JOHN CABRILLO E.S. TELE-CENTER UPGRADE PROJECT 1141 SEAMAS AVENUE, SACRAMENTO, CA. 95822 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT PROJECT NUMBER: 0163-464

PROJECT DIRECTORY:

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT 5735 47TH AVENUE, SACRAMENTO, CA. 95824 PHONE: 916-643-7400



ELECTRICAL ENGINEER AND PROJECT COORDINATOR BORRELLI AND ASSOCIATES, INC. 2032 N. GATEWAY BOULEVARD, FRESNO, CA 93727 PHONE: 559-233-4138 FAX: 559-233-4354 HTTP://WWW.BORRELLIENGINEERING.COM/ CA-BAI@BORRELLIENGINEERING.COM JOHN BORRELLI, PE

3D VIEW THE BASE BID CONSISTS OF REPLACING THE EXISTING CLOCK AND PUBLIC ADDRESS SYSTEMS WITH A NEW IP

APPLICABLE CODES & REQUIREMENTS UBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS - CALIFORNIA CODE OF REGULATIONS TITLE 19 2022 CALIFORNIA ADMINISTRATIVE CODE - CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 1 (CAC)

SCOPE OF WORK

2022 California Building Code - California Code of Regulations Title 24, 2022 CALIFORNIA ELECTRICAL CODE - CALIFORNIA CODE OF REGULATIONS TITLE 24,

WORK TO NOT COMPLY WITH ALL APPLICABLE LAWS AND STANDARDS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE ENGINEER OF THE CONDITIONS. DIRECTION WILL BE GIVEN BY THE ENGINEER. 022 CALIFORNIA REFERENCED STANDARDS - CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 12

1.1 SYMBOL LIST, NOTES, AND ABBREVIATIONS

E3.1 BUILDINGS 'A' AND 'B' CLOCK AND PUBLIC ADDRESS FLOOR PLANS

e3.4 Buildings 'P02', 'P03', & 'P04' Clock and Public Address Floor Plans

E3.5 BUILDINGS 'E' & 'P05'-'P09' CLOCK AND PUBLIC ADDRESS FLOOR PLANS

E3.2 BUILDING 'C' CLOCK AND PUBLIC ADDRESS FLOOR PLAN

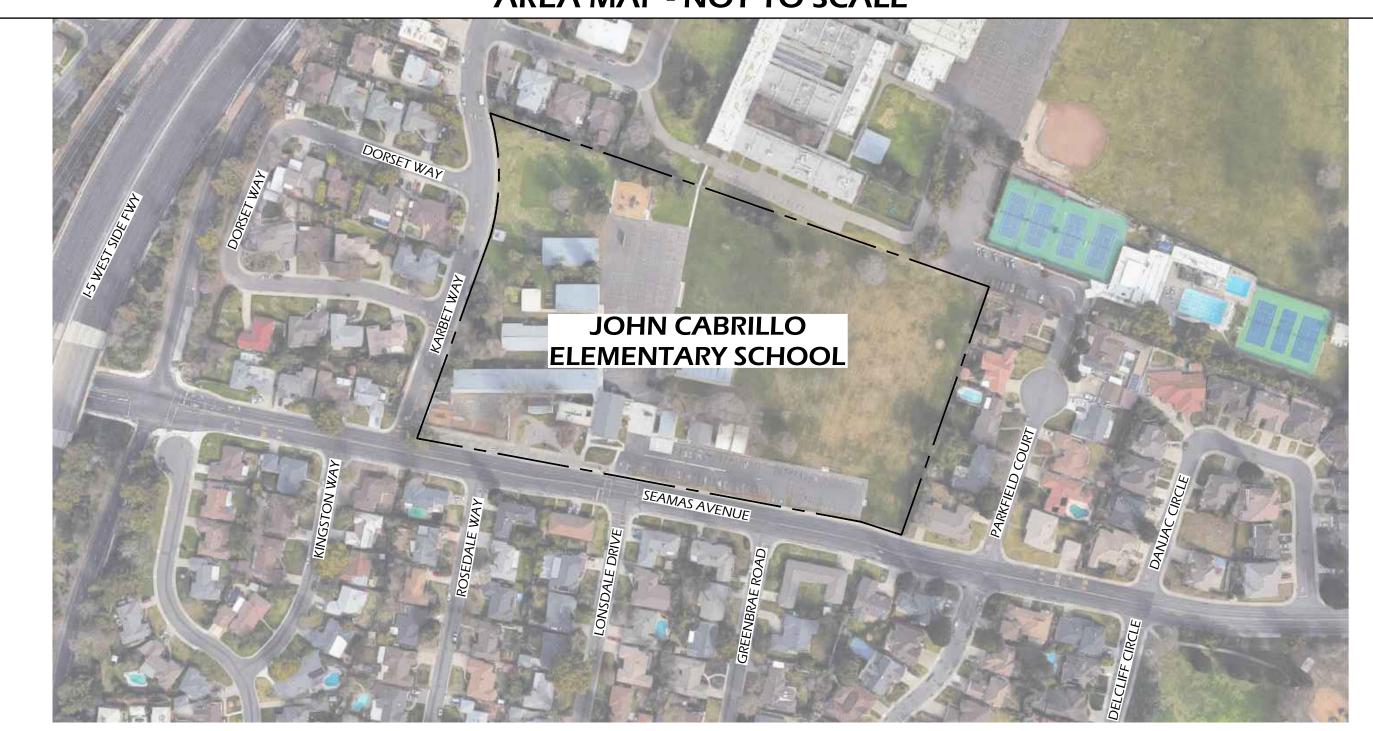
E3.3 BUILDING 'D' CLOCK AND PUBLIC ADDRESS FLOOR PLAN

E1.2 DIAGRAMS AND RACK ELEVATIONS

E2.1 ELECTRICAL SITE PLAN

E4.1 TYPICAL ELECTRICAL DETAILS

AREA MAP - NOT TO SCALE



ALTERNATES

'HIS PROJECT INCLUDES BOOK SPECIFICATIONS THAT, ALONG WITH THE PLANS, FORM THE CONSTRUCTION

SPECIFICATIONS

PROJECT SHEET LIST

ADMINISTRATIVE REQUIREMENTS

A COPY OF THE CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 SHALL BE KEPT ON SITE FOR

AND STANDARDS. IF THE CONTRACTOR SHALL DISCOVER EXISTING CONDITIONS THAT WILL CAUSE NEW

SECTION 260000 GENERAL ELECTRICAL REQUIREMENTS SECTION 260500 BASIC ELECTRICAL MATERIALS AND METHODS

ECTION 260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS CTION 263410 STATIC UNINTERRUPTABLE POWER SUPPLIES - BATTERY

SECTION 271500 COMMUNICATIONS HORIZONTAL CABLING

SECTION 272100 ACTIVE NETWORK EQUIPMENT

SECTION 275116 PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS

Verify scale: Bar is one inch on original drawing

Drawing Title:
TITLE SHEET

G1.1



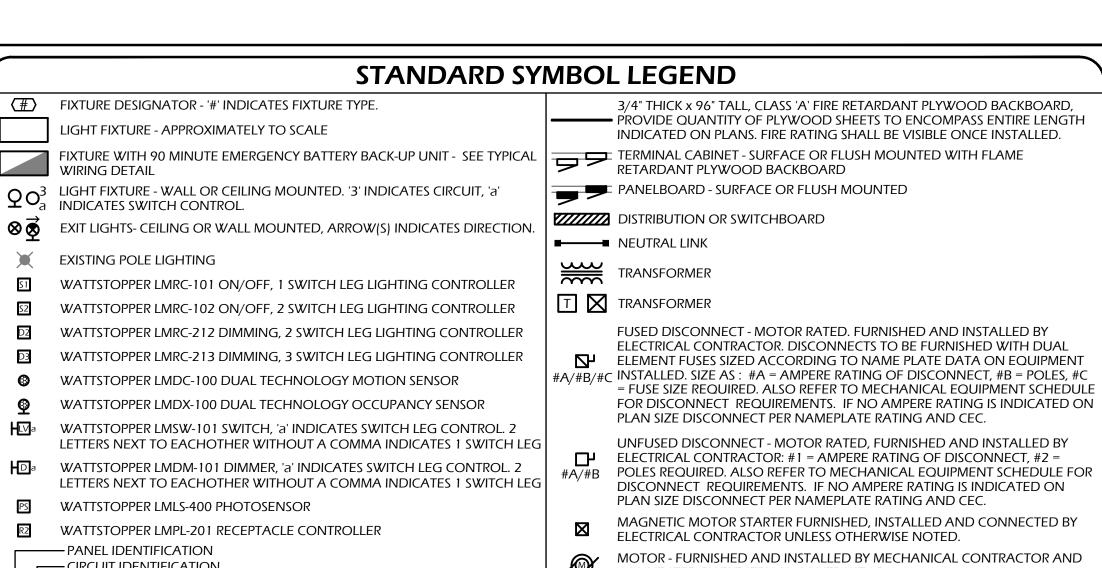
SCUSD Project Number:

ABBREVIATIONS ABOVE COUNTER ABOVE FINISHED FLOOR ALUMINUM CONDUCTOR OR BUS BOARD CONDUIT CABINET CABLE TELEVISION CIRCUIT BREAKER **CENTER TO CENTER** CONDUIT ONLY (EMPTY CONDUIT) WITH PULL WIRE **COMMUNICATIONS PULL BOX** COPPER CONDUCTOR OR BUS DISTRIBUTION PANEL EXISTING **EMERGENCY ELECTRIC METALLIC TUBING** END-OF-LINE **EMERGENCY POWER-OFF ELECTRIC WATER COOLER FUSE** F.A./FA FIRE ALARM FIRE ALARM CONTROL PANEL FURNISHED BY OTHER/FURNISHED BY FULL LOAD AMPS FLEXIBLE METALLIC CONDUIT FLOW SWITCH **GREEN GROUND WIRE** GROUND FAULT CIRCUIT INTERRUPT GROUND **GALVANIZED RIGID STEEL** HORIZONTAL CROSSCONNECT HIGH INTENSITY DISCHARGE HORSEPOWER HIGH PRESSURE SODIUM **INSTALLED BY OTHER** INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR INTERCOM INTERMEDIATE DISTRIBUTION FRAME (DATA) **ISOLATED GROUND** INTRUSION ALARM JUNCTION BOX KILOVOLTS KILOVOLTS-AMPERES KILOWATT LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT LIGHTING CONTROL PANEL LTGNC LIGHTING NETWORK CONTROLLER LIGHTING LOW VOLTAGE MOTOR CONTROL CENTER MOUNTED MOUNTING MAIN LUG ONLY NEUTRAL NOT IN CONTRACT NOT TO SCALE ON CENTER OWNER FURNISHED OWNER INSTALLE PHASE POLE PUBLIC ADDRESS SYSTEM PULL BOX POWER PULL BOX RECEPTACLE REFRIGERATOR RELOCATABLE BUILDING/ PORTABLE BUILDING ROOM RAPID START RACK UNIT SIGNAL CURRENT EXPANDER PANEL SECURITY LIGHT SIGNAL AND COMMUNICATION TERMINAL BACKBOARD SIGNAL PULL BOX SURGE SUPPRESSION DEVICE SIGNAL TERMINAL BOARD SIGNAL TERMINAL CABINET SWITCH TELEPHONE PULL BOX TAMPER SWITCH TELEPHONE TERMINAL TYPICAL TELEPHONE TERMINAL BOARD TELEPHONE TERMINAL CABINET UNDER COUNTER UNDERGROUND UNDERGROUND PULL SECTION UNLESS OTHERWISE NOTED

WIREMOLD

VOLTS/VOLTAGE WEATHERPROOF

GENERAL NOTES ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR. LIGHT FIXTURE - APPROXIMATELY TO SCALE MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A WIRING DETAIL NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED. NOTHING IN THESE PLANS OR SPECIFICATIONS MAY BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY CONSTRUCTION CODES. ALL EQUIPMENT SHALL HAVE TESTING LABORATORY LABEL ATTACHED (U.L. C.S.A. ETC.) AS PER C.E.C. 110. PROOF OF TESTING LABELS REQUIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THESE REQUIREMENTS. THE CONTRACTOR **EXISTING POLE LIGHTING** SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED THESE REQUIREMENTS. WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENT, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. INCLUDE ALL TESTING FEES IN BID. THE ENGINEERING SERVICE ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT SUPERVISING THE JOB. THE ENGINEER WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE OWNER OR HIS APPOINTEE. WORKING CLEARANCE SHALL BE MAINTAINED AS PER C.E.C FOR ALL PANEL(S), SERVICE EQUIPMENT. DISCONNECT SWITCH. ETC. LOCAL UTILITY COMPANY WORKING CLEARANCE REQUIREMENT SHALL ALSO BE OBSERVED. POWER EQUIPMENT MANUFACTURER'S PRODUCT MAY VARY IN DIMENSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WATTSTOPPER LMLS-400 PHOTOSENSOR OF WORKING CLEARANCE REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT PANEL IDENTIFICATION ENTRANCES OF ALL EQUIPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR PENETRATING EXTERIOR WALL(S) OF BUILDING(S). — CIRCUIT IDENTIFICATION SWITCH-LEG IDENTIFICATION IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE PROCEEDING. ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF. LIGHTING AND RECEPTACLE ROOM CONTROLLERS SHALL BE LOCATED ABOVE THE T-BAR CEILING FOR THE ROOMS THEY ARE CONTROLLING. IF THE ROOM WITH THE CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION CONTROLLED DEVICES HAS A HARD CEILING THEN LOCATE THE ROOM CONTROLLERS NECESSARY TO COMPLETE INSTALLATION, CHECKOUT AND INITIAL OPERATION. AT THE NEAREST ADJACENT ROOM WITH A T-BAR CEILING. IF NO T-BAR CEILINGS EXISTS LOCATE THE ROOM CONTROLLERS IN THE ELECTRICAL ROOM. LABEL ALL ROOM CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMEN LIGHTING AND RECEPTACLE CONTROLLERS WITH THE ROOM NAME, ROOM NUMBER, SHOWN AND SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE. AND CIRCUIT(S) THEY CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED SKYLIT OR PRIMARY SIDE DAYLIT ZONE HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK ALL OF THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE SITE VISIT SHALL BE MADE PRIOR TO SUBMITTING THE BID. BIDDERS SHALL PREARRANGE A SITE SECONDARY SIDE DAYLIT ZONE VISIT WITH THE OWNER/ARCHITECT. \$a SPST TOGGLE WALL SWITCH - 20A, 120/277V, `a' INDICATES CONTROL . THE CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS WHEN BIDDING THE JOB. **\$**OC OCCUPANCY SENSOR COMBO WALL SWITCH - 20A, 120/277V RATED . ALL NEW FACEPLATES SHALL BE FLUSH WITH THE WALL. PROVIDE EXTENSION RINGS WHERE $\mathfrak{O}\mathfrak{Q}$ ceiling or wall mounted junction box NECESSARY. PULLBOX(S) - SIZE AND NUMBER AS INDICATED PATCH AND REPAIRED ALL REMOVED CONCRETE TO MATCH ADJACENT SURFACES. RECEPTACLE, DUPLEX - 20A, 120V & GROUND RECEPTACLE, DUPLEX CEILING MOUNTED RECEPTACLE, DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED RECEPTACLE, DUPLEX- WITH GFCI PROTECTION RECEPTACLE, DOUBLE DUPLEX CEILING MOUNTED FLUSH FLOOK BOX - CARPET PLATE WHERE REQUIRED. $oldsymbol{\Phi}$ RECEPTACLE, SPECIAL - REFER TO FLOOR PLAN FOR RECEPTACLE SIZE. ▼ STUB-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO RECEPTACLE, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED. RECEPTACLE WITH ONE-HALF SWITCHED/CONTROLLED, FLUSH FLOOR BOX CARPET PLATE WHERE REQUIRED.



CONNECTED BY ELECTRICAL CONTRACTOR. FIRE SPRINKLER HEAD. REFER TO OTHER DISCIPLINE PLANS. INTRUSION ALARM DOOR CONTACT PROVISION, SEE TYPICAL DETAILS. INTRUSION ALARM KEYPAD

INTRUSION ALARM MOTION DETECTOR, AIM AS INDICATED ON PLANS. **₹** GROUND CIRCUIT BREAKER

WIREMOLD 5400 SERIES DUAL CHANNEL IVORY RACEWAY. PROVIDE ALL ACCESSORIES, FITTINGS, DIVIDERS, ETC FOR A COMPLETE AND FULLY

CONDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT. SWITCH LEGS. ETC. PROVIDE SEPARATE

NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD

CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S).

CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS

CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP

WIREMOLD RACEWAY VERTICAL RUNS. PROVIDE ALL ELBOWS, FITTINGS, AND CONNECTORS AS NECESSARY FOR A COMPLETE RACEWAY SYSTEM. NEW ELECTRICAL EQUIPMENT EXISTING ELECTRICAL EQUIPMENT TO REMAIN

EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED

CONDUCTOR(S). SIZE CONDUIT PER NEC.

 $\left(\begin{array}{c} \frac{\pi}{\#} \end{array}\right)$ REFERENCE TO PLAN/DETAIL/DIAGRAM

-- EXISTING ABOVE GROUND CONDUIT

---- EXISTING UNDERGROUND CONDUIT

SIZE CONDUIT PER NEC.

CONDUIT- UP

── CONDUIT-DOWN

GROUND WIRE WITH GREEN INSULATION SIZE PER N.E.C., U.O.N. WP RECEPTACLE, DUPLEX - WITH GFCI PROTECTION IN WEATHERPROOF

20A, 120V RECEPTACLE, DUPLEX- WITH TWO USB PORTS RECEPTACLE, DOUBLE DUPLEX - (2) 20A, 120V & GROUND

RECEPTACLE, DOUBLE DUPLEX WITH GFCI PROTECTION RECEPTACLE, DOUBLE DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED RECEPTACLE, DOUBLE DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED,

TELEPHONE OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT.

THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM. DATA OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP ☑ INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM.

TELEPHONE OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED. DATA OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.

INTERCOM OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED. FLUSH, FLOOR MOUNTED DUPLEX RECEPTACLE, DATA JACK, AND TELEPHONE JACK.

DATA OUTLET, CEILING MOUNTED

DRAWINGS.

CEILING OR WALL MOUNTED WIRELESS ACCESS POINT PROVISIONS. PROVIDE AND INSTALL ONE DATA CABLE FROM EACH ACCESS POINT TO IDF. FOR HARD CEILINGS TERMINATE THE CABLES INTO A BOX WITH COVER PLATE. $^{
m)}$ for t-bar ceilings terminate the cables into a cube cat-6 port and CURL UP THE CABLE WITH 10-FEET OF SLACK. LEAVE ABOVE THE T-BAR CEILING. PROVIDE A LABEL BENEATH THE T-BAR CEILING TO INDICATE DATA

ELECTRICAL EQUIPMENT NOTES THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL

ARRANGEMENT OF ELECTRICAL EQUIPMENT, DEVICES AND WIRING. SEE SECTION 260000 OF THE SPECIFICATIONS.

FOR THE EXACT LOCATION OF ELECTRICAL EQUIPMENT AND DEVICES SEE THE ARCHITECTURAL ELEVATIONS, DETAILS AND DIMENSIONS SHOWN ON THE

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3/4". PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND (#) SHEET NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET. GENERAL NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.

XX X DESIGNATES SIZE AND QUANTITY OF FEEDERS SEE FEEDER SCHEDULE PROVIDE AND INSTALL TWO MALE F-TYPE CONNECTORS AND TV FACEPLATE. THE CABLE TV HEADEND & TERMINATE WITH A MALE F-TYPE CONNECTOR.

TELEVISION OUTLET IN FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED, SEE TELEVISION SYMBOL. $\mathbb{R}_{(4)(2)}$ Number in Parenthesis Indicates quantity of Devices. Typical for ₩₩₩ ALL TYPES OF DEVICES.

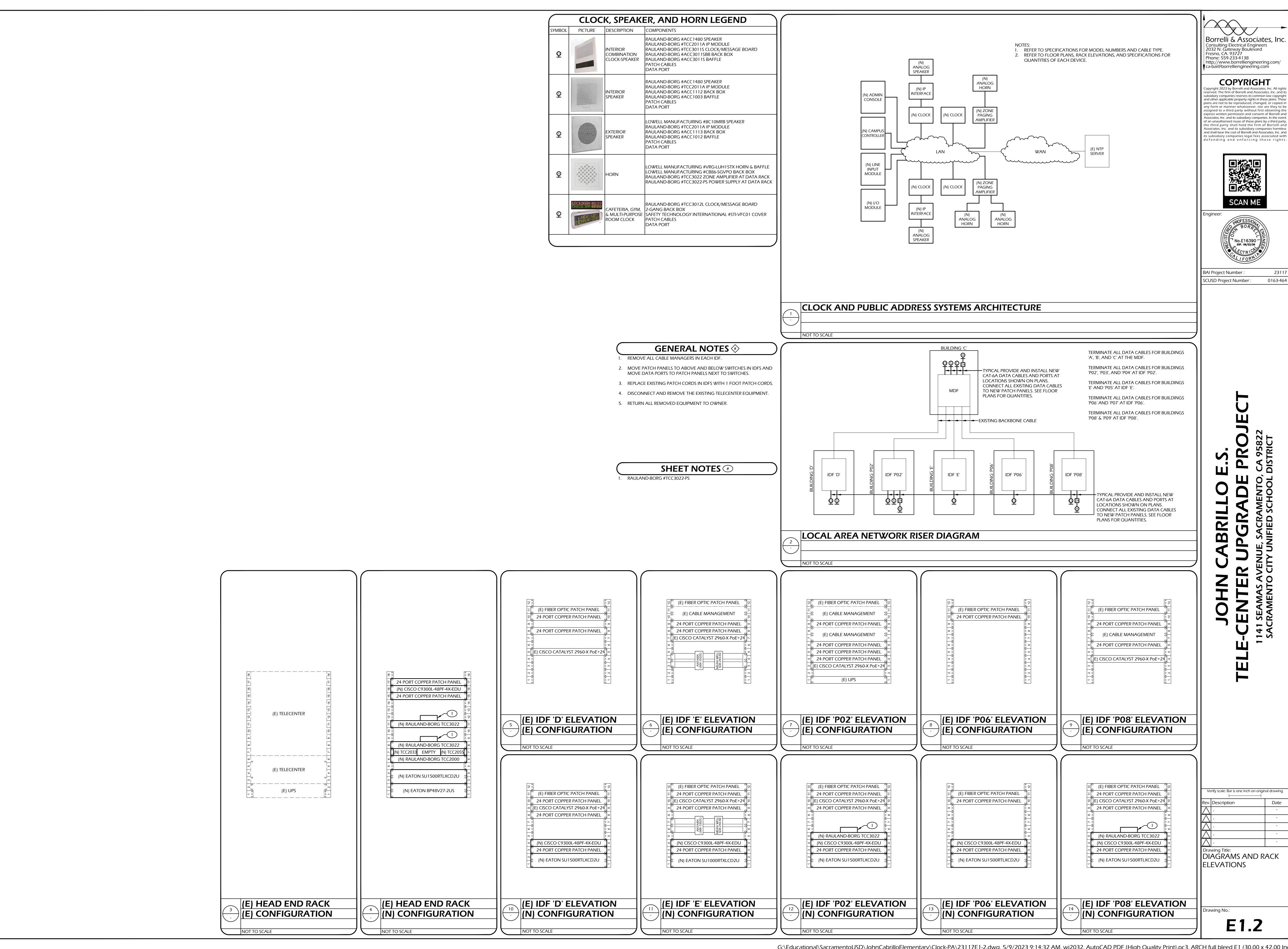
SPEAKER - WALL OR CEILING MOUNTED, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS.

CLOCK, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS. COMBINATION CLOCK & SPEAKER, SEE CLOCK & SPEAKER SYMBOLS. Verify scale: Bar is one inch on original drawing Rev. Description Drawing Title: SYMBOL LIST, NOTES,

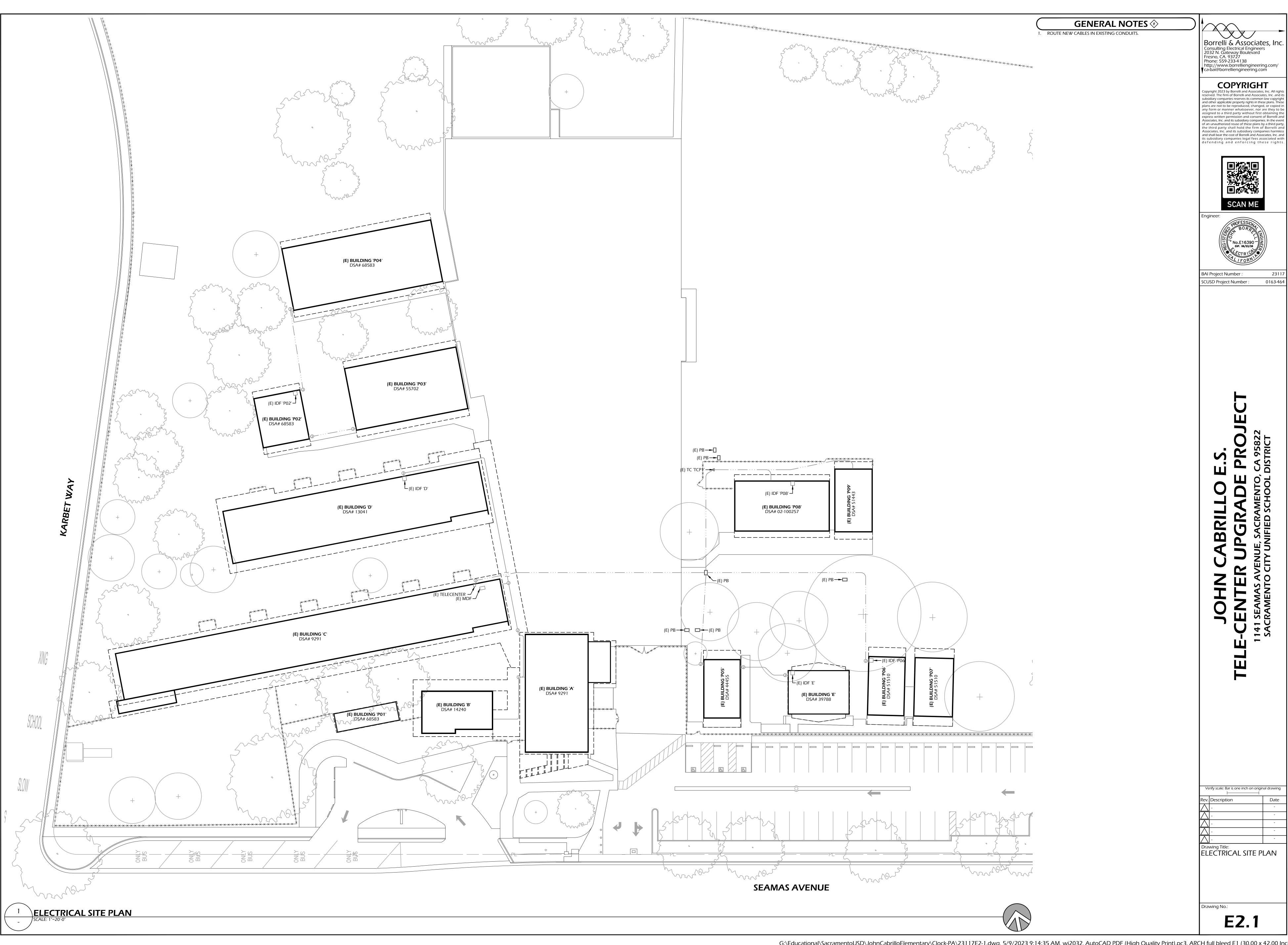
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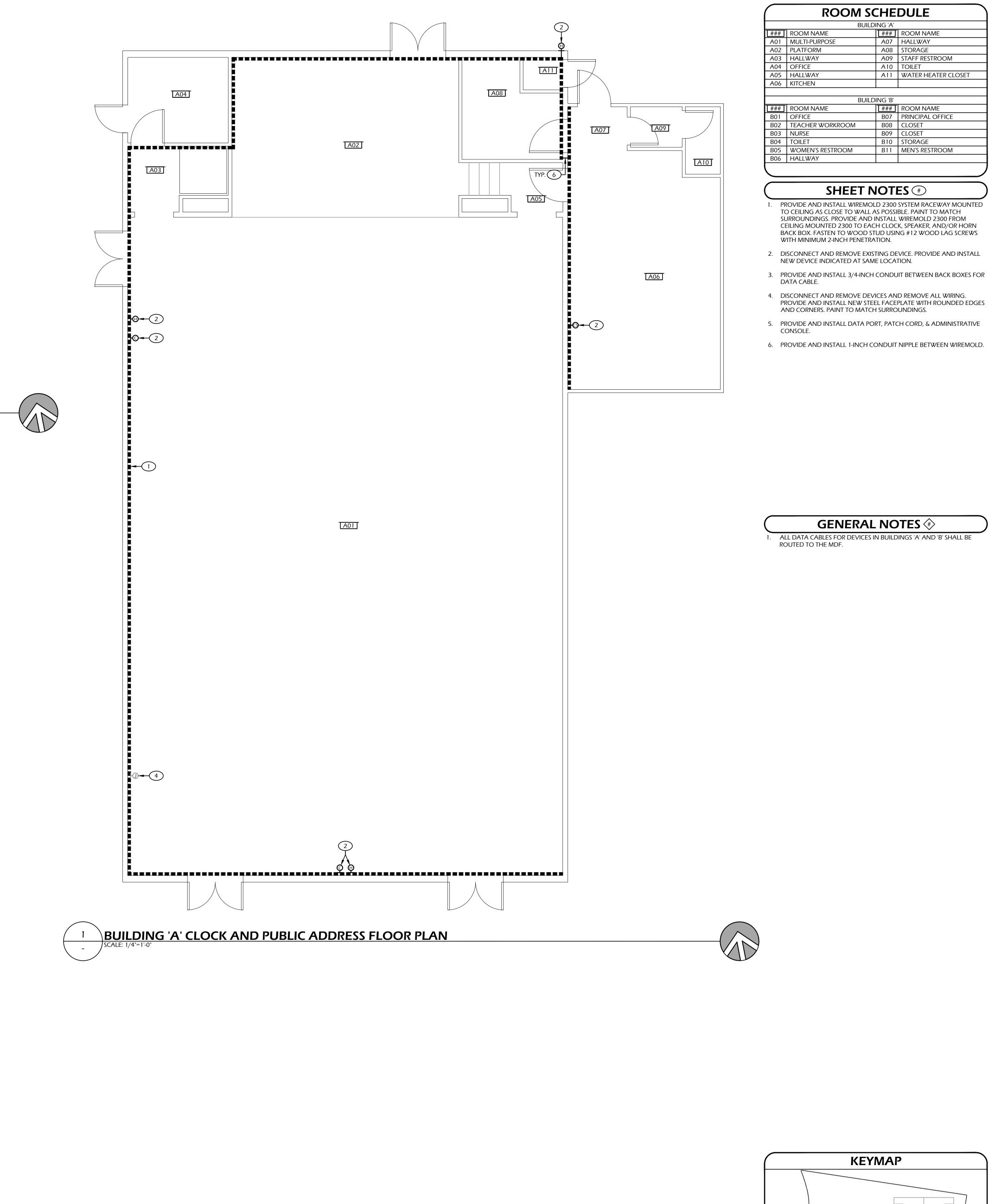
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(E) BELL BOX

BUILDING 'B' CLOCK AND PUBLIC ADDRESS FLOOR PLAN

| SCALE: 1/4"=1"-0"

(E) MASTER CLOCK

1

2 **-**©

B01

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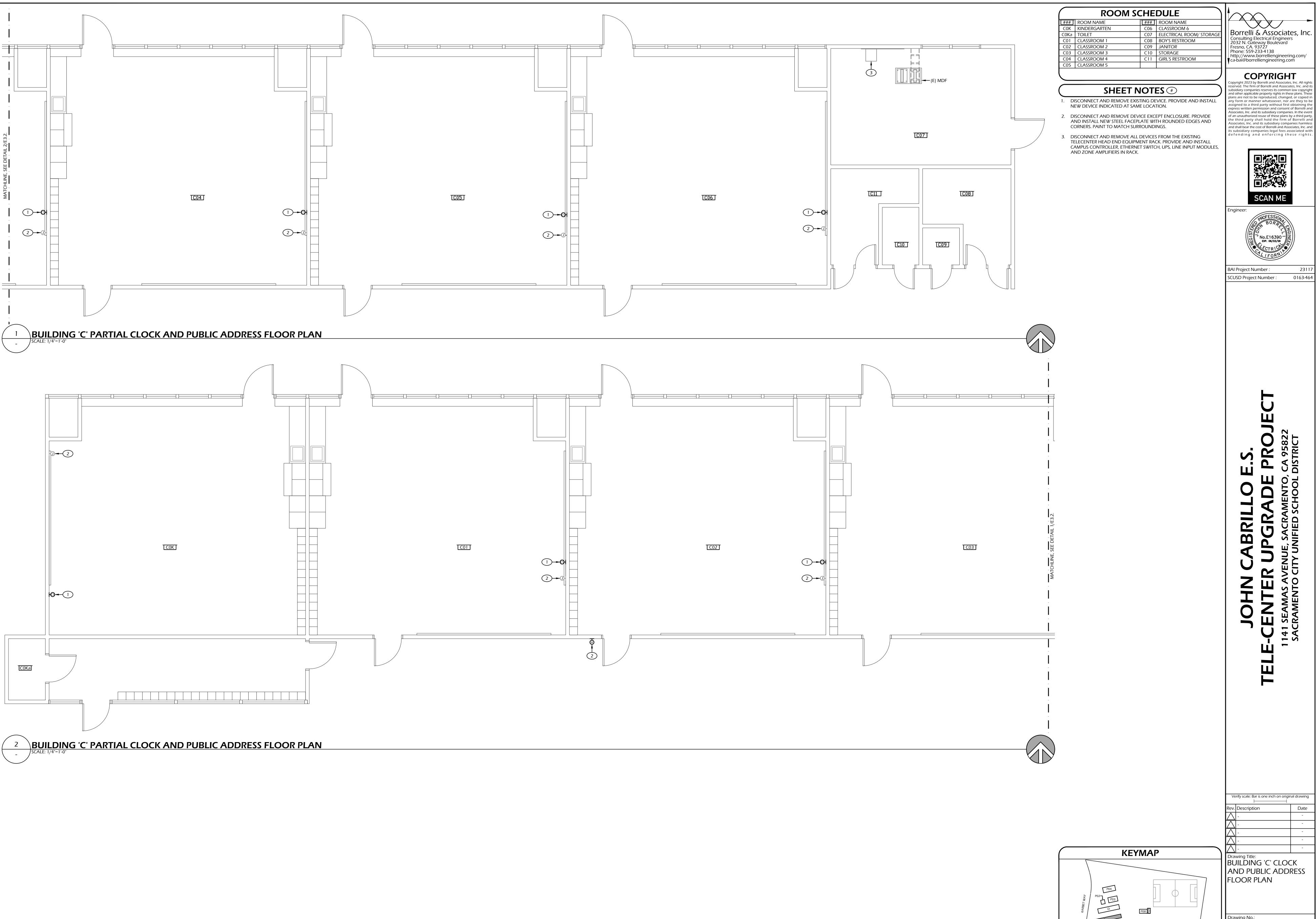
GENERAL NOTES 🏵

ALL DATA CABLES FOR DEVICES IN BUILDINGS 'A' AND 'B' SHALL BE ROUTED TO THE MDF.

B09 | CLOSET

Verify scale: Bar is one inch on original drawing Rev. Description Drawing Title:
BUILDINGS 'A' AND 'B'
CLOCK AND PUBLIC ADDRESS FLOOR PLANS

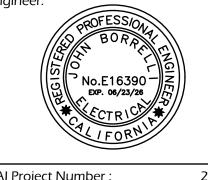
E3.1



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Drawing Title:
BUILDING 'C' CLOCK
AND PUBLIC ADDRESS FLOOR PLAN

E3.2

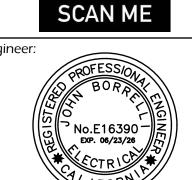


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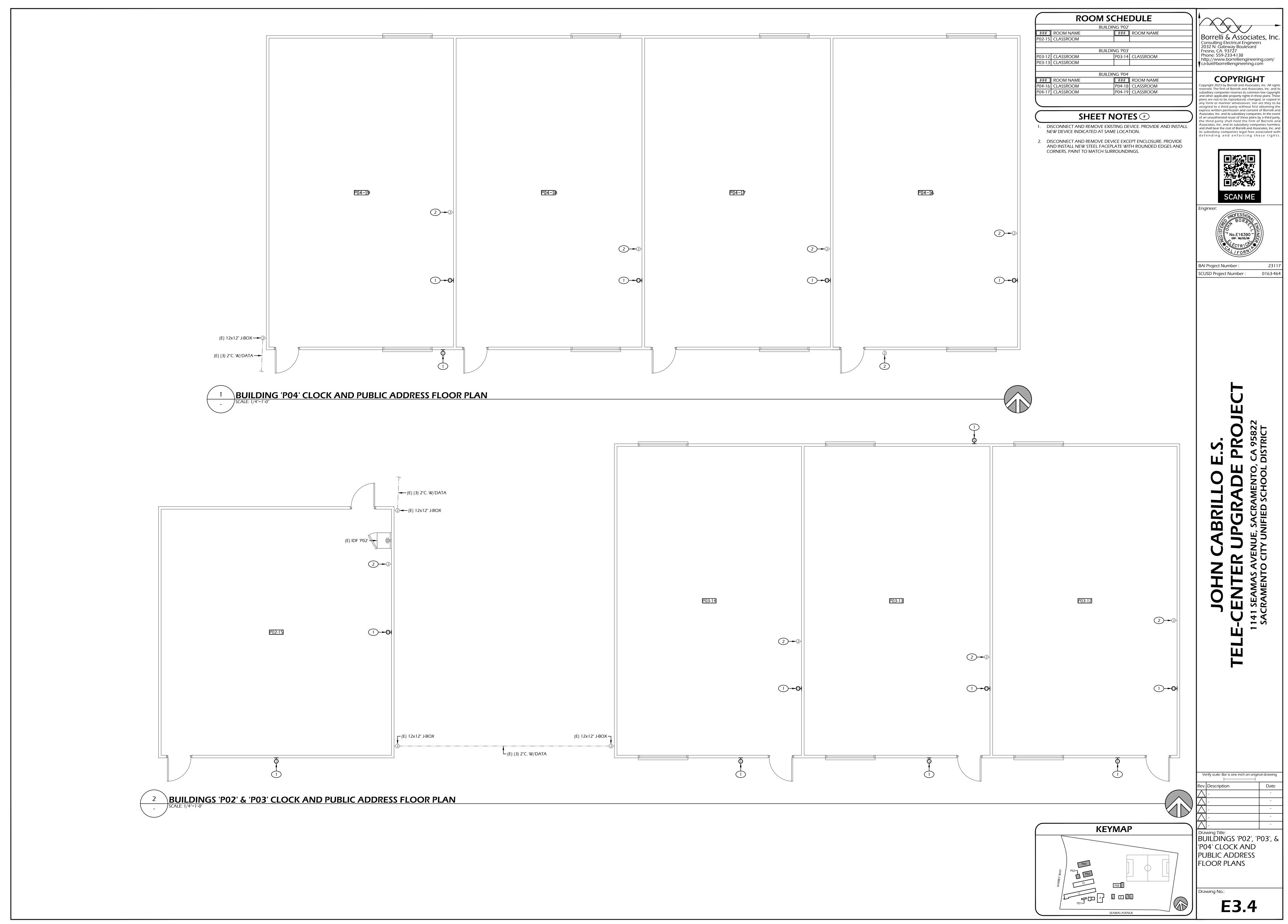
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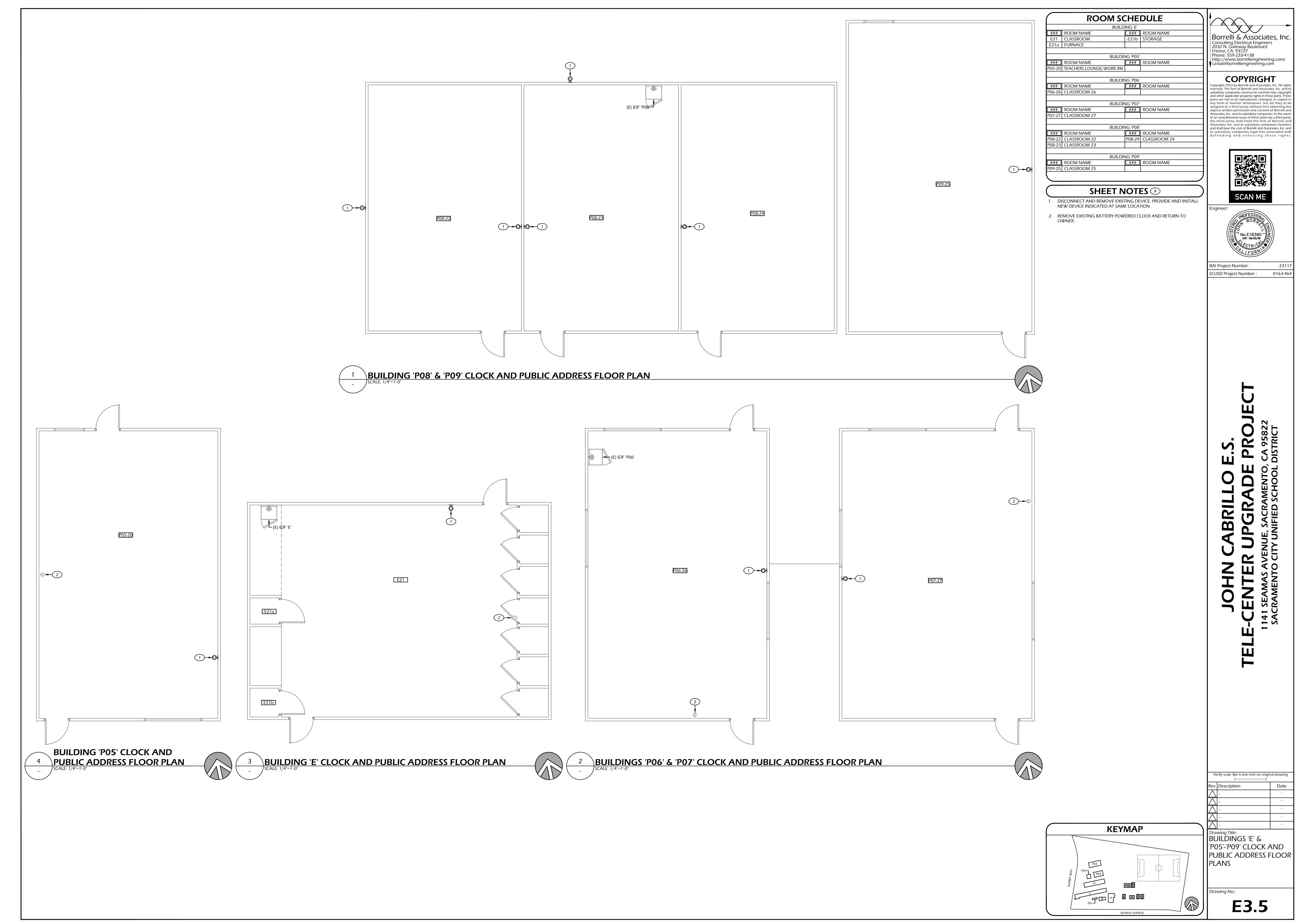
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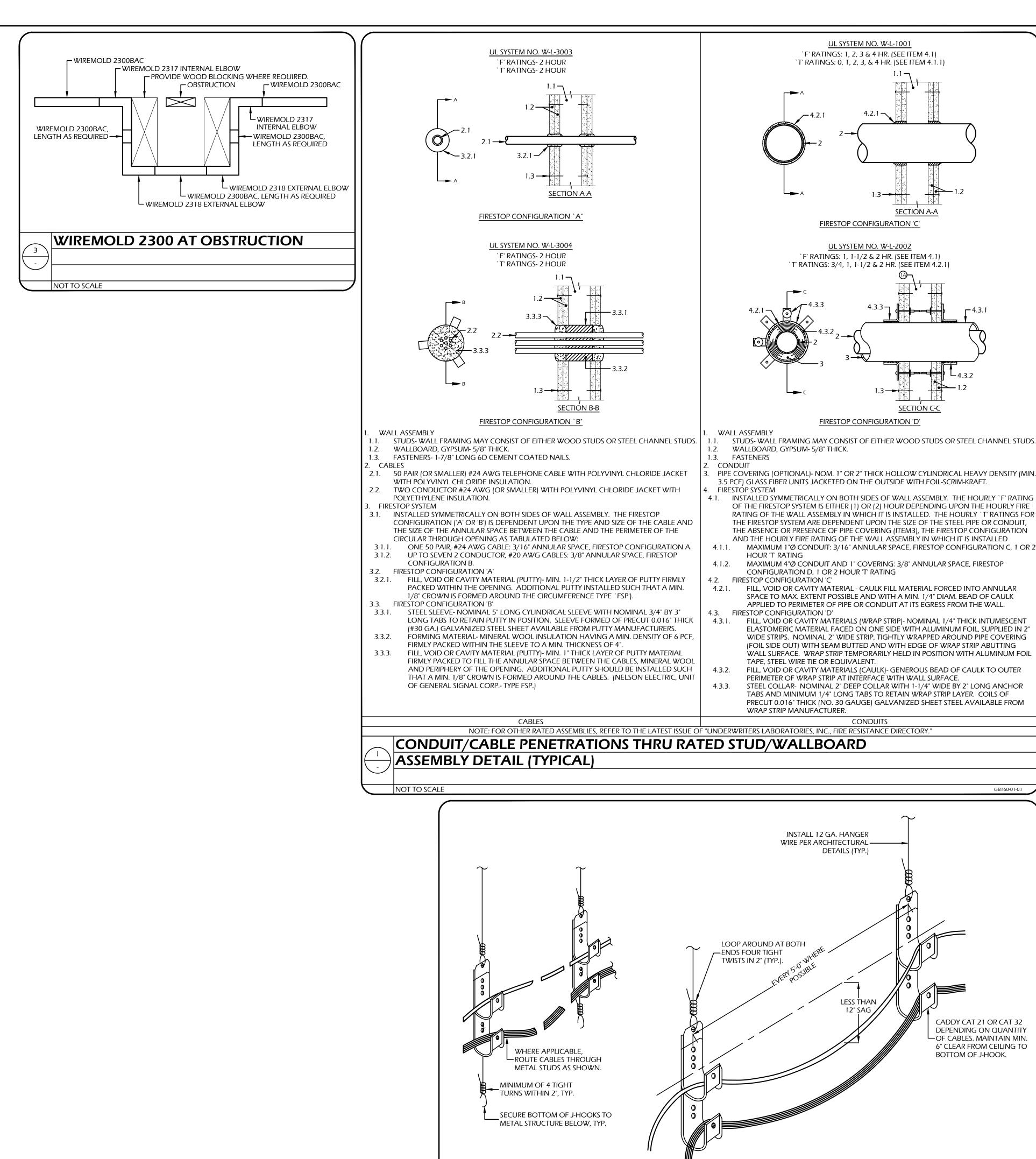
Rev. Description

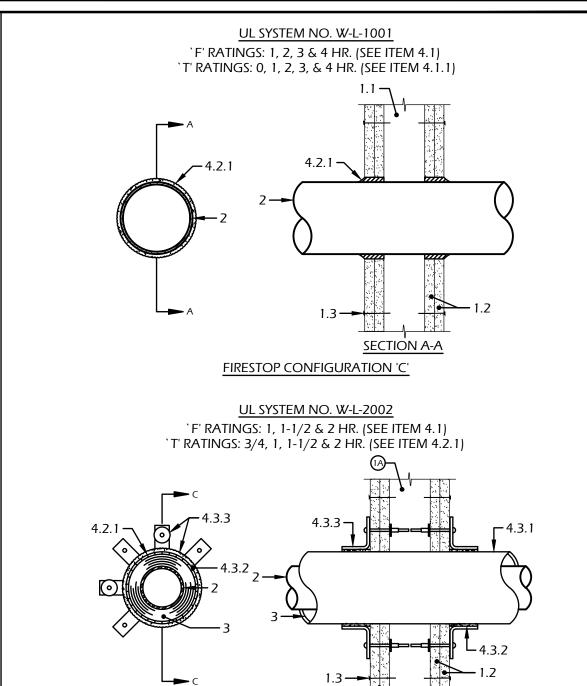
Drawing Title:
BUILDING 'D' CLOCK
AND PUBLIC ADDRESS FLOOR PLAN

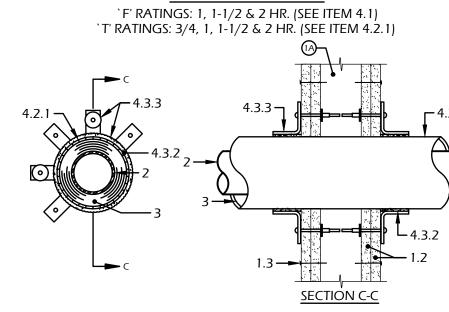
E3.3











PIPE COVERING (OPTIONAL)- NOM. 1" OR 2" THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH FOIL-SCRIM-KRAFT. 4.1. INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY `F' RATING

OF THE FIRESTOP SYSTEM IS EITHER (1) OR (2) HOUR DEPENDING UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE HOURLY 'T' RATINGS FOR THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE SIZE OF THE STEEL PIPE OR CONDUIT, THE ABSENCE OR PRESENCE OF PIPE COVERING (ITEM3), THE FIRESTOP CONFIGURATION AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED 4.1.1. MAXIMUM 1"Ø CONDUIT: 3/16" ANNULAR SPACE, FIRESTOP CONFIGURATION C, 1 OR 2

MAXIMUM 4"Ø CONDUIT AND 1" COVERING: 3/8" ANNULAR SPACE, FIRESTOP CONFIGURATION D, 1 OR 2 HOUR 'T' RATING

4.2.1. FILL, VOID OR CAVITY MATERIAL - CAULK FILL MATERIAL FORCED INTO ANNULAR SPACE TO MAX. EXTENT POSSIBLE AND WITH A MIN. 1/4" DIAM. BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL.

ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2" WIDE STRIPS. NOMINAL 2" WIDE STRIP, TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED AND WITH EDGE OF WRAP STRIP ABUTTING WALL SURFACE. WRAP STRIP TEMPORARILY HELD IN POSITION WITH ALUMINUM FOIL FILL, VOID OR CAVITY MATERIALS (CAULK)- GENEROUS BEAD OF CAULK TO OUTER

PERIMETER OF WRAP STRIP AT INTERFACE WITH WALL SURFACE. STEEL COLLAR- NOMINAL 2" DEEP COLLAR WITH 1-1/4" WIDE BY 2" LONG ANCHOR TABS AND MINIMUM 1/4" LONG TABS TO RETAIN WRAP STRIP LAYER. COILS OF PRECUT 0.016" THICK (NO. 30 GAUGE) GALVANIZED SHEET STEEL AVAILABLE FROM

CONDUITS

NOTE: FOR OTHER RATED ASSEMBLIES, REFER TO THE LATEST ISSUE OF "UNDERWRITERS LABORATORIES, INC., FIRE RESISTANCE DIRECTORY."

FREE AIR CABLING APPLIES TO ACCESSIBLE ATTIC SPACES ONLY. CABLING SHALL NOT BE INSTALLED EXPOSED TO VIEW.

ALL HARDWARE & SUSPENSION WIRES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

J-HOOK CABLING SUPPORT DETAIL

IN EXPOSED AREAS, CABLING SHALL BE INSTALLED IN CONDUIT.

NOT TO SCALE

CADDY CAT 21 OR CAT 32 DEPENDING ON QUANTITY OF CABLES. MAINTAIN MIN.
6" CLEAR FROM CEILING TO BOTTOM OF J-HOOK.

> Verify scale: Bar is one inch on original drawing Rev. Description Drawing Title:
> TYPICAL ELECTRICAL DETAILS

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E4.1