# FOR THE RICHLANDS, NORTH CAROLINA FEBRUARY 2025

# SOUTH GA EXPANSION ALBERT J. ELLIS AIRPORT (OA

WKDICKSON PROJECT NO. 20240074.00.WK **BID DOCUMENTS - NOT FOR CONSTRUCTION** 



VICINITY MAP SCALE: 1" = 2,000'



NOTICE TO CONTRACTOR:

1. THE CONTRACTOR SHALL FIELD VERIFY THE ONSITE BENCHMARKS. THE CONTRACTOR SHALL IMMEDIATELY CONTACT W.K. DICKSON & CO., INC. @ 919.256.5616 IF ANY DISCREPANCIES ARE FOUND IN ELEVATIONS SHOWN.

- PRIOR TO CONSTRUCTION, DIGGING, OR EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL 2 UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA(S) OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. CALL "811" A MINIMUM OF 72 HOURS PRIOR TO DIGGING OR EXCAVATING. REPAIRS TO ANY UTILITY DAMAGED RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL ANTICIPATE THE NEED FOR PRIVATE UTILITY LOCATES AND THE ASSOCIATED COST IF 811 3 DOES NOT LOCATE ALL UTILITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR PRIVATE UTILITY LOCATES.









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# GENERAL NOTES:

- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND HAVING FAMILIARIZED HIMSELF/ HERSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- EXISTING FEATURES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR'S WORKERS OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE BY THE END OF THE WORKING DAY TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- ALL DISTURBED AREAS, INCLUDING THE CONTRACTORS STAGING AREA, HAUL ROUTES, GRADING LIMITS. ETC., SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- THE CONTRACTOR WILL BE REQUIRED TO TRANSPORT AND STORE ALL EQUIPMENT AND MATERIALS IN A MANNER WHICH WILL NOT DAMAGE ANY EXISTING PAVEMENT, BUILDINGS, SIGNS, LIGHTS, ETC. ANY DAMAGE WILL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE OWNER. THE CONTRACTOR SHALL KEEP ACCESS ROUTES CONTINUOUSLY CLEAN AND FREE OF LOOSE DEBRIS FROM CONSTRUCTION MATERIALS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEARING ALL PAVEMENTS TRAVERSED BY CONSTRUCTION EQUIPMENT OF DEBRIS DAILY.
- THE CONTRACTOR AND THE PROJECT ENGINEER/AIRPORT REPRESENTATIVE SHALL HAVE A PRE-CONSTRUCTION WALK-THRU TO DOCUMENT EXISTING CONDITIONS OF AIRPORT FACILITIES.
- NO DEBRIS OF ANY NATURE SHALL BE ALLOWED OUTSIDE OF THE CONSTRUCTION AREAS. ALL LOOSE MATERIALS (MILLINGS, DIRT, STONE, PAVEMENT, FORMING, ETC.) MUST BE KEPT WITHIN THE LIMITS OF CONSTRUCTION. WHEN THE CONSTRUCTION BARRIERS ARE MOVED DURING CONSTRUCTION, CLEANUP OF THE AREAS OUTSIDE THE BARRIERS SHALL OCCUR IMMEDIATELY. IN ADDITION, NO LOOSE MATERIALS THAT COULD BLOW INTO AIRCRAFT OPERATIONS AREA SHALL BE ALLOWED IN THE CONSTRUCTION AREA. CONTRACTOR MUST HAVE A POWER BROOM AND VACUUM TRUCK IN GOOD WORKING ORDER ONSITE AT ALL TIMES FOR DEBRIS REMOVAL.
- THE CONTRACTOR SHALL PROVIDE FOR EMPLOYEE PARKING WITHIN HIS STAGING AREA. ONLY AUTHORIZED VEHICLES WILL BE ALLOWED INSIDE THE SECURITY FENCE. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL POSITION ALL EQUIPMENT, TOOLS, MATERIAL, ETC. IN THE APPROVED STAGING AREA UNLESS OTHERWISE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER OR OWNER.
- EQUIPMENT NOT IN USE SHALL BE PARKED IN THE CONTRACTOR'S STAGING AREA.
- CONTRACTORS OPERATING CONSTRUCTION VEHICLES AND EQUIPMENT ON THE AIRPORT MUST BE PREPARED TO EXPEDITIOUSLY CONTAIN AND CLEAN-UP SPILLS RESULTING FROM FUEL OR HYDRAULIC FLUID LEAKS. TRANSPORT AND HANDLING OF OTHER HAZARDOUS MATERIALS ON AN AIRPORT ALSO REQUIRES SPECIAL PROCEDURES. SEE AC 150/5320-15, MANAGEMENT OF AIRPORT INDUSTRIAL WASTE.
- 10. THE OWNER RESERVES THE RIGHT TO CONTRACT AND PERFORM OTHER OR ADDITIONAL WORK ADJACENT TO AND WITHIN THE WORK AREA COVERED BY THIS CONTRACT. WHEN SEPARATE CONTRACTS ARE LET WITHIN THE LIMITS OF ANY ONE PROJECT, EACH CONTRACTOR SHALL CONDUCT HIS WORK SO AS NOT TO INTERFERE WITH OR HINDER THE PROGRESS OR THE COMPLETION OF THE WORK BEING COMPLETED BY OTHER CONTRACTORS. THE CONTRACTORS WORKING ON THE SAME PROJECT SHALL COOPERATE WITH EACH OTHER AS REQUESTED BY THE ENGINEER. ANY ADDITIONAL EFFORT OR WORK REQUIRED FOR SUCH COORDINATION WITH OTHER CONTRACTORS SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- 1. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL DESIGNATE A PRIMARY REPRESENTATIVE AND AN ALTERNATE TO BE AVAILABLE FOR CONTACT ON A 24 HOUR BASIS SHOULD THE NEED ARISE. THE CONTRACTOR SHALL PROVIDE THE PRIMARY REPRESENTATIVE FOR EACH SCHEDULE OF WORK WITH A PHONE/RADIO FOR COMMUNICATION WITH THE OWNER.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, IDENTIFICATION, & PROTECTION OF ALL EXISTING UTILITIES (BOTH PUBLIC & PRIVATE) & NAVAIDS IN CONSTRUCTION AREA. ANY DAMAGES TO EXISTING UTILITIES OR NAVAIDS ON OR OFF AIRPORT PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY/NAVAID LOCATION, REPAIR, OR REPLACEMENT. CONTRACTOR SHALL NOTIFY THE AIRPORT IMMEDIATELY OF ANY DAMAGES TO UTILITIES OR NAVAIDS DURING CONSTRUCTION. EXTENSION OF PROJECT SCHEDULE FOR DAMAGE AND REPAIR OF UTILITIES WILL NOT BE CONSIDERED.
- 13. THE CONTRACTOR & HIS/HER EMPLOYEES SHALL NOT BE ALLOWED INTO ANY EXISTING BUILDINGS. A PORT-A-JOHN SHALL BE ON SITE AT ALL TIMES AS DEFINED IN THE PLANS AND SPECIFICATIONS OR AGREED TO BY THE ENGINEER AND OWNER. CONTRACTOR SHALL SECURE PORT-A-JOHN TO PREVENT IT FROM MOVING.

# SAFETY AND SECURITY NOTES:

THROUGHOUT THE CONSTRUCTION PROJECT, THE FOLLOWING SAFETY AND OPERATIONAL PRACTICES SHALL BE OBSERVED:

- THE CONTRACTOR MUST HAVE AT LEAST ONE (1) WORKING AIRFIELD RADIO ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL ASSIGN RESPONSIBLE PERSONNEL TO CONTINUOUSLY MONITOR GROUND CONTROL ON FREQUENCY 125.4 MHZ DURING OPERATIONAL HOURS. USE COMMON TRAFFIC ADVISORY FREQUENCY (CTAF) 132.65 MHZ AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WALKING THE SITE TO ENSURE THAT THERE ARE NO OBSTRUCTIONS AND/OR FOREIGN OBJECT DEBRIS ON THE TAXILANES OR APRONS AT THE END OF EACH WORK DAY.
- THE CONTRACTOR SHALL COMPLY WITH ALL AIRPORT RULES AND REGULATIONS, AND SAFETY AND SECURITY REQUIREMENTS.
- CONTRACTOR SHALL BE AWARE OF THE PENALTY PROVISIONS FOR NON-COMPLIANCE WITH AIRPORT RULES AND REGULATIONS AND THESE SAFETY PLANS, INCLUDING RESCISSION OF DRIVING PRIVILEGES OR ACCESS TO THE AIRCRAFT OPERATIONS AREA.
- ALL CONSTRUCTION VEHICLES TRAVERSING ANY PORTION OF THE AIRPORT OPERATIONS AREA (AOA), MUST BE PROVIDED WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG MUST BE AT LEAST 3 FEET BY 3 FEET SQUARE HAVING A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE SQUARES AT LEAST 1 FOOT ON EACH SIDE. THE STANDARD FOR IDENTIFICATION LIGHTING FOR VEHICLES OPERATING IN THE AOA IS AN AMBER FLASHING LIGHT THAT IS MOUNTED ON THE UPPERMOST PART OF THE VEHICLE STRUCTURE. A STEADY AMBER LIGHT DESIGNATES VEHICLES LIMITED TO NON-MOVEMENT AREAS. ALL MARKING AND LIGHTING SHALL BE IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5210-5. ALL CONSTRUCTION VEHICLES MUST BE CLEARED FOR ACCESS BY OWNER. ALL CONSTRUCTION VEHICLES, WITH THE EXCEPTION OF EQUIPMENT, MUST BE MARKED WITH THE COMPANY NAME IN LETTERING A MINIMUM OF 4 INCHES HIGH.

- 6. CONSTRUCTION CONTRACTORS SHALL CONTROL AND CONTINUOUSLY REMOVE WASTE OR LOOSE MATERIALS THAT MIGHT ATTRACT WILDLIFE. VARIOUS CONTRACTOR OPERATIONS DURING CONSTRUCTION CAN DIRECTLY OR INDIRECTLY CREATE WILDLIFE HAZARDS AT AIRPORTS. ONE INDIRECT WILDLIFE HAZARD BY CONTRACTOR PERSONNEL ACTIVITY IS THE GENERATION OF TRASH. FOOD SCRAPS MUST BE COLLECTED FROM CONSTRUCTION PERSONNEL AND DISPOSED OF APPROPRIATELY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ARRANGEMENTS FOR TRASH REMOVAL FROM THE PROJECT SITE AS WELL AS THE CONTRACTOR'S STAGING AREA. TRASH SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS AS A MINIMUM REQUIREMENT. SHOULD THIS PRACTICE PROVE TO BE INADEQUATE, THE CONTRACTOR SHALL INCREASE THE FREQUENCY OF TRASH REMOVAL. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION TO AVOID STANDING WATER.
- 7. THE CONTRACTOR SHALL PROVIDE AT LEAST 72 HOURS NOTICE TO THE OWNER BEFORE ACCESSING ANY WORK AREA UNLESS OTHERWISE NOTED.
- 8. NO WORK AREAS SHALL BE CLOSED TO AIRCRAFT UNTIL SO AUTHORIZED BY THE OWNER.
- THE CONTRACTOR SHALL COORDINATE AND MANAGE INGRESS-EGRESS LOCATIONS WITH THE OWNER. ALL GATES TO SECURED AIRPORT AREAS SHALL BE MANNED/MONITORED CONTINUOUSLY BY THE CONTRACTOR TO CONTROL ACCESS IN ACCORDANCE WITH THE OWNERS REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GATES AT ALL TIMES.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/ HER STAFF AT ALL TIMES. NO PERSON SHALL HAVE DIRECT ACCESS TO ANY RUNWAY OR TAXIWAY WITHOUT APPROVAL OF THE OWNER, ANYONE FOUND IN RESTRICTED AREAS OR THE MOVEMENT AREA WITHOUT PERMISSION WILL BE IMMEDIATELY AND PERMANENTLY REMOVED FROM THE JOB SITE.
- 11. PERSONNEL, EQUIPMENT OR OTHER CONSTRUCTION-RELATED MATERIAL WILL NOT BE PERMITTED OUTSIDE OF DESIGNATED WORK AREAS.
- 12. COORDINATION AND PLACEMENT OF TEMPORARY BARRICADES SHALL BE COMPLETED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND OWNER PRIOR TO CONSTRUCTION ACTIVITY.
- 13. BARRICADES, FLAGMEN AND GATE CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER, TO ENSURE THAT TRAFFIC IS MAINTAINED ON THE DESIGNATED ROUTE. FLAGMEN SHALL BE EQUIPPED WITH WORKING AIRFIELD RADIOS AND SHALL BE RESPONSIBLE FOR COORDINATING AND OBTAINING APPROVAL THE MOVEMENT OF PERSONNEL AND EQUIPMENT ACROSS ACTIVE TAXIWAYS WITH GROUND CONTROL.
- 14. PROJECT ACCESS LOCATIONS, HAUL ROUTES AND STAGING AREAS SHALL BE COORDINATED WITH THE OWNER. THESE AREAS SHALL BE AVAILABLE TO THE CONTRACTOR FOR THE DURATION OF THE PROJECT, UNLESS OTHERWISE NOTED.
- 15. IN ORDER TO CONSTRUCT THIS PROJECT WITH MINIMAL INTERFERENCE TO AIRPORT OPERATIONS, THE CONTRACTOR SHALL CONDUCT HIS CONSTRUCTION OPERATIONS AS SHOWN ON THE CONSTRUCTION SEQUENCE AND SAFETY PHASING PLAN, & HIS APPROVED CONSTRUCTION PROGRESS SCHEDULE. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ENGINEER TO MINIMIZE DISRUPTION TO AIRPORT OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE COMPLIANCE WITH SAFETY REQUIREMENTS AND TO MINIMIZE INTERFERENCE TO AIRPORT OPERATIONS DURING CONSTRUCTION.
- 16. CONTRACTOR SHALL OBTAIN, HAVE KNOWLEDGE OF, & INCORPORATE THE FOLLOWING SAFETY PROVISIONS INTO THE CONSTRUCTION PROJECT:
- OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION AC 150/5370-2G.
- AIRPORT SAFETY SELF-INSPECTION AC 150/5200-18C. • SAFETY REQUIREMENTS OF THE SPECIFICATIONS.
- SECURITY REQUIREMENTS OF THE SPECIFICATIONS.
- CONSTRUCTION SAFETY AND PHASING PLAN
- COMMERCIAL SERVICES AIRPORTS
- 20. CONTRACTOR WILL MAINTAIN SECURITY WITHIN THE PROJECT SITE AT ALL TIMES. NO UNAUTHORIZED PERSONNEL SHALL BE ALLOWED ON THE SITE.
- 21. CONTRACTOR PERSONNEL MUST BE BADGED PRIOR TO BEGINNING WORK.
- HAUL ROUTES, STAGING AREAS & CONSTRUCTION ACTIVITIES:
- 1. ALL EQUIPMENT MUST BE RETURNED TO THE APPROPRIATE STAGING AREA AT THE END OF EACH WORK DAY & WHEN NOT ENGAGED IN THE CONSTRUCTION DURING NON-WORKING DAYS & NIGHTS UNLESS OTHERWISE APPROVED BY THE OWNER. PLANS AND SPECIFICATIONS DESIGNATE AREAS FOR CONTRACTOR'S EMPLOYEES AUTO PARKING.
- 2. THE PROVISION & MAINTENANCE OF HAUL ROADS, HAUL ROAD STONE, TEMPORARY HAUL SLABS & STEEL PLATES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HAUL ROUTES IN USABLE CONDITION THROUGHOUT THE LIFE OF THE PROJECT. THIS MAINTENANCE COST SHALL BE INCIDENTAL TO THE PROJECT.
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN CONDUCTING CONSTRUCTION TRAFFIC AROUND THE AIRPORT TERMINALS. CONSTRUCTION VEHICLES ARE REQUIRED TO YIELD TO PEDESTRIANS AND TO OBSERVE THE POSTED SPEED LIMITS. DURING HIGH PEDESTRIAN TRAFFIC CONSTRUCTION VEHICLES SHALL BE LIMITED TO 10 MPH WHEN IN FRONT OF THE AIRPORT TERMINAL.

# CONSTRUCTION MAINTENANCE & FACILITIES MAINTENANCE:

THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR MUST

- 1. BE FAMILIAR WITH AND UNDERSTAND THE SAFETY PROBLEMS AND HAZARDS DESCRIBED IN THE MOST RECENT AC 150/5370-2, OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION.
- 2. CONDUCT ACTIVITIES SO AS NOT TO VIOLATE ANY SAFETY STANDARDS CONTAINED IN THE MOST RECENT AC 150/5370-2 OR ANY OF THE REFERENCES THEREIN.
- 3. INSPECT ALL CONSTRUCTION AND STORAGE AREAS AS OFTEN AS NECESSARY TO BE AWARE OF CONDITIONS.
- 4. PROMPTLY TAKE ALL ACTIONS NECESSARY TO PREVENT OR REMEDY ANY UNSAFE OR POTENTIALLY UNSAFE CONDITIONS AS SOON AS THEY ARE DISCOVERED.

# NOTAMS:

OPEN.

NOTAM REQUESTS FROM THE CONTRACTOR TO THE OWNER SHALL BE MADE AT LEAST 72 HOURS IN ADVANCE OF THE NEED FOR THE NOTAM. THE OWNER WILL COORDINATE AND ISSUE THE NECESSARY NOTAMS TO REFLECT CONSTRUCTION RELATED IMPACTS. NOTAMS ARE TO BE KEPT CURRENT AND REFLECT THE ACTUAL CONDITIONS WITH RESPECT TO CONSTRUCTION SITUATIONS. ACTIVE NOTAMS SHALL BE REVIEWED PERIODICALLY AND REVISED TO REFLECT THE CURRENT CONDITIONS.

22. CONTRACTOR MUST PROVIDE A BADGED GATE GUARD AT ALL TIMES WHILE GATES REMAIN

# TAXIWAY SAFETY AREA (TSA):

A TAXIWAY MUST BE CLOSED IF CONSTRUCTION ACTIVITY WILL OCCUR WITHIN THE TAXIWAY SAFETY AREA (TSA) OR TAXIWAY OBJECT FREE AREA (TOFA) (SEE AC 150/5370-2G FOR EXCEPTIONS). SEE SHEET G-101 FOR DETAILED PHASING PLAN.

OPEN TRENCHES OR EXCAVATIONS ARE NOT PERMITTED WITHIN ACTIVE TAXIWAY SAFETY AREAS.

SEE SHEET G-101 FOR LAYOUT OF SAFETY AND OBJECT FREE AREAS.

SURVEY NOTES:

- 1. THE FOLLOWING INFORMATION WAS USED FOR THE EXISTING SURVEY: SURVEY SIGNED AND SEALED BY ANTHONY K. ALFORD, NC LICENSE NO. L-4372 OF WETHERILL ENGINEERING. SURVEY COMPLETED JUNE 27, 2024. BEARING ORIENTATION IS BASED ON NORTH CAROLINA STATE GRID NORTH NAD '83 (2011) ALL COORDINATES ON CONTROL POINTS ARE GROUND IN INTERNATIONAL FEET ELEVATIONS ARE BASED ON NAVD '88 BENCHMARKS SHOWN ON SHEET S-1 - OAJ AIRPORT SURVEY.
- 2. THE SIGNED AND SEALED WETHERILL ENGINEERING. SURVEY PLANS HAVE BEEN INCLUDED WITH THIS PROJECT PLAN SET.
- 3. NO DETERMINATION HAS BEEN MADE BY THE SURVEYOR AS TO THE FOLLOWING: FLOOD ZONES; WETLANDS; UNDERGROUND STORAGE FACILITIES; UNDERGROUND UTILITIES; GRAVES, CEMETERIES, PROPERTY BOUNDARIES, OR BURIAL GROUNDS; HAZARDOUS WASTE DEPOSITS OR MATERIALS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ADDITIONAL CONTROLS THAT MAY BE NEEDED THROUGHOUT THE PROJECT.
- 5. ALL FIELD RUN SURVEY PERFORMED BY THE CONTRACTOR'S SURVEYOR SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSIONS OF AC-150/5300-16, AC-150/5300-17, AND AC-150/5300-18.
- 6. THE CONTRACTOR SHALL FIELD VERIFY THE ONSITE BENCHMARKS. THE CONTRACTOR SHALL IMMEDIATELY CONTACT W.K. DICKSON & CO., INC. @ 919-782-0495 IF ANY DISCREPANCIES ARE FOUND IN ELEVATIONS SHOWN.
- 7. PRIOR TO CONSTRUCTION, DIGGING, OR EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA(S) OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. CALL "811" A MINIMUM OF 72 HOURS PRIOR TO DIGGING OR EXCAVATING. REPAIRS TO ANY UTILITY DAMAGED RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8. THE CONTRACTOR SHALL ANTICIPATE THE NEED FOR PRIVATE UTILITY LOCATES AND THE ASSOCIATED COST IF 811 DOES NOT LOCATE ALL UTILITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR PRIVATE UTILITY LOCATES.

EROSION CONTROL NOTES:

- 1. TOTAL DISTURBED AREA FOR THIS PROJECT: 14.0 AC.
- 2. THE NCDEQ LAND DISTURBANCE PERMIT SHALL BE PROVIDED BY THE OWNER.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL FEATURES PER THE EROSION AND SEDIMENT CONTROL PERMIT.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS NECESSARY FOR REMOVAL OF WASTE OFF-SITE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS NECESSARY FOR BORROW MATERIAL FROM OFF-SITE LOCATIONS.
- 6. THE CONTRACTOR SHALL APPOINT A CONTACT PERSON RESPONSIBLE FOR MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 7. SEE SHEETS C-300 TO C-315 FOR ADDITIONAL NOTES & DETAILS ON EROSION CONTROL.

# POINTS OF CONTACT:

AIRPORT OPERATIONS: COLEMAN CANNON	
AIRPORT POLICE: CHIEF BEN JONES	
AIRPORT DIRECTOR: MITCH SPRUNGER	

WK DICKSON & COMPANY, LLC (RALEIGH) ... ..919-782-0495 (OFFICE) ELLIS TOWER GROUND CONTROL RADIO FREQUENCY: 125.4 MHZ COMMON TRAFFIC ADVISORY FREQUENCY (CTAF): 132.65 MHZ





		•	INSTALL EROSI PERFORM WOF UPON COMPLE IN PLACE UNTIL THERE IS A TO
1' ORANGE AND WHITE SQUARES		PHASE 1	APRON AND TA SITE EARTI GRAVEL AC INSTALL PF INSTALL PF PROOF-RO AND SUBB/ APRON ANI CONSTRUC LANDSIDE AIRFIELD E STABILIZAT HANGAR BI
SHALL HAVE A FLAG ON A STAFF OR AMBER AT ATTACHED TO THE TOP OF VEHICLE SO THE T WILL BE READILY VISIBLE. BE A MIN OF 3 FOOT SQUARE WITH A	LEGEND         X       X         EXISTING FENCE         ROFA       EXISTING RUNWAY OBJECT FREE AREA         ROFA       EXISTING RUNWAY OBJECT FREE AREA         TOFA       EXISTING TAXIWAY OBJECT FREE AREA	ASE 2 PHASE 1A	TAXIWAY B2 CC INSTALL TA REMOVE AI MILLING TC PAVEMENT TAXIWAY P GRAVEL AC REMOVE BA T-HANGAR CON COMPLETIC
ATTERN OF INTERNATIONAL ORANGE AND ST 1 FOOT ON EACH SIDE. VEHICLE FLAG DETAIL NOT TO SCALE	$^{\text{TSA}} ^{\text{TSA}} ^{\text{EXISTING TAXIWAY SAFETY AREA}}$ $^{\text{PROPOSED CONTRACTOR HAUL ROUTE}}$ $^{\text{PHASE LEGEND}}$ $^{\text{PHASE 1A:}} ^{\text{PHASE 1A:}} ^{\text{PHASE 2:}} $	GEN	UTILITY CO     COMPLETE      IQUIDATED D     LIQUIDATED D     CALENDAR DA     ALL WORK WIT     BARRICADES I     CONTRACTOR     TO CLOSED AF

ALE	DAJ BERT	EL AI J. EL	LI RI LIS	S O AIF	R	T
720		ARD PORATI LEIGH, (†)919-7 (†)919-7 /.WKDI ICENSI	URR A E CEI NC 2 82-96 82-04 CKSC E NO	SC com NTER 27607 572 195 DN.CC .F-03	DRI DRI DM	VE
	PR	OFESSI	ONAL	SEAL		
		 	   	   	 	BY
REVISION RECORD						DESCRIPTION
						DATE
SOUTH GA EXPANSION FOR ALBERT J. ELLIS AIRPORT (OAJ) RICHLANDS, NC PROJECT LAYOUT AND PHASING PLAN						
PROJECT NAME:				DRAWING TITLE:		
	OJ. MO SIGN I AWN E OJ. DA AWINO AWINO ( C C C C C C C C C C C C C C C C C C	GR.: <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY:</u> <u>BY</u>	JLE CDI CDI FEE BER <b>1 C</b> NO.:	H H 3. 202 : ) <b>1</b> 00.V	25 VK	



	LEGEND	
ESENT MSL ELEVATION LIMITS FOR CONSTRUCTION EQUIPMENT AS AA REGULATIONS. CONSTRUCTION CRANES, VEHICLES, AND OTHER SE SURFACES ARE CONSIDERED OBSTRUCTIONS TO AIR QUIPMENT USE, FAA NOTIFICATIONS, APPROVALS, AND SPECIAL BE ESTABLISHED. IF ELEMENTS OF THE CONSTRUCTION PROJECT NETRATION, A FAA FORM 7460-1 MUST BE SUBMITTED BY THE SSIBLE BEFORE CONSTRUCTION BEGINS. FAA APPROVAL CAN TAKE FTER THE FORM HAS BEEN APPROVED, THE CONTRACTOR SHALL A MINIMUM OF 72 HOURS IN ADVANCE WHEN ANY OF THE PART 77 A AND AIRPORT OPERATIONS HAVE THE RIGHT TO REQUIRE ANY ENETRATING THE PART 77 SURFACES TO BE REMOVED DUE TO IONS AT NO ADDITIONAL COST TO THE OWNER. ARE BASED OFF OF PUBLISHED AIRPORT ELEVATIONS AND 7 OBJECTS AFFECTING NAVIGABLE AIRSPACE.	Image: state stat	CONTRACTORS HAUL RO STAGING AREA PART 77 CONTOUR PROPOSED CONTOUR RUNWAY SAFETY AREA RUNWAY OBJECT FREE A TAXIWAY OBJECT FREE





















PROJECTS(ONSLOW COUNTY/2023105900PA - OAJ TO#2 - SO, GA EXPANSION PREL DESIGN(CADD)PLAN SET\SHEETS(20231059.00.FA\_C\_SHT\_PROFILES













DRAINAGI

PIPE NAME | SIZE | TYPE 24" RCP CLASS I 30" RCP CLASS I 30" | RCP CLASS I 24" RCP CLASS I 24" | RCP CLASS I 24" | RCP CLASS I 30" | RCP CLASS | 30" RCP CLASS II

# DRAINAGE STRUCTURE TABLE



Е	E PIPE TABLE					
	LENGTH	INVERTS	SLOPE			
IV	157'	INV IN=81.18 INV OUT=81.15	0.0%			
	124'	INV IN=81.03 INV OUT=80.90	0.1%			
III	108'	INV IN=80.90 INV OUT=80.79	0.1%			
IV	118'	INV IN=83.06 INV OUT=82.84	0.2%			
IV	101'	INV IN=82.84 INV OUT=82.64	0.2%			
IV	89'	INV IN=82.81 INV OUT=82.64	0.2%			
IV	110'	INV IN=82.64 INV OUT=82.31	0.3%			
III	140'	INV IN=82.31 INV OUT=81.82	0.4%			

NORTHING EASTING         RIM ELEV.         STRUCTUD DETAIL           N=394396.10 E=2415938.21         84.60'         5/C-312           N=394487.24 E=2416021.99         84.54'         5/C-312           N=394487.24 E=2416090.84         84.54'         5/C-312           N=394570.51 E=2416090.84         84.43'         5/C-312           N=394229.18 E=2416000.92         87.13'         5/C-312           N=394422.62 E=2416099.50         86.85'         5/C-312           N=394334.63         87.22'         5/C-312			
N=394396.10 E=2415938.21         84.60'         5/C-312           N=394487.24 E=2416021.99         84.54'         5/C-312           N=394570.51 E=2416090.84         84.43'         5/C-312           N=394229.18 E=2416000.92         87.13'         5/C-312           N=394229.18 E=2416099.50         86.85'         5/C-312           N=394422.62 E=2416099.50         86.85'         5/C-312	NORTHING EASTING	RIM ELEV.	STRUCTURE DETAIL
N=394487.24 E=2416021.99         84.54'         5/C-312           N=394570.51 E=2416090.84         84.43'         5/C-312           N=394229.18 E=2416000.92         87.13'         5/C-312           N=394422.62 E=2416099.50         86.85'         5/C-312           N=394334.63         87.22'         5/C-312	N=394396.10 E=2415938.21	84.60'	5/C-312
N=394570.51 E=2416090.84         84.43'         5/C-312           N=394229.18 E=2416000.92         87.13'         5/C-312           N=394422.62 E=2416099.50         86.85'         5/C-312           N=394334.63         87.22'         5/C-312	N=394487.24 E=2416021.99	84.54'	5/C-312
N=394229.18 E=2416000.92         87.13'         5/C-312           N=394422.62 E=2416099.50         86.85'         5/C-312           N=394334.63         87.22'         5/C-312	N=394570.51 E=2416090.84	84.43'	5/C-312
N=394422.62 E=2416099.50         86.85'         5/C-312           N=394334.63         87.22'         5/C-312	N=394229.18 E=2416000.92	87.13'	5/C-312
N=394334.63 87.22 5/C-312	N=394422.62 E=2416099.50	86.85'	5/C-312
E=2416114.42	N=394334.63 E=2416114.42	87.22'	5/C-312
N=394481.50 E=2416192.42 86.00' 5/C-312	N=394481.50 E=2416192.42	86.00'	5/C-312
N=394282.37 E=2415829.98 2/C-314	N=394282.37 E=2415829.98		2/C-314





1 inch = 30 ft.



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			<sup>  </sup>				
					ROEA		POEV A10A
	ROFA	ROFA		BOE'			
				88 — — — — — — — —			
			48" RCP -				
			i-i				
M (TYP.) = 00 IL 2/C-311				×			
F	PROPOSED DITCH D-1	SILT FENCE (	(TYP.),  _  1/C-312     /		CH D-5		
					ITCH OUTLET RIP-RAP APR		
	VST		- VSL TSA	VSI - R	IPRAP, SEE NOTE 5.	PLACE WITH CLASS B	
	-1.00%			1	//SDMH	~ 5-75-2~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
				<b>F</b>	INV IN=80.41'	۲ - ۲ -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
× <sub>o</sub> tlofa —			OFA	6' X 12' JUNC	TION BOX ERT RECESSED)	) TOFA	
			80.35	SEE NOTE 1			
		TSA *		-13)			
81	<u>-</u>				PIPE 36" RCP ~~~		r (
***		*	87.31 87.0		5/C-313 - — <sup>′</sup>	A A	
1.73	00	64,128		87.4 87.26	1+00		2+00
	0.10%	TL-1		87.5			·
61.42	61.41		61.51	87.62			
			13	8			· ····································
0	****		<b>e v</b> .	81.9			
OUTLET INTO B	ASIN 87.17						b a
AP CLASS B. DE NEW FILTER		SY OF TOTAL EROSION	61		PAVEMENT MILLING (T)	rP.),	
C UNDERNEATH	CON	ITROL MATTING, SEE NOTE 6.		7	SEE SHEET C-200 FOR DETAILS. MATCH EXIST		
	TLOFA *85.58		86.40		LIMITS	G	
	85.0						
anorma la	81.0 - <sup>co</sup> ×	× / / 0					D
	×	TEMPORARY SEDIMENT	82.0	INSTALL TEN	IPORARY CULVERT		· i be a zai zai za
	×	BASIN 1 - SEE DETAIL		INLET PROT	ECTION 4/C-311		
	zontal	1/0-315					0
	H HOL	 ×   					
		81.0				•	

MATCHLINE SEE SHEET C-305

3. CONCRETE COLLAR SHALL BE PAID UNDER "36" CONCRETE PIPE

4. REFER TO C-312 TO C-313 FOR DRAINAGE STRUCTURE DETAILS.

5. EXISTING RIPRAP THAT MEETS CLASS B RIPRAP GRADATION REQUIREMENTS CAN BE REUSED PROVIDED SOIL MATERIAL IS REMOVED FROM RIPRAP. PROVIDE NEW FILTER FABRIC

6. CONTRACTOR TO LINE PROPOSED DITCH UP TO BASIN 1. AFTER THE REMOVAL OF BASIN 1, CONTRACTOR TO LINE REMAINING PROPOSED FINAL DITCH WITH EROSION CONTROL MATTING SEE

LEGEND:		
	PROPOSED CONCRETE SIDEWALK, SEE SHEET C-200 FOR DETAILS	I
	PROPOSED ASPHALT, SEE SHEET C-200 FOR DETAILS	
66661	PROPOSED GRAVEL, SEE SHEET C-200 FOR DETAILS	•
70 69	PROPOSED CONTOUR	
70 69	EXISTING CONTOUR	
1.50%	PROPOSED SLOPE	
⊛ <sub>69.50</sub>	PROPOSED SPOT ELEVATION	

ENGTH	INVERTS	SLOPE	
228'	INV IN=80.79 INV OUT=80.57	0.1%	STRUCT
276'	INV IN=80.57 INV OUT=80.29	0.1%	C
107'	INV IN=80.60 INV OUT=80.35	0.2%	D
48'	INV IN=80.36 INV OUT=80.29	0.1%	D
17'	INV IN=80.36 INV OUT=80.29	0.4%	E
140'	INV IN=82.31 INV OUT=81.82	0.4%	E
136'	INV IN=81.82 INV OUT=81.48	0.2%	Н
27'	INV IN=81.48 INV OUT=81.40	0.3%	Н
23'	INV IN=80.35 INV OUT=80.29	0.3%	J

D				
STRUCTURE NAME	TYPE	NORTHING EASTING	RIM ELEV.	STRUCTURE DETAIL
DI-4	DROP INLET	N=394735.63 E=2416248.06	84.67'	5/C-312
DI-18	DROP INLET	N=394567.97 E=2416302.52	85.11'	5/C-312
DI-19	DROP INLET	N=394666.47 E=2416396.30	85.71'	5/C-312
ES-2	FES	N=394940.38 E=2416433.14		2/C-314
ES-7	FES	N=394680.88 E=2416419.68		2/C-314
HW-1	HEADWALL	N=394841.24 E=2416545.17		3/C-314
HW-2	HEADWALL	N=394930.89 E=2416451.02		5/C-314
JB-3	JUNCTION BOX	N=394914.76 E=2416467.97	86.42'	4/C-313



1 inch = 30 ft.









		PROPOSED CONCRETE SIDEWALK, SEE SHEET C-200 FOR DETAILS
		PROPOSED ASPHALT, SEE SHEET C-200 FOR DETAILS
	66661	PROPOSED GRAVEL, SEE SHEET C-200 FOR DETAILS
	<u> </u>	PROPOSED CONTOUR
		EXISTING CONTOUR
	1.50%	PROPOSED SLOPE
]	€69 <sub>.50</sub>	PROPOSED SPOT ELEVATION
1		

RTHING ASTING	RIM ELEV.	STRUCTURE DETAIL						
94112.35 416323.21	85.84'	1/C-313			DRAINAGE	PIPE TAE	BLE	
94228.21 416433.56	85.07'	1/C-313	PIPE NAME	SIZE	TYPE	LENGTH	INVERTS	SLOPE
94280.37 416483.19	84.91'	1/C-313	P-6	15"	RCP CLASS III	46'	INV IN=83.16 INV OUT=83.07	0.2%
94076.85 416145.14	86.67'	5/C-312	P-7	18"	RCP CLASS III	128'	INV IN=82.93 INV OUT=82.67	0.2%
94142.36 416076.34	86.96'	5/C-312	P-8	18"	RCP CLASS III	160'	INV IN=82.67 INV OUT=82.36	0.2%
94254.98 416183.57	87.00'	5/C-312	P-9	18"	RCP CLASS III	72'	INV IN=82.36 INV OUT=82.21	0.2%
94347.89 416327.44	87.42'	1/C-313	P-14	18"	RCP CLASS IV	95'	INV IN=83.52 INV OUT=83.33	0.2%
94189.47 416252.37	86.72'	5/C-312	P–15	24"	RCP CLASS IV	115'	INV IN=83.33 INV OUT=83.06	0.2%
93934.02 416154.57		1/C-314	P-18	24"	RCP CLASS IV	95'	INV IN=83.19 INV OUT=83.01	0.2%
93967.34 416186.28		1/C-314	P–19	24"	RCP CLASS IV	105'	INV IN=83.01 INV OUT=82.81	0.2%
94019.65 416234.94		2/C-314	P-22	24"	RCP CLASS IV	89'	INV IN=82.39 INV OUT=81.99	0.5%
94526.52 416708.86		2/C-314	P-23	18"	RCP CLASS IV	131'	INV IN=82.88 INV OUT=82.39	0.4%



LEGEND:		
	PROPOSED CONCRETE SIDEWALK, SEE SHEET C-200 FOR DETAILS	l
	PROPOSED ASPHALT, SEE SHEET C-200 FOR DETAILS	
65651	PROPOSED GRAVEL, SEE SHEET C-200 FOR DETAILS	
<u> </u>	PROPOSED CONTOUR	
	EXISTING CONTOUR	
1.50%	PROPOSED SLOPE	
• 69.50	PROPOSED SPOT ELEVATION	

			DRAINAGE STRUCTURE TABLE					
PIPE TAE	BLE				NORTHING		STRUC	
LENGTH	INVERTS	SLOPE	STRUCTURE NAME	TYPE	EASTING	RIM ELEV.	DET	
166'	INV IN=82.21 INV OUT=81.88	0.2%	DI-8	DROP INLET	N=394400.59 E=2416597.66	84.57'	1/C-31	
168'	INV IN=81.88 INV OUT=81.54	0.2%	DI-15	DROP INLET	N=394442.76 E=2416417.78	85.22'	1/C-31	
89'	INV IN=82.39 INV OUT=81.99	0.5%	DI-20	DROP INLET	N=394455.74 E=2416496.23	86.39'	5/C-31	
60'	INV IN=82.32 INV OUT=82.14	0.3%	DI-21	DROP INLET	N=394499.20 E=2416537.60	86.39'	5/C-31	
110'	INV IN=82.14 INV OUT=81.81	0.3%	ES-6	FES	N=394526.52 E=2416708.86		2/C-31	
60'	INV IN=81.99 INV OUT=81.81	0.3%	JB-1	JUNCTION BOX	N=394531.59 E=2416416.57	86.09'	4/C-31	
110'	INV IN=81.81 INV OUT=81.48	0.3%	JB-2	JUNCTION BOX	N=394575.05 E=2416457.94	86.10'	4/C-31	





![](_page_17_Figure_1.jpeg)

CTS/ONSLOW COUNTY/2023105900RA - OAJ TO#2 - SO. GA EXPANSION PREL. DESIGN/CADD/PLAN SET/SHEETS/20231059.00.1

![](_page_18_Figure_0.jpeg)

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ECT	ION E: GROUND STAE	BILIZATION	
	Re	equired Ground Stabi	ization Timeframes
Si	te Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d)	Slopes 3:1 to 4:1	14	<ul> <li>-7 days for slopes greater than 50' in length and with slopes steeper than 4:1</li> <li>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones</li> <li>-10 days for Falls Lake Watershed</li> </ul>
(e)	Areas with slopes flatter than 4:1	14	<ul> <li>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones</li> <li>-10 days for Falls Lake Watershed unless there is zero slope</li> </ul>

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH

Temporary Stabilization	Permanent Stabilization
<ul> <li>Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>Hydroseeding</li> <li>Rolled erosion control products with or without temporary grass seed</li> <li>Appropriately applied straw or other mulch</li> <li>Plastic sheeting</li> </ul>	<ul> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt or retaining walls</li> <li>Rolled erosion control products with grass seed</li> </ul>

# POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved *PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

## PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

# SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

(1) Rain gauge maintained in good working order       Daily       Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.         (2) E&SC       At least once per Measures       1. Identification of the measures inspected, 2. Date and time of the inspection, and within 24         A tore of a rain event ≥ 1.0 inch in 24 hours       2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of the discharge outfalls inspected, 2. Date and time of the inspection, 4. Indication of the discharge outfalls inspected, 2. Date and time of the inspection, 4. Name of the person performing the inspection, 4. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discolariton, 2. Indication of visible sediment leaving the site, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.         (4) Perimeter of site       At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours       If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 2. A explanation as to the actions taken to control future releases.         (5) Streams or wetfands onsite or	Inspect	Frequency (during normal business hours)	Inspection records must include:
<ul> <li>(2) E&amp;SC Measures At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain event ≥ 1.0 inch in 24 hours of a rain</li></ul>	(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(3) Stormwater discharge outfalls (SDOs)At least once per 7 calendar days and within 24 hours of a rain 24 hours1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, and within 24 shear, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.(4) Perimeter of siteAt least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hoursIf visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.(5) Streams or wetlands onsite or offsite (where accessible)At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hoursIf the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.(6) Ground stabilization measuresAfter each phase of grading1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures how ho	(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ol> <li>Identification of the measures inspected,</li> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Indication of whether the measures were operating properly,</li> <li>Description of maintenance needs for the measure,</li> <li>Description, evidence, and date of corrective actions taken.</li> </ol>
<ul> <li>(4) Perimeter of site</li> <li>At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</li> <li>(5) Streams or wetlands onsite or offsite hours of a rain a diwithin 24 hours of a rain event ≥ 1.0 inch in 24 hours</li> <li>(5) Streams or wetlands onsite or following and within 24 hours of a rain 2 4 hours</li> <li>(6) Ground stabilization measures</li> <li>(6) Ground stabilization of grading</li> <li>After each phase of grading</li> <li>(7) Ground a streach phase of grading</li> <li>(8) Ground a streach phase of grading</li> <li>(9) Ground a streach phase of grading</li> <li>(10) Inch in 24 hours</li> <li>(11) The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction that the required ground stabilization measures how how previded within the required ground stabilization</li> </ul>	(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ol> <li>Identification of the discharge outfalls inspected,</li> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> <li>Indication of visible sediment leaving the site,</li> <li>Description, evidence, and date of corrective actions taken.</li> </ol>
<ul> <li>(5) Streams or wetlands onsite or offsite (where accessible)</li> <li>(6) Ground (6) Ground stabilization measures</li> <li>(6) Ground (7) Grou</li></ul>	(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ul> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>1. Actions taken to clean up or stabilize the sediment that has left the site limits,</li> <li>2. Description, evidence, and date of corrective actions taken, and</li> <li>3. An explanation as to the actions taken to control future releases.</li> </ul>
<ul> <li>(6) Ground After each phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>2. Documentation that the required ground stabilization measures have heap provided within the required provided within</li></ul>	(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ul> <li>If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made:</li> <li>Description, evidence and date of corrective actions taken, and</li> <li>Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.</li> </ul>
timeframe or an assurance that they will be provided as soon as possible.	(6) Ground stabilization measures	After each phase of grading	<ol> <li>The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.</li> </ol>

# EQUIPMENT AND VEHICLE MAINTENANCE

# Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment.

- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project Collect all spent fluids, store in separate containers and properly dispose as
- hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem
- has been corrected. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products
- to a recycling or disposal center that handles these materials.

# LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff
- from upland areas and does not drain directly to a storm drain, stream or wetland Cover waste containers at the end of each workday and before storm events or
- provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- . Dispose waste off-site at an approved disposal facility.

# 9. On business days, clean up and dispose of waste in designated waste containers.

# PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site. 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

# PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

# EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

# PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

# SECTION B: RECORDKEEPING 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit The following items pertaining to the E&SC plan shall be documented in the manner described:

# Item to Document (a) Each E&SC Measure has been installed Initial and date each E&SC Measure on a copy and does not significantly deviate from the of the approved E&SC Plan or complete, date locations, dimensions and relative elevations and sign an inspection report that lists each shown on the approved E&SC Plan. installation. (b) A phase of grading has been completed. Initial and date a copy of the approved E&SC report to indicate completion of the construction phase. (c) Ground cover is located and installed in accordance with the approved E&SC ground cover specifications. (d) The maintenance and repair requirements for all E&SC Measures have been performed. (e) Corrective actions have been taken to E&SC Measures. report to indicate the completion of the corrective action.

# 2. Additional Documentation

- In addition to the E&SC Plan documents above, the following items shall be kept on the and available for agency inspectors at all times during normal business hours, unless the
- Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

![](_page_19_Figure_56.jpeg)

01	SELF-INSPECTION,	, RECORDKEEPI	NG AND R	EPORTING
	EFFEC	CTIVE: 04/01/19		

![](_page_20_Figure_1.jpeg)

![](_page_20_Figure_10.jpeg)

- 1. CONTRACTOR SHALL BE REQUIRED TO KEEP ALL EQUIPMENT WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.
- 2. CONTRACTOR SHALL MAINTAIN/REPAIR HAUL ROUTE AS NEEDED OR DIRECTED BY THE ENGINEER DURING CONSTRUCTION.
- 3. AFTER COMPLETION OF THE PROJECT, CONTRACTOR SHALL RESTORE HAUL ROUTES TO PRE-CONSTRUCTION CONDITIONS. CONTRACTOR SHALL ALSO SEED AND MULCH HAUL ROUTES PER DETAIL 4/C704
- 4. ALL EQUIPMENT MUST BE RETURNED TO THE APPROPRIATE STAGING AREA (TRACK VERSUS NON-TRACK VEHICLES) AT THE END OF EACH WORK DAY & WHEN NOT ENGAGED IN THE CONSTRUCTION DURING NON-WORKING DAYS & NIGHTS UNLESS OTHERWISE APPROVED BY THE OWNER. PLANS AND SPECIFICATIONS DESIGNATE AREAS FOR CONTRACTOR'S EMPLOYEES AUTO PARKING.
- 5. THE PROVISION & MAINTENANCE OF HAUL ROADS, HAUL ROAD STONE, TEMPORARY HAUL SLABS & STEEL PLATES SHALL BE CONSIDERED INCIDENTAL TO PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HAUL ROUTES IN USABLE CONDITION THROUGHOUT THE LIFE OF THE PROJECT. THE HAUL ROUTE AND ASSOCIATED FILTER SOCK COST SHALL BE INCIDENTAL TO THE PROJECT MOBILIZATION
- 6. SILT FENCE REQUIRED TO PROTECT SEDIMENT FROM LEAVING THE HAUL ROUTE. SILT FENCE SHALL BE CONSIDERED INCIDENTAL TO THE MOBILIZATION PAY ITEM.

2	CONTRACTOR'S HAUL ROUTE
C-310	NTS

# CONSTRUCTION SEQUENCE (CONT'D):

- THIS SHEET DETAIL 4.
- CONTROL PERMIT.
- 12. DEMOBILIZE FROM SITE.
- ALL PRACTICES AS DESIGNED.
- THE PLANS.
- SEEDED AND MULCHED.

# SELF-INSPECTION PROGRAM:

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1ST, 2010. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS MUST BE CONDUCTED AFTER EACH PHASE OF THE PROJECT. AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH THE NPDES GROUNDCOVER TIMETABLE. THE SELF-INSPECTION AND SELF-MONITORING COMBINED FORM IS AVAILABLE AS A PDF FROM: HTTPS://DEQ.NC.GOV/ABOUT/DIVISIONS/ENERGY-MINERAL-LAND-RESOURCES/ EROSION-SEDIMENT-CONTROL/FORMS. IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THE WILMINGTON REGIONAL OFFICE AT 910-796-7215.

	TYPE	RATE
SEPT. 15	BLEND OF TWO TURF-TYPE TALL FESCUES (90%) AND TWO OR MORE KENTUCKY BLUEGRASS VARIETIES (10%)	200 - 250 LB/ACRE
GENTLE SLOPES, DRIE	R SOILS, PHYSICAL LIMITATIONS	
	TYPE	RATE
SEPT. 15	BLEND OF 50% KY-31 TALL FESCUE AND 50% MIXTURE OF TWO OR MORE TURF TYPE TALL FESCUES	200 - 250 LB/ACRE
	TYPE	RATE
JUNE 30	COMMON BERMUDA GRASS	40 - 80 LB/ACRE OR 1 - 2 LB/1000 SF

AMENDMENTS SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER. DRY SOIL, GRASS-LINED CHANNELS SHALL USE 3000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE OF 10-10-10 FERTILIZER. MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH ASPHALT. NETTING OR MULCH ANCHORING TOOL. JUTE OR EXCELSIOR MATTING SHALL BE USED IN GRASS LINED CHANNELS TO CALCULATED HIGH WATER DEPTH.

SODDING GRASS TYPE TO BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. SOD SELECTED SHALL BE NC STATE CERTIFIED. SOD SHALL BE

# GENERAL NOTES AND CONSTRUCTION SEQUENCE

- GENERAL NOTES INSTALLATION OF EROSION CONTROL DEVICES SHALL COINCIDE WITH THE CONSTRUCTION PHASING PLAN AND AS SHOWN ON PLAN SHEET G-101. E&S CONTROLS SHALL BE INSTALLED DOWNSLOPE OF THE PROPOSED DISTURBANCE AS SHOWN ON THE PLANS AND SHALL BE PROPERLY FUNCTIONING BEFORE
- ANY LAND DISTURBANCE TAKES PLACE. 2. EACH PHASE IS TO BE WORKED UNTIL COMPLETION PER THE PHASING PLAN AND NOTES. EACH PHASE
- MUST BE COMPLETED BEFORE PROCEEDING TO THE NEXT PHASE. 3. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD AT LEAST SEVEN-DAYS PRIOR TO CONSTRUCTION
- 4. THE CONTRACTOR SHALL CONTACT THE DEMLR WILMINGTON REGIONAL OFFICE AT 910-796-7215 FOR NOTIFICATION OF PLANNED CONSTRUCTION ACTIVITIES. THE NOTIFICATION SHALL BE AT LEAST 72 HOURS PRIOR TO LAND DISTURBING ACTIVITIES.
- 5. A COPY OF THE APPROVAL LETTER AND COPIES OF THE SELF-INSPECTION REPORTS SHALL ALWAYS BE KEPT ON SITE. THE CONTRACTOR SHALL KEEP RECORDS CURRENT UNTIL THE SITE IS RELEASED BY THE WILMINGTON REGIONAL OFFICE.
- 6. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION.
- 7. EXISTING TOPOLOGY REPRESENTS SITE CONDITIONS AT TIME OF SURVEY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES BETWEEN WHAT IS FOUND IN THE FIELD AND WHAT IS SHOWN ON THE PLANS TO THE OWNER PRIOR TO CONSTRUCTION. REWORK DUE TO CONTRACTORS FAILURE TO VERIFY EXISTING CONDITIONS WILL BE COMPLETED AT THE EXPENSES OF THE CONTRACTOR
- 8. ALL SEEDING AND MULCHING SHALL BE APPLIED VIA HYDROSEEDING/HYDROMULCHING METHODS.
- 9. A GRASS STAND SHALL BE CONSIDERED ADEQUATE WHEN BARE SPOTS ARE ONE SQUARE FOOT OR LESS, RANDOMLY DISPERSED, AND DO NOT EXCEED 3% OF THE AREA SEEDED.
- 10. AREAS THAT WASHOUT DUE TO STORM EVENTS WILL NOT RECEIVE MULTIPLE PAYMENTS FOR RE-SEEDING THESE AREAS. THE CONTRACTOR SHALL REPAIR WASHED OUT AREAS AT NO ADDITIONAL COST TO THE OWNER.
- 11. CONTRACTOR SHALL MAINTAIN A COPY OF THE CERTIFICATE OF COVERAGE FOR LAND DISTURBANCE AND EROSION CONTROL PERMIT APPROVAL ONSITE THROUGHOUT CONSTRUCTION. CONSTRUCTION SHALL BE GENERALLY SEQUENCED AS NOTED BELOW.

# CONSTRUCTION SEQUENCE

- 1. MOBILIZE ON SITE, ESTABLISH LIMITS OF DISTURBANCE AND SET UP STAGING AREAS.
- 2. INSTALL TEMPORARY CONSTRUCTION ENTRANCES.
- 3. INSTALL PHASE 1 EROSION CONTROL DEVICES, PERIMETER CONTROLS, DIVERSION DITCHES, AND BASINS AS SHOWN ON THE PLAN SHEETS AND IN ACCORDANCE WITH THE PHASING PLAN SEQUENCE. THE EROSION CONTROL DEVICES SHALL BE INSTALLED AND PROPERLY FUNCTIONING PRIOR TO LAND DISTURBANCE ACTIVITIES. REFER TO THE GRADING AND EROSION CONTROL PLAN - PHASE 1 FOR PROPOSED EROSION CONTROL MEASURES (PLAN SHEET C-301). THE CONTRACTOR SHALL ENSURE THAT THE PIPE PROTECTION DEVICES ARE INSTALLED AS SHOWN ON THE PLANS.
- 4. ONCE THE EROSION CONTROL DEVICES ARE INSTALLED FOR THE INITIAL GRADING AND EROSION CONTROL PLANS, PER PLAN SHEETS C-301 IN ACCORDANCE WITH THE APPROVED PLAN DRAWINGS, THE CONTRACTOR MAY PROCEED WITH PHASE 1 WORK OUTSIDE OF THE TOFA.
- 5. AS CONSTRUCTION PROGRESSES THE CONTRACTOR SHALL INSTALL EROSION CONTROL DEVISE AS SHOWN ON SHEETS C-301-C-306. THE CONTRACTOR SHALL ENSURE ALL DEVICE ARE WORKING PROPERLY AND FOLLOW MAINTENANCE MEASURES. EROSION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED PER THE APPROVED PLANS AND DETAILS.

ITEM

(12" MIN.)

EXISTING C

![](_page_20_Figure_59.jpeg)

\* SEE DETAIL 2/C705 FOR INSTALLATION & MAINTENANCE OF FILTER SOCK NOTE: STOCKPILE HEIGHTS SHALL NOT EXCEED 25 FEET. STOCKPILE SLOPES SHALL BE 3:1 OR FLATTER.

# INSTALLATION AND MAINTENANCE NOTES

1. FILTER SOCK TO EXTEND AROUND THE ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE FILTER SOCK IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.

2. IF STOCKPILE IT TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.

3. FILTER SOCK SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.

4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL

5. STOCKPILE AREA SHALL BE INCIDENTAL TO MOBILIZATION.

6. SILT FENCE ASSOCIATED WITH STOCKPILE AREAS TO MAINTAIN SEDIMENT AND EROSION CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE MOBILIZATION PAY

# **TYPICAL STOCKPILE DETAIL**

NTS

6. CONTRACTOR SHALL MODIFY AND REARRANGE EROSION AND SEDIMENT CONTROL DEVICES TO CORRESPOND TO PROJECT PHASING NOTED ON THE PHASING PLAN. SHEET G-101.

7. AS CONSTRUCTION PROGRESSES THE CONTRACTOR SHALL ENSURE ALL AREAS ARE STABILIZED PER THE SEEDING SCHEDULE SHOWN ON PLAN SHEET C-310.

8. UPON THE COMPLETION OF PHASE 1, CONTRACTOR SHALL STABILIZE THE SITE AND PROGRESS TO PHASE 2 WORK ON THE HANGARS AND FINAL PAVEMENT MARKINGS. MAINTAIN ALL EROSION CONTROL PRACTICES THROUGH PROJECT STABILIZATION.

9. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE-OUT VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT. FOR FINAL SITE CONDITIONS REFER TO THE FINAL GRADING AND EROSION CONTROL PLANS (SHEET C-306). THESE PLANS DEPICT FINAL SITE CONDITIONS.

10. UPON APPROVAL FROM THE NCDEQ INSPECTOR AND THE ENGINEER, REMOVE TEMPORARY EROSION CONTROL MEASURES AND RE-STABILIZE ANY DISTURBED AREAS PER THE SEEDING SCHEDULE SHOWN ON

11. CONFIRM APPROVAL OF STABILIZATION FROM NCDEQ AND OWNER PRIOR TO CLOSEOUT OR EROSION

EROSION CONTROL MAINTENANCE MEASURES

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND FUNCTIONALITY FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY BY THE CONTRACTOR TO MAINTAIN

2. GROUND COVER SHALL BE IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES. SEE THE GROUND COVER SCHEDULE FOUND IN DETAIL 4 OF SHEET C-310 OF

3. ALL EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED BY THE CONTRACTOR THROUGHOUT THE COURSE OF THE PROJECT AND UNTIL A VIGOROUS STAND OF PERMANENT GRASS GROUNDCOVER HAS BEEN ESTABLISHED AND ACCEPTED. REFER TO THE PLAN SHEETS FOR DETAILED MAINTENANCE OF EACH PLANNED EROSION CONTROL MEASURES.

I. ONCE IT HAS BEEN DETERMINED BY THE ENGINEER OR NCDEQ THAT CONSTRUCTION IS COMPLETE AND ADEQUATE PERMANENT GRASS GROUNDCOVER HAS BEEN ESTABLISHED, ALL TEMPORARY EROSION CONTROL FEATURES SHALL BE REMOVED, AND THE AREAS AFFECTED BY THE REMOVAL SHALL BE

5. TOTAL DISTURBED AREA FOR THIS PROJECT: 14 Acres.

NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL

![](_page_20_Figure_84.jpeg)

![](_page_21_Figure_0.jpeg)

# **INSTALLATION NOTES:**

# SITE PREPARATION

GRADE AND COMPACT AREA.

REMOVE ALL ROCKS, CLODS, VEGETATION, AND OBSTRUCTIONS SO THAT MATTING WILL HAVE DIRECT CONTACT WITH THE SOIL.

PREPARE SEEDBED BY LOOSENING 3 TO 4 INCHES OF TOPSOIL ABOVE FINAL GRADE. TEST SOILS FOR ANY NUTRIENT DEFICIENCIES AND SUBMIT SOIL TEST RESULTS TO

THE ENGINEER. APPLY ANY TREATMENT SUCH AS LIME OR FERTILIZERS TO THE SOIL IF NEEDED.

DO NOT MULCH AREAS WHERE MAT IS TO BE INSTALLED.

# <u>SEEDING</u>

SEE DETAIL 4/C44 FOR SEEDING REQUIREMENTS.

APPLY SEED TO SOIL BEFORE PLACING MATTING.

**INSTALLATION - CHANNEL BANK** 

# OVERLAP ADJACENT MATS 3" AND ANCHOR EVERY 12" ACROSS THE OVERLAP. THE HIGHER ELEVATION MAT SHOULD BE PLACED OVER THE LOWER ELEVATION MAT.

EDGES SHOULD BE SHINGLED AWAY FROM THE FLOW OF WATER.

DIRECTION OF FLOW START NEW ROLL IN CHECK SLOT OVERLAP MINIMUM 1' FIGURE INTERMITTENT CHECK SLOT/ BEGINNING OF NEW ROLL

LAY MAT LOOSE TO ALLOW CONTACT WITH SOIL. DO NOT STRETCH TIGHT

ANCHOR MAT USING BIODEGRADABLE STAKES OR PINS.

EXCAVATE INITIAL ANCHOR TRENCH 12"X6" ACROSS TOE OF BANK AT THE LOWER END OF EACH AREA TO RECEIVE EROSION CONTROL MATTING. ANCHOR TRENCH TO BE A MINIMUM OF 1' OFF OF TOE OF BANK. SEE FIGURE 1 FOR TOE SLOPE ANCHOR TRENCH

PLACE 6" x 6" CHECK SLOTS AT 30' INTERVALS ALONG THE BANK. SEE FIGURE 2. CUT 4" x 4" TRENCH ALONG TOP OF BANK FOR MAT TERMINATION AS SHOWN IN

FIGURE 3 EXTEND MAT 3 FEET PAST TOP OF BANK BEGINNING AT THE DOWNSTREAM END OF THE AREA TO BE LINED. PLACE THE END OF

THE ROLL IN TOE SLOPE ANCHOR TRENCH AND SECURE WITH BIODEGRADABLE STAKES OR PINS SEE FIGURE 1 PLACE ADJACENT ROLLS IN THE ANCHOR TRENCH WITH A MINIMUM OF 3" OVERLAP.

SECURE WITH BIODEGRADABLE STAKES OR PINES, BACKFILL ANCHOR TRENCH, AND COMPACT SOIL.

UNROLL MAT OVER COMPACTED ANCHOR TRENCH, STOP AT NEXT CHECK SLOT OR TERMINAL ANCHOR.

UNROLL ADJACENT ROLLS IN SAME MANNER, WITH A MINIMUM OF 3" OF OVERLAP.

TRENCH AT TOE OF BANK.

![](_page_21_Figure_28.jpeg)

![](_page_21_Figure_29.jpeg)

![](_page_21_Figure_30.jpeg)

# MAINTENANCE:

INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING. CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER.

![](_page_21_Picture_34.jpeg)

![](_page_21_Figure_35.jpeg)

NTS

![](_page_21_Figure_36.jpeg)

# STAPLE AT 12" INTERVALS ALONG OVERLAP.

FOLD AND SECURE MAT ROLLS TIGHTLY INTO CHECK SLOTS. LAY MAT IN CHECK SLOT. FOLD BACK AGAINST ITSELF, ANCHOR THROUGH BOTH LAYERS, BACKFILL AND COMPACT SOIL, CONTINUE ROLLING MAT UPSTREAM. SEE FIGURE 2.

BEGIN NEW ROLLS IN CHECK SLOT, AND OVERLAP ENDS MINIMUM OF 1'.

STREAM BANK MATTING TO BE INSTALLED FROM TOE OF BANK TO TOP OF BANK. SEE FIGURE 3 FOR TERMINATION AT TOP OF BANK AND FIGURE 1 FOR INITIAL ANCHOR

SEE FIGURE 3 FOR TERMINATION AT UPSTREAM END.

![](_page_21_Figure_42.jpeg)

![](_page_21_Figure_43.jpeg)

- 100 % NATURAL MATERIALS WOVEN INTO A HIGH STRENGTH MATRIX. MATTING MUST BE NET FREE AND **BIODEGRADABLE OR CONTAIN A RAPID**
- DEGRADING NETTING. SHEAR STRESS – 2.4 LBS/SQFT • FLOW VELOCITY- OBSERVED 6 FT/SEC
- AINTENANCI INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (<sup>1</sup>/<sub>2</sub> INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.
- GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
- 3. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
- 4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
- 5. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

# MAINTENANCE:

INSPECT CHECK DAMS AND CHANNELS FOR DAMAGE AFTER EACH RUNOFF EVENT. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL A PROTECTIVE RIP-RAP LINER IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE FIBER CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. FIBER CHECK DAM SHALL BE CLEANED OUT WHEN 50% OF STORAGE CAPACITY HAS BEEN FILLED IN WITH SEDIMENT. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.5 INCH.

GROUND ON UPSTREAM & DOWNSTREAM SIDE OF ROLL

BACKFILL AND COMPACT-LOOSE MATERIAL UPSTREAM

NOTES:

1. TEMPORARY FIBER CHECK DAMS SHALL BE LOCATED AS SHOWN ON THE PLANS.

\*L = THE DISTANCE SUCH THAT POINTS

A AND B ARE OF EQUAL ELEVATION

- 2. BEFORE INSTALLATION OF FIBER ROLL, SMOOTH AND SHAPE EARTH SURFACE AND REMOVE ALL STONES, ROOTS, OR OTHER DEBRIS GREATER THAN 2 INCHES IN DIAMETER.
- 3. EXCAVATE A TRENCH 3 INCHES DEEP FOR PLACEMENT OF EACH ROLL.
- 4. STAKES SHALL BE 24" IN LENGTH SPACED 1 FOOT ON CENTER ON THE UPSTREAM & DOWNSTREAM SIDE OF THE FIBER ROLL.
- 5. FABRIC OF FIBER ROLL SHALL BE STAPLED INTO THE GROUND APPROXIMATELY 1 INCH UPSTREAM OF THE EDGE OF THE ROLL.
- 6. PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM THE PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH FIBER CHECK DAM ROLL.
- 7. INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER FIBER CHECK DAM WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF FIBER CHECK DAM.

![](_page_21_Figure_66.jpeg)

![](_page_21_Figure_67.jpeg)

**SECTION A-A** 

NOTE: ALL ITEMS AND LABOR NECCESSARY FOR INSTALLATION, MAINTENANCE, REMOVAL, AND RESTORATION OF TEMPORARY ROCK PIPE INLETPROTECTION SHALL BE PAID FOR UNDER ITEM C-102-13.

ROCK PIPE INLET PROTECTION

NTS

![](_page_21_Figure_72.jpeg)

![](_page_21_Picture_73.jpeg)

![](_page_21_Figure_74.jpeg)

![](_page_21_Figure_75.jpeg)

![](_page_21_Figure_82.jpeg)

TERMINAL CHANNEL ANCHOR TRENCH

\* CHANNEL SLOPES SHOWN IN THE TABLE ARE AN AVERAGE. SEE PLAN SHEETS FOR SPOT ELEVATIONS AND SLOPE LOCATIONS.

	DITCH DIMENSIONS								
		А	CHANNEL SLOPE*	SHEET LOCATION					
	DITCH D-6	1.0'	0.3%	C-301					
3									
' A									

1. ALL DITCHES LISTED WILL BE LINED PER DETAIL 1 ON THIS SHEET.

2. EROSION CONTROL MATTING ASSOCIATED WITH DIVERSION DITCHES SHALL BE INCIDENTAL TO THE DIVERSION DITCH PAY ITEM.

3. TEMPORARY DIVERSION DITCHES WILL ONLY BE PAID PER LINEAR FOOT AT INITIAL INSTALLATION PER PLANS.

![](_page_21_Figure_90.jpeg)

![](_page_22_Figure_0.jpeg)

1. THE KEY TO FUNCTIONAL SILT FENCE IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND

2. REGULAR INSPECTIONS OF SILT FENCE SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE

3. ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.

5. REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS

6. CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT

7. CHECK FOR TEARS WITHIN THE SILT FENCE, AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVED

8. SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

# 1. DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS

2. MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100-FEET.

4. SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:

OVERLAP SILT FENCE BY INSTALLING 3-FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES; OR, OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT

5. ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY

6. INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT

7. INSTALL SILT FENCE CHECKS (TIE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE

STEEL T POSTS

1.25 LB/LF: L=5' MIN.

![](_page_22_Figure_17.jpeg)

![](_page_22_Figure_18.jpeg)

![](_page_22_Figure_19.jpeg)

NSPECT THE SILT FENCE OUTFALL AT

![](_page_22_Figure_23.jpeg)

-16"	

WITH 1/4" MESH OPENING

MIN 19 GAUGE HARDWARE CLOTH

NCDOT # 5 OR #57 WASHED STONE

STRUCTURE NAME

![](_page_22_Picture_34.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

![](_page_24_Figure_4.jpeg)

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_2.jpeg)

-	SKIMN
	BASIN
	1
	2

![](_page_25_Figure_4.jpeg)

![](_page_25_Picture_5.jpeg)

![](_page_25_Picture_6.jpeg)

	TOP	TOP	
BASIN	WIDTH	LENGTH	L1
	(FT)	(FT)	(
1	60	125	3
2	28	85	2

![](_page_25_Picture_8.jpeg)

MATERIA

![](_page_25_Picture_9.jpeg)

VARIABLI DEPTH

- EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.
- 2. REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.
- 3. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.
- 4. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.
- 5. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.
- 6. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

PROVIDED	SKIMMER	ORIFICE	TOP OF	BOT. OF	SPILLWAY	SKIMMER	SEDIMENT	DISCHARGE	DRAINAGE	
JRFACE AREA	SIZE	SIZE *	DAM	BASIN	CREST	CREST	CLEANOUT	PIPE	AREA	z
(SF)	(IN)	(IN)	(ELEV.)	(ELEV.)	(ELEV.)	(ELEV.)	(ELEV.)	(INCHES)	(AC)	(FT)
7,500	3	1.75	85.00	81.00	84.50	84.00	82.70	12	5.60	3
2,380	3	1.0	86.00	81.50	85.00	84.50	83.20	6	3.15	3

(\*) ORIFICE SIZE APPLIES TO PVC PIPE FROM SKIMMER TO EXITING ORIFICE.

![](_page_26_Figure_0.jpeg)

![](_page_27_Figure_1.jpeg)

# NOTES:

- 1. PAVEMENT MARKING SYMBOLS FOR ADA PARKING SPACES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS. SYMBOLS SHALL BE PAID PER EACH UNDER THE "PAVEMENT SYMBOLS" PAY ITEM.
- 2. PARKING SPACE LINES SHALL BE PAID PER SQUARE FOOT UNDER THE "PAVEMENT MARKING" PAY ITEM.

![](_page_27_Figure_5.jpeg)

# NOTES:

CONTRACTOR SHALL FURNISH AND INSTALL WHEEL STOPS AS SHOWN ON THE PLANS. WHEEL STOPS SHALL BE PAID PER EACH UNDER THE CONCRETE WHEEL STOP PAY ITEMS.

![](_page_27_Picture_8.jpeg)

![](_page_27_Figure_9.jpeg)

MANUFACTURER'S INSTALLATION REQUIREMENTS AND SPECIFICATIONS

# ACCESSIBILITY PARKING SIGN NOTES

A. ACCESSIBLE PARKING SPACES SHALL BE IN ACCORDANCE WITH THE REGULATIONS SET FORTH BY THE AMERICANS WITH DISABILITIES ACT (ADA), THE NC DEPARTMENT OF TRANSPORTATION, THE NC DIVISION OF MOTOR VEHICLES ADA REQUIREMENTS, THE NC STATE BUILDING CODE, AND ICC A 117.1. ALL ACCESSIBLE SPACES SHALL BE IDENTIFIED BY PAVEMENT MARKINGS AND BY APPROPRIATE SIGNAGE APPROVED BY THE NC DEPARTMENT OF TRANSPORTATION. ACCESSIBLE PARKING SHALL BE REQUIRED ON ALL MULTI-FAMILY AND NONRESIDENTIAL SITES.

B. PROVIDE TWO (2) (SIGNS "A" & "B") AT EACH ACCESSIBLE SPACE, SEE SHEET C-400 FOR LOCATIONS. C. INCLUDE ONE (1) (SIGN "C") VAN ACCESSIBLE SIGN WHERE NEEDED. SEE SHEET C-400 FOR LOCATIONS. D. HANDICAP SIGNAGE PAID FOR UNDER THE "PARKING LOT SIGNAGE" PAY ITEM.

![](_page_27_Figure_14.jpeg)

MARKING NOTES

- 1. PROPOSED TAXIWAY CENTERLINE PAVEMENT MARKINGS SHALL CONFORM TO FAA SPECIFICATION P-620.
- 2. TAXIWAY CENTERLINE AND HANGAR LEAD-IN LINE MARKINGS SHALL BE 6" WIDE REFLECTIVE AVIATION YELLOW WITH GLASS BEADS.
- 3. TAXIWAY CENTERLINE PAVEMENT MARKINGS ON NEW AND EXISTING TAXILANE PAVEMENT SHALL HAVE A BLACK BORDER THAT EXTENDS 6" EITHER SIDE BEYOND YELLOW MARKING. GLASS BEADS SHALL NOT BE USED IN BLACK PAINT. BLACK BORDERS FOR TAXIWAY CENTERLINE MARKINGS ARE INCIDENTAL TO THE "PAVEMENT MARKING, PERMANENT, YELLOW, REFLECTIVE" PAY ITEMS.
- 4. PAVEMENT MARKINGS SHALL BE APPLIED A MINIMUM OF 30 DAYS AFTER PAVEMENT HAS BEEN INSTALLED.

![](_page_27_Picture_20.jpeg)

![](_page_27_Figure_21.jpeg)

# INTERNATIONAL SYMBOL OF ACCESSIBILITY NOTES A. SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. B. BOTTOM OF SYMBOL TO BE LOCATED 2'-6" FROM ACCESS DRIVE, INTO PARKING SPACE.

![](_page_27_Figure_24.jpeg)

BLUE BACKGROUND WITH WHITE SYMBOL CONTRASTING BLUE BACKGROUND

C. SYMBOL IS REQUIRED TO HAVE A WHITE SYMBOL WITH BLUE BACKGROUND. . ADA PARKING SPACE SIGNAGE PAID FOR UNDER THE "PAVEMENT SYMBOLS" PAY ITEM.

# ADA STRIPING

C-401 / NOT TO SCALE

![](_page_27_Figure_29.jpeg)

![](_page_28_Figure_1.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_30_Figure_0.jpeg)

![](_page_30_Figure_1.jpeg)

![](_page_30_Figure_2.jpeg)

![](_page_30_Figure_3.jpeg)

	0	L AND	GREAS	SE TRA	٨P			
		DIMEN	SION C	HART				
CAP	(GAL.)	DIM "A"	DIM "B"	DIM "C"	DIM "D"			
1	000	9'0"	5'0"	7'2"	4'2"			
1	250	9'0"	5'0"	7'2"	5'2"			
1	500	11'2"	5'8"	7'2"	4'4"			
1	750	11'2"	5'8"	7'2"	4'11"			
2	2000	12'8"	6'8"	8'0"	4'7"			
2	2500	12'8"	6'8"	8'0"	5'6"			
2	2750	12'8"	6'8"	8'0"	6'0"			
72	3000	15'7"	9'7"	8'6.5"	5'0"			
4	+000	15'7"	9'7"	8'6.5"	6'3"			
5	5000	19'11"	9'11"	8'11"	6'2"			
6	5000	19'11"	9'11"	10'5"	7'2"			
<ol> <li>MESH: ASTM A-185 GRADE 65</li> <li>DESIGN: ACI 318-83 BUILDING CODE ASTM C-857 MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES</li> <li>LOADS: H-20 TRUCK WHEEL WITH 30% IMPACT PER AASHTO</li> <li>FILL WITH CLEAN WATER PRIOR TO START UP OF SYSTEM</li> <li>CONTRACTOR TO SUPPLY AND INSTALL ALL PIPING, SANITARY TEE'S, AND 4" DUAL SWEEP CLEAN OUTS (FOR CLEANING TOWARD AND AWAY FROM TRAP ON BOTH THE INLET AND OUTLET SIDE).</li> <li>GRAY WATER ONLY, BLACK WATER SHALL BE CARRIED BY SEPARATE SEWER.</li> </ol>								
4. [ 5. ] 6. ] 7. ( 8. ( 9. )	DESIGN: AC DESIGN LOA LOADS: H: FILL WITH ( CONTRACTO DUAL SWEE BOTH THE GRAY WATEI ALL PIPE F EALL PIPE WA	A A-185 GRADE I 318-83 BUILDI ADING FOR UNDER 20 TRUCK WHEEL CLEAN WATER PRI R TO SUPPLY AN P CLEAN OUTS ( INLET AND OUTLE R ONLY, BLACK M TENTRATIONS SH	60 65 NG CODE ASTM C RGROUND PRECAS WITH 30% IMPAC OR TO START UP ID INSTALL ALL P FOR CLEANING TC T SIDE). WATER SHALL BE ALL BE THROUGH 2011		STRUCTURAL ITY STRUCTURES FEE's, AND 4" FROM TRAP ON ARATE SEWER. NECTOR AND			
4. [ 5. ] 6. ] 7. ( 8. ( 9. )	DESIGN: AC DESIGN: LOA LOADS: H-: FILL WITH ( CONTRACTO DUAL SWEE BOTH THE GRAY WATEI ALL PIPE P SEALED WA	A A-185 GRADE I 318-83 BUILDI ADING FOR UNDEF 20 TRUCK WHEEL CLEAN WATER PRI R TO SUPPLY AN P CLEAN OUTS ( INLET AND OUTLE R ONLY, BLACK N TERTIGHT WITH GI ONLY WITH GI	60 65 NG CODE ASTM C RGROUND PRECAS WITH 30% IMPAC OR TO START UP ID INSTALL ALL P FOR CLEANING TO T SIDE). WATER SHALL BE ALL BE THROUGH ROUT.		TRUCTURAL ITY STRUCTURES FEE'S, AND 4" FROM TRAP ON ARATE SEWER. NECTOR AND			
4. [ 5. ] 6. [ 7. ( 8. ( 9. )	UESIGN: AC DESIGN: AC DESIGN LOADS: H: FILL WITH C CONTRACTO DUAL SWEE BOTH THE GRAY WATEI ALL PIPE P SEALED WA	A 185 GRADE I 318-83 BUILDI DING FOR UNDEF 20 TRUCK WHEEL CLEAN WATER PRI R TO SUPPLY AN P CLEAN OUTS ( INLET AND OUTLE R ONLY, BLACK N PENETRATIONS SH. TERTIGHT WITH GI SE WITH "ONWASA M	60 65 NG CODE ASTM C RGROUND PRECAS WITH 30% IMPAG OR TO START UP ID INSTALL ALL P FOR CLEANING TO T SIDE). WATER SHALL BE ALL BE THROUGH ROUT.	5-857 MINIMUM S T CONCRETE UTIL T PER AASHTO OF SYSTEM IPING, SANITARY WARD AND AWAY CARRIED BY SEP, A FLEXIBLE CON	STRUCTURAL ITY STRUCTURES TEE's, AND 4" FROM TRAP ON ARATE SEWER. NECTOR AND			

![](_page_30_Figure_5.jpeg)

![](_page_30_Figure_6.jpeg)

![](_page_31_Figure_0.jpeg)

		NS (FT)         VILUME CUNCRETE (U, Y)           100         1.00         0.04           100         1.50         0.06           1.00         1.50         0.06           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.28           2.00         2.50         0.28           2.00         2.50         0.28           2.00         2.50         0.23           2.00         2.50         0.42           2.00         3.00         0.51           2.50         3.00         0.61           2.00         3.00         0.51           2.00         3.00         0.51           2.00         3.00         0.51 <tr< th=""><th></th></tr<>	
		HP         TP           100         1.00         0.04           100         1.50         0.06           100         1.50         0.06           100         1.50         0.06           1.50         2.50         0.15           1.50         2.50         0.12           1.00         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.15           1.50         2.50         0.28           2.00         2.50         0.28           2.00         2.50         0.23           2.00         2.50         0.42           2.00         3.00         0.50           2.00         3.00         0.28           2.00         3.00         0.41           3.00         3.01         1.13           3.00         3.00         0.51           3.00	
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# GENERAL NOTES

- PROJECT PAY ITEMS: THE PROJECT PAY ITEMS ARE PROVIDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEM IS TO BE CONSIDERED REQUIRED WORK TO COMPLETE THE PROJECT. AND IS TO BE SUBSIDIARY TO THE COST OF PROJECT PAY ITEMS PROVIDED.
- 2. WHENEVER, IN THE CONTRACT DOCUMENTS, THE WORDS "PROVIDE", "FURNISH", "INSTALL", "FURNISH AND INSTALL", OR OTHER WORDS OF LIKE IMPORT ARE USED, IT SHALL BE UNDERSTOOD THAT THE INTENT OF THE CONTRACT DOCUMENTS IS TO PROVIDE FOR THE CONSTRUCTION AND COMPLETION IN EVERY DETAIL OF THE WORK DESCRIBED. IT IS FURTHER INTENDED THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, TESTING AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS (PLANS), SPECIFICATIONS AND TERMS OF THE CONTRACT.
- 3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, ETC., PRIOR TO COMMENCEMENT OF WORK. THE COST OF PERMITS, LICENSES, ETC., SHALL BE INCIDENTAL TO AND INCLUDED IN THE BID PRICE FOR THE RESPECTIVE PAY ITEMS.
- 4. CIVIL INFORMATION IS SHOWN ON ELECTRICAL DRAWINGS FOR REFERENCE ONLY.
- ITEMS SHOWN IN SCREEN (GHOST) ARE CIVIL AND EXISTING ELECTRICAL 5 ITEMS. ITEMS SHOWN IN SOLID (BOLD) ARE NEW ELECTRICAL ITEMS TO BE INSTALLED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED.
- ALL EXCAVATION WITHIN 5 FEET OF AN UNDERGROUND UTILITY SHALL BE 6 PERFORMED BY HAND EXCAVATION METHODS. IF ENCOUNTERED, EXISTING DIRECT BURIED CABLES TO REMAIN SHALL BE ENCLOSED IN SPLIT DUCT AND ENCASED IN A 3" ENVELOPE OF P-610 CONCRETE UNDER THE FOLLOWING CONDITIONS:
  - A. WHEN WITHIN 20 FEET OF EXCAVATION, TRENCHING, ETC.
  - B. WHEN PAVEMENT WIDENING OR EXTENSIONS WILL BE ROUTED OVER THE EXISTING CABLE. THE SPLIT DUCT WILL EXTEND 20 FEET BEYOND THE NEW EDGE OF PAVEMENT.
  - C. WHEN ENCOUNTERED DURING CONSTRUCTION.
  - D. WHEN SUBJECT TO DAMAGE, IN THE OPINION OF THE OWNER/ENGINEER, FROM CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BEFORE STARTING CONSTRUCTION. VISIT THE SITE OF THE PROJECT AND VERIFY EXISTING CONDITIONS.
- EXISTING CONDUIT, DUCT BANK, CIRCUITING AND UTILITY INFORMATION IS BASED ON "AS-BUILT" AND "RECORD" DRAWINGS, AND SITE VISITS BY THE ENGINEER. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL NOT BE SCALED FOR EXACT LOCATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE UTILITY/ AGENCY, PRIOR TO STARTING WORK, AND STAKE/MARK THE LOCATION OF ALL EXISTING UTILITIES. ANY INTERRUPTION OF AN EXISTING SYSTEM OR UTILITY SERVICE SHALL BE COORDINATED AND APPROVED BY THE AUTHORITY, AGENCY OR UTILITY HAVING JURISDICTION, PRIOR TO STARTING WORK.
- 9. ALL EXISTING SYSTEMS/UTILITIES TO REMAIN SHALL BE PROTECTED FROM DAMAGE. REPLACEMENT OF ANY DAMAGED EXISTING SYSTEMS/ UTILITIES TO REMAIN SHALL BE AT NO ADDITIONAL COST TO THE OWNER. ALL DAMAGED SYSTEMS SHALL BE IMMEDIATELY REPAIRED WITHIN 24 HOURS TO THE SATISFACTION OF THE OWNER. FAA CABLES CANNOT BE SPLICED. DAMAGE TO FAA CABLES WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR COMPLETE REPLACEMENT OF THE FAA CABLE.
- 10. ELECTRICAL DEMOLITION WORK SHALL BE LIMITED TO THE AREAS AND SCHEDULES IDENTIFIED IN THE APPROVED PHASING PLAN. TEMPORARY JUMPER NEEDED TO MAINTAIN ELECTRICAL CONTINUITY AROUND CLOSED WORK AREA ARE SHOWN ON THE DEMOLITION PLANS. THE CONTRACTOR MAY NEED ADDITIONAL "JUMPERS".
- 11. ALL WORK SHOWN ON THE EXISTING CONDITIONS AND DEMOLITION DRAWINGS IS BASED ON FIELD OBSERVATION OF THE ACTUAL EXISTING CONDITIONS AND ON EXISTING "AS-BUILT" DRAWINGS OF THE AREAS AFFECTED. THEY ARE THEREFORE CONSIDERED TO BE SCHEMATIC. IT IS THE INTENT OF THE DEMOLITION DRAWINGS THAT ALL EQUIPMENT, DEVICES, FIXTURES, WIRING MATERIALS, SYSTEMS AND APPURTENANCES, ETC., WHICH ARE NO LONGER REQUIRED AS A RESULT OF THE PROJECT BE REMOVED.
- 12. ALL REMOVED FIXTURES, BASE PLATES, SPACERS, SIGNS, TRANSFORMERS, CABLES, DUCTS, BASE CANS, CONCRETE PADS, JUNCTION CANS. HANDHOLES, MANHOLES, ETC., SHALL BE PROPERLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON PLANS. THE AIRPORT HAS THE FIRST RIGHT OF REFUSAL OF ALL MATERIALS REMOVED AS A PART OF THIS PROJECT. ITEMS SHALL BE PROVIDED TO THE AIRPORT OR PROPERLY DISPOSED OF AT THEIR DIRECTION. ANY ITEMS DAMAGED DURING REMOVAL WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- 13. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO DETERMINE THAT ALL AIRFIELD LIGHTING CIRCUITS, EXCEPT THOSE THAT ARE SERVING CLOSED TAXIWAYS OR RUNWAYS, ARE COMPLETELY OPERATIONAL, AT THE END OF EACH WORK SHIFT AND SHALL SO CERTIFY TO THE RESIDENT ENGINEER/INSPECTOR AND OWNER BEFORE THE END OF EACH SHIFT. THE CONTRACTOR SHALL NOT LEAVE THE WORK SITE UNTIL CIRCUIT OPERATION HAS BEEN CONFIRMED BY THE RESIDENT ENGINEER/INSPECTOR AND OWNER.
- 14. THE CONTRACTOR SHALL COMPLETELY SURVEY AND STAKE OUT EACH AREAS' LIGHTING LAYOUT PRIOR TO STARTING ANY INSTALLATION. SHOULD ANY IRREGULARITIES OCCUR IN THE LIGHTING LAYOUT, THE OWNER SHALL BE NOTIFIED IMMEDIATELY. THE BID ITEM PRICE SHALL INCLUDE THE NECESSARY LAYOUT FOR EACH FIXTURE, AND THE COST FOR ANY ADDITIONAL ADJUSTMENT OF THE LOCATION OF THE FIXTURES, DUE TO THE EXISTING GEOMETRIC CONDITIONS. THE NEW LIGHTING INSTALLATION SHALL BE COORDINATED WITH AND BLEND INTO THE EXISTING INSTALLATION.
- 15. IF A LIGHT CAN IS INSTALLED INCORRECTLY, THE DUCT/CONDUIT IS PLUGGED/BROKEN THE CONCRETE SLABS OR ASPHALT PAVEMENT AROUND THE LIGHT CAN, AND THE LIGHT, SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.

- 16. LOCATE AND UTILIZE EXISTING DUCTS WHERE POSSIBLE. MAN EXISTING DUCTS TO DETERMINE ACCEPTABILITY FOR USE. THE COS MANDRELLING THE EXISTING DUCTS SHALL BE INCIDENTAL TO THE DUCT INSTALLATION PAY ITEM. IF EXISTING DUCTS SHOWN ARE DAM. NON-EXISTENT, OR ROUTED DIFFERENTLY, WITH THE PERMISSION O OWNER, OPEN CUT PAVEMENT AND INSTALL NEW DUCT AS DETAILED PLANS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF ALL REQUIRING STORAGE PRIOR TO REINSTALLATION. ALL SIGNS UNITS FIXTURES, ETC. SHALL BE REINSTALLED OR RETURNED TO THE O UNDAMAGED, IN PROPER WORKING CONDITION, CLEANED AND RE-LA ITEMS WHICH ARE DAMAGED PRIOR TO CONTRACTOR POSSESSION BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRA PRIOR TO DEMOLITION AND SHALL BE PHOTO DOCUMENTED. ANY DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES OR STORAGE BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 18. THE DIMENSION BETWEEN LIGHTS SHOWN ON A RADIUS IS DEFINED A CHORD LENGTH. LOCATIONS SHOWN ARE TO THE CENTER OF THE LIGH FIXTURE. THE DIMENSION SHOWN ARE ESTIMATED. THE CONTRA SHALL SURVEY THE ACTUAL DIMENSIONS AND MODIFY THE LIGHT SPA AS NEEDED. THE COST SHALL BE INCIDENTAL TO THE LIGHT INSTALLAT
- 19. ALL MANHOLES OR HANDHOLES SHALL BE INSTALLED AS SHOWN ON P MANHOLES OR HANDHOLES SHALL NOT BE INSTALLED IN DIT DRAINAGE SWALES OR WHERE WATER WILL POND ON TOP OF MANHOLE/HANDHOLE.
- DEWATERING FOR THE INSTALLATION OF MANHOLES, HANDHOLES, 20. CANS, DUCT BANKS OR CONDUITS ARE INCIDENTAL TO THE RESPE PAY ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEWATERING.
- 21. THE ELECTRICAL CONTRACTOR SHALL ATTEND THE CONSTRU MEETINGS, HELD WEEKLY, FOR THE DURATION OF THE PROJECT.
- 22. ALL ELECTRICAL DEMOLITION SHALL INCLUDE FOUNDATION REMOVA BACKFILL PER P-152. SEE SPECIFICATION T-901 AND T-904 FOR SEEDING SODDING REQUIREMENTS. NO SEPARATE PAYMENT SHALL BE MADE RESTORATION.
- 23. GROUNDING SHALL BE IN ACCORDANCE WITH SPECIFICATION L-108 AN AC 150/5340-30 (LATEST EDITION). THE RESISTANCE FROM THE GROUND TO EARTH MUST BE 25 OHMS OR LESS PRIOR TO CONNECTION TO GROUND SYSTEM. IF THE 25 OHM REQUIREMENT IS NOT MET, ADDIT GROUND ROD SECTIONS SHALL BE INSTALLED. ALL TESTING SHA WITNESSED BY THE RESIDENT ENGINEER/INSPECTOR OR OWNER CONTRACTOR SHALL SUBMIT ALL GROUND RESISTANCE TESTING RESISTANCE RESISTANCE RESISTANCE TESTING RESISTANCE RESISTANCE RESISTANCE RESISTANCE TESTING RESISTANCE RE TO OWNER AT THE END OF THE PROJECT. IF MORE THAN 2 GROUND BARS ARE NEEDED TO MEET THE 25 OHM REQUIREMENT, THE ENGINEER/OWNER SHALL BE NOTIFIED PRIOR TO INSTALLATION.
- 24. ALL EQUIPMENT PROVIDED IN THIS PROJECT SHALL BE LISTED IN FAA AC 150-5345-53 APPENDIX (LATEST EDITION).
- 25. ALL EXISTING CONDUCTORS SHALL BE TESTED FOR INSULATION RESISTANCE PRIOR TO WORKING ON CIRCUIT USING A 1000V MEGGER AND SHALL BE RETURNED TO SERVICE WITH MATCHING OR BETTER INSULATED RESISTANCE READINGS. ALL PROPOSED CONDUCTORS SHALL BE TESTED FOR INSULATION RESISTANCE PRIOR TO CONNECTING TO EXISTING CIRCUIT. USING A 1000V MEGGER. NEW PORTIONS OF CIRCUITS SHALL BE COMPLETE FOR TESTING. ALL TESTING SHALL BE WITNESSED BY THE RESIDENT ENGINEER/INSPECTOR OR OWNER. ALSO, CONTRACTOR SHALL SUBMIT ALL INSULATION RESISTANCE TESTING RESULTS TO OWNER AT THE END OF THE PROJECT.
- 26. THE ALBERT J. ELLIS AIRPORT MAINTENANCE DEPARTMENTS "LOCKOUT/TAGOUT" PROCEDURE SHALL BE COMPLIED WITH BY THE CONTRACTOR. CONTACT AIRPORT MAINTENANCE TO "LOCKOUT/TAGOUT" REGULATORS AND FOR A COPY OF ALBERT J. ELLIS AIRPORT MAINTENANCE DEPARTMENTS "LOCKOUT/TAGOUT" PROCEDURE. THE CONTRACTOR SHALL COMPLY WITH ALL SAFETY PROCEDURES OUTLINED IN AC 150/5340-26B (LATEST EDITION).
- 27. BY OPENING THESE SHEETS IN AUTOCAD, THE USER AGREES THAT DATA PROVIDED BY ELECTRONIC FILES ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE USED AT ONE'S OWN RISK. THE ENGINEER MAKES NO REPRESENTATIONS, WRITTEN OR VERBAL, THAT THE INFORMATION CONTAINED IN THESE DIGITAL FILES IS COMPLETE OR ACCURATE OR SHOULD BE RELIED UPON FOR CONSTRUCTION. ANY CONFLICT BETWEEN THE INFORMATION REFLECTED ON THE SEALED PLAN SHEETS AND ELECTRONIC DATA SHALL BE RESOLVED IN FAVOR OF THE SEALED PLAN SET.
- 28. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK WITH THE APPROPRIATE UTILITIES AS NECESSARY. THE CONTRACTOR MAY BE REQUIRED TO WORK CONCURRENTLY WITH OR "WORK AROUND" EXISTING UTILITIES. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANIES.
- 29. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY A MINIMUM OF 7 DAYS PRIOR TO BEGINNING ANY EXCAVATION WORK TO HAVE UNDERGROUND UTILITIES MARKED ON THE GROUND.
- 30. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SHUTDOWNS WITH THE FAA AND AIRPORT.

# ABBREVIATIONS:

NDREL	AWG	-	AMERICAN WIRE GAUGE
ST OF	ALCMS	-	AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM
E NEW	BP1	-	BID PACKAGE 1
IAGED.	BSDC	-	BARE SOFT DRAWN COPPER
DF THE	CC	-	CENTER TO CENTER
IN THE	CE	-	CONCRETE ENCASED
	СКТ	-	CIRCUIT
	CL	-	CENTERLINE
ITEMS	CLT/CDIA	-	
LIGHT	COMM	-	
WNER	CU	-	COPPER
MPFD		_	
SHALL	DEB	_	DIRECT FARTH BURIED
		_	DIAMETER
ITEMS	ELD		
	EOP	-	EDGE OF PAVEMENT
STIALE	EO	-	
		-	
	FOC	-	FIDER OF TIC CADLE EIRED ODTIC TRANSMISSION SVSTEM
	FOIS	-	
	GOE	-	
	HDPE	-	
	IFR	-	
HON.	ILC	-	
	IPRF	-	INNOVATIVE PAVEMENT RESEARCH FOUNDATION
PLANS.	IP	-	
CHES,	JCP	-	JUNCTION CAN PLAZA
F THE	KV	-	KILOVOLT
	MAX	-	MAXIMUM
	MIN	-	MINIMUM
BASE	MITL	-	MEDIUM INTENSITY TAXIWAY EDGE LIGHT
ECTIVE	NEAT	-	NORTH END AROUND TAXIWAY
R AND	PC	-	POINT OF CURVATURE
	PI	-	POINT OF INFLECTION
	PS	-	PAVEMENT SENSOR
ICTION	PT	-	POINT OF TANGENCY
	PVC	-	POLYVINYL CHLORIDE
	REL	-	RUNWAY ENTRANCE LIGHT
L AND	RGS	-	RIGID GALVANIZED STEEL
G AND	RWY	-	RUNWAY
E FOR	RWSL	-	RUNWAY STATUS LIGHTS
	SCH	-	SCHEDULE
	SCHED	-	SCHEDULE
ID FAA	SP	-	SPACES
D ROD	THL	-	TAKEOFF HOLD LIGHT
O THE	TWY	-	TAXIWAY
IONAL	TYP	-	TYPICAL
IL BE	UGF	-	UNDERGROUND ELECTRICAL
		-	LINE ESS NOTED OTHERWISE
SULTS		_	
BARS	****	_	

![](_page_35_Figure_45.jpeg)

![](_page_36_Figure_0.jpeg)

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![](_page_38_Figure_0.jpeg)

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![](_page_40_Figure_0.jpeg)

EXISTING ELE	ECTRICAL LEGEND:
Ø	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT
0	EXISTING AIRFIELD GUIDANCE SIGN
P	EXISTING PULL CAN
<del>СКТ</del>	EXISTING CONDUIT. CKT = EXISTING CIRCUIT DESIGNATOR. NUMBER OF TICS INDICATES NUMBER OF EXIST CABLES INSIDE CONDUIT
	DEMOLISH. COMPLETELY REMOVE UNLESS OTHERWISE NOTED. ITEMS TO BE REMOVED INCLUDE, BUT AR LIMITED TO: CONCRETE, REBAR, CONDUIT, CABLE, COUNTERPOISE, JUNCTION STRUCTURES (ANY DEPTH) AGGREGATE, GROUND RODS, BASE CANS, AS SHOWN ON PLANS.
	CONDUIT CAP. CAP EXISTING CONDUITS AT DEMOLITION LIMITS WITH APPROPRIATELY SIZED FRICTION FIT CAPS TO PREVENT DIRT AND DEBRIS FROM ENTERING THE CONDUIT. REMOVE CABLE BACK TO ADJACENT STRUCTURES/LIGHT BASES.
PROPOSED E	LECTRICAL LEGEND:
ullet	L-861T(L), LED, OMNI-DIRECTIONAL, TAXIWAY EDGE LIGHT. INSTALL 14" STEM ON L-867B BASE CAN, CLASS BASE PLATE, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. EDGE LIGHT INSTALLED IN
•••••••••••••••••••••••••••••••••••••••	L-858B(L) AIRFIELD SIGN, LED, INSTALLED ON A CONCRETE FOUNDATION WITH L-867B CLASS 1A, 24" DEEP I CAN, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS
•	JUNCTION CAN PLAZA IN CONCRETE BASE WITH TWO CLASS 1A L-867D BASE CANS IN PLAZA.
	PROPOSED AIRFIELD ELECTRICAL DUCT BANK. SCHEDULE 40 PVC CONDUIT, CONCRETE ENCASED. X= NUM • CONDUITS IN DUCT, Y= DIAMETER OF CONDUIT IN INCHES. CKT# = CIRCUIT DESIGNATOR(S) INSIDE DUCT. N OF TICS INDICATE NUMBER OF NEW L-824, TYPE C, 5KV CABLES INSIDE DUCT.
	2" SCH. 40 PVC CONDUIT, DIRECT EARTH BURIED. NUMBER OF TICK MARKS INDICATE THE NUMBER OF NEW TYPE C, 5 KV, #8 AWG, CABLES INSTALLED IN CONDUIT. CKT = CIRCUIT DESIGNATOR.
	INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT WITH APPROPRIATELY SIZED PVC COUPL INSTALL NEW CABLE(S) BACK TO ADJACENT JUNCTION STRUCTURES/LIGHT BASES AS SHOWN ON CIRCUIT

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EXISTING ELE	CTRICAL LEGEND:
Ø	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT
▶ ■ ■ ■	EXISTING AIRFIELD GUIDANCE SIGN
P	EXISTING PULL CAN
<i>#</i>	EXISTING CONDUIT. CKT = EXISTING CIRCUIT DESIGNATOR. NUMBER OF TICS INDICATES NUMBER OF EXISTING CABLES INSIDE CONDUIT
	DEMOLISH. COMPLETELY REMOVE UNLESS OTHERWISE NOTED. ITEMS TO BE REMOVED INCLUDE, BUT ARE N LIMITED TO: CONCRETE, REBAR, CONDUIT, CABLE, COUNTERPOISE, JUNCTION STRUCTURES (ANY DEPTH), AGGREGATE, GROUND RODS, BASE CANS, AS SHOWN ON PLANS.
-	CONDUIT CAP. CAP EXISTING CONDUITS AT DEMOLITION LIMITS WITH APPROPRIATELY SIZED FRICTION FIT PV CAPS TO PREVENT DIRT AND DEBRIS FROM ENTERING THE CONDUIT. REMOVE CABLE BACK TO ADJACENT JU STRUCTURES/LIGHT BASES.
PROPOSED EI	LECTRICAL LEGEND:
۲	L-861T(L), LED, OMNI-DIRECTIONAL, TAXIWAY EDGE LIGHT. INSTALL 14" STEM ON L-867B BASE CAN, CLASS 1A, BASE PLATE, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. EDGE LIGHT INSTALLED IN TU
••••	L-858B(L) AIRFIELD SIGN, LED, INSTALLED ON A CONCRETE FOUNDATION WITH L-867B CLASS 1A, 24" DEEP BAS CAN, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS
•	JUNCTION CAN PLAZA IN CONCRETE BASE WITH TWO CLASS 1A L-867D BASE CANS IN PLAZA.
	PROPOSED AIRFIELD ELECTRICAL DUCT BANK. SCHEDULE 40 PVC CONDUIT, CONCRETE ENCASED. X= NUMBE CONDUITS IN DUCT, Y= DIAMETER OF CONDUIT IN INCHES. CKT# = CIRCUIT DESIGNATOR(S) INSIDE DUCT. NUN OF TICS INDICATE NUMBER OF NEW L-824, TYPE C, 5KV CABLES INSIDE DUCT.
	2" SCH. 40 PVC CONDUIT, DIRECT EARTH BURIED. NUMBER OF TICK MARKS INDICATE THE NUMBER OF NEW L- TYPE C, 5 KV, #8 AWG, CABLES INSTALLED IN CONDUIT. CKT = CIRCUIT DESIGNATOR.
	INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT WITH APPROPRIATELY SIZED PVC COUPLING INSTALL NEW CABLE(S) BACK TO ADJACENT JUNCTION STRUCTURES/LIGHT BASES AS SHOWN ON CIRCUITING PLANS.
L	

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EXISTING ELE	CTRICAL LEGEND:
Ø	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT
e	EXISTING AIRFIELD GUIDANCE SIGN
P	EXISTING PULL CAN
— — <i>#_</i> —	EXISTING CONDUIT. CKT = EXISTING CIRCUIT DESIGNATOR. NUMBER OF TICS INDICATES NUMBER OF EXIS CABLES INSIDE CONDUIT
	DEMOLISH. COMPLETELY REMOVE UNLESS OTHERWISE NOTED. ITEMS TO BE REMOVED INCLUDE, BUT A LIMITED TO: CONCRETE, REBAR, CONDUIT, CABLE, COUNTERPOISE, JUNCTION STRUCTURES (ANY DEPTH AGGREGATE, GROUND RODS, BASE CANS, AS SHOWN ON PLANS.
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PROPOSED EI	LECTRICAL LEGEND:
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••••	L-858B(L) AIRFIELD SIGN, LED, INSTALLED ON A CONCRETE FOUNDATION WITH L-867B CLASS 1A, 24" DEEF CAN, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS
•	JUNCTION CAN PLAZA IN CONCRETE BASE WITH TWO CLASS 1A L-867D BASE CANS IN PLAZA.
CKT1 CKT2 X-Y"	PROPOSED AIRFIELD ELECTRICAL DUCT BANK. SCHEDULE 40 PVC CONDUIT, CONCRETE ENCASED. X= NU CONDUITS IN DUCT, Y= DIAMETER OF CONDUIT IN INCHES. CKT# = CIRCUIT DESIGNATOR(S) INSIDE DUCT. OF TICS INDICATE NUMBER OF NEW L-824, TYPE C, 5KV CABLES INSIDE DUCT.
СКТ —/	2" SCH. 40 PVC CONDUIT, DIRECT EARTH BURIED. NUMBER OF TICK MARKS INDICATE THE NUMBER OF NE TYPE C, 5 KV, #8 AWG, CABLES INSTALLED IN CONDUIT. CKT = CIRCUIT DESIGNATOR.
— E —	INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT WITH APPROPRIATELY SIZED PVC COUP INSTALL NEW CABLE(S) BACK TO ADJACENT JUNCTION STRUCTURES/LIGHT BASES AS SHOWN ON CIRCU PLANS.

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![](_page_44_Figure_1.jpeg)

Ø	EXISTING BASE MOUNTED TAXIWAY EDGE LIGHT
<b>0</b>	EXISTING AIRFIELD GUIDANCE SIGN
P	EXISTING PULL CAN
	EXISTING CONDUIT. CKT = EXISTING CIRCUIT DESIGNATOR. NUMBER OF CABLES INSIDE CONDUIT
	DEMOLISH. COMPLETELY REMOVE UNLESS OTHERWISE NOTED. ITEMS LIMITED TO: CONCRETE, REBAR, CONDUIT, CABLE, COUNTERPOISE, JU AGGREGATE, GROUND RODS, BASE CANS, AS SHOWN ON PLANS.
	CONDUIT CAP. CAP EXISTING CONDUITS AT DEMOLITION LIMITS WITH A CAPS TO PREVENT DIRT AND DEBRIS FROM ENTERING THE CONDUIT. F STRUCTURES/LIGHT BASES.
PROPOSED EL	LECTRICAL LEGEND:
۲	L-861T(L), LED, OMNI-DIRECTIONAL, TAXIWAY EDGE LIGHT. INSTALL 14" BASE PLATE, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNE
•••	L-858B(L) AIRFIELD SIGN, LED, INSTALLED ON A CONCRETE FOUNDATIO CAN, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS

۲	BASE PLATE, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. EDGE LIGHT INSTALLED
•••••	L-858B(L) AIRFIELD SIGN, LED, INSTALLED ON A CONCRETE FOUNDATION WITH L-867B CLASS 1A, 24" DE CAN, PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS
••	JUNCTION CAN PLAZA IN CONCRETE BASE WITH TWO CLASS 1A L-867D BASE CANS IN PLAZA.
CKT1 CKT2 X-Y" #	PROPOSED AIRFIELD ELECTRICAL DUCT BANK. SCHEDULE 40 PVC CONDUIT, CONCRETE ENCASED. X= 1 CONDUITS IN DUCT, Y= DIAMETER OF CONDUIT IN INCHES. CKT# = CIRCUIT DESIGNATOR(S) INSIDE DUC OF TICS INDICATE NUMBER OF NEW L-824, TYPE C, 5KV CABLES INSIDE DUCT.
	2" SCH. 40 PVC CONDUIT, DIRECT EARTH BURIED. NUMBER OF TICK MARKS INDICATE THE NUMBER OF I TYPE C, 5 KV, #8 AWG, CABLES INSTALLED IN CONDUIT. CKT = CIRCUIT DESIGNATOR.
— E —	INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT WITH APPROPRIATELY SIZED PVC COUNSTALL NEW CABLE(S) BACK TO ADJACENT JUNCTION STRUCTURES/LIGHT BASES AS SHOWN ON CIRC PLANS.

![](_page_45_Figure_0.jpeg)

![](_page_45_Figure_1.jpeg)

# ELEVATED FIXTURE NOTES:

- 1. THE OVERALL HEIGHT OF THE ELEVATED EDGE LIGHTS SHALL BE 14".
- REVIEW AND APPROVAL PRIOR TO THE START OF WORK.
- CONTRACTOR'S EXPENSE.

- EQUAL).
- MECHANICAL MEANS AND SHALL BE FREE OF ANY VOIDS.
- AS TO PREVENT WATER FROM ENTERING THE HOLE.
- CONNECTORS OR LOOP.
- LOCATIONS.
- THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING FOR APPROVAL.
- L-867D BASE CAN.
- WEEP HOLE
- RUNWAY EDGE LIGHT BASE MOUNTED INSTALLED IN TURF" LINE ITEM.

![](_page_45_Figure_21.jpeg)

![](_page_45_Figure_22.jpeg)

DOCI

BID

![](_page_46_Figure_0.jpeg)

# CONNECTIONS BETWEEN COUNTERPOISE AND GROUND ROD SHALL BE EXOTHERMIC.

2. THE DETAILS SHOWN IN THE PLANS PROVIDE THE MINIMUM REQUIREMENTS FOR SIGN INSTALLATIONS. THE CONTRACTOR SHALL USE STANDARDS APPLICABLE FOR THE PARTICULAR SIGN MANUFACTURER. THE BOLTING PATTERN, METHOD OF ANCHORING, ETC., SHALL BE PER SIGN MANUFACTURER'S RECOMMENDATIONS AND

3. THE SIGN SHALL WITHSTAND 200 MPH WIND LOAD PER AC 150/5345-44 (LATEST EDITION) WITHOUT DAMAGE. THE SIGN SHALL NOT BREAK AT THE FRANGIBLE POINTS NOR SUFFER PERMANENT DISTORTION. THE SIGN MANUFACTURER SHALL SUBMIT TO THE ENGINEER MOUNTING METHODS AND THE CALCULATIONS OR TEST RESULTS SUPPORTING THE ABOVE REQUIREMENT. THE SIGNS SHALL BE FRANGIBLE, MEETING THE

4. ALL SIGNS SHALL BE FURNISHED WITH TETHERS. TETHERS SHALL BE 3/16" STAINLESS STEEL AIRCRAFT CABLE WITH A FORMED EYE ON BOTH ENDS. THE TETHER EYE SHALL BE ATTACHED TO THE SIGN AND BASE BY BEING SANDWICHED BETWEEN TWO STAINLESS STEEL FENDER WASHERS, WITH A 1/2" MINIMUM STAINLESS STEEL BOLT. THE TETHER SHALL BE OF SUFFICIENT LENGTH TO HAVE A MINIMUM OF 6" OF SLACK WHEN ATTACHED BETWEEN THE SIGN AND THE SIGN BASE. THE TETHERS AND BONDING CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO ALLOW THE FRANGIBLE COUPLINGS TO OPERATE WITHOUT RESTRICTIONS AND TO ALLOW THE POWER CABLE TO DISCONNECT IF THE SIGN FALLS OVER. ALL TETHERS SHALL BE THE SAME LENGTH. PROVIDE 1 TETHER PER SIGN LEG. THE BONDING CONDUCTOR AND SIGN TETHER SHALL NOT BE ATTACHED AT THE SAME ANCHOR BOLT. AN APPROVED MECHANICAL OR COMPRESSION LUG SHALL BE USED TO CONNECT THE BONDING

5. FOR LOCATION AND ORIENTATION OF SIGNS AND FOUNDATIONS, SEE LAYOUT PLANS. THE LOCATION SHOWN ON THE PLANS IS THE PERPENDICULAR DISTANCE FROM THE DEFINED TAXIWAY EDGE OF FULL STRENGTH PAVEMENT, TO THE NEAR SIDE OF THE SIGN ON THE SIGN'S LONGITUDINAL CENTERLINE (SEE PLAN VIEW).

6. ALL SIGNS SHALL BE ORIENTED SUCH THAT THE LONGITUDINAL CENTERLINE OF THE SIGN IS PERPENDICULAR

7. ALL MANDATORY SIGNS SHALL BE LOCATED OFF THE EDGE OF FULL STRENGTH PAVEMENT AND ALIGNED WITH THE FRONT EDGE OF THE FRONT STRIPE OF THE HOLD POSITION MARKING. ALL TAXIWAY GUIDANCE SIGNS SHALL BE LOCATED OFF THE EDGE OF THE FULL STRENGTH PAVEMENT AS SHOWN ON THE PLANS.

8. THE ACTUAL SIGN DIMENSIONS WILL VARY. THE BASE SIZE AS SHOWN SHALL BE ADJUSTED TO MATCH THE

10. CONCRETE STEEL REINFORCEMENT SHALL BE TYPE ASTM A615 GRADE 60. ALL REINFORCEMENT SHALL HAVE A 3" MINIMUM CONCRETE COVER. REINFORCEMENTS MAY BE ADJUSTED TO MISS INTERFERENCES.

11. INSTALL SIGN UNIT LEVEL. USE STRUCTURAL BACKFILL AS REQUIRED. STRUCTURAL BACKFILL, FREE-DRAINING, AS APPROVED BY THE ENGINEER, SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 4".

12. ALL AREAS FOR THE LEG FLANGE PLATES SHALL BE IN THE SAME PLANE. THE ANCHOR BOLTS SHALL BE A-36 STEEL, HOT DIP GALVANIZED WHEN CAST INTEGRALLY WITH THE CONCRETE PAD OR STAINLESS STEEL

13. RESTORATION OF GRADE IN DISTURBED AREAS SHALL BE INCIDENTAL TO THE SIGN INSTALLATION.

14. GROUND RODS SHALL BE 3/4 INCH DIAMETER, 10 FEET LONG, COPPER CLAD STEEL SECTIONAL RODS. EACH GROUND ROD SHALL BE INDIVIDUALLY TESTED PRIOR TO CONNECTION TO THE GROUND GRID OR COUNTERPOISE. EACH INDIVIDUAL ROD SHALL HAVE AN EARTH RESISTANCE OF 25 OHMS OR LESS. IN THE EVENT 25 OHM VALUE IS NOT MET, AN ADDITIONAL GROUND ROD SHALL BE INSTALLED.

16. ISOLATION TRANSFORMER BRICK STAND SHALL BE INSTALLED SUCH THAT IT DOES NOT BLOCK 3/4" DRAINAGE

17. SODDING OF DISTURBED AREAS SHALL BE INCLUDED IN THE INDIVIDUAL SIGN PAY ITEM AND SHALL BE A 24"

![](_page_46_Figure_18.jpeg)

		EGEND		LEGEND - SIDE B						
SIGN NO.	1	2	3	1	2	3	, 	SIZE	STYLE	MO
	-	2	5	 -	2	5				
S-1	Α	B2	<b>→</b>	Α				2	2	2
	L	Y	Y	L	В	В				
S-2			Α	+	B2	Α		2	2	2
	В	В	L	Y	Y	L				
S-3	B2	+	A →	B2				2	2	2
	L	Y	Y	L	В	В				
S-4			B2	B2	+	A →		2	2	2
	В	В	L	L	Y	Y				

1 SIGN SCHEDULE E-403 SCALE: NTS

![](_page_47_Figure_4.jpeg)

![](_page_47_Figure_5.jpeg)

![](_page_48_Figure_0.jpeg)

![](_page_48_Figure_15.jpeg)

![](_page_49_Figure_0.jpeg)

INSIDE OF BASE CA
 BRAIDED COPPER GROUND STRAP (DETAIL 4, THIS SHEET)
INTERNAL GROUND LUG
EXTERNAL GROUND LUG —
<u>\</u>
3/4" x 10' 0 EXOTHE
6 GROUND CONNECTION

![](_page_49_Figure_12.jpeg)

![](_page_50_Figure_0.jpeg)

![](_page_50_Figure_1.jpeg)

1

2

3

	ITEM DESCRIPTION
	EXISTING 10 KW, FERRO-REASONANT TYPE WITH WITH COMPUTER INTERFACE MODULE, INTERNAL
	EXISTING 30 KW CCR, SPARE
	7.5 KW CCR, SPARE
	EXISTING 7.5 KW, FERRO-REASONANT TYPE WITH WITH COMPUTER INTERFACE MODULE, INTERNAL
	EXISTING 7.5 KW, FERRO-REASONANT TYPE WITH WITH COMPUTER INTERFACE MODULE, INTERNAL
	EXISTING PULL BOX
	EXISTING ALCS COMPUTER
	EXISTING L-854 RADIO CONTROL UNIT
	NOT USED.
	EXISTING "AFL-2" PANEL, SQUARE D I-LINE
	EXISTING DRY TYPE TRANSFORMER
	EXISTING "AFL-1" PANEL SQUARE D NQOD
	EXISTING "MDP" PANEL SQUARE D I-LINE WITH TWO (2) - 225A, 3 POLE SPACES
	EXISTING ISOLATION BY-PASS SWITCH
-	EXISTING AUTOMATIC TRANSFORMER SWITCH (ATS)
_	EXISTING MAIN SERVICE DISCONNECT SWITCH
	EXISTING 100KVA GENERATOR
	EXISTING AIR LOUVER
	EXISTING COMPUTER INTERFACE MODULE (I.E. ACE UNIT FOR ADB, INC.)
	EXISTING OVERHEAD SERVICE WEATHER HEAD.
	EXISTING 4KW CONSTANT CURRENT REGULATOR, FERRO-RESONANT, MANDATORY SIGN CIRCUIT (SGN CKT),WITH

ALCS NOTES:

- 1. THE EXISTING AIRFIELD LIGHTING CONTROL SYSTEM (ALCS) IS MANUFACTURED BY ADB SAFEGATE, INC. ALL MODIFICATIONS TO THE ALCS SHALL BE COMPLETED BY ADB SAFEGATE, INC. PERSONNEL WITH SPECIALIZED TRAINING IN ALCS SYSTEMS. THE WORK SHALL BE SOLE SOURCE TO ADB SAFEGATE, INC.
- 2. THE CONTRACTOR MAY CONTACT MR. GALEN DIXON OF ADB SAFEGATE, INC. TO OBTAIN A QUOTE FOR THE WORK. THIS WORK SHALL BE SOLE SOURCED TO ADB SAFEGATE.
- 3. THE CONTRACTOR SHALL PROVIDE ALL SUPPORT NEEDED TO ADB SAFEGATE, INC. PERSONNEL TO COMPLETE THE MODIFICATION TO INCLUDE, BUT NOT BE LIMITED TO ESCORT ACCESS TO OAJ/AOA, HARDWARE MODIFICATIONS IF DIRECTED BY ADB SAFEGATE, INC., AND ALL OTHER INCIDENTALS REQUIRED IN THE FIELD.
- 4. THE CONTRACTOR SHALL UPDATE THE TOUCH SCREEN GRAPHICS PANEL IN THE ATCT CAB, AIRFIELD LIGHTING VAULT, AND FIRE STATION TO REFLECT THE ADDITION OF THE TAXIWAY 'A' HOLDING AREA. THIS WORK SHALL BE COMPLETED BY ADB SAFEGATE, INC.

![](_page_50_Figure_11.jpeg)

![](_page_51_Figure_0.jpeg)