POWER AND SIGNAL PLAN

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

EXISTING PANEL A SCHEDULE SHOWN FOR REFERENCE ONLY

EMT CONDUIT FOR INDOOR

RIGID STEEL COUPLING

RIGID STEEL CONDUIT WITH INSULATED TAP

RIGID STEEL ELBOW

RIGID STEEL COUPLING

RIGID STEEL CONDUIT FOR OUTDOOR

CONCRETE SLAB

CONTINUOUS WARNING TAPE

RIGID STEEL AND PVC TRANSITION COUPLING

UNDERGROUND PVC SCH. 40 CONDUIT

UNDERGROUND CONDUIT RISER DETAIL

SEE PC PLANS FOR ALL PANEL SCHEDULES 120/240V 1ø 3W PANEL A CLASSROOM FLUSH MOUNT 100 AMP MAIN BREAKER | SERIES 10K AIC | NEMA 1 GND AWG WA WB RECEPTACLES/CLOCK EXTERIOR LIGHT 1 4 FIRE ALARM BOOSTER PANEL FIRE SPRINKLER SWITCH AND UPDATE CIRCUIT DIRECTORY INSIDE PANEL PROVIDE ARC FLASH LABEL ON PANEL DOOR PROVIDE MECHANICAL LOCK ON BREAKER PROVIDE 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.

FIRE ALARM SEQUENCE OF OPERATIONS MANUAL PULL STATION ALL (EXCEPT LISTED BELOW) PRIMARY FLOOR LOBBY ALL OTHER LOBBIES **ELEVATOR MACHINE ROOM** ELEVATOR SHAFT HEAT DETECTORS: ALL (EXCEPT LISTED BELOW) ELEVATOR MACHINE ROOM ELEVATOR SHAFT DUCT DETECTOR FIRE SPRINKLER WATERFLOW SWITCH FIRE SPRINKLER TAMPER SWITCH POST INDICATOR VALVE WIRING CONDITIONS: SIGNALING LINE CIRCUIT (SLC)-WIRE-TO-WIRE SHORT SINGLE OPEN SINGLE GROUND INITIATING DEVICE CIRCUIT (IDC)-WIRE-TO-WIRE SHORT SINGLE OPEN SINGLE GROUND NOTIFICATION APPLIANCE CIRCUIT (NAC XX WIRE-TO-WIRE SHORT SINGLE GROUND LOSS OF 120VAC POWER SIGNAL SILENCE RESET FACP NOTE: SOME SEQUENCE OF OPERATIONS SHOWN MAY NOT APPLY

CONCRETE BOLT DOWN LID WITH FINISHED GRADE -MANUFACTURE— BOLT SET - TYPICAL EXTENSION BONDING IS REQUIRED QUANTITY AS REQ'D FOR METAL CONDUITS BY DEPTH. (MIN. ONE) - 2" THICK CONCRETE SLURRY FLOOR 6" COARSE GRAVEL SUMP

SIGNAL AND COMM. LEGEND

DIGITAL SECURITY ALARM CONTROL PANEL. MODEL

MASTER SECRITY ALARM PANEL 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

--- B1 --- OUTDOOR SECURITY ALARM CABLE. WEST PENN #AQC224

SHIELDED AND 12 PAIR UNSHIELDED CABLE.

--- P1 --- OUTDOOR PA/IC CABLE - WEST PENN #AQC-369

IN COLOR FOR ADMINISTRATIVE)

BLUE IN COLOR FOR INSTRUCTIONAL)

FO FIBER OPTIC CABLE VIA INNER DUCT WITH J-HOOK IN

--- C1 --- (ONE) CAT 6 22AWG 4UTP. SEE RISER DIAGRAM FOR

- C2 - (TWO) CAT 6 22AWG 4UTP. SEE RISER DIAGRAM FOR

1. ALL SIGNAL CONDUCTORS CANNOT SPLICE INSIDE PULL BOX.

DEVICES BACK BOX OR ABOVE GROUND TERMINAL CABINET.

CONDUCTOR MUST BE CONTINUE RUN BETWEEN SIGNAL

2. IN CASE OF CONFLICT BETWEEN SIGNAL DEVICES CATALOG

NUMBERS, DESCRIPTION SHALL PREVAIL.

HANDSET/IP PHONE - FIELD VERIFY MODEL NO. AND

INDOOR TELEPHONE CABLE. CAT.3 22AWG SOILD COPPER

DATA OUTLET - LEVITON CAT 6 (DUAL RECEPTACLE RED

ATTIC AND 2"C FOR OUTDOOR. SEE RISER DIAGRAM FOR

DATA OUTLET - LEVITON CAT 6 (DUAL RECEPTACLE

MATCH EXISTING MASTER EQUIPMENT AS REQUIRED.

— B — INDOOR SECURITY ALARM CABLE. WEST PENN #241

LCD KEYPAD - MATCH EXISTING EQUIPMENT AS

SONITROL (64ZONE). INTERFACE WITH EXISTING BUILDING

SECURITY ALARM SYSTEM

REQUIRED.

JAMB AT OPEN SIDE.

COMMUNICATION (TELEPHONE/INTERCOM) SYSTEM

BACK BOX W/SQLK GRILL

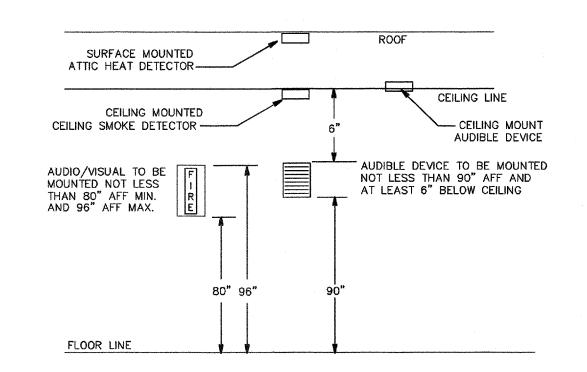
4UTP SHIELDED CABLE.

DATA COMMUNICATION SYSTEM

MODEL NO.

WHERE PULL BOX IS LOCATED WITH IN 30" OF A FOUNDATION OR SIDE WALK, PULL BOX SHALL BE SET FLUSH WITH THE ADJACENT SURFACE, MOW STRIP CONCRETE SHALL BE POURED FLUSH WITH FOUNDATION OR SIDE WALK.

3 PULL BOX AT OPEN YARD DETAIL N.T.S



N.T.S.

TYPICAL FIRE ALARM DEVICES MT'D DETAIL

SHEET

NEW FIRE ALARM SIGNAL & VOICE BOOSTER POWER. PROVIDE 110V DEDICATE CIRCUIT AND CONNECTION TO PANEL A CIRCUIT #E-12. PROVIDE LOCKING DEVICE ON CIRCUIT BREAKER AND RED MARKER ON PANEL DOOR. SEE

PANEL SCHEDULE. PROVIDE POWER CONNECTION FOR RELOCATABLE BUILDING PRE-WIRED PANEL. SEE SINGLE LINE DIAGRAM ON DRAWING

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

PROVIDE #6 COPPER GROUNDING CONDUCTOR AND BOND TO EACH STRUCTURAL STEEL BEAM, FIELD VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR PRIOR TO

INSTALLATION. SEE RISER DIAGRAM 5/E-4.

24"X24"X4" NEMA2R SIGNAL TC SURFACE MOUNT ON BUILDING EXTERIOR WALL WITH (2)2"C STUB INTO BUILDING

CEILING SPEAKER - RAULAND #US0221 W/ACC1401 NEW IDF AND CABINET SURFACE MOUNTED BELOW CEILING. BAFFLE. PROVIDE BACKBOX AND CEILING SUPPORT AS PROVIDE 110V POWER CONNECTION, DATA SWITCH, FO CABLE AND DATA CABLE PATCH PANEL FOR NEW DATA OUTDOOR SPEAKER - ATLAS #APF15 HORN W/XFMR AND OUTLET CONNECTION. PROVIDE FO CABLE TO (E) MDF IN LOWELL (#CB84 FOR SURFACE, #P875X FOR RECESS) ADMIN OFFICE FOR INTERCONNECTION. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM. OUTDOOR TELE/IC CABLE. 22AWG SOILD COPPER 12 PAIR

DATA AND POWER OUTLET AT CEILING FOR SMART BOARD. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM.

EXISTING 800A SERVICE PANEL, PROVIDE POWER CONNECTION FOR NEW BUILDING PANEL PER PLANS. SEE SINGLE LINE DIAGRAM 1/E-4.

PROVIDE OUTDOOR PULL CAN 24"x24"x4" ON EXISTING MAIN SWITCHBOARD. FIELD VERIFY LOCATION. SEE SINGLE LINE DIAGRAM 1/E-4.

SAW CUT AND PATCH EXISTING AC PAVING TO INSTALL UNDERGROUND POWER CONDUITS. PATCH BACK TO MATCH EXISTING. SEE SINGLE LINE DIAGRAM 1/E-4.

SAW CUT AND PATCH EXISTING AC PAVING TO INSTALL (1)2"C COMM, (1)2"C SIGNAL, (1)1-1/2"C FA, (1)2"C SPARE. PATCH BACK TO MATCH EXISTING. SEE RISER DIAGRAMS ON E-4.

PROVIDE 2"C FLEX WP CONDUIT BETWEEN BUILDING IN ATTIC SPACE FOR SIGNAL WIRING RACEWAY. CORE DRILL AND SEAL EXTERIOR WALL AS REQUIRED. SEE DETAIL

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TRACKING #:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES 03-118272 AC___FLSSPH_SS_CC DATE NOV - 8 2017

SEISMIC ANCHORAGE

TO COMPLY WITH 2016 CBC, TITLE 24, SECTION #1632A. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD ENGINEER OF THE DIVISION OF THE STATE



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