

CLASS I CONDUCTOR, COPPER, COUNTERPOISE

CONDUCTOR TO GROUND ROD

**GUY WIRE AND ANCHOR PIN** 

POLE-MOUNTED AIR TERMINAL WITH #1/0 CU DOWN

 $-\cdot EG - \cdot EG -$ 

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#### SITE GENERAL NOTES

- ALL WORK SHALL BE COORDINATED WITH THE NEW AND EXISTING UTILITIES THAT ARE SHOWN ON THE CIVIL, LANDSCAPE, ENVIRONMENTAL, AND MECHANICAL SITE DRAWINGS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO POWER, COMMUNICATIONS, LIGHTING, STORM DRAINS, SANITARY SEWERS, WATER LINES, STEAM LINES, HIGH TEMP WATER LINES, CHILLED WATER LINES, AND GAS LINES.
- 2. THE LOCATIONS OF NEW AND EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL COORDINATE THE EXACT ROUTING OF THE ELECTRICAL AND COMMUNICATIONS SERVICE DUCTLINES INTO THE BUILDING WITH THE STRUCTURAL FOOTINGS TO AVOID CONFLICT. SEE THE INTERIOR ELECTRICAL POWER AND SIGNAL PLANS FOR THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE EQUIPMENT AND THE COMMUNICATION HEAD-END EQUIPMENT.
- 4. IDENTIFIED UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY AND AT NO ADDITIONAL COST TO THE GOVERNMENT.

#### SITE TELECOM SCOPE OF WORK NOTES

- 1. ALL SITE TELECOMMUNICATIONS WORK SHALL BE PROVIDED BY THE CONTRACTOR, THIS INCLUDES, BUT IS NOT LIMITED TO: DEMOLITION, NEW WORK, SPLICES, AND TESTING.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE US ARMY INFORMATION SYSTEMS ENGINEERING COMMAND (USAISEC) OUTSIDE PLANT DESIGN AND PERFORMANCE REQUIREMENTS (OSPDPR), AND THE I3A CRITERIA.
- 3. THE CONTRACTOR SHALL STAKE THE ROUTE OF EACH LINE AND INDICATE THE EXACT LOCATION OF NEW DUCTS, DUCT TERMINATIONS, HANDHOLES, AND HANDHOLE ORIENTATIONS FOR APPROVAL BY THE FORT BRAGG NETWORK ENTERPRISE CENTER (NEC POC: KEITH ROGERS (910) 396-4475) AND THE CONTRACTING OFFICER'S REPRESENTATIVE (COR).
- 4. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE NEC AND THE COR PRIOR TO DEMOLISHING ANY EXISTING COMMUNICATIONS EQUIPMENT, DUCTLINES, OR CABLING AND PRIOR TO BACKFILLING COMMUNICATIONS DUCTLINE TRENCHES.
- 5. COMMUNICATIONS DUCTLINE SPARES SHALL BE CLEANED AND MANDRELLED.
  MANDRELLING SHALL BE WITNESSED BY REPRESENTATIVES OF THE COR AND NEC.
- 6. NEW COMMUNICATIONS DUCTLINE SPARES SHALL BE SEALED, CAPPED, AND TAGGED. SEALS SHALL BE MECHANICAL TYPE. SPARE DUCTLINES SHALL INCLUDE A PULL STRING

# SITE ELECTRICAL (ROCA) SCOPE OF WORK NOTES

- THESE NOTES REFLECT THE SCOPE OF WORK FOR THE ROCA AND ALONG PLANK ROAD. SEE VOLUME 4, SHEET ES601 FOR SITE ELECTRICAL (DOWNRANGE) SCOPE OF WORK NOTES.
- 2. ALL WORK DONE BY SANDHILLS UTILITY SERVICES (SUS) SHALL BE PERFORMED UNDER A SEPARATE CONTRACT. UNLESS OTHERWISE INDICATED, SUS WILL PROVIDE UNDERGROUND DISTRIBUTION SUCH AS PRIMARY CABLING & CONDUIT, PAD MOUNTED TRANSFORMERS, SECTIONALIZING CABINETS, EQUIPMENT PADS, RISER ASSEMBLIES, PRIMARY CONNECTIONS, ETC. SANDHILLS UTILITY SERVICES (SUS) TO PROVIDE FINAL DETERMINATION OF TRANSFORMER SIZE.
- 3. THE CONTRACTOR SHALL PROVIDE ALL SERVICE ENTRANCE CABLE FROM THE TRANSFORMER(S) TO THE MAIN DISTRIBUTION PANEL(S) (SUS WILL MAKE THE CONNECTIONS AT THE TRANSFORMER). CURRENT RATED TRANSFORMER (CT) METERING WILL BE PROVIDED BY SUS AT THE TRANSFORMER LOCATION.

#### SITE LIGHTING SCOPE OF WORK NOTES

1. ALL SITE LIGHTING SHALL BE PROVIDED BY THE CONTRACTOR.

### SITE LIGHTNING PROTECTION SCOPE OF WORK NOTES

1. ALL SITE LIGHTNING PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR.

#### **ABBREVIATIONS**

Α	AMPERE	NO.	NUMBER
AFF	ABOVE FINISHED FLOOR	PH	PHASE
ATC	ASTRONOMICAL TIME CLOCK	R/W	RACEWAY
С	CONDUIT	SUS	SANDHILLS UTILITY SERVICES
CATV	CABLE TELEVISION	TV	TELEVISION
СВ	CIRCUIT BREAKER	TVSS	TRANSIENT VOLTAGE
CKT	CIRCUIT		SURGE SUPPRESSOR
DTR	DATA TERMINATION RACK	TYP	TYPICAL
GFCI	GOVERNMENT FURNISHED	UL	UNDERWRITERS LABORATORY
	CONTRACTOR INSTALLED	UOI	UNLESS OTHERWISE
GFGI	GOVERNMENT FURNISHED		INDICATED
	GOVERNMENT INSTALLED	UON	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTER	V	VOLT
GFP	GROUND FAULT PROTECTION	WP	WEATHERPROOF
HACR	HEATING AIR CONDITIONING		
	REFRIGERATION		
HP	HORSEPOWER		

LUMINAIRE SCHEDULE						
LUMINAIRE MARK	SOURCE TYPE	LUMINAIRE VOLTAGE	LUMINAIRE WATTAGE	INITIAL LUMENS	DISTRIBUTION TYPE	REMARKS
S1	LED	240 V	122 W	15,300	TYPE IV	DARK BRONZE FINISH;
S2	RED LED	240 V	60 W	3,000	FLOOD	DARK BRONZE FINISH; PROVIDE POLE TWIN ARM MOUNT;
ОВ	INCAN.	240 V	70 W	<b>-</b>	-	INCANDESCENT BULB, RED POLYCARBONATE LENS

	POLE SCHEDULE				
POLE MARK	MINIMUM POLE HEIGHT (FEET)	S1 LUMINAIRE QUANTITIES	S2 LUMINAIRE QUANTITIES	OB LUMINAIRE QUANTITIES	REMARKS
P1	40	1	2	0	
P2	40	0	0	0	PROVIDE CATENARY CONDUCTORS BETWEEN POLES AS INDICATED
 P3	40	1	2	0	PROVIDE CATENARY CONDUCTORS BETWEEN POLES AS INDICATED
P4	24.5	0	0	1	FLAG POLE WITH OBSTRUCTION LIGHT

## SHEET INDEX

HIGH POWER FACTOR

LIGHT EMITTING DIODE LOW VOLTAGE SWITCH

KILOWATT HOUR

MANUFACTURER

MAIN LUGS ONLY

NON FUSED

MOUNTING HEIGHT

NOT IN CONTRACT

MULTI-MISSION FACILITY

INTRUSION DETECTION SYSTEM

MOLDED CASE CIRCUIT BREAKER

**NETWORK ENTERPRISE CENTER** 

HEIGHT

HERTZ

HΖ

IDS

LED

LVS

MH

MLO

SITE POWER PLANS:	ES101-ES111
SITE TELECOM PLANS:	ES112-ES122
SITE LIGHTING PLANS:	ES123-ES128
SITE LIGHTNING PROTECTION PLANS:	ES129-ES134
SITE DETAILS:	ES501-ES504
SITE DIAGRAMS:	ES601-ES605



SED IN ACCORDANCE WITH AMENDMENT 0004 17AUG2023 DATE DATE

DESIGNED BY: ISSUE DATE:

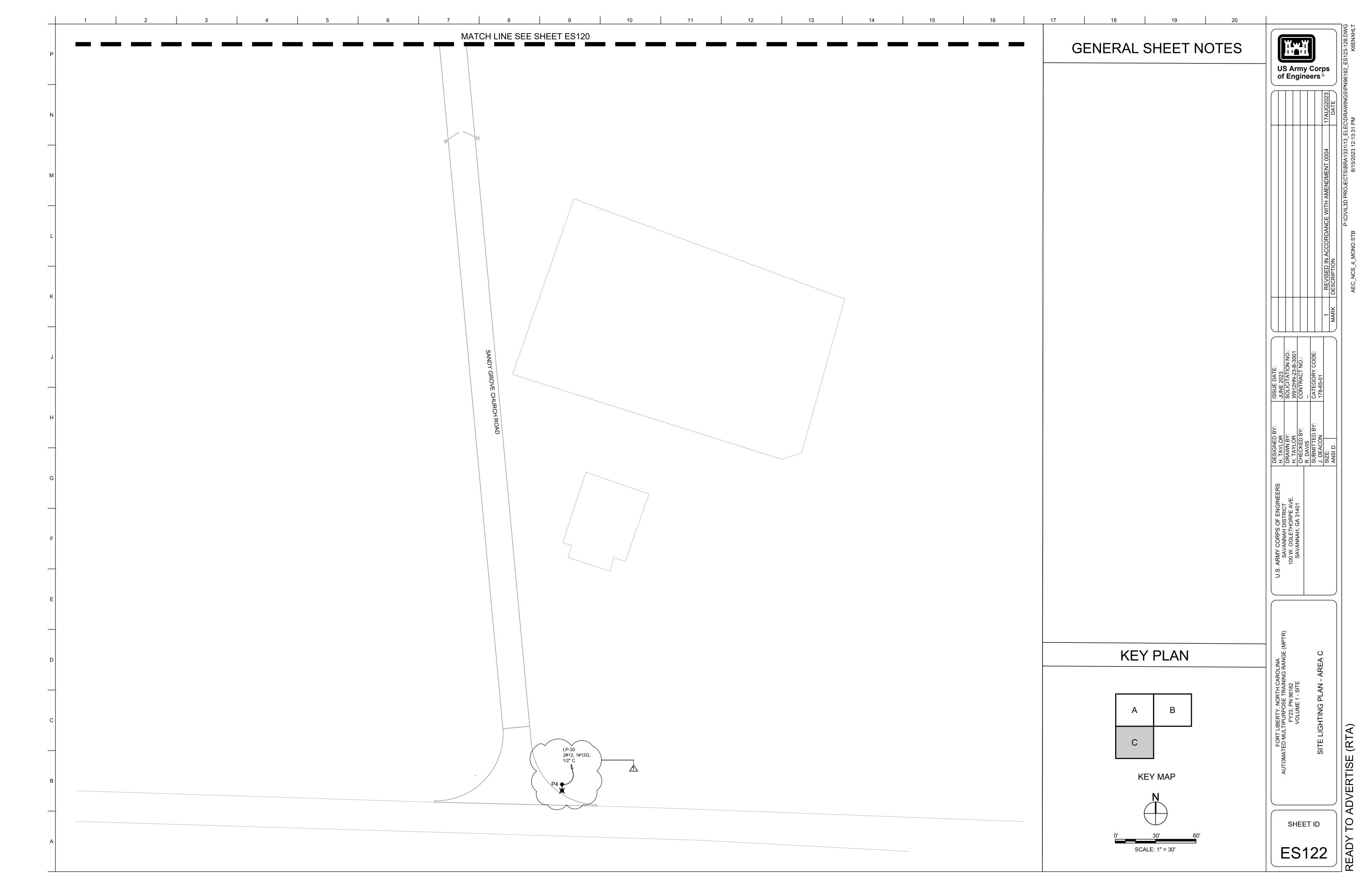
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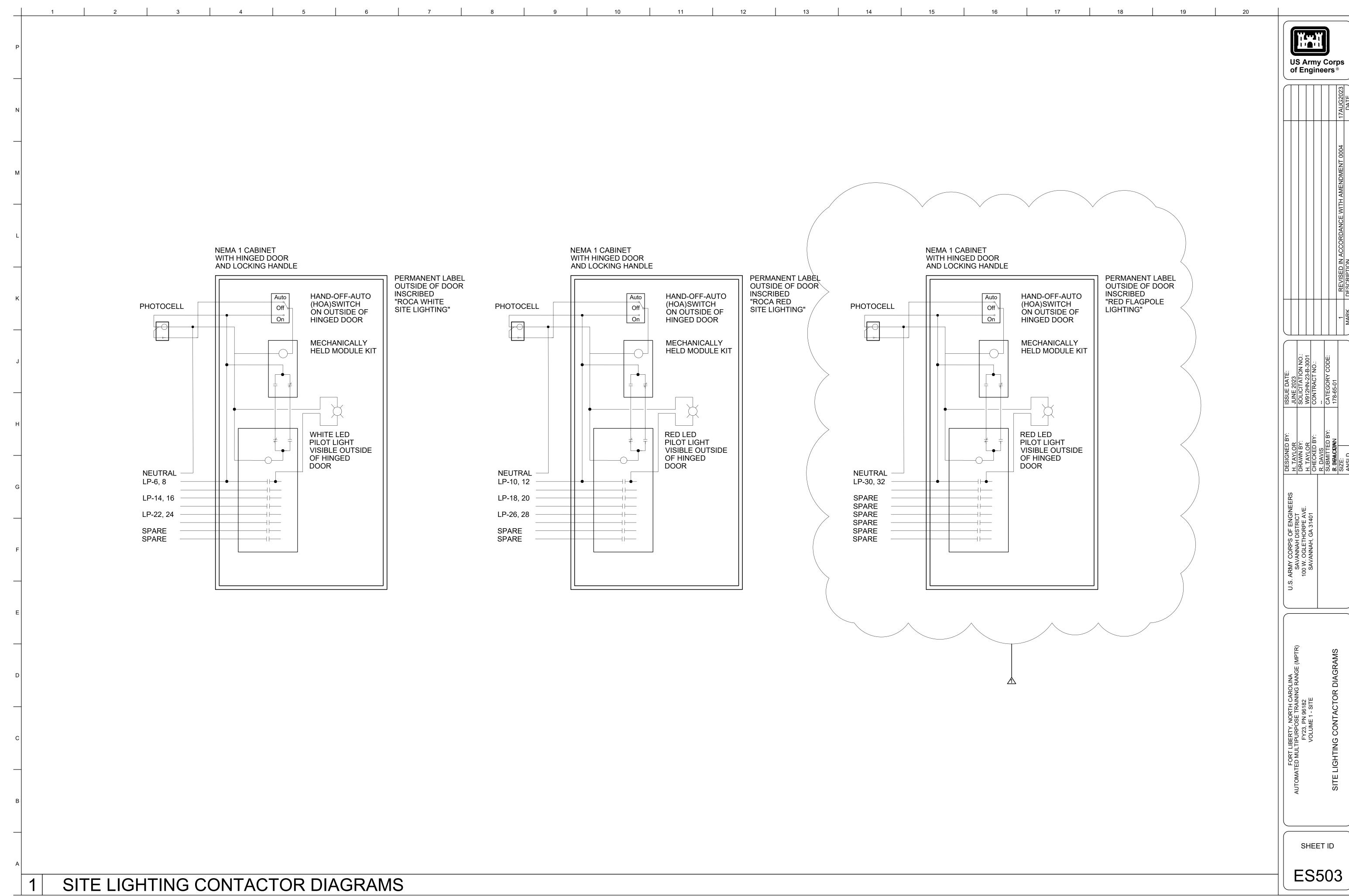
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FORT LIBERTY, NORTH CAROLINA
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ECTRICAL SITE LEGEND AND NOTES

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