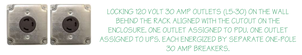
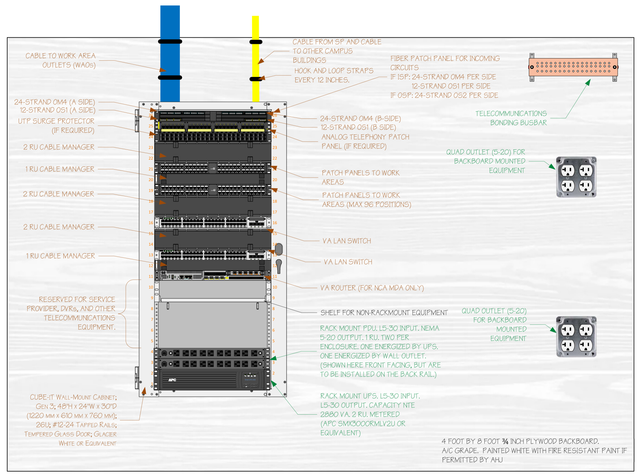


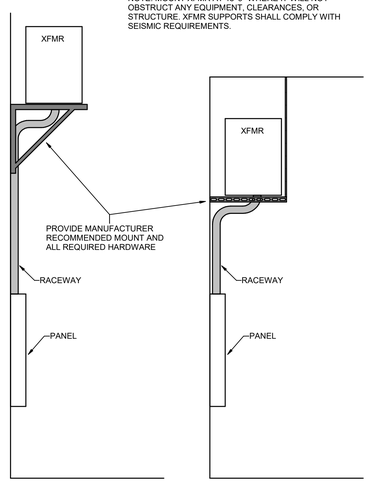
LOCKING 120 VOLT 30 AMP OUTLETS (L5-30) ON THE WALL BEHIND THE RACK ALIGNED WITH THE CUTOUT ON THE ENCLOSURE. ONE OUTLET ASSIGNED TO PDU, ONE OUTLET ASSIGNED TO UPS. EACH ENERGIZED BY SEPARATE ONE-POLE 30 AMP BREAKERS.



C1 TYPICAL POWER ELEVATION FOR TE (TELECOMMUNICATIONS ENCLOSURE)

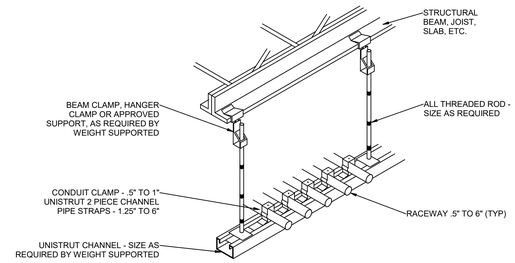
SCALE: NTS

NOTE: MOUNT XFMR AT 13' 9" WHERE IT WILL NOT OBSTRUCT ANY EQUIPMENT, CLEARANCES, OR STRUCTURE. XFMR SUPPORTS SHALL COMPLY WITH SEISMIC REQUIREMENTS.



C4 TYPICAL TRANSFORMER WALL MOUNTING

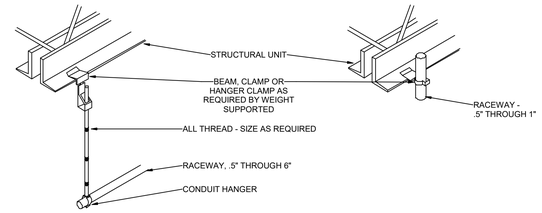
SCALE: NTS

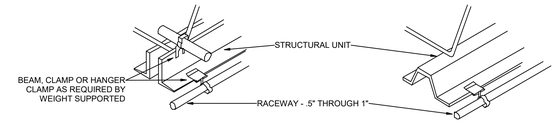


B8 TYPICAL CONDUIT RACK DETAIL

SCALE: NTS

NOTE:
TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.





D8 TYPICAL RACEWAY SUPPORT METHODS DETAIL

SCALE: NTS

① LABEL TO BE PROVIDED AT EACH SWITCHBOARD, PANELBOARD, DISCONNECT/STARTER. LABEL IS TO BE 3" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.

② LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.

③ FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. REPLACE THE LETTER/NUMBER WITH THOSE FOUND ON THE ONE-LINE DIAGRAM.

④ SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF DEVICE.

⑤ THIRD LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. PROVIDE "FED FROM-" AND REPLACE MDP1 WITH THE DEVICES NAME THAT FEEDS THE PANELBOARD.

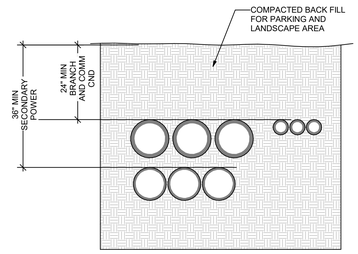
③ 1LA1,
④ 208/120V, #PH, #W, 22KAIC,
⑤ FED FROM-MDP1

① ②

NOTE: EMERGENCY PANELS SHALL USE LAMACOID WITH RED OUTERPLY, EXPOSING WHITE LETTERING BENEATH. CONTRACTOR TO USE SAME LABEL SCHEME EXCEPT FIRST 'X' IS REPLACED WITH 'E' FOR EMERGENCY. SECOND 'X' TO BE 'L' FOR LOW OR 'H' FOR HIGH VOLTAGE (480/277V). LAST '#' TO BE REPLACED WITH LETTER INDICATING LOCATION OF PANEL.

D2 TYPICAL PANELBOARD/SWITCHBOARD LABEL

SCALE: NTS

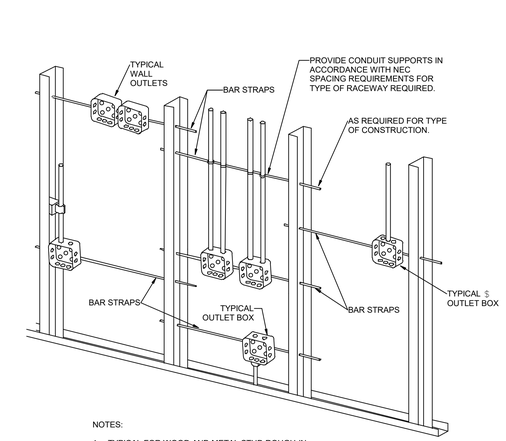


NOTES:

1. ALL BENDS SHALL BE LARGE RADIUS.
2. ALL CONDUIT ABOVE GROUND, ALL BENDS AND FIRST 10' BELOW GROUND SHALL BE PVC WRAPPED RMC. CONDUIT BELOW GROUND MAY BE PVC.
3. PROVIDE POLYPROPYLENE PULL ROPE IN EMPTY CONDUITS.

E5 TYPICAL CONDUIT DIRECT BURY DETAIL

SCALE: NTS



NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL, MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE OR LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET BOXES.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

F8 TYPICAL ROUGH-IN REQUIREMENTS DETAIL

SCALE: NTS

WARNING

Arc Flash and Shock Hazard

Appropriate PPE Required

40 in	Flash Hazard Boundary
4.5 cal/cm^2	Flash Hazard at 18 in
Level 2	Arc-rated shirt & pants or arc-rated coverall
480 VAC	Shock Hazard when cover is removed
00	Glove Class
42 in	Limited Approach
12 in	Restricted Approach
1 in	Prohibited Approach

Location:	**BUS-0001**

SKM Systems Analysis, Inc.

XEROX LEWISVILLE, TX

Job#:	20130591	Prepared on:	01/20/15	By:	Engineer

Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements

SHADED AREAS TO BE ORANGE ALL OTHER TO BE WHITE BACKGROUND

(TYP) DISTANCES IN INCHES

COORDINATE VOLTAGE VALUES WITH ONE-LINE

MATCH NAME OF EQUIPMENT WITH NAMES ON ONE-LINE

PROVIDE ADDRESS WHERE SKM ANALYIS IS PERFORMED

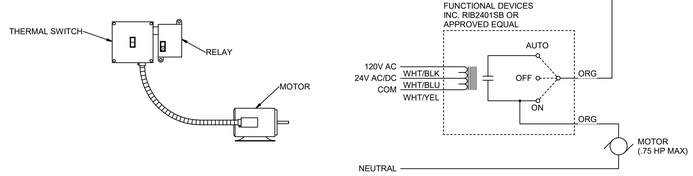
PROVIDE JOB NUMBER "########", DATE OF ANALYSIS AND ENGINEER WHO PERFORMED STUDY

*PROVIDE ARC FLASH LABEL FOR ALL ELECTRICAL EQUIPMENT PER SPECIFICATIONS AND REQUIRED BY NEC

F2 TYPICAL ARC FLASH LABEL

SCALE: NTS

NOTE: THERMAL SWITCH AND RELAY MUST BE MOUNTED WITHIN SIGHT OF MOTOR BEING CONTROLLED.



LAYOUT DIAGRAM

SCHEMATIC DIAGRAM

F5 120V FRACTIONAL MOTOR CONTROL

SCALE: NTS

ADDENDUM #2	06/29/2026
Revisions:	Date:

CONSULTANTS:

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LICENSED PROFESSIONAL ENGINEER No.7690241-2202 WILLIAM N. FELT 06/29/2026 STATE OF UTAH

Drawing Title: ELECTRICAL DETAILS

Approved:

Project Title: REPLACE STEAM BOILERS

Location: NORTHERN ARIZONA VA HEALTH CARE SYSTEM, 500 N. STATE HWY 89, PRESCOTT, ARIZONA 86313

Issue Date: 16 NOV 2025 | Checked: FELT | Drawn: SOUTHERN

Project Number: 649-22-104

Building Number: 111

Drawing Number: EE501

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

CD SET

VA FORM 08 - 6231

BIM 360://214004 - Replace Steam Boilers/214004-Elec Central.rvt

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