GENERAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING CIVIL, STRUCTURAL, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE ENGINEER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #6 OR LARGER TO ENSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER

ELECTRICAL SERVICE: PROVIDE THE ELECTRICAL SERVICE. COMMUNICATE WITH THE LOCAL POWER COMPANY, VERIFY ALL REQUIREMENTS, AND COORDINATE ALL EFFORTS.

GROUNDING: PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ENTIRE ELECTRICAL SYSTEM INCLUDING EQUIPMENT FRAMES, CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS, AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL POWER CONDUITS

LABELS: PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS. DO NOT USE SELF-ADHESIVE LABELS. LABEL SHALL INDICATE EQUIPMENT DESIGNATION AND ASSOCIATED PANEL AND CIRCUIT THAT SERVES IT.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

WIRING DEVICES: LABEL ALL WIRING DEVICES WITH PANELBOARD AND CIRCUIT DESIGNATION PERMANENTLY ATTACHED WITH BLACK TYPED DESIGNATION ON CLEAR TAPE.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING, NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS. AS THEY ARE OFTEN DIFFERENT.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS, PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN, AND INSTALL MOTOR STARTERS.

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING

MOTOR CONTROLLERS: ALL 3-PHASE MOTORS SHALL HAVE MAGNETIC MOTOR CONTROLLERS WITH SOLID STATE OVERLOAD RELAY PROTECTION. THE SOLID STATE OVERLOAD RELAY SHALL HAVE PHASE LOSS AND PHASE OVERCURRENT PROTECTION WITH AUTOMATIC RESET UPON RETURN OF NORMAL POWER.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSED SWITCHES IN LIEU OF NON-FUSED SWITCHES OR IN LIEU OF ENCLOSED CIRCUIT BREAKERS, OR OTHER DEVICES INDICATED.

REDUCED VOLTAGE STARTERS: REDUCED VOLTAGE STARTERS OR ELECTRONIC SOFT START CONTROLLERS OR VARIABLE FREQUENCY DRIVES (VFD) SHALL BE PROVIDED FOR ALL MOTORS 40HP AND LARGER AT 480 VOLTS, AND 20 HP AND LARGER AT 208 VOLTS.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS. ROUGH-IN AND HOOK UP DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

COORDINATION DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

WORKING CLEARANCE: COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MECHANICAL DUCTWORK, PIPING ETC. AND ENSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF EQUIPMENT PROVIDED AND INSTALLED BY OTHER TRADES.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

LIGHTING ARRANGEMENT: ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

LIGHTING COORDINATION: COORDINATE LIGHTING FIXTURES WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, AND ACCESS PANELS. ETC. PROVIDE FIXTURE MOUNTING BRACKETS, ACCESSORIES, PLASTER FRAMES, ETC.. SUITABLE FOR THE CEILING TYPES INDICATED ON THE ARCHITECTURAL PLANS.

LIGHTING CONTROL TESTING: UPON COMPLETION OF THE INSTALLATION OF ALL LIGHTING SYSTEMS AND CONTROL DEVICES CONTRACTOR SHALL CONFIRM PROPER OPERATION OF ALL LIGHTING CONTROLS, AND DEMONSTRATE PROPER OPERATION TO THE OWNER AND/OR ENGINEER.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURE OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, AND TELE/DATA OUTLETS WITH OTHER WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL STATIONS.

EWC RECEPTACLES: RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE EWC ENCLOSURE. VERIFY THE MOUNTING HEIGHT WITH THE **EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.**

DEVICE COORDINATION: THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

FLOOR LOCATIONS: VERIFY THE LOCATION OF ALL FLOOR OUTLET BOXES AND OF CONDUIT STUB-UPS WITH THE ARCHITECT'S FURNITURE AND EQUIPMENT LAYOUT PRIOR TO INSTALLATION.

MULTI-GANG JUNCTION BOXES: WHERE OUTLETS AND SWITCHES ARE SHOWN ON PLAN TO BE INSTALLED ADJACENT TO EACH OTHER AND AT THE SAME MOUNTING HEIGHT. THE DEVICES SHALL BE INSTALLED IN A MULTI-GANG OUTLET BOX, UON. THE SIZE OF THE OUTLET BOX SHALL BE DETERMINED BY THE NUMBER OF DEVICES AND CONDUCTORS THAT SHALL BE INSTALLED IN THE MULTI-GANG OUTLET BOX.

FIRE STOPPING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE-RATED STRUCTURES PROVIDE FIRE-STOPPING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE STOPPING FOR PENETRATIONS SHALL BE UL APPROVED PER THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE-RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES AND PLATES. REPLACE ALL INOPERATIVE FIXTURES.

GROUND FAULT PROTECTION: RECEPTACLES LOCATED WITHIN 6'-0" OF THE EDGE OF SINKS SHALL BE PROVIDED WITH GROUND FAULT PROTECTION WHETHER SHOWN OR NOT.

LEGEND

LIGHTING SUBSCRIPT 'x' INDICATES LIGHTING FIXTURE CONTROLLED AND ASSOCIATED CONTROL DEVICE(S).

WALL MOUNTED LIGHTING FIXTURE

 $\ominus\Box$ AREA SITE LIGHTING FIXTURE

LIGHTING FIXTURE TYPE SYMBOL. SEE LIGHTING FIXTURE DETAILS. LRP LIGHTING RELAY PANEL

PHOTOCELL, 1500W, 120V SPST, MOUNT ON ROOF, AIM NORTH

CEILING MOUNTED DUAL TECHNOLOGY ULTRASONIC/PASSIVE INFRARED OCCUPANCY/VACANCY SENSOR.

SINGLE POLE SWITCH, 20A, 120/277V, 46" AFF UON

THREE-WAY SWITCH, 20A, 120/277V, 46" AFF UON

DRIVERS TO BE CONTROLLED.

DIMMER SWITCH. 46" AFF UON. FOR LED FIXTURES. COORDINATE VOLTAGE AND RATINGS OF SWITCH WITH TYPE AND QUANTITY OF

FOUR-WAY SWITCH, 20A, 120/277V, 46" AFF UON

WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY/VACANCY SENSOR WITH SINGLE POLE SWITCH, 120/277V, MOUNT 46"AFF.

WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY/VACANCY SENSOR WITH DIMMING CAPABILITIES. 120/277V. MOUNT 46"AFF. COORDINATE VOLTAGE AND RATINGS OF SWITCH WITH TYPE AND QUANTITY OF DRIVERS TO BE CONTROLLED.

SDO WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT OVERRIDE SWITCH WITH DIMMING CAPABILITIES, 24VDC, MOUNT 46" AFF.

WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH 24VDC. MOUNT 46"AFF.

WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH WITH DIMMING CAPABILITIES, 24VDC, MOUNT 46"AFF.

WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH SINGLE POLE SWITCH, 120/277V, MOUNT 46"AFF.

POWER

THE FOLLOWING SUBSCRIPTS SHALL APPLY TO RECEPTACLES WHERE USED:

GROUND FAULT INTERRUPTING TYPE RECEPTACLE

RECEPTACLE CONNECTED TO EMERGENCY CIRCUIT. DEVICE SHALL BE RED WITH MATCHING COVERPLATE.

WEATHER RESISTANT GFI RECEPTACLE WITH WEATHERPROOF WHILE-

RECEPTICAL MOUNTED FLUSH IN CEILING.

DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON TWO DUPLEX RECEPTACLES IN COMMON BOX, EACH 20A, 120V, 18" AFF,

DEVICE MOUNTED IN FLUSH FLOOR BOX. SUBSCRIPT "PT", WHERE USED, INDICATES A FLUSH MOUNTED POKE-THRU DEVICE. PROVIDE 1-1/4"C WITH PULL STRING STUBBED ABOVE ACCESSIBLE CEILING FOR

HEAT TAPE CONNECTION, CLASS B GFI DEVICE WITH PUSH TO TEST AND RESET BUTTONS WITH WEATHER PROOF COVER. CONNECT AHEAD OF HEAT TRACE THERMOSTAT.

MECHANICAL UNIT CONNECTION - SEE SCHEDULE. "XXX" INDICATES XXX-# UNIT TYPE. "#" INDICATES UNIT NUMBER.

DDC DIRECT DIGITAL CONTROL PANEL

TELE/DATA CABLING.

EQUIPMENT CONNECTION \bigcirc

JUNCTION BOX

MOTOR CONNECTION

MOTOR RATED SWITCH WITH THERMAL OVERLOADS 20A, 120V, UON, MOUNTED WITHIN SIGHT OF MOTOR.

SAFETY SWITCH, 60A-3P, FU @ 30A, 3R

SWITCH RATING-NUMBER OF POLES— FUSE RATING (NF INDICATES NON-FUSED)

NEMA ENCLOSURE IF OTHER THAN NEMA 1-

INTEGRAL DISCONNECT

ENCLOSED CIRCUIT BREAKER, 60A-3P, 3R

BREAKER TRIP RATING— NUMBER OF POLES-NEMA ENCLOSURE IF OTHER THAN NEMA 1—

PUMP STATION ELECTRICAL CONNECTION - SEE SCHEDULE. # INDICATED UNIT NUMBER. COORDINATE ALL CONNECTION REQUIREMENTS AND CHARACTERISTICS WITH CIVIL DRAWINGS AND EQUIPMENT PROVIDED PRIOR TO ROUGH-IN.

PLUMBING VALVE WITH SENSOR. COORDINATE EXACT CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR

POWER (CONT.)

MAGNETIC MOTOR STARTER, MOUNT WITHIN SITE OF MOTOR 5'-0" AFF MAX. UON.

SPD

SURGE PROTECTIVE DEVICE ELECTRICAL PANELBOARD

'''''

DRY-TYPE TRANSFORMER



PAD MOUNTED TRANSFORMER

-INDICATES FRONT

ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR AND 1 #12 GROUNDING CONDUCTOR IN 1/2" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL SWITCH OUTLET BOXES WHETHER REQUIRED OR NOT. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. GROUNDING CONDUCTORS MAY BE SHARED AS ALLOWED BY THE NEC. NEUTRAL CONDUCTORS SHALL NOT BE SHARED. MULTI-POLE BREAKERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC WHERE MULTI-WIRE BRANCH CIRCUITS ARE REQUIRED. CONDUIT LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.

PULL BOX DIRECT BURIED, TOP FLUSH WITH GRADE, REFER TO DETAIL ON SHEET E-501.

TELECOMMUNICATIONS

TELE/DATA OUTLET, 4"X4"X2 1/8"D BOX WITH SINGLE GANG PLASTER RING AND SINGLE GANG COVERPLATE TO MATCH ELECTRICAL OUTLET COVERPLATE MATERIAL AND COLOR, 18" AFF, UON, WITH 1"C WITH PULL STRING, STUBBED ABOVE ACCESSIBLE CEILING AND TERMINATED WITH BUSHING. WHERE OUTLET IS ADJACENT TO A POWER RECEPTACLE, MOUNT AT SAME ELEVATION AS POWER RECEPTACLE, UON.

SUBSCIPT "C" INDICATES COMMUNICATIONS PULLBOX SEE PULLBOX DETAIL ON SHEET E-501

TELECOMMUNICATIONS BACKBOARD - 4'W x 8'H x 3/4"THICK TYPE AC FIRE RETARDANT

PRIMARY BONDING BUSBAR, SEE DETAIL ON SHEET E-501 FOR ADDITIONAL INFORMATION

—UGC—UGC— UNDERGROUND CONDUIT, CONCRETE ENCASED

GENERAL

7

DETAIL OR SECTION NOTATION

-ENUMERATION: A = DETAIL, 1 = SECTION

PULLBOX, DIRECT BURIED, FIBERGLASS

-SHEET WHERE SECTION IS SHOWN

-SHEET WHERE SECTION IS CUT

— · — · — 1 HOUR FIRE RATED WALL

1 NEW WORK NOTE SYMBOL $\langle 1 \rangle$ DEMOLITION NOTE SYMBOL

ABBREVIATIONS

A AMPERE

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT

AIC AMPERE INTERRUPTING CAPACITY

AWG AMERICAN WIRE GAUGE

BFG BELOW FINISHED GRADE

C CONDUIT

DDC DIRECT DIGITAL CONTROL

DSS DUCTLESS SPLIT SYSTEM EBU EMERGENCY BATTERY UNIT

EC EMPTY CONDUIT

EF EXHAUST FAN

EWC ELECTRIC WATER COOLER

FLA FULL LOAD AMPS

GFI GROUND FAULT INTERRUPTER

GND GROUND

HP HORSE POWER/HEAT PUMP IBC INTERNATIONAL BUILDING CODE

KVA KILO-VOLT-AMPERES

KAIC THOUSAND AMPERE INTERRUPTING CAPACITY

KW KILO-WATTS

LRP LIGHTING RELAY PANEL

MAU MAKE-UP AIR UNIT

MCA MINIMUM CIRCUIT AMPS

MCB MAIN CIRCUIT BREAKER MIN MINIMUM

MLO MAIN LUGS ONLY

MOCP MAXIMUM OVER-CURRENT **PROTECTION**

MTD MOUNTED

NEC NATIONAL ELECTRICAL CODE

NFPA NATIONAL FIRE PROTECTION

NF NON-FUSED

ASSOCIATION

NIC NOT IN CONTRACT

OC ON CENTER

P POLE

PNL PANEL

Ø PHASE

PRI PRIMARY

PVC POLYVINYL CHLORIDE SCH SCHEDULE

SE SERVICE ENTRANCE

SEC SECONDARY SPD SURGE PROTECTION DEVICE

SS SPECIAL SYSTEMS

TBB TELEPHONE BACKBOARD

TGB TELECOMMUNICATIONS **GROUNDING BAR**

TMGB TELECOMMUNICATIONS MAIN GROUNDING BAR TYP TYPICAL

UGC UNDERGROUND CONDUIT

W WATTS/WIRE

WH WATER HEATER

WP WEATHERPROOF

UON UNLESS OTHERWISE NOTED

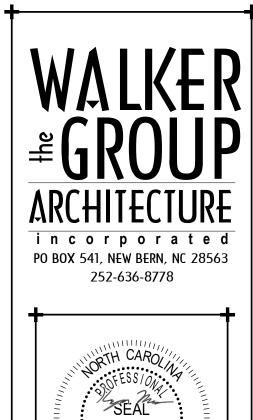
V VOLT

EMERGENCY RESPONDER RADIO COVERAGE NOTE:

PROVIDE A COMPLETE RADIATING CABLE SYSTEM CONSISTING OF COAXIAL CABLE OR EQUIVALENT ABOVE ACCESSIBLE CEILINGS (PREFERABLY CORRIDORS) TO PROVIDE A SUPPORTING CABLE INFRASTRUCTURE FOR THE ADDITION OF A BUILDING DISTRIBUTION AMPLIFIER TO PERPETUATE CONTINUOUS EMERGENCY COMMUNICATION WITHIN THE BUILDING(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CABLE EVERYWHERE NECESSARY TO ENSURE ADEQUATE COMMUNICATION IS ATTAINED IN ALL AREAS OF THE BUILDING(S). A 4' X 4' SPACE ON THE TELEPHONE BACKBOARD(S) SHALL BE ALLOCATED IN THE MAIN TELECOMMUNICATIONS DISTRIBUTION LOCATION(S) FOR THE AMPLIFIER AND ALL CABLE WILL BE RUN BACK TO THIS LOCATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING A PATHWAY (1"C MINIMUM) FROM THE AMPLIFIER LOCATION TO THE ROOF (THROUGH A PITCH POCKET) FOR A RADIO SYSTEMS ANTENNA. CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED RADIO COMMUNICATIONS CONTRACTOR TO PROVIDE A COMPLETE DESIGN. DESIGN, INSTALLATION, AND MEET SECTION 510 OF THE NC STATE FIRE CODE SECTION 916 OF THE NC STATE BUILDING CODE.

PRIOR TO AMPLIFIER INSTALLATION (AFTER WALLS ARE CONSTRUCTED), THE GENERAL CONTRACTOR SHALL COMMISSION A TEST OF THE EMERGENCY RESPONDER FREQUENCY BANDS BY A QUALIFIED TESTING AGENCY. SHOULD THE SIGNALS BE FOUND TO BE SUFFICIENT, THE AMPLIFIER, ANTENNA AND ANY OTHER UNINSTALLED SYSTEM EQUIPMENT SHALL NOT BE INSTALLED AND A CORRESPONDING CREDIT BE ISSUED TO THE OWNER.





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. WGINEER

CRAVEN COMMUNITY COLLEGE-**PUBLIC SAFETY TRAINING CENTER**

525 Executive Pkwy New Bern, NC 28562

BID DOCUMENTS

SCO # 24-27879-01A

No. Date

Project Number 2407.SAFE

Drawn

BWS AS NOTED

Drawing Title

LEGEND, NOTES

07/28/25

Checked

ABBREVIATIONS Sheet Number Of 157

(1) 2" UNDERGROUND CONDUIT_ -ETR DUKE ENERGY UTILITY POLE -GUARD HOUSE/ GATEHOUSE (2) 2" UNDERGROUND CONDUIT 2 -PROPOSED PRIMARY CONDUIT ROUTE PROVIDED BY DUKE ENERGY INDOOR RANGE CLASSROOM-(1) 2" UNDERGROUND CONDUIT 2 (2) 2" UNDERGROUND CONDUIT 2 RS1-2,4 3 BURN BUILDING/ DRILL TOWER -SMOKE GENERATOR, 120V. COORDINATE EQUIPMENT CONNECTION DETAILS WITH ACTUAL EQUIPMENT PROVIDED. BURN PAD-RS1-1,3 3 REHAB/ STORAGE # PROVIDE 4" EC WITH PULL STRING FROM PANEL MDP AT ELECTRICAL SERVICE RACK TO STUB UP LOCATION INDICATED. CAP AND MARK STUB UP. MAINTENANCE STORAGE RS2-2,4 1 X4 —TYPE "SA" AREA FLOOD LIGHT POLE. REFER TO "TYPE S FLOOD LIGHT POLE DETAIL" ON SHEET E-503 FOR DETAILS 4 — REHAB/ STORAGE #2 RS2-5,7 1

SITE PLAN

SCALE: 1" = 80'-0"

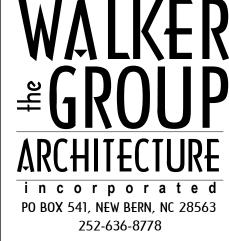
NOTES THIS SHEET

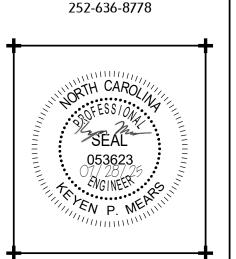
1 CIRCUIT VIA LIGHTING RELAY PANEL "LRP-2"

2 REFER TO "DUCTBANK TRENCH DETAIL TYPE A (PAVEMENT) - COMM" AND "DUCTBANK TRENCH DETAIL TYPE A (SOIL) - COMM" ON SHEET E-501 FOR ADDITIONAL INFORMATION AS APPLICABLE.

3 CIRCUIT VIA LIGHTING RELAY PANEL "LRP-1"

4 LIGHT FIXTURES, ASSOCIATED POLES, CONCRETE BASES, CONDUIT AND WIRE SHALL BE PROVIDED AS PART OF "BID ALTERNATE 04". REFER TO SHEET GI001 FOR BID ALTERNATE DETAILS.

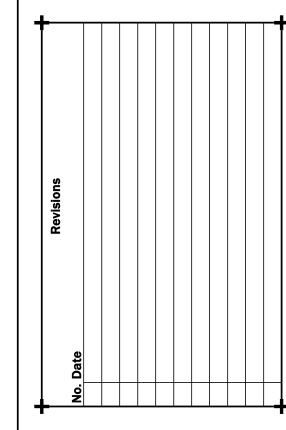




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BWS

Orawn BWS Scale

AS NOTED

Drawing Title

SITE PLAN

GRAPHIC SCALE(S)

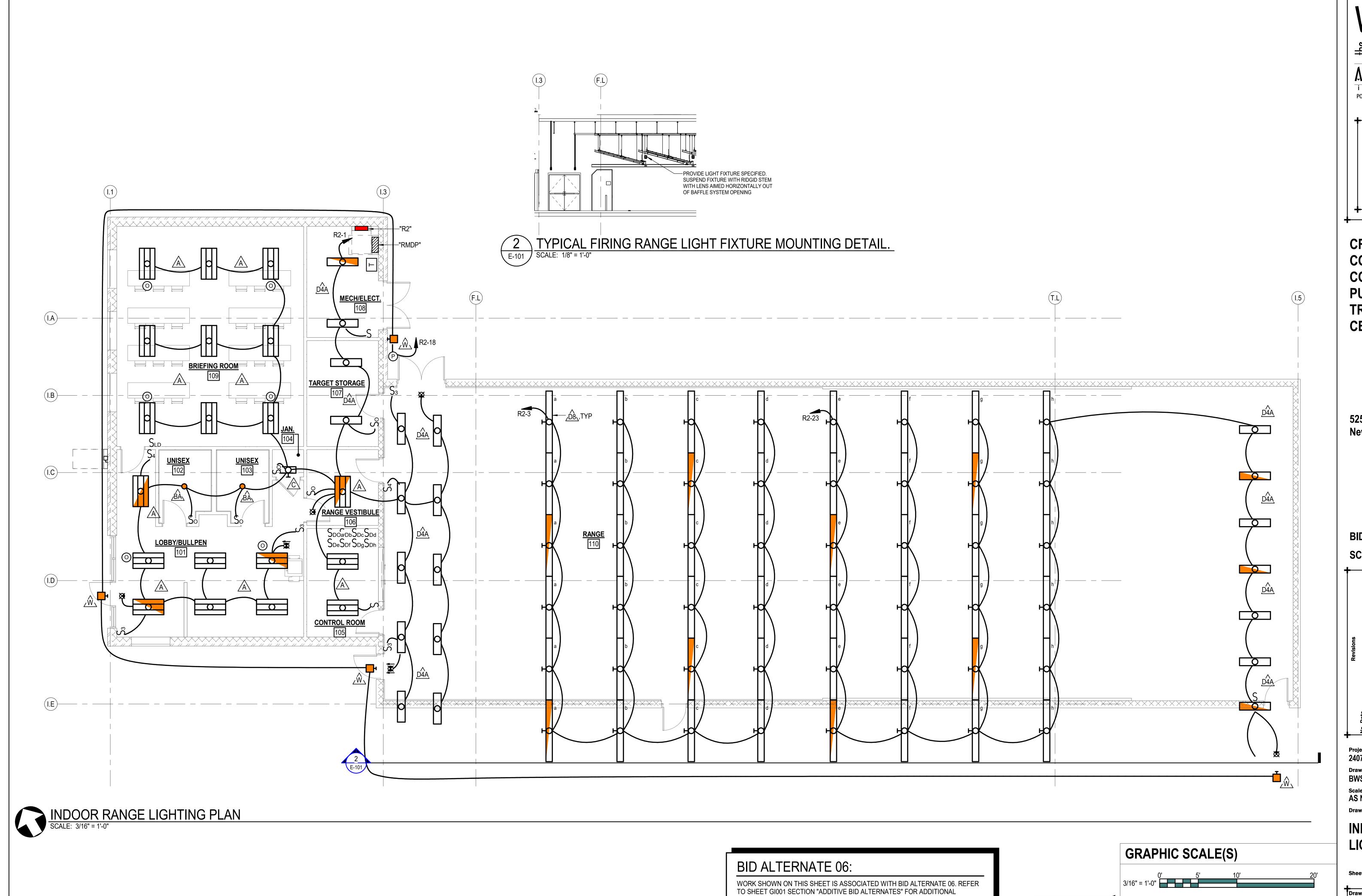
ALTERNATES. REFER TO SHEET GI001 SECTION "ADDITIVE BID ALTERNATES" FOR ADDITIONAL INFORMATION.

BID ALTERNATES:

1" = 80'-0"

Sheet Number Of 157

Drawing Number
E-002

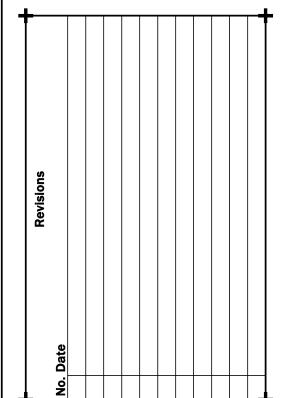


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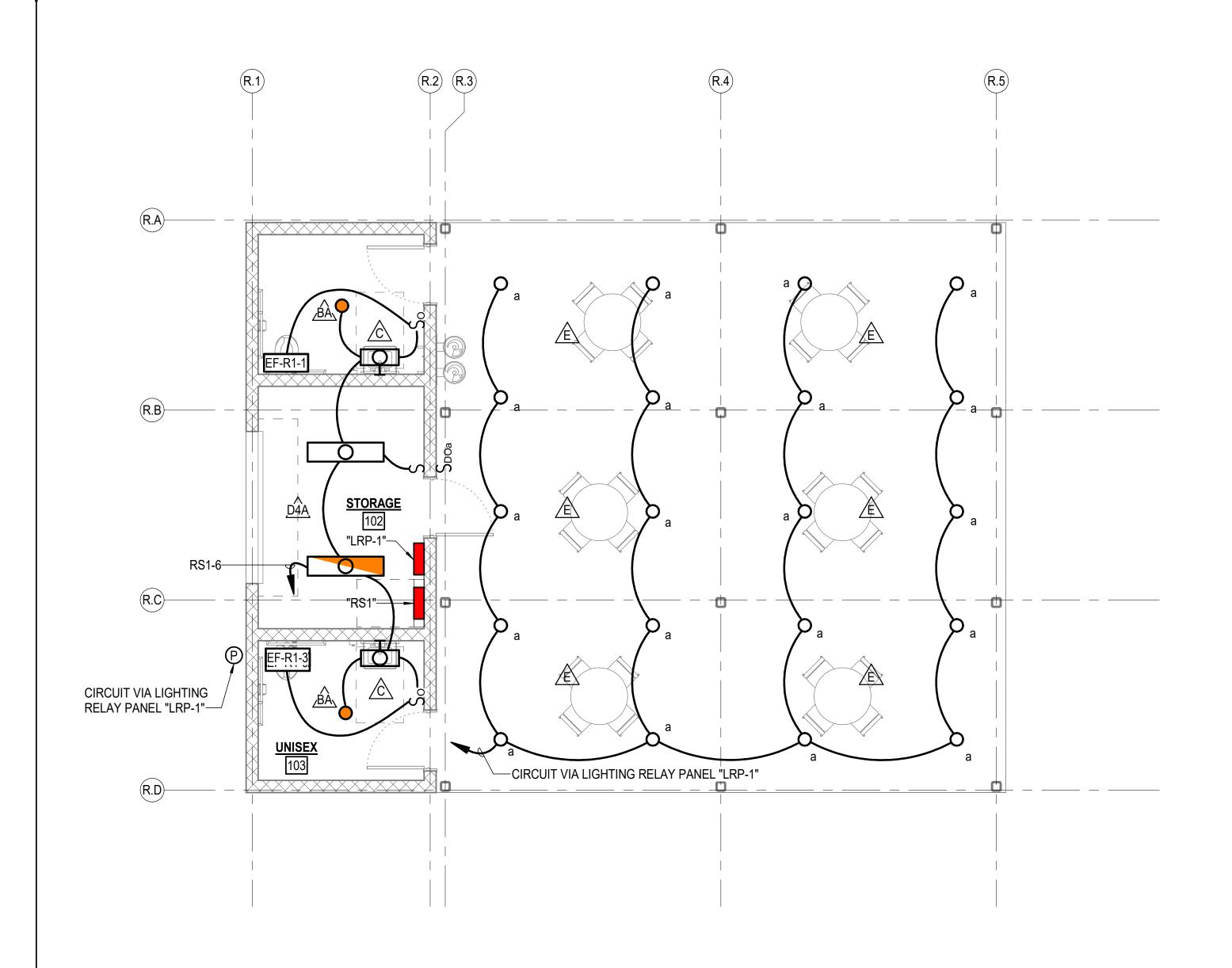
Scale AS NOTED **Drawing Title**

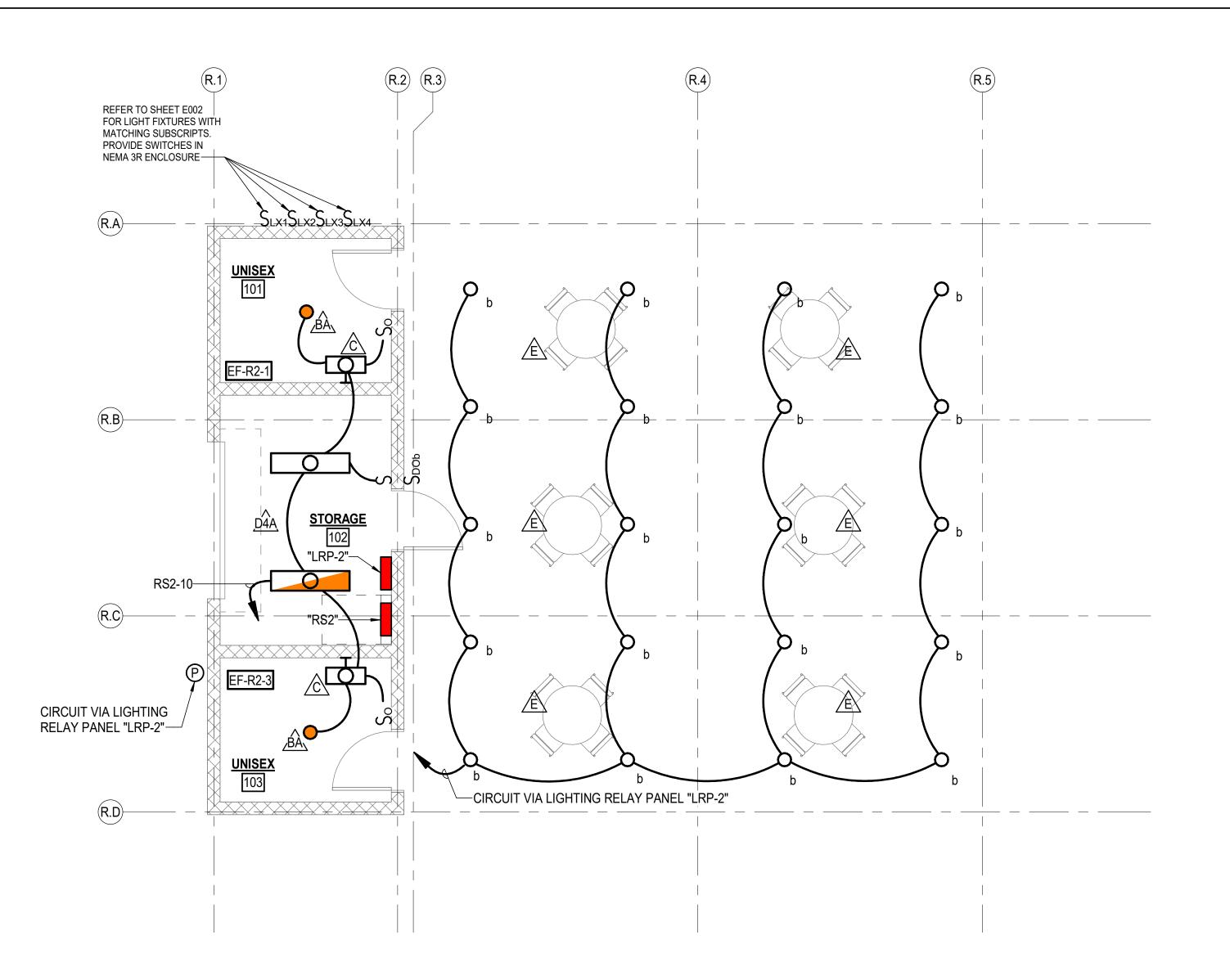
INDOOR RANGE LIGHTING PLAN

Sheet Number

WORK SHOWN ON THIS SHEET IS ASSOCIATED WITH BID ALTERNATE 06. REFER TO SHEET GI001 SECTION "ADDITIVE BID ALTERNATES" FOR ADDITIONAL INFORMATION.



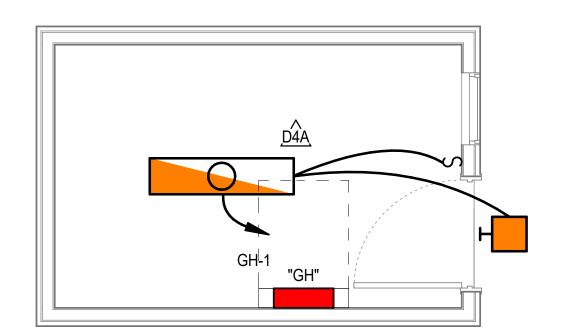




REHAB SHELTER 1 LIGHTING PLAN

SCALE: 1/4" = 1'-0"



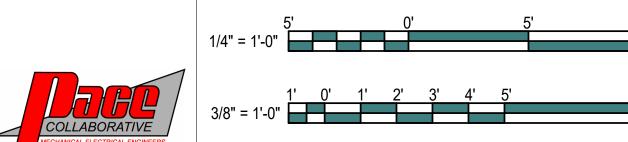


GATEHOUSE LIGHTING PLAN

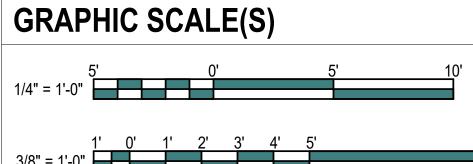
SCALE: 3/8" = 1'-0"

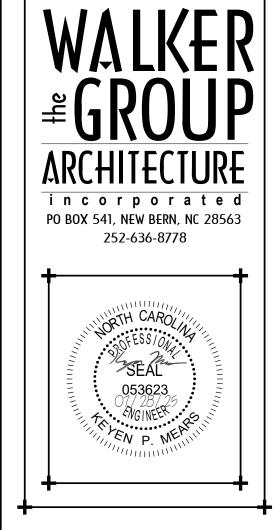
BID ALTERNATES 03 AND 05:

ADDITIONAL INFORMATION.



WORK SHOWN ON THIS SHEET IS ASSOCIATED WITH BID ALTERNATES 03 AND 05. REFER TO SHEET GI001 SECTION "ADDITIVE BID ALTERNATES" FOR

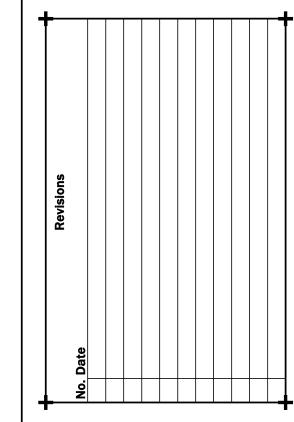




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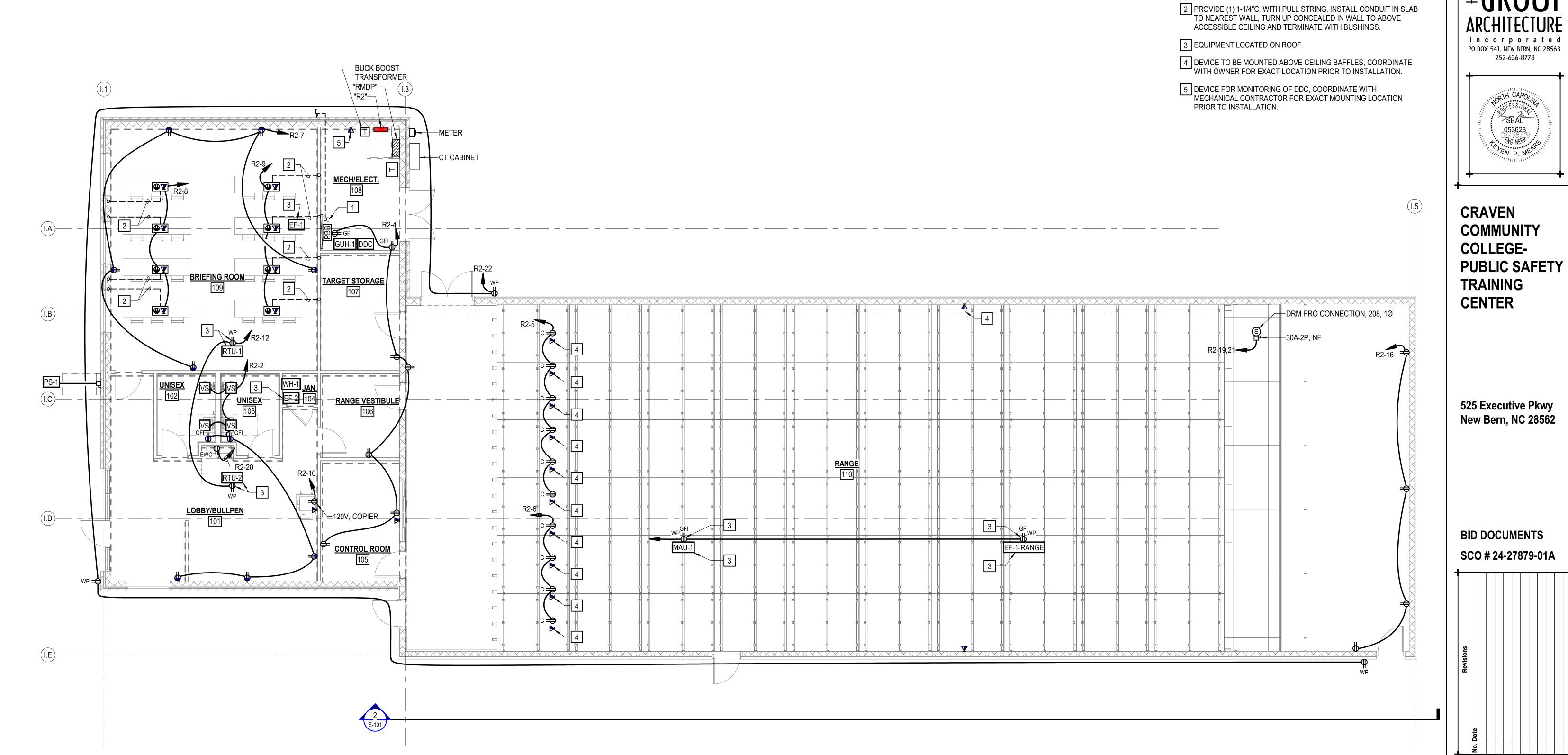


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Project Number 2407.SAFE

Scale AS NOTED **Drawing Title**

LIGHTING FLOOR **PLANS**

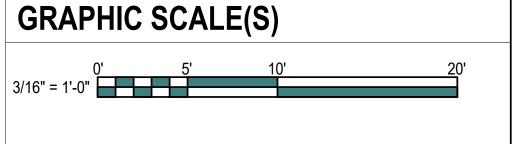


INDOOR RANGE POWER AND SPECIAL SYSTEMS FLOOR PLAN SCALE: 3/16" = 1'-0"

	ELEC	TRICA	L CON	NECT	ION S	CHED	ULE - INI	DOOR RANGE	
TAG	MCA	kW/HP	FLA	VOLTAGE	Ø	MOCP	CKT	DISCONNECT	NOTES
RTU-1	14	-	11.2 A	480 V	3Ø	20	RMDP-2,4,6	30A-2P, FU@20A, 3R	1
RTU-2	11	-	8.8 A	480 V	3Ø	15	RMDP-7,9,11	30A-2P, FU@15A, 3R	1
EF-1	-	1/8 HP	3 A	120 V	1Ø	-	R2-11	INTEGRAL DISCONNECT	1
EF-2	-	1/6HP	4.4 A	120 V	1Ø	-	R2-13	INTEGRAL DISCONNECT	1
DDC	-	-	3 A	120 V	1Ø	-	R2-25	30A-2P,NF	1
EF-1-RANGE	-	60 HP	77 A	480 V	3Ø	-	RMDP-13,15,17	200A-3P, FU@150A, 3R	1
GUH-1	-	-	1 A	120 V	1Ø	-	R2-14	-	1
MAU-1	191	-	183 A	480 V	3Ø	200	R2-24,26	200A-3P, FU@200A, 3R	1
PS-1	-	2 HP	12 A	240 V	1Ø	-	Buck boost-1	30A-2P,NF	1
NOTES: I-1	-	3KW	14.4 A	208 V	1Ø	-	R2-15,17	30A-2P,NF	1

1. COORDINATE ALL CONNECTIONS TO EQUIPMENT WITH MECHANICAL SUB-CONTRACTOR AND APPROVED SHOP DRAWINGS.

BID ALTERNATE 06:

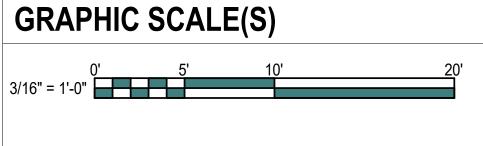




NOTES THIS SHEET

1 (1) 2" C., SCHEDULE 40 PVC WITH PULL STRING TO PULLBOX, REFER TO SITE PLAN, SHEET E-002 FOR ADDITIONAL INFORMATION.

WORK SHOWN ON THIS SHEET IS ASSOCIATED WITH BID ALTERNATE 06. REFER TO SHEET GI001 SECTION "ADDITIVE BID ALTERNATES" FOR ADDITIONAL INFORMATION.



SCHEDULES Sheet Number

POWER AND SS

FLOOR PLAN &

Project Number 2407.SAFE

Scale AS NOTED

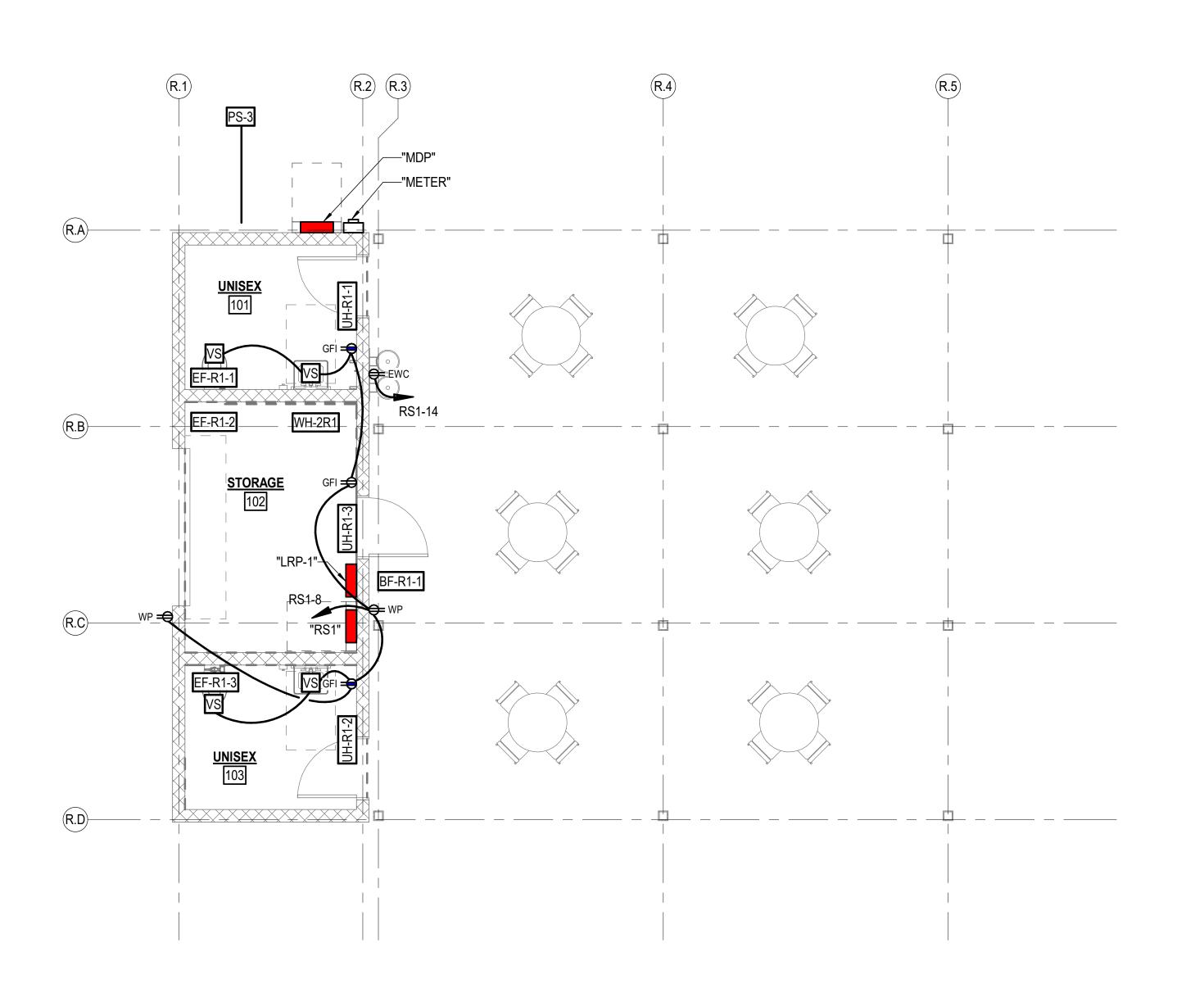
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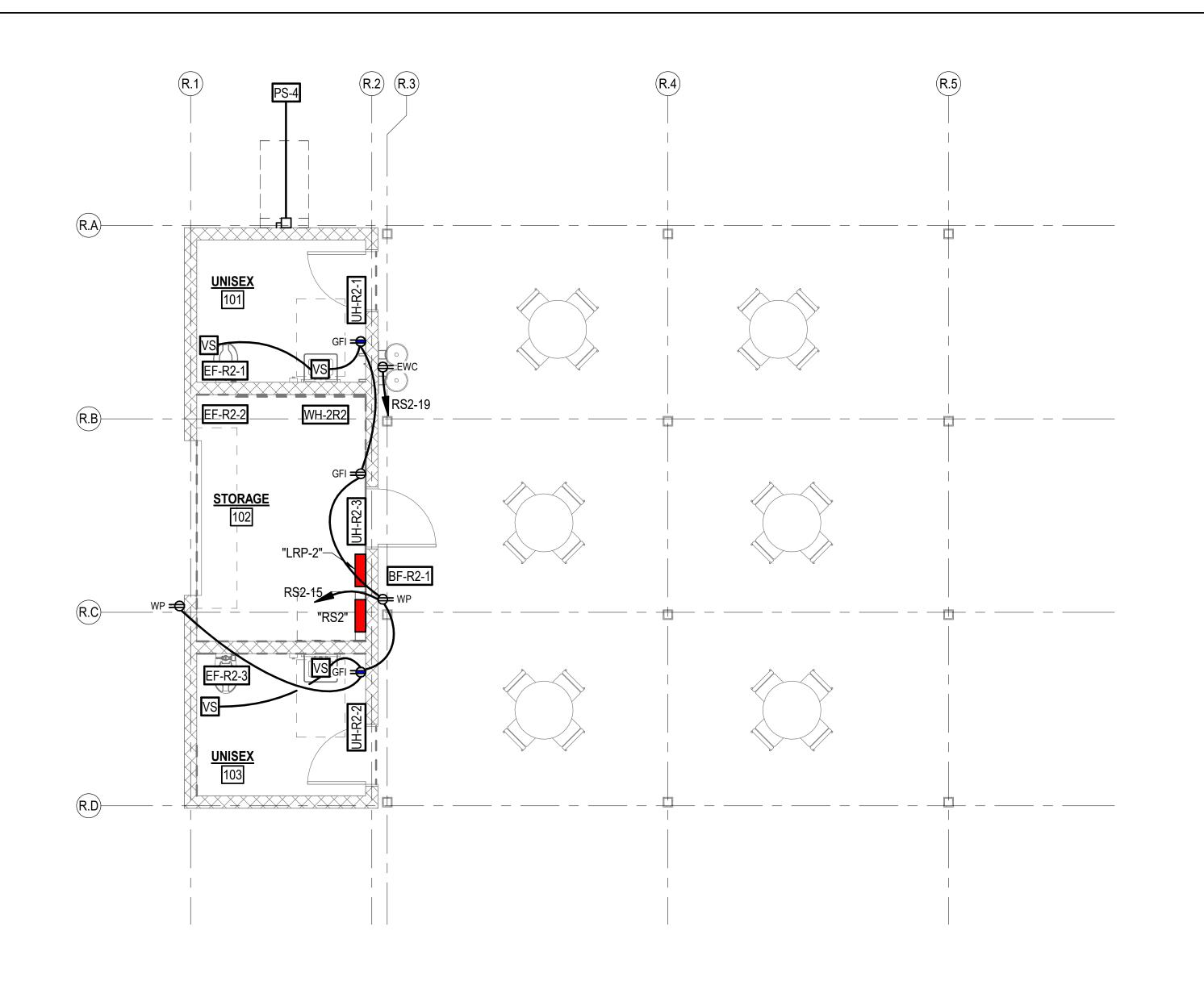
Date 07/28/25

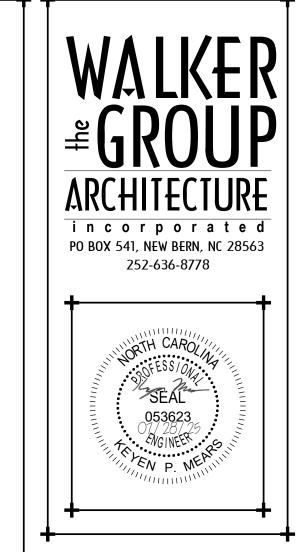
incorporated

PO BOX 541, NEW BERN, NC 28563 252-636-8778

2. PROVIDE WITH 208V - 240V BUCK BOOST TRANSFORMER.



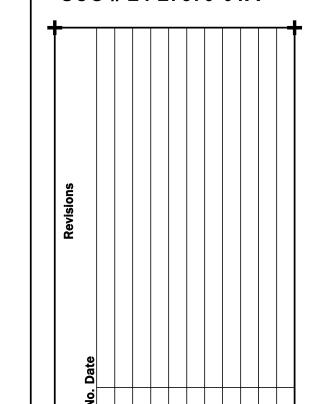




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BID DOCUMENTS SCO # 24-27879-01A



2407.SAFE

AS NOTED Drawing Title

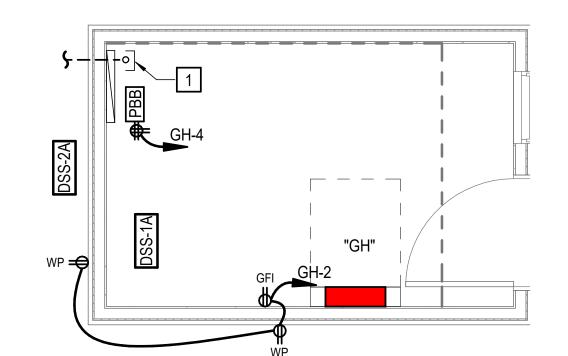
POWER AND SS FLOOR PLANS & **SCHEDULES**

07/28/25

Sheet Number

REHAB SHELTER 2 POWER PLAN

SCALE: 1/4" = 1'-0"



E	ELECTRICAL CONNECTION SCHEDULE - REHAB SHELTER 1										
TAG	MCA	kW/HP	FLA	VOLTAGE	Ø	MOCP	CKT	DISCONNECT	NOTES		
BF-R1-1	-	1/2 HP	9.8 A	120 V	1Ø	-	RS1-12	30A-2P,NF	1		
UH-R1-1	-	-	7.5 A	120 V	1Ø	-	RS1-5	MOTOR RATED SWITCH	1		
UH-R1-2	-	-	7.5 A	120 V	1Ø	-	RS1-7	MOTOR RATED SWITCH	1		
UH-R1-3	-	-	10.4 A	120 V	1Ø	-	RS1-9	MOTOR RATED SWITCH	1		
EF-R1-1	-	-	0.1 A	120 V	1Ø	-	RS1-6	INTEGRAL DISCONNECT	1		
EF-R1-2	-	-	0.1 A	120 V	1Ø	-	RS1-10	INTEGRAL DISCONNECT	1		
EF-R1-3	-	-	0.2 A	120 V	1Ø	-	RS1-6	INTEGRAL DISCONNECT	1		
PS-3	-	2 HP	12 A	240 V	1Ø	-		30A-2P,NF	1		
WH-2R1	_	2KW	8.3 A	240 V	10	_	RS1-11.13	30A-2P.NF	1		

1. COORDINATE ALL CONNECTIONS TO EQUIPMENT WITH MECHANICAL SUB-CONTRACTOR AND APPROVED SHOP DRAWINGS.

E	ELECTRICAL CONNECTION SCHEDULE - REHAB SHELTER 2										
TAG	MCA	kW / HP	FLA	VOLTAGE	Ø	MOCP	CKT	DISCONNECT	NOTES		
BF-R2-1	-	1/2 HP	9.8 A	120 V	1Ø	-	RS2-18	30A-2P,NF	1		
UH-R2-1	-	-	7.5 A	120 V	1Ø	-	RS2-11	MOTOR RATED SWITCH	1		
UH-R2-2	-	-	7.5 A	120 V	1Ø	-	RS2-13	MOTOR RATED SWITCH	1		
UH-R2-3	-	-	10.4 A	120 V	1Ø	-	RS2-17	MOTOR RATED SWITCH	1		
EF-R2-1	-	-	0.1 A	120 V	1Ø	-	RS2-10	INTEGRAL DISCONNECT	1		
EF-R2-2	-	-	0.1 A	120 V	1Ø	-	RS2-12	INTEGRAL DISCONNECT	1		
EF-R2-3	-	-	0.2 A	120 V	1Ø	-	RS2-10	INTEGRAL DISCONNECT	1		
PS-4	-	2 HP	12 A	240 V	1Ø	-		30A-2P,NF	1		
WH-2R2	-	2KW	8.3 A	240 V	1Ø	-	RS2-14,16	30A-2P,NF	1		

1. COORDINATE ALL CONNECTIONS TO EQUIPMENT WITH MECHANICAL SUB-CONTRACTOR AND APPROVED SHOP DRAWINGS.

	ELECTRICAL CONNECTION SCHEDULE - GUARD HOUSE									
TAG	MCA	kW / HP	FLA	VOLTAGE	Ø	MOCP	CKT	DISCONNECT	NOTES	
DSS-1A	-	-	1 A	240 V	1Ø	-		30A-2P,NF	1,2	
DSS-2A	11	-	8.8 A	240 V	1Ø	28	GH-3,5	30A-2P,NF, 3R	1,2	

1. COORDINATE ALL CONNECTIONS TO EQUIPMENT WITH MECHANICAL SUB-CONTRACTOR AND APPROVED SHOP DRAWINGS.

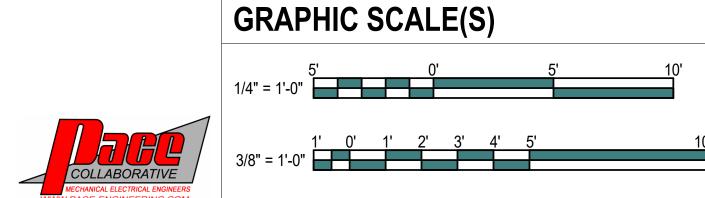
2. INTERCONNECT DSS-1A (INDOOR UNIT) TO DSS-2A (OUTDOOR UNIT) PER MANUFACTURER'S RECOMMENDATIONS

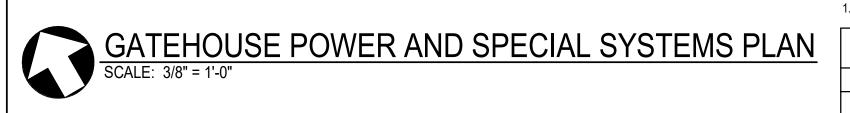
NOTES THIS SHEET

1 (1) 2" C., SCHEDULE 40 PVC WITH PULL STRING TO PULLBOX, REFER TO SITE PLAN, SHEET E-002 FOR ADDITIONAL INFORMATION.

BID ALTERNATES 03 AND 05:

WORK SHOWN ON THIS SHEET IS ASSOCIATED WITH BID ALTERNATES 03 AND 05. REFER TO SHEET GI001 SECTION "ADDITIVE BID ALTERNATES" FOR ADDITIONAL INFORMATION.





REHAB SHELTER 1 POWER PLAN

SCALE: 1/4" = 1'-0"

(C.3) CLASSROOM 1 WOMENS BATHROOM 105 MENS BATHROOM 104 UNISEX 106 MODULAR CLASSROOM POWER AND SPECIAL SYSTEMS PLAN SCALE: 1/4" = 1'-0"

ELECTRICAL CONNECTION SCHEDULE - PUMP STATION NOTES DISCONNECT PS-2 12 A 240 V 30A-2P,NF 2 HP 1Ø

NOTES THIS SHEET

1 (2) 2" C., SCHEDULE 40 PVC WITH PULL STRING TO PULLBOX, REFER TO SITE PLAN, SHEET E-002 FOR ADDITIONAL INFORMATION.

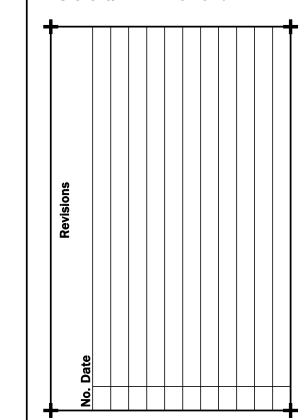
2 MODULAR CLASSROOM PANEL FEEDER FROM PANELBOARD MDP.
REFER TO RISER DIAGRAM FOR FEEDER DETAILS. COORDINATE
EXACT PANEL CONNECTION LOCATION WITH CLASSROOM PROVIDER.



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Project Number 2407.SAFE

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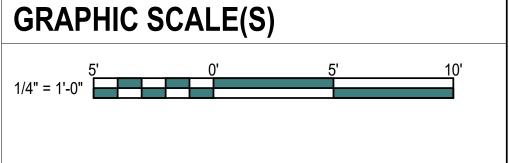
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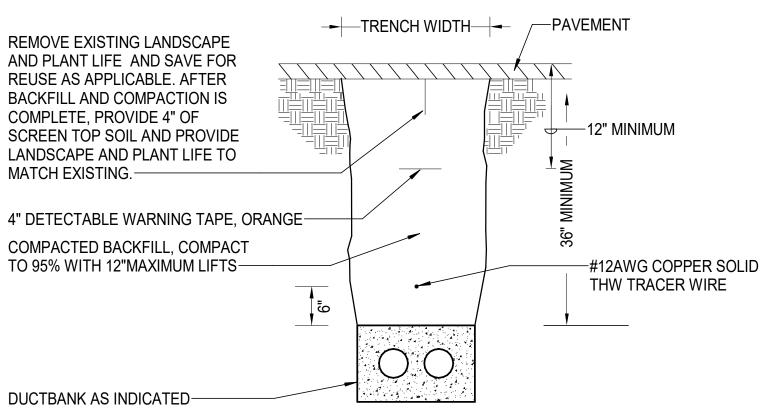
MODULAR CLASSROOM **POWER & SS PLAN** Sheet Number

Date 07/28/25

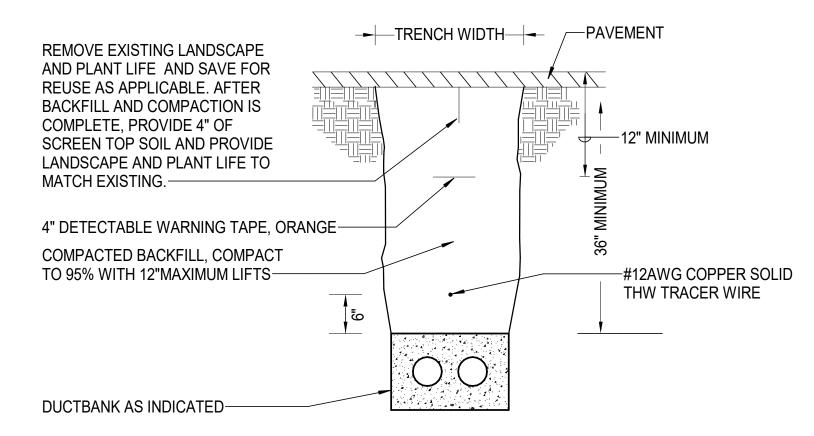
BID ALTERNATE 02:

WORK SHOWN ON THIS SHEET IS ASSOCIATED WITH BID ALTERNATE 02. REFER TO SHEET GI001 SECTION "ADDITIVE BID ALTERNATES" FOR ADDITIONAL INFORMATION.

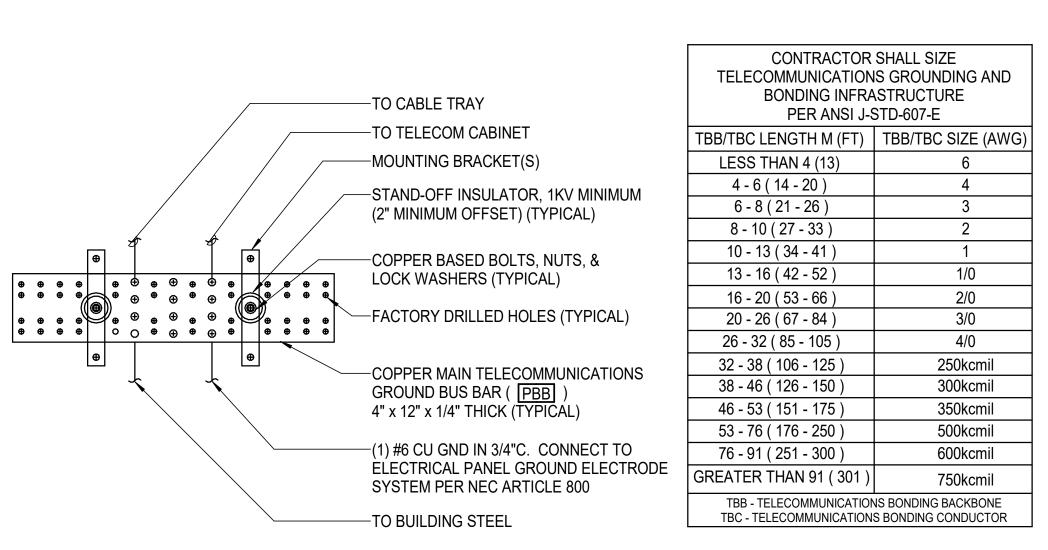




DUCTBANK TRENCH DETAIL TYPE A (PAVEMENT) - COMM



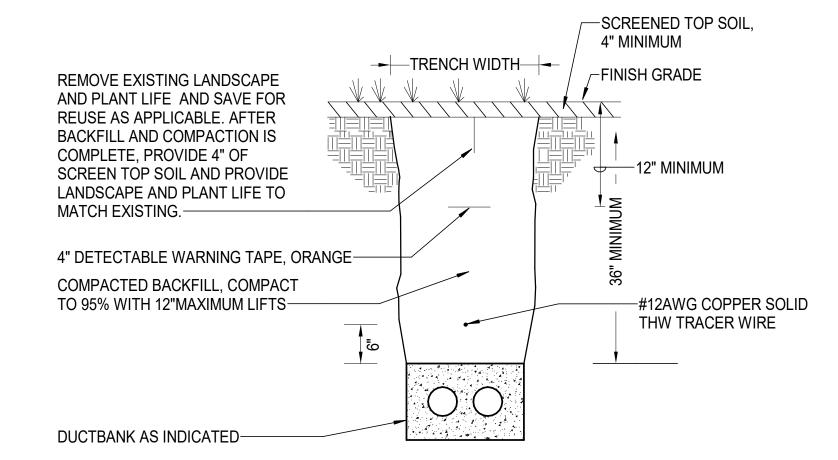
DUCTBANK TRENCH DETAIL TYPE A (PAVEMENT) - POWER



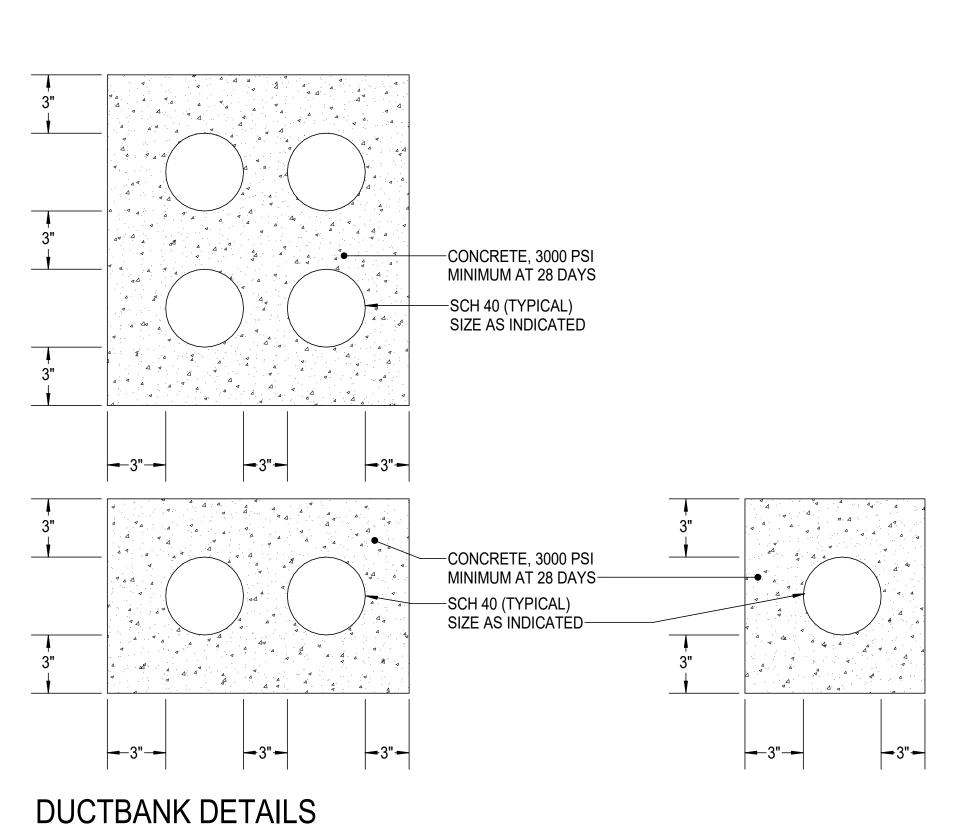
PRIMARY BONDING BUSBAR

-SCREENED TOP SOIL. 4" MINIMUM TRENCH WIDTH -FINISH GRADE REMOVE EXISTING LANDSCAPE AND PLANT LIFE AND SAVE FOR REUSE AS APPLICABLE. AFTER BACKFILL AND COMPACTION IS COMPLETE, PROVIDE 4" OF -12" MINIMUM SCREEN TOP SOIL AND PROVIDE LANDSCAPE AND PLANT LIFE TO MATCH EXISTING. 4" DETECTABLE WARNING TAPE, ORANGE-COMPACTED BACKFILL, COMPACT TO 95% WITH 12"MAXIMUM LIFTS--#12AWG COPPER SOLID THW TRACER WIRE **DUCTBANK AS INDICATED**

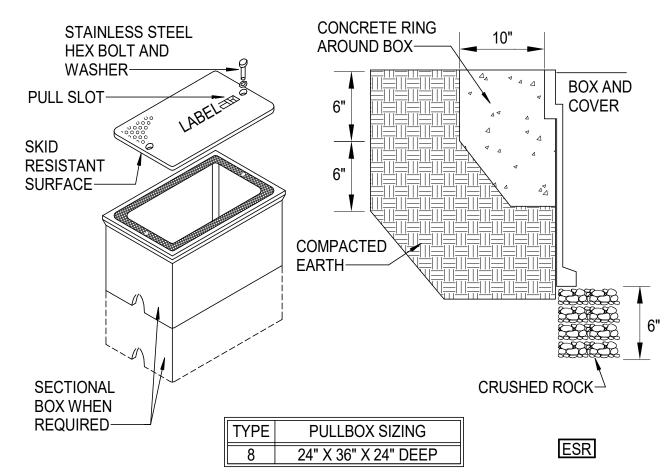
DUCTBANK TRENCH DETAIL TYPE A (SOIL) - COMM



DUCTBANK TRENCH DETAIL TYPE A (SOIL) - POWER NO SCALE



NO SCALE

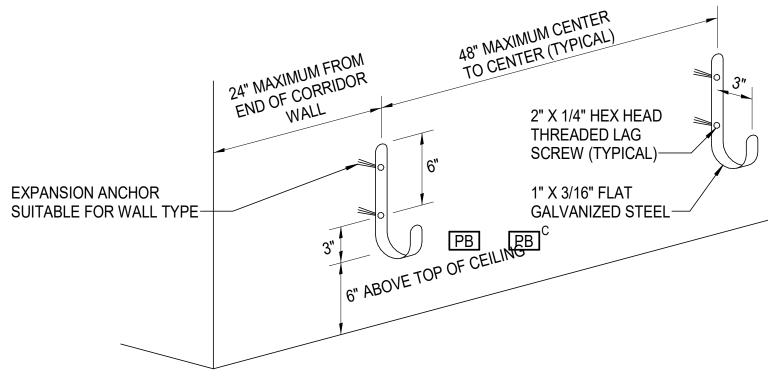


PULLBOX REQUIREMENTS:

- 1. NOMINAL INSIDE DIMENSIONS: (18"W X 30L") X 24"D (BOX EXTENSIONS ARE ACCEPTABLE AS NECESSARY TO OBTAIN REQUIRED DEPTH).
- 2. CONSTRUCTED OF POLYMER CONCRETE OR REINFORCED FIBERGLASS.
- 3. LOAD DESIGN: 8000 LB LOAD OVER A 10" SQUARE.
- 4. STANDARD GREEN COLOR.

PULLBOX DETAIL

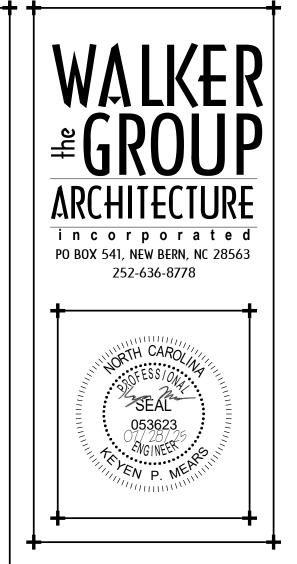
NO SCALE



NOTE:

1. DO NOT EXCEED 80% OF THE MANUFACTURER'S MAXIMUM FILL CAPACITY.
PROVIDE THIS INFORMATION WITHIN SUBMITTALS FOR VERIFICATION.
PROVIDE ADDITIONAL TIERS AS REQUIRED TO ENSURE ALL CABLES ARE
PROPERLY SUPPORTED.

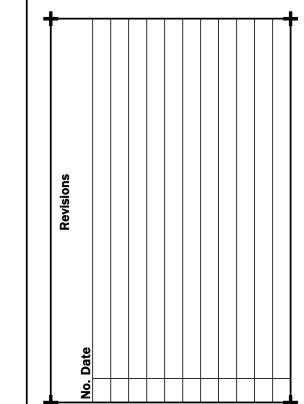
J-HOOK CABLE MANAGEMENT DETAIL



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Project Number 2407.SAFE

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Scale
AS NOTED
Drawing Title

07/28/25

JEB

DETAILS

Sheet Number Of 157

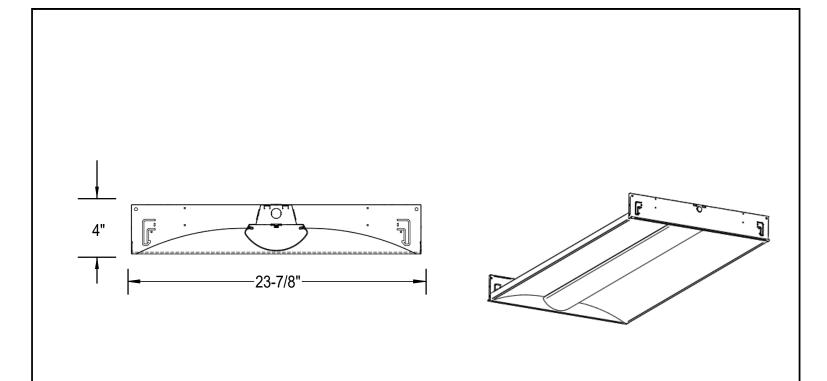
Drawing Number

E-501

COLLABORATIVE

MECHANICAL ELECTRICAL ENGINEERS

WWW.PACE-ENGINEERING.COM



LUMINAIRE DESCRIPTION:

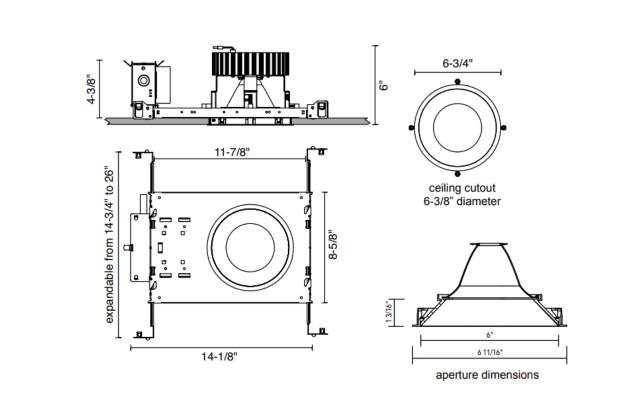
- 1. HOUSING SHALL BE DIE FORMED CODE GAUGE COLD ROLLED STEEL.
- 2. LENS SHALL BE CURVED ACRYLIC.
- 3. FINISH SHALL BE MATTE WHITE PAINT.
- 4. FIXTURE SHALL HAVE HIGH PERFORMANCE LED DRIVER.
- 5. FIXTURE SHALL BE UL LISTED, SUITABLE FOR DAMP LOCATIONS.
- 6. PROVIDE FIXTURE WITH 0-10VDC DIMMING TO 1%.
- 7. PROVIDE BATTERY BACK-UP WHERE INDICATED.



DETAIL BASED ON COLUMBIA LIGHTING, "LCAT24" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
A	3,626	4000K LED	26.4	120	RECESSED, CEILING

LED RECESSED TROFFER



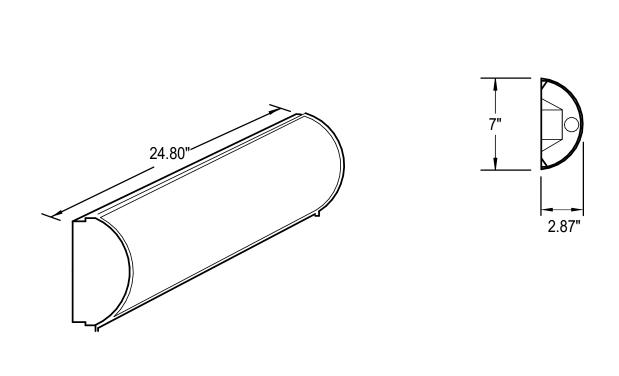
LUMINAIRE DESCRIPTION:

- 1. HOUSING SHALL BE 16 GAUGE COLD ROLLED STEEL.
- 2. PROVIDE REFLECTOR DIE-FORMED OF 0.40 LOW IRIDESCENT ALUMINUM AND SELF-FLANGED WITH 70° DISTRIBUTION.
- 3. FIXTURE TRIM AND BEZEL SHALL BE WHITE.
- 4. HIGH-EFFICIENCY, INTEGRAL ELECTRONIC LED DRIVER. PROVIDE WITH 0-10VDC DIMMING TO 10%.
- 5. FIXTURE SHALL BE UL LISTED, SUITABLE FOR DAMP LOCATION AND IC RATED.
- 6. PROVIDE BATTERY BACK-UP WHERE INDICATED. •
- 7. FIXTURE TYPE AS SHALL BE ADJUSTABLE TYPE SUITABLE FOR SLANTED CEILINGS.

DETAIL BASED ON ALPHABET, "NU6RD" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
∠BA∖	2,540	4000K LED	26	120	RECESSED, CEILING

RECESSED 6" LED OPEN DOWNLIGHT



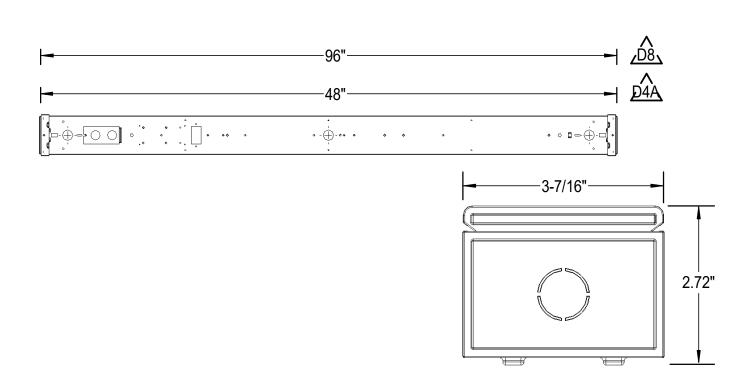
LUMINAIRE DESCRIPTION:

- HOUSING SHALL BE PAINTED OR PLATED SOLID ALUMINUM WITH A 1/8" MATTE WHITE EXTRUDED ACRYLIC PANEL
- 2. FIXTURE SHALL UTILIZE AN ELECTRONIC DRIVER
- 3. THE LENS SHALL BE HIGH IMPACT PEARLESCENT ACRYLIC. SMOOTH EXTERIOR, LINEAR PRISMATIC INTERIOR. NOMINAL THICKNESS .156". LENS SHALL LOCK IN PLACE WITH TAMPER-RESISTANT STAINLESS STEEL POSIGRIP FASTENERS.
- 4. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATIONS.

DETAIL BASED ON KENALL LIGHTING, "RHL7" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
<u>^</u>	2,702	4000K LED	25	120	SURFACE MOUNT, WALL

2' LED VANITY



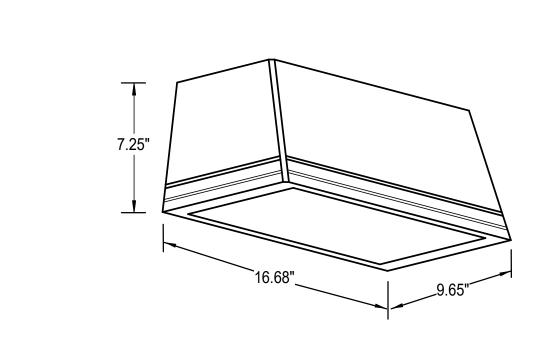
LUMINAIRE DESCRIPTION:

- 1. CHANNEL AND COVER ARE CODE GAUGE, COLD-ROLLED STEEL CONSTRUCTION. HOUSING AND LENS ENDOCARPS ARE MOLDED PLASTIC. FIXTURE SHALL HAVE A HIGH-GLOSS, BAKED, WHITE POLYESTER FINISH.
- 2. FIXTURE SHALL HAVE A FLAT DIFFUSE, ACRYLIC LENS.
- 3. LENS DRIVER SHALL BE STANDARD EFFICIENCY, ELECTRONIC, MULTIVOLT, DIMMABLE AT 0-10V, AND A MINIMUM OF CRI 80.
- 4. CSA CERTIFIED TO U.S. AND CANADIAN STANDARDS AND LISTED FOR USE IN DAMP LOCATIONS.
- 5. FIXTURE TYPE D4A SHALL BE 48"
- 6. FIXTURE TYPE \(\frac{\lambda}{D8} \) SHALL BE 96"

DETAIL BASED ON COLUMBIA LIGHTING, "MPS" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
D4A	2,573	4000K LED	18.1	120	PENDANT MOUNTED CABLE AT 8'-0" AFF
<u>√</u> D8√	5,146	4000K LED	36.2	120	SURFACE, CEILING

LED LENSED STRIP



LUMINAIRE DESCRIPTION:

- 1. FIXTURE SHALL BE DIE-CAST ALUMINUM HOUSING.
- 2. FINISH SHALL BE SELECTED BY ARCHITECT.
- 3. FIXTURE SHALL HAVE TYPE IV DISTRIBUTION.
- FIXTURE SHALL BE UL LISTED FOR WET LOCATIONS.
- 5. PROVIDE WITH BUTTON PHOTOCONTROL.
- PROVIDE INTEGRAL BATTERY BACK-UP WHERE INDICATED.

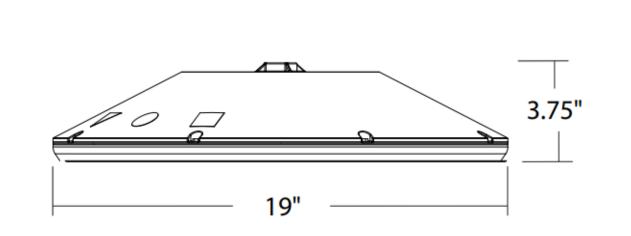
 BATTERY BACK-UP SHALL HAVE INDEPENDENT SECONDARY

 DRIVER TO COMPLY WITH NEC 700.16

DETAIL BASED ON CURRENT LIGHTING, "TRP2" SERIES

	MENS LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
4,23	,233 4000K LED	32.1	120	SURFACE, WALL, 12'-0" AFG

LED WALLPACK



LUMINAIRE DESCRIPTION:

- 1. HOUSING SHALL BE DIE-CAST ALUMINUM.
- 2. LENS SHALL BE PRISMATIC ACRYLIC LENS.
- 3. DRIVER SHALL BE HIGH PERFORMANCE LED DRIVER.
- 4. FINISH SHALL POWDER COATED PAINTED.

5. FIXTURE SHALL BE IP 66 RATED.

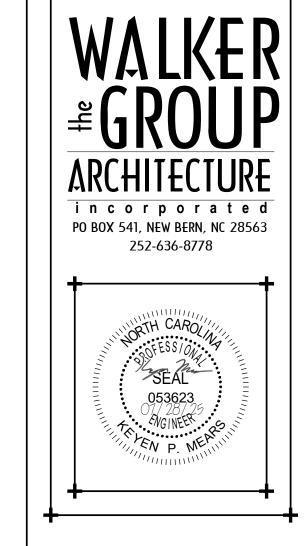
6. PROVIDE FIXTURE WITH INTEGRAL MOTION SENSOR THAT DIMS THE TOTAL

LIGHT OUTPUT OF THE FIXTURE BY 50%.

DETAIL BASED ON LITHONIA LIGHTING, "VCPG" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
€	3,681	4000K LED	27	120/277	SURFACE, CEILING

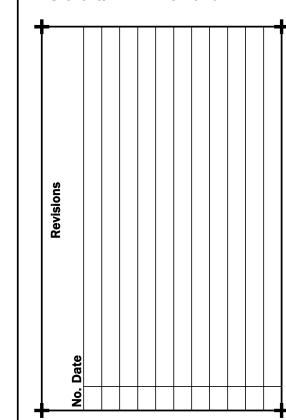
PARKING GARAGE LIGHT



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Project Number 2407.SAFE

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Drawing Title

DETAILS

Sheet Number

Of 157 Drawing Number

E-502



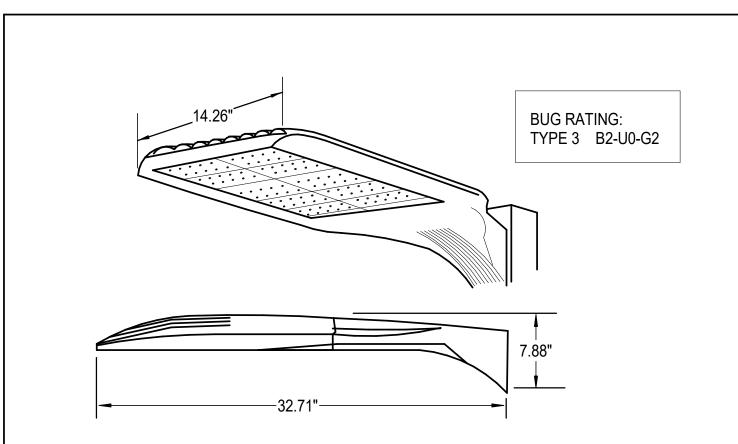
LUMINAIRE DESCRIPTION:

- 1. ALUMINUM HOUSING WITH HIGH-POLISH, INJECTION-MOLDED VIRGIN ACRYLIC EDGE-LIT PANEL. GRADUATED DEPTH OF MOLDED LETTERS PROVIDES UNIFORM LIGHT DISTRIBUTION ON GRAPHICS.
- 2. 6" TALL LETTERS.
- 3. RED ILLUMINATION PROVIDED BY LIGHT EMITTING DIODES (LED).
- 4. DIRECTIONAL ARROWS AS INDICATED.
- 5. UNIVERSAL MOUNTING.
- 6. BRUSHED ALUMINUM AND CLEAR ACRYLIC FINISH.
- 7. POWER FAILURE PROTECTION, BROWN OUT PROTECTION AND SURGE PROTECTION.
- 8. SEALED MAINTENANCE FREE NICKEL CADMIUM BATTERY WITH SOLID STATE CHARGER, WITH OVERCHARGE PROTECTION.
- EST BUTTON IN BOTTOM OF HOUSING
- INDICATES CEILING MOUNT.
- INDICATES WALL MOUNT 6" ABOVE DOOR TO BOTTOM OF FIXTURE.
- 10. INDICATOR LIGHTS IN FACE TO INDICATE WHEN UNIT IS ON NORMAL POWER OR ON BATTERY POWER

DETAIL BASED ON DUAL-LITE, "LE" SERIES

TYPE	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
⊗ Ā	LED	5	120/277	CEILING, WALL; UNIVERSAL MOUNT.

EDGE-LIT EXIT LIGHT



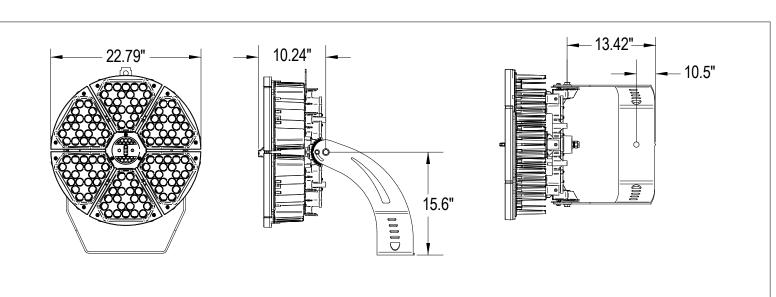
LUMINAIRE DESCRIPTION:

- 1. HOUSING: SINGLE PIECE DIE-CAST ALUMINUM.
- 2. DR1000MmA POWER FACTOR > 90% AND THD < 20%.
- 3. FIXTURE HAS 2 LIGHT ENGINES 4000K, 70 CRI MOUNTED TO A METAL-CORE CIRCUIT BOARD AND ALUMINUM HEAT SINK.
- REFLECTOR: FORMED ANODIZED ALUMINUM.
- 5. OPTICS: PRECISION-MOLDED ACRYLIC LENSES.
- 6. FINISH: ELECTROSTATIC POWDER COATING. FINISH COLOR SHALL BE BLACK.
- 7. RATINGS: UL LISTED FOR WET LOCATIONS. EPA: 1.2, ENCLOSURE CLASSIFIED IP66 PER IEC 529 AND TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.

DETAIL BASED ON LITHONIA, "DSX2 60C1000 LED" SERIES

TYPE	LUMENS	DISTRIBUTION TYPE	INPUT WATTS	VOLTAGE	MOUNTING
<u>SB</u>	26,597	TYPE III	179	120/240V	POLE MOUNTED, 25' AFG

LED AREA FIXTURE

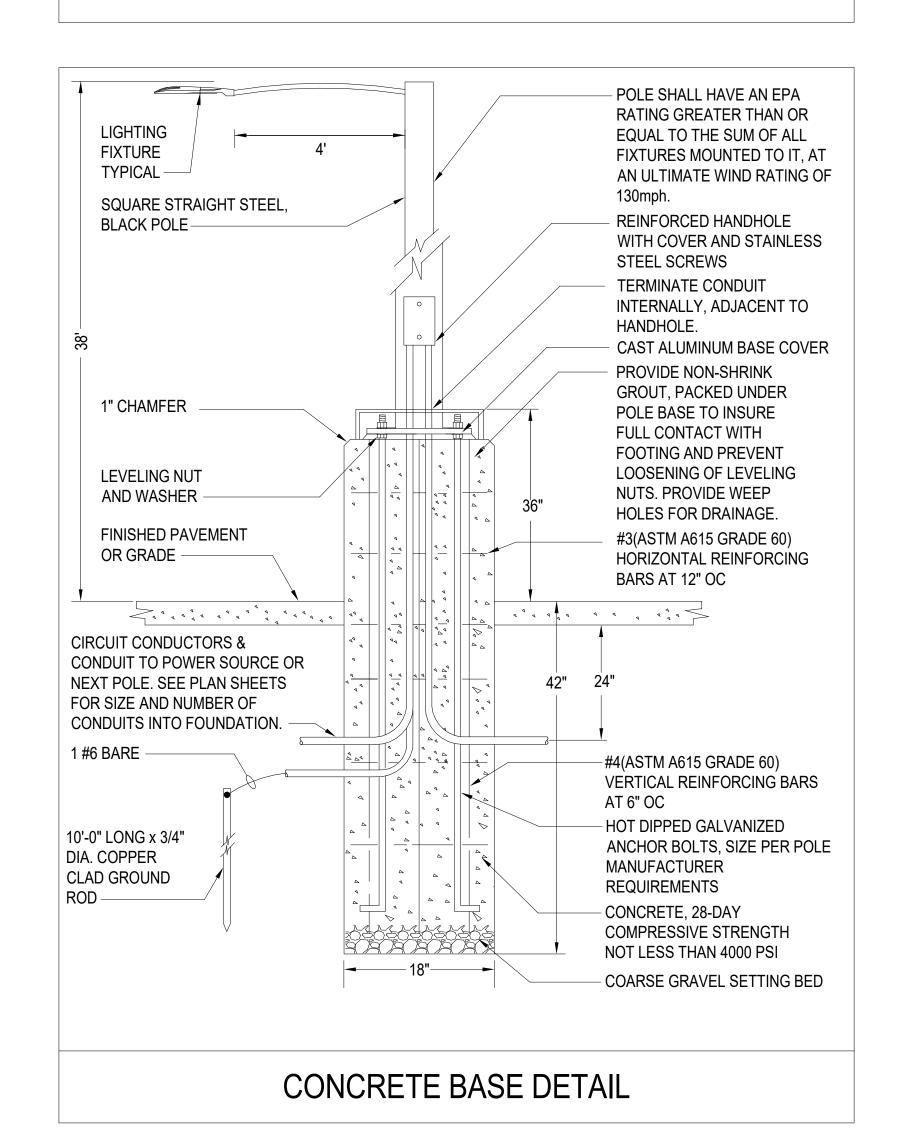


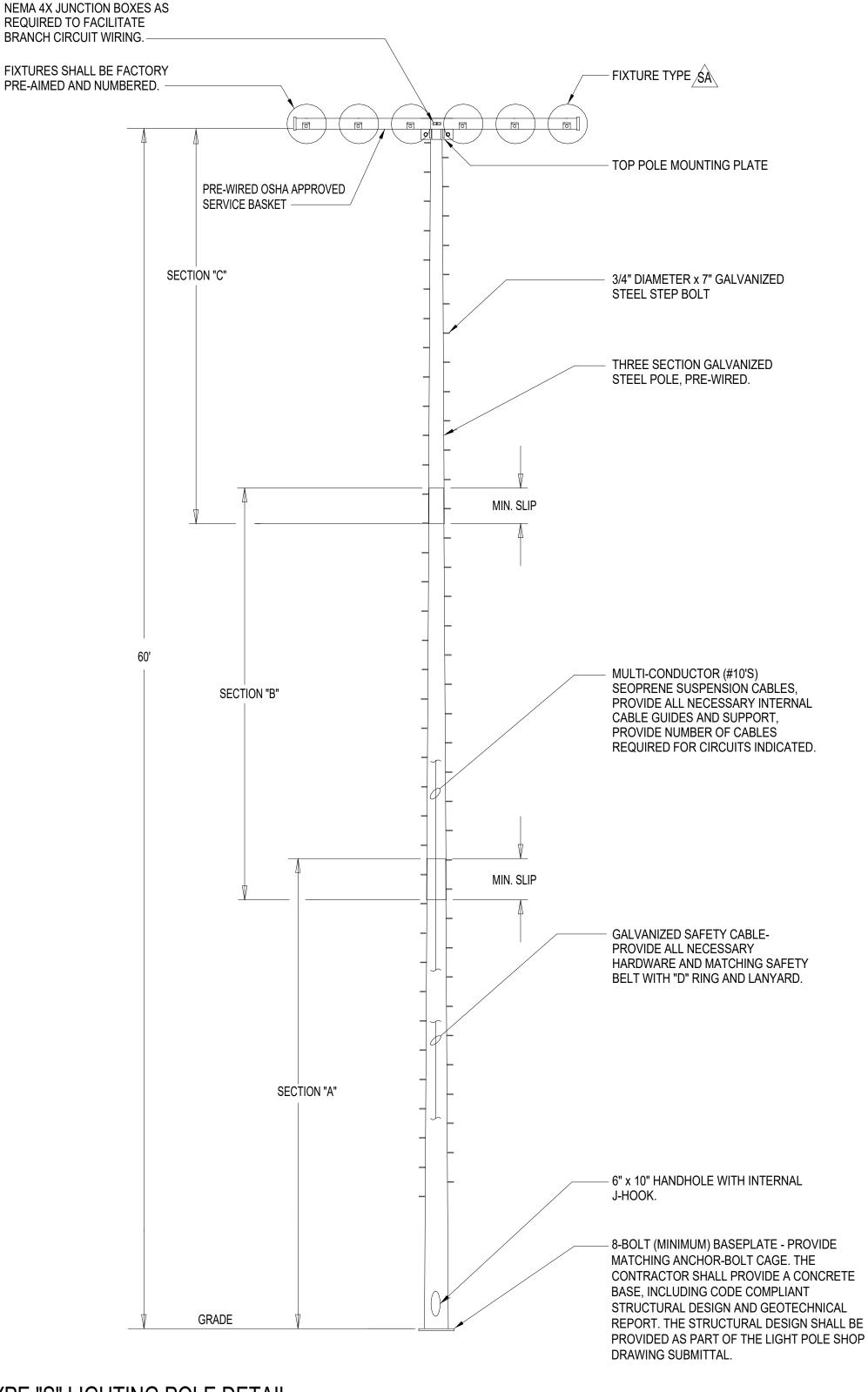
LUMINAIRE REQUIREMENTS:

- 1. HOUSING: DIE CAST ALUMINUM. ALL HARDWARE IS STAINLESS STEEL.
- 2. DRIVER: (1) REMOTE MOUNTED ENGINE WITH POWER FACTOR >90% AND THD <20%.
- 3. LEDS: MINIMUM CRI OF 70.
- 4. FINISH: UV STABILIZED POLYESTER POWDER COATING.
- 5. RATINGS: 40°C TO 25° OPERATING TEMPERATURE RANGE. 20KA SURGE PROTECTION. LISTED TO UL1598. TESTED IN ACCORDANCE WITH IESNA LM-79 AND LM-80 STANDARDS.
- MOUNTING: PROVIDE WITH HEAVY DUTY YOKE MOUNT TO ALLOW FOR HORIZONTAL AND VERTICAL AIMING.
- 7. PROGRAMMING OF CONTROLS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.

		DETAIL BASED ON	N BEACON LIGH	ITING, "TSI	L" SERIES
TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
SA	90,000	4000K LED	740W	240	POLER MOUNTED. REFER TO ASSOCIAT POLE DETAIL FOR HEIGHT

SPORTS LIGHTING FIXTURE

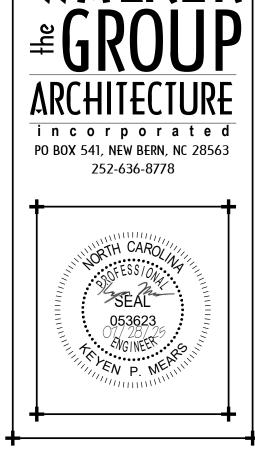




TYPE "S" LIGHTING POLE DETAIL

NO SCALE

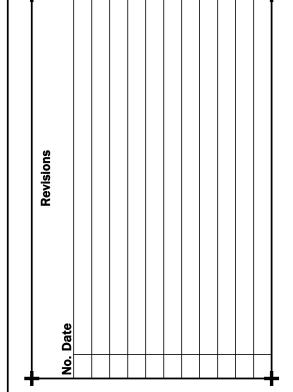
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CENTER

525 Executive Pkwy New Bern, NC 28562

BID DOCUMENTS SCO # 24-27879-01A



07/28/25

Checked

Project Number 2407.SAFE

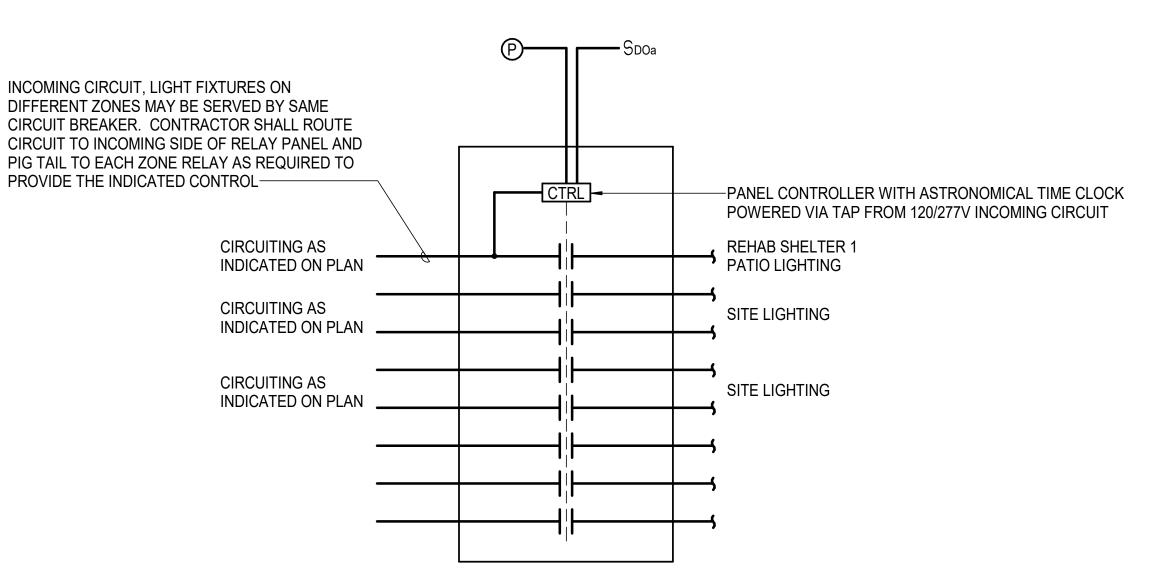
Drawn BWS

Scale
AS NOTED
Drawing Title

DETAILS

Sheet Number

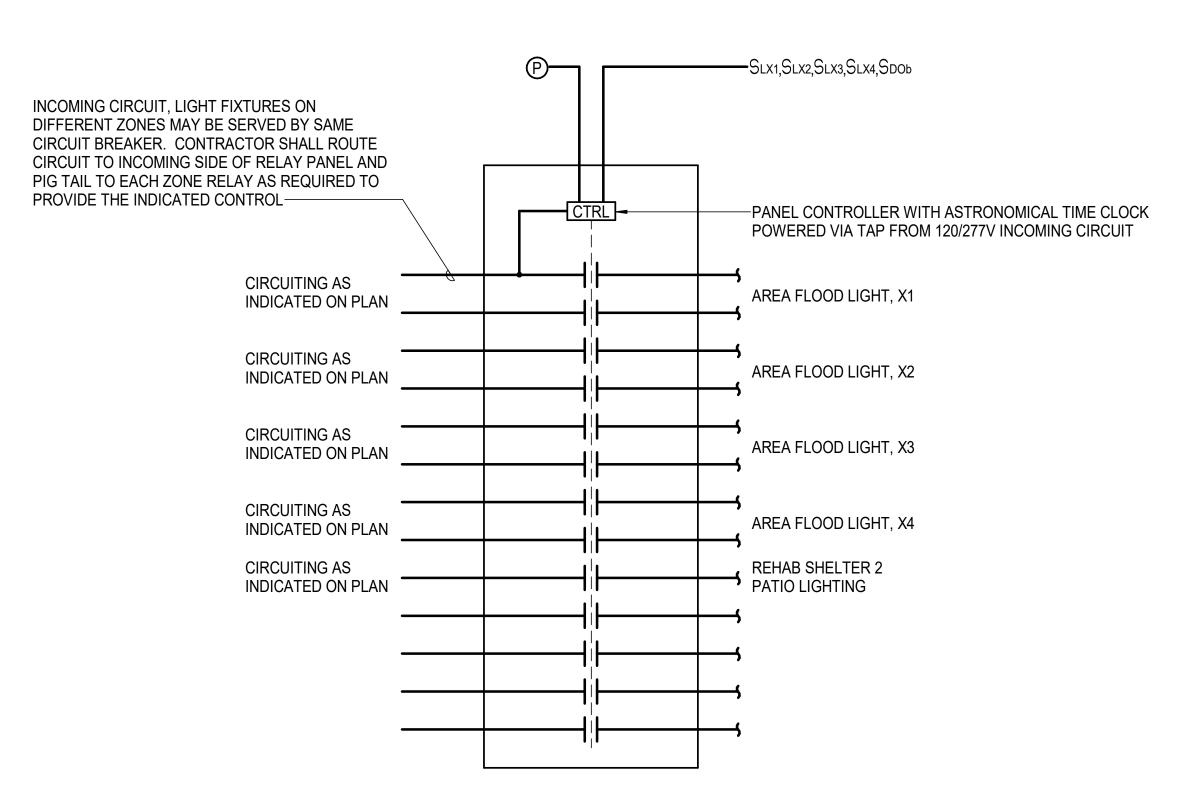
E-503



NOTES

- 1. EXTERIOR LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL AND INTEGRAL TIME CLOCK
- 2. DETAIL BASED ON HUBBELL "CX" LIGHTING CONTROL PANEL.
- 3. PANEL SHALL COMPLY WITH NEC 409.110
- 4. PROVIDE LABELING IN ACCORDANCE WITH NEC 409.110.

LIGHTING CONTROL PANEL "LRP-1" DETAIL NO SCALE



NOTES:

- 1. PATIO SHALL BE CONTROLLED VIA PHOTOCELL AND INTEGRAL TIME CLOCK.
- 2. DETAIL BASED ON HUBBELL "CX" LIGHTING CONTROL PANEL.
- 3. AREA FLOOD LIGHTS SHALL BE CONTROLLED VIA SWITCHES
- 4. PROVIDE LABELING IN ACCORDANCE WITH NEC 409.110.

LIGHTING CONTROL PANEL "LRP-2" DETAIL NO SCALE

		LI	GHTING C	CONTROL SO	CHEDUL	.E				
					CONT	ROL FUNCTIONALI	TY			
						OC	CUPANCY SENSING			
SPACE TYPE	CONTROLLER TYPE	MANUAL CONTROL	DIMMING	AUTO ON TO 50%	OR	VACANCY (MANUAL ON)	AUTO ON TO 100% AUTO DIM TO 20%	AUTO DIM TO 50%	AUTO OFF AFTER HOURS (TIME OF DAY)	AUTOMATIC RECEPTACLE CONTROL
CLASSROOM / LECTURE / TRAINING	ROOM CONTROLLER	Х	Х	Х	OR					Х
CONFERENCE / MEETING / MULTIPURPOSE	ROOM CONTROLLER	Х	Х	X	OR					X
STORAGE ROOM	WALL SWITCH / SENSOR	Х			OR	Х				
RESTROOM (SINGLE)	WALL SWITCH / SENSOR	Х					X			
LOBBIES	ROOM CONTROLLER	Х	Х				Х	Х	Х	
ELECTRICAL ROOM	WALL SWITCH	Х								
MECHANICAL ROOM	WALL SWITCH	Х								
PATIO	RELAY PANEL	Х							Х	

GENERAL NOTES:

- SUBSCIPTS ON PLANS INDICATE SEPARATE LIGHTING CONTROL ZONES. PROVIDE ALL REQUIRED ACESSORIES TO CONTROL EACH ZONE SEPARATELY AND AS NOTED HEREIN.
- ROOM CONTROLLERS ARE NOT LOCATED ON PLANS. PROVIDE WHERE INDICATED AND QUANTITY AS REQUIRED TO ACHIEVE CONTROL FUNCTIONALITY INDICATED.
- AUTO OFF OR AUTO DIM CONTROLS SHALL BE PROGRAMMED TO FUNCTION WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
- $\hbox{\bf \cdot} \hbox{\bf COORDINATE NORMAL BUSINESS HOURS WITH OWNER FOR PROGRAMMING PURPOSES. } \\$

EMERGENCY LIGHTING NOTES:

- EMERGENCY LIGHTING SHALL BE PROVIDED VIA BATTERY BACKUP, UON. CONNECT BATTERY AHEAD OF ALL CONTROLS TO AUTOMATICALLY ILLUMINATE FIXTURE UPON LOSS OF NORMAL POWER.
- SUBSCRIPT "NL" INDICATES NIGHT LIGHT (ALL DRIVERS UNSWITCHED) FOR 24/7 OPERATION.
- PROVIDE EMERGENCY FIXTURES WITH UL924 RELAY TO ALLOW CONTROL OF LIGHT FIXTURES

DAYLIGHT RESPONSIVE CONTROLS:

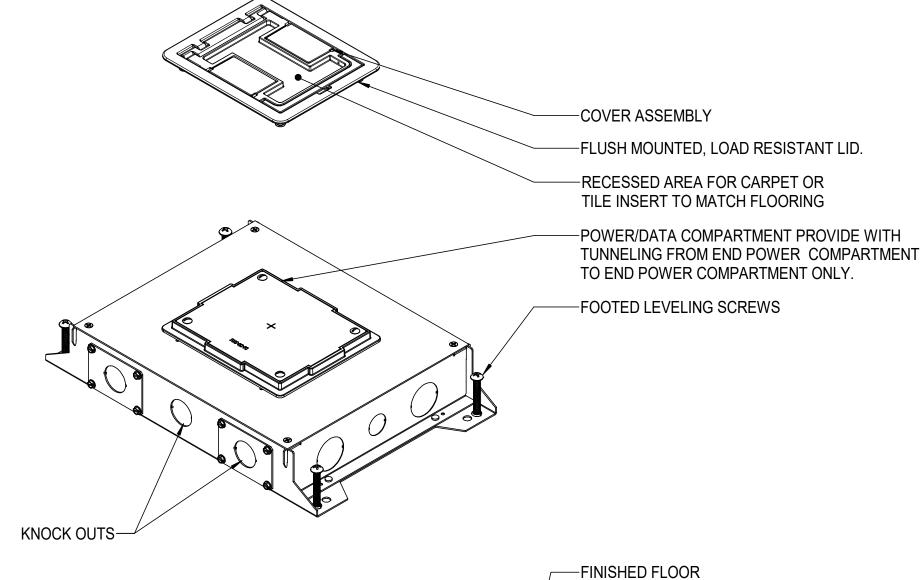
- AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS...
- DAYLIGHT RESPONSIVE CONTROLS SHALL BE...

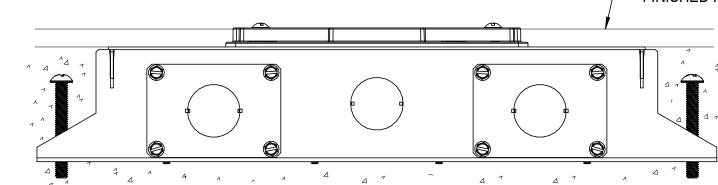
CORRIDOR AND LOBBY LIGHTING NOTES:

DURING NORMAL BUSINESS HOURS, LIGHTING...
AFTER NORMAL BUSINESS HOURS, LIGHTING...

AUTOMATIC RECEPTACLE CONTROL NOTES:

THE TOP HALF OF RECEPTACLES IN SPACES...ALL CONTROLLED RECEPTACLES SHALL BE...



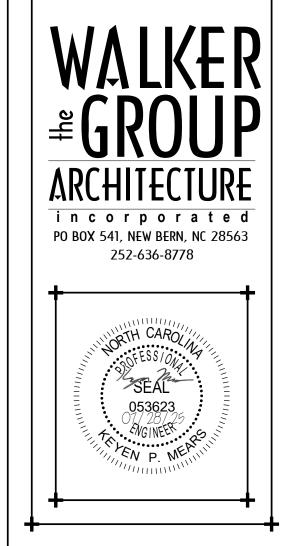


NOTES:

- 1. WIREMOLD RFBA2R30 SERIES PROVIDE (1) DUPLEX 20A, 120V RECEPTACLE.
- 2. WIREMOLD RFBA4R30 SERIES. PROVIDE (1) DUPLEX 20A, 120V RECEPTACLE AND (1) DATA OUTLET.
- 3. WIREMOLD RFBA6R30 SERIES.PROVIDE (2) DUPLEX 20A, 120V RECEPTACLE AND (2) DATA OUTLET.

MULTISERVICE FLUSH FLOOR BOX

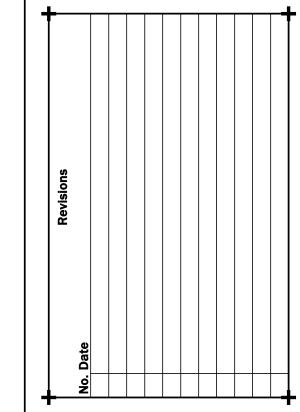




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DETAILS

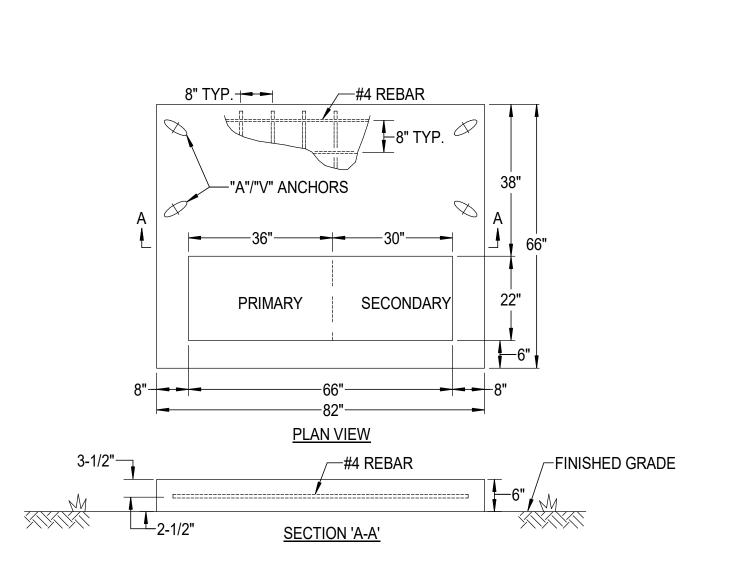
Drawing Title

Sheet Num

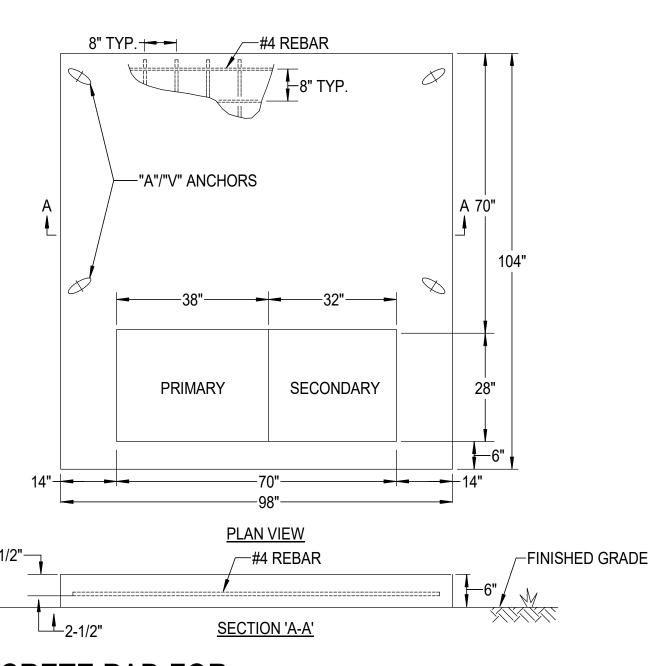
E-504

				SEI	POWER	RISER DI	AGRAM F	OR RATIN	NGS						
LOAD SERVED	BRK TRP	NO. POLES	CKT NO.	WIRE AND CONDUIT SIZE	A	В	Α	В	WIRE AND CON		KT NO.	NO. POLES	BRK TRP	LOAD SERVED	
RS1	20 A	2	1,3	- SEE RISER DIAGRAM -	38.4 A		54.8 A		- SEE RISER D	AGRAM -	2,4	2	20 A	RS2	
						36.4 A		46.5 A				_			
GH	20 A	2	5,7	- SEE RISER DIAGRAM -	13.8 A		0 A				6	1	150 A	MODULAR CLASSROOM	
						11.8 A		0 A			8	1	20 A	SPARE	
SMOKE GENERATOR	20 A	1	9	1-#4, 1-#4, 1-#4 GND - 1"C	12 A		0 A				10	1	20 A	SPARE	
SPD	60 A	2	11,13			0 A		0 A			12	1	20 A	SPARE	
	0071				0 A		0 A			1	14	1	20 A	SPARE	
SPARE	20 A	1	15			0 A		0 A			16	1	20 A	SPARE	
SPARE	20 A	1	17		0 A		0 A				18	1	20 A	SPARE	
SPARE	20 A	1	19			0 A		0 A			20	1	20 A	SPARE	
SPARE	20 A	1	21		0 A		0 A			2	22	1	20 A	SPARE	
SPARE	20 A	1	23			0 A		0 A		2	24	1	20 A	SPARE	
		'		TOTAL	CONNEC	TED AMP	S: A:	119 A B	: 94.7 A	•					
oad Classification				Connected Load	De	mand Fac	tor	Estim	nated Demand	Panel Totals					
EXTERIOR LIGHTING				4252 VA		125.00%			5315 VA						
HEATING				10565 VA		100.00%			10565 VA		Tota	al Conn. L	.oad: 2564	1 VA	
IGHTING				218 VA		125.00%			273 VA	•	Total	Est. Dem	and: 2675	9 VA	
MISCELLANEOUS				5520 VA		100.00%			5520 VA	To	otal (Conn. Cur	rent: 106.8	3 A	
PANELS				0 VA		0.00%			0 VA	Total Est	t. De	mand Cur	rent: 111.	5 A	
RECEPTACLES				4980 VA		100.00%			4980 VA						
/ENTILATION				106 VA		100.00%			106 VA						

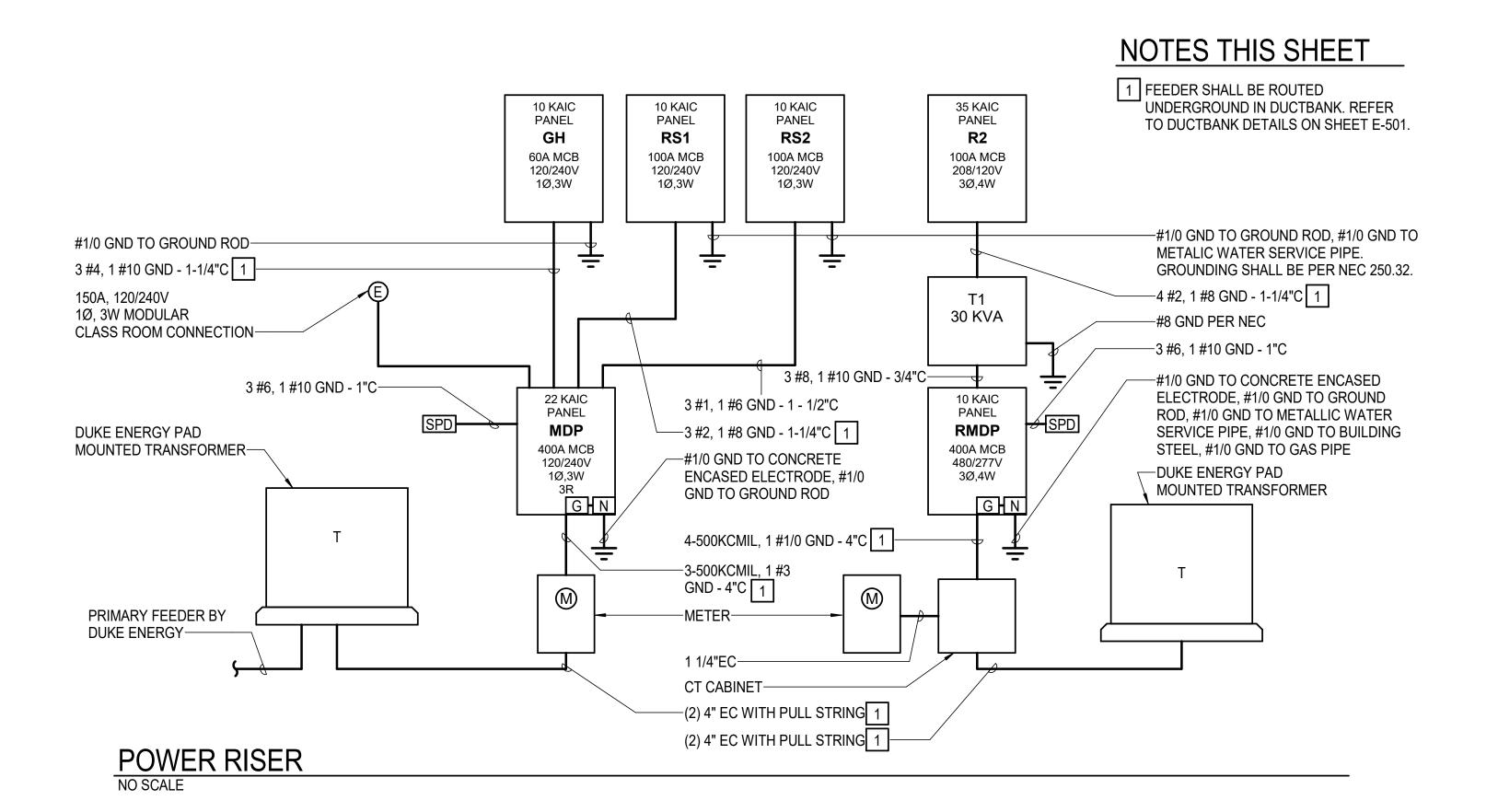
				SEE	POWER	RISER DI	AGRAM F	FOR RATI	NGS					
LOAD SERVED	BRK TRP	NO. POLES	CKT NO.	WIRE AND CONDUIT SIZE	А	В	А	В	WIRE AND CONDU	JIT SIZE	CKT NO.	NO. POLES	BRK TRP	LOAD SERVED
LIGHTING	20 A	1	1	1-#12, 1-#12, 1-#12 GND - 1/2"	0.5 A		4.5 A		1-#12, 1-#12, 1-#12	GND - 1/2"	2	1	20 A	RECEPTACLES
DSS-2A/1A	25 A	2	3,5	2-#10, 1-#10 GND - 1/2"	8.8 A	8.8 A	0 A	3 A	1-#12, 1-#12, 1-#12 (GND - 1/2"	4 6	1	20 A 20 A	RECEPTACLES OFFICE 10 SPARE
SPARE	20 A	1	7			0 A		0 A			8	1	20 A	SPARE
SPARE	20 A	1	9		0 A		0 A				10	1	20 A	SPARE
SPARE	20 A	1	11			0 A		0 A			12	1	20 A	SPARE
SPARE	20 A	1	13		0 A		0 A				14	1	20 A	SPARE
SPARE	20 A	1	15			0 A		0 A			16	1	20 A	SPARE
SPARE	20 A	1	17		0 A		0 A				18	1	20 A	SPARE
SPARE	20 A	1	19			0 A		0 A			20	1	20 A	SPARE
SPARE	20 A	1	21		0 A		0 A				22	1	20 A	SPARE
SPARE	20 A	1	23			0 A		0 A			24	1	20 A	SPARE
	·	•	•	TOTAL	CONNEC	TED AMP	S: A: 1	3.8 A E	3: 11.8 A					•
Load Classification				Connected Load	De	mand Fac		Estir	mated Demand			ı	Panel Totals	
EXTERIOR LIGHTING				32 VA		125.00%			40 VA					
HEATING				2112 VA		100.00%			2112 VA				_oad : 3074 \	
LIGHTING				30 VA		125.00%			38 VA				nand: 3090 \	
RECEPTACLES				900 VA		100.00%			900 VA				rrent: 12.8 A	
										Total	Est. De	emand Cui	rrent: 12.9 A	<u> </u>
Notes:														

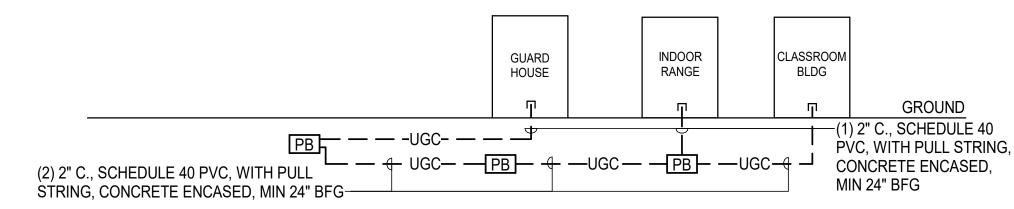


CONCRETE PAD FOR SERVICE TRANSFORMER SERVING MDP NO SCALE

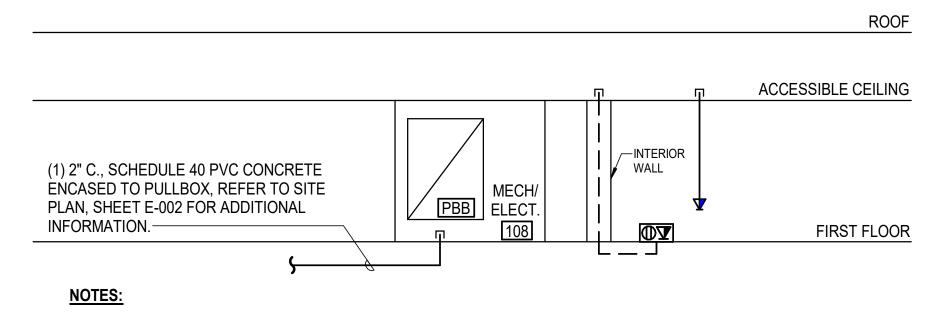


CONCRETE PAD FOR SERVICE TRANSFORMER SERVING RMDP





TELECOMMUNICATIONS RISER DIAGRAM



- 1. MINIMUM CONDUIT SIZE SHALL BE 1" UON.
- 2. PROVIDE CONDUIT SLEEVES WHERE CABLES PASS THROUGH WALLS, FLOORS, OR CEILINGS.

INDOOR RANGE TELECOMMUNICATIONS RISER DIAGRAM

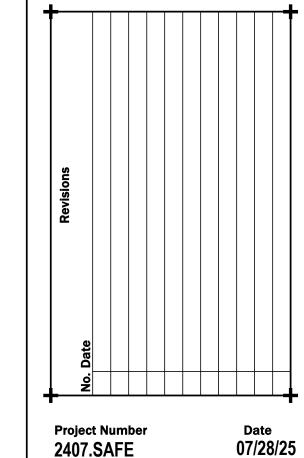
NO SCALE



CRAVEN COMMUNITY **COLLEGE-PUBLIC SAFETY TRAINING** CENTER

525 Executive Pkwy New Bern, NC 28562

BID DOCUMENTS SCO # 24-27879-01A



Project Number 2407.SAFE

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RISER DIAGRAM & **SCHEDULES**



					SEE P	OWER F	RISER DI	AGRAM	FOR RA	TINGS						
LOAD SERVED	BRK TRP	NO. POLES	CKT NO.	WIRE AND CONDUIT SIZE	A	В	С	A	В	С	WIRE ANI	O CONDUIT SIZE	CKT NO.	NO. POLES	BRK TRP	LOAD SERVED
			1		25.9 A			11.2 A					2			
₹2	50 A	3	3	- SEE RISER DIAGRAM -		24 A			11.2 A		3 - #12, 1	-#12 GND - 1/2"	4	3	20 A	RTU-1
			5				23.4 A			11.2 A			6			
			7		8.8 A			183 A					8			
RTU-2	15 A	3	9	3-#12, 1-#12 GND - 1/2"		8.8 A			183 A		3 - #3/0,	1-#6 GND - 2"C	10	3	200 A	MAU-1
			11				8.8 A			183 A			12			
			13		77 A			0 A					14	1	20 A	SPARE
EF-1-RANGE	150 A	3	15	3-#1/0, 1-#6 GND - 1-1/4"C		77 A			0 A				16	1	20 A	SPARE
			17				77 A			0 A			18	1	20 A	SPARE
			19		0 A			0 A					20	1	20 A	SPARE
SPD	60 A	3	21			0 A			0 A				22	1	20 A	SPARE
			23				0 A			0 A			24	1	20 A	SPARE
SPARE	20 A	1	25		0 A			0 A					26	1	20 A	SPARE
SPARE	20 A	1	27			0 A			0 A				28	1	20 A	SPARE
SPARE	20 A	1	29				0 A			0 A			30	1	20 A	SPARE
SPARE	20 A	1	31		0 A			0 A					32	1	20 A	SPARE
SPARE	20 A	1	33			0 A			0 A				34	1	20 A	SPARE
SPARE	20 A	1	35				0 A			0 A			36	1	20 A	SPARE
SPARE	20 A	1	37		0 A			0 A					38	1	20 A	SPARE
SPARE	20 A	1	39			0 A			0 A				40	1	20 A	SPARE
SPARE	20 A	1	41				0 A			0 A			42	1	20 A	SPARE
				TOTAL C				: 305.9 A			: 303.4 A					
Load Classification				Connected Load	k		nand Fac	tor	Es	timated				Pan	el Totals	
AIR CONDITIONING				16620 VA 136 VA			100.00%			16620						
EXTERIOR LIGHTING							125.00%			170 \				onn. Load		
IGHTING	2463 VA 224543 VA			125.00%			3079				t. Demand					
MISCELLANEOUS							100.00%			224543				n. Curren		Α
RECEPTACLES				8280 VA			100.00%			8280		Total Est	. Demar	nd Curren	t: 305 A	
VENTILATION				888 VA			100.00%		-	888 \	/A					

					BOA POWER				EDULE NGS				
LOAD SERVED	BRK TRP	NO. POLES	CKT NO.	WIRE AND CONDUIT SIZE	Α	В	А	В	WIRE AND CONDUIT SIZ	CKT NO.	NO. POLES	BRK TRP	LOAD SERVED
NITE LIQUITING	20.4		1,3	2 #40 4 #40 CND 4 #C	2.9 A		0 A		2 #42 4 #42 CND 4"C	2,4	2	20. 4	CITE LICUTING
SITE LIGHTING	20 A	2		2-#10, 1-#10 GND - 1"C		2.9 A		0 A	2-#12, 1-#12 GND - 1"C		2	20 A	SITE LIGHTING
JH-R1-1	20 A	1	5	1-#12, 1-#12, 1-#12 GND - 1/2"	7.5 A		1.1 A		1-#12, 1-#12, 1-#12 GND - 1	/2" 6	1	20 A	LIGHTING, EF-R1-1,3
JH-R1-2	20 A	1	7	1-#12, 1-#12, 1-#12 GND - 1/2"		7.5 A		7.9 A	1-#12, 1-#12, 1-#12 GND - 1	/2" 8	1	20 A	REC
IH-R1-3	20 A	1	9	1-#12, 1-#12, 1-#12 GND - 1/2"	10.4 A		0.1 A		1-#12, 1-#12, 1-#12 GND - 1	/2" 10	1	20 A	EF-R1-2
// LOD4	00.4		11,13	0.1140.4.1140.0ND.4101		8.3 A		9.8 A	1-#12, 1-#12, 1-#12 GND - 1	/2" 12	1	20 A	BF-R1-1
VH-2R1	20 A	2		2-#12, 1-#12 GND - 1/2"	8.3 A		8 A		1-#12, 1-#12, 1-#12 GND - 1	/2" 14	1	20 A	EWC ^
SPARE	20 A	1	15			0 A		0 A	0 1140 4 1140 0010 4110	16,18		00.4	DO 0
SPARE	20 A	1	17		0 A		0 A		2-#12, 1-#12 GND - 1"C		2	20 A	PS-3
SPARE	20 A	1	19			0 A		0 A		20	1	20 A	SPARE
SPARE	20 A	1	21		0 A		0 A			22	1	20 A	SPARE
SPARE	20 A	1	23			0 A		0 A		24	1	20 A	SPARE
SPARE	20 A	1	25		0 A		0 A			26	1	20 A	SPARE
SPARE	20 A	1	27			0 A		0 A		28	1	20 A	SPARE
SPARE	20 A	1	29		0 A		0 A			30	1	20 A	SPARE
SPARE	20 A	1	31			0 A		0 A		32	1	20 A	SPARE
SPARE	20 A	1	33		0 A		0 A			34	1	20 A	SPARE
SPARE	20 A	1	35			0 A		0 A		36	1	20 A	SPARE
SPARE	20 A	1	37		0 A		0 A			38	1	20 A	SPARE
SPARE	20 A	1	39			0 A		0 A		40	1	20 A	SPARE
SPARE	20 A	1	41		0 A		0 A			42	1	20 A	SPARE
			1	TOTAL	CONNEC	TED AMP	S: A: 3	8.4 A E	3: 36.4 A				
oad Classification				Connected Load	Dei	mand Fac	ctor	Estir	nated Demand		P	anel Tot	als
EXTERIOR LIGHTING				700 VA		125.00%			875 VA				
HEATING				4226 VA		100.00%			4226 VA		al Conn. L		
IGHTING				94 VA		125.00%			118 VA	Tota	l Est. Dem	and: 917	72 VA
MISCELLANEOUS				2040 VA		100.00%			2040 VA		Conn. Cur		
PANELS				0 VA		0.00%				otal Est. De	emand Cur	ent: 38.	2 A
RECEPTACLES				1860 VA		100.00%			1860 VA				
/ENTILATION				53 VA		100.00%			53 VA				

					SEE P	OWER R	ISER DI	AGRAM	FOR RA	TINGS						
LOAD SERVED	BRK TRP	NO. POLES	CKT NO.	WIRE AND CONDUIT SIZE	A	В	С	A	В	С	WIRE AND	CONDUIT SIZE	CKT NO.	NO. POLES	BRK TRP	LOAD SERVED
LIGHTING	20 A	1	1	1-#12, 1-#12, 1-#12 GND - 1/2"	7.6 A			7.9 A			1-#12, 1-#12,	1-#12 GND - 1/2"	2	1	20 A	RECEPTACLES
RANGE LIGHTING	20 A	1	3	1-#12, 1-#12, 1-#12 GND - 3/4"		5.6 A			10.5 A		1-#12, 1-#12,	1-#12 GND - 1/2"	4	1	20 A	RECEPTACLES
RECEPTACLES	20 A	1	5	1-#12, 1-#12, 1-#12 GND - 1/2"			9 A			6 A	1-#12, 1-#12,	1-#12 GND - 1/2"	6	1	20 A	RECEPTACLES
RECEPTACLES	20 A	1	7	1-#12, 1-#12, 1-#12 GND - 1/2"	7.5 A			6 A			1-#12, 1-#12,	1-#12 GND - 1/2"	8	1	20 A	RECEPTACLES
RECEPTACLES	20 A	1	9	1-#12, 1-#12, 1-#12 GND - 1/2"		6 A			1.5 A		1-#12, 1-#12,	1-#12 GND - 1/2"	10	1	20 A	COPIER / PRINTER
EF-1	20 A	1	11	1-#12, 1-#12, 1-#12 GND - 1/2"			3 A			3 A	1-#12, 1-#12,	1-#12 GND - 1/2"	12	1	20 A	ROOFTOP RECEPTACLE
F-2	20 A	1	13	1-#12, 1-#12, 1-#12 GND - 1/2"	4.4 A			1 A			1-#12, 1-#12,	1-#12 GND - 1/2"	14	1	20 A	GUH-1
A/III 4	00.4		15	0.1/40.4.1/40.0NID. 4/01		14.4 A			6 A		1-#10, 1-#10,	1-#10 GND - 1/2"	16	1	20 A	RECEPTACLES
NH-1	20 A	2	17	2-#12, 1-#12 GND - 1/2"			14.4 A			1.1 A	1-#12, 1-#12,	1-#12 GND - 1/2"	18	1	20 A	EXTERIOR LIGHTING
DYNAMIC RANGE MOVER	00.4		19	0 1/40 4 1/40 0ND 4/01	10 A			1.5 A			1-#12, 1-#12,	1-#12 GND - 1/2"	20	1	20 A	RECEPTACLES ^
PRO	20 A	2	21	2-#12, 1-#12 GND - 1/2"		10 A			4.5 A		1-#12, 1-#12,	1-#12 GND - 1/2"	22	1	20 A	RECEPTACLES
RANGE LIGHTING	20 A	1	23	1-#10, 1-#10, 1-#10 GND - 1/2"			7.4 A			13.8 A	0.440.4.4	40 OND 4/0"	24	2	20. 4	DC 4
DDC PANEL	20 A	1	25	1-#12, 1-#12, 1-#12 GND - 1/2"	3 A			13.8 A			2-#12, 1-#	12 GND - 1/2"	26	2	20 A	PS-1
SPARE	20 A	1	27			0 A			0 A				28	1	20 A	SPARE
SPARE	20 A	1	29				0 A			0 A			30	1	20 A	SPARE
SPARE	20 A	1	31		0 A			0 A					32	1	20 A	SPARE
SPARE	20 A	1	33			0 A			0 A				34	1	20 A	SPARE
SPARE	20 A	1	35				0 A			0 A			36	1	20 A	SPARE
SPARE	20 A	1	37		0 A			0 A					38	1	20 A	SPARE
SPARE	20 A	1	39			0 A			0 A				40	1	20 A	SPARE
SPARE	20 A	1	41				0 A			0 A			42	1	20 A	SPARE
				TOTAL	CONNE	CTED A	MPS:	A: 59.7	A B: 5	5.4 A	C: 54 A			'		-
oad Classification				Connected Load		Dem	and Fac	tor	Es	timated	Demand			Pan	el Totals	
EXTERIOR LIGHTING				136 VA		1	125.00%			170						
LIGHTING	2463 VA 8483 VA			125.00%			3079				Conn. Loa					
MISCELLANEOUS							100.00%			8483				st. Deman		
RECEPTACLES							100.00%			8280				n. Currei		
'ENTILATION				888 VA		1	100.00%			888	VA	Total Est.	Dema	nd Curre	nt: 58 A	

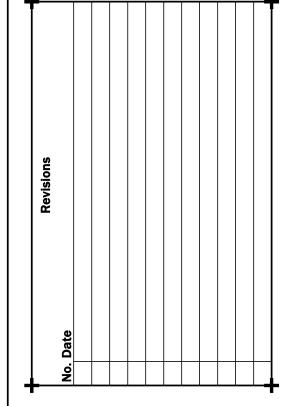
	_						AGRAM F		EDULE NGS				
LOAD SERVED	BRK TRP	NO. POLES	CKT NO.	WIRE AND CONDUIT SIZE	A	В	Α	В	WIRE AND CONDUIT SIZE	CKT NO.	NO. POLES	BRK TRP	LOAD SERVED
AREA FLOOD LIGHT, X1	20 A	2	1,3	2-#12, 1-#12 GND - 1"C	6.7 A	3.7 A	3.7 A	3.7 A	2-#10, 1-#10 GND - 1"C	2,4	2	20 A	AREA FLOOD LIGHT, X4
AREA FLOOD LIGHT, X3	20 A	2	5,7	2-#8, 1-#8 GND - 1"C	3.7 A	3.7 A	3.7 A	3.7 A	2-#12, 1-#12 GND - 1"C	6,8	- 2	20 A	AREA FLOOD LIGHT, X2
SPARE	20 A	1	9		0 A		1.1 A		1-#12, 1-#12, 1-#12 GND - 1/2	" 10	1	20 A	LIGHTING, EF-R2-1,3
UH-R2-1	20 A	1	11	1-#12, 1-#12, 1-#12 GND - 1/2"		7.5 A		0.1 A	1-#12, 1-#12, 1-#12 GND - 1/2	." 12	1	20 A	EF-R2-2
UH-R2-2 REC	20 A 20 A	1 1	13 15	1-#12, 1-#12, 1-#12 GND - 1/2" 1-#12, 1-#12, 1-#12 GND - 1/2"	7.5 A	7.9 A	8.3 A	8.3 A	2-#12, 1-#12 GND - 1/2"	14,16	2	20 A	WH-2R2
UH-R2-3	20 A	1	17	1-#12, 1-#12, 1-#12 GND - 1/2"	10.4 A		9.8 A		1-#12, 1-#12, 1-#12 GND - 1/2	." 18	1	20 A	BF-R2-1
EWC ^	20 A	1	19	1-#12, 1-#12, 1-#12 GND - 1/2"		8 A		0 A	0 440 4 440 OND 440	20,22		20. 4	DC 4
SPARE	20 A	1	21		0 A		0 A		2-#12, 1-#12 GND - 1"C		2	20 A	PS-4
SPARE	20 A	1	23			0 A		0 A		24	1	20 A	SPARE
SPARE	20 A	1	25		0 A		0 A			26	1	20 A	SPARE
SPARE	20 A	1	27			0 A		0 A			1	20 A	SPARE
SPARE	20 A	1	29		0 A		0 A			30	1	20 A	SPARE
SPARE	20 A	1	31			0 A		0 A		32	1	20 A	SPARE
SPARE	20 A	1	33		0 A		0 A			34	1	20 A	SPARE
SPARE	20 A	1	35			0 A		0 A		36	1	20 A	SPARE
SPARE	20 A	1	37		0 A		0 A			38	1	20 A	SPARE
SPARE	20 A	1	39			0 A		0 A		40	1	20 A	SPARE
SPARE	20 A	1	41		0 A		0 A			42	1	20 A	SPARE
	•	•		TOTAL	CONNEC	TED AMP	S: A: 5	4.8 A E	3: 46.5 A	•			•
Load Classification				Connected Load	De	mand Fac		Estin	nated Demand		P	anel Totals	<u> </u>
EXTERIOR LIGHTING				3520 VA		125.00%			4400 VA				
HEATING				4226 VA		100.00%			4226 VA		tal Conn. Lo		
LIGHTING				94 VA		125.00%			118 VA		al Est. Dema		
MISCELLANEOUS				2040 VA	100.00%				2040 VA		Conn. Curr		
PANELS				0 VA		0.00%				tal Est. De	emand Curr	ent: 54.4 <i>F</i>	4
RECEPTACLES				2220 VA		100.00%			2220 VA				
VENTILATION Notes:				53 VA		100.00%			53 VA				

i n c o r p o r a t e d PO BOX 541, NEW BERN, NC 28563 252-636-8778

CRAVEN COMMUNITY **COLLEGE-PUBLIC SAFETY TRAINING CENTER**

525 Executive Pkwy New Bern, NC 28562

BID DOCUMENTS SCO # 24-27879-01A

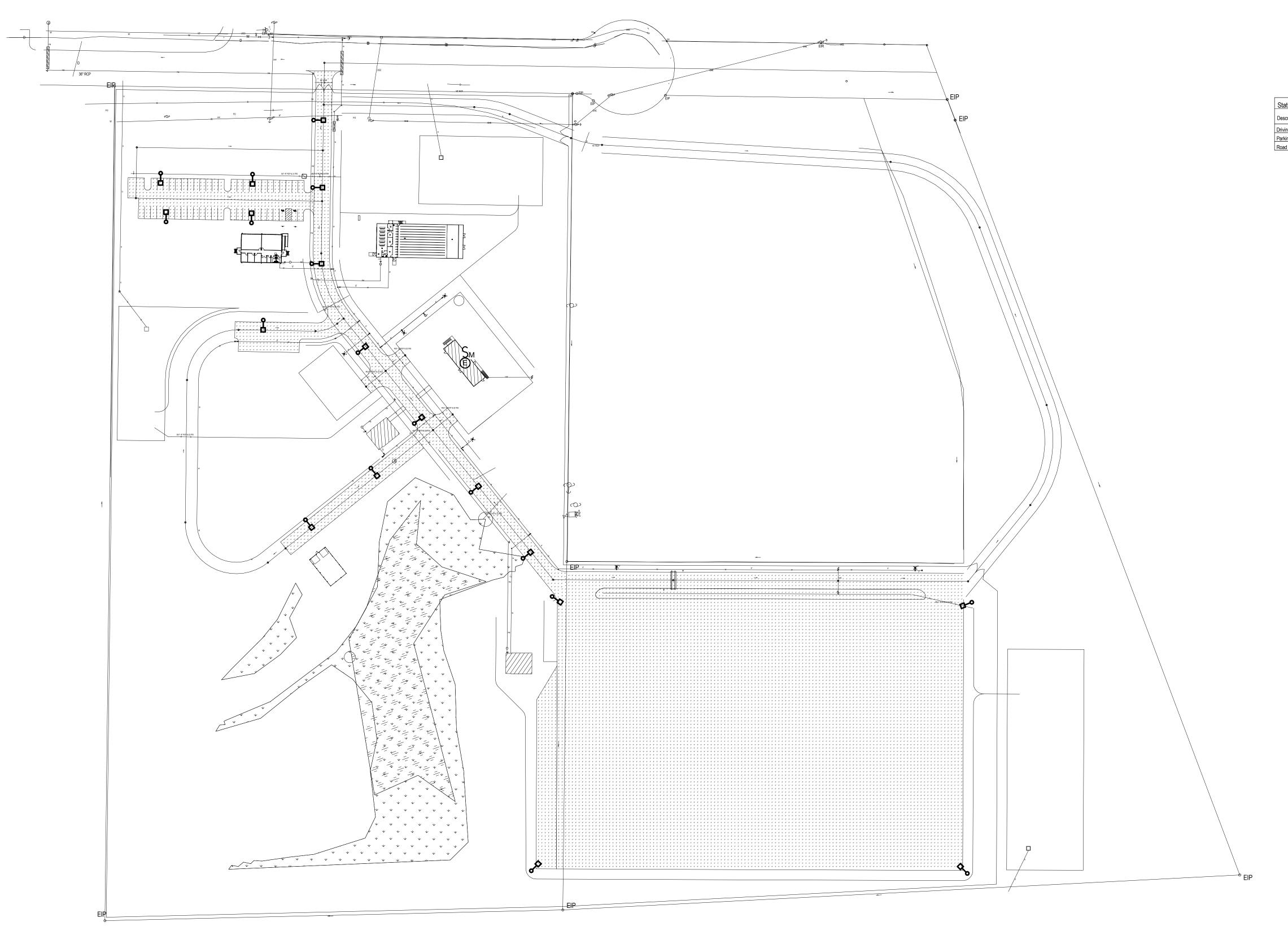


Date 07/28/25

Project Number 2407.SAFE

Scale AS NOTED **Drawing Title**

PANELBOARD SCHEDULES



 Statistics
 Description
 Symbol
 Avg
 Max
 Min
 Max/Min
 Avg/Min

 Driving Pad
 +
 3.6 fc
 17.1 fc
 0.2 fc
 85.5:1
 18.0:1

 Parking Lot
 +
 4.5 fc
 10.8 fc
 0.9 fc
 12.0:1
 5.0:1

 Road
 +
 3.9 fc
 10.6 fc
 0.1 fc
 106.0:1
 39.0:1

GROUP

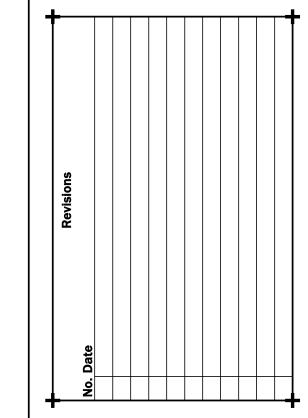
ARCHITECTURE

in c o r p o r a t e d
PO BOX 541, NEW BERN, NC 28563
252-636-8778

CRAVEN
COMMUNITY
COLLEGEPUBLIC SAFETY
TRAINING
CENTER

525 Executive Pkwy New Bern, NC 28562

BID DOCUMENTS SCO # 24-27879-01A



Project Number 2407.SAFE

Drawn
BWS

BWS Scale AS NOTED

AS NOTED

Drawing Title

SITE PLAN -PHOTOMETRICS

Sheet Number Of 157

Drawing Number

E-901

SITE PLAN - PHOTOMETRICS

SCALE: 1" = 80'-0"

GRAPHIC SCALE(S)

