ADDENDUM 2

COLONIAL HEIGHTS PUBLIC SCHOOLS COLONIAL HEIGHTS, VIRGINIA



INVITATION FOR BID: # 2022-8000-1

PROJECT: Switchboard Replacement

May 20, 2022

COLONIAL HEIGHTS HIGH SCHOOL COLONIAL HEIGHTS, VIRGINIA ARCHITECT'S PROJECT NO: 611565.1

<u>GENERAL</u>:

- Planholders are requested to insert this Addendum in the front of their Project Manual. Inform all
 concerned that the Bidding Documents are modified by this Addendum.
- The following modifications and clarifications are hereby made a part of the Bidding Documents and supersede or otherwise modify the provisions of the published *Project Manual* and *Drawings*, dated March 22, 2022, and Addendum 01, dated May 12, 2022.
- 7 Refer to the Drawings, Specification Sections, or other Documents, if any, attached to this Addendum,
- 8 which are hereby made a part of this Addendum.

9 MODIFICATIONS TO THE PROJECT MANUAL AND DRAWINGS:

DELETE the previously issued Documents indicated below in their entirety and SUBSTITUTE the revised Documents in their entirety, noted as Addendum 02, dated May 20, 2022

12	DRAWING E0-1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES
13	DRAWING E1-1	FIRST FLOOR PLAN – ELECTRICAL DEMOLITION
14	DRAWING E1-2	FIRST FLOOR PLAN – OVERALL
15	DRAWING E3-1	ENLARGED FLOOR PLANS
16	DRAWING E5-1	POWER ONE-LINE DIAGRAM
17	ADD new Documents in t	heir entirety, noted as Addendum 02, dated May 20, 2022.
18	DRAWING E4-2	ELECTRICAL DETAILS
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23		END OF ADDENDUM NO 02
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KITCHEN

STOREROOMS

WHITEBOARDS

10-30

DINING AUDITORIUM

TRANSFER SWITCH

POWER LEGEND FIRE ALARM LEGEND SYMBOL DESCRIPTION SYMBOL DESCRIPTION ∇ APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". EQUIPMENT SERVED. _____X SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. XX NUMBER INDICATES STROBE CANDELA RATING. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6"AFF. FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT. \Box_{XX} REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT. $\langle A \rangle$ GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. PROVIDE NEMA 3R "WHILE IN USE" FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED ×× EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT. GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. x INDICATES STROBE CANDELA RATING. DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER XX INDICATES STROBE CANDELA RATING. DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT. NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED * EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT. POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS. FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 OUTPUT WHEN DEVICE GUARD IS PRESENT. DRAWINGS FOR LOCATIONS AND QUANTITY. FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10"AFF. PUSHBUTTON CONTROLLER. PUSHBUTTON. FK FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10"AFF. CORD REEL OUTLET, CEILING MOUNT. FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY [NON-] METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6"AFF, UNO. OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR. JUNCTION BOX, CONCEALED ABOVE CEILING, UNO. S SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUAR JUNCTION BOX, UNDER FLOOR MOUNT. (H) HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD CB ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED. (TS) FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO. (FS) FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH SYMBOL DESCRIPTION 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10"AFF, UNO. POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/HANDLE AT +4'-6"AFF, UNO. FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH (R) FIRE ALARM REMOTE INDICATOR, CEILING MOUNT. AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT +4'-6"AFF, UNO. (M) FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH. WITH OVERLOAD ELEMENTS AND QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS. **FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE** WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT + 4'-6"AFF. UNO. FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. © PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS. E) EQUIPMENT POWER CONNECTION.) MOTOR CONNECTION. (B) FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF. — M CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION. FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND EL POWER FOR ELECTRIC DOOR LOCK CONNECTION. LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION. POWER FOR ELECTRIC DOOR STRIKE CONNECTION. M FIRE ALARM DOOR HOLDER/CLOSER HARDWARE UNDER DIVISION 08, MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28. SRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE STRAIGHT LINEWORK FOR CIRCUITRY INDICATES ON EMERGENCY POWER CIRCUIT. INDICATED FOR WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM. CLARITY ONLY, ACTUAL HOMERUN DESIGNATION OVERRIDES THIS SYMBOLOGY. BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED. PANELBOARD. ONE LINE DIAGRAM LEGEND T TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE. SYMBOL DESCRIPTION (R) RELAY, N/O OR N/C AS INDICATED. → RELAY, NORMALLY OPEN. CIRCUIT BREAKER RELAY, NORMALLY CLOSED. (XXX) FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1. FUSED SWITCH TRANSFORMER SECURITY LEGEND YMBOL DESCRIPTION XXX FEEDER DESIGNATION DIRECTIONAL SECURITY MOTION DETECTOR, WALL MOUNT 6" BFC. CURRENT TRANSFORMER OMNI-DIRECTIONAL SECURITY MOTION DETECTOR. ♣ PT POTENTIAL TRANSFORMER CCTV MOUNTING LOCATION, CEILING MOUNT. CCTV MOUNTING LOCATION, WALL MOUNT. AVERAGE MAINTAINED DPS DOOR POSITION SWITCH. **ILLUMINATION LEVELS** C STATUS CONTACT. CR TASK FOOTCANDLES CARD READER LOCATION, MOUNT AT 3'-10" AFF. СК CARD READER WITH KEYPAD LOCATION, MOUNT AT 3'-10" AFF. CLASSROOMS MEDIA CENTER OFFICES KP SECURITY KEYPAD LOCATION, MOUNT AT 3'-10" AFF. BUSINESS STUDIO REMOTE KEYPAD FOR SECURITY SYSTEM, MOUNT AT 3'-10" AFF. SCIENCE LAB ELECTRICAL ROOMS DS ELECTRIC DOOR STRIKE. MECHANICAL ROOMS COMPUTER LABS EL ELECTRIC DOOR LOCK. GYM LOCKER ROOMS PL PNEUMATIC DOOR LOCK. LOBBIES/CORRIDORS TOILETS

TALK THROUGH COMMUNICATOR. Ш DURESS ALARM PUSHBUTTON LOCATION

WORK

COMMUNICATIONS LEGEND

SYMBOL DESCRIPTION

TELECOMMUNICATIONS JUNCTION BOX, PRIVIDE 1.25" CONDUIT BUSHING TO ABOVE CEILING, MOUNT AT +5'-6"AFF.

TELECOMMUNICATIONS JUNCTION, PRIVIDE 1.25" CONDUIT BUSHING TO ABOVE CEILING, MOUNT AT +1'-6"AFF.

INTERCOM CALL SWITCH LOCATION , MOUNT AT +4'-6"AFF.

MICROPHONE OUTLET, WALL MOUNT AT +1'-6"AFF, FLUSH FLOOR MOUNT.

SOUND SYSTEM CONSUMER DEVICE INPUT OUTLET AT 1'-6"AFF.

INTERCOM SOUND SYSTEM SPEAKER LOCATION, RECESS WALL MOUNT AT +7'-6"AFF.

INTERCOM SOUND SYSTEM SPEAKER LOCATION, RECESS CEILING MOUNT.

SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6"AFF.

SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT.

POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.

(WA) WIRELESS ACCESS POINT JUNCTION BOX

TELECOMMUNICATIONS EQUIPMENT RACK.

2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.

TGB TELECOMMUNICATIONS GROUND BUS BAR. MOUNT AT +1'-6"AFF.

TMGB TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6"AFF.

CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

LIGHTING LEGEND

LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10"AFF. SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:

INDICATES 3-WAY LIGHT SWITCH INDICATES 4-WAY LIGHT SWITCH

FOR MULTI-LEVEL SWITCHING

INDICATES DIMMER SWITCH INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON

INDICATES KEY OPERATED LIGHT SWITCH INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED

LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION

OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.

• LIGHT FIXTURE, CEILING MOUNT.

• LIGHT FIXTURE WITH BATTERY PACK, CEILING MOUNT.

● ■ LIGHTING FIXTURE ON WITH BATTERY PACK.

WALL WASHER LIGHTING FIXTURE.

 \bigcirc LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.

EXIT SIGN WITH BATTERY PACK, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.

EXIT SIGN WITH BATTERY PACK, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN. TRACK LIGHTS.

DEMOLITION LEGEND

SYMBOL DESCRIPTION

REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.

DEVICES ARE EXISTING TO REMAIN.

COMMUNICATIONS, AND CIRCUITRY.

WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM,

GENERAL DEMOLITION NOTES

A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE

REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION. ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.

MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK. D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT

REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.

EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.

DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.

3. WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.

DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.
- C. FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. D. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS
- OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION. E. LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS
- OTHERWISE INDICATED. F. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.
- G. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.
- H. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER
- ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, UNO. THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES. I. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS,
- FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER. K. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.
- ... WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.
- M. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

ABBREVIATIONS

1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
А	AMPS
AFF	ABOVE FINISHED FLOOR
AL ATS	ALUMINUM AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C CATV	CONDUIT COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CKT CLG	CIRCUIT
CLG	CEILING CLEAR
CO.	COMPANY
COMB	COMBINATION
COMM CU	COMMUNICATIONS
DIA	COPPER DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING ELECTRIC BASEBOARD HEATER
EBH EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	
EPO EQ	EMERGENCY POWER OFF EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX EXT	EXISTING
FA	EXTERIOR FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP FFSCP	FIRE ALARM EXTENDER PANEL FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND G	FUSE PER NAMEPLATE DATA GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR
	INDICATED BREAKER)
GFCI GFP	GROUND FAULT CIRCUIT INTERRUPT GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED
GFF	BREAKER)
HKP	HOUSEKEEPING PAD
HP HPS	HORSEPOWER HIGH PRESSURE SODIUM
Hz	HIGH PRESSURE SODIOM HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX KHFSS	JUNCTION BOX KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHZ	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	
L LC	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER) ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS MAXIMUM
MAX MCA	
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH MHz	METAL HALIDE MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS MOCP	MASS NOTIFICATION SYSTEM MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
Ν	NEUTRAL
N/C	NORMALLY CLOSED
N/O NO.	NORMALLY OPEN NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
Р	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD PROTECTIVE DEVICE
PD RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	
SPD SPEC	SURGE PROTECTIVE DEVICE
SPEC. ST	SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	
TBB TC	TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET
	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP UNO	TYPICAL UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE

WG

WP XFER

XFMR

WATTS

WITH

WIRE GUARD

TRANSFER

TRANSFORMER

WEATHERPROOF

OS .

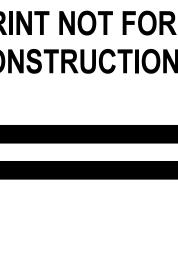
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GENERAL NOTES

LEGENDS ABBREVIATIONS AND

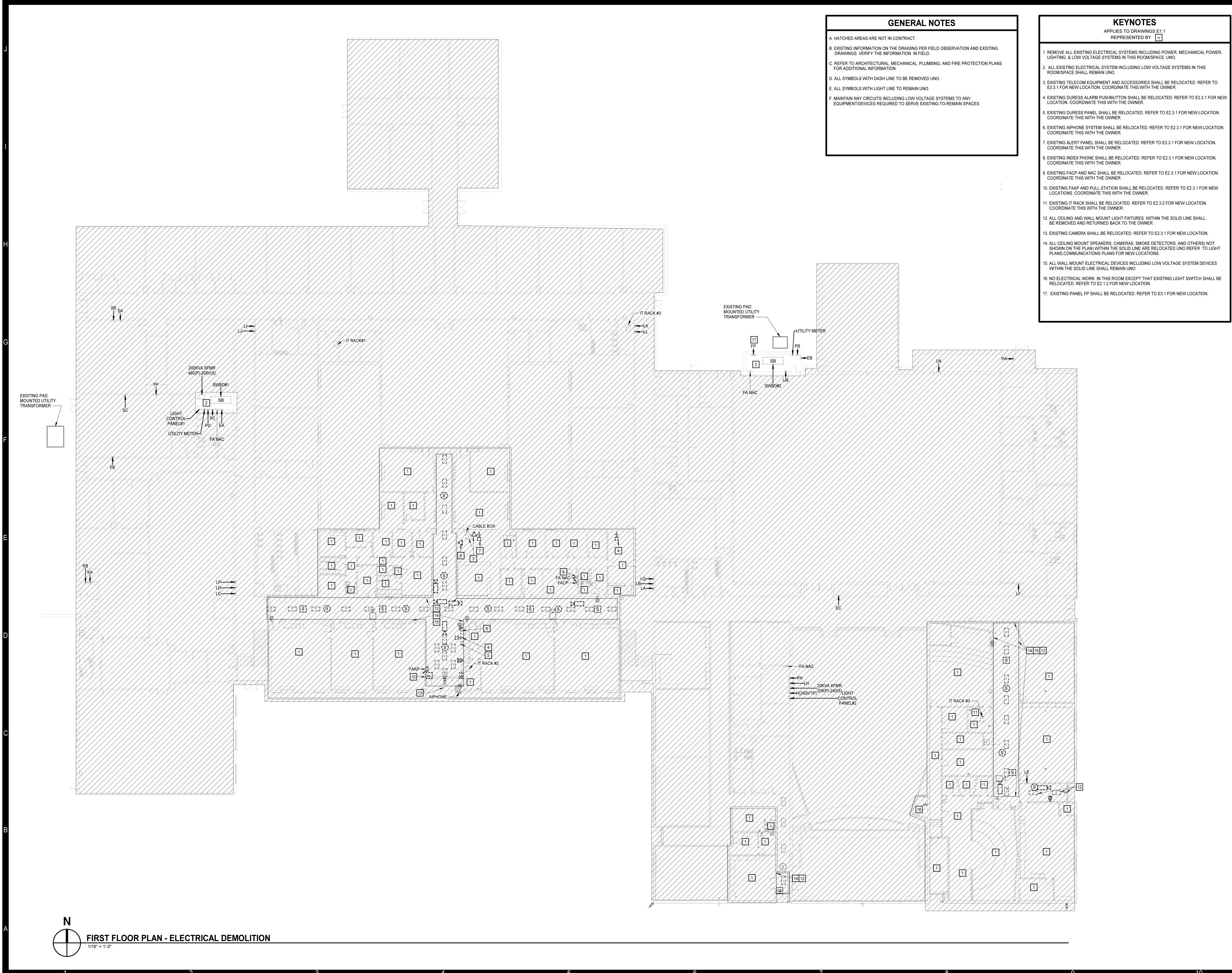
- () **K** PROJECT NO: 611565 APRIL 25, 2022 REVISIONS DATE DESCRIPTION

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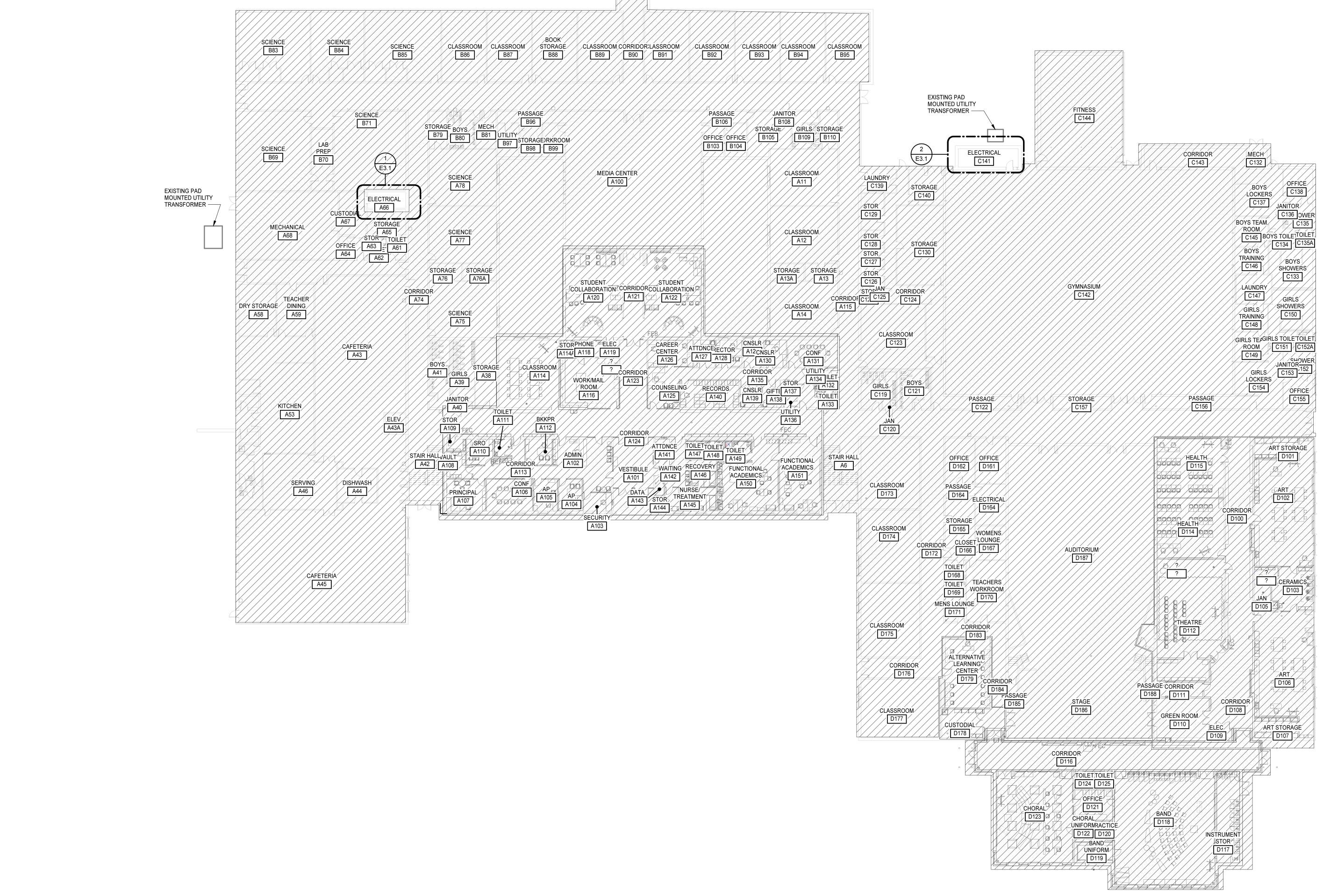




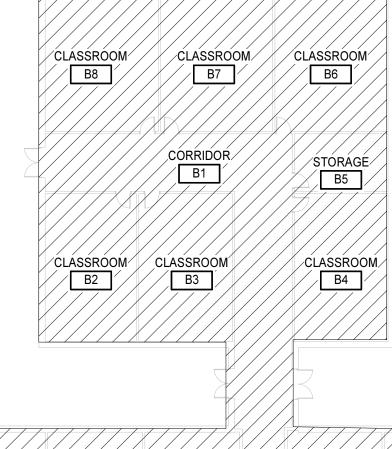
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GENERAL NOTES

A. HATCHED AREAS ARE NOT IN CONTRACT.

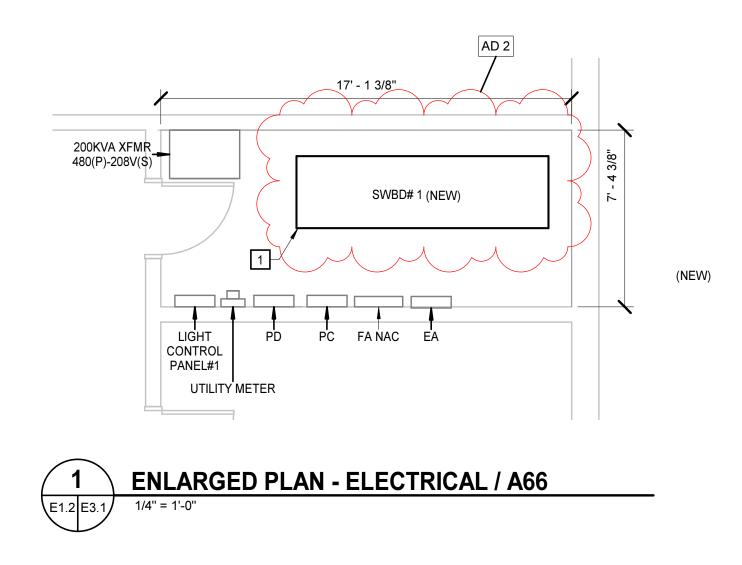


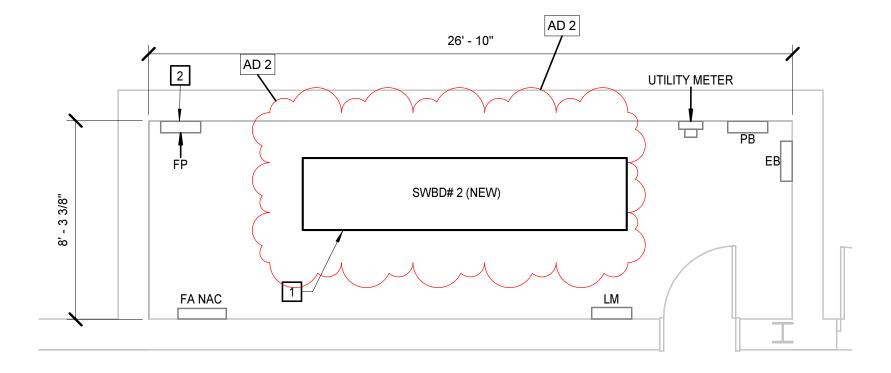
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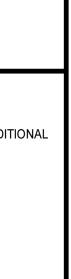






KEYNOTES APPLIES TO DRAWINGS E3.1 REPRESENTED BY

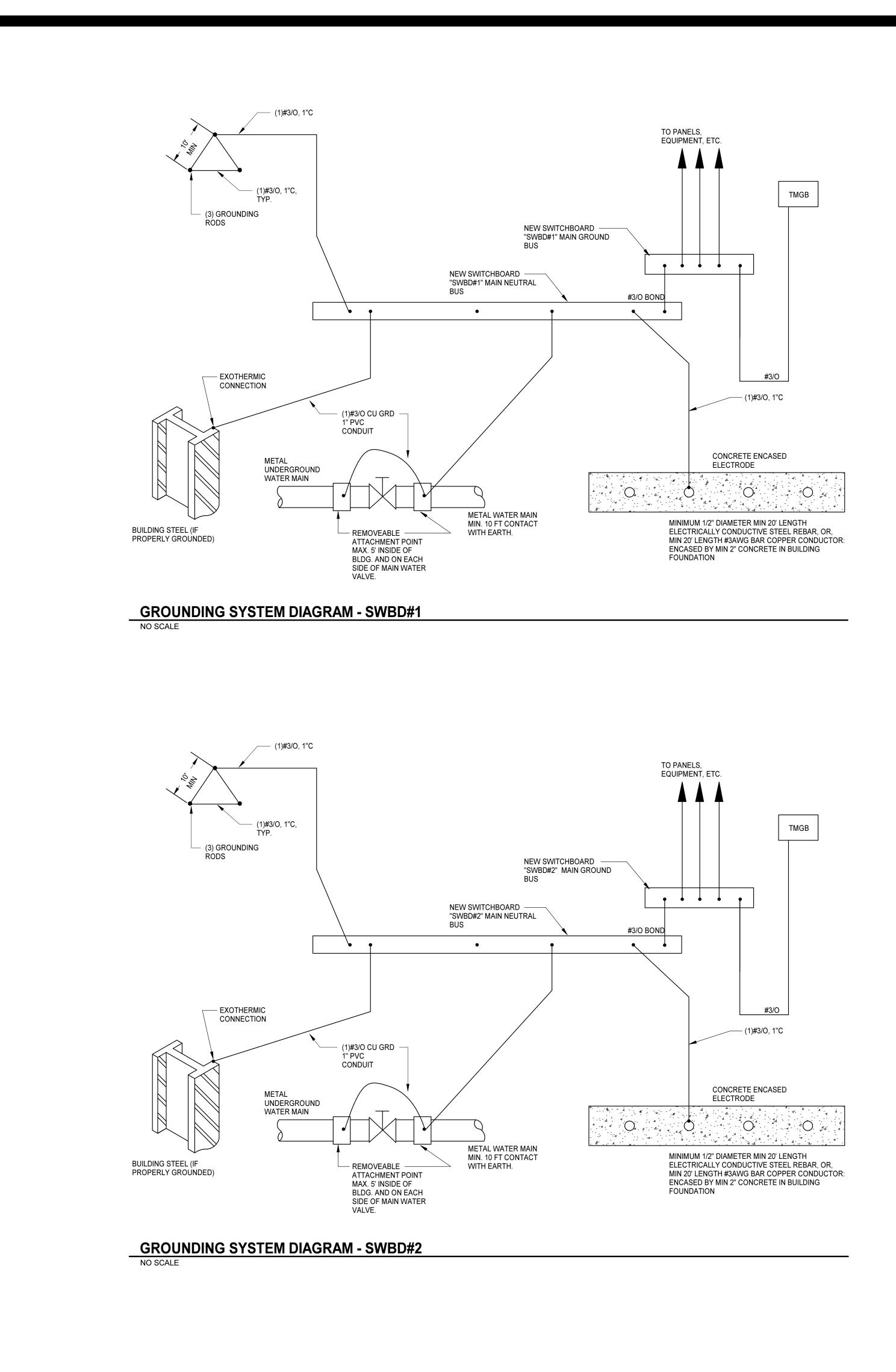
1. REFER TO POWER ONE-LINE DIAGRAMS ON E5.1 AND DEMOLITION PLAN E1.1 FOR ADDITIONAL IN FORMATION. 2. NEW LOCATION OF EXISTING PANEL FP. REFER TO KEYNOTE 17 ON E1.1 FOR A DDITIONAL INFORMATION..

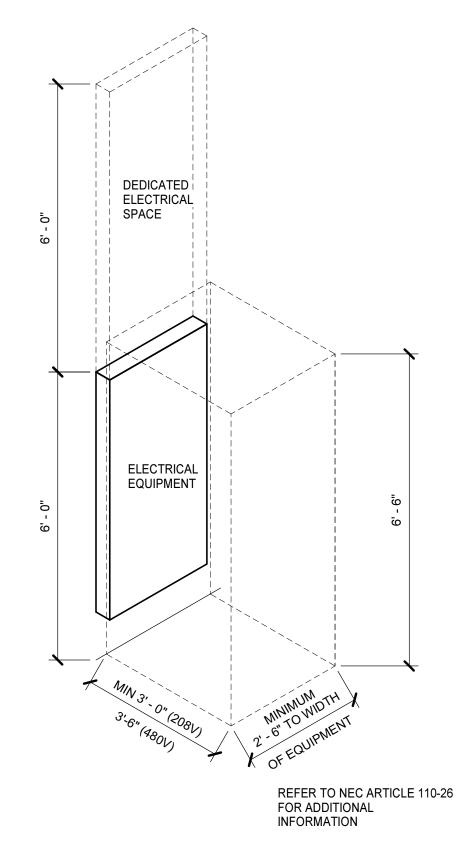












EQUIPMENT CLEARANCES NO SCALE

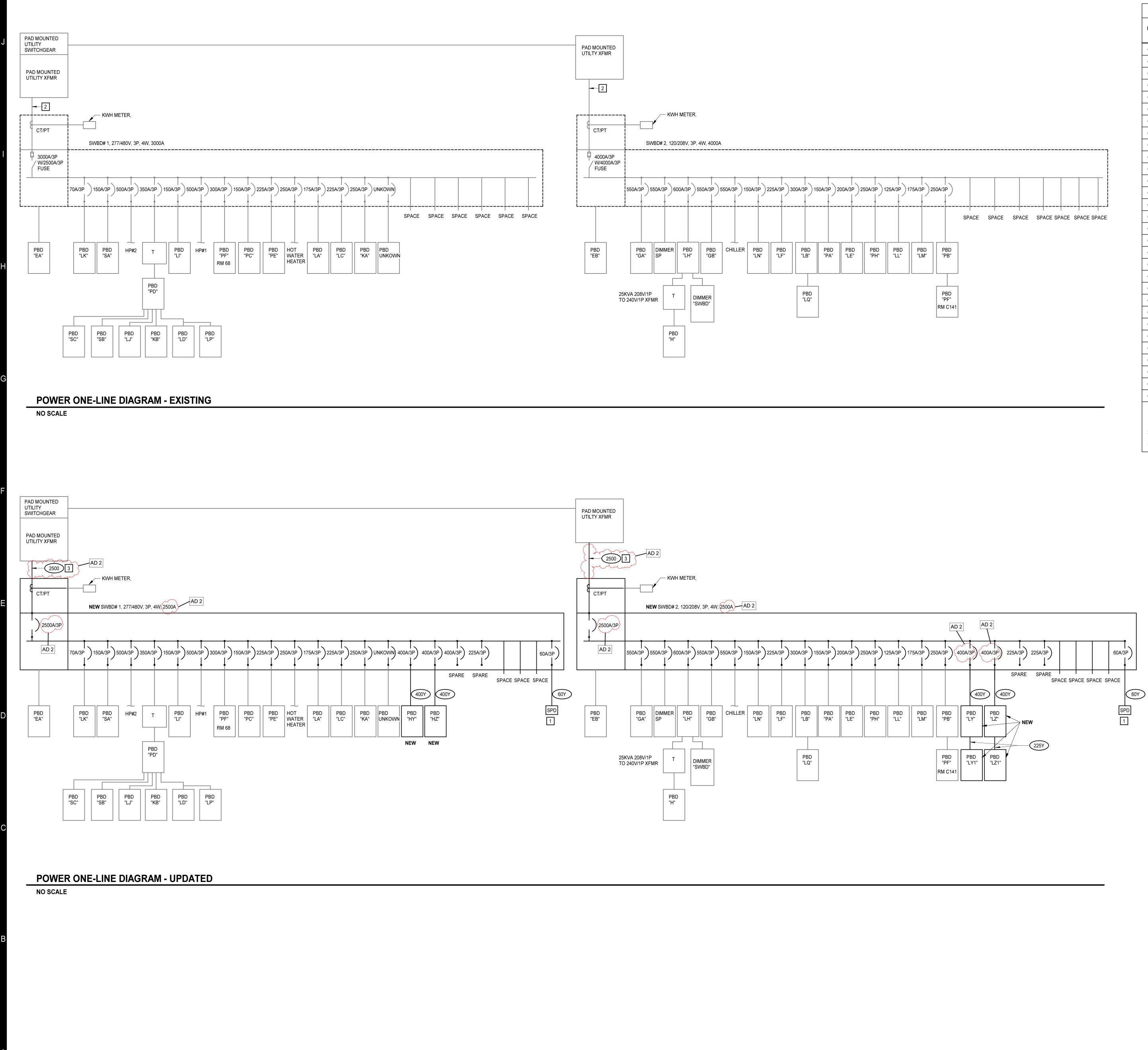


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PBD "LM"	PBD "PB" PBD "PF" RM C141	SPACE	SPACE	SPACE	SPACE SPACE	SPACE SPACE

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZ
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	(40Y)	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	(45Y)	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	(70Y)	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	(100Y)	1	4#1,#8 G	1 1/4"
(110)	1	3#2,#6 G	1 1/2"	(110Y)	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	(125Y)	1	4#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"	(150Y)	1	4#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"	(175Y)	1	4#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"	(200Y)	1	4#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"	(225Y)	1	4#4/0,#4 G	2 1/2"
250	1	3-250kCM,#4 G	2 1/2"	(250Y)	1	4-250kCM,#4 G	2 1/2"
300	1	3-350kCM,#4 G	2 1/2"	300Y	1	4-350kCM,#4 G	2 1/2"
350	2	3#2/0,#3 G	2"	(350Y)	2	4#2/0,#3 G	2"
400	2	3#3/0,#3 G	2"	(400Y)	2	4#3/0,#3 G	2"
450	2	3#4/0,#2 G	2 1/2"	(450Y)	2	4#4/0,#2 G	2 1/2"
500	2	3-250kCM,#2 G	2 1/2"	500Y	2	4-250kCM,#2 G	2 1/2"
600	2	3-350kCM,#1 G	3"	600Y	2	4-350kCM,#1 G	3"
700	2	3-500kCM,#1/0 G	4"	700Y	2	4-500kCM,#1/0 G	4"
800	3	3-350kCM,#1/0 G	3"	800Y	3	4-350kCM,#1/0 G	3"
1000	3	3-500kCM,#2/0 G	4"	1000	3	4-500kCM,#2/0 G	4"
1200	4	3-350kCM,#3/0 G	3"	12009	4	4-350kCM,#3/0 G	3"
1600	5	3-500kCM,#4/0 G	4"	1600Y	5	4-500kCM,#4/0 G	4"
2000	6	3-500kCM,#250 G	4"	2000	6	4-500kCM,#250 G	4"
(2500)	7	3-500kCM,#350 G	4"	25007	7	4-500kCM,#350 G	4"

1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.

2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.

3. SIZES ADJUSTED PER NEC 110.14.

GENERAL NOTES

- A. EXISTING SWBD#1 & #2 SHALL BE REPLACED WITH NEW SWBD#1 & #2. DISCONNECT UTILITY FEEDERS, UTILITY METERS, AND ALL EXISTING PANEL/EQUIPMENT FEEDERS FROM THE EXISTING SWBD#1 & #2 AND RECONNECT THEM TO THE NEW SWBD#1 & #2.
- B. INFORMATION INDICATED ON EXISTING POWER ONE-LINE DIAGRAM ARE BASED ON FIELD OBSERVATION AND POWER ONE-LINE DIAGRAM & PANEL SCHEDULES SHOWN ON EXISTING DRAWINGS.
- C. VERIFY INFORMATION INDICATED ON EXISTING POWER ONE-LINE DIAGRAM IN FIELD.

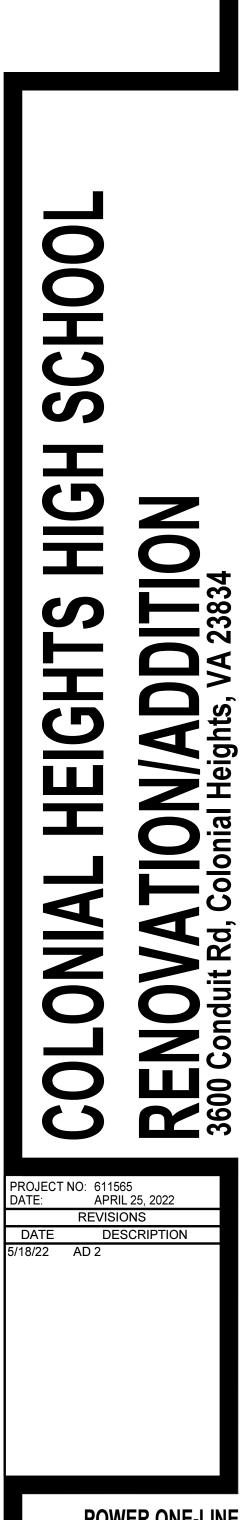
KEYNOTES APPLIES TO DRAWINGS E5.1 REPRESENTED BY r

- 1 .COORDINATE WITH SPD MANUFACTURER FOR SPD BREAKER SIZE.
- 2. REMOVE EXISTING BUSES FROM EXISTING BUS DUCT AND THE EXISTING BUS DUCT SHALL BE REUSED FOR NEW FEEDER AS INDICATED ON POWER ONE-LINE DIAGRAM - UPDATED.
- 3. RUN CONDUITS AS INDICATED IN EXISTING BUS DUCT FROM EXISTING UTILITY TRANSFORMER TO NEW SWITCHBOARD.



PRINT NOT FOR

CONSTRUCTION



POWER ONE-LINE DIAGRAM

