GENERAL NOTES

1. EACH CONTRACTOR SHALL OBTAIN, HAVE KNOWLEDGE OF, AND INCORPORATE THE FOLLOWING SAFETY PROVISIONS INTO THE CONSTRUCTION PROJECT:

   ~ OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION - AC 150/5370-2E.
   ~ AIRPORT SAFETY SELF-INSPECTION - AC 150/5200-18C.
   ~ STANDARDS FOR AIRPORT MARKINGS - AC 150/5340-1K.
   ~ PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AIRPORTS - AC 150/5210-5C.

2. FOR OTHER CONDITIONS RELATING TO SAFETY, SEE SPECIFICATIONS.

3. NOTICE TO AIRMEN (NOTAMS) - THE CONTRACTOR WILL PROVIDE THE NECESSARY INFORMATION ON CONSTRUCTION CONDITIONS TO THE OWNER MINIMUM OF SEVEN (7) DAYS PRIOR SO THAT NOTAMS CAN BE ISSUED IN ACCORDANCE WITH ESTABLISHED CRITERIA BY THE OWNER TO THE F.A.A. FLIGHT SERVICE STATION.

4. ALL NON-PAVED AREAS OUTSIDE LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA THAT ARE DISTURBED BY THE CONTRACTOR'S WORK, HAUL ROADS, ETC. SHALL BE RESEEDED AND RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. THERE WILL BE NO SEPARATE PAY ITEM FOR THIS WORK.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE STORAGE AND SECURITY OF HIS MATERIAL AND EQUIPMENT AND SHALL ERECT STORAGE FACILITIES AND FENCING AS NECESSARY. THE CONTRACTOR'S STORAGE AND STAGING AREA SHALL BE IN THE LOCATION SHOWN ON DRAWING PL-1. THE STAGING AREA SHALL BE RETURNED TO ORIGINAL CONDITION AT THE CONCLUSION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

6. CONTRACTOR WILL NOT BE ALLOWED TO USE ANY OF THE EXISTING RUNWAYS OR TAXIWAYS AS PART OF THE HAUL ROAD UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER.

7. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE PROJECT AREA THROUGH THE PROJECT ACCESS ROUTES AS SHOWN ON DRAWING PL-1.

8. CONSTRUCTION STAKE-OUT SHALL BE PERFORMED BY CONTRACTOR IN ACCORDANCE WITH ARTICLE 50-06 OF THE SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASUREMENTS THAT MAY BE REQUIRED TO LAY OUT THE CONSTRUCTION. THE COST OF STAKING WILL NOT BE PAID FOR DIRECTLY AND WILL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS ITEMS OF WORK.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND IDENTIFICATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES IN CONSTRUCTION AREA. ANY DAMAGES TO EXISTING UTILITIES OR UNDERGROUND PIPELINES ON OR OFF AIRPORT PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIR WORK SHALL MEET THE APPROVAL OF THE OWNER OF THE DAMAGED UTILITY. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY/PIPE REPAIR OR REPLACEMENT.

10. CONTRACTOR SHALL MAINTAIN RADIO COMMUNICATION WITH THE UNICOM GROUND AT ALL TIMES DURING CONSTRUCTION 122.8 MHZ). CONTRACTOR WILL HAVE A WORKING RADIOON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL ASSIGN RESPONSIBLE PERSONNEL TO CONTINUOUSLY MONITOR THE APPROPRIATE FREQUENCY. THE CONTRACTOR WILL ALSO PROVIDE THE RESIDENT INSPECTOR WITH APPROVED RADIOS FOR USE DURING THE DURATION OF CONSTRUCTION. THE RADIOS WILL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN THE PROJECT IS COMPLETE.

11. ALL VEHICLES USED ON THE AIRFIELD SHALL MEET FAA REQUIREMENTS FOR MARKINGS AND LIGHTING. (SEE AC 150/5210-5C).

12. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANUP AND DISPOSAL OF ALL TRASH AND DEBRIS CREATED BY HIS WORK OR PERSONNEL. ALL TRASH AND DEBRIS MUST BE DISPOSED OF OFFSITE.

13. CONTRACTOR WILL PROTECT ALL EXISTING RUNWAY AND TAXIWAY LIGHTS IN THE VICINITY OF THE WORK AREAS THAT ARE DESIGNATED TO REMAIN AND ANY DAMAGE WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

14. CONTRACTOR WILL PROVIDE SUFFICIENT BARRICADES ON SITE TO BLOCK OFF AREAS IN WHICH CURRENT WORK IS TAKING PLACE. COORDINATION WITH THE AIRPORT OPERATIONS DEPARTMENT WILL BE NECESSARY IN ORDER TO PLAN DAILY CONSTRUCTION AND GROUND ACTIVITY AND WILL BE REQUIRED PRIOR TO COMMENCING WORK IN EACH SUCCESSIVE PHASE.

15. IN THE EVENT THE CONTRACTOR SERVICES HIS EQUIPMENT ON AIRPORT PROPERTY, ALL OIL AND FLUIDS REMOVED FROM THE EQUIPMENT MUST BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL ENVIRONMENTAL LAWS. IF A HAZARDOUS, OR REGULATED MATERIAL IS SPILLED, IT MUST BE PROMPTLY REPORTED TO THE AIRPORT AND CLEANED UP BY THE CONTRACTOR AT HIS EXPENSE.

16. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.

17. PRIOR TO DIGGING ANY TRENCHES, CONTRACTOR SHALL NOTIFY ALL UTILITIES (ELECTRIC, GAS, TELEPHONE, WATER, SEWER) AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES.

18. ANY DAMAGES DONE TO AIRPORT PROPERTY OR UTILITIES (SUCH AS RUNWAY, TAXIWAYS, APRONS, FENCING, EXISTING LIGHTING AND CABLES) WILL BE REPAIRED BY THE CONTRACTOR TO THE APPROVAL OF THE OWNER OF THE FACILITY IN A SATISFACTORY MANNER. THE CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS.

19. APPROVED CUTS IN PAVEMENT OR CONCRETE SHALL BE MADE USING A PAVEMENT SAW, AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE IN A MANNER APPROVED BY THE ENGINEER.

20. EXISTING EASEMENTS TO OTHER PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

21. THE EXISTING AIRPORT PAVEMENTS, ACCESS ROADS, AND HAUL ROUTES MAY NOT BE CAPABLE OF SUPPORTING CERTAIN TYPES OF CONSTRUCTION EQUIPMENT. PRIOR TO BIDDING, THE CONTRACTOR SHALL FULLY SATISFY HIMSELF AS TO THE ABILITY OF THE EXISTING AIRPORT PAVEMENTS TO SATISFACTORILY SUSTAIN THE TYPE OF EQUIPMENT HE PLANS TO USE. CONTRACTOR SHALL SIZE THE EQUIPMENT USED FOR CONSTRUCTION ACCORDINGLY. ANY DAMAGE CAUSED BY HAULING OR ANY OTHER CONSTRUCTION ACTIVITY TO EXISTING PAVEMENT, EXCLUDING SPECIFIED REPAIR WORK, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

22. AREAS OUTSIDE THE PROJECT LIMITS ARE DESIGNATED AS RESTRICTED AREAS. THE CONTRACTOR'S FORCES ARE PROHIBITED FROM ENTERING RESTRICTED AREAS AT ANY TIME, UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER OR AIRPORT OPERATIONS DEPARTMENT.

23. THE ENGINEER SHALL DESIGNATE AREAS TO BE USED BY THE CONTRACTOR FOR THE PARKING OF CONSTRUCTION EQUIPMENT AND VEHICLES WHEN NOT ENGAGED IN THE CONSTRUCTION DURING NON-WORKING DAYS AND NIGHTS AS WELL AS AREAS FOR CONTRACTOR'S EMPLOYEES AUTO PARKING.

24. RUNWAY, TAXIWAY, AND EXISTING APRONS SHALL BE KEPT FREE OF ALL DEBRIS, DIRT, ETC., AT ALL TIMES. ANY SPILLAGE OF EXCAVATION OR OTHER MATERIAL SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR WITH A MOTOR DRIVEN SWEEPER OR VACUUM AS REQUIRED BY THE ENGINEER. A PROGRAM OF REGULAR RUNWAY, TAXIWAY AND APRON INSPECTION WILL BE PLANNED BY THE CONTRACTOR, THE AIRPORT OPERATIONS DEPARTMENT AND THE ENGINEER.

25. ALL ACTIVE AIRPORT OPERATIONAL AREAS WHICH ARE ADJACENT TO A CONSTRUCTION WORK AREA SHALL BE SEPARATED BY BARRIERS WITH FLASHING OR STEADY RED LIGHTS. NO CONSTRUCTION TRAFFIC WILL CROSS ACTIVE AIRPORT OPERATIONAL AREAS. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE BARRIERS.

26. ANY UNPLANNED, UNAPPROVED, OR ACCIDENTAL SHUTDOWN OR INTERRUPTION OF SERVICE TO ANY LIGHTING CIRCUIT OR NAVIGATIONAL AID REQUIRES IMMEDIATE NOTIFICATION TO THE AIRPORT OPERATIONS DEPARTMENT AND THE ENGINEER AND SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR. THE COST OF MATERIALS AND LABOR REQUIRED TO REPAIR THE LIGHTING CIRCUIT SHALL BE BORNE BY THE CONTRACTOR.

SUMMARY OF QUANTITIES

Item No.	Spec. No.	Item Description	Unit	Estimated Quantity	Final Quantity
1	01000A	Mobilization	L.S.	1	
2	01000B	Planning Scenario "B", Bid Adjustment	L.S.	1	
3	L108A	Counterpoise Trench in Earth	L.F.	27,500	
4	L108B	No. 8, 5kV, L-824C Cable, Installed in Cable Trench, Duct Bank or Conduit	L.F.	90,850	
5	L108C	No. 6 Bare Counterpoise Wire, Installed in Trench or with Duct Bank or Conduit, Including Ground Rods and Ground Connectors	L.F.	34,600	
6	L108D	No. 6 Green, 600V, XHHW-2 Equipment Safety Ground Wire, Installed in Duct Bank or Conduit, Including Ground Connectors	L.F.	35,750	
7	L108E	No. 6 , 600V, XHHW-2 Power From Equipment Rack to ODAL Master Station, Installed in Conduit, Including Connections	L.F.	795	
8	L108F	No. 2/0 Supplemental Ground Wire with Ground Enhancement Material, Including Cable Trench, Ground Rods and Connections	L.F.	200	
9	L108G	5/C- No. 12, 600V, Type TC Control Cable-XHHW with Overall PVC Jacket Installed in Duct Bank or Conduit	L.F.	3,590	
10	L109A	Installation of Airport Transformer Vault Equipment, in Place	L.S.	1	
11	L109B	Removal of Airport Transformer Vault Equipment, Complete	L.S.	1	
12	L110A	Electrical Conduit, 1-Way, 2" PVC Schedule-40, Direct Earth Burial, Earth Backfill	L.F.	33,050	
13	L110B	Electrical Conduit, 1-Way, 2" PVC Schedule-40, Installed in Existing Bituminous Pavement, Concrete Backfill	L.F.	695	
14	L110C	2" HDPE Directional Bore Conduit, Installed Complete	L.F.	55	
15	L115A	Type "D", 16" x 24" L-867D Base Housing with 3/8" Thick Blank Steel Cover Plate Used as Directional Bore Handhole in Earth Shoulder, Installed Complete	EACH	2	
16	L115B	Type "DB", 24" x 24" L-867E Base Housing with 1/2" Thick Blank Steel Cover Plate Used as Directional Bore Handhole in Earth Shoulder, Installed Complete	EACH	2	
17	L115C	Type "E", 24" x 24" L-867E Base Housing with 1/2" Thick Blank Steel Cover Plate Used as Duct Extension Handhole in Earth Shoulder, Installed Complete	EACH	34	
18	L115D	Type "E", 24" x 24" L-867E Base Housing with 1/2" Thick Blank Steel Cover Plate Used as Duct Extension Handhole in Existing Bituminous Paved Shoulder, Installed Complete	EACH	4	
19	L115E	Type "H", 24" x 24" L-867E Base Housing with 1/2" Thick Blank Steel Cover Plate Used as Handhole in Earth Shoulder, Installed Complete	EACH	5	
20	L125A	L-861, L.E.D, Medium Intensity Runway Edge Light Installed on L-867B Base in Earth Shoulder, Installed Complete	EACH	52	
21	L125B	L-861, L.E.D, Medium Intensity Runway Edge Light Installed on L-867B Base in Existing Paved Shoulder, Installed Complete	EACH	1	
22	L125C	L-861E, L.E.D, Medium Intensity Runway Threshold Light Installed on L-867B Base in Earth Shoulder, Installed Complete	EACH	16	
23	L125D	L-852D, L.E.D, Semi-flush Medium Intensity Runway Edge Light Installed on L-868B Base in Runway Pavement, Installed Complete	EACH	3	
24	L125E	L-861T, L.E.D, Medium Intensity Taxiway Edge Light Installed on L-867B Base in Earth Shoulder, Installed Complete	EACH	200	
25	L125F	L-861T, L.E.D, Medium Intensity Taxiway Edge Light Installed on L-867B Base in Existing Paved Shoulder, Installed Complete	EACH	11	
26	L125G	L-852T, L.E.D. Semi-flush Medium Intensity Taxiway Edge Light Installed on L-868B Base in Existing Paved Shoulder, Installed Complete	EACH	1	
27	L125H	L-858 Sign, Size 2, Style 5, 1-2 Characters, Concrete Pad, in Earth Shoulder, in Place	EACH	9	
28	L125I	L-858 Sign, Size 2, Style 5, 3-4 Characters, Concrete Pad, in Earth Shoulder, in Place	EACH	7	
29	L125J	L-858 Sign, Size 2, Style 5, 5-6 Characters, Concrete Pad, in Earth Shoulder, in Place	EACH	9	
30	L125K	L-858 Sign, Size 2, Style 5, 7-8 Characters, Concrete Pad, in Earth Shoulder, in Place	EACH	1	
31	L125L	L-858 Sign, Size 2, Style 5, 1-2 Characters, Concrete Pad, in Bituminous Paved Shoulder, in Place	EACH	2	
32	L125M	L-858 Sign, Size 2, Style 5, 5-6 Characters, Concrete Pad, in Bituminous Paved Shoulder, in Place	EACH	1	
33	L125N	L-881, Style B, 2-Box PAPI for Runway 7, Installed Complete	EACH	1	
34	L125O	L-881, Style B, 2-Box PAPI for Runway 25, Installed Complete	EACH	1	
35	L125P	Airfield Lighting 6.6 Ampere Series Circuit Field Lightning Arrestor, Installed Complete	EACH	45	
36	L125Q	ODAL Master Light Station with Internal Controller Replacement, Grounding Modifications and TVSS Unit, Installed Complete	EACH	1	
37	L125R	ODAL Co-mounted Slave Light Station Replacement, Grounding Modifications and TVSS Unit, Installed Complete	EACH	3	
38	L125S	ODAL Slave Light Station with Tower Mount Flash Head Replacement, Grounding Modifications and TVSS Unit, Installed Complete	EACH	3	
39	L125T	ODAL System Transformer and Disconnect Switch Equipment Rack, Installed Complete	EACH	1	
40	L125U	Remove Stake or Base Mounted Medium Intensity Runway or Taxiway Edge Light, Complete	EACH	230	
41	L125V	Remove Airfield Guidance Sign Complete, Including Concrete Pad	EACH	16	

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER 5-2-4-11 No. 21653 GARY H. LOT

Designer: CKM/NWM	Checked by: GHL
Technician: NWM	Project Number: 05500005

REVISIONS

No.	Description	Date	By

Project Name:
AIRFIELD LIGHTING REHABILITATION

Drawing Name:
GENERAL NOTES AND SUMMARY OF QUANTITIES

FAA A.I.P. Project Number:
3-45-0002-12-2010 & -14-2011

Date: MAY, 2011	Division: AIRPORTS
Scale: NONE	Sheet Number:
	Drawing Number: GN-1

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