

SYMBOLS, SPECIFICATIONS, NOTES & ABBREVIATIONS

A. GENERAL

- THE CONTRACTOR SHALL COMPLY WITH ALL THE LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL LOCAL AND STATE GOVERNMENTAL AUTHORITIES, THE RULES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AS INTERPRETED BY THE ENFORCING AUTHORITY HAVING JURISDICTION AND OF THE PUBLIC UTILITIES HAVING CONNECTION WITH ANY OF THE SYSTEMS HEREIN SPECIFIED.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES, AND PAY FOR ALL OTHER COSTS IN CONNECTION WITH THE WORK. ALL CERTIFICATES SHALL BE IN DUPLICATE AND SHALL BE DELIVERED TO THE ARCHITECT.
- THE SITE, LOCATION AND ROUTING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS WOULD PERMIT. BIDDERS SHALL VISIT THE SITE AND THOROUGHLY EXAMINE THE CONTRACT DRAWINGS. ALL EXISTING CONDITIONS SHALL BE EXAMINED AND THEIR EXACT LOCATIONS VERIFIED. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT BEFORE SUBMITTING A BID, ANY CONDITIONS WHICH MIGHT MAKE INSTALLATION OF REQUIRED EQUIPMENT A PROBLEM. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE CONDITIONS OR MISUNDERSTANDING OF THE CONTRACTUAL REQUIREMENTS.
- THE CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND, UNLESS OTHERWISE SHOWN OR SPECIFIED, FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS AND FURNISH AND INSTALL ALL REQUIRED AUXILIARY ITEMS COMPLETE.
- DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC AND FOR BIDDING PURPOSES ONLY. WHILE THE DRAWINGS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD.
- COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS IN CIRCUITRY AND OTHER ITEMS REQUIRED TO INSTALL THE WORK WITHOUT INTERFERENCES.
- THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER ITS PROPER OPERATIONS. ALL NEW EQUIPMENT SHALL BE MOUNTED VIBRATION FREE.
- ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED IN FULL FROM ALL DEFECTS FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK.
- ALL EQUIPMENT INSTALLED SHALL BE NEW AND SHALL CONFORM IN ALL RESPECTS TO THE LATEST APPROVED STANDARDS OF IEEE, ANSI, NEMA AND UNDERWRITERS LABORATORIES, INC., (UNLESS INDICATED OTHERWISE). SUBSTITUTIONS SHALL ONLY BE ACCOMPLISHED AT THE DISCRETION OF THE ARCHITECT. SHOP DRAWINGS ARE TO BE SUBMITTED AND APPROVED BEFORE THE EQUIPMENT IS ORDERED. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS TO THE ARCHITECT OF THE FOLLOWING: LIGHTING FIXTURES, DISCONNECT SWITCHES, PANELBOARDS, TRANSFORMERS, FIRE ALARM SYSTEM AND WIRING DEVICES.

- DEFINITIONS
 - "PROVIDE" UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL.
 - "CONCEALED" UNDER THIS CONTRACT IS DEFINED AS HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS.
 - "EXPOSED" UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW.
 - "INDICATED" UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACT DOCUMENTS.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC.
- PROVIDE TEMPORARY SERVICE FOR LIGHTING AND POWER EQUIPMENT (DRILLS, SAW, ETC.). VERIFY TEMPORARY REQUIREMENTS WITH GENERAL CONTRACTOR. TEMPORARY LIGHTING AND POWER SHALL MEET OSHA REQUIREMENTS AND LOCAL CODE. TEMPORARY POWER SHALL BE 120 VOLTS.
- FINAL TESTING: AT THE TIME OF FINAL INSPECTION AND TESTS, ALL CONNECTIONS AT PANELBOARDS, DEVICES AND EQUIPMENT AND ALL SPLICES MUST BE COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUITS. UPON COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. RACEWAYS, BOXES AND CONDUITS

- OUTDOORS WIRING METHODS: USE THE FOLLOWING WIRING METHODS:
 - EXPOSED: RIGID OR INTERMEDIATE METAL CONDUIT OR RIGID ALUMINUM CONDUIT.
 - CONCEALED: RIGID OR INTERMEDIATE METAL CONDUIT.
 - UNDERGROUND: RIGID NONMETALLIC CONDUIT, UNLESS OTHERWISE NOTED.
 - CONNECTION TO VIBRATING EQUIPMENT: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
 - BOXES AND ENCLOSURES: NEMA TYPE 3R.
- INDOORS WIRING METHODS: USE THE FOLLOWING METHODS:
 - CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT, EXCEPT IN WET OR DAMP LOCATIONS USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
 - DAMP OR WET LOCATIONS: RIGID STEEL CONDUITS.
 - EXPOSED: ELECTRICAL METALLIC TUBING.
 - CONCEALED: ELECTRICAL METALLIC TUBING OR, AS APPROVED, ARMOR-CLAD (MC) CABLE.
 - BOXES AND ENCLOSURES: NEMA TYPE 1, EXCEPT IN DAMP OR WET LOCATIONS USE NEMA TYPE 3R.
- ALL CIRCUITRY IN FINISHED AREAS SHALL BE RUN CONCEALED. MINIMUM SIZE CONDUIT SHALL BE 1/2".
- EMT CONNECTORS AND COUPLINGS SHALL BE OF THE ALL-STEEL, COMPRESSION TYPE.
- EXPOSED AND CONCEALED CIRCUITRY (WHETHER CONDUIT AND WIRE OR CABLE) SHALL BE RUN TIGHT TO CEILING SLAB (AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM) IN A NEAT, WORKMANLIKE MANNER. ALL RUNS SHALL BE PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS.
- ALL CIRCUITRY RUNS INDICATED ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE MOST SUITABLE ROUTES.
- ALL EMPTY RACEWAYS SHALL CONTAIN A DRAG WIRE. EMPTY RACEWAYS 2" OR LARGER IN SIZE SHALL HAVE A MAXIMUM OF 3-90 DEGREE BENDS. PROVIDE 1" EMT FROM EACH TELEPHONE OR COMMUNICATION OUTLET DEVICE TO CEILING SPACE FOR ALL INSULATED WALLS.
- EXPOSED LOW VOLTAGE WIRING SHALL BE INSTALLED IN A RACEWAY, UNLESS OTHERWISE NOTED.
- OUTLET BOXES SHALL BE A MINIMUM OF 4" SQUARE WITH THE APPROPRIATE PLASTER RING OR TILE COVER.

C. WIRE AND CABLE

- ALL CONDUCTORS SHALL BE COPPER, MINIMUM #12 (EXCEPT CONTROL CONDUCTORS AND LIGHTING TAPS AS PERMITTED BY NEC. CONDUCTORS FOR SWITCHING LIGHTS SHALL NOT BE CONSIDERED CONTROL CONDUCTORS), WITH 600 VOLT TYPE "THHN-THWN" INSULATION. CONDUCTORS #8 AND LARGER SHALL BE STRANDED. CONDUCTOR SIZES ARE BASED ON 75°C RATING.
- WHERE APPROVED BY THE AUTHORITIES HAVING JURISDICTION, "MC" CABLE MAY BE UTILIZED FOR INTERIOR BRANCH CIRCUITS. ALL "MC" CABLE SHALL HAVE A GREEN INSULATED GROUND WIRE IN ADDITION TO THE BONDING WIRE.
- ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 100 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM.
- RUN MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANELBOARD CIRCUITS (I.E., 1,3,5)
- WHERE APPROVED BY THE AUTHORITIES HAVING JURISDICTION, "NMC" CABLE MAY BE UTILIZED FOR INTERIOR BRANCH CIRCUITS IN THE RESIDENTIAL UNITS. ALL "NMC" CABLE SHALL HAVE A GREEN GROUND WIRE IN ADDITION.
- PROVIDE UL LISTED FIRE RATED CONDUCTORS IN CONDUIT FOR CONTROL AND POWER WIRING SERVING EMERGENCY SYSTEMS THROUGHOUT THE BUILDING AS PER NEC ARTICLE 700.10(D)(1) AND IBC SECTION 909.20.6.1 (EXCEPTION 3) & [F] IBC 909.12.2. THE CONDUCTORS SHALL BE UL LISTED MINIMUM 2-HOUR RATED WHEN INSTALLED IN CONDUIT. EMERGENCY SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO FEEDERS SERVING EGRESS LIGHTING, FIRE ALARM SYSTEM, AND VOICE EVACUATION SYSTEM.

D. SUPPORTING DEVICES

- INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC REQUIREMENTS AND ANY ADDITIONAL LOCAL CODES.
- COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER ELECTRICAL INSTALLATIONS.

E. EQUIPMENT CONNECTION

- EXTEND WIRING TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND MAKE FINAL AND COMPLETE CONNECTIONS TO ALL EQUIPMENT. BEFORE ROUGHING IN, THE LOCATION AND TYPE OF DEVICE SHALL HAVE VERIFIED FROM SHOP DRAWINGS OF THE EQUIPMENT. STARTERS AND DISCONNECTS AND OTHER ELECTRICAL CIRCUITRY AND DEVICES SHALL BE LOCATED TO ALLOW ACCESS TO DEVICES AND NOT INTERFERE WITH THE OPERATION OF THE MECHANICAL OR ARCHITECTURAL DEVICES OR THEIR POSSIBLE MAINTENANCE OR REMOVAL.
- ALL EQUIPMENT PROVIDED ON THIS PROJECT SHALL HAVE MANUFACTURER TERMINATIONS RATED 75°C.

F. WIRING DEVICES AND TELEPHONE/DATA OUTLETS

- THE LOCATION OF ALL WIRING DEVICES AND TELEPHONE/DATA OUTLETS SHALL BE VERIFIED BEFORE INSTALLATION WITH THE ARCHITECT. THE ARCHITECT MAY, AT HIS OPTION, RELOCATE ANY DEVICE WITHIN 5 FEET AT NO CHARGE TO THE OWNER.
- WHERE TWO OR MORE DEVICES ARE SHOWN TOGETHER ON THE PLANS, A MULTI-GANG BOX AND PLATE SHALL BE USED. DEVICES OF DIFFERENT VOLTAGES SHALL BE SEPARATED BY PERMANENTLY INSTALLED BOX PARTITIONS.
- ALL OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.
- WALL MOUNTED WIRING DEVICES SHALL BE SELECTED BY THE ARCHITECT AND EQUAL TO THE FOLLOWING:

SINGLE POLE SWITCH	HUBBELL 1221
TWO-POLE SWITCH	HUBBELL 1222
THREE-WAY SWITCH	HUBBELL 1223
DIMMER SWITCH	LUTRON NOVA SERIES
WALL SENSOR	WATTSTOPPER DUAL TECH DW-100
CEILING SENSOR	WATTSTOPPER DUAL TECH DT-300 W/B2-150 POWER PACK
WALL VACANCY SENSOR SWITCH	WATTSTOPPER CS-50
DUPLEX RECEPTACLE	HUBBELL 5352
DUPLEX RECEPTACLE WITH GFCI*	HUBBELL OF 5352
DUPLEX RECEPTACLE WITH USB	LEVITON T-5832
*GFCI - GROUND FAULT CIRCUIT INTERRUPTER	

- DEVICE PLATES AND COVERS SHALL BE SELECTED BY THE ARCHITECT.
- COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS WITH DOOR SWINGS. LOCATE LIGHT SWITCH ON LOCK SIDE OF DOOR.
- COORDINATE WALL MOUNTED TELEPHONE/DATA OUTLET LOCATIONS WITH THE ARCHITECT. TELEPHONE/DATA OUTLET CONDUCTORS WILL BE INSTALLED BY OTHERS.

G. ELECTRICAL IDENTIFICATION

- CONDUCTOR COLOR CODING: PROVIDE COLOR CODING OF FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS:

208/120 VOLTS	PHASE	480/277 VOLTS
BLACK	A	BROWN
RED	B	ORANGE
BLUE	C	YELLOW
WHITE	NEUTRAL	GRAY
GREEN	GROUND	GREEN
- APPLY EQUIPMENT IDENTIFICATION LABELS (MINIMUM 1" HIGH LETTERS) OF ENGRAVED PLASTIC-LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT.
- FOR PANELBOARDS: PROVIDE FRAMED, TYPED CIRCUIT SCHEDULES WITH EXPLICIT DESCRIPTION AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL BREAKER.

H. GROUNDING

- GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE THE NEC EXCEPT WHERE GROUNDING IN EXCESS OF NEC REQUIREMENTS IS INDICATED.
- ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUNDING CONDUCTOR.

I. FUSES

- INSTALL FUSES IN FUSIBLE DEVICES AS INDICATED.
- INSTALL TYPEWRITTEN LABELS ON THE INSIDE DOOR OF EACH FUSED SWITCH TO INDICATE FUSE REPLACEMENT INFORMATION.
- ALL FUSES SHALL BE CLASS RK-5 TIME DELAY TYPE, UNLESS OTHERWISE INDICATED.
- SPARE FUSES: FURNISH 1 SET OF 3 OF EACH FUSE TYPE AND SIZE INSTALLED.

J. DISCONNECTS AND CIRCUIT BREAKERS

- ENCLOSED FUSIBLE AND NON-FUSIBLE SWITCH SHALL BE NEMA HEAVY-DUTY TYPE WITH ENCLOSURE CONSISTENT WITH ENVIRONMENT WHERE LOCATED, HANDLE LOCKABLE WITH 2 PADLOCKS, AND INTERLOCKED WITH COVER IN "CLOSED" POSITION. ENCLOSED FUSIBLE SWITCHES SHALL BE NEMA HEAVY-DUTY TYPE WITH CLIPS TO ACCOMMODATE SPECIFIED FUSES. SWITCHES SHALL HAVE MINIMUM FAULT CURRENT RATING OF 200,000 SYMMETRICAL RMS AMPERES
- LOCATE DISCONNECT SWITCH (AND MOTOR CONTROLLER) FOR MECHANICAL EQUIPMENT TO PERMIT SERVICING OF EQUIPMENT. CHECK MOTORS FOR PROPER ROTATION. CONNECT CONDUCTORS AS REQUIRED BY MANUFACTURER.
- ENCLOSED MOLDED-CASE CIRCUIT BREAKER: FRAME SIZE, TRIP RATING, NUMBER OF POLES, AND AUXILIARY DEVICES AS INDICATED; INTERRUPTING CAPACITY RATING TO MEET AVAILABLE FAULT CURRENT, 10,000 SYMMETRICAL RMS AMPERES MINIMUM; WITH APPROPRIATE APPLICATION LISTING WHEN USED FOR SWITCHING FLUORESCENT LIGHTING LOADS OR HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT.
- ENCLOSURE: NEMA TYPE 1, UNLESS SPECIFIED OR REQUIRE OTHERWISE TO MEET ENVIRONMENTAL CONDITIONS OF INSTALLED LOCATION.
 - OUTDOOR LOCATIONS AND OTHER WET OR DAMP INDOOR LOCATIONS: TYPE 3R
- PROPERLY SUPPORT DISCONNECT OR ENCLOSED CIRCUIT BREAKER ON WALL WITH METAL FRAMING AS REQUIRED.
- PROVIDE FUSES IF REQUIRED BY MANUFACTURER OF EQUIPMENT FOR UL APPROVAL OR HACR CIRCUIT BREAKERS.
- PROVIDE DISCONNECTS BY THE SAME MANUFACTURER AS THE PANELBOARDS.

K. PANELBOARDS

- IN PANELBOARDS, "EQUIPPED SPACE" OR "SPACE" IS DEFINED TO INCLUDE ALL NECESSARY BUS, DEVICE SUPPORTS AND CONNECTIONS FOR INSERTION OF A FUTURE DEVICE.
 - ALL PANELBOARDS SHALL BE EQUIPPED WITH COMMON KEYED LOCKS. PROVIDE A MINIMUM OF TWO KEYS PER PANEL. PANELBOARDS SHALL BE COMPLETE WITH COVERS AND TRIMS AND SHALL CONTAIN A GROUND BUS. PANELBOARD BUS SHALL BE COPPER. PANELBOARD CIRCUITING SHALL MATCH THE DRAWINGS. CIRCUITING CHANGES MUST BE APPROVED BY THE ARCHITECT.
 - BEFORE ORDERING PANELBOARDS, COORDINATE ALL MOTOR CIRCUIT BREAKER TRIPS WITH MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS. COORDINATE CONDUCTOR SIZE WITH ACTUAL MOTORS AND OTHER MECHANICAL AND ARCHITECTURAL EQUIPMENT FURNISHED BEFORE INSTALLING CIRCUITRY.
 - SURFACE MOUNTED PANELBOARD CABINETS SHALL BE INSTALLED ON AN APPROVED STEEL FRAMEWORK TO DISTRIBUTE THE WEIGHT EVENLY TO THE WALL AND FLOOR AND TO PROVIDE A 1-INCH AIR SPACE BETWEEN WALL AND CABINET. PAINT FRAMEWORK WITH TWO COATS OF GRAY ENAMEL AFTER FABRICATION.
 - PANELBOARD SHALL BE EQUAL TO SQUARE D TYPE NEMO OR NQ00 UNLESS OTHERWISE NOTED.
- L. TRANSFORMERS**
- DRY-TYPE TRANSFORMERS SHALL COMPLY WITH NEMA STANDARD S120 "DRY-TYPE TRANSFORMERS FOR GENERAL APPLICATIONS".
 - GENERAL-PURPOSE, DRY-TYPE TRANSFORMERS SHALL BE EQUAL TO SQUARE D CLASS 7411 GENERAL PURPOSE TRANSFORMERS.
 - NON-LINEAR LOAD SERVICE, DRY-TYPE TRANSFORMERS SHALL BE EQUAL TO SQUARE D "NLP SERIES" WITH UL K-13 RATING.
 - TRANSFORMER SHALL BE SAME MANUFACTURER AS PANELBOARDS.

M. MOTOR CONTROLLERS

- MOTOR CONTROLLER FEATURES: PROVIDE CONTROLLERS CONSISTENT WITH THE RATINGS AND CHARACTERISTICS OF THE SUPPLY CIRCUIT, THE MOTOR, THE REQUIRED CONTROL SEQUENCE, THE DUTY CYCLE OF THE MOTOR, DRIVE AND LOAD AND THE PILOT DEVICE AND CONTROL CIRCUIT AFFECTING CONTROLLER FUNCTIONS. CONTROLLERS SHALL BE HORSEPOWER RATED TO SUIT THE MOTOR CONTROLLED.
 - CONTACTS SHALL OPEN EACH UNGROUNDED CONNECTION TO THE MOTOR.
 - OVERLOAD RELAYS: FOR MOTORS 1/2 HP OR LARGER, PROVIDE IN EACH PHASE AMBIENT COMPENSATED TYPE WITH INVERSE TIME-CURRENT CHARACTERISTIC, WITH HEATER OR SENSORS IN EACH PHASE MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF THE SPECIFIC MOTOR TO WHICH CONNECTED, WITH APPROPRIATE ADJUSTMENT FOR DUTY CYCLE.
 - ENCLOSURES FOR INDIVIDUALLY MOUNTED MOTOR CONTROLLERS AND CONTROL DEVICES: SUITABLE FOR THE ENVIRONMENTAL CONDITIONS AT THE CONTROLLER LOCATION. PROVIDE NEMA TYPE 1 ENCLOSURE EXCEPT AS OTHERWISE INDICATED.
- MANUAL MOTOR CONTROLLERS: QUICK-MATE, QUICK-BREAK TOGGLE ACTION WITH RED PILOT LIGHT AND HANDLE GUARD/LOCK OFF.
- MAGNETIC MOTOR CONTROLLERS: PROVIDE FULL-VOLTAGE, NON-REVERSING, ACROSS-THE-LINE, MAGNETIC CONTROLLER, EXCEPT WHERE ANOTHER TYPE IS INDICATED. CONTROLLERS TO BE EQUIPPED WITH 2 N.O. AND 2 N.C. AUXILIARY CONTACTS, HAND-OFF-AUTO SELECTOR SWITCH, RED AND GREEN PILOT LIGHTS.
 - CONTROL CIRCUIT: MAXIMUM 120V CONTROL POWER. PROVIDE TRANSFORMER CONSISTENT WITH CONTROL CONTACTOR VOLTAGE AND SIZE REQUIREMENTS. PROVIDE CONTROL POWER TRANSFORMER WITH ADEQUATE CAPACITY TO OPERATE CONNECTED PILOT, INDICATING AND CONTROL DEVICES, PLUS 100 PERCENT SPARE CAPACITY.
 - COMBINATION CONTROLLER* SWITCH TYPE: FUSED OR NON-FUSED AS INDICATED; QUICK-MAKE, QUICK-BREAK SWITCH FACTORY ASSEMBLED WITH CONTROLLER AND ARRANGED TO DISCONNECT IT. FOR FUSED SWITCHES, PROVIDE REJECTION-TYPE FUSE CLIPS AND FUSES RATED AS INDICATED. INTERLOCK SWITCH WITH UNIT COVER OR DOOR.

N. LIGHTING

- COORDINATE RECESSED LIGHTING FIXTURES WITH MECHANICAL EQUIPMENT AND ARCHITECTURAL CEILING PLAN. LAYOUT ON PLANS IS APPROXIMATE. ADJUST LIGHTING FIXTURES IN FIELD PER ARCHITECT.
- PROVIDE FINISHING FRAMES FOR ALL RECESSED LIGHTING FIXTURES, TYPE TO BE COMPATIBLE WITH CEILING. COORDINATE ALL FIXTURE TYPES WITH CEILING SYSTEM BEFORE ORDERING FIXTURES. PROVIDE ALL MOUNTING ATTACHMENTS FOR A COMPLETE INSTALLATION.
- ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED COMPLETE WITH LAMPS. SEE PLANS FOR SPECIFIC REQUIREMENTS.
- FIXTURES IN ANY ROOM OR COMMON AREA SHALL HAVE ALL LAMPS ORIENTED IN THE SAME DIRECTION.
- COORDINATE DIMMER CONTROLS WITH ELECTRONIC OR MAGNETIC LOW VOLTAGE LIGHTING AND LED DRIVERS PER MANUFACTURER OF LIGHTING FIXTURES AND LAMPS.
- LAMP COLOR SHALL BE 3500K OR AS SELECTED BY THE ARCHITECT.
- SUPPORT LIGHT FIXTURES FROM STRUCTURE WITH MINIMUM #12 AWG.

O. FIRE ALARM SYSTEM

- ALL FIRE ALARM SYSTEM FINAL CONNECTIONS MUST BE PERFORMED BY THE FIRE ALARM SYSTEM CONTRACTOR. PROVIDE A SET OF DRAWINGS TO THE CONTRACTOR, TO OBTAIN A PRICE FOR THE REQUIRED WORK.
- SUBMIT BIDS THAT INCLUDE ALL FIRE ALARM WORK INCLUDING EXTENDER PANELS/POWER SUPPLIES, CIRCUITS AND FLASHING LIGHT SYNCHRONIZATION MODULES (WHERE SYNCHRONIZATION IS REQUIRED BY NFPA72 SECTION 4-4), AS REQUIRED TO ACCOMMODATE THE FIRE ALARM DEVICES BEING INSTALLED UNDER THIS PROJECT.
- INCLUDE IN THE BID PRICE, THE COST TO PREPARE AND SUBMIT PLANS SEALED BY A REGISTERED PROFESSIONAL ENGINEER TO THE FIRE MARSHAL, SHOWING ALL FIRE ALARM DEVICES, CUT SHEETS, POWER SUPPLY AND BATTERY CALCULATIONS AND OTHER INFORMATION AS REQUIRED FOR FIRE MARSHALS REVIEW AND AS REQUIRED TO OBTAIN NECESSARY PERMITS AND INSPECTIONS. ARCHITECT WILL PROVIDE UP TO FOUR ADDITIONAL SETS OF THE CONTRACT DOCUMENTS ONLY. ALL OTHER INFORMATION REQUIRED BY THE LOCAL JURISDICTION IS THE CONTRACTOR'S RESPONSIBILITY.
- SUBMIT FINAL APPROVED FIRE ALARM SHOP DRAWINGS TO THE OWNER FOR RECORD PURPOSES ONLY INDICATING ALL WORK TO THE FIRE ALARM SYSTEM PERFORMED UNDER THIS CONTRACT. INCLUDE TABULATIONS OF FIRE ALARM DEVICE LOADS AND THE CAPACITY REMAINING IN THE CONTROL PANEL, ANNUNCIATOR PANEL AND BATTERIES FOLLOWING THE COMPLETION OF THIS CONTRACT.
- INSTALL ALL FIRE ALARM CONDUCTORS IN RED ELECTRICAL METALLIC TUBING (OR RED TYPE MC FIRE ALARM CABLE IF ACCEPTABLE TO THE LOCAL JURISDICTION AND BUILDING ENGINEER).
- PROVIDE ALL VISUAL ALARMS AND COMBINATION AUDIBLE/VISUAL ALARMS IN ACCORDANCE WITH NFPA 72 GUIDELINES.

P. RECORD DRAWINGS

- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF WORK.

ABBREVIATIONS

A	AMPS	LTG	LIGHTING
AIC	AMPS INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AF	ABOVE FINISHED FLOOR	MIN	MINIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAGE	(N)	NEW
C	CONDUIT	NEC	NATIONAL ELECTRIC CODE
CB	CIRCUIT BREAKERS	NFSS	NON-FUSED SAFETY SWITCH
CLG	CEILING	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	OF	OWNER FURNISHED, CONTRACTOR INSTALLED
(E)	EXISTING TO REMAIN	PB	PULL BOX
EC	EMPTY CONDUIT	(ER)	NEW LOCATION OF RELOCATED ITEM
FACP	FIRE ALARM CONTROL PANEL	RE	REMOVE FOR RELOCATION
FLA	FULL LOAD AMPS	T	TRANSFORMER
FSS	FUSED SAFETY SWITCH	TYN	TYPICAL
G	GROUND	UN	UNLESS OTHERWISE NOTED
GF	GROUND FAULT INTERRUPTER	V	VOLTS
HOA	HAND OFF AUTOMATIC	W	WATTS
HP	HORSEPOWER	WP	WEATHERPROOF
KVA	KILOVOLT AMPERE	(X)	REMOVE EXISTING EQUIPMENT
KW	KILOWATTS		

PLAN SYMBOLS

	PLAN REFERENCE NOTE SYMBOL
	LIGHTING FIXTURE DESIGNATION
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
	NEW WORK
LIGHTING	
	2'x2' LED FIXTURE
	2'x4' LED FIXTURE
	1'x4' LED FIXTURE
	WALL SCONCE
	DOWNLIGHT
EMERGENCY LIGHTING	
	2'x2' LED FIXTURE PROVIDED WITH EMERGENCY BATTERY BACK-UP
	2'x4' LED FIXTURE PROVIDED WITH EMERGENCY BATTERY BACK-UP
	1'x4' LED FIXTURE PROVIDED WITH EMERGENCY BATTERY BACK-UP
	DOWNLIGHT PROVIDED WITH EMERGENCY BATTERY BACK-UP
	EMERGENCY BATTERY WALL PACK
	EXIT LIGHT - SINGLE FACE WITH BATTERY PACK
	EXIT LIGHT - DOUBLE FACE WITH BATTERY PACK
SWITCHING	
	SINGLE POLE SWITCH +48" A.F.F.
	THREE-WAY SWITCH +48" A.F.F.
	MOTOR RATED TOGGLE SWITCH WITH THERMAL ELEMENT
	WALL SWITCH TYPE OCCUPANCY SENSOR +48" A.F.F.
	WALL SWITCH TYPE VACANCY SENSOR +48" A.F.F.
	CEILING MOUNTED OCCUPANCY SENSOR WITH POWER/RELAY PACK
	DIMMER SWITCH +48" A.F.F. (LOAD COMPATIBLE)
POWER	
	DUPLEX RECEPTACLE - WALL MOUNTED 120V, 20A +18" A.F.F.
	DUPLEX RECEPTACLE WITH BUILT-IN GROUND FAULT PROTECTION 120V, 20A +42" A.F.F. (UON)
	DUPLEX RECEPTACLE WEATHERPROOF WITH BUILT-IN GROUND FAULT PROTECTION 120V, 20A +42" A.F.F. (UON)
	DUPLEX RECEPTACLE WITH USB - WALL MOUNTED 120V, 20A +18" A.F.F.
	TAMPER RESISTANT DUPLEX RECEPTACLE - WALL MOUNTED 120V, 20A +18" A.F.F.
	QUAD RECEPTACLE - WALL MOUNTED 120V, 20A +18" A.F.F.
	SPECIAL CONFIGURATION OR VOLTAGE RECEPTACLE
	DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED 120V, 20A
	JUNCTION BOX - SIZE AS REQUIRED
	MOTOR
	DISCONNECT SWITCH, FUSED SIZE AS NOTED
	COMBINATION DISCONNECT SWITCH/MOTOR STARTER, NEMA SIZE 1, 3ø, (UON)
	PANELBOARD
	GROUND
	HOMERUN TO PANELBOARD. NUMERALS AND LETTERS ADJACENT TO ARROWHEADS INDICATE ASSIGNED PANEL AND CIRCUITS. TICK MARKS IN HOMERUN OR BRANCH CIRCUITRY INDICATE THE QUANTITY (WHERE MORE THAN TWO) OF CURRENT CARRYING CONDUCTORS. SEE PANELBOARD SCHEDULE OR DRAWINGS FOR WIRE SIZES. ALL SIZED PER NEC.
COMMUNICATIONS	
	POWER, CATV & TELE/DATA OUTLET PROVIDE BACKBOX AND EC WITH PULL CORD TO ABOVE FINISHED CEILING. MOUNTING HEIGHT TO BE DETERMINED BY AVL ENGINEER. IG = ISOLATE GROUNDING CONFIGURATION FOR POWER RECEPTACLE
	TELEPHONE/DATA OUTLET, +18" A.F.F. PROVIDE BACKBOX AND 1" EC WITH PULL CORD TO ABOVE FINISHED CEILING.
	TELEPHONE/DATA OUTLET. FLUSH FLOOR MOUNTED. PROVIDE BACKBOX AND 1" EC WITH PULL CORD TO ABOVE FINISHED CEILING.
FIRE ALARM	
	FIRE ALARM PULL STATION - +48" A.F.F. (UON)
	ADA VISUAL FIRE ALARM ANNUNCIATOR. VISUAL CANDELA RATING SHALL BE 15CD UNLESS OTHERWISE NOTED. CEILING MOUNTED
	ADA AUDIO-VISUAL FIRE ALARM ANNUNCIATOR. VISUAL CANDELA RATING SHALL BE 15CD UNLESS OTHERWISE NOTED. CEILING MOUNTED
	SMOKE DETECTOR
	SPRINKLER SYSTEM WATER FLOW SWITCH
	SPRINKLER SYSTEM TAMPER SWITCH

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Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

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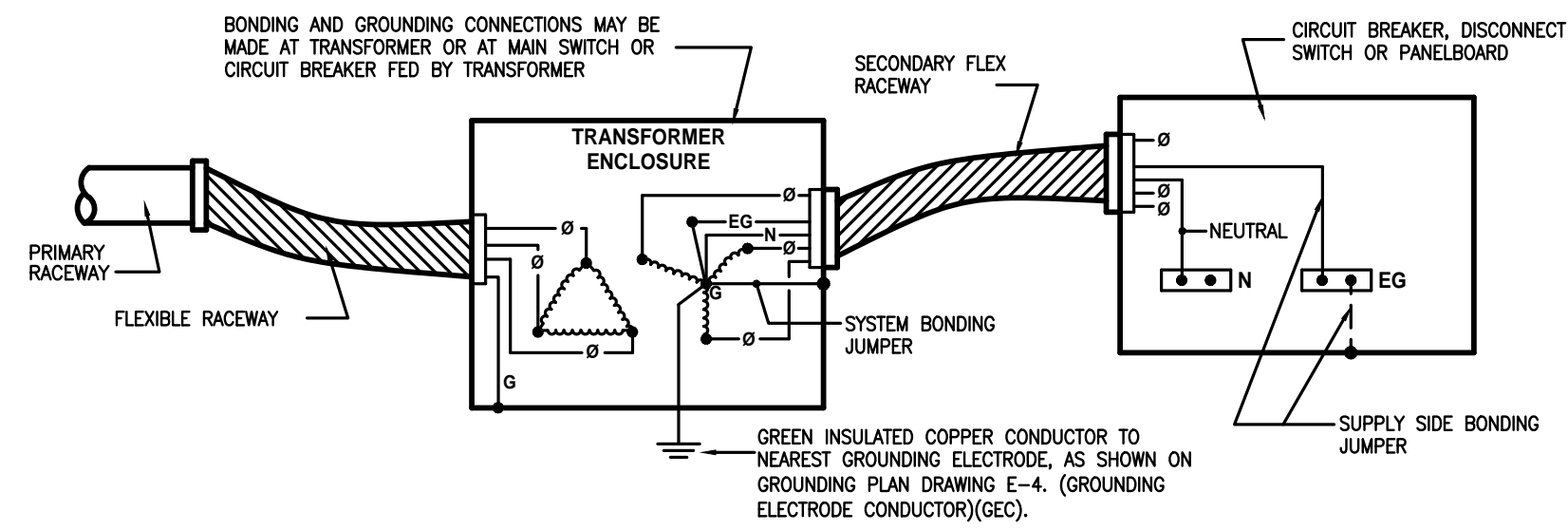
NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

DRAWING	DATE
<input type="checkbox"/> DD MEETING #1	07/16/2019
<input type="checkbox"/> DD MEETING #2	09/06/2019
<input type="checkbox"/> DD MEETING #3	10/06/2023
<input type="checkbox"/> BID SET	11/15/2023
<input checked="" type="checkbox"/> AVL COORD / BID SET	01/31/2024
<input type="checkbox"/> PERMIT SET	

REVISIONS/ADDENDUMS

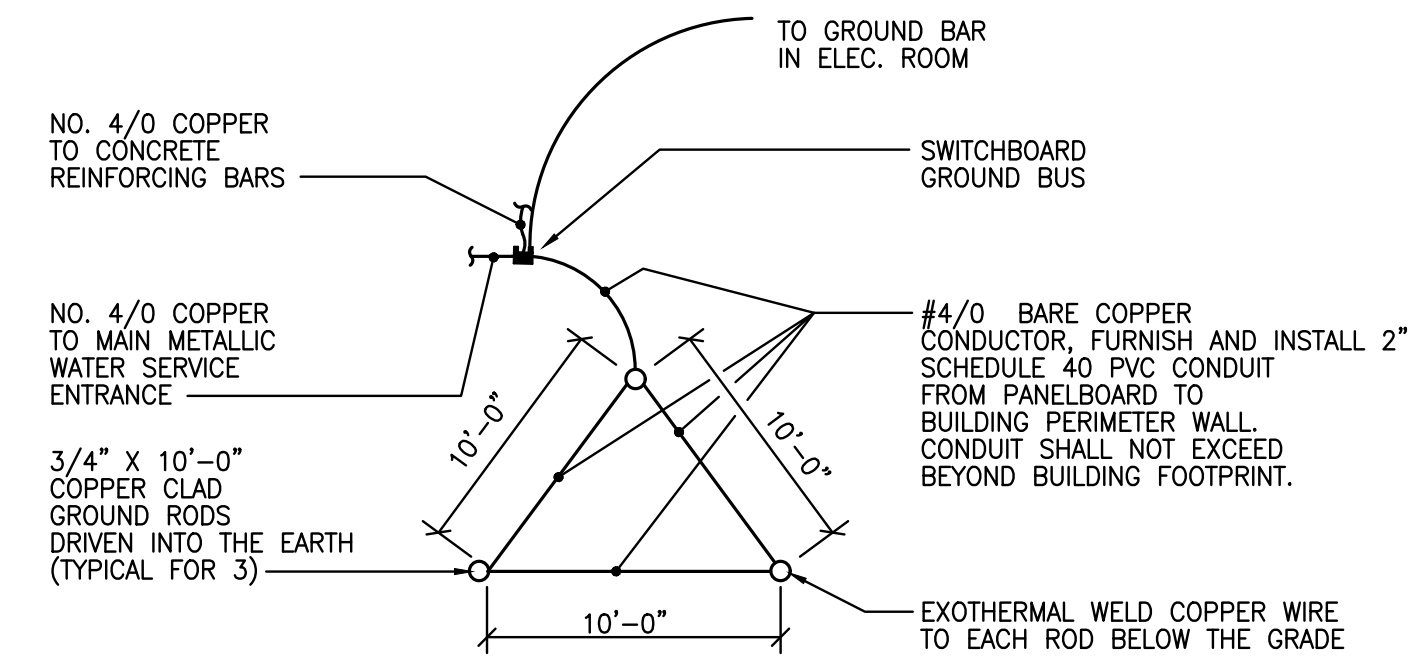
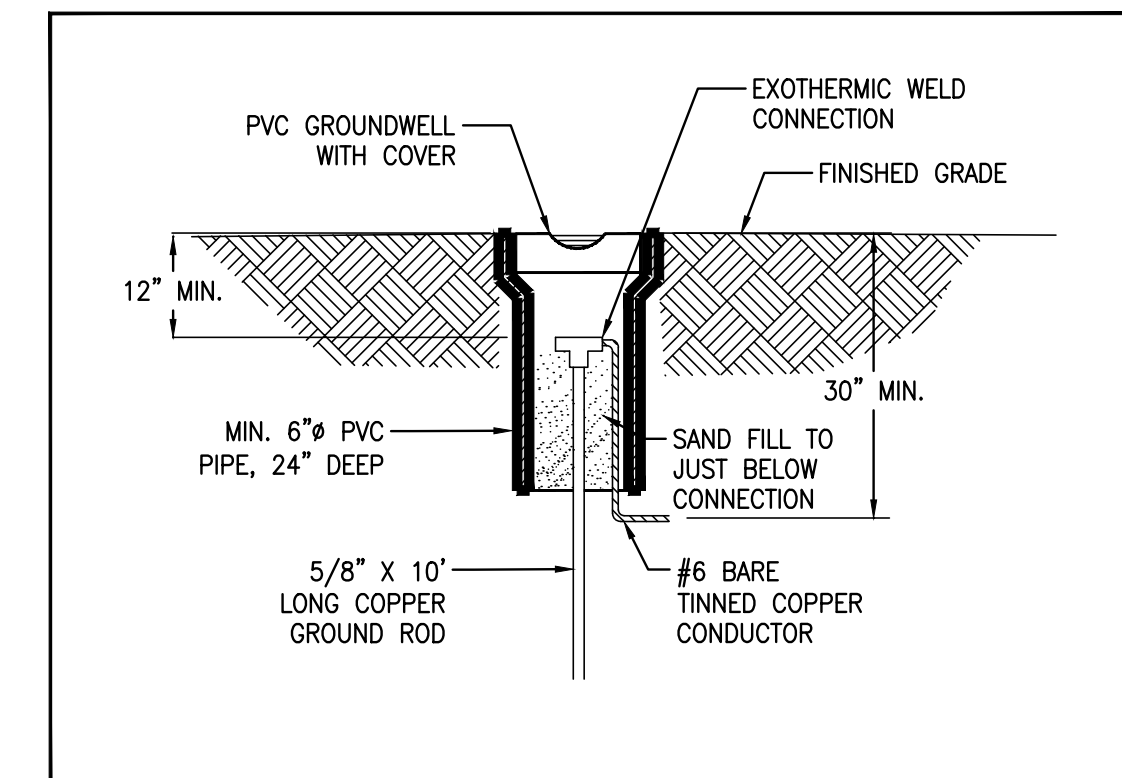
SPECIFICATIONS,
 SYMBOLS, AND
 ABBREVIATIONS

E001
 OF SHEETS



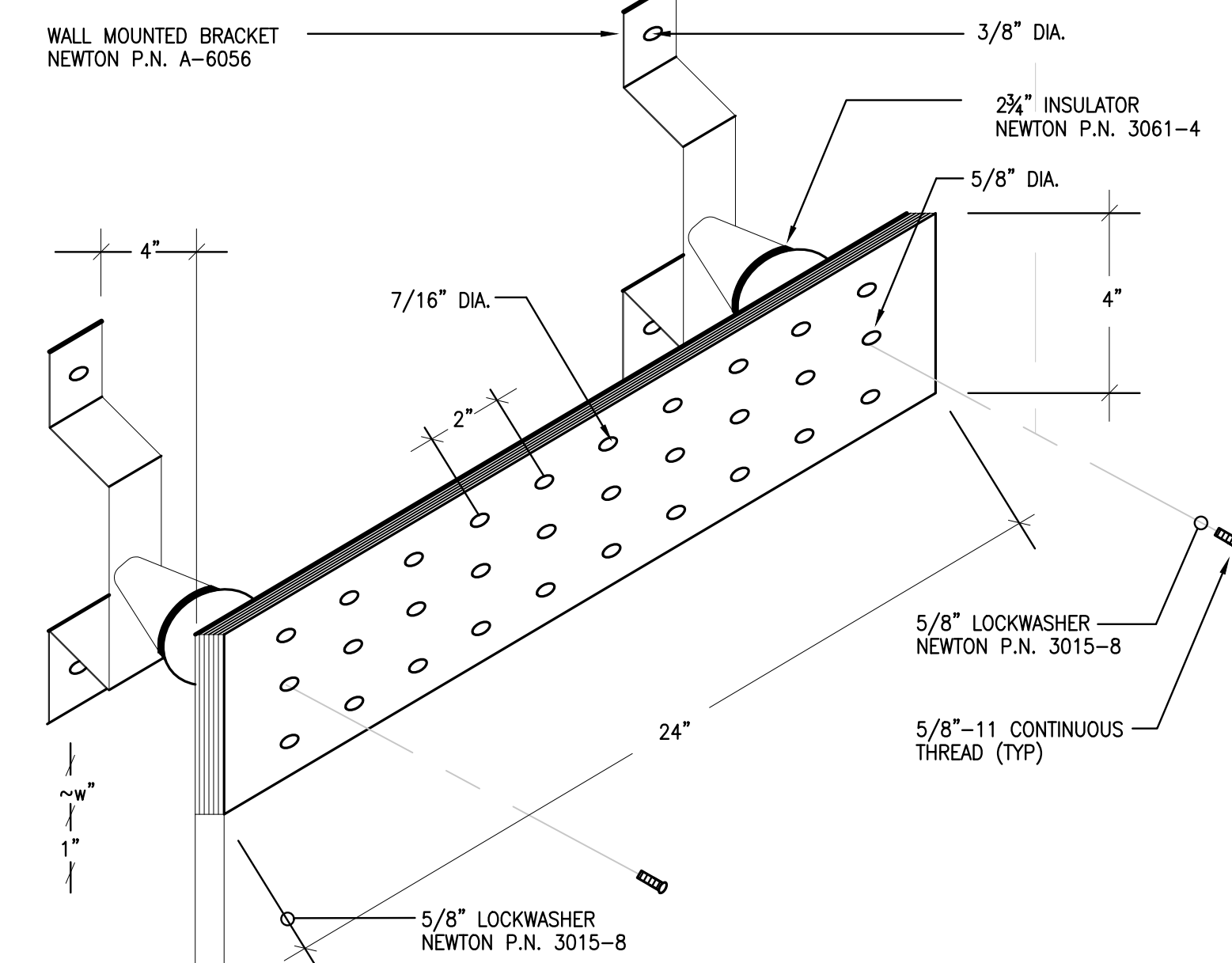
05 **TRANSFORMER GROUNDING DETAIL**
Scale: Not To Scale

TRANSFORMER SIZE	PRIMARY					SECONDARY					GROUNDING ELECTRODE CONDUCTOR	MOUNTED
	PHASE	VOLTS	CIRCUIT BREAKER	FEEDER	GROUND	VOLTS	CIRCUIT BREAKER	FEEDER	SYSTEM/SUPPLY SIDE BNDG JUMPER	CONDUIT		
15 KVA DRY-TYPE	3	480	30A	3#10	#10	120/208	50A	4#6	#8	1.25" FLEX C	#8 IN 0.75"	WALL
30 KVA DRY-TYPE	3	480	50A	3#8	#10	120/208	100A	4#2	#6	1.5" FLEX C	#6 IN 0.75"	FLOOR
45 KVA DRY-TYPE	3	480	70A	3#4	#8	120/208	125A	4#1/0	#6	2" FLEX C	#6 IN 0.75"	FLOOR
75 KVA DRY-TYPE	3	480	125A	3#1	#6	120/208	250A	250 kcmil	#2	3" FLEX C	#2 IN 0.75"	FLOOR
112.5 KVA DRY-TYPE	3	480	200A	3#3/0	#6	120/208	400A	4-500 kcmil	#1/0	4" FLEX C	#1/0 IN 0.75"	FLOOR
150 KVA DRY-TYPE	3	480	225A	3#4/0	#4	120/208	500A	2 SETS OF 250 kcmil	#3/0	(2)3" FLEX C	#3/0 IN 1"	FLOOR

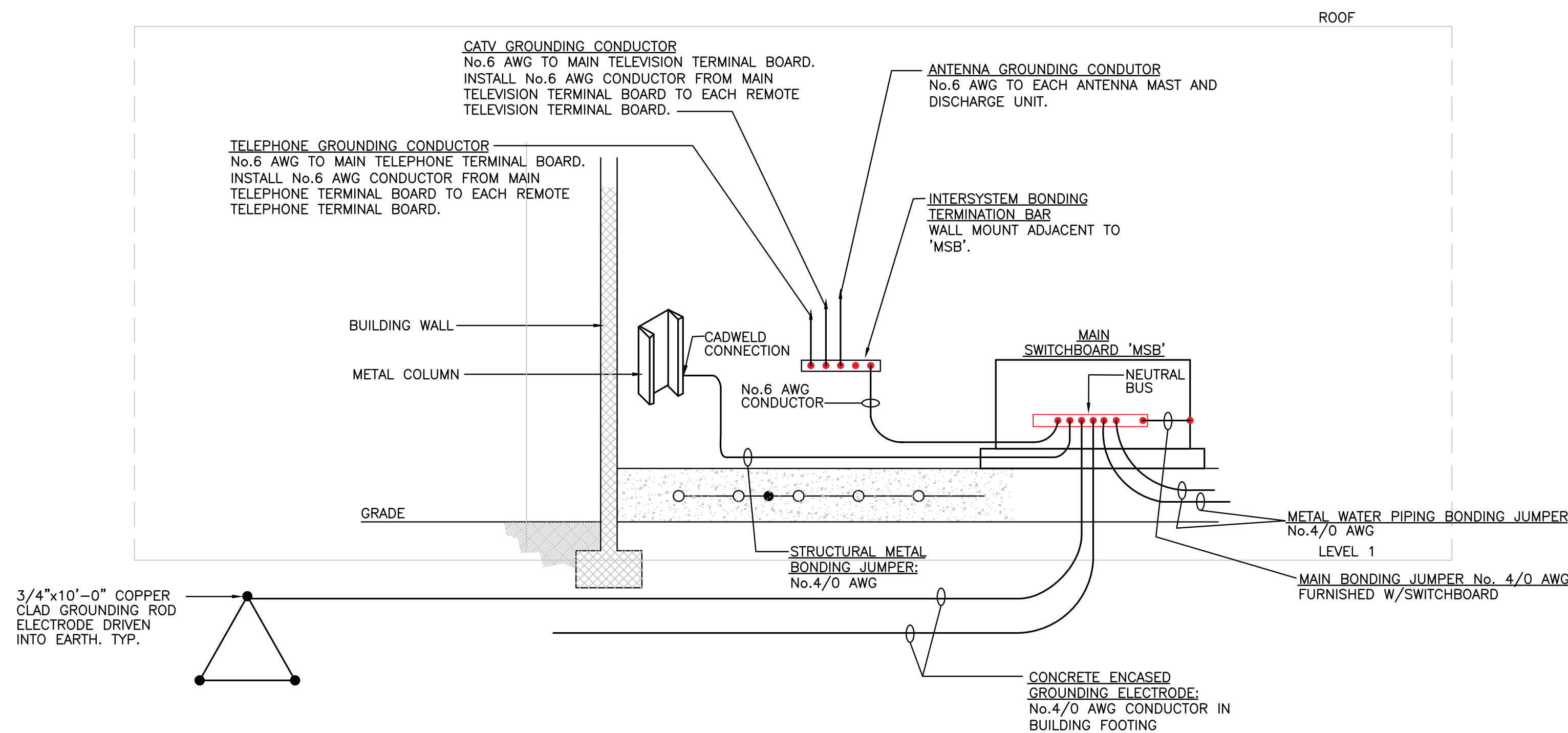


NOTE:
FURNISH AND INSTALL ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE 25 OHMS OR LESS RESISTANCE. RODS SHALL BE LOCATED IN UNPAVED AREAS.

MAIN SERVICE GROUND DETAIL
NO SCALE



GROUND BAR DETAIL
SCALE: NTS



ELECTRICAL SERVICE GROUNDING SYSTEM DETAIL
SCALE: NONE

- NOTES:**
- ALL CONDUCTORS AND JUMPERS SHALL BE COPPER.
 - CONDUCTORS AND JUMPERS ROUTED THROUGH FLOOR SLABS AND IN EARTH SHALL BE INSTALLED IN RIGID PVC CONDUIT.
 - ALL GROUNDING AND BONDING CONNECTIONS SHALL BE ACCESSIBLE AND LOCATED ADJACENT TO VALVES, BACKFLOW PREVENTER AND GAS METER AS SHOWN.
 - CONDUCTOR OR JUMPER INSTALLED IN METALLIC RACEWAY SHALL BE BONDED TO RACEWAY AT EACH END IN ACCORDANCE WITH N.E.C.

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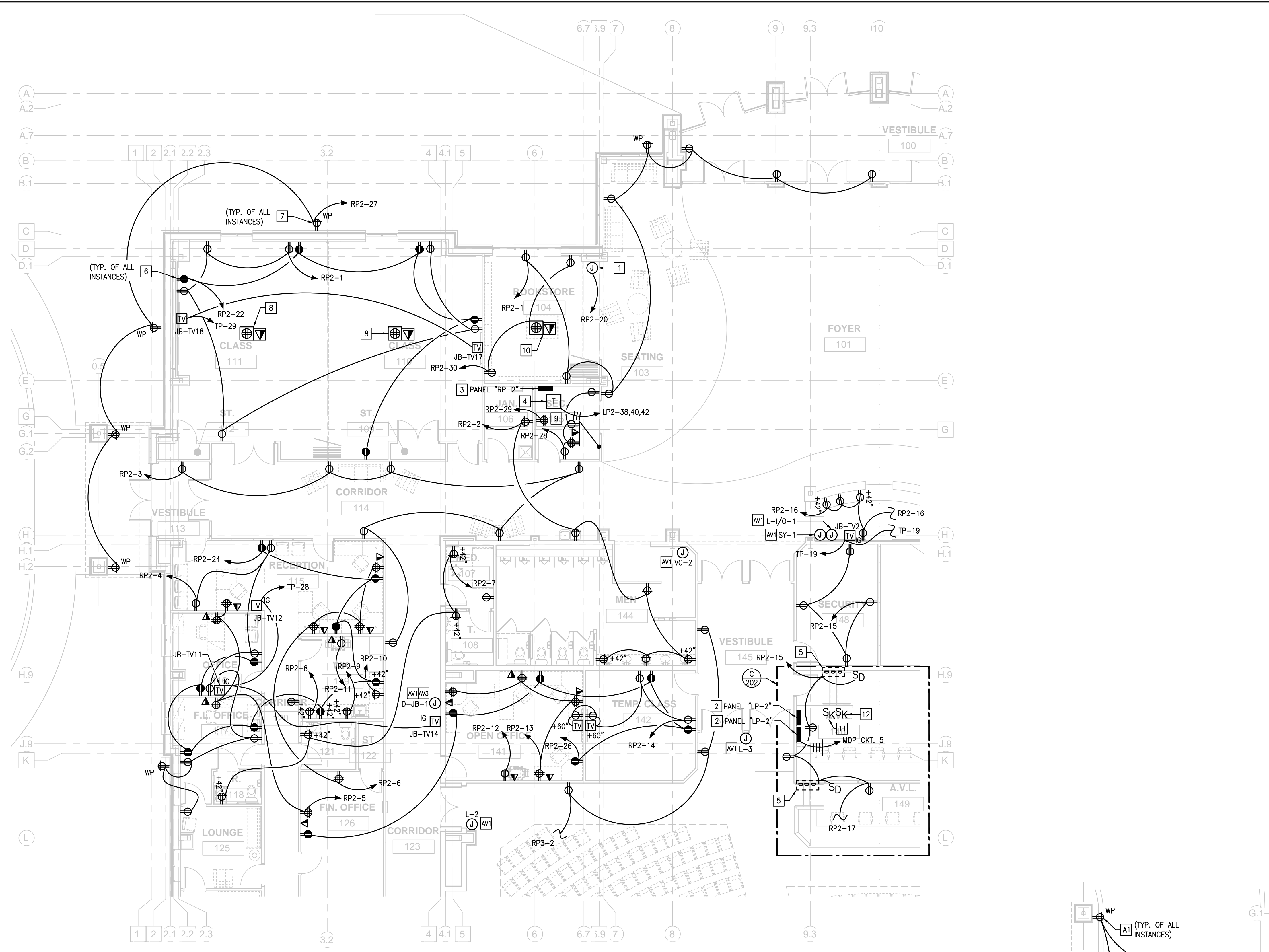
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6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

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<input checked="" type="checkbox"/> AVL COORD / BID SET	01/31/2024
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REVISIONS/ADDENDUMS

GROUNDING DETAILS

E003
OF SHEETS

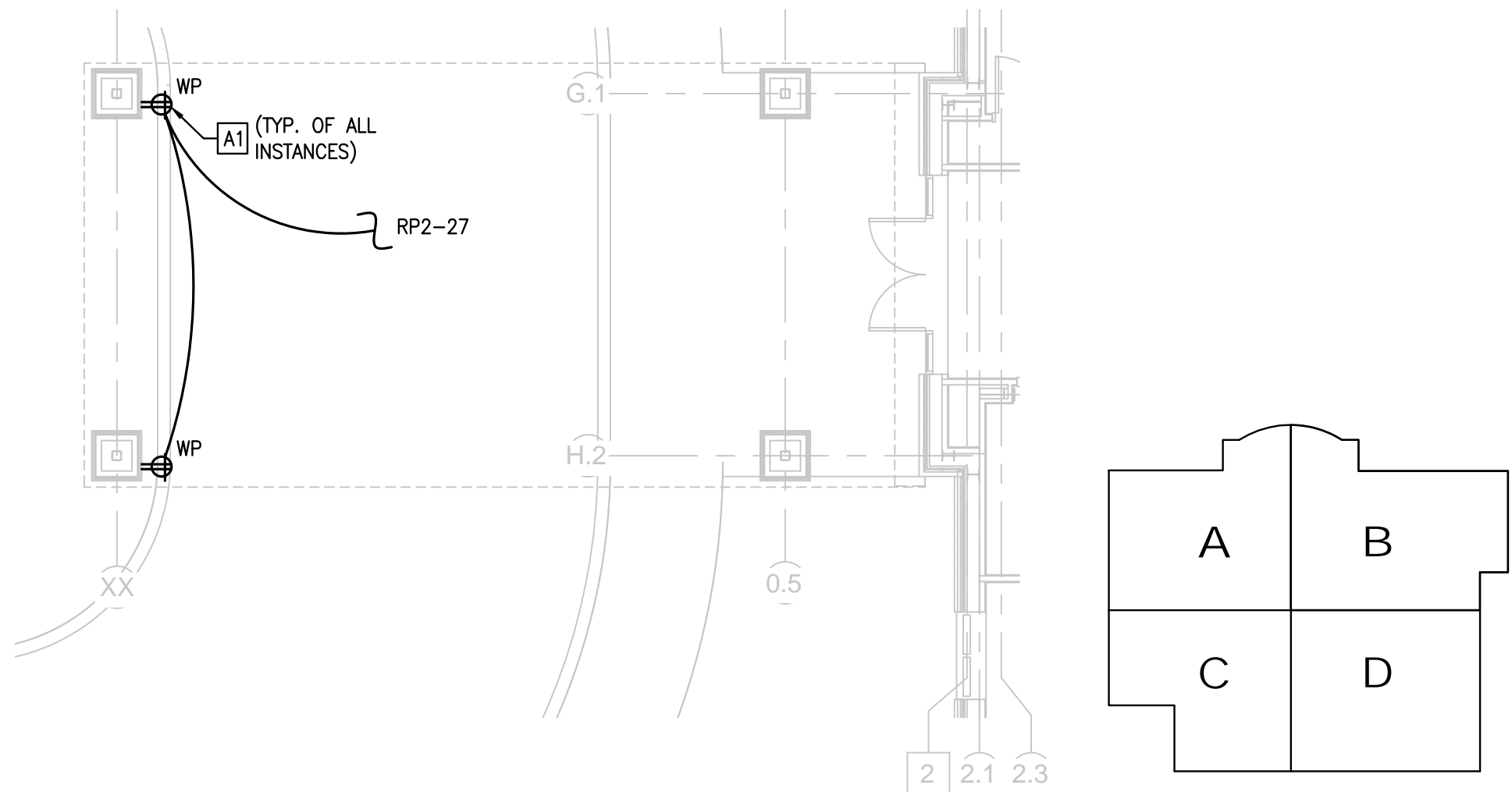


PARTIAL FLOOR PLAN - SECTION 'A' POWER
SCALE: 1/8" = 1'-0"

ADD ALTERNATE #1 NOTES

NOTE: ALL ADD ALTERNATE WORK SHALL BE PROVIDED AS A SEPARATE LINE ITEM FOR BIDDING PURPOSES.

A1 PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS. EXTEND CIRCUITRY TO NEARBY OUTDOOR GFCI CIRCUIT, DESIGNATED AS SHOWN.



ADD ALTERNATE #1 - SECTION 'A' POWER
SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: REFER TO AVL DRAWING PACK SHEET AV-0.1 FOR A "DIVISION OF LABOR" MATRIX, DETAILING THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, AV CONTRACTOR, AND OWNER AVL SCOPE OF WORK RESPONSIBILITIES. IT IS IMPERATIVE THAT THE ELECTRICAL CONTRACTOR REFER TO BOTH THE ELECTRICAL DRAWING SET AND THE AVL DRAWING SET TO ENSURE AN ACCURATE UNDERSTANDING OF THE ELECTRICAL CONTRACTOR SCOPE OF WORK.

POWER PLAN NOTES

- 1 PROVIDE JUNCTION BOX FOR OVERHEAD ROLLUP DOOR. COORDINATE FINAL INSTALLATION LOCATION WITH ROLLUP DOOR VENDOR AND ARCHITECT.
- 2 PANEL "LP-2". 277/480V, 250A MCB, 65KAIC, 84-CCT, TWO-SECTION PANEL, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE SIX (6) SPARE 1" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
- 3 PANEL "RP-2". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
- 4 CEILING-SUSPENDED TRANSFORMER "T-RP2". 30KVA, 480/120/208V, 3Φ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
- 5 PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.
- 6 AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.
- 7 PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS.
- 8 PROVIDE NEW 4-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEGRAND TYPE RFB4, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE TWO (2) DUPLEX RECEPTACLES, ONE (1) HDMI CONNECTOR, AND (1) RJ45 CONNECTOR. ALL EMBEDDED CONDUIT SHALL BE RNC. CONTRACTOR SHALL INSTALL A 1" RNC CONDUIT FROM FLOOR BOX TO TV BACKBOX IN ROOM. INSTALL A 1" RNC CONDUIT FROM FLOOR BOX TO STUB UP ABOVE NEAREST WALL FOR THE PURPOSE OF RUNNING DATA CABLING.
- 9 PROVIDE QUAD RECEPTACLE MOUNTED INSIDE SECURITY PANEL. SECURITY PANEL PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING LOCATION WITH SECURITY CONTRACTOR.
- 10 PROVIDE NEW 4-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEGRAND TYPE RFB4, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE TWO (2) DUPLEX RECEPTACLES, AND (2) RJ45 CONNECTORS. ALL EMBEDDED CONDUIT SHALL BE RNC. INSTALL A 1" RNC CONDUIT FROM FLOOR BOX TO STUB UP ABOVE NEAREST WALL FOR THE PURPOSE OF RUNNING DATA CABLING. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO START OF CONSTRUCTION.
- 11 PROVIDE LYNTEC SS-2DPL FOR RELAY PANEL #1 KEYPED POWER OVERRIDE SWITCH. PROVIDE CAT6 CABLE IN 1" C. FROM SWITCH TO RELAY PANEL #1. MOUNT INSIDE HINGED ENCLOSURE, LABELED LINE 1: "RELAY PANEL #1", LINE 2: "AUDITORIUM AUDIO".
- 12 PROVIDE LYNTEC SS-2DPL FOR RELAY PANEL #2 KEYPED POWER OVERRIDE SWITCH. PROVIDE CAT6 CABLE IN 1" C. FROM SWITCH TO RELAY PANEL #2. MOUNT INSIDE HINGED ENCLOSURE, LABELED LINE 1: "RELAY PANEL #2", LINE 2: "AUDITORIUM LIGHTING".

AVL PLAN NOTES

- AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.
- AV2 JUNCTION BOX SHALL BE INSTALLED BY EC, PROVIDED BY OTHERS. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.
- AV3 PROVIDE (1) 2" CHASE NIPPLE IN BACK BOX.
- AV4 PROVIDE (3) 2" CHASE NIPPLES IN BACK BOX.

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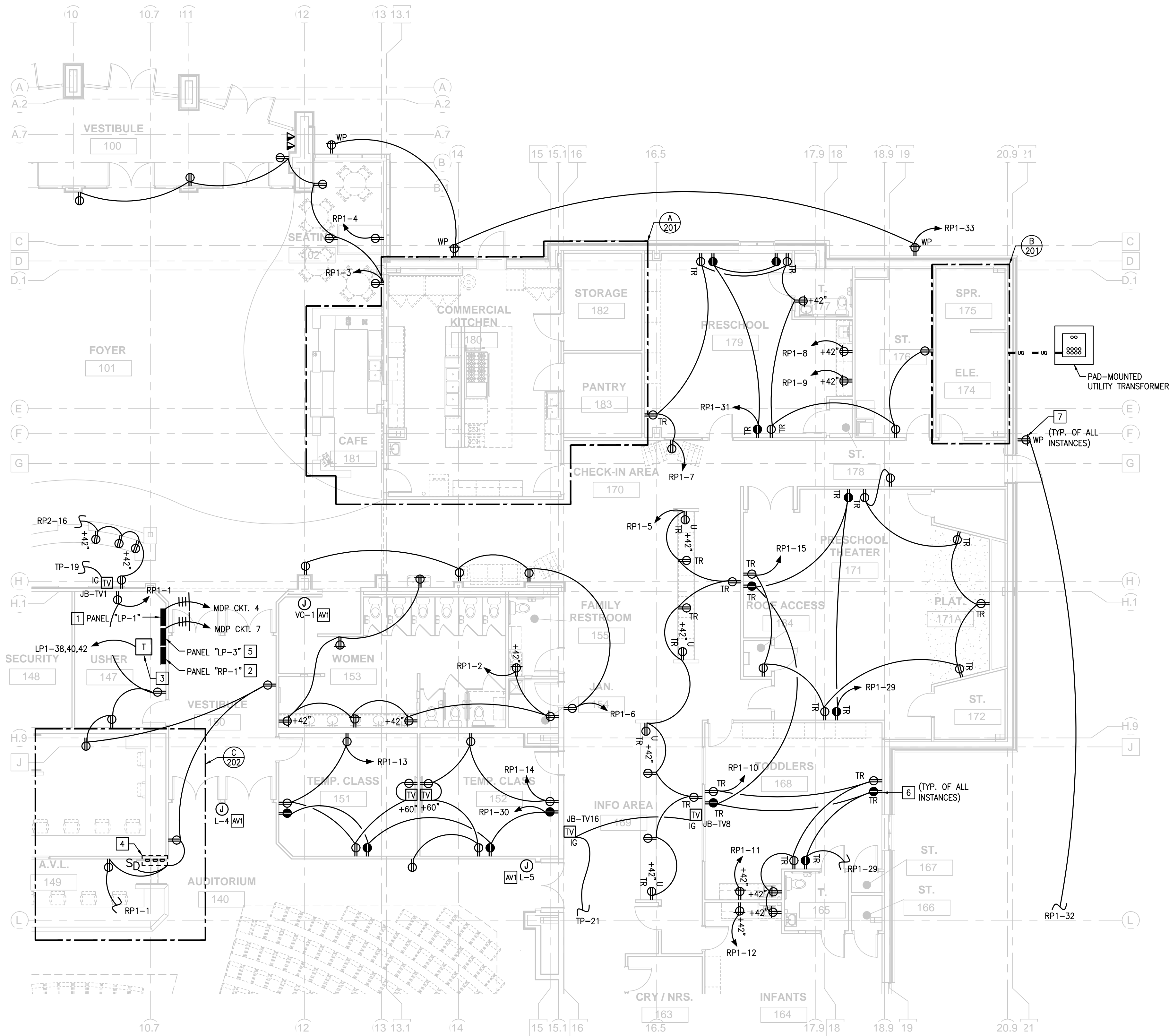
NEW BUILDING FOR:
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REVISIONS/ADDENDUMS

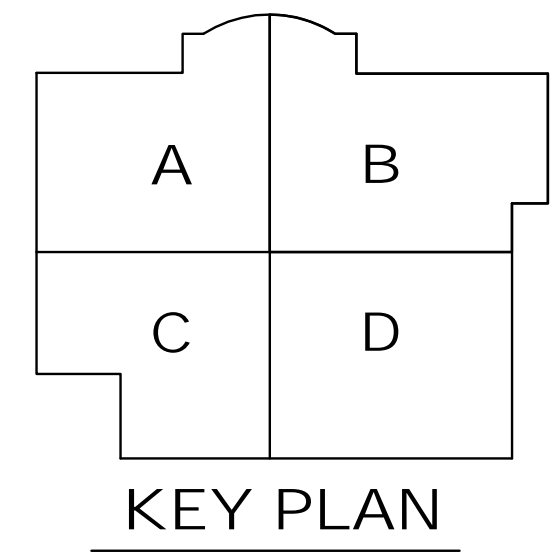
FIRST FLOOR PLAN
SECTION 'A'
POWER

E101
OF SHEETS
216118



PARTIAL FLOOR PLAN - SECTION 'B' POWER

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



AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALL AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

POWER PLAN NOTES

- 1 PANEL "LP-1". 277/480V, 250A MLO, 65KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE SIX (6) SPARE 1" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
- 2 PANEL "RP-1". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
- 3 CEILING-SUSPENDED TRANSFORMER "T-RP1". 30KVA, 480/120/208V, 3Φ, 4W, COPPER CORE. SQUARE D TYPE EXAN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
- 4 PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.
- 5 PANEL "LP-3". 277/480V, 250A MLO, 65KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE SIX (6) SPARE 1" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
- 6 AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.
- 7 PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS.

AVL PLAN NOTES

- AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.
- AV2 JUNCTION BOX SHALL BE INSTALLED BY EC, PROVIDED BY OTHERS. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.

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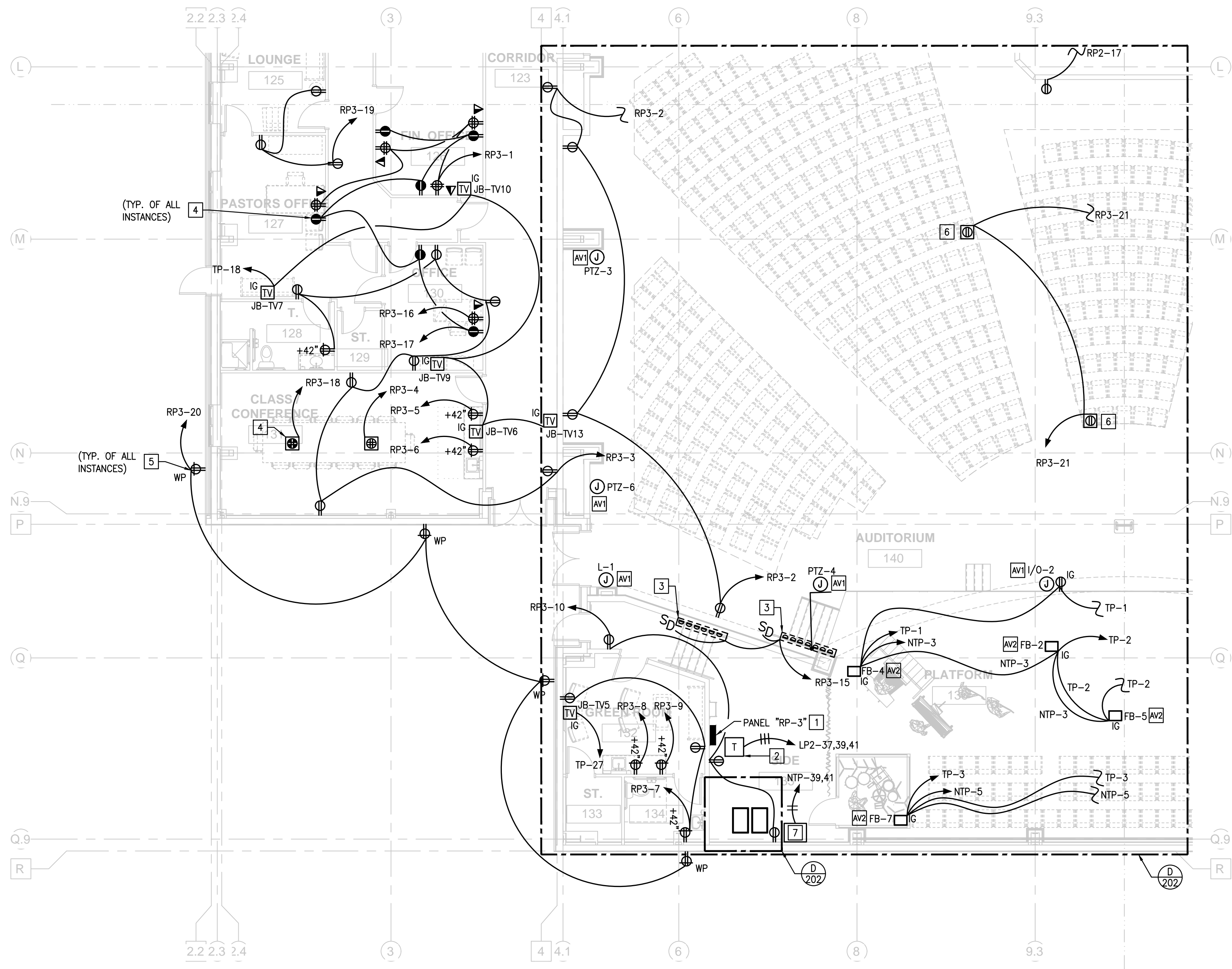
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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 SECTION 'B'
 POWER

E102
 OF SHEETS
 216118



PARTIAL FLOOR PLAN - SECTION 'C' POWER
SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

POWER PLAN NOTES

- 1 PANEL "RP-3". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
- 2 CEILING-SUSPENDED TRANSFORMER "T-RP3". 30KVA, 480:120/208V, 3Φ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
- 3 PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.
- 4 AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.
- 5 PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS.
- 6 PROVIDE NEW 1-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEVITON TYPE FB1D1, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE ONE (1) DUPLEX RECEPTACLE. ALL EMBEDDED CONDUIT SHALL BE RNC.
- 7 PROVIDE EMERGENCY LIGHTING INVERTER "EM INV". IOTA TYPE IIS-3750-208IN-120OUT-ST WITH BREAKER PACKAGE 12-1P120-20AMP-ON, OR APPROVED EQUAL.

AVL PLAN NOTES

- AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.
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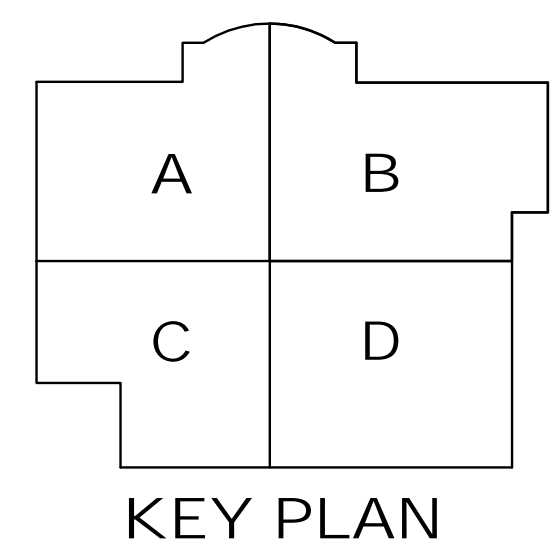
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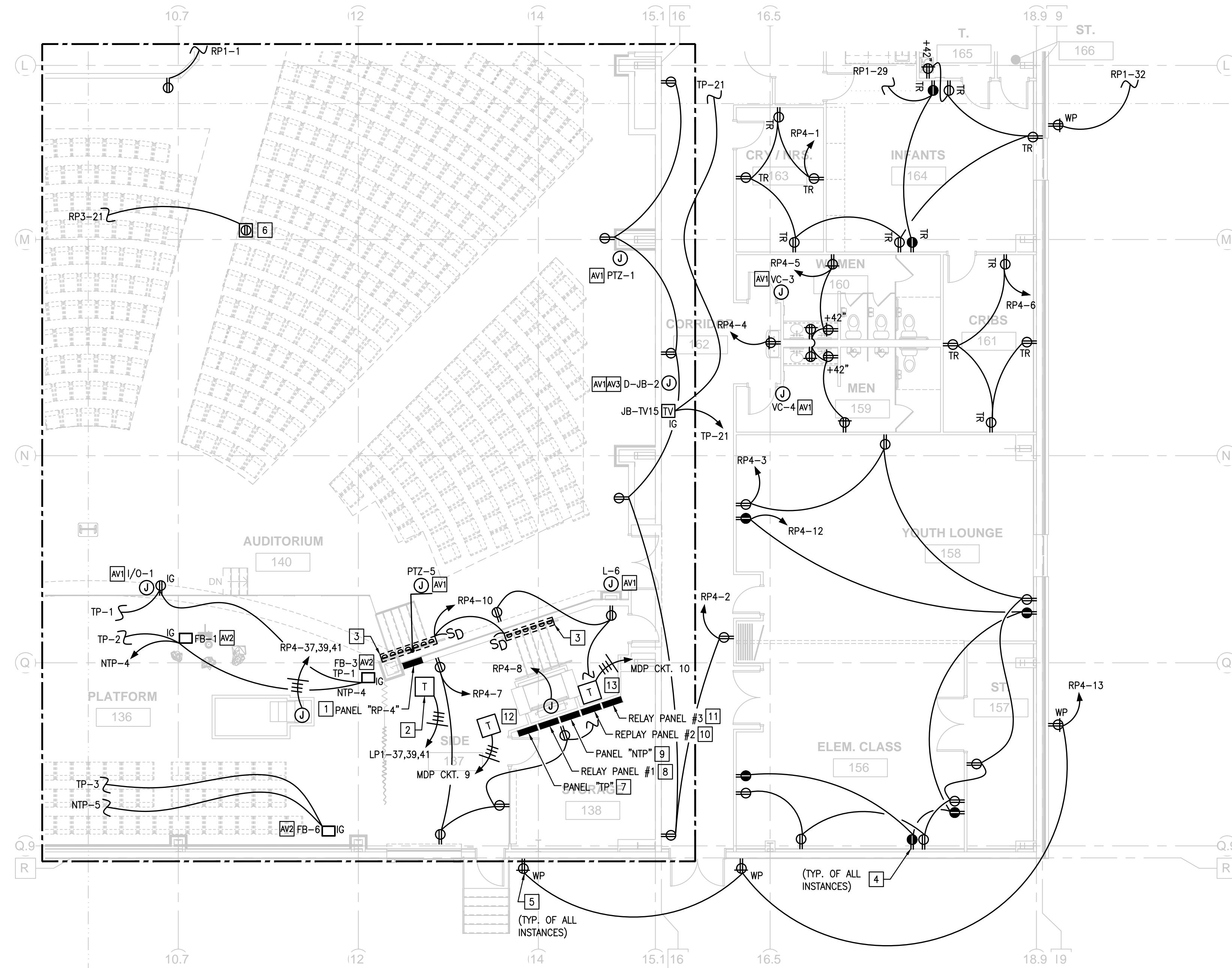
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REVISIONS/ADDENDUMS



FIRST FLOOR PLAN
SECTION 'C'
POWER

E103
OF SHEETS
216118



PARTIAL FLOOR PLAN -- SECTION 'D' POWER
 SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

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POWER PLAN NOTES

- 1 PANEL "RP-4". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PANEL SHALL BE RECESSED IN WALL. PROVIDE TWO (2) SPARE 1" AND SIX (6) SPARE 3/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE USE. SPARE CONDUITS SHALL HAVE PULL STRINGS TIED OFF FOR FUTURE USE.
- 2 CEILING-SUSPENDED TRANSFORMER "T-RP4". 30KVA, 480:120/208V, 3Φ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
- 3 PROVIDE STAIR LIGHTING WITH COMPATIBLE DIMMER SWITCH, PER MANUFACTURER'S RECOMMENDATIONS.
- 4 AUTOMATIC CONTROLLED RECEPTACLE SHALL BE CONTROLLED BY LOCAL 0-10V OCCUPANCY SENSOR, ROUTED THROUGH AN APPROPRIATELY RATED POWER PACK. CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AS THE LIGHTING CONTROLS TO ENSURE COMPATIBILITY. PROVIDE RECEPTACLE SPECIFICALLY MARKED WITH THE "CONTROLLED" SYMBOL TO MEET IECC 2018 C405.11.
- 5 PROVIDE GFCI DUPLEX RECEPTACLE IN "WHILE-IN-USE" WEATHERPROOF ENCLOSURE FOR OUTDOOR CONVENIENCE POWER. CONTRACTOR SHALL WIRE RECEPTACLE SO THAT A GROUND FAULT INCIDENT DOES NOT DISCONNECT POWER FROM DOWNSTREAM DEVICES. DEVICE AND ENCLOSURE FINISH SHALL BE PER ARCHITECT'S REQUIREMENTS.
- 6 PROVIDE NEW 1-GANG CONCRETE FLOOR BOX WITH "WHILE-IN-USE" FLUSH COVER PLATE. LEVITON TYPE FB1D1, OR APPROVED EQUAL. FLOOR BOX SHALL ACCOMMODATE ONE (1) DUPLEX RECEPTACLE. ALL EMBEDDED CONDUIT SHALL BE RNC.
- 7 PANEL "TP". 120/208V, 150A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PROVIDE PANEL WITH GROUND BAR AND ISOLATED GROUND BAR. ISOLATED GROUND SHALL BE CONNECTED PER SHEET AV-0.3 GROUNDING DETAIL. PROVIDE 1" CONDUIT BETWEEN PANEL AND RELAY PANEL #1.
- 8 PROVIDE RELAY PANEL #1 LYNTEC PDS12, FOR SUPPLYING POWER TO AUDITORIUM AUDIO. SEE SHEET AV-6.3 FOR SPECIFIC BOARD REQUIREMENTS. PROVIDE CAT-6 CABLE TO LYNTEC OVERRIDE SWITCH IN AVL BOOTH.
- 9 PANEL "NTP". 120/208V, 100A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ442L2C, OR APPROVED EQUAL. PROVIDE 1" CONDUIT BETWEEN PANEL AND RELAY PANEL #2.
- 10 PROVIDE RELAY PANEL #2 LYNTEC PDS12, FOR SUPPLYING POWER TO AUDITORIUM AUDIO. SEE SHEET AV-6.3 FOR SPECIFIC BOARD REQUIREMENTS. PROVIDE CAT-6 CABLE TO LYNTEC OVERRIDE SWITCH IN AVL BOOTH.
- 11 PROVIDE RELAY PANEL #3 LYNTEC PDS12-8, FOR SUPPLYING POWER TO AUDITORIUM AUDIO. SEE SHEET AV-6.3 FOR SPECIFIC BOARD REQUIREMENTS. PROVIDE ADDITIONAL 1" CONDUIT BETWEEN RELAY #2 AND RELAY #3 FOR FURTHER POWER OVERRIDE COMMUNICATIONS CABLING.
- 12 CEILING-SUSPENDED TRANSFORMER "T-TP". 45KVA, 480:120/208V, 3Φ, 4W, COPPER CORE. SQUARE D TYPE EXN45T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.
- 13 CEILING-SUSPENDED TRANSFORMER "T-NTP". 30KVA, 480:120/208V, 3Φ, 4W, COPPER CORE. SQUARE D TYPE EXN30T3HCU, OR APPROVED EQUAL. SUSPEND TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.

AVL PLAN NOTES

- AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.
- AV2 JUNCTION BOX SHALL BE INSTALLED BY EC, PROVIDED BY OTHERS. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD. SEE SHEET AV-6.5 FOR CONDUIT SIZING AND ROUTING.
- AV3 PROVIDE 2" CHASE NIPPLE IN BACK BOX.

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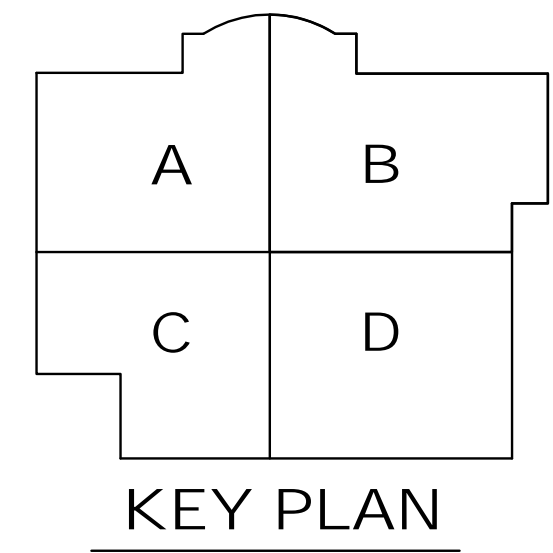
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 Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

DRAWING	DATE
<input type="checkbox"/> DD MEETING #1	07/16/2019
<input type="checkbox"/> DD MEETING #2	09/06/2019
<input type="checkbox"/> DD MEETING #3	10/06/2023
<input type="checkbox"/> BID SET	11/15/2023
<input checked="" type="checkbox"/> AVL COORD / BID SET	12/08/2023
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REVISIONS/ADDENDUMS



FIRST FLOOR PLAN
 SECTION 'D'
 POWER

E104
 OF SHEETS
 216118

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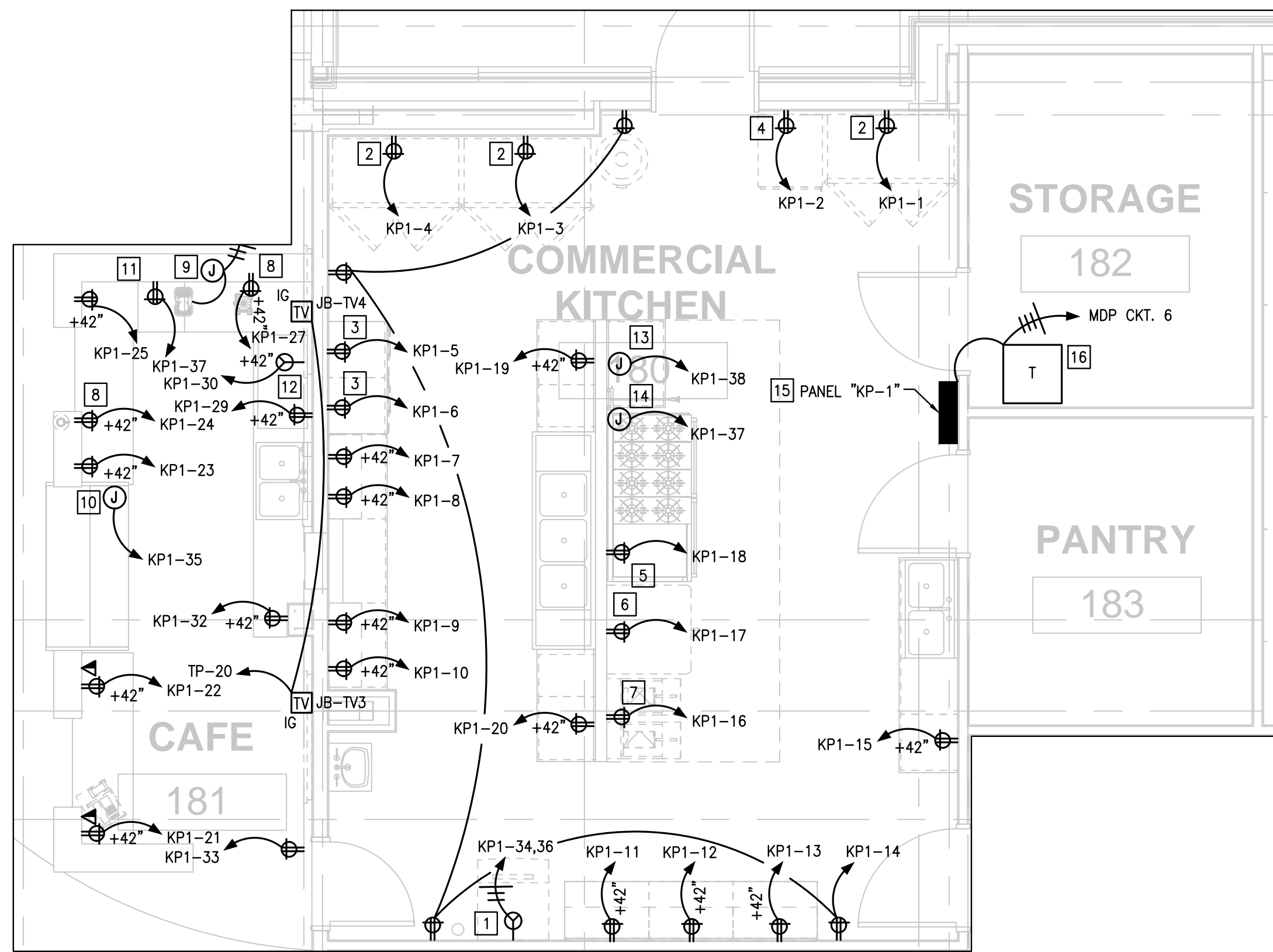
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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 ENLARGED PLANS
 POWER

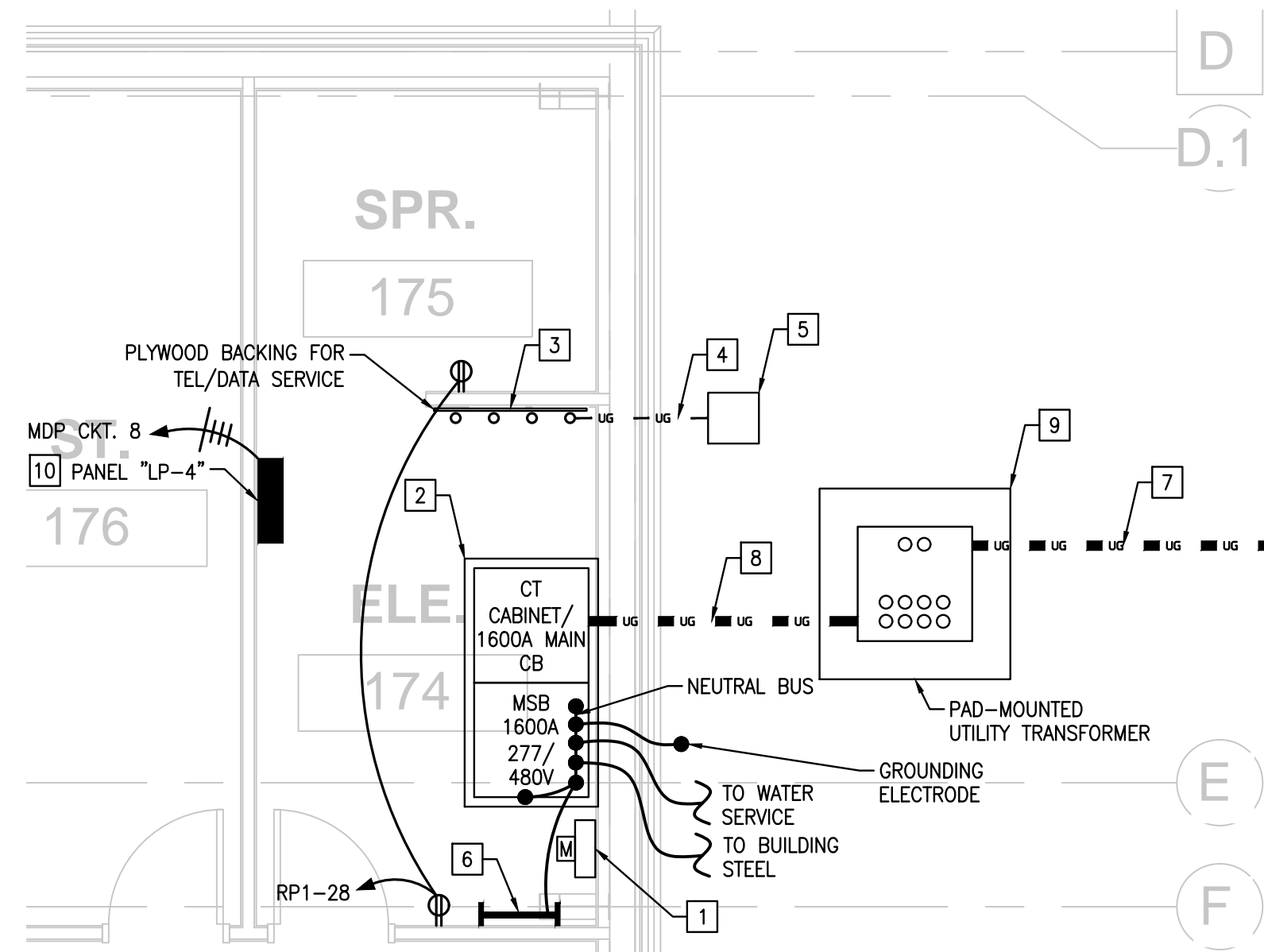
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(A) PARTIAL FLOOR PLAN - KITCHEN/CAFE POWER
 SCALE: 1/4" = 1'-0"

POWER PLAN NOTES

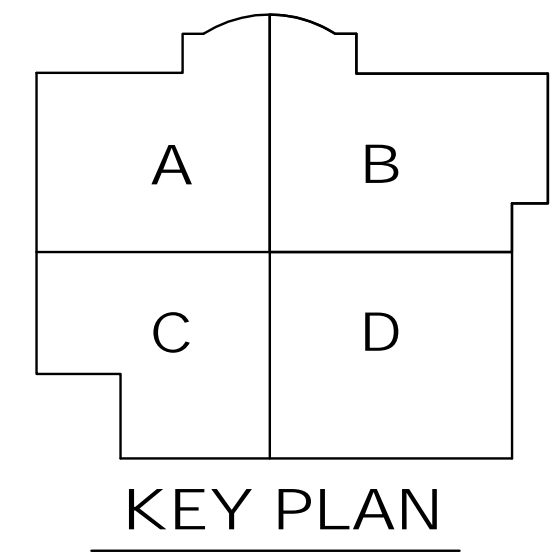
- 1 PROVIDE DEDICATED DUPLEX RECEPTACLES FOR ICE MACHINE. 208V, 1 ϕ , 12.2A, 20A MOCP, WITH NEMA 6-20R RECEPTACLE.
- 2 PROVIDE DEDICATED DUPLEX RECEPTACLE FOR REFRIGERATOR/FREEZER. 120V, 1 ϕ , 5.4A.
- 3 PROVIDE DEDICATED DUPLEX RECEPTACLE FOR UNDERCOUNTER DISHWASHER. 120V, 1 ϕ , 15.4A.
- 4 PROVIDE DEDICATED DUPLEX RECEPTACLE FOR MOBILE WARMING CABINET. 120V, 1 ϕ , 12.5A.
- 5 PROVIDE DEDICATED DUPLEX RECEPTACLE FOR RANGE AND OVEN. 120V, 1 ϕ , 4A.
- 6 PROVIDE DEDICATED DUPLEX RECEPTACLE FOR DOUBLE DECK CONVECTION OVEN. 120V, 1 ϕ , 15.4A.
- 7 PROVIDE DUPLEX RECEPTACLE FOR FRYER. 120V, 1 ϕ , 1.5A.
- 8 PROVIDE DEDICATED DUPLEX RECEPTACLE FOR BLENDER. 120V, 1 ϕ , 15A.
- 9 PROVIDE JUNCTION BOX FOR COFFEE MAKER. 208V, 1 ϕ , 3W + G, 3.55KW, IN A HARDWIRED CONFIGURATION. CONTRACTOR SHALL PROVIDE NECESSARY JUNCTION BOX IN ORDER TO ROUTE CABLING TO FINAL LOCATION. CONTRACTOR SHALL PERMANENTLY LAND CABLES AT EQUIPMENT ONCE INSTALLED. PROVIDE PVC JACKETED MG STYLE CABLE, OR OTHER APPROVED FOR INSTALLATION BY AHJ.
- 10 PROVIDE JUNCTION BOX RECEPTACLE FOR REFRIGERATED DISPLAY CASE. 120V, 1 ϕ , IN A HARDWIRES CONFIGURATION. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION REQUIREMENTS WITH GC PRIOR TO PURCHASE OF EQUIPMENT.
- 11 PROVIDE DEDICATED DUPLEX RECEPTACLE FOR UNDERCOUNTER ICE MACHINE. 120V, 1 ϕ , 10A.
- 12 PROVIDE DEDICATED NEMA 6-20R RECEPTACLE FOR ESPRESSO MACHINE. 208V, 1 ϕ , 3.4KW, 17A.
- 13 PROVIDE POWER TO EXHAUST HOOD CONTROL PANEL. COORDINATE EXACT EQUIPMENT LOCATION WITH HOOD INSTALLER. ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL CONDUIT AND CABLING TO EXTEND CIRCUIT FROM CONTROL PANEL TO GAS VALVE POWER CONTACTORS.
- 14 POWER TO INTEGRAL HOOD LIGHT FIXTURES. CONTRACTOR SHALL PROVIDE NECESSARY FIELD WIRING FROM HOOD LIGHT SWITCH (PROVIDED BY VENDOR) TO EACH FIXTURE JUNCTION BOX. WIRE PER HOOD ELECTRICAL CONTROL PANEL SCHEMATIC IN HOOD SUBMITTAL.
- 15 PANEL "KP-1". 120/208V, 150A MCB, 10KAIC, 42-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NQ42L2C, OR APPROVED EQUAL.
- 16 CEILING-SUSPENDED TRANSFORMER "T-KP1". 45KVA, 480:120/208V, 3 ϕ , 4W, COPPER CORE. SQUARE D TYPE EXN45T3HC, OR APPROVED EQUAL. SUSPENDED TRANSFORMER FROM CEILING USING 3/8" THREADED ROD AND UNISTRUT SUPPORTS, OR PER MANUFACTURER'S RECOMMENDATIONS.



(B) PARTIAL FLOOR PLAN - ELECTRICAL/SPRINKLER POWER
 SCALE: 1/4" = 1'-0"

POWER PLAN NOTES

- 1 UTILITY METER. PROVIDE 1-1/2" EMT CONDUIT FROM METER CABINET TO SWITCHBOARD C/T CABINET.
- 2 C/T CABINET AND MAIN SWITCHBOARD "MSB". 1600A, 277/480V, 3 ϕ , 4W, 65,000 AIC. SQUARE D TYPE QED-2 STYLE SWITCHBOARD. SEE SWITCHBOARD ELEVATION FOR FURTHER DETAILS. SWITCHBOARD SHALL BE MOUNTED ON A 4" CONCRETE HOUSEKEEPING PAD, EXTENDING 4" PAST EQUIPMENT WITH A 1/2" CHAMFERED EDGE.
- 3 PROVIDE (1) 4'x8' 1-HR FIRE RATED OSB COMMUNICATIONS BACKBOARD. COORDINATE EXACT LOCATION IN FIELD WITH LOW-VOLTAGE CONTRACTOR.
- 4 PROVIDE A COMMUNICATIONS DUCTBANK OF (4) 3" SCHEDULE 40 PVC CONDUIT FROM COMMUNICATIONS HANDHOLE, STUBBED UP INSIDE THE BUILDING AT THE LOCATION OF THE COMMUNICATIONS BACKBOARD. PROVIDE PULL STRINGS IN EACH CONDUIT.
- 5 PROVIDE A COMMUNICATIONS HANDHOLE FOR THE PURPOSE OF ROUTING TELE/DATA CABLING INTO BUILDING. HANDHOLE SHALL BE 18" X 18" X 12" MIN. CONCRETE HANDHOLE, VISIBLY MARKED AS TELE/DATA ON THE COVER.
- 6 PROVIDE MAIN GROUND BAR, SIZED AS SHOWN ON GROUND BAR DETAIL ON SHEET E003. SEE ELECTRICAL SERVICE GROUNDING SYSTEM DETAIL ON SHEET E003 FOR GROUND CONDUCTOR SIZING AND DETAILS.
- 7 UTILITY PRIMARY DUCTBANK. SEE PRIMARY DUCTBANK DETAIL ON SHEET E003.
- 8 UTILITY SECONDARY DUCTBANK. SEE SECONDARY DUCTBANK DETAIL ON SHEET E003.
- 9 UTILITY PAD-MOUNTED TRANSFORMER.
- 10 PANEL "LP-4". 277/480V, 250A MLO, 65KAIC, 18-CCT, IN NEMA 1 ENCLOSURE. SQUARE D TYPE NF418L1C, OR APPROVED EQUAL. FOR OUTDOOR LIGHTING PURPOSES.



KEY PLAN

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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 ENLARGED PLANS
 POWER

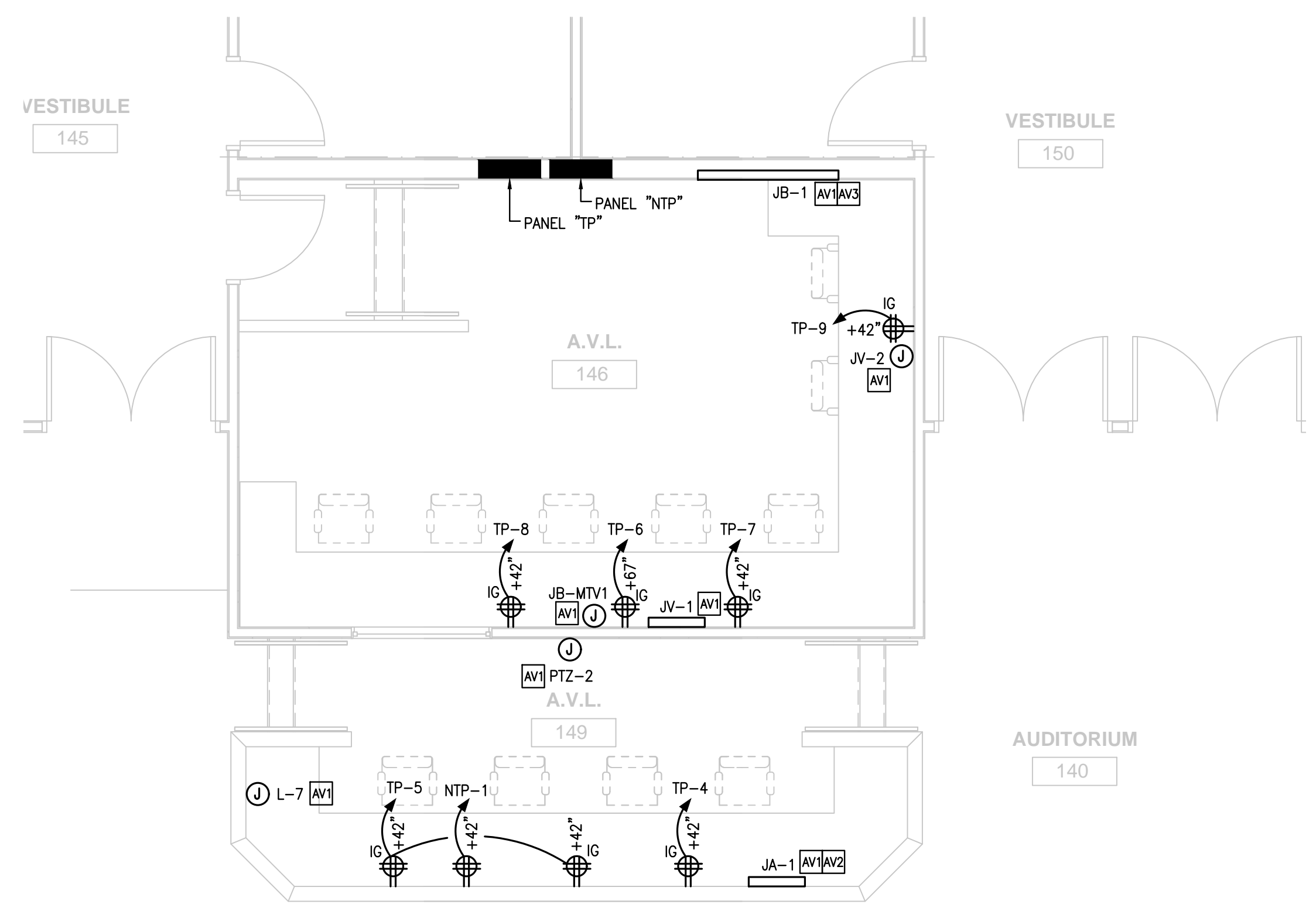
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 OF SHEETS
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AVL PLAN NOTES

AV1 JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD.

AV2 PROVIDE (1) 2" CHASE NIPPLE IN BACK BOX.

AV3 PROVIDE (3) 2" CHASE NIPPLES IN BACK BOX.



C PARTIAL FLOOR PLAN - AVL
 SCALE: 1/4" = 1'-0"

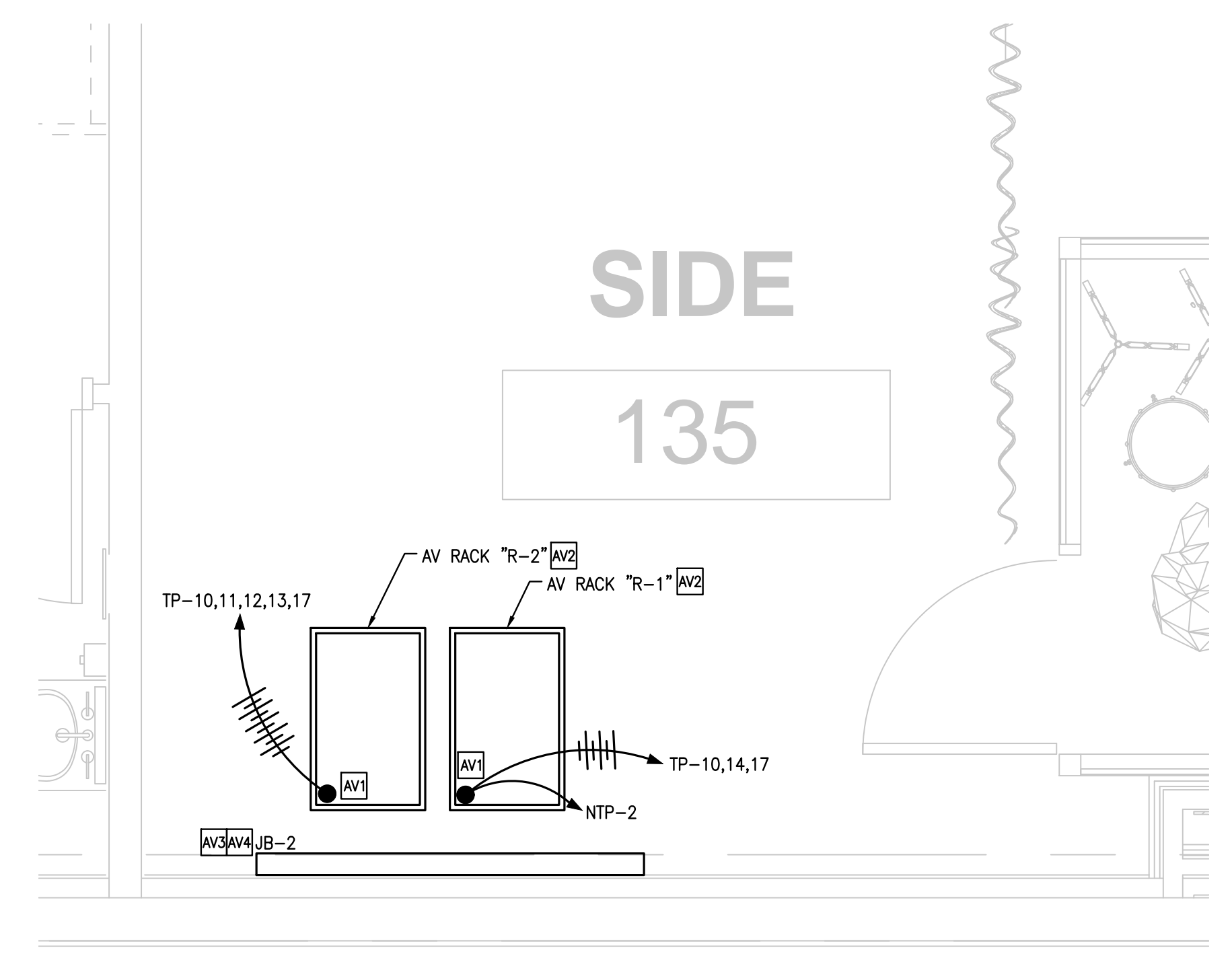
AVL PLAN NOTES

AV1 RACK POWER RECEPTACLES ARE INTERNAL TO THE RACK, AND PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR SHALL LAND CONDUCTORS AT PROPER TERMINATION POINT.

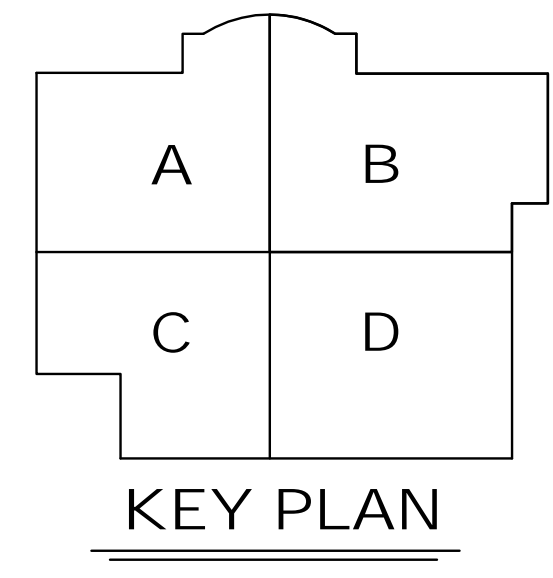
AV2 EQUIPMENT RACKS PROVIDED AND INSTALLED BY OTHERS.

AV3 WIRE TROUGH SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE LOW VOLTAGE BACK BOX SCHEDULE ON SHEET AV-6.4 FOR EXACT BOX DIMENSIONS, MOUNTING HEIGHT, AND MOUNTING METHOD.

AV4 PROVIDE (3) 2" CHASE NIPPLES IN BACK BOX.



D PARTIAL FLOOR PLAN - AV RACKS
 SCALE: 1/2" = 1'-0"



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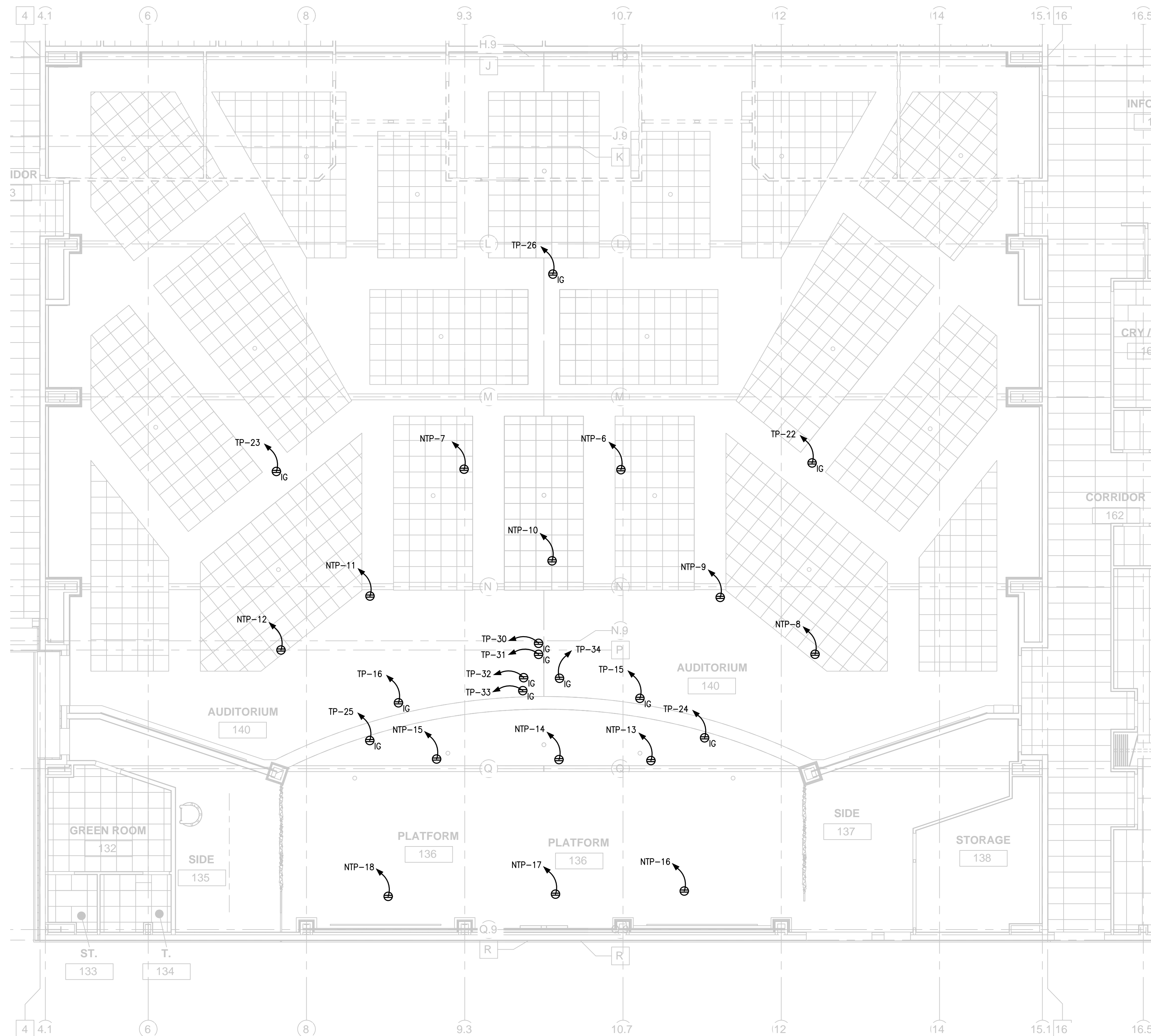
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 ENLARGED PLANS
 POWER

E203

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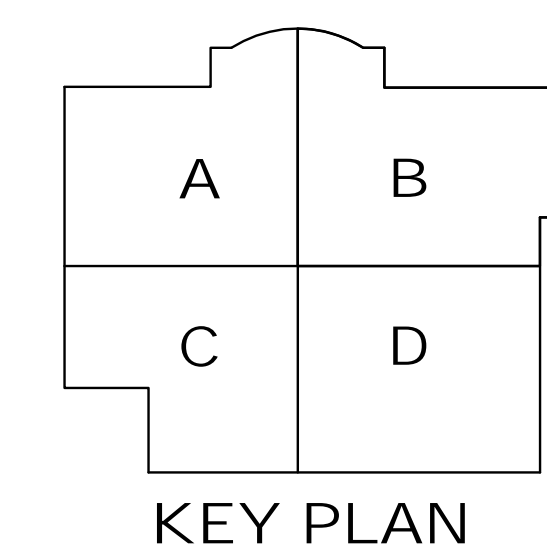
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POWER PLAN NOTES

1 EQUIPMENT SHOWN ON THIS PLAN ARE TO PROVIDE POWER TO CEILING-MOUNTED OR CEILING-SUSPENDED EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION LOCATION AND REQUIREMENTS WITH AVL CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO START OF INSTALLATION.

E PARTIAL FLOOR PLAN - AVL CEILING EQUIPMENT 1
 SCALE: 1/8" = 1'-0"



KEY PLAN

LIGHTING CONTROLS OPERATIONS

ROOM NUMBER	SPACE DESIGNATION	SPACE TYPE	LPD ALLOWANCE (WATTS/SQ. FT.)	SEQUENCE OF OPERATIONS	DESIGN ILLUMINANCE LEVEL (AVG. FC)	N1 - LINE-VOLTAGE SWITCH	N2 - ON/OFF/RAISE/LOWER KEYPAD	N3 - SCENE SELECT KEYPAD	N4 - OCCUPANCY SENSOR (AUTO PART ON)	N5 - VACANCY SENSOR (AUTO OFF)	N6 - TIME CLOCK	N7 - DAYLIGHTING HARVESTING	NOTES
100	VESTIBULE	LOBBY	0.84					X	X	X	X	X	
101	FOYER	LOBBY	0.84					X	X	X	X	X	THESE AREAS SHALL BE CONTROLLED SIMULTANEOUSLY BY SAME DEVICES
102	SEATING	LOBBY	0.84					X	X	X	X	X	
103	SEATING	LOBBY	0.84					X	X	X	X	X	
104	BOOKSTORE	LIBRARY	0.96					X	X	X	X	X	
105	SECURITY	ENCLOSED OFFICE	0.74					X	X	X			
106	JANITOR	ELEC/MECH RM	0.43			X							
107	MEDICAL	EXAM/TREATMENT	1.4				X		X	X			EACH FIXTURE TYPE SHALL HAVE INDEPENDENT MANUAL CONTROLS, BUT SHARED OCCUPANCY VACANCY CONTROLS
108	TOILET	RESTROOM	0.63					X	X				
109	STORAGE CLOSET	STORAGE ROOM	0.38			X							
110	CLASSROOM	CLASSROOM	0.71				X		X	X	X	X	
111	CLASSROOM	CLASSROOM	0.71				X		X	X	X	X	
112	STORAGE CLOSET	STORAGE ROOM	0.38			X							
113	VESTIBULE	LOBBY	0.84				X		X	X	X	X	
114	CORRIDOR	CORRIDOR	0.41				X		X	X	X	X	
115	RECEPTION	ENCLOSED OFFICE	0.74				X		X	X	X	X	
116	OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X	X	
117	F.L. OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X	X	
118	RESTROOM	RESTROOM	0.63				X		X	X	X	X	
119	WORKROOM	COPY/PRINT	0.31				X		X	X	X	X	
120	CORRIDOR	CORRIDOR	0.41				X		X	X	X	X	
121	TOILET	RESTROOM	0.63				X		X	X			
122	STORAGE CLOSET	STORAGE ROOM	0.38			X							
123	CORRIDOR	CORRIDOR	0.41				X		X	X	X		
125	LOUNGE	LOUNGE	0.59				X		X	X	X	X	
126	FINANCIAL OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X	X	
127	PASTORS OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X	X	
128	TOILET	RESTROOM	0.63				X		X	X			
129	STORAGE CLOSET	STORAGE ROOM	0.38			X							
130	OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X		
131	CLASS/CONFERENCE	CLASSROOM	0.71				X		X	X	X	X	
132	GREEN ROOM	LOUNGE	0.59				X		X	X	X	X	
133	STORAGE CLOSET	STORAGE ROOM	0.38			X							
134	TOILET	RESTROOM	0.63				X		X	X			
135	SIDE	STORAGE ROOM	0.38				X		X	X			
136	PLATFORM	-											CONTROLS PART OF AV SCOPE OF WORK
137	SIDE	STORAGE ROOM	0.38				X		X	X			
138	STORAGE CLOSET	STORAGE ROOM	0.38			X							
140	AUDITORIUM	-											CONTROLS PART OF AV SCOPE OF WORK
141	OPEN OFFICE	ENCLOSED OFFICE	0.74				X		X	X	X		
142	TEMPORARY CLASS	CLASSROOM	0.71				X		X	X	X		
144	MEN'S TOILET	RESTROOM	0.63				X		X	X	X		
145	VESTIBULE	CORRIDOR	0.41				X		X	X	X		
146	A.V.L.	COMPUTER ROOM	0.94				X		X	X	X		
147	USHER	LOUNGE	0.59				X		X	X	X		
148	SECURITY	ENCLOSED OFFICE	0.74				X		X	X	X		
149	A.V.L.	COMPUTER ROOM	0.94				X		X	X	X		
150	VESTIBULE	CORRIDOR	0.41				X		X	X	X		
151	TEMPORARY CLASS	CLASSROOM	0.71				X		X	X	X		
152	TEMPORARY CLASS	CLASSROOM	0.71				X		X	X	X		
153	WOMEN'S TOILET	RESTROOM	0.63				X		X	X	X		
154	JANITOR	ELEC/MECH RM	0.43			X							
155	FAMILY RESTROOM	RESTROOM	0.63				X		X	X			
156	ELEM. CLASS	CLASSROOM	0.71										
157	STORAGE CLOSET	STORAGE ROOM	0.38			X							
158	YOUTH LOUNGE	CLASSROOM	0.71				X		X	X	X	X	
159	MEN'S TOILET	RESTROOM	0.63				X		X	X	X		
160	WOMEN'S TOILET	RESTROOM	0.63				X		X	X	X		
161	CRIBS	GUESTROOM	0.41				X		X	X			
162	CORRIDOR	CORRIDOR	0.41				X		X	X	X		
163	CRY/NURSERY	GUESTROOM	0.41				X		X	X			
164	INFANTS	CLASSROOM	0.71				X		X	X	X		
165	TOILET	RESTROOM	0.63				X		X	X			
166	STORAGE CLOSET	STORAGE ROOM	0.38			X							
167	STORAGE CLOSET	STORAGE ROOM	0.38			X							
168	TODDLERS	CLASSROOM	0.71				X		X	X	X		
169	INFO AREA	CORRIDOR	0.41				X		X	X	X		
170	CHECK-IN AREA	CORRIDOR	0.41				X		X	X	X		
171	PRESCHOOL THEATER	CLASSROOM	0.71					X	X	X	X		
171A	PLATFORM	CLASSROOM	0.71										
172	STORAGE CLOSET	STORAGE ROOM	0.38			X							
173	STORAGE CLOSET	STORAGE ROOM	0.38			X							
174	ELECTRICAL ROOM	ELEC/MECH RM	0.43			X							
175	SPRINKLER ROOM	ELEC/MECH RM	0.43			X							
176	STORAGE CLOSET	STORAGE ROOM	0.38			X							
177	TOILET	RESTROOM	0.63				X		X	X			
178	STORAGE CLOSET	STORAGE ROOM	0.38			X							
179	PRESCHOOL	CLASSROOM	0.71				X		X	X	X	X	
180	COMMERCIAL KITCHEN	FOOD PREP	1.09			X							
181	CAFÉ	FOOD PREP	1.09				X						
182	STORAGE CLOSET	STORAGE ROOM	0.38			X							
183	PANTRY	STORAGE ROOM	0.38				X		X	X			
184	ROOF ACCESS	ELEC/MECH RM	0.43			X							

TABLE NOTES:

N1 MANUAL ON/OFF DEVICE LOCATED WITHIN THE AREA IT CONTROLS.

N2 CONTROLS THAT ALLOW THE LIGHTING LEVEL TO BE ADJUSTED UP AND DOWN.

N3 8-BUTTON CONTROLLER: ON, OFF, RAISE, LOWER, AND FOUR (4) ADDITIONAL SCENE BUTTONS.

N4 AUTO-ON TO 50% OF MAXIMUM LIGHT OUTPUT. MANUAL RAISE/LOWER. MANUAL-OFF AND AUTO-ON.
*Special Exception: Fixtures shall Auto-On to 100% of maximum light output in areas concerning personnel security, such as Entry Ways, Vestibules, Stairwells, and Corridors.

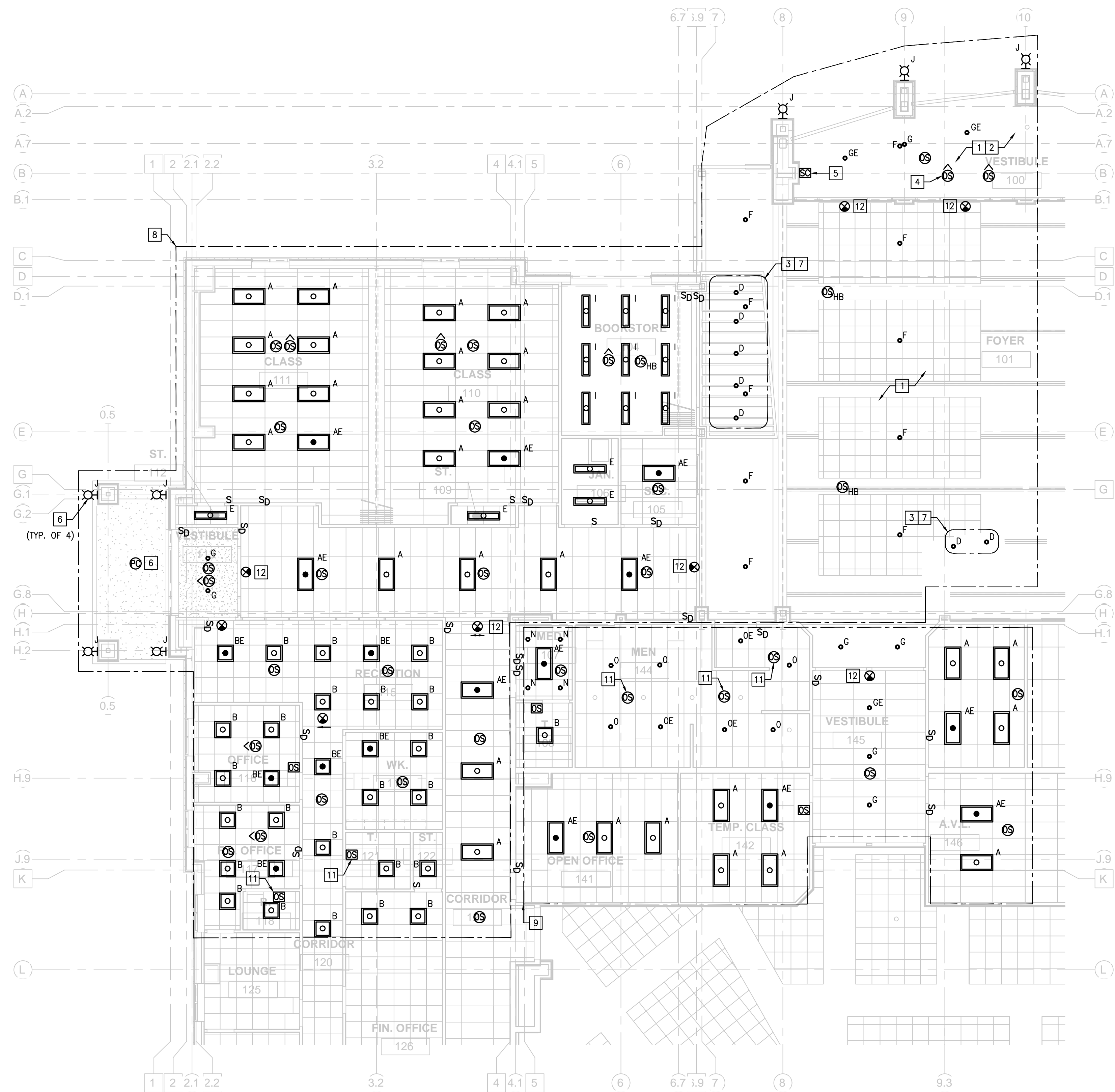
N5 AUTO-OFF AFTER FIFTEEN (15) MINUTES OF VACANCY WITH 5-SECOND FADE. DURING NON-NORMAL HOURS, AUTO-OFF AFTER FIVE (5) MINUTES OF VACANCY USING A 5-SECOND FADE.

N6 AUTO-ON DURING NORMAL HOURS OF OPERATION (7:00AM TO 5:00PM, WEEKDAYS). DURING NON-NORMAL HOURS, LIGHTING IS TURNED OFF AUTOMATICALLY. MAY BE MANUALLY OVERRIDDEN TO ON.

N7 AT THIRTY (30) MINUTES AFTER CIVIL DUSK, INTERIOR LIGHTING SHALL BE REDUCED BY 25% OVER TEN (10) MINUTES. AT THIRTY (30) MINUTES AFTER CIVIL DAWN, INTERIOR LIGHTING SHALL RETURN TO ITS NORMAL LEVELS OVER TEN (10) MINUTES.

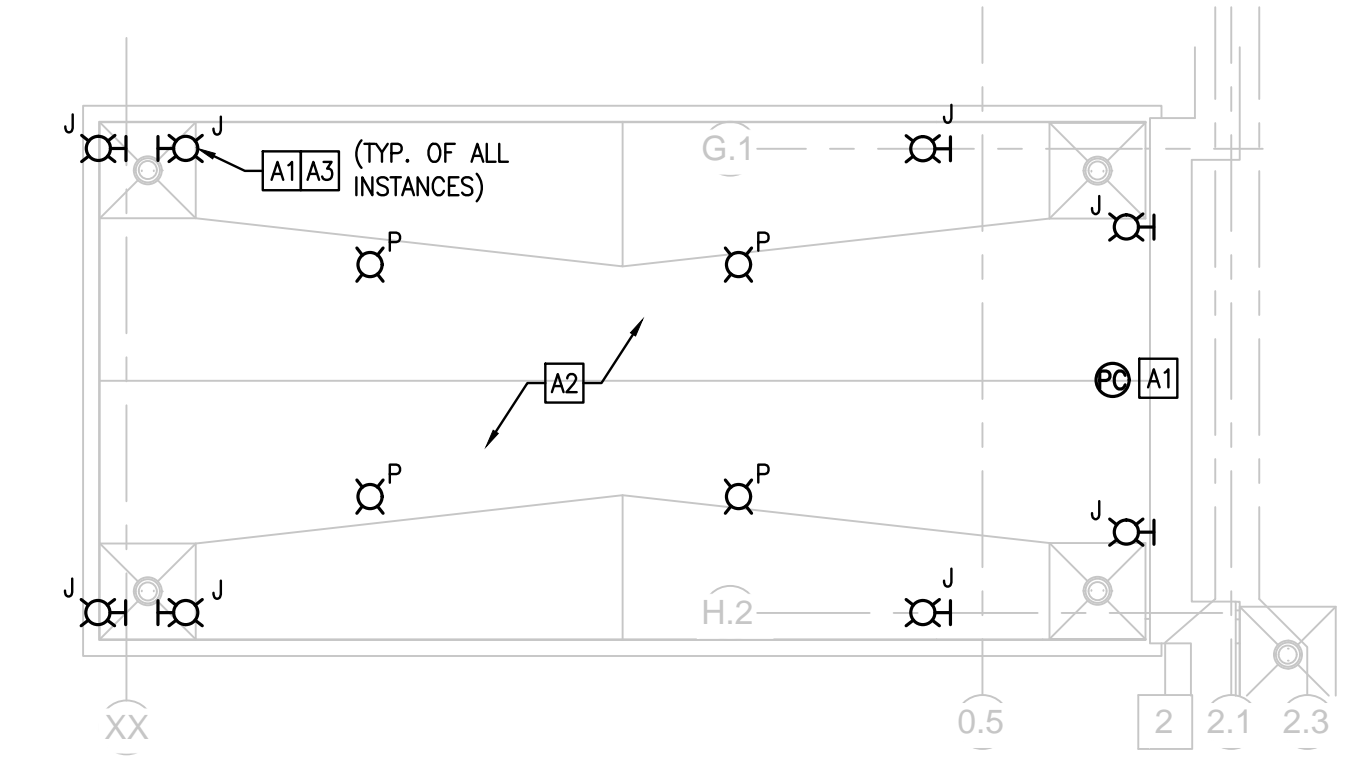
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOGUE #	LAMP	VOLT	INPUT WATTS	MOUNTING	REMARKS
A	RECESSED LED 2X4 VOLUMETRIC TROFFER	LITHONIA LIGHTING	2VTL4-60L-ADP-EZ1-LP835	6301 LUMENS LED 3500K	120/277	47.7	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
AE	RECESSED LED 2X4 VOLUMETRIC TROFFER W/ BATTERY PACK	LITHONIA LIGHTING	2VTL4-60L-ADP-EZ1-LP835-EL7L	6301 LUMENS LED 3500K	120/277	47.7	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
B	RECESSED LED 2X2 VOLUMETRIC TROFFER	LITHONIA LIGHTING	2VTL2-40L-ADP-EZ1-LP835	4000 LUMENS LED 3500K	120/277	33.1	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
BE	RECESSED LED 2X2 VOLUMETRIC TROFFER W/ BATTERY PACK	LITHONIA LIGHTING	2VTL2-40L-ADP-EZ1-LP835-EL7L	4000 LUMENS LED 3500K	120/277	33.1	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
C	RECESSED LED 2X4 INDIRECT TROFFER	LITHONIA LIGHTING	2BZL4-60L-EZ1-LP835	5904 LUMENS LED 3500K	120/277	58	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
CE	RECESSED LED 2X4 INDIRECT TROFFER W/ BATTERY PACK	LITHONIA LIGHTING	2BZL4-60L-EZ1-LP835-EL14L	5904 LUMENS LED 3500K	120/277	58	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
D	LED PENDANT STEM CYLINDER	GOTHAM EVO	EVO4PC-35/20-AR-LSS-MWD-MVOLT-GZ10-JBX-PCAN-S4	1,994 LUMENS LED 3500K	120/277	19.5	STEM	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
E	LED STRIP LIGHT	LITHONIA LIGHTING	CSS-L48-4000LM-MVOLT-35K-80CRI	4000 LUMENS LED 5000K	120/277	35.3	SURFACE	VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
EE	LED STRIP LIGHT W/ BATTERY PACK	LITHONIA LIGHTING	CSS-L48-4000LM-MVOLT-35K-80CRI-IE7WCP	4000 LUMENS LED 5000K	120/277	35.3	SURFACE	VERIFY ALL FINISHES WITH ARCHITECT; BATTERY PACK
F	8" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN8CYL-35/100-L08-AR-LSS-MVOLT-GZ1-PM-DBL	10000 LUMENS LED 3500K	120/277	118.83	3/8" PENDANT	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
G	6" LED CYLINDER CAN LIGHT	LITHONIA LIGHTING	LDN6-35/50-L06-AR-LSS-TRW-MVOLT-GZ10	6000 LUMENS LED 3500K	120/277	73	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
GE	6" LED CYLINDER CAN LIGHT	LITHONIA LIGHTING	LDN6-35/50-L06-AR-LSS-TRW-MVOLT-GZ10-EL	6000 LUMENS LED 3500K	120/277	73	RECESSED	0-10V DIMMING; VERIFY ALL FINISHES WITH ARCHITECT
H	LED STEP LIGHT	WAC LIGHTING	WL-LED201-27-WT	LED 2700K	120	3.5	WALL	VERIFY ALL FINISHES WITH ARCHITECT
I	LED SURFACE VOLUMETRIC	LITHONIA LIGHTING	STL4-48L-EZ1-LP835	4850 LUMENS LED 3500K	120/277	45.2	SUSPENDED	VERIFY ALL FINISHES WITH ARCHITECT
IE	LED SURFACE VOLUMETRIC	LITHONIA LIGHTING	STL4-48L-EZ1-LP835-EL7L	4850 LUMENS LED 3500K	120/277	45.2	SUSPENDED	VERIFY ALL FINISHES WITH ARCHITECT
J	LED WALL CYLINDER LIGHT	LITHONIA LIGHTING	OLLWU LED-P1-30K-MVOLT-DOB	947 LUMENS LED 3000K	120/277	14	WALL	VERIFY ALL FINISHES WITH ARCHITECT
K	OUTDOOR LED AREA LUMINAIRE	LITHONIA LIGHTING	DSX1 LED-P1-30K-70CRI-T2M-MVOLT-SPA-PIR-DOB	7,203 LUMENS LED 3000K	277	50	POLE	VERIFY ALL FINISHES WITH ARCHITECT
L	OUTDOOR LED FLOOD LIGHT	LITHONIA LIGHTING	DSXF2 LED-P1-30K-70CRI-NSP-MVOLT-THK-PE-DOB	8,248 LUMENS LED 3000K	120/277	129	1/2" NPT THREAD	VERIFY ALL FINISHES WITH ARCHITECT
M	OUTDOOR LED FLOOD LIGHT	LITHONIA LIGHTING	DSXF2 LED-P2-30K-70CRI-HMF-MVOLT-THK-PE-DOB	8,963 LUMENS LED 3000K	120/277	113	1/2" NPT THREAD	VERIFY ALL FINISHES WITH ARCHITECT
N	4" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN4-35/07-L04-AR-LSS-TRW-MVOLT-GZ10	751 LUMENS LED 3500K	120/277	8.6	DOWNLIGHT	VERIFY ALL FINISHES WITH ARCHITECT
O	6" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN6-35/30-L06-AR-LSS-TRW-MVOLT-GZ10	3021 LUMENS LED 3500K	120/277	34.8	DOWNLIGHT	VERIFY ALL FINISHES WITH ARCHITECT
OE	6" LED CYLINDER DOWNLIGHT	LITHONIA LIGHTING	LDN6-35/30-L06-AR-LSS-TRW-MVOLT-GZ10-EL	3021 LUMENS LED 3500K	120/277	34.8	DOWNLIGHT	VERIFY ALL FINISHES WITH ARCHITECT
P	LED CANOPY FIXTURE	LITHONIA LIGHTING	VCPGX LED-V4-P2-30K-70CRI-T5M-MVOLT-SRM-UPL1-PIR-DOB	4567 LUMENS LED 3000K	120/277	40.5	SURFACE	VERIFY ALL FINISHES WITH ARCHITECT
↑	ARCHITECTURAL EMERGENCY LIGHTING	LITHONIA LIGHTING	AFF-OEL-DBLBDX-UVOLT-LTP-SDRT-FCT	3021 LUMENS LED 3500K				



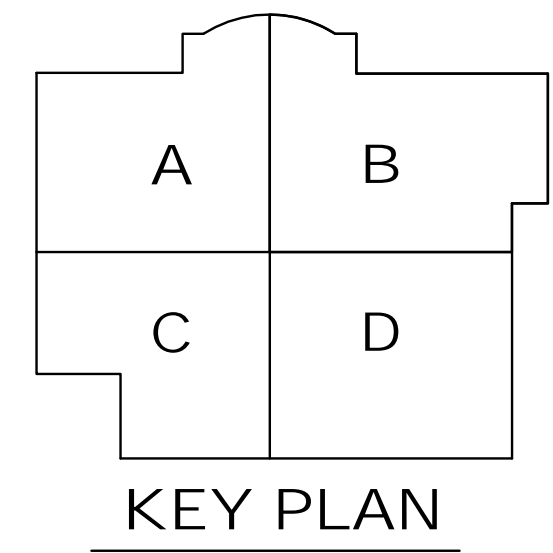
PARTIAL FLOOR PLAN – SECTION 'A' LIGHTING 10
SCALE: 1/8" = 1'-0"

- ### LIGHTING PLAN NOTES
- 1 'F' TYPE FIXTURES IN THIS AREA SHALL BE SUSPENDED AT 24" A.F.F.
 - 2 'G' TYPE FIXTURES IN THIS AREA ARE MOUNTED ON CEILING, ROUGHLY 10' A.F.F
 - 3 'D' TYPE FIXTURES IN THIS AREA ARE SURFACE MOUNTED ON PORTICO AT ROUGHLY 10' A.F.F.
 - 4 DAYLIGHTING SENSOR SHALL CONTROL 'F' TYPE FIXTURES ABOVE THE VESTIBULE AREA.
 - 5 PROVIDE 8-BUTTON SCENE SELECTOR FOR MANUAL CONTROL OF VESTIBULE, FOYER, AND ADJACENT SEATING AREAS.
 - 6 OUTDOOR SCENCE FIXTURE SHALL BE CONTROLLED BY TIME CLOCK AND EXTERNAL PHOTOCELL. PHOTOCELL SHALL BE MOUNTED ON TOP OF ROOF USING MANUFACTURER'S APPROVED METHODS. CONTRACTOR SHALL DETERMINE MOST APPROPRIATE INSTALLATION LOCATION IN FIELD.
 - 7 'D' TYPE PORTICO FIXTURES SHALL HAVE INDEPENDENT ON/OFF/DIMMABLE SWITCH, BUT SHALL SHARE OCCUPANCY/VACANCY SENSORS, AND TIME CONTROLS OF ADJACENT FOYER AREA.
 - 8 LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP1-36.
 - 9 LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP2-36.
 - 10 LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
 - 11 PROVIDE ADDITIONAL 20A MECHANICALLY RATED POWER PACK FOR THE PURPOSE OF OPERATING ASSOCIATED AREA EXHAUST FAN DURING OCCUPANCY (WHILE LIGHTING CONTROLS ARE "ON"). SEE SHEET E402 FOR EXHAUST FAN CIRCUIT DESIGNATIONS AND EQUIPMENT REQUIREMENTS.
 - 12 EMERGENCY FIXTURES SHALL BE FED FROM ADJACENT LIGHTING CIRCUIT. ENSURE ALL EMERGENCY FIXTURES ARE WIRED AHEAD OF ANY CONTROLS.



ADD ALTERNATE #1 – SECTION 'A' CANOPY LIGHTING
SCALE: 1/8" = 1'-0"

- ### ADD ALTERNATE #1 NOTES
- NOTE: ALL ADD ALTERNATE WORK SHALL BE PROVIDED AS A SEPARATE LINE ITEM FOR BIDDING PURPOSES.
- A1 OUTDOOR SCENCE FIXTURE SHALL BE CONTROLLED BY TIME CLOCK AND EXTERNAL PHOTOCELL. PHOTOCELL SHALL BE MOUNTED ON TOP OF ROOF USING MANUFACTURER'S APPROVED METHODS. CONTRACTOR SHALL DETERMINE MOST APPROPRIATE INSTALLATION LOCATION IN FIELD.
 - A2 LIGHTING SHALL BE CONNECTED TO ADJACENT INDOOR LIGHTING CIRCUIT LP1-36.
 - A3 SCENCE LIGHTING SHALL BE INSTALLED ON CANOPY PILLARS (NOT SHOWN ON THE REFLECTED CEILING PLAN).



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Project #: 19161

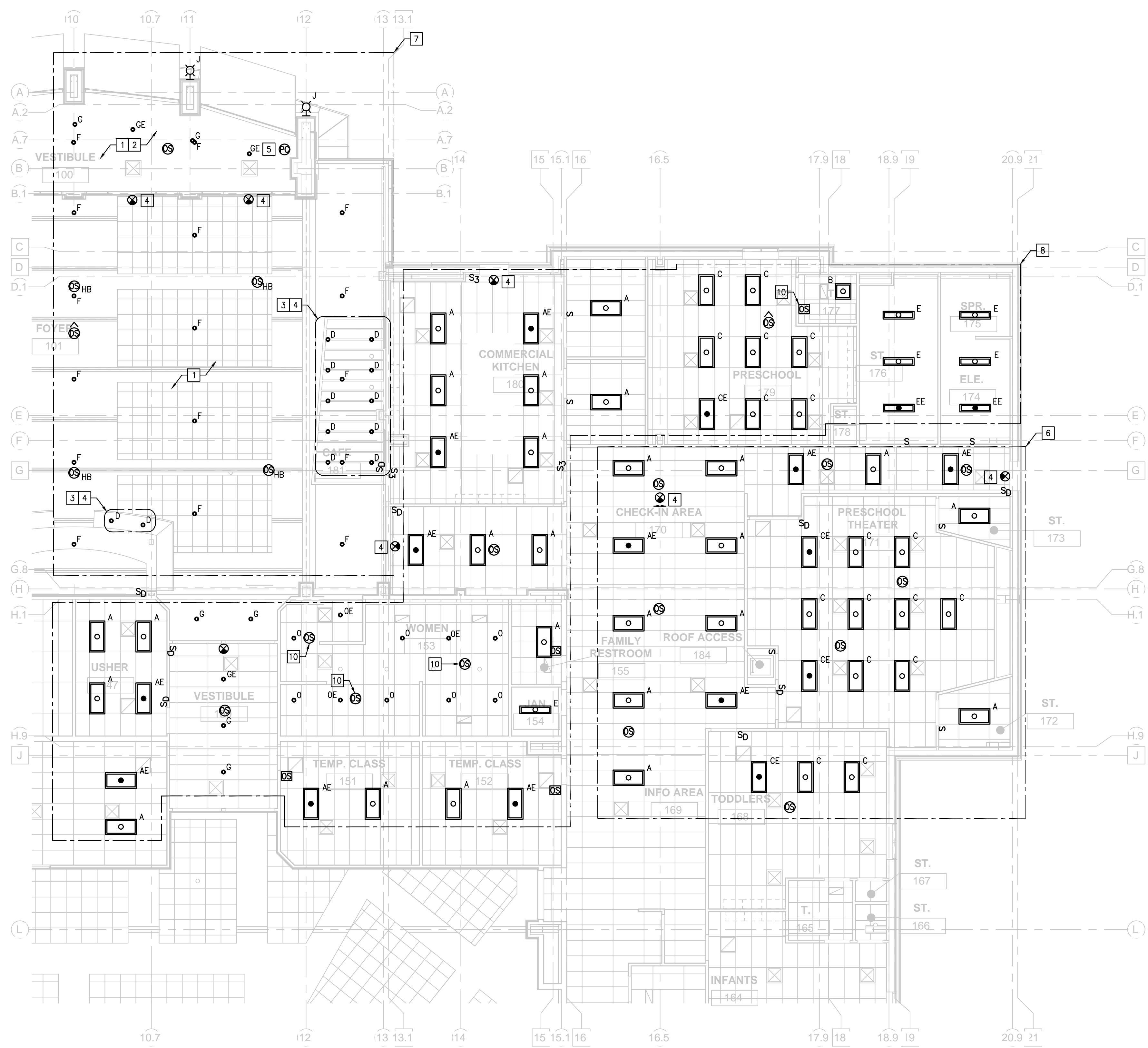
NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
6300 WOODYARD ROAD,
UPPER MARLBORO, MD 20772

DRAWING	DATE
<input type="checkbox"/> DD MEETING #1	07/16/2019
<input type="checkbox"/> DD MEETING #2	09/06/2019
<input type="checkbox"/> DD MEETING #3	10/06/2023
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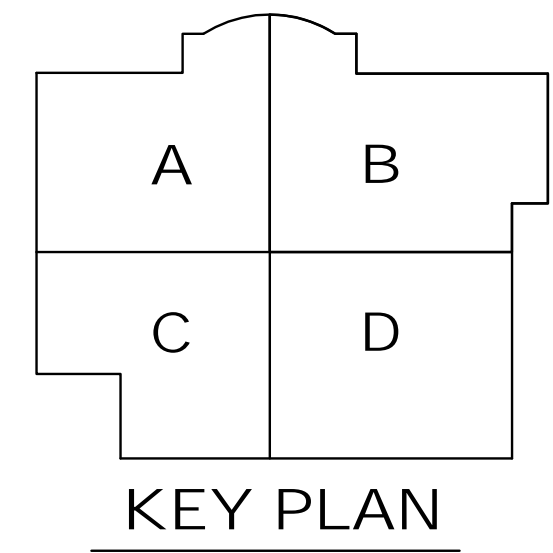
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
SECTION 'A'
LIGHTING

E302
OF SHEETS



PARTIAL FLOOR PLAN -- SECTION 'B' LIGHTING 9
 SCALE: 1/8" = 1'-0"



LIGHTING PLAN NOTES

- 1 'F' TYPE FIXTURES IN THIS AREA SHALL BE SUSPENDED AT 24' A.F.F.
- 2 'G' TYPE FIXTURES IN THIS AREA ARE MOUNTED IN CEILING, ROUGHLY 10' A.F.F.
- 3 'D' TYPE FIXTURES IN THIS AREA ARE SURFACE MOUNTED ON PORTICO AT ROUGHLY 10' A.F.F.
- 4 'D' TYPE PORTICO FIXTURES SHALL HAVE INDEPENDENT ON/OFF/DIMMABLE SWITCH, BUT SHALL SHARE OCCUPANCY/VACANCY SENSORS, AND TIME CONTROLS OF ADJACENT FOYER AREA.
- 5 OUTDOOR SCONCE FIXTURE SHALL BE CONTROLLED BY TIME CLOCK AND EXTERNAL PHOTOCELL. PHOTOCELL SHALL BE MOUNTED ON TOP OF ROOF USING MANUFACTURER'S APPROVED METHODS. CONTRACTOR SHALL DETERMINE MOST APPROPRIATE INSTALLATION LOCATION IN FIELD.
- 6 LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP2-35.
- 7 LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP1-35.
- 8 LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,1ϕ CIRCUIT LP1-34.
- 9 LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
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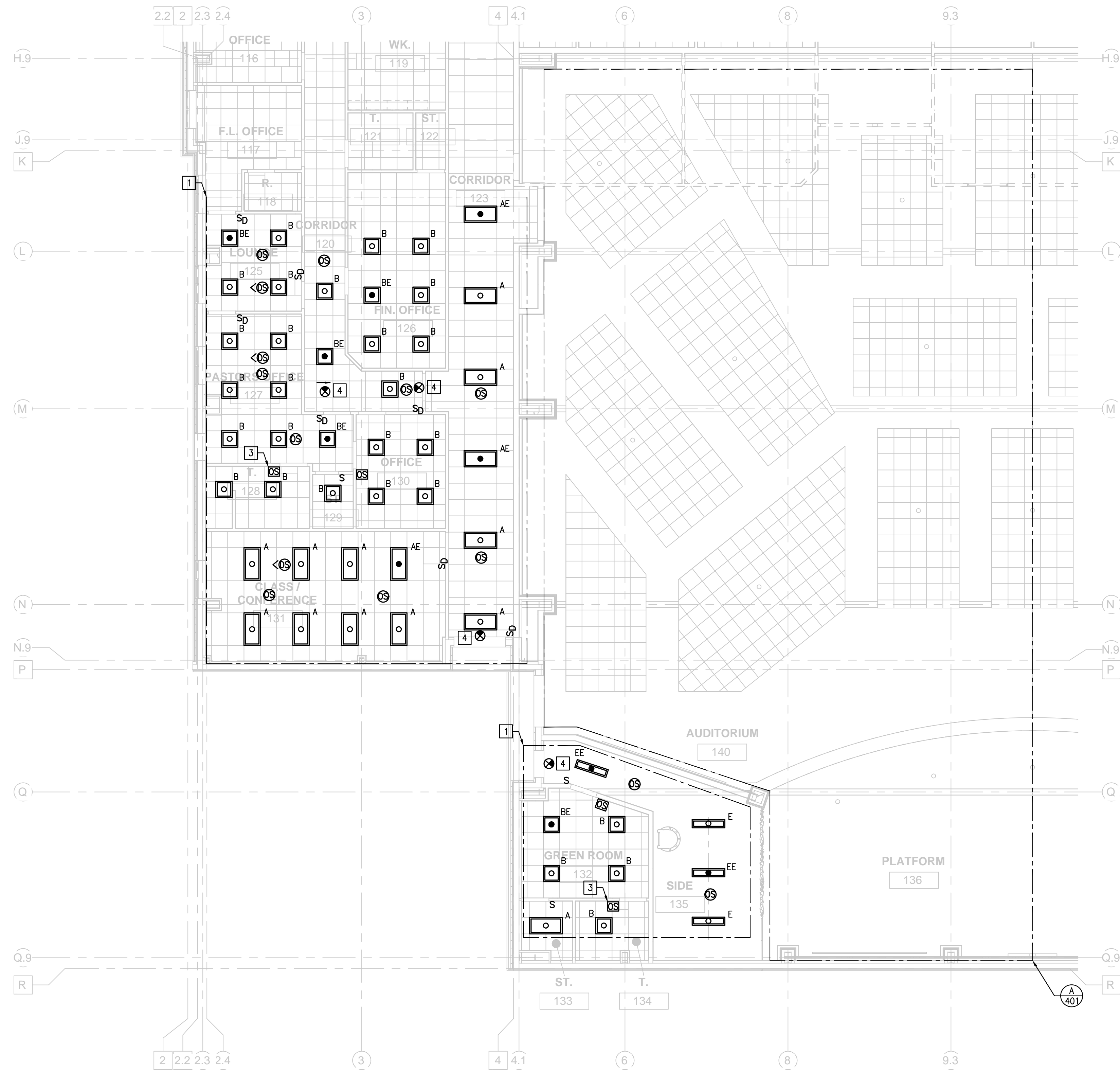
NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

DRAWING	DATE
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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 SECTION 'B'
 LIGHTING

E303
 OF SHEETS
 216118



PARTIAL FLOOR PLAN – SECTION 'C' LIGHTING [2]
 SCALE: 1/8" = 1'-0"

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

LIGHTING PLAN NOTES

- 1 LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V, 14 CIRCUIT LP2-36.
- 2 LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
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- 4 EMERGENCY FIXTURES SHALL BE FED FROM ADJACENT LIGHTING CIRCUIT. ENSURE ALL EMERGENCY FIXTURES ARE WIRED AHEAD OF ANY CONTROLS.

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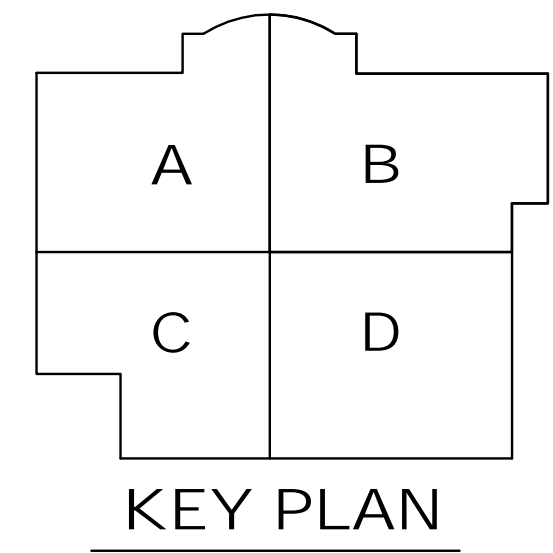
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 Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

DRAWING	DATE
<input type="checkbox"/> DD MEETING #1	07/16/2019
<input type="checkbox"/> DD MEETING #2	09/06/2019
<input type="checkbox"/> DD MEETING #3	10/06/2023
<input type="checkbox"/> BID SET	11/15/2023
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REVISIONS/ADDENDUMS

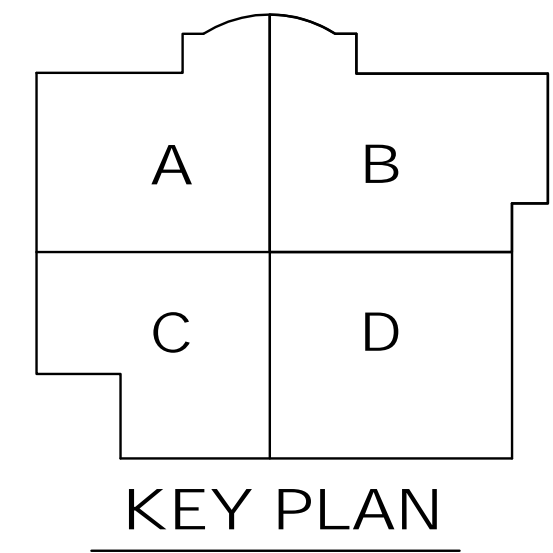


FIRST FLOOR PLAN
 SECTION 'C'
 LIGHTING

E304
 OF SHEETS
 216118



FLOOR PLAN - LIGHTING
 SCALE: 1/8" = 1'-0"



KEY PLAN

AVL SCOPE OF WORK NOTES

NOTE: FOR BIDDING PURPOSES, THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE "AUDIO, VIDEO, AND THEATRICAL LIGHTING SYSTEMS INTEGRATION" DRAWING SET BY CUSTOM SOUND DESIGNS IN ORDER TO DEFINE FURTHER SCOPE REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO FURNISH AND INSTALLED AUDIO, VIDEO, AND LIGHTING (AVL) EQUIPMENT PERTAINING TO THE AUDITORIUM. SEE SHEET AV-0.1 FOR A DIVISION OF LABOR MATRIX. THIS INFORMATION WILL BE INCLUDED ON THE FINAL ELECTRICAL DRAWINGS, BUT IS BEING PRESENTED SEPARATELY AT THIS TIME.

LIGHTING PLAN NOTES

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- 4 EMERGENCY FIXTURES SHALL BE FED FROM ADJACENT LIGHTING CIRCUIT. ENSURE ALL EMERGENCY FIXTURES ARE WIRED AHEAD OF ANY CONTROLS.



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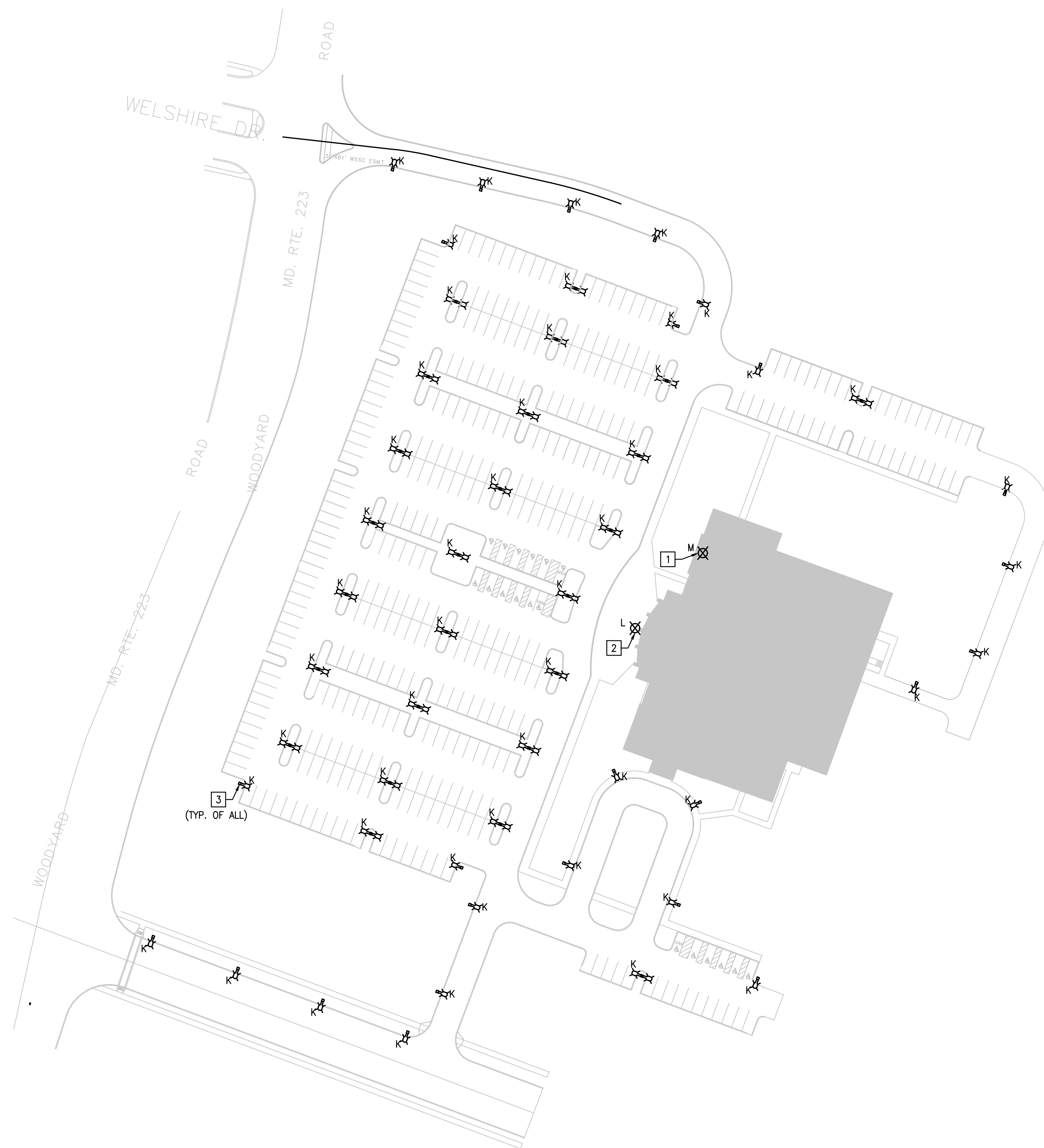
NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

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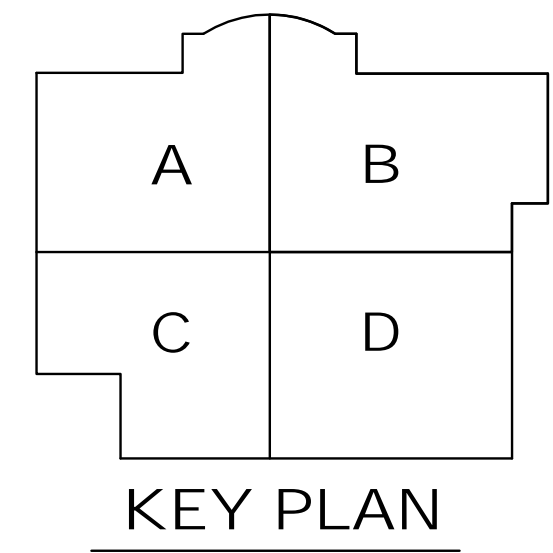
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 SECTION 'D'
 LIGHTING

E305
 OF SHEETS
 216118



SITE PLAN -- LIGHTING
SCALE: 1/64" = 1'-0"



KEY PLAN

LIGHTING PLAN NOTES

- 1 LIGHT FIXTURES IN THIS AREA SHALL BE FED FROM 277V,14 CIRCUIT LP2-35.
- 2 LIGHTING REFLECTED CEILING PLAN IS DIAGRAMMATIC IN NATURE, AND MAY NOT REPRESENT ALL DEVICES REQUIRED FOR A SPACE TO FUNCTION AS DESCRIBED ON THE LIGHTING CONTROLS MATRIX OR LIGHTING SEQUENCE OF OPERATIONS. CONTRACTOR SHALL COORDINATE LIGHTING REQUIREMENTS WITH LIGHTING VENDOR AND ARCHITECT PRIOR TO EQUIPMENT RELEASE TO ENSURE ALL FIXTURES, SWITCHES, POWER PACKS, MOUNTING HARDWARE, OR OTHER ACCESSORIES HAVE BEEN ACCOUNTED FOR. CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE AND OPERABLE SYSTEM.
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UPPER MARLBORO, MD 20772

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REVISIONS/ADDENDUMS

SITE PLAN LIGHTING

E306
OF SHEETS
216118

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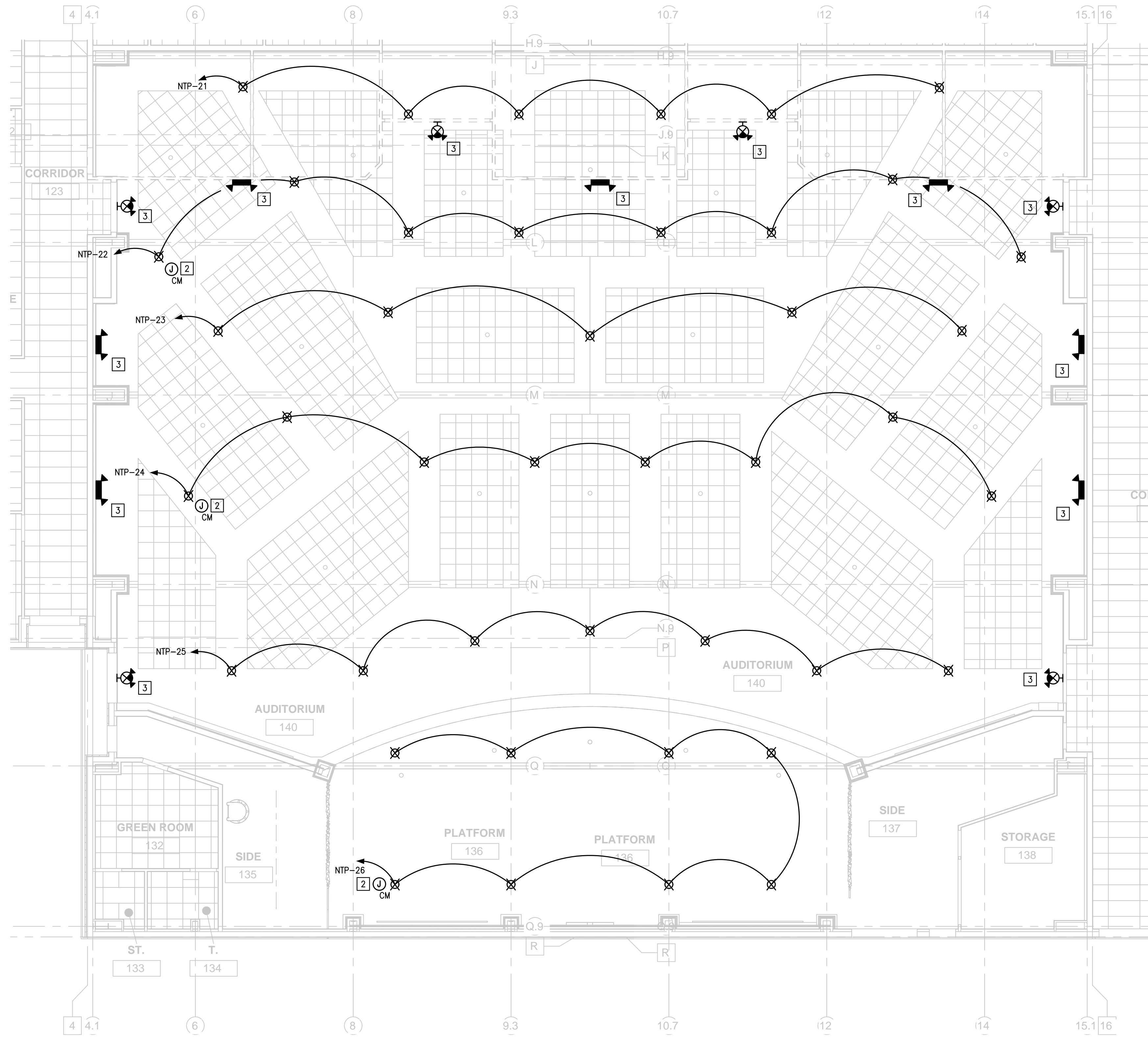
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 ENLARGED PLANS
 LIGHTING

E401

OF SHEETS

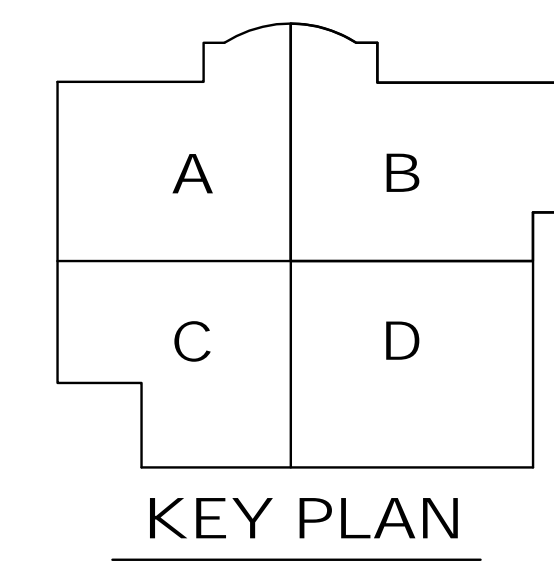
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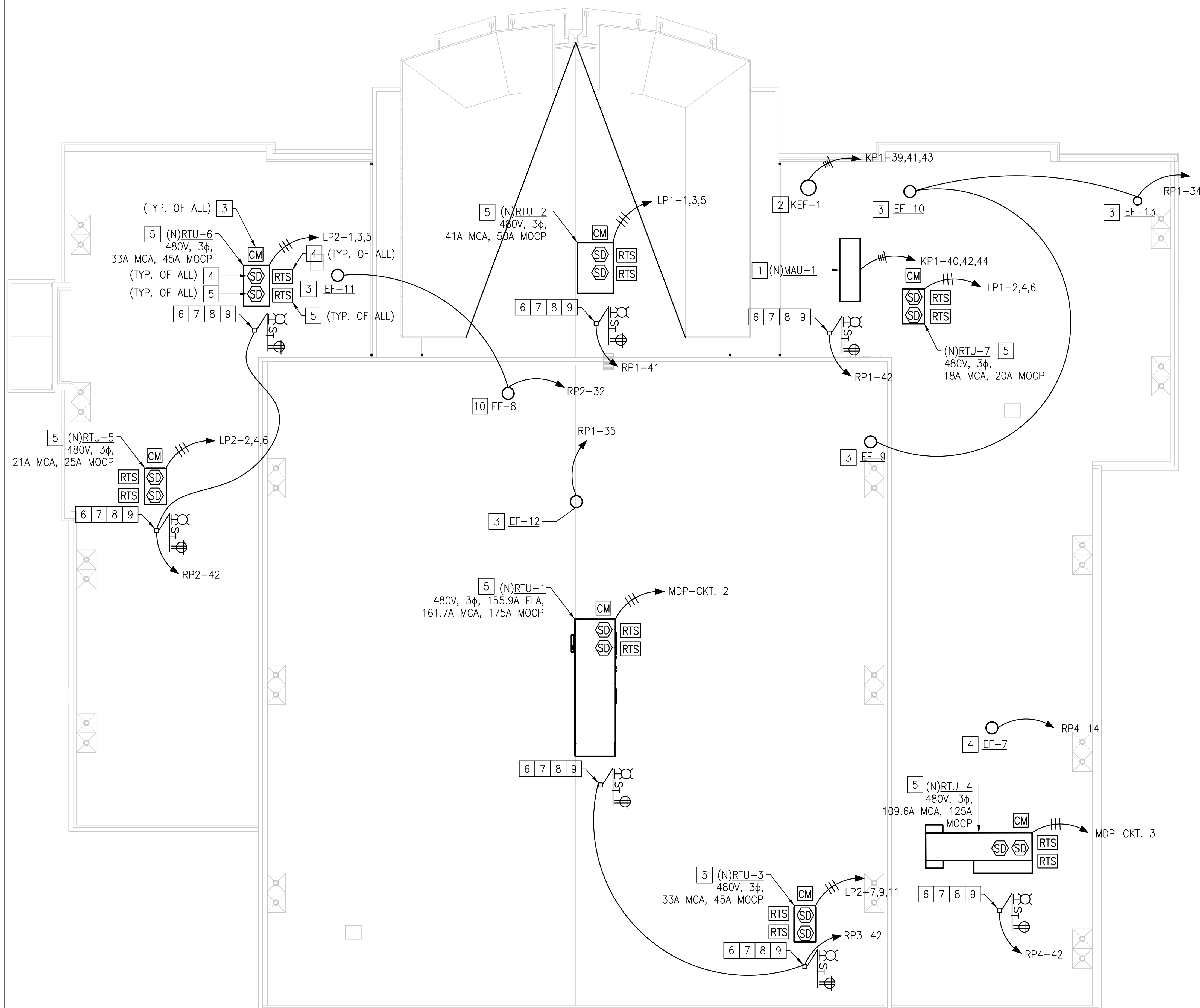


LIGHTING PLAN NOTES

- 1 SEE SHEET AV-1.5, AND AV-1.6 FOR POWER AND CONTROLS REQUIREMENTS FOR AUDITORIUM HOUSE LIGHTING.
- 2 PROVIDE JUNCTION BOX FOR ROUTING DMX CONTROLS CABLING FOR AUDITORIUM HOUSE LIGHTING ZONES.
- 3 EMERGENCY FIXTURES SHALL BE FED FROM PANEL NTP-42.

(A) PARTIAL FLOOR PLAN - AUDITORIUM LIGHTING
 SCALE: 1/8" = 1'-0"





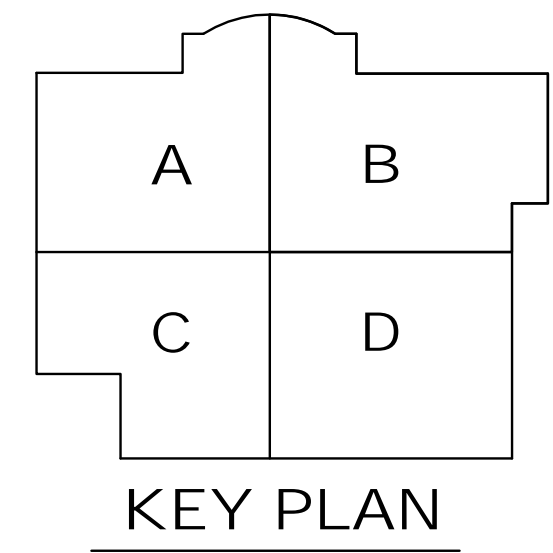
ROOF PLAN - SYSTEMS ◊
SCALE: 3/32" = 1'-0"

POWER PLAN NOTES

- 1 MAKE-UP AIR UNIT "MAU-1". 208V, 3φ, 8.3A FLA, 10.4A MCA, 20A MOCP. PROVIDED WITH PRE-WIRED VFD BY VENDOR. CONTRACTOR SHALL PROVIDE SEPARATE 120V, 1φ CIRCUIT, DESIGNATED AS SHOWN, TO MUA SWITCH. SEE EXHAUST HOOD SUBMITTAL FOR FURTHER DETAILS.
- 2 KITCHEN EXHAUST FAN "KEF-1". 208V, 3φ, 6.1A, 20A MOCP. INTEGRAL DISCONNECT SWITCH AND PRE-WIRED VFD BY VENDOR.
- 3 ROOF-TOP EXHAUST FAN. 120V, 1φ, 1.3A FLA, 1.6A MCA, 15A MOCP. EXHAUST FAN IS PROVIDED WITH NEMA-1 DISCONNECT SWITCH BY VENDOR. ELECTRICAL CONTRACTOR SHALL FIELD WIRE, AS NECESSARY.
- 4 ROOF-TOP EXHAUST FAN "EF-7". 120V, 1φ, 3.8A FLA, 4.8A MCA, 15A MOCP. EXHAUST FAN IS PROVIDED WITH NEMA-1 DISCONNECT SWITCH BY VENDOR. ELECTRICAL CONTRACTOR SHALL FIELD WIRE, AS NECESSARY. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.
- 5 NEW HVAC ROOF-TOP UNIT SUPPLIED WITH INTEGRAL DISCONNECT.
- 6 PROVIDE NEW OUTDOOR LED WALLPACK MOUNTED ON 4" WATERPROOF JUNCTION BOX ON UNISTRUT MOUNTING SYSTEM. LITHONIA LIGHTING TYPE TWPX1 LED-P2-50K-MVOLT-DBLXD, OR APPROVED EQUAL.
- 7 PROVIDE NEW 1-HOUR TIMER SWITCH IN WEATHERPROOF ENCLOSURE. PM CONTROLS TYPE PM-60M, OR APPROVED EQUAL. WIRE SO THAT TIMER SWITCH DOES NOT AFFECT ASSOCIATED GFCI RECEPTACLES ON SAME CIRCUIT.
- 8 PROVIDE STANDALONE UNISTRUT MOUNTING SYSTEM FOR FIXTURES AND SWITCHES IN THIS LOCATION. SEE TYPICAL DETAIL ON SHEET E002 FOR FURTHER INFORMATION.
- 9 PROVIDE CONVENIENCE GFCI RECEPTACLE IN WEATHERPROOF "WHILE-IN-USE" ENCLOSURE. MOUNT TO UNISTRUT MOUNTING SYSTEM.
- 10 ROOF-TOP EXHAUST FAN "EF-8". 120V, 1φ, 6.6A FLA, 8.2A MCA, 15A MOCP. EXHAUST FAN IS PROVIDED WITH NEMA-1 DISCONNECT SWITCH BY VENDOR. ELECTRICAL CONTRACTOR SHALL FIELD WIRE, AS NECESSARY. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.

FIRE ALARM PLAN NOTES

- 1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM WORK INCLUDING BUT NOT LIMITED TO: ADDITION OF STROBES, AUDIBLE DEVICES, CIRCUITRY EXTENSION, AND SYSTEM PROGRAM MODIFICATIONS. FURNISH AND INSTALL ALL NECESSARY CONTROL EQUIPMENT INCLUDING BOOSTER PANEL, INITIATING DEVICES AND NOTIFICATION APPLIANCES REQUIRED FOR THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEMS DETAILED ON THE CONTRACT DRAWINGS AND AS SPECIFIED HEREIN. THE EQUIPMENT FURNISHED SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT. THE CONTRACTOR SHALL SURVEY THE EXISTING CONTROL PANEL TO DETERMINE ANY NECESSARY MODIFICATIONS AND/OR ADDITIONS NECESSARY TO INCORPORATE THE DEVICES ADDED UNDER THIS CONTRACT. PROVIDE SYNCHRONIZING OF STROBES FOR ALL EXISTING, NEW & RELOCATED DEVICES WITHIN THE AREA OF WORK. SYNCHRONIZATION OF STROBES SHALL BE PER NFPA72 REQUIREMENTS. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE LOCAL AUTHORITY AND SHALL INCLUDE, BUT NOT LIMITED TO EQUIPMENT CUT SHEET, SEQUENCE OF OPERATION, BATTERY CALCULATIONS, CIRCUIT CAPACITY CALCULATIONS, WIRING DIAGRAMS, RISER DIAGRAMS AND FLOOR PLANS.
- 2 PROVIDE TWO CONTROL MODULES - ONE FOR SMOKE DETECTOR HVAC FAN SHUTDOWN AND ONE FOR OVERRIDE OF HVAC FAN SHUTDOWN. CONNECT TO FIRE ALARM SYSTEM AND PROGRAM SO THAT ANY AREA SMOKE OR RETURN AIR DUCT SMOKE DETECTOR CAUSES FAN SHUTDOWN. AHU START CIRCUIT WIRED VIA RELAY BY TEMP CONTROLS CONTRACTOR.
- 3 PROVIDE RETURN DUCT SMOKE DETECTOR, SAMPLE TUBE, AND REMOTE ALARM AND TEST SWITCH. PROGRAM DETECTORS FOR HVAC FAN SHUT DOWN. SEE MECHANICAL DRAWINGS FOR EXACT INSTALLATION LOCATION. REMOTE ALARM AND TEST SWITCH SHALL BE MOUNTED IN THE CEILING BELOW LOCATION SHOWN, ACCESSIBLE AND VISIBLE FROM THE INTERIOR OF THE BUILDING FOR EASE OF USE.
- 4 PROVIDE SUPPLY DUCT SMOKE DETECTOR, SAMPLE TUBE, AND REMOTE ALARM AND TEST SWITCH. PROGRAM DETECTORS FOR HVAC FAN SHUT DOWN. SEE MECHANICAL DRAWINGS FOR EXACT INSTALLATION LOCATION. REMOTE ALARM AND TEST SWITCH SHALL BE MOUNTED IN THE CEILING BELOW LOCATION SHOWN, ACCESSIBLE AND VISIBLE FROM THE INTERIOR OF THE BUILDING FOR EASE OF USE.



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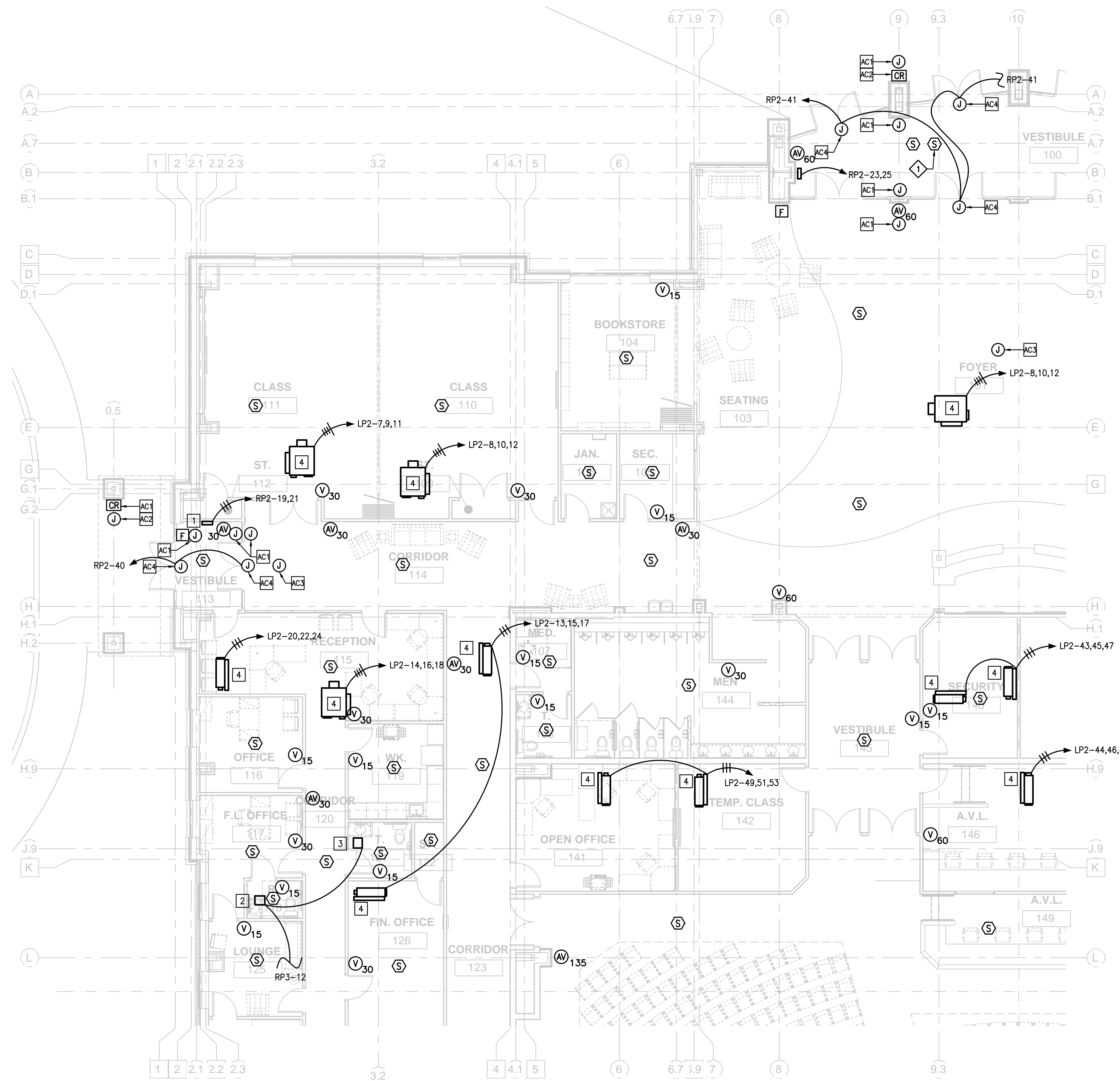
NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

DRAWING	DATE
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REVISIONS/ADDENDUMS

ROOFTOP PLAN SYSTEMS

E501
OF SHEETS
216118



PARTIAL FLOOR PLAN - SECTION 'A' SYSTEMS
 SCALE: 1/8" = 1'-0"

SYSTEM PLAN NOTES

- 1 UNIT HEATER "UH-A". 208V, 1φ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.
- 2 EXHAUST FAN "EF-6". 120V, 1φ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E302 FOR FURTHER DETAILS.
- 3 EXHAUST FAN "EF-3". 120V, 1φ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E302 FOR FURTHER DETAILS.
- 4 FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.

FIRE ALARM PLAN NOTES

- 1 SMOKE DETECTOR MOUNTED ON CEILING AT ROUGHLY 32' A.F.F.
- 2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM WORK INCLUDING BUT NOT LIMITED TO: ADDITION OF STROBES, AUDIBLE DEVICES, CIRCUITRY EXTENSION, AND SYSTEM PROGRAM MODIFICATIONS. FURNISH AND INSTALL ALL NECESSARY CONTROL EQUIPMENT INCLUDING BOOSTER PANEL, INITIATING DEVICES AND NOTIFICATION APPLIANCES REQUIRED FOR THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEMS DETAILED ON THE CONTRACT DRAWINGS AND AS SPECIFIED HEREIN. THE EQUIPMENT FURNISHED SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT. THE CONTRACTOR SHALL SURVEY THE EXISTING CONTROL PANEL TO DETERMINE ANY NECESSARY MODIFICATIONS AND/OR ADDITIONS NECESSARY TO INCORPORATE THE DEVICES ADDED UNDER THIS CONTRACT. PROVIDE SYNCHRONIZING OF STROBES FOR ALL EXISTING, NEW & RELOCATED DEVICES WITHIN THE AREA OF WORK. SYNCHRONIZATION OF STROBES SHALL BE PER NFPA72 REQUIREMENTS. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE LOCAL AUTHORITY AND SHALL INCLUDE, BUT NOT LIMITED TO EQUIPMENT CUT SHEET, SEQUENCE OF OPERATION, BATTERY CALCULATIONS, CIRCUIT CAPACITY CALCULATIONS, WIRING DIAGRAMS, RISER DIAGRAMS AND FLOOR PLANS.

ACCESS CONTROL PLAN NOTES

- AC1 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING PUSH PLATE AUTO DOOR OPENER BUTTON. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC2 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING CARD READER. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC3 PROVIDE CEILING MOUNTED 4" JUNCTION BOX FOR THE PURPOSE OF HOUSING MOTION DETECTOR. RUN 1" CONDUIT BACK TO SECURITY PANEL IN SECURITY ROOM [105]. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC4 PROVIDE 12"x12" BACKBOX IN ORDER TO HOUSE DEDICATED DOOR CONTROLLER (DDC). SEE TYPICAL DOOR CONTROLS INSTALLATION DETAILS ON SHEET E002.

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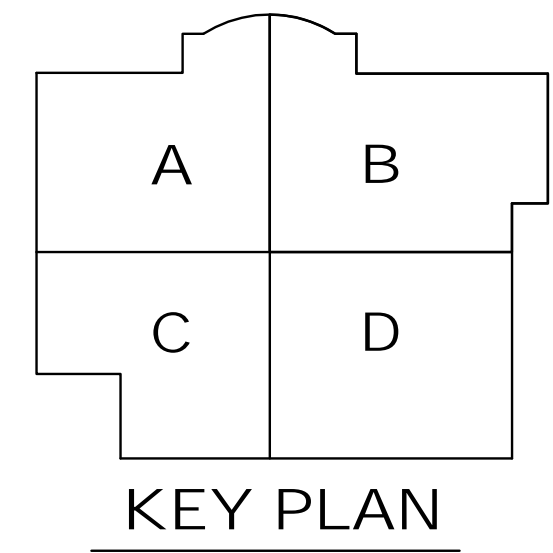
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 Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

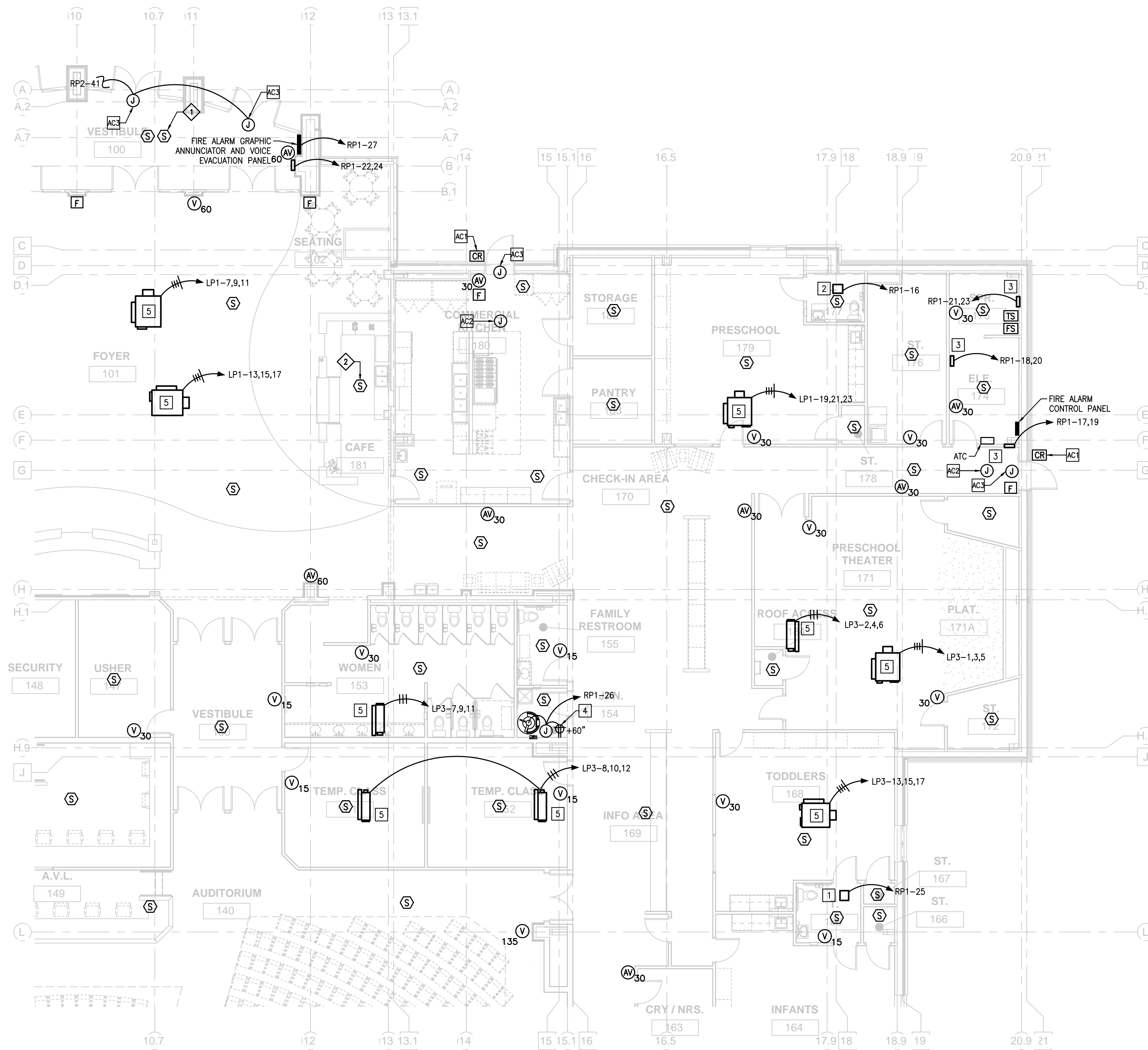
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REVISIONS/ADDENDUMS



FIRST FLOOR PLAN
 SECTION 'A'
 SYSTEMS

E502
 OF SHEETS
 216118



PARTIAL FLOOR PLAN – SECTION 'B' SYSTEMS

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

SYSTEM PLAN NOTES

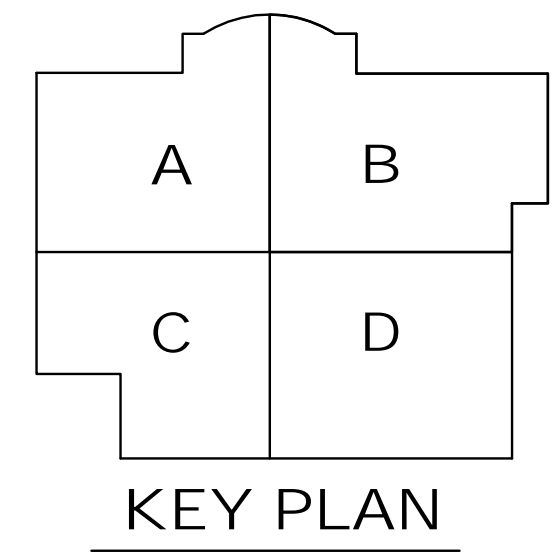
- 1 EXHAUST FAN "EF-5". 120V, 1φ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.
- 2 EXHAUST FAN "EF-4". 120V, 1φ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E303 FOR FURTHER DETAILS.
- 3 UNIT HEATER "UH-A". 208V, 1φ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.
- 4 GFCI RECEPTACLE FOR PURPOSE OF FEEDING HOT WATER RECIRCULATION PUMP. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH MECHANICAL EQUIPMENT BEING SERVED.
- 5 FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.

FIRE ALARM PLAN NOTES

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ACCESS CONTROL PLAN NOTES

- AC1 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING CARD READER. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC2 PROVIDE CEILING MOUNTED 4" JUNCTION BOX FOR THE PURPOSE OF HOUSING MOTION DETECTOR. RUN 1" CONDUIT BACK TO SECURITY PANEL IN SECURITY ROOM [105]. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC3 PROVIDE 12"x12" BACKBOX IN ORDER TO HOUSE DEDICATED DOOR CONTROLLER (DDC). SEE TYPICAL DOOR CONTROLS INSTALLATION DETAILS ON SHEET E002.



KEY PLAN

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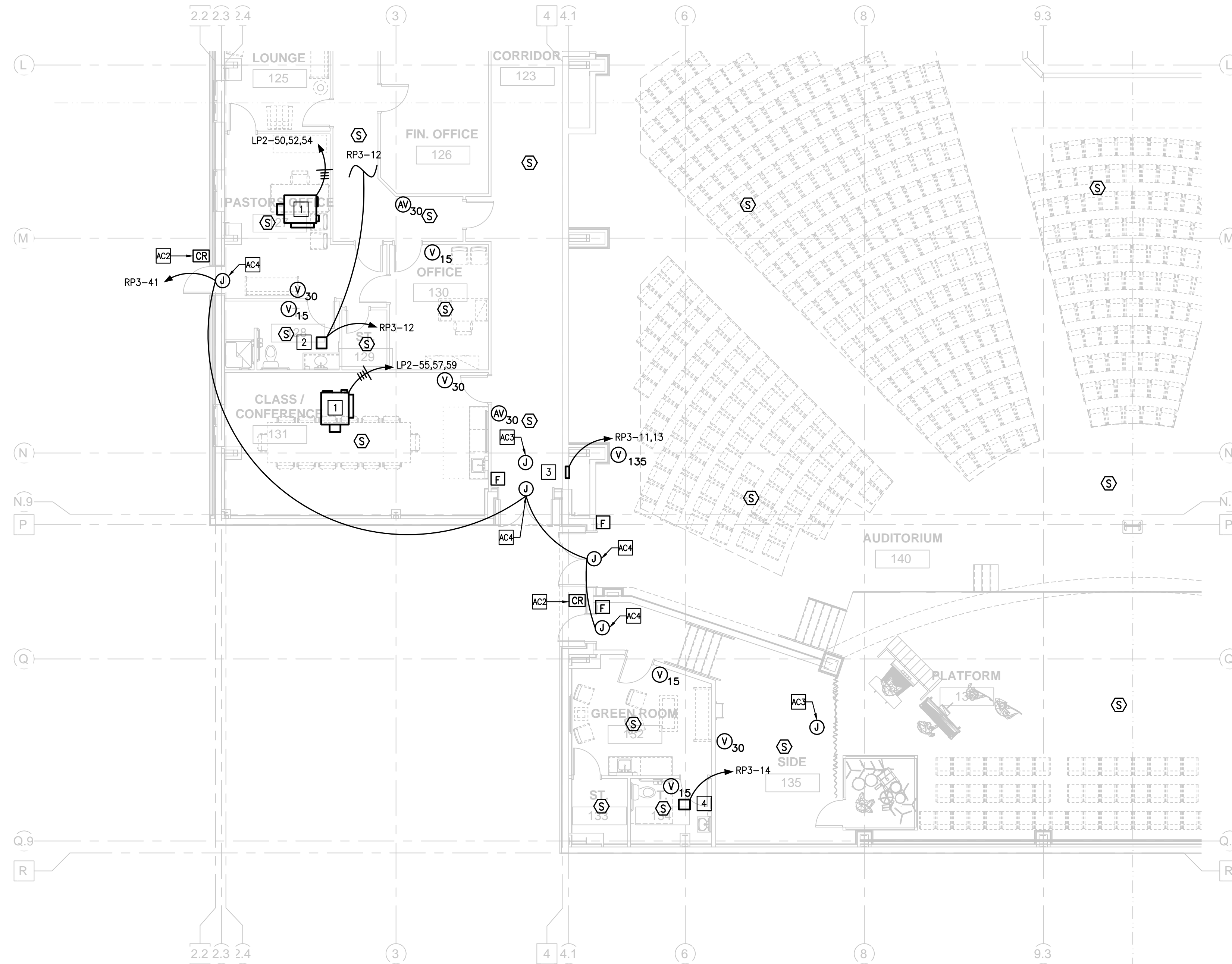
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REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 SECTION 'B'
 SYSTEMS

E503
 OF SHEETS
 216118



PARTIAL FLOOR PLAN – SECTION 'C' SYSTEMS ◊
 SCALE: 1/8" = 1'-0"

SYSTEM PLAN NOTES

- 1 FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.
- 2 EXHAUST FAN "EF-2". 120V, 1φ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E304 FOR FURTHER DETAILS.
- 3 UNIT HEATER "UH-A". 208V, 1φ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.
- 4 EXHAUST FAN "EF-1". 120V, 1φ, 0.14A FLA, WITH INTEGRAL DISCONNECT SWITCH. FAN SHALL BE CONTROLLED BY LOCAL LIGHTING CONTROLS. SEE LIGHTING PLAN ON SHEET E304 FOR FURTHER DETAILS.

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ACCESS CONTROL PLAN NOTES

- AC1 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING PUSH PLATE AUTO DOOR OPENER BUTTON. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC2 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING CARD READER. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC3 PROVIDE CEILING MOUNTED 4" JUNCTION BOX FOR THE PURPOSE OF HOUSING MOTION DETECTOR. RUN 1" CONDUIT BACK TO SECURITY PANEL IN SECURITY ROOM [105]. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
- AC4 PROVIDE 12"x12" BACKBOX IN ORDER TO HOUSE DEDICATED DOOR CONTROLLER (DDC). SEE TYPICAL DOOR CONTROLS INSTALLATION DETAILS ON SHEET E002.

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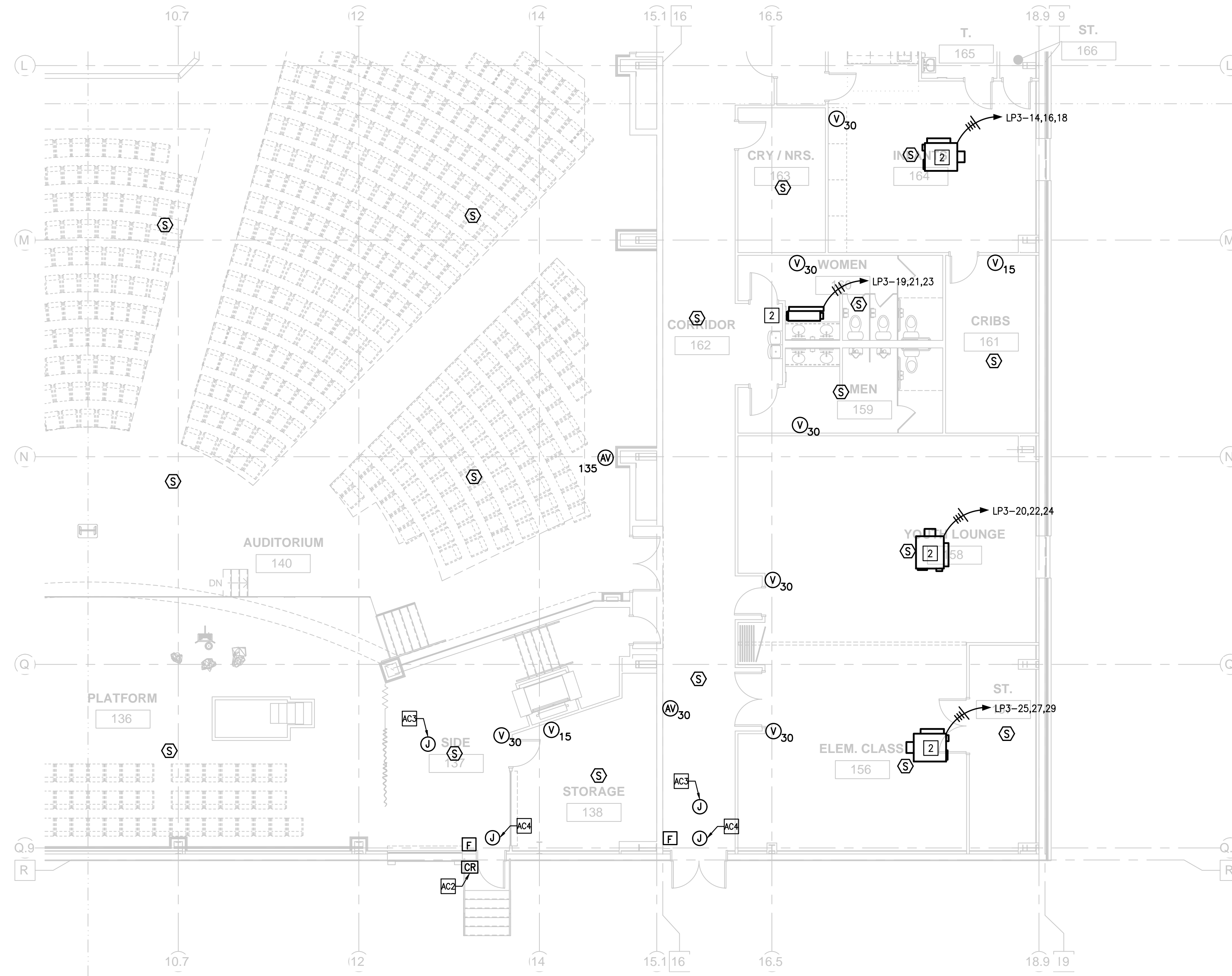
REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 SECTION 'C'
 SYSTEMS

E504

OF SHEETS

216118



PARTIAL FLOOR PLAN – SECTION 'D' SYSTEMS ◊
SCALE: 1/8" = 1'-0"

SYSTEM PLAN NOTES

- 1 UNIT HEATER "UH-A". 208V, 1φ, 2KW, 8.3A, WALL-MOUNTED WITH INTEGRAL DISCONNECT SWITCH.
- 2 FAN POWERED BOXES (FPB) AND VARIABLE AIR VOLUME (VAV) EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. FAN POWERED BOXES SHALL BE SUPPLIED WITH NEUTRAL TO FEED SINGLE PHASE FAN MOTOR.

FIRE ALARM PLAN NOTES

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ACCESS CONTROL PLAN NOTES

- AC1 PROVIDE 4" BACKBOX FOR THE PURPOSE OF HOUSING PUSH PLATE AUTO DOOR OPENER BUTTON. RUN 1" CONDUIT FROM BACKBOX TO ASSOCIATED DDC DOOR CONTROLLER ENCLOSURE. DEVICES SUPPLIED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
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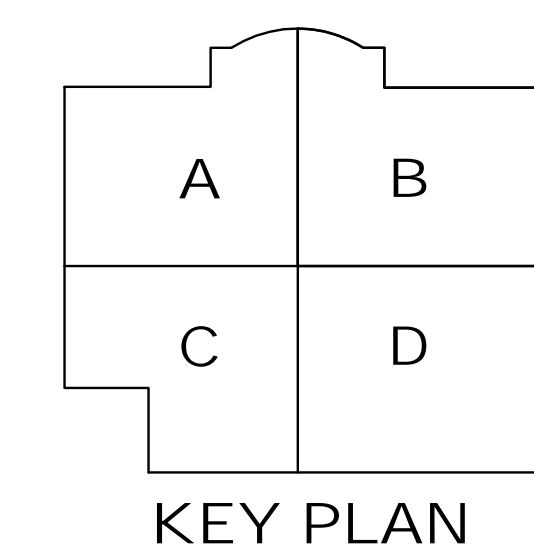
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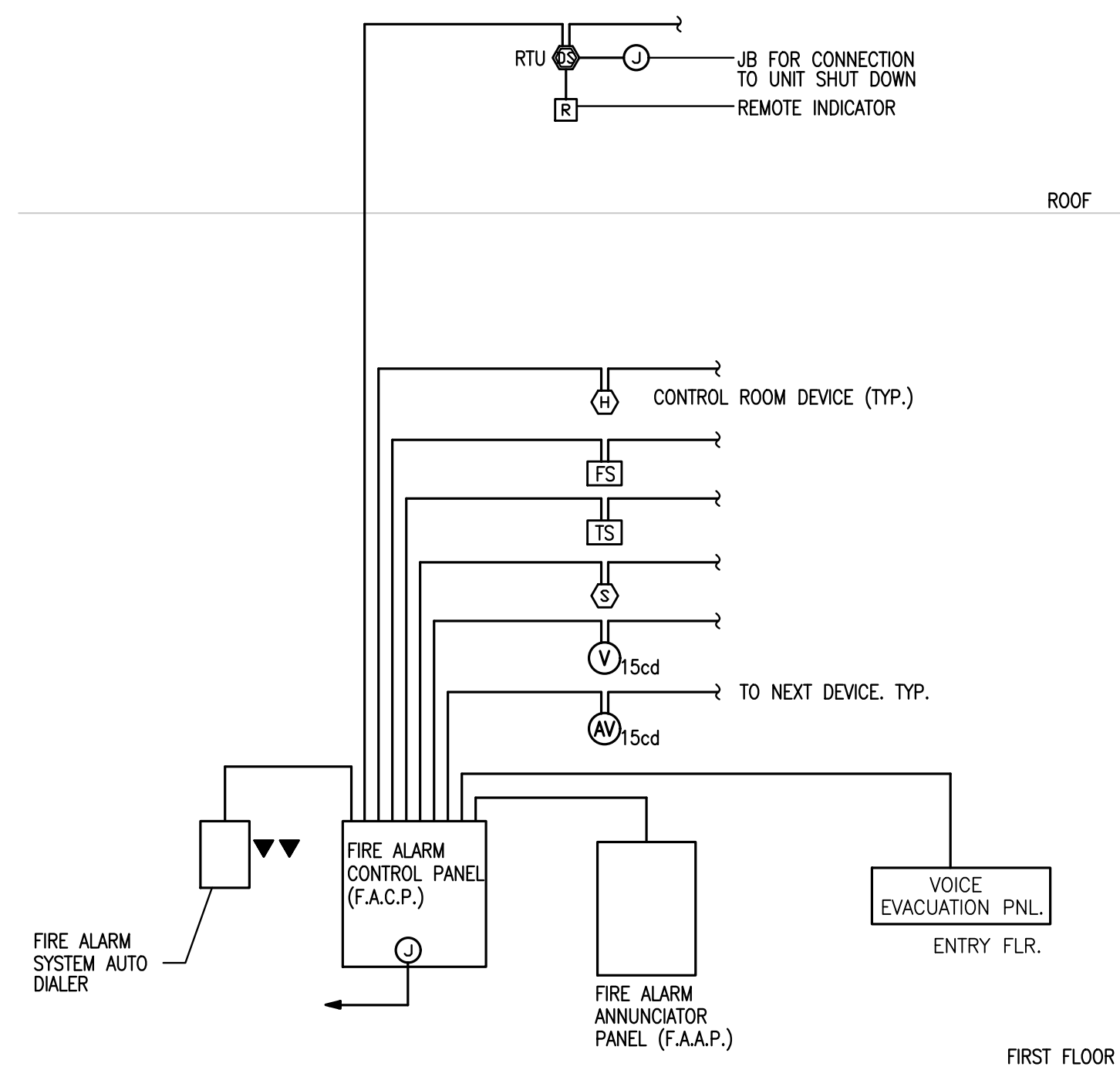
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<input type="checkbox"/> DD MEETING #3	10/06/2023
<input type="checkbox"/> BID SET	11/15/2023
<input checked="" type="checkbox"/> AVL COORD / BID SET	12/08/2023
<input type="checkbox"/> PERMIT SET	

REVISIONS/ADDENDUMS



FIRST FLOOR PLAN
SECTION 'D'
SYSTEMS

E505
OF SHEETS



FIRE ALARM SYSTEM RISER DIAGRAM

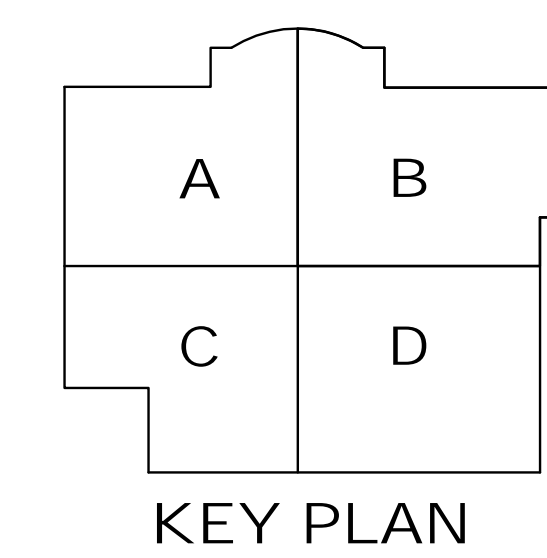
SCALE: NONE

FIRE ALARM RISER NOTES

1. ALL WIRE AND CONDUIT AND SHALL BE AS REQUIRED BY EQUIPMENT MANUFACTURER.
2. FIRE ALARM CONDUCTORS SHALL BE KEPT A MINIMUM DISTANCE OF 12" FROM ELECTRICAL WIRING.
3. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES.
4. PROVIDE AUTOMATIC DIALER FOR THE FIRE ALARM CONTROL PANEL.
5. PROVIDE BATTERY AND CHARGER SYSTEM AS INTEGRAL PART OF F.A.C.P.
6. THE VOICE EVACUATION PANEL SHALL BE SECURED FROM VANDALISM AND SHALL BE PROVIDED WITH BUILT-IN MICROPHONE AND ALL CALL CAPABILITY AS MINIMUM REQUIREMENTS, AND SHALL BE INSTALLED NEXT TO THE NEW FIRE ALARM ANNUNCIATOR PANEL. REFER TO VOICE EVACUATION SYSTEM GENERAL NOTES ON THIS SHEET.

VOICE EVACUATION SYSTEM GENERAL NOTES

1. THE VOICE EVACUATION PANEL DESIGN BASE IS EVAX 50 BY EVAX SYSTEMS SOUND SOLUTIONS, OR APPROVED EQUAL, AND OPERATES WITH ANY FIRE ALARM CONTROL PANEL (FACP).
2. THE VOICE EVACUATION PANEL SHALL BE INSTALLED IN A SEMI-FLUSH MOUNTED BACKBOX, WITH A HINGED AND KEY LOCKED DOOR. MOUNTING HEIGHT SHALL BE APPROXIMATELY FIFTY-TWO (52) INCHES ABOVE FINISHED FLOOR TO THE CENTER OF BACKBOX. THE BACKBOX DIMENSIONS ARE 14.5"W X 18"H X 4"D.
3. THE VOICE EVACUATION SYSTEM SHALL PROVIDE 50 WATTS SIGNAL POWER AND 50 WATTS VOICE POWER, AND SHALL BE UL LISTED.
4. THE VOICE EVACUATION SYSTEM SHALL BE MICROPROCESSOR BASED, AND SHALL CONTAIN AN INTEGRAL MICROPHONE, 50 WATT AUDIO AMPLIFIER, TONE GENERATOR, DIGITAL MESSAGE REPEATER, 120VAC POWER SUPPLY, BATTERIES AND BATTERY CHARGER.
5. THE VOICE EVACUATION MESSAGE/SIGNAL SHALL BE BROADCAST UNTIL THE FIRE ALARM CONTROL PANEL (FACP) IS RESET, OR UNTIL FIRE EMERGENCY PERSONNEL INTERRUPT THE BROADCAST WITH A MANUAL PAGE, OR RESET THE SYSTEM SHALL AUTOMATICALLY RETURN TO STANDBY (NORMAL OPERATING) CONDITION.
6. A SECONDARY MESSAGE SHALL BE PROVIDED WHICH CAN BE TRIGGERED BY THE CLOSURE OF A CONTACT FROM EITHER THE FACP OR FROM ANY NORMALLY OPEN CONTACT DEVICE.
7. REMOTE PAGING MICROPHONE(S) SHALL BE SUPPORTED BY THE SYSTEM THROUGH A SUPERVISED CIRCUIT. REMOTE MICROPHONE(S) MAY BE MOUNTED UP TO 5,000 FEET AWAY FROM THE VOICE EVACUATION PANEL.
8. THE ALARM COMMUNICATION SYSTEM SHALL BE DESIGNED AND INSTALLED SO DAMAGE TO ANY TERMINAL UNIT OR SPEAKER WILL NOT RENDER MORE THAN ONE ZONE OF THE SYSTEM INOPERATIVE.
9. THE SYSTEM SHALL BE CONTINUOUSLY ELECTRICALLY SUPERVISED AGAINST COMPONENT FAILURE OF THE AUDIOPATH INCLUDING AMPLIFIERS, SPEAKER WIRING, SWITCHES, AND ELECTRICAL CONTACTS AND SHALL DETECT OPENS, SHORTS AND GROUNDS WHICH MIGHT IMPAIR THE FUNCTION OF THE SYSTEM. BOTH A VISUAL AND AUDIBLE TROUBLE SIGNAL SHALL OPERATE AT AN APPROVED CENTRAL STATION.
10. ALL WIRING SHALL BE INSTALLED IN METALLIC TUBING OR APPROVED EQUIVALENT. THE INSTALLATION SHALL BE IN A MANNER WHICH WILL AFFORD THE MAXIMUM PROTECTION AGAINST THE EFFECTS OF FIRE AND WHICH WILL FACILITATE REPAIR OR REPLACEMENT.
11. THE SYSTEM SHALL BE INSTALLED SO TROUBLE CAN BE READILY DETECTED BY FLOOR AND DEVICE.
12. THERE SHALL BE A MAINTAINED CONTACT PUSH BUTTON AND VISUAL INDICATOR FOR EACH FLOOR LEVEL OR ZONE. AN "ALL CALL" POSITION IS ALSO REQUIRED. OPERATION SHALL BE BY SELECTIVE BASIS; I.E., ONE ZONE, ANY COMBINATION OF ZONES, OR BY ALL ZONES. ONE SET OF MAINTAINED PUSH BUTTONS FOR THE FIRE ALARM SYSTEM AND ONE SET FOR THE PUBLIC ADDRESS SYSTEM IS REQUIRED.
13. ZONES SHALL BE LIMITED TO A MAXIMUM OF 22,500 SQUARE FEET. IN NO INSTANCE SHALL A ZONE ENCOMPASS MORE THAN ONE FLOOR LEVEL. FLOORS SHALL ALARM ON A PER FLOOR BASIS AND ALARMS SHALL ANNUNCIATE BY FLOOR, ZONE AND DEVICE.
14. SPEAKERS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: ELEVATORS, ELEVATOR LOBBIES, CORRIDORS AND EXIT STAIRWELLS.
15. SPEAKERS SHALL BE LISTED BY A RECOGNIZED TESTING AUTHORITY FOR FIRE ALARM USE. SPEAKERS SHALL PROVIDE THE SOUND LEVELS SPECIFIED IN NFPA 72 AT ALL LOCATIONS IN THE STRUCTURE.
16. WALL MOUNTED SPEAKERS SHALL BE INSTALLED SO SOUND REPRODUCTION IS IN ONE DIRECTION ONLY. IN NO INSTANCE SHALL CORRIDOR SPEAKERS BE INSTALLED SO SOUND REPRODUCTION IS DIRECTED TOWARDS THE OPPOSITE WALL.
17. SPEAKER SPACING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER, THE LISTING AUTHORITY, AND ABOVE ALL, TO PROVIDE THE REQUIRED SOUND REPRODUCTION LISTED UNDER ITEM "15".
18. THE PRE-TAPED MESSAGE SHALL BE: "THERE IS A FIRE EMERGENCY IN THE BUILDING. YOU ARE TO LEAVE THE BUILDING BY THE NEAREST EXIT OR EXIT STAIR. DO NOT USE THE ELEVATORS." VISUAL INDICATION THAT THE MESSAGE IS BEING DELIVERED TO THE REQUIRED ZONES SHALL BE INSTALLED AT THE CONTROL PANEL.
19. FAILURE OF THE PRE-TAPED MESSAGE FOR ANY REASON SHALL CAUSE THE FIRE ALARM SIGNAL TO SOUND CONTINUOUSLY IN THE REQUIRED ZONES UNTIL THE SYSTEM HAS BEEN RESTORED TO NORMAL OR IS SILENCED AT THE CONTROL PANEL.
20. THE ALARM SIGNAL SHALL BE THE SLOW WHOOP SIGNAL. THE ALARM SIGNAL SHALL SOUND FOR A MAXIMUM OF 15 SECONDS FOLLOWED BY THE PRE-TAPED MESSAGE. BOTH SHALL SOUND ALTERNATELY IN SEQUENCE UNTIL SILENCED AT THE CONTROL PANEL OR WHEN THE FIRE ALARM PANEL IS RESTORED TO NORMAL. THERE SHALL BE NO MORE THAN A 5 SECOND PAUSE BETWEEN THE ALARM SIGNAL AND THE PRE-TAPED MESSAGE FOR EACH REVOLUTION.
21. UPON ACTIVATION OF ANY MANUAL ALARM OR AUTOMATIC FIRE DETECTION OR SUPPRESSION DEVICE, THE FIRE ALARM SYSTEM SHALL OPERATE ON ALL FLOOR LEVELS.
22. THE SYSTEM SHALL BE DESIGNED SO THE FIRE ALARM SIGNAL AND PRE-TAPED MESSAGE MAY BE TRANSMITTED TO ANY FLOOR WHILE VOICE MESSAGES ARE BEING TRANSMITTED TO OTHER FLOORS. IF THE VOICE INSTRUCTIONS ARE REQUIRED TO BE TRANSMITTED TO ANY FLOOR, THE FIRE ALARM SIGNAL AND PRE-TAPED MESSAGE SHALL AUTOMATICALLY RESTART OR CONTINUE IN THE REQUIRED SEQUENCE AFTER THE VOICE TRANSMISSION IS COMPLETED.
23. THE MICROPHONE FOR THE TRANSMISSION OF VOICE MESSAGES SHALL BE HAND-HELD TYPE WITH A 5 FOOT CABLE. THE CABLE SHALL BE PERMANENTLY CONNECTED AT BOTH ENDS WITH THE MICROPHONE HANGER MOUNTED ON THE FRONT OF THE PANEL.
24. ALARM TONE GENERATORS, PREAMPLIFIERS, POWER AMPLIFIERS AND POWER SUPPLIES SHALL BE CONTINUOUSLY SUPERVISED. BACKUP UNITS SHALL AUTOMATICALLY PROVIDE THE REQUIRED SIGNALING IN THE EVENT OF COMPONENT FAILURE.



KEY PLAN

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 Leaders in Innovative Church Design and Building

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 P.O. Box 370 Fax: (614) 875-7006
 Grove City, Ohio 43123 www.mcknightgroup.com

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

DESIGN TECH **DESIGN TECH INC.**
 Engineering Services
 10410 Kensington Parkway, Suite 200
 Kensington, MD 20895
 Phone: 301 949-2068 • Fax: 301 949-2069
 Project #: 19161

NEW BUILDING FOR:
GALILEE BAPTIST CHURCH
 6300 WOODYARD ROAD,
 UPPER MARLBORO, MD 20772

DRAWING	DATE
<input type="checkbox"/> DD MEETING #1	07/16/2019
<input type="checkbox"/> DD MEETING #2	09/06/2019
<input type="checkbox"/> DD MEETING #3	10/06/2023
<input type="checkbox"/> BID SET	11/15/2023
<input checked="" type="checkbox"/> AVL COORD / BID SET	12/08/2023
<input type="checkbox"/> PERMIT SET	

REVISIONS/ADDENDUMS

FIRE ALARM RISER DIAGRAM

E601
 OF SHEETS

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

DESIGN TECH INC.
 Engineering Services
 10410 Kensington Parkway, Suite 200
 Kensington, MD 20895
 Phone: 301 949-2068 • Fax: 301 949-2069
 Project #: 19161

NEW BUILDING FOR:
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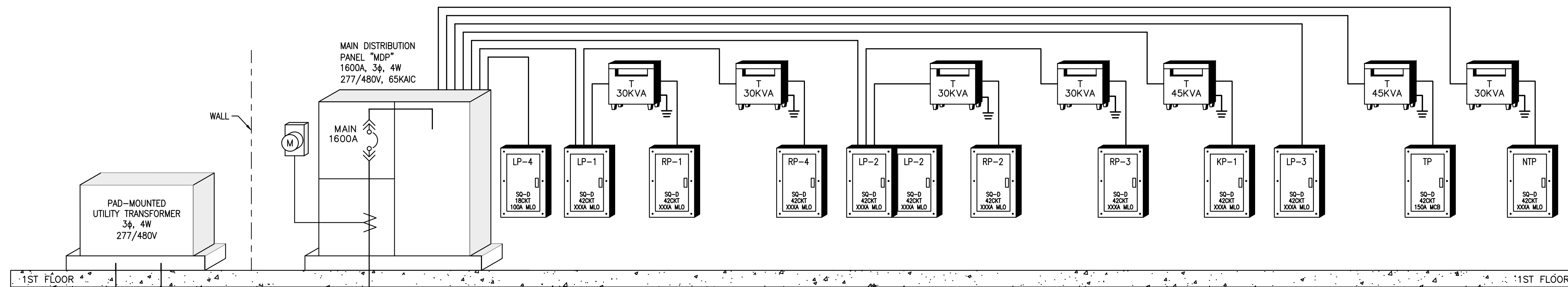
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<input type="checkbox"/> BID SET	11/15/2023
<input checked="" type="checkbox"/> AVL COORD / BID SET	12/08/2023
<input type="checkbox"/> PERMIT SET	

REVISIONS/ADDENDUMS

FIRST FLOOR PLAN
 RISER DIAGRAM
 POWER

E701
 OF SHEETS

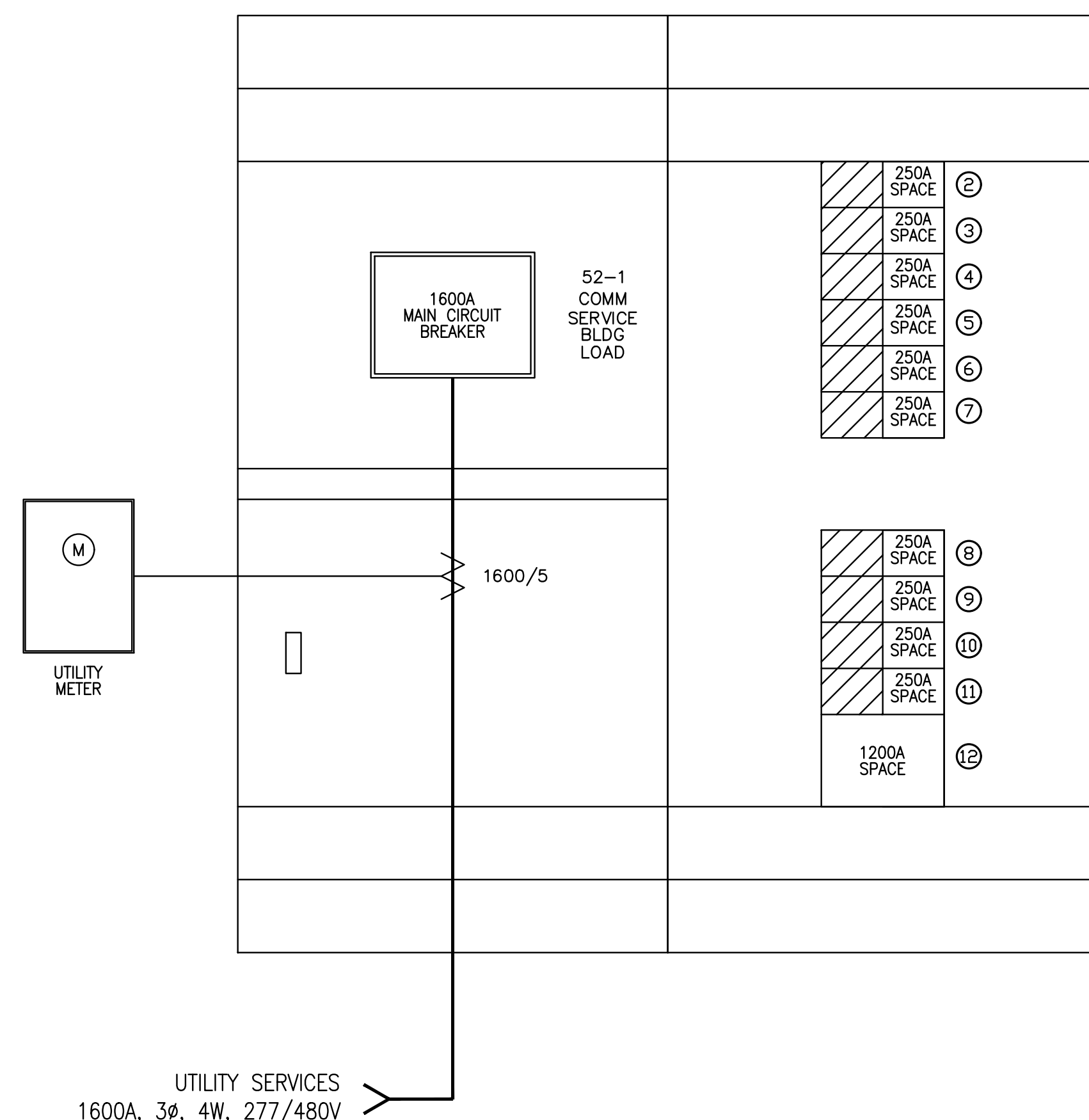
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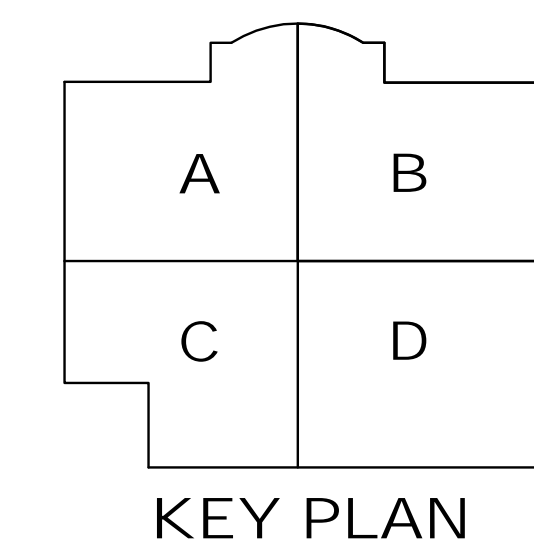
RISER DIAGRAM
 SCALE: N.T.S.

3-4" C.
 4" C. FOR UTILITY PRIMARY
 1-4" C. FOR SPARE
 FOR POWER CO. PRIMARY

8-4" C.
 4- SETS OF 4#600 KCMIL &
 4- 4" SPARE



SWITCHBOARD "MSB" SCHEDULE							
NO.	LOAD	FRAME/TRIP AMPS	TYPE	FEEDER	GND	C"	REMARKS
52-1	COMMERCIAL SERVICE BUILDING LOAD	1600/1600	MASTERPACT NW	BUS	-	-	65KAIC, MICROLOGIC 6.0A
52-2	RTU-1	250/175	POWERPACT JJA	3#2/0	#6	2"	-
52-3	RTU-4	250/100	POWERPACT JJA	3#3	#8	1-1/4"	-
52-4	LP-1	250/250	POWERPACT JJA	4#250KCMIL	#4	3"	-
52-5	LP-2	250/250	POWERPACT JJA	4#250KCMIL	#4	3"	-
52-6	KP-1 (VIA 45KVA TRANSFORMER)	250/80	POWERPACT JJA	3#4	#8	1-1/4"	-
52-7	LP-3	250/250	POWERPACT JJA	4#250KCMIL	#4	3"	-
52-8	LP-4 (OUTDOOR LIGHTING)	250/100	POWERPACT JJA	4#3	#8	1-1/4"	-
52-9	TP	250/-	POWERPACT JJA	-	-	-	-
52-10	NTP	250/-	POWERPACT JJA	-	-	-	-
52-11	PREPARED SPACE	250/-	POWERPACT JJA	-	-	-	-
52-12	PREPARED SPACE	1200/-	XXXXXX	-	-	-	-



PANELBOARD SCHEDULE (NEW WORK)														RP-4(N)							
VOLTAGE	PHASE	WIRE	MCB(A)	MLO(A)	BUS AMPS	AIC	MOUNTING	REMARKS						SECTIONS							
120/208	3	4	100A	-	225A	10,000	SURFACE							1 OF 1							
PROVIDE EQUIPMENT GROUND BUS																					
CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #							
1	RMS 163/64 CONV REC	2#12	#12	3/4"	20A	1.44	A	1.08	1 20A	3/4"	#12	2#12	CORR 162 CONV REC	2							
3	RMS 156/58 CONV REC	2#12	#12	3/4"	20A	1.44	B	0.59	1 20A	3/4"	#12	2#12	CORR 162 WTR ENT	4							
5	RR 159/60 GFCT REC	2#12	#12	3/4"	20A	1.08	C	0.72	1 20A	3/4"	#12	2#12	CRIBS 161 CONV REC	6							
7	SIDE 137/38 CONV REC	2#12	#12	3/4"	20A	1.08	A	1.80	1 20A	3/4"	#12	2#12	STAGE WHL CHAIR LIFT	8							
9	CORRIDOR 162	2#12	#12	3/4"	20A	2	1.00	B	0.05	1 20A	3/4"	#12	2#12	STAGE STEP LIGHTS	10						
11	UNIT HEATER A				1.00	C	0.90	1 20A	3/4"	#12	2#12		RM 156/58 AUTO REC	12							
13	OUTDOOR GFCT DUP	2#12	#12	3/4"	20A	1	0.54	A	0.46	1 20A	3/4"	#12	2#12	EX FAN EF-7	14						
15	SPARE				20A	1							SPARE	16							
17	SPARE				20A	1							SPARE	18							
19	SPARE				20A	1							SPARE	20							
21	SPARE				20A	1							SPARE	22							
23	SPARE				20A	1							SPARE	24							
25	SPARE				20A	1							SPARE	26							
27	SPARE				20A	1							SPARE	28							
29	SPARE				20A	1							SPARE	30							
31	SPARE				20A	1							SPARE	32							
33	SPARE				20A	1							SPARE	34							
35	SPARE				20A	1							SPARE	36							
37	SPARE				20A	1							SPARE	38							
39	BAPTISTRY	4#6	#10	1"	60A	3	3.33	C	1 20A				SPARE	40							
41					3.33	C	0.18	1 20A	3/4"	#12	2#12		ROOFTOP GFCT/LTS	42							
TOTAL LOAD PER PHASE (KVA) <table border="1"><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>6.40</td><td>6.32</td><td>7.21</td></tr></table>																A	B	C	6.40	6.32	7.21
A	B	C																			
6.40	6.32	7.21																			
CONNECTED TOTAL (KVA) 19.93																					
CONNECTED AMPACITY (A) 55.33																					

PANELBOARD SCHEDULE (NEW WORK)														KP-1(N)							
VOLTAGE	PHASE	WIRE	MCB(A)	MLO(A)	BUS AMPS	AIC	MOUNTING	REMARKS						SECTIONS							
120/208	3	4	150A	-	225A	10,000	SURFACE							1 OF 1							
PROVIDE EQUIPMENT GROUND BUS																					
CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #							
1	KITCHEN REF/FREEZER	2#12	#12	3/4"	20A	1.05	A	1.50	1 20A	3/4"	#12	2#12	KITCHEN MBL WRM CART	2							
3	KITCHEN REF/FREEZER	2#12	#12	3/4"	20A	1.05	B	0.65	1 20A	3/4"	#12	2#12	KITCHEN REF/FREEZER	4							
5	KITCHEN DISHWASHER	2#12	#12	3/4"	20A	1.85	C	1.85	1 20A	3/4"	#12	2#12	KITCHEN DISHWASHER	6							
7	KITCHEN CNTR GFCT	2#12	#12	3/4"	20A	1.00	A	1.00	1 20A	3/4"	#12	2#12	KITCHEN CNTR GFCT	8							
9	KITCHEN CNTR GFCT	2#12	#12	3/4"	20A	1.00	B	1.00	1 20A	3/4"	#12	2#12	KITCHEN CNTR GFCT	10							
11	KITCHEN CNTR GFCT	2#12	#12	3/4"	20A	1.00	C	1.00	1 20A	3/4"	#12	2#12	KITCHEN CNTR GFCT	12							
13	KITCHEN CNTR GFCT	2#12	#12	3/4"	20A	1.00	A	0.72	1 20A	3/4"	#12	2#12	KITCHEN CONV REC	14							
15	KITCHEN CNTR GFCT	2#12	#12	3/4"	20A	1.00	B	0.18	1 20A	3/4"	#12	2#12	KITCHEN FRYER	16							
17	KITCHEN DBL OVEN	2#12	#12	3/4"	20A	1.85	C	0.48	1 20A	3/4"	#12	2#12	KITCHEN RANGE/OVEN	18							
19	KITCHEN CNTR GFCT	2#12	#12	3/4"	20A	1.00	A	1.00	1 20A	3/4"	#12	2#12	KITCHEN CNTR GFCT	20							
21	CAFÉ REGISTER	2#12	#12	3/4"	20A	1.00	B	0.18	1 20A	3/4"	#12	2#12	CAFÉ REGISTER	22							
23	CAFÉ CNTR GFCT	2#12	#12	3/4"	20A	1.00	C	1.80	1 20A	3/4"	#12	2#12	CAFÉ BLENDER	24							
25	CAFÉ CNTR GFCT	2#12	#12	3/4"	20A	1.00	A	1.78	2 20A	3/4"	#12	2#12	CAFÉ COFFEE MAKER	26							
27	CAFÉ BLENDER	2#12	#12	3/4"	20A	1.80	B	1.78					CAFÉ BLENDER	28							
29	CAFÉ CNTR GFCT	2#12	#12	3/4"	20A	1.00	C	1.00	1 20A	3/4"	#12	2#12	CAFÉ CNTR GFCT	30							
31	CAFÉ TV/MONITORS	2#12	#12	3/4"	20A	1.00	B	1.00	1 20A	3/4"	#12	2#12	CAFÉ CNTR GFCT	32							
33	CAFÉ CNTR GFCT	2#12	#12	3/4"	20A	1.00	A	1.27	2 20A	3/4"	#12	2#12	CAFÉ COFFEE MAKER	34							
35	CAFÉ DISPLAY CASE	2#12	#12	3/4"	20A	1.00	C	1.27	2 20A	3/4"	#12	2#12	CAFÉ COFFEE MAKER	36							
37	EXH HOOD LTS	2#12	#12	3/4"	20A	1	0.30	B	1.80	1 20A	3/4"	#12	2#12	EXH HOOD CONTROL PNL	38						
39	KITCHEN EXH HOOD				0.73	C	1.00						EXHAUST HOOD	40							
41	EXHAUST FAN KEF-1	3#12	#12	3/4"	20A	3	0.73	A	1.00	3 20A	3/4"	#12	3#12	MAKE UP AIR UNIT	42						
43	SPARE				20A	1							SPARE	44							
45	SPARE				20A	1							SPARE	46							
47	SPARE				20A	1							SPARE	48							
49	SPARE				20A	1							SPARE	50							
51	SPARE				20A	1							SPARE	52							
53	SPARE				20A	1							SPARE	54							
TOTAL LOAD PER PHASE (KVA) <table border="1"><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>9.79</td><td>7.94</td><td>9.48</td></tr></table>																A	B	C	9.79	7.94	9.48
A	B	C																			
9.79	7.94	9.48																			
CONNECTED TOTAL (KVA) 27.21																					
CONNECTED AMPACITY (A) 75.53																					

PANELBOARD SCHEDULE (NEW WORK)														INVERTER EMERGENCY LIGHT(S)					
VOLTAGE	PHASE	WIRE	MCB(A)	MLO(A)	BUS AMPS	AIC	MOUNTING	REMARKS						SECTIONS					
120/240	1	3	-	-	-	-	-	DISTRIBUTION PANEL IS PROVIDED INTEGRAL TO THE EMERGENCY LIGHTING INVERTER "EM INV". SEE INVERTER INSTALLATION MANUAL FOR FURTHER CIRCUIT BREAKER CONNECTION INFORMATION.											
CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #					
1	AUDIT HOUSE LTS	2#12	#12	3/4"	20A	1.08	A	1.08	1 20A	3/4"	#12	2#12	AUDIT HOUSE LTS	2					
3	AUDIT HOUSE LTS	2#12	#12	3/4"	20A	1.08	B	1.08	1 20A	3/4"	#12	2#12	AUDIT HOUSE LTS	4					
5	AUDIT HOUSE LTS	2#12	#12	3/4"	20A	1.08	C	1.08	1 20A	3/4"	#12	2#12	AUDIT HOUSE LTS	6					
7	SPARE				20A	1							SPARE	8					
9	SPARE				20A	1							SPARE	10					
11	SPARE				20A	1							SPARE	12					
TOTAL LOAD PER PHASE (KVA) <table border="1"><tr><td>A</td><td>B</td></tr><tr><td>3.92</td><td>2.16</td></tr></table>																A	B	3.92	2.16
A	B																		
3.92	2.16																		
CONNECTED TOTAL (KVA) 6.07																			
CONNECTED AMPACITY (A) 25.29																			

PANELBOARD SCHEDULE (NEW WORK)														RP-2(N)							
VOLTAGE	PHASE	WIRE	MCB(A)	MLO(A)	BUS AMPS	AIC	MOUNTING	REMARKS						SECTIONS							
120/208	3	4	100A	-	225A	10,000	SURFACE							1 OF 1							
PROVIDE EQUIPMENT GROUND BUS																					
CKT. #	ITEM SERVED	WIRE	GROUND	CONDUIT	CKT. BRK	LOAD (KVA)	PHASE	LOAD (KVA)	CKT. BRK	CONDUIT	GROUND	WIRE	ITEM SERVED	CKT. #							
1	CLASS 110/111 REC	2#12	#12	3/4"	20A	1.44	A	1.40	1 20A	3/4"	#12	2#12	JAN 183/MEN 144 GFCT REC	2							
3	CORR 123 REC	2#12	#12	3/4"	20A	1.26	B	1.80	1 20A	3/4"	#12	2#12	RM 115/17/18/25 CONV REC	4							
5	OFC 115/17/18/26 WKST REC	2#12	#12	3/4"	20A	1.60	C	1.60	1 20A	3/4"	#12	2#12	RM 115/26 WKST REC	6							
7	RM 118/21 GFCT REC	2#12	#12	3/4"	20A	1.00	A	0.50	1 20A	3/4"	#12	2#12	RM 119 DED REC	8							
9	RM 119 DED REC	2#12	#12	3/4"	20A	1.00	B	0.50	1 20A	3/4"	#12	2#12	RM 119 DED REC	10							
11	RM 119 COPIER	2#12	#12	3/4"	20A	1.00	C	1.00	1 20A	3/4"	#12	2#12	OFC 141 COPIER	12							
13	OFC 141 WKST REC	2#12	#12	3/4"	20A	1.60	A	1.08	1 20A	3/4"	#12	2#12	CLASS 142 TV REC	14							
15	SEC 148 REC	2#12	#12	3/4"	20A	1.00	B	1.80	1 20A	3/4"	#12	2#12	RECEPTION 101 DESK REC	16							
17	AUD 140/145 CONV REC	2#12	#12	3/4"	20A	1.00	C	1.26	1 20A	3/4"	#12	2#12	RM 100/04 CONV REC	18							
19	VESTIBULE 113	2#12	#12	3/4"	20A	2	1.00	A	1.00	2 20A	3/4"	#12	2#12	BOOK 104 ROLLUP DOOR	20						
21	UNIT HEATER A				1.00	B	0.72	1 20A	3/4"	#12	2#12		RMS 110/11 AUTO REC	22							
23	VESTIBULE 100	2#12	#12	3/4"	20A	2	1.00	C	1.62	1 20A	3/4"	#12	2#12	RM 115/16/17/19 AUTO REC	24						
25	UNIT HEATER A				1.00	A	1.08	1 20A	3/4"	#12	2#12		RM 126/41/42 AUTO REC	26							
27	EXTERIOR DUP GFCT	2#12	#12	3/4"	20A	1	0.72	B	0.90	1 20A	3/4"	#12	2#12	SEC 105 REC	28						
29	SEC 105 DED QUAD	2#12	#12	3/4"	20A	1	0.36	C	0.72	1 20A	3/4"	#12	2#12	BOOK 104 REC	30						
31	SPARE				20A	1							EX FAN EF-8/EF-11	32							
33	SPARE				20A	1							SPARE	34							
35	SPARE				20A	1							SPARE	36							
37	SPARE				20A	1							SPARE	38							
39	SPARE				20A	1							VEST 113 ACCESS CNTRL	40							
41	VEST 100 ACCESS CNTRL	2#12	#12	3/4"	20A	1	1.00	C	0.36	1 20A	3/4"	#12	2#12	ROOFTOP GFCT/LTS	42						
TOTAL LOAD PER PHASE (KVA) <table border="1"><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>8.74</td><td>7.56</td><td>8.54</td></tr></table>																A	B	C	8.74	7.56	8.54
A	B	C																			
8.74	7.56	8.54																			
CONNECTED TOTAL (KVA) 24.84																					
CONNECTED AMPACITY (A) 68.95																					

PANELBOARD SCHEDULE (NEW WORK)														TP(N)	
VOLTAGE	PHASE	WIRE	MCB(A)	MLO(A)	BUS AMPS	AIC	MOUNTING	REMARKS						SECTIONS	
120/208	3	4	150A	-	225A	1									