

2018 NORTH CAROLINA ENERGY CONSERVATION CODE	
COMMERCIAL ENERGY EFFICIENCY - ELECTRICAL SUMMARY	
C401 METHOD OF COMPLIANCE	
☒ 2018 NCECC CHAPTER 4	☐ NC SPECIFIC COMCHECK PROVIDED
☐ N/A BASED ON PROJECT SCOPE	☐ ASHRAE 90.1-2013
C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS	
☒ C406.1.1 EFFICIENT MECH EQUIPMENT	☐ C406.1.4 ON-SITE RENEWABLE ENERGY
☒ C406.1.2 REDUCED LTG DENSITY	☐ C406.1.5 DEDICATED DATA SYSTEM
☒ C406.1.3 ENHANCED DIGITAL LTG CNTLS	☐ C406.1.6 HI-EFF SERVICE WTR HTG
☐ NOT APPLICABLE BASED ON PROJECT SCOPE	
C405.2 - LIGHTING CONTROLS (MANDATORY REQUIREMENTS):	
☒ LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION C405.2, EXCEPT WHERE EXEMPT.	
☐ NOT APPLICABLE	
C405.3 - EXIT SIGNS (MANDATORY REQUIREMENTS):	
☒ INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE.	
☐ NOT APPLICABLE	
C405.4 - INTERIOR LIGHTING POWER REQUIREMENTS (EXCEPTION) (NON-EXEMPT):	
☐ NOT APPLICABLE PER 2018 NCECC C503.1, EXCEPTION 2.G.	
C405.4.1 - TOTAL CONNECTED INTERIOR LIGHTING POWER:	
12,590 WATTS SPECIFIED	
44% 10% REDUCTION OF ALLOWED VS. SPECIFIED (APPLICABLE IF C405.1.2 IS SELECTED)	
C405.4.2 - TOTAL ALLOWABLE INTERIOR LIGHTING POWER:	
22,303 WATTS ALLOWED	
METHOD OF COMPLIANCE:	
☐ BUILDING AREA METHOD	☒ SPACE-BY-SPACE METHOD
C405.5.1 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT):	
☐ NOT APPLICABLE	
TOTAL CONNECTED EXTERIOR LIGHTING POWER:	
1,230 WATTS SPECIFIED	
TOTAL ALLOWABLE EXTERIOR LIGHTING POWER:	
3,597 WATTS ALLOWED	
C405.6 - ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS):	
☐ SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP R-2 BUILDINGS.	
☒ NOT APPLICABLE	
C405.7 - ELECTRICAL TRANSFORMERS (MANDATORY REQUIREMENTS):	
☒ ELECTRICAL TRANSFORMERS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.7, EXCEPT WHERE EXEMPT.	
☐ NOT APPLICABLE	
C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS):	
☒ ELECTRICAL MOTORS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.8, EXCEPT WHERE EXEMPT.	
☐ NOT APPLICABLE	
C408 - SYSTEM COMMISSIONING:	
☒ BUILDING IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408.	
☐ BUILDING IS GREATER THAN 10,000 SQUARE FEET AND REQUIRES SYSTEM COMMISSIONING PER SECTION C408.	

COORDINATION DRAWINGS

THE MECHANICAL CONTRACTOR SHALL ORGANIZE COORDINATION MEETINGS TO DEVELOP A SET OF BIM COORDINATION DRAWINGS WITH ALL CONTRACTORS (ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION, IT/DATA, AND GENERAL CONTRACTOR). THE MECHANICAL CONTRACTOR WILL HAVE THE LEAD, RESPONSIBILITY FOR THE COORDINATION DRAWINGS. THE MECHANICAL CONTRACTOR SHALL PRODUCE THE ORIGINAL DRAWINGS AND FORWARD THE DRAWINGS TO EACH OF THE OTHER CONTRACTORS FOR THEM TO ADD THEIR SYSTEMS TO THIS SET OF COORDINATION DRAWINGS. THE CONTRACTORS WILL DEVELOP THE DRAWINGS IN THIS ORDER: MECHANICAL, FIRE PROTECTION, PLUMBING, ELECTRICAL, IT/DATA, AND GENERAL. THIS SHALL ALSO BE THE ORDER OF PRECEDENCE FOR INSTALLATION OF SYSTEMS. ANY RELOCATION OF SYSTEM ROUTINGS WILL BE FOUND IN THE COORDINATION PHASE AND NOTICED BY EACH OF THE CONTRACTORS. THESE DRAWINGS, WHEN COMPLETED, SHALL BE SIGNED OFF BY ALL OF THE ABOVE LISTED PARTIES. DRAWINGS SHALL BE COMPLETED PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK AND PIPING SYSTEMS, OR PURCHASE OF EQUIPMENT. THE FOLLOWING ITEMS REPRESENT THE MINIMUM REQUIREMENTS AND COORDINATION DRAWINGS:

- ALL COORDINATION DRAWINGS WILL BE PRODUCED IN REVIT AT 1/4"= 1'-0" SCALE
- COORDINATION DRAWINGS WILL BE DISTRIBUTED ON REPRODUCIBLE MATERIAL 48"x36"
- COORDINATION DRAWINGS ARE NOT SHOP DRAWINGS AND ARE REQUIRED IN ADDITION TO SHOP DRAWINGS.
- ONCE THE COMPLETE COORDINATION DRAWINGS HAVE BEEN COMPILED, THE MECHANICAL CONTRACTOR WILL DISTRIBUTE ONE SIGNED SET TO EACH OF THE FOLLOWING CONTRACTORS: ELECTRICAL, PLUMBING, FIRE PROTECTION, AND GENERAL. ADDITIONAL SETS WILL BE SENT TO THE OWNER, ARCHITECT, AND ENGINEER.

THE USE OF BUILDING INFORMATION MODELING (BIM) THROUGHOUT THE CONSTRUCTION PROCESS IS A REQUIREMENT FOR THIS PROJECT TO HELP REDUCE OR ELIMINATE FIELD DETECTED CONFLICTS, IMPROVE CONSTRUCTION QUALITY AND MAINTAIN AN AGGRESSIVE SCHEDULE. THE CONTRACTOR WILL BE RESPONSIBLE FOR CREATING THE MODEL AND MANAGING THE COORDINATION AND COLLISION DETECTION PROCESS. THE MODEL MUST CONTAIN COMPLETE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS CONSISTENT WITH THE DESIGN AND FABRICATION DRAWINGS.

COMMISSIONING NOTE

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S COMMISSIONING AGENT AND PROVIDE ALL NECESSARY TIME, MATERIALS, AND PROCEDURES REQUIRED FOR A FULLY COMMISSIONED PROJECT.

LOAD TABULATION						
LOADS IN KVA		EXISTING DEMAND		NEW CONNECTED		TOTAL KVA
		SINGLE PHASE	THREE PHASE	SINGLE PHASE	THREE PHASE	
LIGHTS				15.5	125	19.4
VENTILATION				50.0	220.0	270.0
MOTORS					30.0	30.0
KITCHEN				80.0	120.0	200.0
RECEPTACLES				23.5	NEC	16.8
WATER HEATER				5.0	125	6.3
MISC.				110.0	55.0	165.0
FUTURE ALLOWANCE				100.0	50.0	150.0
TOTAL				859		857.4

DEVICES AND PATHWAYS

	WIRING SYSTEM CONCEALED IN WALL OR CEILING.
	WIRING SYSTEM CONCEALED IN OR UNDER SLAB OR UNDERGROUND.
	WIRING SYSTEM EXPOSED
	CONDUIT TURNED UP TO FLOOR ABOVE.
	CONDUIT TURNED DOWN TO FLOOR BELOW.
	BRANCH CIRCUIT HOMERUN TO PANEL.
	JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED.
	4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
	JUNCTION BOX FOR HAND DRYER CONNECTION. SEE MOUNTING HEIGHTS DETAIL FOR EXACT HEIGHT. SEE ARCH. SHEETS FOR COORDINATION. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING. PROVIDE WITH MANUAL TOGGLE SWITCH DISCONNECT MOUNTED ABOVE CEILING. IF MOUNTED IN HARD CEILING SPACE AN ACCESS DOOR SHALL BE PROVIDED AT TOGGLE SWITCH LOCATION.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT.) HUBBELL 5352, OR EQUAL.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSPLASH, OR AT HEIGHT NOTED. SEE MOUNTING HEIGHTS OF DEVICES DETAILS. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL DRAWING CASEWORK DETAILS AND ELEVATIONS.
	QUAD RECEPTACLE. TWO NEMA 5-20R DUPLEX RECEPTACLES.
	STANDARD TWO NEMA 5-20R DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
	GROUND FAULT RECEPTACLE. NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE WITHIN 6" OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	ISOLATED GROUND RECEPTACLE. NEMA 5-20R DUPLEX.
	WEATHERPROOF RECEPTACLE. NEMA 5-20R DUPLEX. COVER SHALL BE INTERMATIC WWP100 (CLEAR) OR EQUAL.
	COMBINATION 20A SPEC GRADE DUPLEX RECEPTACLE WITH (2) USB JACKS. LEGRAND OR SPECIFIED EQUAL.
	CEILING MOUNTED DUPLEX RECEPTACLE HUBBELL OR EQUAL. FLUSH MOUNTED AT THE CEILING.
	PROVIDE CEILING MOUNTED JUNCTION BOX FOR PROJECTOR SCREEN. VERIFY SCREEN CONTROL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
	EMERGENCY POWER OFF. SEE RESPECTIVE FLOOR PLAN FOR DETAIL. REFERENCE.
	SURGE PROTECTION DEVICE (SPD); SEE DETAIL.
	SURFACE RACEWAY. NEMA 5-20R RECEPTACLES, SEE PLAN NOTES.
	SPECIAL OUTLET. SEE PLANS.
	MODULAR FURNITURE CONNECTION. PROVIDE DOUBLE-GANG BARRIERED J-BOX FOR POWER & TELE/DATA. EXTEND 1" EC TO ABOVE ACCESSIBLE CEILING FOR TELE/DATA. CONNECT POWER AS INDICATED.
	MOTOR OPERATED DAMPER. INTERLOCK WITH FAN AS INDICATED. (DAMPER BY M.C.)
	GROUNDING BAR PER DIAGRAM.

TELECOMMUNICATIONS

SYMBOL	DESCRIPTION
	STANDARD INFORMATION OUTLET. STANDARD HEIGHT (+18" AFF). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE.
	STANDARD INFORMATION OUTLET. ELEVATED HEIGHT (+42" AFF, UNLESS OTHERWISE NOTED). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE.
	NETWORK OUTLET. STANDARD HEIGHT (+18" AFF). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE.
	NETWORK OUTLET. ELEVATED HEIGHT (+42" AFF, UNLESS OTHERWISE NOTED). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE.
	NETWORK OUTLET. CEILING MOUNTED. ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE.
	NETWORK WALL PHONE OUTLET. ELEVATED HEIGHT (+42" AFF). ELECTRICAL CONTRACTOR SHALL PROVIDE 1-GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE.
	WIRELESS ACCESS POINT CONNECTION (CEILING). WHEN INSTALLED IN HARD/OPEN CEILING, ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. REFER TO WIRELESS ACCESS POINT DETAIL (HARD/OPEN CEILING).
	WIRELESS ACCESS POINT CONNECTION (WALL). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. REFER TO WIRELESS ACCESS POINT DETAIL (WALL).
	WIRELESS ACCESS POINT CONNECTION (EXTERIOR). ELECTRICAL CONTRACTOR SHALL PROVIDE 8"x8"x6" DEEP JUNCTION BOX, 2" SLEEVE TO EXTERIOR AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE.
	DISPLAY CONNECTION WITH NETWORK AND DUPLEX POWER. ELECTRICAL CONTRACTOR SHALL PROVIDE 3-GANG JUNCTION BOX WITH OFFSET 1-GANG TRIM RING FOR LOW VOLTAGE SECTION, LOW VOLTAGE DIVIDER, 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE FOR NETWORK CABLING, 0.75" CONDUIT FOR POWER AND DUPLEX RECEPTACLE. REFER TO DISPLAY DETAIL.
	DISPLAY CONNECTION WITH NETWORK, QUAD POWER AND AV. ELECTRICAL CONTRACTOR SHALL PROVIDE RECESSED AV WALL BOX, 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE FOR NETWORK CABLING, 1.25" CONDUIT WITH PULL STRING TO ASSOCIATED FLOOR BOX/WALL PLATE FOR AV CABLING, 0.75" CONDUIT FOR POWER AND QUAD RECEPTACLE. REFER TO AV DISPLAY DETAIL.
	CONDUIT/SLEEVE. 4" UNLESS OTHERWISE NOTED.
	WIRE MESH CABLE TRAY ABOVE ACCESSIBLE CEILINGS.
	3/4" NON FIRE-RATED PLYWOOD WITH TWO COATS OF FIRE RETARDANT WHITE PAINT ON ALL SIDES. STAMP SHALL BE VISIBLE. MOUNT 4" AFF WITH GRADE A SURFACE EXPOSED.
	TELECOMMUNICATIONS MAIN GROUND BAR.

SYMBOL SCHEDULE

FIRE ALARM

	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR
	FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE BOX AS REQUIRED PER MANUFACTURER RECOMMENDATION. PROVIDE 1" C CONDUIT FOR CABLING.
	FIRE ALARM MANUAL STATION.
	CEILING MOUNTED SMOKE DETECTOR. FA VENDOR PROVIDED.
	CEILING MOUNTED HEAT DETECTOR.
	DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, INSTALLATION OF DETECTOR, AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
	FIRE SMOKE DAMPER. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. SEE DETAIL.
	ADA COMPLIANT WALL MOUNT FIRE ALARM SPEAKER WITH STROBE LIGHT, 75cd UNLESS OTHERWISE NOTED. WHITE FINISH.
	ADA COMPLIANT WALL MOUNT FIRE ALARM STROBE LIGHT, 75cd UNLESS OTHERWISE NOTED. WHITE FINISH.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM SPEAKER STROBE LIGHT, 75cd, UNLESS OTHERWISE NOTED. WHITE FINISH.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT, 75cd, UNLESS OTHERWISE NOTED. WHITE FINISH.
	DUCT DETECTOR REMOTE INDICATING LIGHT.
	DOOR HOLDER
	CEILING MOUNTED CARBON MONOXIDE DETECTOR (CENTRAL SYSTEM CONNECTED) FLUSH MOUNTED AT THE CEILING.

SPECIAL SYSTEMS

	SEE TV DETAILS FOR TYPE AND REQUIREMENTS. COORDINATE HEIGHT WITH ARCHITECT.
	ACCESSIBLE DOOR OPENER PUSH BUTTON. PROVIDE MINIMUM (2) GANG BOX WITH SINGLE GANG OPENING. 3/4" C TO DOOR OPERATOR. COORDINATE WITH EQUIPMENT PROVIDED. SEE DETAIL.
	GENERATOR ANNUNCIATOR LOCATION. VERIFY FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
	CARD READER LOCATION. SEE DETAILS. COORDINATE ALL CONDUIT REQUIREMENTS WITH DOOR HARDWARE SUPPLIER AND OWNER PRIOR TO ROUGH-IN.

PANELS, DISCONNECTS

	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER, WITH OVERLOAD PROTECTION
	NON-FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
	CIRCUIT BREAKER. NUMERALS INDICATE RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
	PANELBOARD. SEE SCHEDULE FOR MOUNTING. TOP OF PANEL AT 6'-6" AFF. CONNECTION TO MOTOR. STARTER PROVIDED BY OTHERS UNLESS OTHERWISE NOTED.

LIGHTING (SEE FIXTURE SCH.)

	LED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
	FLUORESCENT OR LED STRIP FIXTURE.
	LED DOWNLIGHT FIXTURE.
	WALL MOUNTED INCANDESCENT, FLUOR., LED OR H.I.D. LIGHTING FIXTURE.
	LED FIXTURE ON GENERATOR BACKED LIGHTING CIRCUIT. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE, EMERGENCY DEVICE SHALL SUPPLEMENT FIXTURE.
	LED DOWNLIGHT ON GENERATOR BACKED LIGHTING CIRCUIT. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE, EMERGENCY DEVICE SHALL SUPPLEMENT FIXTURE.
	EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES ON GENERATOR BACKED CIRCUIT AS INDICATED ON PLANS. DESIGNATES WALL MOUNTED EXIT SIGN.
	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER AH 1221, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	KEY OPERATED SWITCH
	DOUBLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER 1222, OR EQUAL.
	THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	FOUR WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1224, OR EQUAL.
	WALL MOUNTED OCCUPANCY SENSOR AND SWITCH. INFRARED TECHNOLOGY WITH NEUTRAL, WATT STOPPER HWS-250, OR EQUAL BY SENSOR SWITCH, AND LEVITON.
	DIMMER SWITCH. LUTRON SERIES, OR EQUAL. VERIFY LOAD ON CIRCUIT AND MATCH DIMMER SIZE TO LOAD AND DEVICE QUANTITY. PROVIDE DOUBLE GANG J-BOX WITH SINGLE GANG TRIM PLATE. PROVIDE DIMMING SWITCH AS RECOMMENDED BY LIGHTING MANUFACTURER. MATCH SWITCH TYPE TO SOURCE (LED, FLUORESCENT, OR INCANDESCENT), WATTAGE, AND QUANTITY.
	PHOTO CONTROL, EXTERIOR, MOUNT FACING NORTH.
	LIGHTING CONTROL RELAY PANEL. SEE DETAIL E605.
	CEILING MOUNTED OCCUPANCY SENSOR POWER PACK. SENSOR SWITCH PP-20, WATT STOPPER #BZ-100, COOPER SP-20, OR EQUAL.
	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY. SENSOR SWITCH CM PDT.10, WATT STOPPER #DT-300, COOPER OAC-DT OR EQUAL.
	WALL MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY. SENSOR SWITCH WV-PDT, WATT STOPPER #DT-200, LEVITON, GREENGATE OR EQUAL. CONICAL PATTERN, MOUNT AS CLOSE TO CORNER OF ROOM AS POSSIBLE. MOUNT 10' AFF OR 6' BELOW CEILING IF LOWER THAN GENERATOR EMERGENCY RELAY DEVICE FOR NORMAL LIGHTING CONTROL. SEE DETAIL E605.
	CONNECT TO LOCAL LIFE SAFETY BRANCH LIGHTING CIRCUIT. NORMAL CIRCUIT IS THE SWITCH CONTROL. BASED ON BODINE BLCD-20B, EQUALS BY: LEGRAND, ETC, OR APPROVED EQUAL.
	LIGHTING CONTACTOR WITH TIME CLOCK. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

ELECTRICAL SHEET INDEX

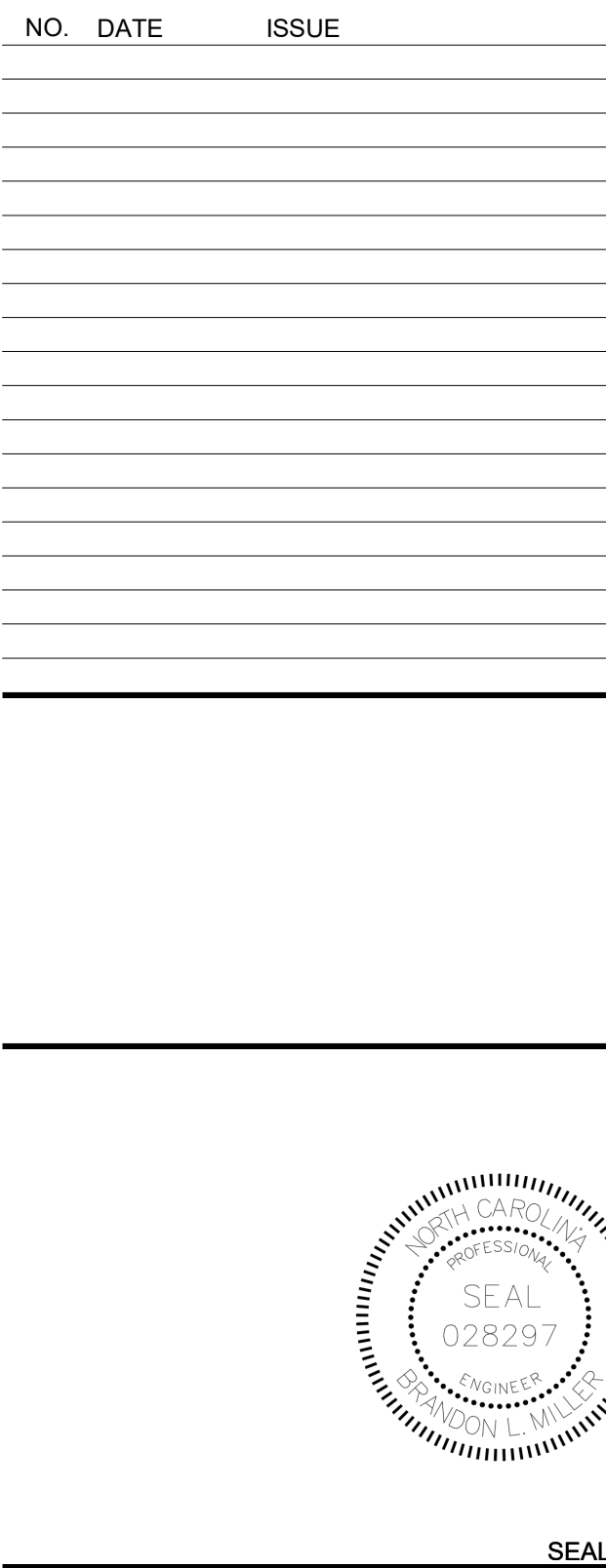
SHEET NUMBER	SHEET NAME
E-001	ELECTRICAL LEGEND AND NOTES
E-010	ELECTRICAL SITE PLAN
E-101	FIRST FLOOR LIGHTING PLAN
E-201	FIRST FLOOR POWER PLANS
E-301	FIRST FLOOR SPECIAL SYSTEMS PLANS
E-302	FIRST FLOOR SECURITY PLAN
E-401	FIRST FLOOR EQUIPMENT CONNECTIONS PLAN
E-409	ROOF EQUIPMENT CONNECTIONS PLAN
E-501	ENLARGED ELECTRICAL PLANS
E-502	ENLARGED ELECTRICAL PLANS
E-503	ENLARGED ELECTRICAL PLANS
E-601	ELECTRICAL DETAILS
E-602	ELECTRICAL DETAILS
E-603	ELECTRICAL DETAILS
E-604	ELECTRICAL DETAILS
E-605	ELECTRICAL DETAILS
E-606	ELECTRICAL DETAILS
E-607	ELECTRICAL DETAILS
E-701	POWER RISER DIAGRAM
E-801	LIGHTING FIXTURE SCHEDULE
E-805	PANEL SCHEDULES

ABBREVIATIONS & ACRONYMS

THIS SCHEDULE IS REPRESENTATIVE OF THOSE TYPICALLY FOUND ON THE PLANS BUT NOT ALL MAY BE UTILIZED

A	AMPERE, AMMETER	KW	KILOWATTS
A/C	ABOVE COUNTER	LC	LIGHTING CONTACTOR
AF	AMPERE FRAME	LED	LIGHT EMITTING DIODE
AFB	ABOVE FINISHED FLOOR	LTG	LIGHTING
AHJ	AUTHORITY HAVING JURISDICTION	MC	MECHANICAL CONTRACTOR
AHU	AIR HANDLING UNIT	MTD	MOUNTED
AIC	AMPERES INTERRUPTING CAPACITY	N	NEUTRAL
AMP	AMPERE	NA	NOT APPLICABLE
AT	AMPERE TRIP	NAC	NOTIFICATION APPLIANCE CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAUGE	NF	NON-FUSED
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CLG	CEILING	NL	NIGHT LIGHT
COMM	COMMUNICATION	NO	NUMBER
CP	CIRCULATING PUMP	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
CR	CARD READER ACCESS	NFPA	NATIONAL FIRE PROTECTION ASSOC.
CU	COPPER	NO	NORMALLY OPEN
DH	DOOR HOLDER	PBC	PLUMBING CONTRACTOR
DISC	DISCONNECT	PROVIDE	FURNISH, INSTALL & CONNECT
DIV	DIVISION	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	REC	RECEPTACLE
EC	ELECTRICAL CONTRACTOR	RGS	RIGID GALVANIZED STEEL
ECB	ENCLOSED CIRCUIT BREAKER	RL	EXISTING ITEM TO BE RELOCATED
EF	EXHAUST FAN	RM	EXISTING ITEM TO REMAIN
ELEC	ELECTRICAL	RP	EXISTING ITEM TO BE REPLACED
EM	EMERGENCY	RV	EXISTING ITEM TO BE REMOVED
EMCS	EMERGENCY MANAGEMENT CONTROL SYSTEM	SE	SERVICE ENTRANCE
EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTION DEVICE
EQP	EQUIPMENT	SPEC	SPECIFICATION
ER	EXISTING ITEM RELOCATED TO HERE	SPST	SINGLE POLE SINGLE THROW
EWC	ELECTRIC WATER COOLER	SS	STAINLESS STEEL
EVH	ELECTRIC WATER HEATER	SQ	SQUARE
EX	EXISTING	SW	SWITCH
FA	FIRE ALARM	SWBD	SWITCHBOARD
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TEL	TELEPHONE
FACP	FIRE ALARM CONTROL PANEL	TTT	TELEPHONE TERMINAL CABINET
FPN	FUSE PER NAMEPLATE	TV	COMBINATION TV & RECEPTACLE OUTLETS
GFI	GROUND FAULT INTERRUPTER	TVTC	TELEVISION TERMINAL CABINET
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
G, GND	GROUND	UG	UNDER GROUND
HD	HAND DRYER	UGC	UNDERGROUND COMMUNICATIONS
HP	HORSEPOWER	UH	UNIT HEATER
HVAC	HEATING, VENTILATING & AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
HZ	HERTZ	V	VOLT
IG	ISOLATED GROUND	W	WIRE
ISC	RMS SYMMETRICAL SHORT CIRCUIT	WG	WIRE GUARD OVER DEVICE
JB	JUNCTION BOX	WP	WEATHERPROOF (WEATHERTIGHT)
KAIC	(THOUSAND) AMPERE INTERRUPTING CAPACITY	XTMR	TRANSFORMER
kcmil	THOUSAND OF CIRCULAR MILS	Y	WYE (CONNECTED)
KVA	KILOVOLT-AMPERES	1PH	SINGLE-POLE
		3P	THREE-PHASE

- SCHEDULE NOTES:**
- SEE DETAIL FOR STANDARD MOUNTING HEIGHTS OF ALL DEVICES, UNLESS OTHERWISE NOTED.
 - ALL DEVICES (SWITCHES AND RECEPTACLES) SHALL BE SELECTED BY ARCHITECT AND EMERGENCY SHALL BE ORANGE. COVER PLATE SHALL BE 302 MATCH BASE BUILDING STANDARD. ALL COVER PLATES IN MASONRY WALLS SHALL BE JUMBO PLATES.
 - DEVICE BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS UNLESS OTHERWISE NOTED.
 - ALL FIRE ALARM SHALL BE IN CONDUIT.
 - ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CONDUIT, WIRE, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED DURING CONSTRUCTION AND ALL COST WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - SHARED NEUTRAL OR "SUPER NEUTRAL" CONDUCTORS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS.
 - STACKED TRANSFORMERS SHALL BE COORDINATED AND INSTALLED PRIOR TO DOOR OPENING OF ELECTRICAL ROOMS.
 - ALL WALL MOUNTED OCCUPANCY/VACANCY SENSOR SWITCH OUTLETS SHALL BE PROVIDED WITH A GROUNDED CONDUCTOR AS PART OF THE WIRING SYSTEM.
 - ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPED CIRCUIT DIRECTORY PER NEC 408.4. SPARE CIRCUIT BREAKERS SHALL BE PLACED IN THE "OFF" POSITION.



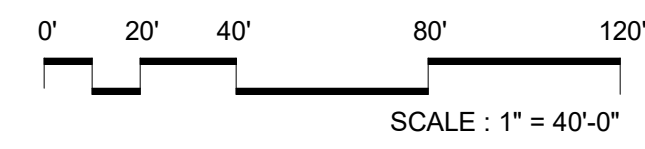
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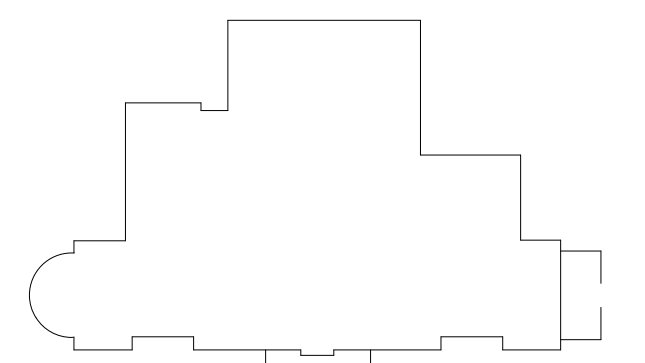
Construction Manager

1. REFER TO CIVIL DRAWINGS FOR EXACT ROUTING OF NEW TELECOMMUNICATIONS DUCTBANK FROM EXISTING TELECOMMUNICATIONS MANHOLE TMH-129 TO NEW CEB BUILDING.
2. REFER TO CIVIL DRAWINGS FOR EXISTING AND NEW PATHWAYS REQUIRED FOR TELECOMMUNICATIONS BACKBONE CABLE TO FRIDAY HALL ANNEX AND CAMERON HALL AS INDICATED ON TC201.

- NOTES:
1. PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
 2. PROVIDE (2)-4" CONDUIT FROM MAIN HEAD END ROOM TO PROPERTY LINE FOR TELEPHONE SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-4" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
 3. PROVIDE (1)-4"CONDUIT FROM MAIN HEAD END ROOM TO PROPERTY LINE FOR CATV SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.
 4. ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 15' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36".
 5. FIRE SERVICE BACKFLOW, PROVIDE 1" CONDUIT TO FACP FOR TAMPER SWITCHES. COORDINATE EXACT QUANTITY AND LOCATION WITH CIVIL PLANS.
 6. DOMESTIC SERVICE BACKFLOW, COORDINATE EXACT LOCATION WITH CIVIL PLANS.
 7. SCHOOL SIGNAGE, COORDINATE EXACT LOCATION WITH CIVIL PLANS.
 8. SITE LIGHTING BY UTILITY
 9. POST INDICATOR VALVE, 3/4" TO FACP. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
 10. REFER TO CIVIL DRAWINGS FOR EXACT ROUTING OF NEW TELECOMMUNICATIONS DUCTBANK FROM EXISTING TELECOMMUNICATIONS HANDHOLE TO NEW DINING HALL.
 11. COORDINATE WITH UNCW AND STUDENT VILLAGE PG GENERAL CONTRACTOR FOR EXACT LOCATION OF EXISTING TELECOMMUNICATION DUCTBANK.



SEAL



KEY PLAN

**PERKINS —
EASTMAN**
520 West Sixth Street
Charlotte, NC 28202
T. +1 704 940 0501
F. +1 704 362 4602

Owner:
UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

Construction Manager:
Construction Manager Name
 Construction Manager Address

Civil / Site:
McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Landscape:
McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Structural:
LHC Structural Engineers
5430 Wade Park Blvd., Suite 400

Mechanical & Plumbing:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: ??-?????-??

PROJECT No: 71193

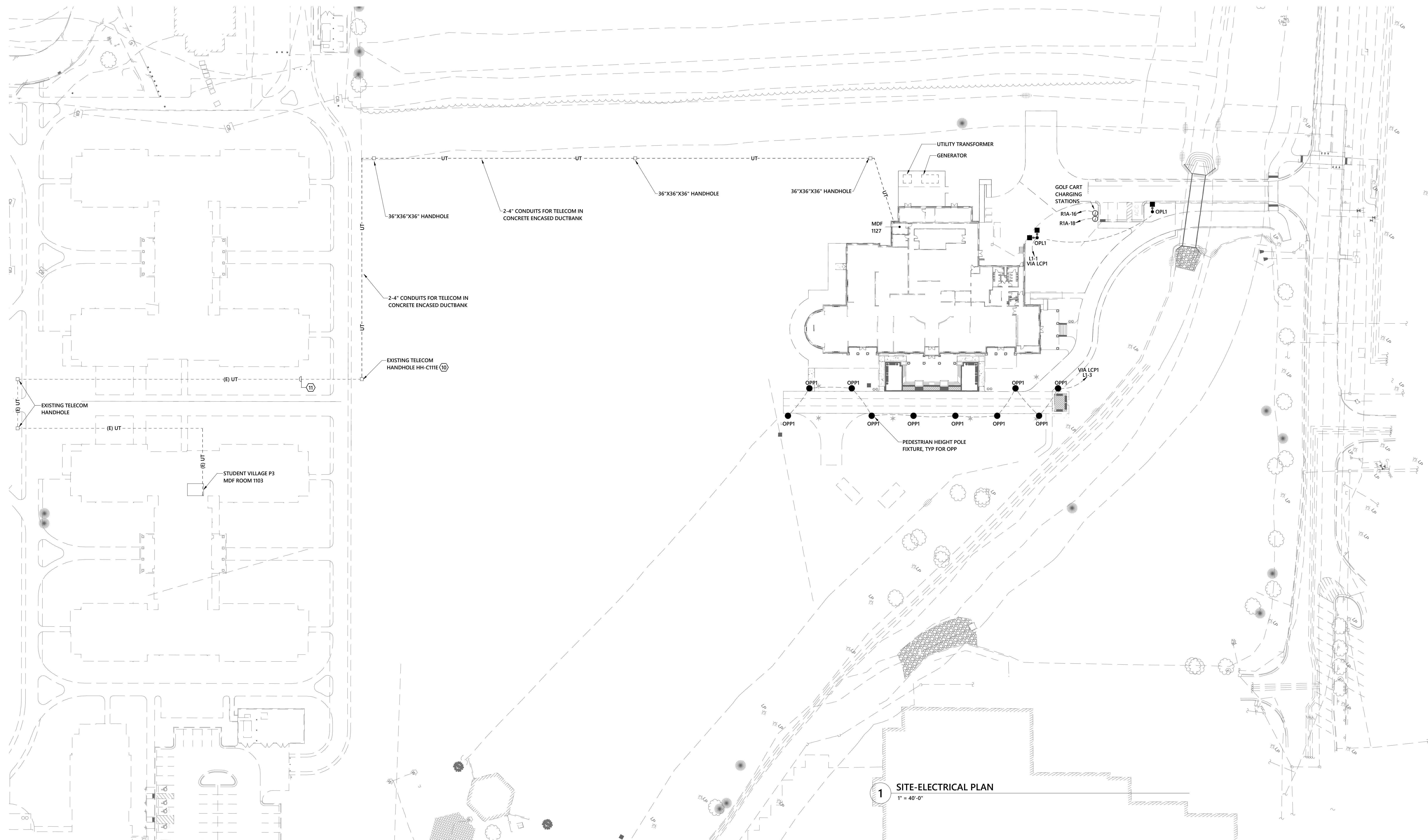
DRAWING TITLE:
**ELECTRICAL SITE
PLAN**

SCALE: 1" = 40'-0"

E-010

SITE PACKAGE

08-05-2020



1 SITE-ELECTRICAL PLAN
1" = 40'-0"

FIRE WALL LEGEND

1-HOUR FIRE WALL
2-HOUR FIRE WALL

General Notes - Lighting

- 01 ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- 02 ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- 03 SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
- 04 REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- 05 WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- 06 MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- 07 CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
- 08 PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- 09 CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH ELECTRICAL EQUIPMENT SCHEDULE.
- 10 ALL EXIT SIGNS ARE TYPE EXIG UNLESS OTHERWISE NOTED ON FLOOR PLANS.
- 11 EXIT SIGN SHALL BE CIRCUITED FROM LOCAL LIFE SAFETY CIRCUIT, UNLESS OTHERWISE NOTED. CIRCUITING SHALL BE AHEAD OF ALL SWITCHING/CONTROL.
- 12 EMERGENCY FIXTURE(S) SHALL BE POWERED VIA GENERATOR EMERGENCY RELAY DEVICE. CONNECT TO EMERGENCY LIGHTING CIRCUIT LS-8. PROVIDE NORMAL CONTROL WIRING TO COMPLETE SWITCHING AS SHOWN.

KEYNOTES

- 1 REFER TO KITCHEN WEST SWITCH BANK DETAIL #3/E-605.
- 2 REFER TO KITCHEN CENTRAL SWITCH BANK DETAIL #3/E-605.
- 3 REFER TO STARBUCKS SWITCH BANK DETAIL #3/E-605.
- 4 REFER TO DINING A EXTERIOR SWITCH BANK DETAIL #3/E605 FOR "LCP" ZONES LOCAL OVERRIDES.
- 5 REFER TO DETAIL #4/E605 FOR LIGHTING CONTROL PANEL DISCUSSION.

1 LEVEL 01 LIGHTING PLAN
1/8" = 1'-0"

NO. DATE ISSUE

0' 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"



SEAL

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Owner:

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Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:

**UNCW SOUTHEAST
DINING FACILITY**

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

**FIRST FLOOR
LIGHTING PLAN**

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

E-101

CD PACKAGE 2 - BUILDING

08-05-2020

FIRE WALL LEGEND

1-HOUR FIRE WALL
2-HOUR FIRE WALL

KEYNOTES

1 CONTRACTOR SHALL INSTALL INTERCONNECTION FROM ADA BUTTON TO LOCK POWER SUPPLY. PROVIDE (1) CAT 6 CABLE FROM OPENER CONTROL PANEL TO POWER SUPPLY PROVIDING LOCK POWER.

NO. DATE ISSUE

0' 4' 8' 16' 24'
SCALE : 1/8" = 1'-0"



SEAL

KEY PLAN

**PERKINS
EASTMAN**

520 West Sixth Street
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515 Washington Street Norwell, MA 02061

PROJECT TITLE:

**UNCW SOUTHEAST
DINING FACILITY**

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

**FIRST FLOOR
POWER PLANS**

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

E-201

CD PACKAGE 2 - BUILDING

08-05-2020

1 LEVEL 01 POWER PLAN
1/8" = 1'-0"

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FIRE WALL LEGEND

1-HOUR FIRE WALL
2-HOUR FIRE WALL

KEYNOTES

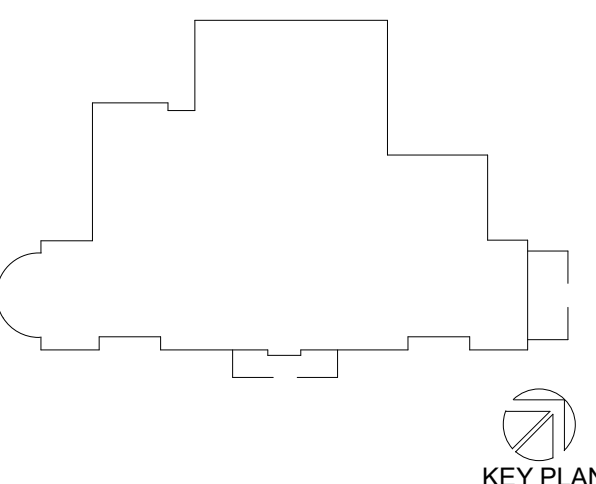
- 1 ELECTRICAL CONTRACTOR SHALL ROUTE CONDUIT IN SLAB TO MDF.
2 SPRINKLER BELL CONNECT TO LOCAL 24V FACP CIRCUIT. ACTIVATED WITH FIRE ALARM SIGNAL OF SPRINKLER SYSTEM WATER FLOW.

NO. DATE ISSUE

0' 4' 8' 16' 24'
SCALE : 1/8" = 1'-0"



SEAL



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Electrical:
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Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:
UNCW SOUTHEAST DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:
**FIRST FLOOR
SPECIAL SYSTEMS
PLANS**

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

E-301

CD PACKAGE 2 - BUILDING

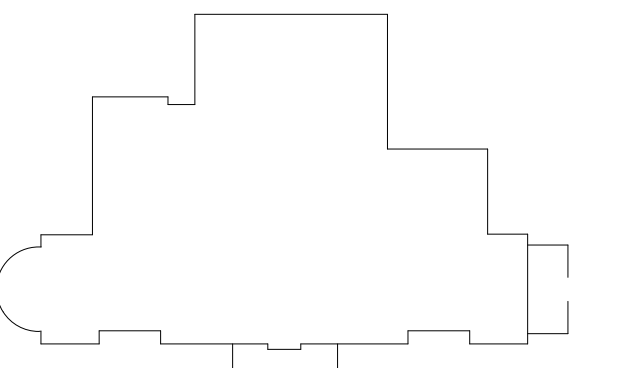
08-05-2020

1 LEVEL 01 SYSTEMS PLAN
1/8" = 1'-0"

1 - HOUR FIRE WALL

2 - HOUR FIRE WALL

NO.	DATE	ISSUE
-----	------	-------

REAL

KEY PLAN

520 West Sixth Street
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PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

FIRST FLOOR
SECURITY PLAN

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

E-302

CD PACKAGE 2 - BUILDING

08-05-2020

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FIRE WALL LEGEND

1-HOUR FIRE WALL
2-HOUR FIRE WALL

KEYNOTES

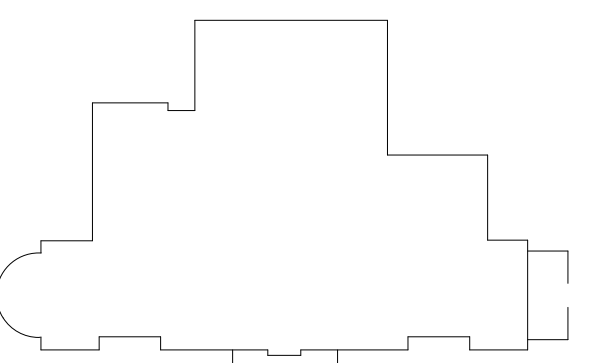
- 1 J-BOX FOR VAV CONTROLS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
2 J-BOX FOR MECHANICAL CONTROLS MOUNT AT STRUCTURE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

NO. DATE ISSUE

0' 4' 8' 16' 24'
SCALE: 1/8" = 1'-0"



SEAL



KEY PLAN

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PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

FIRST FLOOR
EQUIPMENT
CONNECTIONS PLAN

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

E-401

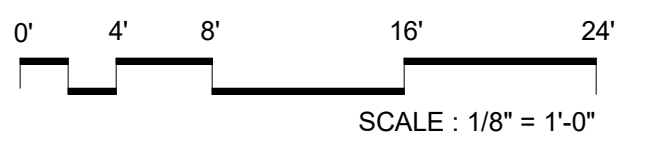
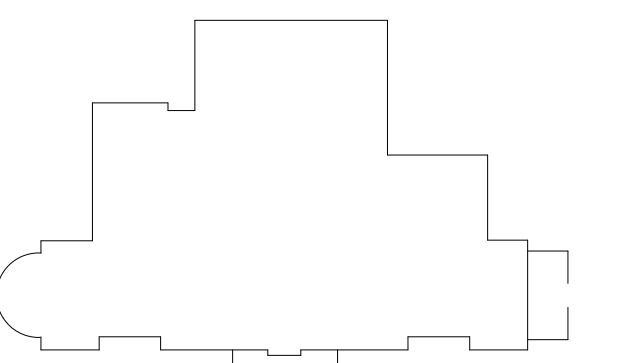
CD PACKAGE 2 - BUILDING

08-05-2020

1 LEVEL 01 EQUIPMENT CONNECTIONS PLAN
1/8" = 1'-0"

1 - HOUR FIRE WALL

2 - HOUR FIRE WALL

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PLAN

**PERKINS —
EASTMAN**

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landscape:
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Electrical:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

ROOF EQUIPMENT CONNECTIONS PLAN

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

E-409

CD PACKAGE 2 - BUILDING

08-05-2020

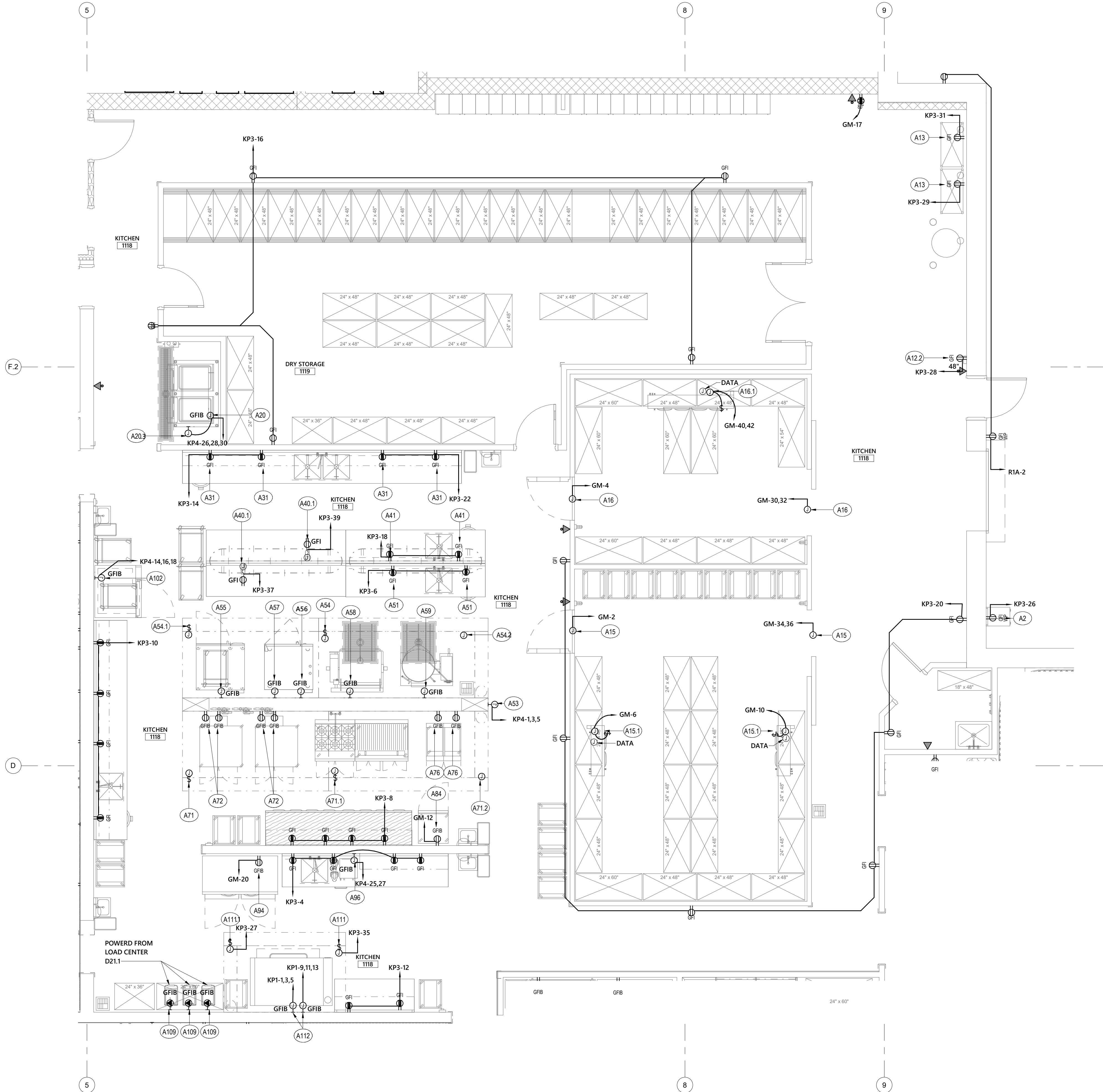
FIRE WALL LEGEND

1 - HOUR FIRE WALL
2 - HOUR FIRE WALL

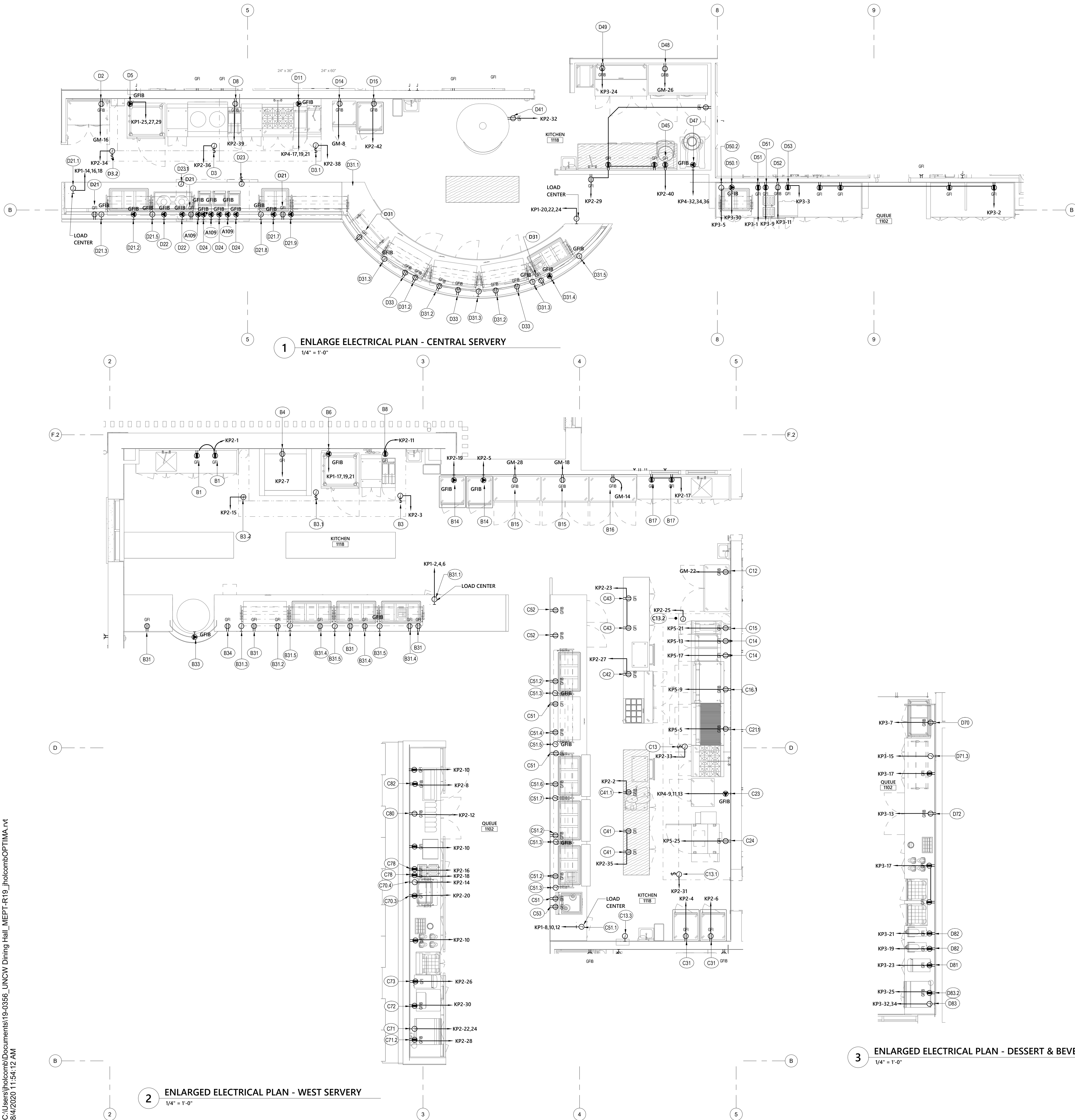
FOODSERVICE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE (A)

EQUIP ID	DESCRIPTION	AMPS	KVA	HP	VOLTS	PHASE	NEMA	MTG. HEIGHT	REMARKS	HOMERUN
A12.2	C02 SAFETY MONITOR	2.50	0.30	-	120	1	5-20P	48"	1,2,3,4,5	SEE FLOOR PLAN
A13	BAG-IN-BOX RACK	-	1.92	-	120	1	-	24"	1,2,3,4,5	SEE FLOOR PLAN
A15	WALK-IN COOLER	-	0.12	-	120	1	J-BOX	-	208V/1PH/0.88KVA FOR SLIDING DOOR	SEE FLOOR PLAN
A15.1	COOLER EVAPORATOR COIL	1.8	0.21	-	120	1	J-BOX	-	1,2,3,4,5	SEE FLOOR PLAN
A16	WALK-IN FREEZER	1	0.12	-	120	1	J-BOX	-	208V/1PH/0.88KVA FOR SLIDING DOOR	TO LOCAL LIGHTING CIRCUIT & SWITCH
A16.1	FREEZER EVAPORATOR COIL	17.7	3.68	-	208	1	J-BOX	-	1,2,3,4,5	SEE FLOOR PLAN
A20	ICE MACHINE	-	4.68	-	208	3	J-BOX	66"	1,2,3,4,5	SEE FLOOR PLAN
A20.3	AUTOMATIC CLEANING SYSTEM	-	-	-	120	1	J-BOX	-	1,2,3,4,5	POWERED FROM A20
A31	WORK TABLE RECEPTACLE	16	-	-	120	1	5-20P	48"	1,4,5	SEE FLOOR PLAN
A40.1	RETRACTABLE DROP CORD	16	1.92	-	120	1	5-20P	48"	1,2,3,4,5	SEE FLOOR PLAN
A41	WORK TABLE RECEPTACLE	-	-	-	120	1	5-20P	48"	1,4,5	SEE FLOOR PLAN
A51	WORK TABLE RECEPTACLE	-	-	-	120	1	5-20P	48"	1,4,5	SEE FLOOR PLAN
A53	UTILITY DISTRIBUTION SYSTEM	-	-	-	208	3	J-BOX	-	6	LOAD CENTER IN EQUIPMENT, 120/208V/3PH, BY ELECTRICAL KITCHEN CONTRACTOR.
A54	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A54.1	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A54.2	FIRE SUPPRESSION SYSTEM	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A55	COMBI OVEN, ROLL IN	198	49.51	-	208	3	J-BOX	24"	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A56	COMBI OVEN	46	16.44	-	208	3	J-BOX	24"	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A57	COMBI OVEN	46	16.44	-	208	3	J-BOX	48"	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A58	TILTING SKILLET	5	0.58	-	120	1	J-BOX	24"	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A59	TILTING KETTLE	5	0.58	-	120	1	J-BOX	24"	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A71	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A71.1	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A71.2	FIRE SUPPRESSION SYSTEM	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A72	CONVECTION OVEN, DOUBLE	16	1.84	-	120	1	-	24" & 48"	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A76	FRYER BATTERY WITH FILTER	9	1.00	-	120	1	5-20P	24"	1,2,3,4,5	POWERED FROM LOAD CENTER A53
A84	FREEZER, REACH IN	4	0.43	-	120	1	-	24"	1,2,3,4,5	SEE FLOOR PLAN
A94	REFRIGERATOR, ROLL IN	12	1.36	-	120	1	-	84"	1,2,3,4,5	SEE FLOOR PLAN
A96	COFFEE BREWER	26	6.10	-	208	1	J-BOX	48"	1,2,3,4,5	SEE FLOOR PLAN
A102	BLAST CHILLER/FREEZER	-	7.02	-	208	3	J-BOX	-	1,2,3,4,5	SEE FLOOR PLAN
A109	WAFFLE MAKER	-	1.6	-	208	1	-	-	1,2,3,4,5,6	POWERED FROM LOAD CENTER D21.1
A111	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	SEE FLOOR PLAN
A111.1	FIRE SUPPRESSION SYSTEM	16	1.92	-	120	1	J-BOX	-	1,2,3,4,5	SEE FLOOR PLAN
A112	DECK OVEN, DOUBLE	39	14.03	-	208	3	-	24" & 48"	1,2,3,4,5,6	SEE FLOOR PLAN

NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AS REQUIRED ALL DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT COMPLETELY. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL CORDS, PLUGS, CABLES, ETC., ON REQUIRING SUCH ITEMS.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED.
3. ALL DISCONNECT SWITCHES, FUSE SIZES, PLUG CONFIGURATIONS, BREAKER SIZES, WIRE SIZES, ETC., SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY BY THE ELECTRICAL CONTRACTOR AND AT CONTRACTOR'S EXPENSE.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND WIRE AND A NEUTRAL, WITH ALL CIRCUITS, WHETHER SO DESIGNATED OR NOT.
5. PROVIDE GFI DEVICE OR GFCI BREAKER. REFER ELECTRICAL ENLARGED FLOOR PLAN FOR DETAILS.
6. CONNECT TO SHUNT TRIP CB.
7. GAS APPLIANCE - CONNECT GAS SOLENOID VALVE TO HOOD SUPPRESSION SYSTEM. SEE DETAIL ON THIS SHEET.



FIRE WALL LEGEND



FOODSERVICE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE (B-D)

EQUIP ID	DESCRIPTION	AMPS	KVA	HP	VOLTS	PHASE	NEMA	MTG HEIGHT	REMARKS	HOMERUN
B1	WORK COUNTER RECEPTACLE	-	-	-	120	1	-	-	1.4.5	SEE FLOOR PLAN
B3	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
B3.1	EXHAUST HOOD	16	1.92	-	120	-	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
B3.2	FIRE SUPPRESSION SYSTEM	16	1.92	-	120	-	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
B4	GRILL	10	1.20	-	120	1	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
B6	COMBI OVEN	68.8	24.8	-	208	3	-	48"	1.2.3.4.5.6	SEE FLOOR PLAN
B8	FRYER WITH FILTER	7.7	0.9	-	120	1	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
B14	HEATED HOLDING CABINET	15	1.8	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
B15	REFRIGERATOR, REACH IN	5.4	0.65	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
B16	FREEZER, REACH IN	9.6	1.1	-	120	1	-	84"	1.2.3.4.5	SEE FLOOR PLAN
B31	SERVING COUNTER RECEPTACLE	-	-	-	120	1	-	24"	1.4.5	POWERED FROM LOAD CENTER B31.1
B31.1	ELECTRIC LOAD CENTER - B	-	-	-	208	3	-	-	-	LOAD CENTER IN EQUIPMENT, 120/208V/3PH, BY ELECTRICAL KITCHEN CONTRACTOR.
B31.2	DROP-IN HEATED SHELF	10.2	1.23	-	120	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER B31.1
B31.3	FOOD SHIELD WITH LIGHT	4.3	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER B31.1
B31.4	COLD PAN, DROP-IN REMOTE	6	0.72	-	120	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER B31.1
B31.5	FOOD SHIELD, WITH LIGHT	0.3	0.03	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER B31.1
B33	TORTILLA GRIDDLE	42	8.74	-	208	1	-	24"	1.2.3.4.5	POWERED FROM LOAD CENTER B31.1
B34	WARMING DRAWER	7.5	0.9	-	120	1	-	24"	1.2.3.4.5	POWERED FROM LOAD CENTER B31.1
C12	REFRIGERATOR/FREEZER	4.6	0.53	-	120	1	5-20P	24"	1.2.3.4.5	SEE FLOOR PLAN
C13	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
C13.1	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
C13.2	FIRE SUPPRESSION SYSTEM	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
C13.3	HOOD COMB	7	0.84	-	120	1	J-BOX	66"	1.2.3.4.5	SEE FLOOR PLAN
C14	FRYER BATTERY WITH FILTER	8.7	1	-	120	1	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
C15	DUMP STATION WITH HEAT LAMP	6.3	0.76	-	120	1	5-20P	24"	1.2.3.4.5.6	SEE FLOOR PLAN
C16.1	REFRIGERATED BASE	5.4	0.62	-	120	1	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
C21.1	REFRIGERATOR EQUIP	5.4	0.62	-	120	1	5-20P	24"	1.2.3.4.5.6	SEE FLOOR PLAN
C23	ROTISSERIE, DOUBLE	22.8	8.20	-	208	3	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
C24	SMOKER	7	0.84	-	120	1	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
C31	HEATED HOLDIN CABINET	15	1.8	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
C41	WORK COUNTER RECEPTACLE	-	-	-	120	1	-	4"	1.4.5	SEE FLOOR PLAN
C41.1	SLICER, FOOD	8	0.96	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
C42	REFRIGERATED PREP TABLE	6.7	0.8	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
C43	WORK COUNTER RECEPTACLE	16	1.92	-	120	1	-	4"	1.4.5	SEE FLOOR PLAN
C51	GRILL COUNTER RECEPTACLE	16	1.92	-	120	1	-	24"	1.4.5	POWERED FROM LOAD CENTER C51.1
C51.1	ELECTRIC LOAD CENTER - C	-	-	-	208	3	-	-	-	LOAD CENTER IN EQUIPMENT, 120/208V/3PH, BY ELECTRICAL KITCHEN CONTRACTOR.
C51.2	HOT/COLD PAN WITH AUTO FILL	16.7	2	-	120	1	-	24"	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C51.3	FOOD SHIELD WITH HEAT & LIGHT	4.3	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C51.4	DROP-IN HEATED SHELF	10.2	1.3	-	120	1	5-20P	-	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C51.5	FOOD SHIELD WITH HEAT & LIGHT	4.3	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C51.6	COLD PAN, DROP-IN REMOTE	6	0.72	-	120	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C51.7	FOOD SHIELD WITH HEAT & LIGHT	0.26	0.03	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C52	HEATED HOLDING CABINET	14.1	1.7	-	120	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C53	CARVING STATION	6.3	0.75	-	120	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER C51.1
C70.3	COLD PAN, DROP-IN REMOTE	3	0.36	-	120	1	5-20P	24"	1.2.3.4.5	SEE FLOOR PLAN
C70.4	FOOD SHIELD WITH LIGHT	0.26	0.03	-	120	1	J-BOX	24"	1.2.3.4.5	SEE FLOOR PLAN
C71	ICE MACHINE	3.2	0.67	-	208	1	J-BOX	66"	1.2.3.4.5	SEE FLOOR PLAN
C71.2	SODA/ICE DISPENSER	3	0.35	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
C72	ICE & WATER DISPENSER	11	1.27	-	120	1	5-20P	48"	1.2.3.4.5	SEE FLOOR PLAN
C73	JUICE DISPENSER	6	0.72	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
C78	TOASTER	15	1.8	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
C80	UC REFRIGERATOR	2.46	0.28	-	120	1	5-20P	24"	1.2.3.4.5	SEE FLOOR PLAN
C82	MILK DISPENSER	1.6	0.18	-	120	-	-	48"	1.2.3.4.5	SEE FLOOR PLAN
D2	REFRIGERATOR	3	0.35	-	120	1	5-20P	24"	1.2.3.4.5.6	SEE FLOOR PLAN
D3	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
D3.1	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
D3.2	FIRE SUPPRESSION SYSTEM	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	SEE FLOOR PLAN
D5	COMBI OVEN	68.8	24.8	-	208	3	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
D8	FRYER WITH FILTER	7.7	0.89	-	120	1	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
D11	PASTA COOKER	35	12.6	-	208	3	-	24"	1.2.3.4.5.6	SEE FLOOR PLAN
D14	REFRIGERATOR	2.2	0.25	-	120	1	-	84"	1.2.3.4.5.6	SEE FLOOR PLAN
D15	HEATED HOLDING CABINET	15	1.8	-	120	1	-	66"	1.2.3.4.5.6	SEE FLOOR PLAN
D21.1	ELECTRIC LOAD CENTER	-	-	-	208	3	-	-	-	LOAD CENTER IN EQUIPMENT, 120/208V/3PH, BY ELECTRICAL KITCHEN CONTRACTOR.
D21.2	HOT/COLD PAN WITH AUTO FILL	16.7	2	-	120	1	L5-30P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D21.3	FOOD SHIELD WITH HEAT & LIGHT	4.3	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D21.5	FOOD SHIELD WITH HEAT & LIGHT	0.26	0.03	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D21.7	HOT/COLD PAN WITH AUTO FILL	16.7	3	-	120	1	L5-30P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D21.8	FOOD SHIELD WITH HEAT & LIGHT	4.3	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D21	COUNTER RECEPTACLE	-	-	-	120	1	5-20P	48"	1.4.5.6	POWERED FROM LOAD CENTER D21.1
D21.9	HOT/COLD PAN WITH AUTO FILL	14.5	3	-	208	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D21.10	FOOD SHIELD WITH HEAT & LIGHT	4.3	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D22	RICE COOKER	-	2.24	-	208	1	-	24"	1.2.3.4.5.6	POWERED FROM LOAD CENTER D21.1
D23	EXHAUST HOOD	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D23.1	FIRE SUPPRESSION SYSTEM	16	1.92	-	120	1	J-BOX	-	1.2.3.4.5	POWERED FROM LOAD CENTER D21.1
D24	INDUCTION COOKER	14	5.04	-	208	3	-	24"	1.2.3.4.5.6	POWERED FROM LOAD CENTER D21.1
D31	COUNTER RECEPTACLE	-	-	-	120	1	5-20P	48"	1.4.5	POWERED FROM LOAD CENTER D31.1
D31.1	ELECTRIC LOAD CENTER	-	-	-	208	3	-	-	-	LOAD CENTER IN EQUIPMENT, 120/208V/3PH, BY ELECTRICAL KITCHEN CONTRACTOR.
D31.2	DROP-IN HEATED SHELF	10.2	1.23	-	120	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D31.1
D31.3	FOOD SHIELD WITH HEAT & LIGHT	-	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D31.1
D31.4	HOT/COLD PAN WITH AUTO FILL	16.7	2	-	120	1	L5-30P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D31.1
D31.5	FOOD SHIELD WITH HEAT & LIGHT	4.3	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D31.1
D33	HEATED HOLDING CABINET	14.1	1.7	-	120	1	5-20P	24"	1.2.3.4.5	POWERED FROM LOAD CENTER D31.1
D41	HEARTH OVEN	12	1.44	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
D45	DOUGH PRESS	-	1.2	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
D47	MIXER, 60-QT.	10	3.60	-	208	3	-	24"	1.2.3.4.5	SEE FLOOR PLAN
D48	REFRIGERATOR, ROLL IN	11.8	-	-	120	1	-	84"	1.2.3.4.5	SEE FLOOR PLAN
D49	REFRIGERATOR PREP TABLE	13	1.96	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
D50.1	HOT/COLD PAN WITH AUTO FILL	16.7	3	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
D50.2	FOOD SHIELD WITH LIGHT	-	0.52	-	120	1	J-BOX	24"	1.2.3.4.5	SEE FLOOR PLAN
D51	TOASTER	-	1.8	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
D52	REFRIGERATOR, UNDERCOUNTER	2.46	0.3	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
D53	MICROWAVE	16	2	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
D70	NOVELTY ICE CREAM CHEST	3.5	0.42	-	120	1	-	24"	1.2.3.4.5	SEE FLOOR PLAN
D71.3	FOOD SHIELD WITH HEAT & LIGHT	0.05	0.01	-	120	1	J-BOX	24"	1.2.3.4.5	SEE FLOOR PLAN
D72	UC REFRIGERATOR	2.5	0.28	-	120	1	L5-20P	24"	1.2.3.4.5	SEE FLOOR PLAN
D81	JUICE DISPENSER	6	0.72	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
D82	TEA BREWER	14.4	1.73	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN
D83.2	SODA/ICE DISPENSER	3	0.35	-	120	1	-	48"	1.2.3.4.5	SEE FLOOR PLAN

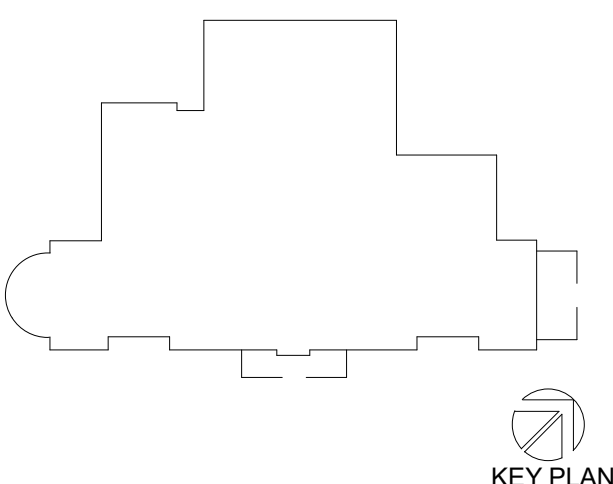
NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AS REQUIRED ALL DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT COMPLETELY. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL CORDS, PLUGS, CABLES, ETC., ON REQUIRING SUCH ITEMS.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED.
3. ALL DISCONNECT SWITCHES, FUSE SIZES, PLUG CONFIGURATIONS, BREAKER SIZES, WIRE SIZES, ETC., SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY BY THE ELECTRICAL CONTRACTOR AND AT CONTRACTOR'S EXPENSE.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND WIRE AND A NEUTRAL WITH ALL CIRCUITS, WHETHER SO DESIGNATED OR NOT.
5. PROVIDE GFI DEVICE OR GFCI BREAKER. REFER ELECTRICAL ENLARGED FLOOR PLAN FOR DETAILS.
6. CONNECT TO SHUNT TRIP CB.
7. GAS APPLIANCE - CONNECT GAS SOLENOID VALVE TO HOOD SUPPRESSION SYSTEM. SEE DETAIL ON THIS SHEET.

NO. DATE ISSUE

0' 4' 8' 16' 24'
SCALE : 1/8" = 1'-0"



SEAL



KEY PLAN

PERKINS EASTMAN
520 West Sixth Street
Charlotte, NC 28202
T +1 704 540 0501
F +1 704 362 4602

Owner:

UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

Construction Manager:

Construction Manager Name
Construction Manager Address

Civil / Site:

McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Landscape:

McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Structural:

LHC Structural Engineers
5430 Wade Park Blvd., Suite 400

Mechanical & Plumbing:

Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:

Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Food Service:

Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:

UNCW SOUTHEAST DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

ENLARGED ELECTRICAL PLANS

SCALE: As indicated

E-502

CD PACKAGE 2 - BUILDING

08-05-2020

1

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Mechanical & Plumbing:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 0206

PROJECT TITLE:

**UNCW SOUTHEAST
DINING FACILITY**

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

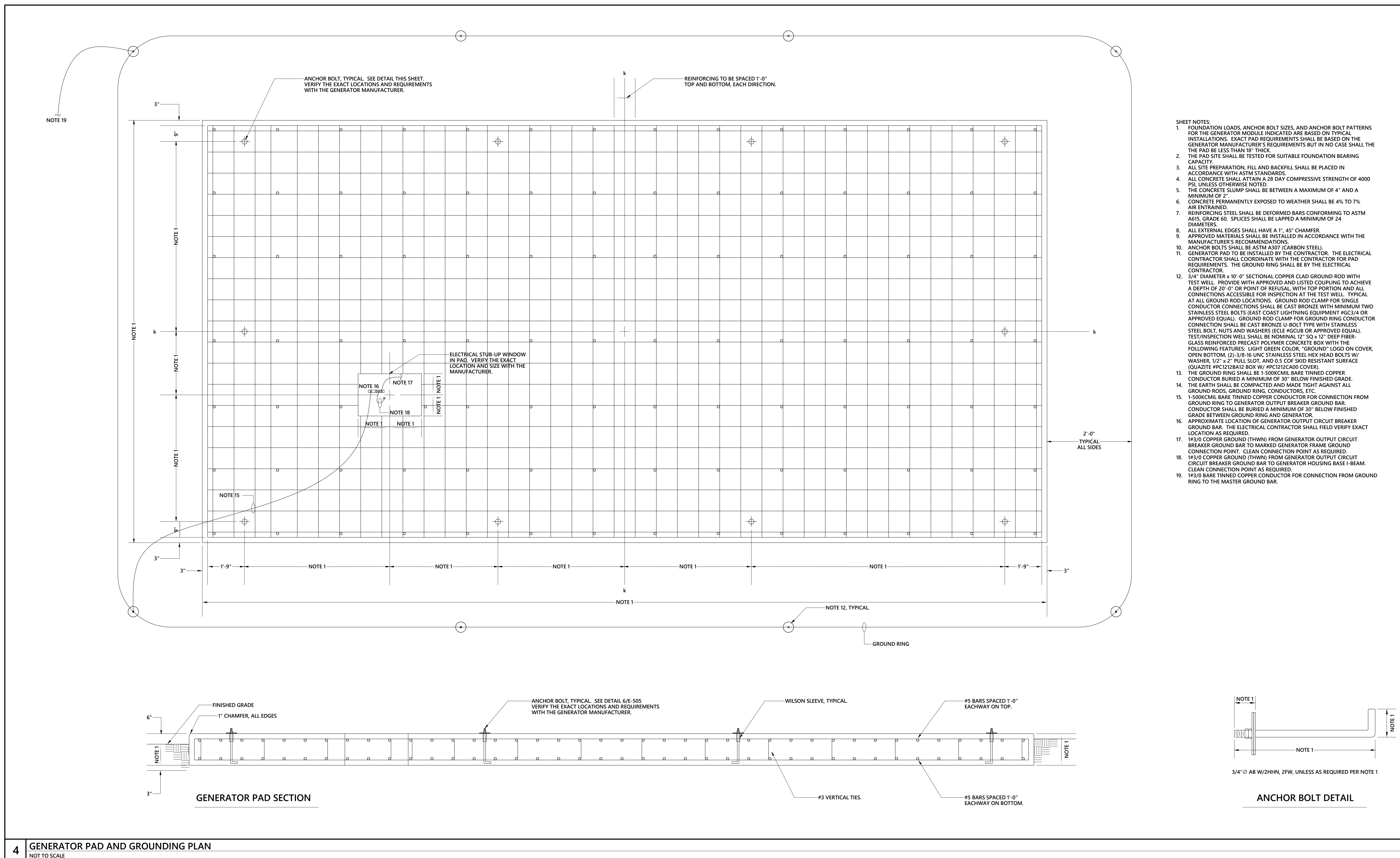
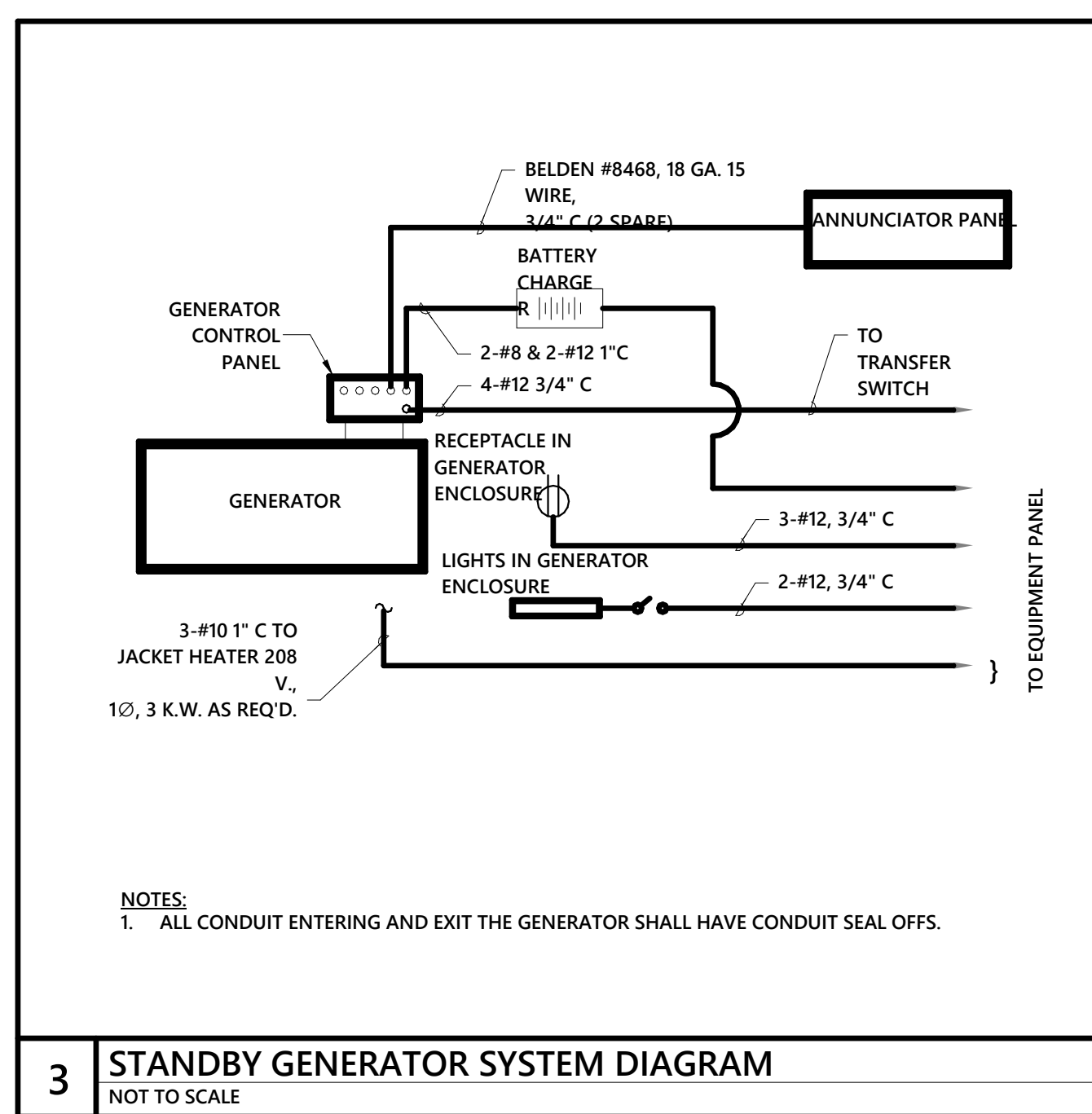
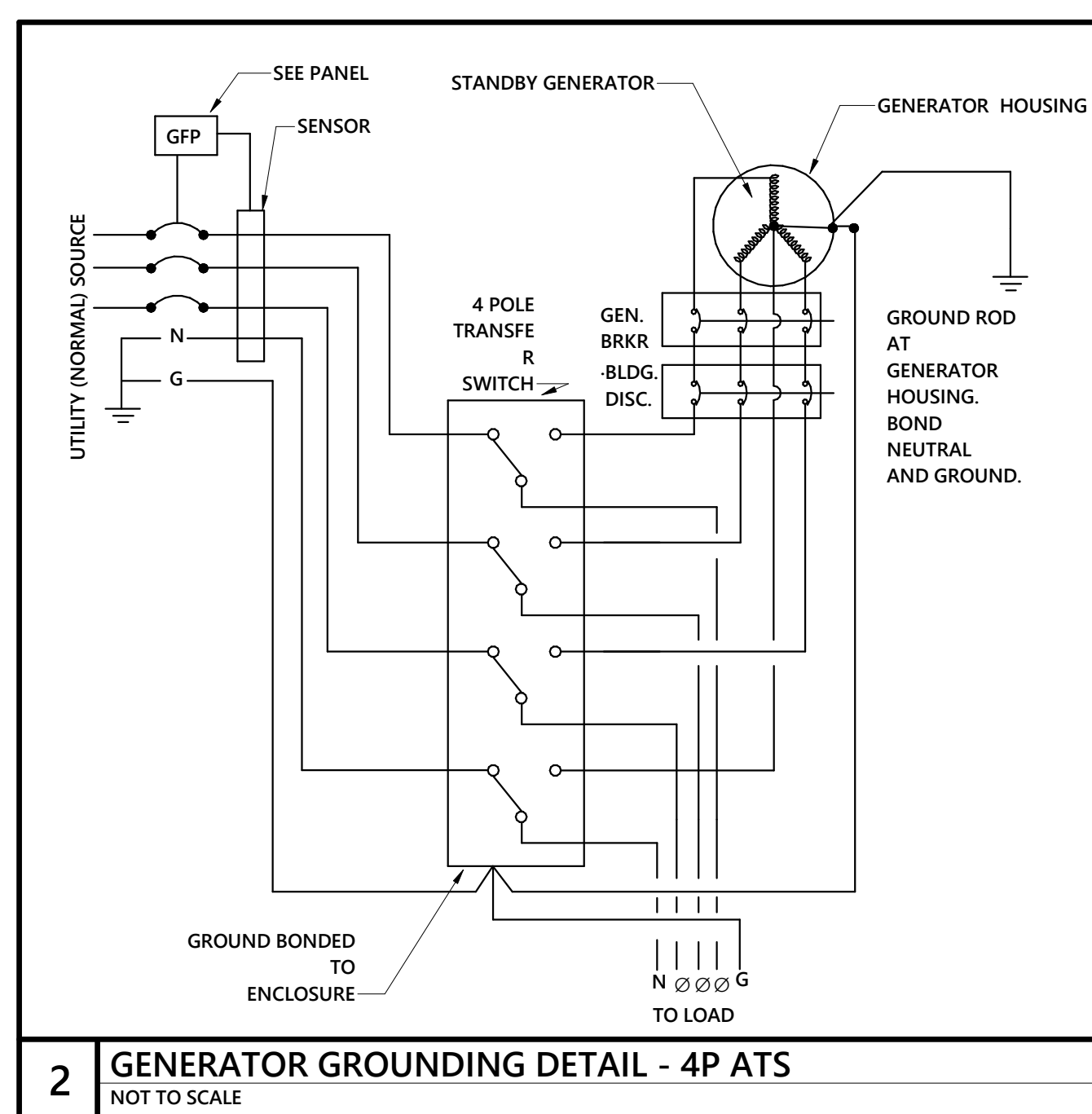
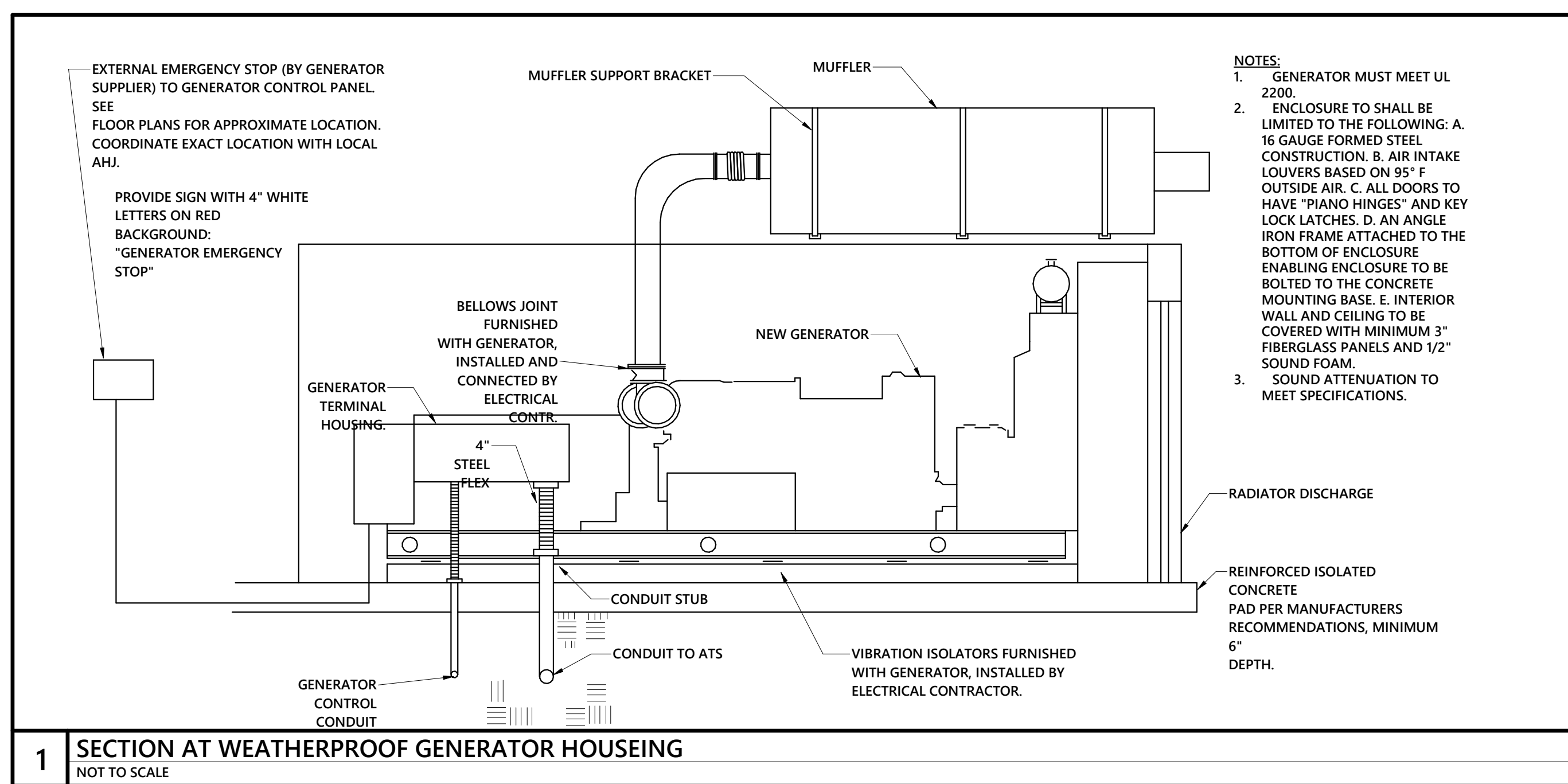
DRAWING TITLE:

**ELECTRICAL
DETAILS**

SCALE: As indicated

E-601

CD PACKAGE 2 - BUILDING08-05-2020

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SE

KEY PLA

**PERKINS—
EASTMAN**

520 West Sixth St.
Charlotte, NC 28201
T. +1 704 940 0500
F. +1 704 382 4600

Owner

UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

Construction Manager

Construction Manager Name
Construction Manager Address

Civil / Site

McAdams
One Glenwood Ave., Suite 201, Raleigh, NC 27603

Landscap

McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Structural

LHC Structural Engineers
5430 Wade Park Blvd., Suite 40

Mechanical & Plumbing:

Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:

Optima Engineering
1927 S. Tryon St. Suite 300 Charlotte, NC 28203

Food Service

Ricca Design Studios
515 Washington Street Norwell, MA 0206

PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE

ELECTRICAL DETAILS

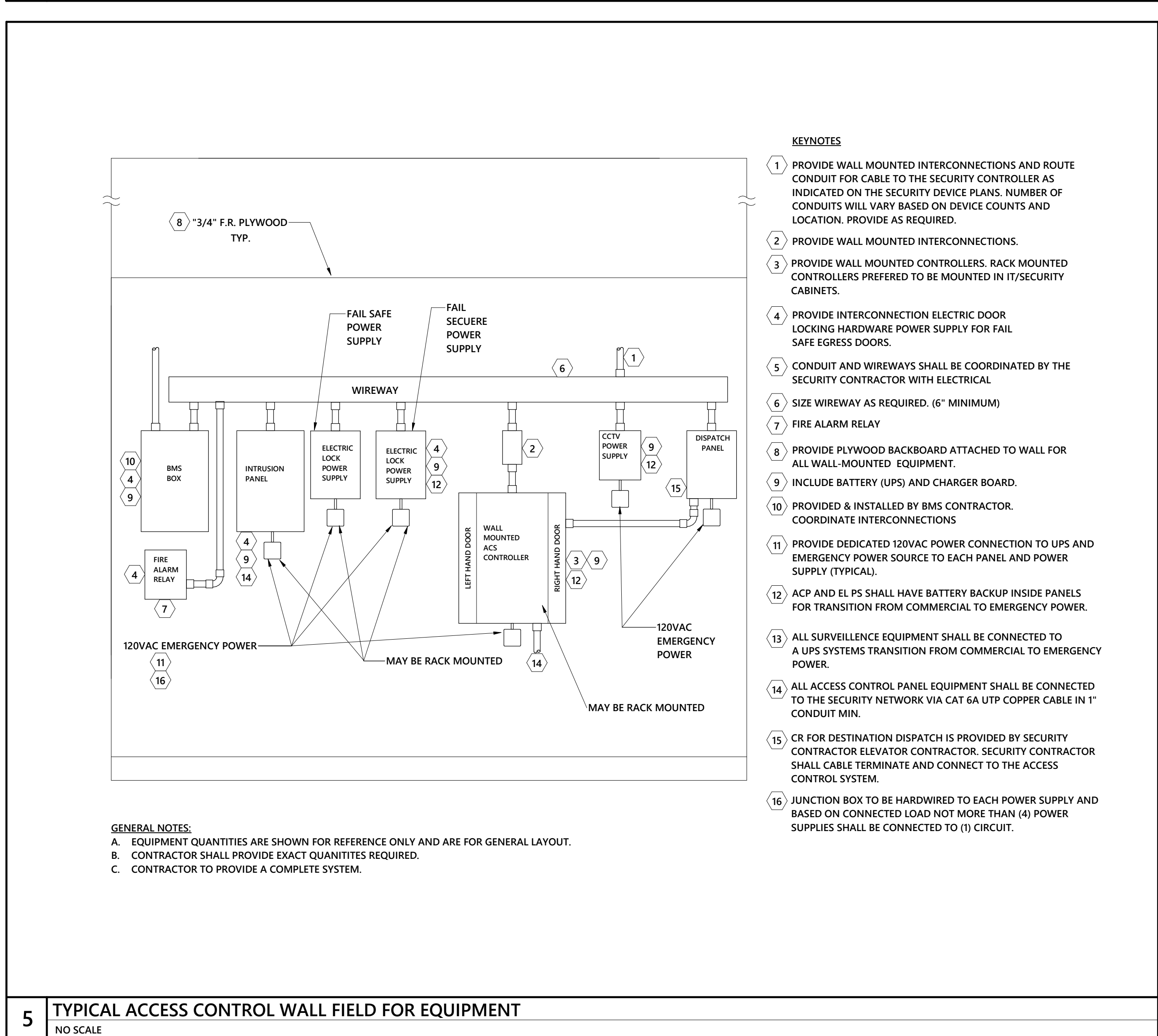
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E-602

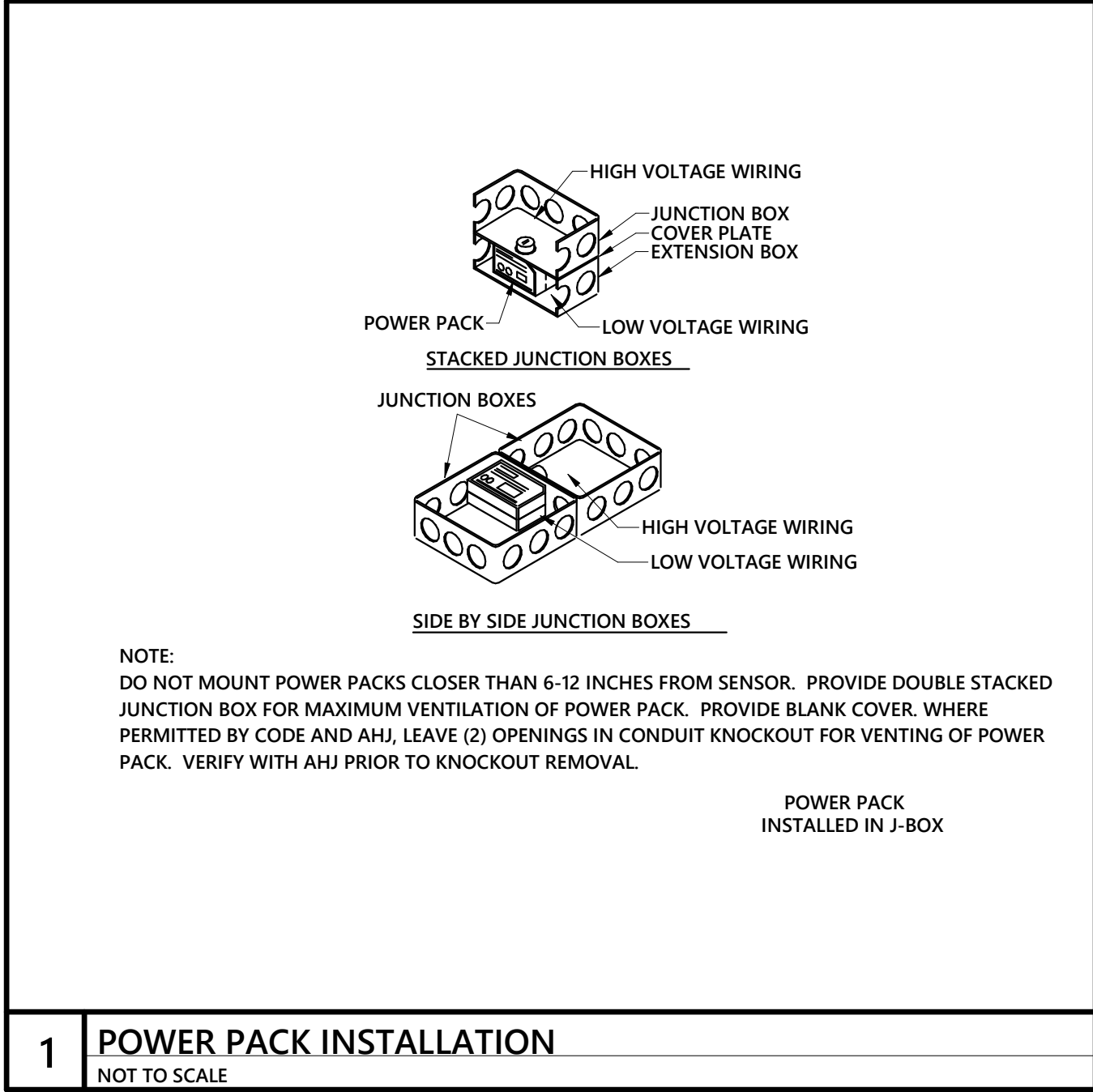
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08-05-2020

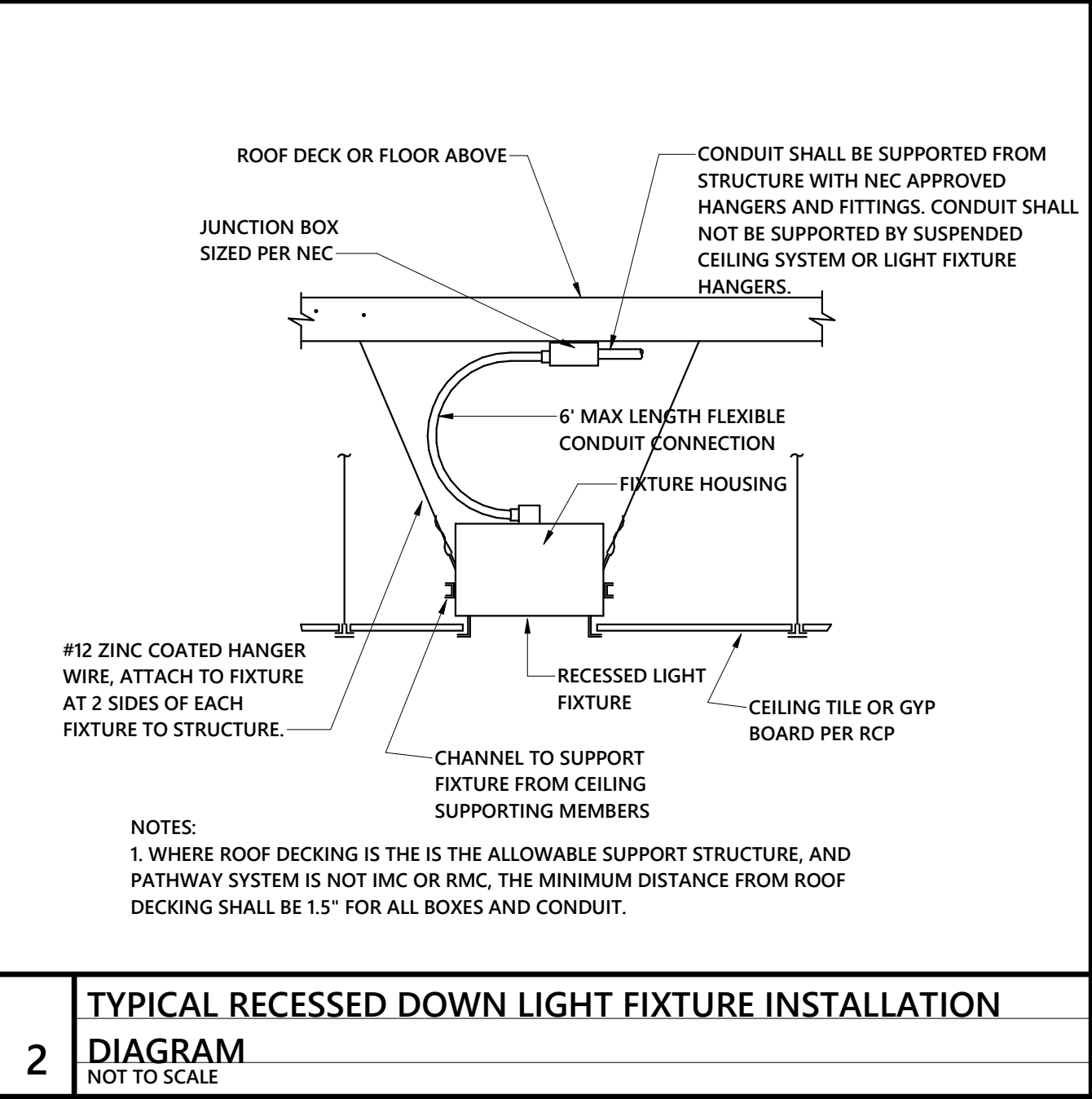
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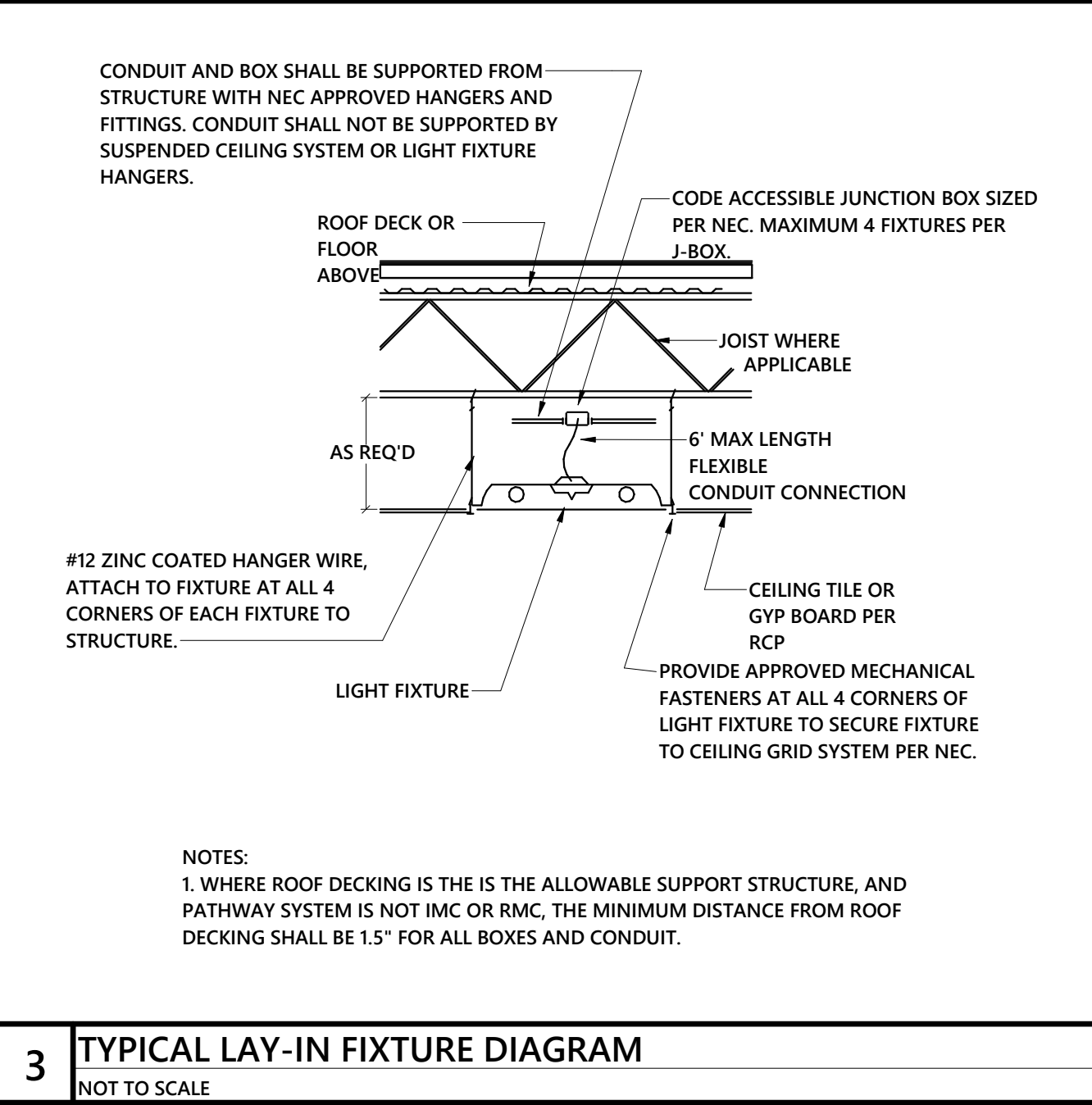
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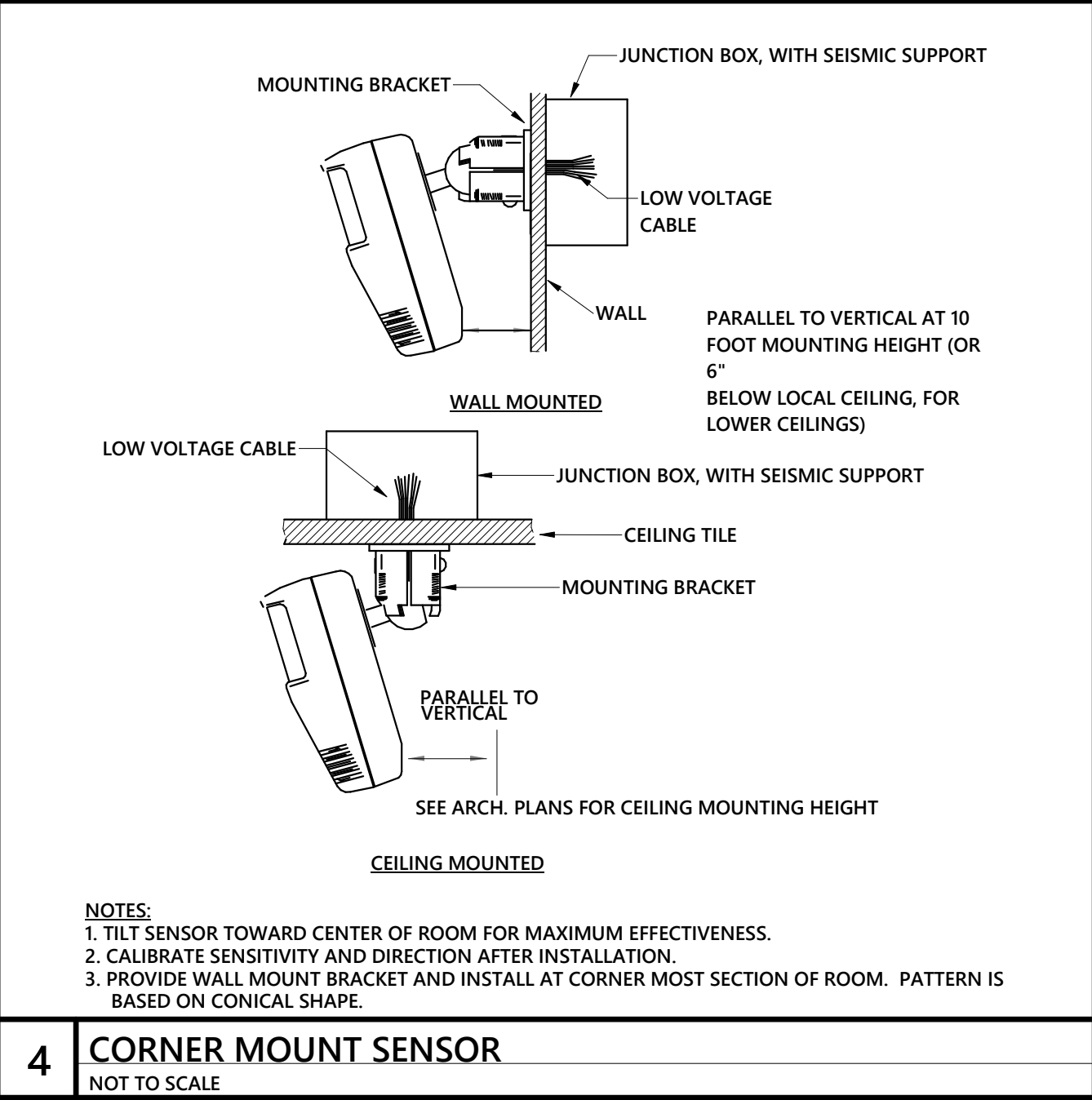
1 POWER PACK INSTALLATION
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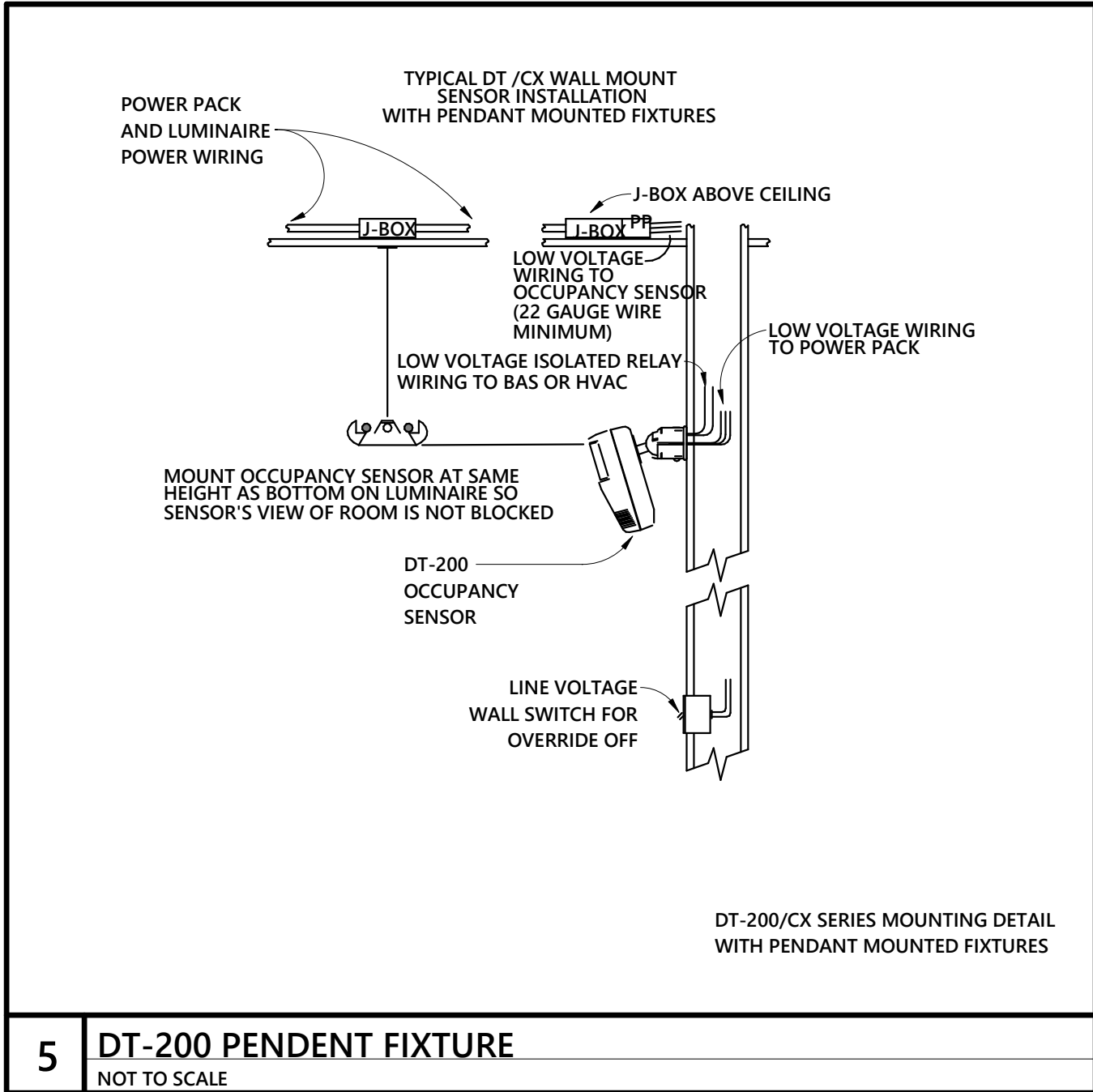
2 TYPICAL RECESSED DOWN LIGHT FIXTURE INSTALLATION
DIAGRAM
NOT TO SCALE



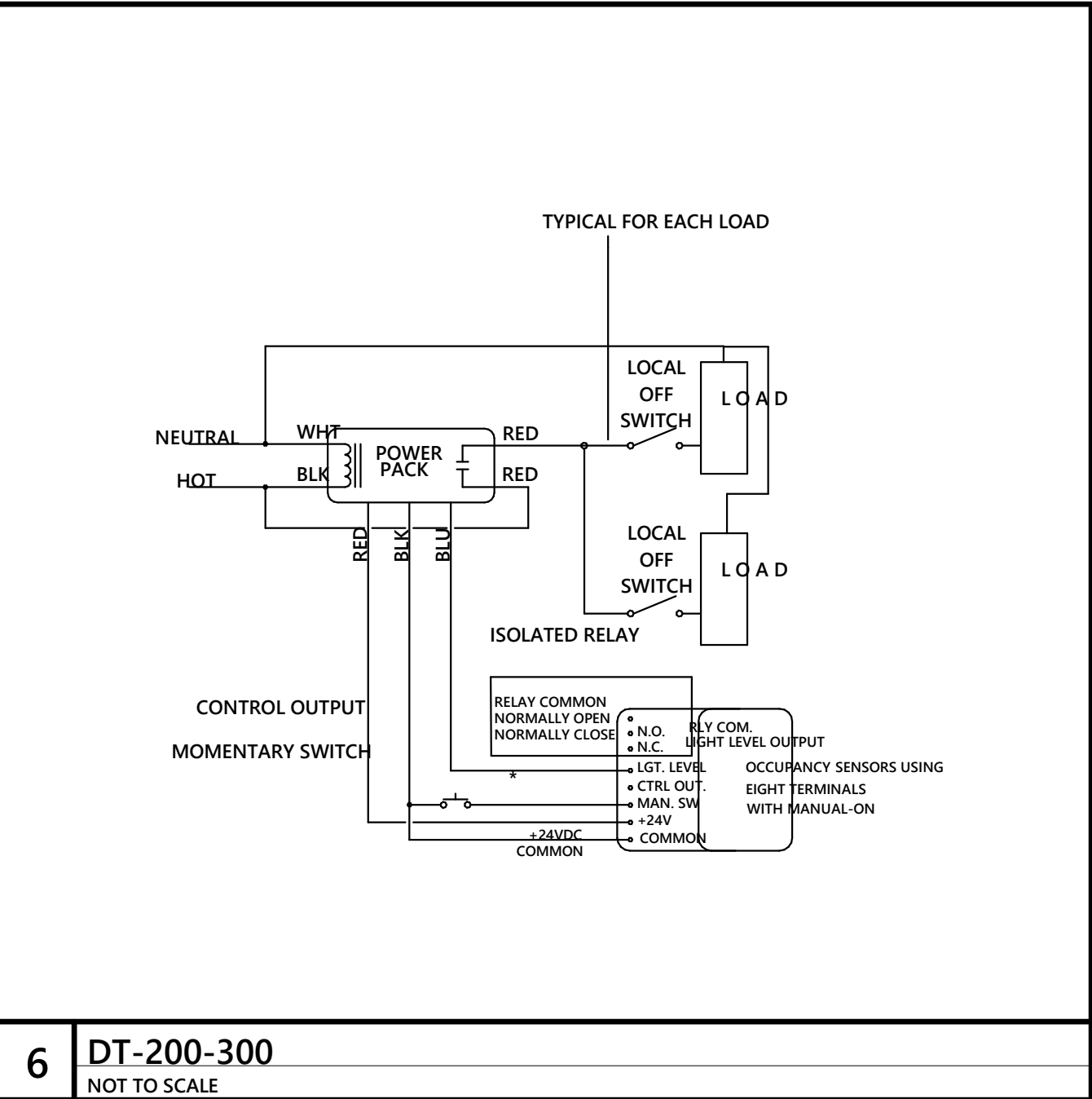
3 TYPICAL LAY-IN FIXTURE DIAGRAM
NOT TO SCALE



4 CORNER MOUNT SENSOR
NOT TO SCALE



5 DT-200 PENDENT FIXTURE
NOT TO SCALE



6 DT-200-300
NOT TO SCALE



SEAL

OWNER
UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

CONSTRUCTION MANAGER
McAdams
One Glenwood Ave., Suite 201, Raleigh, NC 27603

LANDSCAPE
McAdams
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STRUCTURAL
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MECHANICAL & PLUMBING
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

ELECTRICAL
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

FOOD SERVICE
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:
UNCW SOUTHEAST DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:
ELECTRICAL DETAILS

SCALE: 1/2" = 1'-0"

E-604

CD PACKAGE 2 - BUILDING

08-05-2020



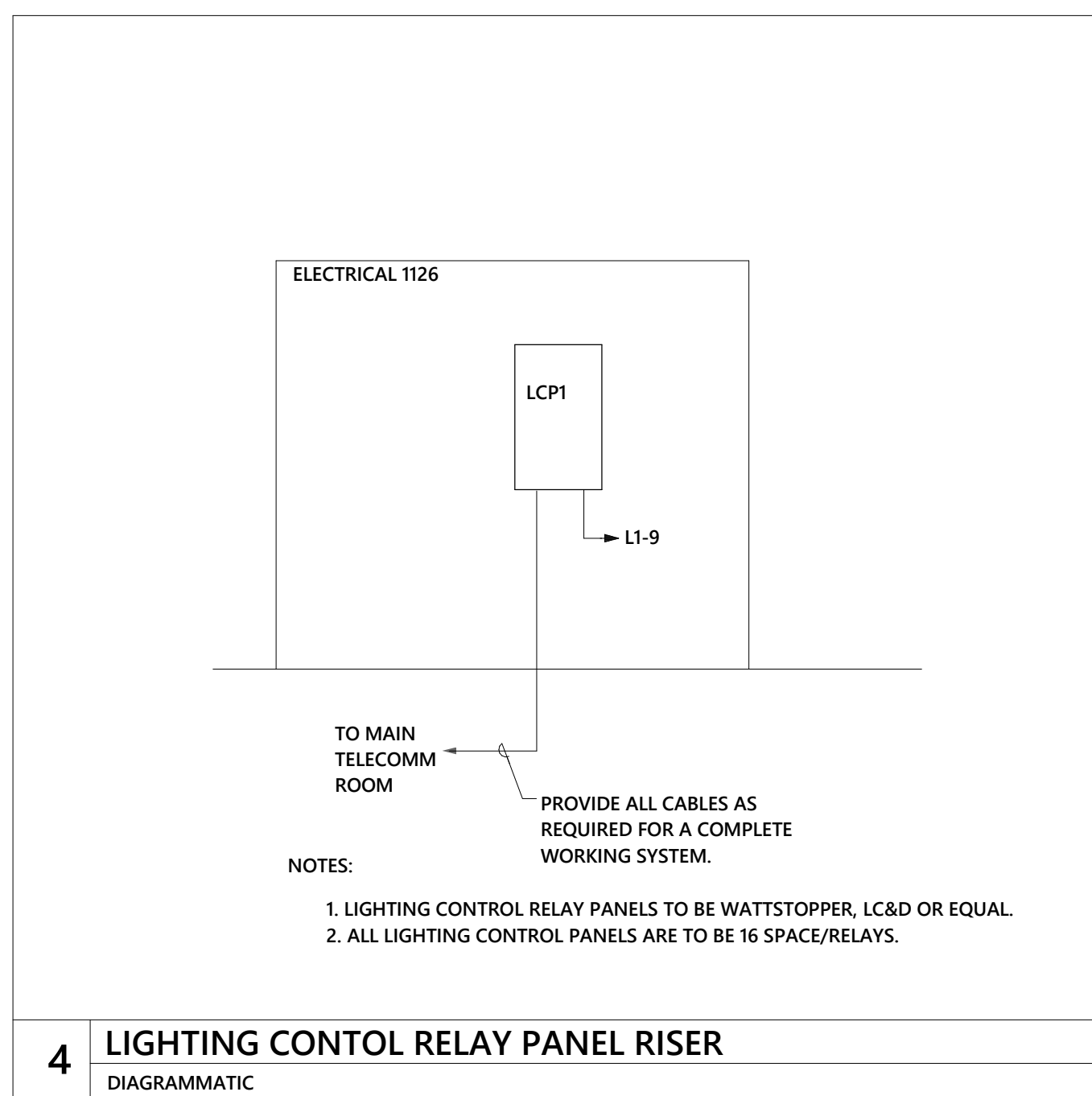
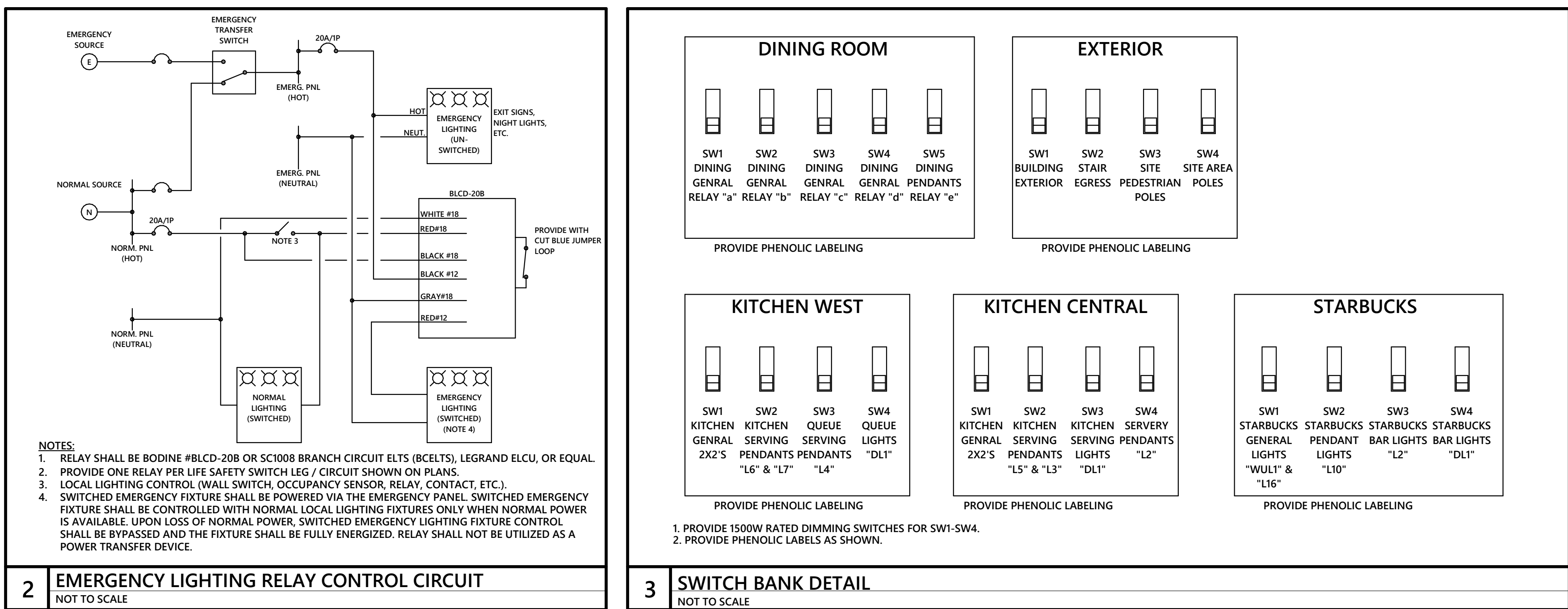
Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

UNCW SOUTHEAST
DINING FACILITY

ELECTRICAL
DETAILS

E-605

08-05-2020



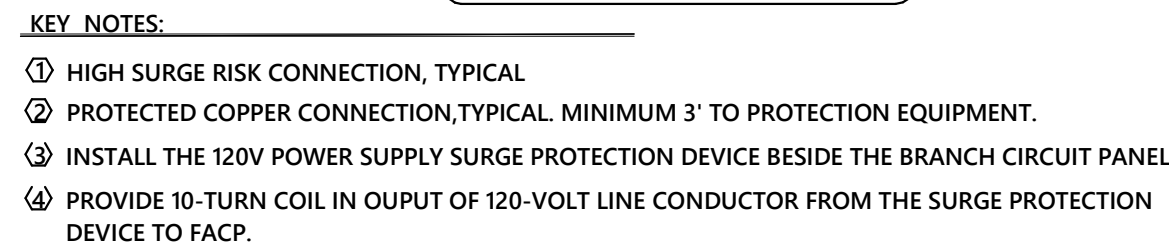
LCP1 SCHEDULE						
	RELAY #	LIGHTING CIRCUIT PANEL DESIGNATION	VOLTAGE/PHASE	FUNCTION	LAMP TYPE	NOTES
LIGHTING - DINING GENERAL WALL	a	LS-4	120/1	ON/OFF	LED	1
LIGHTING - DINING GENERAL WALL	b	LS-6	120/1	ON/OFF	LED	1
LIGHTING - DINING GENERAL WALL	c	LS-9	120/1	ON/OFF	LED	1
LIGHTING - DINING GENERAL WALL	d	LS-11	120/1	ON/OFF	LED	1
LIGHTING - DINING PENDANTS	e	L1-7	120/1	ON/OFF	LED	1
LIGHTING - BUILDING EXTERIOR	f	LS-7	120/1	SEE NOTE	LED	1 & 2
LIGHTING - STAIR EGRESS	g	LS-2	120/1	SEE NOTE	LED	1 & 2
LIGHTING - SITE PEDESTRIAN POLES	h	L1-3	120/1	SEE NOTE	LED	1 & 2
LIGHTING - SITE AREA POLES	i	L1-1	120/1	SEE NOTE	LED	1 & 2
SPARE	j					
SPARE	k					
SPARE	l					
SPARE	m					
SPARE	n					
SPARE	o					
SPARE	p					

REMARKS:

1. SEE DETAIL #7/605.
2. WHEN LCP HAS BEEN DE-ENERGIZED, RELAYS SHALL FAIL TO THE CLOSED POSITION.
3. PROVIDE BARRIERS FOR LIFE SAFETY AND NORMAL CIRCUITS.
4. WHERE PROVIDED WITH EMERGENCY RELAYS, CONTACTOR SHALL CONTROL RELAY FOR SWITCH POSITION. NORMAL CIRCUIT IS ALSO FOR VOLTAGE SENSING ON THE GENERATOR RELAY.

KEY NOTES:

1. PROGRAM NORMAL ON/OFF, COORDINATE AUTOMATED TIME SCHEDULE WITH OWNER.
2. PHOTOCELL ON / ASTRONOMICAL CLOCK OFF. COORDINATE AUTOMATED TIME SCHEDULE WITH OWNER.
3. RELAY/RELAYS IS USED AS NIGHT LIGHTS. COORDINATE AUTOMATED TIME SCHEDULE WITH OWNER.



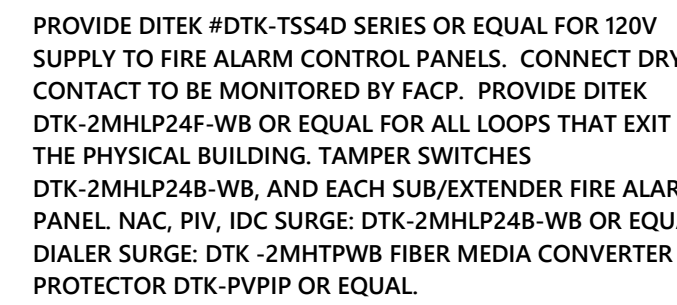
1



1. NOTES:
2. SYSTEM IS BASED ON 800MHz. COORDINATE WITH LOCAL EMERGENCY RESPONDERS FOR NECESSARY FREQUENCY REQUIRED
3. SEE SPECIFICATIONS FOR ALL EQUIPMENT AND CABLING REQUIREMENTS
4. ALL CABLEING TO BE INSTALLED IN 1/2" CONDUIT.
5. SYSTEM BASED ON DESIGN FROM HARRIS COMMUNICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS AND EQUALS.
6. PROVIDE BATTERY BACKUP (6 MIN.) FOR MINIMUM LOSS OF POWER. MAIN SYSTEM IS GENERATOR BACKED UP. NON GENERATOR BACKED UP SYSTEMS SHALL HAVE A MINIMUM BATTERY BACKUP OF 24 HOURS.
7. SEE SPECIFICATIONS FOR CABLEING REQUIREMENTS.
8. SYSTEM SURVEY SHALL BE DONE PRIOR TO PROVIDING THE SYSTEM. THIS SHALL BE CONSIDERED BASE BID FOR THE PROJECT. SIGNAL SURVEY REPORT SHALL BE TAKEN TO THE LOCAL FIRE CODE OFFICIAL AND THE LOCAL FIRE CODE OFFICIAL SHALL DETERMINE IF THE SYSTEM NEEDS TO BE INSTALLED. SIGNAL STRENGTH MEASUREMENTS SHALL BE OBTAINED IN EACH LOCATION IN EACH FLOOR 100% OF THE LOSS OF CRITICAL AREAS. A MINIMUM SIGNAL STRENGTH OF -95dbm IS REQUIRED.
9. PROVIDE A DEDICATED ALTERNATE FOR THE EMERGENCY RESPONDER SYSTEM INCLUDING ALL DEVICES, CABLING, CONDUIT, AND ANTENNA. SIGNAL SURVEY REPORT SHALL BE CONSIDERED BASE BID.
10. SEE PLANS FOR MINIMUM LOCATIONS. BASED ON SURVEY REPORT, DEVICES SHALL BE LOCATED TO MAXIMIZE BOOSTING SIGNAL STRENGTH. LOCATIONS SHALL BE COORDINATED WITH GENERAL CONTRACTOR.
11. LOCAL ANNUNCIATOR SHALL PROVIDE VISUAL AND LABELED IDENTIFICATION OF:
 - A. NORMAL AC POWER.
 - B. SIGNAL BOOSTER TROUBLE
 - C. LOSS OF NORMAL AC POWER.
 - D. FAILURE OF BATTERY CHARGER.
 - E. LOW-BATTERY CAPACITY.
 - F. ANTENNA FAILURE.
12. PROVIDE FIRE ALARM PANEL CONNECTION (SUPERVISORY SIGNALS). COORDINATE REQUIRED CONNECTIONS WITH FIRE ALARM CONTRACTOR.
13. DONOR ANTENNA MALFUNCTION.
14. BDA FAILURE.
15. LOW BATTERY CAPACITY.
16. LOSS OF NORMAL AC POWER.
17. FAILURE OF BATTERY CHARGER.



3



2. FACP SHALL HAVE A MINIMUM 60HR. BATTERY BACKUP.
3. FACP SHALL BE FULLY ANULOG ADDRESSABLE.
3. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.
4. ZONE PER NFPA 72-2013 AND MANUFACTURER'S RECOMMENDATIONS WITH NO ONE ZONE EXCEEDING 15,000 S.F. PER FLOOR.
5. COORDINATE QUANTITY AND LOCATIONS OF DEVICES WITH CONTRACT DRAWINGS.
6. LOCATE SMOKE DETECTOR WITHIN 5' OF THE MAGNETIC HOLD OPEN DOORS. (TYPICAL)
7. LOCATE FIRE ALARM PULL STATION WITHIN 5' OF THE EXIT DOOR.
8. LOCATE SMOKE/HEAT DETECTOR WITHIN 5' OF THE FA EQUIPMENT (FACP, FACP).
9. LOCATION OF CEILING MOUNTED SMOKE/HEAT DETECTOR SHALL BE FIELD COORDINATED PRIOR TO ROUGH IN. THE DETECTOR SHALL BE A MINIMUM OF 2' AWAY FROM LIGHT FIXTURE AND A MINIMUM OF 18" FROM THE CEILING.
10. AUTOMATIC DOOR CLOSING SHALL BE ACCOMPLISHED BY THE ACTIVATION OF THE LOCAL SMOKE DETECTORS AT THAT DOOR. SMOKE DETECTOR ACTIVATION SHALL ALERT THE BUILDING FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM SHALL CAUSE ALL HOLD OPEN DOORS TO CLOSE UPON ALARM ACTIVATION OF THE BUILDING.
11. ACTIVATION OF AN ALARM ZONE SHALL CAUSE ALL AIR HANDLING EQUIPMENT TO SHUT DOWN (ALL DAMPERS, AIR HANDLERS AND EXHAUST FANS MUST STOP).
12. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL FLOW, PRESSURE, & TAMPER SWITCHES WITH FIRE PROTECTION CONTRACTOR PRIOR TO INSTALLATION.
13. ALL VISUAL DEVICES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED. IT SHALL BE A THREE BEAT TEMPORAL PATTERN.
14. PROVIDE 120V/240V JUNCTION BOX AT FACP
15. PROVIDE VOICE EVACUATION SOUNDING CAPABILITY AT ALL AUDIO DEVICES FOR EMERGENCY NOTIFICATION.
16. THE FIRE ALARM SYSTEM MANUFACTURER SHALL PROVIDE NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER EXTENDERS AS REQUIRED. PROVIDE 120V CIRCUITS FROM SPARE BREAKERS IN PANEL LE AS REQUIRED.
17. THE DUCT SMOKE DETECTORS SHALL COMPLY WITH IFC 907.12 .3
18. PROVIDE CONTACT ON FURGE SUPPRESSION THAT IS MONITORED BY THE FIRE ALARM. "C" CONDUIT TO BAS PANEL & BAS CONTROLLER
19. THE CIRCUIT FEEDING THE FIRE ALARM PANEL IS DEDICATED FOR THE FIRE ALARM ONLY
20. PROVIDE REMOTE LIGHT WITH TEST SWITCH FOR DUCT SMOKE DETECTOR ON CEILING WHERE UNIT IS ABOVE CEILING
21. PROVIDE 120V SHALL INCLUDE IN BID LABOR TO RE-LOCATE UP TO 5 DEVICES UP TO 30' FROM EXISTING LOCATION.
22. CONTRACTOR SHALL INCLUDE IN BID LABOR AND MATERIAL FOR UP TO (2) DUCT DETECTORS. (5) ANNUNCIATION DEVICES, (3) SMOKE DETECTORS AND (2) PULL STATIONS 100' FROM LOCAL PANEL (IN BASE OF EACH SURFACE MOUNTED) AND (2) LOCAL PANELS
23. CONTRACTOR RESPONSIBLE FOR SHOP DRAWINGS AS REQUIRED BY LOCAL AHJ.
24. DUCT DETECTORS SHALL BE VERIFIED WITH THE MECHANICAL DRAWINGS FOR QUANTITY AND LOCATION. TOTAL QUANTITY MINIMUM SHALL BE BASED ON BOTH MECHANICAL SCHEDULES AND MECHANICAL CONTRACT SCHEDULES AND ELECTRICAL SCHEDULES (ELECTRICAL VS. MECHANICAL) AND IN CONFLICT, PROVIDE THE GREATER QUANTITY OF DETECTORS.
25. A SUPERVISED "AHJ SHUTDOWN DEFEAT" SWITCH MUST BE PROVIDED (IN/ADJACENT TO THE FACP. PROVIDE AN INFORMATIVE ENGRAVED LABEL AT THE FACP ABOUT THIS FUNCTION. THE SWITCH MUST BE Labeled "SHUT DOWN SMOKE DETECTOR" AND BE LOCATED IN THE OFF-NORMAL ("SHUTDOWN DEFEATED") POSITION. THIS IS TO PROVIDE THE OWNER WITH A CONVENIENT MEANS TO TEMPORARILY RESUME HVAC OPERATION IN THE EVENT AN UNWANTED ALARM WILL NOT CLEAR, PRIOR TO ARRIVAL OF THE FIRE ALARM SERVICE TECHNICIAN.
26. THE DUCT DETECTOR SHALL BE PROVIDED FOR EVERY 20 INITIATION DEVICES AND CONTROL POINTS, OR A LESSER NUMBER WHERE RECOMMENDED BY THE MANUFACTURER. LOOP ISOLATION MODULES FOR FACP SHALL BE MOUNTED IN NEMA 1 ENCLOSURE, DIRECTLY ADJACENT.
27. PROVIDE FIRE PUMP MONITORING AS REQUIRED PER NFPA 72. FIRE ALARM PANEL IS TO MONITOR PUMP STATUS. LOSS OF PHASE OR PHASE SEQUENCE SHALL BE MONITORED TO ALTERNATE POWER SOURCE PER NFPA 20. 28. PROVIDE GENERATOR MONITORING AS REQUIRED PER NFPA 72.

4

FIRE ALARM SYSTEM MATRIX	BUILDING SYSTEM OUTPUTS	CENTRAL COMM
	ACTIVATE COMMON ALARM SIGNAL INDICATOR ACTIVATE BUILDING ALARM SIGNAL ACTIVATE AUDIBLE SUPERVISOR SIGNAL INDICATOR ACTIVATE AUDIBLE TROUBLE SIGNAL INDICATOR DISTRIB CHANGE GENERAL PROBABLE SIGNAL TRANSMIT FIRE LINE SIGNAL TO TRULS TRANSMIT FIRE LINE SIGNAL TO CENTRAL STATION REQUIRE ELEVATOR SIGNAL TO CENTRAL STATION SHUT DOWN ELEVATOR TO ALTERNATE FLOOR SHUT DOWN RESPECTIVE WAC SHORT CHANGING OF STATUS ON ANNUNCIATOR FOR TRANSFER SUPPLY SIGNAL TO CENTRAL STATION TRANSFER TROUBLE SIGNAL TO CENTRAL STATION	
MANUAL FIRE ALARM PULL BOXES	X X	X X X X X
BUILDINGS SMOKE DETECTOR	X X	X X X X
DUCT SMOKE DETECTOR	X X	X X
SPRINKLER WATER FLOW	X X	X X X X
SPRINKLER TAMPER	X X	X X
ELEV. EQ. ROOM SMOKE DETECTOR	X X	X X X X
ELEV. EQ. ROOM HEAT DETECTOR	X X	X X X X
ELEV. SHAFT HEAT DETECTOR	X X	X X X X
ELEV. SHAFT SMOKE DETECTOR	X X	X X X X
1ST FLOOR ELEV. LOBBY SMOKE DET.	X X	X X X X
UPPER FLR. ELEV. LOBBY SMOKE DET.	X X	X X X X
HOOD SUPPRESSION SYSTEM	X X	X X X X
NOTIFICATION DEVICE SHORT CIRCUIT		X X X X
OPEN CIRCUIT		X X X X
GROUND FAULT		X X X X
FIRE ALARM A.C. POWER FAILURE		X X X X
FIRE ALARM SYSTEM LOW BATTERY		X X X X
GENERATOR NFPA 110 ALARM ACTIVE	X X	
GENERATOR FUEL LEVEL	X X	
FIRE PUMP RUNNING	X X	X
FIRE PUMP COMMON TROUBLE	X X	X
FIRE PUMP POWER FAILURE/PHASE REVER.	X X	X

[illegible]

SEAL

KEY PLAN

**PERKINS —
EASTMAN**
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515 Washington Street Norwell, MA 02061

PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

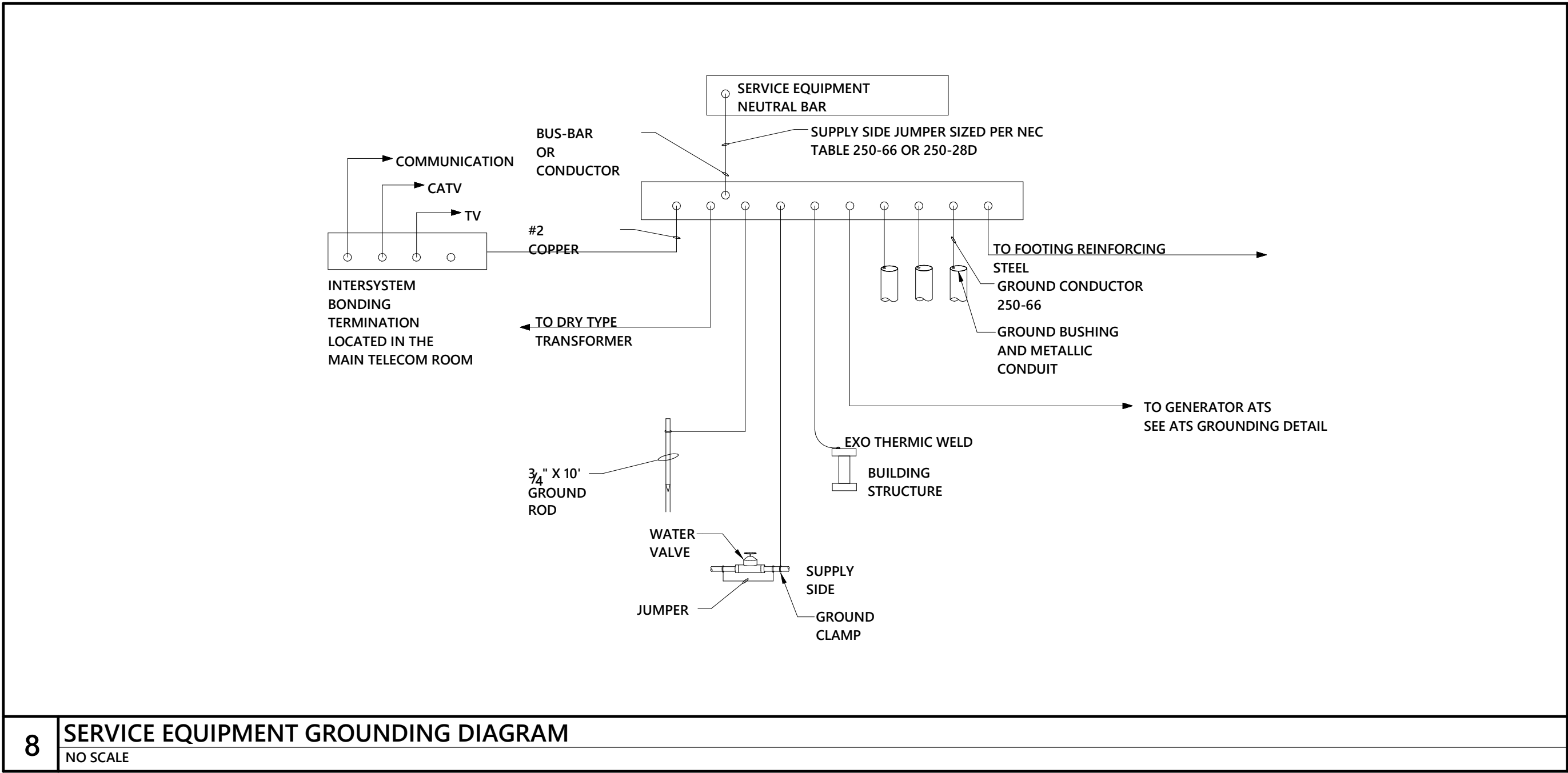
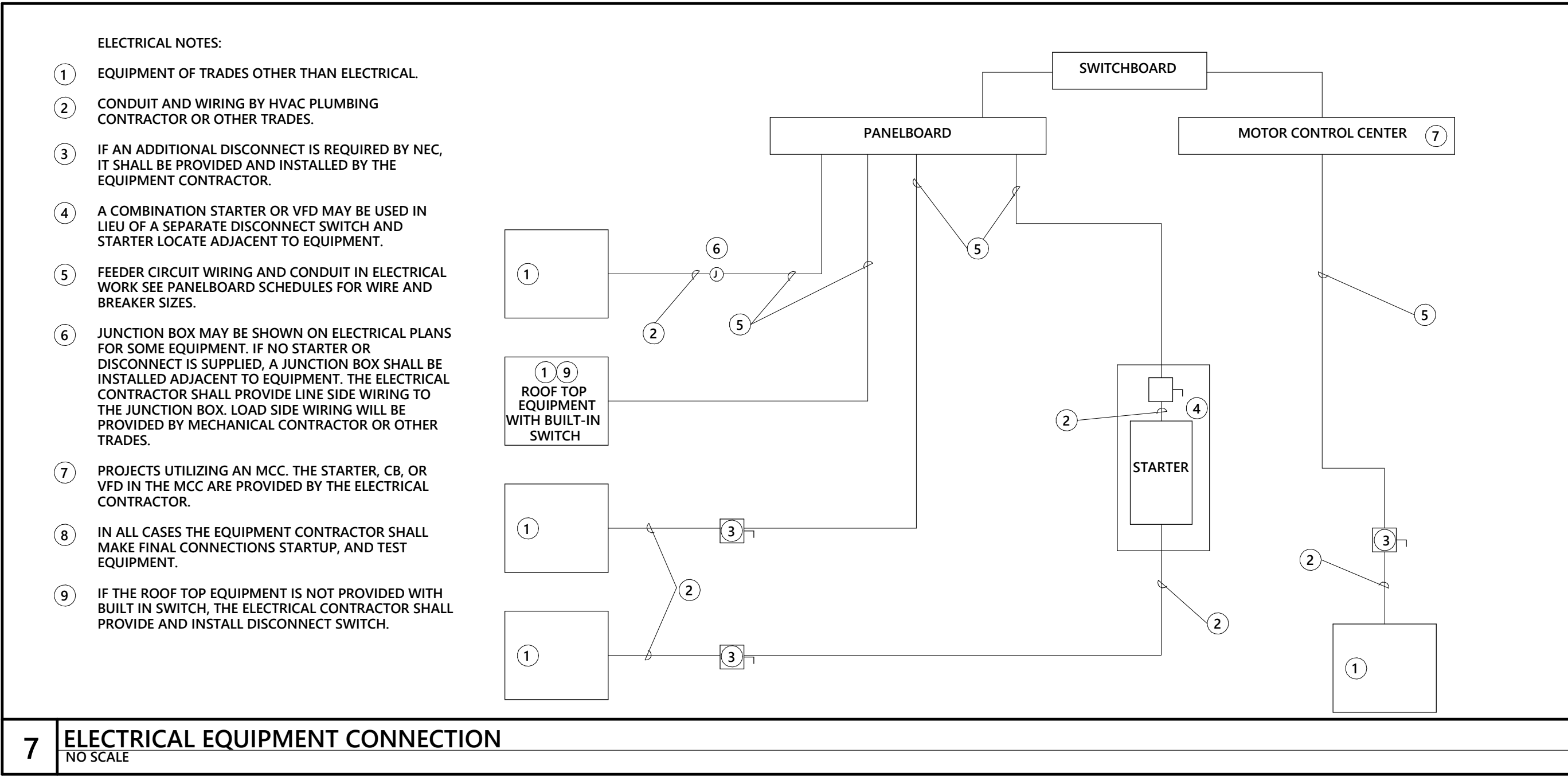
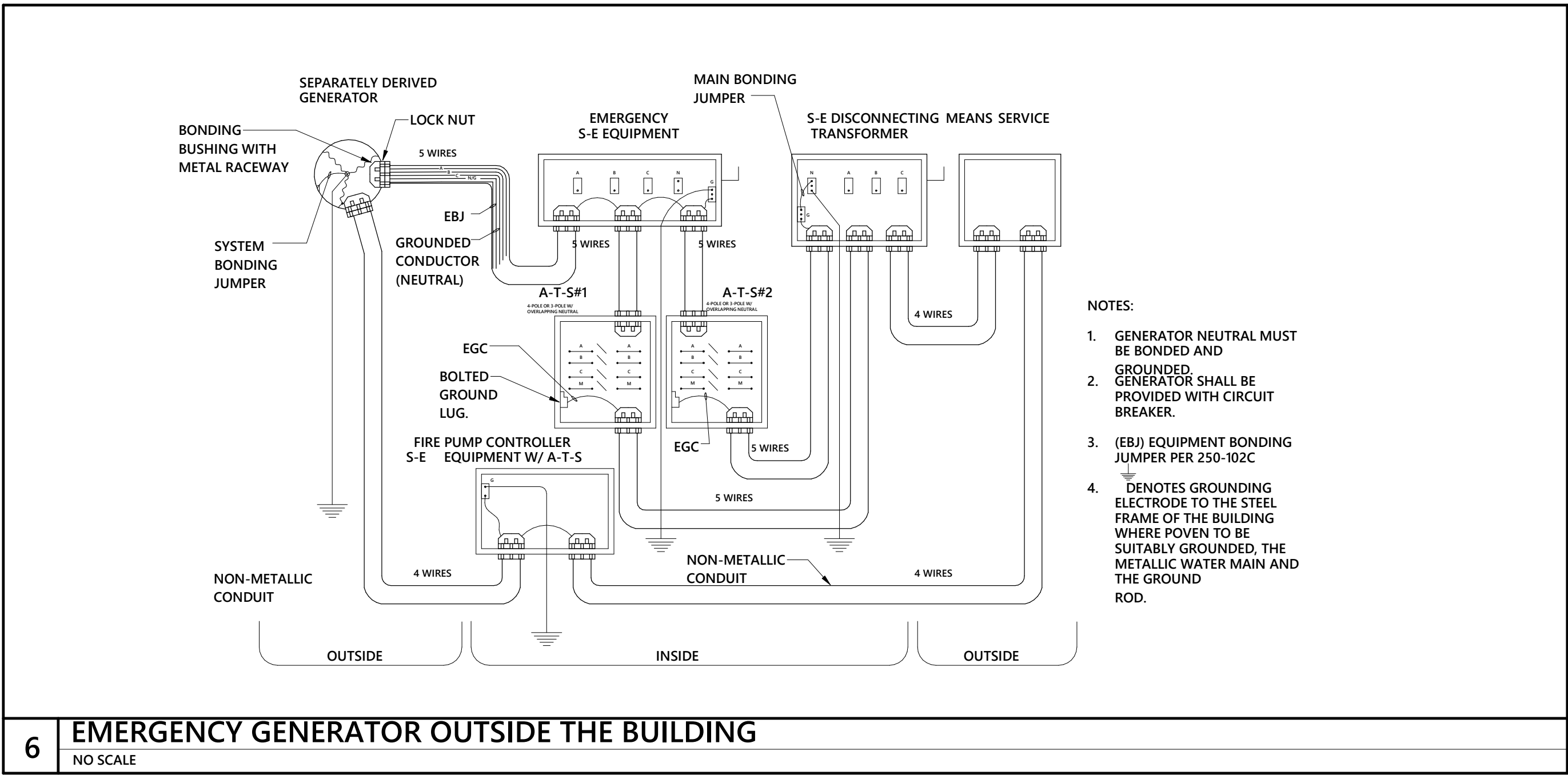
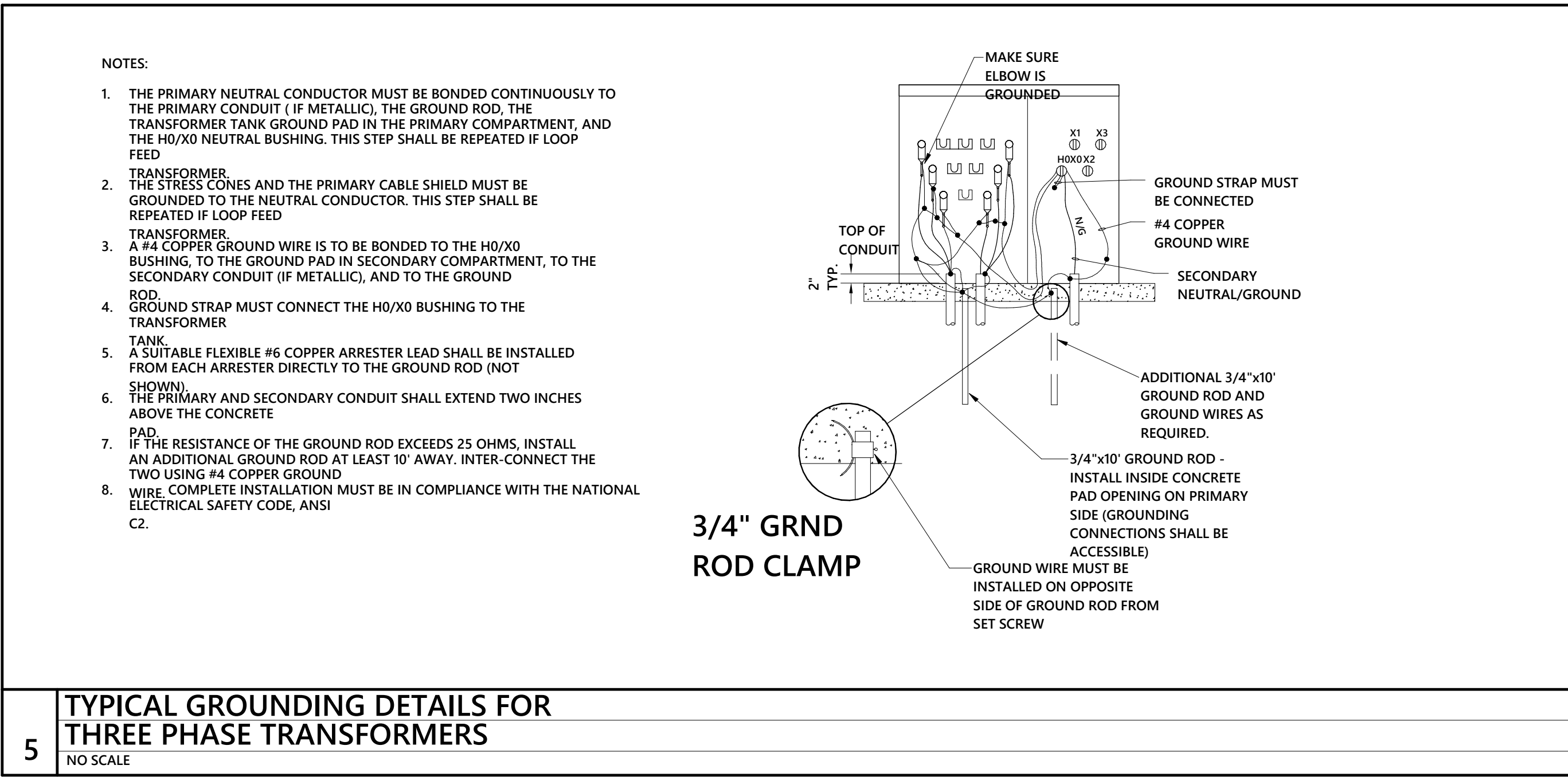
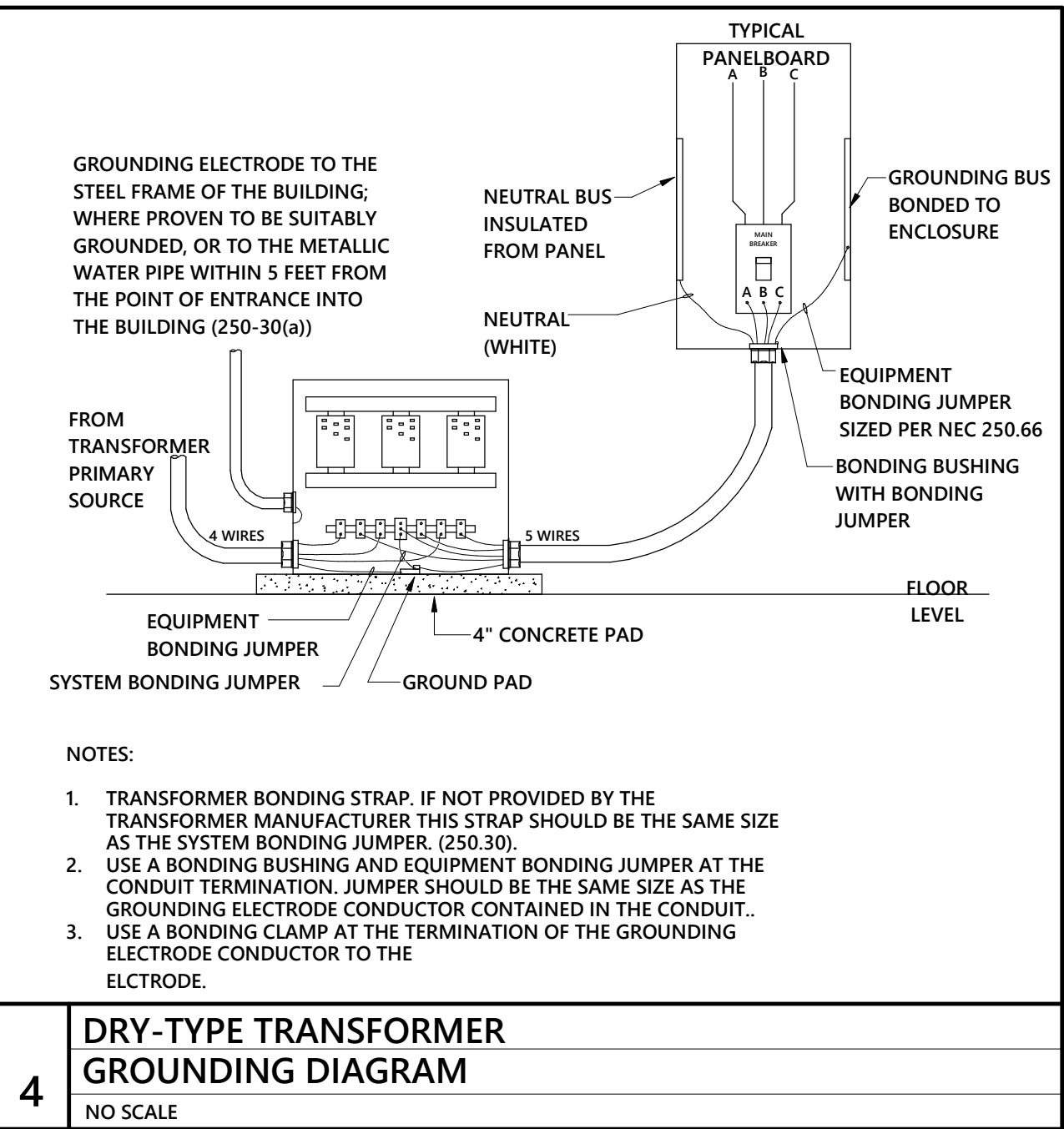
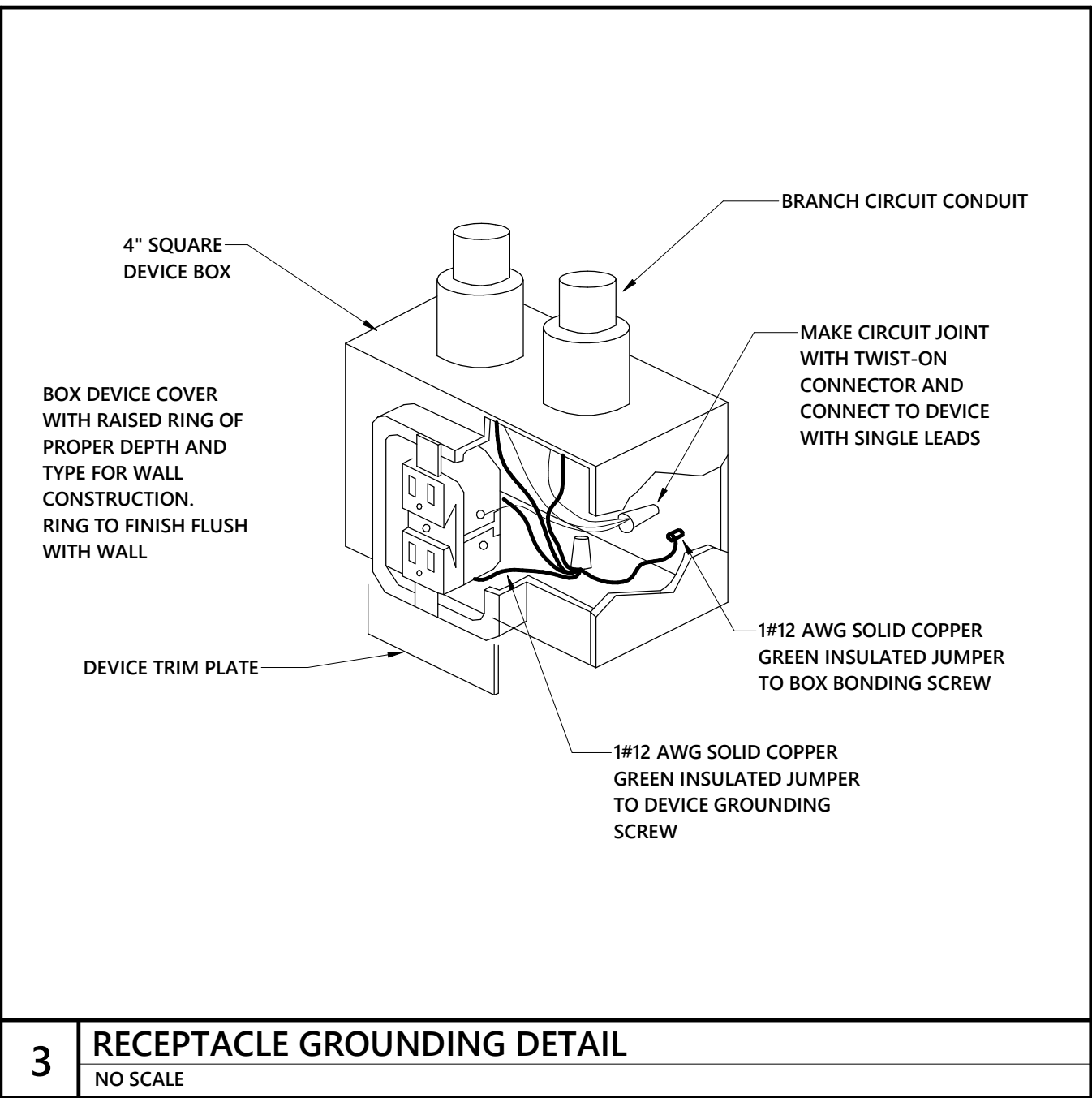
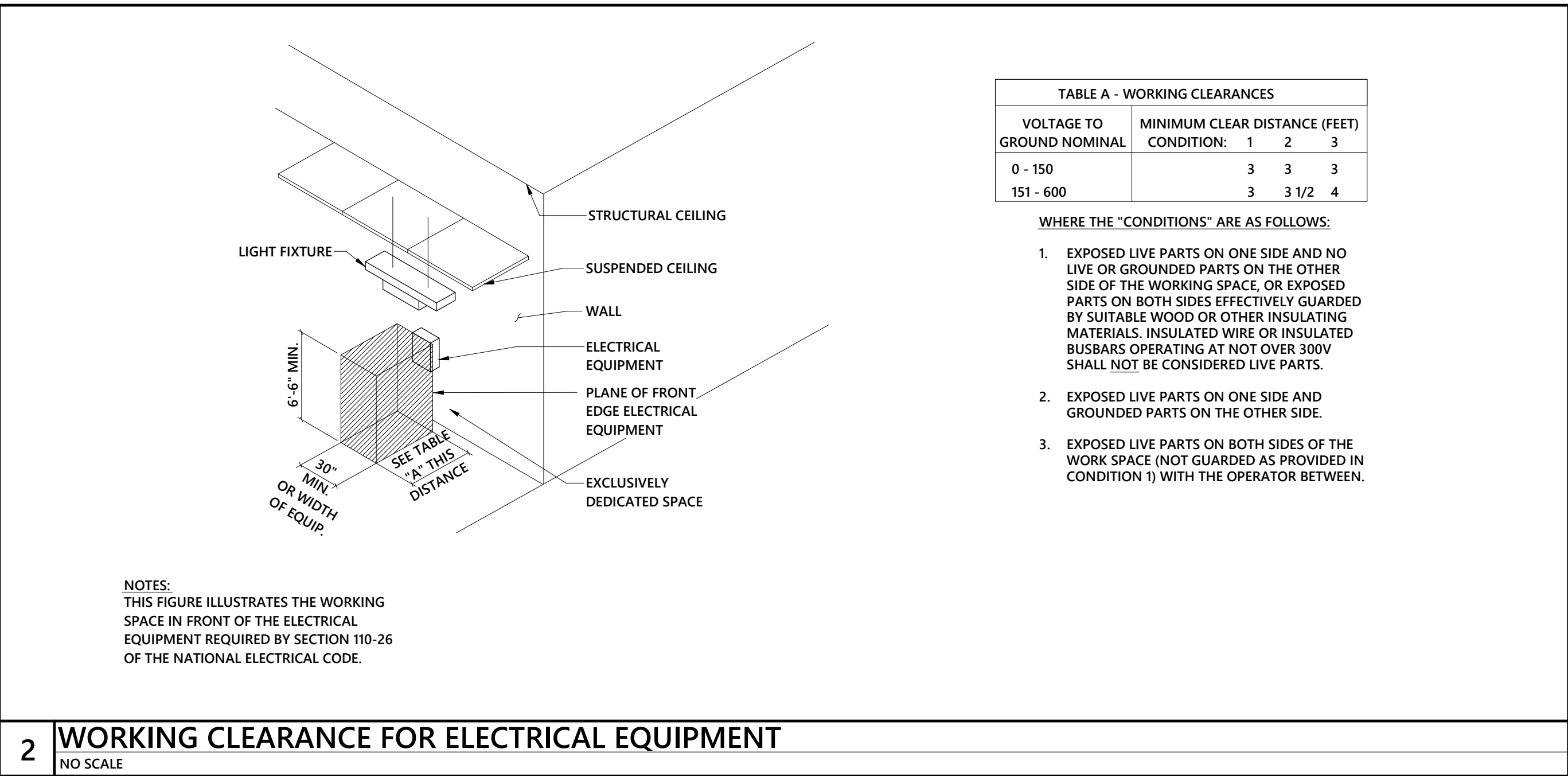
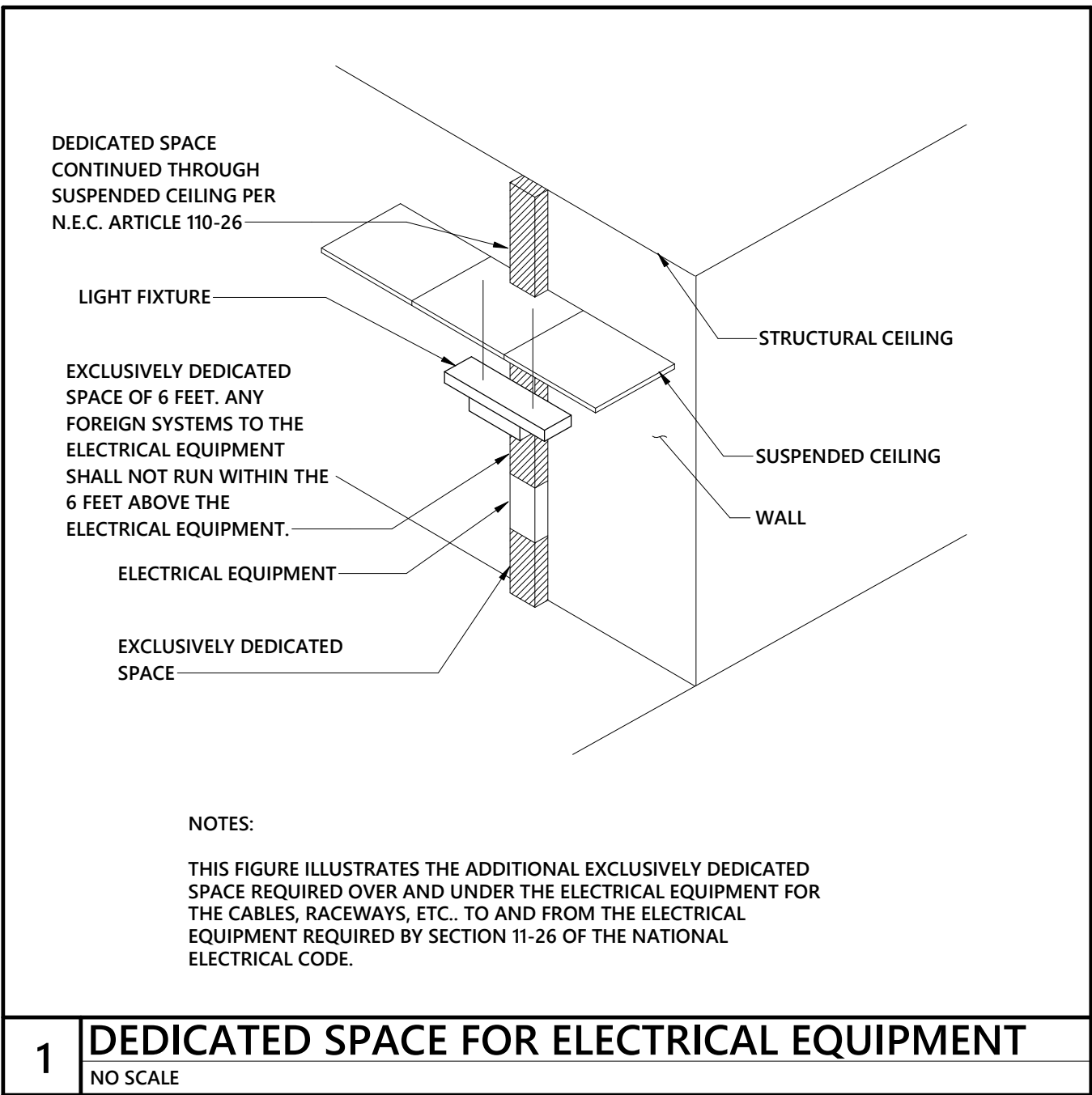
ELECTRICAL DETAILS

SCALE: As indicated

E-606

CD PACKAGE 2 - BUILDING

08-05-2020



SEAL

KEY PLAN

PERKINS EASTMAN

520 West Sixth Street
Charlotte, NC 28202
T: +1 704 540 9501
F: +1 704 362 4602

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Construction Manager Address

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Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:

UNCW SOUTHEAST DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

ELECTRICAL DETAILS

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

E-607

CD PACKAGE 2 - BUILDING

08-05-2020

KEY PLAN

Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 0206

08-05-2020



1. E.C. SHALL PROVIDE A P.T. SEPARATION BARRIER AT THE UTILITY TRANSFORMER BETWEEN THE LOW VOLTAGE AND HIGH VOLTAGE SECTIONS.
2. TYPE OF METER ON "M.D.P." IS TO BE VERIFIED WITH WORK PRIOR TO ORDERING. BASIS OF DESIGN IS "MOM" CLASS 500 OR EQUIV. (SQUARE D OR VERSI). METERS ARE SHOWN AS (HTR)
3. COORDINATE CONDUIT AND CABLE SIZES WITH M.C. PRIOR TO ORDERING.
4. FEEDERS THAT ARE REQUIRED TO BE CONCRETE ENCASED ARE TO BE CONCRETE ENCASED UNTIL TERMINATION POINT, INCLUDING UNDER BUILDING SLABS. EXCAVATION WILL BE REQUIRED IN EXISTING MAIN ELECTRICAL ROOM.
5. PROVIDE CONCRETE PAD FOR UTILITY TRANSFORMER. PAD SPECS ARE TO BE COORDINATED WITH TRANSFORMER MANUFACTURER.

[illegible]

LIGHTING FIXTURE SCHEDULE											Count
TYPE	DESCRIPTION	LAMP	BALLAST/DRIVER	WATTAGE	VOLTAGE	MFR	CATALOG SERIES	NOTE		Count	
DL1	6" RECESSED DOWNLIGHT	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	18 W	UNIV	GOTHAM JUNO COOPER	EVO 14 6AR LS MVOLT APPROVED EQUAL APPROVED EQUAL	4000K; 1250 MINIMUM LUMENS 6" APERTURE MINIMUM 10% DIMMING CLEAR SPECULAR UL LISTED DAMP LOCATIONS		43	
DL2	6" RECESSED DOWNLIGHT	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	30 W	UNIV	GOTHAM JUNO COOPER	EVO 22 6AR LS MVOLT APPROVED EQUAL APPROVED EQUAL	4000K; 2000 MINIMUM LUMENS 6" APERTURE MINIMUM 10% DIMMING CLEAR SPECULAR UL LISTED DAMP LOCATIONS		2	
DL3	6" RECESSED DOWNLIGHT	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	44 W	UNIV	GOTHAM JUNO COOPER	EVO 30 6AR LS MVOLT APPROVED EQUAL APPROVED EQUAL	4000K; 3000 MINIMUM LUMENS 6" APERTURE MINIMUM 10% DIMMING CLEAR SPECULAR UL LISTED DAMP LOCATIONS		23	
EX1GE	CLEAR EDGE-LIT EXIT SIGN	LED	INTEGRAL LED DRIVER	1 W	UNIV	LITHONIA HUBBELL COOPER	LRP 1 RMR/RC 120/277 DUAL LITE SURE-LITES	NON-BATTERY EXIT SIGN (GENERATOR); SEE PLANS FOR FACE STYLE AND QTY UL LISTED FOR DAMP LOCATIONS RED		19	
L2	DECORATIVE PENDANT (BEVERAGE STATIONS)	LED GUS; 3 BASE 40W EQUIVALENT	120V TO 12V REMOTE DRIVER (DIMMABLE)	8 W	UNIV	TECH LIGHTING LITHONIA EATON	MINI ELA PENDANT 700 MP ELA K Z LEDS930 APPROVED EQUAL APPROVED EQUAL	3000K; 300 MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT VERIFY PENDANT SUSPENSION LENGTH WITH ARCHITECT		22	
L3	DECORATIVE PENDANT (GRAB & GO)	LED A-19 (E-26 BASE) 60W EQUIVALENT	N/A	18 W	UNIV	EIK LIGHTING LITHONIA EATON	25102/1 APPROVED EQUAL APPROVED EQUAL	3000K; XXX MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT VERIFY PENDANT SUSPENSION LENGTH WITH ARCHITECT		6	
L5	DECORATIVE PENDANT (EVERYTHING BOWL)	LED A-19 (E-26 BASE) 60W EQUIVALENT	N/A	10 W	UNIV	TECH LIGHTING LITHONIA EATON	PLAYA PENDANT 700 TO PLAP N Z LED927 APPROVED EQUAL APPROVED EQUAL	2700K; 800 MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT VERIFY PENDANT SUSPENSION LENGTH WITH ARCHITECT		6	
L6	DECORATIVE PENDANT (GRILL/BREAKFAST ALL DAY ROTISSERIE/CLEAN)	LED A-19 (E-26 BASE) 75W EQUIVALENT	N/A	19 W	UNIV	TECH LIGHTING LITHONIA EATON	PARAVO PENDANT 700 TD PRVP GS LED927 APPROVED EQUAL APPROVED EQUAL	2700K; 1680 MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT VERIFY PENDANT SUSPENSION LENGTH WITH ARCHITECT		8	
L7	DECORATIVE PENDANT (BAJA LATIN)	LED GYS; 3 BASE 40W EQUIVALENT	120V TO 12V REMOTE DRIVER (DIMMABLE)	8 W	UNIV	TECH LIGHTING LITHONIA EATON	FIREBOLT PENDANT 700 MP FIREB B Z LEDS930 APPROVED EQUAL APPROVED EQUAL	3000K; 300 MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT VERIFY PENDANT SUSPENSION LENGTH WITH ARCHITECT		9	
L9	WALL SCONCE	LED A-19 (E-26 BASE) 60W EQUIVALENT	N/A	40 W	UNIV	KITCHLER LITHONIA EATON	KRYSALIS 27 APPROVED EQUAL APPROVED EQUAL	3000K; 800 MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT UL LISTED DAMP LOCATIONS		8	
L10a	DECORATIVE PENDANT - 23" (ROTUNDA SEATING)	LED 40W EQUIVALENT	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	21 W	UNIV	LUMETTA LITHONIA EATON	PE2301SL XX F7 L411-LED1671 CCT 3000K CRI90 STM APPROVED EQUAL APPROVED EQUAL	3000K; 1500 MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT VERIFY PENDANT SUSPENSION LENGTH WITH ARCHITECT		7	
L10b	DECORATIVE PENDANT (GENERAL SEATING)	LED 40W EQUIVALENT	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	21 W	UNIV	LUMETTA LITHONIA EATON	PE2305SL XX F7 L411-LED1671 CCT 3000K CRI90 STM APPROVED EQUAL APPROVED EQUAL	3000K; 1500 MINIMUM LUMENS VERIFY ALL FINISHES WITH ARCHITECT VERIFY PENDANT SUSPENSION LENGTH WITH ARCHITECT		38	
OP1L	LED POLE MOUNT AREA LIGHT	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	52 W	UNIV	LITHONIA KIM CREE COOPER	DS21 30C 534 40K TSVS RPA WARP9 LED OSQ SERIES GALLION LED APPROVED EQUAL APPROVED EQUAL	TYPE 5 DISTRIBUTION 4000K ROUND STEEL POLE 5,000+ LUMENS		2	
OPP1	LED POLE MOUNT PEDESTRIAN LIGHT	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	70 W	UNIV	LITHONIA HUBBELL COOPER	APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL			10	
OR1L	OUTDOOR RECESSED STEP LIGHT	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	11 W	UNIV	BEGA KIM COOPER	22 372 APPROVED EQUAL APPROVED EQUAL	4000K VERIFY FINISH AND COLORS WITH ARCHITECT PRIOR TO ORDERING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.		38	
OW1L	WALL PACK TRAPEZOID	LED	INTEGRAL LED DRIVERS (2)	30 W	UNIV	LITHONIA HUBBELL COOPER	WST LED P2 4000K VW MVOLT APPROVED EQUAL APPROVED EQUAL	4000K; 3900 MINIMUM LUMENS COLOR CHOSEN BY ARCHITECT LS 101 EMERGENCY COMPLIANT (WIDE ANGLE)		2	
OWS1	OUTDOOR DECORATIVE SCONCE	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	0 W	UNIV	XXX	XXX	XXX		6	
STL1	4 FT. STRIP	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	35 W	UNIV	LITHONIA WILLIAMS COOPER	CLX LED L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI APPROVED EQUAL APPROVED EQUAL	4000K; 5000 MINIMUM LUMENS PROVIDE CHAIN FOR PENDANT MOUNTING; PROVIDE WIRE GUARD LENSED		39	
VT10	VOLUMETRIC 2X2 LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	38 W	UNIV	LITHONIA WILLIAMS COOPER	2VT12 48L ADP E21 LP840 APPROVED EQUAL APPROVED EQUAL	4000K; 4800 MINIMUM LUMENS UL LISTED DAMP LOCATIONS		12	
VT11	VOLUMETRIC 2X2 LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	49 W	UNIV	LITHONIA WILLIAMS COOPER	2VT12 60L ADP E21 LP840 APPROVED EQUAL APPROVED EQUAL	4000K; 6000 MINIMUM LUMENS UL LISTED DAMP LOCATIONS		7	
VT12	VOLUMETRIC 2X2 LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	56 W	UNIV	LITHONIA WILLIAMS COOPER	2VT12 72L ADP E21 LP840 APPROVED EQUAL APPROVED EQUAL	4000K; 7000 MINIMUM LUMENS UL LISTED DAMP LOCATIONS		12	
VT15	VOLUMETRIC 2X4 LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	39 W	UNIV	LITHONIA WILLIAMS COOPER	2VT14 48L ADP E21 LP840 APPROVED EQUAL APPROVED EQUAL	4000K; 4800 MINIMUM LUMENS UL LISTED DAMP LOCATIONS		4	
VT16	VOLUMETRIC 2X4 LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	44 W	UNIV	LITHONIA WILLIAMS COOPER	2VT14 60L ADP E21 LP840 APPROVED EQUAL APPROVED EQUAL	4000K; 6000 MINIMUM LUMENS UL LISTED DAMP LOCATIONS		18	
VT17	VOLUMETRIC 2X4 LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	58 W	UNIV	LITHONIA WILLIAMS COOPER	2VT14 72L ADP E21 LP840 APPROVED EQUAL APPROVED EQUAL	4000K; 7000 MINIMUM LUMENS UL LISTED DAMP LOCATIONS		27	
WU1L	WALL MOUNTED UPLIGHT		INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	61 W	UNIV	WINONA HUBBELL COOPER	WLAWC804 SEHI INT 12L0NG AL144 40K MVOLT APPROVED EQUAL APPROVED EQUAL	4000K; 6500 MINIMUM LUMENS 30 DEGREE TILT DOWN MOUNTED AT 15' AFF VERIFY FINISH WITH ARCHITECT		66	
XPM - FL	N/A	LED 9600 lm		295 W	UNIV					8	



SEAL

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SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:
LIGHTING FIXTURE
SCHEDULE

SCALE

E-801

CD PACKAGE 2 - BUILDING

08-05-2020

[illegible]

SEAL

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SCO #: 19-21358-01B

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DRAWING TITLE

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

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

E-803

CD PACKAGE 2 - BUILDING

08-05-2020

[illegible]

PUMP SCHEDULE					
SYMBOL	SERVICE	ELECTRICAL			DISCONNECT
		R.P.M.	N.P.	VOLTAGE	
P-1	CHILLED WATER	1800	10	208/3/60	VFD YES
P-2	HOT WTR	3600	3	208/3/60	YES
P-3	HEX PUMP	3600	5	208/3/60	NO
P-4	RTU-1 HOT WTR PREHEAT	3571	5	120/1/60	ECM
P-5	DOAS-1 HOT WTR PREHEAT	2465	1.0	120/1/60	ECM

NOTES:

1. ALL PUMPS SHALL BE SELECTED AT NON-OVERLOADING CONDITIONS FOR THE MOTOR PROVIDED
2. VFDs SHALL BE PROVIDED WITH GROUNDING RINGS & MANUAL BYPASS
3. PUMPS SHALL BE PROVIDED WITH 65,000 AIC WITH STAND RATING, MC SHALL PROVIDE FUSED DISCONNECT AND STARTER WITH CONTACTS

AIR CURTAIN SCHEDULE

ACU-1 INDOOR AMBIENT AIR CURTAIN

EQUAL TO BERNER CHD-10-2072A, RATED FOR 8'H DOOR (INSECT CONTROL)
(2) 1/2HP MOTORS @ 208/1/60, PROVIDE DOOR INTERLOCK SWITCH

NOTES:

1. COORDINATE REQUIRED DOOR MOUNTING REQUIREMENTS

CONDENSING BOILER SCHEDULE						
UNIT NUMBER	EFF. (%)	WATER			ELECTRICAL	
		FLOW (GPM)	E.W.T. (°F)	L.W.T. (°F)	MAX. P.D.	DISCONNECT
HWB-1	93.7%	125	130	160	10'	
NOTES:						
1. PROVIDE FUSED DISCONNECT SWITCH WITH EACH BOILER 120V/60 - 20A CIRCUIT						

DUCTLESS SPLIT SYSTEMS (COOLING ONLY)									
INDOOR UNIT				OUTDOOR UNIT					
SYMBOL	ELECTRICAL DATA MCA	MOCR	VOLTAGE	SYMBOL	COMPRESSOR RLA	ELECTRICAL DATA MCA	FUSE	DISCONNECT	
IDU-1	--	--	208V-1PH	ODU-1	--	17	20	208/1/60	

NOTES:

1. PROVIDE UNITS WITH CONDENSATE PUMP & NON-LOCKING DISCONNECT FOR INDOOR UNIT.
FOR ALL INDOOR UNITS THE POWER SUPPLY IS FED FROM THE ASSOCIATED OUTDOOR UNIT, THE OUTDOOR UNIT SHALL RECEIVE A DEDICATED ELECTRICAL CONNECTION AS NOTED IN THE SCHEDULE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE NOTED UNITS. THE MECHANICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES, AND POWER WIRING BETWEEN DISCONNECTS AND EQUIPMENT.
- 3.

FAN SCHEDULE						
SYMBOL	LOCATION	TYPE	ELECTRICAL DATA			DISCONNECT
			VFD	H.P.	VOLTAGE	
F-1	ROOF	DOWNBLAST	N/A	1/3	120/160V	
KEF-1	ROOF	ROOF MNTD.	*	2	208/3/60	
KEF-2	ROOF	ROOF MNTD.	*	3	208/3/60	
KEF-3	ROOF	ROOF MNTD.	*	3/4	120/160	
KEF-4	ROOF	ROOF MNTD.	*	2	208/3/60	
KEF-5	ROOF	ROOF MNTD.	*	5	208/3/60	
KEF-6	ROOF	ROOF MNTD.	*	3	208/3/60	
KEF-7	ROOF	ROOF MNTD.	*	1/2	120/160	
KEF-8	ROOF	ROOF MNTD.	*	1/3	120/160	

NOTES:

- MECHANICAL CONTRACTOR SHALL PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AS REQUIRED.
- VFD IS PROVIDED AS A PART OF THE ASSOCIATED HOOD CONTROL PANEL. REFER TO KITCHEN HOOD WIRING DIAGRAMS FOR MORE INFORMATION

FAN COIL UNIT SCHEDULE		
SYMBOL	MOTOR (ELECTRICAL DATA)	
	HP	VOLTAG
FCU-1	(1) 1/4	120/1/60
FCU-2*	(1) 1/4	120/1/60
FCU-3*	(2) 1/4	120/1/60
FCU-4*	(2) 1/4	120/1/60
FCU-5*	(2) 1/4	120/1/60
FCU-6	(1) 1/10	120/1/60
NOTES:		
1. PROVIDE NON FUSED INTEGRAL DISCONNECT SWITCH MOUNTED ON UNIT		

MAKE-UP AIR UNIT SCHEDULE (GAS FIRED HEAT WITH GLYCOL COOLING)						
UNIT NUMBER	LOCATION	AREA SERVED	ELECTRICAL DATA			
			SUPPLY FAN (H.P.)	VOLTS	PHASE	H ₂ DISCONNECT
MUA-1	ROOF	KITCHEN HOOD-X	3	208	3	60
MUA-2	ROOF	KITCHEN HOOD-X	3	208	3	60
MUA-3	ROOF	KITCHEN HOOD-X	3/4	120	1	60
MUA-4	ROOF	KITCHEN HOOD-X	3	208	3	60
MUA-5	ROOF	KITCHEN HOOD-X	3	208	3	60
MUA-6	ROOF	KITCHEN HOOD-X	3	208	3	60

NOTES:

- MECHANICAL CONTRACTOR SHALL PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AS REQUIRED.
- ALL UNITS SHALL BE PROVIDED WITH VFDs

SWITCHBOARD: MDP

VOLTAGE: 208Y/120 3Ø

MOUNTING:

MAIN: 2500 A

MAIN TYPE:

PHASE: 3

WIRE: 4

MANUFACTURER...

TYPE: 65 KAIC

MAIN CB NOTES:

CKT/ID	LOAD SERVED	FRAME	TRIP	POLE	FEEDER	NOTES	Load
1	PANEL-KP1	1000 A	1000 A	3	SEE RISER DIAGRAM		277.4 KVA
2	PANEL-KP4	1000 A	1000 A	3	SEE RISER DIAGRAM		242.0 KVA
3	PANEL-R1A	400 A	400 A	3	SEE RISER DIAGRAM		17.5 KVA
4	PANEL-L1	200 A	200 A	3	SEE RISER DIAGRAM		6.7 kVA
5	PANEL - M1	250 A	225 A	3	SEE RISER DIAGRAM		52 KVA
6	PANEL - M2	250 A	225 A	3	SEE RISER DIAGRAM		52.7 KVA
7	PANEL-GM	400 A	400 A	3	SEE RISER DIAGRAM		16.7 KVA
8	PANEL-LS	100 A	100 A	3	SEE RISER DIAGRAM		8.5 KVA
9	PANEL-SB	400 A	400 A	3	4#1, 1#B G		91.3 KVA
10	REMOTE REFRIGERATION SYSTEM	125 A	125 A	3			32.3 KVA
11	RTU-1 (SUPPLY FAN)	125 A	110 A	3			26.5 KVA
12	RTU-1 (RETURN FAN)	125 A	80 A	3			17.9 KVA
13	DOAS-1 (SUPPLY FAN)	125 A	80 A	3			17.5 KVA
14	SPARE	--	225 A	1			0.0 KVA
15	SPARE	--	225 A	1			0.0 KVA

Load Classification	Connected...	Demand Factor	Estimated Demand	NOTES:
LIGHTS	15605 VA	125.00%	19506 VA	
HEATING	500 VA	100.00%	500 VA	
COOLING	3328 VA	100.00%	3328 VA	
VENTILATION	2000 VA	100.00%	2000 VA	
MOTORS	155282 VA	104.23%	161855 VA	
KITCHEN	475319 VA	65.00%	308957 VA	
RECEPTACLES	31610 VA	65.62%	20805 VA	
WATER HEATER	2800 VA	100.00%	2800 VA	
MISC	147560 VA	100.00%	147560 VA	
ELEVATOR	0 VA	0.00%	0 VA	
Spare	0 VA	0.00%	0 VA	
TOTAL KVA (CONNECTED):	859.2 KVA	TOTAL PER PHASE - (CONNECTED)		
TOTAL KVA (DEMAND):	692.6 KVA	2415.3 A	2380.5 A	2367.9 A
TOTAL AMP. (CONNECTED):	2385.0 A			
TOTAL AMP. (DEMAND):	1922.3 A			

VOLTAGE: 208Y/120/30										PANEL: M10				FED FROM: MDP	
MOUNTING: SURFACE					MAIN TYPE: MLO					MFR:					
ENCLOSURE: NEMA1					PHASE: 3					TYPE:					
MAIN: 225 A					WIRE: 4					AIC: 42 KAIC					
LC Addr	Load Served	Wire	Tripp	Qty No	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Qty No	Tripp	Wire	Load Served	LC Addr	
M...RCP1		12	20 A	1	1	0.53	1.18			1	2	20 A	12 KEF-7	M...	
M...F.1		12	20 A	3	1		0.86	1.40		1	4	20 A	12 WH1	M...	
M...KEF-8		12	20 A	5	1			0.86	1.40	1	6	20 A	12 WH1	M...	
M...KEF-3		12	20 A	7	1	1.66	1.66			1	8	20 A	12 MUA-3	M...	
M...ACU-1		12	20 A	9	2		0.92	1.66		2	10	20 A	12 ODU-1 & IDU-1	M...	
M...KEF-1		12	20 A	13	3	0.90	1.27			3	16	20 A	12 KEF-2	M...	
M...KEF-4		12	20 A	17	3		0.90	1.27		3	16	20 A	12 KEF-6	M...	
M...MUA-1		12	20 A	19	3	0.90	1.27			3	22	20 A	12 MUA-2	M...	
M...MUA-4		12	20 A	21	3		0.90	1.27		3	22	20 A	12 MUA-5	M...	
M...MUA-6		12	20 A	23	3			0.90	1.27	3	24	20 A	12 KEF-5	M...	
M...MUA-6		12	20 A	25	3	1.27	1.27			3	26	20 A		M...	
M...MUA-6		12	20 A	27	3		1.27	1.27		3	28	20 A		M...	
M...MUA-6		12	20 A	29	3			1.27	1.27	3	30	20 A		M...	
M...MUA-6		12	20 A	31	3	1.27	1.27			3	32	20 A		M...	
M...MUA-6		12	20 A	33	3		1.27	1.27		3	34	20 A		M...	
M...MUA-6		12	20 A	35	3			1.27	1.27	3	36	20 A		M...	
M...MUA-6		12	20 A	37	3	1.27	2.01			3	38	20 A		M...	
M...MUA-6		12	20 A	39	3		1.27	2.01		3	40	20 A		M...	
M...MUA-6		12	20 A	41	3			1.27	2.01	3	42	20 A		M...	
LOAD CLASSIFICATION ABBREVIATIONS (CONT.)															
F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.															

VOLTAGE: 208Y/120 3Ø										PANEL: M2										FED FROM: MDP	
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 225 A										MAIN TYPE: MLO PHASE: 3 WIRE: 4										MFR: TYPE: AUC: 42 KAIC	
LC Abbr	Load Served	Wire	Tripp	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Ohm	Tripp	Wire	Load Served	LC Abbr								
M.	FCU-6	12	20 A	1	0.46	0.70				1	2	20 A	12	FCU-1							
H.	HWB-1	12	20 A	3	1		0.50	0.70		1	4	20 A	12	FCU-2							
M.	MECH CONTROLS	12	20 A	5	1			0.50	1.92	1	6	20 A	12	PUMP P-5							
M.	FCU-3	12	20 A	7	1	1.33	0.50			1	8	20 A	12	VAV-10.1,1.2							
M.	PUMP P-4	12	20 A	9	1		1.18	0.50		1	10	20 A	12	VAV-3.4.5							
V.	VAV-7.8.9	12	20 A	11	1			0.50	0.50	1	12	20 A	12	VAV-1.2.6							
M.	MECH CONTROLS	12	20 A	13	1	0.50	0.50			1	14	20 A	12	MECH CONTROLS							
M.	MECH CONTROLS	12	20 A	15	1		0.50	0.50		1	16	20 A	12	MECH CONTROLS							
M.	MECH CONTROLS	12	20 A	17	1			0.50	1.33	1	18	20 A	12	FCU-5							
M.	FCU-5	12	20 A	19	1	1.33	1.33			1	20	20 A	12	FCU-5							
M.	FCU-5	12	20 A	21	1		1.33	1.33		1	22	20 A	12	FCU-5							
M.	FCU-5	12	20 A	23	1			1.33	1.33	1	24	20 A	12	FCU-5							
M.	FCU-4	12	20 A	25	1	1.33	1.33			1	26	20 A	12	FCU-4							
M.	FCU-5	12	20 A	27	1		1.33	1.33		1	28	20 A	12	FCU-4							
M.	FCU-4	12	20 A	29	1			1.33	1.33	1	30	20 A	12	FCU-4							
M.	FCU-3	12	20 A	31	1	1.33	1.27				32										
M.	FCU-4	12	20 A	33	1		1.33	1.27		3	34	20 A	12	PUMP P-2							
MO TO RS				35				2.01	1.27		36										
MO TO RS	PUMP P-3			37	3	2.01	3.70				38										
				39			2.01	3.70			40	8		PUMP P-1							
--	SPARE	--	20 A	41	1			0.00	3.70		42										
LOAD																					
		Connected Load		Demand Factor		Estimated Demand		NOTES:													
L	LIGHTS	0 VA		0.00%		0 VA		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.													
H	HIGH T	500 VA		100.00%		500 VA		2. SHALL BE FULLY RATED - SERIES RATING NOT ALLOWED.													
C	COOLING	0 VA		0.00%		0 VA		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.													
V	VENTILATION	2000 VA		100.00%		2000 VA		4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.													
M	MOTORS	47223 VA		105.87%		49698 VA		5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.													
K	KITCHEN	0 VA		0.00%		0 VA		6. PROVIDE METAL DIRECTORY FRAME.													
R	RECEPTACLES	0 VA		0.00%		0 VA		7. PROVIDE BREAKER WITH SHUNT TRIP.													
WH	WATER HEATER	0 VA		0.00%		0 VA															
MI	MISC.	3000 VA		100.00%		3000 VA															
S	Spare	0 VA		0.00%		0 VA															
E	ELEVATOR	0 VA		0.00%		0 VA															
TOTAL KVA (CONNECTED):		52.72 KVA		TOTAL PER PHASE (CONNECTED)				LOAD CLASSIFICATION ABBREVIATIONS (CONT.)													
TOTAL KVA (DEMAND):		55.50 KVA		147.0 A				146.0 A				F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.									
TOTAL AMP (CONNECTED):		146 A																			
TOTAL AMP (DEMAND):		154 A																			

VOLTAGE: 208Y/120 3Ø

PANEL: L1

FED FROM: MOP

MOUNTING: SURFACE

ENCLOSURE: NEMA 3

MAIN: 200 A

MAIN TYPE: MLO

PHASE: 3

WIRE: 4

MFR:

TYPE:

AIC: 42 KAIC

LC Addr	Load Served	Wire	Trip	Ckt No	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Ckt No	Trip	Wire	Load Served	LC Addr
L.L.	LTG - AREA POLES	12	20 A	3	1	0.12	0.44			1	2	20 A	12	LTG - STARBUCKS PENDANTS
L.L.	LTG - PEDESTRIAN POLES	12	20 A	3	1		0.71	1.46		1	4	20 A	12	LTG - KITCHEN & SERVING
L.L.	LTG - BACK OF HOUSE & STORAGE	12	20 A	5	1			0.97	1.10	1	6	20 A	12	LTG - KITCHEN & SERVING
L.L.	LTG - DINING PENDANTS	12	20 A	7	1	0.86	1.04			1	8	20 A	12	LTG - DISH ROOM & TOILETS
L.L.	LCF1	12	20 A	9	1		0.00	0.00		1	10	20 A	--	S-PARE
--	S-PARE	--	20 A	11	1			0.00	0.00	1	12	20 A	--	S-PARE
--	S-PARE	--	20 A	13	1	0.00	0.00			1	14	20 A	--	S-PARE
--	S-PARE	--	20 A	15	1		0.00	0.00		1	16	20 A	--	S-PARE
--	S-PARE	--	20 A	17	1			0.00	0.00	1	18	20 A	--	S-PARE
--	S-PARE	--	20 A	19	1	0.00	0.00			1	20	20 A	--	S-PARE
--	S-PARE	--	20 A	21	1		0.00	0.00		1	22	20 A	--	S-PARE
--	S-PARE	--	20 A	23	1			0.00	0.00	1	24	20 A	--	S-PARE
--	SPACE ONLY	--	--	25	--	0.00	0.00			--	26	--	--	SPACE ONLY
--	SPACE ONLY	--	--	27	--		0.00	0.00		--	28	--	--	SPACE ONLY
--	SPACE ONLY	--	--	29	--			0.00	0.00	--	30	--	--	SPACE ONLY
--	SPACE ONLY	--	--	31	--	0.00	0.00			--	32	--	--	SPACE ONLY
--	SPACE ONLY	--	--	33	--		0.00	0.00		--	34	--	--	SPACE ONLY
--	SPACE ONLY	--	--	35	--			0.00	0.00	--	36	--	--	SPACE ONLY
--	SPACE ONLY	--	--	37	--	0.00	0.00			--	38	--	--	SPACE ONLY
--	SPACE ONLY	--	--	39	--		0.00	0.00		--	40	--	--	SPACE ONLY
--	SPACE ONLY	--	--	41	--			0.00	0.00	--	42	--	--	SPACE ONLY

LOAD		Connected Load	Demand Factor	Estimated Demand	NOTES:
L	LIGHTS	6707 VA	125.00%	8384 VA	1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATING NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL & BRKR LG LOADS WITH MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTLIER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME.
H	HEATING	0 VA	0.00%	0 VA	
G	COOLING	0 VA	0.00%	0 VA	
V	VENTILATION	0 VA	0.00%	0 VA	
M	MOTORS	0 VA	0.00%	0 VA	
K	KITCHEN	0 VA	0.00%	0 VA	
R	RECEPTACLES	0 VA	0.00%	0 VA	
WH	WATER HEATER	0 VA	0.00%	0 VA	
M	MISC.	0 VA	0.00%	0 VA	
S	SPARE	0 VA	0.00%	0 VA	
E	ELEVATOR	0 VA	0.00%	0 VA	

TOTAL KVA (CONNECTED):	6.71 KVA	TOTAL PER PHASE (CONNECTED)		LOAD CLASSIFICATION ABBREVIATIONS (CONT.)
TOTAL KVA (DEMAND):	8.38 KVA	20.6 A	18.2 A	17.3 A
TOTAL AMP (CONNECTED):	19 A			
TOTAL AMP (DEMAND):	23 A			

F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

VOLTAGE: 208Y/120 3Ø										PANEL: R1A										FED FROM: MDP	
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 400 A										MAIN TYPE: MLO PHASE: 3 WIRE: 4										MFR: TYPE: AIC: 42KAIC	
LC Abbr.	Load Served	Wire	Trp	Ovt No	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Ovt No	Trp	Wire	Load Served	LC Abbr.							
R.	REC - BOILER	12	20	A	1	0.36	0.54			1	2	20	12 REC - EXTERIOR	R.							
R.	REC - DINING	12	20	A	1		0.90	1.44		1	4	20	12 REC - DINING B & EXTERIOR	R.							
R.	REC - AT'S & ELEC	12	20	A	5	1		1.44	1.28	1	6	20	12 REC - DINING A & EXTERIOR	R.							
M.	EWG.(GFCI BREAKER)	12	20	A	7	1	0.70	0.72		1	8	20	12 REC - CHFF OFFICE	R.							
R.	REC - RESTROOMS & HALL	12	20	A	9		0.72	0.90		1	10	20	12 REC - ROOFTOP	R.							
R.	REC-DINING A & EXTERIOR	12	20	A	11	1		0.72	0.90	1	12	20	12 REC-DINING A & EXTERIOR	R.							
R.	REC - DINING B & EXTERIOR	12	20	A	13	1	0.72	0.90		1	14	20	12 REC- RESROOMS & JC	R.							
R.	REC-DINING A& EXTERIOR	12	20	A	15	1		1.08	1.00	1	16	20	12 GOLF CART CHARGING	M.							
R.	REC-DINING A & EXTERIOR	12	20	A	17	1			1.08	1.00	1	18	20	12 GOLF CART CHARGING	M.						
R.	REC- DINING A & B	--	20	A	19	1	1.08	0.00		1	20	20	-- SPARE	--							
--	SPARE	--	20	A	21	1		0.00	0.00		1	22	20	-- SPARE	--						
--	SPARE	--	20	A	23	1			0.00	0.00	1	24	20	-- SPARE	--						
--	SPARE	--	20	A	25	1	0.00	0.00			1	26	20	-- SPARE	--						
--	SPARE	--	20	A	27	1			0.00	0.00	1	28	20	-- SPARE	--						
--	SPARE	--	20	A	29	1				0.00	0.00	1	30	20	-- SPARE	--					
--	SPARE	--	20	A	31	1	0.00	0.00			1	32	20	-- SPARE	--						
--	SPARE	--	20	A	33	1			0.00	0.00	1	34	20	-- SPARE	--						
--	SPARE	--	20	A	35	1				0.00	0.00	1	36	20	-- SPARE	--					
--	SPARE	--	20	A	37	1	0.00	0.00				38									
--	SPARE	--	20	A	39	1		0.00	0.00		3	40	20	300 PANEL-R1B	Other						
--	SPARE	--	20	A	41	1				0.00	0.00	42									
LOAD		Connected Load		Demand Factor		Estimated Demand		NOTES:													
L	LIGHTS	0 VA		0.00%		0 VA		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.													
H	HEATING	0 VA		0.00%		0 VA		2. SHALL BE FULLY RATED - SERIES RATED NOT ALLOWED													
C	COOLING	0 VA		0.00%		0 VA		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.													
V	VENTILATION	0 VA		0.00%		0 VA		4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.													
M	MOTORS	0 VA		0.00%		0 VA		5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.													
K	KITCHEN	0 VA		0.00%		0 VA		6. PROVIDE METAL DIRECTORY FRAME													
R	RECEPTACLES	14760 VA		83.88%		12380 VA															
WH	WATER HEATER	0 VA		0.00%		0 VA															
M1	MISC.	2700 VA		100.00%		2700 VA															
S	SPARE	0 VA		0.00%		0 VA															
E	ELEVATOR	0 VA		0.00%		0 VA															
TOTAL KVA (CONNECTED):		17.46 kVA		TOTAL PER PHASE: (CONNECTED)				LOAD CLASSIFICATION ABBREVIATIONS (CONT.)													
TOTAL KVA (DEMAND):		15.08 kVA		41.8 A		51.6 A		54.6 A		F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.											
TOTAL AMP. (CONNECTED):		48 A																			
TOTAL AMP. (DEMAND):		42 A																			

VOLTAGE: 208Y/120/30

MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 200 A

PANEL: R1B

MAIN TYPE: MLO
PHASE: 3
WIRE: 4

FED FROM: R1A

MFR: TYPE:
AIC: 42KAIC

LC Abbr	Load Served				Wire	Trp	Qty	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Qty	Trp	Wire	Load Served				LC Abbr	
--	S-PARE	--	20	A	1	1	0.00	0.00					1	2	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	3	1			0.00	0.00			1	4	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	5	1					0.00	0.00	1	6	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	7	1	0.00	0.00					1	8	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	9	1			0.00	0.00			1	10	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	11	1					0.00	0.00	1	12	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	13	1	0.00	0.00					1	14	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	15	1				0.00	0.00		1	16	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	17	1						0.00	0.00	1	18	20	--	S-PARE	--		--
--	S-PARE	--	20	A	19	1	0.00	0.00					1	20	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	21	1				0.00	0.00		1	22	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	23	1					0.00	0.00	1	24	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	25	1	0.00	0.00					1	26	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	27	1				0.00	0.00		1	28	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	29	1						0.00	0.00	1	30	20	--	S-PARE	--		--
--	S-PARE	--	20	A	31	1	0.00	0.00					1	32	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	33	1				0.00	0.00		1	34	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	35	1					0.00	0.00	1	36	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	37	1	0.00	0.00					1	38	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	39	1				0.00	0.00		1	40	20	--	S-PARE	--		--	
--	S-PARE	--	20	A	41	1						0.00	0.00	1	42	20	--	S-PARE	--		--
LOAD																					
L LIGHTS		0		V		A		0.00%		0		V		A		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.					
H HEATING		0		V		A		0.00%		0		V		A		2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.					
C COOLING		0		V		A		0.00%		0		V		A		3. ALL BUSING, INCL GND AND NEUTRAL, SHALL BE COPPER.					
V VENTILATION		0		V		A		0.00%		0		V		A		4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.					
M MOTORS		0		V		A		0.00%		0		V		A		5. PROVIDE HINGED DOOR-UP DOOR WITH OUTER DOOR LOCK.					
K KITCHEN		0		V		A		0.00%		0		V		A		6. PROVIDE METAL DIRECTORY FRAME.					
R RECEPTACLES		0		V		A		0.00%		0		V		A							
WH WATER HEATER		0		V		A		0.00%		0		V		A							
MI MISC.		0		V		A		0.00%		0		V		A							
S S-PARE		0		V		A		0.00%		0		V		A							
E ELEVATOR		0		V		A		0.00%		0		V		A							
TOTAL KVA (CONNECTED): 0.00 kVA																					
TOTAL PER PHASE (CONNECTED)																					
TOTAL KVA (DEMAND): 0.00 kVA		0.0		A		0.0		A		0.0		A		0.0		LOAD CLASSIFICATION ABBREVIATIONS (CONT.)					
F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.																					
TOTAL AMP (CONNECTED): 0		A																			
TOTAL AMP (DEMAND): 0		A																			

VOLTAGE: 208Y/120 3Ø										PANEL: LS				FED FROM: MDP	
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 100 A										MAIN TYPE: MLO PHASE: 3 WIRE: 4				MFR: AIC: 42 KAIC	
LC Abb#	Load Served	Wire	Trp	Øtd No	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Øtd No	Trp	Wire	Load Served	LC Abb#	
M..	FACP	12	20 A	1	0.00	0.44				1	2	20 A	12	LTG - IN-STEP	
LI..	LTG - WALL STARBUCKS	12	20 A	3	1		0.45	0.88		1	4	20 A	12	LTG - WALL DINING	
LI..	LTG - ELEC/STS BOILER/MDF SEC	12	20 A	5	1			0.69	0.75	1	6	20 A	12	LTG - WALL DINING	
LI..	LTG - BUILDERS EXTENDER	12	20 A	7	1	1.09	1.61			1	8	20 A	12	LTG - EMERGENCY	
LI..	LTG - WALL DINING	12	20 A	9	1		1.24	0.00		1	10	20 A	--	S-PARE	
LI..	LTG - WALL DINING	12	20 A	11	1			1.32	0.00	1	12	20 A	--	S-PARE	
--	S-PARE	--	20 A	13	1	0.00	0.00			1	14	20 A	--	S-PARE	
--	S-PARE	--	20 A	15	1		0.00	0.00		1	16	20 A	--	S-PARE	
--	S-PARE	--	20 A	17	1			0.00	0.00	1	18	20 A	--	S-PARE	
--	S-PARE	--	20 A	19	1	0.00	0.00			1	20	20 A	--	S-PARE	
--	S-PARE	--	20 A	21	1		0.00	0.00		1	22	20 A	--	S-PARE	
--	S-PARE	--	20 A	23	1			0.00	0.00	1	24	20 A	--	S-PARE	
--	SPACE ONLY	--	--	25	--	0.00	0.00			--	26	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	27	--		0.00	0.00		--	28	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	29	--			0.00	0.00	--	30	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	31	--	0.00	0.00			--	32	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	33	--		0.00	0.00		--	34	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	35	--			0.00	0.00	--	36	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	37	--	0.00	0.00			--	38	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	39	--		0.00	0.00		--	40	--	--	SPACE ONLY	
--	SPACE ONLY	--	--	41	--			0.00	0.00	--	42	--	--	SPACE ONLY	
LOAD		Connected Load		Demand Factor		Estimated Demand		NOTES:							
L	LIGHTS	8468 VA		125.00%		10585 VA		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.							
H	HEATING	0 VA		0.00%		0 VA		2. SHALL BE FULLY RATED - SERIES RATINGS ARE ALLOWED							
C	COOLING	0 VA		0.00%		0 VA		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.							
V	VENTILATION	0 VA		0.00%		0 VA		4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.							
M	MOTORS	0 VA		0.00%		0 VA		5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.							
K	KITCHEN	0 VA		0.00%		0 VA		6. PROVIDE METAL DIRECTORY FRAME							
R	RECEPTACLES	0 VA		0.00%		0 VA									
WH	WATER HEATER	0 VA		0.00%		0 VA									
M	MISC.	0 VA		0.00%		0 VA									
S	SEPARATOR	0 VA		0.00%		0 VA									
E	ELEVATOR	0 VA		0.00%		0 VA									
TOTAL KVA (CONNECTED):		8.47 KVA		TOTAL PER PHASE: (CONNECTED)				LOAD CLASSIFICATION ABBREVIATIONS (CONT.)							
TOTAL KVA (DEMAND):		10.58 KVA		26.5 A		21.4 A		23.1 A		F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY					
TOTAL AMP. (CONNECTED):		24 A													
TOTAL AMP. (DEMAND):		29 A													

VOLTAGE: 208Y/120 3Ø										PANEL: GM					FED FROM: MDP																																																								
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 400 A										MAIN TYPE: MLO PHASE: 3 WIRE: 4					MFR: AIC, 42 KAIC																																																								
LC Abbr	Load Served	Wire	Tripp	Pole	A (LOAD KVA)		B (LOAD KVA)		C (LOAD KVA)		Pole	Tripp	Wire	Load Served	LC Abbr																																																								
R	REC - MDF	12	20 A	1	1	0.18	0.12				1	2	20 A	12	COOLER SWING DOOR (A15)	M.																																																							
RE C	REC - MDF	12	20 A	3	2			0.25	0.12			1	4	20 A	12	FREEZER SWING DOOR (A16)	M.																																																						
R	REC - CIRCULATION RECEPTION	12	20 A	9	1	0.36	0.25			0.25	0.22	1	6	20 A	12	COOLER EVAPORATOR COIL (A15.1)	KL																																																						
R	REC - MDF	12	20 A	9				0.36	0.22			1	8	20 A	12	REFRIGERATOR (D14)	KL																																																						
R	REC - SEC	12	20 A	9	1	0.18	0.65					1	10	20 A	12	COOLER EVAPORATOR COIL (A15.1)	KL																																																						
R	REC - SEC	12	20 A	11						0.36	0.43	1	12	20 A	12	REFRIGERATOR (A15)	KL																																																						
R	REC - SEC	12	20 A	13	1							1	14	20 A	12	FREEZER (B16)	KL																																																						
R	REC - SEC	12	20 A	15	1			0.36	0.35			1	16	20 A	12	REFRIGERATOR (D2)	KL																																																						
M	AV RACK - 1130	12	20 A	17						1.00	0.65	1	18	20 A	12	REFRIGERATOR (B15)	KL																																																						
M	AV RACK - 1104C	--	20 A	19	1	1.00	1.36					1	20	20 A	12	REFRIGERATOR ROLL IN (A94)	KL																																																						
--	SPARE	--	20 A	21				0.00	0.53			1	22	20 A	12	REF/FREEZER (C12)	KL																																																						
--	SPARE	--	20 A	23						0.00	0.00	1	24	20 A	--	SPARE	--																																																						
--	SPARE	--	20 A	25	1	0.00	1.42					1	26	20 A	12	REFRIGERATOR (D48)	KL																																																						
--	SPARE	--	20 A	27	1			0.00	0.68			1	28	20 A	12	REFRIGERATOR (B15)	KL																																																						
--	SPARE	--	20 A	29	1					0.00	0.44	2	30	20 A	12	FREEZER SLIDING DOOR (A16)	MIS C																																																						
--	SPARE	--	20 A	31	1	0.00	0.44					2	32	20 A	12	FREEZER SLIDING DOOR (A15)	MIS C																																																						
--	SPARE	--	20 A	33	1							2	34	20 A	--	SPARE	--																																																						
--	SPARE	--	20 A	35	1					0.00	0.44	36	36	20 A	12	COOLER SLIDING DOOR (A15)	MIS C																																																						
--	SPARE	--	20 A	37	1	0.00	0.00					1	38	20 A	--	SPARE	--																																																						
--	SPARE	--	20 A	39	1			0.00	1.84			2	40	20 A	10	FREEZER EVAPORATOR COIL (A16.1)	MIS C																																																						
--	SPARE	--	20 A	41	1					0.00	1.84	2	42	20 A	--	SPARE	--																																																						
<table><tr><th>LOAD</th><th>Connected Load</th><th>Demand Factor</th><th>Estimated Demand</th><th>NOTES:</th></tr><tr><td>L LIGHTS</td><td>0 VA</td><td>0.00%</td><td>0 VA</td><td rowspan="6">1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME.</td></tr><tr><td>H HEATING</td><td>0 VA</td><td>0.00%</td><td>0 VA</td></tr><tr><td>C COOLING</td><td>0 VA</td><td>0.00%</td><td>0 VA</td></tr><tr><td>V VENTILATION</td><td>0 VA</td><td>0.00%</td><td>0 VA</td></tr><tr><td>M MOTORS</td><td>0 VA</td><td>0.00%</td><td>0 VA</td></tr><tr><td>K KITCHEN</td><td>6320 VA</td><td>65.00%</td><td>4108 VA</td></tr><tr><td>R RECEPTACLES</td><td>2300 VA</td><td>100.00%</td><td>2300 VA</td><td></td></tr><tr><td>WH WATER HEATER</td><td>0 VA</td><td>0.00%</td><td>0 VA</td><td></td></tr><tr><td>MI MIS C</td><td>7680 VA</td><td>100.00%</td><td>7680 VA</td><td></td></tr><tr><td>S Spare</td><td>0 VA</td><td>0.00%</td><td>0 VA</td><td></td></tr><tr><td>E ELEVATOR</td><td>0 VA</td><td>0.00%</td><td>0 VA</td><td></td></tr></table>																	LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:	L LIGHTS	0 VA	0.00%	0 VA	1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME.	H HEATING	0 VA	0.00%	0 VA	C COOLING	0 VA	0.00%	0 VA	V VENTILATION	0 VA	0.00%	0 VA	M MOTORS	0 VA	0.00%	0 VA	K KITCHEN	6320 VA	65.00%	4108 VA	R RECEPTACLES	2300 VA	100.00%	2300 VA		WH WATER HEATER	0 VA	0.00%	0 VA		MI MIS C	7680 VA	100.00%	7680 VA		S Spare	0 VA	0.00%	0 VA		E ELEVATOR	0 VA	0.00%	0 VA	
LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:																																																																			
L LIGHTS	0 VA	0.00%	0 VA	1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME.																																																																			
H HEATING	0 VA	0.00%	0 VA																																																																				
C COOLING	0 VA	0.00%	0 VA																																																																				
V VENTILATION	0 VA	0.00%	0 VA																																																																				
M MOTORS	0 VA	0.00%	0 VA																																																																				
K KITCHEN	6320 VA	65.00%	4108 VA																																																																				
R RECEPTACLES	2300 VA	100.00%	2300 VA																																																																				
WH WATER HEATER	0 VA	0.00%	0 VA																																																																				
MI MIS C	7680 VA	100.00%	7680 VA																																																																				
S Spare	0 VA	0.00%	0 VA																																																																				
E ELEVATOR	0 VA	0.00%	0 VA																																																																				
TOTAL KVA (CONNECTED):		16.73 kVA	TOTAL PER PHASE (CONNECTED)				LOAD CLASSIFICATION ABBREVIATIONS (CONT.)																																																																
TOTAL KVA (DEMAND):		14.52 kVA	50.3 A	42.9 A	47.5 A	F - FEEDER FOR DOWN STREAM PANEL, LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.																																																																	
TOTAL AMP (CONNECTED):		46 A																																																																					
TOTAL AMP (DEMAND):		40 A																																																																					

[illegible]

PERKINS —
EASTMAN
520 West Sixth Street
Charlotte, NC 28202
T. +1 704 840 0501
F. +1 704 362 4802

Owner:
UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

Construction Manager:
Construction Manager Name
Construction Manager Address

Civil / Site:
McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Landscape:
McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Structural:
LHC Structural Engineers
5430 Wade Park Blvd., Suite 400

Mechanical & Plumbing:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

VOLTAGE: 208Y/120 3Ø										PANEL: KP1					FED FROM: MDP	
MOUNTING: SURFACE					MAIN TYPE: MCB					MPR:						
ENCLOSURE: NEMA1					PHASE: 3					FEEDER FROM:						
MAIN: 1000 A					WIRE: 4					AIC: 42 KAIC						
LC Abbr	Load Served	Wire	Tripp	Qct No	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Qct No	Tripp	Wire	Load Served	LC Abbr		
KIT CH EN	OVEN (A112)	6	50 A	3	1	4.68 7.33	4.68 7.33		3	4	80 A	3	LOAD CENTER - B31.1	KIT CH EN		
--	SHUNT - OVEN A112	--	20 A	7	1	0.00 7.00		4.68 7.33	6	8						
KIT CH EN	OVEN (A112)	6	50 A	11	3		4.68 7.00		3	10	80 A	3	LOAD CENTER - C51.1	KIT CH EN		
--	SHUNT - OVEN A112	--	20 A	13	1	4.68 13.67			12	14						
KIT CH EN	COMBI OVEN (B6)	2	90 A	19	3	8.25 5.00	0.00 13.67	8.25 13.67	3	16	150 A	1/0	LOAD CENTER - D21.1	KIT CH EN		
--	SHUNT - COMBI OVEN (B6)	--	20 A	21	1		8.25 5.00		18	20						
KIT CH EN	COMBI OVEN (D5)	2	90 A	23	1	8.25 18.42		0.00 5.00	24	26	60 A	4	LOAD CENTER - D31.1	KIT CH EN		
--	SHUNT - COMBI OVEN (D5)	--	20 A	25	1		8.25 16.24		28	30				Oth er: R		
--	SHUNT - COMBI OVEN (D5)	--	30 A	27	3			8.25 16.04	3	28	200 A	3/0	PANEL-KP2			
--	SPACE ONLY	--	33	31	1	0.00 13.40			32					Oth er: R		
--	SPACE ONLY	--	35	--	--	0.00 12.81			3	34	200 A	3/0	PANEL-KP3			
--	SPACE ONLY	--	37	--	--	0.00 4.17		0.00 13.10	36	38						
--	SPACE ONLY	--	39	--	--		0.00 4.24		40	200 A	3/0	PANEL-KP5		RE GE P.		
--	SPACE ONLY	--	41	--	--			0.00 2.39	42							
LOAD Connected Load Demand Factor Estimated Demand NOTES:																
L LIGHTS	30 VA			125.00%		38 VA			1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.							
H HEATING	0 VA			0.00%		0 VA			2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.							
C COOLING	0 VA			0.00%		0 VA			3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.							
V VENTILATION	0 VA			0.00%		0 VA			4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.							
M MOTORS	0 VA			0.00%		0 VA			5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.							
K KITCHEN	231728 VA			65.00%		150622 VA			6. PROVIDE METAL DIRECTORY FRAME.							
R RECEPTACLES	47170 VA			100.00%		47170 VA										
WH/WATER HEATER	0 VA			0.00%		0 VA										
M MISC.	16090 VA			100.00%		16090 VA										
S Spare	0 VA			0.00%		0 VA										
E ELEVATOR	0 VA			0.00%		0 VA										
TOTAL KVA (CONNECTED): 277.37...					TOTAL PER PHASE: (CONNECTED)					LOAD CLASSIFICATION ABBREVIATIONS (CONT.)						
TOTAL KVA (DEMAND): 196.27...					792.6 A 770.1 A 753.2 A					F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.						
TOTAL AMP. (CONNECTED): 770 A																
TOTAL AMP. (DEMAND): 545 A																

VOLTAGE: 208Y/120 3Ø										PANEL: KP4				FED FROM: MDP	
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 1000 A										MAIN TYPE: MLO PHASE: 3 WIRE: 4				MFR: TYPE: AIC: 42 KAIC	
LC Abbr	Load Served	Wire	Tripp	Ok't	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Ok't	Tripp	Wire	Load Served	LC Abbr	
KIT CH EN	LOAD CENTER - A53	500	400 A	1	3	35.00	4.27			2				KIT CH EN	
--	--	--	--	5						4					
--	-- SHUNT - LOAD CENTER (A53)	--	20 A	7	1	0.00	5.71			6	50 A	6	BLOWER DRYER (E21.1)		
KIT CH EN	ROTISSERIE (C23)	10	30 A	11	3		2.73	5.71		8	60 A	4	POT WASH MACHINE(E32)	KIT CH EN	
--	--	--	--	13		2.73	2.34			12				KIT CH EN	
--	-- SHUNT - ROTISSERIE (C23)	--	20 A	15			0.00	2.34		13	30 A	10	BLAST CHILLER/FREEZER (A102)	KIT CH EN	
--	--	--	--	17						16				KIT CH EN	
KIT CH EN	PASTA COOKER (D11)	6	50 A	19	3	4.20	21.60			20				KIT CH EN	
--	--	--	--	21			4.20	21.60		22	250 A	250	DISH MACHINE (E21)	KIT CH EN	
--	-- SHUNT - PASTA COOKER (D11)	--	20 A	23	1			0.00	21.60	24				KIT CH EN	
KIT CH EN	COFFEE BREWER (A96)	8	40 A	27	2	3.05	1.56			26				KIT CH EN	
--	--	--	--	29			3.05	1.56		28	20 A	12	ICE MACHINE (A20)	MISC C	
--	-- SPACE ONLY	--	--	31		0.00	1.20		0.00	30				KIT CH EN	
--	-- SPACE ONLY	--	--	33			0.00	1.20		32				KIT CH EN	
--	-- SPACE ONLY	--	--	35				0.00	1.20	34	20 A	12	MIXER (D47)	KIT CH EN	
--	-- SPACE ONLY	--	--	37		0.00	0.00			36			-- SPARE	--	
--	-- SPACE ONLY	--	--	39			0.00	0.00		--	1	40	20 A	-- SPARE	
--	-- SPACE ONLY	--	--	41					0.00	0.00	1	42	20 A	-- SPARE	
LOAD Connected Load Demand Factor Estimated Demand NOTES:															
L	LIGHTS	0 VA	0.00%	0 VA		0 VA		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.							
H	HEATING	0 VA	0.00%	0 VA		0 VA		2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.							
C	COOLING	0 VA	0.00%	0 VA		0 VA		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.							
V	VENTILATION	0 VA	0.00%	0 VA		0 VA		4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.							
M	MOTORS	0 VA	0.00%	0 VA		0 VA		5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTTER DOOR LOCK.							
K	KITCHEN	237273 VA	65.00%	154227 VA		0 VA		6. PROVIDE METAL DIRECTORY FRAME.							
R	RECEPTACLES	0 VA	0.00%	0 VA		0 VA									
WH	WATER HEATER	0 VA	0.00%	0 VA		0 VA									
M	MISC.	4680 VA	100.00%	4680 VA		0 VA									
S	Spare	0 VA	0.00%	0 VA		0 VA									
E	ELEVATOR	0 VA	0.00%	0 VA		0 VA									
TOTAL KVA (CONNECTED): 241.95... TOTAL PER PHASE: (CONNECTED) LOAD CLASSIFICATION ABBREVIATIONS (CONT.)															
TOTAL KVA (DEMAND): 158.91... 684.5 A 684.5 A 655.1 A F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.															
TOTAL AMP (CONNECTED): 672 A															
TOTAL AMP (DEMAND): 441 A															

VOLTAGE: 208Y/120 3Ø

MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 200 A

PANEL: KP2

MAIN TYPE: MLO
PHASE: 3
WIRE: 4

FED FROM: KP1

MFR: TYPE:
AIC: 42 KAIC

LC Abbr	Load Served	Wire	2p	1p	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	1p	2p	Wire	Load Served	LC Abbr			
KL	REC - COUNTER (B1)	12	20	A	1	0.36	0.96					1	2	20			
OL	EXHAUST HOOD (B3)	12	20	A	3		1.92	1.80			1	4	20				
KL	HEATED HOLDING CABINET (B14)	12	20	A	5	1		1.80	1.80	1	6	20					
KL	GAS GRILL CONTROL (B4)	12	20	A	7	1	1.20	0.18			1	8	20				
--	SHUNT - GAS GRILL CONTROL (B4)	--	20	A	9		0.00	0.54			1	10	20				
KL	FRYER WIFLER (B8)	12	20	A	11	1		0.92	0.28	1	12	20					
--	SHUNT - FRYER WIFLER (B8)	--	20	A	13	1	0.00	0.03			1	14	20				
OL	PURE SUPPRESSION SYS (B3.2)	12	20	A	15	1		1.92	1.80		1	16	20				
KL	REC-WORKING COUNTER	12	20	A	17	1		1.00	1.80	1	18	20					
KL	HEATED HOLDING CABINET (B14)	12	20	A	19	1	1.80	0.36			1	20	20				
KL	HOOD COUNTER (C13.3)	12	20	A	21	1		0.84	0.34		2	22	20				
KL	REC-WORK COUNTER (C43)	12	20	A	23	1		1.00	0.34	2	24	20					
KL	PURE SUPPRESSION SYS (C13.2)	12	20	A	25	1	1.92	0.72			1	26	20				
KL	REFRIGERATED PREP TABLE (C42)	12	20	A	27	1	1	0.80	0.35		1	28	20				
R	REC - KITCHEN 1118	12	20	A	29	1		1.06	1.32	1	30	20					
OL	EXHAUST HOOD (C13)	12	20	A	31	1	1.92	1.44			1	32	20				
OL	EXHAUST HOOD (C13)	12	20	A	33	1		1.92	1.92		1	34	20				
KL	REC-WORK COUNTER (C41)	12	20	A	35	1		1.00	1.92	1	36	20					
OL	EXHAUST HOOD (B3.1)	12	20	A	37	1	1.92	5.61			1	38	20				
KL	FRYER WIFLER (B8)	12	20	A	39	1		0.89	1.20		1	40	20				
--	SHUNT - FRYER WIFLER (B8)	--	20	A	41	1				0.00	1.80	1	42	20			
LOAD		Connected Load				Demand Factor				Estimated Demand				NOTES:			
L	LIGHTS	30 VA				125.00%				38 VA				1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR WITH LOCK AND OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME.			
H	HEATING	0 VA				0.00%				0 VA							
C	COOLING	0 VA				0.00%				0 VA							
V	VENTILATION	0 VA				0.00%				0 VA							
M	MOTORS	0 VA				0.00%				0 VA							
K	KITCHEN	24570 VA				65.00%				15971 VA							
R	RECEPTACLES	700 VA				100.00%				700 VA							
WH	WATER HEATER	0 VA				0.00%				0 VA							
M	MISC.	4420 VA				100.00%				4420 VA							
S	Spare	0 VA				0.00%				0 VA							
E	ELEVATOR	0 VA				0.00%				0 VA							
TOTAL KVA (CONNECTED):		50.69 KVA				TOTAL PER PHASE (CONNECTED)								LOAD CLASSIFICATION ABREVIATIONS (CONT.)			
TOTAL KVA (DEMAND):		42.10 KVA				153.8 A				135.5 A				133.6 A			
TOTAL AMP (CONNECTED):		141 A												F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.			
TOTAL AMP (DEMAND):		117 A															

VOLTAGE: 208Y/120/3						PANEL: KP5							FED FROM: KP1	
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 200 A						MAIN TYPE: MLO PHASE: 3 WIRE: 4							MFR: TYPE: AIC: 42 KAIC	
LC AIR	Load Served	Wire	Trip	Ckt No	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Ckt No	Trip	Wire	Load Served	LC AIR
-- SPARE		--	20 A	1	1	0.00	0.38			2	2			
R REC - DISH ROOM DISH DROP		12	20 A	3	1		0.54	0.38		3	4	20 A	FOOD WASTE COLLECTOR	
KI REFRIGERATED EQUIP (C21.1)		12	20 A	5	1			0.62	0.38	6	8			
-- SHUNT - REFRIGERATED EQUIP....		--	20 A	7	1	0.00	0.38			16	16			
KI REFRIGERATED BASE (C16.1)		12	20 A	9	1		0.62	0.38		3	10	20 A	FOOD WASTE COLLECTOR	
-- SUNT - REFRIGERATED BASE (C16.1)		--	20 A	11	1			0.00	0.38	12	12			
KI FRYER BATTERY WIFILTER (C14)		12	20 A	13	1	1.00	1.56			2	14	20 A	CONVEYOR CNTRL PNL (E16.1)	
-- SHUNT - FRYER BATTERY (C14)		--	20 A	15	1		0.00	1.56		16	16			
KI FRYER BATTERY WIFILTER (C14)		12	20 A	17	1			1.00	0.00	1	18	20 A	-- SPARE	
-- SHUNT - FRYER BATTERY (C14)		--	20 A	19	1	0.00	0.00			1	20 A	-- SPARE		
KI HEAT LAMP (C15)		12	20 A	21	1		0.76	0.00		1	22	20 A	-- SPARE	
-- SHUNT-HEAT LAMP (C15)		--	20 A	23	1			0.00	0.00	1	24	20 A	-- SPARE	
KI SMOKER (C24)		12	20 A	25	1	0.84	0.00			1	26	20 A	-- SPARE	
-- SHUNT - OVEN SMOKER (C24)		--	20 A	27	1		0.00	0.00		1	28	20 A	-- SPARE	
-- SPARE		--	20 A	29	1			0.00	0.00	1	30	20 A	-- SPARE	
-- SPARE		--	20 A	31	1	0.00	0.00			1	32	20 A	-- SPARE	
-- SPARE		--	20 A	33	1		0.00	0.00		1	34	20 A	-- SPARE	
-- SPARE		--	20 A	35	1			0.00	0.00	1	36	20 A	-- SPARE	
-- SPARE		--	20 A	37	1	0.00	0.00			1	38	20 A	-- SPARE	
-- SPARE		--	20 A	39	1		0.00	0.00		1	40	20 A	-- SPARE	
-- SPARE		--	20 A	41	1			0.00	0.00	1	42	20 A	-- SPARE	
L LIGHTS	0 VA		0.00%			0 VA							1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.	
H HEATING	0 VA		0.00%			0 VA							2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED	
C COOLING	0 VA		0.00%			0 VA							3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER	
V VENTILATION	0 VA		0.00%			0 VA							4. ALL INCOMING PANEL & BRKR LGSS SHALL MATCH FEEDERS.	
M MOTORS	0 VA		0.00%			0 VA							5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.	
K KITCHEN	10256 VA		65.00%			6666 VA							6. PROVIDE METAL DIRECTORY FRAME.	
R RECEPTACLES	721 VA		100.00%			540 VA								
WH WATER HEATER	0 VA		0.00%			0 VA								
MI MISC.	0 VA		0.00%			0 VA								
S S	0 VA		0.00%			0 VA								
E ELEVATOR	0 VA		0.00%			0 VA								
TOTAL KVA (CONNECTED):		10.80 KVA		TOTAL PER PHASE (CONNECTED)				LOAD CLASSIFICATION ABBREVIATIONS (CONT.)						
TOTAL KVA (DEMAND):		7.21 KVA		TOTAL PER PHASE (DEMAND):				F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.						
TOTAL AMP (CONNECTED):		30 A												
TOTAL AMP (DEMAND):		20 A												

VOLTAGE: 208Y/120 3Ø										PANEL: KP3										FED FROM: KP1			
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 200 A										MAIN TYPE: MLO PHASE 3 WIRE: 4										MFR: TYPE: AUC: 42 KAIC			
LC Abbr	Load Served	Wire	2tp	3tp	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	1	2	3tp	Wire	Load Served	LC Abbr								
KL TOASTER (D51)		12	20	A	1	1.80	0.72			1	2	20	A	12 REC-QUEUE 1102	KL								
KL MICROWAVE (D53)		12	20	A	3		2.00	0.72		1	4	20	A	12 REC - KITCHEN COUNTER 1118	KL								
KL FOOD SHIELD (D50.2)		12	20	A	5			0.52	1.90	1	6	20	A	12 KITCHEN COUNTER (A51)	KL								
M ICE CREAM CHEST (D70)		12	20	A	7	1	0.42	0.72		1	8	20	A	12 REC - KITCHEN COUNTER 1118	KL								
KL TOASTER (D51)		12	20	A	9		1.80	0.72		1	10	20	A	12 REC - KITCHEN COUNTER 1118	KL								
KL UC REFRIGERATOR (D52)		12	20	A	11	1		0.30	0.36	1	12	20	A	12 REC - KITCHEN COUNTER 1118	KL								
M UC REFRIGERATOR (D72)		12	20	A	13	1	0.30	0.36		1	14	20	A	12 REC - KITCHEN COUNTER 1118	KL								
R FOOD SHIELD W/LIGHT (D71.3)		12	20	A	15	1		0.10	0.90		1	16	20	A	12 REC - STORAGE & KITCHEN	R							
M REC-QUEUE 1102		12	20	A	17	1			0.54	0.36	1	18	20	A	12 REC - COUNTER A41	KL							
M TEA BREWER (D82)		12	20	A	19	1	1.73	1.08		1	20	20	A	12 REC - KITCHEN 1118	R								
M TEA BREWER (D82)		12	20	A	21	1		1.73	0.36		1	22	20	A	12 REC - KITCHEN COUNTER 1118	KL							
M JUICE DISPENSER (D81)		12	20	A	23	1		0.72	1.56	1	24	20	A	12 REFRIGERATED PREP TABLE (D49)	KL								
M SOD/ICE DISPENSER (D83.2)		12	20	A	25	1	0.36	1.73		1	26	20	A	12 PRESSURE WASHER (A2)	M								
CL FIRE SUPPRESSION SYS (A111.1)		12	20	A	27	1		1.92	0.30		1	28	20	A	12 CO SYSTEM (A12.2)	M							
M BAG-N-BOX RACK (A13)		12	20	A	29	1			1.92	3.00	1	30	35	A	8 HOT/COLD PAN (D50.1)								
M BAG-N-BOX RACK (A13)	-- SPARE	12	20	A	31	1	1.92	0.34			2	32	20	A	12 ICE MACHINE (D83)	RE							
CL EXHAUST HOOD (A111)	-- SPARE	12	20	A	35	1			1.92	0.00	1	36	20	A	-- SPARE	--							
KL REC - DROP CORD (A40.1)		12	20	A	37	1	1.92	0.00			1	38	20	A	-- SPARE	--							
KL REC - DROP CORD (A40.1)	-- SPARE	12	20	A	39	1		1.92	0.00		1	40	20	A	-- SPARE	--							
-- SPARE	-- SPARE	--	20	A	41	1			0.00	0.00	1	42	20	A	-- SPARE	--							
LOAD		Connected Load		Demand Factor		Estimated Demand		NOTES:															
L LIGHTS	0 VA	0.00%		0 VA		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.																	
H HEATING	0 VA	0.00%		0 VA		2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.																	
C COOLING	0 VA	0.00%		0 VA		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.																	
V VENTILATION	0 VA	0.00%		0 VA		4. ALL INCOMING PANEL & BRRK LUGS SHALL MATCH FEEDERS.																	
M MOTORS	0 VA	0.00%		0 VA		5. PROVIDE HINGED DOOR/COVER WITH LATCH OUTER DOOR LOCK.																	
K KITCHEN	20320 VA	65.00%		13208 VA		6. PROVIDE METAL DIRECTORY FRAME.																	
R RECEPTACLES	3470 VA	100.00%		3470 VA																			
WH WATER HEATER	0 VA	0.00%		0 VA																			
M MISC.	11670 VA	100.00%		11670 VA																			
S SPARE	0 VA	0.00%		0 VA																			
E ELEVATOR	0 VA	0.00%		0 VA																			
TOTAL KVA (CONNECTED): 39.30 KVA		TOTAL PER PHASE: (CONNECTED)				LOAD CLASSIFICATION ABBREVIATIONS (CONT.)																	
TOTAL KVA (DEMAND): 32.19 KVA		112.0 A 106.7 A 109.5 A				F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.																	
TOTAL AMP (CONNECTED): 109 A																							
TOTAL AMP (DEMAND): 89 A																							

VOLTAGE: 208Y/120/30

MOUNTING: SURFACE

ENCLOSURE: NEMA1

MAIN: 400 A

PANEL: SB1

MAIN TYPE: MLO

PHASE: 3

WIRE: 4

FED FROM: MDP

MFR:

TYPE:

AIC: 42KAIC

LC Abbr	Wire	Tripp	Ok to Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Ok to Trip	Wire	Load Served	LC Abbr
M. COFFEE GRINDER (F14)	12	20	A	1	1	1.56	3.00		2	2	MIS. C.
M. REFRIGERATOR UC (F8)	12	20	A	3	1		0.46	3.00	4	40 A	MIS. C.
M. COFFEE BREWER (F16)	12	20	A	5	1			0.09	0.00	1	MIS. C.
M. COLD BEVERAGE TAP (F9)	12	20	A	7	1	1.40	1.33		2	8	MIS. C.
M. NITRO TAP (F2)	12	20	A	9	1		1.30	1.33		10	MIS. C.
M. REFRIGERATOR UC (F7)	12	20	A	11	1		0.46	0.50	12	24	MIS. C.
M. GLASS RINSER (F10)	12	20	A	13	1	1.92	0.50		2	14	MIS. C.
M. BLENDER (F6)	12	20	A	15	1		1.92	3.00		16	MIS. C.
M. BLENDER (F6)	12	20	A	17	1			1.92	3.00	18	MIS. C.
M. BLENDER (F3)	12	20	A	19	1	1.92	3.12		2	20	MIS. C.
M. COFFEE BREWER (F16)	12	20	A	21	1		1.92	3.12		22	MIS. C.
M. COFFEE BREWER (F16)	12	20	A	23	1			19.20	0.27	1	MIS. C.
M. REFRIGERATOR (F18)	12	20	A	25	1	0.46	4.17		2	26	MIS. C.
M. REFRIGERATOR UC (F25)	12	20	A	27	1		0.36	4.17		28	MIS. C.
M. REFRIGERATOR UC (F25)	12	20	A	29	1			0.46	0.00	1	MIS. C.
R. POS PRINTER (F23.1)	12	20	A	31	1	1.92	3.12		2	32	MIS. C.
R. POS SYSTEM (F23)	12	20	A	33	1		1.92	3.12		34	MIS. C.
R. POS SYSTEM (F23.1)	12	20	A	35	1			1.92	0.00	1	MIS. C.
R. POS PRINTER (F23.1)	12	20	A	37	1	1.92	3.61		2	38	MIS. C.
LI. SIGNAGE	12	20	A	39	1		0.20	3.61		3	RECEP. F.
LI. SIGNAGE	12	20	A	41	1			0.20	3.94	42	RECEP. F.

LOAD

	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	400 VA	125.00%	500 VA	1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
H HEATING	0 VA	0.00%	0 VA	2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
C COOLING	0 VA	0.00%	0 VA	3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER
V VENTILATION	0 VA	0.00%	0 VA	4. ALL INDOORING PANELS & RACKS SHALL MATCH FEEDERS.
M MOTORS	0 VA	0.00%	0 VA	5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
K KITCHEN	0 VA	0.00%	0 VA	6. PROVIDE METAL DIRECTORY FRAME.
R RECEPTACLES	9840 VA	100.00%	9840 VA	
WH WATER HEATER	0 VA	0.00%	0 VA	
MI MISC.	81100 VA	100.00%	81100 VA	
S Sump	0 VA	0.00%	0 VA	
E ELEVATOR	0 VA	0.00%	0 VA	

TOTAL KVA (CONNECTED): 91.34 kVA

TOTAL PER PHASE (CONNECTED)

TOTAL KVA (DEMAND): 91.44 kVA

250.3 A

245.3 A

267.0 A

TOTAL AMP. (CONNECTED): 254 A

TOTAL AMP. (DEMAND): 254 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)

F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

VOLTAGE: 208Y/120 3Ø										PANEL: SB2					FED FROM: SB1														
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 200 A										MAIN TYPE: MLO PHASE: 3 WIRE: 4					MFR: TYPE: AIC: 42 KAIC														
LC Abb	Load Served				Wire	Trp	Opt No	Pole	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	Pole	Opt No	Trp	Wire	Load Served	LC Abb												
M	REFRIGERATOR (F31)				12	20	A	1	1	0.44	3.17		2	2	4	8	DISHWASHER (F35)	MIS C											
M	REFRIGERATOR (F30)				12	20	A	3	1		0.44	3.17		2	4	8													
M	REFRIGERATOR (F32)				12	20	A	5	1			0.68	0.90	1	6	20	REC - STARBUCKS	R.											
--	SPARE				--	20	A	7	1	0.00	0.00			1	8	20	-- SPARE	--											
--	SPARE				--	20	A	9	1		0.00	0.00		1	10	20	-- SPARE	--											
R	REC - STARBUCKS & EXTERIOR				12	20	A	11	1			1.26	1.10	1	12	20	FREEZER, REACH IN (F41)	M.											
--	SPARE				--	20	A	13	1	0.00	0.00			1	14	20	-- SPARE	--											
--	SPARE				--	20	A	15	1			0.00	0.00	1	16	20	-- SPARE	--											
--	SPARE				--	20	A	17	1			0.00	0.00	1	18	20	-- SPARE	--											
--	SPARE				--	20	A	19	1	0.00	0.00			1	20	20	-- SPARE	--											
--	SPARE				--	20	A	21	1		0.00	0.00		1	22	20	-- SPARE	--											
--	SPARE				--	20	A	23	1			0.00	0.00	1	24	20	-- SPARE	--											
--	SPARE				--	20	A	25	1	0.00	0.00			1	26	20	-- SPARE	--											
--	SPARE				--	20	A	27	1			0.00	0.00	1	28	20	-- SPARE	--											
--	SPARE				--	20	A	29	1			0.00	0.00	1	30	20	-- SPARE	--											
--	SPARE				--	20	A	31	1	0.00	0.00			1	32	20	-- SPARE	--											
--	SPARE				--	20	A	33	1		0.00	0.00		1	34	20	-- SPARE	--											
--	SPARE				--	20	A	35	1			0.00	0.00	1	36	20	-- SPARE	--											
--	SPARE				--	20	A	37	1	0.00	0.00			1	38	20	-- SPARE	--											
--	SPARE				--	20	A	39	1		0.00	0.00		1	40	20	-- SPARE	--											
--	SPARE				--	20	A	41	1			0.00	0.00	1	42	20	-- SPARE	--											
LOAD																													
Connected Load Demand Factor Estimated Demand NOTES:																													
L	LIGHTS				0 VA				0.00%				0 VA				1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.												
H	HEATING				0 VA				0.00%				0 VA				2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED												
C	COOLING				0 VA				0.00%				0 VA				3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.												
V	VENTILATION				0 VA				0.00%				0 VA				4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.												
M	MOTORS				0 VA				0.00%				0 VA				5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.												
K	KITCHEN				0 VA				0.00%				0 VA				6. PROVIDE METAL DIRECTORY FRAME.												
R	RECEPTACLES				2160 VA				100.00%				2160 VA				7. THIS PANEL SHALL BE U.L. LISTED FOR USE AS S.E. EQUIP.												
WH	WATER HEATER				0 VA				0.00%				0 VA				8. PANEL WAS DESIGNED FOR 1 P.W.												
M	MISC.				9000 VA				100.00%				9000 VA				9. PROVIDE BREAKER WITH HANDLE-ON DEVICE.												
S	SPARE				0 VA				0.00%				0 VA				10. PROVIDE BREAKER WITH SHUNT TRIP.												
E	ELEVATOR				0 VA				0.00%				0 VA				11. PROVIDE FEED-THRU LUGS.												
																		12. PROVIDE "ALL MODES" SPD (40ka / MODE, 80ka / PHASE											
TOTAL KVA (CONNECTED):					11.16 kVA					TOTAL PER PHASE (CONNECTED)					LOAD CLASSIFICATION ABREVIATIONS (CONT.)														
TOTAL KVA (DEMAND):					11.16 kVA					30.1 A					30.1 A					32.8 A					F. FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.				
TOTAL AMP (CONNECTED):					31 A																								
TOTAL AMP (DEMAND):					31 A																								

[illegible]

SEAL

KEY PLAN

**PERKINS —
EASTMAN**

520 West Sixth Street
Charlotte, NC 28202
T. +1 704 940 0501
F. +1 704 382 4602

Owner:
UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

Construction Manager:
Construction Manager Name
 Construction Manager Address

Civil / Site:
McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Landscape:
McAdams
One Glenwood Ave. Suite 201, Raleigh, NC 27603

Structural:
LHC Structural Engineers
5430 Wade Park Blvd., Suite 40

Mechanical & Plumbing:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:

UNCW SOUTHEAST DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE

PANEL SCHEDULES

SCALE

E-805

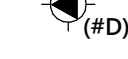
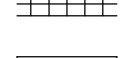
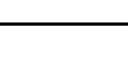
CD PACKAGE 2 - BUILDING

08-05-2020

TELECOMMUNICATIONS DRAWING LIST

Sheet Number	Sheet Name
TC-001	TELECOMMUNICATIONS LEGEND AND NOTES
TC-101	FIRST FLOOR TELECOMMUNICATIONS PLAN
TC-501	ENLARGED TELECOMMUNICATIONS PLANS
TC-601	TELECOMMUNICATIONS DETAILS

SYMBOLS:

SYMBOL	DESCRIPTION
 (Hd)/#V	STANDARD INFORMATION OUTLET. STANDARD HEIGHT (+18" AFF). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE QUANTITY OF CATEGORY 6A CABLES AS INDICATED BY SUBSCRIPTS. PROVIDE 1'-6" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING.
 (Hd)/#V	STANDARD INFORMATION OUTLET. ELEVATED HEIGHT (+42" AFF, UNLESS OTHERWISE NOTED). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE QUANTITY OF CATEGORY 6A CABLES AS INDICATED BY SUBSCRIPT. PROVIDE 1'-6" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING.
 (Hd)	NETWORK OUTLET. STANDARD HEIGHT (+18" AFF). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE QUANTITY OF CATEGORY 6A CABLES AS INDICATED BY SUBSCRIPTS. PROVIDE 1'-6" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING.
 (Hd)	NETWORK OUTLET. ELEVATED HEIGHT (+42" AFF, UNLESS OTHERWISE NOTED). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE QUANTITY OF CATEGORY 6A CABLES AS INDICATED BY SUBSCRIPT. PROVIDE 1'-6" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING.
 (Hd)	NETWORK OUTLET. CEILING MOUNTED. ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE QUANTITY OF CATEGORY 6A CABLES AS INDICATED BY SUBSCRIPT. PROVIDE 1'-6" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING.
 W	NETWORK WALL PHONE OUTLET. ELEVATED HEIGHT (+42" AFF). ELECTRICAL CONTRACTOR SHALL PROVIDE 1-GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE 1-GANG CABLE AND PHONE WALL MOUNT FACEPLATE. PROVIDE 1'-6" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING.
 WAP	WIRELESS ACCESS POINT CONNECTION (CEILING). WHEN INSTALLED IN HARD/OPEN CEILING, ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. REFER TO WIRELESS ACCESS POINT DETAIL (HARD/OPEN CEILING). STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) CATEGORY 6A CABLES FOR EACH WIRELESS ACCESS POINT CONNECTION. PROVIDE 10'-0" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING. WHEN INSTALLED IN ACCESSIBLE CEILING, STRUCTURED CABLING CONTRACTOR SHALL PROVIDE ABOVE CEILING BRACKET AND SURFACE BOX. REFER TO WIRELESS ACCESS POINT DETAIL (ACCESSIBLE CEILING). STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) 3'-0" PATCH AND EQUIPMENT CORDS. WIRELESS ACCESS POINT EQUIPMENT SHALL BE OWNER FURNISHED. CONTRACTOR INSTALLED. COORDINATE WITH OWNER EXACT LOCATION AND MOUNTING METHOD OF WIRELESS ACCESS POINT EQUIPMENT.
 WAP	WIRELESS ACCESS POINT CONNECTION (WALL). ELECTRICAL CONTRACTOR SHALL PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG TRIM RING AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. REFER TO WIRELESS ACCESS POINT DETAIL (WALL). STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) CATEGORY 6A CABLES FOR EACH WIRELESS ACCESS POINT CONNECTION. PROVIDE 10'-0" CABLE SLACK AND COIL AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) 3'-0" PATCH AND EQUIPMENT CORDS. WIRELESS ACCESS POINT EQUIPMENT SHALL BE OWNER FURNISHED. CONTRACTOR INSTALLED. COORDINATE WITH OWNER EXACT LOCATION AND MOUNTING METHOD OF WIRELESS ACCESS POINT EQUIPMENT.
 WAP EXT	WIRELESS ACCESS POINT CONNECTION (EXTERIOR). ELECTRICAL CONTRACTOR SHALL PROVIDE 8'-8 1/2" DEEP JUNCTION BOX, 1" SLEEVE TO EXTERIOR AND 1.25" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) CATEGORY 6A CABLES FOR EACH WIRELESS ACCESS POINT CONNECTION. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE SURGE PROTECTION AND 3'-0" EQUIPMENT CORD. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) 3'-0" PATCH AND EQUIPMENT CORDS. WIRELESS ACCESS POINT EQUIPMENT SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED. REFER TO EXTERIOR NETWORK DEVICE DETAIL. COORDINATE WITH OWNER EXACT LOCATION AND MOUNTING METHOD OF WIRELESS ACCESS POINT EQUIPMENT.
 (F)	FLOOR BOX WITH NETWORK, QUAD POWER AND AV. ELECTRICAL CONTRACTOR SHALL PROVIDE FLOOR BOX, COVER, 1.25" CONDUIT WITH PULL STRING IN/UNDERSLAB TO LOCAL TELECOMMUNICATIONS ROOM FOR NETWORK CABLING. 1.25" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING SPACE WITHIN ROOM FOR AV CABLING. 1.25" CONDUIT WITH PULL STRING TO DISPLAY CONNECTION FOR AV CABLING. 0.75" CONDUIT FOR POWER, QUAD RECEPTACLE AND ASSOCIATED MOUNTING PLATES FOR A COMPLETE INSTALLATION. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE QUANTITY OF CATEGORY 6A CABLES AS INDICATED BY SUBSCRIPT.
	CONDUIT/SLEEVE. 4" UNLESS OTHERWISE NOTED.
	RUNWAY LADDER CABLE TRAY IN TELECOMMUNICATIONS ROOMS.
	WIRE MESH CABLE TRAY ABOVE ACCESSIBLE CEILINGS.
	TWO POST EQUIPMENT RACK WITH VERTICAL WIRE MANAGEMENT. PROVIDED BY TELECOMMUNICATIONS CONTRACTOR.
	3/4" FIRE-RATED AC PLYWOOD WITH TWO COATS OF FIRE RETARDANT LIGHT-COLORED PAINT ON ALL SIDES. STAMP SHALL BE VISIBLE. MOUNT 8" AFF WITH GRADE A SURFACE EXPOSED.
 TMBG	TELECOMMUNICATIONS MAIN GROUND BAR.
 X	DRAWING NOTE

GENERAL NOTES:

- A. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT NETWORK OUTLET LOCATIONS.
- B. COORDINATE LOCATIONS OF CEILING MOUNTED DEVICES (WIRELESS ACCESS POINTS, SPEAKERS, CABLE TRAY, ETC) WITH ALL OTHER TRADES (ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY, ETC).
- C. ANY DIRECTION GIVEN IN THE FIELD THAT DEVIATES FROM THE CONSTRUCTION DOCUMENTS MUST BE DOCUMENTED AND VERIFIED WITH THE ENGINEER.
- D. PROVIDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION.
- E. ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED. WHERE CONDUITS ARE TO BE INSTALLED IN EXPOSED CEILINGS, CONDUITS SHALL BE INSTALLED TIGHT TO STRUCTURE AND PAINTED TO MATCH ADJACENT SURFACE.
- F. PROVIDE A MINIMUM OF (1) 4" CONDUIT BETWEEN ALL ACCESSIBLE CEILING SPACES SEPARATED BY A HARD CEILING GREATER THAN 3'-0" UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS CONDUIT CAPACITY SCHEDULE.
- G. PROVIDE A MINIMUM OF (1) 1.5" CONDUIT FROM EACH CLASSROOM, OFFICE OR WORKSPACE CONTAINING NETWORK DEVICES FROM INTERIOR OF ROOM ABOVE ACCESSIBLE CEILING TO CABLE TRAY/J-HOOKS IN CORRIDOR UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS CONDUIT CAPACITY SCHEDULE.
- H. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN (2) 90° BENDS, OR EQUIVALENT BETWEEN PULL POINTS. PROVIDE JUNCTION BOX SIZED PER NEC AS REQUIRED.
- I. NO SECTION OF CONDUIT SHALL BE LONGER THAN 100'-0" BETWEEN PULL POINTS. PROVIDE JUNCTION BOX SIZED PER NEC AS REQUIRED.
- J. ALL 2" AND LARGER CONDUITS SHALL BE LABELED ON BOTH ENDS INDICATING DESTINATION LOCATION.
- K. ALL JUNCTION BOXES MOUNTED IN EXTERIOR WALLS SHALL BE WEATHERPROOF AND GASKETED.
- L. ALL JUNCTION BOXES AND CONDUITS LOCATED IN POOL ENVIRONMENTS, POOL EQUIPMENT ROOMS OR CHEMICAL STORAGE AREAS SHALL BE GALVANIZED EMT.
- M. INSTALLATION OF AC VOLTAGE CABLING IN LOW VOLTAGE PATHWAYS IS NOT ACCEPTABLE.
- N. CABLING SHALL PASS STRAIGHT THROUGH ANY PULL BOX. CHANGE OF DIRECTION IN A PULL BOX IS NOT ACCEPTABLE.
- O. CONDUITS SHALL HAVE A MINIMUM OF 40% FILL PRIOR TO UTILIZING AN ADJACENT EMPTY CONDUIT.
- P. FACEPLATES SHALL MATCH ADJACENT ELECTRICAL DEVICES. FINAL COLOR AND FINISH TO BE APPROVED BY ARCHITECT AND OWNER. PROVIDE STAINLESS STEEL FACEPLATES UNLESS OTHERWISE NOTED.
- Q. ALL FACEPLATES AND PATCH PANELS SHALL UTILIZE MODULAR JACKS.
- R. COPPER JACK COLOR SHALL MATCH CABLE COLOR.
- S. CABLING SHALL NOT BE PAINTED. MANUFACTURERS WARRANTY MAY BE VOIDED.
- T. TERMINATE ALL CABLING ON DEDICATED SYSTEM PATCH PANEL. (WIRELESS, DATA, SECURITY, POS, ETC.)
- U. PROVIDE OUTSIDE PLANT CATEGORY CABLING FOR IN/UNDERSLAB APPLICATIONS. CONDUIT CONTAINING OUTSIDE PLANT CABLING SHALL BE EXTENDED TO LOCAL TELECOMMUNICATIONS ROOM.
- V. ALL CABLING SHALL BE TERMINATED, TESTED AND LABELED PER SPECIFICATIONS. ALL LABELING SHALL BE MACHINE PRINTED. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.
- W. PROVIDE PATCH CORD FOR EACH TERMINATED PORT IN TELECOMMUNICATIONS ROOM. COORDINATE EXACT LENGTH WITH OWNER.
- X. PROVIDE EQUIPMENT CORD FOR EACH WIRELESS ACCESS POINT. COORDINATE EXACT LENGTH WITH OWNER.
- Y. PROVIDE SURGE SUPPRESSION MODULE AT EXTERIOR WIRELESS ACCESS POINT LOCATIONS. DITEK, DTK-MURPORS OR APPROVED EQUAL. REFER TO EXTERIOR NETWORK DEVICE DETAIL.
- Z. ALL PENETRATIONS THROUGH RATED WALLS MUST BE FIRESTOPPED. UTILIZE MECHANICAL FIRE RATED PATHWAYS, STI EZ-PATH OR APPROVED EQUAL.
- AA. PROVIDE METALLIC J-HOOKS FOR CABLING IN ACCESSIBLE CEILING SPACES WITHOUT CABLE TRAY AT 3'-5" IRREGULAR INTERVALS. PANDUIT, COOPER B-LINE, NVENT CADDY, OR APPROVED EQUAL.
- BB. THE USE OF J-HOOKS IN EXPOSED CEILING AREAS IS NOT ACCEPTABLE. PROVIDE CONDUIT OR SOLID BOTTOM CABLE TRAY. CONDUITS AND/OR SOLID BOTTOM CABLE TRAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
- CC. THE USE OF J-HOOKS ABOVE HARD CEILING AREAS IS NOT ACCEPTABLE. PROVIDE CONDUIT.
- DD. NYLON CABLE TIE WRAPS ARE NOT ACCEPTABLE FOR BINDING OR SECURING CABLE BUNDLES. UTILIZE HOOK AND LOOP STRAPS TO SECURE CABLING. STRAPS SHALL BE EVENLY SPACED THROUGHOUT THE DRESSED LENGTH.
- EE. PATCH CORDS SHALL BE MANUFACTURED BY THE SELECTED END-TO-END SYSTEM MANUFACTURER AND SHALL BE OF CORRECT GRADE TO MAINTAIN THE BEYOND CATEGORY 6 OR BEYOND CATEGORY 6A CHANNEL RATING.
- FF. PATCH CORDS FOR WORK AREAS SHALL BE 50% 15'-0" AND 50% 20'-0" (UNLESS OTHERWISE DESIGNATED BY NETWORK COMMUNICATIONS DEPARTMENT).

TELECOMMUNICATIONS STANDARDS:

- INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
- A. TIA-568.0-D-1 (GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES)
- B. TIA-568.1-D-1 (COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING)
- C. TIA-568.3-D (OPTICAL FIBER CABLING COMPONENTS)
- D. TIA-568-C-2-1 (BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS)
- E. TIA-569-D-1 (TELECOMMUNICATIONS PATHWAYS AND SPACES)
- F. TIA-606-C (ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE)
- G. TIA-607-C-1 (TELECOMMUNICATIONS BONDING AND GROUNDING FOR CUSTOMER PREMISES)

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	IP	INTERNET PROTOCOL
ADA	AMERICANS WITH DISABILITIES ACT	J-BOX	JUNCTION BOX
AFB	ABOVE FINISHED FLOOR (ELEVATION TAKEN FROM FINISHED FLOOR)	MH	MANHOLE
AFG	ABOVE FINISHED GRADE (ELEVATION TAKEN FROM FINISHED GRADE)	MIN	MINIMUM
AV	AUDIO/VISUAL	NEC	NATIONAL ELECTRICAL CODE
AVC	AUDIO/VISUAL CONTRACTOR	NVR	NETWORK VIDEO RECORDER
AWG	AMERICAN WIRE GAUGE	OSP	OUTSIDE PLANT
BOCT	BOTTOM OF CABLE TRAY	PDU	POWER DISTRIBUTION UNIT
C	CONDUIT	PoE	POWER OVER ETHERNET
CATV	CABLE TELEVISION	PVC	POLYVINYL CHLORIDE
CLG	CEILING	QTY	QUANTITY
CMU	CONCRETE MASONRY UNIT	SC	SECURITY CONTRACTOR
D	DATA	SPECS	SPECIFICATIONS
EC	ELECTRICAL CONTRACTOR	TCC	TELECOMMUNICATIONS CONTRACTOR
EXT	EXTERIOR	TELECOM	TELECOMMUNICATIONS
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
GYP	GYPSUM BOARD	UON	UNLESS OTHERWISE NOTED
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HDTV	HIGH DEFINITION TELEVISION	V	VOICE
HH	HANDHOLE	VoIP	VOICE OVER INTERNET PROTOCOL
IoT	INTERNET OF THINGS	WAP	WIRELESS ACCESS POINT
		WP	WEATHERPROOF

PULL BOX SIZING SCHEDULE

CONDUIT	PULL BOX WIDTH	PULL BOX LENGTH	PULL BOX DEPTH	PULL BOX WITH MULTIPLE CONDUITS (NOTE A)
1.00"	4.00"	16.00"	3.00"	2.00"
1.25"	6.00"	20.00"	3.00"	3.00"
1.50"	8.00"	27.00"	4.00"	4.00"
2.00"	8.00"	36.00"	4.00"	5.00"
2.50"	10.00"	42.00"	5.00"	6.00"
3.00"	12.00"	48.00"	5.00"	6.00"
4.00"	15.00"	60.00"	8.00"	8.00"

- NOTES:
- A. FOR EACH ADDITIONAL CONDUIT, ADD INDICATED DIMENSION TO PULL BOX WIDTH.
- B. SIZING INDICATED IS FOR MINIMUM PULL BOX SIZE. INCREASE AS REQUIRED.

CONDUIT CAPACITY SCHEDULE

CONDUIT	1.00"	1.25"	1.50"	2.00"	2.50"	3.00"	4.00"
CABLES	4	7	10	18	25	40	70

- NOTES:
- A. UPSIZE CONDUIT TO NEXT SIZE SHOWN IN THIS SCHEDULE WHEN CABLE CAPACITY HAS BEEN EXCEEDED.
- B. CONDUIT CAPACITY CALCULATED WITH 0.295" O.D. CATEGORY CABLE AT 40% FILL RATIO.

CABLE TRAY CAPACITY SCHEDULE

CABLE TRAY	12"X2"	18"X2"	24"X2"	--	12"X4"	18"X4"	24"X4"
CABLES	140	210	281	--	281	421	562

- NOTES:
- A. UPSIZE CABLE TRAY WIDTH TO NEXT SIZE SHOWN IN THIS SCHEDULE WHEN CABLE CAPACITY HAS BEEN EXCEEDED.
- B. CABLE TRAY CAPACITY CALCULATED WITH 0.295" O.D. CATEGORY CABLE AT 40% FILL RATIO.

CONDUIT/SLEEVE SCHEDULE

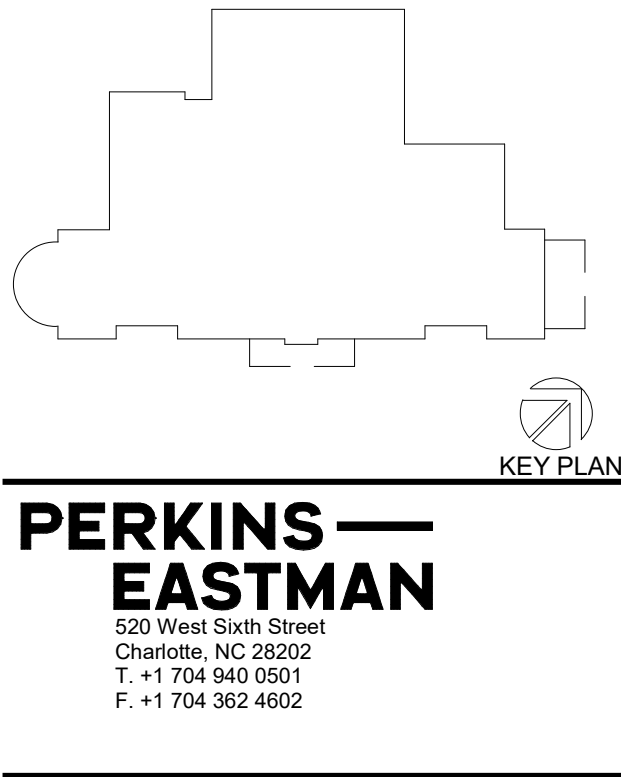
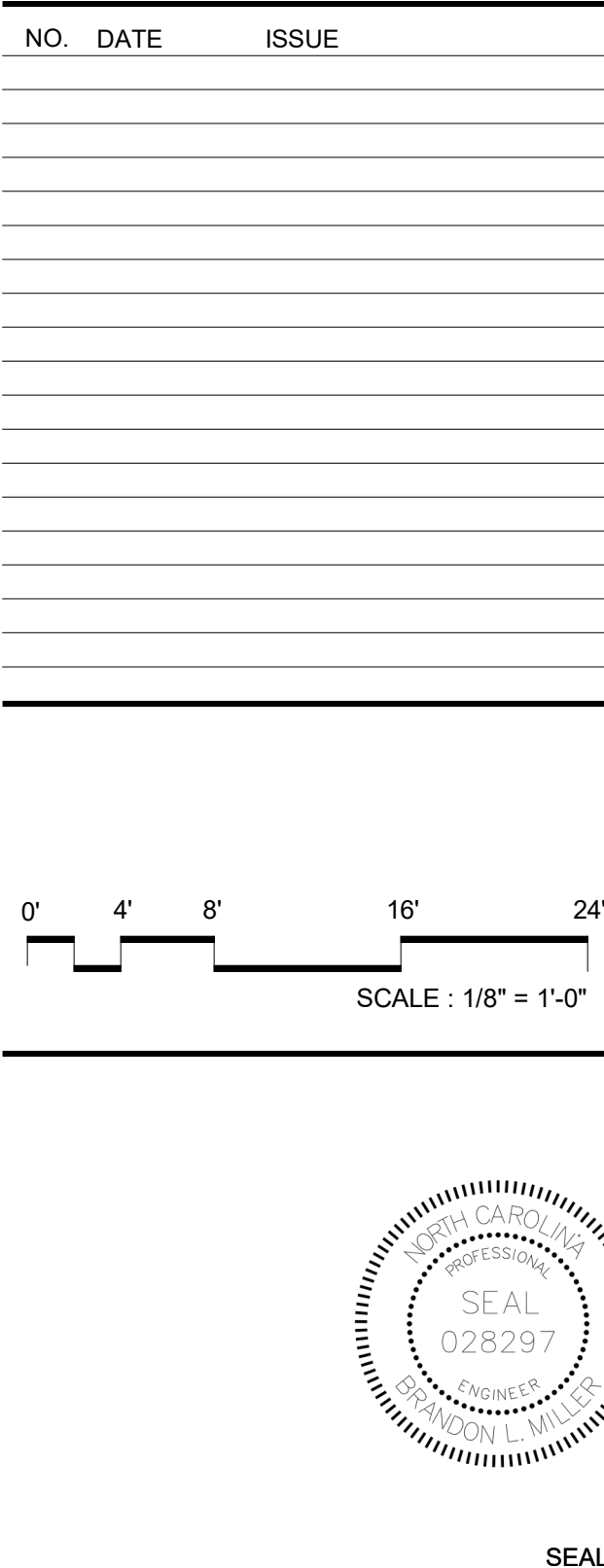
CLASSROOMS	(2) 2" CONDUITS TO CABLE TRAY/J-HOOKS IN ACCESSIBLE CEILING SPACE IN CORRIDOR.
COMPUTER LABS	(2) 4" CONDUITS TO CABLE TRAY/J-HOOKS IN ACCESSIBLE CEILING SPACE IN CORRIDOR.
SMALL OFFICES	(2) 2" CONDUITS TO CABLE TRAY/J-HOOKS IN ACCESSIBLE CEILING SPACE IN CORRIDOR.
LARGE OFFICES	(2) 2" CONDUITS TO CABLE TRAY/J-HOOKS IN ACCESSIBLE CEILING SPACE IN CORRIDOR.
WORKSPACES	(2) 2" CONDUITS TO CABLE TRAY/J-HOOKS IN ACCESSIBLE CEILING SPACE IN CORRIDOR.
CONFERENCE ROOMS	(2) 2" CONDUITS TO CABLE TRAY/J-HOOKS IN ACCESSIBLE CEILING SPACE IN CORRIDOR.

- ADDITIONAL REQUIREMENTS:
- A. PROVIDE A MINIMUM OF (1) 4" CONDUIT BETWEEN ALL ACCESSIBLE CEILING SPACES SEPARATED BY A HARD CEILING GREATER THAN 3'-0" UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS CONDUIT CAPACITY SCHEDULE.

CABLE SERVICE LOOP SCHEDULE

	SOURCE	DESTINATION	NOTES
HORIZONTAL - COPPER - DATA	10'-0"	1'-6"	
HORIZONTAL - COPPER - WAP	10'-0"	10'-0"	

- NOTES:
- A. UTILIZE FIGURE EIGHT CONFIGURATION FOR LARGE SERVICE LOOPS.
- B. COIL CABLING FOR FIELD DEVICE LOCATIONS AT CABLE TRAY/J-HOOKS ABOVE ACCESSIBLE CEILING.



Owner:
UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

Construction Manager:
Construction Manager Name
Construction Manager Address

Civil / Site:
McAdams
One Glenwood Ave., Suite 201, Raleigh, NC 27603

Landscape:
McAdams
One Glenwood Ave., Suite 201, Raleigh, NC 27603

Structural:
LHC Structural Engineers
5430 Waste Park Blvd., Suite 400

Mechanical & Plumbing:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:

TELECOMMUNICATIONS
LEGEND AND NOTES

SCALE: NO SCALE

TC-001

CD PACKAGE 2 - BUILDING

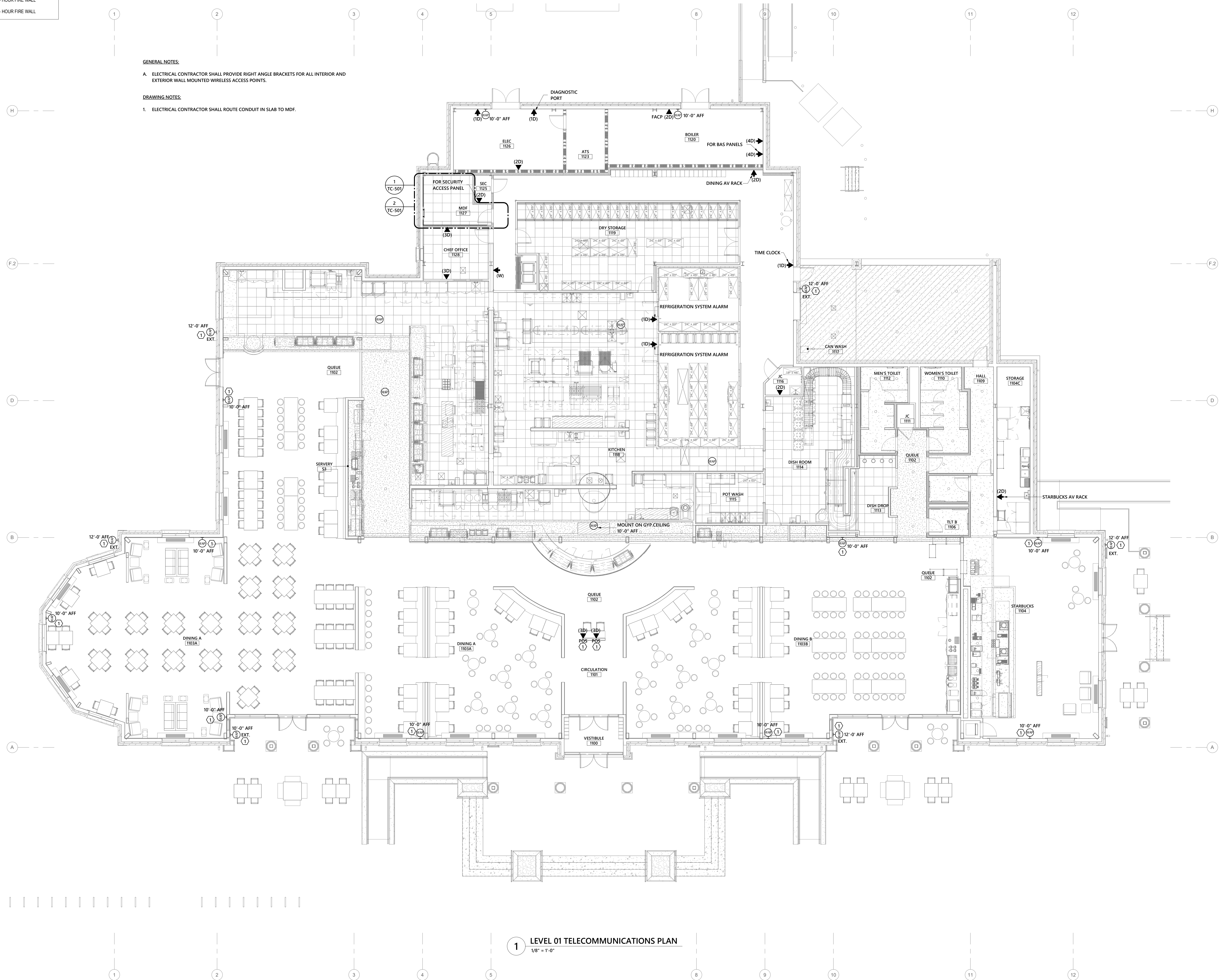
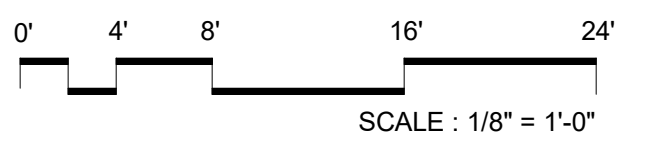
08-05-2020

1 - HOUR FIRE WALL

2 - HOUR FIRE WALL

A. ELECTRICAL CONTRACTOR SHALL PROVIDE RIGHT ANGLE BRACKETS FOR ALL INTERIOR AND EXTERIOR WALL MOUNTED WIRELESS ACCESS POINTS.

1. ELECTRICAL CONTRACTOR SHALL ROUTE CONDUIT IN SLAB TO MDF

[illegible]**PERKINS—
EASTMAN**

520 West Sixth Street
Charlotte, NC 28202
T. +1 704 940 0501
F. +1 704 382 4602

Construction Manager Name
Construction Manager Address

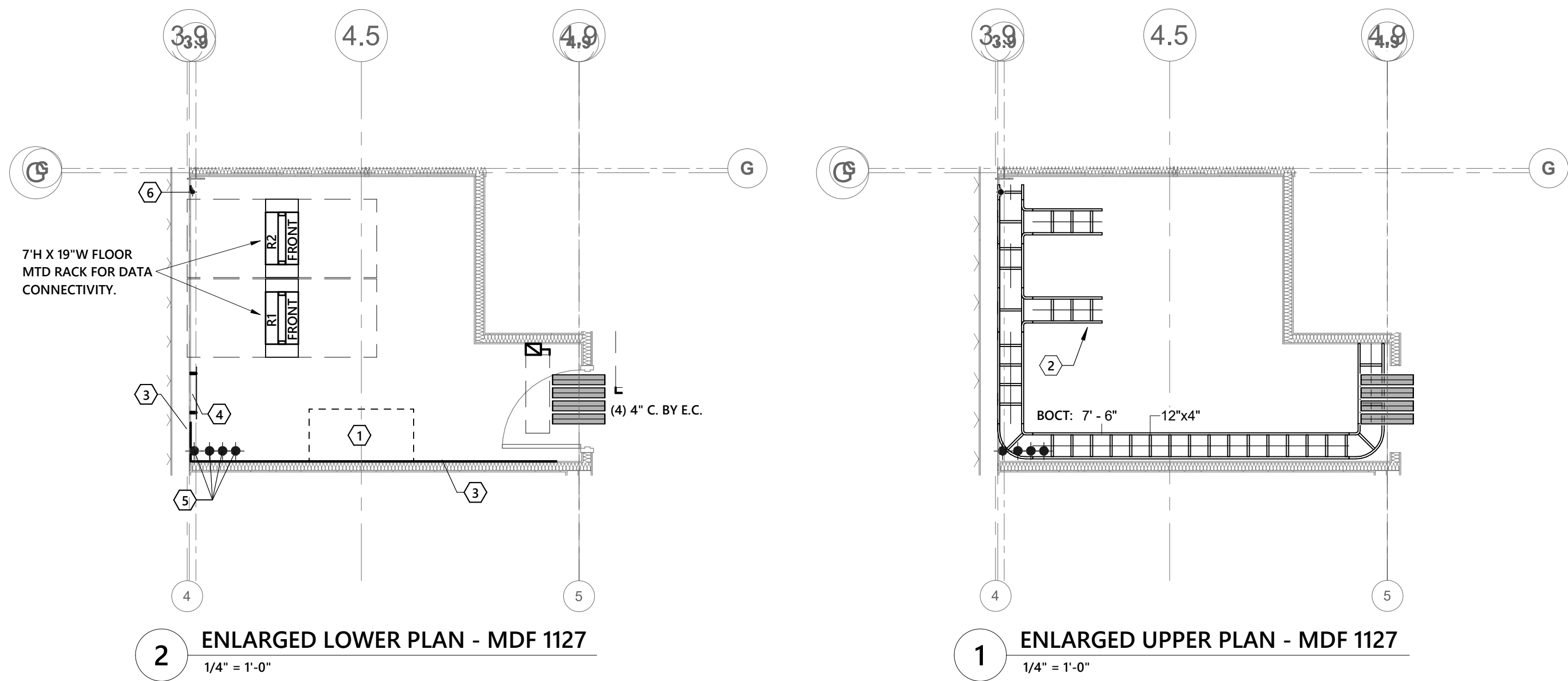
UNCW SOUTHEAST
DINING FACILITY

FIRST FLOOR
TELECOMMUNICATIONS
PLAN

TC-101

08-05-2020

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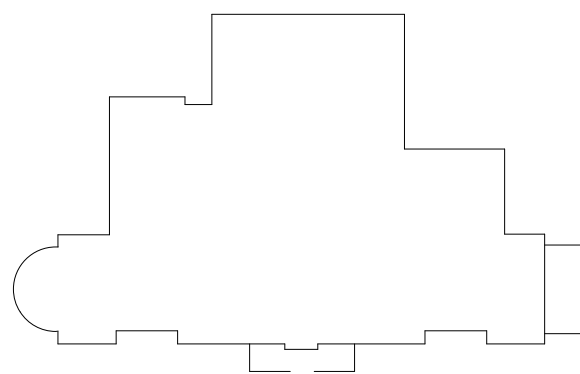


TELECOMMUNICATION ROOM - DRAWING NOTES

- ELECTRICAL CONTRACTOR SHALL ENSURE A 4' X 2' SPACE FOR CONDUIT STUB-UPS FROM VOICE AND DATA DEVICES.
- 12" LADDER RACK AT 7'-6" AFF. MOUNT FLUSH TO TOP OF DATA RACKS UTILIZING 6" RUNWAY ELEVATION KITS.
- PROVIDE 8' x 4', 3/4" NON-FIRE RATED PLYWOOD BACKBOARD. PLYWOOD BACKBOARD SHALL BE VOID FREE AND FINISHED ON ONE SIDE. CONTRACTOR SHALL MOUNT PLYWOOD 4" AFF ON ALL WALLS OF TELECOMMUNICATION ROOM. PLYWOOD BACKBOARD SHALL HAVE A MINIMUM OF TWO COATS OF FIRE RESISTANT WHITE PAINT ON ALL SIX SIDES. FINAL PAINT FINISH SHALL HAVE A SMOOTH FINISH CLEAR OF FOOTPRINTS, MARKINGS, ECT. NO EXCEPTIONS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE 24" PRE-DRILLED GROUND BUS BAR MOUNTED ABOVE CABLE TRAY IN MDF ROOM. PROVIDE CHATSWORTH GROUNDING BAR 10622-010 OR EQUIVALENT. REFER TO E-604/DETAIL #6 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- (4)-4" CONDUITS STUBBED UNDERGROUND AND ROUTED 5'-0" AWAY FROM OUTSIDE OF BUILDING BEYOND THE BUILDING FOUNDATION FOR INCOMING SERVICES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH CIVIL FOR HANDHOLE/PULL BOX LOCATIONS.
- PROVIDE (1)-2" CONDUIT WITH WEATHERHEAD FROM MDF 1127 TO ROOF TOP FOR FUTURE USE. INSTALL 12" ABOVE LADDER RACK IN MDF AND STUB UP 4" ABOVE ROOF.



SEAL



KEY PLAN

PERKINS — EASTMAN
520 West Sixth Street
Charlotte, NC 28202
T: +1 704 540 1501
F: +1 704 362 4602

Owner:
UNC WILMINGTON
601 S College Rd, Wilmington, NC 28403

Construction Manager:
Construction Manager Name
Construction Manager Address

Civil / Site:
McAdams
One Glenwood Ave, Suite 201, Raleigh, NC 27603

Landscape:
McAdams
One Glenwood Ave, Suite 201, Raleigh, NC 27603

Structural:
LHC Structural Engineers
5430 Waste Park Blvd., Suite 400

Mechanical & Plumbing:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Electrical:
Optima Engineering
1927 S. Tryon St. Suite 300, Charlotte, NC 28203

Food Service:
Ricca Design Studios
515 Washington Street Norwell, MA 02061

PROJECT TITLE:
UNCW SOUTHEAST DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE:
ENLARGED TELECOMMUNICATIONS PLANS

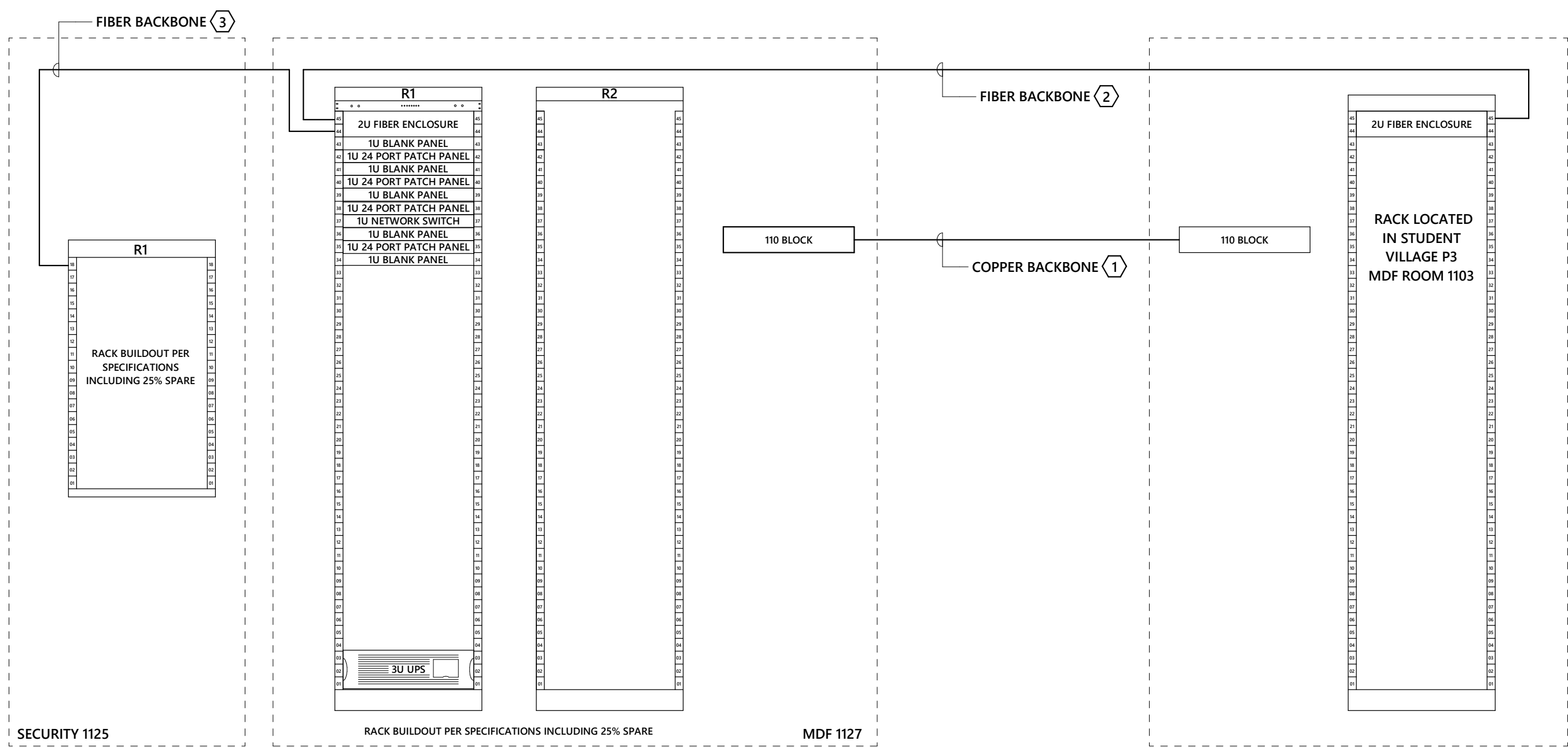
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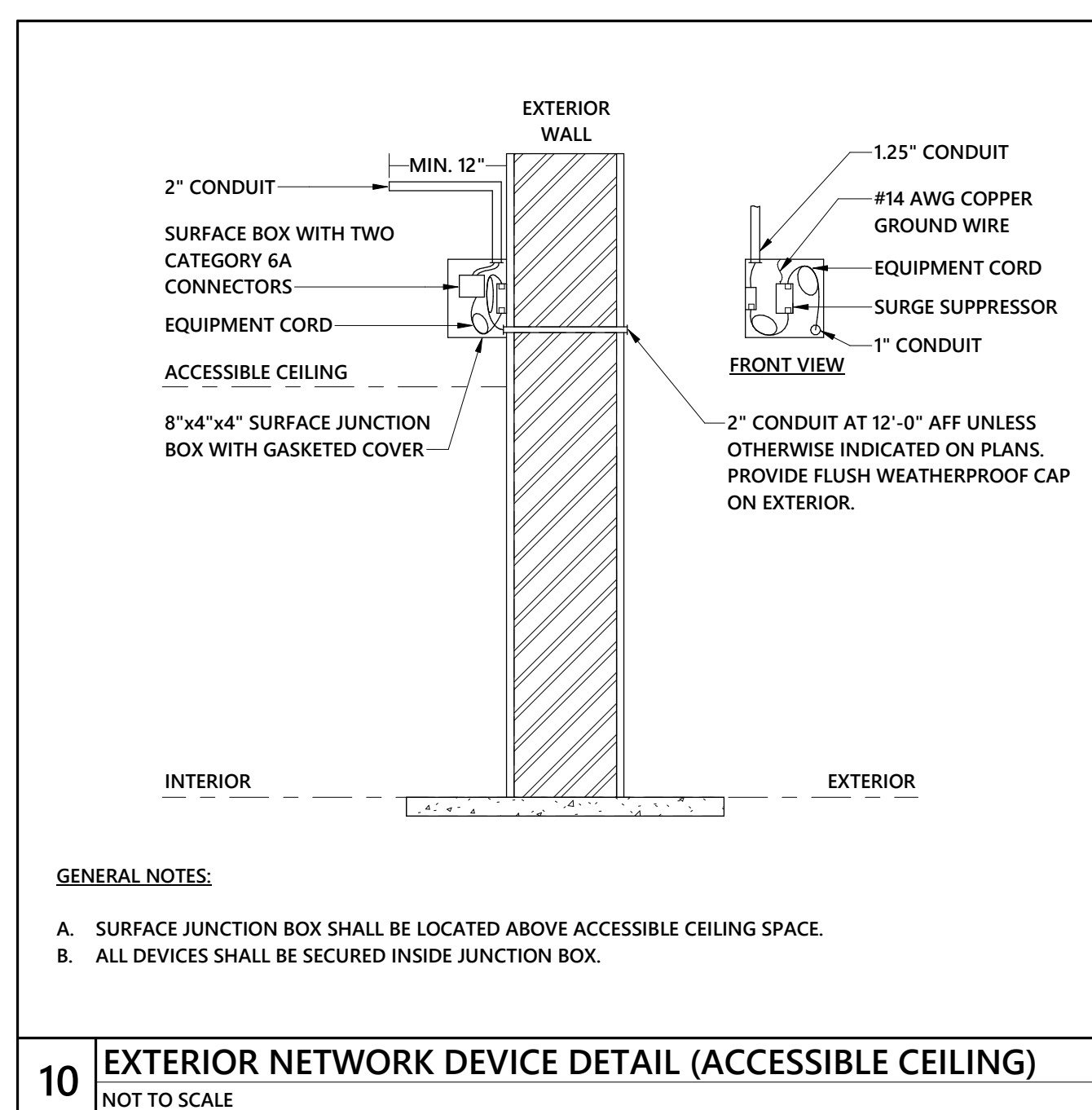
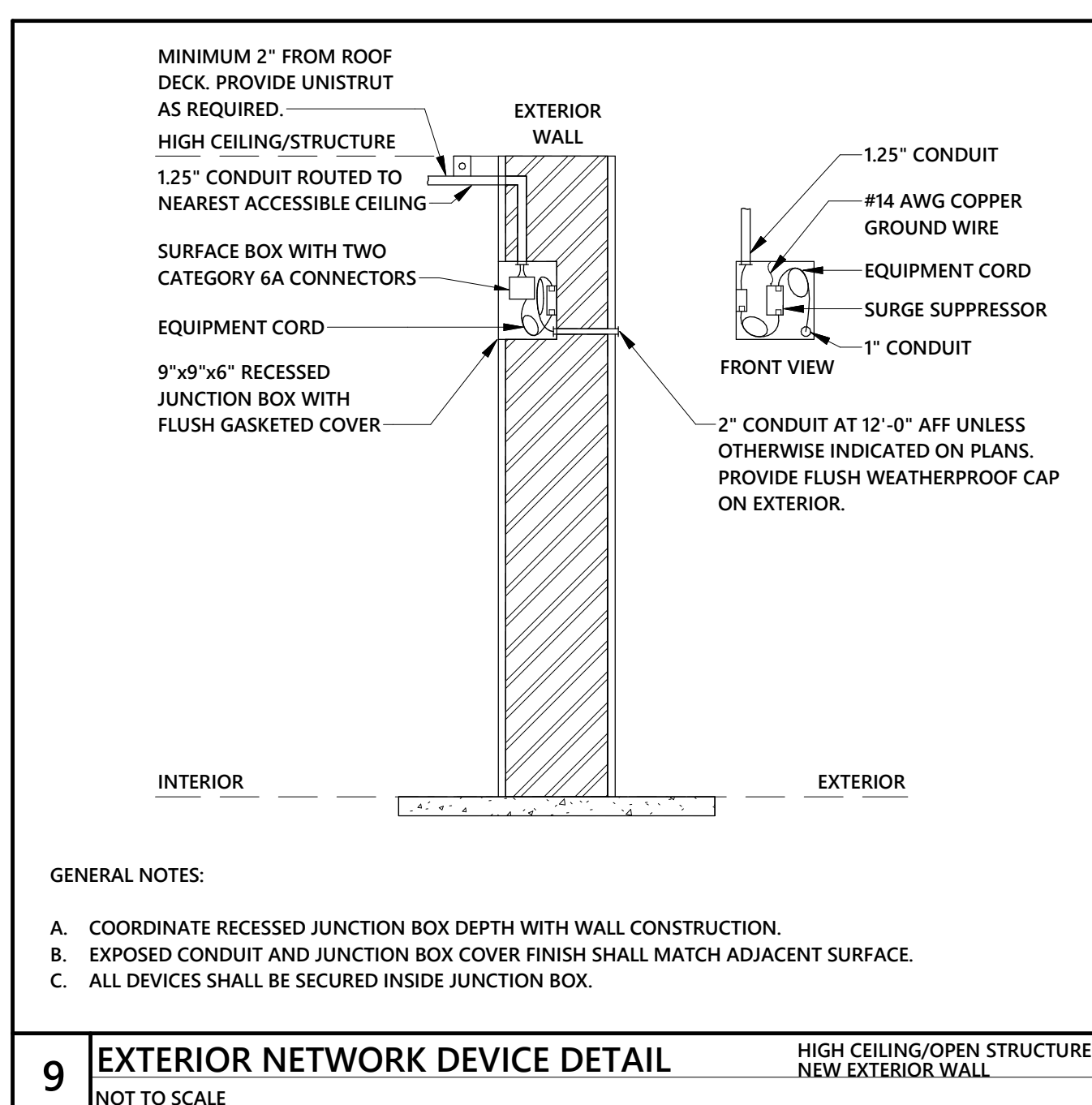
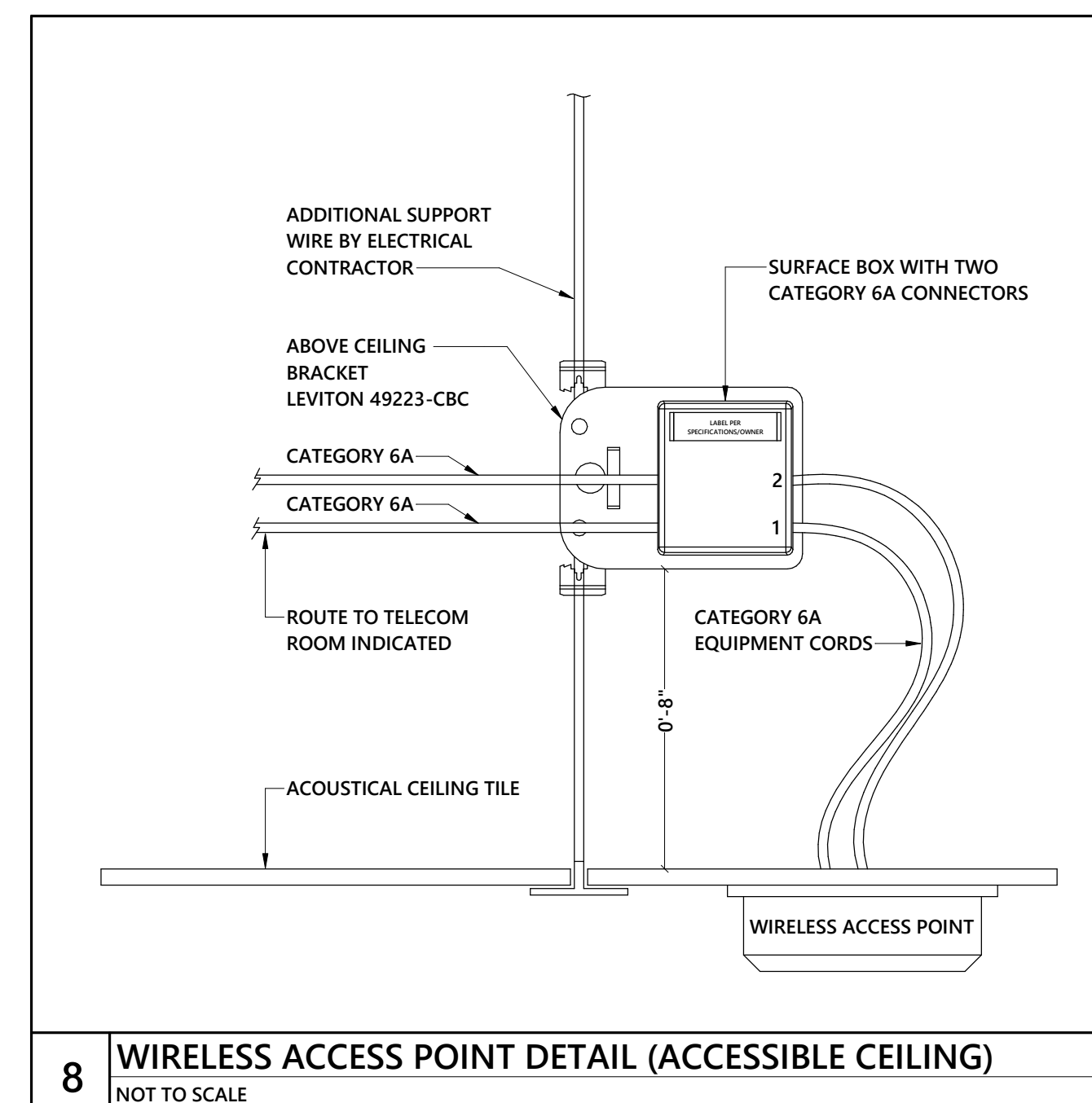
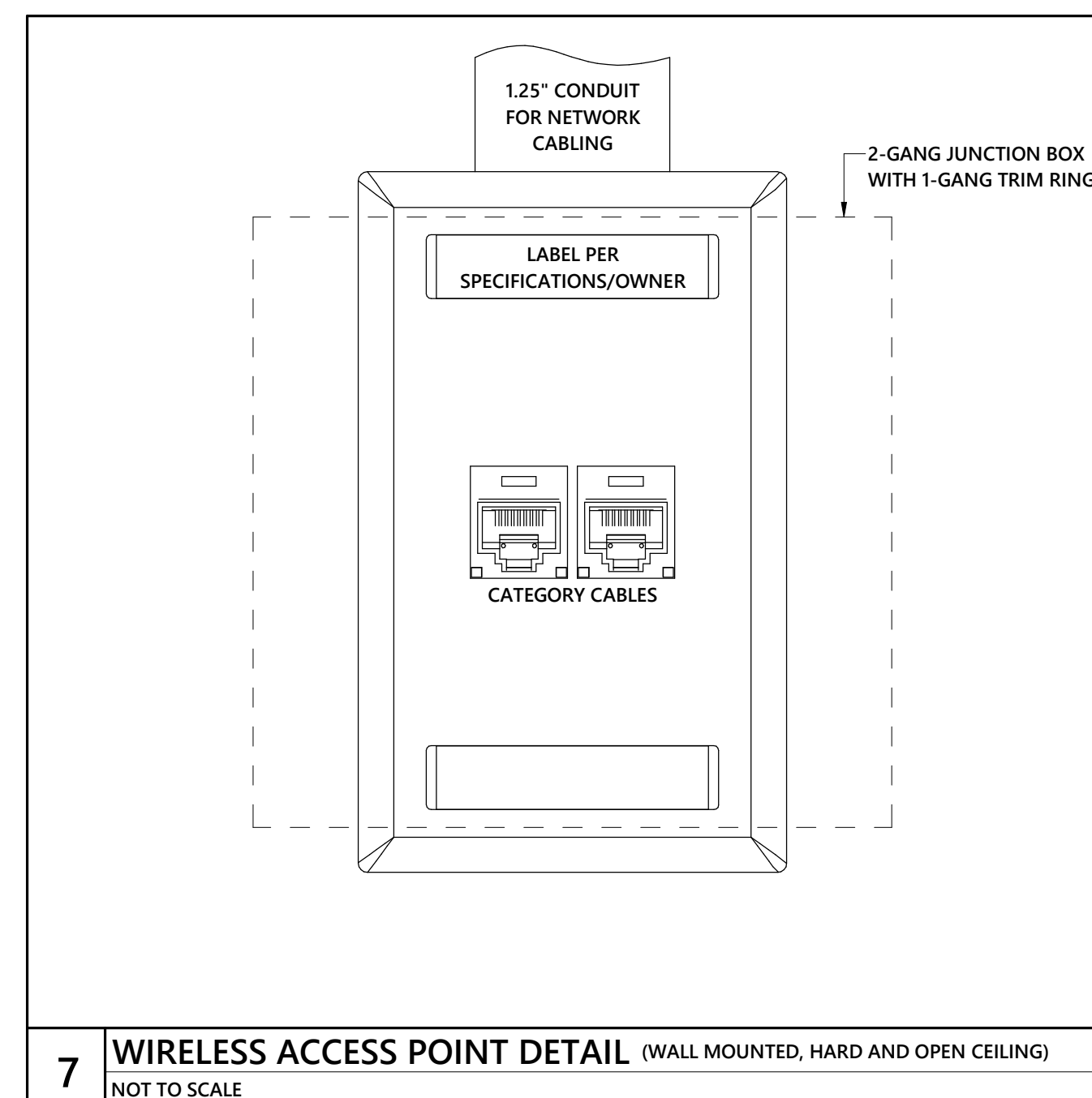
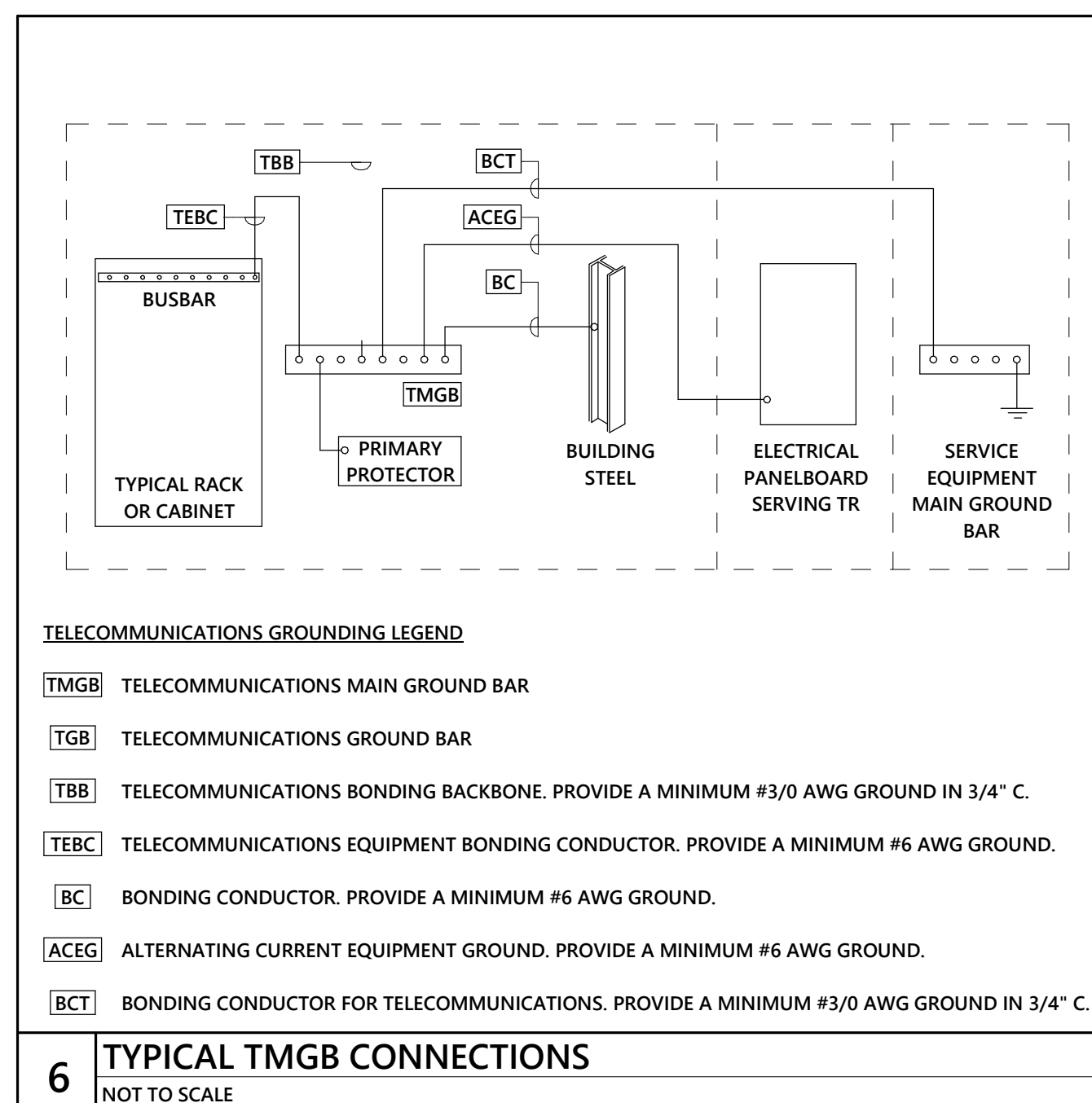
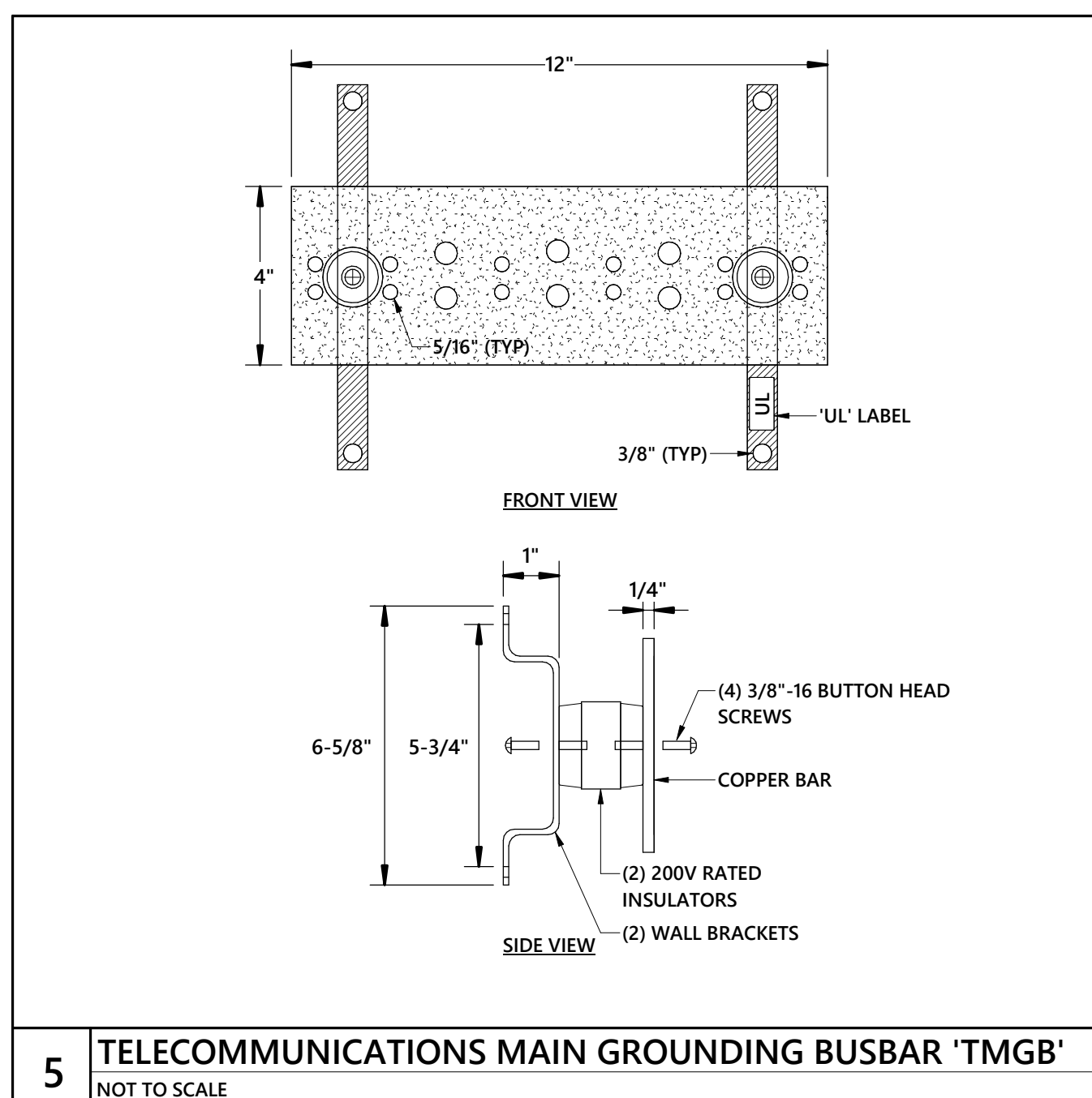
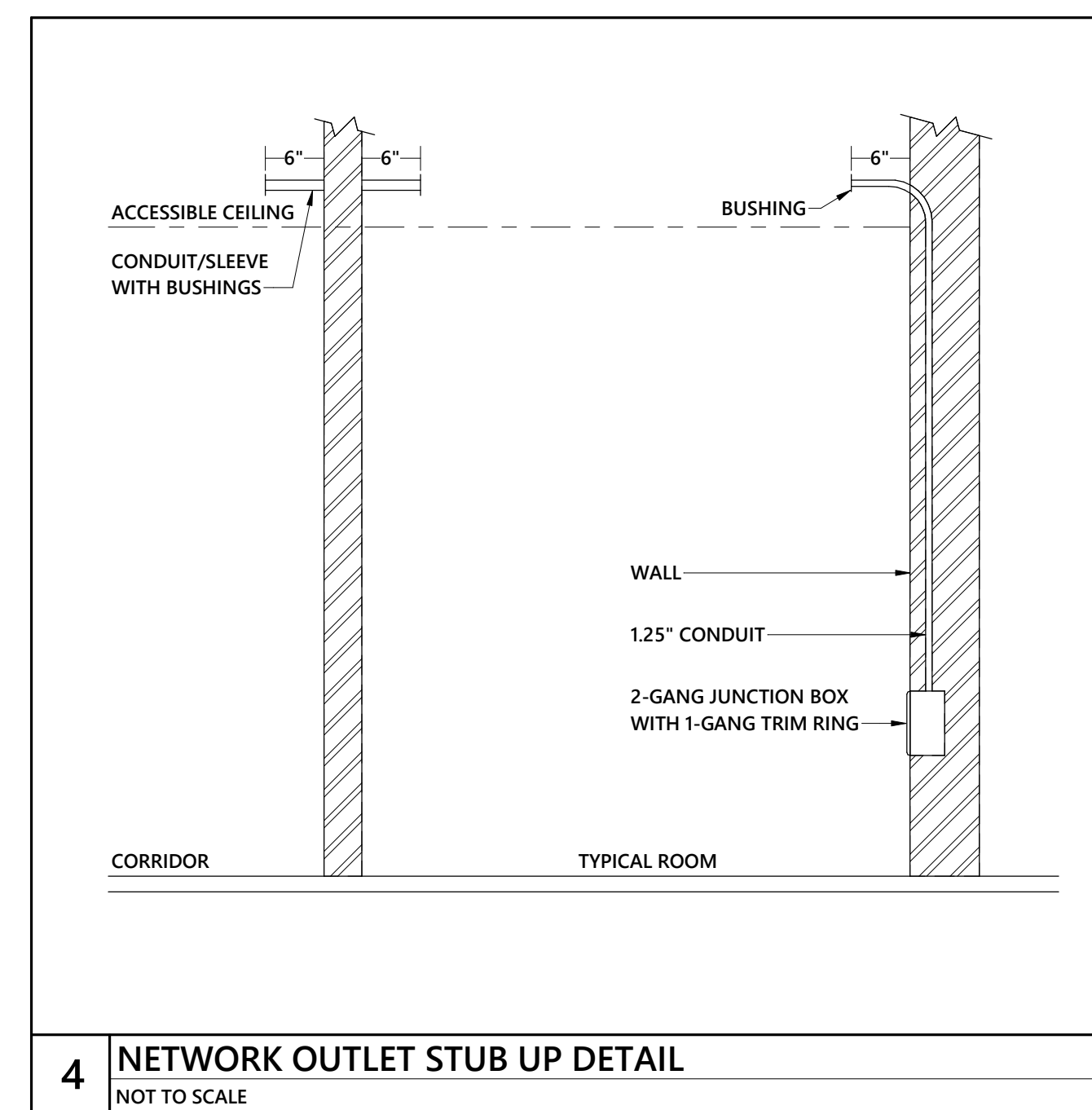
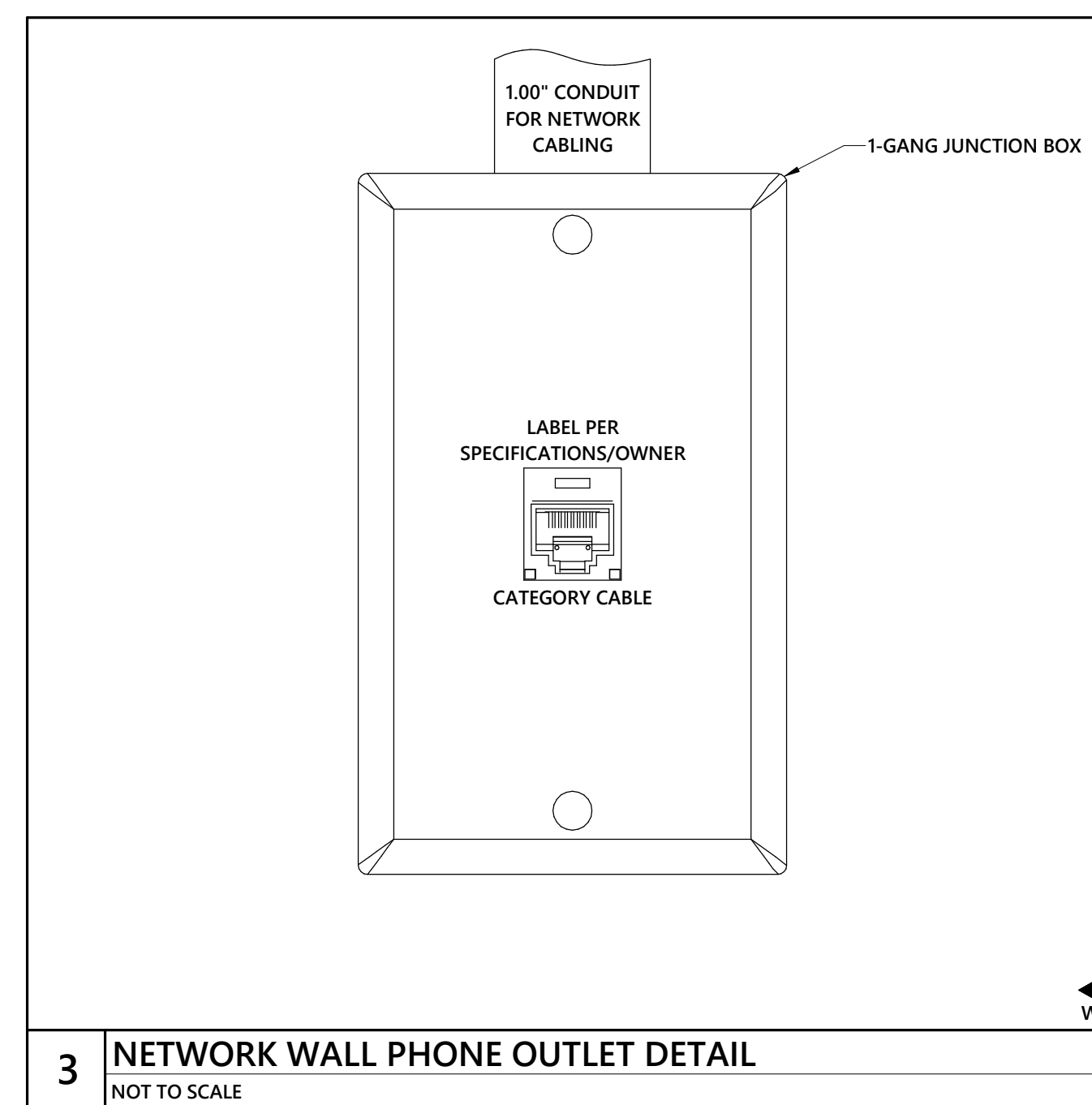
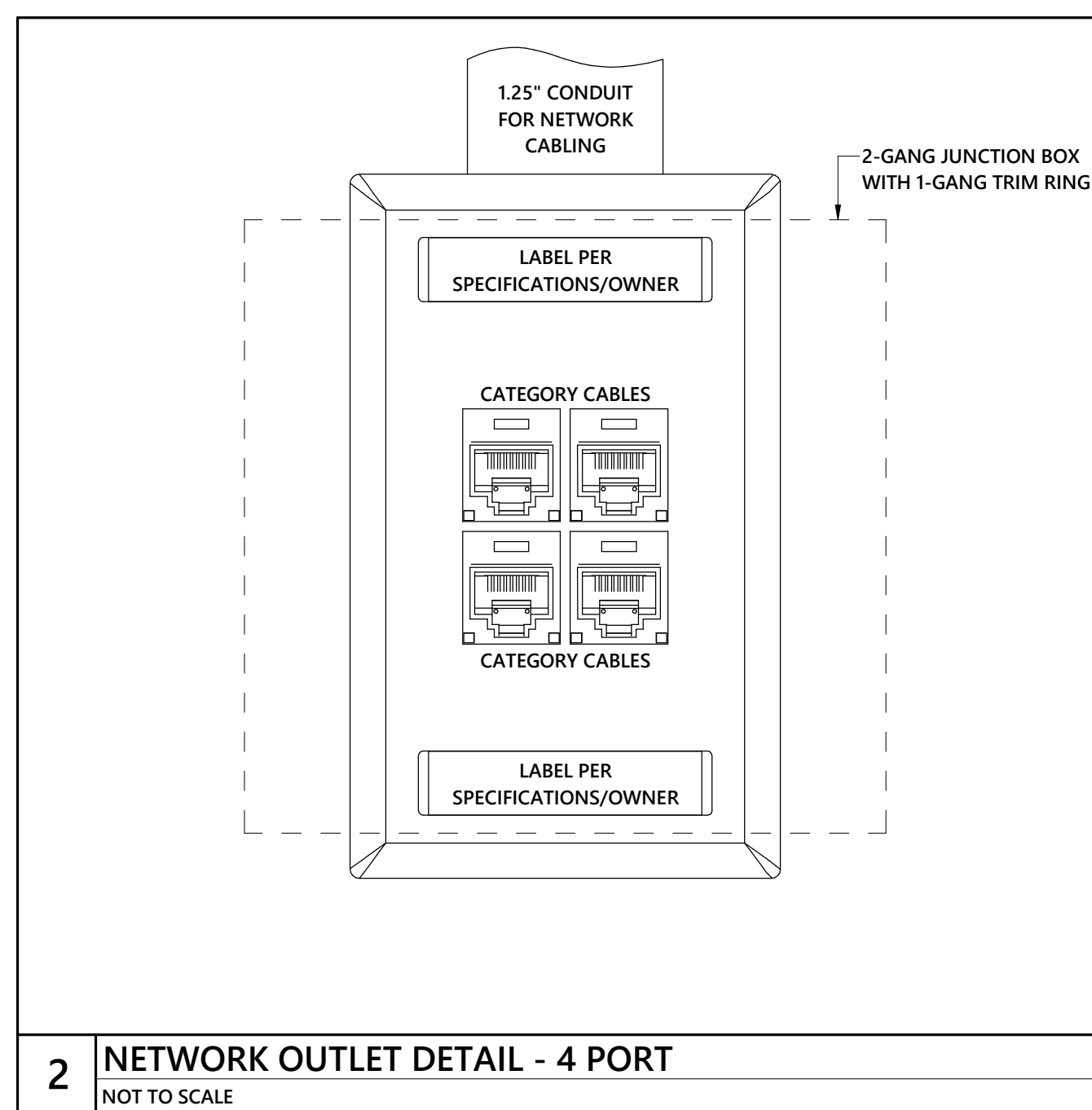
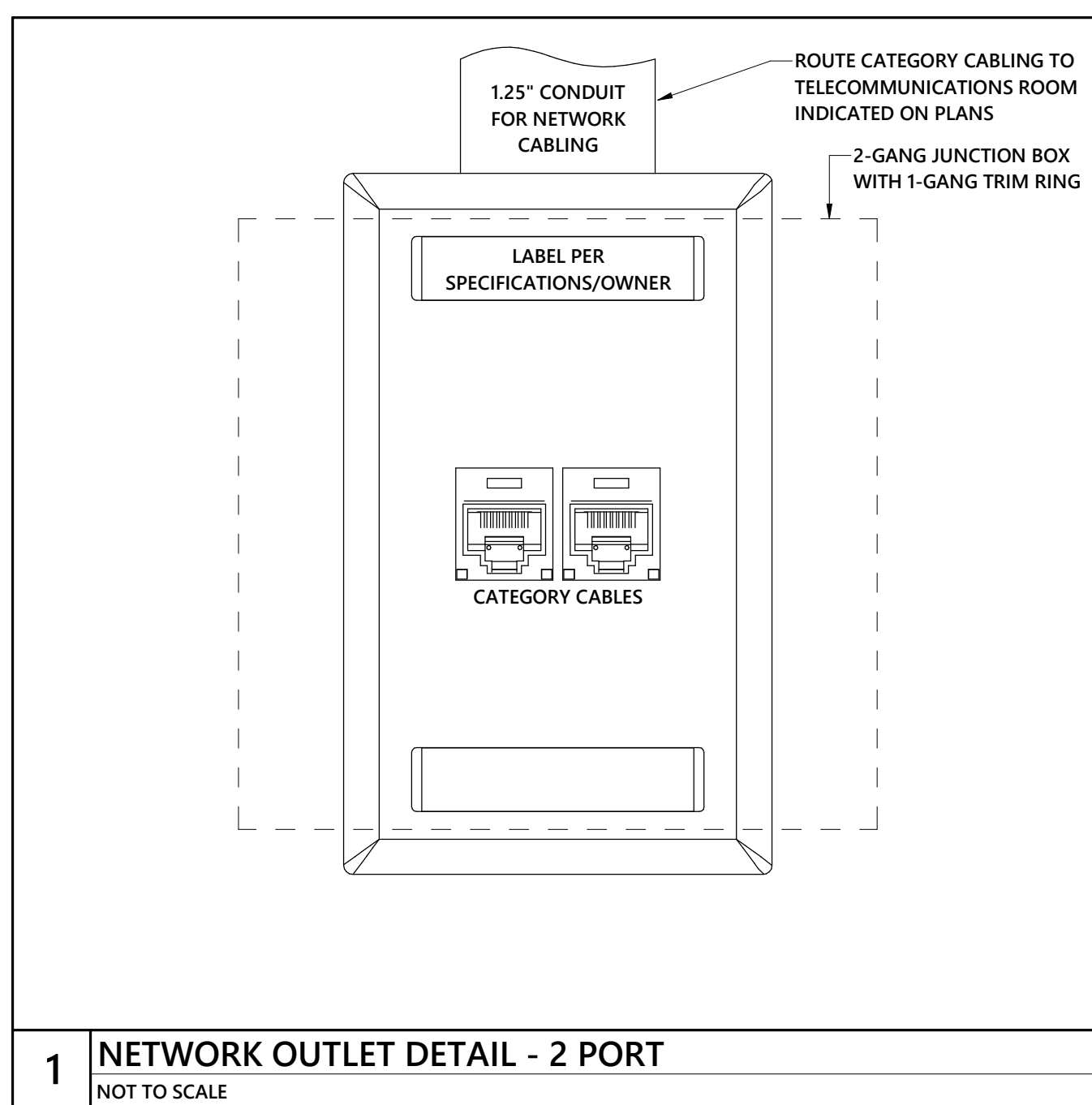
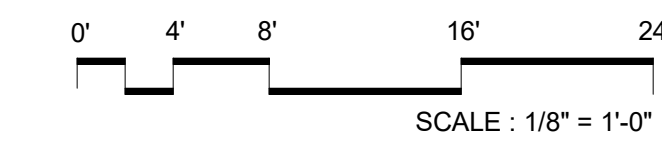
TC-501

CD PACKAGE 2 - BUILDING

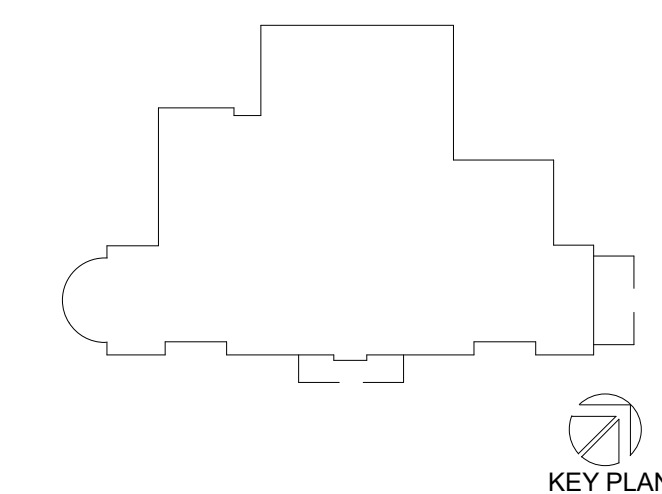
08-05-2020

4 TELECOMMUNICATIONS DISTRIBUTION DIAGRAM
1/8" = 1'-0"



[illegible]

SEA



**PERKINS —
EASTMAN**

520 West Sixth Street
Charlotte, NC 28202
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Owner:
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Ricca Design Studios
515 Washington Street Norwell, MA 0206

PROJECT TITLE:

UNCW SOUTHEAST
DINING FACILITY

PRICE DRIVE, WILMINGTON NC 28403

SCO #: 19-21358-01B

PROJECT No: 71193

DRAWING TITLE

TELECOMMUNICATIONS
DETAILS

SCALE: NO SCALE

TC-601

CD PACKAGE 2 - BUILDING

08-05-2020