERMINAL BUS IN EXISTING ELECTRICAL ROOM.
- SEE 8/0702, SPECIFICATION 26 2413 AND STRUCTURAL DRAWINGS FOR CONCRETE PAD INFORMATION. CONFIRM FINAL FOOTPRINT WITH SWITCHBOARD AND GENERATOR MANUFACTURERS.

LEGEND

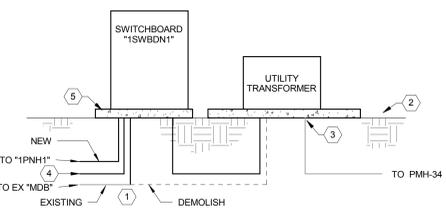
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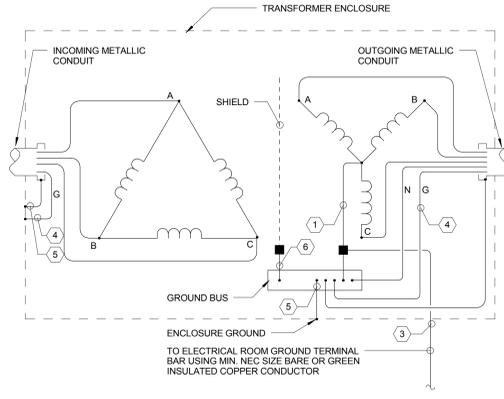
VA Project Number: **640-385**  
 Building Number: **105**  
 Drawing No. **E0701**

**VA PAHCS**  
 Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

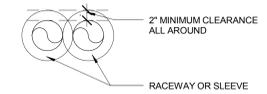


4 SERVICE ENTRANCE DETAILS

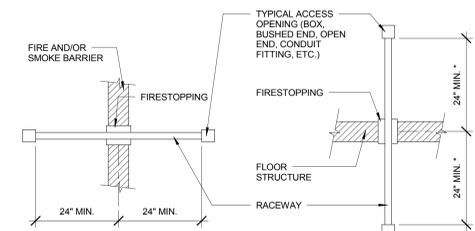


- NOTES
- GROUNDING CONDUCTOR (NEUTRAL)
  - FUSION WELD (OR INDEPENDENT TRANSFER NEUTRAL LUGS)
  - GROUNDING ELECTRODE CONDUCTOR
  - EQUIPMENT GROUNDING CONDUCTOR
  - BONDING JUMPER
  - ELECTROSTATIC SHIELD GROUNDING CONDUCTOR (IF USED)

3 TRANSFORMER GROUNDING



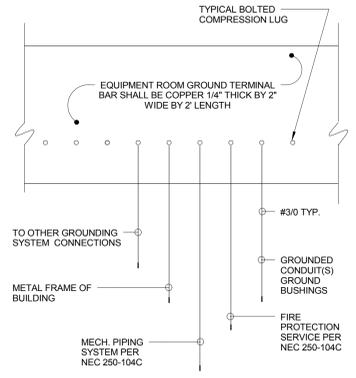
CLEARANCE REQUIREMENTS



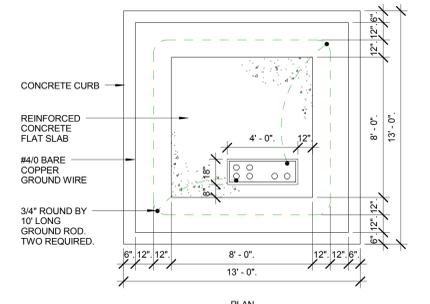
ELEVATION

ELEVATION

2 PENETRATION THROUGH VERT. HORIZ. FIRE AND SMOKE BARRIER

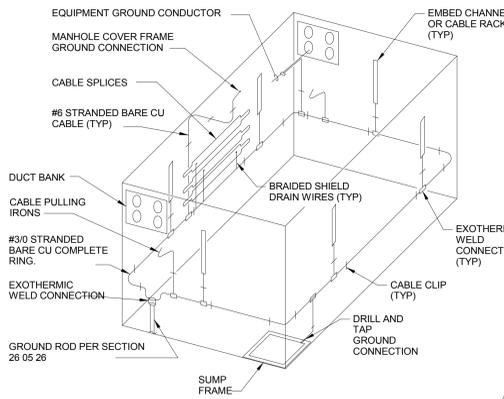


1 ELECTRICAL ROOM GROUND TERMINAL BAR

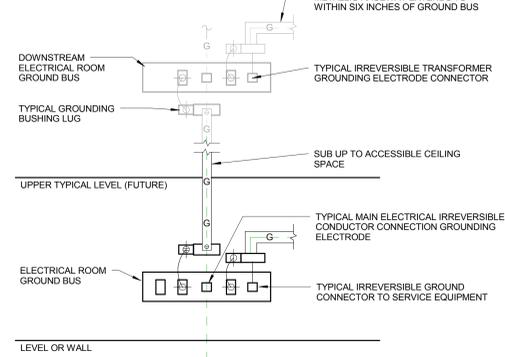


- NOTES
- TOP EDGE AND CORNERS OF CONCRETE PAD SHALL BE CHAMFERED.
  - CONCRETE PAD SHALL BE 3,500 PSI, 8" THICK MIN.
  - VERIFY DIMENSIONS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.
  - FINAL DIMENSIONS OF OIL CONTAINMENT SHALL BE COORDINATED WITH TRANSFORMER MANUFACTURER AND SHALL BE AT LEAST 125% OF THE VOLUME OF OIL CONTAINED IN TRANSFORMER. (DIMENSIONS SHOWN ARE RELEVANT TO 125% OF 320 GAL)
  - COORDINATE DRAIN REQUIREMENTS IN THE FIELD IN ACCORDANCE WITH SPECIFICATION 26 1219, 3.1.E.

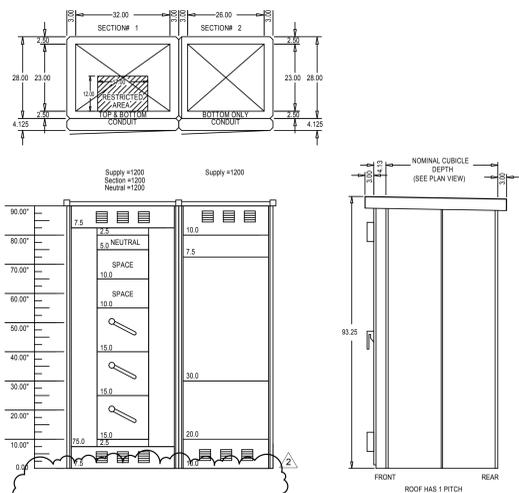
8 1000 KVA TRANSFORMER PAD & CONTAINMENT TRENCH  
 1/8" = 1'-0"



7 MANHOLE GROUNDING DETAIL



6 PHYSICAL GROUNDING REQUIREMENTS



5 EXTERIOR SWITCHBOARD "1SWBDN1" DETAILS

CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

**CANNON DESIGN**

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Drawing Title

ELECTRICAL DETAILS

Project Title

VA SIMULATION CENTER

VA Project Number:

640-385

Building Number:

105

Drawing No.

E0701

Approved: Project Director

Approver

Location

Veterans Affairs Palo Alto Health Care System  
 3801 Miranda Ave, Palo Alto, CA 94304

Date

JUNE 14, 2013

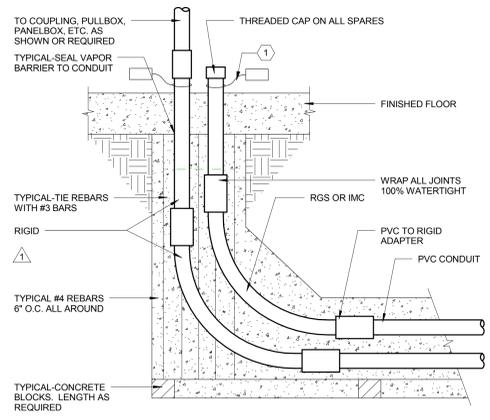
Checked

RJG

Drawn

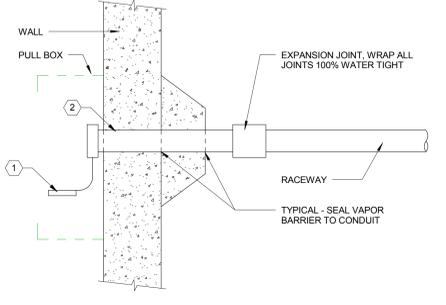
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2	ADDENDUM 3	06/26/2014
1	ADDENDUM 2	05/16/2014
Revisions		Date



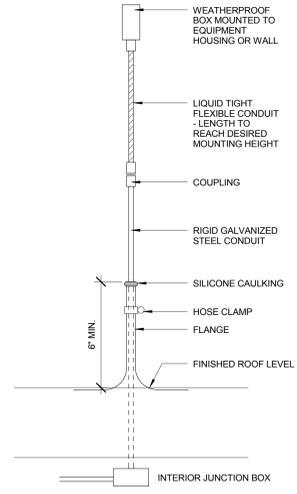
**NOTES:**  
 1. AT EACH CONDUIT STUB-UP, AFFIX ENGRAVED PLASTIC NAMEPLATE INDICATING CONDUIT NO. OR CIRCUIT IDENTIFICATION. ATTACH WITH NYLON CABLE TIE.

4 CONDUIT STUB-UP INSIDE BUILDING

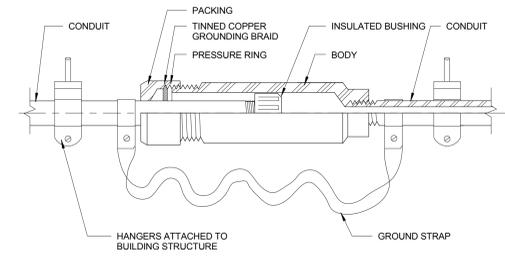


**NOTES:**  
 1. AT EACH CONDUIT, PROVIDE AN ENGRAVED PLASTIC NAMEPLATE, INDICATING CONDUIT NO., AND ATTACH TO CONDUIT WITH NYLON CABLE TIE.  
 2. PROVIDE CONDUIT SLEEVE AND "LINK SEAL" FOR ALL PENETRATIONS BELOW GRADE.

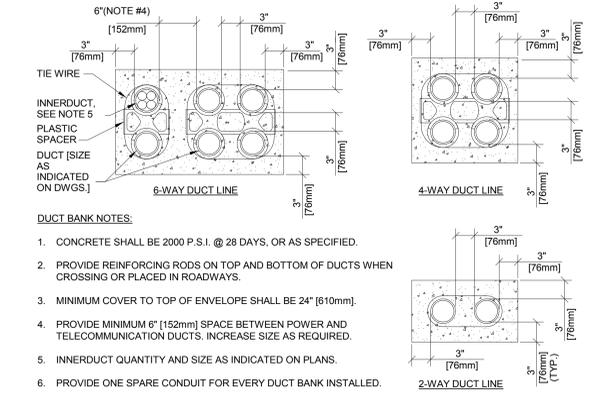
3 TYPICAL DIRECT BURIAL CONDUIT PENETRATION INTO BUILDING



2 RACEWAY ROOF PENETRATION

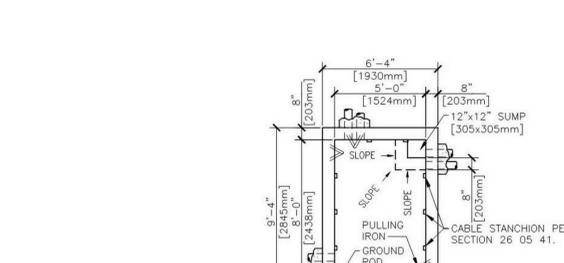
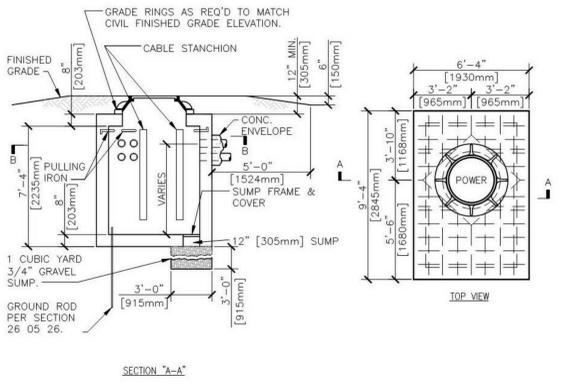


1 CONDUIT EXPANSION FITTING



**DUCT BANK NOTES:**  
 1. CONCRETE SHALL BE 2000 P.S.I. @ 28 DAYS, OR AS SPECIFIED.  
 2. PROVIDE REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.  
 3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24\"/>

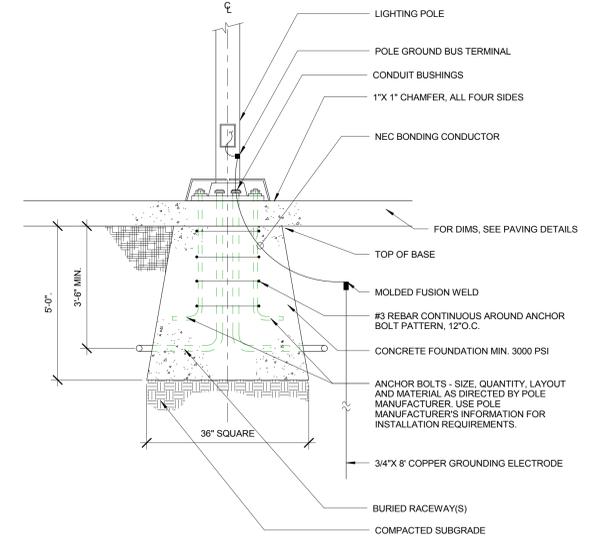
7 ELECTRICAL AND TELECOM DUCT BANK DETAIL



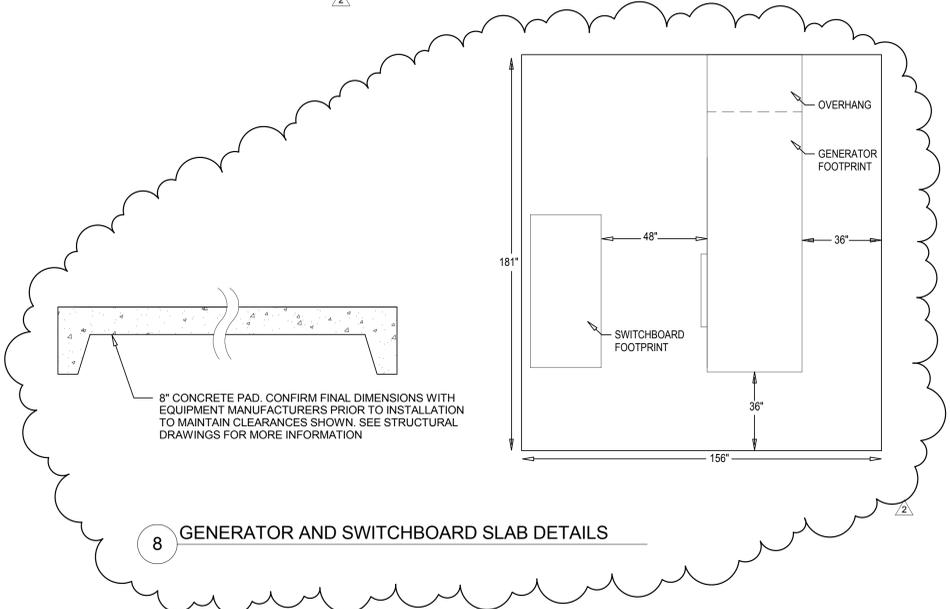
**GENERAL NOTES:**  
 1. INCLUDE ALUMINUM LADDER (NOT SHOWN FOR CLARITY)

6 POWER & TELECOM MANHOLES

**NOTES:**  
 1. IN SLOPED, NON-PAVED AREAS, INSTALL SUCH THAT TOP OF BASE IS 6\"/>



5 LIGHTING POLE FOUNDATION



8 GENERATOR AND SWITCHBOARD SLAB DETAILS

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

9		
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7		
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2	ADDENDUM 3	06/26/2014
1		
Revisions		Date

CONSULTANTS:	

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Drawing Title	ELECTRICAL DETAILS
Approved: Project Director	Approver

Project Title	VA SIMULATION CENTER
Location	Veterans Affairs Palo Alto Health Care System 3801 Miranda Ave, Palo Alto, CA 94304
Date	JUNE 14, 2013
Checked	RJG
Drawn	JSS

VA Project Number:	640-385
Building Number:	105
Drawing No.	E0702

