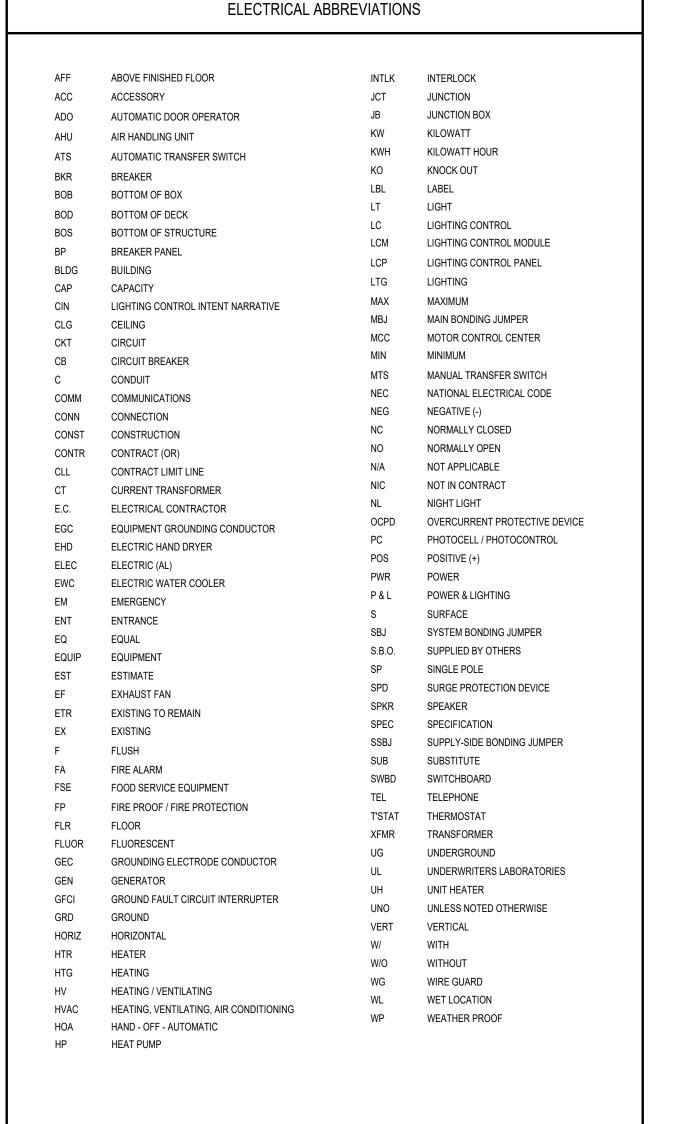
ISSUANCES 11.25.2024 BIDS & CONSTRUCTION

DRAWN BJF REVIEWED JDM

PROJECT NO. NO PART OF THIS DRAWING MAY BE USED OR REPRODUCED IN ANY FORM OR BY ANY MEANS, OR STORED IN A DATA BASE OR RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN GMB COPYRIGHT © 2024 ALL RIGHTS RESERVED

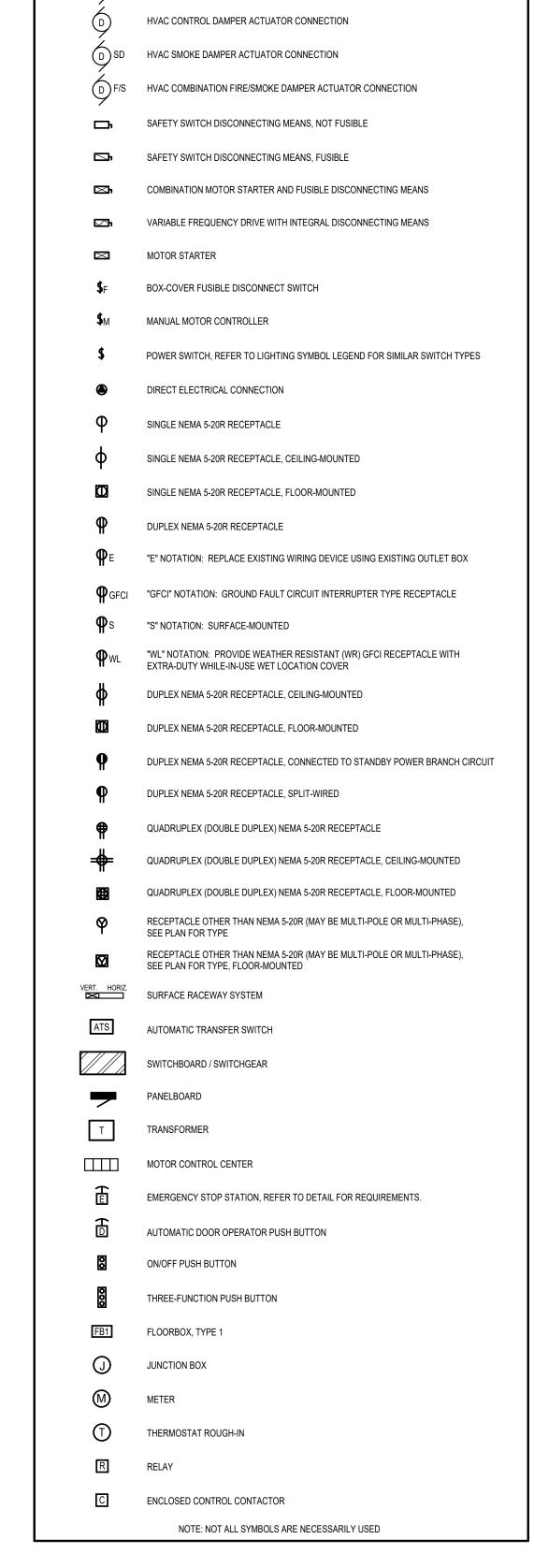
ELECTRICAL SYMBOL **LEGENDS & GENERAL NOTES**

NOTE: ALL HEIGHTS ARE AS SHOWN UNLESS NOTED OTHERWISE.



	ASE, 20A C	CIRCUIT, 7	ET) BASEI 5% LOAD, % VOLTA(100% P.F		PHASE,	30A CIRC	UIT, 75% L	BASED ON LOAD, 100 OLTAGE D	% P.F., IN
CIRCUIT VOLTAGE	CONDUCTOR SIZE					CIRCUIT	CONDUCTOR SIZE			
	#12 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG	VOLTAGE	#10 AWG	#8 AWG	#6 AWG	#4 AWG
120	60	100	150	245	385	120	60	100	150	245
208	100	170	265	425	670	208	100	170	265	425
277	135	230	355	565	890	277	135	230	355	565
480	240	400	615	980		480	240	400	615	980
ONE-WAY LENGTH (FEET) BASED ON THREE PHASE, 20A CIRCUIT, 75% LOAD, 100% P.F., IN STEEL CONDUIT, 3% VOLTAGE DROP CIRCUIT CONDUCTOR SIZE					PHASE,	ONE-WAY LENGTH (FEET) BASED ON THREE PHASE, 30A CIRCUIT, 75% LOAD, 100% P.F., IN STEEL CONDUIT, 3% VOLTAGE DROP CONDUCTOR SIZE				
CIRCUIT	#12 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG		#10 AWG	#8 AWG	#6 AWG	#4 AWG
		200	305	490	775	208	120	200	305	490
CIRCUIT /OLTAGE 208	120	200				480			-	

	COMMUNICATIONS SYMBOL LEGEND
¥	COMMUNICATIONS OUTLET ROUGH-IN
②	COMMUNICATIONS OUTLET, CEILING-MOUNTED
	COMMUNICATIONS OUTLET, FLOOR-MOUNTED
	CEILING-MOUNTED VIDEO PROJECTOR
	COMMUNICATIONS EQUIPMENT RACK, FLOOR-MOUNTED 2-POST
	COMMUNICATIONS EQUIPMENT RACK, FLOOR-MOUNTED 4-POST
	COMMUNICATIONS EQUIPMENT RACK, WALL-MOUNTED
 3	CONDUIT SLEEVE FOR COMMUNICATIONS CABLING, 2" DIA. OR EQUIV. FREE AREA TY UNLESS NOTED OTHERWISE. IN FIRE-RATED AND/OR SMOKE BARRIER WALLS, REFEI TO SPECIFICATIONS FOR ACCEPTABLE FIRESTOP AND SMOKE SEAL PRODUCTS.
S 1	LOUDSPEAKER, CEILING-MOUNTED, TYPE 1
<u>§1</u>	LOUDSPEAKER, WALL-MOUNTED, TYPE 1
CS	INTERCOM SYSTEM CALL STATION BUTTON
VC	VOLUME CONTROL FOR AUDIO SYSTEM, PAGING, OR INTERCOM LOUDSPEAKERS
© 1	SECONDARY CLOCK, CEILING-MOUNTED, TYPE 1
<u>©</u> 1	SECONDARY CLOCK, WALL-MOUNTED, TYPE 1
B	SIGNALING BELL
	NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED



POWER SYMBOL LEGEND

THREE PHASE MOTOR CONNECTION, 5 HORSEPOWER (EXAMPLE)

SINGLE PHASE MOTOR CONNECTION, 1/2 HORSEPOWER (EXAMPLE)

LIGHTING SYMBOL LEGEND SINGLE POLE TOGGLE SWITCH **\$**2 DOUBLE POLE TOGGLE SWITCH THREE-WAY TOGGLE SWITCH FOUR-WAY TOGGLE SWITCH Sos Single Pole Switch with Integral Occupancy Sensor SOSD SINGLE POLE SWITCH WITH INTEGRAL OCCUPANCY SENSOR AND DIMMER WALL-BOX DIMMER SWITCH THREE-WAY WALL-BOX DIMMER SWITCH ELECTRONIC INTERVAL TIMER SWITCH LIGHT SWITCH WITH PILOT LIGHT LIGHTING CONTROL SWITCH, REFER TO LIGHTING CONTROL SWITCH SCHEDULE AND SPECIFICATIONS FOR DETAILS. DOUBLE-THROW (MAINTAINED) LIGHT SWITCH (SUFFIX DESIGNATION -- NONE: SINGLE POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOUR-WAY) (SUFFIX DESIGNATION -- NONE: SINGLE-POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOUR-WAY) TOUCHSCREEN PANEL CIRCUIT NUMBER FOR LIGHT FIXTURES WITHIN INDICATED SPACE WALL-MOUNTED LIGHTING FIXTURE, TYPE 'A' RECESSED LIGHTING FIXTURE, TYPE 'A' SURFACE-MOUNTED LIGHTING FIXTURE, TYPE 'A' TRACK LIGHTING SINGLE FACE EXIT SIGN, TYPE "X1" IN SCHEDULE UNLESS OTHERWISE NOTED, SHADING INDICATES FACE ORIENTATION DOUBLE FACE EXIT SIGN, TYPE "X2" IN SCHEDULE UNLESS OTHERWISE NOTED, SHADING INDICATES FACE ORIENTATION WALL-MOUNTED EXIT SIGN, SHADING INDICATES FACE ORIENTATION EMERGENCY LIGHT FIXTURE DESIGNATION EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY LIGHTING CONTROL RELAY LIGHTING CONTROL ENCLOSED CONTACTOR TIME SWITCH LIGHTING CONTROL MODULE LIGHTING CONTROL PANEL EMERGENCY LIGHTING INVERTER, TYPE 1 WALL-MOUNTED OCCUPANCY SENSOR CEILING-MOUNTED OCCUPANCY SENSOR WALL-MOUNTED PHOTOCELL FOR ON/OFF CONTROL CEILING-MOUNTED PHOTOCELL FOR ON/OFF CONTROL WALL-MOUNTED PHOTOSENSOR FOR DAYLIGHT HARVESTING DIMMING CONTROL CEILING-MOUNTED PHOTOSENSOR FOR DAYLIGHT HARVESTING DIMMING CONTROL POLE-MOUNTED SITE/AREA FIXTURE SELF-CONTAINED EMERGENCY LIGHTING UNIT NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED

AUDIBLE NOTIFICATION APPLIANCE, WALL-MOUNTED VISUAL NOTIFICATION APPLIANCE, WALL-MOUNTED AUDIBLE/VISUAL NOTIFICATION APPLIANCE, WALL-MOUNTED AUDIBLE NOTIFICATION APPLIANCE, CEILING-MOUNTED VISUAL NOTIFICATION APPLIANCE, CEILING-MOUNTED AUDIBLE/VISUAL NOTIFICATION APPLIANCE. CEILING-MOUNTED FIRE PROTECTION OR ALARM BELL MANUAL PULL STATION SMOKE DETECTOR HEAT DETECTOR DUCT SMOKE DETECTOR CARBON MONOXIDE DETECTOR KEYED TEST SWITCH AND REMOTE INDICATOR FOR DUCT SMOKE DETECTOR FIRE PROTECTION FLOW SWITCH; PROVIDE SUPERVISED INPUT TO FIRE ALARM SYSTEM PRESSURE SWITCH; PROVIDE SUPERVISED INPUT TO FIRE ALARM SYSTEM FIRE PROTECTION TAMPER SWITCH; PROVIDE SUPERVISED INPUT TO FIRE ALARM SYSTEM ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE ADDRESSABLE RELAY FOR FIRE ALARM CONTROL NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY FIRE ALARM REMOTE ANNUNCIATOR FIRE ALARM CONTROL PANEL WHERE "WG/PC" IS NOTED, PROVIDE LISTED WIRE GUARD OR PROTECTIVE POLYCARBONATE COVER FOR DAMAGE RESISTANCE OF ASSOCIATED DEVICE WHERE "WL" IS NOTED, PROVIDE LISTED WET-LOCATION VERSION OF ASSOCIATED DEVICE, SUITABLE FOR INDOOR OR OUTDOOR USE NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED

FIRE DETECTION & ALARM SYMBOL LEGEND

ELECTRONIC SAFETY / SECURITY SYMBOL LEGEND DOOR CONTACT ELECTRONIC LATCH ELECTRONIC STRIKE INTRUSION DETECTION KEYPAD INTERCOM STATION WALL-MOUNTED SURVEILLANCE CAMERA COMMUNICATIONS ROUGH-IN CEILING-MOUNTED SURVEILLANCE CAMERA COMMUNICATIONS ROUGH IN WALL-MOUNTED SURVEILLANCE CAMERA, TYPE 1 CEILING-MOUNTED SURVEILLANCE CAMERA, TYPE 1 WALL-MOUNTED INFRARED MOTION DETECTOR CEILING-MOUNTED INFRARED MOTION DETECTOR WALL-MOUNTED ULTRASONIC MOTION DETECTOR CEILING-MOUNTED ULTRASONIC MOTION DETECTOR CARD READER CARD READER, MULLION-MOUNTED ACCESS CONTROL DOOR TAG, REFER TO HARDWARE SCHEDULE(S) IN SECTION 08 71 00 AND/OR SECTION 28 10 00 FOR FURTHER DETAILED REQUIREMENTS ACCESS CONTROL SYSTEM EQUIPMENT INTRUSION DETECTION SYSTEM EQUIPMENT

SYSTEM AND ACCESSIBLE FOR FUTURE MAINTENANCE. OTHERWISE, ALL CABLING (INCLUDING BUT NOT LIMITED TO CABLES ASSOCIATED WITH SYSTEMS SUCH AS ARCHITECTURAL EQUIPMENT, BUILDING ENERGY MANAGEMENT, TEMPERATURE CONTROLS, LIGHTING CONTROLS, COMMUNICATIONS NETWORKS, TELEPHONE AUDIO-VIDEO INTERCOM PAGING CLOCK SURVEILLANCE ACCESS CONTROL FIRE ALARM ETC.) SHALL BE INSTALLED IN AN APPROVED CONDUIT, RACEWAY SYSTEM, AND/OR CABLE TRAY UNLESS

POWER SUPPLY UNIT NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED

OTHERWISE NOTED. IN EXPOSED STRUCTURE CEILING AREAS, CONCEALED INSTALLATION OF CABLES IN RACEWAYS SHALL BE REQUIRED FOR AESTHETIC REASONS: REFER TO REFLECTED CEILING PLANS FOR LOCATION(S). THIS APPLIES TO ALL TRADES AND WORK CATEGORIES. EXCEPTIONS: A. DEDICATED MECHANICAL AND/OR ELECTRICAL ROOMS ABOVE 8'-0" AFF B. DEDICATED TELECOMMUNICATIONS ROOMS ALL DEVICES SHOWN TO BE INSTALLED ON EXISTING WALLS SHALL BE INSTALLED FLUSH; CUT IN BOXES AND FISH WALLS WITH FLEXIBLE CONDUIT AS REQUIRED. DOCUMENT AND COORDINATE EXCEPTIONS WITH ARCHITECT/ENGINEER IN WRITING FOR REVIEW IN FIELD. IF WALL IS PROVEN NOT ABLE TO BE FISHED, PROVIDE SURFACE RACEWAY SYSTEMS PER SECTION 26 05 33.23, SHALL BE PROVIDED BY THE CONTRACTOR; SUCH COSTS SHALL BE INCLUDED IN BID. SURFACE-MOUNTED CONDUIT IS NOT ACCEPTABLE WHERE EXPOSED TO VIEW IN SPACES OTHER THAN DEDICATED MECHANICAL/ELECTRICAL "LOW-VOLTAGE" CONTROLS, COMMUNICATIONS, AND SAFETY/SECURITY CABLING SHALL NOT BE PAINTED. CONTRACTORS INSTALLING CABLING WHERE APPROVED FOR EXPOSED INSTALLATION SHALL INSTALL CABLES AFTER PAINTING HAS BEEN COMPLETED OR PROVIDE TEMPORARY PROTECTION OF CABLES UNTIL PAINTING HAS BEEN COMPLETED. PROVIDE TEMPORARY PROTECTION OF ANY EXISTING CABLING PRIOR TO PAINTING EXISTING AREAS. PAINTED CABLES SHALL BE REPLACED AT THE EXPENSE OF THE NEGLIGENT CONTRACTOR. METAL CLAD CABLE MAY BE USED FOR FIXTURE WHIPS IN LENGTHS OF 6 FEET OR LESS ABOVE AN ACCESSIBLE SUSPENDED CEILING SYSTEM ONLY. OTHERWISE, METAL CLAD OR OTHER FLEXIBLE CABLE TYPES SHALL NOT BE USED UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. IT IS THE INTENT OF THESE CONTRACT DOCUMENTS THAT ALL INSTALLED BRANCH CIRCUITS CONSIST OF SEPARATE RACEWAY AND CONDUCTORS ALLOWING REMOVAL AND REPLACEMENT OF WIRING AS REQUIRED FOR FUTURE UPGRADES. REFER TO SPECIFICATIONS FOR EXCEPTIONS. CIRCUIT WIRING FOR ARTICLE 700 EMERGENCY SYSTEMS AND ARTICLE 708 CRITICAL OPERATIONS POWER SYSTEMS SHALL BE INSTALLED IN SEPARATE CONDUITS/RACEWAYS AND BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT PER NEC REQUIREMENTS ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR SIZED ACCORDING TO THE NEC RACEWAYS INCLUDING CONDUITS, BOXES, WIREWAYS, ETC. SHALL NOT BE CONSIDERED AN ACCEPTABLE GROUND. CONDUITS AND CABLING SHALL NOT BE INSTALLED WITHIN 4" OF ROOF DECK, EXCEPT AS NECESSARY TO SERVE ROOF-MOUNTED ITEMS AND ONLY WHEN THE CONDUIT OR CABLE IS ROUTED VERTICALLY TO SUCH EQUIPMENT FROM BELOW. CLEARANCE SHALL BE PERMITTED TO BE REDUCED TO 1 1/2" WHERE SUPPLEMENTAL METAL FRAMING MEMBERS PROVIDE AN EFFECTIVE BARRIER BETWEEN THE ROOF DECK SUPPLEMENTAL METAL FRAMING SHALL BE PROVIDED FOR SUSPENSION POINTS OF ALL ITEMS LOCATED BETWEEN STRUCTURAL MEMBERS (JOISTS, TRUSSES, BEAMS, ETC.) IN OPEN/VISIBLE STRUCTURE CEILING OR SUPPORT COLUMN AREAS. METAL FRAMING SHALL SPAN ACROSS THE TOP CHORD OR FLANGE OF OVERHEAD STRUCTURAL MEMBERS FOR BOTH STRUCTURAL AND AESTHETIC PURPOSES. SPECIFIC EXCEPTIONS SHALL BE COORDINATED IN WRITING WITH THE ARCHITECT/ENGINEER. 10. CONDUIT INSTALLED WITHIN INACCESSIBLE CONSTRUCTION SHALL BE 3/4" MINIMUM SIZE. 1. FEEDERS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. CONDUIT RUNS SHALL COMPLY WITH CONDUIT SPECIFICATIONS AND CONTAIN BENDS THAT ARE NO GREATER THAN 90 DEGREES. CONDUITS INSTALLED ABOVE GRADE SHALL BE RUN PARALLEL TO, OR PERPENDICULAR WITH, BUILDING STEEL AND/OR ARCHITECTURAL LINES. 2. CONTRACTOR(S) SHALL VERIFY COLOR/FINISH OF WIRING DEVICES, DEVICE FACEPLATES, SURFACE RACEWAY SYSTEMS, AND/OR MULTI-OUTLET ASSEMBLIES WITH ARCHITECT/ENGINEER IF NOT EXPLICITLY 13. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE MOUNTING LOCATIONS, ARRANGEMENTS, AND 14. ELECTRICAL CONTRACTOR SHALL ADJUST LIGHTING FIXTURE LOCATIONS IN MECHANICAL ROOMS TO ACCOMMODATE MECHANICAL EQUIPMENT, DUCTWORK, AND RELATED FIELD CONDITIONS. 15. CONTRACTOR(S) SHALL BE RESPONSIBLE TO REVIEW INTERIOR ELEVATION SHEETS FOR PLACEMENT OF DEVICE BOXES. COORDINATE LOCATIONS SO THAT NO DEVICES ARE INSTALLED BEHIND CASEWORK, MILLWORK, VISUAL DISPLAY BOARDS, MIRRORS, CUSTOM GRAPHICS, SIGNAGE, ETC. 16. ELECTRICAL CONTRACTOR SHALL REVIEW TOILET EQUIPMENT SHOP DRAWINGS AND ARCHITECTURAL DETAILS/ELEVATIONS FOR CORRECT DEVICE BOX ROUGH-IN LOCATION OF HAND DRYERS. 17. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND THE ELECTRIC OF PLUMBING EQUIPMENT POWER CONNECTIONS. READILY ACCESSIBLE GFCI PROTECTION SHALL BE PROVIDED FOR THE BRANCH CIRCUIT(S) SUPPLYING ALL SUCH UNITS PER NEC REQUIREMENTS. 18. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DETAILED INFORMATION REGARDING EQUIPMENT AND CONTROL. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND PROVIDING ITEMS AS SPECIFICALLY LISTED AND ASSIGNED ON MECHANICAL EQUIPMENT SCHEDULE SUCH AS DISCONNECT SWITCHES, VARIABLE FREQUENCY DRIVES, STARTERS, TIMERS, SWITCHES, ETC. 19. ELECTRICAL CONTRACTOR SHALL CONFIRM THE LOCATION OF THE EXHAUST FANS LISTED IN THE MECHANICAL EQUIPMENT SCHEDULES BY REFERRING TO MECHANICAL/HVAC PLANS. 20. REFER TO ROOF PLANS FOR EXACT LOCATIONS OF ROOF-TOP MECHANICAL EQUIPMENT. 1. PROVIDE FLUSH SINGLE-GANG BOXES IN WALLS FOR HVAC / TEMPERATURE CONTROL DEVICES, AT LEAST ONE PER OCCUPIABLE ROOM OR SPACE. INSTALL 3/4" CONDUIT RACEWAY FROM BOX TO CORRESPONDING TEMPERATURE CONTROL SYSTEM DEVICE OR CONTROLLED UNIT. REFER TO MECHANICAL DRAWINGS FOR PROPOSED LOCATIONS AND COORDINATE WITH MECHANICAL / TEMPERATURE CONTROLS CONTRACTOR'S SHOP DRAWINGS. 2. CABINET UNIT HEATERS MAY HAVE LINE-VOLTAGE THERMOSTATS SUPPLIED BY MECHANICAL

ELECTRICAL GENERAL NOTES

ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AS AMENDED AND ADOPTED BY THE

ALL "LOW-VOLTAGE" CONTROLS, COMMUNICATIONS, AND SAFETY/SECURITY CABLING MAY BE INSTALLED

WITHOUT CONDUIT, RACEWAY, OR CABLE TRAY ONLY WHERE CONCEALED ABOVE A SUSPENDED CEILING

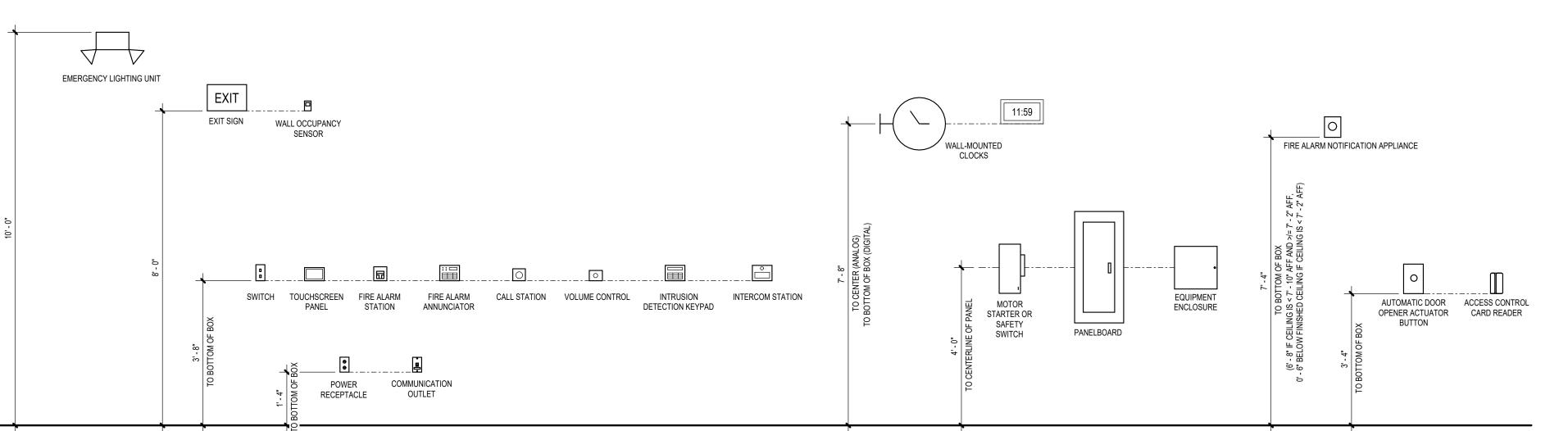
LOCAL AUTHORITY HAVING JURISDICTION WHERE THE WORK IS PERFORMED.

CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO MECHANICAL EQUIPMENT 23. DIVISION 26 CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES WITH APPROPRIATE BUSHINGS FOR CONTROLS AND ELECTRONIC SAFETY/SECURITY CABLING THROUGH WALLS AND FLOORS. SLEEVE SIZES SHALL BE COORDINATED WITH CABLING REQUIREMENTS.

24. SECTION 27 05 28 CONTRACTOR SHALL PROVIDE DEDICATED CONDUIT SLEEVES WITH APPROPRIATE BUSHINGS THROUGH WALLS AND FLOORS FOR DIV. 27 COMMUNICATIONS AND DIV. 28 SAFETY/SECURITY CABLING. SLEEVE SIZE SHALL BE MINIMUM 2" DIA. OR EQUIVALENT FREE AREA UNLESS NOTED OTHERWISE. SPECIFIED CABLE PATHWAY PENETRATION DEVICES SHALL BE SUBSTITUTED FOR CONDUIT SLEEVES WHERE THERE IS A REQUIRED RATING IN THE CONSTRUCTED ASSEMBLY. 25. BUILDING SYSTEMS CABLING SHALL BE SLEEVED WHERE CABLES PASS THROUGH WALLS. NO CABLING

SHALL PASS THROUGH OR OVER THE TOP OF WALL CONSTRUCTION WITHOUT THE USE OF A SLEEVE. DIVISION 26 CONTRACTOR SHALL PROVIDE SLEEVES (UNLESS OTHERWISE ASSIGNED) AND COORDINATE WITH ARCHITECTURAL TRADES DURING THE WALL CONSTRUCTION PROCESS. THIS REQUIREMENT APPLIES TO EXISTING CABLING IN FOOTPRINT OF ANY NEW WALLS: PROVIDE SPLIT SLEEVES IF CABLING CANNOT BE DISCONNECTED. FIELD-VERIFY QUANTITIES AND LOCATIONS, OR COORDINATE USE OF ALLOWANCES FOR SLEEVES WITH PROJECT ADMINISTRATIVE REQUIREMENTS. 26. PROVIDE DIRECT CONNECTIONS FROM DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) TO

ACCESS CONTROL SYSTEM AND DOOR HARDWARE POWER SUPPLIES WHERE REQUIRED FOR DOOR LOCK DEVICES, CONTROLLERS, ETC. REFER TO DOOR HARDWARE SCHEDULE AND ACCESS CONTROL SYSTEM SCHEDULE IN RESPECTIVE SPECIFICATIONS FOR QUANTITIES AND LOCATIONS. 7. ALL CONTROLS, COMMUNICATIONS, AND ELECTRONIC SAFETY/SECURITY CABLING SHALL BE PLENUM



TYPICAL MOUNTING HEIGHTS FOR WALL DEVICES, EQUIPMENT, & FIXTURES

E0.01

POWER & COMMUNICATION GENERAL NOTES

2. REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF

4. PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION

VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE

3. ALL GENERAL-USE 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE; REFER TO NEC 406.12 AND SPECIFICATION SECTION 26 27 26.

FIRE/SMOKE DAMPERS.

A. CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY) IN LOCAL PANELBOARD FOR DAMPER(S) IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).

B. TERMINATE W/BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH

C. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER (UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET).

 PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.

 PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) MECHANICAL AND/OR

PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS

6. DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT

7. CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATION(S) ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATION(S). CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED FOR CONTINUED OPERATION UNDER LOSS OF

8. COORDINATE INSTALLATION OF ALL OWNER PROVIDED, OWNER INSTALLED CEILING AND WALL MOUNTED SPEAKERS, WAPS, CLOCKS, AV, AND OTHER

G-1 INCLUDE GENERATOR AND ASSOCIATED DEVICES, CIRCUITS, AND DISTRIBUTION EQUIPMENT AS PART OF ALTERNATE G-1.

P02 INSTALL MOMENTARY DOOR UNLOCK PUSHBUTTON MAINTAINED FROM DEP

P03 CONNECT TO EXISTING NEARBY CIRCUIT FROM DEMO. INSTALL FUSIBLE

P04 (TYP.) SPEAKERS, WIRELESS ACCESS POINTS, PROJECTORS, AND MOUNTING HARDWARE TO BE PROVIDED AND INSTALLED BY OWNER. LOCATIONS AND AMOUNTS ARE APPROXIMATE, COORDINATE FINAL LOCATIONS AND AMOUNT

P05 (TYP.) CLOCKS TO BE PROVIDED AND INSTALLED BY OWNER. REUSE EXIST

P06 CONNECT CIRCUIT TO EXISTING 1 POLE 20A CIRCUIT BREAKER IN PANEL. UPDATE PANEL SCHEDULES ACCORDINGLY.
P07 INSTALL DUAL CHANNEL SURFACE RACEWAY MAINTAINED FROM DEMO.

P09 PROVIDE ROUGH-IN FOR NEW CLOCK. COORDINATE FINAL LOCATION WITH

P10 CONNECT CIRCUIT TO NEW 3 POLE 35A CIRCUIT BREAKER IN PANEL 'C'.
UPDATE PANELBOARD SCHEDULES ACCORDINGLY.

P01 CONNECT TO EXISTING NEARBY CIRCUIT FROM DEMO.

DISCONNECT SWITCH MAINTAINED FROM DEMO.

CONDUIT AND BOXES UNLESS NOTED OTHERWISE

EXTEND EXISTING CIRCUIT TO NEW LOCATION.

UPDATE PANEL SCHEDULES ACCORDINGLY.

WITH OWNER PRIOR TO ROUGH-IN.

OWNER PRIOR TO INSTALL.

ELECTRICAL KEYNOTES

PATHWAYS, HANGERS, AND SUPPORTS.

COMMUNICATIONS DEVICES WITH OWNER.

CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, VAV BOXES, ETC.

1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.01.

11.25.2024 BIDS & CONSTRUCTION

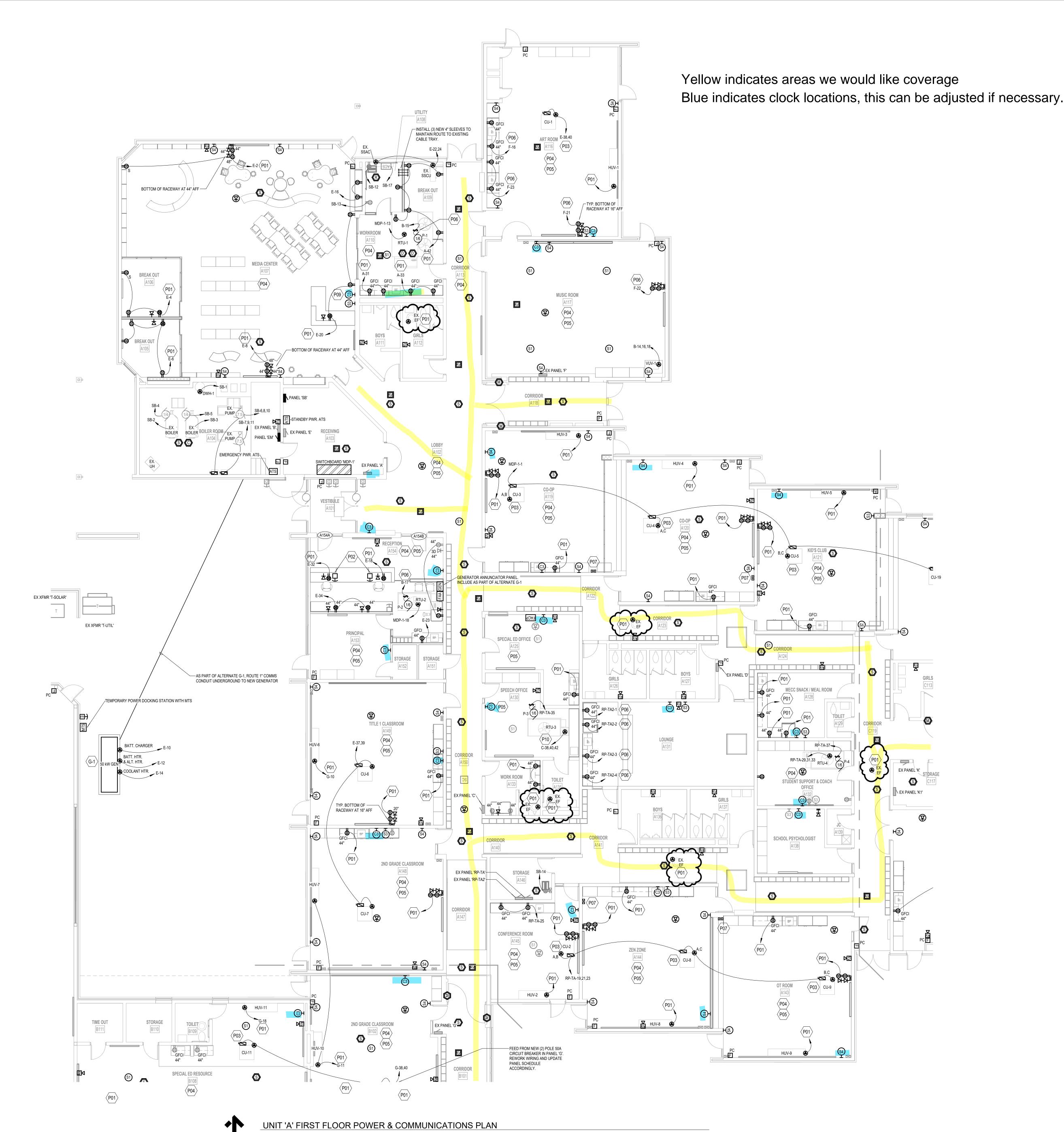
12.05.2024 ADDENDUM 001

NO PART OF THIS DRAWING MAY BE USED OR REPRODUCED IN ANY FORM OR BY ANY MEANS, OR STORED IN A DATA BASE OR RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN PERMISSION OF

UNIT 'A' FIRST FLOOR POWER & COMMUNICATIONS PLAN

ALL RIGHTS RESERVED

E2.1A



3. ALL GENERAL-USE 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE; REFER TO NEC 406.12 AND SPECIFICATION SECTION 26 27 26.

A. CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY) IN LOCAL PANELBOARD FOR DAMPER(S) IN EACH AREA (DAMPERS MAY BE GROUPED ON EACH CIRCUIT).

B. TERMINATE W/ BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH

DAMPER.

C. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER (UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET).

D. PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS. 5. PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) MECHANICAL AND/OR

INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, VAV BOXES, ETC. DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT

CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATION(S) ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATION(S). CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED FOR CONTINUED OPERATION UNDER LOSS OF

COORDINATE INSTALLATION OF ALL OWNER PROVIDED, OWNER INSTALLED CEILING AND WALL MOUNTED SPEAKERS, WAPS, CLOCKS, A/V, AND OTHER COMMUNICATIONS DEVICES WITH OWNER.

	ELECTRICAL KEYNOTES
G-1	INCLUDE GENERATOR AND ASSOCIATED DEVICES, CIRCUITS, AND DISTRIBUTION EQUIPMENT AS PART OF ALTERNATE G-1.
P01	CONNECT TO EXISTING NEARBY CIRCUIT FROM DEMO.
P03	CONNECT TO EXISTING NEARBY CIRCUIT FROM DEMO. INSTALL FUSIBLE DISCONNECT SWITCH MAINTAINED FROM DEMO.
P04	(TYP.) SPEAKERS, WIRELESS ACCESS POINTS, PROJECTORS, AND MOUNTING

HARDWARE TO BE PROVIDED AND INSTALLED BY OWNER. LOCATIONS AND AMOUNTS ARE APPROXIMATE, COORDINATE FINAL LOCATIONS AND AMOUNT WITH OWNER PRIOR TO ROUGH-IN. 05 (TYP.) CLOCKS TO BE PROVIDED AND INSTALLED BY OWNER. REUSE EXIS CONDUIT AND BOXES UNLESS NOTED OTHERWISE. P06 CONNECT CIRCUIT TO EXISTING 1 POLE 20A CIRCUIT BREAKER IN PANEL. UPDATE PANEL SCHEDULES ACCORDINGLY.

INSTALL DUAL CHANNEL SURFACE RACEWAY MAINTAINED FROM DEMO. EXTEND EXISTING CIRCUIT TO NEW LOCATION. CONNECT CIRCUIT TO NEW 3 POLE 35A CIRCUIT BREAKER IN PANEL 'C'. UPDATE PANELBOARD SCHEDULES ACCORDINGLY. P11 CONNECT CIRCUIT TO NEW 3 POLE 15A CIRCUIT BREAKER IN PANEL 'J'. UPDATE PANELBOARD SCHEDULES ACCORDINGLY.

1ST GRADE CLASSROOM

SCHOOL

12.05.2024 ADDENDUM 001

REVIEWED JDM

PROJECT NO. NO PART OF THIS DRAWING MAY BE USED OR REPRODUCED IN ANY FORM OR BY ANY MEANS, OR STORED IN A DATA BASE OR RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN

UNIT 'B' FIRST FLOOR POWER & COMMUNICATIONS PLAN

GMB COPYRIGHT © 2024 ALL RIGHTS RESERVED

Blue indicates clock locations, this can be adjusted if necessary. 4. PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES PATHWAYS, HANGERS, AND SUPPORTS. AS PART OF ALTERNATE G-1, ROUTE 1" COMMS CONDUIT UNDERGROUND TO NEW GENERATOR TEMPORARY POWER DOCKING STATION WITH MTS E-37,39 8 ALT. HTR. E-12 COOLANT HTR. __ E-14 TYP. BOTTOM OF — 2ND GRADE CLASSROOM P04 P05 EX PANEL 'RP-<mark>TA2</mark>' CIRCUIT BREAKER IN PANEL 'G'. REWORK WIRING AND UPDATE PANEL SCHEDULE ACCORDINGLY.

Yellow indicates areas we would like coverage

UNIT 'B' FIRST FLOOR POWER & COMMUNICATIONS PLAN

GYMNASIUM

DRY STORAGE

77

STORAGE

POWER & COMMUNICATION GENERAL NOTES

2. REFER TO CODE COMPLIANCE PLAN FOR LOCATIONS AND RATINGS OF VERTICAL AND HORIZONTAL BUILDING ASSEMBLIES. PROVIDE APPROPRIATE FIRESTOPPING SYSTEMS PER SPECIFICATIONS TO MEET ALL APPLICABLE

3. ALL GENERAL-USE 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING

4. PROVIDE 120VAC POWER FOR ALL SMOKE DAMPERS AND COMBINATION

(DAMPERS MAY BE GROUPED ON EACH CIRCUIT).

RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE; REFER TO NEC 406.12 AND

A. CONNECT TO DEDICATED 20A BRANCH CIRCUIT (WITH BREAKER LOCK-ON ACCESSORY) IN LOCAL PANELBOARD FOR DAMPER(S) IN EACH AREA

C. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR WITHIN 5 FEET OF EACH DAMPER (UNLESS COVERED BY ANOTHER DUCT DETECTOR WITHIN 5 FEET). D. PROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FOR INTERLOCKING DAMPER W/ CORRESPONDING HVAC UNIT(S) PER CODE REQUIREMENTS.

B. TERMINATE W/ BOX-COVER FUSIBLE DISCONNECT SWITCH AT EACH

5. PROVIDE BOX-COVER FUSIBLE DISCONNECT SWITCH (ON BUILDING INTERIOR IN ACCESSIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) MECHANICAL AND/OR PLUMBING EQUIPMENT MOTOR LOAD WHERE MORE THAN ONE UNIT IS CONNECTED TO A COMMON BRANCH CIRCUIT. TYPICAL EQUIPMENT TYPES INCLUDE BUT ARE NOT LIMITED TO CABINET HEATERS, DAMPERS, EXHAUST FANS, FAN COIL UNITS, PUMPS, UNIT HEATERS, VAV BOXES, ETC. 6. DESIGNATED CABLING PATHWAYS (CONDUITS, CABLE TRAYS, PENETRATION SLEEVES, ETC.) SHALL BE RESERVED FOR DIV. 27 COMMUNICATIONS CABLING AND DIV. 28 SAFETY/SECURITY CABLING ONLY. OTHER CABLING TYPES, SUCH AS DIV. 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHITECTURAL EQUIPMENT CABLING SHALL BE SUPPORTED AND SLEEVED BY OTHER INDEPENDENT

7. CONSOLIDATE ALL POWER SUPPLIES REQUIRED FOR ELECTRONIC DOOR HARDWARE (REF. SECTION 08 71 00) TO CENTRAL LOCATION(S) ADJACENT TO DESIGNATED ACCESS CONTROL EQUIPMENT LOCATION(S). CONNECT ALL POWER SUPPLIES TO DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) AS DESIGNATED FOR CONTINUED OPERATION UNDER LOSS OF

8. COORDINATE INSTALLATION OF ALL OWNER PROVIDED, OWNER INSTALLED CEILING AND WALL MOUNTED SPEAKERS, WAPS, CLOCKS, A/V, AND OTHER

P01 CONNECT TO EXISTING NEARBY CIRCUIT FROM DEMO.

EXTEND EXISTING CIRCUIT TO NEW LOCATION.

ELECTRICAL KEYNOTES

P03 CONNECT TO EXISTING NEARBY CIRCUIT FROM DEMO. INSTALL FUSIBLE DISCONNECT SWITCH MAINTAINED FROM DEMO.

P04 (TYP.) SPEAKERS, WIRELESS ACCESS POINTS, PROJECTORS, AND MOUNTIN HARDWARE TO BE PROVIDED AND INSTALLED BY OWNER. LOCATIONS AND AMOUNTS ARE APPROXIMATE, COORDINATE FINAL LOCATIONS AND AMOUN WITH OWNER PRIOR TO ROUGH-IN.

P05 (TYP.) CLOCKS TO BE PROVIDED AND INSTALLED BY OWNER. REUSE EXISTI

CONDUIT AND BOXES UNLESS NOTED OTHERWISE.

P07 INSTALL DUAL CHANNEL SURFACE RACEWAY MAINTAINED FROM DEMO.

P08 COORDINATE FINAL LOCATION OF PROJECTOR MOUNT WITH OWNER PRIOF

P12 CONNECT TO EXISTING NEARBY CIRCUIT FROM DEMO. PROVIDE AND INSTALINEW 35A FUSIBLE DISCONNECT SWITCH AT UNIT.

1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.01.

SPECIFICATION SECTION 26 27 26.

PATHWAYS, HANGERS, AND SUPPORTS.

COMMUNICATIONS DEVICES WITH OWNER.

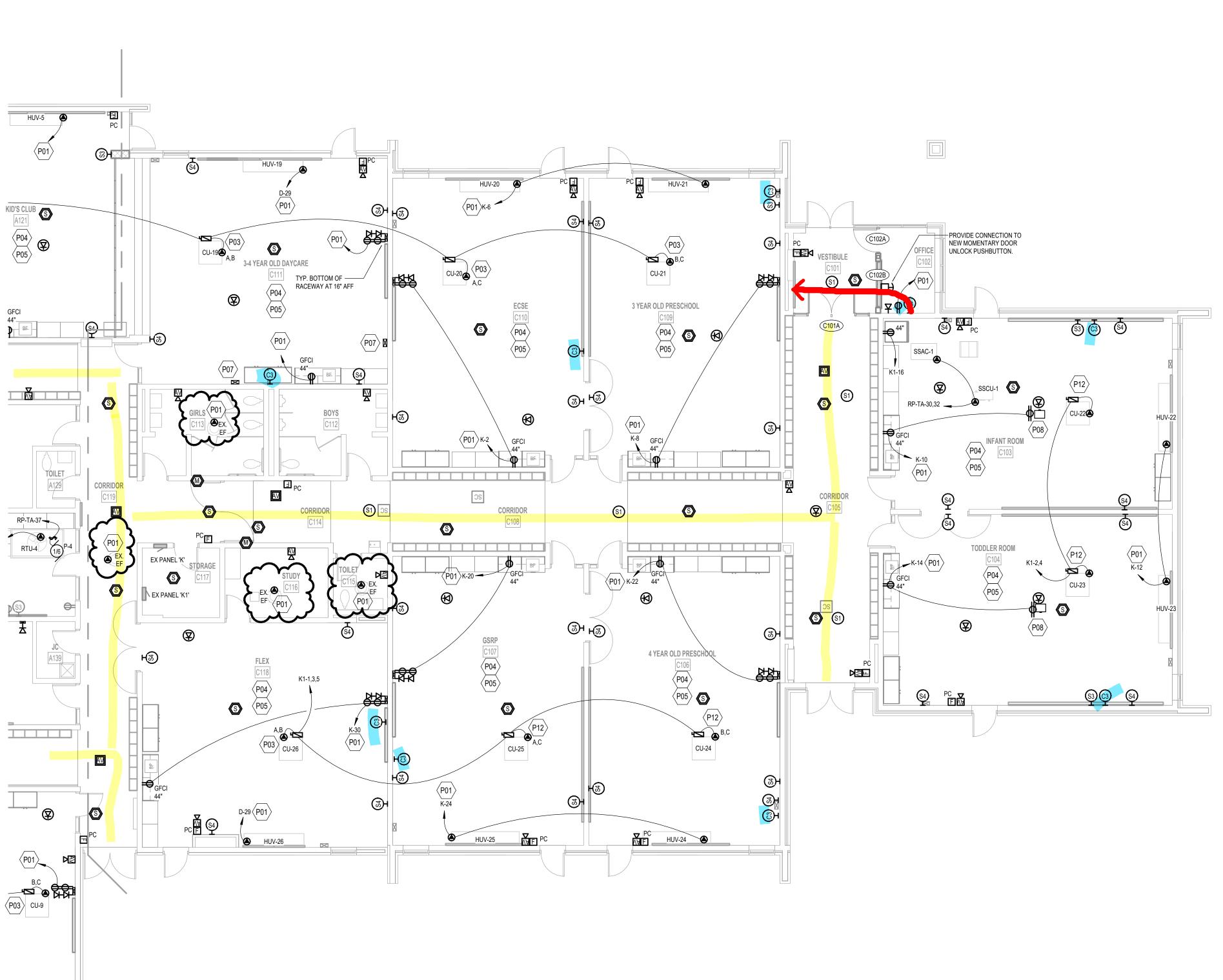
FIRE/SMOKE DAMPERS.

UNIT 'C' FIRST FLOOR POWER & COMMUNICATIONS PLAN

E2.1C

Yellow indicates areas we would like coverage Red indicates a move from the original wiring diagram.

Blue indicates clock locations, this can be adjusted if necessary.



UNIT 'C' FIRST FLOOR POWER & COMMUNICATIONS PLAN

