ADDENDUM #3 - REVISED
Issued February 9, 2018

Bid #18-21
Removal of Runway 24 Displaced Threshold and Runway Safety Area Improvements at the Henry County Airport
OPENING: 3:00 PM, February 16, 2018

The following items take precedence over referenced portions of the documents for the above-named project and in executing a contract, will become a part thereof.
Where any item in the documents is supplemented hereby, the original requirements will remain in effect.
All supplemental conditions will be considered as added thereto.
Where any original item is amended, voided or superseded hereby, the provisions of such items not so specifically amended, voided or superseded will remain in effect.

This addendum must be signed and attached to bid proposal to acknowledge receipt of addendum.
Failure to acknowledge any addenda will result in a non-responsive bid.

Company’s Name ______________________ Date ______________________

Authorized Representative’s Name ______________________ Authorized Representative’s Signature ______________________
ADDENDUM NO. 3

TO

CONTRACT DOCUMENTS AND SPECIFICATIONS
FOR IMPROVEMENTS FOR THE
REMOVAL OF RUNWAY 24 DISPLACED THRESHOLD
AND RUNWAY SAFETY AREA IMPROVEMENTS

AT THE
HENRY COUNTY AIRPORT
HAMPTON, GEORGIA

Croy Engineering, LLC Project 1113.05

Date Addendum Issued: February 9, 2018

Bid Date: February 16, 2018

TO ALL BIDDERS: The original contract documents for the above reference project (issued for bid, dated August 23, 2017) are amended as noted herein. This Addendum hereby becomes a part of said contract documents. Acknowledge receipt of this Addendum in the space provided on Page 24. Insofar as those documents are at variance with this Addendum, this Addendum will govern.

Questions:

1. Question: Bid Item 30 for the PAPI has the trenching and circuitry included in the Bid Item description but does not mention the counterpoise wire, which has to be included and have grounding rods every 500’. How is the counterpoise wiring supposed to be paid?
   Answer: See clarification #1 in Addendum #1.

2. Question: Bid Items 33 thru 37 have various Runway lighting items, but make no mention of the necessary trenching, circuitry, or counterpoise wire required for the lighting. How is the trenching, circuitry, and counterpoise wire supposed to be paid?
   Answer: Existing runway edge lights to remain. Filters to be removed and replaced for correct colors as shown on sheets. Existing runway threshold lights to be removed, with one left in place (typical each side of runway). Red threshold lights at existing pavement end to have filters removed and replaced. No new cabling should be required, except for new PAPI location, which was addressed in Addendum #1. See sheets CV-01, DP-02 and LSP-01 for clarification. See the summary of quantities, proposal, section 610 and Section L-101 for further changes.

3. Question: Can the Clearing & Grubbing material be burned on site?
   Answer: Per Note #13 on PL-01, all trash and foreign object debris shall be removed from the site daily. No burning is allowed on the airport property.

4. Question: Is the removal of the Dumped Ground Material that is on site apart of this project?
   Answer: This material was dumped to facilitate the construction of the runway safety area and does not need to be removed.
5. **Question:** Where do we obtain the pricing for Bid Item 13? (Erosion & Sediment Control Fees)
   **Answer:** See question #5 in Addendum #1.

6. **Question:** Is the material need for Bid Item #6 (In-Place Embankment) available on site or is the contractor required to supply from offsite?
   **Answer:** See question #31 in Addendum #1.

7. **Question:** Question 7: What is the maximum time that the runway can be shut down? This needs to be known in an effort to provide enough manpower and resources in the allotted time to perform the activities on or within the RSA, OFA, and RPZ.
   **Answer:** See question #7 in Addendum #1. Work shall be performed in such a manner to minimize the amount of time the airfield is closed. This will depend upon the Contractor.

8. **Question:** Question 10: There are no longer circular symbols with Ch inside them on the up/downstream of CD-S’s on revised plan sheet EC-9, as well as, no detail on EC-13.
   **Answer:** The Ch symbols are now shown on sheet EC-11 with the detail shown on sheet EC-12.

9. **Question:** Question 13/14: The combination of the answers to these questions indicates that there is no longer a bioretention area required for this project, but it is still on the summary of quantities?
   **Answer:** The bioretention area has been removed. Line item #12, Construct Bio-Retention Area, has been removed from the summary of quantities. See the cover sheet, proposal and Section P-155.

10. **Question:** Question 22: The linear footage of 1330 ft is confirmed for Bid Item 14, but plans sheet EC-11 indicate that the bio-slope is 25’x430’. Please confirm.
    **Answer:** Sheet EC-11 shows two locations for bio-slope. One section is 430 feet long and the other is 500 feet for a total length of 1,330 feet.

11. **Question:** Finally to confirm that all grubbing is to be disposed of offsite?
    **Answer:** Per Note #13 on PL-01, all trash and foreign object debris shall be removed from the site daily. No burning is allowed on the airport property. Top 6” of topsoil shall be stockpiled and utilized to dress slopes. Cost to be included in overall bid amount. No separate measurement or payment.

12. **Question:** Plan sheet EC-09 calls for Rip Rap Protection as per detail on plan sheet EC-13. Is there a quantity for this? And how is it to be paid for?
    **Answer:** The riprap protection size, thickness and sizing is shown on sheet EC-09 and shall be included in the overall bid amount for line item #11 P-156-5.1e.

13. **Question:** After compiling quotes from subcontractors, as well as, our estimators, I feel it pertinent to request that projects 18-20 and 18-21 be combined for bidding. Due to the phasing and small quantities of project 18-20, unit pricing will be at a premium. By combining the project; there can be a reduction in unit pricing, no need for paying additional mobilizations to potentially two general contractors, and more streamlined scheduling to reduce shut down time of the airport. We do numerous projects of this
Henry County Airport

nature, and by my estimates, combining the project could potentially save Henry County as much as 10% on the project estimates. Will you consider this request?

Answer: The projects shall be bid separately. They cannot be combined. There is sufficient funding for both projects. Bid projects accordingly.

14. Question: The revised plans are showing the bio-slope with a detail on page EC-13. However I do not see a section thickness for bio material and/or rock. Please clarify.

Answer: There is a dimension on the detail showing a filter media thickness of 1 foot. The gravel encasement surrounding the underdrain pipe should be a minimum of 6 inches on all sides.

15. Question: Why are you removing the thresholds and aiming points on the Runway "6" approach? Are the markings be moved to a new location?

Answer: The aiming point markings are not shown for removal. The threshold stripes are currently marked incorrectly and need to be done to the current specification, so they are shown for removal.

16. Question: On the plans MP-03, the runway edge lines are 3' wide. Currently they are 18" wide. Are we moving the edge lines in towards the middle at accommodate 3'? Is the contractor responsible for removing all the grass that extends over the current edge lines?

Answer: Per AC 150/5340-1L, runways of 100 feet or greater in width have edge striping with a width of 3 feet. The Contractor shall mark the edge of the pavement. Marking the edge lines closer toward the runway centerline, in an effort to avoid overgrowth, reduces the pavement width and is not allowed.

17. Question: I would like to confirm, Waterblasting is the only approve method for paint removal? Grinding is not accepted?

Answer: Waterblasting is the only method acceptable by GDOT to remove pavement markings on an airfield. Grinding causes excessive FOD (foreign object debris).

18. Question: Per Section 1510 Temporary Facilities, 1.05 Temporary Water states that the site is served by a well owned by the Airport Owner. What is the cost of the water used by the contractor?

a. Where on the site will the contractor be able to get the water from- please show on location map?

b. Is there any limits to the amount of water that may be taken for the construction, dust control, compaction water, water blasting, etc.- maximum MG per day?

Answer: Water will be furnished by the Contractor. The statement in regards to the well onsite has been removed. See Section 01510. The Contractor may tap a nearby fire hydrant if they need access to water, but the City/County will typically meter it, so there may be a cost to the Contractor.

19. Question: What is the anticipated date for start of construction- NTP?

Answer: Within one-hundred and twenty (120) days from the date of the bid opening.
20. **Question:** The specification section P-605 was amended (Division 7 - FAA specification) for the Bid #18-20 project (Crack seal and Remark), however we do not find the same amendment to this project? Does the Division 7 – FAA specification P605 apply to this project?
   **Answer:** Special Provision, Section P-605 is located under Division 7 of the specifications.

21. **Question:** It appears that addendum #1 revised erosion drawings deleted the Construct Bio-Retention Area. However the bid item #12 –Construct Bio-Retention Area – 1 each remains, Will this Bid item be deleted?
   **Answer:** The bioretention area has been removed. Line item #12, Construct Bio-Retention Area, has been removed from the summary of quantities. See the cover sheet, proposal and Section P-155.

22. **Question:** Per Section 20 -06 Examination of plans, specs, and site, states that Boring logs and other records of subsurface investigation and test are available for inspection of bidders. We do not find any subsurface information included in the bid documents. Where is this information located? Will the Owner provide this information in the next Addendum?
   **Answer:** The geotech report for Mt. Pleasant Road and the previous Runway Extension are attached. There is no report for this project.

23. **Question:** Bid Items 28 and 29 removal of AMS Signs and Removal of Light Pole, it appears that these items have already been removed, please confirm?
   **Answer:** Please bid project as depicted. If these items are found to already have been removed, they will be nonperformed.

24. **Question:** Per Answer to Question 10 (Addendum #1) which states that a detail was added to drawing EC-13 for the Stabilized Channel Protection (Ch), we do not find this detail on EC-13, please clarify?
   **Answer:** The Ch symbols are now shown on sheet EC-11 with the detail shown on sheet EC-12.

25. **Question:** Drawing DP-01 Shows the removal of the gravel pavement. What is the depth of the existing gravel? The quantity of removal shown on DP-01 is substantial greater then the Bid Item #27 (6400 SY) Please confirm the limits of the gravel Pavement removal to be included in Bid Item 27?
   **Answer:** Depth of gravel drives is approximately 6-8 inches thick. The area of removal has increased. See CV-01 and the proposal.

26. **Question:** Concerning the “Unclassified material” in the “Borrow Pit Area”: Where there any borings done in the “Borrow Pit Area”? If yes, do you have a list of borings from the “Borrow Pit Area” you can send us? The specifications do not call out if there’s any classified or unclassified material in the “Borrow Pit Area”.
   **Answer:** The geotech report for Mt. Pleasant Road and the previous Runway Extension are attached. There is no report for this project.
Henry County Airport

27. **Question:** The detail provided EC-13 and the “SPECIAL PROVISION, SECTION P-156 give a different descriptions of the Bioslope. Which is correct? 
**Answer:** Bioslope installation shall include underdrain pipe, geotextile fabric, backfill material, filter media, gravel, etc., for a complete 25’ wide bioslope area as depicted on EC-13.

28. **Question:** Bid item #12, on the new bid form per addendum #1, still calls out for “Construction Bio-Retention Area”. However, in addendum #1, the answer to question #13 states, “Sheet EC-11 is revised, and no longer shows a bioretention area.” Is bid item #12, per addendum #1, still valid or do we “No Bid” bid item #12? 
**Answer:** The bioretention area has been removed. Line item #12, Construct Bio-Retention Area, has been removed from the summary of quantities. See the cover sheet, proposal and Section P-156.

29. **Question:** Addendum #1 deleted the Bio-retention area that was shown on Dwg EC-11, and the detail for it that was shown on EC-13. However, the Bid Item was not deleted. Does the Bio-retention area still exist? 
**Answer:** The bioretention area has been removed. Line item #12, Construct Bio-Retention Area, has been removed from the summary of quantities. See the cover sheet, proposal and Section P-156.

30. **Question:** Can the Runway be closed every day from the beginning of the crack-seal operation to the completion of the displaced threshold lighting and striping? If not, what is the maximum number of days in a row that the Runway can be closed? 
**Answer:** The runway will be closed from the time crack seal begins until remarking is accomplished. The Contractor is expected to work daily in an effort to keep the runway closure to a minimum.

31. **Question:** The Sd1-NS detail added to plan sheet EC-13 appears to be non-sensitive type silt fence at the bottom of a slope. 1. Are the boundaries of this indicated by the “LOD” markings? 2. Are there quantities and how is this to be paid for? 3. Is this the same type to paid under Bid Item #10 Silt Fence Type C? 
**Answer:** Sd1-NS is equivalent to Silt Fence Type C. It is indicated on the plans with the Silt Fence Type C line type and quantified under Silt Fence Type C. Sd1-NS is to be paid for under Silt Fence Type C.

**Clarifications:**

1. There are three monitoring points. See the cover sheet and proposal.
2. There are no proposed blue taxiway lights.

Remove and Replace the following:
Proposal Documents: Proposal (pages 21-24)
Section 01510: Temporary Facilities (page 01510-1)
Section L-101: Installation of Airport Lighting Systems (page L-101-3)
Section 610: Site Demolition (page 610-4)
Henry County Airport

Section P-156: Temporary Erosion and Sediment Control (pages P-156-3 thru 6)

Sheet CV-01: Cover Sheet
Sheet DP-02: Demolition Plan (sheet 2 of 2)
Sheet LSP-01: Lighting and Signage Plan
Sheet EC-09: Erosion, Sedimentation and Pollution Control Plan – Phase 2
(Sheet 2 of 2)

Attached for Reference (no changes made):
Sheet EC-11: Erosion, Sedimentation and Pollution Control Plan – Phase 3 (Sheet 2 of 2)
Sheet EC-12: Erosion Control Details (Sheet 1 of 3)

END OF ADDENDUM NO. 3
THIS ADDENDUM MUST BE ACKNOWLEDGED IN BID
# PROPOSAL BID FORM

**IMPROVEMENTS TO HENRY COUNTY AIRPORT**  
HAMPTON, GEORGIA

**REMOVAL OF RUNWAY 24 DISPLACED THRESHOLD**  
AND RUNWAY SAFETY AREA IMPROVEMENTS

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<th>GDOT Item No.</th>
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<td>25' wide Bioslope, including Underdrain Pipe, Geotextile Fabric and Backfill Material @</td>
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<td>F-162-5.1</td>
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<td>Remove and Relocate 2-Box PAPI's, including trenching and circuitry @</td>
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<td>Remove Existing 6' high Chain Link Fence @</td>
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<td>L-101-5.1</td>
<td>Remove Bi-Directional Blue/Green Runway Threshold Lights @</td>
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<td>32</td>
<td>L-101-5.2</td>
<td>Replace Bi-Directional, Runway Threshold Light, Yellow/Blue filters with Bi-Directional Clear/Yellow filters @</td>
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<td>L-101-5.3</td>
<td>Replace Red Omni-Directional Runway Threshold Light filters with Red/Green Bi-Directional Filters @</td>
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<td>Replace Runway Edge Light with Clear/Yellow Bi-Directional filters @</td>
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**TOTAL:**
Bid #18-21 at Herry County Airport

January 2018

Changes per Addendum #3

Signature: __________________________________________

(Bidder)

Bidder hereby acknowledges receipt of the following addenda:

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________________________________________
NAME OF BIDDER

BY: ____________________________________________________________________

NAME

TITLE

Business Address: _______________________________________________________

________________________________________
Telephone Number ____________________________________________________

Manufacturer's or Contractor's I.D. No. ________________________________

SUBCONTRACTORS, SUPPLIERS AND OTHERS:

<table>
<thead>
<tr>
<th>Subcontractor/Supplier/Others</th>
<th>Subcontract Work Item</th>
<th>Dollar value of Subcontract work</th>
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Croy Engineering # 1113.05 PROPOSAL DOCUMENTS 24
SECTION 01510
TEMPORARY FACILITIES

1.01 DESCRIPTION:
A. Contractor shall furnish, install and maintain temporary facilities required for construction; remove on completion of Work.
B. Related requirements specified in other sections: The respective Sections of the Specifications.

1.02 REQUIREMENTS OF REGULATORY AGENCIES:
A. Comply with national electric code.
B. Comply with Federal, State, and Local codes and regulations and with utility company requirements.

1.03 MATERIALS - GENERAL:
A. Materials may be new or used, but must be adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements of applicable codes and standards.

1.04 TEMPORARY ELECTRICITY AND LIGHTING:
A. Provide temporary electrical service required for power, lighting, and field offices, and pay all costs for service and for power used.

1.05 TEMPORARY WATER:
A. Provide water for construction purposes; pay all costs for installation, maintenance and removal, and service charges for water used.
B. The Contractor shall provide and pay all costs for water required for the performance of the work.

1.06 TEMPORARY SANITARY FACILITIES:
A. Provide sanitary facilities in compliance with laws and regulations.
B. Service, clean and maintain facilities and enclosures.

1.07 TEMPORARY SUPPORT FACILITIES:
A. General: Provide a reasonably neat and uniform appearance in temporary Support Facilities acceptable to the Engineer and the Owner.
B. Locate field offices, storage and fabrication sheds and other support facilities for easy access to the Work. Position offices so that windows give the best possible view of
construction activities.

C. Maintain field offices, storage and fabrication sheds, temporary sanitary facilities, waste collection and disposal systems, and project identification and temporary signs until near substantial completion. Immediately prior to substantial completion remove these facilities.

D. Access Roads:

1. Location of access roads will be approved by the Engineer and will be set to minimize conflict with the Airport operations and shall be maintained, be well defined and be confined to the minimum area required.

2. The Contractor shall construct the access roads and shall maintain the roads as required to create no dust. All project traffic must be routed through these areas. The Contractor shall provide all markings required to clearly define the access roads.

3. The Contractor may be required to obtain driveway permits for certain access roads. If access roads cross a utility, the Contractor shall protect the utility as directed by the owner of the utility.

1.08 EXECUTION - GENERAL:

Maintain and operate systems to assure continuous service.

1.09 REMOVAL:

Completely remove temporary materials and equipment when their use is no longer required. Clean and repair damage caused by temporary installations or use of temporary facilities.

2.01 MEASUREMENT AND PAYMENT:

There will be no separate measurement and payment for work specified in this Section.

END OF SECTION 01510
DIVISION 6 - CROY - SPECIFICATIONS

SECTION L-101

INSTALLATION OF AIRPORT LIGHTING SYSTEMS

DESCRIPTION

101-1.1 DESCRIPTION: This item shall consist of airport lighting systems removed, relocated and reinstalled in accordance with this specification, the referenced specifications, and the applicable advisory circulars. The systems shall be installed at the location and in accordance with the dimension, design, and details shown in the plans. This item shall include the furnishing of all equipment, materials, services, and incidentals necessary to place the systems in operation as completed units to the satisfaction of the Engineer.

Additional details pertaining to a specific system covered in this item are contained in the advisory circulars listed below.

   AC 150/5340-30 D, Design and Installation details for Airport Navaiads
   AC 150/5340-18 E, Standards for Airport Sign Systems.

EQUIPMENT AND MATERIALS

101-2.1 GENERAL:

(a) Airport lighting equipment and materials covered by FAA specifications shall conform to the requirements of the Federal Aviation Administration, Airports Service, Washington, D.C. 20591, and shall be certified by an independent testing laboratory which has been approved for testing by FAA.

(b) All other equipment and materials covered by other referenced specifications shall be subject to acceptance through the manufacturer’s certification of compliance with the applicable specifications.

(c) Lists of the equipment and materials required for a particular system are contained in the applicable advisory circulars.

101-2.2 FAA SPEC EQUIPMENT:

The existing runway and taxiway lighting system and signs meet current FAA specifications. If any item or fixture is damaged or destroyed during the construction or relocation and installation, the Contractor shall replace said item or fixture with accepted FAA Specification equipment.

Certain items of airport lighting systems are covered by individual FAA equipment specifications. These specifications are listed below. The Contractor shall furnish copies of Certification from an approved independent testing laboratory that the equipment proposed has been satisfactorily tested and is in compliance with the applicable FAA specifications. All equipment shall be furnished by manufacturers who have been continuously engaged in the manufacture of the products proposed for a minimum period of three (3) consecutive years immediately proceeding the bid date.

1. MEDIUM INTENSITY RUNWAY/TAXIWAY LIGHTS - AC 150/5345-46D. FAA Type L-862 and L-850-C with 6.6 Amp quartz halogen lamp and base mounting kit. Provide colored globes or filters for threshold lights as specified on the drawings. Non-metallic bodies are not acceptable. Also includes LED Taxiway Lights.
2. **MANDATORY & GUIDANCE SIGNS**: See plans for type, size, style, and class.

3. **TRANSFORMERS**: AC 150/5345-47B. FAA Spec L-830, 6.6/6.6 amp. 30/45 watt for taxiway lights, size per manufacturer’s requirements for signs.

4. **TRANSFORMER BASES**: AC 150/5345-42F. FAA Type L-867, Class I, Size B, 12 inches diameter, 24 inches deep, non-load bearing, with four (4) 2-inch holes with rubber grommets (Flex-Connex) spaced at 90 degrees.

5. **CONNECTORS**: AC 150/5345-26D. FAA Spec L-823. Type I for primary connections for isolating transformers; Type II for secondary connections to isolating transformers.

All other equipment and materials covered by other referenced specifications shall be subject to acceptance through the manufacturer’s certification of compliance with the applicable specifications.

**101-2.3 TAPE**: Rubber and plastic electrical tapes shall be Scotch Electrical Tape Numbers 23 and 88, respectively, as manufactured by the Minnesota Mining and Manufacturing Company, or an approved equal.

**101-2.4 CONCRETE**: Concrete for light foundations and backfill for flush ground mounted handholes shall conform to the requirements of ASTM C-397 and shall be rated for 3000 psi minimum compressive strength at 28 days.

**101-2.5 CONDUIT**: Rigid steel conduit and fittings shall conform to the requirements of Underwriters Laboratories Publications UL-6.

**CONSTRUCTION METHODS**

**101-3.1 GENERAL**: The installation and testing details for the systems shall be as specified in the applicable advisory circulars.

**101-3.2 PLACING LIGHTS**: The light fixtures shall be installed at the approximate location indicated in the plans. The exact location shall be as directed by the Engineer.

**101-3.3 LIGHT BASE AND JUNCTION BOX**: The light base shall be installed on undisturbed soil as shown on the details. If the soil is unsuitable, then an adequate depth of soil should be removed and replaced with compacted acceptable material. The cable entrance hubs shall be oriented in the proper direction. Level the base so that the mounting flange surface is approximately 1 inch above the finished grade. With the base properly oriented and held at the proper elevation, place approximately 4 inches of concrete backfill around the outside of the base. The top of the concrete shall be sloped away from the flange portion of the base so that the sloped outer edges of the concrete are at surface grade. In conduit systems installed in soil conditions of good drainage, use light bases having a drain hole to prevent water accumulation.

**101-3.4 LIGHT FIXTURES - GENERAL**: The light fixture will be supplied unassembled and consist of an optical system, lamp, connecting leads, and a mounting assembly. The installer shall assemble, connect to mounting, level, and adjust the light fixture in accordance with the manufacturer’s instructions. Care should be taken that the lamp specified by the manufacturer, for the particular use of the light fixture, is installed. The light fixtures shall be leveled and aligned, where appropriate, within 1 degree. The maximum height of the top of the elevated light fixture is as shown on detail plans. In order to facilitate maintenance of light fixtures, identification numbers shall be installed by the following or similar methods.

I.D. tags shall be 3-ply plastic disk with an aluminum wire to attach it to the sign support. See plans for details.

Amber lenses requiring relocation as shown on the plans shall not be a pay item, but shall be incidental to the lighting work.
101-3.5 TAXIWAY GUIDANCE SIGNS: Install per manufacturer's instructions.

METHOD OF MEASUREMENT

101-4.1: The quantity of lights and signs to be paid for under this item shall be the number of each size and type installed as completed units in place, ready for operation, and accepted by the Engineer.

BASIS OF PAYMENT

101-5.1: Payment will be made at the contract unit price for lighting fixtures installed in place by the Contractor and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this Item.

Payment will be made under:

- Item L-101-5.1 Remove Bi-Directional Blue/Green Runway Threshold Lights - per each
- Item L-101-5.2 Replace Bi-Directional, Runway Threshold Light, -- per each
  Yellow/Blue filters with Bi-Directional Clear/Yellow filters
- Item L-101-5.3 Replace Red Omni-Directional Runway Threshold -- per each
  Light filters with Red/Green Bi-Directional Filters
- Item L-101-5.4 Replace Runway Edge Light with Clear/Yellow -- per each
  Bi-Directional filters

FEDERAL SPECIFICATIONS REFERENCED IN ITEM L-101

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WW-C-581</td>
<td>Conduit, Metal, Rigid; and Coupling, Elbow; and Nipple, Electrical Conduit: Zinc-Coated.</td>
</tr>
<tr>
<td>AC 150/5340-18E</td>
<td>Taxiway Guidance Sign System.</td>
</tr>
<tr>
<td>AC 150/5345-26D</td>
<td>Specification for L-823 Plug and Receptacle, Connectors, Cable.</td>
</tr>
<tr>
<td>AC 150/5345-42F</td>
<td>Specification for Airport Light Base and Transformer Housings.</td>
</tr>
<tr>
<td>AC 150/5345-44H</td>
<td>Specification for Taxiway and Runway Signs.</td>
</tr>
<tr>
<td>AC 150/5345-47B</td>
<td>Isolation Transformers for Airport Lighting Systems.</td>
</tr>
<tr>
<td>AC 150/5345-51A</td>
<td>Discharge-Type Flashing Light Equipment.</td>
</tr>
</tbody>
</table>

END OF SECTION L-101
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SECTION 610

SITE DEMOLITION

610.1 General Description
This work includes removing, salvaging, or disposing of items listed in the Proposal as Pay Items to be removed, and backfilling the excavations made during removal.

Remove structures not separately listed as Pay Items in the Contract as specified in Sections 201, 202, or 205.

610.1.01 Definitions
General Provisions 101 through 150.

610.1.02 Related References
A. Standard Specifications
   Section 201—Clearing and Grubbing Right-of-Way
   Section 202—Random Clearing and Grubbing
   Section 205—Roadway Excavation
   Section 208—Embankments
   Section 540—Removal of Existing Bridge
   Section 611—Relaying, Reconstructing, or Adjusting to Grade of Miscellaneous Roadway Structures

B. Referenced Documents
   General Provisions 101 through 150.

610.1.03 Submittals
General Provisions 101 through 150.

610.2 Materials

610.2.01 Delivery, Storage, and Handling
A. Materials Retained by the Department
   Unless removed under Sections 201, 202, or 205, or unless otherwise provided for in the Plans or Proposal, carefully remove materials with a salvage value.
   1. Neatly stack or stockpile the materials along the right-of-way near the removal point and above high water.
   2. Store highway signs standing on edge and protected from the elements.
   3. Replace materials damaged, defaced, or destroyed by removing them carelessly at no cost to the Department.
   4. Notify the Engineer when the materials have been stockpiled and are ready to be transported.
   5. Keep materials secure and replace (at the Contractor’s expense) materials lost, stolen, or missing within a maximum of 10 days after the Engineer has been notified that the materials are ready to be transported.

B. Materials Reused In the Work
   Maintain structures, portions of structures, and other materials to be salvaged and reused in reconstruction work.

   Assume responsibility for the material until Project Final Acceptance.

   Repair or replace materials lost or stolen before reuse at the Contractor’s expense.

   Spread suitable surplus excavation material on the slopes of the roadway embankments. Otherwise, dispose of the waste materials off the right-of-way at the Contractor’s expense.
C. Bridge Components
Dispose of bridge components according to Section 540. Replace or repair at the Contractor's expense structures, portions of structures, or materials to be salvaged, retained, or used in the reconstructed work but that were carelessly damaged or destroyed by the Contractor.

610.3 Construction Requirements

610.3.01 Personnel
General Provisions 101 through 150.

610.3.02 Equipment
General Provisions 101 through 150.

610.3.03 Preparation
If removing a structure may endanger a new construction, finish that part of the work before beginning the new construction.

610.3.04 Fabrication
General Provisions 101 through 150.

610.3.05 Construction
A. Protection of Remaining Structures
Do not use explosives, equipment, or devices that may endanger structures, facilities, or other property to remain in place. If parts of structures are to remain in place, protect them from damage during construction. Protect and preserve the salvage value of materials to be salvaged.

E. Extent of Removal
Separate and remove existing structures, with their attached parts and connections, as shown on the Plans or designated to be removed.

1. When a part of an existing structure is to remain in place, ensure that the part to be removed extends to a construction joint or is cut off to the lines shown on the Plans, leaving reasonably smooth faces. Remove walls and other masonry construction to the bottoms of the foundations unless otherwise specified.
2. Remove walls and their foundations within the roadbed area to an elevation at least 3 ft (900 mm) below the top of the finished subgrade, unless otherwise specified.
3. See Subsection 201.3.05.C.1.c, "Abandoned Obstructions," for guidelines for rigid surfaces.

C. Railway Tracks
Removing railway tracks includes removing rails, ties, switches, towers, concrete structures, sign posts, and other related railway structures. Leave ballast in place, unless otherwise specified.

E. Inlets, Catch Basins, Manholes, and Culverts
1. Remove gratings, trape, and other metal castings of inlets, catch basins, and manholes without damaging them. Reuse them on new structures or salvage them, whichever the Engineer directs.
2. Remove old culverts down to the ground level or to the adjacent water level, unless otherwise shown on Plans.
3. Remove the bottom slabs of inlets, catch basins, manholes, and culverts. If the Engineer permits them to remain in place, break them up so that water will readily pass through them.

E. Removing Pipe
Uncover the pipe to remove it without damage. Exercise care in removing the pipe. Replace pipe sections damaged by negligence at the Contractor's expense.
After removing the pipe, clean it and neatly stack it at points directed by the Engineer along the line of the work. Unless otherwise specified, the pipe is the property of the Department.

F. Septic Tanks
When encountering septic tanks, completely remove the contents of each tank.
1. Remove and dispose of the tank’s contents as required by the State Department of Health and local health authorities.
2. Before backfilling the remaining portion of the septic tank, drill holes in the bottom of the tank or break it up as the Engineer directs, to permit drainage.

G. Backfilling
Backfill trenches and other excavations dug for removing miscellaneous structures.
1. Use approved materials in the backfill.
2. Compact the backfill in layers no more than 6 in (150 mm) thick and with the proper moisture content. Use pneumatic tampers or other approved equipment.
3. Under the roadway, ensure that the degree of compaction conforms to Section 208. Elsewhere, compact the backfill equal to the soil surrounding it.

H. Structures to Remain
Preserve unharmed the miscellaneous structures, including fences, buildings, pipe lines, pole lines, water and sewer lines, and other improvements that owners or the Department will retain or that others will remove.

I. Culverts to be Extended
Where concrete culverts are to be extended, remove a minimum amount of concrete in parapets, wing walls, and wing wall footings to clear the new construction. Make the joint or connection as shown on the Plans or as directed by the Engineer.

J. Fences
When removing fences, do not allow livestock to escape. If fences are to be reset according to Section 611, protect the spelter coating of fence fabric, steel fence posts, and braces.

The Engineer will require that reusable posts removed be clean and free of concrete. If desired, furnish new posts instead of cleaning the old ones at no additional cost to the Department.

K. Raised Edge Curb
Remove raised edge curb to a reasonably true line at the elevation of normal finished pavement.

If the average of the plus and minus deviations approximate the original normal edge of pavement, a tolerance of approximately 1 in (25 mm) above or below this elevation will be accepted. Do not shatter pavement that will be retained.

L. Highway Signs
Remove the entire sign from the supports, and remove the supports from the concrete foundation.

M. Lighting Standards and Appurtenances
Disassemble the lighting standard, and separate each component part including the transformer base. Cut the underground duct before removing these items.

610.3.06 Quality Acceptance
General Provisions 101 through 150.

610.3.07 Contractor Warranty and Maintenance
General Provisions 101 through 150.

610.4 Measurement
Removing miscellaneous roadway items is measured to determine the Unit or Units of each type specified in the Proposal and on the Plans. Only when listed as a Pay Item in the Contract will a
removed item be measured for separate payment.

610.4.01 Limits
General Provisions 101 through 150.

610.5 Payment
Removing miscellaneous roadway items will be paid for at the Contract Unit Price. Payment is full compensation for removing and disposing of the structures according to these Specifications.

Payment will be made under:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>610</td>
<td>Remove Existing Asphalt Pavement, full depth</td>
<td>Per square yard</td>
</tr>
<tr>
<td>610</td>
<td>Remove Existing Gravel Driveway, full depth</td>
<td>Per square yard</td>
</tr>
<tr>
<td>610</td>
<td>Remove and Dispose of Existing AMS Sign and Structure</td>
<td>Per each</td>
</tr>
<tr>
<td>610</td>
<td>Remove and Dispose of Existing Light Pole</td>
<td>Per each</td>
</tr>
<tr>
<td>610</td>
<td>Remove and Relocate 2-Box PAPI's, including trenching and circuitry</td>
<td>Per each</td>
</tr>
<tr>
<td>610</td>
<td>Remove Existing 6' high Chain Link Fence</td>
<td>Per linear foot</td>
</tr>
</tbody>
</table>

610.5.01 Adjustments
General Provisions 101 through 150.

Updated 04/18/2013

END OF SECTION 610
SECTION P-156

TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION AND Siltation Control

156-1.1 This item shall consist of temporary control measures as shown on the plans or as ordered by the Engineer during the life of a contract to control water pollution, soil erosion, and siltation through the use of silt fences, berms, dikes, dams, sediment basins, fiber mats, gravel, mulches, grasses, slope drains, and other erosion control devices or methods.

The temporary erosion control measures contained herein shall be coordinated with the permanent erosion control measures specified as part of this contract to the extent practical to assure economical, effective, and continuous erosion control throughout the construction period.

Temporary control may include work outside the construction limits such as borrow pit operations, equipment and material storage sites, waste areas, and temporary plant sites. Temporary control measures shall be design, installed and maintained to minimize the creation of wildlife attractants that have the potential to attract hazardous wildlife on or near public-use airports.

MATERIALS

156-2.1 Grass. Grass that will not compete with the grasses sown later for permanent cover per Item T-901 shall be a quick-growing species (such as ryegrass, Italian ryegrass, or cereal grasses) suitable to the area providing a temporary cover. Selected grass species shall not create a wildlife attractant.

156-2.2 Mulches. Mulches may be hay, straw, fiber mats, netting, bark, wood chips, or other suitable material reasonably clean and free of noxious weeds and deleterious materials per Item T-908. Mulches shall not create a wildlife attractant.

156-2.3 Fertilizer. Fertilizer shall be a standard commercial grade and shall conform to all Federal and state regulations and to the standards of the Association of Official Agricultural Chemists.

156-2.4 Slope drains. Slope drains may be constructed of pipe, fiber mats, rubble, Portland cement concrete, bituminous concrete, or other materials that will adequately control erosion.

156-2.5 Silt fence. The silt fence shall consist of polymeric filaments which are formed into a stable network such that filaments retain their relative positions. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life. Silt fence shall meet the requirements of ASTM D6451.

156-2.6 Other. All other materials shall meet commercial grade standards and shall be approved by the Engineer before being incorporated into the project.

CONSTRUCTION REQUIREMENTS

156-3.1 General. In the event of conflict between these requirements and pollution control laws, rules, or regulations of other Federal, state, or local agencies, the more restrictive laws, rules, or regulations shall apply.

The Engineer shall be responsible for assuring compliance to the extent that construction practices, construction operations, and construction work are involved.

156-3.2 Schedule. Prior to the start of construction, the Contractor shall submit schedules for accomplishment of temporary and permanent erosion control work for clearing and grubbing; grading; construction; paving; and structures at watercourses. The Contractor shall also submit a proposed method
of erosion and dust control on haul roads and borrow pits and a plan for disposal of waste materials. Work shall not be started until the erosion control schedules and methods of operation for the applicable construction have been accepted by the Engineer.

156-3.3 Construction details. The Contractor will be required to incorporate all permanent erosion control features into the project at the earliest practicable time as outlined in the accepted schedule. Except where future construction operations will damage slopes, the Contractor shall perform the permanent seeding and mulching and other specified slope protection work in stages, as soon as substantial areas of exposed slopes can be made available. Temporary erosion and pollution control measures will be used to correct conditions that develop during construction that were not foreseen during the design stage; that are needed prior to installation of permanent control features; or that are needed temporarily to control erosion that develops during normal construction practices, but are not associated with permanent control features on the project.

Where erosion may be a problem, clearing and grubbing operations should be scheduled and performed so that grading operations and permanent erosion control features can follow immediately if project conditions permit; otherwise, temporary erosion control measures may be required.

The Engineer shall limit the area of clearing and grubbing, excavation, borrow, and embankment operations in progress, commensurate with the Contractor's capability and progress in keeping the finish grading, mulching, seeding, and other such permanent control measures current with the accepted schedule. If seasonal limitations make such coordination unrealistic, temporary erosion control measures shall be taken immediately to the extent feasible and justified as directed by the Engineer.

The Contractor shall provide immediate permanent or temporary pollution control measures to minimize contamination of adjacent streams or other watercourses, lakes, ponds, or other areas of water impoundment as directed by the Engineer. If temporary erosion and pollution control measures are required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the work as scheduled or directed by the Engineer, the work shall be performed by the Contractor and the cost shall be incidental to this item.

The Engineer may increase or decrease the area of erodible earth material that can be exposed at any time based on an analysis of project conditions.

The erosion control features installed by the Contractor shall be acceptably maintained by the Contractor during the construction period.

Whenever construction equipment must cross watercourses at frequent intervals, temporary structures should be provided.

Pollutants such as fuels, lubricants, bitumen, raw sewage, wash water from concrete mixing operations, and other harmful materials shall not be discharged into any waterways, impoundments or into natural or manmade channels.

156-3.4 Installation, maintenance and removal of silt fences. Silt fences shall extend a minimum of 16 inches (41 cm) and a maximum of 34 inches (86 cm) above the ground surface. Posts shall be set no more than 10 feet (3 m) on center. Filter fabric shall be cut from a continuous roll to the length required minimizing joints where possible. When joints are necessary, the fabric shall be spliced at a support post with a minimum 12-inch (300-mm) overlap and securely sealed. A trench shall be excavated approximately 4 inches (100 mm) deep by 4 inches (100 mm) wide on the upslope side of the silt fence. The trench shall be backfilled and the soil compacted over the silt fence fabric. The Contractor shall remove and dispose of silt that accumulates during construction and prior to establishment of permanent erosion control. The fence shall be maintained in good working condition until permanent erosion control is established. Silt fence shall be removed upon approval of the Engineer.
METHOD OF MEASUREMENT

156-4.1 Temporary erosion and pollution control work required will be performed as scheduled or directed by the Engineer. Completed and accepted work will be measured as follows:

a. Temporary seeding and mulching will be measured by the square yard (square meter).

b. Temporary slope drains will be measured by the linear foot (meter).

c. Temporary benches, dikes, dams, and sediment basins will be measured by the cubic yard (cubic meter) of excavation performed, including necessary clearing of sediment basins, and the cubic yard (cubic meter) of embankment placed as directed by the Engineer.

d. All fertilizing will be measured by the ton (kg).

e. Installation and removal of silt fence will be measured by the linear foot.

156-4.2 Control work performed for protection of construction areas outside the construction limits, such as borrow and waste areas, haul roads, equipment and material storage sites, and temporary plant sites, will not be measured and paid for directly but shall be considered as a subsidiary obligation of the Contractor.

BASIS OF PAYMENT

156-5.1 Acceptable quantities of temporary water pollution, soil erosion, and siltation control work ordered by the Engineer and measured as provided in paragraph 156-4.1 will be paid for under:

Item P-156-5.1a Temporary Seeding Complete - per square yard

Item P-156-5.1b Inlet Sediment Trap, including installation, maintenance and removal – per each

Item P-156-5.1c Construction Entrance/Exit, including installation, maintenance and removal – per each

Item P-156-5.1d Silt Fence (Type C), including installation, maintenance and removal – per linear foot

Item P-156-5.1e Construct, Maintain and Remove Temporary Sediment Pond – per each

Item P-156-5.1f Erosion and Sediment Control Fees – per lump sum

Item P-156-5.1g 25' Wide Bioslope, including Underdrain Pipe, Geotextile Fabric and Backfill Material – per linear foot

Where other directed work falls within the specifications for a work item that has a contract price, the units of work shall be measured and paid for at the contract unit price bid for the various items.
Temporary control features not covered by contract items that are ordered by the Engineer will be paid for in accordance with Section 90-05 Payment for Extra work.

MATERIAL REQUIREMENTS

ASTM D6461 Standard Specification for Silt Fence Materials

AC 150/5200-33 Hazardous Wildlife Attractants

Updated 07/21/2014
END OF SECTION P-156