CODE REQUIREMENTS & ELEC. CLEARANCES

DRAWINGS INDICATE JUNCTION BOXES WITH HOMERUNS ON THE PLANS, BUT THE CONTRACTOR SHALL PROVIDE ALL INTERMEDIATE RACEWAY WORK AND CONDUCTOR/CABLING BETWEEN THE DEVICES, FIXTURES, AND JUNCTION BOXES AS COORDINATED WITH ALL FIELD CONDITIONS AND TRADES.

ALL CONDUCTORS ON THIS PROJECT SHALL BE COPPER.

ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND FREE OF TRASH OR DEBRIS RESULTING FROM THEIR WORK.

NEW CIRCUIT BREAKERS INSTALLED IN EXISTING EQUIPMENT SHALL BE PROVIDED TO MATCH THE kAIC MAXIMUM FAULT CURRENT THE CONTRACTOR SHALL RECALCULATE AS NECESSARY AND REMARK THE DISCONNECT SWITCHES.

PROVIDE ENGRAVED NAMEPLATES FOR ELECTRICAL BOARDS, DISCONNECTS, AND SWITCHGEAR.

PROVIDE TYPE WRITTEN PANEL SCHEDULES UPDATED TO INCLUDE ALL FIELD MODIFICATIONS AND SCOPE CHANGES.

CONTRACTOR SHALL PROVIDE HANDLE TIES BETWEEN ALL BRANCH CIRCUIT BREAKER LOADS WHICH SHARE A CIRCUIT AND FEEDERS.

WHERE CIRCUITS ARE SHOWN ON THE DRAWINGS WITH HOMERUNS THAT SHARE NEUTRAL CONDUCTORS THE 12" SEPARATION BETWEEN ALL LOW VOLTAGE AND LINE VOLTAGE RACEWAYS. INSTALL A WARNING/MARKER PROVIDE CLEAR SIGNAGE ON ALL ELECTRICAL EQUIPMENT PER CEC TO INDICATE THE ARC FLASH HAZARD.

CONTRACTOR SHALL DISCONNECT AND REMOVE ALL DEMOLISHED DEVICES AND FIXTURES AS SHOWN ON THE DEMOLITION PLAN. TURN OVER TO OWNER EXISTING DEVICES AND FIXTURES THAT ARE NOT REUSED.

CONTRACTOR SHALL PREPARE RED LINED AS-BUILT DOCUMENTS REPRESENTING THE ACTUAL FIELD ROUTINGS AND INSTALLATION LOCATIONS FOR ALL ITEMS ON THIS PROJECT.

PROJECT GENERAL NOTES

CONCRETE PAD SHALL BE DESIGNED TO ATTAIN A STRENGTH OF 3000 PSI IN 28 DAYS. SURFACE SHALL BE SMOOTH, CLEAN, AND LEVEL.

PAD SHALL EXTEND 8" ON SIDES, FRONT AND BACK OF EQUIPMENT. USE RIGID STEEL CONDUIT FOR ALL EXPOSED INSTALLATIONS.

PAD/SLAB. REFER CONCRETE

TRANSFORMER: 2 PER SIDE PER CUBICLE, MAX WEIGHT 1,250#.

TOTAL LOAD: 110.00 kVA 110.00 110.00

WIRING: 3 WIRES

MSB-2

MAIN RATING:

Bus Rating

Total Conn. Load:

Total Est. Demand:

TOTAL EST. DEMAND:

P... Amp LOAD SERVED

A.I.C. Rating:

P... Amp LOAD SERVED

A615, GRADE 40 MINIMUM.

#2 REINFORCING BARS AT 12" MAXIMUM SPACING IN EACH DIRECTION. BARS SHALL BE AS PER ASTM #2 MIN.

SOLID BARE COPPER GROUND CONDUCTOR.

1/2"  ∅

MIN. 3.25" EMBED

R  E  S  I  D  E  N  T  A  L  PHASE

DISTRIBUTION PHASE

S  H  O  U  T  E  N

C  O  N  C  R  E  T  E

Notes:

Other 330 kVA 100.00% 330 kVA 5 66.67 43.33 6 -- -- --

-- -- -- 5 66.67 43.33 6 -- -- --

Mounting:

PAD

INSTALL PER ICC ESR-1917

EQUIPMENT ENCLOSURE

MIN. 3.25" EMBED
1. Remove existing equipment. Refer to E200 for additional information.
2. Provide new underground feeder to existing distribution board LDA. Rise up and terminate into the board at 6" above grade. As an alternative, intercept existing feeder entering the gear, remove wire and pull new wire into the equipment.
3. Provide new underground feeder.
4. Provide new N36 pullbox to intercept existing feeder as shown on E100.
5. Provide 90° up at wall and penetrate wall at +8" above grade. Core wall and penetrate wall with LB's. Extend feeder to transformer as shown.
6. Provide a transformer with an integral secondary circuit breaker.
7. Raise vault lid to match grade of finished concrete pad.