AUGUSTA REGIONAL AIRPORT RUNWAY 17-35 APPROACH IMPROVEMENTS CAT II **1501 AVIATION WAY** AUGUSTA, GA 30906-9620 0119700-221073.01 AUGUST 16, 2024 **ISSUED FOR BID**



RICHMOND COUNTY





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SHEET CONTENTS COVER SHEET

SHEET NO.

G-001

ABBREVIATIONS:

ABBREVIATIONS:

А	ABANDON	GA MUTC
AB	AGGREGATE BASE	GP
A/C	AIRCRAFT	GND
ABAND	ABANDON	GPM
AC	ASPHALT CONCRETE	GPSP
ALCMS	AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM	GS
ALT		НН
AMSL		н
AOA	AIRCRAFT OPERATIONS AREA	HDPE
APCH		HIRL
APPROX		HIR;THL
ASB		HORIZ
		HMA
		HP
		HW
BC	BEGINNING OF CURVE	HWL
BIT	BITUMINOUS	HWY
BLDG	BUILDING	IE
BM	BENCHMARK	IFR
BOT	BOTTOM	ILS
BVC	BEGINNING OF VERTICAL CURVE	IN
CA TEAM	CONSTRUCTION ADMINISTRATION TEAM	IP
C-C	CENTER TO CENTER	L
СВ	CATCH BASIN	LBS
CIPCP	CAST IN-PLACE CONCRETE PIPE	LF
CJ	CONSTRUCTION JOINT	LOC
CFS	CUBIC FEET PER SECOND	LWL
CL	CENTERLINE	MH
CLF	CHAINLINK FENCE	MALS
CLR	CLEAR	MALSE
CMP	CORRUGATED METAL PIPE	MALSR
CO	CLEANOUT	MAA
CONC	CONCRETE	
CE	CONCRETE ENCASED	MID
CONT	CONTINUOUS	MIRI
CP	CONTROL POINT	MITI
СТВ	CEMENT TREATED BASE	MPH
CKT	CIRCUIT	N
CSPP	CONSTRUCTION SAFETY PHASING PLAN	(N)
DB		NIC
DEG	DEGREE	NO. OR ;
DI	DROP INLE I	NOTAM
DEMO	DEMOLISH	NTS
DIA	DIAMETER	OFF
		OFZ
		O/S
UP (E)		OC
(Ľ)		ОН
EC		OWS
EG		PAPI
FLEV	FLEVATION	PR
EOP	EDGE OF PAVEMENT	PB
EQ	EQUAL	PC
EVC	END OF VERTICAL CURVE	PCC
ETR		PCF
FAA	FEDERAL AVIATION ADMINISTRATION	PERF
FBO	FIXED BASE OPERATOR	PI
FES	FLARED END SECTION	POB
FF	FINISHED FLOOR	POC
FG	FINISHED GRADE	POE
FH	FIRE HYDRANT	PSI
FL	FLOW LINE	PSF
FOD	FOREIGN OBJECT DEBRIS	PT
FPS	FEET PER SECOND	PVC
FT	FEET	PVC
G	GAS LINE	PVI
GAL	GALLON	PVT
GALV	GALVANIZED	Q
		ΟΤΥ

A MUTCD	GEORGIA MANUAL ON UNIFORM TRAFFIC CONTROL	R	RADIUS		ANTEN	
CR		(R)	REMOVE	•	BENCH	IARK _
GND	GROUND	R&R	REMOVE AND REPLACE		CONTROL	POINT
GPM	GALLONS PER MINUTE	RC	RELATIVE COMPACTION	X	CHISEL	ED X
GPSP	GENERAL PERRY SMITH PARKWAY	REL	RELOCATE EXISTING	\odot	CLEANOUT, SANIT	ARY OR STORM
GS	GLIDE SLOPE	RCP		$\overline{\mathbb{M}}$	ELECTRICA	_ METER
НН	HANDHOLE	REQ		\boxtimes	ELECTRICAL / COMMUN	CATIONS PEDESTAL
Н	HEIGHT	ROFA		ESP	ELECTRICAL TRAN	SFORMER BOX
HDPE	HIGH DENSITY POLYETHYLENE	ROW RP7				
HIRL	HIGH INTENSITY RUNWAY LIGHT	RFZ		۲ چ	ELECTRICAL HAND FIRE HYD	RANT
HIR;THL	HIGH INTENSITY THRESHOLD LIGHT	RSA		(D)	GAS ME	TER _
HORIZ	HORIZONTAL	RWA	RUNWAY WORK RESTRICTED AREA	X2	GAS VA	LVE
HMA	HOT MIX ASPHALT	RWAPP	RUNWAY APPROACH LIGHT	$\overline{\bigcirc}$	GAT	E –
HP	HIGH POINT	RWY OR RW	RUNWAY	НН	HANDHOLE,	GENERIC
HW	HEADWALL	S	SANITARY LINE		INLET, C	URB
HWL	HIGH WATER LEVEL	SF	SQUARE FOOT	(CB)	INLET, R	DUND
HWY	HIGHWAY	SG	STRAIGHT GRADE		INLET, SC	UARE
IE		SH	SHOULDER	Ø	IRON	PIN _
IFR		SIDA	SECURITY IDENTIFICATION DISPLAY AREA	A	LIGHT POLE	(SINGLE)
ILS		SMGS	SURFACE MOVEMENT GUIDANCE AND CONTROL	SYSTEM O•O	LIGHT POLE	(DOUBLE)
		SPCD	SAFETY PLAN COMPLIANCE DOCUMENT		MANHOLE, E	LECTRIC
1		SS	STAINLESS STEEL		MANHOLE, FI	
L BS	POUNDS	ST	STORM LINE	(5)	MANHOLE, SANI	
LF		STA	STATION			
LOC		STD	STANDARD		MANHOLE, TELECO	
LWL	LOW WATER LEVEL	STL	STEEL		MANHOLE	
MH	MANHOLE	Т	TELEPHONE LINE		MARKER,	
MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM	TC				
MALSF	MALS W/ SEQUENCED FLASHERS	IG Tu				
MALSR	MALS W/ RUNWAY ALIGNMENT INDICATOR LIGHTS				POWER POLE	
MAX	MAXIMUM	TOE		ري بن	POWER POLE	NITH LIGHT
ME	MATCH EXISTING				PVC P	IPE
MID	MID POINT			\bigcirc	REBA	R
MIN	MINIMUM	TOFA) sv ⊠	SANITARY	VALVE
MIRL	MEDIUM INTENSITY RUNWAY LIGHT	TSA	TAXIWAY SAFETY AREA	(T)	SEPTIC TAN	IK VENT
MITL	MEDIUM INTENSITY TAXIWAY LIGHT	ТҮР	TYPICAL		SIGN (SING	E POST)
MPH	MILES PER HOUR	UD		$\overline{\circ}$ $\overline{\circ}$	SIGN (DOUB	LE POST)
Ν	NO	OFA	OBJECT FREE AREA		SOIL BO	
(N)	NEW	UFN	UNTIL FURTHER NOTICE			
		UG	UNDERGROUND	∑ × X	WATER \	ALVE
NO. OR #		UON	UNLESS OTHERWISE NOTED	$^{*}{}_{\mathcal{S}^{\circ}}^{\circ}$	WATER SH	UT OFF
		V	VELOCITY		WATER N	IETER
	OFESET	VC	VERTICAL CURVE	— <u>×</u> ———————————————————————————————————	WATER SU	
OF7		VERT	VERTICAL	OHE	— ELECTRIC, O	, VERHEAD
0/S	OFFSET	VFR	VISUAL FLIGHT RULES	———— E ———	— ELECTRIC, UNE	ERGROUND
OC	ON CENTER	VG	VALLEY GUTTER	—(xx.)xxx —(xx.)xxx	EXISTING CON	FOUR LINES
ОН	OVERHEAD	VIF	VERIFY IN FIELD	X		
OWS	OIL WATER SEPARATOR	VASI			- PROPERT	Y LINE
PAPI	PRECISION APPROACH PATH INDICATOR	VV	WATER LINE	SS	— SANITARY	SEWER
PR	PAIR	VVA		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	STONE RETAIL	
PB	PULL BOX	W/O		SD		CULVERT
PC	POINT OF CURVATURE	WSE	WATER SUBFACE ELEVATION		5004	
PCC	PORTLAND CEMENT CONCRETE	WSP	WELDED STEEL PIPE			
PCF	POUNDS PER CUBIC FOOT	WV	WATER VALVE			
PERF	PERFORATED	WWM	WELDED WIRE MESH			
PI	POINT OF INTERSECTION			LINEI	YPE LEGEND	
POB	POINT OF BEGINNING					DD0D005D
POC					EXISTING	PROPOSED
POE				EDGE OF PAVEMENT		
701 Def				RUNWAY SAFETY AREA	RSA	RSA
гог рт					DOFA	DOFA
PVC				RUNWAT UBJEUT FREE AREA	RUFA	
PVC				TAXIWAY SAFETY AREA	TSA	TSA
PVI	POINT OF VERTICAL INTERSECTION			TAXIWAY OBJECT FREE AREA	TOFA	TOFA
PVT	POINT OF VERTICAL TANGENCY				<u> </u>	100
Q	RATE OF FLOW				IUU	
QTY	QUANTITY			MINOR CONTOUR	<u> </u>	101
				DITCH	· · ·	· ·

LEGEND AND ABBREVIATIONS

ABBREVIATIONS:

LEGEND:



W Y

 (P) $\langle 0 \rangle$ _____ ____ ___

►

_____ //E// _____

TELEPHONE TV CABLE WATER WETLAND BOUNDARY WETLAND

EXISTING RUNWAY EDGE LIGHT ABANDONED RUNWAY EDGE LIGHT CAN WITH BLANK PLATE EXISTING JUNCTION CAN EXISTING GUIDANCE SIGN EXISTING WIRE AND CONDUIT TO REMAIN EXISTING DUCT BANK EXISTING TAXIWAY EDGE LIGHT DIRECT-BURIED CABLE TO BE ABANDONED

IN-PLACE — FAA — FAA CABLE



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SHEET CONTENTS LEGEND & ABBREVIATIONS

SHEET NO.

G-002



COORDINATION

- 1. PRECONSTRUCTION CONFERENCE.
- A.A PRECONSTRUCTION CONFERENCE WILL BE CONVENED AND CONDUCTED BY THE AIRPORT AUTHORITY AND CONSTRUCTION ADMINISTRATION TEAM (CA TEAM). THIS CONFERENCE WILL BE USED TO DISCUSS OPERATIONAL SAFETY, TESTING, QUALITY CONTROL, QUALITY ACCEPTANCE, SECURITY, SAFETY, LABOR REQUIREMENTS, ENVIRONMENTAL FACTORS, AND OTHER FACTORS THAT WILL PERTAIN TO THIS CONSTRUCTION PROJECT.
- B. THE PRECONSTRUCTION CONFERENCE WILL BE CONDUCTED AS SOON AS PRACTICABLE AFTER THE CONTRACT HAS BEEN AWARDED AND HELD BEFORE THE NOTICE TO PROCEED IS GIVEN TO THE CONTRACTOR.
- C.PARTICIPANTS IN THE PRECONSTRUCTION CONFERENCE SHALL INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, FAA AIR TRAFFIC CONTROL, CONTRACTOR, AND SUBCONTRACTORS.
- D. THE INFORMATION COVERED IN THIS MEETING WILL FOLLOW THE GUIDELINES OUTLINED IN AC 150/5300-9B, "PREDESIGN PREBID, AND PRECONSTRUCTION CONFERENCES FOR AIRPORT GRANT PROJECTS."
- 2. CONTRACTOR PROGRESS MEETINGS
- A.DURING THE DURATION OF THE PROJECT, WEEKLY CONTRACTOR PROGRESS MEETINGS WILL BE HELD AND CONDUCTED BY THE CONSTRUCTION ADMINISTRATION TEAM.
- B. THE PROGRESS MEETINGS WILL COVER PROJECT SCHEDULE, CONSTRUCTION SAFETY, ISSUES, ETC.
- 3. FAA AIR TRAFFIC CONTROL ORGANIZATION COORDINATION
- A. COMMUNICATION WITH THE FAA AIR TRAFFIC CONTROL TOWER WILL BE COORDINATED BY THE AIRPORT STAFF, CONSTRUCTION ADMINISTRATION TEAM AND/OR THE AIRPORT OPERATIONS DIVISION.
- B. THE FAA AIR TRAFFIC CONTROL TOWER PERSONNEL WILL BE INVITED TO ATTEND THE PRECONSTRUCTION CONFERENCE AT WHICH TIME THE OVERALL CONSTRUCTION SCHEDULE WILL BE PRESENTED
- C.A MEETING WILL BE SCHEDULED WITH THE FAA AIR TRAFFIC CONTROL PERSONNEL PRIOR TO THE START OF EACH MAJOR CONSTRUCTION PHASE WHICH SIGNIFICANTLY IMPACTS/MODIFIES AIRFIELD CLOSURES THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. PARTICIPANTS IN THESE MEETINGS SHALL INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, FAA AIR TRAFFIC CONTROL, CONTRACTOR, AND SUBCONTRACTORS.

ARFF VEHICLE ACCESS ROUTE

1. CROSS AIRPORT ACCESS FOR ARFF VEHICLES SHALL NOT BE IMPACTED DURING THIS PROJECT.

PROTECTION OF NAVIGATION AIDS (NAVAIDS)

1. THERE ARE VARIOUS FAA AND AIRPORT OWNED NAVIGATIONAL AIDS LOCATED WITHIN OR NEAR THE PROJECT LIMITS. CONTRACTOR WILL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EQUIPMENT, INCLUDING, BUT NOT LIMITED TO; COORDINATION WITH FAA TECH OPS PERSONNEL TO IDENTIFY ABOVE GROUND EQUIPMENT AND BELOW GROUND CABLING AND BARRICADING AROUND EQUIPMENT AS NECESSARY TO MAINTAIN SEPARATION BETWEEN CONTRACTORS' EQUIPMENT AND NAVAID EQUIPMENT. ANY DAMAGE TO NAVAIDS WILL BE REPAIRED OR REPLACED AT CONTRACTORS' EXPENSE TO THE SATISFACTION OF THE OWNER. A NOTAM WILL BE ISSUED TO CLOSE RUNWAYS AFFECTED BY UNANTICIPATED POWER OUTAGES OR DAMAGING OF NAVAIDS, WITH THE CONTRACTOR IMMEDIATELY RESTORING POWER THROUGH COORDINATION OF THE OWNER.

CONTRACTOR ACCESS

CONSTRUCTION SITE ACCESS AND HAUL ROAD

- 1. HAUL ROADS TO BE USED ON THIS PROJECT ARE INDICATED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY AUTHORIZED BY THE CA TEAM. THE CONTRACTOR SHALL CONFINE ALL VEHICLES AND EQUIPMENT TO THE DESIGNATED CONSTRUCTION AREAS, STAGING AREAS AND HAUL ROUTES.
- 2. ACCESS POINTS TO THE PROJECT SITE ARE SHOWN ON THE DRAWINGS. THE SPECIFIED GATES SHALL BE MONITORED BY A CONTRACTOR SUPPLIED GUARD DURING ALL CONTRACTOR OPERATIONS WHILE THE GATE IS OPEN OR UNLOCKED.
- 3. THE CONTRACTOR SHALL RESTORE ALL TURFED AND PAVED AREAS USED FOR HAUL ROADS TO THEIR ORIGINAL CONDITION, INCLUDING ESTABLISHMENT OF NEW TURF. ALL COSTS FOR CONSTRUCTING, REMOVING, AND RESTORING OF HAUL ROADS REQUIRED FOR THE COMPLETION OF THE WORK SHALL BE BY THE CONTRACTOR UNDER MOBILIZATION. THE EXISTING CONDITION OF ALL ANTICIPATED HAUL ROUTES SHALL BE DOCUMENTED BY THE CONTRACTOR PRIOR TO HAULING.
- 4. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE PROJECT SITE. CONTRACTOR PROVIDED DIRECTIONAL SIGNAGE AT THE ACCESS GATES AND ALONG THE DELIVERY ROUTE TO THE STAGING AREA AND PROJECT SITE SHALL BE SUBMITTED AND REVIEWED BY THE DESIGNER AND AIRPORT OPERATIONS PRIOR TO INSTALLATION.
- 5. ALL CONTRACTOR MATERIAL ORDERS FOR DELIVERY TO THE SITE SHALL BE DIRECTED TO THE ACCESS POINT IDENTIFIED OR CONTRACTOR STAGING AREA.
- 6. THE CONTRACTOR, THROUGH AIRPORT OPERATIONS/SECURITY, SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUB-CONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE PROJECT SITE. VEHICLE USE PERMITS SHALL BE OBTAINED BY THE CONTRACTOR IN ACCORDANCE WITH AIRPORT PROCEDURES.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF OFF-SITE ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE.
- 8. ALL VEHICLES USING HAUL ROUTES INCLUDING OFF-SITE ROUTES, SHALL BE COVERED TO PREVENT BLOWING AWAY OR SPILLAGE OF LOOSE MATERIAL. ALL SPILLAGES ON PUBLIC ROADWAYS AND SITE ROADS SHALL BE PROMPTLY CLEANED UP AND LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE SPONSOR.
- 9. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY ACCESS OR HAUL ROADS OTHER THAN THOSE DESIGNATED ON THE CONTRACT DRAWINGS. EMERGENCY ACCESS BY AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) RIGHT-OF-WAY ON ACCESS ROADS, HAUL ROADS, TAXIWAYS, AND RUNWAYS SHALL NOT BE IMPEDED AT ANY TIME.

CONTRACTOR STAGING AREA

- 1. THE LIMITS OF CONSTRUCTION, CONTRACTOR'S STAGING AREA AND STOCKPILING AREAS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION ARE SHOWN ON THE PLANS. ADDITIONAL AREAS MAY BE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE DESIGNER AND OWNER. THE CONTRACTOR SHALL PROVIDE DEVICES VISIBLE FOR BOTH DAY AND NIGHT USE TO DELINEATE THE PERIMETER OF ALL SUCH AREAS.
- 2. CONTRACTOR SHALL INSTALL A MINIMUM 3" THICK GRADED AND COMPACTED GRAVEL BED OR RECYCLED ASPHALT PAVEMENT TO THE LIMITS OF THE CONTRACTOR STAGING AREA THAT IS NOT IMPERVIOUS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES FROM ANY DAMAGE CAUSED WHILE THE AREA IS BEING USED AS A CONSTRUCTION STAGING AREA. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE AIRPORT AUTHORITY AND AT NO ADDITIONAL COST TO THE AIRPORT AUTHORITY. A STAGING AREA LAYOUT PLAN SHALL BE SUBMITTED TO AIRPORT AND THE DESIGNER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS WITHIN 10 FEET OF AOA FENCE AND/OR PERIMETER FENCE.
- 4. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AT THE STAGING AND STOCKPILE AREAS AND PROVIDE TEMPORARY ROUTING OF STORMWATER AROUND THE AREAS.
- 5. CONTRACTOR SHALL INFORM THE CA TEAM ON A DAILY BASIS OF THE DAILY CONSTRUCTION ACTIVITIES, AS WELL AS, UPCOMING ACTIVITIES WITH THE INTENT TO LIMIT AIRPORT OPERATION CONFLICTS.
- 6. ALL STAGING AREAS SHALL BE INSPECTED AND APPROVED BY AIRPORT FIRE MARSHALL. THE CONTRACTOR SHALL SUPPLY ANY AND ALL FIRE FIGHTING EQUIPMENT, PROTECTION AND SAFETY EQUIPMENT/SUPPLIES AS REQUESTED BY THE AIRPORT AUTHORITY'S FIRE MARSHALL WITHIN 24 HOURS AFTER REQUESTED.
 - ARFF CHIEF: MAIN LINE: (706) 798-3236 DIRECT: (706) 798-2696 CELL: (762) 994-6416
- 9. CONTRACTOR SHALL SUPPLY COVERED TRASH AND RUBBISH DUMPSTERS AND ALL OTHER CONTAINERS FOR REMOVAL OF TRASH, RUBBISH, AND DEBRIS RESULTING FROM THE WORK OF THE CONTRACT. THE CONTRACTOR SHALL NOT ALLOW DUMPSTERS TO OVERFLOW.
- 10. THE CONTRACTOR SHALL COMPLETELY CLEAN UP AND RESTORE THE ENTIRE STAGING AND STORAGE AREAS, AS APPROVED BY THE DESIGNER PRIOR TO FINAL COMPLETION. ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE PROJECT SITE AT THE CONTRACTORS EXPENSE, UNLESS PRIOR APPROVAL HAS BEEN GIVEN FROM THE AIRPORT AND THE STAGING AREA GRADED SMOOTH, SLOPED TO DRAIN AND SEEDED. INCIDENTAL TO C-105 MOBILIZATION, CLEANUP, AND DEMOBILIZATION.

CONTRACTOR EMPLOYEE AND EQUIPMENT PARKING

VEHICLE CONDITION

LOCATION OF STOCKPILED MATERIALS

- DIRECTED BY CA TEAM.

VEHICLE AND PEDESTRIAN OPERATIONS

- AN AIRPORT.
- OPERATIONS DISPLAYED.
- EQUIPPED.

REQUIRED ESCORTS

- TIMES.

TRAINING REQUIREMENTS FOR VEHICLE DRIVERS

- VEHICLE OPERATIONS.

TWO-WAY RADIO COMMUNICATIONS PROCEDURES

1. ALL VEHICLES SHALL BE PARKED AND SERVICED IN THE DESIGNATED STAGING AND EMPLOYEE PARKING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING EMPLOYEES FROM THESE AREAS TO THE JOBSITE. ALL SERVICING SHALL BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

2. ALL MATERIALS AND EQUIPMENT WHEN NOT IN USE SHALL BE PLACED IN APPROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO AIRCRAFT OPERATIONS AND NOT PENETRATE CLEARANCE HEIGHT RESTRICTIONS AS SHOWN ON THE CONSTRUCTION PLAN. ALL EQUIPMENT SHALL BE PARKED IN THE APPROPRIATE AREA WHEN NOT IN USE.

1. VEHICLES AND EQUIPMENT THAT ARE DEEMED A POTENTIAL HAZARD BY THE CA TEAM OR AIRPORT SHALL BE REMOVED FROM THE JOB SITE AND STAGED PROPERLY AT THE REQUEST OF THE CA TEAM. VEHICLES AND EQUIPMENT THAT LEAK ANY AUTOMOTIVE FLUID INCLUDING, BUT NOT LIMITED TO, OIL, HYDRAULIC FLUID, TRANSMISSION FLUID, GEAR OIL, GASOLINE, AND DIESEL WILL BE REMOVED TO THE STAGING AREA AND NOT ALLOWED TO OPERATE ON ANY PAVED SURFACE. IF THE VEHICLE CANNOT BE REPAIRED WITHIN A FEW DAYS THE VEHICLE SHALL BE REMOVED FROM THE AIRPORT. LEAKING FLUIDS ON PAVEMENTS DAMAGE THE PAVEMENT.

2. THE CONTRACTOR SHALL CLEANUP, AT CONTRACTOR'S EXPENSE, ANY AND ALL LEAKS OR SPILLS. LEAKS ON PAVED SURFACES SHALL BE CLEANED UP IMMEDIATELY. SIGNIFICANT LEAK SPOTS ON PAVEMENT, AS DETERMINED BY THE CA TEAM, SHALL BE REPLACED WITH NEW PAVEMENT. ASPHALT WILL REQUIRE MILLING AND PLACEMENT OF NEW BITUMINOUS MATERIAL; PCC WILL REQUIRE SAW, REMOVAL AND REPAIR AS DIRECTED BY THE CA TEAM. DIRT OR GRAVEL AREAS WILL REQUIRE REMOVAL, LEGAL DISPOSAL AND REPLACEMENT OF THE AREA WITH SIMILAR APPROVED MATERIALS

1. THERE SHALL NOT BE ANY STOCKPILED MATERIALS IN THE ACTIVE RUNWAY OFA, TAXIWAY OFA, OR NAVAID CRITICAL AREAS. STOCKPILED MATERIAL OR EQUIPMENT SHALL NOT BE STORED NEAR AIRCRAFT TURNING AREAS OR OPERATIONAL MOVEMENT AREAS, APRONS, OR EXCAVATIONS AND TRENCHES. STOCKPILED MATERIALS SHALL NOT BE STORED NEAR NAVAIDS, VISUAL OR APPROACH AIDS, NOR SHALL THEY OBSTRUCT THE ATCT'S LINE OF SIGHT TO ANY RUNWAY OR TAXIWAY. THE CONTRACTOR SHALL ENSURE THAT STOCKPILED MATERIALS DO NOT CAUSE DEGRADED OR HAZARDOUS CONDITIONS TO AIRPORT OPERATIONS SAFETY. THIS INCLUDES DETERMINING AND VERIFYING THAT STOCKPILED MATERIALS ARE STORED AT AN APPROVED LOCATION, THAT THEY ARE PROPERLY STOWED TO PREVENT FOREIGN OBJECT DEBRIS (FOD), ATTRACTION BY WILDLIFE, OR OBSTRUCTION OF AIR OPERATIONS EITHER BY THEIR PROXIMITY TO NAVAIDS OR TO AIRCRAFT MOVEMENT AREAS.

2. ALL STOCKPILED MATERIAL(S)/SUPPLIES SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT BLAST OR WIND CONDITIONS. MATERIAL(S)/SUPPLIES SHALL NOT BE STORED WITHIN 500 FEET OF AIRCRAFT TURNING AREAS OR MOVEMENT AREAS. STOCKPILED MATERIAL(S)/SUPPLIES SHALL NOT EXCEED 15 FEET IN HEIGHT UNLESS THE CONTRACTOR HAS COMPLIED WITH ALL REQUIREMENTS FOR AIRSPACING AND SECURED APPROVAL FROM AIRPORT OPERATIONS. ALL MATERIAL(S)/SUPPLIES SHALL BE POSITIONED SO IT WILL NOT OBSTRUCT THE LINE OF SIGHT FROM THE CONTROL TOWER TO THE MOVEMENT AREA. MARKING AND LIGHTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN THESE CONSTRUCTION PLANS. LOOSE MATERIALS, SUCH AS STRAW, SHALL BE COVERED AS

1. VEHICLE AND ACCESS ROUTES FOR AIRPORT CONSTRUCTION SHALL BE CONTROLLED AS NECESSARY TO PREVENT INADVERTENT OR UNAUTHORIZED ENTRY OF PERSONS, VEHICLES OR ANIMALS ONTO AIR OPERATION AREAS. NO VEHICLE SHALL ENTER THE AIR OPERATIONS AREA EXCEPT AT PREDETERMINED LOCATIONS. THE AMOUNT OF CONSTRUCTION TRAFFIC WILL REQUIRE THE CONTRACTOR TO USE A GUARD AT ACCESS GATES AND A FLAG PERSON TO CONTROL TRAFFIC CROSSING TAXIWAYS AND OTHER AIRCRAFT MOVEMENT AREAS. CONTRACTOR PERSONNEL WHO OPERATE VEHICLES IN THE AOA SHALL COMPLY WITH AC 150/5210-5 (LATEST VERSION), PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON

2. ALL CONSTRUCTION VEHICLES/MECHANIZED EQUIPMENT SHALL HAVE A VEHICLE PASS AS DETERMINED BY AIRPORT

3. ALL CONSTRUCTION VEHICLES/MECHANIZED EQUIPMENT AUTHORIZED WITHIN THE MOVEMENT AREA OR RELATED SAFETY AREAS SHALL BE MARKED WITH A CLEAN 3' X 3' ORANGE AND WHITE CHECKERED FLAG WITH EACH BOX BEING 1' SQUARE, LOCATED ON THE UPPERMOST PORTION OF THE VEHICLE/MOTORIZED EQUIPMENT, OR BE ESCORTED BY A VEHICLE SO

4. DURING NIGHTTIME HOURS, ALL EQUIPMENT OPERATING ON THE AIRPORT EXCEEDING 15 FEET IN HEIGHT SHALL BE LIT WITH A RED OBSTRUCTION LIGHT LOCATED ON THE UPPERMOST PORTION OF THE EQUIPMENT.

5. VEHICLES/MECHANIZED EQUIPMENT AUTHORIZED ON THE MOVEMENT AREA (RUNWAYS, TAXIWAYS, AND RAMPS) AND/OR ASSOCIATED SAFETY AREAS SHALL BE EQUIPPED WITH AN ELECTRICALLY POWERED. AMBER COLOR. 360-DEGREE OMNI-DIRECTION LIGHT, MOUNTED ON THE VEHICLE SUCH THAT IT IS CONSPICUOUS FROM ANY DIRECTION.

1. THE CONTRACTOR MUST PROVIDE AN ADEQUATE NUMBER OF ESCORTS FOR MATERIAL DELIVERIES ALONG HAUL ROUTES AND THE MOVEMENTS OF THE CONTRACTOR'S VEHICLES/MECHANIZED EQUIPMENT AND PERSONNEL WITHIN THE MOVEMENT AREA AND NON-MOVEMENT AREAS AS AUTHORIZED BY THE AIRPORT OPERATIONS. EACH ESCORT MAY ACCOMPANY A MAXIMUM OF 5 VEHICLES AT A TIME ACROSS MOVEMENT AREAS AND MUST MAINTAIN VISUAL ACCESS AT ALL

2. DURING ANY ABSENCE OF THE APPROVED ESCORT(S) OR FOR PERIODS THAT THEY ARE UNABLE TO PERFORM THEIR SPECIFIED DUTIES, ALL WORK WITHIN THE MOVEMENT AREA AND ASSOCIATED SAFETY AREAS FOR PROJECTS SHALL STOP. ADDITIONALLY, ALL PERSONNEL AND EQUIPMENT SHALL BE ESCORTED TO APPROVED LOCATIONS OUTSIDE THE MOVEMENT AREA AND RELATED SAFETY AREAS. NO CONTRACT TIME EXTENSION WILL BE GRANTED FOR TIME LOST DUE TO THE ABSENCE OF ESCORT(S). WORK SHALL RESUME ONLY WITH THE RETURN OF THE APPROVED ESCORT(S).

3. THE ESCORT SHALL ASSURE THAT ALL EQUIPMENT MAINTAINS PROPER CLEARANCES FROM MOVING AIRCRAFT.

1. CONTRACTOR EMPLOYEES DESIGNATED AS ESCORTS, ARE REQUIRED TO BE BADGED BY AUGUSTA REGIONAL AIRPORT OPERATIONS / SECURITY, GO THROUGH SECURITY/DRIVER'S SAFETY TRAINING PROGRAM, AND PASS THE ASSOCIATED TEST. TRAINING IS BY APPOINTMENT ONLY. FURTHER ADDITIONAL AIRFIELD AND SITE TRAINING WILL BE PROVIDED WITH BADGED INDIVIDUALS UPON SUCCESSFUL COMPLETION OF CLASSROOM TRAINING AND BEFORE THE START OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH BADGING SHALL BE AT THE CONTRACTOR'S EXPENSE.

2. MOVEMENT AREA ESCORT EMPLOYEES ARE REQUIRED TO COMPLETE AND PASS AN ADDITIONAL CLASS ON GROUND

 OPERATIONS MANAGER : MAIN LINE: (706) 798-3236 DIRECT: (706) 796-4004

1. THE ONSITE PROJECT SUPERINTENDENT AND ANY FLAGMEN ASSIGNED TO THE PROJECT WILL BE REQUIRED TO MONITOR AIRPORT TWO-WAY RADIO COMMUNICATIONS BETWEEN THE AIR TRAFFIC CONTROL TOWER AND PILOTS. THE CONTRACTOR WILL NOT CONTACT THE TOWER OR PILOTS, BUT USE RADIO MONITORING TO STAY INFORMED ABOUT ONGOING AIRPORT OPERATIONS AND AIRCRAFT MOVEMENTS. AUTHORIZED MOVEMENT AREA ROUTES WILL BE DETERMINED BY THE CA TEAM AND AIRPORT OPERATIONS. THE CONTRACTOR SHALL NOT ENTER OR CROSS ANY OPEN RUNWAY OR TAXIWAY WITHOUT AN AUTHORIZED ESCORT FROM THE CA TEAM OR AIRPORT OPERATIONS. NON-COMPLIANCE WILL RESULT IN REMOVAL OF THE VIOLATOR FROM THE JOB SITE AND THE VIOLATOR'S AIRPORT IDENTIFICATION BADGE WILL BE CONFISCATED. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FINES ASSOCIATED WITH THE VIOLATION. THE FAA FINE IS TYPICALLY \$11,000 MINIMUM PER OCCURRENCE. EMERGENCIES AND OPERATING CONDITIONS MAY NECESSITATE SUDDEN CHANGES, BOTH IN AIRPORT OPERATIONS AND IN THE OPERATIONS OF THE CONTRACTOR. AIRCRAFT OPERATIONS SHALL ALWAYS HAVE PRIORITY OVER ANY AND ALL OF THE CONTRACTOR'S OPERATIONS. SHOULD RUNWAYS OR TAXIWAYS BE REQUIRED FOR THE USE OF AIRCRAFT AND SHOULD AIRPORT OPERATIONS, THE CONTROL TOWER, OR THE CA TEAM DEEM THE CONTRACTOR TO BE TOO CLOSE TO ACTIVE RUNWAYS OR TAXIWAYS THE CONTRACTOR SHALL SUSPEND HIS OPERATIONS, REMOVE HIS PERSONNEL, PLANT, EQUIPMENT, AND MATERIALS TO A SAFE DISTANCE AND STAND BY UNTIL THE RUNWAYS AND TAXIWAYS ARE NO LONGER REQUIRED FOR USE BY AIRCRAFT. THERE WILL BE NO COMPENSATION FOR DELAYS OR INEFFICIENCIES DUE TO THESE CHANGES.

2. FOR SCHEDULING CONTACT AIRFIELD OPERATIONS TRAINING AT (706) 796-4004.

3. CONTRACTOR SHALL PROVIDE RADIOS CAPABLE OF MONITORING AIRPORT FREQUENCY 121.90 MHz.

MAINTENANCE OF THE SECURED AREA OF THE AIRPORT

- FOR SPECIAL CONDITIONS AND FOR OTHER CONDITIONS RELATING TO SAFETY.
- THE REQUIREMENTS OF THE SECURITY PERSONNEL.

WILDLIFE MANAGEMENT

- THE AIRPORT.
- TO CONTAINERS DURING NON-CONSTRUCTION PERIODS.

FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

- CLEANING SHALL BE INCIDENTAL TO PAY ITEM C-105 AIRFIELD SAFETY AND TRAFFIC CONTROL
- RUNWAY, TAXIWAYS AND/OR APRONS IS INCIDENTAL TO ITEM C-105 AIRFIELD SAFETY AND TRAFFIC CONTROL.
- HAUL ROADS, OR EXPOSED AREAS TO LIMIT DUST.

NOTIFICATION OF CONSTRUCTION ACTIVITIES

- THE CONSTRUCTION SAFETY PHASING PLAN.
- 2. CONTRACTOR SHALL INFORM THE CA TEAM ON A DAILY BASIS OF THE DAILY CONSTRUCTION ACTIVITIES. 3. NOTAMS
- WITH THE DESIGNER FOR NOTAM ISSUANCE.
- 4. EMERGENCY NOTIFICATION PROCEDURES
- (706) 799-5372.
- AND CA TEAM.
- 5. COORDINATION WITH ARFF
- IS ON AUGUSTA REGIONAL AIRPORT FOR THEM TO COORDINATE WITH THE AIRPORT AUTHORITY.
- B. NON-EMERGENCY COMMUNICATION WITH AIRPORT ARFF WILL BE COORDINATED BY THE CA TEAM.
- THE OVERALL CONSTRUCTION SCHEDULE WILL BE PRESENTED.
- OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, CONTRACTOR, AND SUBCONTRACTORS.

6. NOTIFICATION TO THE FAA

- THE CRANE.
- MAXIMUM EXTENDABLE HEIGHT.
- BEING 1' SQUARE.
- WITH AC 70/7460-1.
- SET CRANE LIMITERS DURING ALL CONSTRUCTION.

1. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS AS PER THE PHASING PLAN. CONFINE MEN, EQUIPMENT AND MATERIALS OUTSIDE OF THE RUNWAY OBJECT FREE AREA (ROFA) WHEN RUNWAY IS ACTIVE. CONFINE MEN, EQUIPMENT AND MATERIALS OUTSIDE OF THE TAXIWAY TOFA WHEN THE TAXIWAY IS ACTIVE. WORK SITE WILL GENERALLY BE ENCLOSED WITH CONSTRUCTION AREA MARKERS AS SHOWN ON THE SAFETY/PHASING PLAN. SEE THE SPECIFICATIONS

2. THE CONTRACTOR SHALL HAVE ACCESS TO THE AIRPORT ONLY AT THOSE LOCATIONS DESIGNATED ON THE PLANS. ALL OTHER ACCESS SHALL BE BY SPECIAL REQUEST AND SUBJECT TO APPROVAL BY AIRPORT OPERATIONS. THE CONTRACTOR WILL PROVIDE SECURITY PERSONNEL TO CONTROL MOVEMENTS THROUGH THE CONTRACTOR'S ACCESS GATE UNLESS THE GATE REMAINS LOCKED. THE CONTRACTOR SHALL REFER TO SPECIAL PROVISIONS SECTION OF THE SPECIFICATIONS FOR

1. CONTRACTOR SHALL INSTRUCT EMPLOYEES NOT TO DISCARD FOOD OR OTHER TRASH ON OR AROUND WORK SITES THAT COULD ATTRACT WILDLIFE. CONTRACTOR EMPLOYEES SHALL NOT INTENTIONALLY FEED ANY WILDLIFE WHILE WORKING AT

2. CONTRACTOR SHALL PROPERLY SEAL ALL TRASH CONTAINERS AT WORK SITES SUCH THAT WILDLIFE CANNOT GAIN ACCESS

3. CONTRACTOR SHALL NOTIFY AIRPORT OPERATIONS STAFF IF LARGE NUMBERS OF BIRDS ARE OBSERVED AT WORK SITES. CONTRACTOR SHALL IMMEDIATELY NOTIFY OPERATIONS STAFF IF DEER ARE SIGHTED WITHIN THE AIRFIELD FENCE.

1. THE CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES A VACUUM TYPE MECHANICAL SWEEPER AND WATER TRUCK TO CLEAN ALL TAXIWAY AND APRON PAVEMENT OF DIRT, STONES, AND LOOSE DEBRIS WHERE CONSTRUCTION TRAFFIC CROSSES AT ALL ACTIVE AIRPORT PAVED SURFACES. PAYMENT FOR VACUUM AND WATER TRUCKS OR FOR PAVEMENT

2. NO DEBRIS SHALL BE ALLOWED TO REMAIN ON THE ROADWAYS OR AIRPORT PAVED SURFACES. ACTIVE TAXIWAYS AND APRONS SHALL BE KEPT FREE OF DEBRIS AT ALL TIMES. USING POWER VACUUM SWEEPERS TO KEEP ALL ACCESS AND CONSTRUCTION AREAS CLEAR OF SOILS, CLODS, OR OTHER DEBRIS. PAYMENT FOR VACUUM SWEEPING AND CLEANING OF

3. THE CONTRACTOR SHALL HAVE AVAILABLE ON-SITE AT ALL TIMES A METHOD OF PERIODIC SPRAYING OF ANY STOCKPILE,

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY IN WRITING, AT LEAST 5 DAYS IN ADVANCE, AIRPORT STAFF AND THE CA TEAM OF ITS INTENTIONS TO BEGIN CONSTRUCTION, STATING THE PROPOSED TIME, DATE, AND AREA OF WHICH CONSTRUCTION IS TO OCCUR IN ORDER FOR THE APPROPRIATE NOTICE-TO-AIRMEN (NOTAM) TO BE ISSUED. DURING THE PERFORMANCE OF THIS CONTRACT, THE AIRPORT FACILITY SHALL REMAIN IN USE TO THE MAXIMUM EXTENT POSSIBLE. THE CONTRACTOR SHALL NOT ALLOW EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, OR ANY OTHER UNAUTHORIZED PERSONS TO ENTER IN ANY AIRPORT AREA WHICH MAY BE OPEN FOR AIRCRAFT USE, EXCEPT AS NOTED ON

A.IN ORDER FOR THE CONTRACTOR TO OPERATE WITHIN AIRPORT PROPERTY, APPROPRIATE NOTICES TO AIRMEN (NOTAM) MUST BE ISSUED BY THE AIRPORT THROUGH THE FAA FLIGHT SERVICE STATION. THESE NOTICES PROVIDE INFORMATION ON CLOSED, LIMITED, OR HAZARDOUS CONDITIONS TO AIRMEN AND USERS OF THE AIRPORT. A 72 HOUR NOTICE IS REQUIRED FOR ISSUANCE OF THE PROPER NOTAM, ALL CONSTRUCTION OPERATIONS MUST BE CLOSELY COORDINATED

A. THE CONTRACTOR SHALL IMMEDIATELY CALL 911 IF AN ACCIDENT OCCURS WITH INJURIES ON AIRPORT PROPERTY ADVISING THE LOCATION IS ON AUGUSTA REGIONAL AIRPORT FOR THEM TO COORDINATE WITH THE AIRPORT AUTHORITY. B. THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY AIRPORT OPERATIONS TO COORDINATE ALL EMERGENCY EFFORTS,

C. WITHIN 24 HOURS, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT OF ALL ACCIDENTS TO AIRPORT OPERATIONS

A.IF A FIRE OCCURS ON AIRPORT PROPERTY THE CONTRACTOR SHALL NOT ATTEMPT TO FIGHT THE FIRE BEYOND WHAT MAY BE DOUSED BY USE OF A FIRE EXTINGUISHER. THE CONTRACTOR SHALL IMMEDIATELY CALL 911 ADVISING THE LOCATION

C. AN AIRPORT ARFF REPRESENTATIVE WILL BE INVITED TO ATTEND THE PRECONSTRUCTION CONFERENCE AT WHICH TIME

D. A MEETING WILL BE SCHEDULED WITH THE AIRPORT ARFF REPRESENTATIVE PRIOR TO THE START OF EACH MAJOR CONSTRUCTION PHASE WHICH SIGNIFICANTLY IMPACTS/MODIFIES AIRFIELD CLOSURES THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. PARTICIPANTS IN THESE MEETINGS SHALL INCLUDE: AIRPORT STAFF, AIRPORT

A. THE CONTRACTOR'S USE OF CRANES, BOOM TRUCKS, CONCRETE PUMP TRUCKS, DRILL RIGS AND OTHER TALL OBJECTS WILL REQUIRE SUBMITTAL AND APPROVAL BY THE AIRPORT AND DESIGNER. IF ON AIRPORT PROPERTY, THE EQUIPMENT SHALL REQUIRE FAA AIRSPACE REVIEW AS SUBMITTAL ON FAA FORM 7460-1 NOTICE OF CONSTRUCTION.

IF CONTRACTOR REQUIRES EQUIPMENT IN EXCESS OF MAXIMUM ALLOWABLE HEIGHT, THEN SUBMIT A 7460-1 45 DAYS IN ADVANCE OF CRANE ERECTION. ALL CONSTRUCTION INVOLVING CRANES SHALL FURTHER BE COORDINATED AT LEAST 5 DAYS IN ADVANCE, EXCLUDING WEEKENDS, WITH THE AIRPORT OPERATIONS. THIS DOES NOT INCLUDE THE TIME REQUIRED FOR AIRSPACE REVIEW. THE FOLLOWING INFORMATION AND ACTIONS ARE REQUIRED:LOCATION OF

• THE TOP OF EACH CRANE BOOM SHALL BE MARKED BY A 3' X 3' ORANGE AND WHITE CHECKERED FLAG -- EACH BOX

 EACH CRANE SHALL BE LOWERED AT NIGHT AND DURING PERIODS OF POOR VISIBILITY AS DIRECTED BY AIRPORT OPERATION. IN THE EVENT THE CRANE IS APPROVED TO REMAIN EXTENDED DURING THE HOURS FROM SUNSET TO SUNRISE, THE HIGHEST POINT OF THE CRANE BOOM WILL BE LIT WITH A RED OBSTRUCTION LIGHT IN ACCORDANCE





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NOT FOR CONSTRUCTION

M&H NO.:	0119700-221073.01
DATE:	AUGUST 16, 2024
DESIGNED BY:	NJH
DRAWN BY:	NJH
CHECKED BY:	EJS
DO NO	T SCALE DRAWINGS

SHEET CONTENTS CONSTRUCTION SAFETY PHAING PLAN NOTES

SHEET NO.

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INSPECTION REQUIREMENTS

- 1. CONSTRUCTION EQUIPMENT: THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION EQUIPMENT ON A DAILY BASIS TO ENSURE THAT THE EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ORANGE AND WHITE CONSTRUCTION FLAGS AND BEACONS ARE PRESENT, CLEAN, AND IN GOOD CONDITION.
- 2. CONSTRUCTION BARRICADES: THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION BARRICADES ON A DAILY BASIS TO ENSURE THAT BARRICADES ARE IN GOOD CONDITION AND THAT FLASHING BEACONS ARE IN WORKING ORDER. IF BARRICADES ARE DAMAGED THEY SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND REPLACED IMMEDIATELY. ANY INOPERABLE FLASHING LIGHTS SHALL BE REMOVED AND REPLACED AT THE END OF EVERY DAY.
- 3. CONSTRUCTION EQUIPMENT FUELING AREA: THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION EQUIPMENT FUELING AREA DAILY. ANY FUEL SPILLS WILL BE REPORTED TO AIRPORT OPERATIONS AS SOON AS SPILL HAS BEEN IDENTIFIED. IF TEMPORARY FUEL TANKS ARE SUPPLIED BY THE CONTRACTOR THEY MUST BE SURROUNDED BY CONCRETE JERSEY BARRIERS. ALSO, TANKS MUST BE MARKED FLAMMABLE ON ALL SIDES AND LABELED WITH THE TYPE OF FUEL THEY CONTAIN. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AN SPCC FOR THE FUEL TANKS, IF REQUIRED, IN ACCORDANCE WITH FEDERAL REGULATIONS.
- 4. ACTIVE AIRPORT PAVEMENTS: THE CONTRACTOR SHALL INSPECT ALL ACTIVE AIRPORT PAVEMENTS CONTINUOUSLY DURING CONSTRUCTION ACTIVITIES. MATERIALS TRACKED ONTO ACTIVE AIRPORT PAVEMENTS MUST BE CONTINUOUSLY REMOVED DURING THE PROJECT. PRIOR TO LEAVING THE CONSTRUCTION SITE AT THE END OF EACH DAY, THE CONTRACTOR MUST CONTACT AIRPORT OPERATIONS FOR AN INSPECTION OF THE CLEANLINESS OF AIRPORT PAVEMENTS.
- 5. A FINAL SAFETY INSPECTION MAY BE REQUIRED PRIOR TO ALLOWING AIR CARRIER SERVICE. COORDINATION WITH THE FAA AIRPORT CERTIFICATION SAFETY INSPECTOR WILL DETERMINE IF A FINAL INSPECTION WILL BE NECESSARY.

UNDERGROUND UTILITIES

1. THE CONTRACTOR SHALL IDENTIFY ANY KNOWN UNDERGROUND INTERFERENCES OR DISCREPANCIES ON ALL AVAILABLE DRAWINGS THAT CAN BE PROVIDED BY CONTACTING THE DESIGNER AND THE CA TEAM AT:

MEAD & HUNT, INC. 5955 CORE ROAD, SUITE 515 NORTH CHARLESTON, SC 29046 PHONE: (803) 520-2986

- 2. PRIOR TO COMMENCING ANY EXCAVATION (ON OR OFF AOA), DRILLING (ON OR OFF THE AOA), DRIVING FENCE POSTS (ALONG THE AOA), TRENCHING (ON OR OFF THE AOA), SAW CUTTING (AOA ONLY), THE CONTRACTOR SHALL PERFORM GPR ACROSS THE ENTIRE SITE TO BE DISTURBED AND SHALL REVIEW DRAWINGS WITH AIRPORT TO INSURE THAT ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES ARE IDENTIFIED. IN ADDITION THE CONTRACTOR SHALL CONTACT GEORGIA 811, AND FAA AND COORDINATE WITH THE AIRPORT PROJECT SUPERVISOR TO ASSIGN THE VERIFICATION OF UTILITIES BY AIRPORT MAINTENANCE. GEORGIA 811 FAA, MAINTENANCE, AND THE CONTRACTOR SHALL ATTEMPT TO LOCATE UTILITIES THE CONTRACTOR WILL BE COMPLETELY RESPONSIBLE FOR ALL DAMAGE TO UNDERGROUND UTILITIES. THE CONTRACTOR SHALL COORDINATE REQUEST FOR SWEEPS OF UTILITIES BY COMPLETING THE CONTRACTOR REQUEST FOR SWEEP FORM AT LEAST 72 HOURS PRIOR TO ANY EXCAVATIONS. AIRPORT AUTHORITY WILL NOTIFY THE CONTRACTOR A MINIMUM WITH 24 HOURS AFTER RECEIVING NOTICE. AT THAT TIME THE AIRPORT AUTHORITY WILL INDICATE IF IT CAN COMPLETE THE SWEEP. IF IT CAN'T, THE CONTRACTOR WILL BE RESPONSIBLE TO COMPLETE THE SWEEP AND/OR USE GEORGIA 811.
- 3. EACH UTILITY SHALL BE SWEPT IN THE FOLLOWING MANNER: FLAGS CAN BE USED BUT SHALL BE COLOR COORDINATED AS SUGGESTED BELOW. IN ADDITION THE "ACRONYM" FOR THAT UTILITY SHALL BE WRITTEN ON ONE SIDE OF THE FLAG WITH A PERMANENT MARKER.
- 4. STAKES CAN BE USED. THE TOP TWO INCHES OF THE STAKE SHALL BE PAINTED IN COLOR AS SUGGESTED BELOW. IN ADDITION THE "ACRONYM" FOR THAT UTILITY SHALL BE WRITTEN ON ONE SIDE OF THE STAKE WITH A PERMANENT MARKER. STAKES SHOULD NOT BE USED IN RSA OR TSA IF THEY CAN BE AVOIDED.
- 5. PAINTING IS ONLY AUTHORIZED ON ASPHALT, CONCRETE, AND METAL SURFACES. MARKINGS SHALL BE COLOR COORDINATED AS SUGGESTED BELOW. THE ACRONYM FOR THE UTILITY SHALL BE USED FOR EACH UTILITY. A LINE THAT SHOWS THE DIRECTION OF THE UTILITY SHALL EMANATE FROM THE ACRONYM IN EACH DIRECTION.
- 6. ALL MARKING OF UTILITIES SHALL BE EVERY 50 FEET.

	ACRONYM	COLOF
ELECTRICAL LOOPS (NON AOA)	USE "ELEC"	RED
AIRFIELD ELECTRICAL	USE "ELEC"	RED
NATURAL GAS	USE "NAT GAS"	YELLO
SANITARY	USE "SANIT"	BROWI
STORM	USE "STORM"	BROWI
WATER (POTABLE AND FIRE)	USE "WATER"	BLUE
FAA COPPER	USE "FAA COP"	RED
FAA FIBER	USE "FAA FIB"	ORANO
FIBER	USE "FIBER"	ORANO
TELEPHONE	USE "TELE"	ORANO

- 7. IF UNDERGROUND UTILITY IS ABANDONED, CONTRACTOR SHALL STILL STAKE, MARK, OR FLAG BUT WRITE DOWN "ABAND" BEFORE THE ABBREVIATED PREFIX INDICATED ABOVE.
- 8. THE INDIVIDUAL MARKING. STAKING. OR FLAGGING SHALL MARK THE UTILITIES IN A WAY THAT COINCIDES WITH THE DRAWINGS THAT ARE REFERENCED ON THE REQUEST FOR SWEEP FORM.
- 9. IF A UTILITY OR ANY UNDERGROUND OBSTRUCTION IS FOUND IT SHALL BE REPORTED IMMEDIATELY TO THE DESIGNER OR THE AIRPORT PROJECT SUPERVISOR.
- 10. CONTRACTOR EMPLOYEES IN AN EXCAVATION SHALL BE PROTECTED FROM CAVE-INS BY AN ADEQUATE PROTECTIVE SYSTEM UNLESS THE EXCAVATION IS:
- A.MADE ENTIRELY OF STABLE ROCK, OR
- B. LESS THAN 5 FEET DEEP AND DETERMINATION HAS BEEN MADE THAT THERE IS NO POTENTIAL FOR A CAVE-IN.
- 11. EXCAVATION SHALL BE PROTECTED USING PROPER BARRICADING MATERIALS WHICH SHALL BE INSTALLED A MINIMUM OF 6 FEET BACK FROM EXCAVATION (UNLESS IN CONFLICT WITH AIRFIELD REQUIREMENTS). BARRICADE MATERIAL CAN BE WOOD, STEEL CABLES, OR CHAIN SUPPORTED AT INTERVALS SO THAT THE BARRICADE DOES NOT SAG OR DROOP BELOW THE REQUIRED HEIGHT. CAUTION TAPE IS NOT AN APPROVED BARRICADE MATERIAL. GUARDRAIL/JERSEY BARRIERS MAY BE REQUIRED AND SHALL PROVIDE A TOP RAIL, MID RAIL, AND TOE BOARD AT PROPER ELEVATIONS AND BE ABLE TO WITHSTAND A MINIMUM 200 POUND FORCE WITHOUT COLLAPSING. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING ANY TRENCHING PLANS IN ACCORDANCE WITH OSHA REGULATIONS.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING UTILITY INFORMATION FOR USE DURING CONSTRUCTION AND PREPARATION OF AS-BUILTS.

PENALTIES

1. ENTERING THE MOVEMENT AREA (I.E. RUNWAYS, TAXIWAYS, ETC.) WITHOUT AUTHORIZATION FROM THE FAA AIR TRAFFIC CONTROL TOWER AND THE AIRPORT OPERATIONS WILL RESULT IN THE SUSPENSION OF AN ASSIGNED ID BADGE AND/OR RAMP DRIVING PRIVILEGES AND COULD SUBJECT THE CONTRACTOR'S KEY PERSONNEL TO PERMANENT REVOCATION OF THEIR AIRFIELD DRIVING PRIVILEGES. FURTHERMORE, RUNWAY INCURSIONS MAY RESULT IN FINES AND/OR TERMINATION OF THIS CONTRACT. CONTRACTOR IS SOLELY RESPONSIBLE FOR THESE FINES FOR THEIR FORCES AS WELL AS ANY SUBCONTRACTORS, SUPPLIERS, OR ANY OTHERS EMPLOYED BY THE CONTRACTOR ON THIS PROJECT.

RUNWAY AND TAXIWAY VISUAL AIDS

1. TAXIWAY VISUAL AIDS, INCLUDING ANY TEMPORARY TAXIWAY PAVEMENT MARKING WILL BE AS SHOWN ON THE PLANS AND PROVIDED BY THE CONTRACTOR. MARKINGS SHALL BE IN COMPLIANCE WITH AC 150/5340-1, STANDARDS FOR AIRPORT MARKINGS. LIGHTING SHALL CONFORM TO AC150/5340-30, DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, AC 150/5345-50, SPECIFICATIONS FOR PORTABLE RUNWAY TAXIWAY LIGHTS, AND AC 150/5345-53 AIRPORT LIGHTING CERTIFICATION PROGRAM. SIGNS SHALL CONFORM TO AC 150/5345-44, SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS.

PROGRAM.

MARKING AND SIGNS FOR ACCESS ROUTES

1. HAZARD-MARKING BARRICADES, TRAFFIC CONES, FLASHERS, ETC, SHOULD BE USED: TO IDENTIFY AND DEFINE THE LIMITS OF CONSTRUCTION MAKING THEM VISIBLE TO AIRCRAFT, PERSONNEL, OR VEHICLES; TO IDENTIFY HAZARDS SUCH AS OPEN MANHOLES, SMALL AREAS UNDER REPAIR, STOCKPILED MATERIAL, WASTE AREAS, ETC.; TO PREVENT AIRCRAFT FROM TAXIING ONTO A CLOSED TAXIWAY; AND TO IDENTIFY FAA, AIRPORT, AND NATIONAL WEATHER SERVICE FACILITIES, CABLES, POWER LINES, INSTRUMENT LANDING SYSTEM (ILS) CRITICAL AREAS, AND OTHER SENSITIVE AREAS TO PREVENT DAMAGE, INTERFERENCE, AND FACILITY SHUTDOWN. HAZARDOUS AREAS, IN WHICH NO PART OF AN AIRCRAFT MAY ENTER, SHOULD BE INDICATED BY THE USE OF BARRICADES MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES. THE BARRICADES SHOULD BE SUPPLEMENTED WITH ALTERNATING ORANGE AND WHITE FLAGS, AND INSTALLED SO THAT THEY ARE ALWAYS IN THE EXTENDED POSITION AND PROPERLY ORIENTED. DURING REDUCED VISIBILITY OR NIGHT HOURS, THE BARRICADES SHOULD BE SUPPLEMENTED WITH FLASHING RED LIGHTS. THE INTENSITY OF THE LIGHTS AND SPACING FOR BARRICADES, FLAGS, AND LIGHTS SHOULD BE ADEQUATE TO DELINEATE THE HAZARDOUS AREA WITHOUT AMBIGUITY. THE CONTRACTOR SHALL HAVE A DESIGNATED PERSON ON CALL 24-HOURS A DAY FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES.

MARKING AND LIGHTING

EQUIPMENT

LOW PROFILE BARRICADES

- PROJECT.

- CA TEAM.

- BLAST.

DELINEATING WORK AREAS

TAXIWAY ENDING MARKER

- OPERATIONS.

AC 150/5340-18, STANDARDS FOR AIRPORT SIGN SYSTEMS, AND AC 150/5345-53, AIRPORT LIGHTING CERTIFICATION

2. IF AIRCRAFT OPERATION AREAS MUST BE CLOSED, THE CONTRACTOR SHALL FURNISH AND PLACE PORTABLE BARRICADES ACROSS TAXIWAYS TO KEEP VEHICLES FROM ENTERING ACTIVE OPERATION AREAS AND TO KEEP AIRCRAFT FROM TAXING INTO CONSTRUCTION AREAS. EXCAVATION AND OPEN TRENCHES MAY BE PERMITTED UP TO THE EDGE OF AN APRON PROVIDED THE DROP OFF IS APPROPRIATELY MARKED AND LIGHTED. BARRICADES SHALL BE MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES AND SUPPLEMENTED WITH EITHER FLASHING LIGHTS DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS. LIGHTS SHALL BE BARRICADE TYPE TYPICAL FOR CONSTRUCTION ZONES, AND RED IN COLOR. ALL LIGHTS MUST BE CHECKED NIGHTLY TO ENSURE THAT THEY ARE OPERATING. ANY LIGHTS NOT FUNCTIONING SHALL BE IMMEDIATELY REPLACED.

3. BARRICADES LOCATED WITHIN AIRCRAFT OPERATION AREAS SHALL BE LOW LEVEL AVIATION BARRICADES SPECIFICALLY MANUFACTURED AND DESIGNED FOR SUCH PURPOSE. THEY SHALL BE ALTERNATING ORANGE AND WHITE IN COLOR 10" HIGH AND 96" LONG, MADE OF UV-RESISTANT POLYETHYLENE AS MANUFACTURED BY MULTI-BARRIER (MODEL AR 10X96 HDPE) OR APPROVED EQUAL.

1. MARKINGS AND SIGNS USED ON ACCESS ROUTES SHALL CONFORM TO AC 150/5340-18 AND, TO THE EXTENT PRACTICABLE, WITH THE MOST CURRENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

HAZARD MARKING AND LIGHTING

HAZARD MARKING

1. LOW PROFILE LIGHTS, RETROREFLECTIVE TAXIWAY EDGE MARKERS, AND LOW LEVEL BARRICADES SHALL BE PROVIDED AND ERECTED BY THE CONTRACTOR AS SHOWN ON THE PLANS OR AS DIRECTED BY THE CA TEAM. ALL CONSTRUCTION AREAS, INCLUDING CLOSED TAXIWAYS, SHOULD BE CLEARLY AND VISIBLY SEPARATED FROM ACTIVE AIR OPERATION AREAS. HAZARD AREAS, FACILITIES, CABLES, AND POWER LINES SHOULD ALSO BE CLEARLY IDENTIFIED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONDITION AND VISIBILITY OF ALL MARKERS IDENTIFYING ABOVE-MENTIONED AREAS AND THAT MARKING AND LIGHTING AIDS REMAIN IN PLACE. ALTERNATING ORANGE AND WHITE FLAGLINES, TRAFFIC CONES, OMNIDIRECTIONAL YELLOW FLASHERS, AND/OR SIGNS SHOULD BE USED AS NECESSARY TO CLEARLY SEPARATE ALL CONSTRUCTION/MAINTENANCE AREAS FROM OTHER PARTS OF THE AOA. ALL BARRICADES, TEMPORARY MARKERS, FLAGLINES SUPPORTS, AND OTHER OBJECTS PLACED AND LEFT IN SAFETY AREAS ON ANY OPEN TAXIWAY, OR TAXILANE SHOULD BE AS LOW AS POSSIBLE TO THE GROUND; OF LOW MASS; EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF ITS COMPONENTS; WEIGHTED DOWN OR STURDILY ATTACHED TO THE SURFACE TO PREVENT DISPLACEMENT FROM PROPWASH, JET BLAST, WING VORTEX, OR OTHER SURFACE WIND CURRENTS; AND IF AFFIXED TO THE SURFACE, FRANGIBLE AT GROUND LEVEL.

1. THE CONTRACTOR SHALL PROVIDE LOW PROFILE BARRICADES AS DESCRIBED IN THE PLANS ALONG RUNWAY OR TAXIWAY EDGES WHEREVER OPEN EXCAVATIONS OR IRREGULAR GRADES ARE LEFT WITHIN THE SAFETY AREA OF AN ACTIVE RUNWAY OR TAXIWAY OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES ALONG ACTIVE APRON OR TAXIWAY PAVEMENT SHALL BE PLACED APPROXIMATELY 10 FEET FROM THE EDGE OF THE FULL STRENGTH PAVEMENT, WHERE POSSIBLE, OR AS SHOWN ON THE OPERATIONAL AND PHASING PLANS OR AS DETERMINED BY THE DESIGNER AND AIRPORT OPERATIONS TO DELINEATE THE CONTRACTORS WORK AREAS. GAP BETWEEN BARRICADES SHALL BE NO MORE THAN 5 FEET END TO END. NO GAPS ARE ALLOWED BETWEEN BARRICADES LOCATED ADJACENT TO RUNWAY SAFETY AREAS.

2. THE CONTRACTOR SHALL MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE

3. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED AND/OR REPLACED WHEN DEEMED APPROPRIATE BY THE CA TEAM. THE CONDITION OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY. THE AREAS AROUND ALL BARRICADES SHALL BE CLEANED AT LEAST ONCE EACH WEEK AND THE CONTRACTOR SHALL SWEEP UP ACCUMULATED DEBRIS AND REMOVE IT FROM THE SITE. ALL ACTIVITIES CONDUCTED ADJACENT TO ACTIVE RUNWAYS OR TAXIWAYS SHALL BE COORDINATED WITH THE CA TEAM.

4. BARRICADES SHALL BE AS SHOWN IN DETAILS ON G-082. ALL INCIDENTAL CONNECTORS, SPACERS, SPLICE PLATES, ETC., SHALL BE PAINTED WHITE.

5. ALTERNATE FORMS OF BARRICADES MAY BE PROPOSED BY THE CONTRACTOR WHICH MEET THESE FUNCTIONAL REQUIREMENTS. APPROVALS OF ANY SUCH SUBSTITUTION (IF GRANTED) SHALL BE BY THE AIRPORT OPERATIONS AND THE

6. THE FINAL LOCATION FOR THE BARRICADES SHALL BE ESTABLISHED IN THE FIELD WITH CONCURRENCE FROM THE CA TEAM AND AIRPORT OPERATIONS.

7. THE CONTRACTOR SHALL HAVE REPLACEMENT BARRICADES, LIGHTS AND BATTERIES ON SITE AND SHALL REPLACE BARRICADES, LIGHTS AND/OR BATTERIES WITHIN ONE HOUR OF NOTIFICATION BY THE CA TEAM OR AIRPORT PERSONNEL. CONTRACTOR SHALL PROVIDE THE NAME AND TELEPHONE NUMBER FOR AN ON-CALL REPRESENTATIVE 24 HOURS PER DAY. SEVEN DAYS PER WEEK TO REPLACE BARRICADES, BATTERIES AND INOPERATIVE LIGHTS.

8. RED STEADY BURN LIGHTS SHALL BE PLACED AT THE ENDS AND AT CORNERS OF EACH LINE OF BARRICADES; ALL OTHER LIGHTS ON BARRICADES SHALL BE RED FLASHING..

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER POSITIONING OF ALL BARRICADES.

10. SANDBAGS, WATER AND/OR ANCHORS MAY BE REQUIRED TO HOLD THE BARRICADES IN PLACE WHERE EXPOSED TO JET

11. ALL COSTS ASSOCIATED WITH FURNISHING, PLACEMENT, MAINTENANCE AND SUBSEQUENT RELOCATION OF THE LOW PROFILE BARRICADES ARE INCIDENTAL TO ITEM C-105 AIRFIELD SAFETY AND TRAFFIC CONTROL.

1. SAFETY BARRICADES SHALL BE FURNISHED AND INSTALLED AT THE LOCATIONS AS INDICATED ON THE CONTRACT DOCUMENTS AND/OR DIRECTED BY THE CA TEAM. GENERALLY, SAFETY FENCE WILL BE USED FOR DELINEATING CONTRACTOR STAGING/STORAGE AREAS, PHASE LIMITS AND EXCAVATIONS, TRENCHES, DROPOFFS, ETC. THAT MAY POSE A HAZARD TO ONSITE SAFETY. IN NO INSTANCE SHALL THE USE OF SAFETY FENCE BE ALLOWED WITHIN AN ACTIVE TAXIWAY OBJECT FREE AREA OR WITHIN AN ACTIVE RUNWAYS SAFETY AREA.

2. SAFETY BARRICADES SHALL BE AS SPECIFIED IN SECTION 70-08 OF THE GENERAL PROVISIONS.

1. TAXIWAY ENDING MARKER SHALL BE FURNISHED AND INSTALLED AT THE LOCATIONS AS INDICATED ON THE CONTRACT DOCUMENTS AND/OR DIRECTED BY THE CA TEAM. TAXIWAY ENDING MARKER SHALL MEET THE REQUIREMENTS OF FAA ADVISORY CIRCULAR 150/5345-44J, TYPE L-858C, OR CURRENT EDITION AS OF BID DATE.

2. TAXIWAY ENDING MARKER SHALL BE PLACED AT THE ENTRANCE OF EACH TAXIWAY THAT IS CLOSED TO AIRCRAFT

PROTECTION

- AUTHORIZED BY AIRPORT OPERATION OR CA TEAM.
- BE LEFT UNATTENDED.
- E. ACTIVE NAVAID CRITICAL AREAS.
- EQUIPMENT SHALL BE REMOVED TO APPROVED STAGING AREAS.
- OF THE ADJACENT MOVEMENT AREA:
- A. WITHIN 250 FEET PARALLEL TO A RUNWAY CENTERLINE.
- C. WITHIN 1,000 FEET OF THE END OF A RUNWAY.
- D. ACTIVE NAVAID CRITICAL AREAS.
- RUNWAY OR TAXIWAY OPENING.

OTHER LIMITATIONS ON CONSTRUCTION

- 1. PROHIBITIONS
- CAPS SHALL NOT BE USED WITHIN 1,000 FT OF THE AIRPORT PROPERTY.

PROJECT SURVEY AND LAYOUT

LAYOUT IN ACCORDANCE WITH SPECIFICATION GP-50-07.

CONTRACTOR RESPONSIBILITIES

- RE-COORDINATION WITH THE AIRPORT OPERATOR AND THE FAA IN ADVANCE.
- AIRPORT.
- COMPLIANCE WITH THE CSPP AND SPCD DURING CONSTRUCTION.
- 6. THE CONTRACTOR SHALL SUBMIT APPLICABLE 7460-1 FORMS.

THE CONTRACTOR'S SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) SHALL INCLUDE

A STATEMENT BY THE CONSTRUCTION CONTRACTOR THAT HE/SHE HAS READ AND WILL ABIDE BY THE CSPP. IN ADDITION, THE SPCD MUST INCLUDE ALL SUPPLEMENTAL INFORMATION THAT COULD NOT BE INCLUDED IN THE CSPP PRIOR TO THE CONTRACT AWARD. THE CONTRACTOR STATEMENT SHOULD INCLUDE THE NAME OF THE CONTRACTOR, THE TITLE OF THE PROJECT CSPP, THE APPROVAL DATE OF THE CSPP, AND A REFERENCE TO ANY SUPPLEMENTAL INFORMATION (THAT IS, "I, NAME OF CONTRACTOR, HAVE READ THE TITLE OF PROJECT CSPP, APPROVED ON DATE, AND WILL ABIDE BY IT AS WRITTEN AND WITH THE FOLLOWING ADDITIONS AS NOTE:"). THE SUPPLEMENTAL INFORMATION IN THE SPCD SHOULD BE WRITTEN TO MATCH THE FORMAT OF THE CSPP INDICATING EACH SUBJECT BY SUPPLEMENTAL INFORMATION IS NECESSARY FOR ANY SPECIFIC SUBJECT, THE STATEMENT, "NO SUPPLEMENTAL INFORMATION," SHOULD BE WRITTEN AFTER THE CORRESPONDING SUBJECT TITLE. THE SPCD SHOULD NOT DUPLICATE INFORMATION IN THE CSPP.

1. AT NO TIME SHALL PERSONNEL, VEHICLES OR EQUIPMENT BE LOCATED OR ENTER ANY OF THE FOLLOWING AREAS UNLESS

A. WITHIN 250 FEET PARALLEL TO AN ACTIVE RUNWAY CENTERLINE (TO BE INDICATED ON THE CSPP AND/OR SPCD). B. NO STOCKPILES WILL BE PLACED WITHIN 400 FEET PARALLEL TO AN ACTIVE RUNWAY CENTERLINE NOR WILL EQUIPMENT

C. WITHIN 1,000 FEET OF THE END OF ACTIVE RUNWAYS (EACH END TO BE INDICATED IN THE CSPP AND/OR SPCD) D. WITHIN 93 FEET PARALLEL TO AN ACTIVE TAXIWAY CENTERLINE OPERATING WITH AIRCRAFT WITH OUT PROPER APPROVAL.

F. ON THE MOVEMENT AREA AND/OR ASSOCIATED SAFETY AREAS DURING TIMES OF INCLEMENT WEATHER OR UNUSUAL EVENTS AS DETERMINED BY THE AIRPORT OPERATION. DURING SUCH TIMES ALL WORK IS TO BE SUSPENDED. ALL

2. TRENCHES AND/OR EXCAVATIONS SHALL NOT BE ALLOWED IN THE FOLLOWING AREAS WITHOUT CLOSURE OR RESTRICTION

B. WITHIN 93 FEET PARALLEL TO A TAXIWAY CENTERLINE OPERATING WITH AIRCRAFT

3. EQUIPMENT WITHIN 400 FEET OF AN ACTIVE RUNWAY SHALL BE REMOVED WHEN NOT IN USE.

4. SOIL EROSION MUST BE CONTROLLED TO MAINTAIN RSA/TSA STANDARDS. ANY HOLES OR MOUNDS, BUMPS. OR OTHER FEATURES WITH A GRADE CHANGE GREATER THAN 3 INCHES WITHIN THE RSA OR TSA SHALL BE REPAIRED PRIOR TO

A. OPEN FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED FOR USE BY THE CA TEAM AND A BURN PERMIT HAS BEEN OBTAINED FROM THE ARFF. FLARE POTS SHALL NOT BE USED NEAR AIRCRAFT TURNING AREAS. ELECTRICAL BLASTING

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING THEIR OWN PROJECT SURVEY AND CONSTRUCTION

1. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) TO THE AIRPORT OPERATOR DESCRIBING HOW IT WILL COMPLY WITH THE REQUIREMENTS OF THE CSPP. THE SPCD MUST INCLUDE A CERTIFICATION STATEMENT BY THE CONTRACTOR THAT INDICATES IT UNDERSTANDS THE OPERATIONAL SAFETY REQUIREMENTS OF THE CSPP AND THEY WILL NOT DEVIATE FROM THE APPROVED CSPP AND SPCD UNLESS WRITTEN APPROVAL IS GRANTED BY THE AIRPORT. ANY CONSTRUCTION PRACTICE PROPOSED BY THE CONTRACTOR THAT DOES NOT CONFORM TO THE CSPP AND SPCD MAY IMPACT THE AIRPORT'S OPERATIONAL SAFETY AND WILL REQUIRE A REVISION TO THE CSPP AND SPCD AND

2. THE CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES COPIES OF THE CSPP AND SPCD FOR REFERENCE BY THE AIRPORT OPERATOR AND ITS REPRESENTATIVES, AND BY SUBCONTRACTORS AND CONTRACTOR EMPLOYEES.

3. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION PERSONNEL ARE FAMILIAR WITH SAFETY PROCEDURES AND REGULATIONS ON THE THE AIRPORT. PROVIDE A POINT OF CONTACT WHO WILL COORDINATE AN IMMEDIATE RESPONSE TO CORRECT ANY CONSTRUCTION-RELATED ACTIVITY THAT MAY ADVERSELY AFFECT THE OPERATIONAL SAFETY OF THE

4. THE CONTRACTOR SHALL IDENTIFY IN THE SPCD THE CONTRACTOR'S ON-SITE EMPLOYEES RESPONSIBLE FOR MONITORING

5. THE CONTRACTOR SHALL CONDUCT INSPECTIONS TO ENSURE CONSTRUCTION PERSONNEL COMPLY WITH THE CSPP AND SPCD AND THAT THERE ARE NO ALTERED CONSTRUCTION ACTIVITIES THAT COULD CREATE POTENTIAL SAFETY HAZARDS.



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SHEET CONTENTS CONSTRUCTION SAFETY PHAING PLAN NOTES

SHEET NO.





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CONSTRUCTION PHASING DIAGRAM N.T.S.

MOBILIZATION PHASE (60 CALENDAR DAYS)

THE MOBILIZATION PHASE SHALL BEGIN IMMEDIATELY AFTER THE MOBILIZATION NOTICE TO PROCEED IS ISSUED BY THE AIRPORT. DURING THIS PHASE OF THE PROJECT, NO WORK SHALL BE CONDUCTED THAT RESTRICTS AIRPORT OPERATIONS UNLESS AUTHORIZED BY THE AIRPORT. NOTICE TO PROCEED WITH SUBSEQUENT SCHEDULES MAY BE GIVEN DURING MOBILIZATION AT THE AIRPORTS DISCRETION.

MOBILIZATION WORK SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

- 1. SUBMITTALS.
- A. PROCESSING OF REQUIRED MATERIALS/EQUIPMENT SUBMITTALS AND THE CONTRACTOR'S PROPOSED WORK SCHEDULE, INCLUDING REQUESTED PAVEMENT CLOSURE DATES.
- B. ALL PRE-QUALIFICATION TESTING, REVIEW, AND APPROVALS.
- C. MATERIAL DELIVERY SCHEDULE, INCLUDING MATERIAL DELIVERY DATE TO JOB SITE OR TO THE CONTRACTOR'S YARD.
- 2. DURING MOBILIZATION, THE CONTRACTOR SHALL BE ALLOWED TO PERFORM LAYOUT, STAKING, AND OTHER PREP WORK AS APPROVED BY THE AIRPORT.
- 3. IT IS THE AIRPORT'S INTENT THAT ALL PRELIMINARY WORK BE COMPLETED DURING THE MOBILIZATION PHASE TO ENSURE CONSTRUCTION CAN BE PURSUED DILIGENTLY AND WITHOUT UNNECESSARY DELAY. (THE AIRPORT RESERVES THE RIGHT TO WAIVE CERTAIN ELEMENTS OF MOBILIZATION AND ISSUE A NOTICE TO PROCEED WITH CONSTRUCTION AT ITS DISCRETION OR UPON THE CONTRACTOR'S REQUEST.) SCHEDULE DATE SHALL NOT BE CHANGED, ONCE ESTABLISHED, UNLESS COORDINATION WITH THE CA TEAM AND FINAL APPROVAL OF THE AIRPORT.

GENERAL NOTES:

- NIGHT WORK IS GENERALLY DEFINED AS WORK DONE FROM 12:00 AM TO 5:30 AM. IN WORK AREAS SUBJECTED TO COMMERCIAL FLIGHT RESTRICTIONS. NIGHT WORK MUST BE COMPLETED THIRTY (30) MINUTES PRIOR TO THE FIRST DEPARTING COMMERCIAL FLIGHT.
- 2. HOURS OF AIR TRAFFIC CONTROL TOWER OPERATIONS ARE FROM 6:45AM TO 11:00PM LOCAL TIME.
- SEE SPECIAL PROVISIONS FOR DETAILS ON CONSTRUCTION LIMITATIONS. CLOSURE OF EXISTING AIRFIELD PAVEMENTS WILL BE ALLOWED ONLY ONCE THE FOLLOWING CONDITIONS ARE MET:
- A. 48-HOUR ADVANCE NOTIFICATION, VERIFYING THAT A PREVIOUSLY APPROVED CLOSURE PERIOD WILL BE AS SCHEDULED.
- B. A CLOSURE SCHEDULE FOR EACH AREA OF CONSTRUCTION HAS BEEN SUBMITTED TO THE ENGINEER FOR REVIEW AND HAS BEEN APPROVED. THESE SCHEDULES SHALL DETAIL TEMPORARY ACCESS ROUTES (IF APPLICABLE), SAFETY MEASURES, AND TIME LIMITS OF CLOSURE FOR EACH AREA. FAILURE TO OPEN AIRFIELD PAVEMENTS WITHIN THE APPROVED TIME LIMITS MAY RESULT IN LIQUIDATED DAMAGES.
- 4. THE AUGUSTA AIRPORT EXPERIENCES HIGH TRAFFIC VOLUMES DURING THE MASTERS WEEK THAT OCCURS THE FIRST OR SECOND WEEK OF APRIL EVERY YEAR. THE BIDDER IS ADVISED THAT A TEMPORARY SUSPENSION OF WORK WILL OCCUR DURING THIS PERIOD OF TIME. (APRIL 4TH THROUGH APRIL 15TH, 2025)
- ANY ADDITIONAL LOW-PROFILE BARRICADES (INCLUDING SUPPLEMENTARY LIGHTS) NEEDED FOR PROPER EXECUTION OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN ALL LIGHTS IN WORKING ORDER FOR THE DURATION OF THE PROJECT.

AUGUSTA RICHMOND COUNTY GENERAL NOTES:

- REQUIRED TO CONTROL EROSION.
- STANDARDS AND SPECIFICATIONS.
- DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED.
- OFFICE IS (706) 821-1706.
- OF PUBLIC WORKS AND ENGINEERING FOR PAYMENT.
- COMMENCEMENT IS GIVEN.

REQUIREMENTS FOR AIRPORT SECURITY, SAFETY AND CONTRACTOR **OPERATIONS:**

- AND PHASING PLAN (CSPP).
- 2. RUNWAY 17-35 AND RUNWAY 8-26, ASSOCIATED TAXIWAYS, AND THEIR SAFETY AREAS SHALL REMAIN OPERATIONAL AT ALL TIMES UNLESS APPROVED BY THE AIRPORT.
- 3. CONTRACTOR SHALL NOT ENTER ANY ACTIVE SAFETY AREAS OR OBJECT FREE AREAS WITHOUT AUTHORIZATION FROM THE AIRPORT.
- 4. A RUNWAY SAFETY AREA (RSA) AND OBSTACLE FREE ZONE (OFZ) EXISTS AROUND EACH RUNWAY WHICH LIMITS CONSTRUCTION ACTIVITIES ADJACENT TO OPERATIONAL RUNWAYS. CONSTRUCTION PERSONNEL AND EQUIPMENT SHALL NOT CROSS RSAs OR OFZs WITHOUT AIRPORT AUTHORIZATION.
- CLEAR OF PERSONNEL, MATERIAL AND EQUIPMENT AT ALL TIMES.
- CLEAR OF PERSONNEL, MATERIALS, AND EQUIPMENT AT ALL TIMES.
- DROP IS ALLOWED.



- 1. MAINTENANCE OF LOW-PROFILE BARRICADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE DURATION OF THE PROJECT
- 2. GAPS IN BARRICADES SHALL NOT EXCEED 5-FEET.

LOW-PROFILE BARRICADE DETAIL	A	l
SCALE: NTS	G-082	



SCALE: NTS

\G-082

G-082

1. ALL DRAINAGE EASEMENTS AND DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS

2. ALL CONSTRUCTION WITHIN AUGUSTA RIGHTS-OF WAY SHALL CONFORM TO AUGUSTA, GEORGIA

3. ALL SILT BARRIERS MUST BE PLACED IMMEDIATELY FOLLOWING CLEARING. NO GRADING SHALL BE

4. CONTRACTOR SHALL CONTACT THE INSPECTION DIVISION OF THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO STARTING WORK ON THE PROJECT. THE PHONE NUMBER FOR THIS

5. THE COST OF INSPECTION BY THE CITY OF AUGUSTA-RICHMOND COUNTY'S DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, BEFORE OR AFTER REGULAR WORKING HOURS, ON SATURDAYS, SUNDAYS, OR LEGAL HOLIDAYS, SHALL BE PAID FOR BY THE INDIVIDUAL REQUESTING THE INSPECTION AT A RATE OF $1\frac{1}{2}$ TIMES THE REGULAR SALARY PER HOUR OF THE INSPECTOR PLUS 7.65% FROM THE EMPLOYER'S FICA/MEDICARE MATCH. APPROVAL FOR THE INSPECTION OUTSIDE OF NORMAL WORKING HOURS SHALL BE OBTAINED FROM THE CITY ENGINEER 48-HOURS IN ADVANCE. PRIOR TO THE COMMENCEMENT OF WORK REQUIRING INSPECTION OUTSIDE OF NORMAL WORKING HOURS, THE INDIVIDUAL REQUESTING THE INSPECTION SHALL SIGN A FORM WHICH IS FURNISHED BY THE DEPARTMENT OF PUBLIC WORK AND ENGINEERING AGREEING TO PAY THE OVERTIME. THE INDIVIDUAL REQUESTING THE INSPECTION SHALL SIGN A FORM WHICH IS FURNISHED BY THE DEPARTMENT OF PUBLIC WORK AND ENGINEERING AGREEING TO PAY THE OVERTIME. THE INDIVIDUAL REQUESTING THE INSPECTION WILL BE BILLED BY THE DEPARTMENT

6. A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION. THIS MEETING SHALL BE SCHEDULED WITH THE DEPARTMENT OF PUBLIC WORKS AT THE TIME THE NOTIFICATION OF WORK

1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE SPECIFICATION GENERAL PROVISIONS, SAFETY, AIRPORT SECURITY, AND OPERATING REGULATIONS AND THE CONSTRUCTION SAFETY

5. THE RUNWAY 17-35 SAFETY AREA (RSA) IS 250-FEET EACH SIDE OF THE RUNWAY CENTERLINE AND 1000 FEET BEYOND THE RUNWAY ENDS. THE RUNWAY 8-26 SAFETY AREA (RSA) IS 75-FEET EACH SIDE OF THE RUNWAY CENTERLINE AND 300-FEET BEYOND THE RUNWAY ENDS. IT SHALL REMAIN

6. THE RUNWAY 17-35 OBSTACLE FREE ZONE (OFZ) IS 400-FEET EACH SIDE OF CENTERLINE AND 1000-FEET BEYOND THE RUNWAY ENDS. THE RUNWAY 8-26 OBSTACLE FREE ZONE (OFZ) IS 250-FEET EACH SIDE OF CENTERLINE AND 300-FEET BEYOND THE RUNWAY ENDS. IT SHALL REMAIN

7. IN TRANSITIONS FROM PAVED TO UNPAVED AREAS, A TEMPORARY 3 INCH MAXIMUM VERTICAL

8. DAILY SAFETY INSPECTIONS SHALL BE PERFORMED AS REQUIRED IN THE CSPP.





FUEL FARM



ARFF

CONTRACTOR SHALL ACCESS AIRSIDE WORK

FAA -

AREA VIA GATE P13

HANGAR 1

HANGAR 2

HANGAR 3

- FAA

STANDARD AERO

FACILITY





NOTES:

WORK SCHEDULE PHASING

MOBILIZATION PHASE: 60 CALENDAR DAYS

WORK AREA 2 (1 CALENDAR DAYS)

- 1. CONTRACT SHALL FOLLOW PHASING PLAN PROVIDED IN CONSTRUCTION CSPP. CONTRACTOR SHALL ADD PROJECT SPECIFIC DETAILS SUCH AS DATES, ANTICIPATED NUMBER OF CALENDAR DAYS USED, AND ANY OTHER ADDITIONS/MODIFICATION FOR APPROVAL BY THE AIRPORT PRIOR TO MOBILIZATION.
- 2. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY HAUL ROUTES NEEDED FOR EXECUTION OF THE WORK. UPON COMPLETION, CONTRACTOR SHALL REMOVE TEMPORARY HAUL ROUTES AND RESTORE GROUND TO ORIGINAL CONDITION BY GRADING, SEEDING, AND MULCHING. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK.
- 3. ACCESS TO RUNWAYS AND TAXIWAYS IS PROHIBITED WITHOUT PRIOR COORDINATION WITH THE ENGINEER AND THE AIRPORT.
- 4. CONTRACTOR STAGING AREA ACCESS GATES ARE IN PLACE FROM PREVIOUSLY COMPLETED PROJECTS. CONTRACTOR SHALL REUSE THE EXISTING AREA AND ACCESS POINTS. NEW LOCK AND KEYS SHALL BE PROVIDED BY THE CONTRACTOR. AT THE CONCLUSION OF THE PROJECT THE AREA SHALL BE RETURNED TO THE CONDITION IT WAS AT THE BEGINNING OF THE PROJECT FOR NO ADDITIONAL COST.
- 5. MAX EQUIPMENT HEIGHT IN WORK AREAS ARE 25 FT. UNLESS APPROVED BY AIRPORT OR ENGINEER. IF ANYTHING HIGHER THAN THIS IS ANTICIPATED THE ENGINEER SHALL BE NOTIFIED AND A 7460 SHALL BE COMPLETED.
- 6. ALL WORK WITHIN THE SAFETY AREAS SHALL BE DONE ON A PULL BACK BASIS. CONTRACTOR SHALL MAINTAIN RADIO COMMUNICATION WITH AIR TRAFFIC CONTROL TOWER AT ALL TIMES.



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ENLARGED CONTRACTOR STAGING AREA PLAN	
SCALE: 1" = 80'	C-031





NOTES:

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- 1. USE 36" APPROVED FABRIC, WITH OAK OR STEEL POSTS. 2. P-FACTOR MUST BE LESS THAN 0.045 IAW MANUAL FOR EROSION AND
- SEDIMENT CONTROL IN GEORGIA, 6TH EDITION.
- FOR WOOD POSTS, CONNECT WITH A MINIMUM OF 5 EACH, 7 GAUGE STAPLES 3/4" WIDE AND 5/2" LONG, OR OTHER APPROVED METHOD.
 AT OVERLAPS, USE 18" MINIMUM OR WRAP ENDS TOGETHER AROUND A SINGLE POST TO FORM A CONTINUOUS BARRIER.



NOTE:

CONCRETE WASHOUT AREA SHALL BE ESTABLISHED ON CONTRACTOR STAGING AREA. COST OF THE WASHOUT AREA IS INCIDENTAL TO MOBILIZATION.





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SHEET CONTENTS EROSION CONTROL DETAILS

C-031

SHEET NO.



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EXISTING 25PR #19 CONTROL CABLE TO ATCT TO REMAIN IN PLACE AND UNDISTURBED

EXISTING 4" DUCT TO REMAIN

EXISTING 25PR #19 CONTROL CABLE TO BE DISCONNECTED FROM GS SHELTER AND PRESERVED FOR RECONNECTION - SEE NOTE 4

> EXISTING GLIDESLOPE SHELTER TO BE DISCONNECTED AND REMOVED. FOUNDATION TO REMAIN - SEE NOTES 3 & 8





1. CONTRACTOR TO COORDINATE CLOSELY WITH THE FAA RESIDENT ENGINEER (RE) ON THE DISCONNECTING, REMOVING, AND SALVAGING/DISPOSING OF ALL FAA OWNED EQUIPMENT.

2. CONTRACTOR SHALL DISCONNECT, REMOVE, AND SALVAGE EXISTING GLIDESLOPE ANTENNA TOWER. CONTRACTOR SHALL UTILIZE EXISTING CRATES FROM NEW TOWER TO PACAKGE UP AND TURN OVER TO THE FAA FOR SHIPMENT. FAA WILL BE RESPONSIBLE FOR SHIPPING OF EXISTING TOWER. ANY EXISTING MATERIAL DEEMED NOT SALVAGEABLE BY THE FAA SHALL BE DISPOSED OFF OF-SITE BY THE CONTRACTOR. CONCRETE FOUNDATIONS TO REMAIN IN PLACE FOR RE-INSTALLATION OF THE NEW TOWER SYSTEM.

3. DISCONNECT, REMOVE, AND SALVAGE EXISTING GLIDESLOPE SHELTER AND COMPONENTS. CONTRACTOR SHALL COORDINATE CLOSELY WITH THE FAA'S RE ON ITEMS TO BE DISCONNECTED AND SALVAGED. ALL SALVAGED ITEMS SHALL BE TURNED OVER TO THE FAA AT A LOCATION DETERMINED BY THE RE. ALL NON-SALVAGED ITEMS SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE SHELTER FOUNDATION IS TO REMAIN IN PLACE FOR INSTALLATION OF NEW GLIDESLOPE SHELTER. CONTRACTOR SHALL COORDINATE CLOSELY WITH THE FAA RE ON NOT DAMAGING EXISTING MOUNTING PROVISIONS FOR THE NEW SHELTER.

4. EXISTING POWER AND COMMUNICATIONS CABLING TO REMAIN IN PLACE AS SHOWN, CONTRACTOR SHALL COORDINATE WITH FAA RE ON DISCONNECTING AND PROTECTING ANY EXISTING FAA LINES AS REQUIRED BY THE REMOVAL OF THE GLIDESLOPE SHELTER. THE CONTRACTOR SHALL PULL BACK EXISTING CABLES AND PROTECT DURING CONSTRUCTION. UPON INSTALLATION OF SHELTER, THE CONTRACTOR SHALL PULL CABLES BACK THROUGH THE CONDUIT TO THE INTERIOR OF THE SHELTER. FAA SHALL BE RESPONSIBLE FOR ALL TERMINATIONS. CONTRACTOR SHALL VERIFY NEAREST HANDHOLE FOR PULLING BACK EXISTING LINES.

5. COORDINATE WITH LOCAL UTILITY ON DISABLING ELECTRICAL SERVICE TO EXISTING GLIDESLOPE SHELTER DURING CONSTRUCTION. ELECTRICAL SERVICE SHALL BE ENERGIZED UPON COMPLETION OF CONSTRUCTION.

6. EXISTING POWER CONDUCTORS FROM EXISTING GLIDESLOPE DISCONNECT SWITCH TO THE EXISTING SHELTER PANELBOARD SHALL BE DISCONNECTED AND REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL VERIFY ACTUAL ROUTING AND REPORT TO THE RE IF ROUTING AND CONNECTIONS VARY FROM WHAT IS SHOWN. OTHER ELECTRICAL SERVICES AND CONDUCTORS ARE TO REMAIN IN PLACE UNLESS DIRECTED BY THE ENGINEER.

7. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION AND MAINTAIN LOCATES DURING THE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE CLOSELY WITH THE FAA ON LOCATING ALL FAA'S OWNED UNDERGROUND UTILITIES.

8. ALL UNDERGROUND GROUNDING AND LIGHTNING PROTECTION SHALL BE DISCONNECTED AND REMOVED FOR THE GLIDESLOPE SHELTER AND GLIDESLOPE TOWER. CONTRACTOR TO PROVIDE NEW AS INDICATED IN THE PROPOSED LAYOUT AND DETAILS.

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SHEET CONTENTS ELECTRICAL GLIDESLOPE DEMOLITION PLAN

E-102

SHEET NO.

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SHEET NO.		<u>っ</u> つ	1	

EXISTING 25PR #19 CONTROL CABLE TO ATCT TO REMAIN IN PLACE AND UNDISTURBED

EXISTING 4" DUCT TO REMAIN

PULL BACK EXISTING 25PR #19 CONTROL CABLE FROM NEAREST JUNCTION BOX TO NEW SHELTER. SEE NOTE 7.

1. CONTRACTOR SHALL COORDINATE CLOSELY WITH THE FAA RESIDENT ENGINEER (RE) DURING THE INSTALLATION AND RECONNECTION OF NEW FAA SYSTEM AND EXISTING FAA SYSTEMS.

CONTRACTOR TO INSTALL FAA PROVIDED GLIDESLOPE TOWER ON EXISTING FOUNDATION. CONTRACTOR SHALL VERIFY EXACT MOUNTING REQUIREMENTS NEEDED UPON RECEIVING OF THE TOWER. ANY DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE FAA'S RE. CONTRACTOR SHALL PROVIDE AND INSTALL MISCELLANEOUS COMPONENTS AS INDICATED IN THE FAA DETAILS.

CONTRACTOR TO INSTALL FAA PROVIDED GLIDESLOPE SHELTER ON EXISTING FOUNDATION. CONTRACTOR SHALL VERIFY EXACT MOUNTING REQUIREMENTS NEEDED UPON RECEIVING OF THE SHELTER. ANY DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE FAA'S RE. CONTRACTOR SHALL PROVIDE AND INSTALL MISCELLANEOUS COMPONENTS AS INDICATED IN THE FAA DETAILS.

4. ALL GROUNDING AND LIGHTNING PROTECTION SYSTEM FOR THE GLIDESLOPE SHELTER AND TOWER IS TO BE NEW AND INSTALLED BY THE CONTRACTOR. THE FAA IS TO PROVIDE THE ABOVE GROUND SHELTER LIGHTNING PROTECTION MATERIAL. THE CONTRACTOR SHALL PROVIDE ALL REMAINING MATERIAL AND EQUIPMENT FOR ALL UNDERGROUND LIGHTNING AND GROUNDING SYSTEM ALONG WITH THE GLIDESLOPE TOWER ABOVE GROUND SYSTEM. LIGHTNING AND GROUNDING SYSTEMS TO BE INSTALLED MEETING FAA DETAILS.

5. WHEN INSTALLING NEW SHELTER ON EXISTING FOUNDATION, CONDUITS SHALL BE REALIGNED AND ROUTED INTO THE INTERIOR INTERFACE BOX. EXPOSE EXISTING CONDUIT AS NEEDED TO ACHIEVE THE REALIGNMENT. ANY NEW CONDUIT SECTIONS, ELBOWS, CONNECTORS SHALL BE INCLUDED BY THE CONTRACTOR. COORDINATE WITH THE FAA RE TO DETERMINE WHAT ROUTING AND ALIGNMENT CHANGES THAT ARE NEEDED.

6. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION AND MAINTAIN LOCATES DURING THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE CLOSELY WITH THE FAA ON LOCATING ALL FAA'S OWNED UNDERGROUND UTILITIES.

7. CONTRACTOR SHALL PULL BACK EXISTING CABLES THROUGH EXISTING CONDUIT TO WITHIN THE NEW GLIDESLOPE SHELTER. COORDINATE WITH FAA ON ROUTING WITHIN THE SHELTER. ALL CONNECTIONS/TERMINATIONS ARE TO BE DONE BY THE FAA.

8. CONTRACTOR TO PROVIDE AND INSTALL NEW POWER CONDUCTORS FROM EXISTING DISCONNECT SWITCH LOCATED ON SERVICE RACK ADJACENT TO THE GLIDESLOPE SHELTER. CONDUCTORS SHALL CONSIST OF 3-#2 AND 1-#6 GROUND, MEETING FAA AND NEC REQUIREMENTS.

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M&H NO.:	0119700-221073.07
DATE:	AUGUST 16, 2024
DESIGNED BY:	CGH
DRAWN BY:	CMS
CHECKED BY:	CGH
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SHEET CONTENTS ELECTRICAL GLIDESLOPE LAYOUT PLAN

SHEET NO.

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E-202

E-601

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NOTES:

1. SEE PROPOSED LAYOUT SHEETS AND DETAILS FOR ADDITIONAL INFORMATION

- 2. ONE-LINE DIAGRAM IS BASED OFF EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY SERVICE CONNECTION ON THE GLIDESLOPE SHELTER PRIOR TO DISCONNECTING. CONTRACTOR TO COORDINATE WITH THE FAA RE PRIOR TO DISCONNECTING TO MAINTAIN SERVICE TO ANY EQUIPMENT THAT IS REQUIRED TO REMAIN IN OPERATION.
- 3. ALL EXISTING EQUIPMENT THAT IS REMAINING IN PLACE SHALL BE RECONNECTED UP TO THE EXISTING SERVICE.
- 4. COORDINATE WITH THE FAA RE AND UTILITY PROVIDER ON DISCONNECTING THE ELECTRICAL SERVICE AND RE-ENERGIZING SERVICE TO THE NEW GLIDESLOPE SHELTER.
- 5. COMMUNICATION CABLE DESIGNATED TO BE DISCONNECTED, PULLED BACK, AND REINSTALLED AS SHOWN ON THE LAYOUT SHEETS ARE NOT SHOWN FOR CLARITY. INSTALLATION TO BE DONE BY THE CONTRACTOR WITH THE FAA PERFORMING ALL CONNECTIONS.

DISCONNECT AND REMOVE EXISTING CONDUCTORS AND INSTALL NEW 3-#2 AWG WITH #6 GROUND IN EXISTING CONDUIT

SERVICE CONDUCTORS

1 GLIDESLOPE SINGLE LINE DIAGRAM

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M&H NO.: 0119700-221073.01 DATE: DESIGNED BY: XXX DRAWN BY: XXX CHECKED BY: XXX

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SHEET CONTENTS ELECTRICAL DETAILS

E-602

SHEET NO.

 1. ALL CONCRETE SHALL DEVELOP 3000 PSI IN TWENTY EIGHT (28) DAYS WITH A MAXIMUM SLUMP OF 3 INCHES. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCI CONCRETE SHALL NOT BE LOADED FOR AT LEAST SEVEN (7) DAYS AFTER CONCRETE PLACEMENT. 2. IF FILL OR GRADING IS REQUIRED IT SHALL BE BUILT UP IN LAYERS NOT EXCEEDING 6 INCHES. EACH LAYER SHALL BE THOROUGHLY TAMPED AND
2. IF FILL OR GRADING IS REQUIRED IT SHALL BE BUILT UP IN LAYERS NOT EXCEEDING 6 INCHES. EACH LAYER SHALL BE THOROUGHLY TAMPED AND
COMPACIED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT.
GRADING OF ROCK AND SOIL SHALL BE SO THAT ALL DRAINAGE IS AWAY FROM FOUNDATION. MAINTAIN A DRAINAGE SLOPE OF 1/8" PER FOOT.
3. CONTRACTOR TO TERMINATE POWER OF ANTENNA ARRAY ON OBSTRUCTION LIGHT TERMINAL. BLOCK IN THE INTERFACE BOX ASSEMBLY.
4. GRADE BEAM FOUNDATIONS SHALL BE HORIZONTALLY LEVEL WITH EACH OTH WITHIN 1/4 INCH. INDIVIDUAL GRADE BEAM SURFACES SHALL BE LEVEL WITHIN 1/8 INCH. GRADE BEAM SURFACES SHALL BE TROWEL FINISHED.
5. THE TOP OF THE STOOP OR THE HIGHEST STEP SHALL BE LEVEL WITH THE FINISHED FLOOR INSIDE THE BUILDING. SLOPE THE STOOP 1 PERCENT AWAY FROM THE SHELTER. BROOM FINISH THE STOOP. CONCRETE STEPS 5' LONG I 9" HIGH BY 11" WIDE SHALL BE INSTALLED WHERE THE TOP OF STOOP IS MORE THAN 11" ABOVE THE EXISTING GRADE.
6. THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED STEEL PER ASTM A153 AND A325. EXPOSED THREADS SHALL BE CLEAN AND LUBRICATED. TIGHTEN THE NUT TO 45 FT-LBS MINIMUM. THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE CONTRACTOR FURNISHED.
7. THE EQUIPMENT SHELTER AND TIE-DOWN PLATES ARE GOVERNMENT FURNISI MATERIAL. LIFTING RINGS ARE PROVIDED IN THE SHELTER SKID CHANNELS FO CRANE LOADING AND OFF-LOADING. SPREADER BARS SHALL BE USED BETWE THE LIFTING CABLES. PROVIDE ADEQUATELY SIZED EQUIPMENT TO LIFT AND LOAD, TRANSPORT, AND LIFT AND OFF-LOAD THE SHELTER. THE USE OF A FORKLIFT FOR THIS PURPOSE WILL NOT BE PERMITTED. ALL FEES, PERMITS, RENTALS, ETC, FOR TRANSPORTATION SHALL BE INCLUDED IN THE BID. INSPE THE SHELTER AND CONTENTS PRIOR TO BEGINNING THE PROCESS OF TRANSPORTING THE SHELTER. NOTIFY THE RE OF ANY DAMAGE TO SHELTER PRIOR TO BEGINNING THE PROCESS OF TRANSPORTING THE SHELTER. CONF THAT ALL SHELTER CONTENTS ARE SECURED PRIOR TO BEGINNING THE PROCESS OF TRANSPORTING. ONCE THE PROCESS OF TRANSPORTING THE SHELTER HAS BEGUN, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FO THE SHELTER AND ITS CONTENTS UNTIL FINAL ACCEPTANCE BY THE FAA.
8. AFTER ANCHORING THE SHELTER, CONTRACTOR SHALL INSTALL THE LED LIGH AND THE LIGHT FIXTURE COVERS. INSTALL THE AIR CONDITIONER IN THE WAL SLEEVE AND REMOVE THE PLYWOOD FROM THE AIR INTAKE LOUVER.
9. THE SHELTER SHALL BE ANCHORED WITH CONTRACTOR FURNISHED GALVANI NUTS AND WITH GOVERNMENT FURNISHED TIE-DOWN PLATES.
0. CONTRACTOR SHALL THOROUGHLY PRESSURE WASH AND WAX ENTIRE EXTERIOR OF NEW FIBERGLASS SHELTER AFTER INSTALLATION.
1. SHELTER AND INTERFACE BOX IS GFM. A/C IS GFM. SEE ABOVE NOTES FOR SPECIFIC ITEMS INCLUDED WITH SHELTER FOR SETTING SHELTER. ALL OTHEF ITEMS INCLUDING CONDUIT IS FURNISHED BY THE CONTRACTOR.
12. CONTRACTOR TO INSTALL LIGHTNING PROTECTION SYSTEM AND CONNECT UP TO EXISTING UNDERGROUND LIGHTNING/GROUNDING SYSTEM. CONTRACTOR INSTALL INTERFACE BOX ALONG WITH CONDUIT CONNECTIONS FROM EXISTIN CONDUIT INTO THE NEW SHELTER. COORDINATE WITH THE FAA'S RE ON COND ROUTING AND INSTALLATION OF LOOSE EQUIPMENT ON THE EXTERIOR OF THI SHELTER.
13. REFER TO THE APPENDIX FOR THE LOCALIZER SHELTER SUBMITTAL FOR WHA WAS ORDERED AND BEING PROVIDED BY THE FAA. THE DRAWINGS IN THE APPENDIX SHOW ADDITIONAL DETAILS IN EQUIPMENT PLACEMENT AND LAYOU OF THE INTERIOR ALONG WITH THE SHELTER EXTERIOR LAYOUT.
DESIGN LOADS 400 PSF - LIVE FLOOR 70 PSF - LIVE ROOF 150 MPH - WIND ZONE 4 - SEISMIC
ATO - TECHNICAL OPERATIONS EASTERN SERVICE
RUNWAY 35 DUPONT STANDARD SHELTER 10 X 16 (L SIDE) FOUNDATION DETAILS AND FI FVATIONS
AUGUSTA AUGUSTA REGIONAL AIRPORT

1604662

MGR: ENGINEERING - CENTER A

02/19/2022

THIS DRAWING PRODUCED ON ASO REGION MICROSTATION SYSTEM

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PROJECT ENGINEER

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ISSUED FOR: CONSTRUC

M: mco-1604662-c101.

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* A/R CONN., RF, 1/2" HELIAX, FEMALE * * A/R CONNECTOR, RF, 1/2" HELIAX, MALE * * A/R CONNECTOR, RF, 1/4" HELIAX, MALE *	* * *	A/R A/R 1	#12-2 W/ GND #6 BARE COPPER 1/4" SWEEPING ELBOW, CND	* * *
* A/R 1/4" HELIAX COAX * A/R 1/2" HELIAX COAX * A/R 1/2" HELIAX COAX *	* * *	1 A/R 1	1/4" COUPLING, CND CND, 1/4" 1/4" ADAPTER CND	* * *
#14 AWG TELCO CABLE	*		1/4" LOCKNUT, CND 1/4" BUSHING, CND	* *
PARTS LIST	*	1	3, SWEEPING ELBOW, CND 3" COUPLING, CND	* * *
	* 75 74 73 72 68 67 66		3" ADAPTER, CND 3" LOCKNUT, CND 3" BUSHING, CND CABLE ASSY, RF CABLE ASSY, RF CABLE ASSY, RF INSTL DWG, ANT INSTL, 14E, DF LOC KIT, RACEWAY 14 ELEMENT HELIAX CABLE SET, 14 EL LOC	* * 932616-0004 932616-0003 932616-0002 932616-0001 069720-0001-ID 069552-0001 069589-0101
$(21) \qquad \qquad$	657654321098765444444444444444444444444444444444444	1 26 60 18 60 26 86 26 86 20 350 30 60 24	HELIAX CABLE SET, 14 EL LOC NUT, HEX, $\#10-32$ NUT, HEX, $5/16"-18$ NUT, HEX, $1/4"-20$ WASHER, SPLIT, $5/16"$ WASHER, SPLIT, $1/4"$, $1/2"$ OD WASHER, SPLIT, $\#10$ WASHER, FLAT, $5/16"$ WASHER, FLAT, $\#10$ WASHER, FLAT, $\#8$ BOLT, HEX, $1/4"-20 \times 3/4"$ BOLT, HEX, $5/16"-18 \times 1-1/2"$ SCREW, MACH, $1/4"-20 \times 1"$, PHPHMS SCREW, MACH, $1/4"-20 \times 1''$, PHFHMS	069589-0001 930001-0304 930000-2314 930000-2254 926001-0083 926001-0082 926001-0081 925001-0007 925000-0812 925000-0807 919065-0005 919063-0032 915016-0083 916012-0272
4 4 4 4 4 4 4 4 4 4 4 4 4 4	43 42 41 38 30 27 22 22 20 18 17 15	4 16 334 28 2 4 17 14 14 14 1 238 146 1 2	SCREW, MACH, 8–32 X 5/8", PHPHMS SCREW, MACH, 8–32 X 1/2", PHPHMS CONN, ADPTR, ELEC, N/F TO N/M, 90" NUT, PLATE, RACEWAY ADAPTER GASKET, SILICONE RUBBER, 3/32" BRACKET, OB LIGHT, SUPPORT SPLICE, CNDCT, SPLIT BOLTS SUPPORT ASSY, FRONT, LPA ASSY, ANTENNA SUPPORT, REAR, LPD INSUL SLVG, ELEC, 0.75" MIN CABLE, ELEC, TYPE UF–B, 250' WIRE, ELEC, 200', #6, BARE COPPER SPEED NUT, U TYPE, #8–32 NUT, SELF–LOCKING, HEX, #8–32 BRACKET, MTG, DU/CU BOX BRACKET, MTG, DU/CU BOX OBSTRUCTION LIGHT, DUAL, W/ LED LAMPS, 120VAC	$\begin{array}{c} 290207-0001\\ 915014-0046\\ 915014-0045\\ 229007-0012\\ 300697-0001\\ 265050-0001\\ 290206-0001\\ 290206-0001\\ 120574-0001\\ 120574-0001\\ 120693-0001\\ 114C50-0004\\ 111449-0002\\ 110041-2001\\ 100999-0001\\ 100482-0008\\ 290217-0002\\ 290217-0002\\ 290217-0001\\ 035C30-0001 \end{array}$
(NOTE 10) 1-1/4" CONDUIT* 1-1/4" HELIAX COAX (DF)* 2-1/4" HELIAX COAX (SF)* 1-1/4" HELIAX SPARE, OPTIONAL* 12 CONDUCTOR (6PR) SHIELD #19 AWG TELCO CABLE* 4-1/2" HELIAX COAX (DF)* 2-1/2" HELIAX COAX (DF)* 2-1/2" HELIAX COAX (SF)* 1-1/2" HELIAX SPARE, OPTIONAL* 55 DETAIL A DISTRIBUTION UNIT ASSY	13 12 11 10 9 8 7 6 5 4 3 2 1	4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HANGER-PIPE/CONDUIT, 3/4 SIZE BOX, CONN, ELEC, NON-INSUL, 3/4 GASKET, UNILET, 3/4 SIZE CONDUIT, 3/4 SIZE (2.5 FOOT) CONDUIT, 3/4 SIZE (4 FOOT) COV, CND OUTLET, 3/4" AL UNILET CVF CND OUTLET, 3/4" 3-HOLE, CAST AL NIPPLE, CONDUIT, 5.00L COUPLING, ELEC, CND, 3/4" FLEX, ELEC CND, 3/4" FLEX. LIQUID- TIGHT METALLIC, TYPE LA, 3' BUSHING, 3/4" LOCK NUT, ELEC CONDUIT, 3/4" DIAM TERMINAL, LUG, 4-14 AWG	$\begin{array}{c} 033786-0002\\ 033661-0003\\ 033728-0003\\ 033671-0004\\ 033671-0001\\ 033590-0001\\ 033588-0001\\ 033586-0006\\ 033735-0002\\ 033516-0002\\ 033516-0000\\ 033514-0000\\ 025986-0001\\ \end{array}$
E COPPER (ITEM 21) MADE WITH SPLIT BOLT CONNECTOR (ITEM	ITEM	QTY	DESCRIPTION	PN
CEWAY. ELEMENT AND IS FACTORY ASSEMBLED.			FARIS LISI	
CABLES TO ANT. THRU CABLE RACEWAY & VIA REAR ANT.				
AN ASTERISK (*) ARE FURNISHED BY THE CONTRACTOR.		REV. LTR.	DATE DESCRIPTION	
BE USED AS SPARE HARDWARE FOR THE ANTENNA RADOME			DEPARTMENT OF TRANSPORTATI FEDERAL AVIATION ADMINIS WASHINGTON, D.C. 20590	ON TRATION
AY BEFORE TIGHTENING THIS HARDWARE 7) ITEMS ARE DENOTED BY BALLOONS WITH 67-x (x=IS FIND				
D-0001 FOR FN 17,18,24,25,28,34,43,65,66,67,68,72,73,74, & 75. D-1001, ELECTRICAL SUPPLY KIT, FOR ALL OTHER FIND NUMBERS. MENTS, GLUE CONDUIT ADAPTERS ON CONDUIT USING (LOCALLY FING ADHESIVE. SEAL EACH CABLE CONDUIT END WITH (LOCALLY		25)//5	INSTRUMENT LANDING SY CAPTURE EFFECT LOCAL 14 ELEMENT ANTENNA INSTALLATION DETAIL TYPE NO. FA-3400	STEM JZER ARRAY JS 1
TENNA ARRAY IS TO BE ASSEMBLED AND INSTALLED BY THE		RE∨IE		
ING CONCRETE FOUNDATION. EEPS ARE TO BE REUSED CONNECTING INTO THE BOTTOM OF THE IS TO BE REARRANGED TO ALIGN UP TO NEW KNOCKOUTS			DESIGNED BY ISSUED BY DATE-	07/02/2024 REV.
			CHECKED BY SERVICE	ن 6288–18

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	-WHILA MAXIMUM SLUMP OF 4 INCHES. MAXIMUM AGGREGATE SIZE -SHALL BE 3/4 INCH. CONCRETE SHALL NOT BE LOADED FOR AT LEAST -SEVEN (7) DAYS AFTER CONCRETE PLACEMENT.
-2	-IF FILL OR GRADING IS REQUIRED IT SHALL BE BUILT UP
	-IN LAYERS NOT EXCLEDING 6 INCHES. EACH LAYER SHALL BE -THOROUGHLY TAMPED AND COMPACTED TO 95% OF MAXIMUM -DENSITY AT OPTIMUM WATER CONTENT CRADING OF ROCK AND
	-SOIL SHALL BE SO THAT ALL DRAINAGE IS AWAY FROM FOUNDATION. MAINTAIN A DRAINAGE SLOPE OF 1/8" PER FOOT.
3.	GRADE BEAM FOUNDATIONS SHALL BE HORIZONTALLY LEVEL WITH EACH OTHER WITHIN 1/4 INCH. INDIVIDUAL GRADE BEAM SURFACES SHALL BE LEVEL WITHIN 1/8 INCH. GRADE BEAM SURFACES SHALL BE TROWEL FINISHED WITH TOOLED EDGES.
-4.	-DOOR STOOP TO BE CENTERED BELOW DOOR. THE TOP OF THE CONCRETE- STOOP SHALL BE 3 INCHES BELOW THE BOTTOM OF SHELTER DOC
	SLOPE THE STOOP 1 PERCENT AWAY FROM THE SHELTER. BROOM FINI THE STOOP. THE STEPS SHALL BE INSTALLED WHERE THE TOP OF STOOP IS MORE THAN 11" ABOVE THE EXISTING GRADE. THE TOP OF THE STOOP OR THE HIGHEST STEP SHALL BE LEVEL WITH THE FINISHED
5.	THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED STEEL PER ASTM A153 AND A325. EXPOSED THREADS SHALL BE CLEAN AND LUBRICATED. TIGHTEN THE NUT TO 45 FT-LBS MINIMUM. THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE CONTRACTOR FURNISHED.
6.	THE EQUIPMENT SHELTER AND TIE-DOWN PLATES ARE GOVERNMENT FURNISHED MATERIAL. LIFTING RINGS ARE PROVIDED IN THE SHELTER SKID CHANNELS FOR CRANE LOADING AND OFF-LOADING. SPREADER BARS SHALL BE USED BETWEEN THE LIFTING CABLES. PROVIDE ADEQUATELY SIZED EQUIPMENT TO LIFT AND LOAD, TRANSPORT, AND LIFT AND OFF-LOAD THE SHELTER. THE USE OF A FORKLIFT FOR THIS PURPOSE WILL NOT BE PERMITTED. ALL FEES, PERMITS, RENTALS, ETC, FOR TRANSPORTATION SHALL BE INCLUDED IN THE BID. INSPECT THE SHELTER AND CONTENTS PRIOR TO TRANSPORTING THE SHELTER. NOTIFY THE COR OF ANY DAMAGE TO SHELTER PRIOR TO BEGINNING TRANSPORTING THE SHELTER. CONFIRM THAT ALL SHELTER CONTENTS ARE SECURED PRIOR TO TRANSPORTING. ONCE THE PROCESS OF TRANSPORTING THE SHELTER HAS BEGUN, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE SHELTER AND ITS CONTENTS UNTIL FINAL ACCEPTANCE BY THE FAA.
7.	AFTER ANCHORING THE SHELTER, CONTRACTOR TO INSTALL THE LED LIGHTS AND THE LIGHT FIXTURE COVERS. INSTALL THE HVAC UNIT IN THE WALL SLEEVE AND REMOVE THE PLYWOOD FROM THE AIR INTAKE LOUVER.
8.	THE SHELTER SHALL BE ANCHORED WITH CONTRACTOR FURNISHED GALVANIZED NUTS AND WITH GOVERNMENT FURNISHED TIE-DOWN PLATES.
9.	CONTRACTOR SHALL THOROUGHLY PRESSURE WASH AND WAX ENTIRE EXTERIOR OF NEW FIBERGLASS SHELTER AFTER INSTALLATION.
10.	GRAVEL AROUND AND UNDER SHELTERS NOT SHOWN.
11.	SHELTER AND INTERFACE BOX IS GFM. A/C IS GFM. SEE ABOVE NOTES FOR SPECIFIC ITEMS INCLUDED WITH SHELTER FOR SETTING SHELTER. ALL OTHER ITEMS INCLUDING CONDUIT IS BY CONTRACTOR.
12.	FIELD LOCATE AND REROUTE EXISTING CONDUITS UP TO NEW INTERFACE BOX. COORDINATE WITH THE RE ON WHICH COMPARTMENT OF THE INTERFACE BOX TO LAND EACH CONDUIT SWEEP. PROVIDE NEW CONDUIT SWEEPS AND VERTICAL RGS CONDUIT AS NEEDED
13.	CONTRACTOR TO INSTALL LIGHTNING PROTECTION SYSTEM. FAA TO PROVIDE ABOVE GROUND EXTERIOR KIT FOR LIGHTNING PROTECTION. THE CONTRACTO TO PROVIDE ALL NEW UNDERGROUND LIGHTNING/GROUNDING PROTECTION PE DETAIL. CONTRACTOR TO INSTALL INTERFACE BOX ALONG WITH CONDUIT CONNECTIONS FROM EXISTING CONDUIT INTO THE NEW SHELTER. COORDINATE WITH THE FAA'S RE ON CONDUIT ROUTING AND INSTALLATION OF LOOSE EQUIPMENT ON THE EXTERIOR OF THE SHELTER.
14.	REFER TO THE APPENDIX FOR THE LOCALIZER SHELTER SUBMITTAL FOR WH. WAS ORDERED AND BRING PROVIDED BY THE FAA. THE DRAWINGS IN THE APPENDIX SHOW ADDITIONAL DETAILS IN EQUIPMENT PLACEMENT AND LAYOU OF THE INTERIOR ALONG WITH THE SHELTER EXTERIOR LAYOUT.

DRAWING PRODUCED ON ASO RO MICROSTATION SYSTEM

			PARTS LIST	
ENTS OF THE ANTENNA ELEVATIONS.	ITEM	QTY	DESCRIPTION	WPN
ACH ANTENNA.	3 2 1	60 48 12	NUT, HEX 7/8″–9 Washer, lock 7/8" Bolt, anchor 7/8"–9x28"	(SEE NOTE 4 (SEE NOTE 4 *
ADDITIONAL 1" RGS FOR ANTENNA 0 CORD. PROVIDE(3) 1" WEATHER	0 5 4	1	SECTION, TOWER 20' SECTION, TOWER 20' (BASE)	(SEE NOTE 3 (SEE NOTE 3
OM ANTENNAS.	876	36 2	BOLT, HEX $7/8"-9x2-1/2"$ Section, tower 5'	(SEE NOTE 3 (SEE NOTE 3
LEG OF TOWER FURTHEST AWAY	11 10 9		N/A N/A N/A	
OF TOWER FURTHEST AWAY	14 13 12			
LTS FACE OUT.	17 16 15	AR 3 AR	COUPLING, CONDUIT 3" RIGID ELBOW, 45° GALV. RIGID 3" CONDUIT. GALV. RIGID 3"	*
AVE THE BOLT HANDS ON THE	20 19 18	3	WEATHERHEAD, ENTRANCE 2" RGS NOT USED N/A	*
R FLIGHT CHECK BY	23 22 21	AR 1	HANGER, CONDUIT 2" (NOTE 11 TYP) NOT USED CONDUIT, GALV. RIGID 2"	*
OVE THE TOP ANTENNA	26 25 24	AR	N/A N/A HANGER, CONDUIT 1" (NOTE 11 TYP)	*
RHEAD SHALL BE MOUNTED	29 28 27	3 1 2	CONDULT, GALV. RIGID 1" CONDULT, GALV. RIGID 1" CONDULT, GALV. RIGID 1"	* * *
PROVIDE DUAL LED GHT PART NUMBER	32 31 30	1 AR 2	COUPLING, CONDUIT NO THREAD 1" COUPLING, CONDUIT GALV. RIGID 1" ELBOW, 45° GALV. RIGID 1"	033769-000
UIT WHERE IT	35 34 33			
NGE AND AT LEAST E.	39 38 37	AR AR AR	WASHER, FLAT 1/4" (NOTE 11) SCREW,MACHINE 1/4"-20x1/2" (NOTE 11) HANGER, CONDUIT 1" (NOTE 11)	* * *
WER BASE. E ARRANGED SO	42 41 40	1 AR AR	SEE NOTE 13 NUT, HEX 1/4"–20 (NOTE 11) WASHER, LOCK 1/4" (NOTE 11)	
EN TOWER SECTION IG THE SECTIONS AINT BETWEEN THE	45 44 43	3 1 2	FRAME, ANTENNA MOUNTING COUPLING, REDUCING 3/4" — 1" NOT USED	088476-000
THE EXISTING TOWER FOR	48 47 46	12 12 12	ANGLE, SUPPORT CLAMP, "U" 3" DIA.x3/8"-16 CHANNEL, MOUNTING	088476-000 088476-000 088476-000
E EXISTING CLIMBING/FALL	51 50 49	24 48 48	LOCK, CHANŃEL NUT, HEX 3/8"—16 WASHER, LOCK 3/8"	088476-000 088476-000 088476-000
D INSTALLED ON NEW TOWER	54 53 52	3 3 24	FARGO [´] LUG (SEE NOTE 5) ELEMENT, ANTENNA BOLT, HEX 3/8"–16×1–1/2"	025459-000 447791-000 088476-000
DETAIL DRAWING FOR ER SYSTEM FROM EXISTING	57 56 55	2 AR 3	ELL, SWEÉP 1" PVC CONDUIT, 3/4" PVC CLAMP, GROUND	* * 094686-000
CTORY ASSEMBLED.	60 59 58	2 2 4	CONNECTOR, SPLIT BOLT ASSEMBLY, TOWER GROUND COUPLING, 1"PVC	229911-000 (SEE NOTE 3 *
) DRILLED TO 3/8" DIA	63 62 61	2 22	UNILET, CONDUIT "T", RGS 3" N/A TIE WRAP	* 094675-000
48 EACH OF ITEMS 2 R ASSEMBLY OF TOWER	66 65 64	3 3	ANTENNA CABLE (BY OTHERS) GASKET, COVER COVER, UNILET	*
PE TOWER WPN 3 Part number available.	69 68 67	3 1	N/A NIPPLE, 2"x4" MIN, RGS UNILET, CONDUIT "LB",3" GALV. RIGID	488767-000
ÓTHER ITEMS ARE	72 71 70	2	N/A COPPER CLAD GROUND ROD (3/4"x10' LONG) N/A	
*) SHALL BE FURNISHED	73 1	50, 00'	CABLE, POWER, #12 THW RED CABLE, POWER, #12 THW BLACK	*

DRAWING PRODUCED ON ASO RO MICROSTATION SYSTEM

NOTES

- 1. ROUND TUBE NOTCHED RAIL SYSTEMS ARE NOT ALLOWED. THE CLIMBING RAIL THAT IS FURNISHED WITH THE GS KIT SHALL BE SCRAPPED.
- 2. RUNGS MINIMUM 3/4" ROUND BAR.
- 3. TOWER SHOULD BE ORIENTED SO THAT BOLT ON LADDER COVERS THE INTEGRATED, (BUILT-IN) LADDER ON THE TOWER IF POSSIBLE AND MOUNTED ON THE SIDE FURTHEST FROM RUNWAY CENTERLINE.
- 4. THE SUPPORTS ARE TO BE PLACED AS CLOSE AS POSSIBLE TO PANEL POINTS AT APPROXIMATELY 4'-0" SPACING.
- 5. THE OBSTRUCTION LIGHT, HEATER CIRCUIT AND RF CONDUITS ARE TO BE INSTALLED ON OUTSIDE OF TOWER AND FURTHEST AWAY FROM THRESHOLD ON SAME VERTICAL LEG SO THAT THE PLATFORMS CAN BE INSTALLED ON THE INSIDE OF THE TOWER...
- 6. INSTALL THREE GALVANIZED, INTERNALLY-MOUNTED PLATFORMS ON THE GS TOWER 54" BELOW MID-POINT OF EACH ANTENNA. GLIDE SLOPE PLATFORMS FURNISHED BY FAA.
- 7. THOMPSON CABLE SHALL NOT BE INSTALLED UNDERGROUND. USE #4/0 TO MAKE CONNECTION TO THE UNDERGROUND EES MIN 18" ABOVE GRADE.
- 8. ADD IN PLATED BRAIDED GROUND STRAPS BETWEEN LADDER SECTIONS AT BOLTED CONNECTIONS.
- 9. EXISTING LADDER AND SAFETY CLIMBING SYSTEMS THAT WERE REMOVED FROM EXISTING TOWER IS TO BE REUSED ON THE NEW TOWER INSTALLATION. CONTRACTOR SHALL PROVIDE THE NECESSARY HARDWARE TO MOUNT EQUIPMENT.
- 10. ALL PART NUMBERS ARE DYNA-GLIDE/MSA ROSE.
- 11. -CONTRACTOR SHALL FURNISH AND INSTALL DYNA-GLIDE/MSA CLIMBING SYSTEM -WITH SKYLOTEC RAIL AND TROLLEY.

NOTES

1. CONTRACTOR IS TO PROVIDE NEW UNDERGROUND EARTH ELECTRODE SYSTEM. PROVIDE NEW GROUND RODS AND #\$ CABLE AS NEEDED TO COMPLETE INSTALLATION AND MEET THE REQUIREMENTS AS SPECIFIED AND SHOWN.

2. EES SHALL BE 30" BELOW FINISHED GRADE.

3. TOP OF GROUND ROD SHALL BE 18" BELOW FINISHED GRADE.

4. THE CONTRACTOR TO INSTALL LIGHTNING PROTECTION AS SHOWN ON THIS DRAWING. SHELTER COMPONENTS COOME WITH THE SHELTER. THE CONTRACTOR IS RESPONSIBLE FOR THE INVETORY OF THIS MATERIAL.

5. CABLE AMERICAN WIRE GAUGE UNLESS OTHERWISE NOTED.

6. CONNECTION BELOW GRADE SHALL BE EXOTHERMATICALLY WELDED.

7. CONNECTION FROM GROUND PLATE TO GROUND ROD LENGTH SHALL BE AS SHORT AS POSSIBLE BUT IN NO CASE SHALL IT BE GREATER THAN 50'.

8. THE 4/0 GREEN W/ORANGE TRACER IS CONTRACTOR TO PROVIDE. ONE END OF THE CABLÉ COMES WITH A LUG PRECRIMPED FOR ATTACHMENT TO THE PLATE. 9. CONTRACTOR PROVIDE #4/0 GREEN W/ORANGE TRACER.

10. USE ITEM 6 TO CONNECT DOWN CONDUCTOR TO #4/0 FROM EES GROUND ROD. 11. THE CONTRACTOR SHALL CONNECT ALL EXTERNAL METAL OBJECTS WITHIN 6' TO THE LIGHTNING PROTECTION WITH HARGER #28.

AIR TERMINAL

___ INTERFACE BOX

NOTES

PART NO.

6

7	
	CROS

1. DOWN CONDUCTOR BENDS SHALL NOT EXCEED 90 DEGREES.

2. DOWN CONDUCTOR BEND RADIUS SHALL NOT EXCEED 8 IN.

3. CLAMPS SHALL NOT EXCEED 3 FT IN SPACING.

4. AIR TERMINAL SHALL BE LOCATED ON THE SAME SIDE OF THE TOWER AS THE

5. SPLICING OF #4/O AND DOWN CONDUCTOR SHALL BE NO MORE THAN 18 IN.ABOVE GRADE. ONE SPLICE SHALL BE BY EXOTHERMIC WELD. ONE SPLICE SHALL BE DONE BY THE CLAMP.

6. AIR TERMINAL MUST EXCEED THE HEIGHT OF TOWER AND OBSTRUCTION

7. ALL DOWN CONDUCTORS SHALL BE TERMINATED ON A GROUND ROD.

8. ALL PARTS MUST BE FROM THE SAME MANUFACTURER.

9. ALL PARTS MUST BE USED PER MANUFACTURER INSTRUCTIONS.

10. ANY SUBSTITUTION MUST BE SUBMITTED AND APPROVED BY THE

11. THE AIR TERMINAL SHALL BE INSTALLED WITH JAMB NUTS TO PREVENT MOVEMENT OF THE AIR TERMINAL. THE AIR TERMINAL SHALL BE VERTICAL.

12. THE CONTRACTOR SHALL PROVIDE TWO (2) STAINLESS STEEL TWOO HOLE

13. GLIDESLOPE TOWER LIGHTNING PROTECTION SYSTEM IS TO BE PROVIDED AND INSTALLED

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•	DESCRIPTION	PART NUMBER
	3"-3.5" CLAMP	HARGER P/N CPC 2.5/3
	DOWN CONDUCTOR	HARGER P/N 28)
	AIR TERMINAL	HARGER P/N 1224CSTAT
	AIR TERMINAL BASE	HARGER P/N CPRB2.5/3AT12
	EXTENSION ROD ADAPTER	HARGER P/N 148
	AIR TERMINAL EXTENSION	HARGER 145-36
	1/2"- 3/4" CLAMP	HARGER P/N CPC .5/.75

DRAWING PRODUCED ON ASO RO MICROSTATION SYSTEM