

**GENERAL NOTES:**

1. CONTRACTOR SHALL CONFIRM LOCATIONS OF ALL EQUIPMENT ON THESE PLANS AND COORDINATE W/ ARCHITECTURAL DRAWINGS AND THE VAMC FOR EXACT LOCATIONS.
2. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
3. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
4. THE SHUT OFF, DEMOLITION, CONSTRUCTION AND ACTIVATION OF THE ELECTRICAL SYSTEMS TO BE COORDINATED WITH THE PROJECT PHASING - SEE SHEET A-100.

**KEYED NOTES:**

- 1) PROVIDE MAIN 90AMP FUSED DISCONNECT. MAGNETIC CONTACT, AND EMERGENCY OFF PUSH BUTTON.
- 2) POWER INPUT DISTRIBUTION BOX (PIDB) FURNISHED BY EQUIPMENT SUPPLIER. MOUNT PIDB AT 2'-0" AFF TO CENTER. AT PIDB, PROVIDE 3X3 GROMMET MATERIAL.
- 3) PROVIDE 10"X3 1/2" SURFACE WALL DUCT WITH MINIMUM OF 2 DIVIDERS. MOUNT 6" AFF AT CENTER.
- 4) POWER DISTRIBUTION UNIT (CTPM) FURNISHED BY EQUIPMENT SUPPLIER. AT CTPM PROVIDE FLUSH MOUNTED 12X16X4 INCH BOX WITH SPLIT COVER PLATE. MOUNT BOX AT 2'-0" AFF TO CENTER. AT CTPM LOCATION, PROVIDE 3X3 INCH DIA. OPENING IN SURFACE WALL DUCT WITH 12 INCHES OF GROMMET MATERIAL. AT CTPM, PROVIDE THE FOLLOWING ADDITIONAL MATERIAL:
  - A) (2) 2 INCH 90 DEGREE CONNECTORS
  - B) (1) 6 FOOT LENGTH OF 2 1/2 INCH FLEXIBLE METAL CONDUIT
  - C) (2) SUITABLE CONNECTORS
  - D) (1) 6 FOOT LENGTH OF 1/2 INCH FLEXIBLE METAL CONDUIT
- 5) PROVIDE 12"X3" SURFACE FLOOR DUCT WITH MINIMUM 2 DIVIDERS AND SUITABLE CHASE NIPPLES AT CT SCANNER. (\*SEE ALSO ALT. #2 BELOW.)
- 6) PROVIDE DOOR SWITCH IN DOOR FRAME, NORMALLY OPEN (24V) W/ 3#14AWG CONTROL WIRE IN 1/2" CONDUIT TO CTPM FLUSH MOUNTED BOX. AT ECG SYNCHRONIZER, PROVIDE DEDICATED CIRCUIT RECEPTACLE.
- 7) PROVIDE 6"X3" SURFACE FLOOR DUCT W/ MINIMUM 1 DIVIDER AND SUITABLE CHASE NIPPLES AT PATIENT TABLE. (\*SEE ALSO ALT. #2 BELOW.)
- 9) AT OPERATORS CONSOLE, PROVIDE (1) 3 1/2 INCH DIA BUSHING & LOCKNUT AND (1) 2 1/2" DIA BUSHING & LOCKNUT.
- 10) AT EMERGENCY OFF PUSH BUTTON, PROVIDE SINGLE GANG 2 1/2 DEEP FLUSH JUNCTION BOX W/ 3#14AWG CONTROL WIRE IN 1/2" CONDUIT ROUTED TO MAIN DISCONNECT SWITCH. MOUNT 4'-0" AFF TO CENTER.
- 11) AT UPS LOCATION PROVIDE THE FOLLOWING:
  - A) (2) 4X4X4 BOXES W/ COVER PLATES
  - B) (2) 2 INCH DIA BUSHING & LOCKNUT
  - C) (1) 1 INCH DIA CHASE NIPPLE
  - D) (2) 1 INCH DIA BUSHING & LOCKNUT
- 12) PROVIDE X-RAY ON INCANDESCENT WARNING LIGHT, GE CAT. NO. WXIABWW-OF-XIU. MOUNT 6 INCHES ABOVE DOOR FRAME TO CENTER PROVIDE 4#14AWG CONTROL WIRE IN 1/2" CONDUIT TO WARNING LIGHT CONTROLLER.
- 13) PROVIDE GE WARNING LIGHT CONTROLLER 24V. MOUNT ABOVE FINISHED CEILING PROVIDE 3#14AWG CONTROL WIRE IN 1/2" CONDUIT TO POWER DISTRIBUTION UNIT CTPM FLUSH MOUNTED BOX.
- 14) PROVIDE 20AMP FUSED 120V SPST FRONT OPERATED SAFETY SWITCH, LOCKABLE IN THE OFF POSITION W/ INSULATED GROUNDABLE NEUTRAL MOUNT AT 5'-0" AFF TO CENTER.
- 15) NOT USED.
- 16) FOR TV MONITOR, PLEASE PROVIDE SINGLE GANG BOX W/ COVERPLATE, 1 INCH DIA CHASE NIPPLE AND 1 INCH CONDUIT ROUTED TO TV CAMERA BOX W/ (1) 75 OHM RCA JACK VIDEO CABLE.
- 17) NOT USED.
- 18) NOT USED.
- 19) NOT USED.
- 20) NOT USED.
- 21) NOT USED.
- 22) RECEPTACLE FOR CRASH CART.
- 23) PROVIDE J-BOX W/ POWER CIRCUIT IN INTERSTITIAL SPACE FOR AUTOMATIC DOOR. COORDINATE EXACT REQUIREMENTS W/ AUTOMATIC DOOR MANUFACTURER.
- 24) NOT USED.
- 25) PROVIDE WIRE MOLD W/ GFI DUPLEX RECEPTACLE MOUNTED EVERY 2 FEET.
- 26) PROVIDE POWER CIRCUIT FOR HOOD COORDINATE EXACT LOCATION.
- 27) PROVIDE CEILING MOUNT RECEPTACLES FOR PATIENT CRANE. COORDINATE EXACT LOCATION.
- 28) PROVIDE WIRE MOLD W/ DUPLEX RECEPTACLE EVERY 3 FEET.
- 29) PROVIDE CEILING RECEPTACLE FOR CEILING MOUNTED PROJECTOR.
- 30) PROVIDE RECEPTACLE FOR OMNICELL. MOUNT AT 84" AFF.
- 31) FOR ADDITIONAL INFORMATION REFER TO CAMERA/IMAGING SITE PLANNING DRAWINGS PRODUCED BY EQUIPMENT MANUFACTURER(S).
- 32) RECEPTACLE FOR WORKSTATION UPS.
- 33) RECEPTACLE FOR PRINTER.
- 34) FOR PRIVACY GLASS, PROVIDE GFCI PROTECTED 120V CIRCUIT TO 4X4 JUNCTION BOX ABOVE CEILING FOR POWER CONDITIONER. PROVIDE 1/2" EMT FROM ABOVE CEILING JUNCTION BOX TO ACCESSIBLE JUNCTION BOX NEAR WINDOW FOR CONNECTION TO WINDOW PIGTAIL. PROVIDE 1/2" EMT FROM ABOVE CEILING JUNCTION BOX TO WALL SWITCH. REFERENCE MANUFACTURER INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.
- 35) PROVIDE 120V CIRCUIT FOR SINK AUTO SHUTOFF. PROVIDE STEP DOWN TRANSFORMER IF REQUIRED.
- 36) PROVIDE J-BOX AND 120V CIRCUIT FOR ROOM PRESSURE MONITOR, LOW VOLTAGE TRANSFORMER MOUNTED IN J-BOX. PROVIDE 1/2" EMT TO ACCESSIBLE CEILING FOR CONTROL WIRING.

ADD. ALT #2: PROVIDE MIN. 3" CONDUIT THROUGH FIRST LEVEL INTERSTITIAL SPACE FOR EACH 6"X3" MODULE OF FLOOR DUCT ALONG FLOOR DUCT ROUTE SHOWN IN POWER PLAN

**SAUNDERS ARCHITECTS - ENGINEERS**  
1H 10 West, Suite 1500  
San Antonio, Texas 78230  
Tele: 877-275-7126

**UNITED STATES DEPARTMENT OF VETERANS AFFAIRS**

**NUCLEAR MEDICINE RELOCATION**

Approved: Chief, Maintenance and Operations  
Approved: Chief, Engineering  
Approved: Environment of Care Manager  
Approved: Facilities Service Line Manager

Approved: Utility Management Supervisor  
Approved: Safety Manager

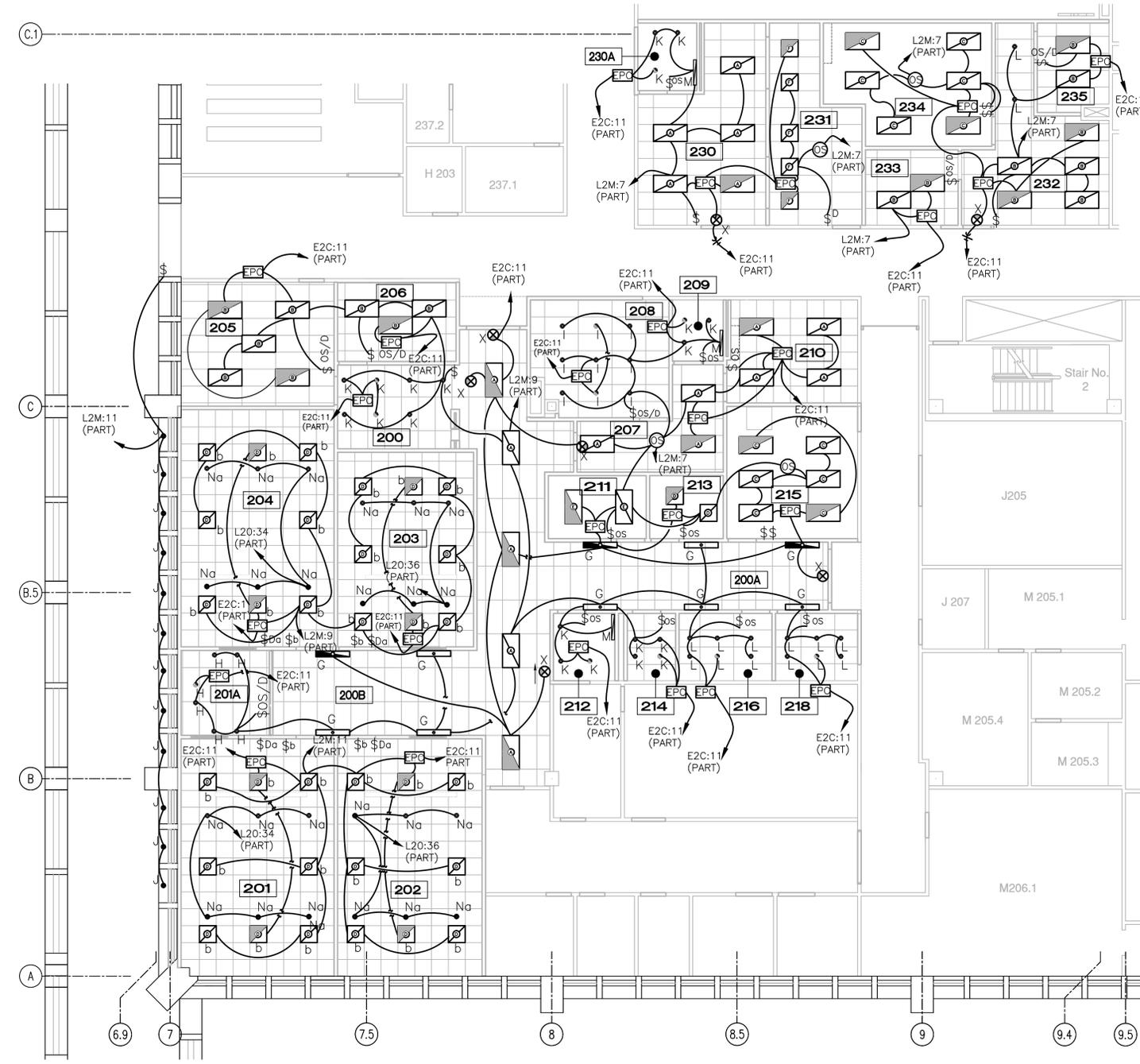
Approved: Privacy Officer  
Approved: Information Security Officer

Project Title	NUCLEAR MEDICINE RELOCATION	Date	01/04/2013
Drawing Title	ELECTRICAL POWER PLAN	Scale	AS NOTED
Project No.	671-11-712	Contract No.	VA257-P-0249
Building No.	-	Location	SAN ANTONIO, TEXAS
Designed By	DS	Checked By	MZ
Drawn By	DS	Reviewed By	DS
Drawing No.		E-106	

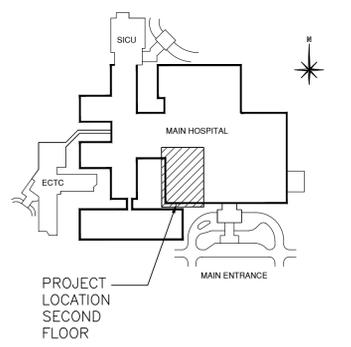
three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

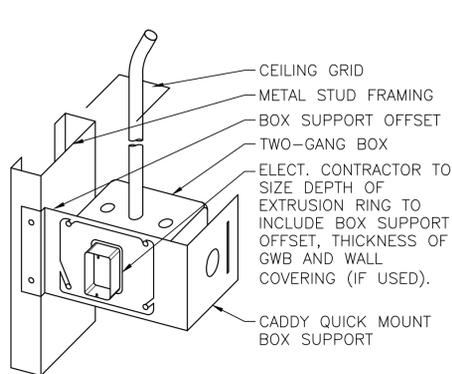
**GENERAL NOTES**

1. ELECTRICAL CONTRACTOR SHALL VERIFY PROPOSED LIGHT FIXTURES WILL INSTALL AS PROPOSED AND ALL ADAPTERS AND INSTALLATION REQUIREMENTS FOR LIGHTING DEVICES ARE INCLUDED FOR FINAL INSTALLATION.
2. LIGHT FIXTURES W/ MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED W/ ONE SWITCH AND INNER LAMPS(S) CONTROLLED BY A SECOND SWITCH, UNLESS ON DIMMER CONTROL.
3. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
4. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
5. THE SHUT OFF, DEMOLITION, CONSTRUCTION AND ACTIVATION OF THE ELECTRICAL SYSTEMS TO BE COORDINATED WITH THE PROJECT PHASING - SEE SHEET A-100.



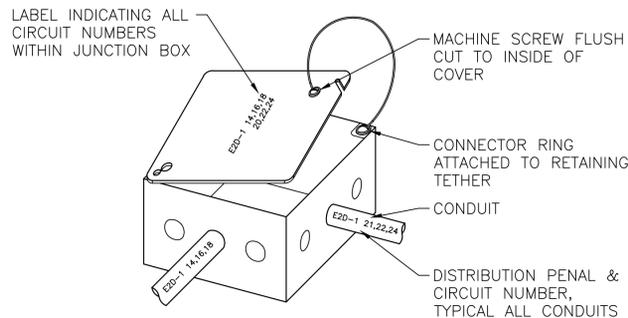
**1 SECOND LEVEL ELECTRICAL LIGHTING PLAN**  
 SCALE: 1/8"=1'-0"





**1 DETAIL - SWITCH BOX INSTALLATION**

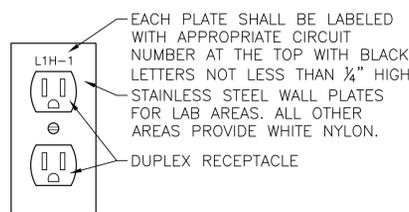
SCALE: 3"=1'-0"



**2 DETAIL - JUNCTION BOX INSTALLATION**

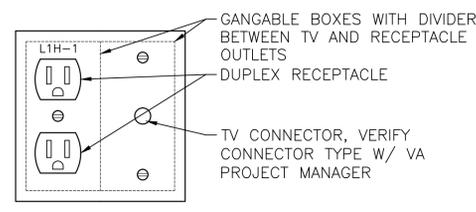
SCALE: 3"=1'-0"

NOTE: USE RED HOSPITAL GRADE RECEPTACLE & COVER PLATE FOR EMERGENCY CIRCUIT RECEPTACLES.



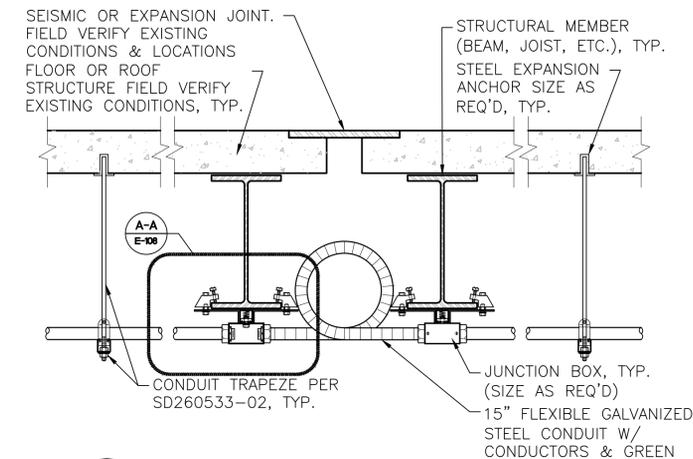
**3 DETAIL - RECEPTACLE LABELING**

SCALE: 6"=1'-0"



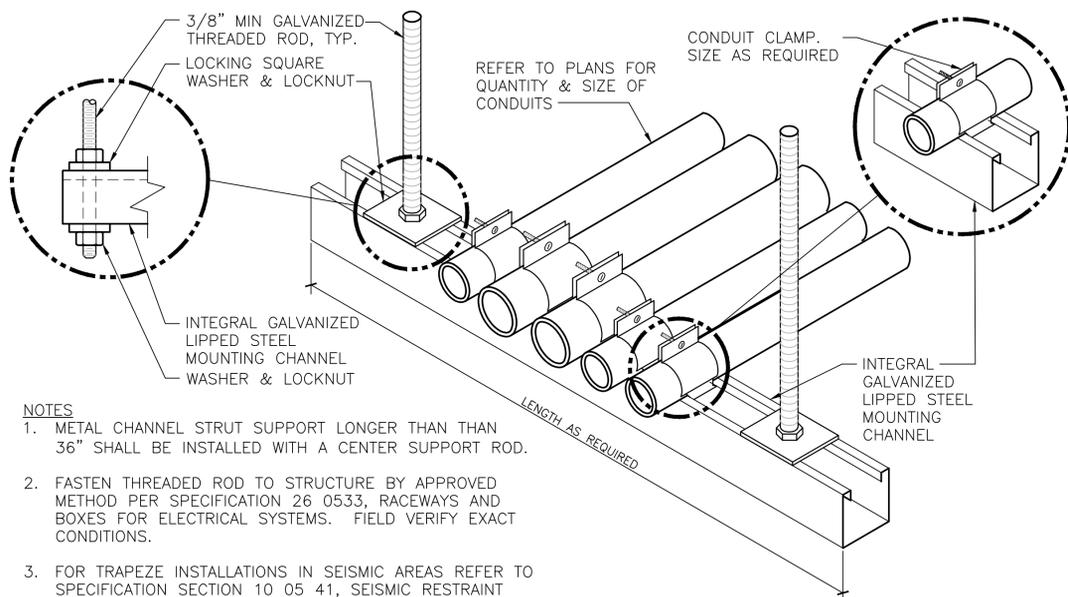
**4 DETAIL - RECEPTACLE LABELING**

SCALE: 6"=1'-0"



**5 DETAIL - CONDUIT JOINT CROSSING**

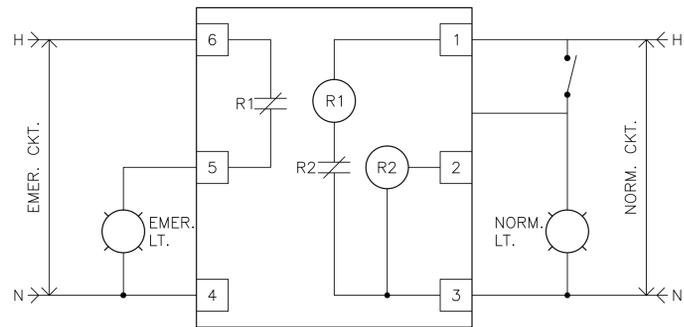
SCALE: 1 1/2"=1'-0"



- NOTES**
- METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
  - FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 0533, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
  - FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 10 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

**6 DETAIL - CONDUIT TRAPEZE MOUNTING**

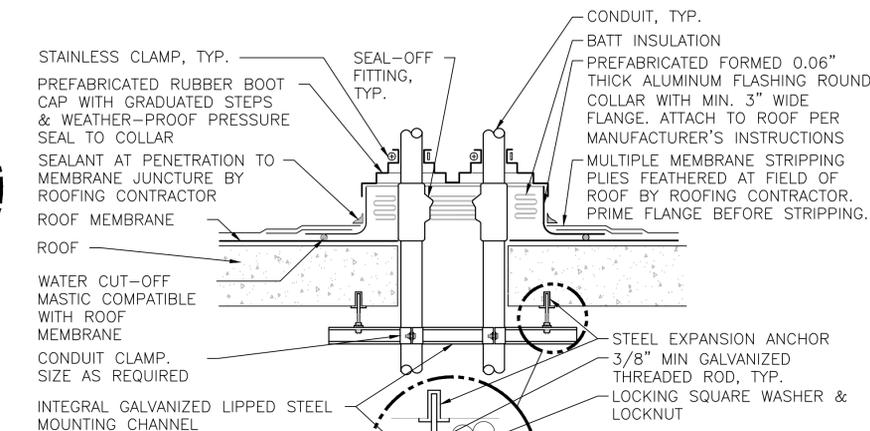
SCALE: NTS



NOTE: DETAIL BASED ON LVS CONTROLS EPC

**9 DETAIL - EPC EMERGENCY POWER CONTROLLER**

SCALE: NTS

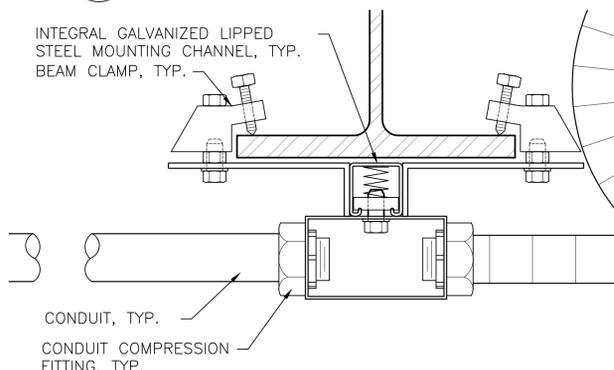


**GENERAL NOTES:**

- MAINTAIN A MINIMUM CLEARANCE OF 12" [308mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
- FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
- VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
- COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

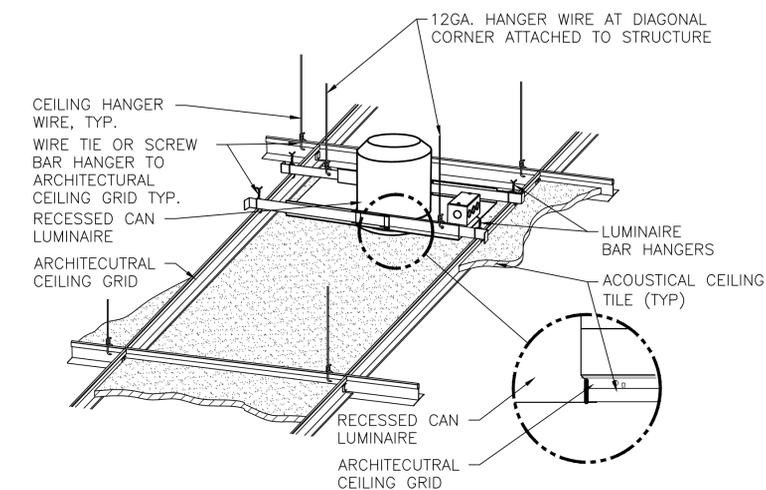
**7 DETAIL - ROOF PENETRATION**

SCALE: NTS



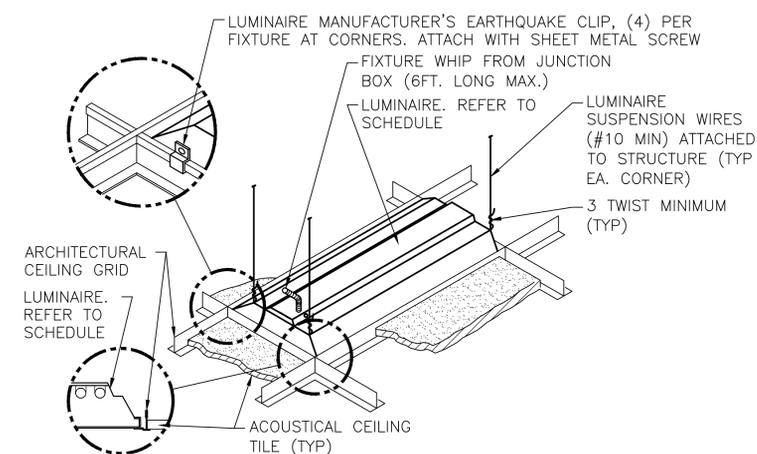
**A-A SECTION DETAIL**

SCALE: 6"=1'-0"



**8 DOWNLIGHT MOUNTING LAY IN CEILING**

SCALE: NTS



**10 LUMINAIRE MOUNTING-LAY IN CEILING**

SCALE: NTS

