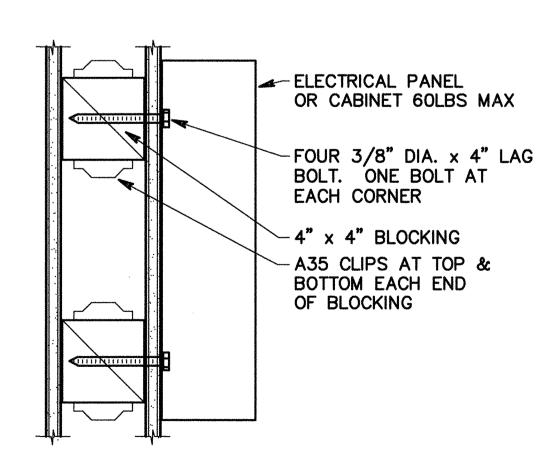
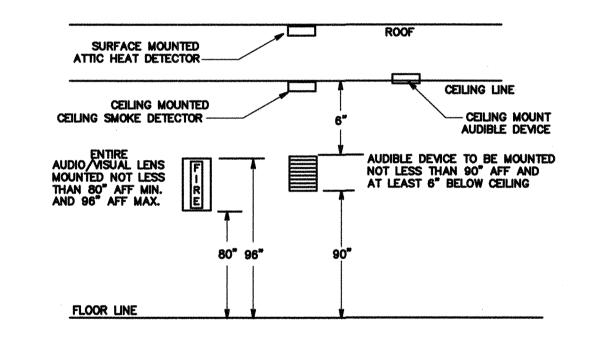


POWER AND SIGNAL PLAN

SCALE: 1/8" = 1' - 0"



SURFACE MOUNTED IDF DETAIL N.T.S PANEL A 100 AMP MAIN BREAKER 10.000 AIC TOTAL LOAD KVA 60/2 8 10 HVAC 3.5 TON RECEPTACLE 20/1 12 12 2 FIRE ALARM NAC PANE PROVIDE CIRCUIT DIRECTORY INSIDE PANEL
PROVIDE NEW MATCHING BREAKER AND MECHANICAL LOCK ON BREAKER PER NFPA 72, 10.6.5.2: DEDICATED CIRCUIT, MECHANICALLY PROTECTED (LOCKOUT), RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, ID'D AS FIRE ALARM, EMERGENCY COMMUNICATIONS OR FIRE ALARM/ECS. LOCATION OF CIRCUIT DISCONNECT (BREAKER) PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.



TYPICAL FIRE ALARM DEVICES MT'D DETAIL N.T.S.

MEP COMPONENT ANCHORAGE NOTES

all mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH

- ALL PERMANENT EQUIPMENT AND COMPONENTS 2. TEMPORARY OR MOMBLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY
- SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVER THAN 400 POUNDS ARE
- THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE
- COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

 8. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 12.6.8, 13.6.5.6 AND 2013 CBC, SECTION

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMMY WITH ON OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D. COPIES OF THE MANUAL SHALL BE AMALABLE ON THE JOBSTE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE ,

NOTES SHEET

- APPROXIMATE LOCATION FOR NEW FIRE ALARM SIGNAL AND AUDIO BOOSTER PANEL. PROVIDE 110V POWER CONNECTION AND DEDICATED
- CIRCUIT FROM PANEL A-12. SEE DRAWING E-3 FOR MORE INFORMATION PROVIDE POWER CONNECTION FOR RELOCATABLE BUILDING PRE-WIRED PANEL. SEE SINGLE LINE DIAGRAM ON DRAWING E-4.
- PROVIDE PULL BOX AND INTERCEPT EXISTING UNDERGROUND CONDUIT AND FEEDERS. EXTEND NEW U.G CONDUIT AND FEEDER TO NEW BUILDING
- PROVIDE #6 COPPER GROUNDING CONDUCTOR AND BOND TO EACH SECTION STRUCTURAL STEEL BEAM, FIELD VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- NEW SECURITY ALARM PANEL AND SYSTEM, PROVIDE 110V POWER CONNECTION AND INTERCONNECTION TO (E) MASTER EQUIPMENT IN ADMIN OFFICE. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM.
- 6 NEW IDF AND CABINET SURFACE MOUNTED BELOW CEILING. PROVIDE 110V POWER CONNECTION, DATA SWITCH, FO CABLE AND DATA CABLE PATCH PANEL FOR NEW DATA OUTLET CONNECTION. PROVIDE FO CABLE TO (E)
 MDF IN ADMIN OFFICE FOR INTERCONNECTION. FIELD VERIFY EXACT
 LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE
- DATA AND POWER OUTLET AT CEILING FOR SMART BOARD. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM.
- PROVIDE 50 PAIR PUNCH DOWN BLOCK AND SURFACE MOUNTED BELOW CEILING FOR INTERCOM / TELEPHONE WIRING TERMINATION.
- 9 EXISTING SIGNAL TC. PULL IN NEW CONDUCTORS TO MASTER EQUIPMENT PER PLANS, SEE RISER DIAGRAMS.
- FURNISH AND INSTALL NEW UNDERGROUND SIGNAL CONDUITS. SAW CUT AND PATCH EXISTING FLOOR AS REQUIRED. SEE RISER DIAGRAMS. FIELD
- NEW 24"x24"x4" NEMA3R SIGNAL TO SURFACE MOUNTED ON EXTERIOR WALL AT CEILING LEVEL. PROVIDE (2) 2°C STUB INTO BUILDING ATTIC CAVITY. SEE SIGNAL RISER DIAGRAM.

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CITY SCHOOL DISCAVE, BAKERSFI

T. VERNON EL
RELOCATAB
BAKERSFIELD (
2161 POTOMAC.)

SIGNAL AND COMM. LEGEND

SECURITY ALARM SYSTEM

- INTERFACE WITH EXISTING BUILDING MASTER SECRITY ALARM PANEL AS
- LCD KEYPAD MATCH EXISTING EQUIPMENT AS REQUIRED.
- DUAL TECHNOLOGY CEILING MOUNT DETECTOR. MATCH EXISTING EQUIPMENT AS REQUIRED.
- EXTERIOR BELL (SIREN) -- DSC//SD15W WITH WEATHERPROOF BACKBOX AND TAMPER SWITCH.
- DOOR CONTACT SWITCH. RECESS ABOVE DOOR JAMB AT OPEN
- --- B --- INDOOR SECURITY ALARM CABLE. WEST PENN #241

COMMUNICATION (TELEPHONE/INTERCOM) SYSTEM

- HANDSET/IP PHONE FIELD VERIFY MODEL NO. AND MATCH EXISTING MASTER EQUIPMENT AS REQUIRED.
- CEILING SPEAKER RAULAND #US0221 W/ACC1000 BAFFLE. PROVIDE BACKBOX AND CEILING SUPPORT AS REQUIRED
- OUTDOOR SPEAKER ATLAS #APF15 HORN W/XFMR AND LOWELL (#CB84 FOR SURFACE, #P875X FOR RECESS) BACK BOX W/SQLK GRILL
- T CUTDOOR TELE/IC CABLE. 22AWG SOILD COPPER 12 PAIR SHIELDED AND 12 PAIR UNSHIELDED CABLE.
- _____T1 ____ INDOOR TELEPHONE CABLE. CAT.3 22AWG SOILD COPPER 4UTP SHIELDED CABLE.

DATA COMMUNICATION SYSTEM

- DATA OUTLET LEVITON CAT 5E (DUAL RECEPTACLE RED IN COLOR FOR ADMINISTRATIVE)
- DATA OUTLET LEVITON CAT 5E (DUAL RECEPTACLE BLUE IN COLOR FOR INSTRUCTIONAL) --- FO --- FIBER OPTIC CABLE VIA INNER DUCT WITH J-HOOK IN ATTIC AND 2°C FOR OUTDOOR. SEE RISER DIAGRAM FOR MODEL NO.

NOTES:

ALL SIGNAL CONDUCTORS CANNOT SPLICE INSIDE PULL BOX.
CONDUCTOR MUST BE CONTINUE RUN BETWEEN SIGNAL DEVICES
BACK BOX OR ABOVE GROUND TERMINAL CABINET.



Agency Approval Stamp:

FILE #: 15-6

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