

THREE MULTIMODE PAIRS (SIX STRANDS) AND THREE SINGLE-MODE PAIRS (SIX STRANDS) BERK-TEK OM3 OF EQUAL CAT 6A CABLE

BERK-TEK CAT. 6A CABLE TESTING

ALL FIBER OPTIC CABLE MUST BE TESTED TO SUPPORT 1000BASE-FX FULL DUPLEX STANDARDS, ALL CAT 6A CABLE MUST BE TESTED TO SUPPORT 100BASE-TX. TEST RESULTS ARE TO BE PROVIDED TO OWNER I.T MANAGER FOR REVIEW AND APPROVAL.

IDF SWITCH EQUIPMENT CISCO WS-C29XXX-24 W/ WS-C5484 GBIC (CONFIRM WITH OWNER)

CISCO WS-C2950-24 (CONFIRM WITH OWNER) HUBBLE RE4X OR EQUÀL ALLEN TEL AT55—16 OR EQUAL CABINETS

ALLEN TEL AT30-2-09 OR EQUAL ALLEN TEL ATPNL-48 OR EQUAL PATCH PANEL

LABELING IDIENTICATION

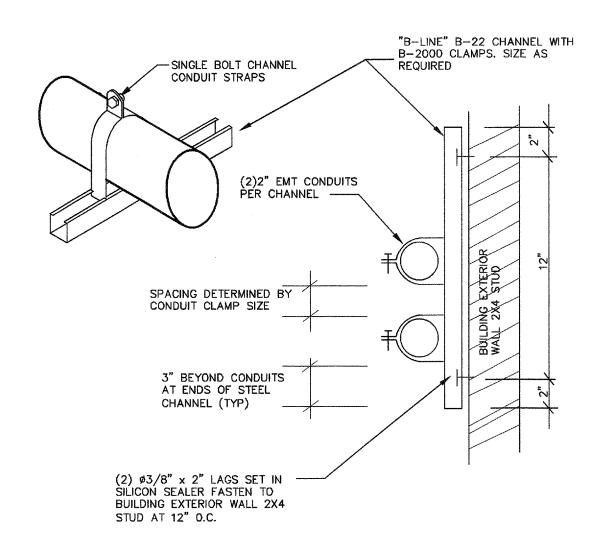
ALL INSTALLED EQUIPMENT, CABLES, TERMINATIONS, ETC. WILL BE PERMANENTLY AND UNIQUELY MARKED. CABLES WILL BE MARKED USING A CONVENTION THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION. LAN TERMINATIONS WILL SIMILARLY BE MARKED TO UNIQUELY IDENTIFY THEM WHILE PROVIDING THE SOURCE AND DESTINATION OF CABLE. IDENTIFICATIONS MUST BE SUCH THAT THEY WILL NOT RUB OFF, FALL OFF, OR EASILY BREAK AWAY.

- 1. CONTRACTOR TO PROVIDE ALL EQUIPMENT, PATCH CABLE AND ACCESSORY FOR A FULLY FUNCTIONAL SYSTEM.
- 2. NEW DATA JACK WIRING CONFIGURATION MUST BE MATCHED EXISTING SYSTEM. FIELD VERIFY PRIOR TO
- 3. ADMINISTRATIVE NODE TO BE RED IN COLOR WITH THE INSTRUCTIONAL NODE TO BE BLUE IN COLOR, NODE LOCATION MUST BE 12" WITHIN POWER RECEPTACLE AND FIELD VERIFY EXACT LOCATION WITH OWNER PROJECT COORDINATOR OR TECHNOLOGICAL SERVICES PERSONNEL PRIOR TO INSTALLATION.
- 4. ALL EQUIPMENT DOCUMENTATION AND WARRANTY CARDS WILL BE PROVIDED TO OWNER FOR FILING WITH MANUFACTURERS UPON COMPLETION OF INSTALLATION.

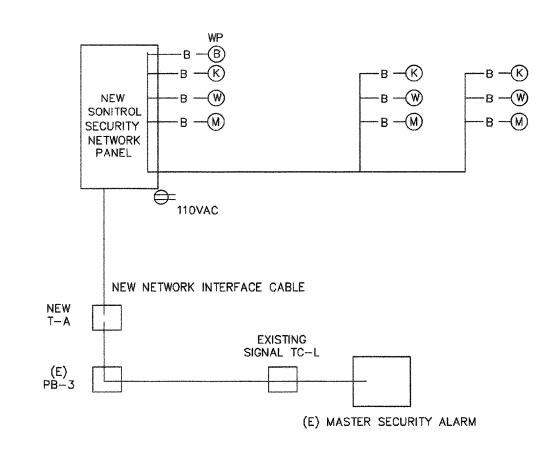


DATA COMMUNICATION SYSTEM RISER DIAGRAM

N.T.S

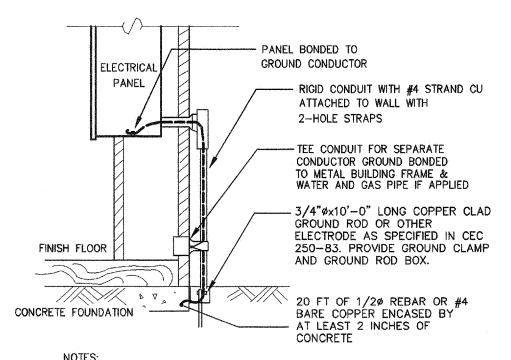


CONDUIT SUPPORT DETAIL - NEW BID N.T.S



SECURITY ALARM SYSTEM RISER DIAGRAM

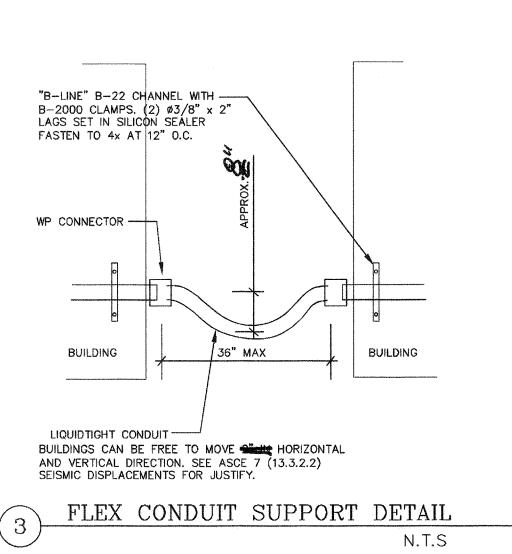
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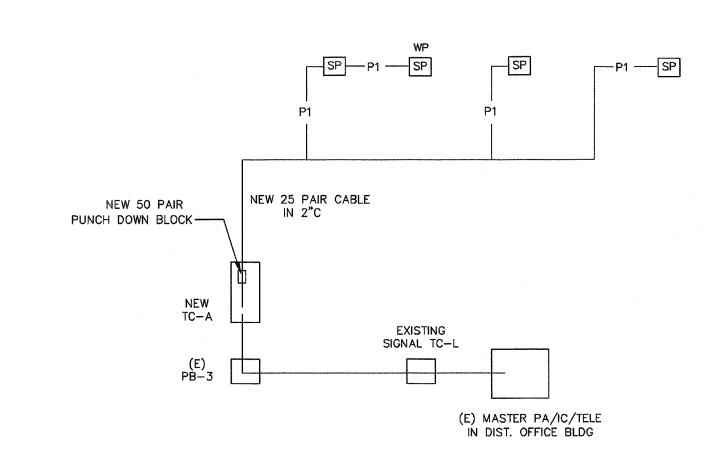


- 1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-66. 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME PER CEC 250-50. IN ADDITION TO THE DETAIL SHOWN ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. IN SOIL IF AVAILABLE (CEC 250-50, 250-82)
- 3. ALL MADE OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER, BOND TO HAND RAIL AND WATER PIPE IF APPLIED. (BOLTING ONLY IS NOT ACCEPTABLE BONDING). 4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEED 25
- OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250-84). 5. FIELD INSPECTOR SHALL WITNESS GROUNDING TEST.

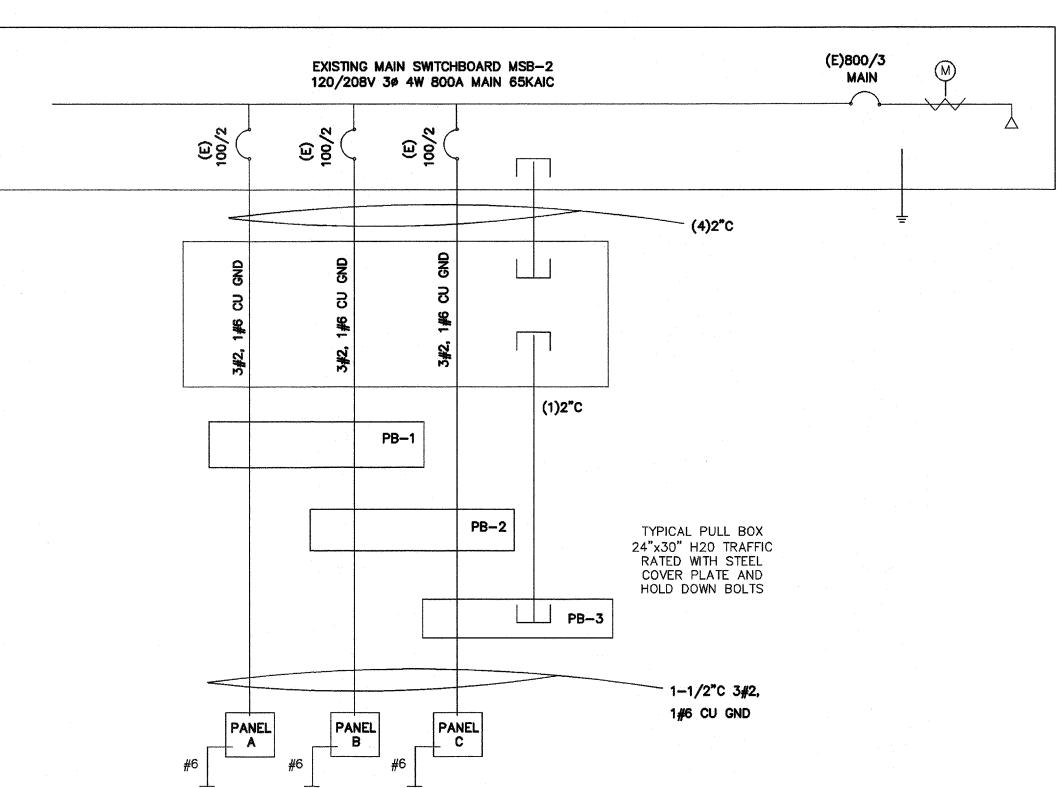


N.T.S





PA/IC/TELE SYSTEM RISER DIAGRAM N.T.S



1. ALL EXISTING PANELS AND FEEDERS TO REMAIN.

NOTES:

2. ALL NEW CONDUCTOR SHALL BE 75°C THWN-2 COPPER IN CONDUIT. (AMPACITY FOR CONDUCTOR SELECTION MUST BE DETERMINED/DERATED BY THE ALLOWED TERMINATION RATINGS MARKED/APPROVED ON EACH DEVICES, MOTOR, APPLIANCE, XFMR O.C.P.C. PANEL, ETC. CONDUCTORS INSTALLED IN U.G OR WET LOCATIONS SHALL BE MARKER 'W'. PER 2016 CEC 110-14(C)(1).)

ALL WIRING OVER 100 VOLT SHALL BE INSTALLED IN RACEWAY CONDUIT, EMT ABOVE GRADE, PVC SCH. 40 BELOW GRAD AND STEEL CONDUIT ON EXPOSE SURFACE BELOW 8' AFF. FOR PHYSICAL PROTECTION.

MC CABLE WITH SEPARATE GROUND CONDUCTOR CAN BE USED IN CEILING AND CONCEAL IN WALL. STEEL BACK BOX SHALL BE PROVIDE FOR ALL NEW ELECTRICAL DEVICES SUCH AS SWITCH, OUTLET AND CONDUCTOR SPLICE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING SWITCHBOARD AND PANELS ARE INSTALL PER ONE LINE

DIAGRAM PRIOR TO WORKING, AND REPORT TO ENGINEERS IF ANY DISCREPANCY ARE FOUND. SINGLE LINE DIAGRAM

N.T.S



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