DANIEL FIELD AIRPORT (DNL)

AUGUSTA, GA

AIRFIELD ELECTRICAL SYSTEM UPGRADE

GDOT PROJECT NO APXXX-XXXX-XX(XXX) RICHMOND **GMC PROJECT NO TAUG220004**

JANUARY 2023

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SHEET NO. DESCRIPTION

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ELECTRICAL LEGENDS & NOTES Sheets GE0 - GE1

Sheet E0 OVERALL ELECTRICAL REFERENCE PLAN

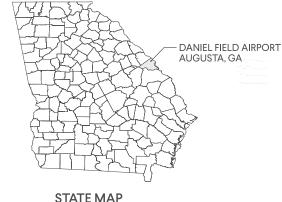
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N.T.S.

VICINITY MAP N.T.S.

DANIEL FIELD AIRPORT North Augusta

LOCATION MAP N.T.S.

PLANS PREPARED BY:

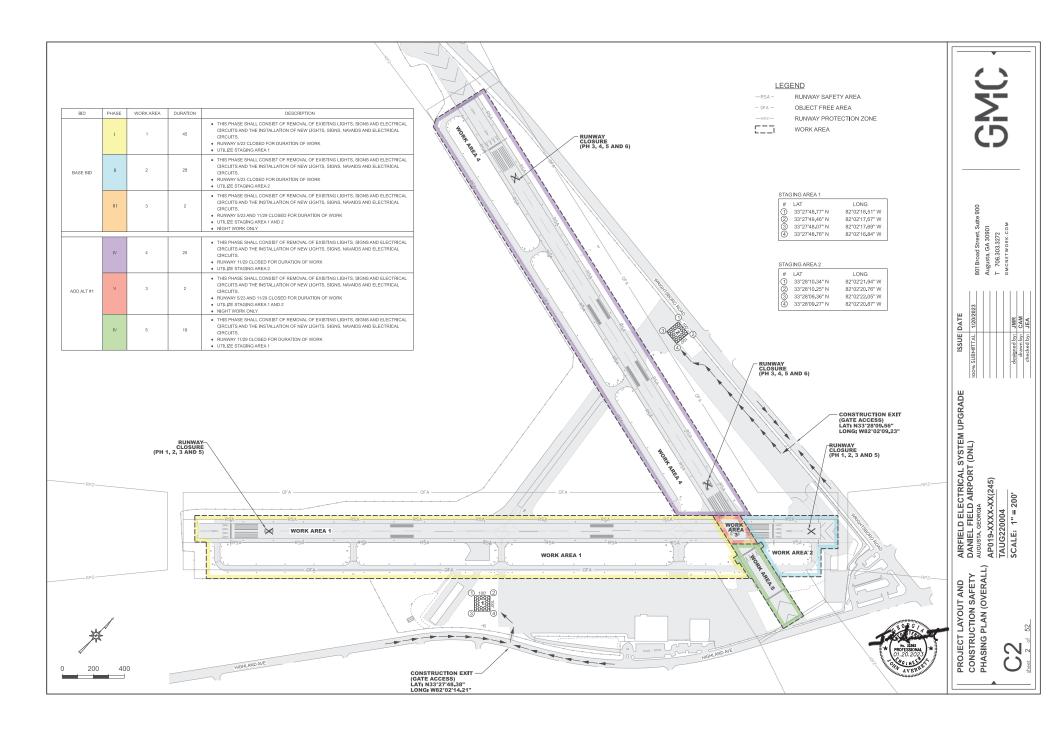


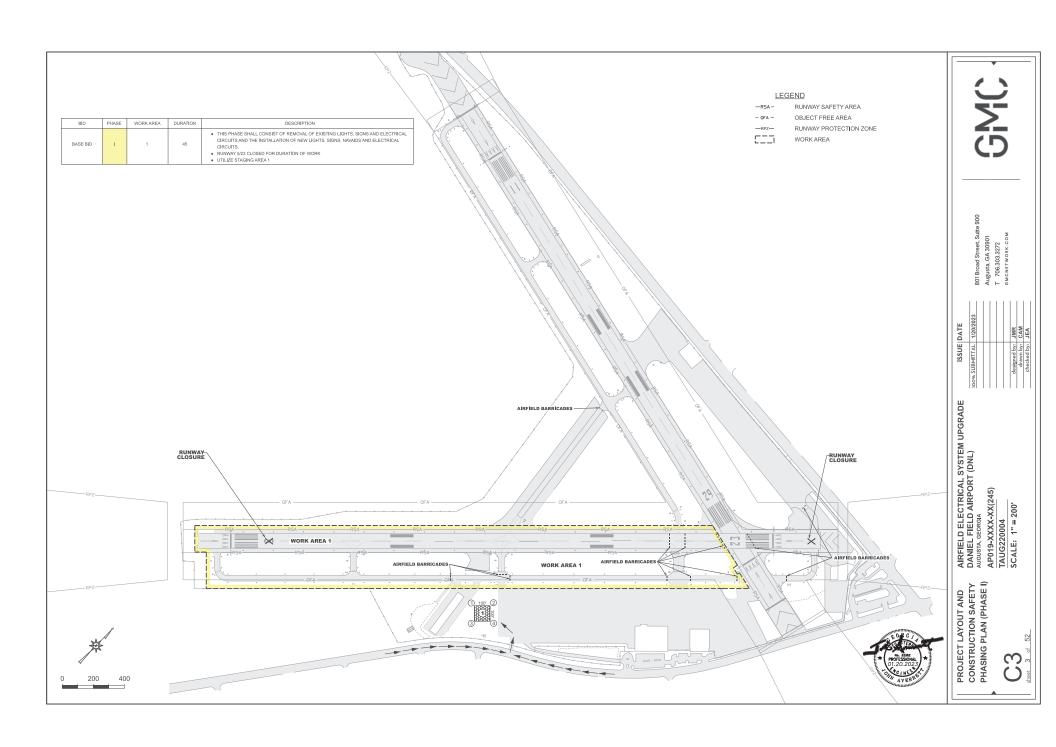
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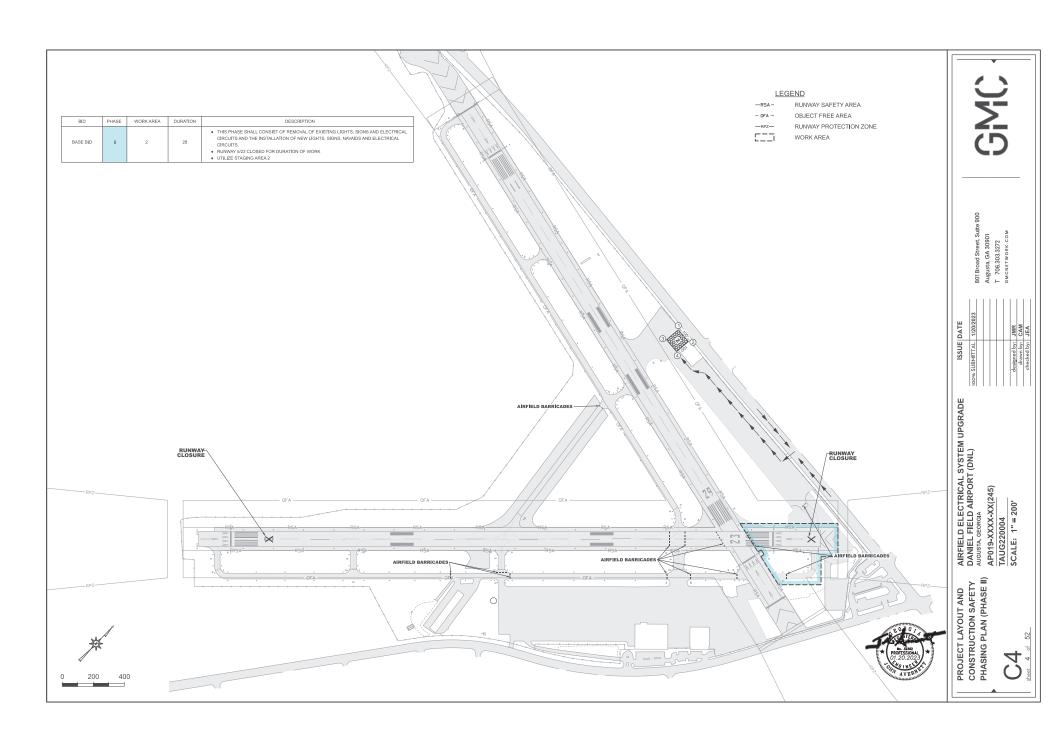
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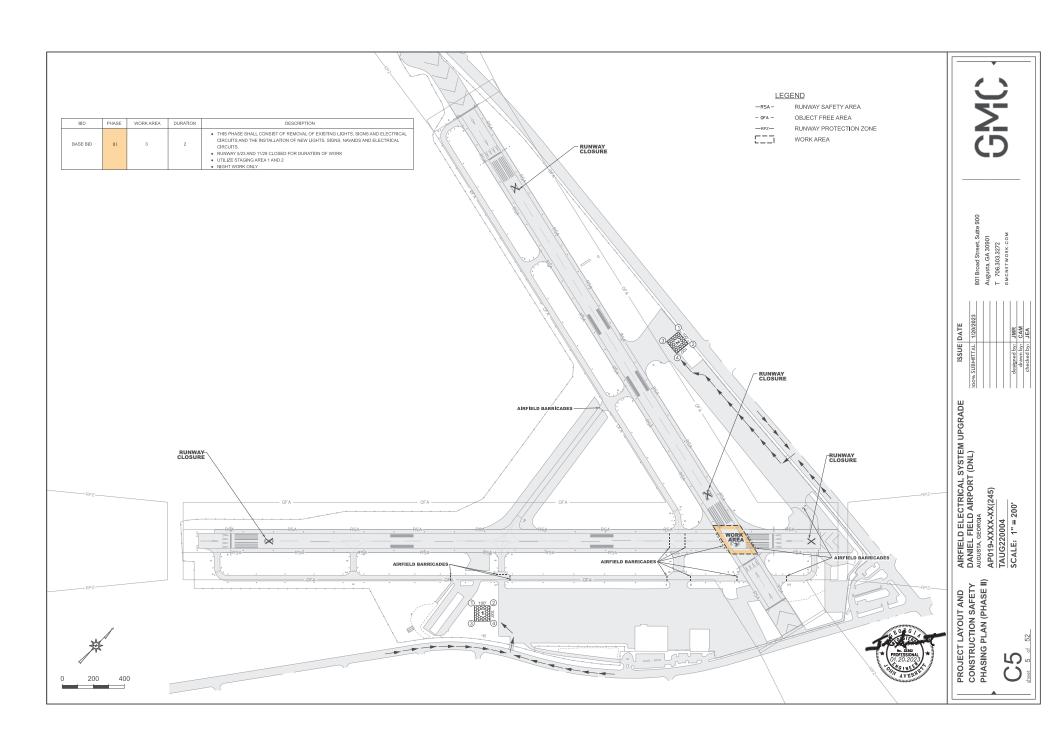
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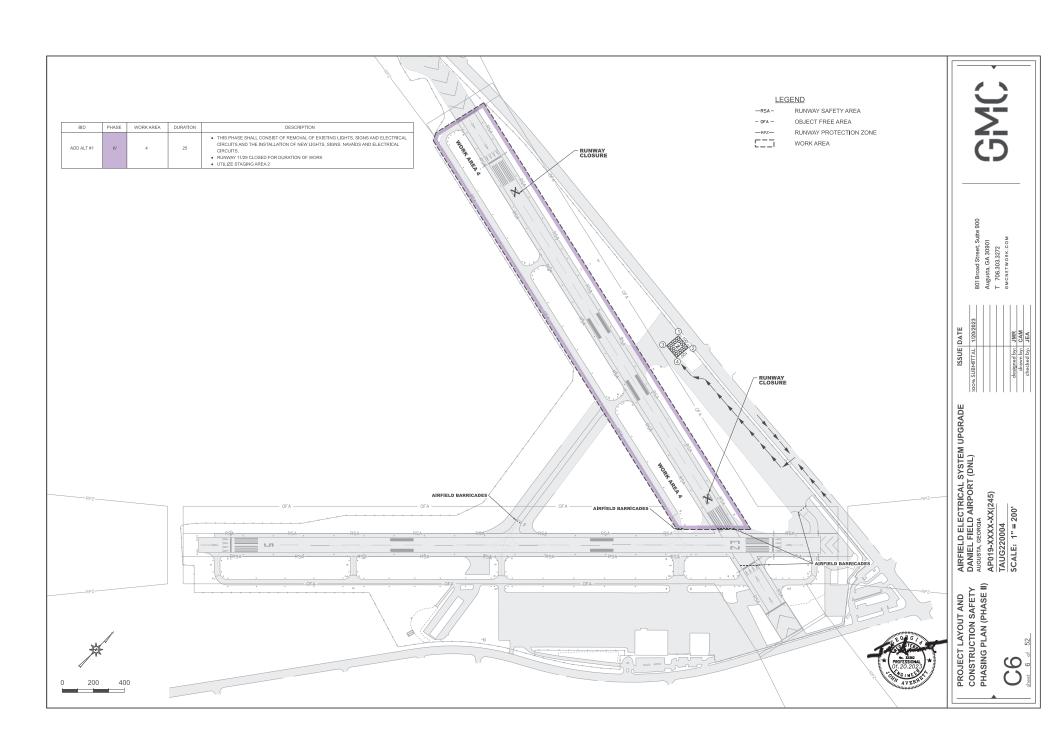
JOHN AVERRETT LICENSE NO. 32362

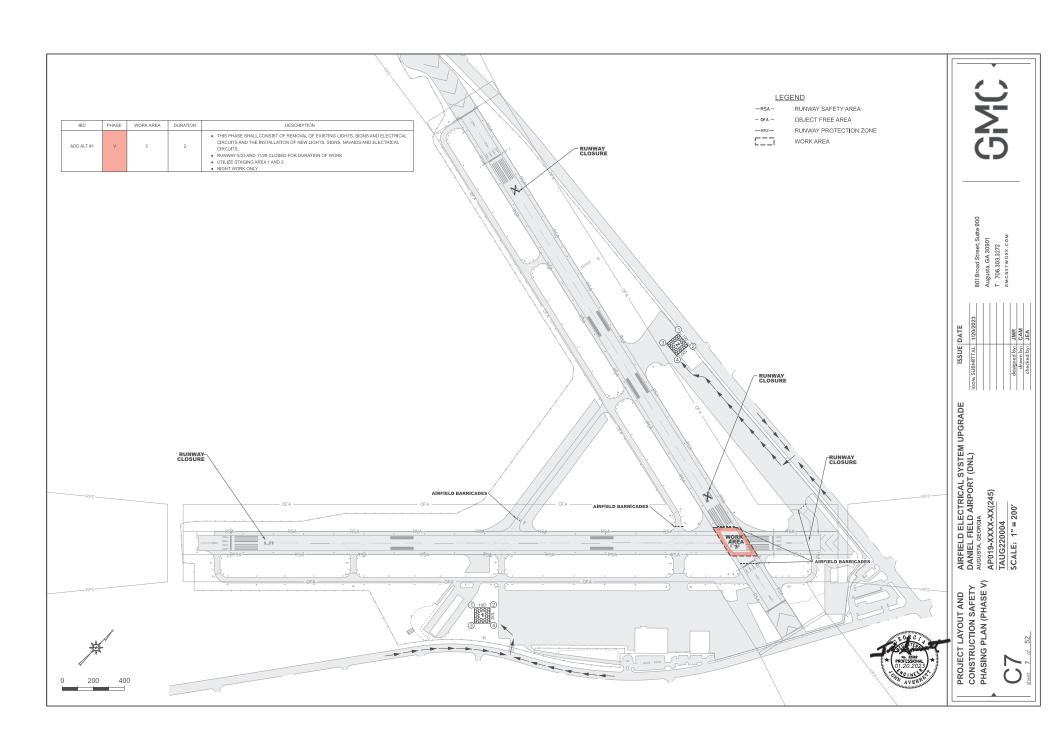


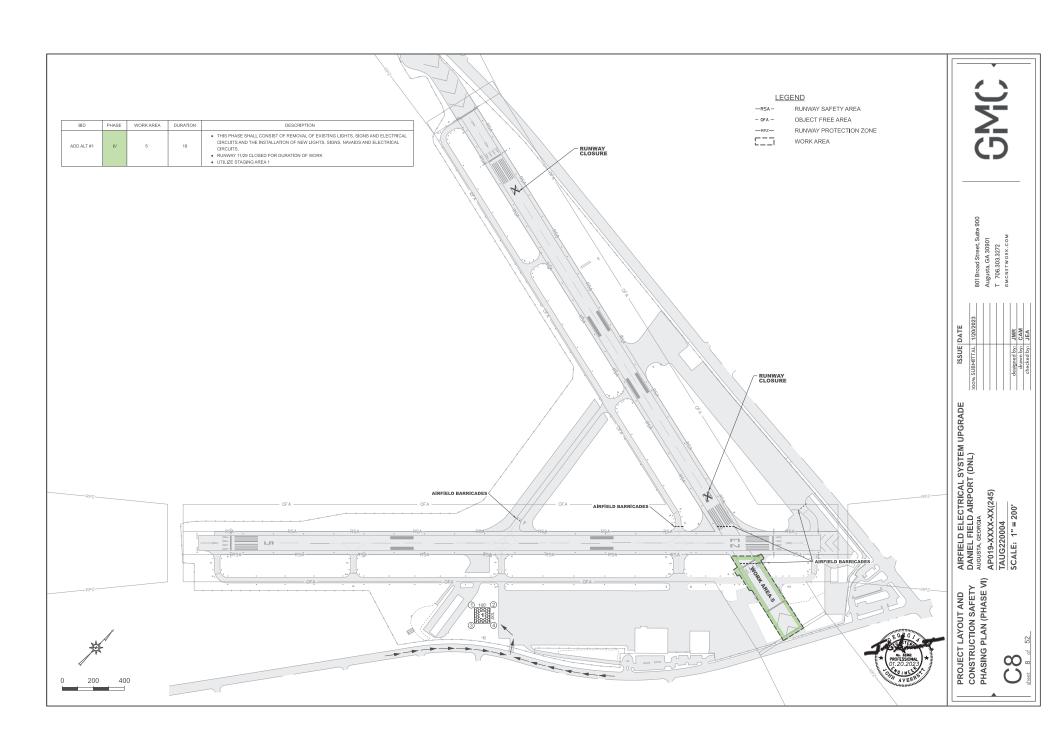






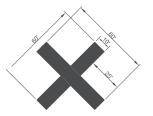






SAFETY NOTES

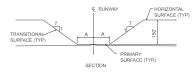
- 1. ALL CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING ON THE AIRPORT PROPERTY SHALL BE MARKED WITH STANDARD FAA WARNING FLAGS OR BEACONS. VEHICLES AND EQUIPMENT OPERATING DURING HOURS OF DARKNESS OR REDUCED VISIBILITY SHALL BE LIGHTED WITH A FLASHING CIRCULAR AMBER EMERGENCY WARNING LIGHT, ACCORDING TO FAA ADVISORY CIRCULAR 150/5370-2F.
- 2. ALL FOREMAN'S AND SUPERINTENDENT'S VEHICLES SHALL CONTAIN RADIOS CAPABLE OF TRANSMITTING AND RECEIVING THE UNICOM FREQUENCY OF 123.05 MHZ. NORMAL RADIO COMMUNICATIONS BETWEEN CONTRACTOR PERSONNEL WILL NOT BE ALLOWED ON THE UNICOM CONTROL OR ANY OTHER FAA FREQUENCY
- 3. CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING NEAR FUEL FARM FACILITY. FLAMMABLE FUEL TANKS EXIST IN THE FUEL FARM.
- 4. ALL OPEN EXCAVATIONS SHALL BE ADEQUATELY MARKED AND SIGNED.
- 5. THE CONTRACTOR SHALL NOT AT ANY TIME BE ON THE RUNWAY UNLESS THE ENGINEER OR AIRPORT PERSONNEL GIVES PRIOR APPROVAL.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION, MAINTENANCE, REMOVAL AND CLEANUP OF ALL HAUL ROUTES (ON AND OFF AIRPORT PROPERTY).
- 7. ALL ACTIVE AIRPORT OPERATIONAL AREAS ADJACENT TO WORK AREAS SHALL BE SEPARATED BY BARRICADES.
- 8. RUNWAY WILL BE CLOSED AS NECESSARY FOR WORK PERFORMED IN THE OFA.
- 9. RUNWAY CLOSURE X'S MUST BE SECURED BY DOUBLE-BAGGED YELLOW SANDBAGS PLACED AT EVERY CORNER AND APPROXIMATLEY 10' SPACING BETWEEN EACH BAG. IF A BAG IS DAMAGED OR TARNISHED, CONTRACTOR IS REQUIRED TO CLEAN DEBRIS AND REPLACE APPROPRIATLY.



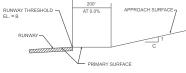
RUNWAY CLOSURE DETAIL Not to scale

NOTE: CONTRACTOR SHALL MAINTAIN ALL RUNWAY CLOSURES THROUGHOUT THE DURATION OF THE PROJECT.

PART 77 DETAIL Not to scale

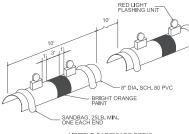


PAVEMENT	SAFETY AREA WIDTH						
RUNWAY 5/23	150'						
RUNWAY 11/29	150'						
SAFETY AREA DIMENSIONS							



RUNWAY END	А	В	С
RUNWAY 5	250	373.9	20
RUNWAY 23	250	422.3	20
RUNWAY 11	250	421.4	34
RUNWAY 29	250	418.7	20

NOTE:
THE PART 77 SURFACE IS CENTERED ON THE RUNWAY AT THE CENTERLINE
ELEVATION AND TO THE WIDTH INDICATED. THE PART 77 SURFACE
IS LOCATED ON THE PROFILE OF THE EXTENDED RUNWAY CENTERLINE AT
THE RUNWAY THERSHOUL ELEVATION TO A POINT 200 BEYOND EACH THRESHOLD.
THE SECTION THEN RISES ALONG THE SLOPES INDICATED.



AIRFIELD BARRICADE DETAIL
Not to scale

CAUTION LIGHTS TO BE RED IN COLOR AND FLASHING DURING HOURS OF DARKNESS, UNITS TO BE PLACED ADJACENT TO EACH OTHER. THERE WILL BE NO DIRECT PAYMENT FOR FURNISHING, MAINTENANCE, OR REMOVAL OF THIS BARRIER. UNITS MUST BE SECURED TO PVC.



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AUGUSTA, GEORGIA
APO19-XXX-XX[245)
TAUG220004
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CONSTRUCTION SAFETY NOTES AND DETAILS





		SWITCH LEGEND						
\$	WAL	L SWITCH SPST 42" AFF TO CENTER UNO 20A 120/277V.						
\$м	MOT	OR RATED TOGGLE SWITCH 30A 120/277V 2HP MAX 120/240V.						
		AIRFIELD LIGHTING LEGEND						
•		MEDIUM INTENSITY TAXIWAY LIGHT (BLUE LENS), BASE MOUNTED.						
+		MEDIUM INTENSITY TAXIWAY LIGHT (BLUE LENS), STAKE MOUNTED.						
Φ,	(MEDIUM INTENSITY RUNWAY LIGHT (COLOR AS INDICATED, G=GREEN, R=RED, W=WHITE, Y=YELLOW, O=OBSCURE), BASE MOUNTED.						
φ _x		MEDIUM INTENSITY RUNWAY LIGHT (COLOR AS INDICATED, G=GREEN, R=RED, W=WHITE, Y= YELLOW, O=OBSCURE), STAKE MOUNTED.						
	Gs	GUIDANCE SIGN, SEE SIGN LAYOUT SHEETS E9, E10, E27, & E28.						
	P	PAPI LIGHT UNIT, "EX' INDICATES EXISTING TO REMAIN.						
PCU		PAPI CONTROL UNIT.						
		UNIDIRECTIONAL REIL, HEAD AND POWER CONTROL UNIT.						
•		OMNI DIRECTIONAL REIL, HEAD AND POWER CONTROL UNIT.						
LA]	FIELD LIGHTNING ARRESTOR.						
	-	AIRFIELD LIGHTING DEMOLITION LEGEND						
ф		EXISTING AIRFIELD MEDIUM INTENSITY LIGHT TO BE REMOVED UNO.						
	\	EXISTING RUNWAY 5KV CIRCUIT/WIRING TO BE REMOVED.						
/	\	EXISTING TAXIWAY 5KV CIRCUIT/WIRING TO BE REMOVED.						
/		EXISTING PAPI 5KV CIRCUIT/WIRING TO BE REMOVED.						
C	===	EXISTING DUCT BANK TO REMAIN.						
(1))	EXISTING JUNCTION CAN / BOX TO REMAIN.						
04		EXISTING REIL LIGHT UNIT AND ALL ASSOCIATED COMPONENTS TO BE REMOVED.						

EXISTING PAPI LIGHT UNIT AND ALL ASSOCIATED COMPONENTS TO BE REMOVED UNO.

	POWER LEGEND
	PANELBOARD 208/120V, SURFACE MOUNTED.
	PANELBOARD, 480/277V, SURFACE MOUNTED.
×	DISCONNECT SWITCH, NEMA 1, NON-FUSED, SUBSCRIPT INDICATES DISCONNECT SWITCH AMP RATING - SEE DISCONNECT SWITCH SCHEDULE.
×	DISCONNECT SWITCH, NEMA 1, FUSED, SUBSCRIPT INDICATES DISCONNECT SWITCH AMP RATING - SEE DISCONNECT SWITCH SCHEDULE.
×	DISCONNECT SWITCH, NEMA 3R, FUSED, SUBSCRIPT INDICATES DISCONNECT SWITCH AMP RATING - SEE DISCONNECT SWITCH SCHEDULE.
\sqrt{x}	COMBINATION MOTOR STARTER DISCONNECT SWITCH.
©	PHOTOELECTRIC CELL AS SPECIFIED ON PLANS. MOUNT IN INCONSPICUOUS LOCATION ABOVE ROOF FACING NORTH.
Т	NEW TRANSFORMER.
EF	EXHAUST FAN.
D	DAMPER MOTOR.
	EXISTING PANELBOARD, SURFACE MOUNTED.
Ū~-	JUNCTION BOX WALL MOUNTED AT HEIGHT REQUIRED WITH FLEXIBLE CONNECTION TO EQUIPMENT.
J	JUNCTION BOX CEILING/WALL MOUNTED. REFER TO SPECIFICATIONS FOR COLOR REQUIREMENTS FOR COVER.
SPD	SURGE PROTECTION DEVICE
Д	METER BASE
△ _{GB}	GROUND BUS BAR
PP CCR X	PAPI CONSTANT CURRENT REGULATOR, "X" INDICATES PAPI NAME.
RW CCR	RUNWAY CONSTANT CURRENT REGULATOR, "X" INDICATES RUNWAY NAME.
TW CCR	TAXIWAY CONSTANT CURRENT REGULATOR, "X" INDICATES TAXIWAY NAME.
Ф	DUPLEX RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO.
Φ	SIMPLEX RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO.
₩ P	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (5ma) RECEPTACLE WALL MOUNTED 18 A.F.F. TO CENTER UNO. "WP" INDICATES WEATHERPROOF "IN-USE" HEAVY DUTY METAL COVER.
T	THERMOSTAT.
(TC)	TIME CLOCK.
(RC)	RADIO CONTROLLER.

	CONDUIT & WIRING LEGEND
НН	ELECTRICAL HANDHOLE PULL OR JUNCTION BOX AS NOTED
<u></u>	CONDUIT OR RACEWAY EXPOSED TO VIEW. RUN PARALLEL OR PERPENDICULAR TO STRUCTUR CONCEAL FROM VIEW AS MUCH AS POSSIBLE.
	CONDUIT OR RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
/	CONDUIT OR RACEWAY UNDERGROUND OR CONCEALED IN FLOOR SLAB.
—ое——ое—	OVERHEAD ELECTRICAL CABLE.
UP	UNDERGROUND PRIMARY.
us	UNDERGROUND SECONDARY.
	GROUNDING CONDUCTOR. SEE PLANS & DETAILS FOR MORE INFORMATION.
R	EXISTING ELECTRICAL LINE TO BE REMOVED.
•	CONDUIT STUB UP.
8	CONDUIT STUB DOWN.
	CONDUIT STUB IN.
	PHASE CONDUCTOR, NEUTRAL CONDUCTOR AND ISOLATED GROUND CONDUCTOR.
/#/	HOMERUN. TICKS INDICATES NUMBER OF CONDUCTORS NO TICKS INDICATES 1 PHASE, 1 NEUTRAL, 1 GROUND CONDUCTOR.
	UNDERGROUND HOMERUN. ARROW INDICATES NUMBER OF CIRCUITS. TICKS INDICATES NUMBER OF CONDUCTORS NO TICKS INDICATES 1 PHASE, 1 NEUTRAL, 1 GROUND CONDUCTOR
1	EXPOSED TO VIEW HOMERUN. ARROW INDICATES NUMBER OF CIRCUITS. TICKS INDICATES NUMBER OF CONDUCTORS NO TICKS INDICATES 1 PHASE, 1 NEUTRAL, 1 GROUND CONDUCTOR
<u></u>	GROUND ROD AS SPECIFIED, 3/4*X10'. SEE DETAIL 7/E20.
MH	ELECTRICAL MANHOLE. SEE DETAIL 4&5/E20.
С	CONDUIT MARKER IN-GRADE. SEE DETAIL 4/E14.
D	DUCT MARKER IN-GRADE. SEE DETAIL 4/E14.
	PROPOSED RUNWAY 5-23 (R1) 5KV CIRCUIT (BASE BID) (DASHES/TICKS INDICATES NUMBER OF CABLES).
	PROPOSED TAXIWAY 'D' (T1) 5KV CIRCUIT, TAXIWAY 'A/D' (T2) 5KV CIRCUIT (BASE BID) AND TAXIWAY 'A' (T3) 5KV CIRCUIT (ALTERNATE) (DASHES/TICKS INDICATES NUMBER OF CABLES).
	PROPOSED PAPI 5-23 5KV CIRCUIT (BASE BID) (DASHES/TICKS INDICATES NUMBER OF CABLES).
	PROPOSED RUNWAY 11-29 (R2) 5KV CIRCUIT (ALTERNATE) (DASHES/TICKS INDICATES NUMBER (CABLES).
	PROPOSED 120V WINDCONE CIRCUIT (BASE BID).

	LIGHTING LEGEND
XE	1" x 4" SURFACE TROFFER, WRAPAROUND OR ENCLOSED STRIP FIXTURE - SURFACE MOUNTED OR CHAINHUNG. LETTER "X" INDICATES FIXTURE TYPE, SEE LUMINAIRE SCHEDULE. THE LETTER "E" INDICATES THAT THE FIXTURE IS EQUIPPED WITH EMERGENCY BATTERY.
\bigcirc \dashv _{XE}	WALL MOUNTED LIGHT FIXTURE. LETTER "X" INDICATES FIXTURE TYPE. SEE LUMINAIRE SCHEDULE. THE LETTER "E" INDICATES THAT THE FIXTURE IS EQUIPPED WITH EMERGENCY BATTERY.
₩ x	EMERGENCY LIGHT WITH BATTERY POWER, CONNECTED TO UNSWITCHED HOTLEG. LETTER "X" INDICATES FIXTURE TYPE, SEE LUMINAIRE SCHEDULE.



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100% SUBMITTAL 1/20/2023 ISSUE DATE

designed by: JDZ drawn by: JRA, JDZ checked by: JEA

AIRFIELD ELECTRICAL UPGRADE DANIEL FIELD AIRPORT (DNL) AUGUSTA, GEORGIA
AP019-XXX-XX(245)
GMC NUMBER: TAUG220004
SCALE: NOT TO SCALE



GENERAL ELECTRICAL NOTES

- THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES AS NECESSARY FOR A NEAT, COMPLETE, AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS WHICH CONFORMS TO ALL LOCAL CODES, PLANS, AND SPECIFICATIONS
- 2. ELECTRICAL CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO ALL CIVIL, ELECTRICAL AND ENTIRE PROJECT MANUAL, ELECTRICAL CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION, ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO
- S. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A
- 4 ALL INSTALLATIONS SHALL CONFORM TO THE LATEST EDITION OF ALL ENFORCED INTERNATIONAL BUILDING CODE AND ALL FAA CIRCULAR
- EACH RIDDER SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND TO ASCERTAIN THE EXTENT OF WORK REQUIRED. FAILURE TO VISIT SITE SHALL NOT EXCUSE CONTRACTOR FROM PERFORMING REQUIRED WORK NOR SHALL IT BE AN ACCEPTABLE REASON FOR REQUESTING ADDITIONS TO THE CONTRACT.
- ALL MATERIALS AND FOUIPMENT SHALL BE NEW AND SHALL BE LISTED BY AN AGENCY SLICH AS LINDERWRITER'S LABORATORIES (UL) ELECTRICAL TESTING LABORATORY (ETL), ETC AND ACCEPTED BY THE LOCAL AUTHORITY HAVING SURISDICTION. FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER.
- THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR, PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION.
- 8. ALL ELECTRICAL CONNECTIONS WILL BE CODE COMPLIANT WITH N.E.C.
- 9. WIRING SYSTEMS SHALL CONSIST OF COPPER WIRING INSTALLED IN CONDUIT, MINIMUM WIRE SIZE SHALL BE #12AWG, MINIMUM CONDUIT SIZE SHALL BE 3/4"
- 10. CONDUCTORS SHALL BE 99% COPPER (NO ALUMINUM CONDUCTORS WILL BE ACCEPTED). MINIMUM SIZE #12 AWG-3/4" C.
- 11 SUBSURFACE CONDUIT SHALL BE SCHEDULE 40 PVC LING. FOR RUNS GREATER THAN 50 FEET IN LENGTH, VERTICAL TURN LIPS SHALL BE GRS. SWEEP 90S WITH A BITUMASTIC COATING UNO.
- 12. CONTRACTOR SHALL REPAIR ANY DISTURBED AREA TO SAME COMPACTION, GRADE, SLOPE, ETC. AS ORIGINAL AREA INCLUDING REPLACEMENT OF SOD, GRASS, ROCK, GRAVEL, RIP-RAP, ETC. TO THE SATISFACTION OF THE OWNER AND ENGINEER
- 13. ANY AREA OF CONSTRUCTION DAMAGED DURING THIS CONTRACT SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.
- 14. WITHIN ALL AREAS OF WORK, ALL UNUSED OR ABANDONED ELECTRICAL CONDUIT, CONDUCTORS, FITTINGS AND SUPPORTS SHALL BE REMOVED.
- 15. CLEAN UP ALL DEBRIS AROUND CONSTRUCTION SITE DAILY.
- 16.PROVIDE COMPLETE AIRFIELD LIGHTING SYSTEMS AS INDICATED ON THE CONTRACT DRAWINGS AND SPECIFIED, INCLUDING BUT NOT LIMITED TO, RUNWAY AND TAXIWAY LIGHTS, THRESHOLD LIGHTS, SIGNS, PAPI'S, REIL'S, LIGHTING CONTROL PANEL, RADIO CONTROLLER, TRANSFORMERS, CCRs BASE-CANS GROUNDING AND ASSOCIATED WIRING AND CONCRETE PADS AS INDICATED
- 17. PROVIDE ELECTRICAL SERVICE AND POWER DISTRIBUTION AS INDICATED ON THE CONTRACT DRAWINGS AND SPECIFIED, INCLUDING BUT NOT LIMITED TO VALUET BUILDING PANEL ROARDS. TRANSFER SWITCH, GROUNDING, AND ASSOCIATED WIRING
- 18.MAINTAIN A MINIMUM 4" CLEARANCE BETWEEN 5kV AND 600 VOLT NONMETALLIC CONDUITS AS INDICATED IN THE CABLE TRENCH DETAIL INCLUDING WITHIN FOUIPMENT, ENCLOSURES, SUCH AS WITHIN CCR'S, MAINTAIN A MINIMUM 6" CLEARANCE BETWEEN CONTROL CABLES AND ALL POWER CABLES AS INDICATED IN THE CABLE TRENCH DETAIL. INCLUDING WITHIN EQUIPMENT ENCLOSURES.
- 19.DO NOT INSTALL 5kV CABLES IN SAME RACEWAY WITH 600 VOLT CABLES.
- 20.TERMINATION OF PHASE, NEUTRAL AND GROUNDING CONDUCTORS SHALL BE MADE TO INDIVIDUAL TERMINALS / LUGS AT PANELS,
- 21.PROVIDE WARNING TAPE FOR UNDERGROUND CONDUITS AS SPECIFIED IN SPECIFICATION L-110 AND AS INDICATED ON DETAILS. INSTALL WARNING TAPE ABOVE THE FULL LENGTH OF THE CONDUIT RUNS AND AT A MAXIMUM OF 4" BELOW GRADE.
- 22. WHERE STEAL CONDUIT OR COPPER CONDUCTORS EMERGE FROM CONCRETE INTO SOIL, APPLY DIRECT BURIAL TAPE WRAP THE THE CONDUIT OR CONDUCTORS TO PREVENT CORROSION AS SPECIFIED IN SPECIFICATION SECTION L-109. TAPE WRAP SHALL BE EQUAL TO 3M TEMFLEX 1700 VINYL ELECTRICAL TAPE. INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.
- ALL WORK OF THIS CONTRACT REQUIRING POWER INTERRUPTIONS TO EQUIPMENT SHALL BE COORDINATED WITH THE OWNER. THE OWNER WILL NEED AT LEAST A 48 HOUR NOTIFICATION. WORK REQUIRING INTERRUPTIONS SHALL BE CONDUCTED DURING THE TIMES AND DAYS STIPULATED BY THE OWNER.
- 24.CONSTANT CURRENT REGULATORS SHALL BE CALIBRATED AND TESTED IN ACCORDANCE WITH SPECIFICATION L-109.
- 25 AT SUBMITTAL COMPLETION REMOVE STANDING WATER AND DEBRIS FROM ALL BASE-CANS

ELECTRICAL DEMOLITION NOTES

- PARTIAL AND TOTAL DEMOLITION OF PORTIONS SHALL BE PERFORMED ALONG WITH ALL NECESSARY MODIFICATIONS TO THAT PORTION OF THE EXISTING BUILDING WHICH SHALL REMAIN SO THAT IT CONTINUES TO FUNCTION UNAFFECTED BY THE DEMOLITION AND ASSOCIATED NEW CONSTRUCTION.
- WHERE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, THE DRAWINGS INDICATE THE GENERAL AREAS OF WORK INVOLVED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL PERFORM WORK OUTSIDE THOSE AREAS SHOWN AS IS NECESSARY TO COMPLY WITH THE INTENT OF THIS SECTION.
- THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXISTING SITE WITH THE WORK OF ALL OTHER TRADES AND INCLUDE ALL WORK NECESSARY TO COMPLY WITH THE INTENT OF THE
- IT SHALL BE UNDERSTOOD THAT FIELD CONDITIONS MAY BE ENCOUNTERED DURING THE EXECUTION OF THIS CONTRACT WHICH WILL REQUIRE EXTENSION OR RELOCATION OF EXISTING SYSTEMS OR EQUIPMENT WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, BUT WHICH ARE REQUIRED TO MEET THE STATED INTENT THAT THE BUILDING CONTINUE TO FUNCTION UNAFFECTED BY THE DEMOLITION AND ASSOCIATED NEW CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL INCLUDE SUCH WORK AS WOULD NORMALLY BE EXPECTED IN AN EXISTING ELECTRICAL SYSTEM TYPE.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TOOLS, EQUIPMENT LABOR, ETC. IN ORDER TO ACCOMPLISH THE DEMOLITION PORTION OF THE PROJECT.
- THE FLECTRICAL CONTRACTOR SHALL INCLUDE COORDINATION WITH THE GENERAL CONTRACTOR AND SUCH DEMOLITION OF THE EXISTING ELECTRICAL SYSTEMS AS IS NECESSARY SO THAT THE DEMOLITION WORK OF THE GENERAL CONTRACTOR SHALL NOT DAMAGE THOSE PORTIONS OF THE ELECTRICAL SYSTEMS WHICH ARE TO REMAIN I SERVICE, ARE TO BE REUSED, OR ARE TO BECOME THE PROPERTY OF THE OWNER
- TURN OVER ALL SALVAGEABLE MATERIALS AS NOTED, ITEMS SHOWN AS BEING REMOVED AND NOT REINSTALLED. ITEMS NOT DIRECTED OR REQUESTED TO BE TURNED OVER TO THE OWNER SHALL BE DISPOSED
- FOUIPMENT OR MATERIALS WHICH ARE TO BE REUSED OR TURNED OVER TO THE OWNER SHALL BE CAREFULLY REMOVED, CLEANED, AND STORED IN A CLEAN AND DRY AREA. SHOULD THE ELECTRICAL CONTRACTOR ENCOUNTER SUCH FOUIPMENT WHICH IS NOT IN SATISFACTORY CONDITION FOR REUSE AND NOT IN WORKING ORDER, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- WHERE EXISTING BRANCH CIRCUITS AND SYSTEMS ARE INTERRUPTED BY NEW WORK OR SYSTEMS (ELECTRICAL, COMMUNICATIONS, ETC.). EXTEND AND RECONNECT THOSE CIRCUITS AND SYSTEMS. WHERE THOSE CIRCUITS OR SYSTEMS MUST REMAIN IN SERVICE DURING T EXECUTION OF THIS CONTRACT, PROVIDE TEMPORARY CONNECTIONS LINTIL FINAL CONNECTIONS ARE COMPLETE
- THE INFORMATION CONTAINED IN THE DEMOLITION PLANS IS NOT CONSIDERED FULLY ACCURATE AS IT PERTAINS TO THE EXACT QUANTITY AND LOCATION IN THE FIELD. THE INFORMATION WAS OBTAINED FROM ASBUILTS AND LIMITED SITE VISITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATIONS SERVICE, AND QUANTITY OF ALL EXISTING ELECTRICAL COMPONENTS PRIOR TO BEGINNING DEMOLITION WORK. THE INFORMATION ON THE DEMOLITION PLANS IS TO BE USED AS A GUIDE TO THE CONTRACTOR TO COMPLETE THE DESIGN INTENT SHOWN. EXISTING ITEMS TO BE REJUSED CAN BE FOUND ON THE NEW WORK PLANS.
- BEFORE COMMENCEMENT OF DEMOLITION WORK ALL CIRCUITS THAT ARE BEING WORKED ON AT THE TIME SHALL BE SHUT DOWN AND PROVIDE A LOCKOUT/TAGOUT PROCEDURE AT THE ELECTRICAL VAULT. THE ASSOCIATED CIRCUIT BEING WORKED ON AT THAT TIME SHALL HAVE ITS EXISTING SAFETY CUTOUT REMOVED. DO NOT WORK ON ANY LIVE

	L ABBREVIATIONS
A, AMP ACSR	AMPERE ALUMINUM CONDUCTOR STEEL-REINFORCED
ACSR AF	AIRFIELD
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY (SYM RMS)
ALT	ALTERNATE
AWG	AMERICAN WIRE GAUGE
BSDC	BARE SOFT DRAWN COPPER
C	CONDUIT
CCR	CONSTANT CURRENT REGULATOR
CKT	CIRCUIT
CU	COPPER
DETD	DUAL ELEMENT TIME DELAY
FC	EMPTY CONDUIT
ELEC	ELECTRIC OR ELECTRICAL
EPR	ETHYLENE-PROPYLENE RUBBER INSULATION
EX	EXISTING TO REMAIN
EXIST	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
GFI	GROUND FAULT INTERRUPTER
G	GROUND
GRS	GALVANIZED RIGID STEEL
IN-PL	IN PLACE
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
MIN	MINIMUM
N12	NEMA 12 RATED FOR DUST ENCLOSURE
N3R	NEMA 3R RATED FOR EXTERIOR USE
NIC	NOT IN THIS CONTRACT
NEC	NATIONAL ELECTRIC CODE
PNL	PANEL
Ρ	POLE
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RE	REPLACE EXISTING
RECPT	RECEPTACLE
REQD	REQUIRED
RL	EXISTING ITEM TO BE RELOCATED
RM	EXISTING ITEM TO BE REMOVED
RU	RACK UNIT
RW	RUNWAY
SPD SPEC	SURGE PROTECTIVE DEVICE SPECIFICATIONS
	SWITCHBOARD
SWBD TVSS	
	TRANSIENT VOLTAGE SURGE SUPPRESSION
TW TYP	TAXIWAY TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT

VOLT VOLT AMPERE

WEATHERPROOF TRANSFORMER

WATT

NUMBER

XFMR



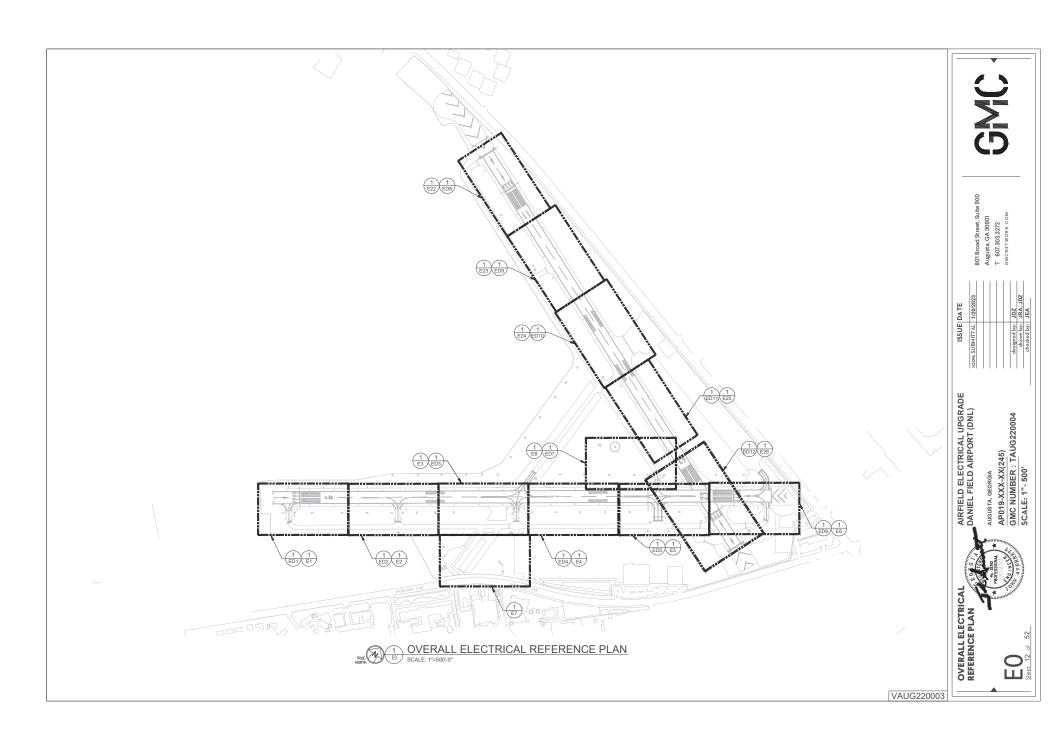
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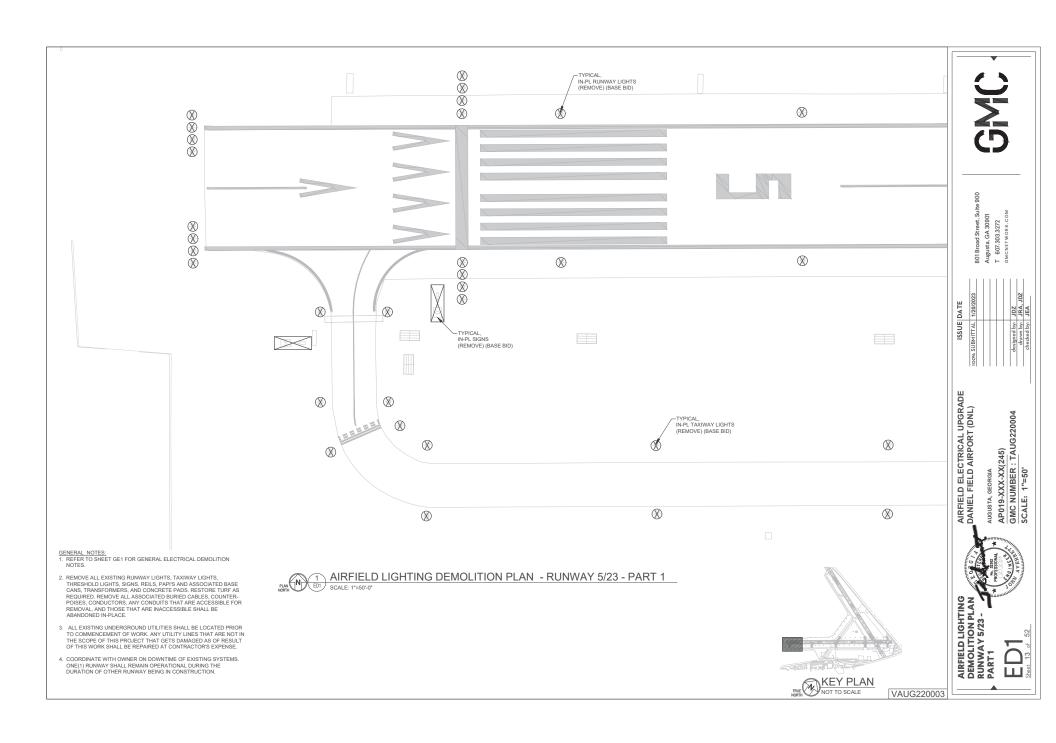


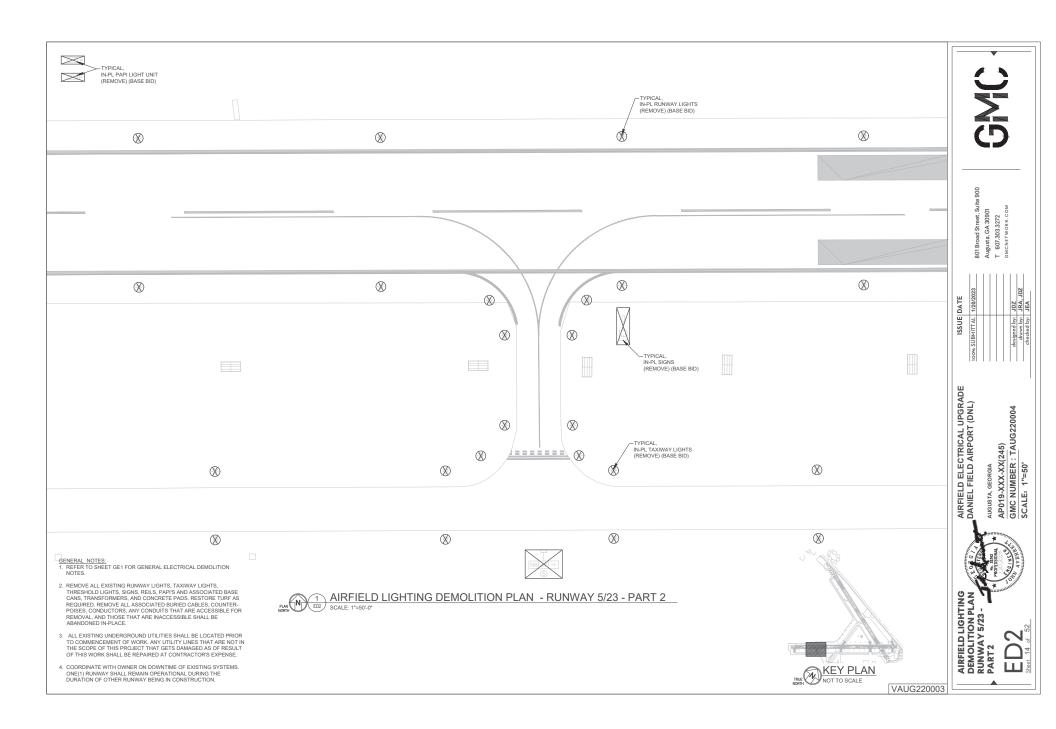
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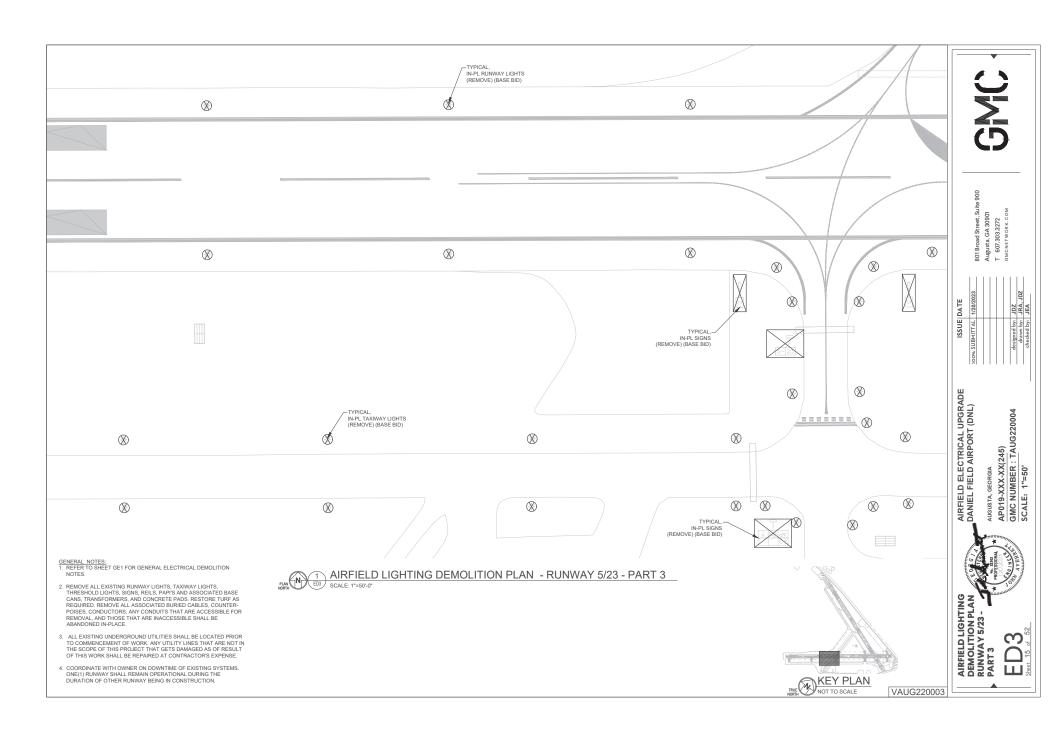
AIRFIELD ELECTRICAL UPGRADE DANIEL FIELD AIRPORT (DNL) AP019-XXX-XX(245) GMC NUMBER : TAUG220004 SCALE: NOT TO SCALE

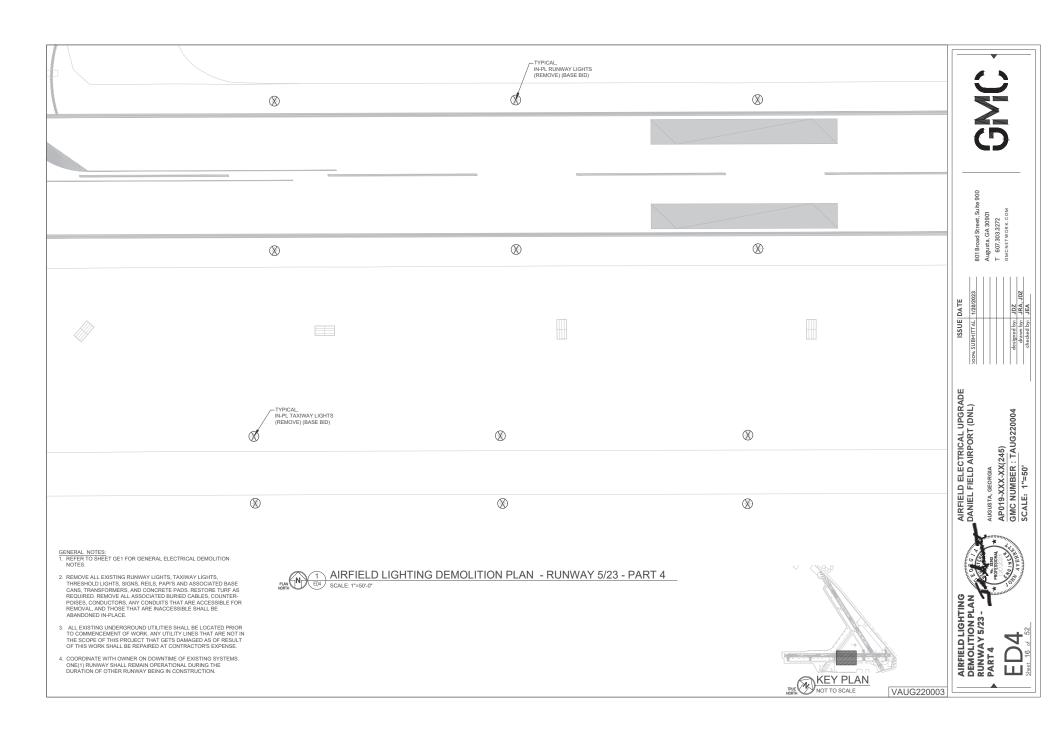


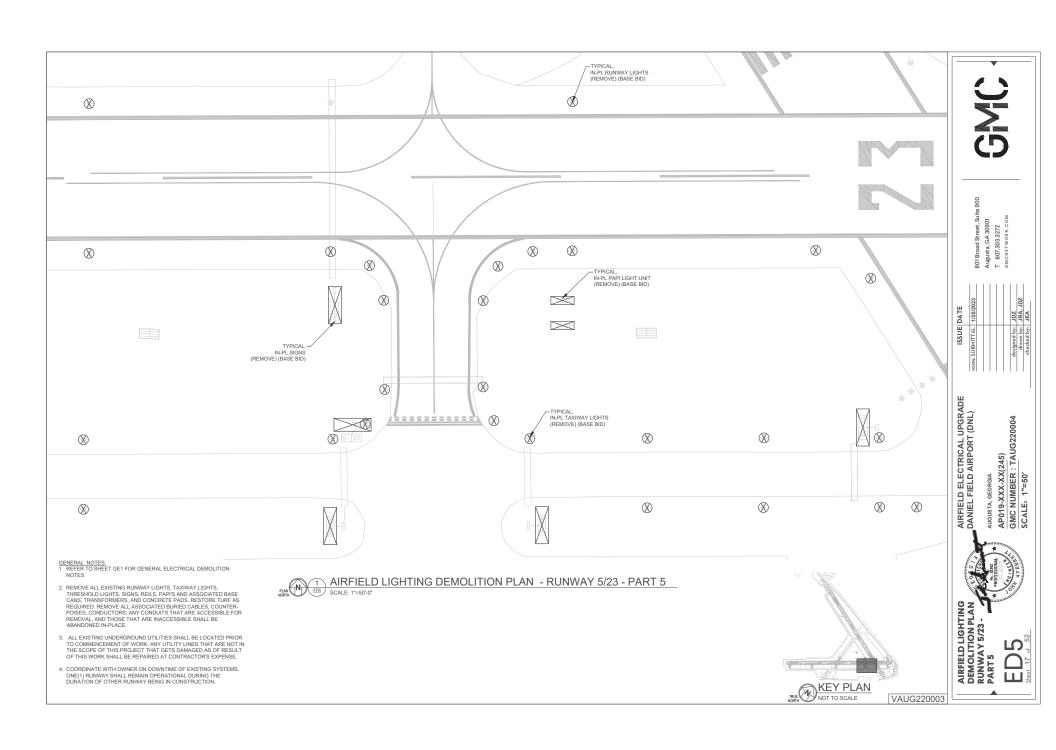


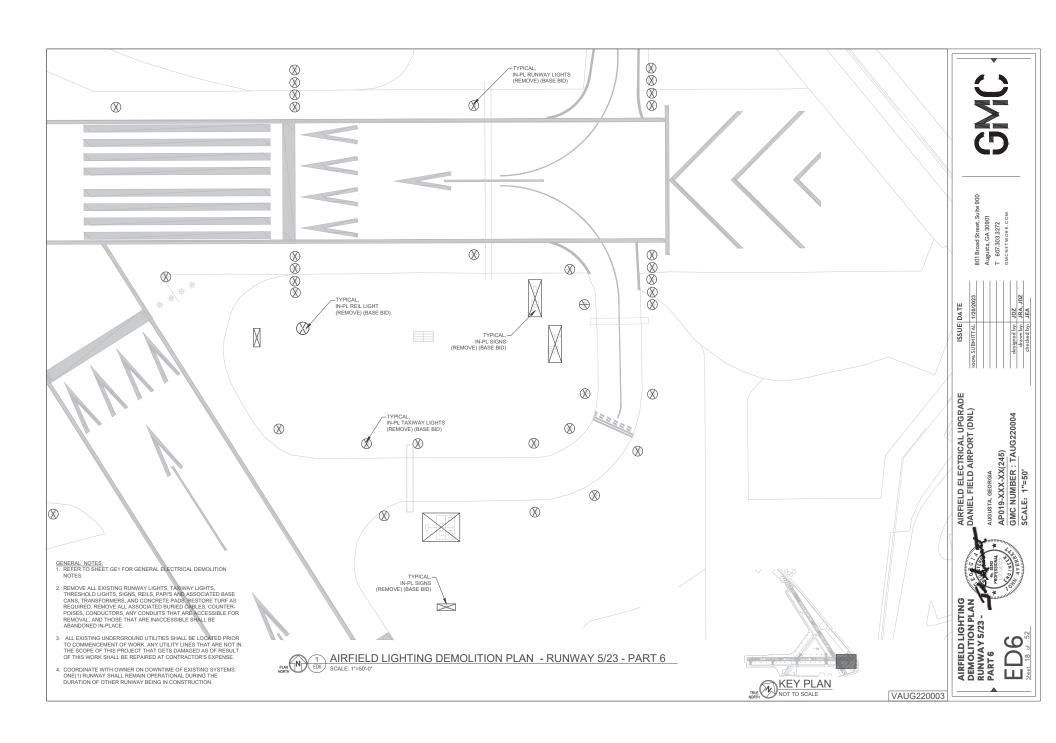












GENERAL NOTES:

1. REFER TO SHEET GE1 FOR GENERAL ELECTRICAL DEMOLITION

- 2. REMOVE ALL EXISTING RUNWAY LIGHTS, TAXIWAY LIGHTS, THRESHOLD LIGHTS, SIGNS, REILS, PAPIS AND ASSOCIATED BASE CANS, TRANSFORMERS, AND CONCRETE PADB. RESTORE TURF AS REQUIRED. REMOVE ALL ASSOCIATED BURIED CABLES, COUNTER-POISES, CONDUCTORS, ANY COMDUITS THAT ARE ACCESSIBLE FOR REMOVAL, AND THOSE THAT ARE INACCESSIBLE SHALL BE ABANDONED IN-PLACE.
- 3. ALL EXISTING UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO COMMENCEMENT OF WORK, ANY UTILITY LINES THAT ARE NOT IN THE SCOPE OF THIS PROJECT THAT GETS DAMAGED AS OF RESULT OF THIS WORK SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- COORDINATE WITH OWNER ON DOWNTIME OF EXISTING SYSTEMS.
 ONE(1) RUNWAY SHALL REMAIN OPERATIONAL DURING THE
 DURATION OF OTHER RUNWAY BEING IN CONSTRUCTION.

- 2. EXISTING AWOS SYSTEM TO REMAIN IN SERVICE NO WORK REQUIRED.





1) AIRFIELD LIGHTING DEMOLITION PLAN - EXISTING AWOS SYSTEM & WINDCONE PLAN NORTH NORTH SCALE: 1"=50'-0"



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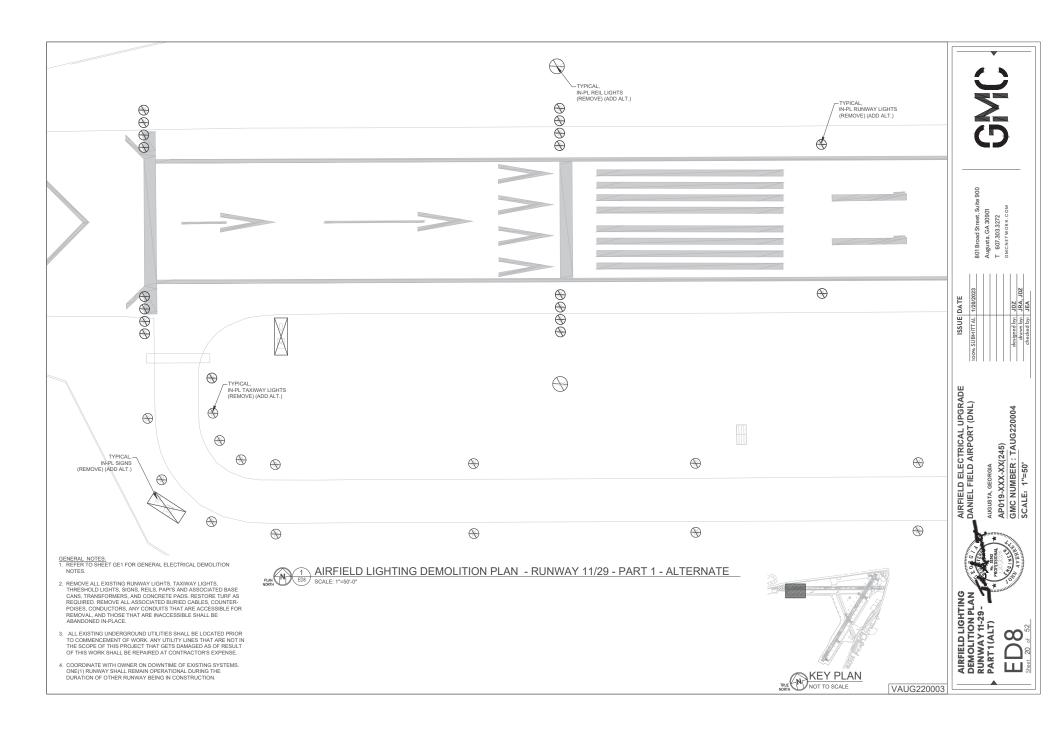
AIRFIELD ELECTRICAL UPGRADE DANIEL FIELD AIRPORT (DNL) AUGUSTA, GEORGIA
APO19-XXX-XX(245)
GMC NUMBER: TAUG220004
SCALE: 1"=50"

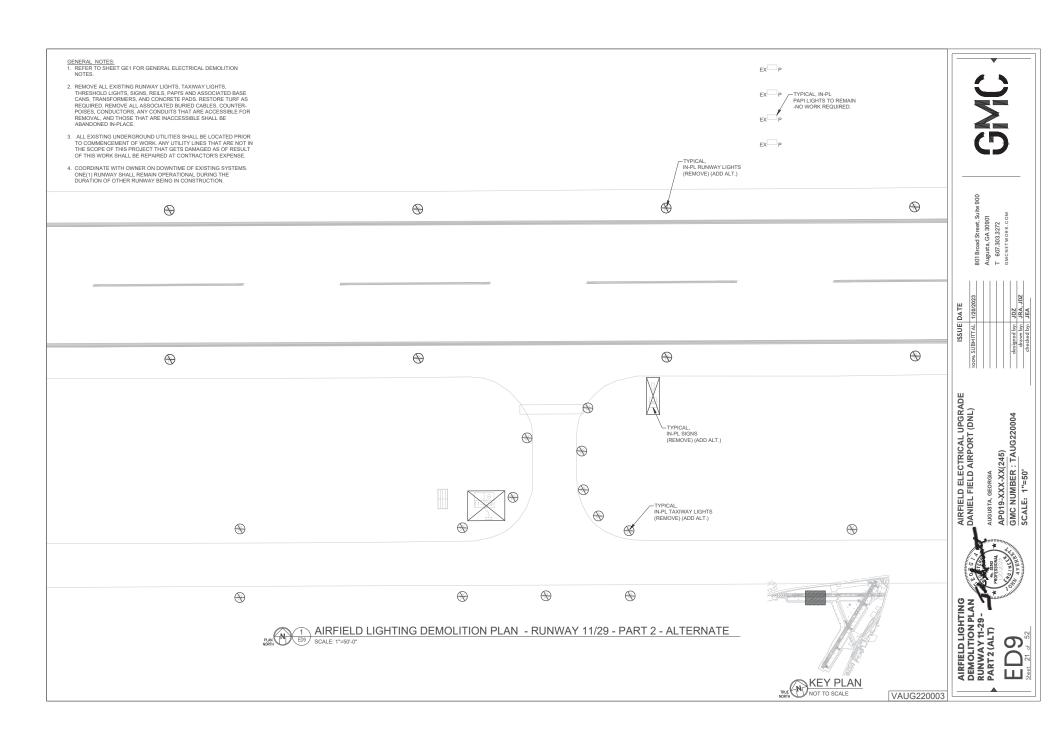


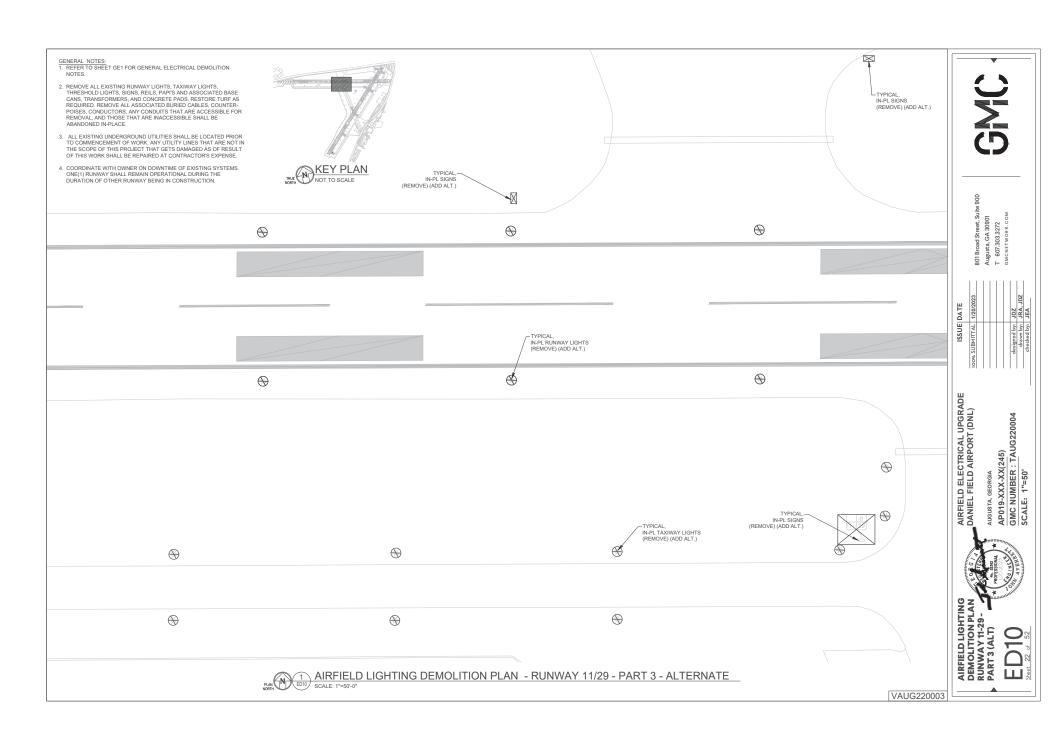


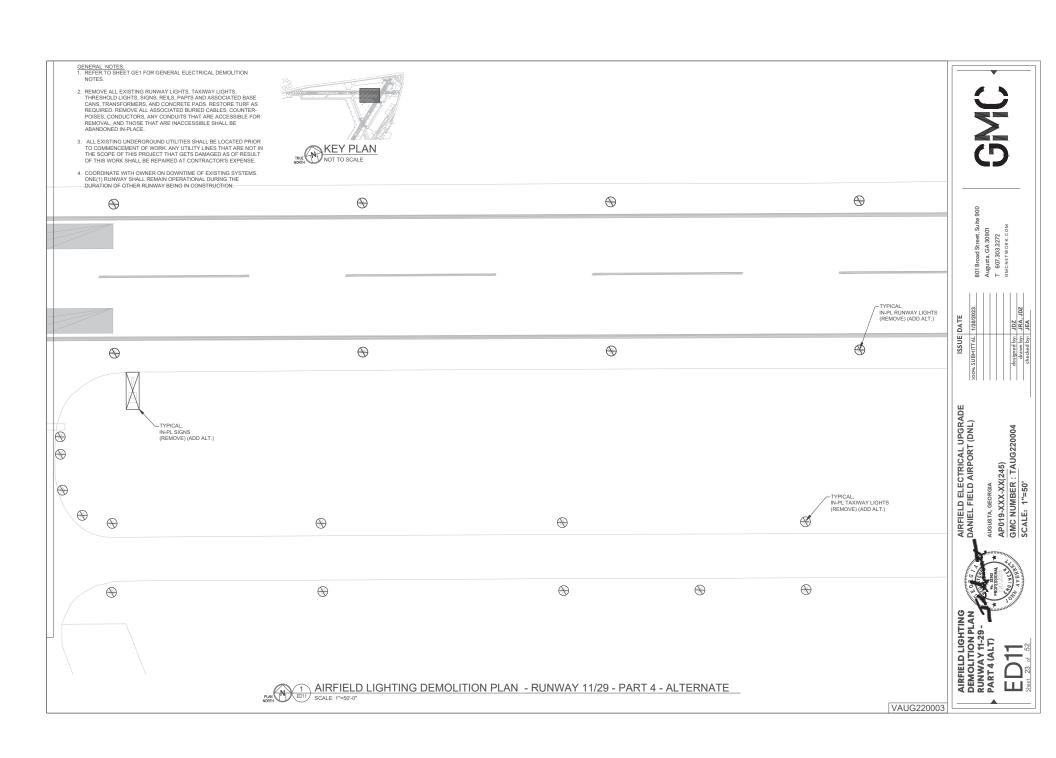
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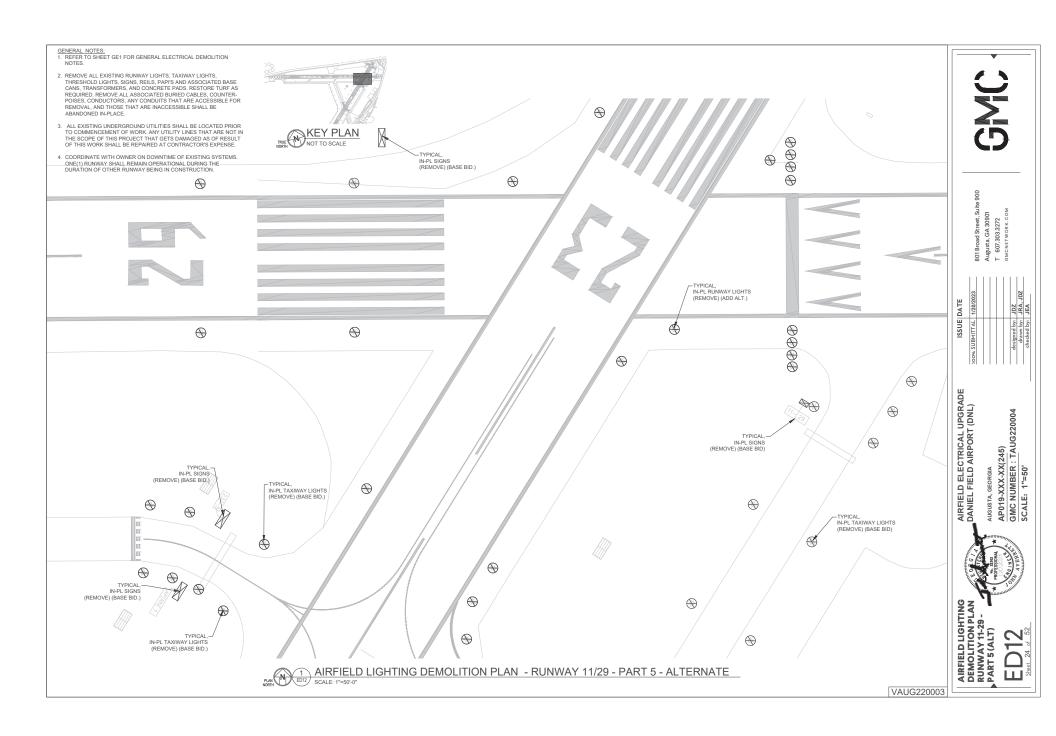
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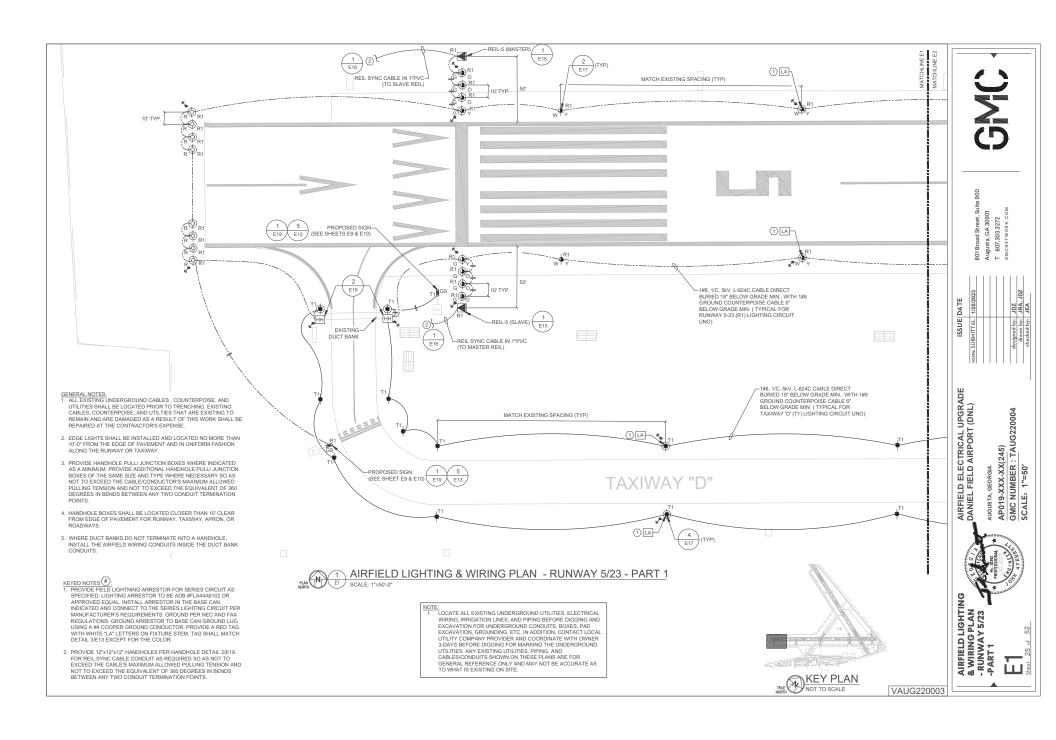


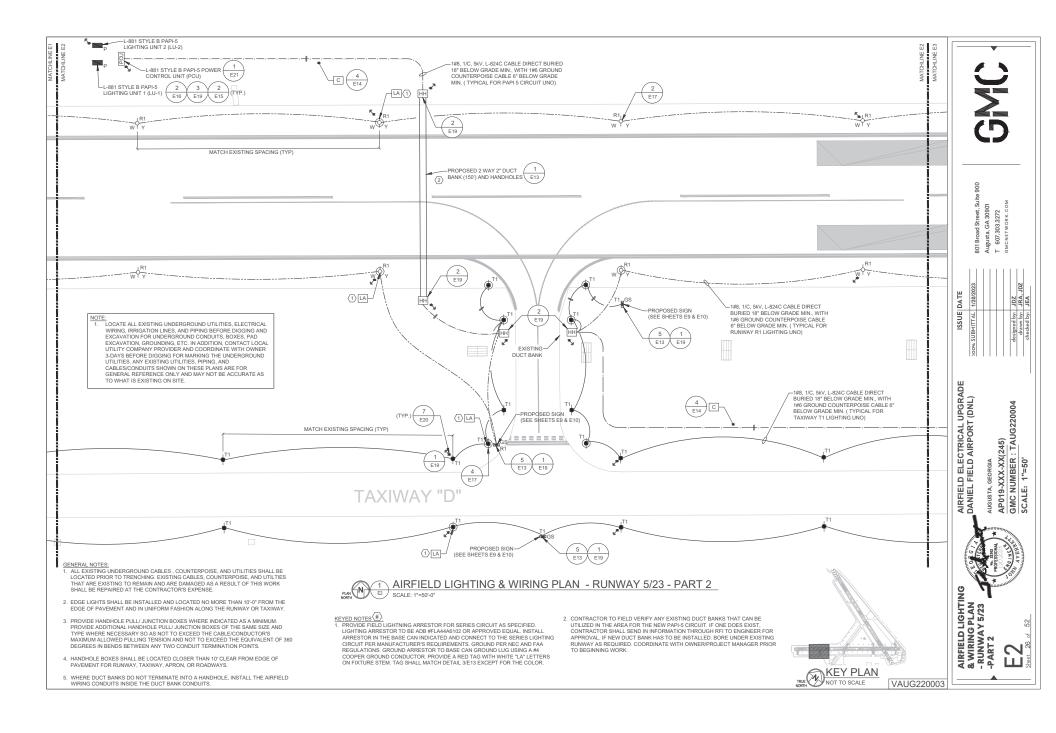


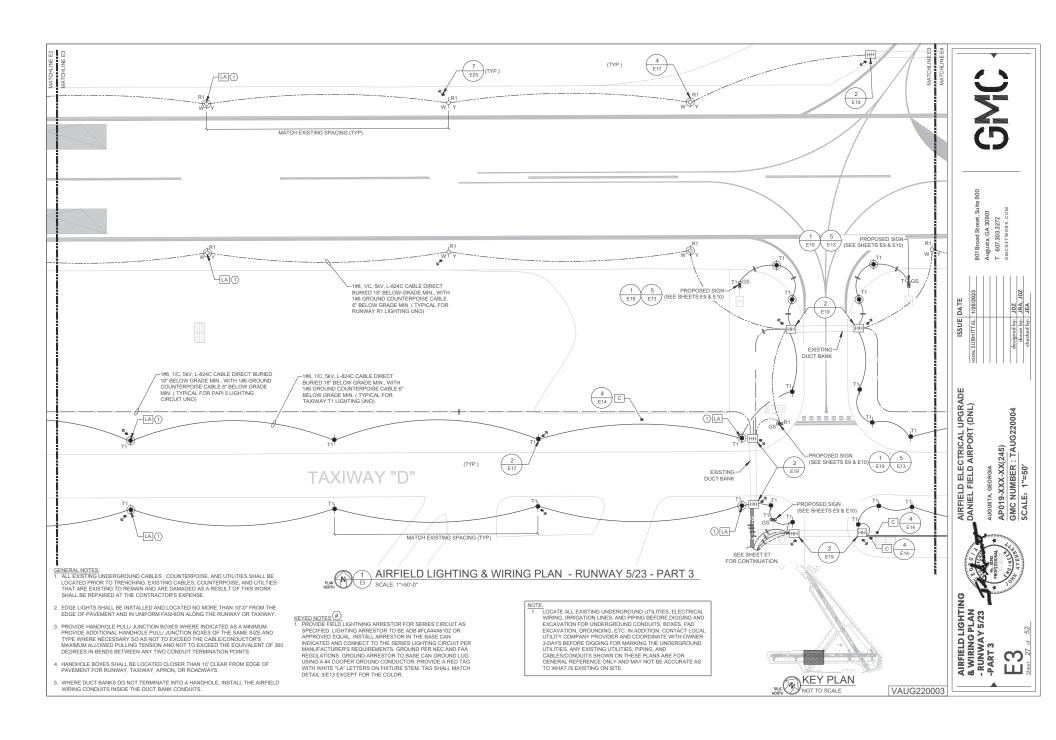


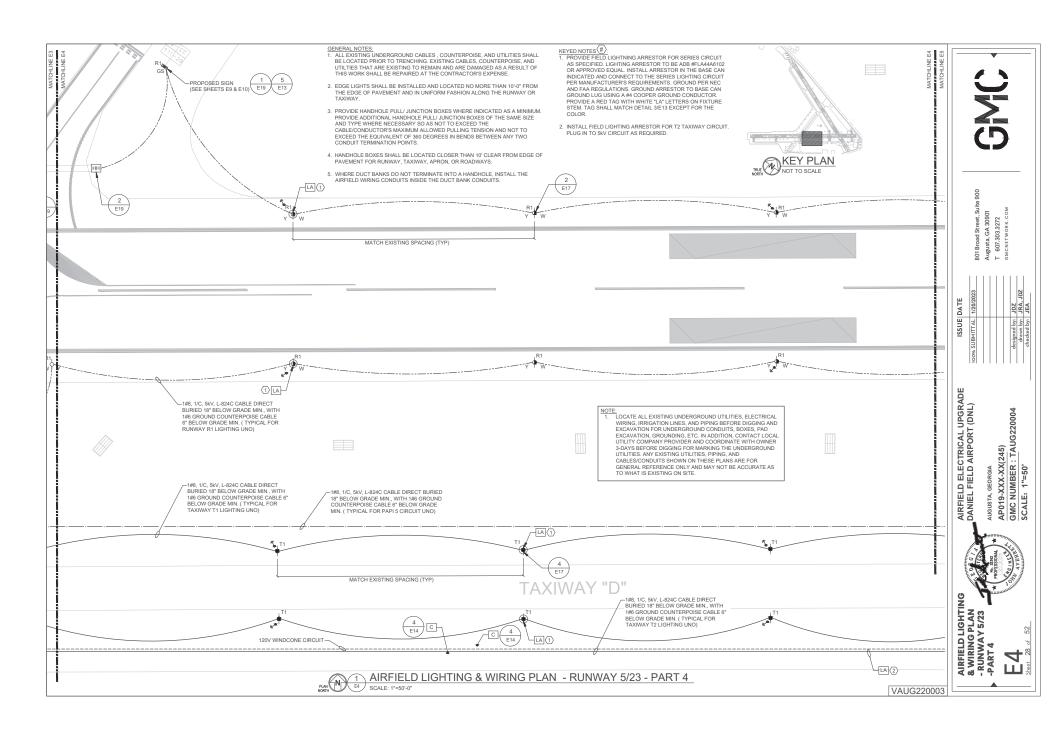


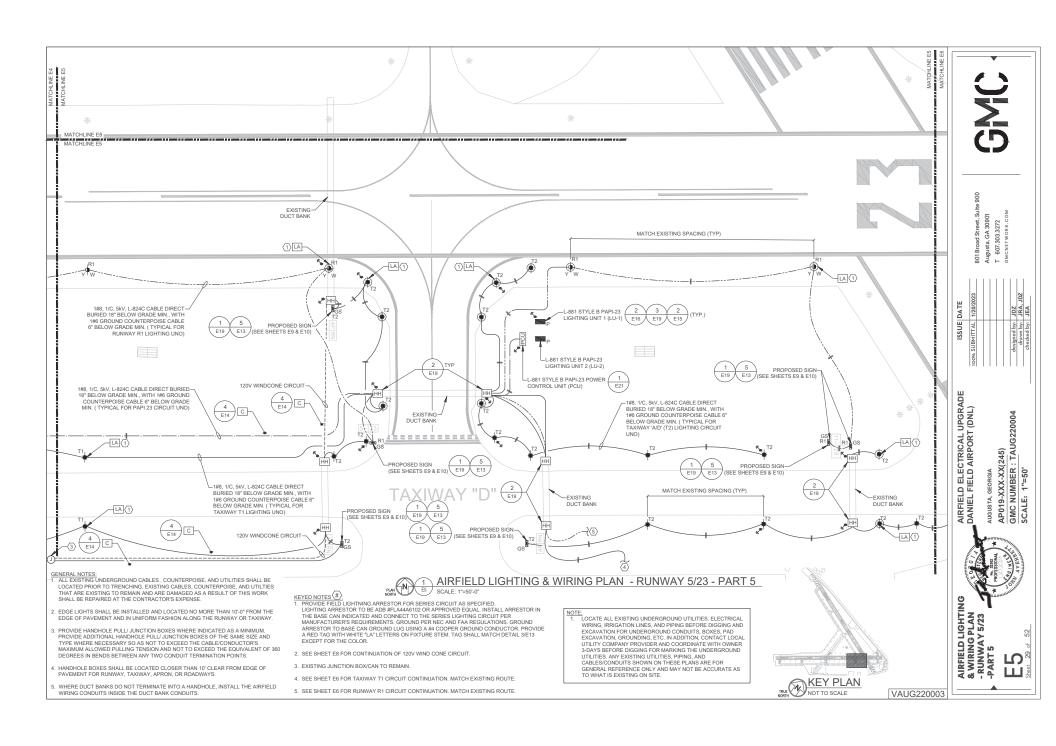


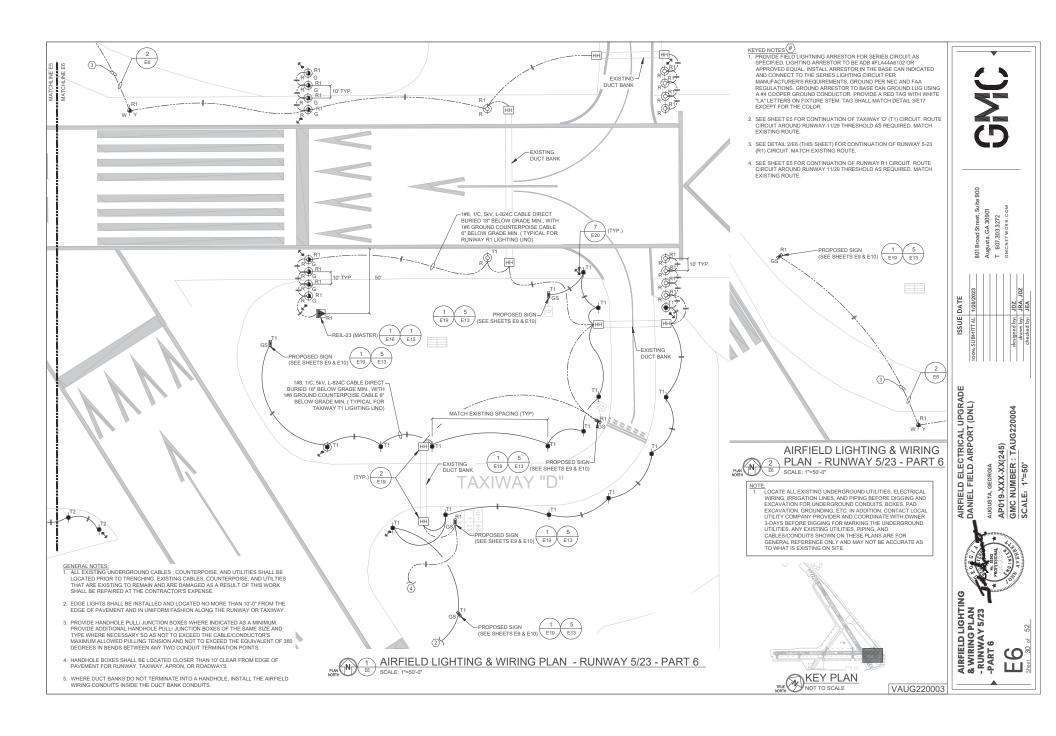


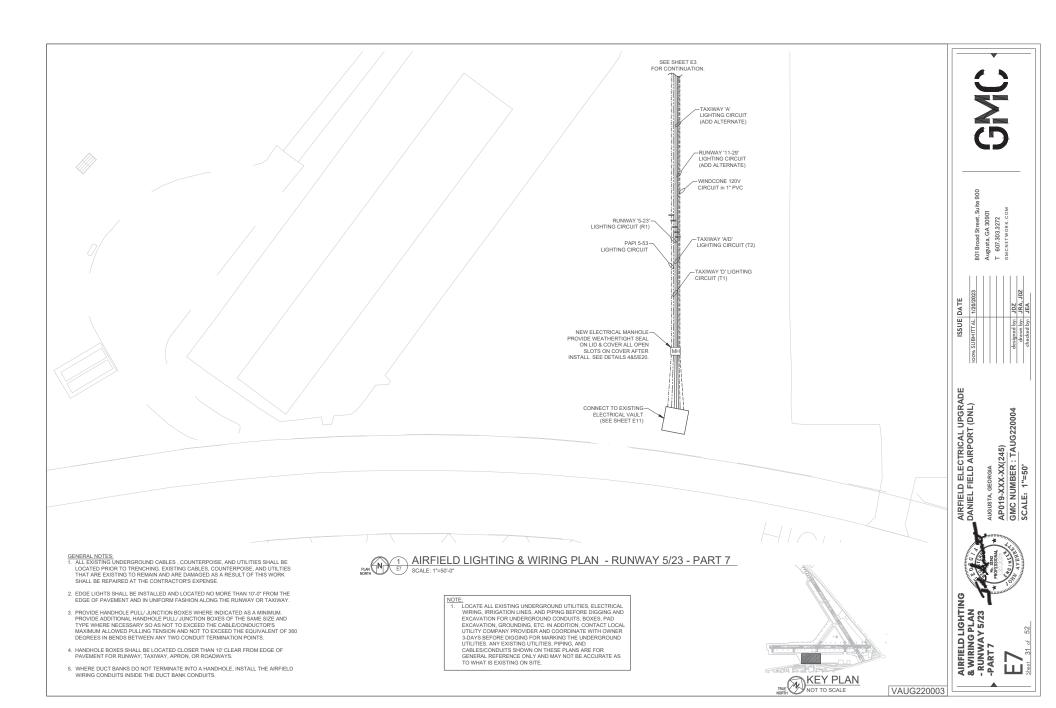


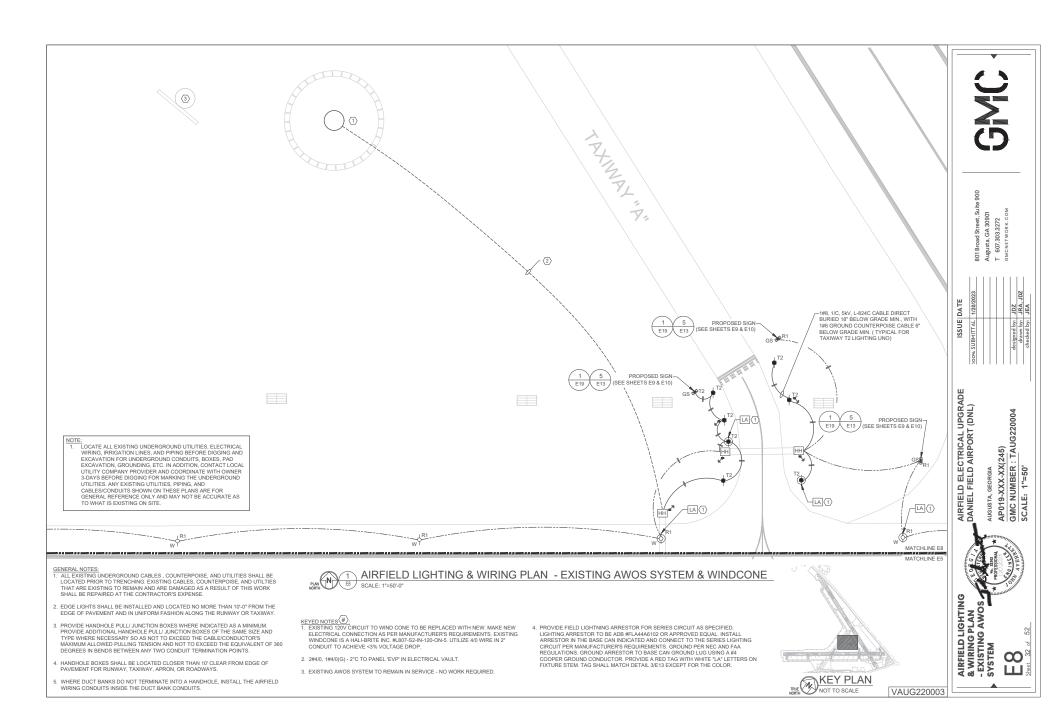


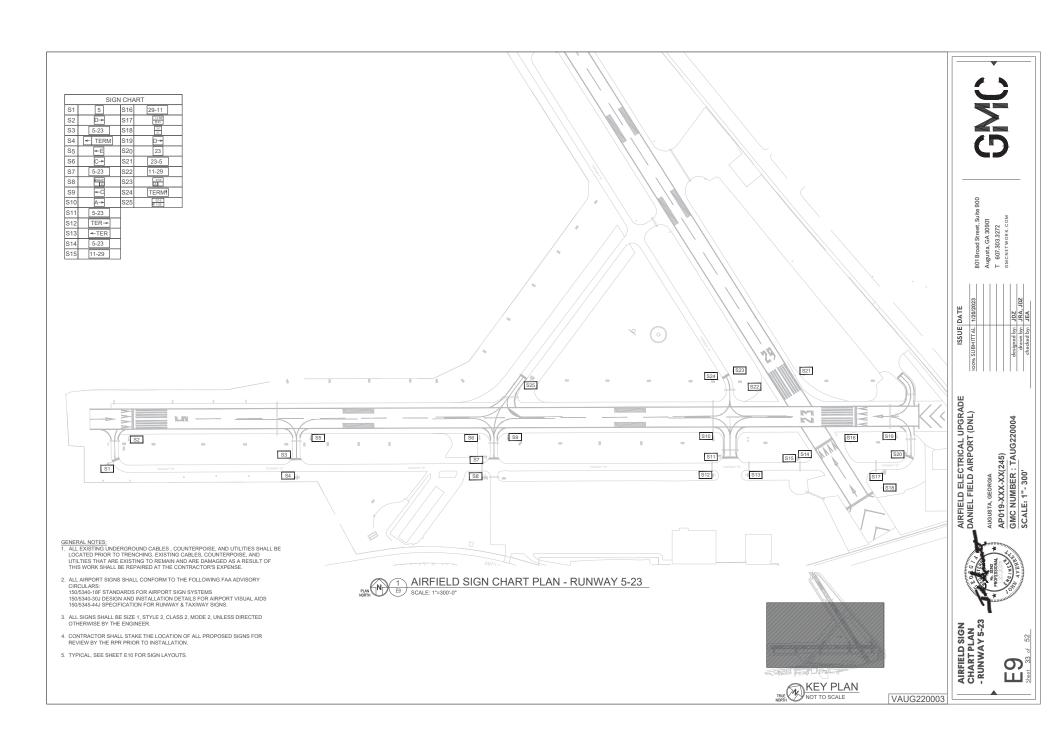


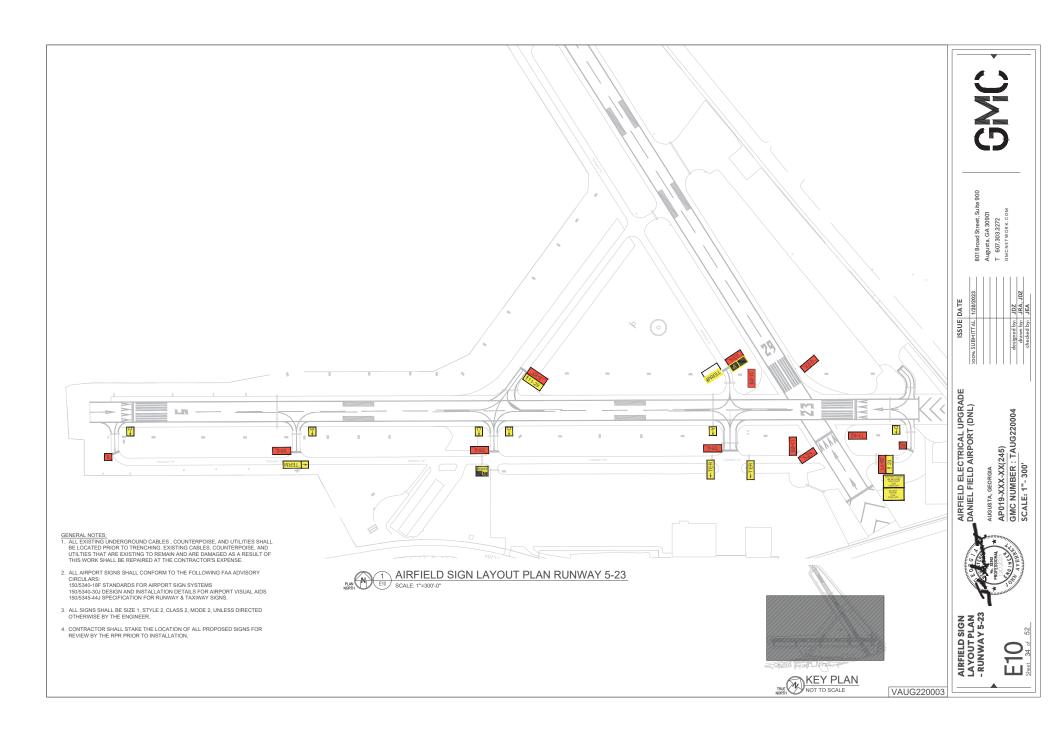


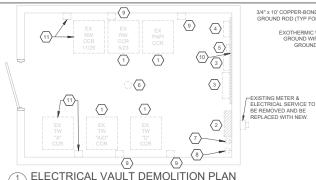












SCALE: 1/2"=1'-0"

CALE: 1/2"=1"-0"

DEMOLITION KEYED NOTES # :
1. EXISTING REGULATOR TO BE REPLACED WITH NEW, DISCONNECT AND REMOVE REGULATOR WITH ALL ASSOCIATED COMPONENTS AND TURN IT OVER TO OWNER.
CONTRACTOR TO REPLACE ALL UPSTREAM WIRING BACK TO PANEL 'EVP' WITH NEW. DISCONNECT FEEDER WIRING & CONDUIT AND TURN IT OVER TO OWNER DISCONNECT FEEDER WIRING & CONDOIT AND TOWN IT OVER IT OWNER.

CONTRACTOR HAS OPTION TO REUSE EXISTING CONDUIT IF IT MEETS DESIGN

INTENT AND IS CODE COMPLIANT WITH THE NEC.

2. EXISTING 2001/201 (PH 2004MP PANELBOARD TO BE REPLACED WITH NEW, SEE NEW

PANEL SCHEDULE 'EVP. COORDINATE WITH OWNER ON SCHEDULING DOWN TIME OF

AIRFIELD LIGHTING SYSTEM DURING CONSTRUCTION.

3. EXISTING LIGHTING CONTROL JUNCTION AND CONTROL BOX TO BE DEMOLISHED.

AND BE REPLACED WITH NEW

- EXISTING RADIO CONTROLLER TO BE REPLACED WITH NEW.
 EXISTING TIMECLOCK TO BE DEMOLISHED AND BE REPLACED WITH NEW.
- 6. EXISTING LIGHT FIXTURE TO BE DEMOLISHED. REMOVE ALL ASSOCIATED WIRING,
- CONDUIT, SWITCHES, AND BOXES.

 7. EXISTING RECEPTACLE TO BE DEMOLISHED, REMOVE ALL ASSOCIATED WIRING, CONDUIT, & BOXES.
- 8. EXISTING 30AMP 120V OUTLET TO REMAIN AND BE RECONNECTED TO NEW PANEL
- 9. EXISTING ADB SAFETY CUTOUT TO BE DEMOLISHED, REMOVE ALL ASSOCIATED WIRING & CONDUIT
- 10. EXISTING BACKBOARD FOR CONTROLS TO REMAIN
- 11.IF 11/29 ALTERNATE IS NOT ACCEPTED, EXISTING REGULATOR & SAFETY CUTOUT TO REMAIN IN SERVICE CONNECT NEW INCOMING POWER (WIRING & CONDUIT) TO NEW PANEL 'EVP' IN VAULT AS REQUIRED.

PANELBOARD EVP SCHEDULE

LOCATION ELECTRICAL VAULT			MAIN: 400A MCB				SERVICE ENTRANCE RATED				
VOL	TAGE 120/240		SYSTEM	1: 1ø, 3	WIRE						
TRIM	SURFACE		INTERRI	JPTING	RATING	3: 22k A	IC				
CKT	LOAD	BF	REAKER	PHASE (KW)		PHASE (KW)		BREAK	ER	LOAD	CKT
#	DESCRIPTION	P	TRIP	Α	В	Α	В	TRIP	P	DESCRIPTION	#
1	RUNWAY 5/23 CCR (R1)		125	7.50		3.75		60	2	RUNWAY 11/29 CCR (ALT)	2
3					7.50		3.75	100			4
5	TAXIWAY A CCR (ALT) (T3)	2	60	3.75	3.75	5.00	5.00	80	2	TAXIWAY D CCR (T1)	6
9	WIND CONE	1	20	0.10	5.75	2.00	5.00	30 2		T41/4/11/4 D 00D /T01	10
11	LIGHTING CONTROL CAB	1	20		0.20		2.00	30	2	TAXIWAY A/D CCR (T2)	12
13	GATE*	1	20	1.50		0.50		20	1	VAULT FAN	14
15	RADIO CONTROLLER	1	20		0.50		0.50	20	1	VAULT LIGHTING	16
17	SPARE	1	20			1.00		20	1	VAULT RECEPTACLES	18
19	SPARE	1	20				2.00	30	2	PAPI 5-23	20
21	SPARE	1	20			2.00		30			22
23	SPARE	1	20				2.20	30 2		RV OUTLET	24
25	AVAILABLE BUSSED SPACE				1 3	2.20				RV OUTLET	26
27	AVAILABLE BUSSED SPACE	П							П	AVAILABLE BUSSED SPACE	28
29	AVAILABLE BUSSED SPACE	П							П	AVAILABLE BUSSED SPACE	30
31	AVAILABLE BUSSED SPACE	П							П	AVAILABLE BUSSED SPACE	32
33	AVAILABLE BUSSED SPACE	П							П	AVAILABLE BUSSED SPACE	34
35	AVAILABLE BUSSED SPACE	П							П	AVAILABLE BUSSED SPACE	36
37	AVAILABLE BUSSED SPACE	П								AVAILABLE BUSSED SPACE	38
39	SPD	2	30		0.10					AVAILABLE BUSSED SPACE	40
41	370		50	0.10					П	AVAILABLE BUSSED SPACE	42

BOLD, * TEXT INDICATES EXISTING LOAD TO BE RECONNECTED TO NEW PANEL

12.9 12.0 16.5 15.5

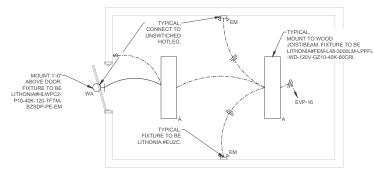
TOTAL (kVA) ØA 29.3 ØB 27.4

TOTAL CONNECTED LOAD (kVA) 56.7 TOTAL LOAD (AMPS) 236.3

PROVIDE A BUS MOUNTED SPD. SQUARE D. EATON, OR APPROVED EQUAL, MATCH MANUFACTURER OF SUPPLIED PANEL

3/4" x 10' COPPER-BONDED-GROUND ROD (TYP FOR 4) EXOTHERMIC WELD GROUND WIRE TO GROUND ROD CCF CCR 11/29 5/23 ADD AL1 (R1) (24) $\langle 2 \rangle$ (3) (23) T3 "A" CCR T2 "A/D" (ADD ALT -#1/0 AWG BARE COPPER GROUND WIRE AT 24" BELOW (15) GRADE (TYP.)

ELECTRICAL VAULT PLAN



VAULT LIGHTING PLAN SCALE: 1/2"=1'-0"

IF PRICE OR QUOTE FROM GEORGIA POWER IS NOT RECEIVED SUCCESSEULLY PRIOR TO THE BID. CONTRACTOR SHALL PROVIDE AN ALLOWANCE IN BASE BID OF \$15,000.00 TO COVER ANY ASSOCIATED UTILITY COSTS FOR NEW ELECTRICAL SERVICE TO THE VALUET BUILDING

- 22. NEW 7.5KW 3-STEP REGULATOR FOR TAXIWAY T3 CIRCUIT UNDER ALTERNATE. DIMENSIONS OF REGULATOR ARE BASED ON MANUFACTURER. CONTRACTOR SHALL ADJUST LAYOUT DUE TO REGULATORS OF DIFFERENT SIZES. ROUTE TO NEW L-821 CONTROL PANEL AS REQUIRED. THYRISTOR OR SCR CCR SHALL HAVE TAP SETTING OF 50%
- 23.NEW 4KW 3-STEP REGULATOR FOR TAXIWAY T2 CIRCUIT UNDER BASE BID. DIMENSIONS OF REGULATOR ARE BASED ON MANUFACTURER. CONTRACTOR SHALL ADJUST LAYOUT DUE TO REGULATORS OF DIFFERENT SIZES. ROUTE TO NEW L-821 CONTROL PANEL AS REQUIRED. THYRISTOR OR SCR. CCR SHALL HAVE TAP SETTING OF 70%
- 24. NEW 7.5KW 3-STEP REGULATOR FOR RUNWAY 11/29 (R2) CIRCUIT LINDER ALTERNATE DIMENSIONS OF REGULATOR ARE BASED ON MANUFACTURER. CONTRACTOR SHALL
 ADJUST LAYOUT DUE TO REGULATORS OF DIFFERENT SIZES. ROLITE TO NEW L-821 CONTROL PANEL AS REQUIRED THYRISTOR OR SCR CCR SHALL HAVE TAP SETTING OF 70%.
- 25 PROVIDE 3#600 MCM 3-1/2"C FROM NEW PANEL 'EVE PROVIDE 3#000 MICM - 3-1/2 C FROM NEW PANEL EVP THROUGH METER AND STUBBED UP ABOVE THE ROOF FOR CONNECTION BY UTILITY COMPANY. PROVIDE WEATHER-HEAD AND SUFFICIENT SLACK AS NEEDED. CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION AND FEES ASSOCIATED WITH THE NEW ELECTRICAL SERVICE.
 COORDINATE WITH LOCAL GEORGIA POWER COMPANY PRIOR TO BID

KEYED NOTES (#)

- NEW 10KW 3-STEP REGULATOR FOR TAXIWAY T1 CIRCUIT DIMENSIONS OF REGULATOR ARE BASED ON
 MANUFACTURER. CONTRACTOR SHALL ADJUST LAYOUT DUE TO REGULATORS OF DIFFERENT SIZES. ROUTE TO NEW L-821 CONTROL PANEL AS REQUIRED. THYRISTOR OR SCR CCR SHALL HAVE TAP SETTING OF 60%.
- 2 NEW 15KW 3-STEP REGULATOR FOR RUNWAY 5/23 (R1) CIRCUIT. DIMENSIONS OF REGULATOR ARE BASED ON MANUFACTURER CONTRACTOR SHALL ADJUST LAYOUT DUE TO REGULATORS OF DIFFERENT SIZES. ROUTE TO NEW L-821 CONTROL PANEL AS REQUIRED. THYRISTOR OR SCR CCR SHALL HAVE TAP SETTING OF 60%.
- 3. NEW 4KW 3-STEP REGULATOR FOR PAPI 5-23 CIRCUIT. DIMENSIONS OF REGULATOR ARE BASED ON MANUFACTURER, CONTRACTOR SHALL ADJUST LAYOUT DUE TO REGULATORS OF DIFFERENT SIZES. THYRISTOR OR SCR CCR SHALL HAVE TAP SETTING OF 50%.
- 4 NEW L-821 LIGHTING RELAY CARINET PROVIDE RELAYS AND SWITCHES AS REQUIRED FOR AIRPORT LIGHTING CONTROL SYSTEM AS INDICATED ON DETAIL 2/E12.
- TYPICAL, PROVIDE HINGED ENCLOSURE WITH TWO CUT-OUTS, EQUAL TO ADB ALCS OR APPROVED EQUAL
- NEW PANELBOARD 'EVP'. SEE PANEL SCHEDULE FOR DETAILS, CONTRACTOR TO PROVIDE ALL NEW BREAKERS AS SHOWN IN PANEL SCHEDULE 'EVP'. PANEL TO BE SOLIARE D NOOD OR APPROVED FOLIAL
- 7 NEW L-854 RADIO CONTROLLER VERIEY FINAL LOCATION NEW L-954 RADIO CONTROLLER. VERIFY FINAL LOCAL AND CONTROLS WITH OWNER PRIOR TO INSTALL. PROVIDE RELAYS AND SWITCHES AS REQUIRED FOR AIRPORT LIGHTING CONTROL SYSTEM. SEE WIRING DIAGRAM 2/F12
- 8. 2#8. 5kV, L-824C CABLES IN 2" FLEXIBLE METAL CONDUIT
- 9. #1/0 AWG GROUND LOOP AROUND VAULT. BOND REGULATORS, CONTACTORS, AND RELAY ENCLOSURES TO GROUND WITH #4 AWG. EXTEND #1/0 AWG GROUND AND CONNECT TO NEW GROUND LOOP.
- 10.NEW PHOTOCELL, EXTEND 3#12, 1#12(G), 1"C AND CONNECT TO RELAY PANEL. SEE DETAILS 2/E12 & 2/E13.
- 11.PROVIDE 2#8, 5KV L-324C CABLES (TAXIWAY T1) AND 2#8, 5KV L-824C CABLES (TAXIWAY T2) IN 4-1/2°C TO NEW MANHOLE. SEE PLAN SHEET E7 FOR LOCATION

12 NOT USED

- 13. WALL MOUNTED EXHAUST FAN TO MATCH EXISTING WITH AUTOMATIC SHUTTER . MOUNT AT EXISTING LOCATION ABOVE ENTRY DOOR
- 14.EXTEND CONDUITS AND COUNTERPOISE CABLE TO NEW MANHOLE IN COMMON TRENCH, COUNTERPOISE CABLE FROM SEPARATE TRENCHES SHALL BE BONDED
 TOGETHER THROUGH AN EXOTHERMIC WELD WHERE TRENCHES MEET. A SINGLE COUNTERPOISE CABLE SHALL PROCEED FROM THERE PROVIDE SEALING COMPOUND ON ALL CONDUITS BETWEEN MANHOLE AND CUT OUT ENCLOSURES.
- 15. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF TRENCHING. ANY DAMAGED EXISTING UTILITY LINES WILL BE REPAIR AT THE CONTRACTOR'S EXPENSE.
- 16. MAKE ELECTRICAL CONNECTION TO NEW REGULATOR AS PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR IS TO BE SURE A ON SITE PRE-COMMISSIONING MEETING WITH THE MANUFACTURER TO ENSURE INSTALLATIONS OF ALL SYSTEMS ARE FULLY FUNCTIONAL AND MEET DESIGN INTENT SHOWN IS COMPLETED PRIOR TO COMMENCEMENT OF WORK.
- 17.EXTEND #2 AWG GROUND IN 1"C FROM PANEL 'EVP' AND CONNECT TO NEW GROUND LOOP.
- 18 IF RUNWAY 11-29 IS ACCEPTED. PROVIDE HINGED ENCLOSURE WITH ONE CUT-OUT, EQUAL TO ADB ALCS OF APPROVED FOUAL
- 19.PROVIDE 2#8, 5kV, L-824C CABLES (RUNWAY 5-23 (R1)) AND 2#8, 5kV, L-824C CABLES (PAPI 5-23) IN 4 1/2"C TO NEW MANHOLE SEE PLAN SHEET ET FOR LOCATION
- 20.NEW TIMECLOCK. CONNECT TO LIGHTING RELAY CABINET AS REQUIRED. COORDINATE WITH OWNER PRIOR TO INSTALL. SEE WIRING DIAGRAM 2/E12.
- 21.IF RUNWAY 11-29 ALTERNATE IS ACCEPTED. PROVIDE 2# 5KV L-324C CABLES (RUNWAY R1) AND 2#8. 5KV L-824C CABLES (TAXIWAY T3) IN 4-1/2"C TO NEW MANHOLE. SEE PLAN SHEET E7 FOR LOCATION.

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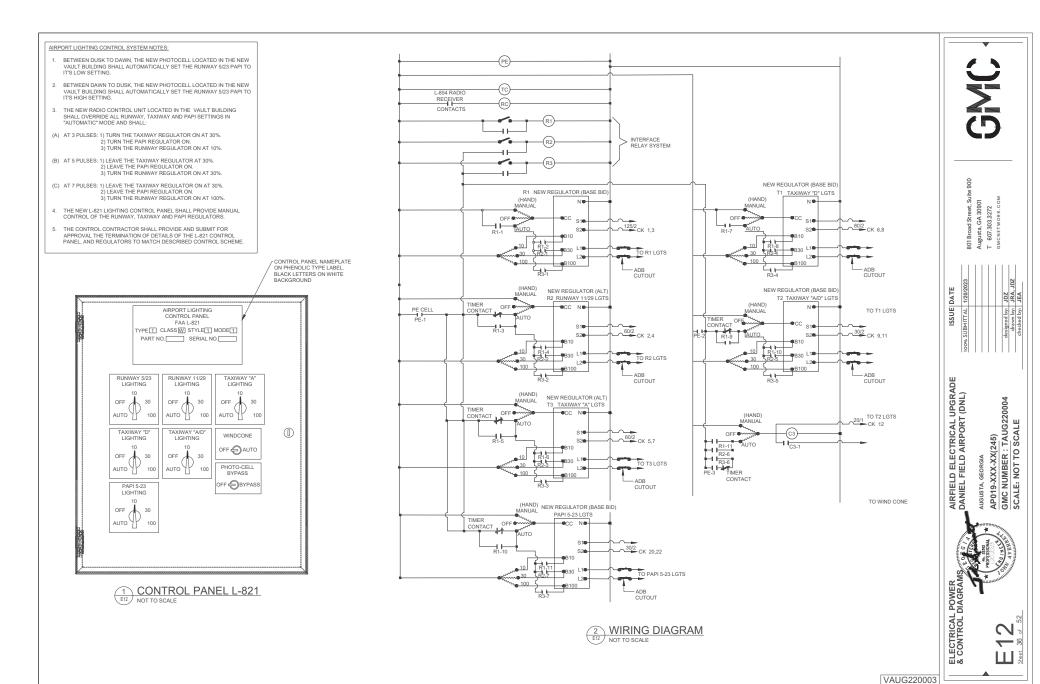
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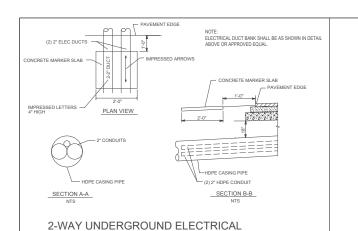
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GMC NUMBER: TAUG220004
SCALE: NOT TO SCALE



ELECTRICAL PLAN

VAUG220003

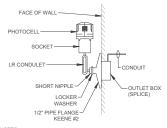




DUCT & CONCRETE DUCT MARKER SLAB

BODY MOLD

POURING SPOUT -

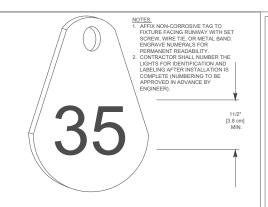


NOTES:

1. PAINT CONDUIT NIPPLE, SOCKET, AND PIPE FLANGE WITH TWO COATS OF ENAMEL.

- 2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
- 3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS PHOTOCELE TO BE MOUNTED FACING NOR IT FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.

NSTALLATION OF PHOTO CELL



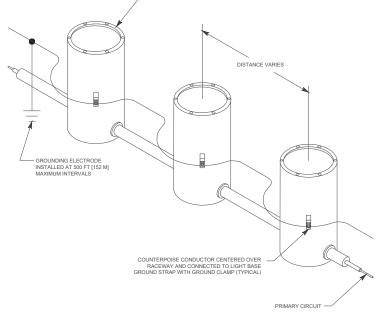
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AIRFIELD ELECTRICAL UPGRADE DANIEL FIELD AIRPORT (DNL) AP019-XXX-XX(245) GMC NUMBER: TAUG220004 SCALE: NOT TO SCALE

NOTE:
1. CONNECTION OF CONDUCTORS MUST BE MADE
BY USING CRIMP CONNECTORS AND A CRIMPING
TOOL APPROVED BY THE CONNECTOR/LUG CABLE JACKET REMOVED MANUFACTURER. THE TOOL MUST PRODUCE A COMPLETE CRIMP BEFORE IT CAN BE REMOVED. THE CRIMPING TOOL USED MUST BE LISTED BY THE L-823 MANUFACTURER. MAKE THE NUMBER TYPE OF CRIMPS PER THE KIT MANUFACTURER INSTRUCTIONS. COMPRESSION TYPE SLEEVE SEAL ENDS OF MOLD WITH TAPE PROVIDED IN SPLICE KIT CONNECTOR, CRIMP WITH TOOL CABLE SPLICE - TYPE A L-867 STEEL COVER COVER BOLTS -FRANCIBLE COLIPLING L-858-SIGN COLOR CODED TAPE FOR WIRE -PROVIDE 3 FT [0.9 M] MIN. OF SLACK IDENTIFICATION LOCATED WITHIN IN EACH PRIMARY CABLE 6" [15 CM] OF L-823 CONNECTOR FINISHED GRADE SLOPE TO DRAIN AWAY FROM SIGN CONCRETE BACKFILL, 4" [10 CM] MIN. I/C #8 5KV 1 -824 TYPE C CABLE 18' [5.4 M] BELOW GRADE 1-830 TRANSFORMER SIZE AS REQUIRED BRICK BY SIGN MANUFACTURER L-823 CONNECTORS 3/4" [19 MM] DIA. WEEP HOLE 5 SIGN - SINGLE PEDESTAL
NOT TO SCALE

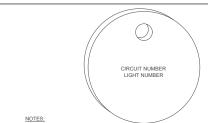
L-867 BASE ON 6" [15 CM] MIN. SAND BACKELL



TYPICAL LIGHT TAG DETAIL

LIGHT BASE (TYPICAL)

6 EQUIPOTENTIAL COUNTERPOISE INSTALLATION MANUAL POR NOT TO SCALE

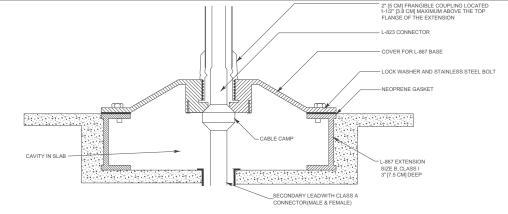


1. ALL CABLE ENTERING OR LEAVING A JUNCTION BOX SHALL BE IDENTIFIED WITH AN INDIVIDUAL IDENTIFICATION TAG INDICATING EACH LIGHTING OR POWER CIRCUIT. WHERE A SPLICE IS IN THE BOX, IDENTIFY THE CABLE ON BOTH SIDES OF THE SPLICE

2. PAYMENT FOR CABLE AND FIXTURE TAGS AND CABLE SPLICES SHALL BE INCLUDED IN THE PRICE OF THE PARTICULAR FIXTURE, JUNCTION BOX OR CABLE RUN AND NO SEPARATE PAY ITEM INCLUDED FOR THESE ITEMS.

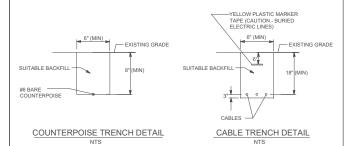
3. AN IDENTIFYING NUMBER SHALL BE ASSIGNED TO EACH LIGHT FIXTURE IN ACCORDANCE WITH THE 3. ARVINENT HE PLACING OF THESE NUMBERS SHALL BE ACCOMPLISHED BY USE OF 1-12" DIAMETER NON-FERROLS METATA TAGS, WITH THE NUMBER APPROXIMATELY 1/4" IN HEIGHT, STAMPED IN, AND FASTERION DI THECONDUTT INSER MITH A JOS? STAINLESS STEEL AIRCRAFT CABLE AND GRIPPLE TO THEFIXTURE SO EACH FACES THE RUNWAY.

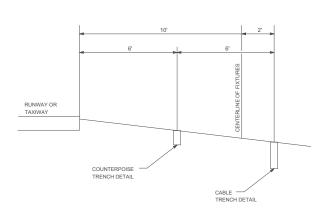
1 SERIES CABLE TAG DETAIL NOT TO SCALE



2 TYPICAL DETAIL FOR TAXIWAY HOLD & GUIDANCE SIGN

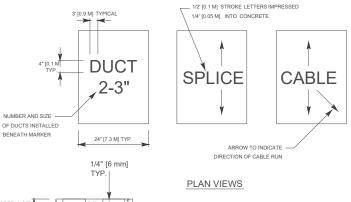
NOT TO SCALE





3 CABLE TRENCH DETAIL

NOT TO SCALE



- 1. PLACE MARKERS WHERE SHOWN ON PLANS AS DISCUSSED IN APPENDIX E, PARAGRAPH E.1, ELECTRICAL NOTES.
- 2. COST OF CONCRETE MARKERS IS INCIDENTAL TO THE ASSOCIATED ITEMS OF DUCT OR CABLE.
- 3. EDGE EXPOSED CONCRETE WITH A 1/4" [6 mm] RADIUS TOOL.

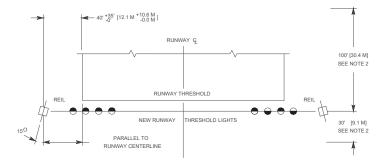
CONCRETE SECTION VIEW

- 4. EMPLOY THE FOLLOWING METHODS WHERE ADDITIONAL SPACE TO FIT THE LEGEND IS REQUIRED:
 - A. REDUCE LETTER SIZE TO 3" HIGH, 2" WIDE [76 mm HIGH, 51 mm WIDE]
 - B. INCREASE THE MARKER SIZE TO 30" X 30" [0.9 M X 0.9 M] MAX.
 - C. PROVIDE ADDITIONAL MARKERS PLACED SIDE BY SIDE.

4 CABLE AND DUCT MARKER DETAIL

NOT TO SCALE



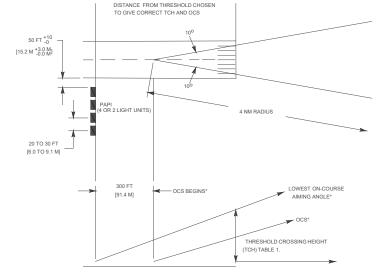


- 1 THE OPTIMUM LOCATION FOR EACH LIGHT UNIT IS IN LINE WITH THE RUNWAY THRESHOLD LIGHTS 40 FT [12.1 M] LATERALLY FROM THE RUNWAY EDGE.
- 2. A 100 FT [30.4 M] UPWIND AND A 30 FT [9.1 M] DOWNWIND LONGITUDINAL TOLERANCE IS PERMITTED FROM THE RUNWAY THRESHOLD LIGHTS IN LOCATING THE LIGHT UNITS.
- SPACE THE LIGHT UNITS EQUALLY FROM THE RUNWAY CENTERLINE. WHEN ADJUSTMENTS ARE NECESSARY THE DIFFERENCE IN THE DISTANCE OF THE UNITS FROM THE RUNWAY CENTERLINE MUST NOT EXCEED 10 FT [3 M].
- THE BEAM CENTERLINE (AIMING ANGLE) OF EACH LIGHT UNIT IS AIMED 15 DEGREES OUTWARD FROM A LINE PARALLEL TO THE RUNWAY CENTERLINE AND INCLINED AT AN ANGLE 10 DEGREES ABOVE THE HORIZONTAL. IF ANGLE ADJUSTMENTS ARE NECESSARY, PROVIDE AN OPTICAL BAFFLE AND CHANGE THE ANGLE TO 10 DEGREES HORIZONTAL AND 20 DEGREES
- 5. LOCATE THE REIL EQUIPMENT A MINIMUM DISTANCE OF 40 FT [12.1 M] FROM OTHER RUNWAYS AND TAXIWAYS.
- 6. IF REILS ARE USED WITH VASI, INSTALL REILS 75 FT [22.8 M] FROM THE RUNWAY EDGE. WHEN INSTALLED WITH OTHER GLIDE SLOPES INDICATORS, INSTALL REILS 40 FT [12.1 M] FROM THE RUNWAY EDGE IF THERE ARE CONCERNS WITH JET BLAST AND WIND VORTICES. SEE FAA ORDER JO 6850.2 FOR ADDITIONAL INFORMATION.
- 7. BOTH REIL UNITS MUST BE AT THE SAME ELEVATION AND WITHIN 3 FT [0.9 M] OF THE HORIZONTAL PLANE THROUGH THE RUNWAY CENTERLINE.

SYMBOL:

STEADY BURNING LIGHT, RED

STEADY BURNING LIGHT, GREEN



PAPI OCS ANGLE = LOWEST ON-COURSE AIMING ANGLE - 1 DEGREE

- 1. THE VISUAL GLIDE PATH ANGLE IS THE CENTER OF THE ON-COURSE ZONE. AND IS A NORMAL
 - A. FOR NON-JET RUNWAYS, THE GLIDE PATH MAY BE RAISED TO 4 DEGREES MAXIMUM TO PROVIDE OBSTACLE CLEARANCE.
 - B. IF THE PAPI GLIDE PATH IS CHANGED TO A HIGHER ANGLE FROM THE NOMINAL 3 DEGREES, IT MUST BE COMMUNICATED IN A NOTICE TO AIRMAN (NOTAM) AND PUBLISHED IN THE AIRPORT FACILITY DIRECTORY.

2. PAPI OCS.

- A THE PAPI OCS PROVIDES THE PILOT WITH A MINIMUM APPROACH CLEARANCE
- B. THE PAPI MUST BE POSITIONED AND AIMED SO NO OBSTACLES PENETRATE ITS SURFACE.
 - (1) THE OCS BEGINS 300 FEET [90 M] IN FRONT OF THE PAPI SYSTEM.
 - (2) THE OCS IS PROJECTED INTO THE APPROACH ZONE ONE DEGREE LESS THAN AIMING ANGLE OF THE THIRD LIGHT UNIT FROM THE RUNWAY FOR AN L-880 SYSTEM, OR THE OUTSIDE LIGHT UNIT FOR AN L-881 SYSTEM.

2 PAPI OBSTACLE CLEARANCE SURFACE

NOT TO SCALE

801 Broad Street, Suit Augusta, GA 30901 T 607.303.3272

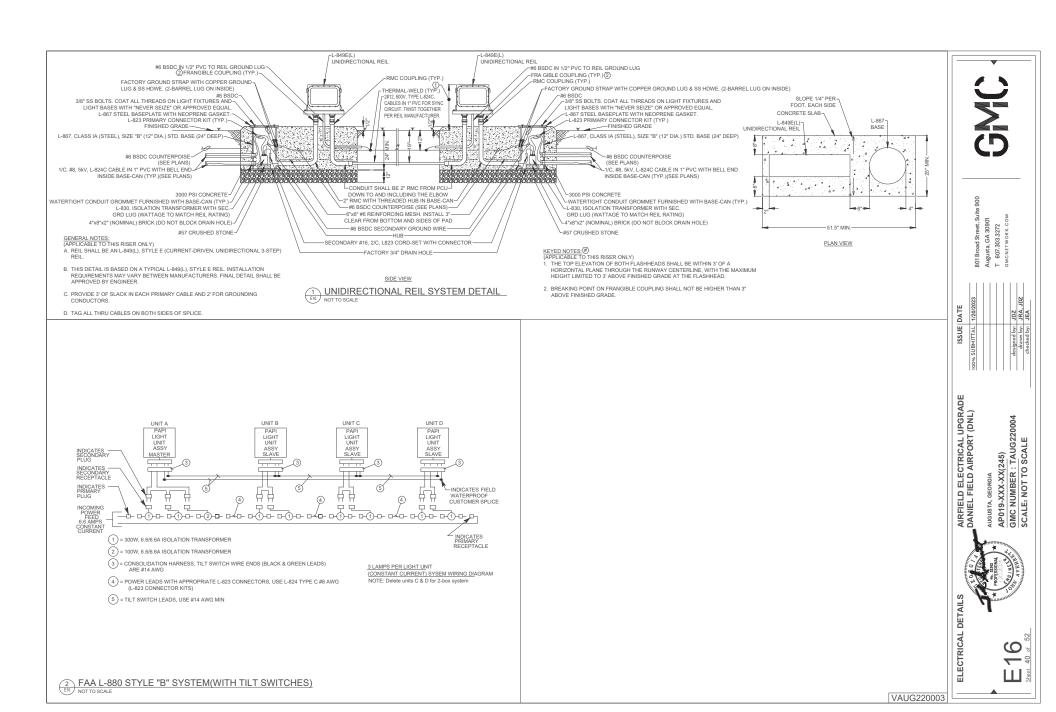
AIRFIELD ELECTRICAL UPGRADE DANIEL FIELD AIRPORT (DNL)

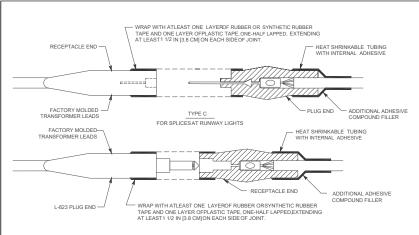
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AP019-XXX-XX(245) GMC NUMBER : TAUG220004 SCALE: NOT TO SCALE



TYPICAL LAYOUT FOR REIL INSTALLATION

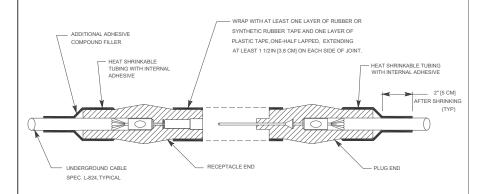




NOTES:

- 1. SEE LIGHTING LAYOUT SHEET(S) FOR SPLICE TYPE
- 2. PROPERLY MATCH THE INSIDE DIAMETER OF CONNECTOR TO THE OUTSIDE DIAMETER OF CABLE.
- 3. CONNECTION OF CONDUCTORS MUST BE MADE BY USING CRIMP CONNECTORS AND A CRIMPING TOOL APPROVED BY THE CONNECTOR/LUG MANUFACTURER. THE TOOL MUST PRODUCE A COMPLETE CRIMP BEFORE IT CAN BE REMOVED. THE CRIMPING TOOL USED MUST BE LISTED BY THE LASS KIT MANUFACTURER. MAKE THE NUMBER AND TYPE OF CRIMPS PER THE KIT MANUFACTURERS INSTRUCTIONS.



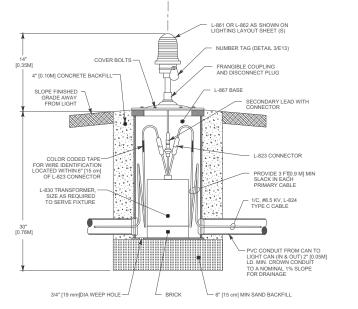


FOR SPLICES FOR LISE AT JUNCTION OF CONNECTION OF CONDUCTORS MUST BE MADE BY USING CRIMP CONNECTORS AND A CRIMPING TOOL APPROVED BY THE CONNECTOR/LUG MANUFACTURER. THE TOOL MUST PRODUCE A COMPLETE CRIMP BEFORE IT CAN BE REMOVED. THE CRIMPING TOOL USED MUST BE LISTED BY THE LASS KIT MANUFACTURER. MAKE THE NUMBER AND TYPE OF CRIMPS PER THE KIT

MANUFACTURER'S INSTRUCTIONS. HOMERUN WITH LOOP CIRCUIT

NOTE: STANDARD HEIGHT OF THE L-861/L-862 LIGHT FIXTURE IS 14". I0.35MI SEE FIGURE A-108 FOR HEIGHT ADJUSTMENTS IN HIGH SNOW AREAS. L-861 OR L-862 AS SHOWN ON LIGHTING LAYOUT SHEET(S) FINISHED GRADE NUMBER TAG (DETAIL 3/E13) L-830 TRANSFORMERT SIZE AS REQUIRED TO SEE NOTE SERVE THE FIXTURE LOCATED 12" [.30M] OUTBOARD OF LIGHT, FRANGIBLE COUPLING AND DISCONNECT PLUG 10"[0.25M] MINIMUM SECONDARY LEAD WITH CONNECTOR 12" [0.30M] -ANGLE IRON STAKE 30" [0.76M] 18" [0.45M] MINIMUM L-823 CONNECTORS [0.76M] RECOMMENDED SIZE 6" SQUARE X 12" HIGH [15M SQUARE X 0.3M HIGH] - 1/C 5KV ENCASE TRANSFORMER, CONNECTORS
AND CABLE SLACK IN SAND PROVIDE 3' [0.9M] OF
OF SLACK IN EACH PRIMARY CABLE FOR CONNECTION L-824 CABLE
COLOR CODED TAPE FOR WIRE IDENTIFICATION LOCATED WITHIN 6" [0.15M] OF L-823 CONNECTOR

MEDIUM/HIGH INTENSITY SERIES CIRCUIT LIGHT - STAKE MOUNTED



4 MEDIUM/HIGH INTENSITY SERIES CIRCUIT LIGHT - BASE MOUNTED NOT TO SCALE

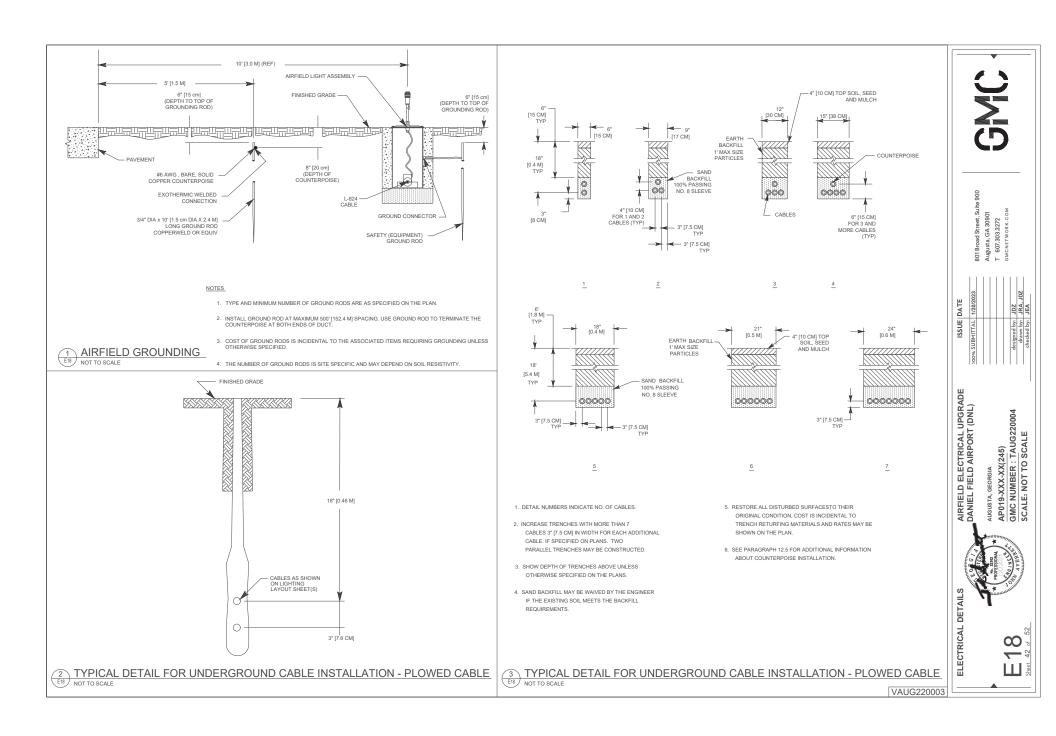
ELECTRICAL DETAILS

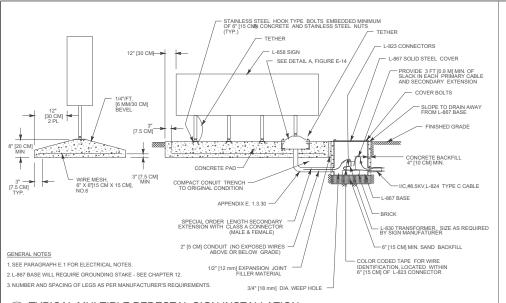
801 Broad Street, Sui Augusta, GA 30901 T 607.303.3272 DATE ISSUE AIRFIELD ELECTRICAL UPGRADE DANIEL FIELD AIRPORT (DNL) AP019-XXX-XX(245) GMC NUMBER: TAUG220004 SCALE: NOT TO SCALE

VIEW IS PARALLEL TO RUNWAY EDGE

VAUG220003

3 TYPE 'B' NOT TO SCALE





SLOPE FINISHED GRADE
AWAY FROM BOX FOR MIN.
S-FOOT DIAMETER AROUND
BOX

COMPACT SOIL (TYP)

GRAVEL BASE

HANDHOLE BOX SHALL BE 17' W X 30" L X 18" D, TIER
15, EQUAL, TO QUAZITE PG STYLE OR APPROVED
EQUAL, PROVIDE "ELECTRIC" NAMEPLATE ON COVER.

INSTALL CONDUIT BUSHINGS PRIOR TO PULLING WIRE.

SCHEDULE 40 PVC CONDUIT
(REFER TO PLANS FOR
CONDUIT & WIRE SIZES).

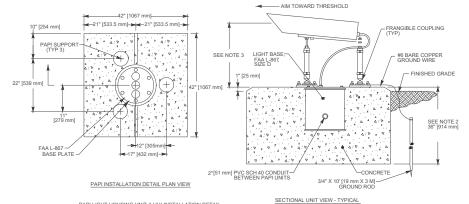
GENERAL NOTES:

- A. INSTALL BOX PER THE MANUFACTURER'S INSTRUCTIONS. AS FOLLOWS:
 - PREPARE THE EXCAVATION APPROXIMATELY 12-INCHES DEEPER THAN THE DEPTH OF THE BOX, THEN ADD 12-INCHES OF GRAVEL OR CRUSHED ROCK FOR DRAINAGE.
 - PLACE BOX IN EXCAVATION WITH COVER FLUSH WITH FINISHED GRADE AND LEVEL.
 - c. FILL AND COMPACT SOIL IN THE AREA OF EXCAVATION TO THE LIP OF BOX. SLOPE GRADE AWAY FROM BOX. 5-FOOT DIAMETER AROUND THE PERIMETER OF THE BOX TO MINIMZE THE ENTRY OF DIRTISEDIMENT.

2 ELECTRICAL HANDHOLE BOX IN EARTH DETAIL

PROPERTY OF THE PRO

1 TYPICAL MULTIPLE PEDESTAL SIGN INSTALLATION



PAPI LIGHT HOUSING UNIT (LHU) INSTALLATION DETAIL

NOTES:

- 1. DIMENSIONS SHOWN ARE TYPICAL AND MAY NOT APPLY TO ALL PAPI MANUFACTURERS. OBTAIN AND CONFIRM DIMENSIONS FROM MANUFACTURER PRIOR TO INSTALLATION.
- $2.\ \mathsf{DEPTH}\ \mathsf{OF}\ \mathsf{THE}\ \mathsf{FOUNDATION}\ \mathsf{ARE}\ \mathsf{MIN}.\ 36"\ (914\mathsf{mm})\ \mathsf{OR}\ 12"\ (305\mathsf{mm})\ \mathsf{BELOW}\ \mathsf{FROST}\ \mathsf{LINE}\ \mathsf{WHICHEVER}\ \mathsf{IS}\ \mathsf{GREATER}.$
- 3. AIMING ANGLE AND LOCATION OR UNITS ARE AS INDICATED ON CONTRACT DOCUMENTS.
- 4. LOCATION ON L-867 LIGHT BASE MAY BE BEHIND UNIT AS AN TERNATE LOCATION TO ALLOW EASIER ACCESS TO TRANSFORMERS OR WIRE SPLICES.

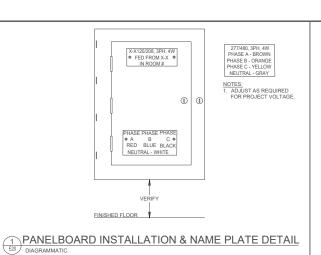
PAPI LIGHTING HOUSE UNIT (LHU) INSTALLATION DETAIL

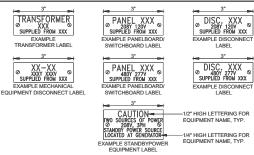
NOT TO SCALE

AIRPIELD ELECTRICAL UPGRADE

ANOUNT, GOOG OF THE CONTROL OF THE CO

| ST (DNL) | 1000% SUBMITTAL | 1720/2023 | 801 Broad Street, Suit | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023 | 1720/2023





NOTES:

1. ENGRAVED PLASTIC TAG WITH WHITE LETTERS ON BLACK BACKGROUND (RED BACKGROUND FOR EMERGENCY EQUIPMENT). TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS)

2. MINIMUM EQUIPMENT LABEL SIZE MUST BE LARGE ENOUGH TO ACCOMMODATE ALL TEXT.

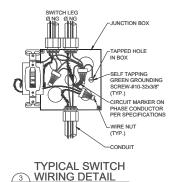
FI FCTRICAL

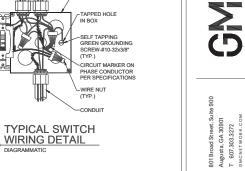
TOP PLAN VIEW

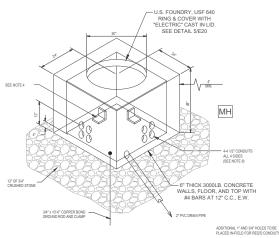
BOTTOM VIEW

MANHOLE/HANDHOLE COVER

DISC. XXX Ø 480Y 277Y SUPPLIED FROM XXX (TYP.) TYPICAL EQUIPMENT LABELING DETAIL

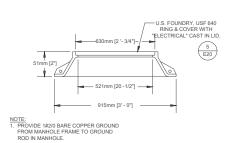








DIAGRAMMATIC







MANHOLE NOTES:

- CONCRETE SHALL BE 3,000 PSI

 CONCRETE SHALL BE 3,000 PSI

 CAST INFO MANNOLE COVER PAUL SEAD TELECTRICAL*

 CAST INFO MANNOLE COVER PAUL SEAD TELECTRICAL*

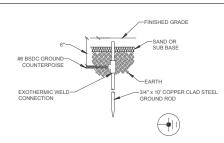
 CALVANIZED STEEL OF REPRELADS CABLE RECKSSLEPORTS ALL 4 SIDES.

 HAMPIGLE SHALL BE CONSTRUCTED FOR WHEEL-LOADING AS NOTED.

 HAMPIGLE SHALL BE SHALL BE CONSTRUCTED FOR WHEEL-LOADING AS NOTED.

 HAMPIGLE SHALL BE S

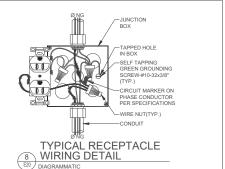


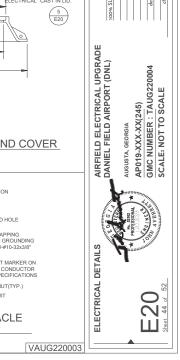


89mm [3-1/2"]

[1/2"] DIA. ROD





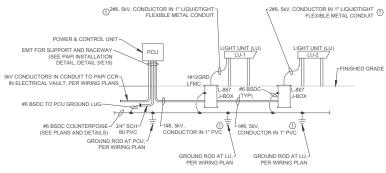


DATE

ISSUE

JDZ

JBZ JEA



GENERAL NOTES:
(APPLICABLE TO THIS RISER ONLY)
A THIS DETAIL IS BASED ON AN L-881 (2 LIGHT UNIT), STYLE B (6.6A CURRENT DRIVEN), CLASS 1 (3.1 TO 131 DEG. F) PAPI AS MANUFACTURED BY ADB. REQUIREMENTS MAY VARY BETWEEN MANUFACTURERS. FINAL DETAIL SHALL BE APPROVED BY ENGINEER.

- B. PERFORM INITIAL PCU SETUP AND CALIBRATION IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- C. SETUP NIGHTTIME INTENSITY FOR 5% OR 20%, BASED ON THE OWNER'S PREFERENCE. COORDINATE WITH OWNER.

KEYED NOTES: (#)
(APPLICABLE TO THIS RISER ONLY)

1. CABLE CONNECTORS FOR WIRING BETWEEN PCU AND LU'S ARE TYPICALLY FURNISHED WITH PAPI.

PAPI SYSTEM RISER DIAGRAM

801 Broad Street, Suite 900 Augusta, GA 30901 T 607.303.3272 GMCNETWORK, COM

ISSUE DATE

AIRFIELD ELECTRICAL UPGRADE DANIEL FIELD AIRPORT (DNL)

AP019-XXX-XX(245)
GMC NUMBER: TAUG220004
SCALE: NOT TO SCALE ELECTRICAL DETAILS

