ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	RECESSED LED LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT LED LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	WALL MOUNT LED LIGHT FIXTURE
	WALL MOUNT COMPACT LED LIGHT FIXTURE
	SURFACE OR RECESSED LED LIGHT FIXTURE
	SURFACE OR RECESSED LED LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT STRIP LIGHT (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	FIXTURE WITH EMERGENCY ENERGY SOURCE. PROVIDE UNSWITCHED HOT LEG. SEE PLANS FOR MORE INFORMATION.
	EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	WALL MOUNTED EXIT LIGHT FIXTURE (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	POLE LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	RECEPTACLES
	TAMPER RESISTANT DUPLEX RECEPTACLE (E INDICATES EXISTING TO BE REPLACED)
G	TAMPER RESISTANT DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
S	TAMPER RESISTANT DUPLEX RECEPTACLE (S INDICATES CONTROLLED RECEPTACLE, U INDICATES USB CHARGING)
C	TAMPER RESISTANT DUPLEX RECEPTACLE (C INDICATES ABOVE COUNTER)
	TAMPER RESISTANT FOURPLEX RECEPTACLE
	NETWORK INFRASTRUCTURE
C #	TELECOMMUNICATIONS OUTLET - WALL MOUNT WITH (2) ACTIVE DATA PORTS AND (2) CAT6 CABLES (4/S BOX WITH SINGLE-GANG MUDRING AND COVER PLATE) WITH ONE (1) 1" CONDUIT TO ACCESSIBLE CEILING SPACE, MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. ("C" INDICATES ABOVE COUNTER, # INDICATES QUANTITY OF DATA PORTS AND CABLES, IF DIFFERENT THAN 2, SOLID FILL INDICATES EXISTING TELEPHONE OUTLET FOR REFERENCE ONLY). REVIEW THE SITE PLANS, FLOOR PLANS, DETAIL SHEETS AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
	WIRELESS ACCESS POINT (WAP) TELECOMMUNICATIONS OUTLET - CEILING MOUNT. PROVIDE (1) CAT6A CABLES TO THE JUNCTION BOX ABOVE ACCESSIBLE CEILING. SEE THE TELECOMMUNICATIONS/SYSTEMS DETAILS FOR ADDITIONAL REQUIREMENTS.
	IDF 127D WALL-MOUNTED EQUIPMENT. PROVIDE (1) WALL-MOUNTED FIBER LIU, (2) WALL BRACKETS CHATSWORTH # 11754-X19 (OR APPROVED EQUAL) AND NEW PATCH PANELS AS REQUIRED . COORDINATE WITH OWNER FOR INSTALLATION LOCATIONS PRIOR TO ROUGH IN.
	INTERCOM
	ANALOG 12" CLOCK - WALL MOUNT AT +7'-10" UNLESS NOTED OTHERWISE. PROVIDE SIMPLEX # 2975-#### SEMI-FLUSH-MOUNT BACKBOX WITH (1) 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE CLOCK TO MATCH EXISTING SYSTEM, SIMPLEX MODEL # 6310-9231. WIRE TO EXISTING CLOCK CIRCUIT.
S	INTERCOM LOUDSPEAKER ASSEMBLY - WALL MOUNT AT +7'-10" AFF UNLESS NOTED OTHERWISE. PROVIDE 4S BACKBOX WITH (1) 3/4" C. TO ACCESSIBLE CEILING SPACE. PROVIDE SPEAKER TO MATCH EXISTING. "W" INDICATES WEATHERPROOF.
S	INTERCOM LOUDSPEAKER ASSEMBLY - CEILING MOUNT. PROVIDE SPEAKER TO MATCH EXISTING.
	EQUIPMENT AND WIRING
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
	LADDER STYLE CABLE TRAY. SIZE AS SHOWN ON SHEET E4.01.
	AUDIO VISUAL SYSTEMS
AV1	CLASSROOM A/V SYSTEM OFCI SHORT-THROW PROJECTOR MOUNT. MOUNT AT +8'-3" AFF TO CENTER. COORDINATE WITH ARCHITECT FOR EXACT LOCATION PRIOR TO INSTALLATION. PROVIDE BACKING AS REQUIRED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

SYMBOL	DESCRIPTION
	SWITCHES
$	SINGLE POLE SWITCH
$LV	LOW VOLTAGE SWITCH
$OS/VS	COMBINATION SWITCH / OCCUPANCY/ VACANCY SENSOR
$P	SINGLE POLE SWITCH WITH PILOT LIGHT (LIT WHEN OFF).
	PUSH BUTTON EMERGENCY SHUTOFF SWITCH
PC	PHOTOCELL CONTROL
OS	WALL MOUNTED OCCUPANCY SENSOR (LIGHTING CONTROL)
OS	CEILING MOUNTED OCCUPANCY SENSOR (LIGHTING CONTROL)
VS	CEILING MOUNTED VACANCY SENSOR (LIGHTING CONTROL)
	EQUIPMENT AND WIRING
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
	MOTOR CONNECTION
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION DISCONNECT / MAGNETIC MOTOR STARTER
	277/480 VOLT PANELBOARD
	120/208 VOLT PANELBOARD (OR AT RATED VOLTAGE AS NOTED)
	EXISTING PANELBOARD TO BE RETAINED
	MAIN SWITCHBOARD
T	TRANSFORMER
	ENCLOSED CIRCUIT BREAKER, AMPERES AS INDICATED
M	METER
HH	HANDHOLE
	ACCESS CONTROL SYSTEM
CR	CARD READER - ROUGH-IN ONLY. PROVIDE SINGLE-GANG BACKBOX MOUNTED FLUSH TO WALL AND BLANK WEATHERPROOF COVER. MOUNT AT STANDARD ADA HEIGHT. "M" INDICATES MULLION MOUNTED - PROVIDE CONDUIT PATHWAY TO STOREFRONT, NO BACKBOX REQUIRED. SEE DETAILS 8 AND 10 ON SHEET E7.02 FOR ADDITIONAL INFORMATION.
D	DOOR POSITION SWITCH - ROUGH-IN ONLY. SEE DETAILS 8 AND 10 ON SHEET E7.02 FOR ADDITIONAL INFORMATION.
REX	REQUEST TO EXIT MOTION SENSOR - ROUGH-IN ONLY. SEE DETAILS 8 AND 10 ON SHEET E7.02 FOR ADDITIONAL INFORMATION.
	CCTV SYSTEM
C	INTERIOR CAMERA ROUGH-IN LOCATION. PROVIDE RECESSED SINGLE-GANG BACKBOX WHERE SHOWN ON PLANS WITH BLANK COVER PLATE AND (1) 1" C. TO NEAREST ACCESSIBLE CEILING. CABLING AND CAMERA BY OWNER.
C	EXTERIOR CAMERA ROUGH-IN LOCATION. PROVIDE RECESSED SINGLE-GANG BACKBOX WHERE SHOWN ON PLANS WITH WEATHERPROOF BLANK COVER PLATE AND (1) 1" C. TO NEAREST ACCESSIBLE CEILING. CABLING AND CAMERA BY OWNER.
	MISCELLANEOUS
101	DOOR NUMBER
##	CONSTRUCTION NOTES
##	DEMOLITION NOTES
##	FLAG NOTE
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
WG	WG INDICATES WIRE GUARD
	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REMOVED
A E2 E3	DETAIL CALL OUT - A INDICATES DETAIL IDENTIFICATION, E2 INDICATES SHEET TAKEN FROM, E3 INDICATES SHEET DRAWN ON
AH1 1	MECHANICAL EQUIPMENT CONNECTION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
C	MOUNT ABOVE COUNTER
C.	CONDUIT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CO	CONDUIT ONLY
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
EC	ELECTRICAL CONTRACTOR
FOC	FIBER OPTIC CABLE
G	GROUND FAULT
GC	GENERAL CONTRACTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME (TR/TE)

ABBREVIATIONS CONTINUED

LIU	LIGHT INTERFACE UNIT (INCLUDES FIBER SPLICE TRAY AND PATCH PANEL)
MDF	MAIN DISTRIBUTION FRAME (ER/EF)
MM	MULTI MODE (FOC)
OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED
REQ'D	REQUIRED
SM	SINGLE MODE (FOC)
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
W	WEATHERPROOF (PROVIDE WEATHERPROOF COVER/DEVICE WHERE SHOWN ON PLANS)
WAP	WIRELESS ACCESS POINT

GENERAL NOTES FOR ALL SHEETS

1. SEE EACH SHEET FOR ADDITIONAL GENERAL NOTES THAT ARE SPECIFIC TO AN AREA OR SHEET.
2. THE CONTRACTOR/INSTALLING VENDOR IS RESPONSIBLE TO VERIFY ALL CMU/CONCRETE WALLS, BRICK WALLS, CABLE ROUTING AND ALL WORK REQUIRED TO FACILITATE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
3. THE CONTRACTOR SHALL REFER TO STRUCTURAL DRAWINGS FOR BRACE FRAMED OR SHEAR WALLS. CONTRACTOR SHALL MOUNT DEVICES AND ROUTE CONDUIT SO AS NOT TO INTERFERE WITH THE STRUCTURAL INTEGRITY OF THE WALL.
4. ALL CONDUITS MUST BE A MINIMUM OF 6'-6" ABOVE ALL MECHANICAL EQUIPMENT AND MECHANICAL CLEARANCE SPACES. E.C. WILL BE RESPONSIBLE TO MOVE ANY CONDUITS WHICH DO NOT COMPLY.
5. CONDUITS ARE NOT ALLOWED TO BE ROUTED IN ANY CONCRETE SLAB. CONDUITS MAY BE ROUTED UNDER THE SLAB ONLY.
6. CONDUIT SHALL NOT BE SURFACE MOUNTED IN ANY FINISHED AREAS WITHOUT SPECIAL PERMISSION FROM THE ENGINEER. CONTRACTOR SHALL TAKE SPECIAL CARE AND COORDINATE WITH OTHER DISCIPLINES TO INSURE CONDUIT IS HIDDEN.
7. NO CONDUITS ARE ALLOWED TO BE ROUTED ON TOP OF THE ROOF.
8. REVIEW ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF AREAS WITH ACCESSIBLE CEILING TILES, GWB, AND OPEN CEILINGS. PROVIDE MANUFACTURER APPROVED BACK BOXES IN AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE. ROUTE CONDUIT ON TOP OF ROOF DECK UNDER INSULATION TO CONCEAL. UTILIZE RIGID GALVANIZED STEEL CONDUIT.
9. ALL OUTLETS, SWITCHES AND DEVICES MOUNTED BACK TO BACK IN A WALL, MUST BE SPACED A MINIMUM OF 24" APART OR FURNISHED WITH SOUND ATTENUATING MASTIC AROUND BOX TO MEET ACOUSTICAL REQUIREMENTS.ALL OUTLETS, SWITCHES AND DEVICES MOUNTED BACK TO BACK IN A WALL, MUST LOCATED IN SEPARATE STUD BAYS, OR FURNISHED WITH SOUND ATTENUATING MATERIAL AROUND THE BOX TO MEET ACOUSTICAL REQUIREMENTS.
10. PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING HOMERUNS SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITHIN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO THE AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULE. ALL CONDUITS SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120' FOR 120V AND 250' FOR 277V SHALL BE UPSIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHOW ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS.
11. FEED THROUGH GFCI RECEPTACLES SHALL NOT BE USED.
12. PROVIDE DEDICATED NEUTRALS FOR ALL COMPUTER RECEPTACLE CIRCUITS.
13. CIRCUIT BREAKER HANDLE TIES SERVING MULTI-WIRE BRANCH CIRCUITS IS NOT ALLOWED. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT.CIRCUITING SHALL BE PROVIDED AS REQUIRED TO MEET THE NEC. ALL SINGLE POLE CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS.
14. WHERE OPEN CABLING IS PERMITTED BY CODE, EACH LOW VOLTAGE SYSTEM SHALL HAVE THEIR CABLES SUSPENDED SEPARATE FROM OTHER LOW VOLTAGE SYSTEMS (I.E. FIRE ALARM CABLES IN ONE J-HOOK, INTERCOM IN ANOTHER J-HOOK, AND SO ON).
15. PROVIDE CONDUIT FOR ALL LOW VOLTAGE CABLING IN EXPOSED AND UNACCESSIBLE AREAS. PROVIDE CONDUIT SLEEVES THROUGH ALL WALLS AS REQUIRED TO ACCOMMODATE RECOMMENDED CABLE ROUTING BY COMMUNICATIONS CONTRACTOR.
16. ALL SPARE CONDUITS (FOR FUTURE USE) SHALL BE LABELED "SPARE/FUTURE CONDUIT" AT EACH END OF THE CONDUIT WITH 1/2" TALL LETTERS, USING A PERMANENT MARKER.
17. ALL TYPICAL DEVICES SHALL BE MOUNTED AT CONSISTENT LOCATIONS AND HEIGHTS THROUGHOUT THIS PROJECT, UNLESS NOTED OTHERWISE.
18. SEE ALL DETAIL SHEETS AND RISER DIAGRAMS FOR ADDITIONAL WORK. ALL DETAILS AND RISERS ARE APPLICABLE TO THIS PROJECT WHETHER REFERENCED OR NOT.
19. IN THE MDF, IDF, AND OTHER DESIGNATED LOCATIONS, COORDINATE THE EXACT LOCATIONS OF EQUIPMENT WITH THE ARCHITECT, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND ALL OTHER TRADES, PRIOR TO ROUGH IN.
20. GROUNDING SHALL CONFORM TO NEC 250.
21. TELECOMMUNICATIONS GROUNDING SHALL CONFORM TO TIA-607-B.
22. CAMERAS SHALL BE LOCATED AS SUCH TO AVOID RESTRICTING THE CAMERAS FIELD OF VIEW FROM EXIT SIGNS, LIGHTING, DOOR HEADERS, AND OTHER BUILDING FEATURES. COORDINATE WITH ALL TRADES PRIOR TO ROUGH-IN.
23. EACH LOW VOLTAGE LIGHTING CONTROL HOMERUN SHALL BE PROVIDED WITH THE REQUIRED NUMBER OF CONDUCTORS FOR EACH SWITCH LEG THAT IT SERVES.
24. REVIEW ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF AREAS WITH ACCESSIBLE CEILING SPACES, HARD LID CEILINGS, AND AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE. PROVIDE SURFACE-MOUNTED DEVICES AND THEIR RELATED SURFACE MOUNT BACK BOXES IN AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE. PAINT EACH BACKBOX TO MATCH THE ADJACENT SURFACE.
25. FIRE WALLS SHOWN ARE FOR REFERENCE ONLY, REFER TO FINAL ARCHITECTURAL DRAWINGS FOR RATED WALLS, AND PROVIDE FIRE RATED MECHANICAL PENETRATIONS (STI EZ-PATH OR EQUAL) FOR ALL CABLES TRANSITIONING THROUGH RATED WALLS. PROVIDE CORE DRILL FOR ALL PENETRATIONS THROUGH EXISTING WALLS WHETHER SPECIFICALLY SHOWN ON PLANS OR NOT. EC SHALL FIRE SEAL AROUND ALL CONDUITS PENETRATING THROUGH FLOORS, ROOF, AND FIRE RATED WALLS.
26. ALL TELECOMMUNICATIONS OUTLETS HORIZONTAL CABLING SHALL BE ROUTED TO THE CLOSEST TELECOMMUNICATIONS ROOM AS REQUIRED BY SECTION 272000.
27. REVIEW ALL EXTERIOR MOUNTED EQUIPMENT FOR AIR BARRIER PENETRATIONS. SEE ARCHITECTURAL DETAILS FOR REQUIREMENTS ON MAINTAINING THE BUILDING'S ENVELOPE.
28. SEE ALL DETAIL SHEETS AND RISER DIAGRAMS FOR ADDITIONAL WORK REQUIRED BY SECTION 272000.
29. COORDINATE WITH OWNER IN ADVANCE OF ANY EQUIPMENT OR SYSTEM SHUTDOWNS.
30. SEE THE SITE PLANS FOR ADDITIONAL WORK.
31. ALL LOW VOLTAGE CABLING SHALL BE RISER RATED.

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ONE INCH
AT FULL SIZE

MICHAEL L. COOPER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
8/15/2019

#	REVISIONS	DATE

Vancouver School District

FRANKLIN ELEMENTARY SCHOOL ADDITION

1698, 5206 NW Franklin St,
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 08/19/2019

Jurisdiction Stamp Area

BID SET

ELECTRICAL LEGEND

E0.01

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GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

1. SEE DRAWINGS FOR EMERGENCY LIGHTING FIXTURES. PROVIDE EMERGENCY BATTERY PACK WITH UNSWITCHED HOT LEG.

2. FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT, OCCUPANCY SENSORS AND TIME CLOCK CONTROLS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TESTING OF THE CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS TO MAKE SURE THEY ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED IN THE PRESENCE OF THE ENGINEER. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

LIGHTING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	MANUFACTURER/MODEL #	LUMENS	V	W	MOUNTING & REMARKS
AL1	LED PARKING LOT AREA FIXTURE	SELUX# AR2L-R3-S1-5G105-40-XX-BK-UNV-DM	8984	120/ 277	95	PROVIDE 24' ROUND ALUMINUM POLE (AT74-24-BL-BC10). SEE POLE BASE DETAIL ON SHEET E709.
AL2	LED PEDESTRIAN WALKWAY FIXTURE	SELUX# AR2L-R3-S1-5G530-40-XX-BK-UNV-DM	5347	120/ 277	49	PROVIDE 12' ROUND ALUMINUM POLE (AT74-12-BL-BC10). SEE POLE BASE DETAIL ON SHEET E709.
PL1/PL1E	LED LINEAR PENDANT	PINNACLE# EX6B-A-O-835-835-4-U-OL1-1-1P-W	1724	120/277	17	PENDANT MOUNT AT +8'-6" AFF UNLESS OTHERWISE NOTED. SEE NOTE 1.
PL2/PL2E	DURABLE LED LINEAR PENDANT	EATON-METALUX# 4SNLED-LD5-30SL-LN-UNV-EL14W-L835-CD1-U	3077	120/277	21	PENDANT MOUNT AT +8'-6" AFF UNLESS OTHERWISE NOTED. SEE NOTE 1.
RL1/RL1E	LED 6" DOWNLIGHT	EATON-PORTFOLIO# LD6B15D010 EMV14 EU6B10208035 6LBWWH1	1374	120/277	14	RECESS IN CEILING. SEE ARCHITECTURAL PLANS FOR CEILING TYPE. SEE NOTE 1.
RL2	LED 2X2 TROFFER	PINNACLE# LU22-A-835HO-G1-U-OL1-1-W	4406	120/277	42	RECESS IN CEILING. SEE ARCHITECTURAL PLANS FOR CEILING TYPE.
SL1	LED CORNER VANITY	XAL# CORNER-SUR-WH-OP-35K-C80-UNV-010V-0800LF-ST-48IN	3200	120/277	34	SURFACE MOUNT TIGHT TO WALL AND CEILING.
SL2/SL2E	LED SURFACE MOUNT LINEAR PENDANT	PINNACLE# EX6-A-N-835-4-U-OL1-1-1P-W	3200	120/277	34	SURFACE MOUNT TIGHT TO WALL AND CEILING. SEE NOTE 1.
WL1/WL1E	LED WALL PACK	MCGRAW-EDISON# IST-AF-350-LED-E1-T2-BK-CWB-8030-MS/DIM-LXX	4091	120/277	33	MOUNT AT +8'-6" AFF UNLESS NOTED OTHERWISE. SEE SHEET E2.01 FOR LOCATIONS. SEE NOTE 1.
EX1	LED EXIT SIGN	SURELITES# LPX7	12112	120/277	1	UNIVERSAL MOUNT EXIT SIGHN. SEE ARCHITECTUAL PLANS FOR CEILING TYPE.

MECHANICAL EQUIPMENT ELEC CONNECTION SCHEDULE

		LOAD PROPERTIES				CIRCUIT PROPERTIES					RUN PROPERTIES							CONNECTION AND PROTECTION					
		MOTOR PROPERTIES											WIRE PROPERTIES					STARTER TYPE/FURNISHED BY	DISCONNECT				
UNIT	NO.	MOTOR	WATTS	FLA	MCA	PANEL	CKT#	VOLTS	Ø	LOAD TO PANEL	# OF RUNS	C.	AWG-Cu	HOT	NEU	GR	AWG-Cu GR	MANUAL	FURNISHED BY	FUSED	VFD	DCT SMK DETECTOR FURN. BY	REMARKS
CP	1	No	60 W	0	0	PA1	14	120	1	60 VA	1	3/4"	#12	1	1	1	#12	EC	EC				
CP	2	No	60 W	0	0	PC1	15	120	1	60 VA	1	3/4"	#12	1	1	1	#12	EC	EC				
EF	1	Yes	500 W	0	0	PA1	1	120	1	500 VA	1	3/4"	#12	1	1	1	#12	EC	EC				
EF	2	Yes	500 W	0	0	PC1	1	120	1	500 VA	1	3/4"	#12	1	1	1	#12	EC	EC				
EF	3	Yes	500 W	0	0	PC1	25	120	1	500 VA	1	3/4"	#12	1	1	1	#12	EC	EC				
FCU	1	Yes	1441 W	0	4	PA1	2,4,6	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	2	Yes	1441 W	0	4	PA1	3,5,7	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	3	Yes	1441 W	0	4	PA1	8,10,12	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	4	Yes	1441 W	0	4	PA1	9,11,13	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	5	Yes	1441 W	0	4	PC1	2,4,6	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	6	Yes	1441 W	0	4	PC1	3,5,7	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	7	Yes	1441 W	0	4	PC1	8,10,12	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	8	Yes	1441 W	0	4	PC1	9,11,13	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	9	Yes	1441 W	0	4	PC1	14,16,18	208	3	1441 VA	1	3/4"	#12	3	1	1	#12	MFR	EC				
FCU	10	Yes	500 W	0	0	PA1	15	120	1	500 VA	1	3/4"	#12	1	1	1	#12	MFR	EC				
FCU	11	Yes	500 W	0	0	PC1	17	120	1	500 VA	1	3/4"	#12	1	1	1	#12	MFR	EC				

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REVISIONS DATE

Vancouver School District

FRANKLIN ELEMENTARY SCHOOL ADDITION

1698, 5206 NW Franklin St,
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JOB NO: 1806
ISSUE DATE: 08/19/2019

Jurisdiction Stamp Area

BID SET

ELECTRICAL SCHEDULES

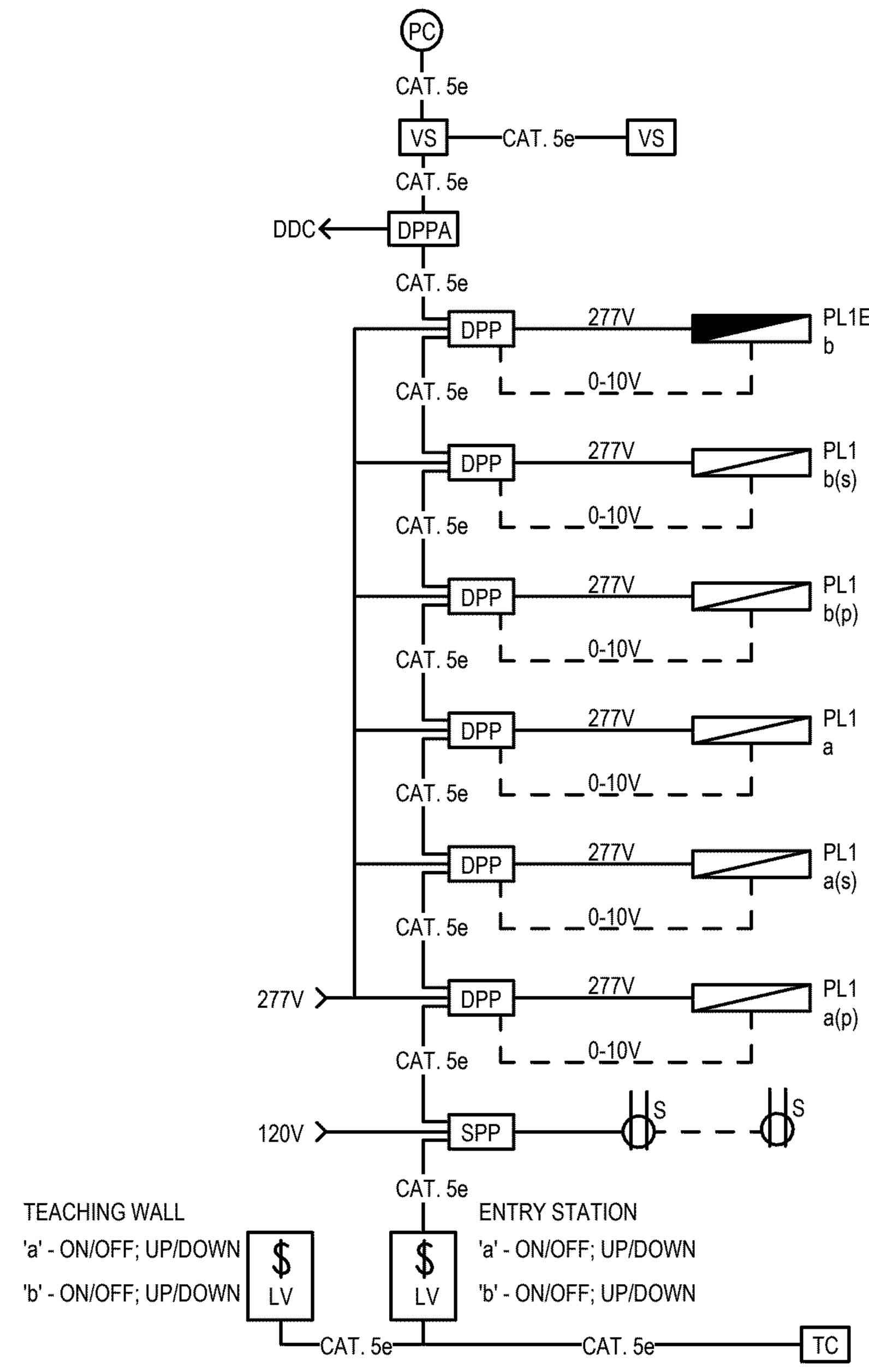
E0.02

LIGHTING CONTROLS LEGEND

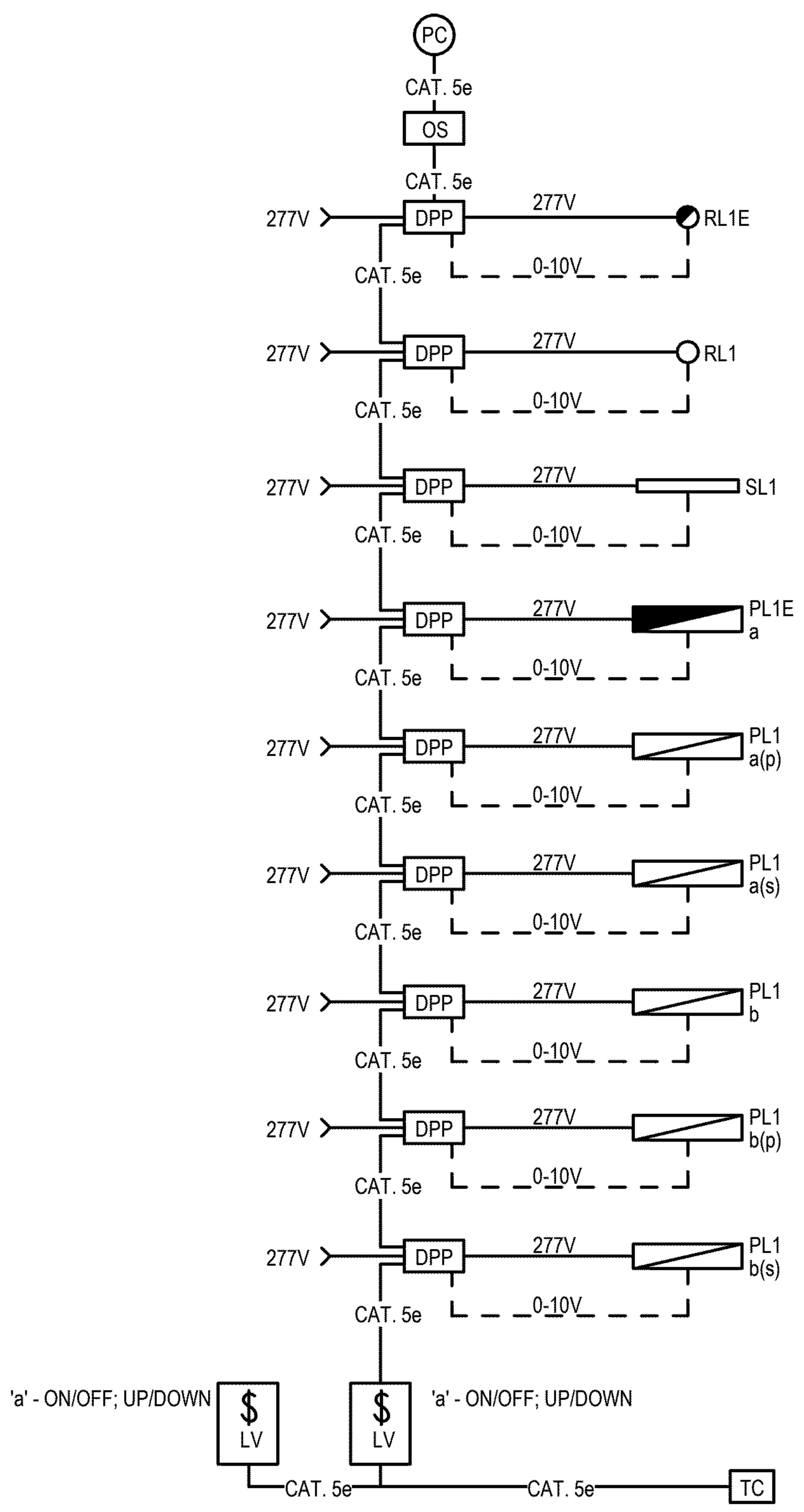
SYMBOL	DESCRIPTION
DPP	0-10V DIMMING POWER PACK.
SPP	SWITCHING POWER PACK.
DPPE	EMERGENCY DIMMING 0-10V POWER PACK.
DPPA	AUXILIARY RELAY FOR EMCS CONTACT CLOSURE.
PS	POWER SUPPLY.
PC	PHOTOCELL.
VS	VACANCY SENSOR.
CAT. 5	CATEGORY 5 CABLING.
0-10V	GRAY AND PURPLE DIMMING CONTROL.
B	CLASS 1 (LINEVOLTAGE).
C	CLASS 2 (LOW VOLTAGE).
TC	TIMER CONTROL VIA SYSTEM MASTER THROUGH BRIDGE/HUB.
a	CONTROL ZONE 'a' - TEACHING WALL.
a(p)	CONTROL ZONE 'a' PRIMARY DAYLIGHT ZONE.
a(s)	CONTROL ZONE 'a' SECONDARY DAYLIGHT ZONE.
b	CONTROL ZONE 'b' - ALL LIGHTING.
b(p)	CONTROL ZONE 'b' PRIMARY DAYLIGHT ZONE.
b(s)	CONTROL ZONE 'b' SECONDARY DAYLIGHT ZONE.

NOTE: DIAGRAMS SHOWN ARE NOT SHOP DRAWINGS AND ARE TO BE USED TO GENERALLY DESCRIBE SPECIFIED LIGHTING CONTROL. NOT ALL DEVICES ARE SHOWN, PROVIDE AND INSTALL ALL DEVICES ON APPROVED SHOP DRAWINGS FOR A COMPLETE AND COMISSIONED CONTROL SYSTEM.

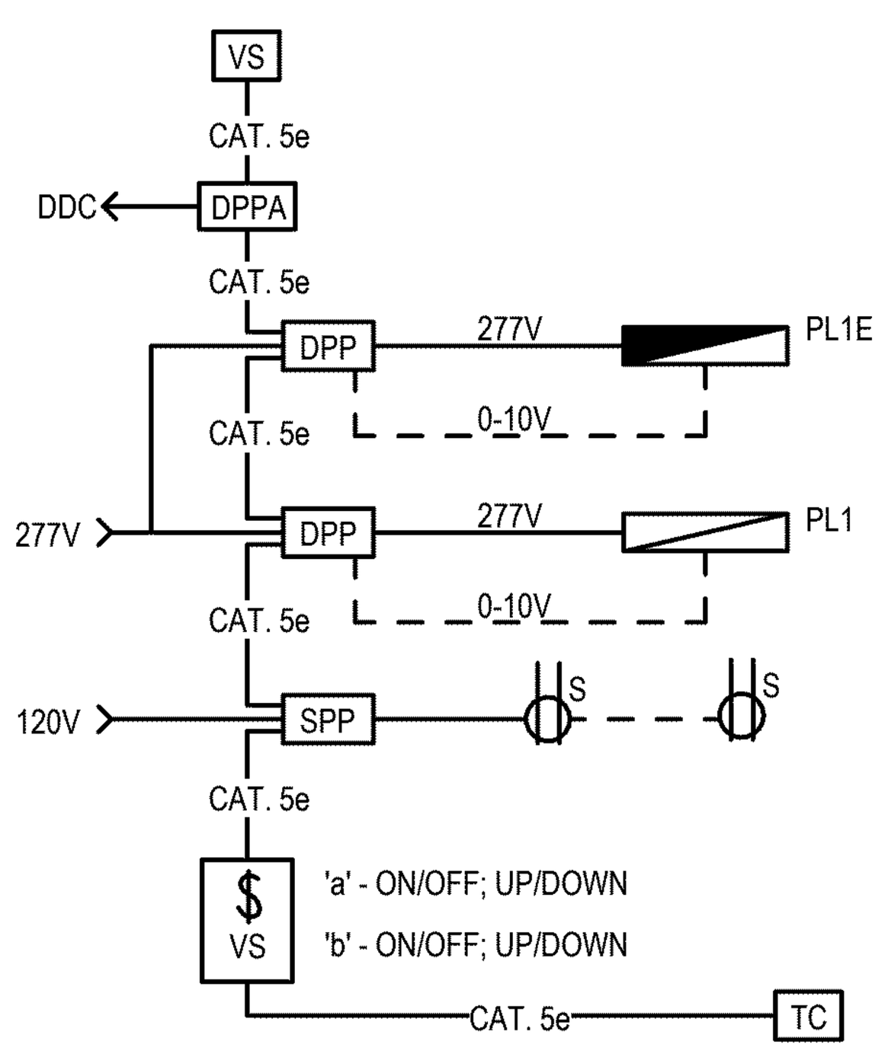
1 LIGHTING CONTROLS LEGEND
DIAGRAMMATIC



2 CLASSROOM LIGHTING
DIAGRAMMATIC



4 CORRIDOR/BATHROOM/CO-OP
DIAGRAMMATIC



3 BREAKOUT/CONFERENCE
DIAGRAMMATIC

2017 WASHINTON STATE ENERGY CODE COMPLIANCE REFERENCES

CODE REFERENCE	DESCRIPTION	TOTAL SQ. FT. OF EGRESS PATH	FIXTURE TYPE	TOTAL WATTAGE	W/SQ. FT.	COMPLIANCE METHOD
C405.2.5 - ITEM 7	MEANS OF EGRESS LIGHTING - 1st FLOOR	3090	PL1E	85	0.03	EGRESS LIGHTS ARE OCCUPANCY SENSOR CONTROLLED AFTER 6:00 P.M.
CODE REFERENCE	DESCRIPTION	LOCATION OF MASTER SWITCH	MAX. AMPACITY PER LIGHTING CIRCUIT	MAX WATTAGE PER LIGHTING CIRCUIT		COMPLIANCE METHOD
C405.2.5	AREA CONTROLS - MASTER CONTROL SWITCHES AND CIRCUIT POWER LIMIT		16	1920 WATTS		SWITCH CONTROLS ALL CORRIDOR LIGHTING - THERE ARE INDIVIDUAL SWITCHES ALSO AT CORRIDORS FOR INDEPENDENT CONTROL

LIGHTING/RECEPTACLE CONTROL SEQUENCE FOR COMMISSIONING

GENERAL REQUIREMENTS
1. VACANCY/OCCUPANCY SENSORS SHALL BE CONNECTED TOGETHER FOR CONTROL OF ALL LIGHTS IN THE ROOM. SET UP SENSORS AS INDICATED (I.E. OCCUPANCY OR VACANCY) MODE.
2. VACANCY MODE – MANUAL ON, AUTO OFF VIA SENSOR, SET AT 30 MIN.
3. OCCUPANCY MODE – AUTOMATIC ON TO 50%, AUTO OFF VIA SENSOR, SET AT 30 MIN.
4. ALL OCCUPANCY/VACANCY SENSORS SHALL BE DUAL TECHNOLOGY (I.E. INFRARED AND ULTRASONIC).
5. PHOTOCELLS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURERS. TRIGGER 1 OF PHOTOCELL TO CONTROL LIGHTS IN PRIMARY DAYLIGHT ZONES (DZ1), TRIGGER 2 OF PHOTOCELL TO CONTROL LIGHTS IN SECONDARY DAYLIGHT ZONES (DZ2). PHOTOCELLS SHALL BE CONFIGURED AND ADJUSTABLE FROM THE FLOOR.
6. ALL PHOTOCELLS SHALL HAVE CAPABILITY TO COMPLETELY SHUT OFF LIGHTS WITH SUFFICIENT NATURAL LIGHT.
7. PROGRAMMING SHALL BE PROVIDED FOR ADJUSTMENT OF LIGHTS.
8. ALL LIGHTS WHERE INDICATED SHALL BE CONTROLLED VIA 0-10V DIMMING.
9. EMERGENCY LIGHTING RELAY REQUIRED FOR CONNECTION TO ANY DESIGNATED EMERGENCY LIGHT FIXTURES WITHIN EACH SPACE FOR AUTOMATIC OVERIDE ON UPON A POWER FAILURE.

CLASSROOM (TYPICAL) LIGHTING CONTROLS
1. AUTOMATIC DAYLIGHT HARVESTING CONTROL
   a. LIGHTS IN DZ1 a(p) or b(p)– AUTO DIM CONTROLLED WITH PHOTOCELL – TRIGGER LEVEL 1.
   b. LIGHTS IN DZ2 a(s) or b(s) – AUTO DIM CONTROLLED WITH PHOTOCELL – TRIGGER LEVEL 2.
2. MANUAL SWITCHING AND DIMMING CONTROL
   a. "FRONT" CONTROL ZONE a(p) or a(s) – PL1 LIGHTING FIXTURES.
   b. "TEACHING WALL" CONTROL ZONE b(p) or b(s) – PL1 LIGHTING FIXTURES.
3. OCCUPANCY/VACANCY SENSORS SET TO VACANACY MODE – MANUAL ON ALL, PHOTOCELL ENABLED. ALL LIGHTS AUTO OFF.
4. DESIGNATED RECEPTACLES SHALL BE AUTOMATICALLY SWITCHED ON/OFF VIA TIME SCHEDULE
   a. SET SWITCHED RECEPTACLES TO ON MONDAY THROUGH FRIDAY 6:00am TO 10:00pm. SWITCH TO OFF AT ALL OTHER TIMES.
   b. DURING TIMES WHEN RECEPTACLES ARE SWITCHED OFF, THE LIGHTING CONTROL ON/OFF BUTTON SHALL AUTOMATICALLY OVERIDE THE TIME SCHEDULE AND TURN ON THE RECEPTACLES FOR TWO HOURS. AUTOMATICALLY RETURN TO TIME SCHEDULE AFTER TWO HOURS HAS ELAPSED.
5. DIMMER SWTICH AT ENTRY DOOR CONTROL STATION:
   a. BUTTON 1 -
      i. LABEL: ALL ON/OFF
      ii. FUNCTION: ON/OFF - ALL LIGHTS ON FULL LEVEL, PHOTOCELLS ENABLED, OVERIDE TIME SCHEDULE FOR SWITCHED RECEPTACLES.
   b. BUTTON 2 –
      i. LABEL: UP/DOWN
      ii. FUNCTION: MANUAL DIM OR RAISE ALL LIGHTS TOGETHER.
   c. BUTTON 3 -
      i. LABEL: WB ON/OFF
      ii. FUNCTION: ON/OFF CONTROL OF TEACHING WALL/WHITE BOARD CONTROL ZONE, PHOTOCELL ENABLED.
   d. BUTTON 4 -
      i. LABEL: UP/DOWN
      ii. FUNCTION: MANUAL DIM OR RAISE ALL TEACHING WALL/WHITE BOARD LIGHTS TOGETHER.
6. DIMMER SWITCH AT TEACHING WALL:
   a. BUTTON 1 -
      i. LABEL: ALL ON/OFF
      ii. FUNCTION: ON/OFF - ALL LIGHTS ON FULL LEVEL, PHOTOCELLS ENABLED, OVERIDE TIME SCHEDULE FOR SWITCHED RECEPTACLES.
   b. BUTTON 2 –
      i. LABEL: UP/DOWN
      ii. FUNCTION: MANUAL DIM OR RAISE ALL LIGHTS TOGETHER.
   c. BUTTON 3 -
      i. LABEL: WB ON/OFF
      ii. FUNCTION: ON/OFF CONTROL OF TEACHING WALL/WHITE BOARD CONTROL ZONE, PHOTOCELL ENABLED.
   d. BUTTON 4 -
      i. LABEL: UP/DOWN
      ii. FUNCTION: MANUAL DIM OR RAISE ALL TEACHING WALL/WHITE BOARD LIGHTS TOGETHER.

CORRIDORS/BATHROOM/CO-OP
1. ALL LIGHTS CONTROLLED BY TIME SCHEDULE
   a. SET TIME ON MONDAY THROUGH FRIDAY 6:00am TO 6:00pm. SWITCH TO OFF AT ALL OTHER TIMES, OVERRIDE BY OCCUPANCY SENSOR.
2. OCCUPANCY/VACANCY SENSORS SET TO OCCUPANCY MODE – AUTOMATICALLY TURN ON LIGHTS TO 100%.
   a. SET OCCUPANCY SENSOR TO TURN OFF LIGHTS AFTER 30 MIN OF NOT DETECTING MOTION.
   b. OCCUPANCY SENSORS DISABLED WHEN LIGHTS ARE SCHEDULED TO BE ON.

ELECTRICAL ROOM/MECHANICAL
1. ROOMS CONTROLS SHALL BE STAND ALONE AND NOT TIED TO THE BUILDING LIGHTING CONTROL SYSTEM.
2. LIGHTS CONTROLLED WITH STANDARD ON/OFF TOGGLE SWITCH.

BREAKOUT/CONFERENCE ROOM
1. MANUAL SWITCHING AND DIMMING CONTROL AT ENTRY DOOR.
2. OCCUPANCY/VACANCY SENSORS SET TO VACANCY MODE – MANUAL ON ALL, PHOTOCELL ENABLED. ALL LIGHTS AUTO OFF.
3. DESIGNATED RECEPTACLES SHALL BE AUTOMATICALLY SWITCHED ON/OFF VIA TIME SCHEDULE
   a. SET SWITCHED RECEPTACLES TO ON MONDAY THROUGH FRIDAY 6:00am TO 10:00pm. SWITCH TO OFF AT ALL OTHER TIMES.
   b. DURING TIMES WHEN RECEPTACLES ARE SWITCHED OFF, THE LIGHTING CONTROL ON/OFF BUTTON SHALL AUTOMATICALLY OVERRIDE THE TIME SCHEDULE AND TURN ON THE RECEPTACLES FOR TWO HOURS. AUTOMATICALLY RETURN TO TIME SCHEDULE AFTER TWO HOURS HAS ELAPSED.
4. DIMMER SWTICH AT ENTRY DOOR CONTROL STATION:
   a. BUTTON 1 -
      i. LABEL: ALL ON/OFF
      ii. FUNCTION: ON/OFF - ALL LIGHTS ON FULL LEVEL, PHOTOCELLS ENABLED, OVERRIDE TIME SCHEDULE FOR SWITCHED RECEPTACLES.
   b. BUTTON 2 –
      i. LABEL: UP/DOWN
      ii. FUNCTION: MANUAL DIM OR RAISE ALL LIGHTS TOGETHER.

EXTERIOR/BUILDING MOUNTED
1. ALL LIGHTING SCHEDULES SHALL RESIDE IN THE EXTERIOR LIGHTING CONTROL SYSTEM.
2. ALL EXTERIOR LIGHTS ARE TO BE OFF DURING DAYLIGHT HOURS.
3. ALL NEW EXTERIOR/BUILDING MOUNTED LIGHTING IS TOO BE CONTROLLED WITH FIXTURES WITHIN THE VICINITY.

COMMISSIONING REQUIREMENTS FOR THE LIGHTING CONTROL SYSTEM

TESTING SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. WRITTEN PROCEDURES WHICH CLEARLY DESCRIBE THE INDIVIDUAL SYSTEMATIC TEST PROCEDURES, THE EXPECTED SYSTEMS' RESPONSE OR ACCEPTANCE CRITERIA FOR EACH PROCEDURE, THE ACTUAL RESPONSE OR FINDINGS, AND ANY PERTINENT DISCUSSION SHALL BE FOLLOWED. AT A MINIMUM, TESTING SHALL AFFIRM OPERATION DURING NORMALLY OCCUPIED DAYLIGHT DONDITIONS. THE CONSTRUCTION DOCUMENTS SHALL STATE THE PARTY WHO WILL CONDUCT THE REQUIRED FUNCTIONAL TESTING.

FOR OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTO-SENSORS OR DAY-LIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
1. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
2. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULES CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
3. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTO-SENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

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REVISIONS DATE

Vancouver School District
FRANKLIN ELEMENTARY SCHOOL ADDITION
1698, 5206 NW Franklin St, Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 08/19/2019
Jurisdiction Stamp Area

BID SET

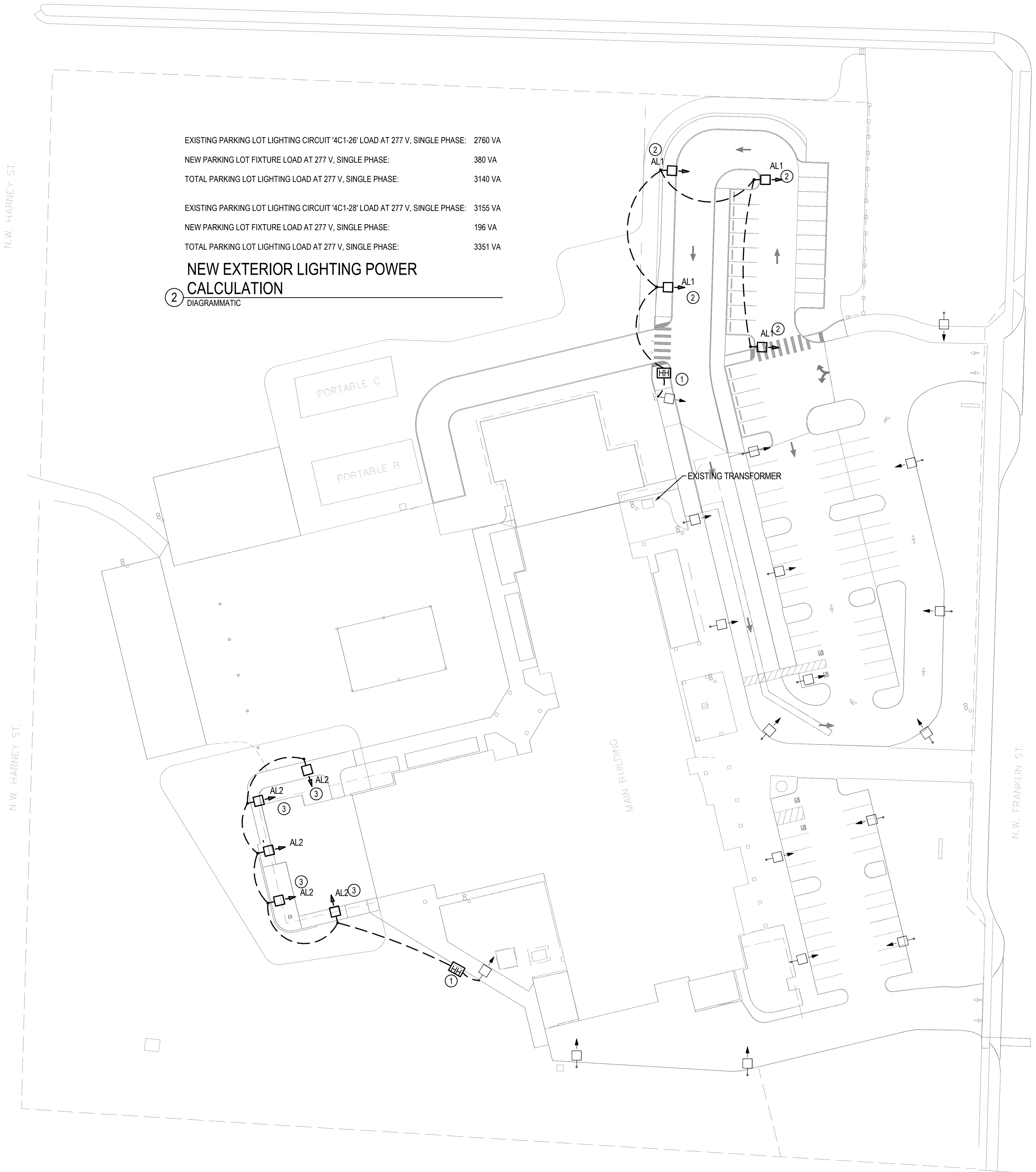
LIGHTING CONTROL DIAGRAMS

E0.03

EXISTING PARKING LOT LIGHTING CIRCUIT '4C1-26' LOAD AT 277 V, SINGLE PHASE:	2760 VA
NEW PARKING LOT FIXTURE LOAD AT 277 V, SINGLE PHASE:	380 VA
TOTAL PARKING LOT LIGHTING LOAD AT 277 V, SINGLE PHASE:	3140 VA
EXISTING PARKING LOT LIGHTING CIRCUIT '4C1-28' LOAD AT 277 V, SINGLE PHASE:	3155 VA
NEW PARKING LOT FIXTURE LOAD AT 277 V, SINGLE PHASE:	196 VA
TOTAL PARKING LOT LIGHTING LOAD AT 277 V, SINGLE PHASE:	3351 VA

(2) NEW EXTERIOR LIGHTING POWER CALCULATION

DIAGRAMMATIC



(1) ELECTRICAL SITE PLAN

1" = 30'-0"

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GENERAL NOTES

1. PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES, AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING HOMERUNS SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITHIN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO THE AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULE. ALL CONDUITS SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY, AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120' FOR 120V SHALL BE UPSIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHOW ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING, AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS.
2. PROVIDE MINIMUM OF 3/4" C., #10 WIRING, TRENCHING AND BACKFILL FOR ALL EXTERIOR LIGHTING AND DEVICE CIRCUITS.
3. SEE POLE BASE DETAILS ON E7.01.
4. SEE ONE-LINE DIAGRAM ON E5.01 FOR ALL FEEDER QUANTITIES, SIZES AND OTHER INFORMATION.
5. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS FOR ALL SITE LIGHTING AND ELECTRICAL DEVICES WITH CIVIL AND LANDSCAPE.
6. SEE TRENCHING DETAILS ON E7.01.
7. PROVIDE PULL STRING IN ALL SPARE OR EMPTY CONDUITS.

CONSTRUCTION NOTES

(1) PROVIDE FOGTITE J-11 TYPE 2 WITH H20 TRAFFIC RATED LID FOR NEW SITE LIGHTS TO BE CONTROLLED WITH THE EXISTING SITE LIGHTS.

(2) CIRCUIT NEW PARKING LOT LIGHTING FIXTURES TO EXISTING SITE LIGHTING CIRCUIT '4C1-26'. SPLICE INTERCEPT AND EXTEND CIRCUIT '4C1-26' AS REQUIRED.

(3) CIRCUIT NEW PEDESTRIAN SCALE LIGHTING FIXTURES TO EXISTING SITE LIGHTING CIRCUIT '4C1-28'. SPLICE INTERCEPT AND EXTEND CIRCUIT '4C1-28' AS REQUIRED.

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8/15/2019

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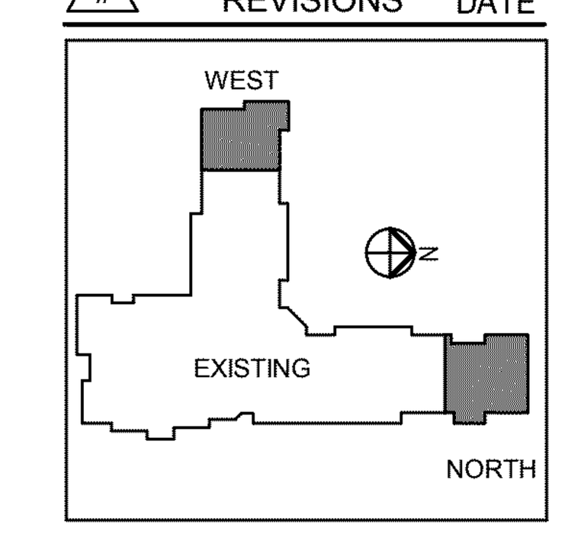

Vancouver School District

FRANKLIN ELEMENTARY SCHOOL ADDITION

1698, 5206 NW Franklin St,
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JOB NO: 1806
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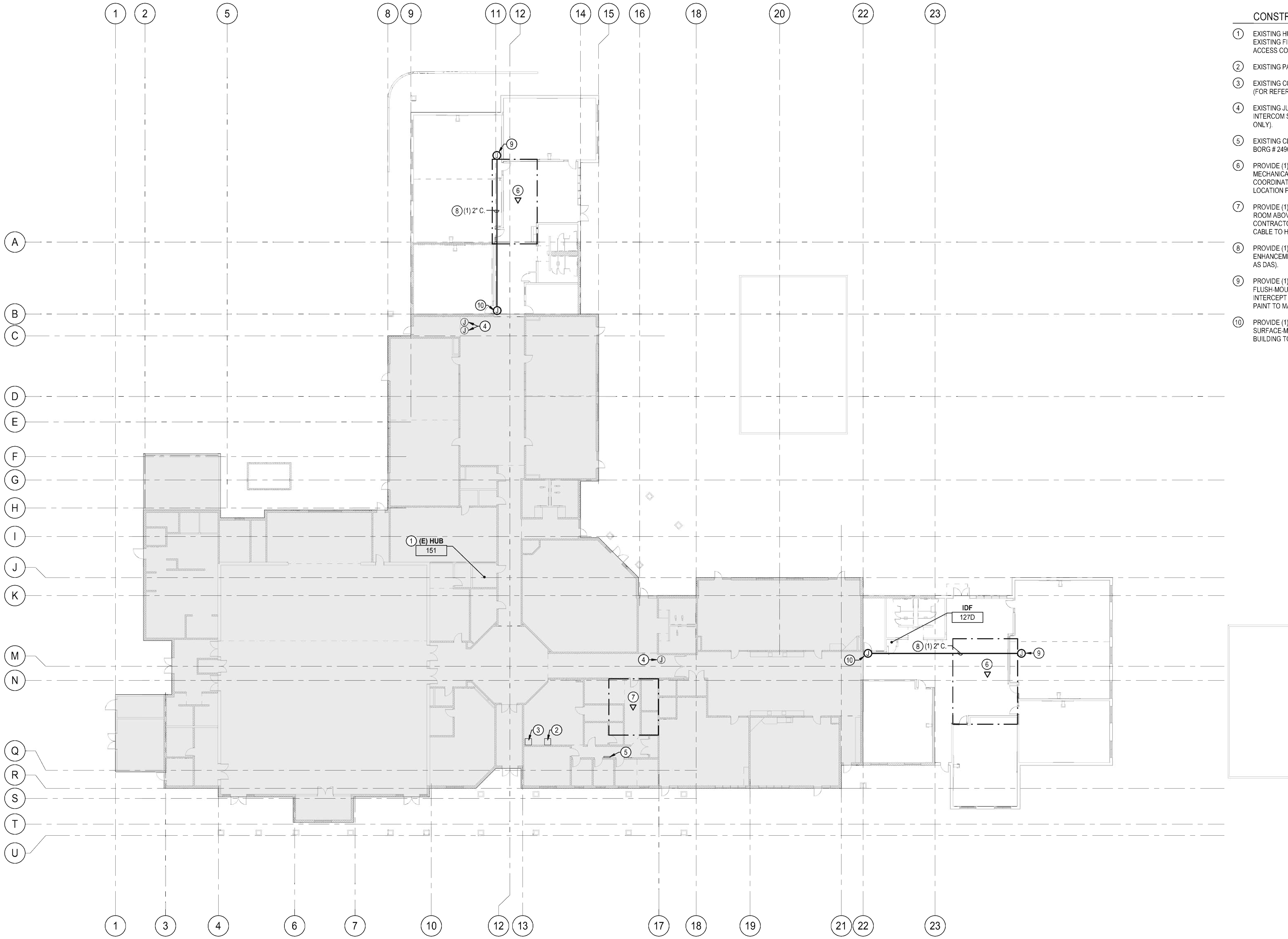
ELECTRICAL SITE PLAN

BID SET

E1.01



1 LEVEL 1 - OVERALL SYSTEMS PLAN
1/16" = 1'-0"

CONSTRUCTION NOTES

1. EXISTING HUB 151 (MDF) ROOM. LOCATION OF EXISTING FIRE ALARM CONTROL PANEL AND AMAG ACCESS CONTROL PANEL.
2. EXISTING PAGING SYSTEM HEADEND.
3. EXISTING CCTV SYSTEM NETWORK VIDEO RECORDER (FOR REFERENCE ONLY).
4. EXISTING JUNCTION BOXES IN CEILING/ATTIC FOR INTERCOM SPEAKER CABLE RUNS (FOR REFERENCE ONLY).
5. EXISTING CLOCK AND BELL HEAD END, RAULAND-BORG # 2490.
6. PROVIDE (1) WALL-MOUNTED DATA OUTLET IN MECHANICAL MEZZANINE SPACE ABOVE FOR DDC. COORDINATE WITH CONTROLS CONTRACTOR FOR LOCATION PRIOR TO ROUGH IN. CABLE TO HUB 151.
7. PROVIDE (1) WALL-MOUNTED DATA OUTLET IN BOILER ROOM ABOVE FOR DDC. COORDINATE WITH CONTROLS CONTRACTOR FOR LOCATION PRIOR TO ROUGH IN. CABLE TO HUB 151.
8. PROVIDE (1) 2" C. FOR EMERGENCY RADIO COVERAGE ENHANCEMENT SYSTEM (ERCES, OTHERWISE KNOWN AS DAS).
9. PROVIDE (1) 12"X12"X6" JUNCTION BOX WITH COVER FLUSH-MOUNTED IN CLASSROOM HARD LID CEILING TO INTERCEPT ERCES CONDUIT. PROVIDE BLANK COVER. PAINT TO MATCH.
10. PROVIDE (1) 12"X12"X6" JUNCTION BOX WITH COVER SURFACE-MOUNTED TO EXTERIOR OF EXISTING BUILDING TO INTERCEPT ERCES CONDUIT.

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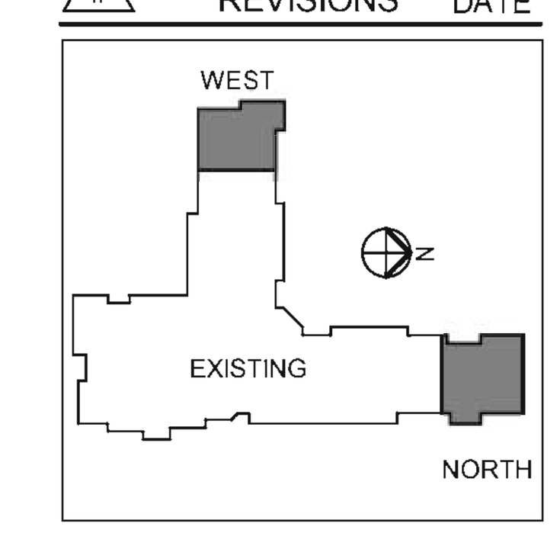

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SYSTEMS OVERALL FLOORPLAN

BID SET

E1.02

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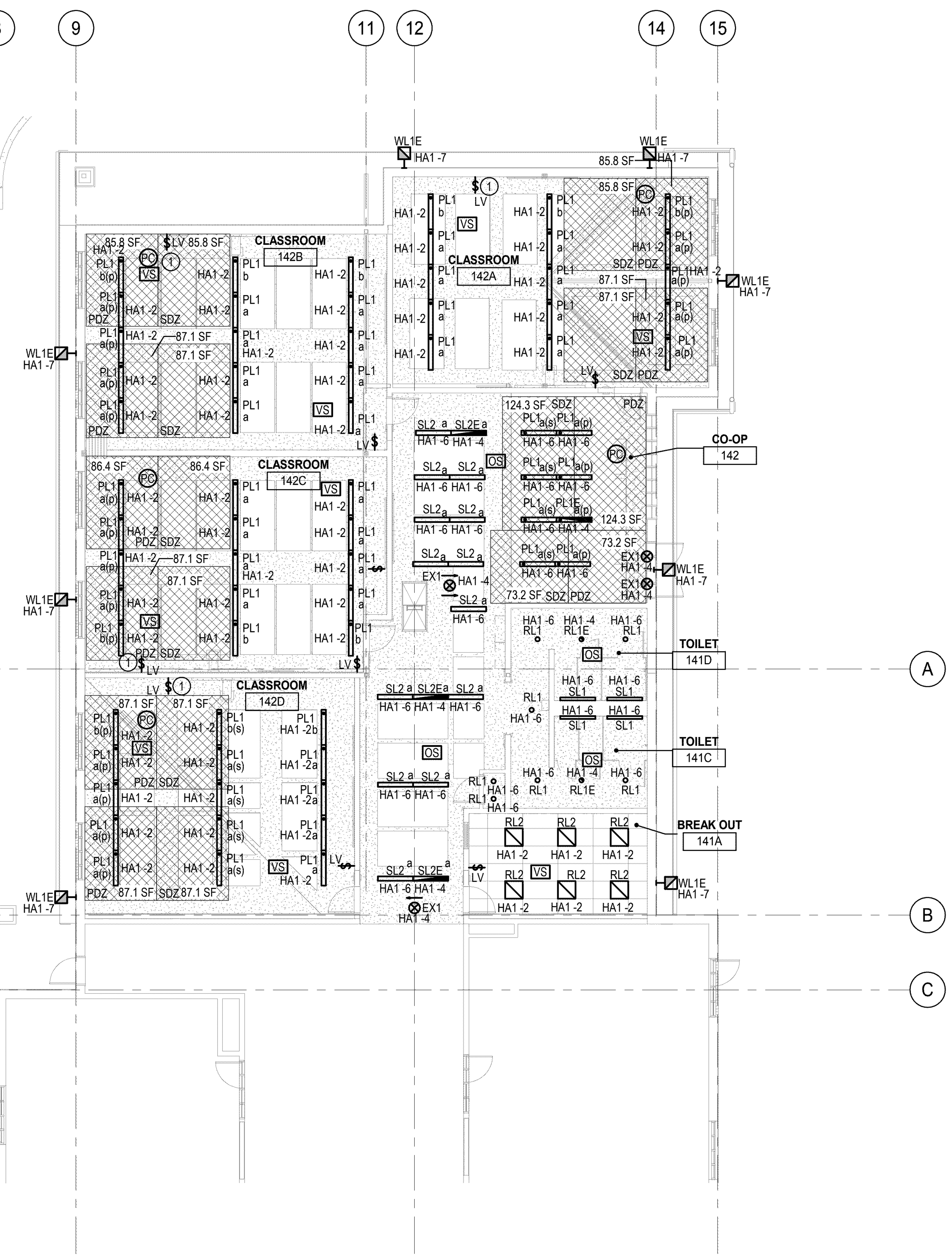
GENERAL NOTES

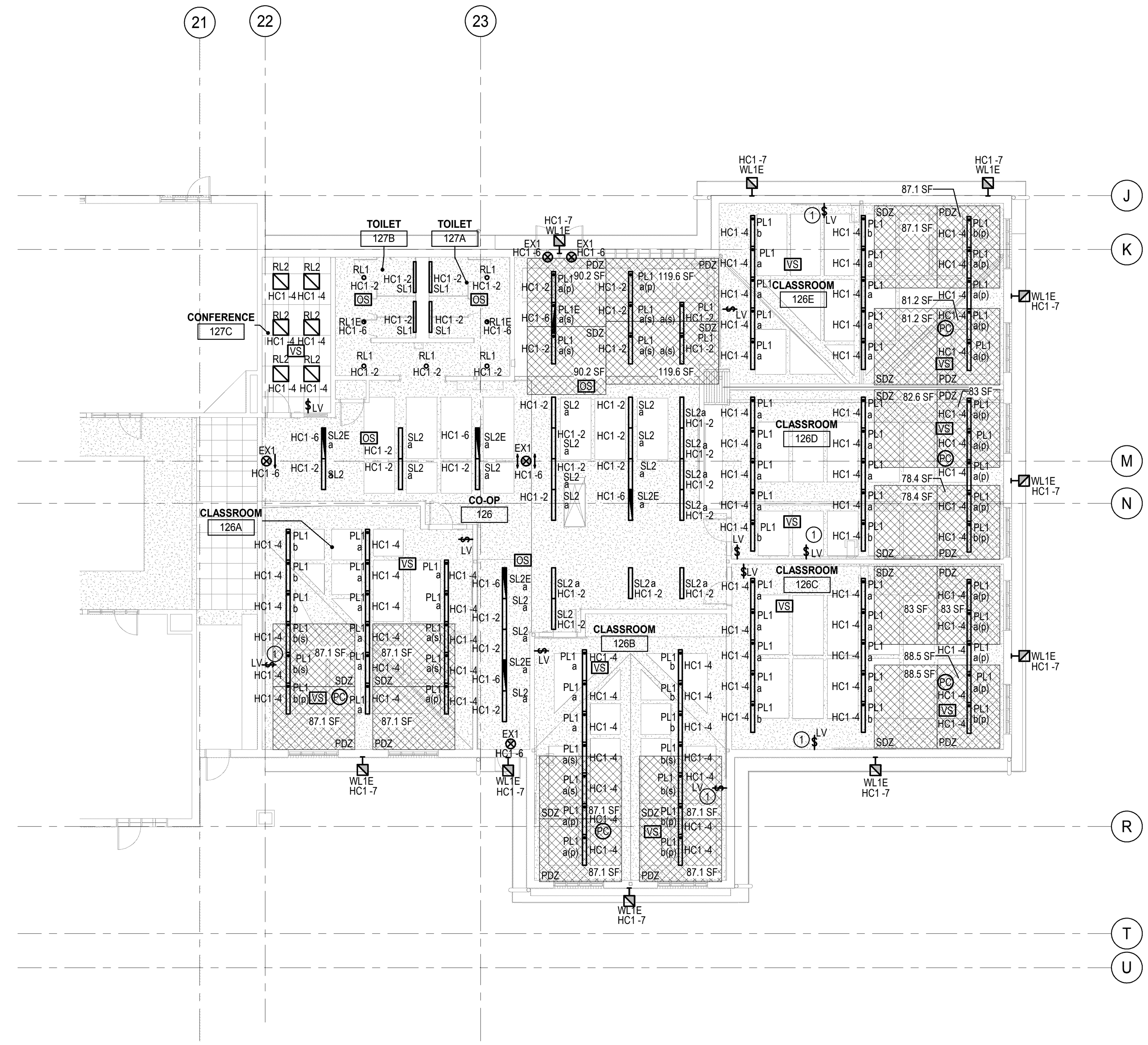
1. ALL EXPOSED CONDUITS AND BACKBOXES SHALL BE PAINTED TO MATCH STRUCTURE.
2. ANY EXPOSED CONDUIT ROUTING MUST BE EVALUATED AND APPROVED BY THE ARCHITECT.
3. SEE SHEETS E0.02 & E0.03 FOR LIGHTING CONTROL INFORMATION.
4. COORDINATE EXTERIOR BUILDING MOUNTED LIGHTING WITH ARCHITECT. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.

CONSTRUCTION NOTES

(1) TEACHING WALL LIGHTING SWITCH.



1 LEVEL 1 - LIGHTING REFLECTED CEILING PLAN - WEST
1/8" = 1'-0"



2 LEVEL 1 - LIGHTING REFLECTED CEILING PLAN - NORTH
1/8" = 1'-0"

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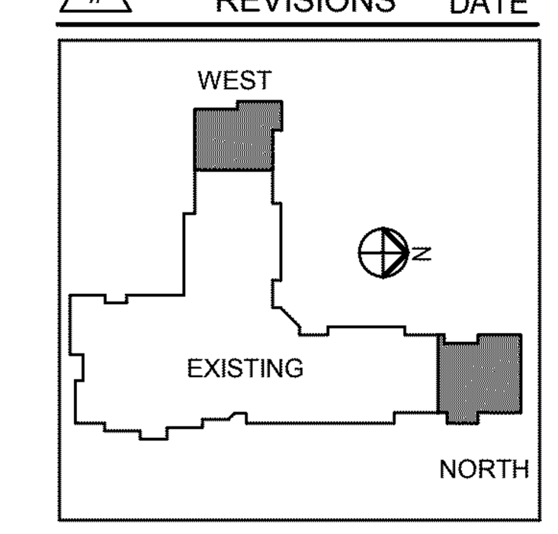

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LIGHTING REFLECTED CEILING PLANS

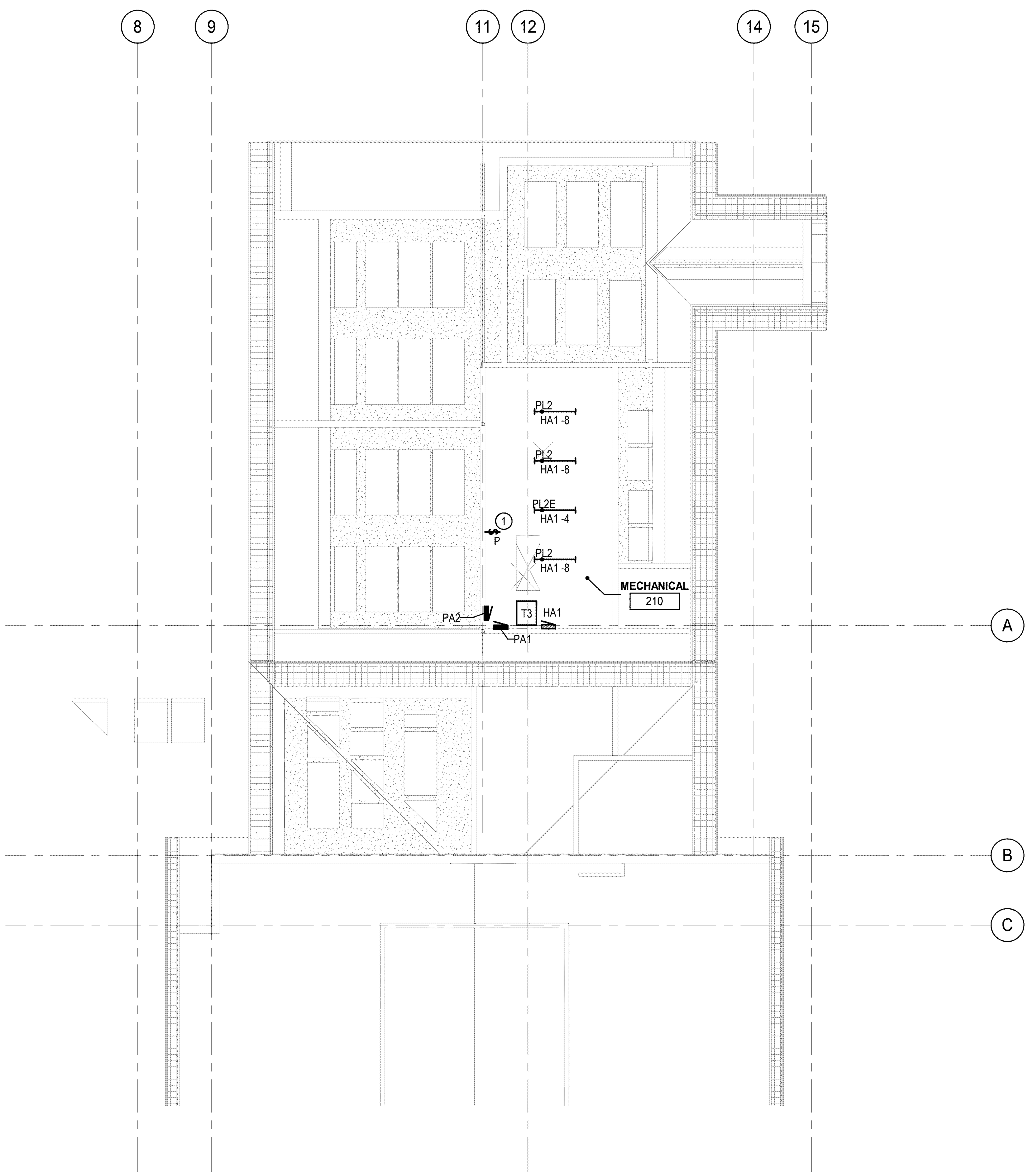
E2.01

GENERAL NOTES

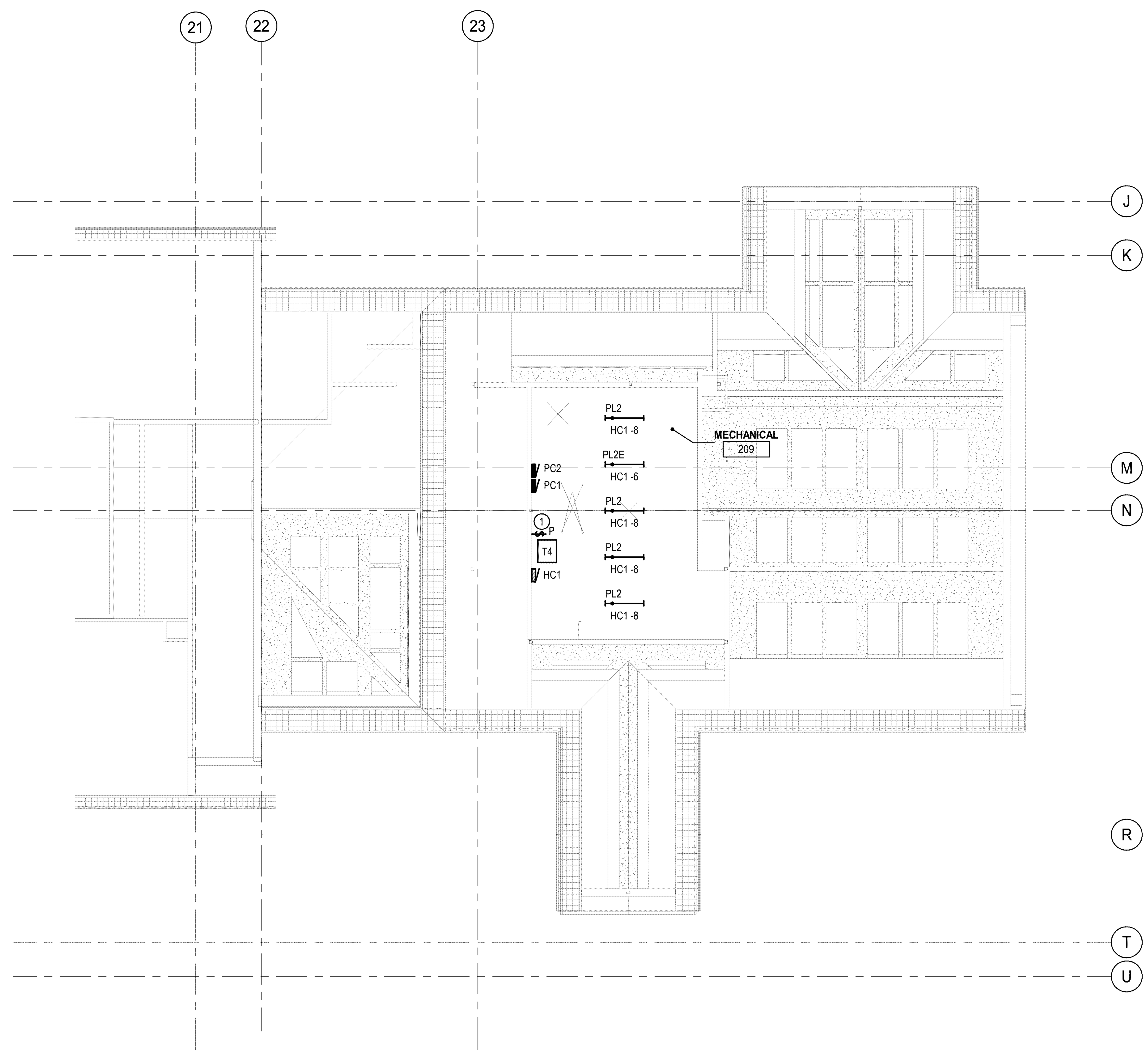
1. SEE SHEETS E0.02 & E0.03 FOR LIGHTING CONTROL INFORMATION.
2. COORDINATE WITH OTHER TRADES FOR PENDANT MOUNTING ALL LIGHTS IN ORDER TO AVOID PIPING AND DUCTOWKR. PROVIDE UNISTRUT TO SPAN PIPING AND DUCT AS REQUIRED. FIELD ADJUST LIGHT LOCATIONS TO ADEQUATELY ILLUMINATE ACCESS TO AND AROUND MECHANICAL EQUIPMENT.

CONSTRUCTION NOTES

(1) MOUNT ADJACENT TO ACCESS HATCH.



1 ATTIC - LIGHTING REFLECTED CEILING PLAN - WEST
1/8" = 1'-0"



2 ATTIC - LIGHTING REFLECTED CEILING PLAN - NORTH
1/8" = 1'-0"

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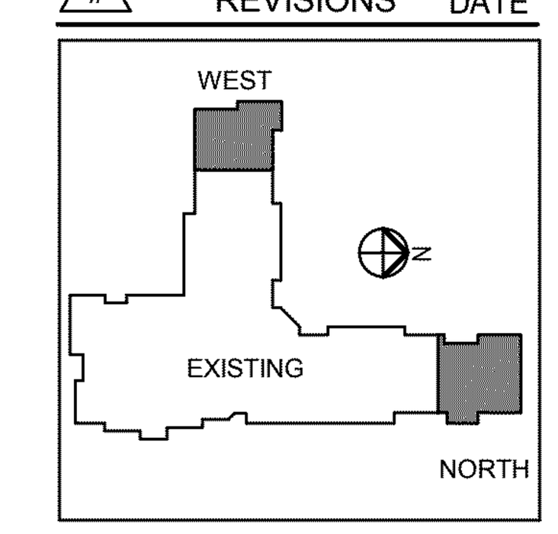
AT FULL SIZE

MICHAEL L. COZART
STATE OF WASHINGTON
34306
REGISTERED PROFESSIONAL ENGINEER
8/15/2019

REVISIONS DATE



Vancouver School District

FRANKLIN ELEMENTARY SCHOOL ADDITION

1698, 5206 NW Franklin St,
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 08/19/2019

Jurisdiction Stamp Area

BID SET

LIGHTING REFLECTED ATTIC CEILING PLANS

E2.11

GENERAL NOTES

1. PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES, AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING HOMERUNS SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITH-IN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO THE AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULE. ALL CONDUITS SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY, AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120' FOR 120V SHALL BE UPSIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHALL ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING, AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS.
2. TAMPER RESISTANT RECEPTACLES ARE NOT REQUIRED IN UNFINISHED AND NORMALLY UNOCCUPIED SPACES.
3. CONTROLLED/SWITCHED RECEPTACLES THROUGHOUT THE BUILDING ARE TO BE CONNECTED TO AND CONTROLLED VIA TIME SCHEDULE WHICH RESIDES AS PART OF THE LIGHTING CONTROL SYSTEM.

CONSTRUCTION NOTES

(1) (1) SWITCHED DUPLEX RECEPTACLE AND (1) STANDARD DUPLEX RECEPTACLE INSTALLED TOGETHER IN SAME BOX.

(2) (1) SWITCHED DUPLEX RECEPTACLE AND (1) USB CHARGING RECEPTACLE INSTALLED TOGETHER IN SAME BOX.

(3) ALL DATA/TELEPHONE OUTLET CONDUITS SHALL ROUTE IN FLOOR SLAB TO PULL BOX AT CLASSROOM SMART CENTER. PROVIDE (2) 2" C., FROM PULL BOX TO ACCESSIBLE CEILING SPACE.

(4) PROVIDE DEDICATED 120V POWER CONNECTION FOR FUTURE LAPTOP COMPUTER CHARGING STATION.

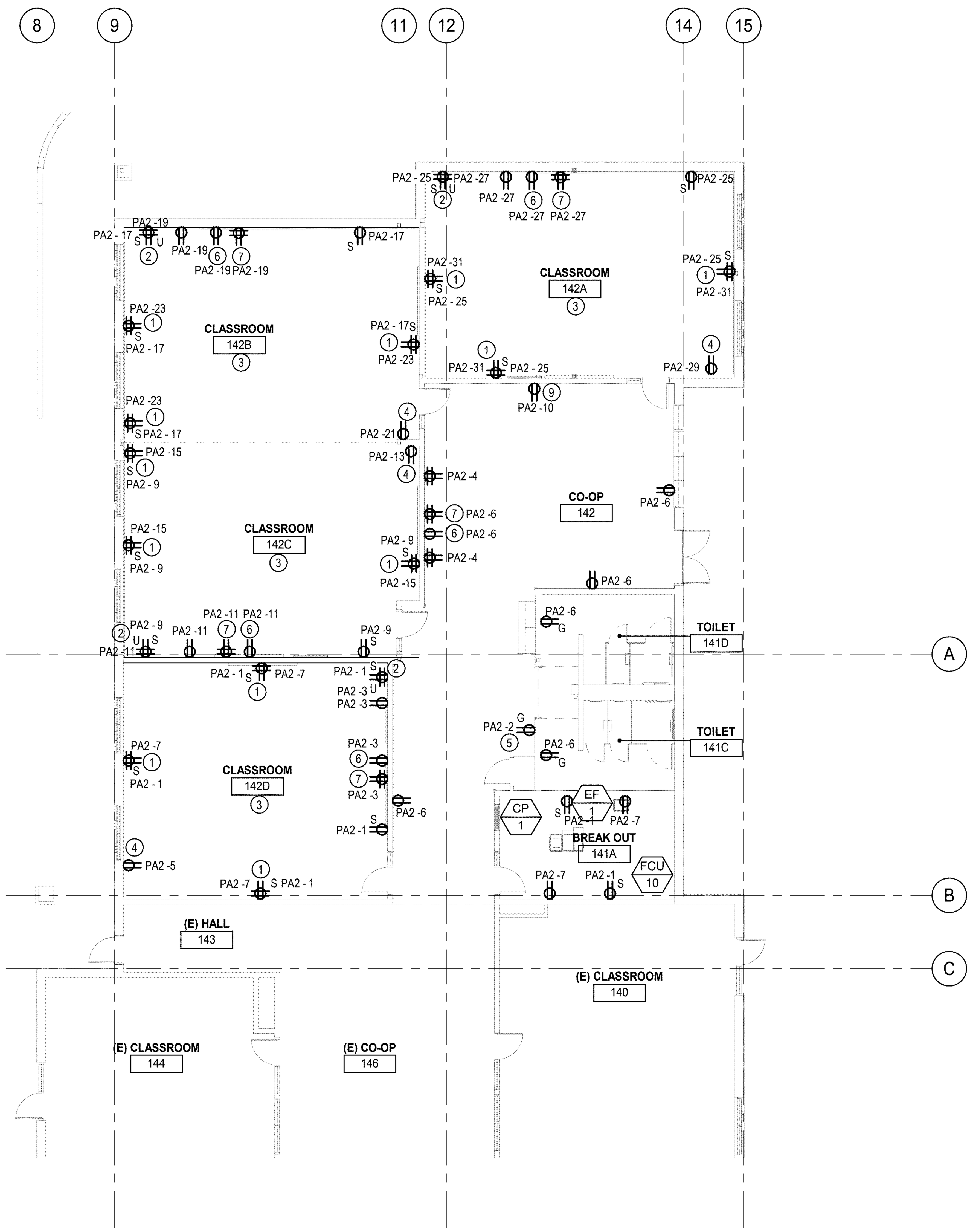
(5) PROVIDE DEDICATED 120V POWER CONNECTION FOR BOTTLE FILLERS/DRINKING FOUNTAIN.

(6) MOUNT IN WALL MOUNTED ENCLOSURE. SEE SYSTEMS SHEETS FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.

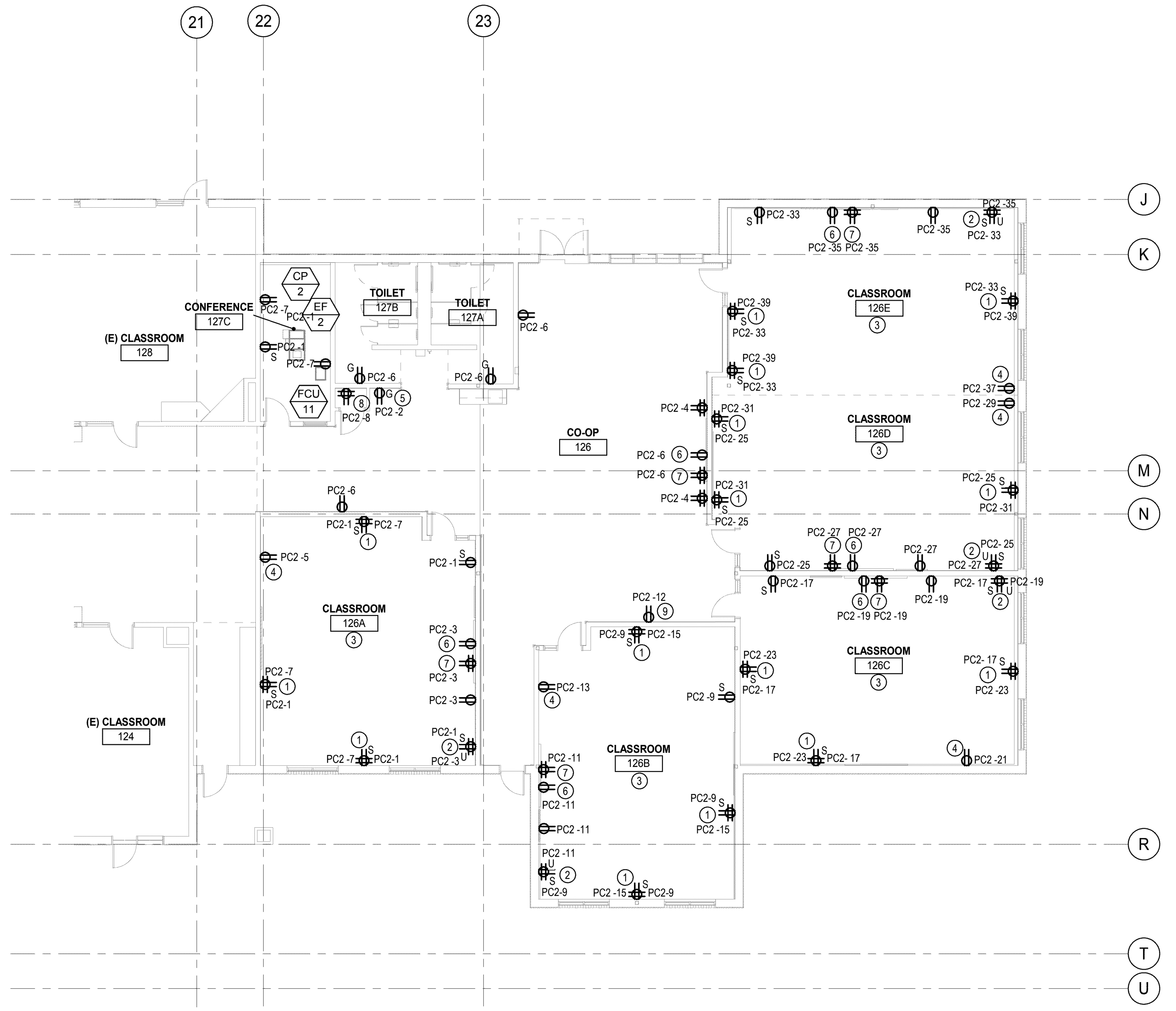
(7) MOUNT AT 8'-3" TO CENTER OF BOX.COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.

(8) PROVIDE 120V POWER CONNECTION FOR IDF ENCLOSURE. MOUNT AT +4'-0" AFF. SEE DETAIL #4 ON SHEET E4.01.

(9) PROVIDE DEDICATED DUPLEX RECEPTACLE FOR PRINTER.



1 LEVEL 1 - POWER PLAN - WEST
1/8" = 1'-0"



2 LEVEL 1 - POWER PLAN - NORTH
1/8" = 1'-0"

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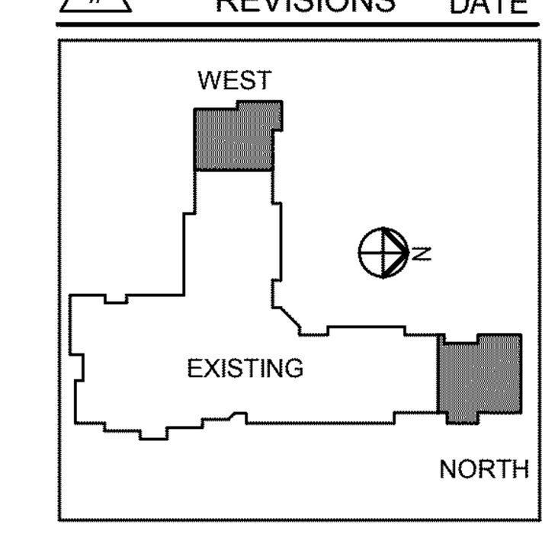

Vancouver School District

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POWER FLOOR PLANS

E3.01

GENERAL NOTES

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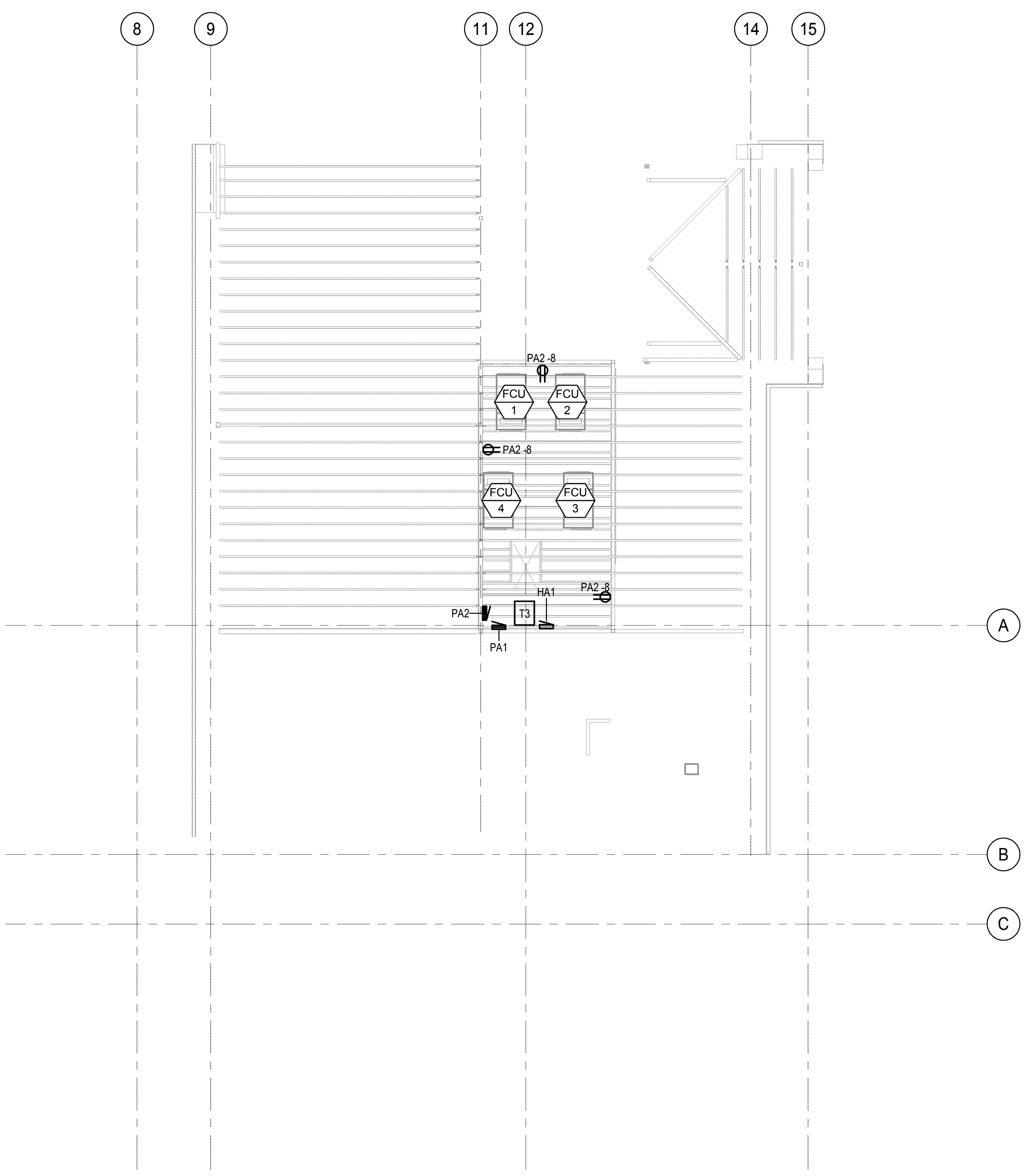
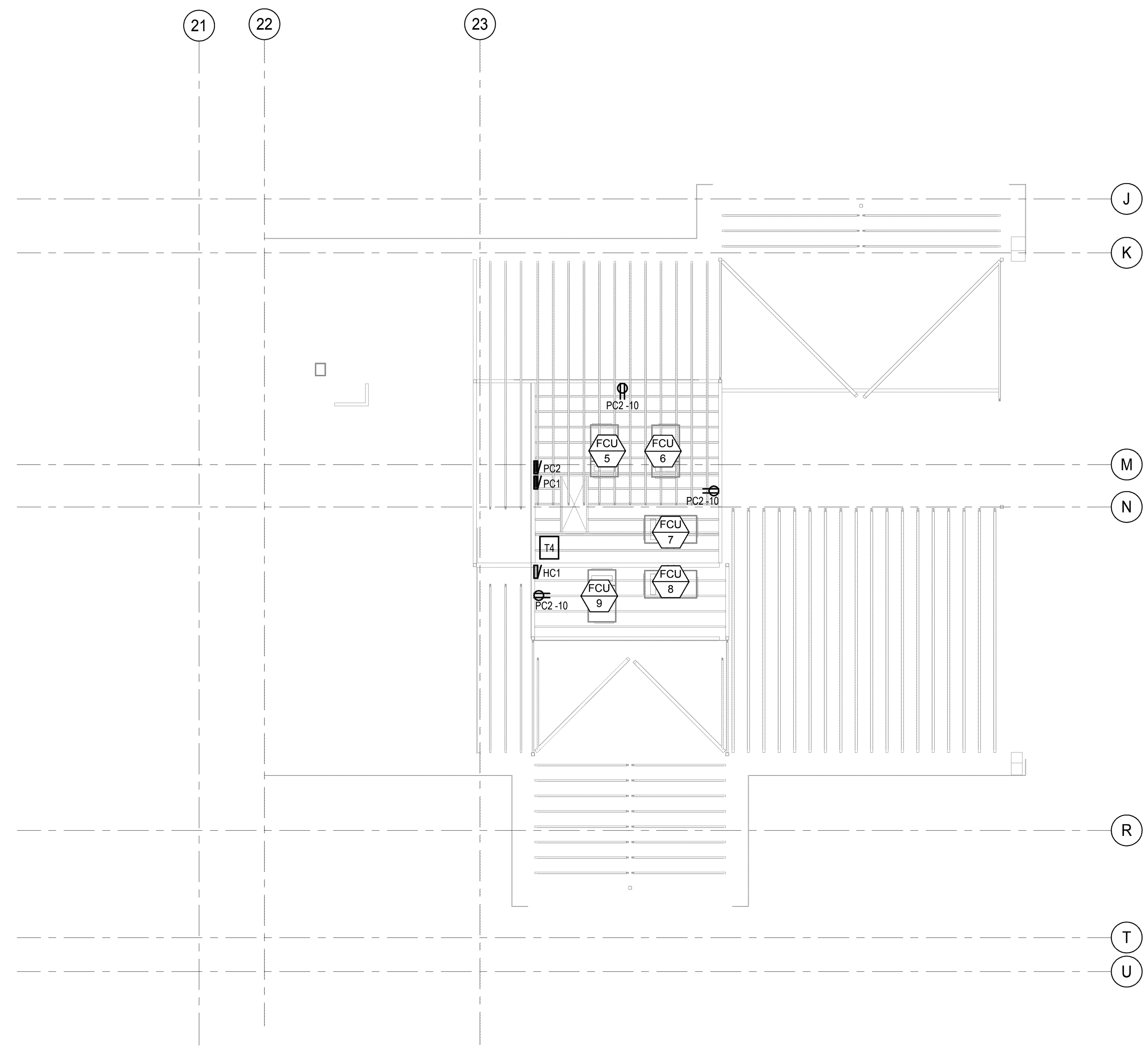


1 ATTIC - POWER PLAN - WEST
1/8" = 1'-0"



2 ATTIC - POWER PLAN - NORTH
1/8" = 1'-0"

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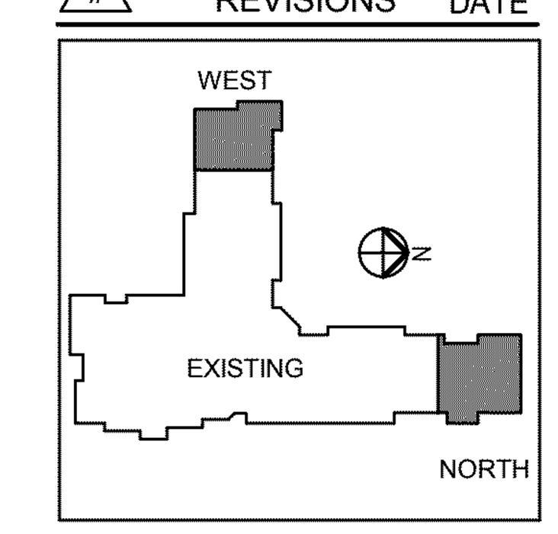

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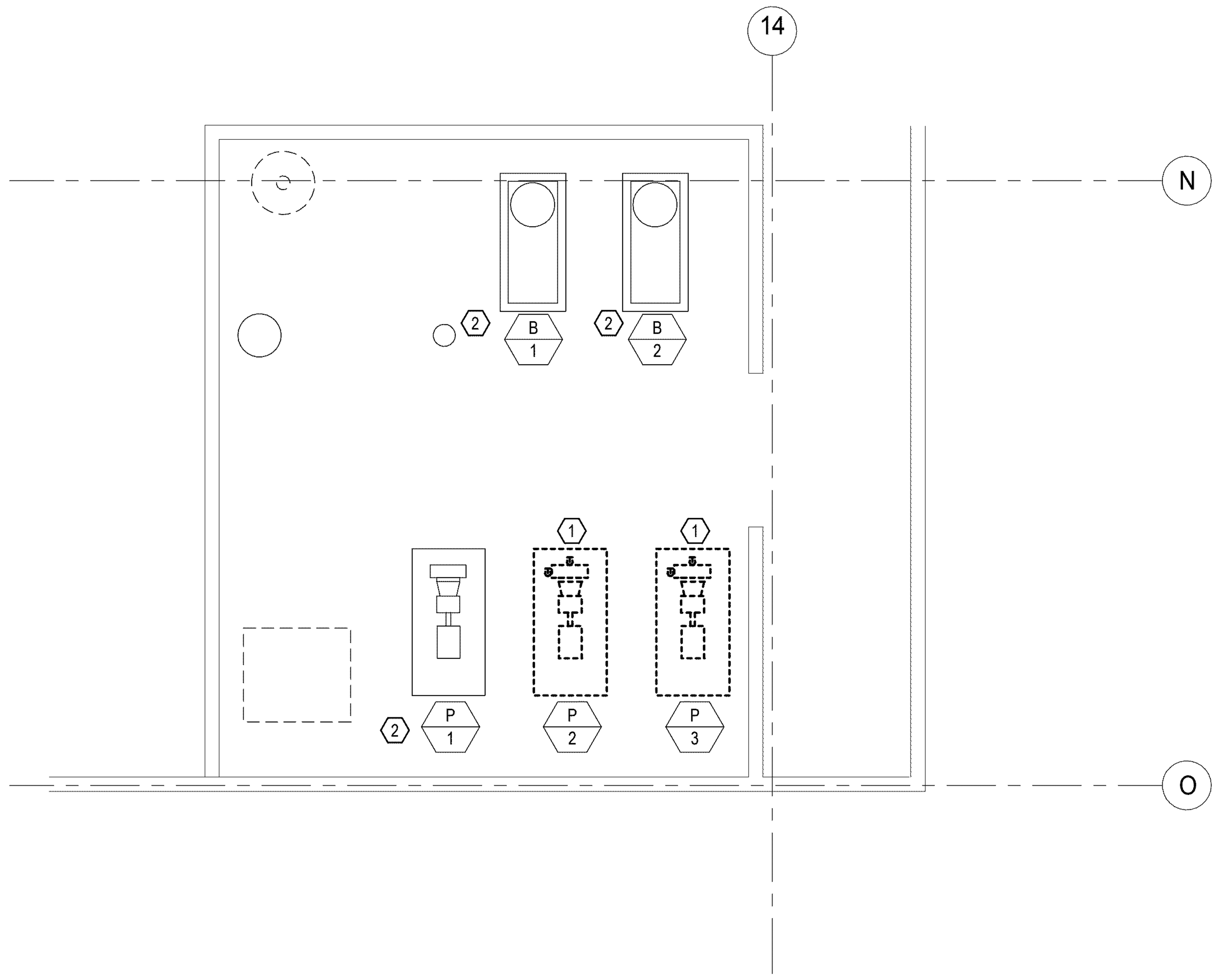
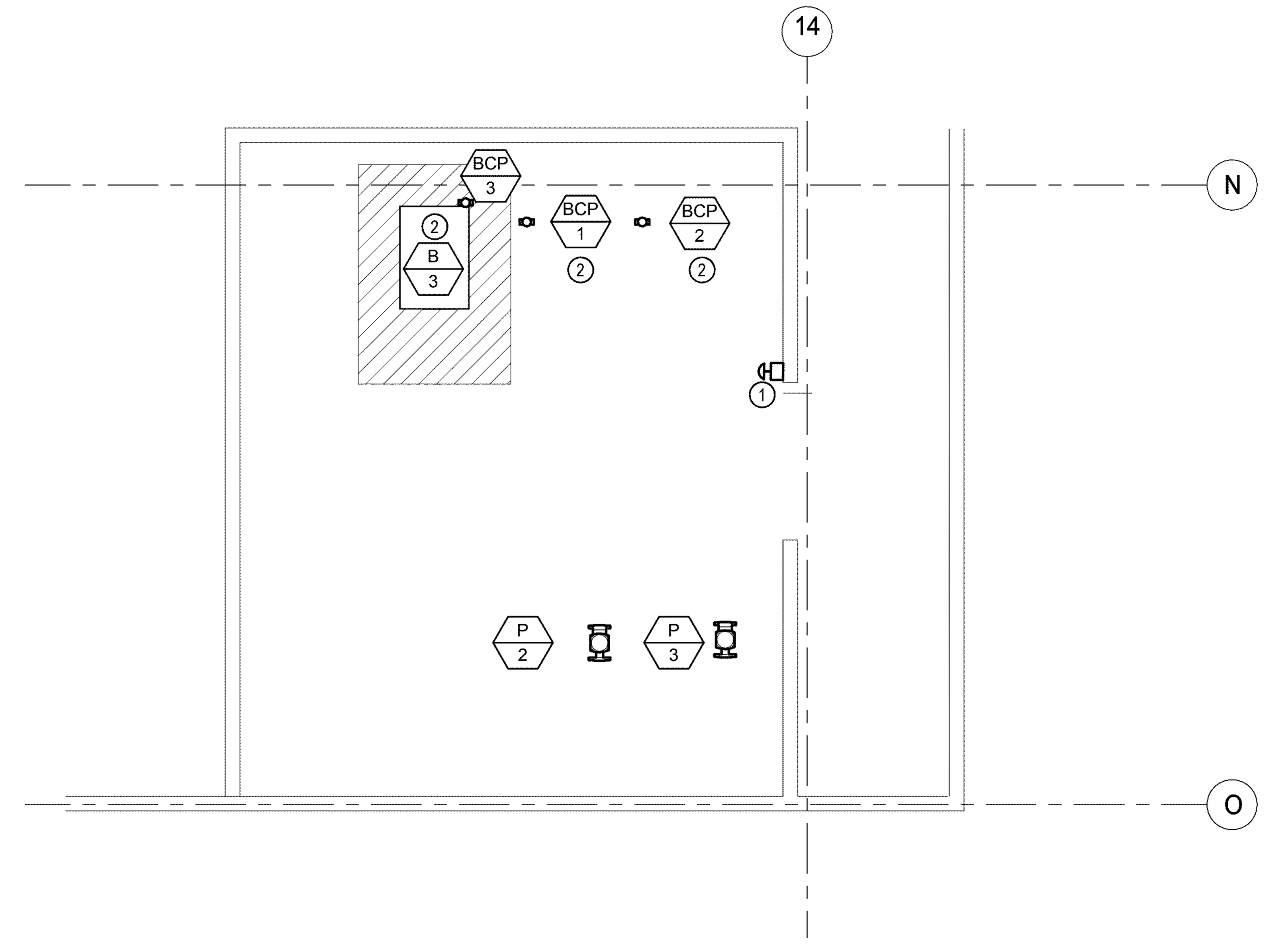
POWER FLOOR MEZZANINE PLANS

E3.11



1 POWER DEMOLITION PLAN - BOILER ROOM
1/4" = 1'-0"



2 POWER PLAN - BOILER ROOM
1/4" = 1'-0"

DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO PUMP.
2. EXISTING TO REMAIN.

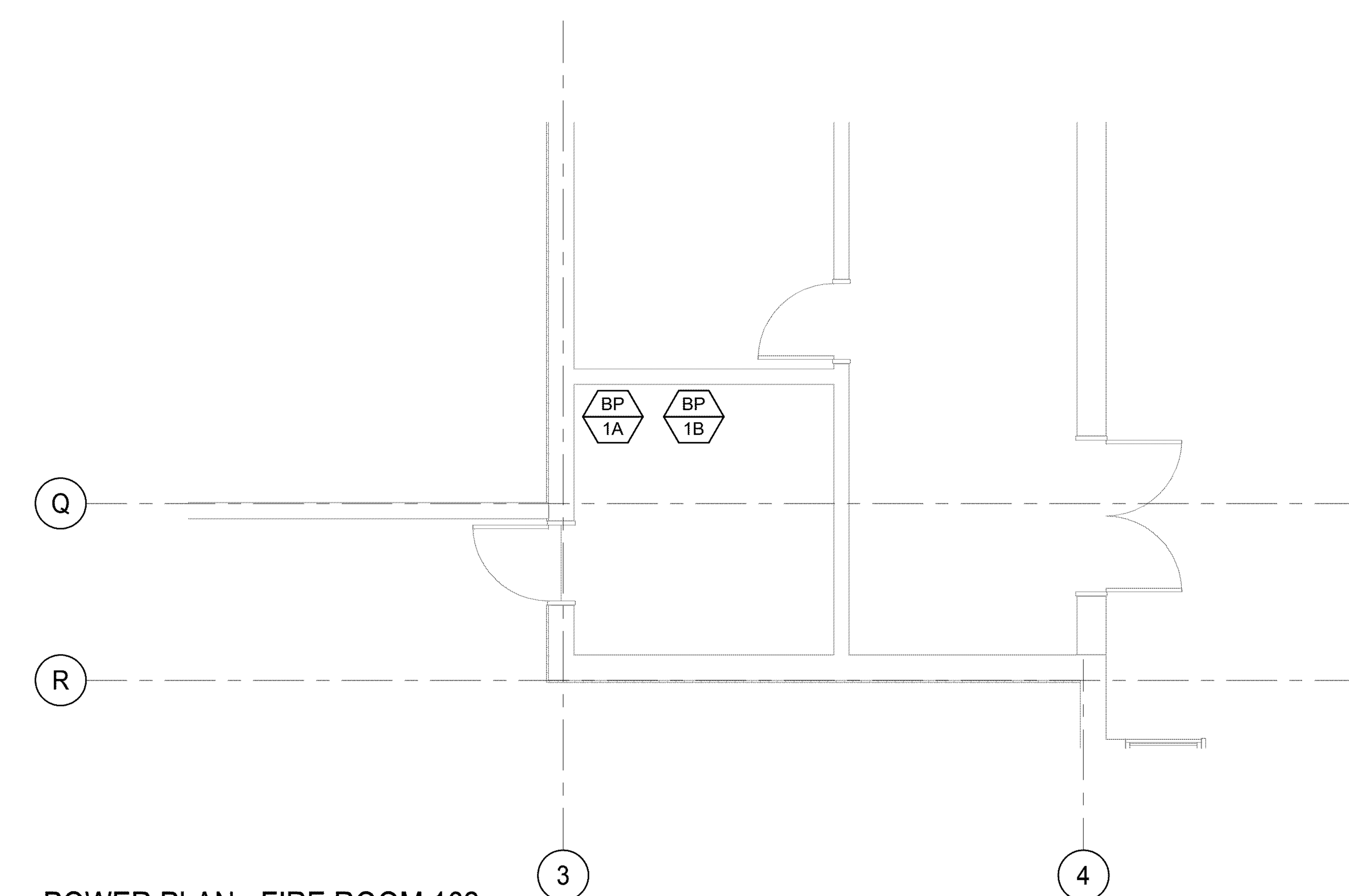
CONSTRUCTION NOTES

1. PROVIDE EMERGENCY BOILER SHUT OFF BUTTON WITH CLEAR LEXAN COVER. PROVIDE RED LABEL STATING 'EMERGENCY BOILER SHUT OFF'. SEE DETAIL ON SHEET E7.01.
2. ROUTE BOILER CIRCUIT THROUGH EMERGENCY BOILER SHUT-OFF PUSH-BUTTON.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

		LOAD			CIRCUIT							
EQUIP.	VOLT/PH	VA	FLA	HP	PANEL	BKR	CONDUIT/WIRE SIZE	MANUAL STARTER (NOTE 1)	DISCONNECT BY (NOTE 1)	FUSED DISC. (NOTE 1)	MIN. AIC. (AMPS)	REMARKS
B- 3	120/1	660	5.5	-	4C1	34	3/4" C., (2)#12 CU. & (1) #12 CU. GRD.	EC	EC		10,000	
BCP- 1	208/3	1435	-	1	4C1	19,21,23	3/4" C., (4)#12 CU. & (1) #12 CU. GRD.	EC	EC	EC	10,000	
BCP- 2	208/3	1435	-	1	4C1	19,21,23	3/4" C., (4)#12 CU. & (1) #12 CU. GRD.	EC	EC		10,000	
BCP- 3	208/3	800	-	1/2	4C1	19,21,23	3/4" C., (4)#12 CU. & (1) #12 CU. GRD.	EC	EC		10,000	
BP-1A/1B	208/3	5292	-	2	2M2	16,18,20	3/4" C., (3)#10 CU. & (1) #12 CU. GRD.	EC	EC		10,000	
P- 2	208/3	11155	-	10	4C1	1,3,5	1" C., (4) #8 CU. & (1) #12 CU. GRD.	EC	EC		10,000	
P- 3	208/3	11155	-	11	4C1	7,9,11	1" C., (4) #8 CU. & (1) #12 CU. GRD.	EC	EC		10,000	

NOTE: 1. CONTRACTOR LISTED SHALL FURNISH AND INSTALL THE LISTED DEVICE.
2. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.



3 POWER PLAN - FIRE ROOM 162
1/4" = 1'-0"

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Vancouver School District
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ENLARGED ELECTRICAL PLANS

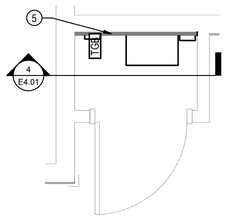
E3.12

GENERAL NOTES

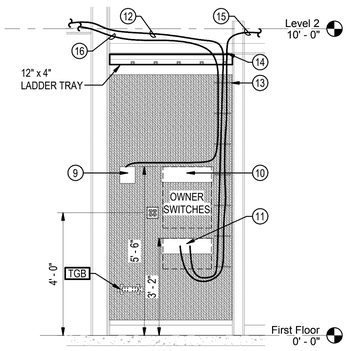
1. SEE SHEET E1.02 FOR ADDITIONAL TELECOM REQUIREMENTS AND INFORMATION.
2. ROUTE CONDUIT FROM DEVICE BACKBOXES TO ATTIC SPACE.

CONSTRUCTION NOTES

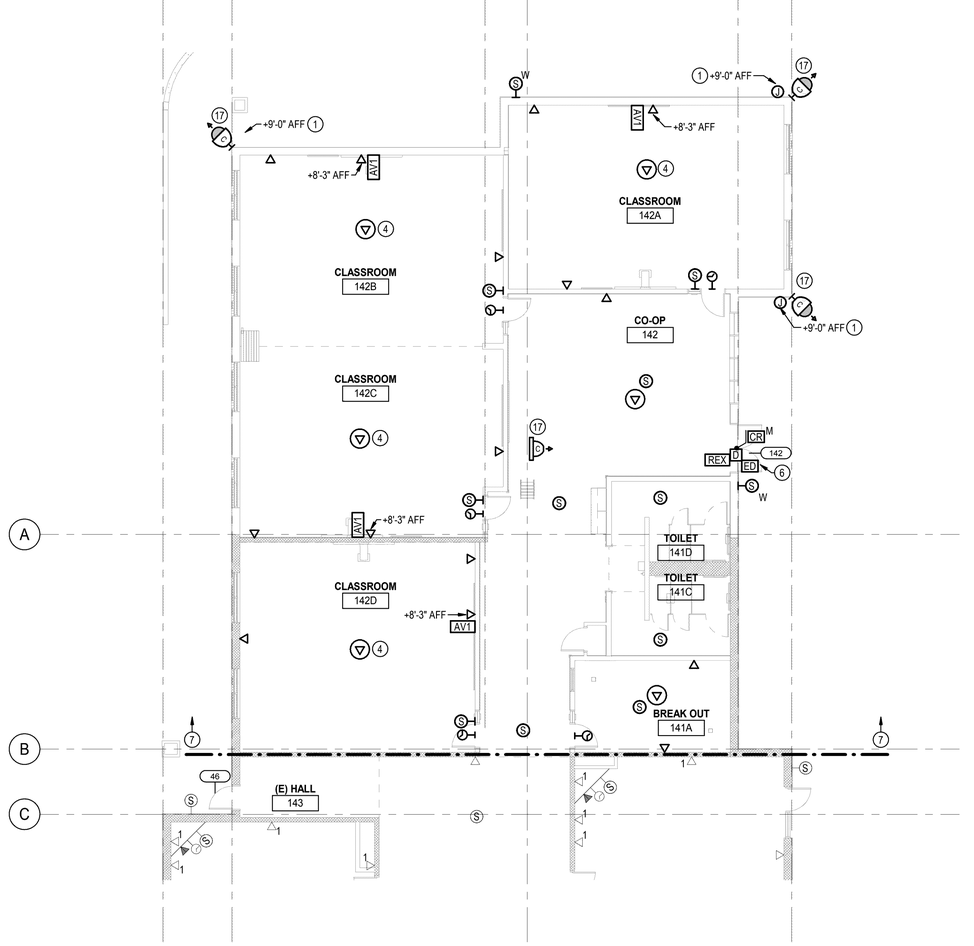
1. MOUNT SINGLE-GANG JUNCTION BOX FOR CAMERA ROUGH-IN LOCATION INSTALLED AS TIGHT TO CORNER AS POSSIBLE, FLUSH TO VENEER. COORDINATE WITH ARCHITECT AND STRUCTURAL AS REQUIRED. PROVIDE WEATHERPROOF COVER PLATE.
2. MOUNT JUNCTION BOX FOR CAMERA NORTH OF AND ADJACENT TO STRUCTURAL BEAM.
3. MOUNT JUNCTION BOX FOR CAMERA EAST OF AND ADJACENT TO STRUCTURAL BEAM.
4. MOUNT BACKBOX IN GWB CEILING. ROUTE CONDUIT TO ATTIC SPACE.
5. PROVIDE PLYWOOD BACKBOARD AS SPECIFIED.
6. PROVIDE ACCESS CONTROL DEVICE ROUGH-IN AT THIS DOOR. SEE DETAIL 8 ON SHEET E7.02 FOR ADDITIONAL INFORMATION.
7. CABLE TELECOMMUNICATIONS OUTLETS IN WEST WING TO EXISTING HUB ROOM 151.
8. CABLE TELECOMMUNICATIONS OUTLETS IN NORTH WING TO NEW HUB ROOM RACK IDENTIFIED BY NOTE 9.
9. PROVIDE (1) LEVITON # 5WMNT-1C WALL-MOUNT FIBER ENCLOSURE. PROVIDE (1) LEVITON # 5F100-2LC SINGLE MODE FIBER ADAPTER PLATE.
10. PROVIDE (1) CHATSWORTH # 11754-119 VERTICAL WALL-MOUNT BRACKET FOR OFOI SWITCHES.
11. PROVIDE (1) CHATSWORTH # 11754-119 VERTICAL WALL-MOUNT BRACKET FOR CFCI PATCH PANELS.
12. CAT 6 CABLES FROM HUB ROOM 151. SEE SHEET E7.02 DETAIL # 9 FOR ADDITIONAL INFORMATION.
13. WIRE RINGS PER SPECIFICATIONS, TYPICAL.
14. PROVIDE CONDUIT PENETRATIONS WITH 40% MAXIMUM FILL CAPACITY AS REQUIRED.
15. HORIZONTAL CABLING, SEE FLOOR PLANS FOR LOCATIONS.
16. FIBER FROM HUB ROOM 151. SEE SHEET E7.02 DETAIL # 9 FOR ADDITIONAL INFORMATION.
17. CAMERA SHOWN FOR REFERENCE ONLY. PROVIDE ROUGH-IN ONLY.



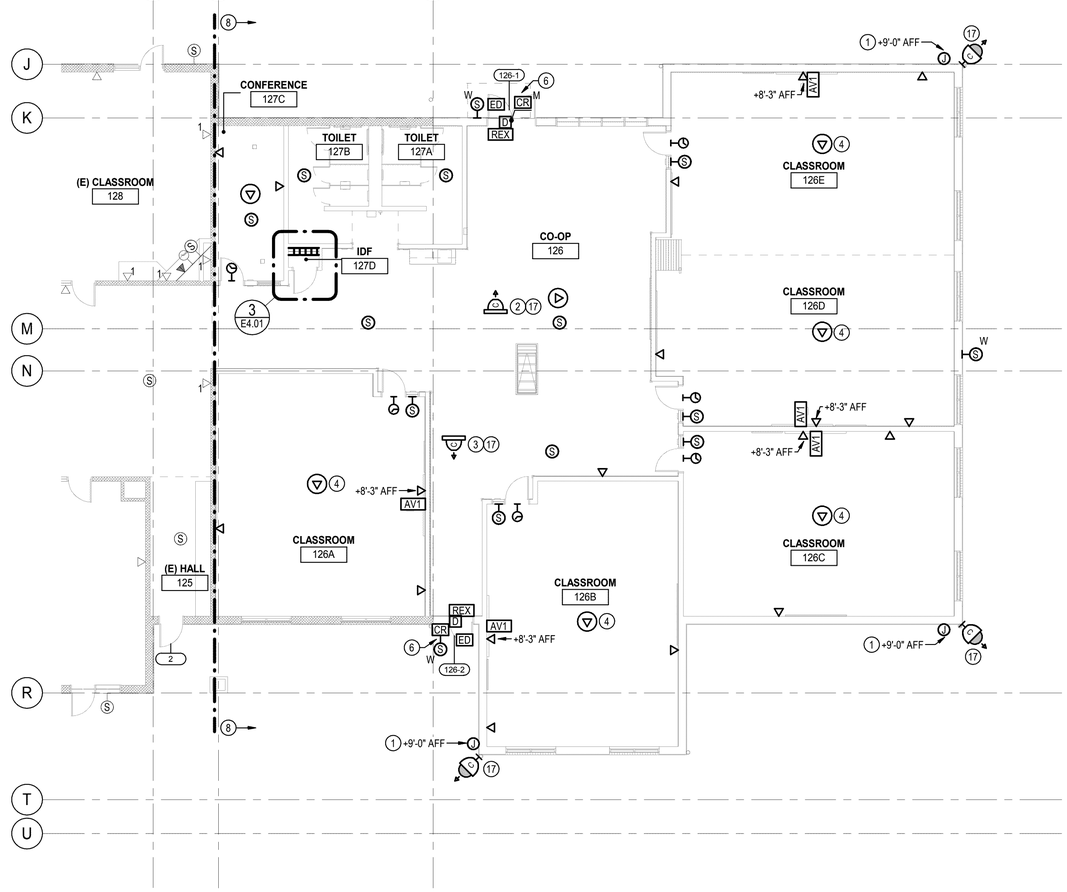
3 IDF 127D ENLARGED
1/2" = 1'-0"



4 IDF 127D ELEVATION
1/2" = 1'-0"



2 FIRST FLOOR SYSTEMS PLAN - WEST
1/8" = 1'-0"



1 FIRST FLOOR SYSTEMS PLAN - NORTH
1/8" = 1'-0"

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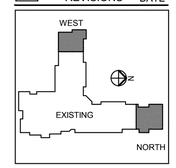

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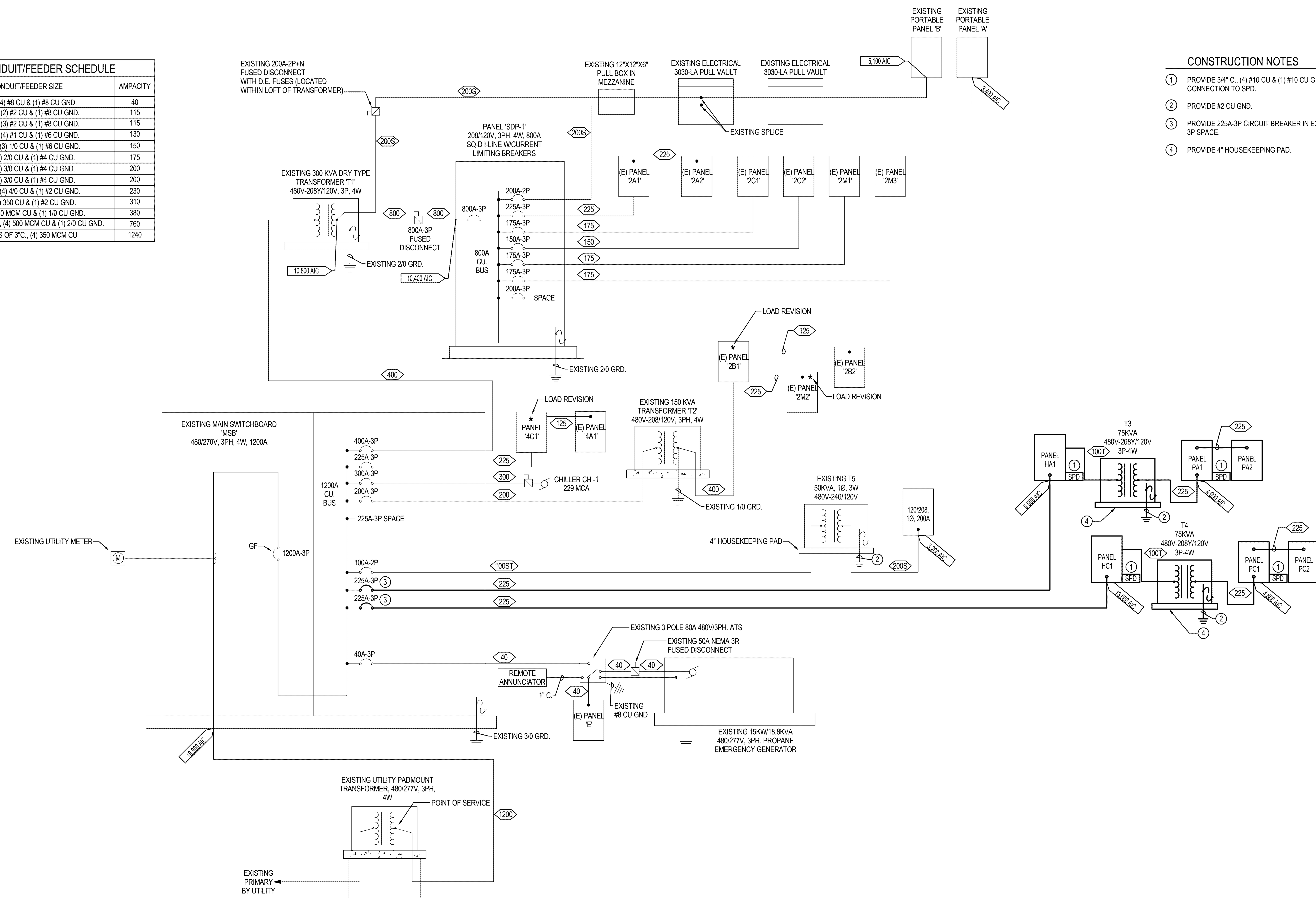
SYSTEMS FLOOR PLANS

BID SET

E4.01

COPPER CONDUIT/FEEDER SCHEDULE

FEEDER NUMBER	CONDUIT/FEEDER SIZE	AMPACITY
40	3/4"C., (4) #8 CU & (1) #8 CU GND.	40
100ST	1-1/2"C., (2) #2 CU & (1) #8 CU GND.	115
100T	1-1/2"C., (3) #2 CU & (1) #8 CU GND.	115
125	1-1/2"C., (4) #1 CU & (1) #6 CU GND.	130
150	1-1/2"C., (3) 1/0 CU & (1) #6 CU GND.	150
175	2"C., (4) 2/0 CU & (1) #4 CU GND.	175
200	2"C., (4) 3/0 CU & (1) #4 CU GND.	200
200S	2"C., (3) 3/0 CU & (1) #4 CU GND.	200
225	2-1/2"C., (4) 4/0 CU & (1) #2 CU GND.	230
300	3"C., (4) 350 CU & (1) #2 CU GND.	310
400	4"C., (4) 500 MCM CU & (1) 1/0 CU GND.	380
800	(2) SETS OF 4"C., (4) 500 MCM CU & (1) 2/0 CU GND.	760
1200	(4) SETS OF 3"C., (4) 350 MCM CU	1240



GENERAL NOTES

1. ALL CONDUCTOR SIZES ARE BASED ON COPPER.
2. SEE PANEL SCHEDULES FOR SPECIFIC PANEL INFORMATION.
3. SEE SITE PLAN E1.01 FOR ADDITIONAL INFORMATION.
4. SEE UNDERGROUND RACEWAY DETAILS ON E7.01.
5. THE SYSTEM SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT. SERIES RATINGS ARE NOT ACCEPTABLE.

CONSTRUCTION NOTES

1. PROVIDE 3/4" C., (4) #10 CU & (1) #10 CU GND. CONNECTION TO SPD.
2. PROVIDE #2 CU GND.
3. PROVIDE 225A-3P CIRCUIT BREAKER IN EXISTING 225-3P SPACE.
4. PROVIDE 4" HOUSEKEEPING PAD.

1 ELECTRICAL ONE-LINE DIAGRAM
1/8" = 1'-0"

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ELECTRICAL ONE-LINE DIAGRAM

E5.01

PANEL: HA1 | **PHASE: 3** | **VOLTAGE: 480Y/277V** | **FEED TYPE: Bottom** | **400 A MLO**
LOCATION: MECHANICAL 210 | **MOUNT: Surface** | **WIRE: 4** | **BUS**
TYPE: Type 1 | **POLES: 42** | **SF MAINS: No** | **AIC...**

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
Other;...	1	PA1 VIA T3	225	3	7881 VA	1164 VA					1	20	L CLASSROOM 67	2	L
–	3	–	–	–			6741 VA	171 VA			1	20	L CLASSROOM 67	4	L
–	5	–	–	–					6061 VA	727 VA	1	20	L CO-OP 66	6	L
L	7	L EXTERIOR BLDG MOUNTED - WEST	20	1	297 VA	63 VA					1	20	L MECHANICAL 210	8	L
–	9	SPARE	225	3			0 VA	0 VA			1	20	SPARE	10	–
–	11	–	–	–					0 VA	0 VA	1	20	SPARE	12	–
–	13	–	–	–	0 VA	0 VA					1	20	SPARE	14	–
–	15	SPARE	20	1			0 VA	0 VA			1	20	SPARE	16	–
–	17	SPARE	20	1					0 VA	0 VA	1	20	SPARE	18	–
–	19	SPARE	20	1	0 VA	0 VA					1	20	SPARE	20	–
–	21	SPACE	–	–			0 VA	0 VA			–	–	SPACE	22	–
–	23	SPACE	–	–					0 VA	0 VA	–	–	SPACE	24	–
–	25	SPACE	–	–	0 VA	0 VA					–	–	SPACE	26	–
–	27	SPACE	–	–			0 VA	0 VA			–	–	SPACE	28	–
–	29	SPACE	–	–					0 VA	0 VA	–	–	SPACE	30	–
–	31	SPACE	–	–	0 VA	0 VA					–	–	SPACE	32	–
–	33	SPACE	–	–			0 VA	0 VA			–	–	SPACE	34	–
–	35	SPACE	–	–					0 VA	0 VA	–	–	SPACE	36	–
–	37	SPACE	–	–	0 VA	0 VA					3	30	SPD	38	–
–	39	SPACE	–	–			0 VA	0 VA			–	–	–	40	–
–	41	SPACE	–	–					0 VA	0 VA	–	–	–	42	–
		Total Connected Load (VA):			9405 VA		6912 VA		6788 VA						
		Total Connected Current (A):			34		25		25						

L (125%) =	3028 VA	H (100%) =		WH (100%) =	
R<10,000(100%) =	10000 VA	Motor-LARGE (125%) =	1801 VA	K (65%) =	
R>10,000 (50%) =	1480 VA	Motor-OTHER (100%) =	4823 VA	A (100%) =	
RECEPTS TOTAL =	11480 VA	MOTOR TOTAL =	6624 VA	D (100%) =	900 VA
AW (ESTIMATED DEMAND) =		RW (ESTIMATED DEMAND) =		E (80%) =	
AW (DEMAND FACTOR) =		RW (DEMAND FACTOR) =			

Panel Totals	
Total Conn. Load:	23106 VA
Total Conn. Current:	28 A
Total Demand Load:	22592 VA
Total Demand Current:	27 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PA1 | **PHASE: 3** | **VOLTAGE: 208Y/120V** | **FEED TYPE: Bottom** | **225 A MCB**
LOCATION: MECHANICAL 210 | **MOUNT: Surface** | **WIRE: 4** | **BUS**
TYPE: Type 1,... | **POLES: 48** | **SF MAINS: Yes** | **AIC...**

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
Motor	1	EF-1	20	1	500 VA	480 VA					3	20	FCU-1	2	Motor
Motor	3	FCU-2	20	3			480 VA	480 VA			–	–	–	4	–
–	5	–	–	–					480 VA	480 VA	–	–	–	6	–
–	7	–	–	–	480 VA	480 VA					3	20	FCU-3	8	Motor
Motor	9	FCU-4	20	3			480 VA	480 VA			–	–	–	10	–
–	11	–	–	–					480 VA	480 VA	–	–	–	12	–
–	13	–	–	–	480 VA	60 VA					1	20	CP-1	14	Other
Other	15	FCU-10	20	1			500 VA	0 VA			1	20	SPARE	16	–
–	17	SPARE	20	1					0 VA	0 VA	1	20	SPARE	18	–
–	19	SPARE	20	1	0 VA	0 VA					1	20	SPARE	20	–
–	21	SPARE	20	1			0 VA	0 VA			1	20	SPARE	22	–
–	23	SPARE	20	1					0 VA	0 VA	1	20	SPARE	24	–
–	25	SPARE	20	1	0 VA	0 VA					1	20	SPARE	26	–
–	27	SPARE	20	1			0 VA	0 VA			–	–	SPACE	28	–
–	29	SPARE	20	1					0 VA	0 VA	–	–	SPACE	30	–
–	31	SPARE	20	1	0 VA	0 VA					–	–	SPACE	32	–
–	33	SPACE	–	–			0 VA	0 VA			–	–	SPACE	34	–
–	35	SPACE	–	–					0 VA	0 VA	–	–	SPACE	36	–
–	37	SPACE	–	–	0 VA	0 VA					3	30	SPD	38	–
–	39	SPACE	–	–			0 VA	0 VA			–	–	–	40	–
–	41	SPACE	–	–					0 VA	0 VA	–	–	–	42	–
–	43	SPACE	–	–	0 VA	5400 VA					3	1	PA2	44	R; D
–	45	SPACE	–	–			0 VA	4320 VA			–	–	–	46	–
–	47	SPACE	–	–					0 VA	4140 VA	–	–	–	48	–
		Total Connected Load (VA):			7881 VA		6741 VA		6061 VA						
		Total Connected Current (A):			67		57		51						

L (125%) =		H (100%) =		WH (100%) =	
R<10,000(100%) =	10000 VA	Motor-LARGE (125%) =	1801 VA	K (65%) =	
R>10,000 (50%) =	1480 VA	Motor-OTHER (100%) =	4823 VA	A (100%) =	
RECEPTS TOTAL =	11480 VA	MOTOR TOTAL =	6624 VA	D (100%) =	900 VA
AW (ESTIMATED DEMAND) =		RW (ESTIMATED DEMAND) =		E (80%) =	
AW (DEMAND FACTOR) =		RW (DEMAND FACTOR) =			

Panel Totals	
Total Conn. Load:	20684 VA
Total Conn. Current:	57 A
Total Demand Load:	19564 VA
Total Demand Current:	54 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PA2 | **PHASE: 3** | **VOLTAGE: 208Y/120V** | **FEED TYPE: Bottom** | **225 A MLO**
LOCATION: MECHANICAL 210 | **MOUNT: Surface** | **WIRE: 4** | **BUS**
TYPE: Type 1 | **POLES: 42** | **SF MAINS: No** | **AIC...**

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R CLASSROOM 64	20	1	1260 VA	180 VA					1	20	R CO-OP 66	2	R
R	3	R CLASSROOM 64	20	1			900 VA	720 VA			1	20	R CO-OP 66	4	R
D	5	D CLASSROOM 64	20	1					180 VA	1440 VA	1	20	R CO-OP 66	6	R
R	7	R CLASSROOM 64	20	1	900 VA	540 VA					1	20	R LEVEL TWO WEST MEZZANINE	8	R
R	9	R CLASSROOM 65	20	1			900 VA	180 VA			1	20	D CO-OP 142	10	D
R	11	R CLASSROOM 65	20	1					900 VA	0 VA	1	20	SPARE	12	–
D	13	D CLASSROOM 65	20	1	180 VA	0 VA					1	20	SPARE	14	–
R	15	R CLASSROOM 65	20	1			540 VA	0 VA			1	20	SPARE	16	–
R	17	R CLASSROOM 67	20	1					900 VA	0 VA	1	20	SPARE	18	–
R	19	R CLASSROOM 67	20	1	900 VA	0 VA					–	–	SPACE	20	–
D	21	D CLASSROOM 67	20	1			180 VA	0 VA			–	–	SPACE	22	–
R	23	R CLASSROOM 67	20	1					540 VA	0 VA	–	–	SPACE	24	–
R	25	R CLASSROOM 68	20	1	900 VA	0 VA					–	–	SPACE	26	–
R	27	R CLASSROOM 68	20	1			900 VA	0 VA			–	–	SPACE	28	–
D	29	D CLASSROOM 68	20	1					180 VA	0 VA	–	–	SPACE	30	–
R	31	R CLASSROOM 68	20	1	540 VA	0 VA					–	–	SPACE	32	–
–	33	SPARE	20	1			0 VA	0 VA			–	–	SPACE	34	–
–	35	SPARE	20	1					0 VA	0 VA	–	–	SPACE	36	–
–	37	SPARE	20	1	0 VA	0 VA					–	–	SPACE	38	–
–	39	SPARE	20	1			0 VA	0 VA			–	–	SPACE	40	–
–	41	SPARE	20	1					0 VA	0 VA	–	–	SPACE	42	–
		Total Connected Load (VA):			5400 VA		4320 VA		4140 VA						
		Total Connected Current (A):			45		36		35						

L (125%) =		H (100%) =		WH (100%) =	
R<10,000(100%) =	10000 VA	Motor-LARGE (125%) =	0 VA	K (65%) =	
R>10,000 (50%) =	1480 VA	Motor-OTHER (100%) =	0 VA	A (100%) =	
RECEPTS TOTAL =	11480 VA	MOTOR TOTAL =		D (100%) =	900 VA
AW (ESTIMATED DEMAND) =		RW (ESTIMATED DEMAND) =		E (80%) =	
AW (DEMAND FACTOR) =		RW (DEMAND FACTOR) =			

Panel Totals	
Total Conn. Load:	13860 VA
Total Conn. Current:	38 A
Total Demand Load:	12380 VA
Total Demand Current:	34 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: HC1 | **PHASE: 3** | **VOLTAGE: 480Y/277V** | **FEED TYPE: Bottom** | **400 A MCB**
LOCATION: MECHANICAL 209 | **MOUNT: Surface** | **WIRE: 4** | **BUS**
TYPE: Type 1 | **POLES: 42** | **SF MAINS: No** | **AIC...**

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
Other;...	1	PC1 VIA T4	225	3	8802 VA	1073 VA					1	20	L CO-OP 126	2	L
–	3	–	–	–			8582 VA	1436 VA			1	20	L CLASSROOM 12	4	L
–	5	–	–	–					7942 VA	240 VA	1	20	L STORAGE 71	6	L
L	7	L EXTERIOR BLDG MOUNTED - NORTH	20	1	330 VA	84 VA					1	20	L MECHANICAL 209	8	L
–	9	SPARE	225	3			0 VA	0 VA			1	20	SPARE	10	–
–	11	–	–	–					0 VA	0 VA	1	20	SPARE	12	–
–	13	–	–	–	0 VA	0 VA					1	20	SPARE	14	–
–	15	SPACE	–	–			0 VA	0 VA			1	20	SPARE	16	–
–	17	SPACE	–	–					0 VA	0 VA	1	20	SPARE	18	–
–	19	SPACE	–	–	0 VA	0 VA					–	–	SPACE	20	–
–	21	SPACE	–	–			0 VA	0 VA			–	–	SPACE	22	–
–	23	SPACE	–	–					0 VA	0 VA	–	–	SPACE	24	–
–	25	SPACE	–	–	0 VA	0 VA					–	–	SPACE	26	–
–	27	SPACE	–	–			0 VA	0 VA			–	–	SPACE	28	–
–	29	SPACE	–	–					0 VA	0 VA	–	–	SPACE	30	–
–	31	SPACE	–	–	0 VA	0 VA					–	–	SPACE	32	–
–	33	SPACE	–	–			0 VA	0 VA			–	–	SPACE	34	–
–	35	SPACE	–	–					0 VA	0 VA	–	–	SPACE	36	–
–	37	SPACE	–	–	0 VA	0 VA					3	30	SPD	38	–
–	39	SPACE	–	–			0 VA	0 VA			–	–	–	40	–
–	41	SPACE	–	–					0 VA	0 VA	–	–	–	42	–
		Total Connected Load (VA):			10289 VA		10018 VA		8182 VA						
		Total Connected Current (A):			38		37		30						

L (125%) =	3954 VA	H (100%) =		WH (100%) =	
R<10,000(100%) =	10000 VA	Motor-LARGE (125%) =	1801 VA	K (65%) =	
R>10,000 (50%) =	2740 VA	Motor-OTHER (100%) =	6764 VA	A (100%) =	
RECEPTS TOTAL =	12740 VA	MOTOR TOTAL =	8565 VA	D (100%) =	1080 VA
AW (ESTIMATED DEMAND) =		RW (ESTIMATED DEMAND) =		E (80%) =	
AW (DEMAND FACTOR) =		RW (DEMAND FACTOR) =			

Panel Totals	
Total Conn. Load:	28488 VA
Total Conn. Current:	34 A
Total Demand Load:	26899 VA
Total Demand Current:	32 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PC1 | **PHASE: 3** | **VOLTAGE: 208Y/120V** | **FEED TYPE: Bottom** | **225 A MCB**
LOCATION: MECHANICAL 209 | **MOUNT: Surface** | **WIRE: 4** | **BUS**
TYPE: Type 1, Feed-thru-lugs | **POLES: 48** | **SF MAINS: Yes** | **AIC...**

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
Motor	1	EF-2	20	1	500 VA	480 VA					3	20	FCU-5	2	Motor
Motor	3	FCU-6	20	3			480 VA	480 VA			–	–	–	4	–
–	5	–	–	–					480 VA	480 VA	–	–	–	6	–
–	7	–	–	–	480 VA	480 VA					3	20	FCU-7	8	Motor
Motor	9	FCU-8	20	3			480 VA	480 VA			–	–	–	10	–
–	11	–	–	–					480 VA	480 VA	–	–	–	12	–
–	13	–	–	–	480 VA	480 VA					3	20	FCU-9	14	Motor
Other	15	CP-2	20	1			60 VA	480 VA			–	–	–	16	–
Other	17	FCU-11	20	1					500 VA	480 VA	–	–	–	18	–
–	19	SPARE	20	3	0 VA	0 VA					3	20	SPARE	20	–
–	21	–	–	–			0 VA	0 VA			–	–	–	22	–
–	23	–	–	–					0 VA	0 VA	–	–	–	24	–
Motor	25	EF-3	20	1	500 VA	0 VA					1	20	SPARE	26	–
–	27	SPACE	–	–			0 VA	0 VA			–	–	SPACE	28	–
–	29	SPACE	–	–					0 VA	0 VA	–	–	SPACE	30	–
–	31	SPACE	–	–	0 VA	0 VA					–	–	SPACE	32	–
–	33	SPACE	–	–			0 VA	0 VA			–	–	SPACE	34	–
–	35	SPACE	–	–					0 VA	0 VA	–	–	SPACE	36	–
–	37	SPACE	–	–	0 VA	0 VA					3	30	SPD	38	–
–	39	SPACE	–	–			0 VA	0 VA			–	–	–	40	–
–	41	SPACE	–	–					0 VA	0 VA	–	–	–	42	–
–	43	SPACE	–	–	0 VA	5400 VA					3	1	PC2	44	R; D
–	45	SPACE	–	–			0 VA	6120 VA			–	–	–	46	–
–	47	SPACE	–	–					0 VA	5040 VA	–	–	–	48	–
		Total Connected Load (VA):			8802 VA		8582 VA		7942 VA						
		Total Connected Current (A):			74		72		66						

L (125%) =		H (100%) =		WH (100%) =	
R<10,000(100%) =	10000 VA	Motor-LARGE (125%) =	1801 VA	K (65%) =	
R>10,000 (50%) =	2740 VA	Motor-OTHER (100%) =	6764 VA	A (100%) =	
RECEPTS TOTAL =	12740 VA	MOTOR TOTAL =	8565 VA	D (100%) =	1080 VA
AW (ESTIMATED DEMAND) =		RW (ESTIMATED DEMAND) =		E (80%) =	
AW (DEMAND FACTOR) =		RW (DEMAND FACTOR) =			

Panel Totals	
Total Conn. Load:	25325 VA
Total Conn. Current:	70 A
Total Demand Load:	22945 VA
Total Demand Current:	64 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

PANEL: PC2 | **PHASE: 3** | **VOLTAGE: 208Y/120V** | **FEED TYPE: Bottom** | **225 A MLO**
LOCATION: MECHANICAL 209 | **MOUNT: Surface** | **WIRE: 4** | **BUS**
TYPE: Type 1 | **POLES: 42** | **SF MAINS: No** | **AIC...**

LC	#	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	#	LC
R	1	R CLASSROOM 69	20	1	1260 VA	180 VA					1	20	R CO-OP 74	2	R
R	3	R CLASSROOM 69	20	1			900 VA	720 VA			1	20	R CO-OP 74	4	R
D	5	D CLASSROOM 69	20	1					180 VA	1260 VA	1	20	R CO-OP 74	6	R
R	7	R CLASSROOM 69	20	1	900 VA	360 VA					1	20	R CO-OP 74	8	R
R	9	R CLASSROOM 70	20	1			900 VA	540 VA			1	20	R LEVEL TWO NORTH MEZZANINE	10	R
R	11	R CLASSROOM 70	20	1					900 VA	180 VA	1	20	D CO-OP-1 126-1	12	D
D	13	D CLASSROOM 70	20	1	180 VA	0 VA					1	20	SPARE	14	–
R	15	R CLASSROOM 70	20	1			540 VA	0 VA			1	20	SPARE	16	–
R	17	R CLASSROOM 126C	20	1					900 VA	0 VA	1	20	SPARE	18	–
R	19	R CLASSROOM 126C	20	1	900 VA	0 VA					1	20	SPARE	20	–
D	21	D CLASSROOM 126C	20	1			180 VA	0 VA			1	20	SPARE	22	–
R	23	R CLASSROOM 126C	20	1					540 VA	0 VA	1	20	SPARE	24	–
R	25	R CLASSROOM 11	20	1	900 VA	0 VA					–	–	SPACE	26	–
R	27	R CLASSROOM 11	20	1			900 VA	0 VA			–	–	SPACE	28	–
D	29	D CLASSROOM 11	20	1					180 VA	0 VA	–	–	SPACE	30	–
R	31	R CLASSROOM 11	20	1	540 VA	0 VA					–	–	SPACE	32	–
R	33	R CLASSROOM 12	20	1			900 VA	0 VA			–	–	SPACE	34	–
R	35	R CLASSROOM 12	20	1					900 VA	0 VA	–	–	SPACE	36	–
D	37	D CLASSROOM 12	20	1	180 VA	0 VA					–	–	SPACE	38	–
R	39	R CLASSROOM 12	20	1			540 VA	0 VA			–	–	SPACE	40	–
–	41	SPARE	20	1					0 VA	0 VA	–	–	SPACE	42	–
		Total Connected Load (VA):			5400 VA		6120 VA		5040 VA						
		Total Connected Current (A):			45		51		42						

L (125%) =		H (100%) =		WH (100%) =	
R<10,000(100%) =	10000 VA	Motor-LARGE (125%) =	0 VA	K (65%) =	
R>10,000 (50%) =	2740 VA	Motor-OTHER (100%) =	0 VA	A (100%) =	
RECEPTS TOTAL =	12740 VA	MOTOR TOTAL =		D (100%) =	1080 VA
AW (ESTIMATED DEMAND) =		RW (ESTIMATED DEMAND) =		E (80%) =	
AW (DEMAND FACTOR) =		RW (DEMAND FACTOR) =			

Panel Totals	
Total Conn. Load:	16560 VA
Total Conn. Current:	46 A
Total Demand Load:	13820 VA
Total Demand Current:	38 A

Notes: L = LIGHTING, R = RECEPTACLES, Motor = MOTOR LOADS, H = ELECTRIC HEAT, WH = WATER HEATER, K = KITCHEN EQUIP., A = APPLIANCES, D = DEDICATED LOADS, SF = SUB-FEEDS, E = EQUIP., AW = ARC WELDER, RW = RESISTIVE WELDER

8/15/2019 1:25:26 PM

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REVISIONS DATE

Vancouver School District

FRANKLIN ELEMENTARY SCHOOL ADDITION

1698, 5206 NW Franklin St,
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 08/19/2019

Jurisdiction Stamp Area

BID SET

PANEL SCHEDULES

E6.11

PANEL: 2B1 EXISTING — 3 PH, 4 WIRE — **VOLTAGE:** 208Y/120V — 400A MCB
LOC: ART SUPPLY 157 — **MOUNT:** SURFACE — **FEED:** BOTTOM
TYPE: NEMA 1, Feed-Thru-Lugs — **POLES:** 42 — **SF MAINS:** NO — 4004 AIC MINIMUM

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. P	BRKR AMP	A	B	C	CIR. P	BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
R	1260	RECEPT(7)	1	1	20	5420			2		2	MOBILE HT. CART [41 a]	4160	K
R	1260	RECEPT(6)	3	1	20		5420			50	4	-	4160	K
R	900	RECEPT(5)	5	1	20			5060	2		6	MOBILE HT. CART [41 a]	4160	K
D	720	COMP (2)	7	1	20	4880				50	8	-	4160	K
R	900	RECEPT (5)	9	1	20		1260		1	20	10	MOBILE COLD CART	360	K
D	1080	COMP (3)	11	1	20			1440	1	20	12	MOBILE COLD CART	360	K
D	695	SPARE	13	1	20	1055			1	20	14	P.O.S	360	D
R	900	RECEPT (5)	15	1	20		1260		1	20	16	FLOOR RECEPT (1)	360	R
D	1080	COMP (3)	17	1	20			2256	1	20	18	ADA MOTOR DOOR	1176	MO
R	900	RECEPT (5)	19	1	20	3200			1	30	20	HAND DRYER	2300	D
R	540	RECEPT (3)	21	1	20		2840		1	30	22	HAND DRYER	2300	D
R	720	RECEPT (4)	23	1	20			1220	1	20	24	TRAP PRIMER	500	MO
D	1920	BATTERY CHARGER	25	1	20	2420			1	20	26	SPARE	500	D
D	100	FLOW ALARM	27	1	20		280		1	20	28	I.R. CONTROLS	180	D
R	720	RECEPT (4)	29	1	20			720	1	20	30	SPARE		
D	180	WATER SOFTENER	31	1	20	19559			3		32	2B2 EXISTING	19379	X
D	696	GYM SCREEN	33	1	20		22015				34	-	21319	X
R	1080	RECEPT (6)	35	1	20			20888		125	36	-	19808	X
R	720	RECEPT (4)	37	1	20	21199			3		38	2M2 EXISTING	20479	X
D	360	COMP (1)	39	1	20		17583				40	-	17223	X
		SPARE	41	1	20			15489		225	42	-	15489	X
	16731	TOTAL			THIS PANEL->	57733	50658	47073				TOTAL	138733	
						57733	50658	47073						

LIGHTING(125%) = 625.00
RECEPTS<=10000(100%) = 10000.00
RECEPTS>10000(50%) = 130.00
RECEPTS TOTAL = 10130.00
ELECTRIC HEAT(100%) = 7428.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 41839.00
MOTOR TOTAL = 41839.00
WATER HEATERS(100%) = 5100.00
KITCHEN LOADS(65%) = 50287.90
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 12971.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 155,464.00
TOTAL CONNECTED CURRENT (A): 431.52
TOTAL DEMAND LOAD (VA): 128,380.90
TOTAL DEMAND CURRENT (A) 356.35

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: 2B1 REVISED — 3 PH, 4 WIRE — **VOLTAGE:** 208Y/120V — 400A MCB
LOC: ART SUPPLY 157 — **MOUNT:** SURFACE — **FEED:** BOTTOM
TYPE: NEMA 1, Feed-Thru-Lugs — **POLES:** 42 — **SF MAINS:** NO — 4004 AIC MINIMUM

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. P	BRKR AMP	A	B	C	CIR. P	BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE	
R	1260	RECEPT(7)	1	1	20	5420			2		2	MOBILE HT. CART [41 a]	4160	K	
R	1260	RECEPT(6)	3	1	20		5420			50	4	-	4160	K	
R	900	RECEPT(5)	5	1	20			5060	2		6	MOBILE HT. CART [41 a]	4160	K	
D	720	COMP (2)	7	1	20	4880				50	8	-	4160	K	
R	900	RECEPT (5)	9	1	20		1260		1	20	10	MOBILE COLD CART	360	K	
D	1080	COMP (3)	11	1	20			1440	1	20	12	MOBILE COLD CART	360	K	
D	695	SPARE	13	1	20	1055			1	20	14	P.O.S	360	D	
R	900	RECEPT (5)	15	1	20		1260		1	20	16	FLOOR RECEPT (1)	360	R	
D	1080	COMP (3)	17	1	20			2256	1	20	18	ADA MOTOR DOOR	1176	MO	
R	900	RECEPT (5)	19	1	20	3200			1	30	20	HAND DRYER	2300	D	
R	540	RECEPT (3)	21	1	20		2840		1	30	22	HAND DRYER	2300	D	
R	720	RECEPT (4)	23	1	20			1220	1	20	24	TRAP PRIMER	500	MO	
D	1920	BATTERY CHARGER	25	1	20	2420			1	20	26	SPARE	500	D	
D	100	FLOW ALARM	27	1	20		280		1	20	28	I.R. CONTROLS	180	D	
R	720	RECEPT (4)	29	1	20			720	1	20	30	SPARE			
D	180	WATER SOFTENER	31	1	20	19559			3		32	2B2	19379	X	
D	696	GYM SCREEN	33	1	20		22015				34	-	21319	X	
R	1080	RECEPT (6)	35	1	20			20888		125	36	-	19808	X	
R	720	RECEPT (4)	37	1	20	22963			3		38	**2M2 REVISED**	**22243**	X	(1)
D	360	COMP (1)	39	1	20		19347				40	-	**18987**	X	(1)
		SPARE	41	1	20			17253		225	42	-	**17253**	X	(1)
	16731	TOTAL			THIS PANEL->	59497	52422	48837				TOTAL	144025		
						59497	52422	48837							

LIGHTING(125%) = 625.00
RECEPTS<=10000(100%) = 10000.00
RECEPTS>10000(50%) = 130.00
RECEPTS TOTAL = 10130.00
ELECTRIC HEAT(100%) = 7428.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 47131.00
MOTOR TOTAL = 47131.00
WATER HEATERS(100%) = 5100.00
KITCHEN LOADS(65%) = 50287.90
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 12971.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 160,756.00
TOTAL CONNECTED CURRENT (A): 446.21
TOTAL DEMAND LOAD (VA): 133,672.90
TOTAL DEMAND CURRENT (A) 371.04

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: 2B2 EXISTING — 3 PH, 4 WIRE — **VOLTAGE:** 208Y/120V — 125A MLO
LOC: KITCHEN 163 — **MOUNT:** SURFACE — **FEED:** BOTTOM
TYPE: NEMA 1 — **POLES:** 42 — **SF MAINS:** NO — 1254 AIC MINIMUM

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. P	BRKR AMP	A	B	C	CIR. P	BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
K	1440	WASHER [11 a]	1	1	20	2480			3		2	GARBAGE DISP. [29 a]	1040	K
K	4000	DRYER [11 b]	3	2			5040				4	-	1040	K
K	4000	-	5		50			5040		20	6	-	1040	K
K	840	COLD CART [13]	7	1	20	1880			3		8	GARBAGE DISP. [29 b]	1040	K
K	960	HOT CART [14 a]	9	1	20		2000				10	-	1040	K
K	960	HOT CART [14 b]	11	1	20			2000		20	12	-	1040	K
K	1331	ICE MAKER [16]	13	2		4199			3		14	DISHWASHER [35 a]	2868	K
K	1331	-	15		20		4199				16	-	2868	K
K	852	OVEN [17 a1]	17	1	20			3720		30	18	-	2868	K
K	852	OVEN [17 a2]	19	1	20	3372			3		20	FREEZER COMP. [3]	2520	K
K	852	OVEN [17 b1]	21	1	20		3372				22	-	2520	K
K	852	OVEN [17 b2]	23	1	20			3372		30	24	-	2520	K
K	600	BRAISING PAN [19]	25	1	20	1324			2		26	FREEZER EVAP. [4]	724	K
K	360	STEAM KETTLE [21]	27	1	20		1084			20	28	-	724	K
		SPARE	29	1	20			1800	3		30	COOLER. COMP. [5]	1800	K
L	500	HOOD LTG/FIRE SUPP	31	1	20	2300					32	-	1800	K
K	3324	O/W BOOSTER [35b]	33	3			5124			20	34	-	1800	K
K	3324	-	35					3876	1	20	36	COOLER EVAP. [6]	552	K
K	3324	-	37		50	3824			1	20	38	FREEZER [1]	500	K
		SPARE	39	1	20		500		1	20	40	COOLER [2]	500	K
		SPARE	41	1	20				1	20	42	SPARE		
	29702	TOTAL			THIS PANEL->	19379	21319	19808				TOTAL	30804	
						19379	21319	19808						

LIGHTING(125%) = 625.00
RECEPTS<=10000(100%) = 0.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 0.00
ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 0.00
MOTOR TOTAL = 0.00
WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 39003.90
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 0.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 60,506.00
TOTAL CONNECTED CURRENT (A): 167.95
TOTAL DEMAND LOAD (VA): 39,628.90
TOTAL DEMAND CURRENT (A) 110.00

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

CONSTRUCTION NOTES

(1) NO NEW WORK SEE 2M2 PANEL SCHEDULES ON SHEET E6.13.

8/15/2019 1:25:27 PM

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ONE INCH
AT FULL SIZE

MICHAEL L. COZART — STATE OF WASHINGTON — 34306 — REGISTERED PROFESSIONAL ENGINEER
8/15/2019

REVISIONS DATE

Vancouver School District
FRANKLIN ELEMENTARY SCHOOL ADDITION
1698, 5206 NW Franklin St,
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 08/19/2019
Jurisdiction Stamp Area

BID SET

PANEL SCHEDULES

E6.12

PANEL: 2M2 EXISTING — **3 PH** — **4 WIRE** — **VOLTAGE: 208Y/120V** — **225A MCB**
LOC: ART SUPPLY 157 — **MOUNT: SURFACE** — **FEED: BOTTOM**
TYPE: NEMA 1 — **POLES: 42** — **SF MAINS: NO** — **2254 AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE	
MO	1320	IRRIG. PUMP (3 HP)	1	3		2712			1	20	2	EF - 16,17	1392	MO	
MO	1320	-	3				2256		3		4	EF - 18	936	MO	
MO	1320	-	5		25			2256			6	-	936	MO	
MO	5110	FC-22	7	3		6046				20	8	-	936	MO	
MO	5110	-	9				5974		1	20	10	EF - 19	864	MO	
MO	5110	-	11		60			5190	1	20	12	EF - 22	80	MO	
ML	5243	FC-21	13	3		7871			1	45	14	MUA - 1	2628	H	
ML	5243	-	15				5243		1	20	16	SPARE			(1)
ML	5243	-	17		60			5243	1	20	18	SPARE			(1)
WH	600	WH-2	19	1	20	600			1	20	20	SPARE			(1)
D	500	IRRIG. HEATER	21	1	20		500		1	20	22	SPARE			
H	2000	UH-1	23	1	30			2000	1	20	24	SPARE			
H	1000	UH-2	25	1	20	1000			1	20	26	SPARE			
H	1000	UH-3	27	1	20		1000		1	20	28	SPARE			
H	800	F-1	29	1	20			800	1	20	30	SPARE			
WH	2250	WH-3	31	2		2250					32	SPACE			
WH	2250	-	33		30		2250				34	SPACE			
		SPARE	35	1	20						36	SPACE			
		SPARE	37	1	20						38	SPACE			
		SPARE	39	1	20						40	SPACE			
		SPARE	41	1	20						42	SPACE			
	45419	**TOTAL**			THIS PANEL->	20479	17223	15489				TOTAL	7772		
						20479	17223	15489							

LIGHTING(125%) = 0.00
RECEPTS<=10000(100%) = 0.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 0.00
ELECTRIC HEAT(100%) = 7428.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 40163.00
MOTOR TOTAL = 40163.00
WATER HEATERS(100%) = 5100.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 500.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 53,191.00
TOTAL CONNECTED CURRENT (A): 147.64
TOTAL DEMAND LOAD (VA): 53,191.00
TOTAL DEMAND CURRENT (A) 147.64

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: 2M2 REVISED — **3 PH** — **4 WIRE** — **VOLTAGE: 208Y/120V** — **225A MCB**
LOC: ART SUPPLY 157 — **MOUNT: SURFACE** — **FEED: BOTTOM**
TYPE: NEMA 1 — **POLES: 42** — **SF MAINS: NO** — **2254 AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
MO	1320	IRRIG. PUMP (3 HP)	1	3		2712			1	20	2	EF - 16,17	1392	MO
MO	1320	-	3				2256		3		4	EF - 18	936	MO
MO	1320	-	5		25			2256			6	-	936	MO
MO	5110	FC-22	7	3		6046				20	8	-	936	MO
MO	5110	-	9				5974		1	20	10	EF - 19	864	MO
MO	5110	-	11		60			5190	1	20	12	EF - 22	80	MO
ML	5243	FC-21	13	3		7871			1	45	14	MUA - 1	2628	H
ML	5243	-	15				7007		**3**		16	**BP-1A, BP-1B**	**1764**	MO
ML	5243	-	17		60			7007			18	-	**1764**	MO
WH	600	WH-2	19	1	20	2364				**20**	20	-	**1764**	MO
D	500	IRRIG. HEATER	21	1	20		500		1	20	22	SPARE		
H	2000	UH-1	23	1	30			2000	1	20	24	SPARE		
H	1000	UH-2	25	1	20	1000			1	20	26	SPARE		
H	1000	UH-3	27	1	20		1000		1	20	28	SPARE		
H	800	F-1	29	1	20			800	1	20	30	SPARE		
WH	2250	WH-3	31	2		2250					32	SPACE		
WH	2250	-	33		30		2250				34	SPACE		
		SPARE	35	1	20						36	SPACE		
		SPARE	37	1	20						38	SPACE		
		SPARE	39	1	20						40	SPACE		
		SPARE	41	1	20						42	SPACE		
	45419	**TOTAL**			THIS PANEL->	22243	18987	17253				TOTAL	13064	
						22243	18987	17253						

LIGHTING(125%) = 0.00
RECEPTS<=10000(100%) = 0.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 0.00
ELECTRIC HEAT(100%) = 7428.00
LARGEST MOTOR(125%) = 0.00
OTHER MOTORS(100%) = 45455.00
MOTOR TOTAL = 45455.00
WATER HEATERS(100%) = 5100.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 500.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 58,483.00
TOTAL CONNECTED CURRENT (A): 162.33
TOTAL DEMAND LOAD (VA): 58,483.00
TOTAL DEMAND CURRENT (A) 162.33

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: 4C1 EXISTING — **3 PH** — **4 WIRE** — **VOLTAGE: 480Y/277V** — **225A MLO**
LOC: ATTIC SECTOR © — **MOUNT: SURFACE** — **FEED: BOTTOM**
TYPE: NEMA 1 — **POLES: 42** — **SF MAINS: NO** — **2254 AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE	
MO	3873	P-2	1	3		4451			1	20	2	EXT BUILDING LIGHT	578	L	
MO	3873	-	3				7392		1	20	4	LIGHTING	3519	L	
MO	3873	-	5		30			5605	1	20	6	LIGHTING	1732	L	
MO	3071	P-3	7	3		4178			1	20	8	LIGHTING	1107	L	
MO	3071	-	9				5019		1	20	10	LIGHTING	1948	L	
MO	3071	-	11		30			6047	1	20	12	LIGHTING	2976	L	
MO	3071	P-1	13	3		6047			1	20	14	LIGHTING	2976	L	
MO	3071	-	15				4950		1	20	16	LIGHTING	1879	L	
MO	3071	-	17		30			3071	1	20	18	SPARE			
		SPARE	19	1	20	882			1	20	20	EXT BUILDING LIGHT	882	L	
			21	1	20		504		1	20	22	EXT BUILDING LIGHT	504	L	
		SPARE	23	1	20			1674	1	20	24	EXT BUILDING LIGHT	1674	L	
		SPACE	25			2760			1	20	26	LIGHTING - SITE	2760	L	
		SPACE	27				3155		1	20	28	LIGHTING - SITE	3155	L	
		SPACE	29					1638	1	20	30	EXT BUILDING LIGHT	1638	L	
		SPACE	31						1	20	32	SPARE			(2)
		SPACE	33						1	20	34	SPARE			(2)
		SPACE	35						1	20	36	SPARE			
X	17618	4A1	37	3		17618					38	SPACE			
X	21716	-	39				21716				40	SPACE			
X	23676	-	41		125			23676			42	SPACE			
	93055	**TOTAL**			THIS PANEL->	35936	42736	41711				TOTAL	27328		
						35936	42736	41711							

LIGHTING(125%) = 68308.75
RECEPTS<=10000(100%) = 0.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 0.00
ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 14523.75
OTHER MOTORS(100%) = 54117.00
MOTOR TOTAL = 68640.75
WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 0.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 120,383.00
TOTAL CONNECTED CURRENT (A): 144.80
TOTAL DEMAND LOAD (VA): 136,949.50
TOTAL DEMAND CURRENT (A) 164.72

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: 4C1 REVISED — **3 PH** — **4 WIRE** — **VOLTAGE: 480Y/277V** — **225A MLO**
LOC: — **MOUNT: SURFACE** — **FEED: BOTTOM**
TYPE: NEMA 1 — **POLES: 42** — **SF MAINS: NO** — **AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
MO	**3718**	**P-2**	1	**3**		4296			1	20	2	EXT BUILDING LIGHT	578	L
MO	**3718**	**-**	3				7237		1	20	4	LIGHTING	3519	L
MO	**3719**	**-**	5		**40**			5451	1	20	6	LIGHTING	1732	L
MO	3718	**P-3**	7	**3**		4825			1	20	8	LIGHTING	1107	L
MO	3718	**-**	9				5666		1	20	10	LIGHTING	1948	L
MO	3719	**-**	11		**40**			6695	1	20	12	LIGHTING	2976	L
MO	3071	P-1	13	3		6047			1	20	14	LIGHTING	2976	L
MO	3071	-	15				4950		1	20	16	LIGHTING	1879	L
MO	3071	-	17		30			3071	1	20	18	SPARE		
MO	1223	**BCP-1, 2, 3**	19	**3**		2105			1	20	20	EXT BUILDING LIGHT	882	L
MO	1223	**-**	21				1727		1	20	22	EXT BUILDING LIGHT	504	L
MO	1224	**-**	23		**20**			2898	1	20	24	EXT BUILDING LIGHT	1674	L
		SPACE	25			2760			1	20	26	LIGHTING - SITE	2760	L
		SPACE	27				3155		1	20	28	LIGHTING - SITE	3155	L
		SPACE	29					1638	1	20	30	EXT BUILDING LIGHT	1638	L
		SPACE	31			120			1	20	32	**CP-1,2**	120	MO
		SPACE	33				660		1	20	34	**B-3**	660	MO
		SPACE	35						1	20	36	SPARE		
X	17618	4A1	37	3		17618					38	SPACE		
X	21716	-	39				21716				40	SPACE		
X	23676	-	41		125			23676			42	SPACE		
	98203	**TOTAL**			THIS PANEL->	37771	45111	43429				TOTAL	28108	
						37771	45111	43429						

LIGHTING(125%) = 68308.75
RECEPTS<=10000(100%) = 0.00
RECEPTS>10000(50%) = 0.00
RECEPTS TOTAL = 0.00
ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 14523.75
OTHER MOTORS(100%) = 60045.00
MOTOR TOTAL = 74568.75
WATER HEATERS(100%) = 0.00
KITCHEN LOADS(65%) = 0.00
APPLIANCES(100%) = 0.00
DEDICATED(100%) = 0.00
MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 126,311.00
TOTAL CONNECTED CURRENT (A): 151.93
TOTAL DEMAND LOAD (VA): 142,877.50
TOTAL DEMAND CURRENT (A) 171.85

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

CONSTRUCTION NOTES

(1) REMOVE AND RETAIN EXISTING SPARE CIRCUIT BREAKER. SEE REVISED 2M2 PANEL SCHEDULE ON THIS SHEET.

(2) CIRCUIT BREAKER TO BE REMOVED OR REVISED. SEE REVISED '4C1' PANEL SCHEDULE ON THIS SHEET.

8/15/2019 1:25:29 PM

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ISSUE DATE: 08/19/2019

Jurisdiction Stamp Area

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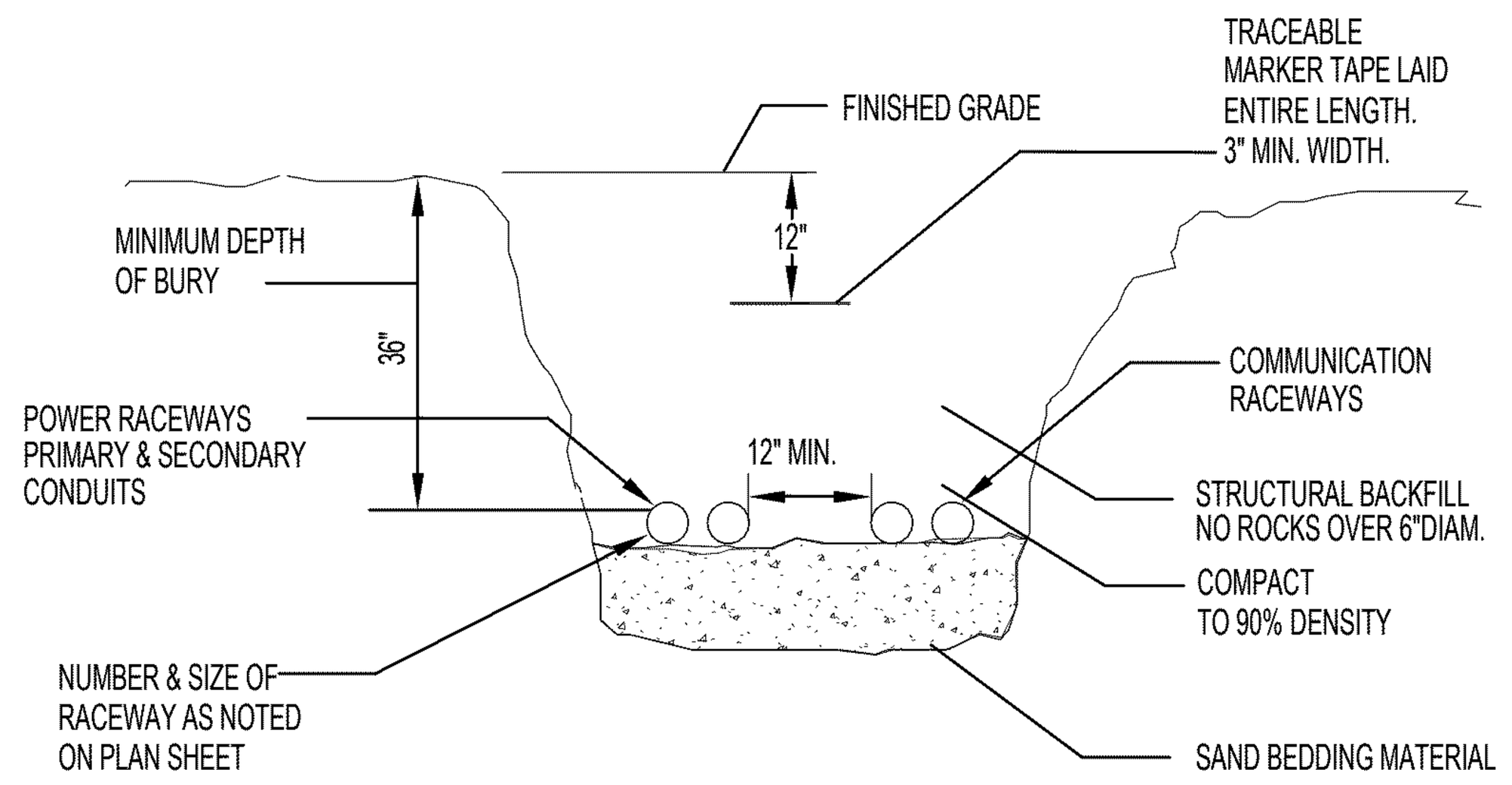
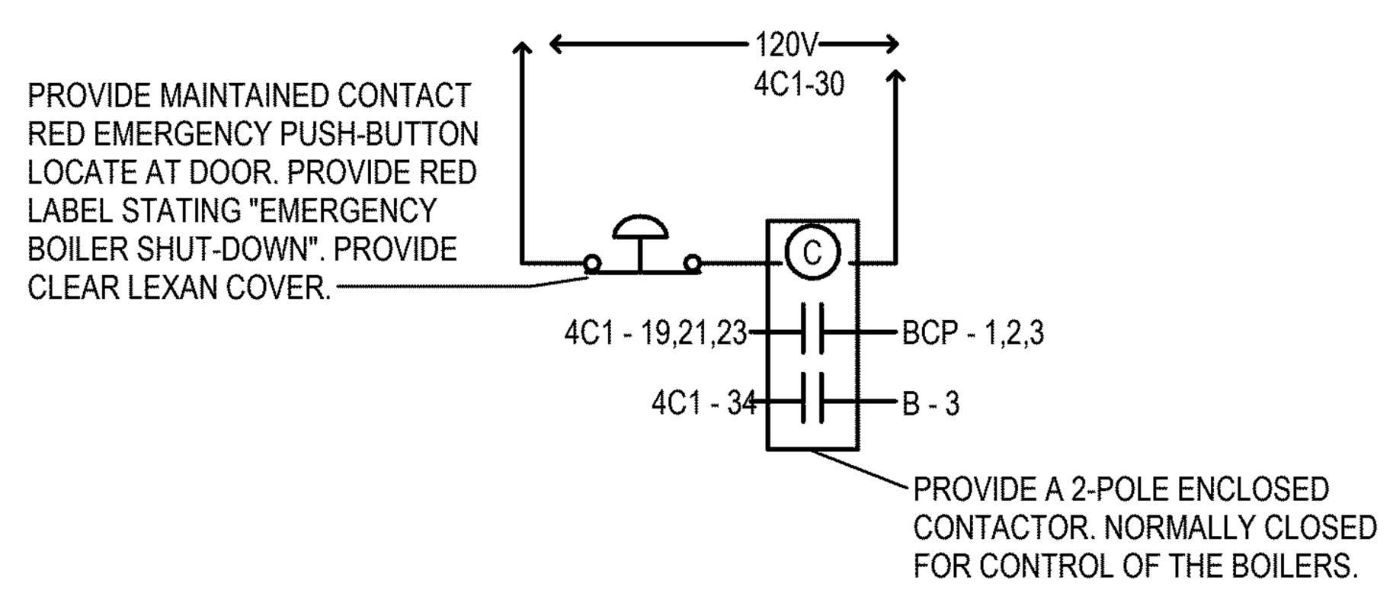
PANEL SCHEDULES

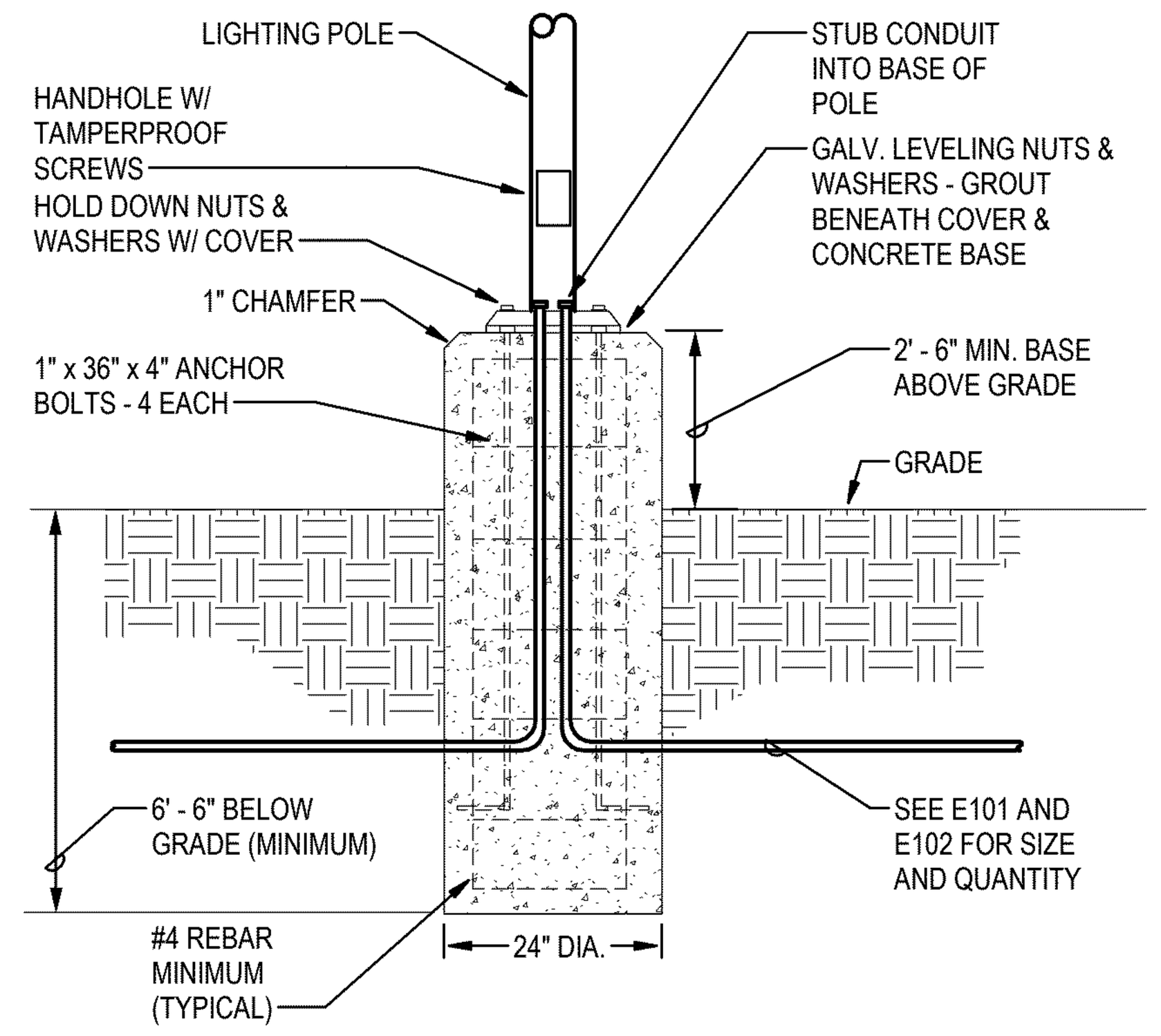
E6.13



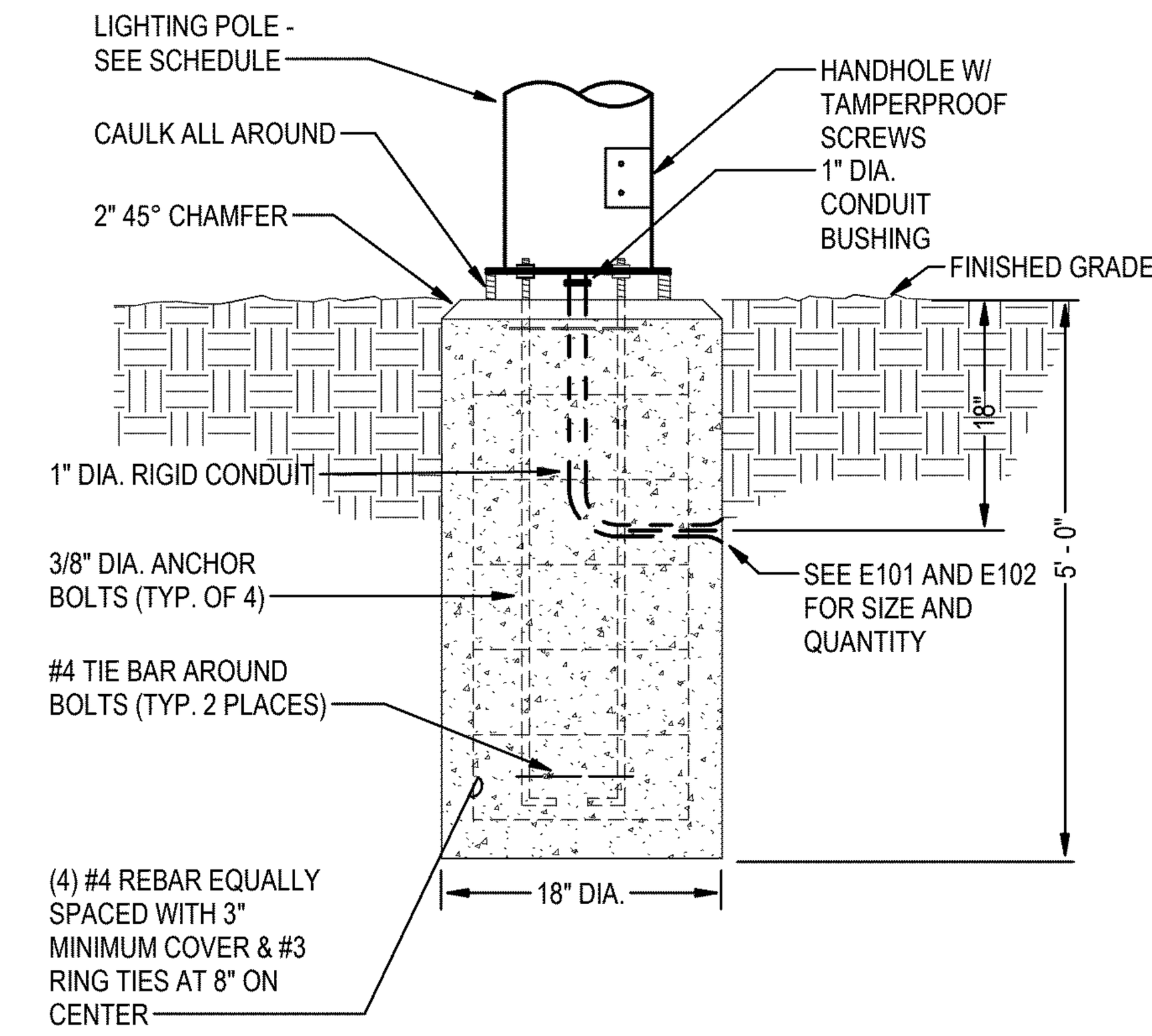
1 DIRECT BURIAL MULTI-RACEWAY DETAIL
DIAGRAMMATIC



2 BOILER SHUT OFF DIAGRAM
DIAGRAMMATIC



3 POLE BASE DETAIL - AL1
DIAGRAMMATIC



4 FLUSH CONCRETE POLE BASE - AL2
DIAGRAMMATIC

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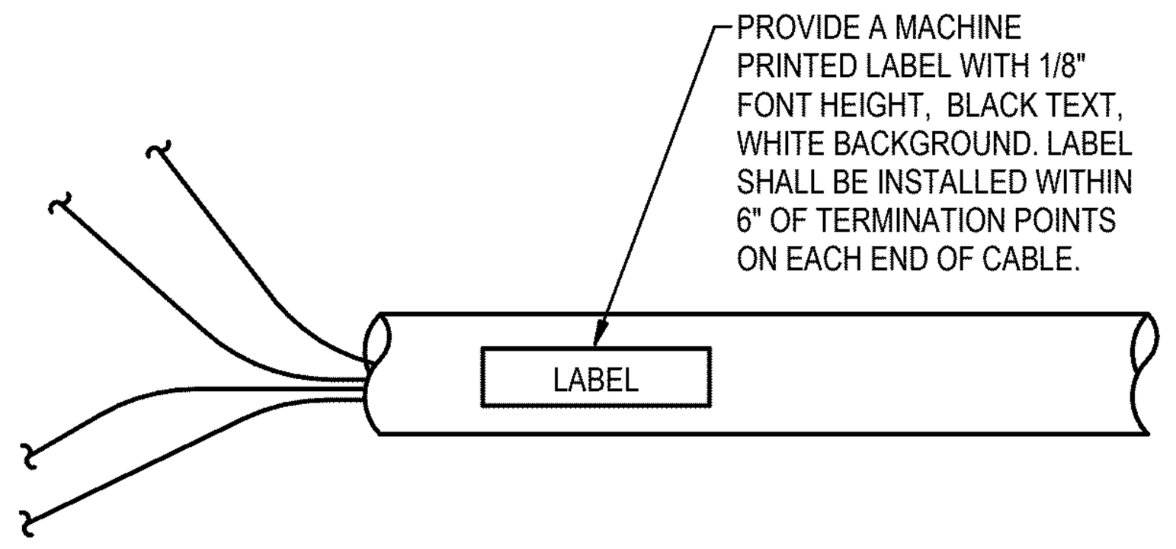
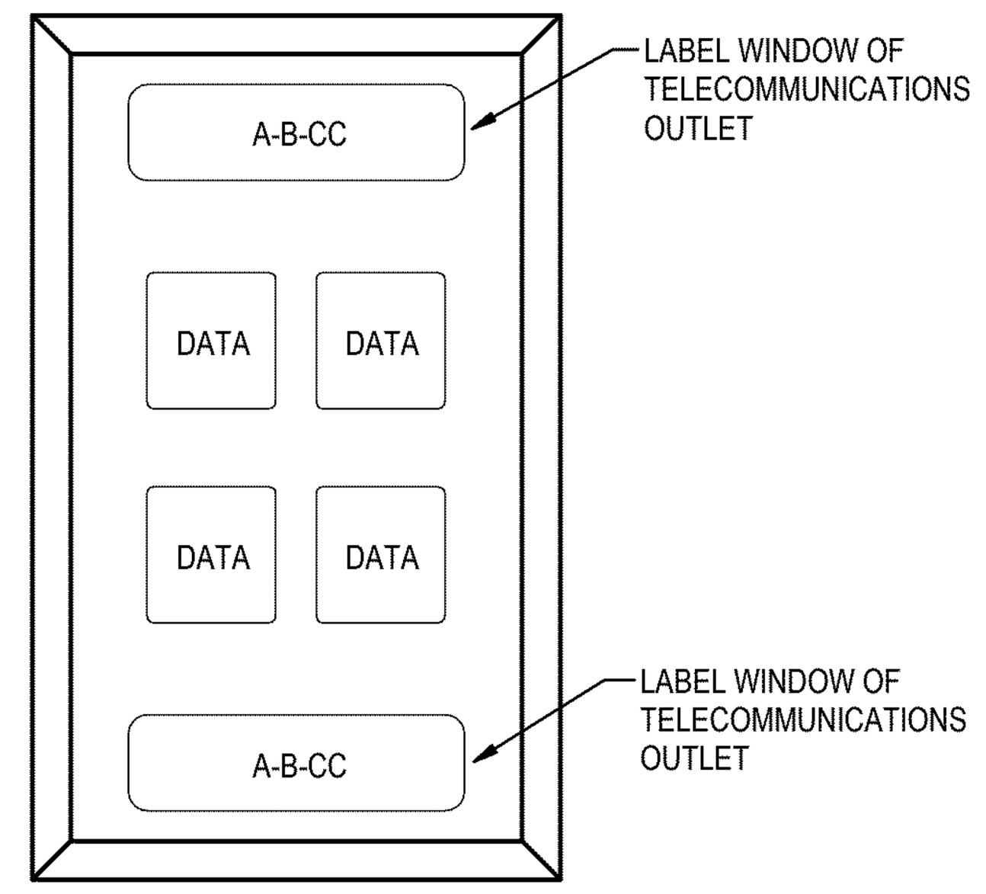
ELECTRICAL DETAILS

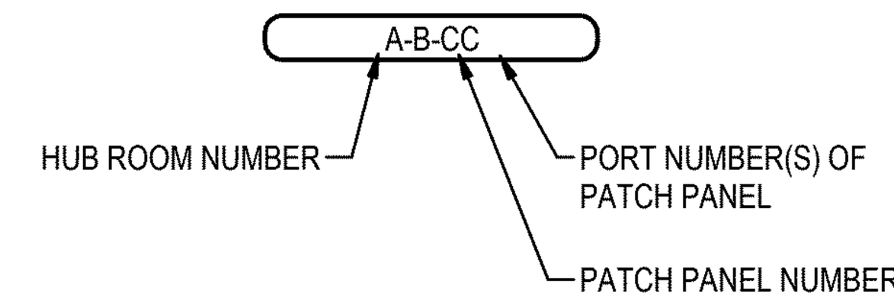
E7.01



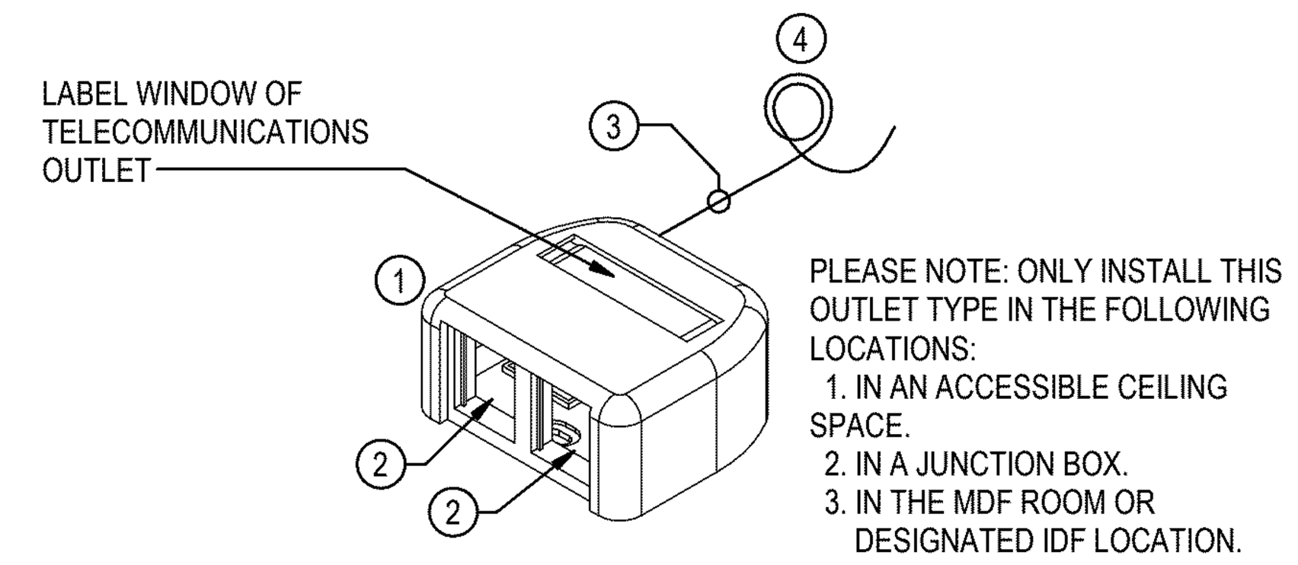
1 TYPICAL HORIZONTAL CABLE LABELING
NTS



2 TYPICAL TELECOMM OUTLET LABELING
NTS



3 TELECOMMUICATIONS OUTLET LABEL IDENTIFICATION FORMAT
NTS



PLEASE NOTE: ONLY INSTALL THIS OUTLET TYPE IN THE FOLLOWING LOCATIONS:
1. IN AN ACCESSIBLE CEILING SPACE.
2. IN A JUNCTION BOX.
3. IN THE MDF ROOM OR DESIGNATED IDF LOCATION.

CONSTRUCTION NOTES

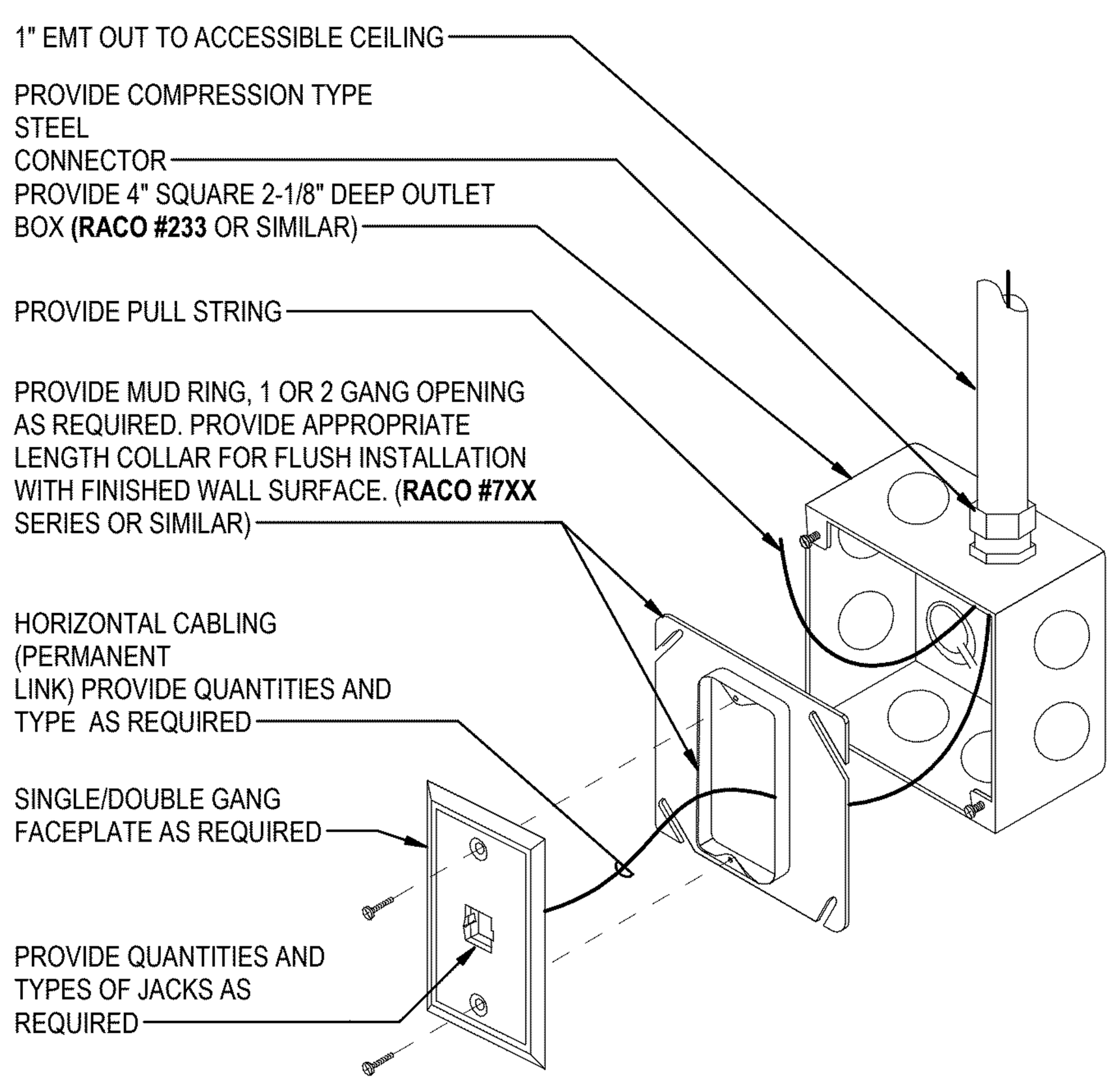
1 PROVIDE TELECOMMUNICATIONS OUTLET TYPE, STYLE, AND COLOR AS SPECIFIED.

2 PROVIDE MODULAR PORT COLOR AS SPECIFIED.

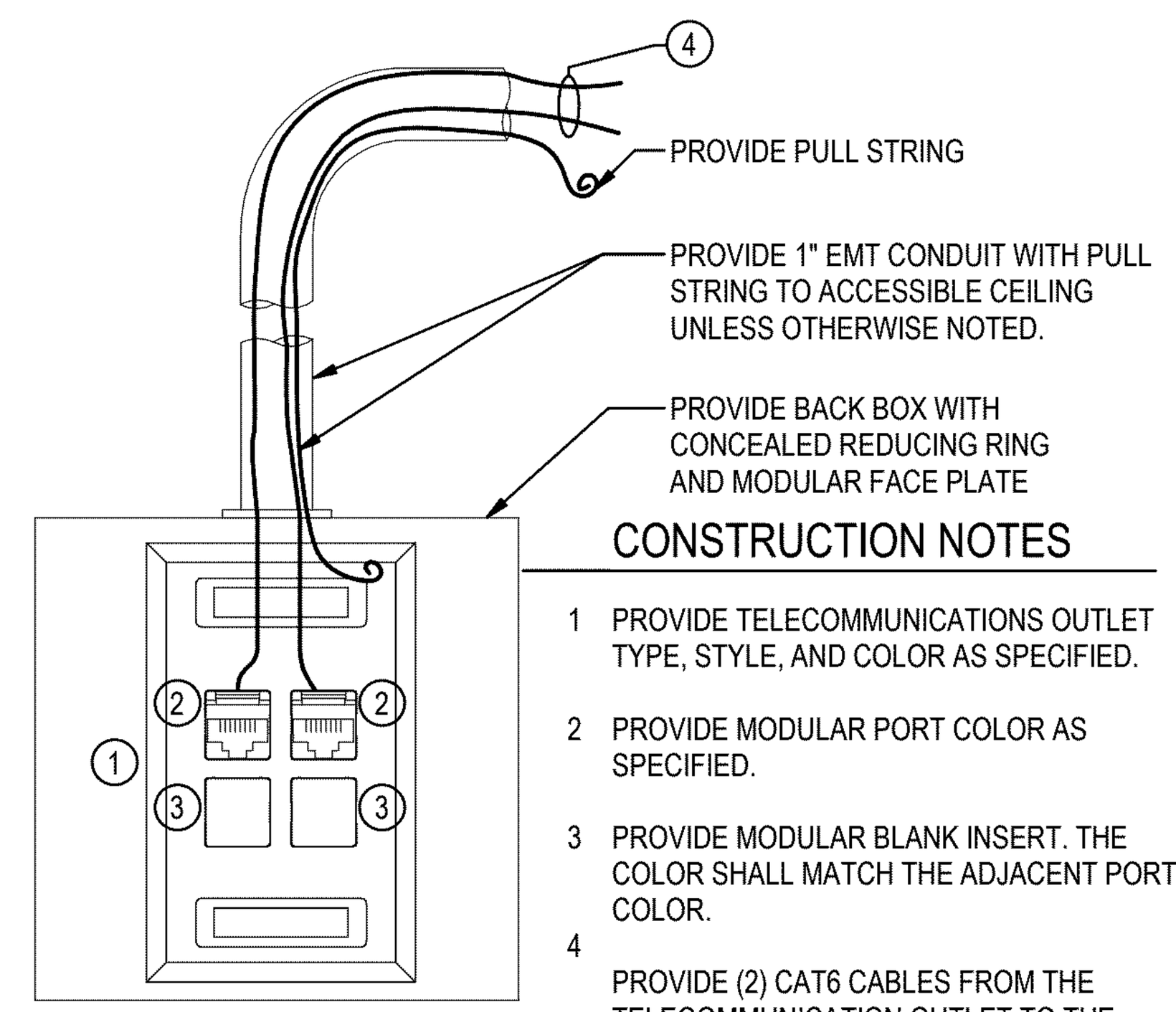
3 PROVIDE (2) CAT6A CABLES FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATIONS ROOM. PROVIDE THE CAT6 CABLE COLOR AS SPECIFIED.

4 PROVIDE A 25 FOOT SERVICE LOOP IN THE ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE NOTED.

4 TYPICAL TELECOMMUNICATIONS OUTLET (ACCESSIBLE CEILING SPACE)
NTS



5 TELECOMMUNICATIONS OUTLET INSTALLATION DETAIL (4/S")
NTS



CONSTRUCTION NOTES

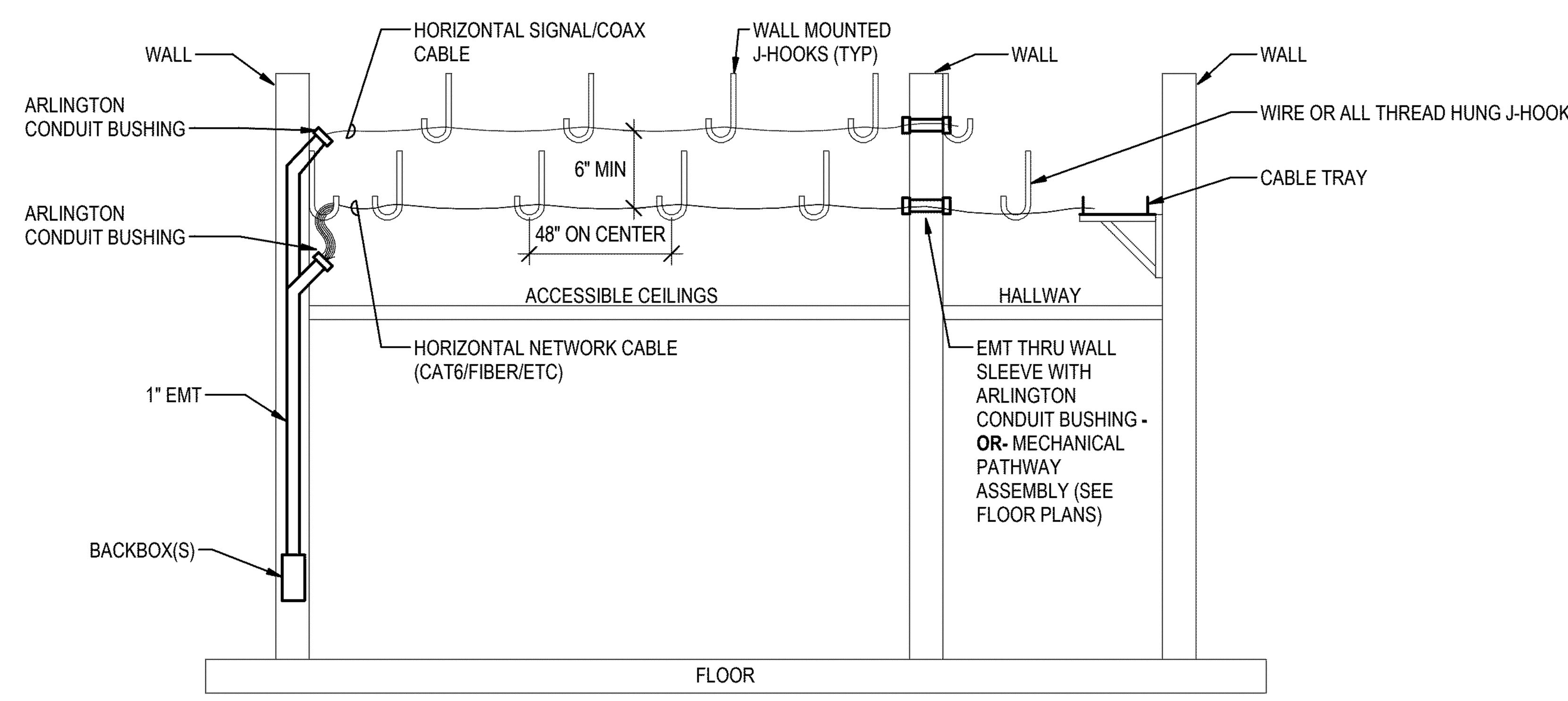
1 PROVIDE TELECOMMUNICATIONS OUTLET TYPE, STYLE, AND COLOR AS SPECIFIED.

2 PROVIDE MODULAR PORT COLOR AS SPECIFIED.

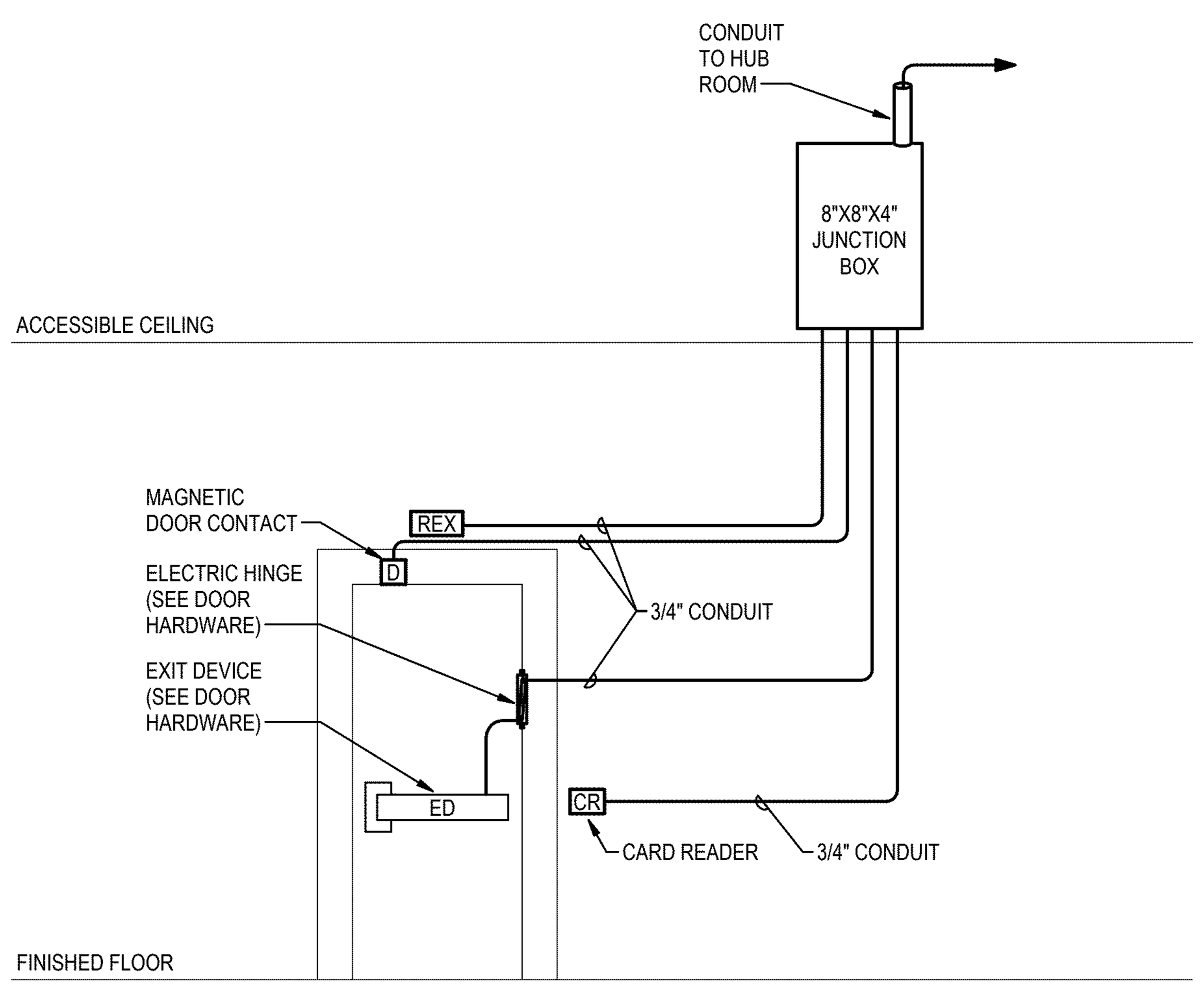
3 PROVIDE MODULAR BLANK INSERT. THE COLOR SHALL MATCH THE ADJACENT PORT COLOR.

4 PROVIDE (2) CAT6 CABLES FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATIONS ROOM. PROVIDE THE CAT6 CABLE COLOR AS SPECIFIED.

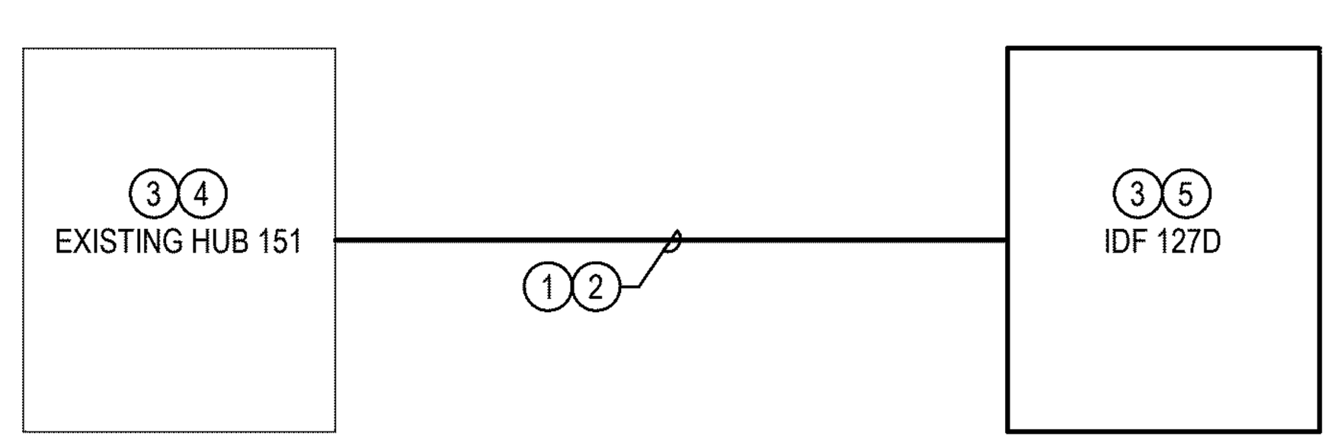
6 TYPICAL TELECOMMUNICATIONS OUTLET (2-PORT)
NTS



7 J-HOOK AND CABLE TRAY SECTION DETAIL
NTS



8 ACCESS CONTROL DOOR HARDWARE FOR ROUGH IN
NTS



RISER DIAGRAM CONSTRUCTION NOTES

1 PROVIDE (1) 6-STRAND OS1 SINGLE MODE FOC. TERMINATE BOTH ENDS WITH LC STYLE CONNECTORS.

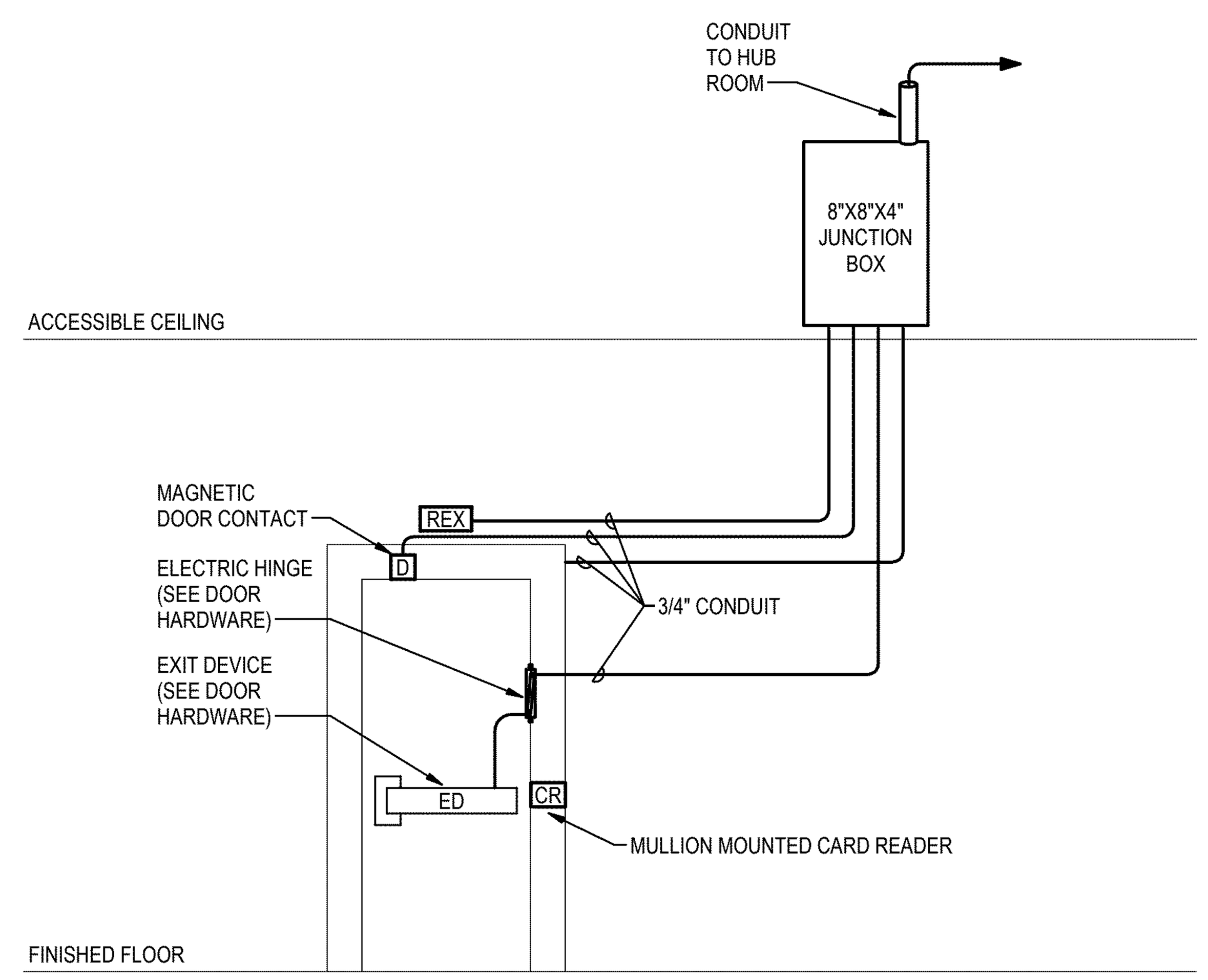
2 PROVIDE (3) CAT 6 CABLES FOR ANALOG PHONES, TERMINATE (1) PAIR PER PATCH PANEL PORT IN HUB ROOM 151 AND IDF 127D.

3 PROVIDE NEW PATCH PANELS.

4 PROVIDE NEW RACK-MOUNT 1RU FIBER LIU FOR NEW FOC.

5 PROVIDE NEW WALL-MOUNT FIBER LIU. SEE E4.01 DETAIL # 5 FOR ADDITIONAL INFORMATION.

9 TELECOMMUNICATIONS RISER DIAGRAM
NTS



10 ACCESS CONTROL DOOR HARDWARE FOR ROUGH IN - STOREFRONT MULLION
NTS

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1698, 5206 NW Franklin St, Vancouver, WA 98663

JOB NO: 1806
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Jurisdiction Stamp Area

BID SET

SYSTEMS DETAILS

E7.02

GENERAL NOTES

1. THESE PLANS DELINEATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIAL. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREAS AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS THERE ON; AND SHALL NOT RELY SOLELY ON REVIEW OF THE BIDDING DOCUMENTS IN DETERMINING THE EXTENT OF DEMOLITION WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL PROVIDE CLARITY SKETCHES, DIAGRAMS, AND FIELD DIMENSIONS OF EXISTING CONDITIONS AT THE REQUEST OF THE ENGINEER IF/WHEN CONFLICTS ARE IDENTIFIED.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH NECESSARY DEMOLITION TO ALLOW NEW CONSTRUCTION SHOWN IN CONTRACT DOCUMENTS. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL REMOVE ALL EXISTING RECEPTACLES, LIGHTING FIXTURES, DEVICES, ABANDONED RACEWAYS, CONDUCTORS, TOGETHER WITH ANY AUXILIARY ITEMS TO ALLOW NEW CONSTRUCTION AND FINISH TO OCCUR AS COMPLEMENTED BY THE CONTRACT DOCUMENTS. DASHED LINES INDICATE EXISTING DEVICES AND EQUIPMENT TO BE REMOVED.

3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR ALL CUTTING, PATCHING AND FINISH WORK.

4. ELECTRICAL CONTRACTOR SHALL REMOVE ELECTRICAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT TO BE DEMOLISHED. ELECTRICAL CONTRACTOR SHALL CHECK MECHANICAL DEMOLITION PLANS FOR UNIT LOCATIONS. ALL CONDUIT THROUGH ROOF AND ACCESSIBLE CONDUIT SHALL BE REMOVED.

5. FOR THIS SHEET ONLY, UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE ALL DEVICES INDICATED. MAINTAIN CONTINUITY OF ALL REMAINING DEVICES & EQUIPMENT. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE TO EXTEND EXISTING CIRCUITS AS REQUIRED.

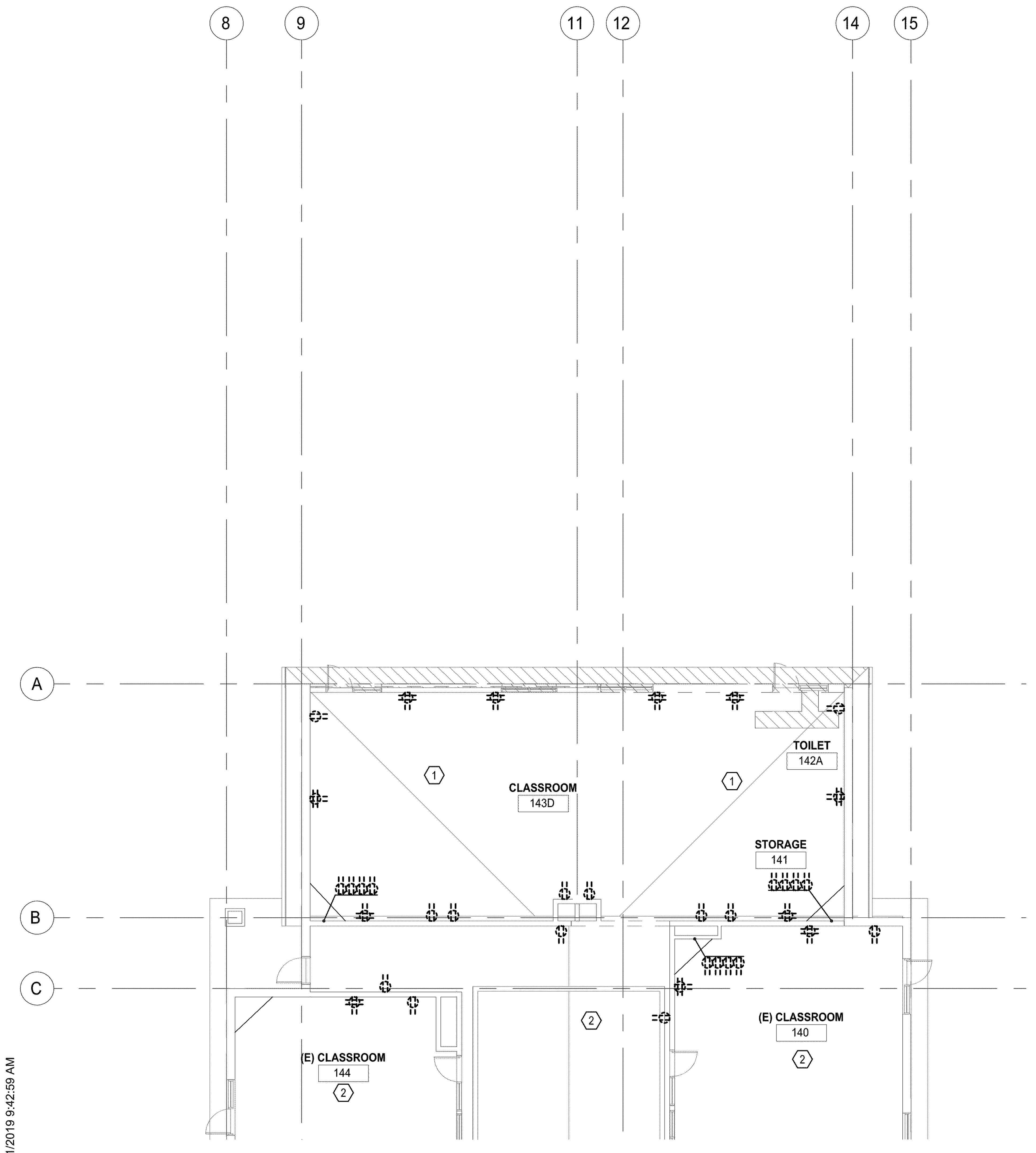
6. ALL EXISTING SECURITY SYSTEM DEVICES MUST BE KEPT INTACT AND OPERATIONAL. ALL DEVICES THAT REQUIRE RELOCATION TO FACILITATE NEW WORK MUST BE RE-ROUTED AND RECONNECTED TO MAINTAIN OPERATION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MOVE, STORE AND PROTECT ALL EQUIPMENT THAT IS TO BE RETAINED.

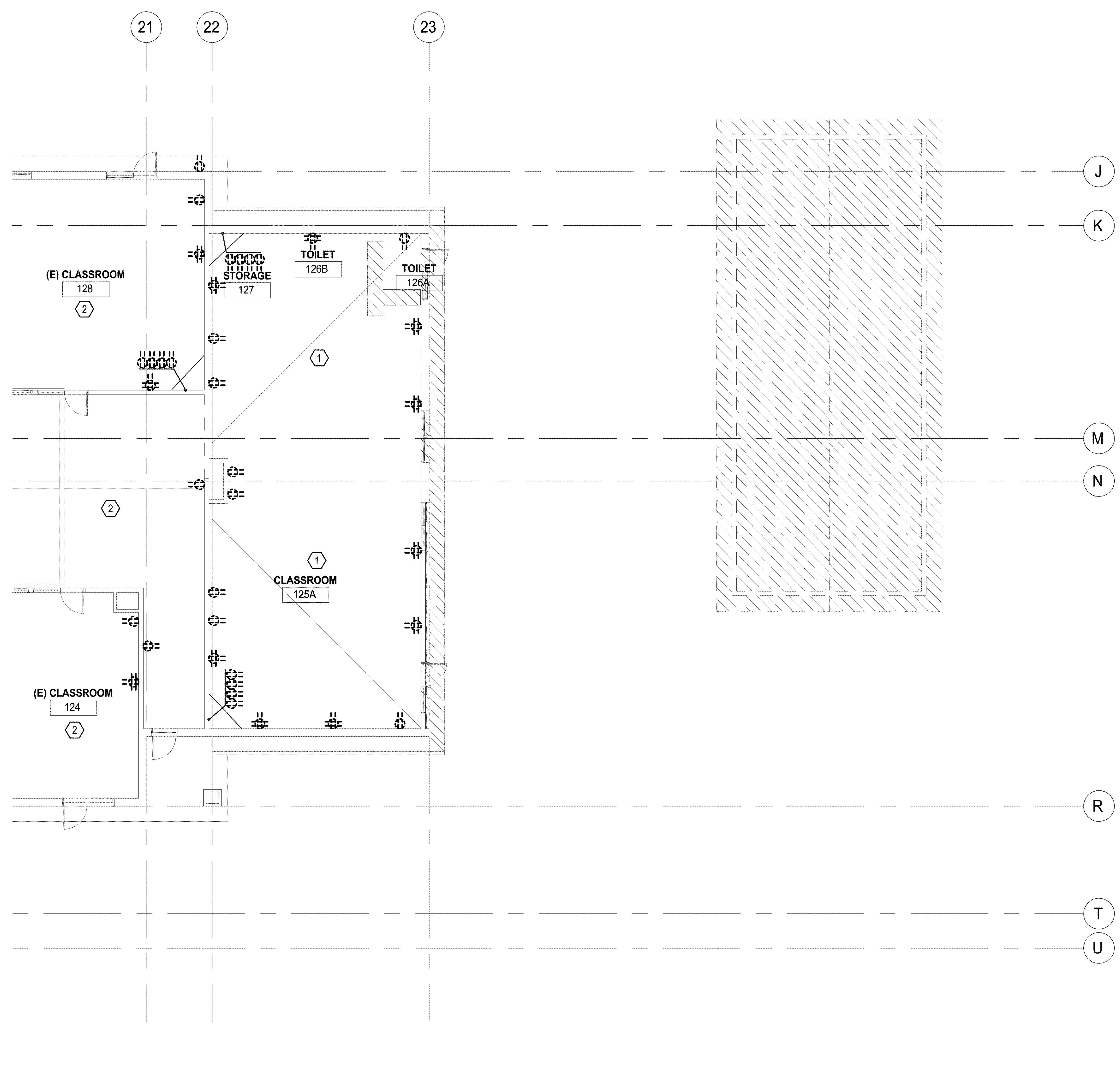
8. SEE SHEET E1.01 AND E6.01 FOR MORE INFORMATION.

DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL EXISTING LIGHTING FIXTURES WITHIN THIS SPACE.
2. EXISTING LIGHTING FIXTURES TO REMAIN.



2 FIRST FLOOR POWER DEMOLITION PLAN - WEST
1/8" = 1'-0"



1 FIRST FLOOR POWER DEMOLITION PLAN - NORTH
1/8" = 1'-0"

2/1/2019 9:42:59 AM

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MICHAEL L. COZART
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34306
REGISTERED
PROFESSIONAL ENGINEER
8/15/2019

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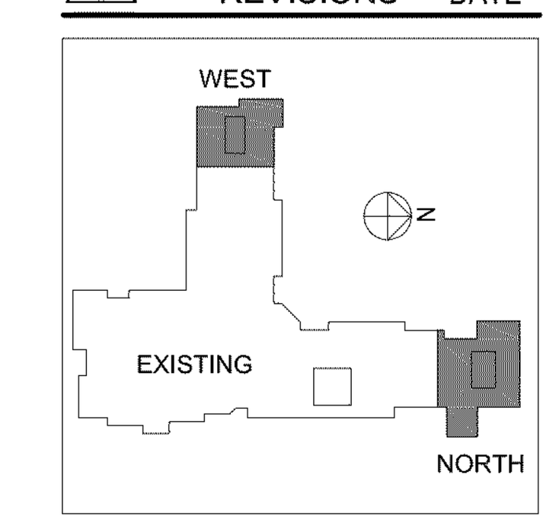

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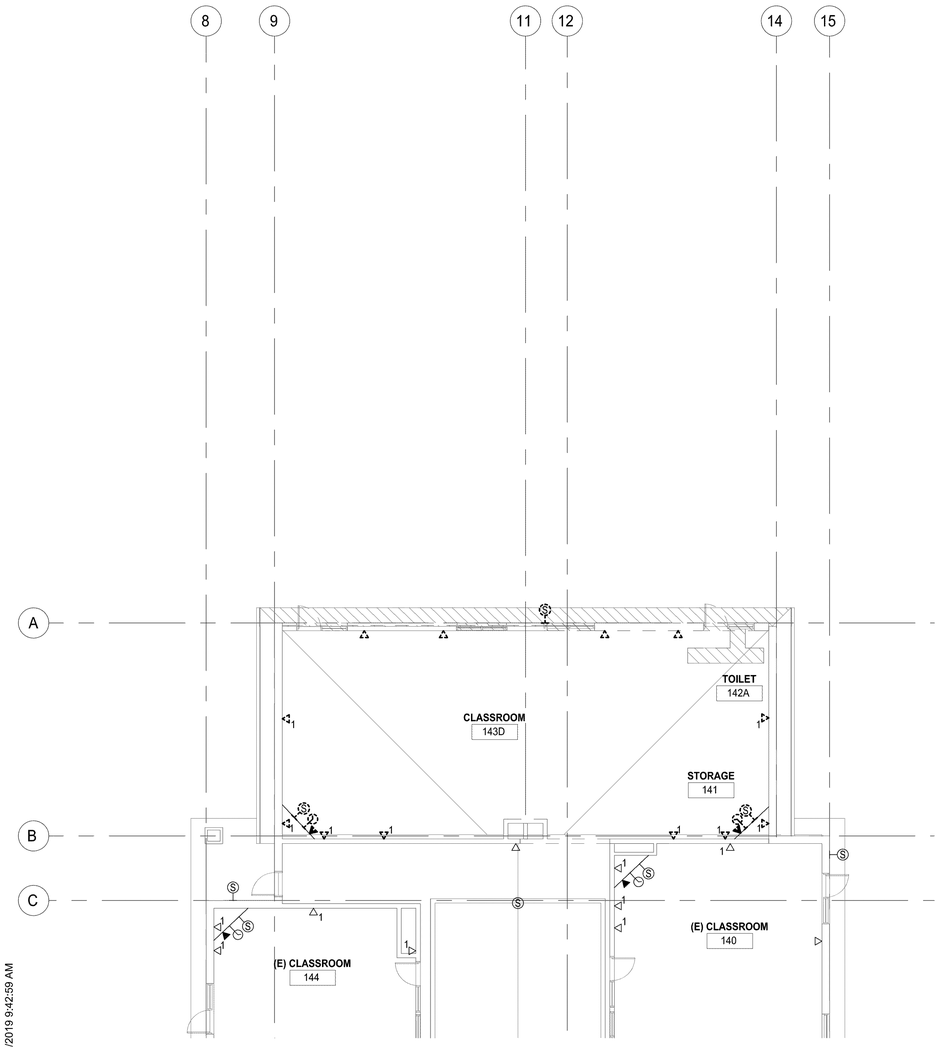
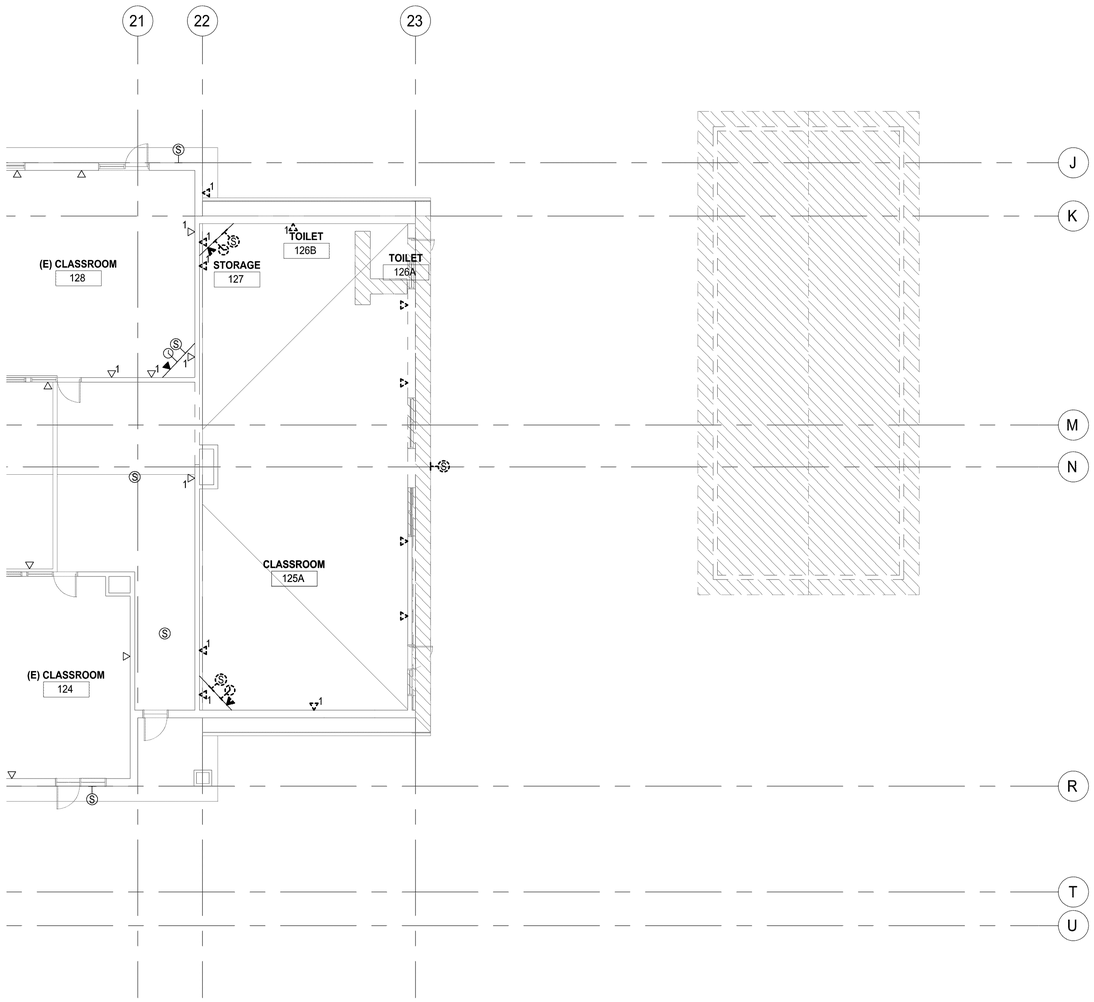
POWER DEMOLITION FLOOR PLANS

ED3.01



2 FIRST FLOOR SYSTEMS DEMOLITION PLAN - WEST
1/8" = 1'-0"



1 FIRST FLOOR SYSTEMS DEMOLITION PLAN - NORTH
1/8" = 1'-0"

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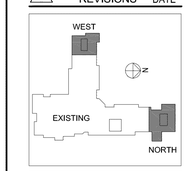

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SYSTEMS DEMOLITION FLOOR PLANS

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