SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
———	-	CONDUIT AND WIRING
– – – – –	-	CONDUIT & WIRING TO BE REMOVED UON
— —UG— —	-	BURIED CONDUIT
——OH——	-	OVERHEAD CONDUCTORS
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P
	-	MULTI-POLE HOMERUN
	-	ELECTRICAL EQUIPMENT AS INDICATED
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON
M	-	ELECTRIC METER
J	-	JUNCTION BOX
	-	FUSED DISCONNECT SWITCH
	-	UNFUSED DISCONNECT SWITCH
	-	COMBINATION MOTOR STARTER/FUSED DISC.
	-	MOTOR STARTER
	-	MOTOR
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW
S_x	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^3	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^4	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^{DIM}	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_M	-	MOTOR RATED TOGGLE SWITCH
S_K	-	KEY OPERATED SINGLE POLE SWITCH
S_V	-	SPEED CONTROLLER (FB0)
	-	WALL MOUNTED OCCUPANCY SENSOR
OC	-	CEILING MOUNTED OCCUPANCY SENSOR
	-	DUPLEX RECEPTACLE
	-	DOUBLE DUPLEX RECEPTACLE
	-	SPECIAL RECEPTACLE
	-	TELEPHONE OUTLET
x	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)
	-	COMBINATION TELEPHONE/DATA OUTLET
	-	COMBINATION DATA & TV OUTLET
	-	TV OUTLET
P	-	FURNITURE SYSTEM POWER FEED
C	-	FURNITURE SYSTEM COMMUNICATION FEED
F	-	FIRE ALARM MANUAL PULL STATION
F	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE)
F 110	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE)
F	-	FIRE ALARM STROBE 15/75 CD
F 110	-	FIRE ALARM STROBE 110 CD
CO	-	CARBON MONOXIDE DEVICE (15/75 CD - STROBE)
S EL; SH; SC	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING
SB	SB	FIRE ALARM DEVICE. SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR
S AC	-	DUCT MOUNTED SMOKE DETECTOR
H	-	HEAT DETECTOR
CO	-	CARBON MONOXIDE DETECTOR
NG	-	NATURAL GAS DETECTOR
F	-	FIRE ALARM BELL
TS	-	FIRE ALARM TAMPER SWITCH
WF	-	FIRE ALARM WATER FLOW SWITCH
DR	-	FIRE ALARM DOOR RELEASE
ANN	-	FIRE ALARM ANNUNCIATOR PANEL
CM	CM	FIRE ALARM CONTROL MODULE
MM	MM	FIRE ALARM MONITORING MODULE
FACP	FACP	FIRE ALARM CONTROL PANEL
BPS	BPS	BOOSTER POWER SUPPLY
R	-	FIRE ALARM RELAY
	EOL	END OF LINE RESISTOR
	-	WALL MOUNTED PUBLIC ADDRESS SPEAKER
	-	PUBLIC ADDRESS TELEPHONE
SP	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
S	-	CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER
B	-	PUBLIC ADDRESS BELL

SYMBOL	ABBREVIATION	DESCRIPTION
C	-	CCTV CAMERA
TC	-	TIME CLOCK
CR	-	CARD READER
DA	-	DOOR ALARM
ES	-	ELECTRIC DOOR STRIKE
MD	-	SECURITY MOTION DETECTOR
KP	-	KEY PAD
PA	-	PANIC ALARM
S	-	SECURITY ALARM HORN
HD	-	ELECTRIC HAND DRYER
EPO	EPO	EMERGENCY POWER OFF SWITCH
RASP	RASP	RESCUE ASSIST. SYSTEM MASTER STATION
	-	REMOTE RESCUE STATION
	CB	CIRCUIT BREAKER
	-	ENCLOSED CIRCUIT BREAKER
200AS 150AF	-	FUSED SWITCH
OR	GND	GROUND AS PER LOCAL CODE
	-	GROUND BAR
OR	-	GROUND ROD
OR T	XFMR	TRANSFORMER
	CT	CURRENT TRANSFORMER
WM	WM	WATER MAIN
B	-	BOILER BREAK GLASS STATION
	NC	NORMALLY CLOSED CONTACTS
	NO	NORMALLY OPEN CONTACTS
	CV	CONTROL VALVE
M	MD	MOTORIZED DAMPER
	SD OR CFSD	SMOKE DAMPER
UH	UH	UNIT HEATER
VAV	VAV	VARIABLE AIR VOLUME BOX
	A	AMPERE(S)
	AC	AIR CONDITIONER
	ACC	AIR CONDITIONER CONDENSER
	AFF	ABOVE FINISHED FLOOR
	AF	AMPERAGE OF FUSE
	AGL	ABOVE GRADE LEVEL
	AHU	AIR HANDLING UNIT
	AL	ALUMINIUM
	ARC	ARC FAULT INTERRUPTER
	AS	AMPERAGE OF SWITCH
	ATS	AUTOMATIC TRANSFER SWITCH
	AWG	AMERICAN WIRE GAUGE
	BCW	BARE COPPER WIRE
	BLDG	BUILDING
	BMS	BUILDING MANAGEMENT SYSTEM
	C	CONDUIT
	CD	CANDELA
	CKT	CIRCUIT
	CLG	CEILING
	COL	COLUMN
	CU	COPPER
	CUH	CABINET UNIT HEATER
	DEM.	DEMOLISH AND REMOVE
	DISC	DISCONNECT
	DIM	DIMMER
	DWG	DRAWING
	ELEV	ELEVATOR
	EMT	ELECTRICAL METALLIC TUBING
	EM	EMERGENCY
	EX.	EXISTING TO REMAIN
	F	FLOOR
	FBO	FURNISHED BY OTHERS
	FC	FAN COIL UNIT
	GFI	GROUND FAULT INTERRUPTER
	HP	HORSEPOWER
	HVAC	HEATING VENTILATION AIR CONDITIONING
	IMC	INTERMEDIATE METAL CONDUIT
	KVA	KILO-VOLT-AMPERE
	KW	KILO-WATT
	MAX	MAXIMUM
	MCB	MAIN CIRCUIT BREAKER
	MIN	MINIMUM
	MLO	MAIN LUG ONLY

SYMBOL	ABBREVIATION	DESCRIPTION
	NIC	NOT IN CONTRACT
	NL	NIGHT LIGHT
	NTS	NOT TO SCALE
	OH	OVERHEAD
	P	POLE
	PBO	PROVIDED BY OTHERS
	PNL	PANEL
	PT	PRESSURE TREATED
	PVC	POLY VINYL CHLORIDE
	REL.	REMOVE AND RELOCATE
	RGS	RIGID GALVANIZED STEEL
	RTU	ROOF TOP UNIT
	SCH	SCHEDULE
	SPD	SURGE PROTECTION DEVICE
	SW	SWITCH(ES)
	TELCO	TELEPHONE COMPANY
	TYP	TYPICAL
	UG	UNDERGROUND
	UON	UNLESS OTHERWISE NOTED
	UV	UNIT VENTILATOR
	VIF	VERIFY IN FIELD
	V	VOLT(S)
	VSD	VARIABLE SPEED DRIVE
	WG	WIRE GUARD
	WH	WATER HEATER
	WP	WEATHERPROOF

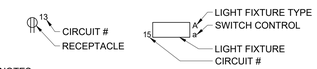
NOTES:
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)

3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)

2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)



NOTES:
1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

DEMOLITION NOTES

1. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
3. CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
5. ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.

GENERAL NOTES

1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
5. ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
6. ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
7. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
8. CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
9. FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY OTHERS.
10. COMMUNICATION WIRING BY OTHERS. COORDINATE COMMUNICATION JACKS WITH REPRESENTATIVE, TYPICAL.
11. WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
12. INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
13. CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
14. UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
15. DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
16. INCLUDE IN BASE BID (4) 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

    LOWER LEVEL -
    MAIN LEVEL-

17. FOR INFORMATION PURPOSES THE FURNITURE SYSTEM HAS AN EIGHT WIRE ELECTRICAL SYSTEM CONSISTING OF 4-1P-20A CIRCUITS (4 HOTS, 2 NEUTRALS, 1 ISOLATED GROUND & 1 EQUIPMENT GROUND). CONFIRM WITH FURNITURE MANUFACTURER/INSTALLER. THE FURNITURE SUPPLIER WILL SUPPLY POWER CONNECTION WHIPS. THE CONTRACTOR SHALL INSTALL AND CUT EACH WHIP AS REQUIRED FOR EACH LOCATION. CONTRACTOR SHALL CONFIRM EACH FURNITURE WHIP LOCATION AND LENGTH WITH OWNER'S REPRESENTATIVE AND ARCHITECT.
18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.
19. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE AND PAY ALL FEES FOR THE UL FIELD EVALUATION SERVICE TO RE-INSPECT AND RE-CERTIFY THE SWITCHBOARD IN RELATION TO MODIFICATIONS REQUIRED WHEN TAPPING THE BUS. CONTRACTOR SHALL SCHEDULE WITH UL PRIOR TO START OF WORK. UL SHALL BE PRESENT WHILE TAPPING OF THE SWITCHBOARD IS EXECUTED. (TEL: 1-877-ULHELPS)

DEFINITION OF TERMS

1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "NEW CITY LIBRARY" IS INTENDED.
2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "VMDO ARCHITECTS" IS INTENDED.
3. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
4. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "ORANGE & ROCKLAND UTILITIES INC." IS INTENDED.
5. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
6. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "A&R ALARM CORP." IS INTENDED.
7. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
8. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
9. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
10. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
11. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

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New City Library

New City Library Addition & Renovation

220 North Main Street
New City, NY 10956

VMDO Project Number

Checked By ML

Drawn By VB

DRAWING NOT FOR CONSTRUCTION

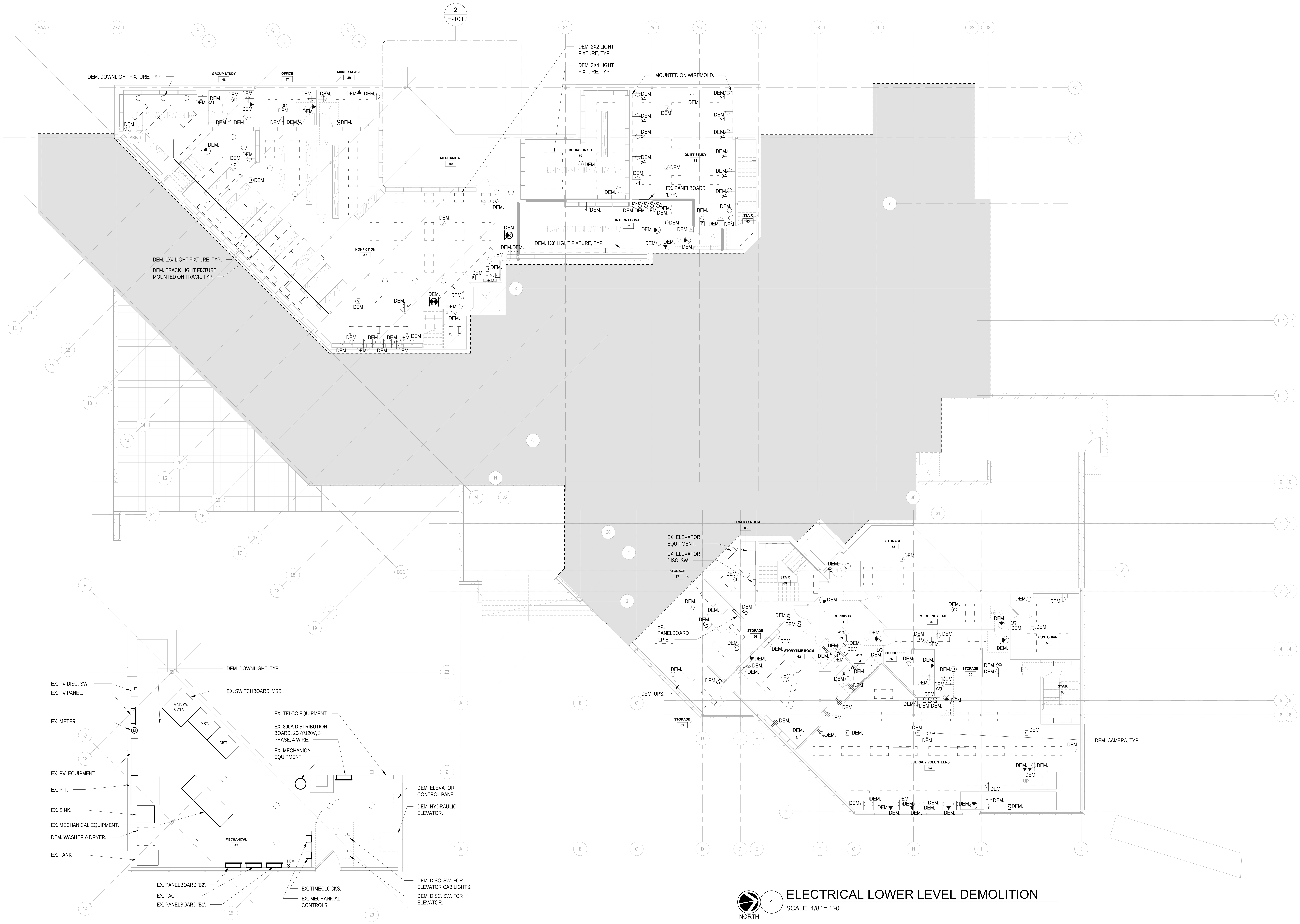
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021

ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

E-001

DESIGN DEVELOPMENT
07.09.2021



NORTH 1 ELECTRICAL LOWER LEVEL DEMOLITION
SCALE: 1/8" = 1'-0"

NORTH 2 ELECTRICAL LOWER LEVEL DEMOLITION MER PART PLAN
SCALE: 1/4" = 1'-0"

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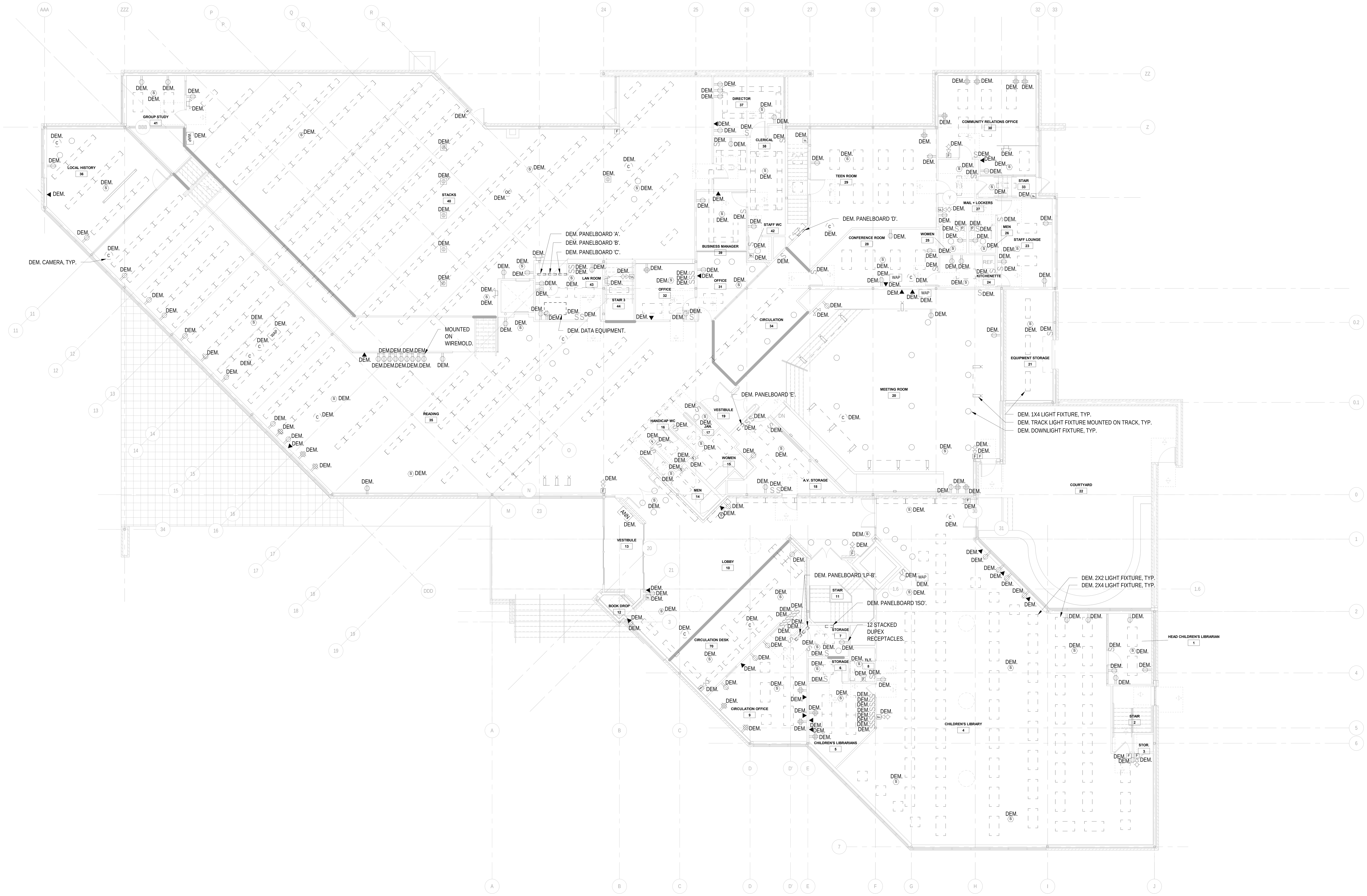
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07/09/21

ELECTRICAL LOWER LEVEL DEMOLITION PLAN

E-101

DESIGN DEVELOPMENT
07.09.2021



1 ELECTRICAL MAIN LEVEL DEMOLITION

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

NORTH

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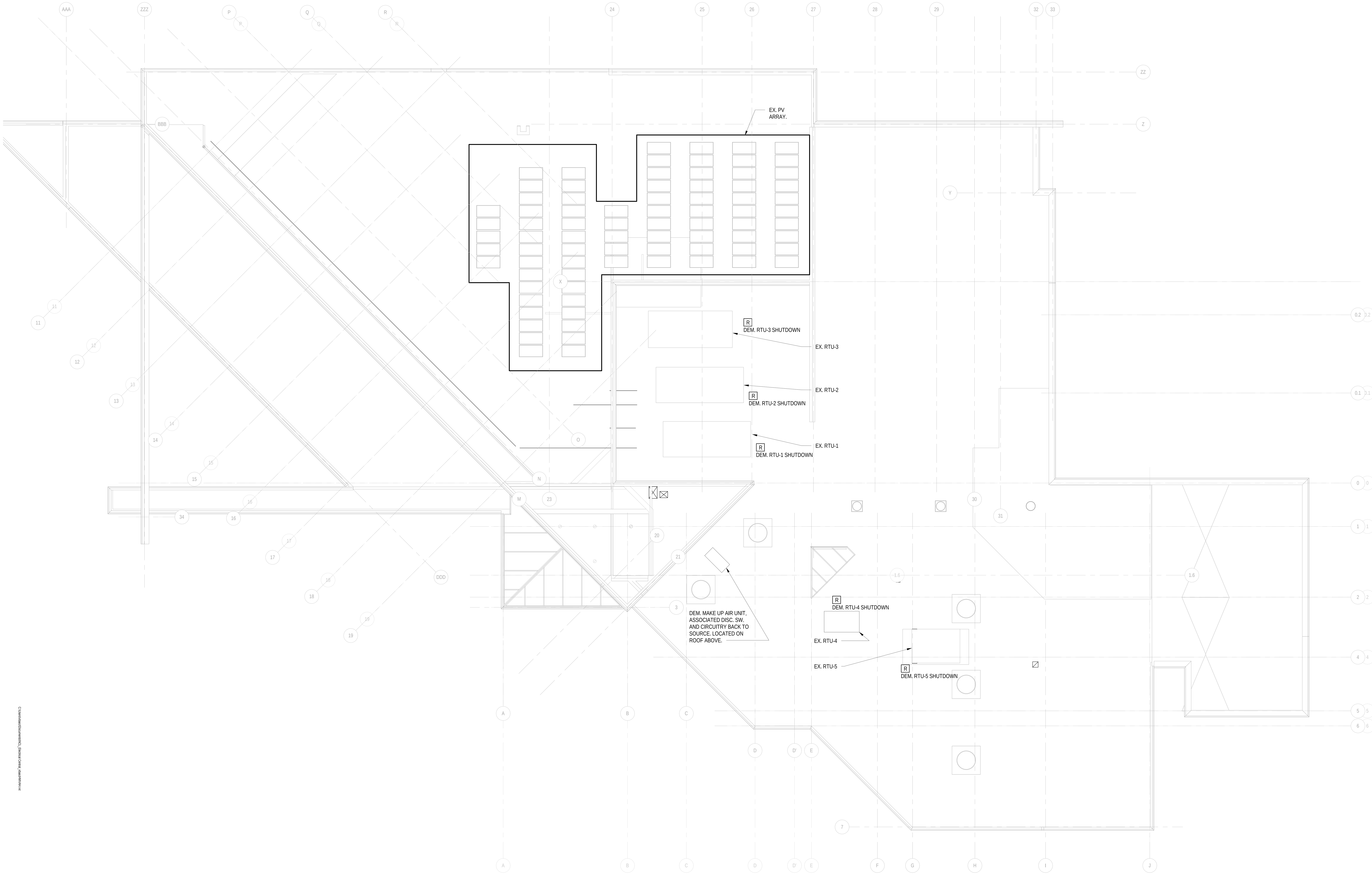
1	DESIGN DEVELOPMENT	07/09/21

ELECTRICAL MAIN LEVEL DEMOLITION PLAN

E-102

DESIGN DEVELOPMENT

07.09.2021



NORTH

1 ELECTRICAL DEMOLITION ROOF PLAN

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

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ELECTRICAL ROOF DEMOLITION PLAN

E-103

DESIGN DEVELOPMENT

07.09.2021

LIGHTING CONTROL LEGEND:

1. TIMECLOCK WITH OCCUPANCY CONTROLS AFTER HOURS.
2. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL ON/OFF SWITCH.
3. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH MANUAL ON/OFF SWITCH.
4. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
5. LINE VOLTAGE MANUAL ON/OFF SWITCH.
6. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
7. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED SWITCH.

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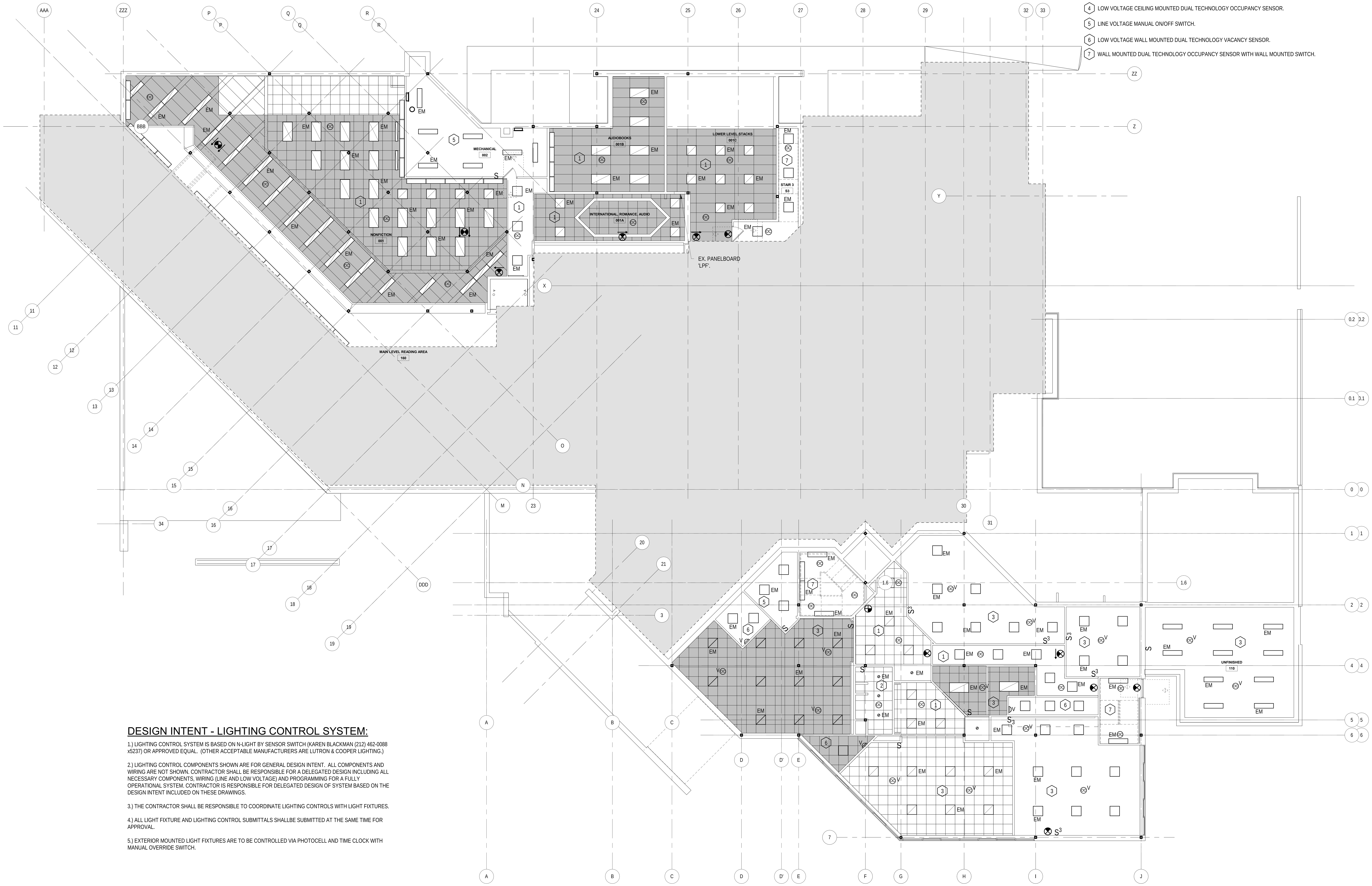

DESIGN INTENT - LIGHTING CONTROL SYSTEM:

1.) LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)

2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.

3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.

4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALLBE SUBMITTED AT THE SAME TIME FOR APPROVAL.

5.) EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

1 ELECTRICAL LOWER LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH

Checked By ML
Drawn By VB

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07/09/21

ELECTRICAL LOWER LEVEL RCP

E-201

DESIGN DEVELOPMENT
07.09.2021

LIGHTING CONTROL LEGEND:

1. TIMECLOCK WITH OCCUPANCY CONTROLS AFTER HOURS.
2. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL ON/OFF SWITCH.
3. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH MANUAL ON/OFF SWITCH.
4. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
5. LINE VOLTAGE MANUAL ON/OFF SWITCH.
6. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
7. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED SWITCH.

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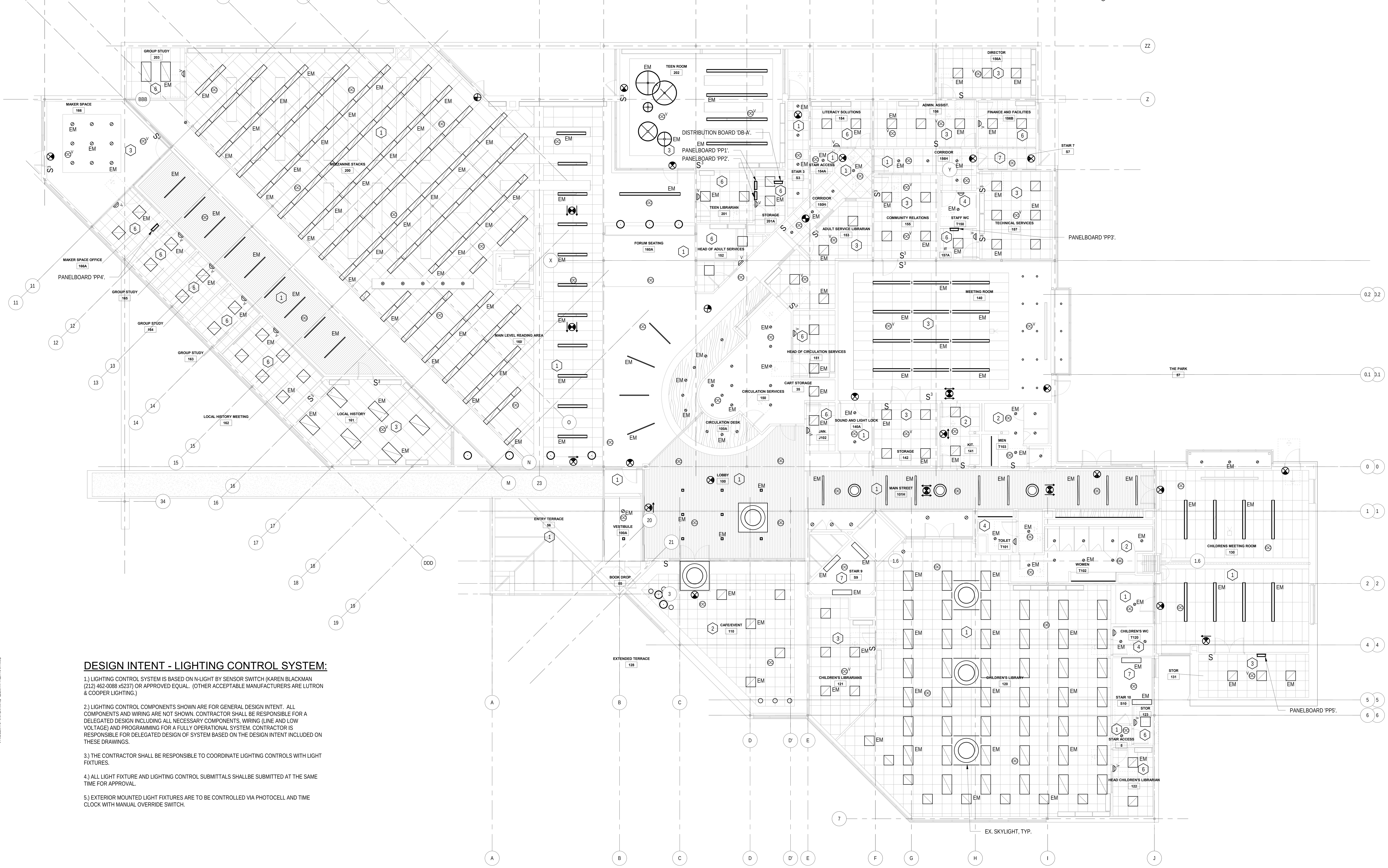
New City Library

Owner

New City Library Addition & Renovation

220 N Main St, New City, NY 10956

Client Project Number
VMDO Project Number NVMD0001.00



DESIGN INTENT - LIGHTING CONTROL SYSTEM:

1.) LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)

2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.

3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.

4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALLBE SUBMITTED AT THE SAME TIME FOR APPROVAL.

5.) EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

Checked By ML
Drawn By VB

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07/09/21

1 ELECTRICAL MAIN LEVEL LIGHTING PLAN

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

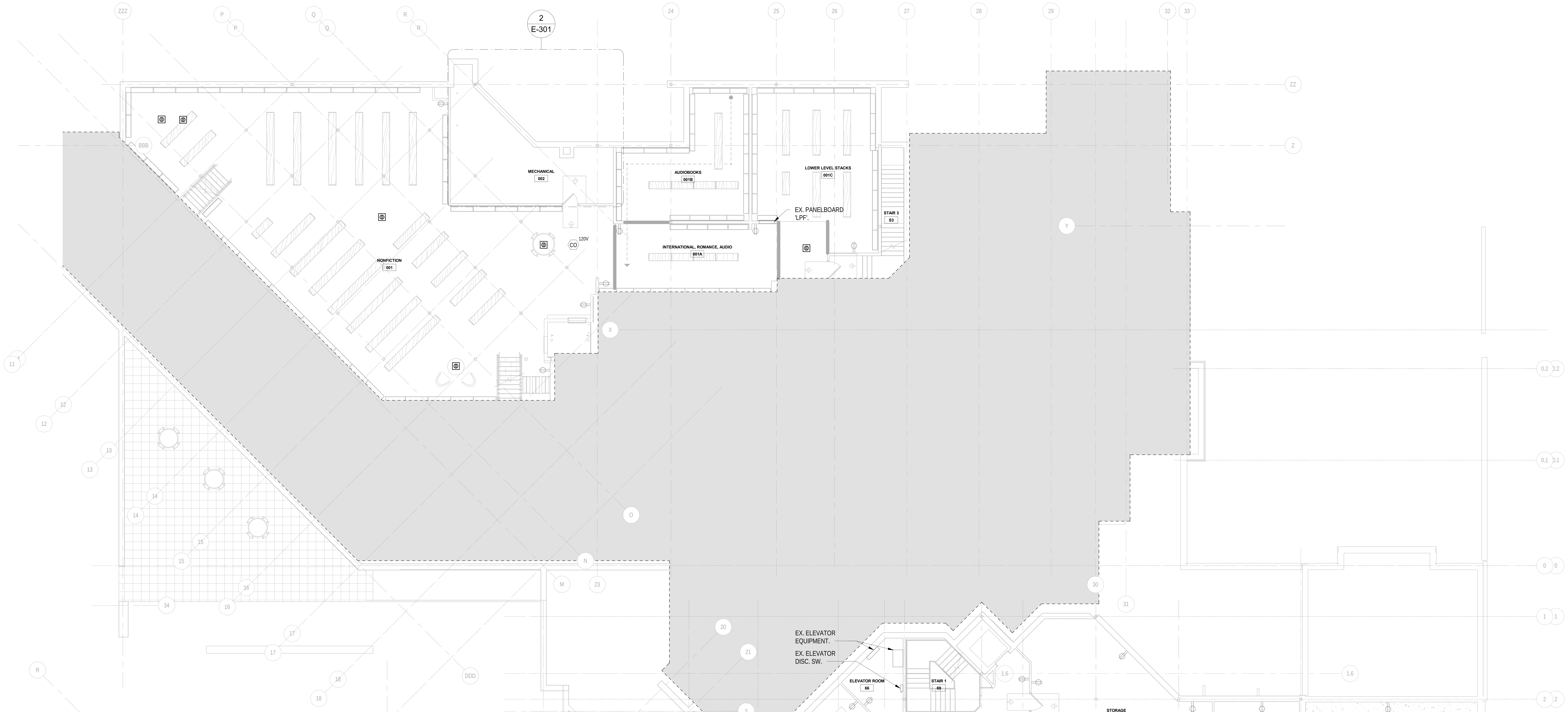
NORTH

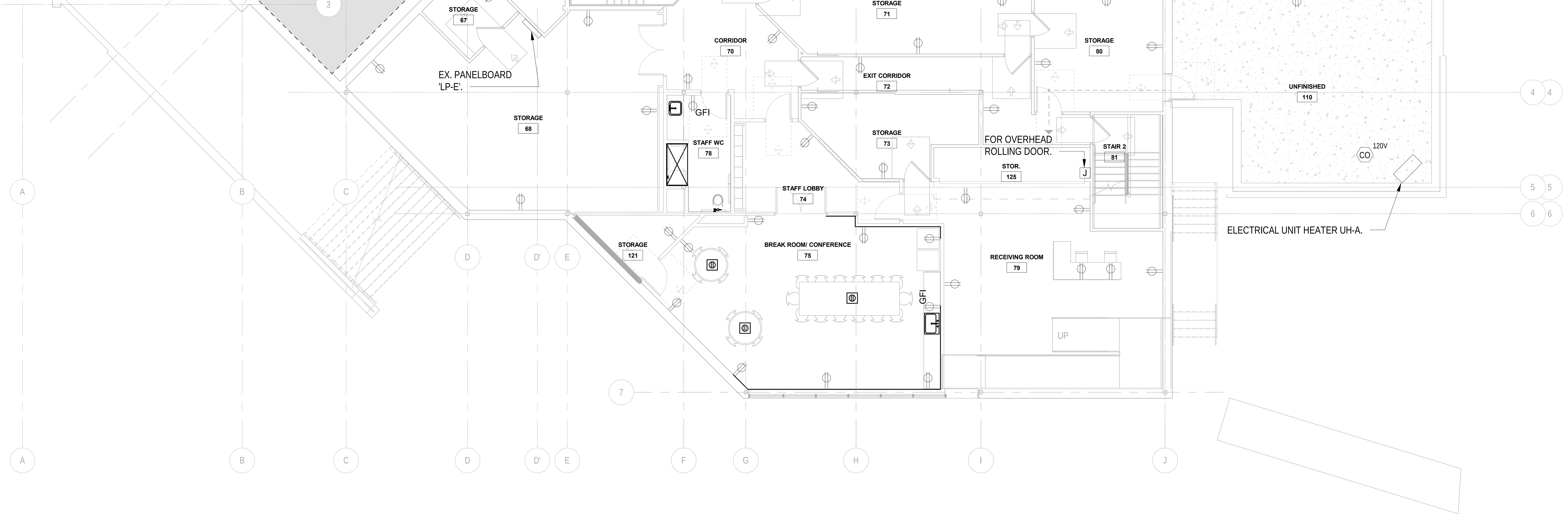
ELECTRICAL MAIN LEVEL RCP

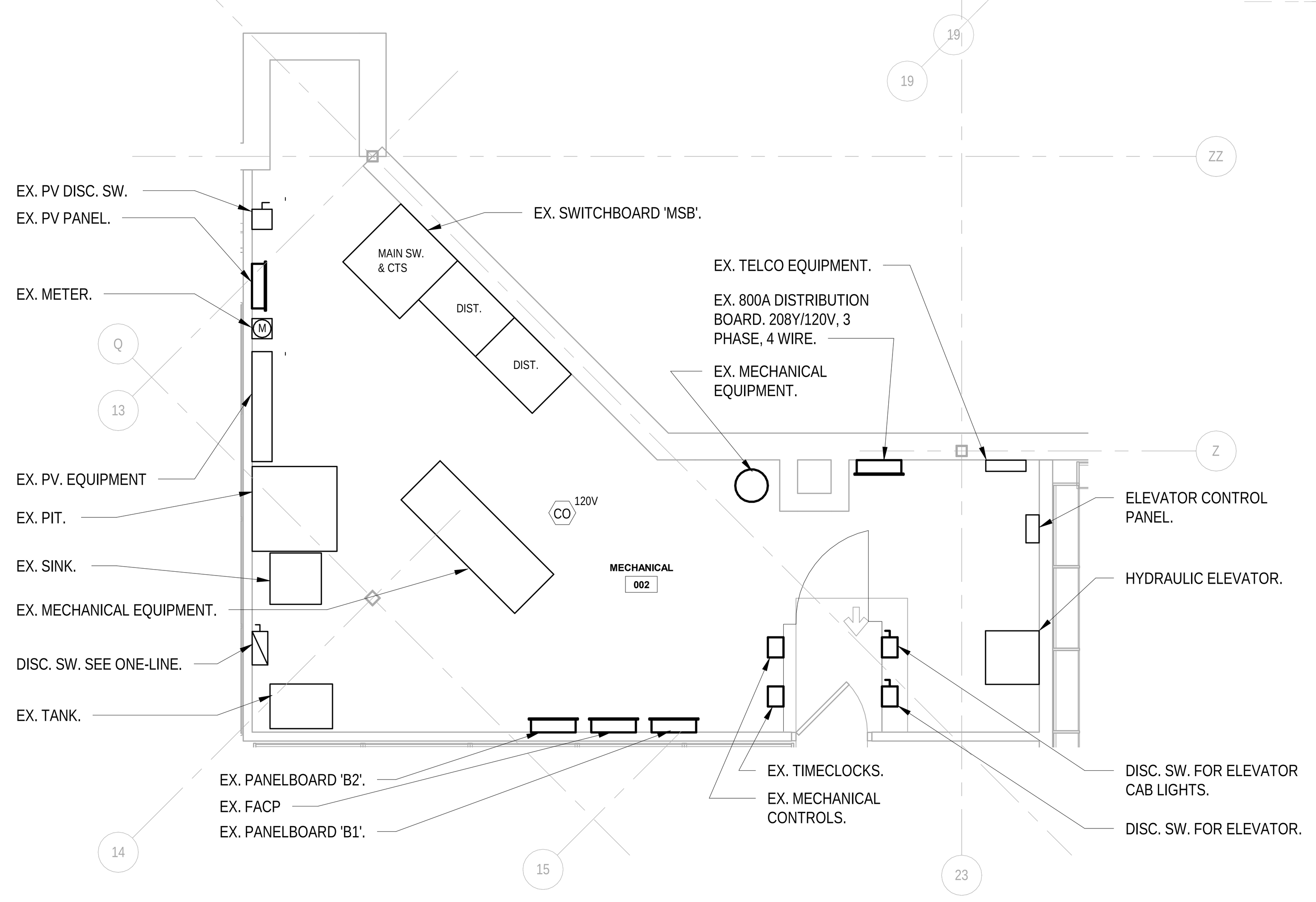
E-202

DESIGN DEVELOPMENT

07.09.2021







2 ELECTRICAL LOWER LEVEL NEW WORK MER PART PLAN
SCALE: 1/4" = 1'-0"
NORTH

1 ELECTRICAL LOWER LEVEL NEW WORK
SCALE: 1/8" = 1'-0"
NORTH

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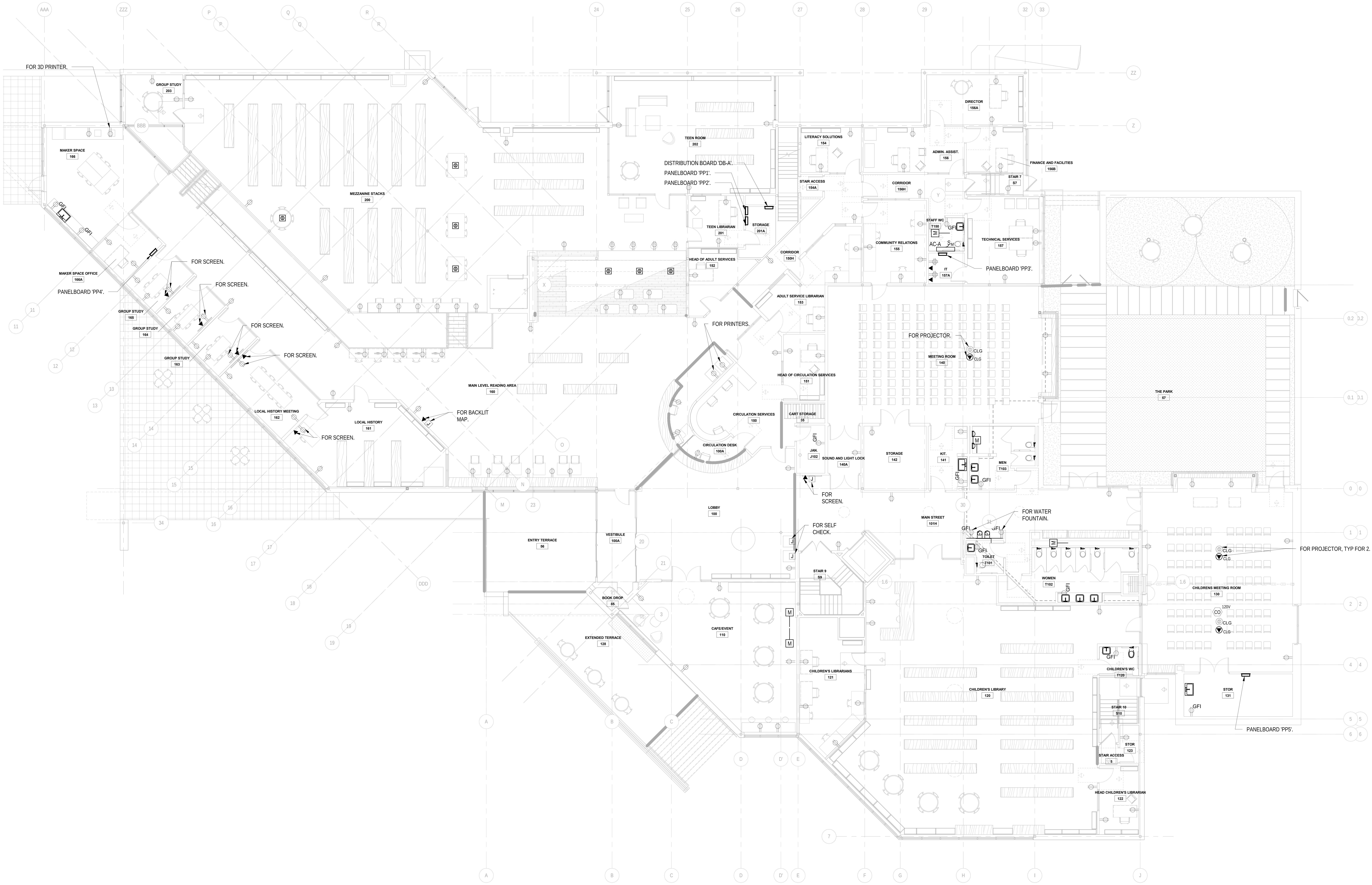
ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07/09/21

ELECTRICAL LOWER LEVEL NEW WORK PLAN

E-301

DESIGN DEVELOPMENT
07.09.2021



1 ELECTRICAL MAIN LEVEL NEW WORK
SCALE: 1/8" = 1'-0"
NORTH

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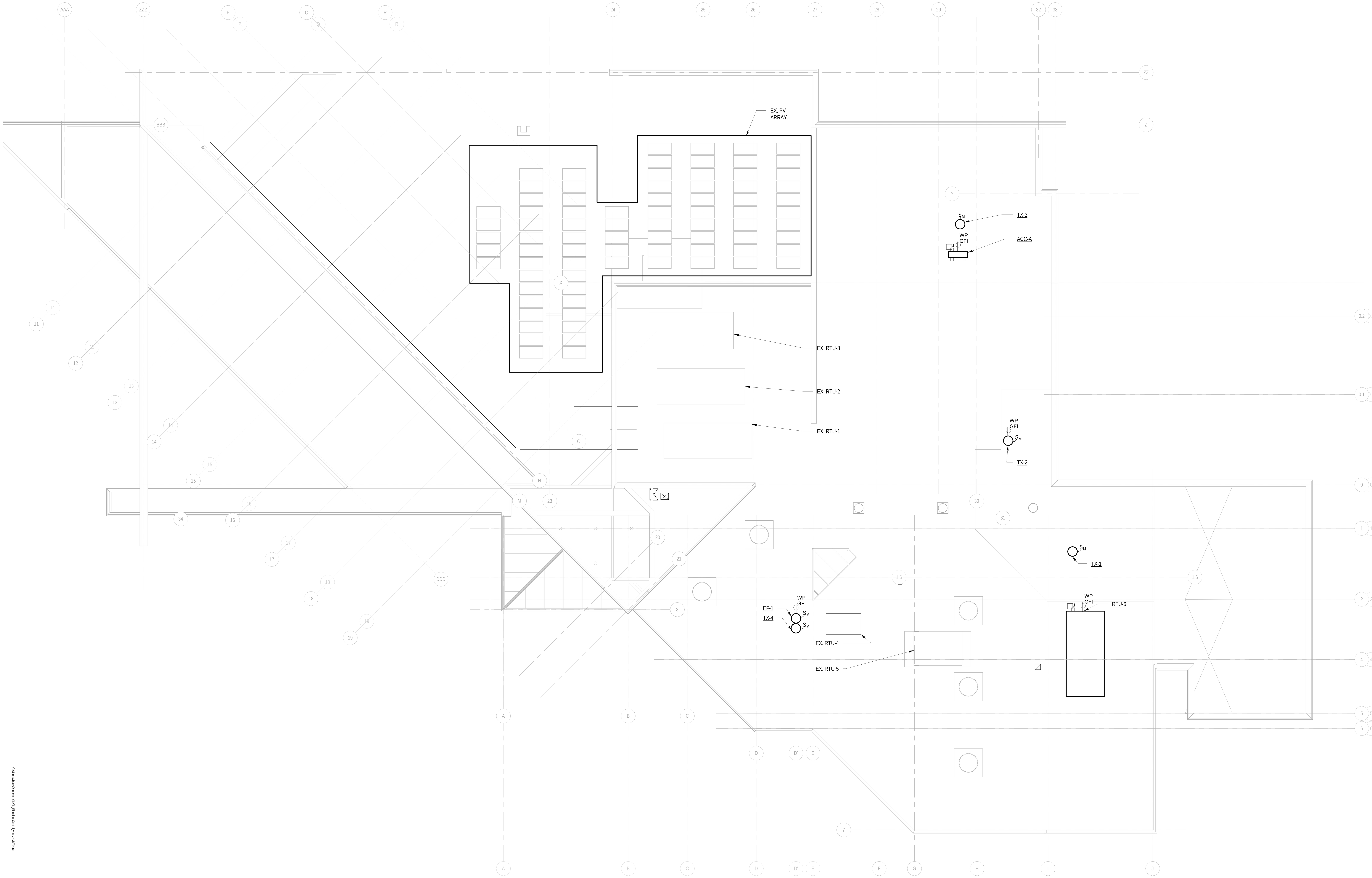
1	DESIGN DEVELOPMENT	07/09/21

ELECTRICAL MAIN LEVEL NEW WORK PLAN

E-302

DESIGN DEVELOPMENT

07.09.2021



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1 ELECTRICAL MEZZANINE ROOF

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

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ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE

ELECTRICAL ROOF NEW WORK PLAN

E-303

DESIGN DEVELOPMENT

07.09.2021

FIRE ALARM LOWER LEVEL NEW WORK

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

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ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	DESIGN DEVELOPMENT	07/09/21

FIRE ALARM LOWER LEVEL NEW WORK PLAN

E-401

DESIGN DEVELOPMENT

07.09.2021

FIRE ALARM MAIN LEVEL NEW WORK

1 — SCALE: 1/8" = 1'-0"

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1	DESIGN DEVELOPMENT	07/09/21

FIRE ALARM MAIN LEVEL
NEW WORK PLAN

E-402

DESIGN DEVELOPMENT

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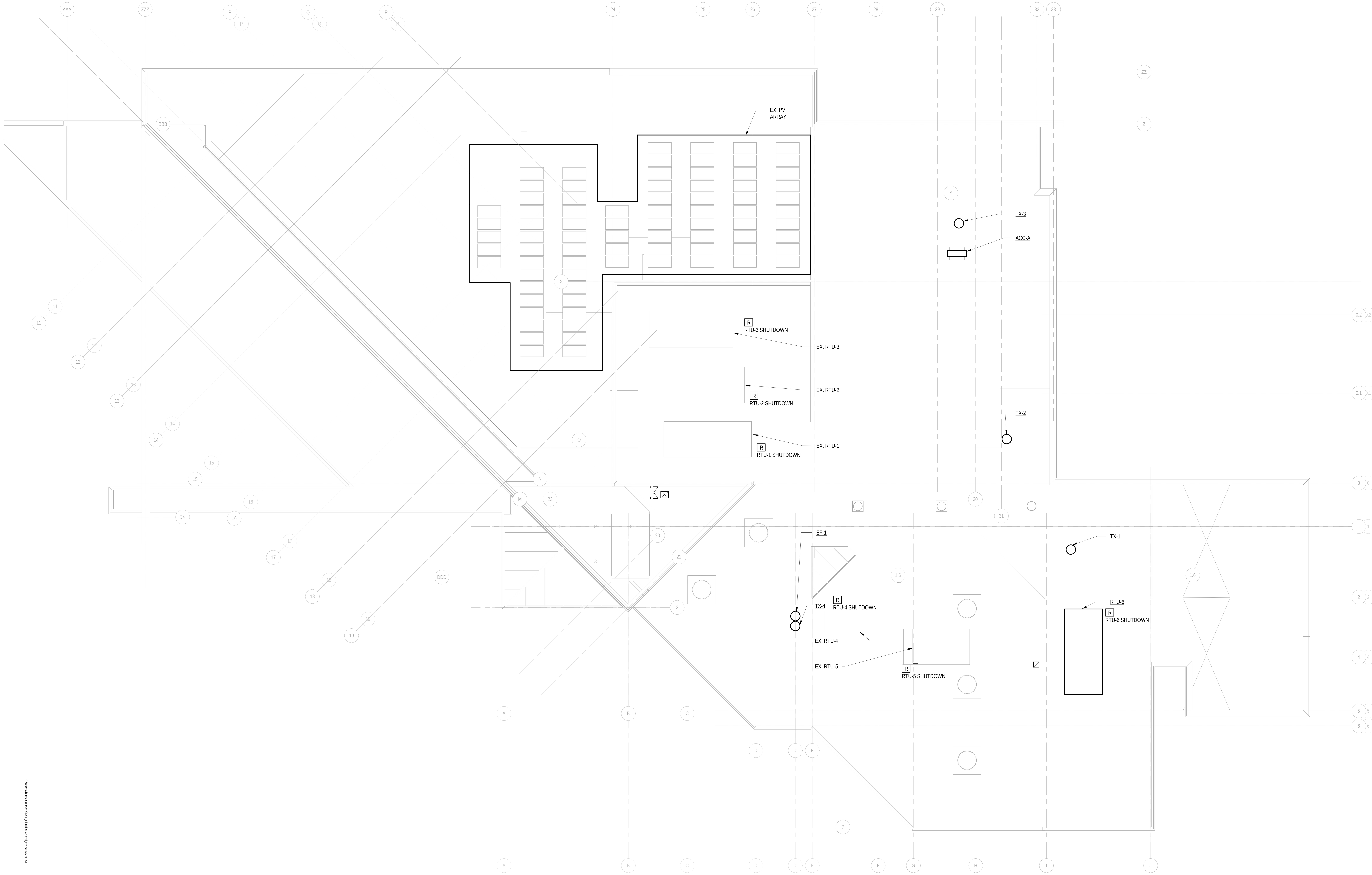

NORTH

1 FIRE ALARM MEZZANINE ROOF

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

Owner

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ISSUES AND REVISIONS

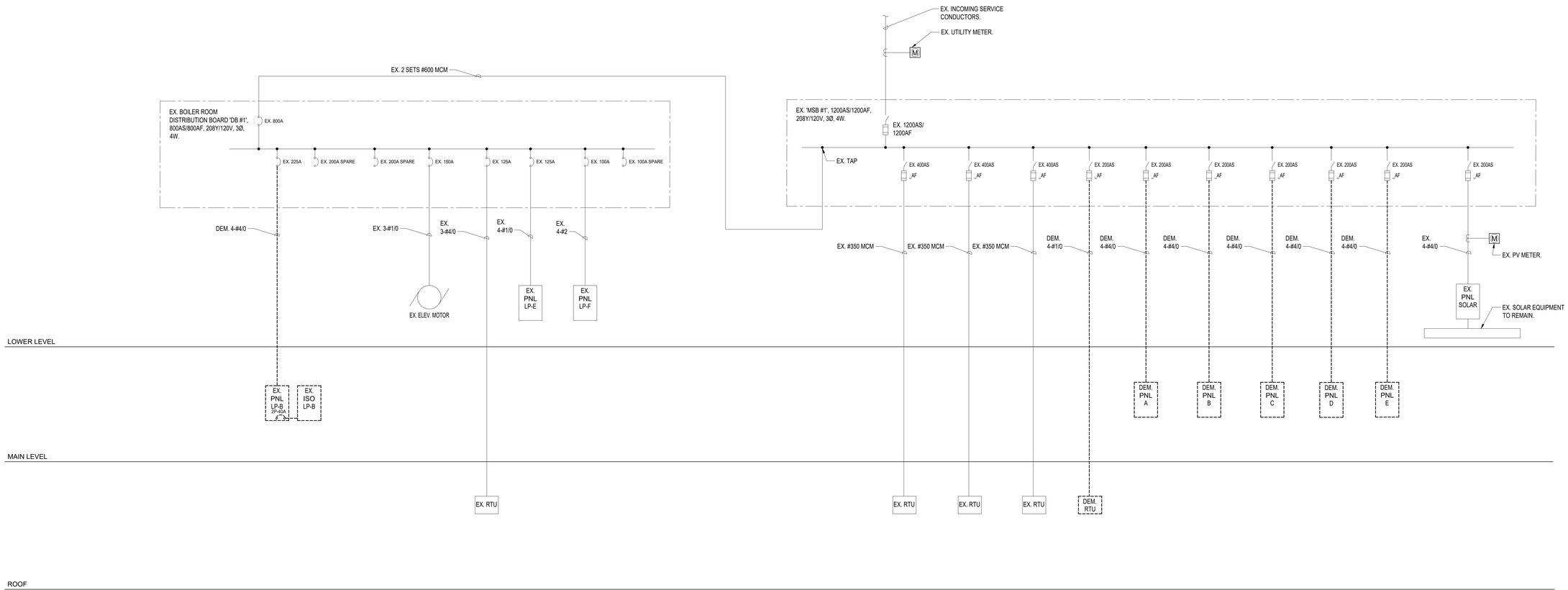
NO.	SUBMITTAL	DATE

FIRE ALARM ROOF NEW WORK PLAN

E-403

DESIGN DEVELOPMENT

07.09.2021



1 ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

SCALE: NONE

NOTES:
1. ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, U.O.N.

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NO.	SUBMITTAL	DATE
	DESIGN DEVELOPMENT	07.09.2021

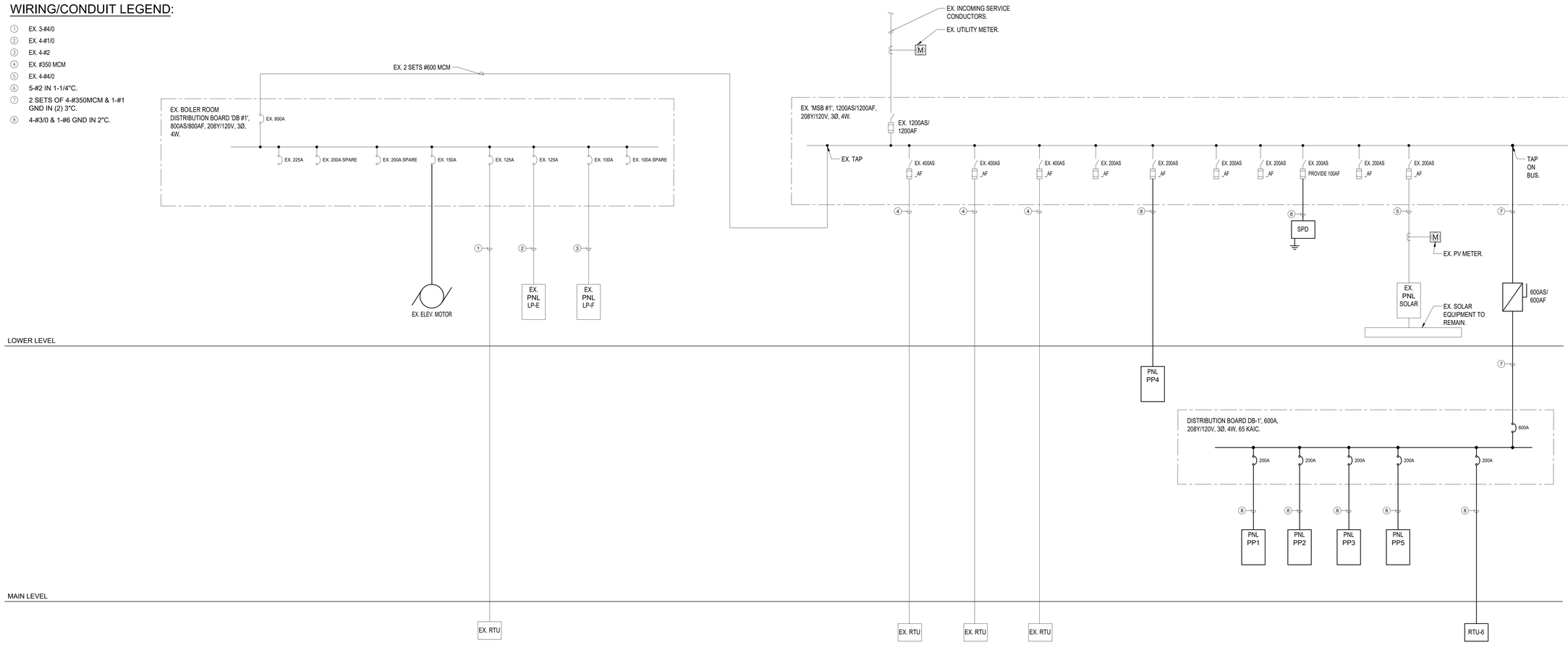
ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

E-501

DESIGN DEVELOPMENT
07.09.2021

WIRING/CONDUIT LEGEND:

1. EX. 3-#4/0
2. EX. 4-#1/0
3. EX. 4-#2
4. EX. #350 MCM
5. EX. 4-#4/0
6. 5-#2 IN 1-1/4"C.
7. 2 SETS OF 4-#350MCM & 1-#1 GND IN (2) 3"C.
8. 4-#3/0 & 1-#6 GND IN 2"C.



1 ELECTRICAL NEW WORK ONE-LINE DIAGRAM

SCALE: NONE

NOTES:
1. ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, U.O.N.

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	DESIGN DEVELOPMENT	07.09.2021

ELECTRICAL NEW WORK ONE-LINE DIAGRAM

E-502

DESIGN DEVELOPMENT
07.09.2021

PP1 PANEL SCHEDULE

MAIN RATING: 200A | MAIN C.B.: 200A | KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	–	–	–	–	–	–	2
3	–	–	–	–	–	–	4
5	–	–	–	–	–	–	6
7	–	–	–	–	–	–	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18
19	–	–	–	–	–	–	20
21	–	–	–	–	–	–	22
23	–	–	–	–	–	–	24
25	–	–	–	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

PP2 PANEL SCHEDULE

MAIN RATING: 200A | MAIN C.B.: 200A | KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	–	–	–	–	–	–	2
3	–	–	–	–	–	–	4
5	–	–	–	–	–	–	6
7	–	–	–	–	–	–	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18
19	–	–	–	–	–	–	20
21	–	–	–	–	–	–	22
23	–	–	–	–	–	–	24
25	–	–	–	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

PP3 PANEL SCHEDULE

MAIN RATING: 200A | MAIN C.B.: 200A | KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	–	–	–	–	–	–	2
3	–	–	–	–	–	–	4
5	–	–	–	–	–	–	6
7	–	–	–	–	–	–	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18
19	–	–	–	–	–	–	20
21	–	–	–	–	–	–	22
23	–	–	–	–	–	–	24
25	–	–	–	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

PP4 PANEL SCHEDULE

MAIN RATING: 200A | MAIN C.B.: 200A | KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V | PHASE: 3 | WIRE: 4 | MOUNTING: RECESSED

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	–	–	–	–	–	–	2
3	–	–	–	–	–	–	4
5	–	–	–	–	–	–	6
7	–	–	–	–	–	–	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18
19	–	–	–	–	–	–	20
21	–	–	–	–	–	–	22
23	–	–	–	–	–	–	24
25	–	–	–	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

PP5 PANEL SCHEDULE

MAIN RATING: 200A | MAIN C.B.: 200A | KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	–	–	–	–	–	–	2
3	–	–	–	–	–	–	4
5	–	–	–	–	–	–	6
7	–	–	–	–	–	–	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18
19	–	–	–	–	–	–	20
21	–	–	–	–	–	–	22
23	–	–	–	–	–	–	24
25	–	–	–	–	–	–	26
27	–	–	–	–	–	–	28
29	–	–	–	–	–	–	30
31	–	–	–	–	–	–	32
33	–	–	–	–	–	–	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK – PROVIDE LOCKING TABS ON C.B.; GF – GFI TYPE C.B.; GP – GFP TYPE C.B.;
AF – ARC FAULT TYPE C.B.; ST – SHUNT TRIP C.B.

NOTES:

LIGHTING FIXTURE SCHEDULE

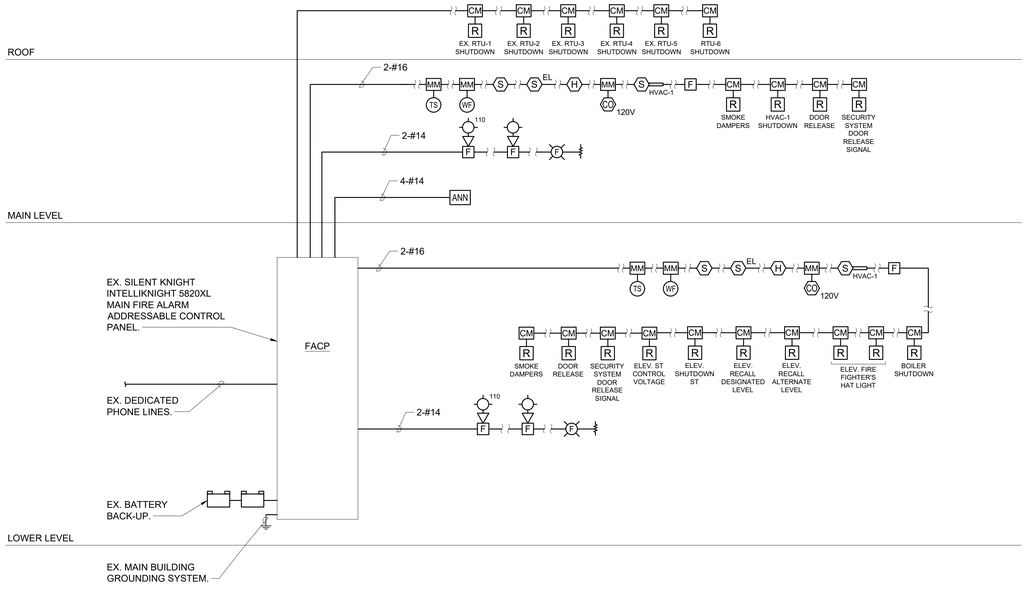
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
▭	BEGA	24063	5.1W LED	UNV	RECESSED	RECESSED WALL LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
⌀	BEGA	66698	12.5W LED	UNV	SURFACE	WALL LIGHT FIXTURE WITH SINGLE SIDED LIGHT OUTPUT. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
▭	FOCAL POINT	–	___W LED	UNV	PENDANT	SEEM 1 LED DIRECT/INDIRECT. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
▭	FOCAL POINT	–	___W LED	UNV	RECESSED	SEEM 6 LED LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
◯	FOCUS LIGHTING	–	___W LED	UNV	PENDANT	H+M PENDEL LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
◯	LUMENWERX	–	___W LED	UNV	PENDANT	RIM PENDANT LIGHT FIXTURE. PROVIDE EM OPTION WHERE INDICATED FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
⊠	–	–	–	UNV	–	LED EXIT SIGN WITH 90 MINUTES OF NICAD BATTERY BACKUP TIME, 8" RED LETTERS ON WHITE BACKGROUND, SURFACE MOUNTED WHITE CORROSION–PROOF THERMOPLASTIC HOUSING.

NOTES:

1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK–UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT–TO–POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

RISER NOTES:

1. THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
2. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
3. QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
4. PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT NEW DEVICES TO EXISTING SYSTEM.
5. PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
6. PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL FIFTEEN (15) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE ADDITIONAL FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
7. HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
8. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
9. CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL BE MOUNTED ON SOUNDER BASES WHICH PROVIDE LOCAL ALARM ONLY IN A TEMPORAL 4 PATTERN OR CONSTANT TONE.
10. NATURAL GAS ALARMS (120V) SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE ALARMS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY.
11. ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
12. ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
13. DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
14. MAINTAIN A 19" TO 24" CLEARANCE AROUND THE CENTERLINE OF THE BEAM OF BEAM TYPE SMOKE DETECTORS.
15. PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
16. CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.
17. CONTROL MODULES USED TO INITIATE EMERGENCY CONTROL FUNCTIONS THAT DO NOT FAIL IN A SAFE POSITION SHALL BE LOCATED WITHIN 3 FEET OF THE COMPONENT CONTROLLING THE EMERGENCY CONTROL FUNCTION PER NFPA 72. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL MODULES CONNECTED TO FAN MOTOR CONTROLLERS, ELEVATOR CONTROLLERS, ETC.
18. BATTERY BACKUP FOR FACP SHALL PROVIDE A MINIMUM OF 24 HOURS OF STAND BY POWER FOLLOWED BY 45 MINUTES OF ALARM.
19. ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC SHALL BE PAINTED "FIRE DEPARTMENT RED".



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New City Library

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New City Library Addition & Renovation

220 North Main Street
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VMDO Project Number

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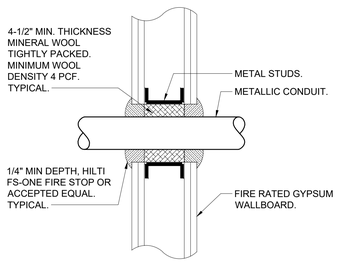
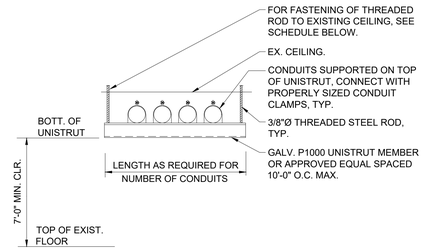
ELECTRICAL SCHEDULES AND FIRE ALARM RISER DIAGRAM

E-601

DESIGN DEVELOPMENT
07.09.2021

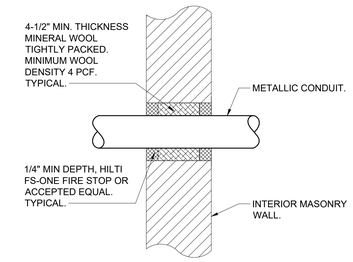


9 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

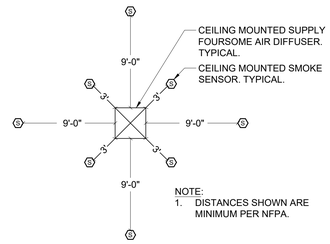


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

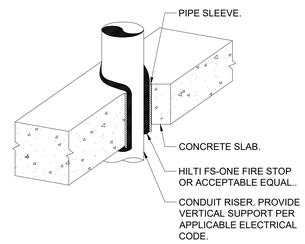
6 TRAPESE SUPPORT DETAIL
SCALE: NONE



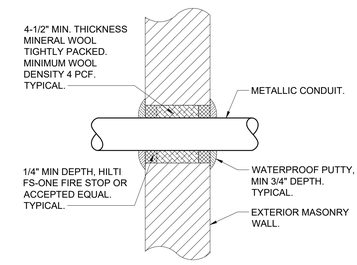
3 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



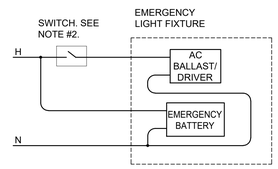
8 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
SCALE: NONE



5 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE

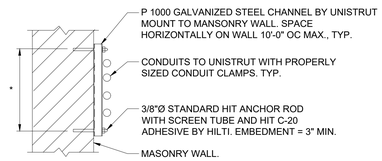


2 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



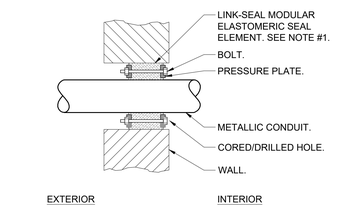
NOTES:
1. THE CONNECTION TO THE LAMPS IS NOT SHOWN - FOLLOW MANUFACTURER WIRING DIAGRAMS.
2. "SWITCH" REPRESENTS A SINGLE POLE SWITCH, A SET OF CONTACTS, A COMBINATION OF 3 WAY AND 4 WAY SWITCHES, ETC. SEE DRAWINGS FOR ACTUAL SWITCH CONFIGURATION.

7 SWITCHED EMERGENCY FIXTURE WIRING DIAGRAM
SCALE: NONE



* LENGTH AS REQUIRED FOR NUMBER OF CONDUITS

4 TYPICAL CONDUIT SUPPORT ON MASONRY DETAIL
SCALE: NONE



NOTES:
1. SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2. PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
3. PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

1 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE

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ELECTRICAL DETAILS

E-701

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