



E-MAILED/MAILED

TO: All Vendors
Tywana Scott, Quality Assurance Analyst
Herbert Judon, Jr., Augusta Regional Airport

FROM: Geri Sams
Procurement Director

DATE: March 7, 2023

SUBJ: **Addendum 1 – Clarifications to the Specifications and Responses to Vendor’s Questions**

BID ITEM: **Bid Item #23-131 Construct Taxiway G for Augusta, GA - Augusta Regional Airport**

BID OPENING DATE: Wednesday, March 15, 2023 @ 3:00 p.m.

ADDENDUM NO. 1

This Addendum shall form a part of the referenced Bid Item #23-131 Construct Taxiway G and any agreement entered into in connection therewith equally as if bound into the original document. Acknowledge receipt of all Addendums on Attachment “B” within the Specifications package.

Clarifications to the Specifications:

Project Manual Changes/Clarifications:

1. Pages BF-1 through BF-48: Updated and revised all line items within the bid tabs for each bid alternative (base bid, bid alt, asphalt shoulder, concrete shoulder). **Delete** previously released pages BF-1 through BF-48 and **replace** with revised pages BF-1 thru BF-49 attached to this Addendum No. 1
2. Page P-620-7: **Delete** previously released page P-620-7 and **replace** with the revised P-620-7 attached to this Addendum No. 1.
3. Page L-108-9: **Delete** previously released page L-108-9 and **replace** with the revised L-108-9 attached to this this Addendum No. 1.

Construction Drawing changes:

1. Sheets G-061 & G-062: Revised sheets to match revised estimate and bid tabs. **Delete** previously released sheets G-061 & G-062 and **replace** with revised sheets G-061 & G-062 attached to this Addendum No. 1.
2. Sheet C-301: Revised sheet. **Delete** previously released sheet C-301 and **replace** with revised page C-301 attached to this Addendum No. 1.

Responses to Vendor’s Questions:

1. Question: A constant current regulator appears to be required (Plan Pages E401, E402, E501, E502) but does not have a corresponding Bid Item or supporting specification. Is this, in fact, required?
Response: The Constant current regulator for Taxiway G shown on sheets E-401 through E-502 was installed with a previous project and is not to be quantified with this project.

Room 605 - 535 Telfair Street, Augusta Georgia 30901
(706) 821-2422 - Fax (706) 821-2811

www.augustaga.gov

Register at www.demandstar.com/supplier for automatic bid notification



Scan this QR code with your smartphone or camera equipped tablet to visit the Augusta, Georgia

2. Question: ALCMS Upgrades/Modifications/Computer Interface appear to be required (Plan Page E502) but does not have a corresponding Bid Item or supporting specification. Is this, in fact required? If so, ALCMS Upgrades/Modifications/Computer Interface would be proprietary to the ALCMS Manufacturer and would request these to be procured outside the project per AIP and ensure no restriction on competition for this Federally Funded Project.
Response: ALCMS Upgrades/Modifications/Computer Interface shall be completed outside the scope of this contract and shall be completed by the Sponsor.
3. Question: Could you specify what is the welded wire mesh for the Reinforced Concrete Slab?
Response: Please refer to Specification section P-501-2.6, pg. P-501-5 and pg. P-501-29. Per the FAA Advisory Circular, "reinforcing steel may be bar mats or welded wire fabric..."
4. Question: Is the project Tax Exempt?
Response: No, the project is not tax exempt.
5. Question: What permits will be required by the contractor?
Response: Various permits shall include grading permit, land disturbance permit, erosion control permit, etc.
6. Question: What is the engineer's estimate for the project?
Response: The Engineer's Estimate will not be made available to any Contractor prior to the bid opening.
7. Question: Is the funding secured for this project?
Response: Yes.
8. Question: Is there a DBE goal for this project?
Response: Yes, please refer to the project manual in the specifications.
9. Question: Are there any known contaminated soils within the project limits?
Response: No known contaminated soils are located within the project limits; however, the contractor shall be responsible for removing and disposing any material found. An Environmental Assessment was completed for the project area in 2018 with an extension granted in 2022.
10. Question: Can topsoil obtained from stripping operations be reused for respread?
Response: Yes.
11. Question: Can a joint plan for the proposed concrete shoulders be provided?
Response: A joint plan for the concrete shoulders shall be provided in the event that the concrete shoulder alternative be awarded.
12. Question: Are transverse basket joints required within the concrete shoulder?
Response: Yes.
13. Question: Can P-304 be used in lieu of P-306?
Response: No.
14. Question: Sheet C-301 detail 3 shows 20" of P-306 in the 10' tie in section. Is this correct?
Response: Yes, in order to transfer the load and construct the thickened edge isolation joint.
15. Question: Can a detail be provided for the reinforced panels?
Response: Please refer to Specification section P-501-2.6, pg. P-501-5 and pg. P-501-29. Per the FAA Advisory Circular, "reinforcing steel may be bar mats or welded wire fabric..."
16. Question: Typical Sections shown on Plan Sheet C-301 show both courses of asphalt as "Asphalt Concrete Surface Course (P-401)", however, the bid form for Base Bid Asphalt Shoulder lists P-401.1 Asphalt Concrete Surface Course and P-403.1 Asphalt Concrete Base Course. Please clarify.
Response: Please refer to the construction drawing change #1 as referenced above.

17. Question: Same issue for Bid Alternate 1 Asphalt Shoulder.
Response: Please refer to the construction drawing change #1 as referenced above.
18. Question: Can asphalt cement grade PG64-22 can be used in the P-403 base course, if the intent is to use P-403 base course instead of the P-401 surface course as shown in the plans?
Response: The PG as specified is required due to the design-aircraft gross weight and type of pavement.
19. Question: Does the respective bidder need to have Augusta, GA business license before the bid date?
Response: Bidder must be licensed in the Governmental entity for where they do the majority of their business. Your company's business license number must be provided on Page 1 of Attachment B. If your Governmental entity (State or Local) does not require a business license, your company will be required to obtain a Richmond County business license if awarded a contract.
20. Question: Do you have to fill out all bid form line items for both concrete and asphalt shoulder base bid as well as alternate 1 and 2? Example, concrete contractor wants to only pave the shoulders in concrete rather than asphalt, therefore, only fills out Base Bid – Concrete Shoulder and Alternate 2 while leaving the Base Bid – Asphalt Shoulder and Alternate 1 forms blank.
Response: No, the contractor does not have to fill each bid form out to its entirety. The Contractor shall fill out the Base Bid and Bid Alt 1 bid tabs per the alternative that they wish to pursue.
21. Question: Does there need to be any special coordination between contractors that maybe currently working at Augusta Regional Airport at the same time this project begins?
Response: This shall be determined during the pre-construction meeting.
22. Question: May a mobile concrete batch plant be erected in the contractor staging area as designated on sheet G-081? Is there readily available utility hook-ups (water/power)?
Response: Yes, a batch plant may be erected in the contractor staging area as shown on sheet G-081, however, the contractor must coordinate with the Airport and Engineer and submit a 7460 for airspace analysis. Water and Power are available at the end of General Perry Smith parkway, however there are no existing hookups. The contractor shall be responsible in coordinating hook-ups with AUD and Georgia Power.
23. Question: Does the temporary construction road need to be removed at the end of the project or is it to remain in place?
Response: Contractor shall coordinate with the Airport at the conclusion of the project to determine if they want it removed or left in place.
24. Question: It appears that quantities are overlapping for Silt Fence, Sediment Trap, Construction Exit, Water Monitoring and Water Quality Inspections between the base bid and bid alternate. These quantities should be split up between their respective Phases.
Response: The overlapping of quantities is due to the permitting process. In order for the overall project to be reviewed and approved, the entirety of the erosion control BMP's must be included within each bid alternative. Once an award has been made and the project is under contract, any necessary revisions to the Erosion Control quantities can be addressed.
25. Question: Please provide a scope of work for the Emergency Erosion Control Mobilization. Nothing in the specifications and/or plan notes are provided.
Response: Emergency Erosion Control Mobilization includes any additional mobilization outside the initial Erosion Control Mobilization efforts that may be needed due to severe weather, unexpected circumstances, etc.
26. Question: Please provide specification and/or detail for the Permanent Water Quality Inserts.

Response: Please refer to the detail attached to this addendum.

27. Question: It appears that the line item Unsuitable/Over Excavation on the base bid (both asphalt & concrete) as well as alternate #1 and alternate 2 have a unit of SY. Is this correct or should it be CY?

Response: Please refer to the Project Manual Changes/Clarifications referenced above #1.

28. Question: The P-152-1.3 specification states that unsuitable material will be disposed of in a designated waste area as shown on the plans. Please identify the designated waste are or should the material be disposed off airport property?

Response: Any unsuitable material shall be disposed of off airport property.

29. How does the contractor get paid to backfill with suitable material from the unsuitable excavation operation? Should there be an Unclassified Excavation, Select fill from On-site Material Item or is backfilling with suitable material incidental to the Unsuitable/Over Excavation Item?

Response: Any backfill required shall be paid under line-item P-152.4 Unsuitable/Over Excavation and is incidental to the overall line item.

30. Question: Please provide a detail for the concrete reinforced slab. Do these slabs require WWF and at what depth?

Response: Please refer to Specification section P-501-2.6, pg. P-501-5 and pg. P-501-29. Per the FAA Advisory Circular, "reinforcing steel may be bar mats or welded wire fabric..."

31. Question: May the Type "C" and Type "E" joints be interchangeable?

Response: No.

32. Question: The topsoil for staging area quantity seems to be overstated and the project site topsoil seems to be understated. There is only 1 acre of seeding in the staging area which would require only 300 cy of topsoil however the quantity is 10x the amount (2,762 cy). Meanwhile, there is 13.45 acre of seeding for the job site and only 390 cy of topsoil. Please verify topsoil quantities for the appropriate areas of work.

Response: Please refer to the Project Manual Changes/Clarifications referenced above #1.

33. Question: What is the distance to connect to power that can supply a 100 amp service for a batch plant.

Response: Approximately 240 LF to 3,500 LF depending on accessibility to Georgia Power utilities.

34. Question: Are we required to bid all bid Schedules and Alternates?

Response: No.

35. Question: Sheet G-082: This sheet lists April 3rd to April 9th 2023 as mandatory shutdowns for the Masters. What are the dates for 2024?

Response: April 8th – April 14th 2024

36. Question: Sheet G-082: Note 2 of the required Airport Security...states that Runways 17-35 and 8-26 and taxiways will always be operations during this work. Please clarify.

Response: Please refer to sheets G-081, G-083, G-084, G-085, and G-086 for any necessary closures of Runways and taxiways.

37. Question: There is no bid item for the marking removal, how will this be paid?

Response: Please refer to the Project Manual Changes/Clarifications referenced above #1.

38. Question: Sheet C-028: If Bid Alternate 1 or 2 is not awarded, will the stabilized haul route have to be extended to the Work Area 1?

Response: Yes.

39. Question: The Base Bid (Work Area 1) currently has a duration of 70 Calendar Days. The amount of work required with the pavements, sections, shoulders with lights and the unproductive concrete paving will require at least 120 days to complete. We ask that this phase be increased to 120 days. It appears Work Areas 2-5 have adequate durations to complete.
Response: The contractor is allowed 60 days of mobilization in which all submittals and mobilization of equipment is to be completed. During these 60 days, the contractor is allowed to begin construction activities granting more than 70 calendar days to WA 1.
40. Question: Can any excess suitable fill be disposed of on airport property and where?
Response: No.
41. Question: Can P-304 be bid at the contractor's choice as an alternate to P-306? P-304 construction is twice as productive and costs less than P-306 and is an acceptable stabilized base alternate by the FAA.
Response: No.
42. Question: Please provide a jointing plan for the PCCP Shoulder alternates so that any dowels, reinforcement, expansion and joint seal costs can be determined.
Response: A joint plan for the concrete shoulders shall be provided in the event that the concrete shoulder alternative be awarded.
43. Question: Sheet C-301: Detail 3: How will the 20" P-306/P-304 be paid?
Response: Contractor shall quantify per P-306.1 line item
44. Question: This identifies Augusta, GA Commission as the OWNER. Section 20 Bid Requirements and Conditions pages GPI-9 and GPI-10, states "The bid guaranty will be made payable to augusta Aviation commission." Who is the correct owner to identify on the Bid Bonds?
Response: It should be made out to Augusta, Georgia, not the Augusta Aviation Commission.
45. Question: How many copies of the bid submittal must be submitted?
Response: The original bid submittal is the only requested copy. Additional copies can be submitted at the bidder's discretion.
46. Question: Pages BF-22 and BF-23, Bid schedule – Bid Alternate 1 (ASPHALT SHOULDER), Line No. 19 is missing, and Line No. 21 is listed twice (different item description, Est. QTY, and Units).
Response: Please refer to the Project Manual Changes/Clarifications referenced above #1.
47. Question: Page BF-36, Bid Schedule – Bid Alternate 2 (CONCRETE SHOULDER), Line No. 51 is missing and Line No. 52 is listed twice (same Item Description, Est. QTY, and Units).
Response: Please refer to the Project Manual Changes/Clarifications referenced above #1.
48. Question: Where should the costs to build, place stone and non-woven fabric for the construction road be included in the bid?
Response: Incidental to Erosion Control Mobilization.
49. Question: Please explain what costs should be included in the "Emergency Erosion Control Mobilization" and what constitutes an emergency? Should this be paid per each for an unknown number of events?
Response: Emergency Erosion Control Mobilization includes any additional mobilization outside the initial Erosion Control Mobilization efforts that may be needed due to severe weather, unexpected circumstances, etc.
50. Question: Please explain what and where the "Permanent Water Quality Inserts" are.
Response: Please refer to the detail included in this addendum. Permanent Water Quality Insert locations shall be provided in final permitting sheet set but shall be

installed within airport project near or adjacent to project site.

51. Question: Is the regulator replacement and ALCMS work in the base or alternate.
Response: The Constant current regulator for Taxiway G shown on sheets E-401 through E-502 was installed with a previous project and is not to be quantified with this project. ALCMS Upgrades/Modifications/Computer Interface shall be completed outside the scope of this contract and shall be completed by the Sponsor.
52. Question: Is the AWOS circuit work in the base or alternate?
Response: The AWOS circuit work is in the Bid Alternate.
53. Question: Which line item will cover the new regulator installation in the vault?
Response: The Constant current regulator for Taxiway G shown on sheets E-401 through E-502 was installed with a previous project and is not to be quantified with this project.
54. Question: Which line item will cover the ALCMS modifications in the vault?
Response: ALCMS Upgrades/Modifications/Computer Interface shall be completed outside the scope of this contract and shall be completed by the Sponsor.
55. Question: Who is the manufacturer of the existing ALCMS system?
Response: ALCMS Upgrades/Modifications/Computer Interface shall be completed outside the scope of this contract and shall be completed by the Sponsor.
56. Question: Which line item will cover the new AWOS disconnect and surge arrester in the vault?
Response: L-108.4 shall include the cost associated with disconnecting the AWOS and surge arrester in the vault.
57. Question: Which line item will cover the new AWOS disconnect at the AWOS?
Response: L-108.4 shall include the cost associated with disconnecting the AWOS and surge arrester in the vault.
58. Question: Will a surge arrester be required at the disconnect at the AWOS?
Response: This shall be determined during the mobilization period between the engineer and electrical contractor.
59. Question: Which line item(s) will cover the new AWOS circuits cable and raceway?
Response: L-108.4 shall include the cost associated with disconnecting the AWOS and surge arrester in the vault.
60. Question: Which line item will cover the airport lighting displacement work to include temporary T-hold lights, rearranging amber lenses, possibly converting colors in inset runway lights, covering/deenergizing signs etc.
Response: P-620.5 Temporary Displaced Threshold should include all work associated with the temporary displacement.
61. Question: Please explain the correlation between line items L-115.2, L-115.3, L-125.2, & L-125.3 for each bid schedule. (Are the base cans paid separate from the lights?)
Response: L-115.2 and L-115.3 are relating to individual junction cans, whereas L-125.2 and L-125.3 are including the entirety of the new Taxiway Edge Light fixture and L-867 Base Can.

Please acknowledge addendum in your submittal

END OF ADDENDUM

**ATTACHMENTS: REVISED BID FORM (49 PAGES)
ITEM P-620-7 (1 PAGE)
ITEM L-108-9 (1 PAGE)
DRAWINGS (3 PAGES)
TYPICAL WATER INSERT (1 PAGE)**

BID FORM

(Failure to furnish all requested data will be cause for considering BIDDER non-responsive and may render this BID invalid on that basis.)

BID FOR: **AUGUSTA REGIONAL AIRPORT
CONSTRUCT TAXIWAY G**

SUBMITTED TO: Augusta-Richmond County
 Attn: Procurement Director
 535 Telfair Street, Room 605
 Augusta, GA 30901

SUBMITTED BY:

Bidder's Name	
Address	
City, State and Zip Code	
Phone / Fax	Date Completed

1. The undersigned, hereinafter called Bidder, in compliance with the "Notice to Bidders" accepting all of the terms and conditions of the "Instructions to Bidders," including without limitation those dealing with the disposition of the Bid Security; proposes and agrees, if awarded the Contract, to enter into an agreement with the Owner utilizing the form Contract included in the Bid Documents. Bidder shall furnish all materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the work to be performed under the Contract within the time indicated in the contract, in full and complete accordance with the shown, noted, described and reasonably intended requirements of the Contract Documents, to the full and entire satisfaction of the Owner, for the amounts contained in this Bid Schedule.
2. This Bidder's bid shall remain open for ninety (90) days after the day of Bid opening. If awarded a contract, Bidder will sign the Contract and submit the Contract Security and other documents required by the Contract Documents within fifteen (15) calendar days after the date indicated in Owner's Notice of Award.
3. In submitting this Bid, the Bidder represents that:
 - a. Bidder has become thoroughly familiar with the terms and conditions of the Bid Documents accepting the same as sufficient to indicate understanding of all the conditions and requirements under the Contract which will be executed for the Work.
 - b. Bidder has examined the site and locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules and regulations) and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as Bidder deems necessary.

- c. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from submitting a bid; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
 - d. No member of the Augusta Board of Commissioners, Aviation Commission or other officers or employees of said Owner is interested directly or indirectly in the bid or in any portion of the bid or in the Contract or any part of the Contract which may be awarded the undersigned on the basis of such bid without such full disclosure being made.
 - e. It is a condition of this bid and any subsequent contract entered into pursuant to this bid, and it shall be made a condition of each subcontract entered into pursuant to the prime contract that the Contractor and any subcontractor shall not require any laborer to mechanic employed in the performance of the contract to work in surroundings or under working conditions which are unsatisfactory, hazardous, or dangerous to his/her health or safety, as determined under Construction Safety and Health Standards, Title 29 , CFR Part 1518 36FR7340, promulgated by the U.S. Secretary of Labor, in accordance with Section 107 of the Contract Work hours and Safety Standards act, Stat. 96; that is further condition of this bid that Bidder shall be solely responsible for the enforcement of such Construction and Health Standards, and that Bidder fully understands that the Owner and its authorized representatives will not assume any liability resulting from the Contractor's failure to police and enforce all such standards.
 - f. The description under each bid item, being briefly stated, implies, although it does not mention, all incidentals and that the prices stated are intended to cover all such work, materials and incidentals as constitute Bidder's obligations as described in the Specifications, and any details not specifically mentioned, but evidently included in the Contract shall be compensated for in the item which most logically includes it.
 - g. The unit prices bid include all applicable taxes and fees. Bids shall also include appropriate provisions for price escalation for materials and labor including but not limited to increases in federal, state and local sales taxes and income or FICA taxes.
4. **Contract Time:** Bidder agrees that:
- a. The work will be completed within the timeframes described in the General Provisions and the Construction Documents.
 - b. Bidder shall commence work with an adequate force and equipment at the time stated in the Notice to Proceed and complete all work by the date established in said Notice. Bidder shall not work overtime or on Saturdays, Sundays, or legal holidays except as specifically allowed by the Contract Documents and approved by the Owner.
 - c. **The quantities of work listed in the Bid Schedules are APPROXIMATE and are assumed solely for the comparison of bids. Compensation will be based upon the unit price bid and the ACTUAL quantities of work performed in accordance with the Contract Documents and as accepted by the ENGINEER.**
5. **Bid Schedule:** See attached Pages BF-3 through BF-36.

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
1	C-100.1	Contractor Quality Control program (CQCP)	1	LS		
	Written Unit Price					
2	C-102.1a	Installation, Maintenance, and Removal of Silt Fence or Silt Sock, Type A	11,754	LF		
	Written Unit Price					
3	C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	48	EA		
	Written Unit Price					
4	C-102.1c	Construct, Maintain, and Remove Construction Exit	1	EA		
	Written Unit Price					
5	C-102.1d	Water Quality Monitoring and Sampling	36	EA		
	Written Unit Price					
6	C-102.1e	Water Quality Inspections	18	EA		
	Written Unit Price					
7	C-102.1f	Erosion Control Mobilization	1	LS		
	Written Unit Price					

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)
Location of Project: Augusta Regional Airport, Augusta, Georgia
Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
8	C-102.1g	Emergency Erosion Control Mobilization	1	LS		
Written Unit Price						
9	C-102.1h	Permanent Water Quality Inserts	14	EA		
Written Unit Price						
10	C-105.1	Mobilization, Clean-up and Demobilization	1	LS		
Written Unit Price						
11	C-105.2	Airfield Safety & Traffic Control	1	LS		
Written Unit Price						
12	P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	2,032	SY		
Written Unit Price						
13	P-101.2	Cold Milling	233	SY		
Written Unit Price						
14	P-152.1	Unclassified Excavation, Dispose Off Site	3,290	CY		
Written Unit Price						

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
15	P-152.3	Subgrade Preparation	16,190	SY		
Written Unit Price						
16	P-152.4	Unsuitable/Over Excavation	5,000	CY		
Written Unit Price						
17	P-154.1	Aggregate Base Course (6" Depth)	1,607	CY		
Written Unit Price						
18	P-154.2	Aggregate Base Course (12" Depth)	1,895	CY		
Written Unit Price						
19	P-306.1	Lean Concrete Base Course (5"Depth)	11,170	SY		
Written Unit Price						
20	P-401.1	Asphalt Concrete Surface Course (4" Depth)	1,085	TON		
Written Unit Price						
21	P-403.1	Asphalt Concrete Base Course (4" Depth, 30% RAP)	1,085	TON		
Written Unit Price						

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
22	P-501.1	Portland Cement Concrete Pavement (14" Depth)	10,581	SY		
Written Unit Price						
23	X-501.1	Portland Cement Concrete Curing Facility	1	LS		
Written Unit Price						
24	P-602.1	Emulsified Asphalt Prime Coat	482	Gal		
Written Unit Price						
25	P-603.1	Emulsified Asphalt Tack Coat	241	Gal		
Written Unit Price						
26	P-605.1	Joint Sealing Filler	17,577	LF		
Written Unit Price						
27	P-620.1	Permanent Pavement Markings	9,393	SF		
Written Unit Price						
28	P-620.2	Temporary Pavement Markings	9,393	SF		
Written Unit Price						

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
29	P-620.3	Reflective Media	280	LBS		
Written Unit Price						
30	P-620.4	Thermoplastic Preformed Surface Sign	2	EA		
Written Unit Price						
31	P-620.6	Marking Removal	5,566	SF		
Written Unit Price						
32	D-701.1	Concrete Sewer Pipe, 18-inch, Class V	70	LF		
Written Unit Price						
33	D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	1,165	LF		
Written Unit Price						
34	D-705.2	Underdrain Cleanout	8	EA		
Written Unit Price						
35	D-751.2	Airfield Inlet with Aircraft Rated Grate	1	EA		
Written Unit Price						

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)
Location of Project: Augusta Regional Airport, Augusta, Georgia
Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
36	D-751.3	Adjust Storm Manhole/Inlet to Grade	1	EA		
Written Unit Price						
37	D-751.4	Connect Storm Pipe to Existing Storm Structure	1	EA		
Written Unit Price						
38	T-901.1	Temporary Seeding	3	AC		
Written Unit Price						
39	T-901.2	Permanent Seeding	3	AC		
Written Unit Price						
40	T-901.3	Seeding, Staging Area	1	AC		
Written Unit Price						
41	T-905.1	Topsoiling (Obtain Onsite or Removed from Stockpile)	1173	CY		
Written Unit Price						
42	T-905.2	Topsoiling, Staging Area	2,762	CY		
Written Unit Price						

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
43	L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	1,696	LF		
	Written Unit Price					
44	L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable	2,789	LF		
	Written Unit Price					
45	L-108.3	Remove Abandoned Communication Line	1,957	LF		
	Written Unit Price					
46	L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	364	LF		
	Written Unit Price					
47	L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	367	LF		
	Written Unit Price					
48	L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	2,089	LF		
	Written Unit Price					
49	L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	426	LF		
	Written Unit Price					

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
50	L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	1	EA		
Written Unit Price						
51	L-115.2	Electrical Junction Can with Aircraft rated Blank Cover, without Drainage	1	EA		
Written Unit Price						
52	L-115.3	Electrical Junction Can with Blank Cover, without Drainage	1	EA		
Written Unit Price						
53	L-125.1	In-Pavement LED Medium Intensity Runway Edge Light, L-852D (L)	2	EA		
Written Unit Price						
54	L-125.2	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can With Drainage	25	EA		
Written Unit Price						
55	L-125.3	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can Without Drainage	11	EA		
Written Unit Price						
56	L-125.4	Miscellaneous Lighting Equipment	1	LS		
Written Unit Price						

BID SCHEDULE – BASE BID (ASPHALT SHOULDER)
Location of Project: Augusta Regional Airport, Augusta, Georgia
Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
57	L-125.5	Remove Edge Light Fixture and/or Base Can	5	EA		
Written Unit Price						
58	L-125.6	L-858(L) Airfield Guidance Sign, 1 Module	2	EA		
Written Unit Price						
59	L-125.7	L-858(L) Airfield Guidance Sign, 2 Module	2	EA		
Written Unit Price						
60	L-125.9	L-858(L) Airfield Guidance Sign, 4 Module	1	EA		
Written Unit Price						
61	L-125.10	Non-Lighted Taxiway End Sign	1	EA		
Written Unit Price						
62	L-125-11	Edge Light Number Tags	36	EA		
Written Unit Price						

Total Base Bid (Asphalt Shoulder) = _____

Total Base Bid Written (Asphalt Shoulder) = _____

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
1	C-100.1	Contractor Quality Control program (CQCP)	1	LS		
	Written Unit Price					
2	C-102.1a	Installation and Removal of Silt Fence or Silt Sock, Type A	11,754	LF		
	Written Unit Price					
3	C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	48	EA		
	Written Unit Price					
4	C-102.1c	Construct, Maintain, and Remove Construction Exit	1	EA		
	Written Unit Price					
5	C-102.1d	Water Quality Monitoring and Sampling	36	EA		
	Written Unit Price					
6	C-102.1e	Water Quality Inspections	18	EA		
	Written Unit Price					
7	C-102.1f	Erosion Control Mobilization	1	LS		
	Written Unit Price					

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
8	C-102.1g	Emergency Erosion Control Mobilization	1	LS		
	Written Unit Price					
9	C-102.h	Permanent Water Quality Inserts	14	EA		
	Written Unit Price					
10	C-105.1	Mobilization, Clean-up and Demobilization	1	LS		
	Written Unit Price					
11	C-105.2	Airfield Safety and Traffic Control	1	LS		
	Written Unit Price					
12	P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	1,972	SY		
	Written Unit Price					
13	P-101.2	Cold Milling	233	SY		
	Written Unit Price					
14	P-152.1	Unclassified Excavation, Dispose Off Site	3,290	CY		
	Written Unit Price					

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
15	P-152.3	Subgrade Preparation	16,190	SY		
	Written Unit Price					
16	P-152.4	Unsuitable/Over Excavation	5,000	CY		
	Written Unit Price					
17	P-154.1	Aggregate Base Course (6" Depth)	2,698	CY		
	Written Unit Price					
18	P-306.1	Lean Concrete Base Course (5" Depth)	11,170	SY		
	Written Unit Price					
19	P-501.1	Portland Cement Concrete Pavement (14" Depth)	15,402	SY		
	Written Unit Price					
20	X-501.1	Portland Cement Concrete Curing Facility	1	LS		
	Written Unit Price					
21	P-605.1	Joint Sealing Filler	17,577	LF		
	Written Unit Price					

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
22	P-620.1	Permanent Pavement Markings	9,393	SF		
	Written Unit Price					
23	P-620.2	Temporary Pavement Markings	9,393	SF		
	Written Unit Price					
24	P-620.3	Reflective Media	280	LBS		
	Written Unit Price					
25	P-620.4	Thermoplastic Preformed Surface Sign	2	EA		
	Written Unit Price					
26	P-620.6	Marking Removal	5566	SF		
	Written Unit Price					
27	D-701.1	Concrete Sewer Pipe, 18-Inch, Class V	70	LF		
	Written Unit Price					
28	D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	1,165	LF		
	Written Unit Price					

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
29	D-705.2	Underdrain Cleanout	8	EA		
	Written Unit Price					
30	D-751.2	Airfield Inlet with Aircraft Rated Grate	1	EA		
	Written Unit Price					
31	D-751.3	Adjust Storm Manhole/Inlet to Grade	1	EA		
	Written Unit Price					
32	D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	1	EA		
	Written Unit Price					
33	T-901.1	Temporary Seeding	3	AC		
	Written Unit Price					
34	T-901.2	Permanent Seeding	3	AC		
	Written Unit Price					
35	T-901.3	Seeding, Staging Area	1	AC		
	Written Unit Price					

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
36	T-905.1	Topsoiling (Obtain Onsite or Removed from Stockpile)	1173	CY		
	Written Unit Price					
37	T-905.2	Topsoiling, Staging Area	2,762	CY		
	Written Unit Price					
38	L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	1,696	LF		
	Written Unit Price					
39	L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable	2,789	LF		
	Written Unit Price					
40	L-108.3	Remove Abandoned Communication Line	1,957	LF		
	Written Unit Price					
41	L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	364	LF		
	Written Unit Price					
42	L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	367	LF		
	Written Unit Price					

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
43	L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	2,089	LF		
Written Unit Price						
44	L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	426	LF		
Written Unit Price						
45	L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	1	EA		
Written Unit Price						
46	L-115.2	Electrical Junction Can with Aircraft rated Blank Cover, without Drainage	1	EA		
Written Unit Price						
47	L-115.3	Electrical Junction Can with Blank Cover, without Drainage	1	EA		
Written Unit Price						
48	L-125.1	In-Pavement LED Medium Intensity Runway Edge Light, L-852D (L)	2	EA		
Written Unit Price						
49	L-125.2	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can With Drainage	25	EA		
Written Unit Price						

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
Location of Project: Augusta Regional Airport, Augusta, Georgia
Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
50	L-125.3	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can Without Drainage	11	EA		
	Written Unit Price					
51	L-125.4	Miscellaneous Lighting Equipment	1	LS		
	Written Unit Price					
52	L-125.5	Remove Edge Light Fixture and/or Base Can	5	EA		
	Written Unit Price					
53	L-125.6	L-858(L) Airfield Guidance Sign, 1 Module	2	EA		
	Written Unit Price					
54	L-125.7	L-858(L) Airfield Guidance Sign, 2 Module	2	EA		
	Written Unit Price					
55	L-125.9	L-858(L) Airfield Guidance Sign, 4 Module	1	EA		
	Written Unit Price					
56	L-125.10	Non-Lighted Taxiway End Sign	1	EA		
	Written Unit Price					

BID SCHEDULE – BASE BID (CONCRETE SHOULDER)
 Location of Project: Augusta Regional Airport, Augusta, Georgia
 Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
57	L-125-11	Edge Light Number Tags	36	EA		
	Written Unit Price					

Total Base Bid (Concrete Shoulder) = _____

Total Base Bid (Concrete Shoulder) Written = _____

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
1	C-100.1	Contractor Quality Control program (CQCP)	1	LS		
	Written Unit Price					
2	C-102.1a	Installation, Maintenance, and Removal of Silt Fence or Silt Sock, Type A	11,754	LF		
	Written Unit Price					
3	C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	48	EA		
	Written Unit Price					
4	C-102.1c	Construct, Maintain, and Remove Construction Exit	1	EA		
	Written Unit Price					
5	C-102.1d	Water Quality Monitoring and Sampling	36	EA		
	Written Unit Price					
6	C-102.1e	Water Quality Inspections	18	EA		
	Written Unit Price					
7	C-102.1f	Erosion Control Mobilization	1	LS		
	Written Unit Price					

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
8	C-102.1g	Emergency Erosion Control Mobilization	1	LS		
Written Unit Price						
9	C-105.1	Mobilization, Clean-up and Demobilization	1	LS		
Written Unit Price						
10	C-105.2	Airfield Safety & Traffic Control	1	LS		
Written Unit Price						
11	P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	488	SY		
Written Unit Price						
12	P-101.3	Remove Existing 36" RCP	102	LF		
Written Unit Price						
13	P-152.2	Unclassified Excavation, Select Fill from On-Site	2,844	CY		
Written Unit Price						
14	P-152.3	Subgrade Preparation	37,137	SY		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
15	P-152.4	Unsuitable/Over Excavation	10,000	CY		
	Written Unit Price					
16	P-154.1	Uncrushed Aggregate Base Course (6" Depth)	3,998	CY		
	Written Unit Price					
17	P-154.2	Uncrushed Aggregate Base Course (12" Depth)	4,383	CY		
	Written Unit Price					
18	P-306.1	Lean Concrete Base Course (5" Depth)	23,536	SY		
	Written Unit Price					
20	P-401.1	Asphalt Concrete Surface Course (4" Depth)	2,959	TON		
	Written Unit Price					
21	P-403.1	Asphalt Concrete Base Course (4" Depth, 30% RAP)	2,959	TON		
	Written Unit Price					
21	P-501.1	Portland Cement Concrete Pavement (14" Depth)	22,182	SY		
	Written Unit Price					

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
22	X-501.1	Portland Cement Concrete Curing Facility	1	LS		
Written Unit Price						
23	P-602.1	Emulsified Asphalt Prime Coat	1,315	Gal		
Written Unit Price						
24	P-603.1	Emulsified Asphalt Tack Coat	657	Gal		
Written Unit Price						
25	P-605.1	Joint Sealing Filler	32,861	LF		
Written Unit Price						
26	P-620.1	Permanent Pavement Markings	81,652	SF		
Written Unit Price						
27	P-620.2	Temporary Pavement Markings	81,652	SF		
Written Unit Price						
28	P-620.3	Reflective Media	272	LBS		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
29	P-620.4	Thermoplastic Preformed Surface Sign	2	EA		
Written Unit Price						
30	P-620.5	Temporary Displaced Threshold	1	LS		
Written Unit Price						
31	D-701.1	Concrete Sewer Pipe, 18" Class V	231	LF		
Written Unit Price						
32	D-701.2	Concrete Sewer Pipe, 24" Class V	89	LF		
Written Unit Price						
33	D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	3,281	LF		
Written Unit Price						
34	D-705.2	Underdrain Cleanout	14	EA		
Written Unit Price						
35	D-751.1	Aircraft Rated Manhole with Aircraft Rated Lid	2	EA		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
36	D-751.2	Airfield Inlet with Aircraft Rated Grate	1	EA		
	Written Unit Price					
37	D-751.3	Adjust Storm Manhole/Inlet to Grade	1	EA		
	Written Unit Price					
38	D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	1	EA		
	Written unit Price					
39	T-901.1	Temporary Seeding	6	AC		
	Written Unit Price					
40	T-901.2	Permanent Seeding	6	AC		
	Written Unit Price					
41	T-901.3	Seeding, Staging Area	1	AC		
	Written Unit Price					
42	T-905.1	Topsoiling (Obtain Onsite or Removed from Stockpile)	2,612	CY		
	Written Unit Price					

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
43	T-905.2	Topsoiling, Staging Area	2,762	CY		
Written Unit Price						
44	L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	5,141	LF		
Written Unit Price						
45	L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable	5,565	LF		
Written Unit Price						
46	L-108.4	No. 6, 600V, XHHW Cable	LF	525		
Written Unit Price						
47	L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	354	LF		
Written Unit Price						
48	L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	372	LF		
Written Unit Price						
49	L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	4,255	LF		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
50	L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	1,046	LF		
Written Unit Price						
51	L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	2	EA		
Written Unit Price						
52	L-115.3	Electrical Junction Can with Blank Cover, without Drainage	1	EA		
Written Unit Price						
53	L-125.2	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can With Drainage	22	EA		
Written Unit Price						
54	L-125.3	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can Without Drainage	28	EA		
Written Unit Price						
55	L-125.4	Miscellaneous Lighting Equipment	1	LS		
Written Unit Price						
56	L-125.6	L-858(L) Airfield Guidance Sign, 1 Module	2	EA		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 1 (ASPHALT SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
57	L-125.7	L-858(L) Airfield Guidance Sign, 2 Module	1	EA		
Written Unit Price						
58	L-125.8	L-858(L) Airfield Guidance Sign, 3 Module	1	EA		
Written Unit Price						
59	L-125.9	L-858(L) Airfield Guidance Sign, 4 Module	4	EA		
Written Unit Price						
60	L-125.10	Edge Light Number Tags	50	EA		
Written Unit Price						

Total Bid Alternate 1 (Asphalt Shoulder) = _____

Total Bid Alternate 1 (Asphalt Shoulder) Written = _____

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
1	C-100.1	Contractor Quality Control program (CQCP)	1	LS		
	Written Unit Price					
2	C-102.1a	Installation, Maintain, and Removal of Silt Fence or Silt Sock, Type A	11,754	LF		
	Written Unit Price					
3	C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	48	EA		
	Written Unit Price					
4	C-102.1c	Construct, Maintain, and Remove Construction Exit	1	EA		
	Written Unit Price					
5	C-102.1d	Water Quality Monitoring and Sampling	36	EA		
	Written Unit Price					
6	C-102.1e	Water Quality Inspections	18	EA		
	Written Unit Price					
7	C-102.1f	Erosion Control Mobilization	1	LS		
	Written Unit Price					

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
8	C-102.1g	Emergency Erosion Control Mobilization	1	LS		
	Written Unit Price					
9	C-105.1	Mobilization, Clean-up and Demobilization	1	LS		
	Written Unit Price					
10	C-105.2	Airfield Safety and Traffic Control	1	LS		
	Written Unit Price					
11	P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	488	SY		
	Written Unit Price					
12	P-101.3	Remove Existing 36" RCP	102	LF		
	Written Unit Price					
13	P-152.2	Unclassified Excavation, Select Fill from On-Site	2,844	CY		
	Written Unit Price					
14	P-152.3	Subgrade Preparation	37,137	SY		
	Written Unit Price					

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
15	P-152.3	Unsuitable/Over Excavation	20,600	CY		
Written Unit Price						
16	P-154.1	Uncrushed Aggregate Base Course (6" Depth)	6,189	CY		
Written Unit Price						
17	P-306.1	Lean Concrete Base Course (5" Depth)	23,536	SY		
Written Unit Price						
18	P-501.1	Portland Cement Concrete Pavement (14" Depth)	35,331	SY		
Written Unit Price						
19	X-501.1	Portland Cement Concrete Curing Facility	1	LS		
Written Unit Price						
20	P-605.1	Joint Sealing Filler	32,861	LF		
Written Unit Price						
21	P-620.1	Permanent Pavement Markings	81,652	SF		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
22	P-620.2	Temporary Pavement Markings	81,652	SF		
Written Unit Price						
23	P-620.3	Reflective Media	5,532	LBS		
Written Unit Price						
24	P-620.4	Thermoplastic Preformed Surface Sign	2	EA		
Written Unit Price						
25	P-620.5	Temporary Displaced Threshold	1	LS		
Written Unit Price						
26	D-701.1	Concrete Sewer Pipe, 18" Class V	231	LF		
Written Unit Price						
27	D-701.2	Concrete Sewer Pipe, 24" Class V	89	LF		
Written Unit Price						
28	D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	3,281	LF		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
29	D-705.2	Underdrain Cleanout	14	EA		
Written Unit Price						
30	D-751.1	Aircraft Rated Manhole with Aircraft Rated Lid	2	EA		
Written Unit Price						
31	D-751.2	Airfield Inlet with Aircraft Rated Grate	1	EA		
Written Unit Price						
32	D-751.3	Adjust Storm Manhole/Inlet to Grade	1	EA		
Written Unit Price						
33	D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	1	EA		
Written Unit Price						
34	T-901.1	Temporary Seeding	6	AC		
Written Unit Price						
35	T-901.2	Permanent Seeding	6	AC		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
36	T-901.3	Seeding, Staging Area	1	AC		
Written Unit Price						
37	T-905.1	Topsoiling (Obtain Onsite or Removed from Stockpile)	2,612	CY		
Written Unit Price						
38	T-905.2	Topsoiling, Staging Area	2,762	CY		
Written Unit Price						
39	L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	5,141	LF		
Written Unit Price						
40	L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable	5,565	LF		
Written Unit Price						
41	L-108.4	No. 6, 600V, XHHW Cable	525	LF		
Written Unit Price						
42	L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	354	LF		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
43	L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	372	LF		
Written Unit Price						
44	L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	4,255	LF		
Written Unit Price						
45	L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	1,046	LF		
Written Unit Price						
46	L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	2	EA		
Written Unit Price						
47	L-115.3	Electrical Junction Can with Blank Cover, without Drainage	1	EA		
Written Unit Price						
48	L-125.2	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can with Drainage	22	EA		
Written Unit Price						
49	L-125.3	Base Mounted, LED Medium Intensity Taxiway Edge Light, L-861T on New L-867B Base Can Without Drainage	28	EA		
Written Unit Price						

BID SCHEDULE – BID ALTERNATE 2 (CONCRETE SHOULDER)

Location of Project: Augusta Regional Airport, Augusta, Georgia

Title of Project: Augusta Regional Airport Construct Taxiway G

Line No.	Item No.	Item Description	Est. Qty.	Units	Unit Price	Bid Amount
50	L-125.4	Miscellaneous Lighting Equipment	1	LS		
Written Unit Price						
51	L-125.6	L-858(L) Airfield Guidance Sign, 1 Module	2	EA		
Written Unit Price						
52	L-125.8	L-858(L) Airfield Guidance Sign, 3 Module	1	EA		
Written Unit Price						
53	L-125.8	L-858(L) Airfield Guidance Sign, 3 Module	1	EA		
Written Unit Price						
54	L-125.9	L-858(L) Airfield Guidance Sign, 4 Module	4	EA		
Written Unit Price						
55	L-125.11	Edge Light Number Tags	50	EA		
Written Unit Price						

Total Bid Alternate 2 (Concrete Shoulder) = _____

Total Bid Alternate 2 (Concrete Shoulder) Written = _____

SUMMARY OF BID

BASE BID (Asphalt Shoulder) = _____

BASE BID (ASPHALT SHOULDER) WRITTEN: _____

BASE BID (Concrete Shoulder) = _____

BASE BID (Concrete Shoulder) Written = _____

BID ALTERNATE 1 (Asphalt Shoulder) = _____

BID ALTERNATE 1 (Asphalt Shoulder) Written = _____

BID ALTERNATE 2 (Concrete Shoulder) = _____

BID ALTERNATE 2 (Concrete Shoulder) Written = _____

TOTAL BASE BID + BID ALTERNATE 1 (ASPHALT SHOULDER) = _____

TOTAL BASE BID + BID ALTERNATE 1 (ASPHALT SHOULDER) WRITTEN = _____

TOTAL BASE BID + BID ALTERNATE 2 (CONCRETE SHOULDER) = _____

TOTAL BASE BID + BID ALTERNATE 2 (CONCRETE SHOULDER) WRITTEN = _____

- 6. **Determination of Low Bidder:** Low bidder will be determined based on the total of the base bid plus all bid alternates regardless of the alternates chosen for the project.

- 7. **Execution of Contract:** Bidder agrees that in case of failure on its part to execute the said Contract and Bonds within fifteen (15) days after the date indicated in the "Notice of Award," the check or bid bond accompanying this bid, and the money payable thereon, shall be paid to the Owner as liquidated damages for such failure; otherwise the Bid Security or check accompanying this bid shall be returned to the undersigned.

8. **Documentation:** The following required documents are attached to and made a part of this bid
- a. Required Bid Security in the form of a Bid Bond payable to the order of the City of Augusta;
 - b. Performance of Work by Subcontractor List;
 - c. Certificate of Prompt Payment

9. Name and business address (mailing and street) of Bidder to which all formal notices shall be sent:

10. The terms used in this bid, which are defined in the General Provisions of the Construction Contract as a part of the Contract Documents, have the meanings assigned to them in the General Provisions.

11. Bidder hereby acknowledges receipt of the following addenda:

Addendum No.	Date
_____	_____
_____	_____
_____	_____

12. The Bidder shall state on the line below, if a corporation, the name of state in which incorporated and the date of said corporation.

Signed this _____ day of _____, 20_____.

Contractor

By: _____

(Signature of individual, partner or officer signing the Bid)

(SEAL)

License Number

ATTEST:

NOTE: If Contractor is a Corporation, Secretary should attest seal. Seal is required if Bidder is a Corporation. If Contractor is a Partnership, all partners shall execute the bid (add spaces as required).

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned

as **Principal**, and

as **Surety**, are hereby

held and firmly bound unto _____ as **Owner**

in the penal sum of _____

for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

Signed this _____ day of _____, 20_____.

The conditions of the above obligation is such that whereas the Principal has submitted to the Augusta Airport Aviation Commission certain Bill, attached hereto and hereby made a part hereof to enter into a Contract in writing for the Construction of:

AUGUSTA REGIONAL AIRPORT CONSTRUCT TAXIWAY G

NOW THEREFORE,

- (a) If said bid shall be rejected, or in the alternate,
- (b) If said bid shall be accepted, and the Principal shall execute and deliver a Contract in the Form of Contract attached hereto (properly completed in accordance with said Bill) and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bill, the this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, thereby stipulates and agrees that obligations of said Surety and its Bonds shall be in no way impaired or affected by any extension of the time within which the Owner may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

(L.S.)
Principal

Surety

By:

(SEAL)

- (1) Date of Bond must be same date as bid.
- (2) Bond must be signed or countersigned by Surety's proper Georgia Resident Agent. Date of Power-of-Attorney shall be same date as date of Bond.
- (3) If a Partnership, all partners shall execute Bond.

CERTIFICATION OF PROMPT PAYMENT

The prime Contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than thirty (30) days from the receipt of each payment the prime Contractor receives from the Owner. The prime Contractor further agrees to return retainage payments to each subcontractor within thirty (30) days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval from the Owner. This clause applies to both DBE and non-DBE subcontractors.

Name of Bidder's
Authorized Representative
(Please Print or Type Name)

Signature of Bidder's
Authorized Representative

Title of Bidder's
Authorized Representative

Date



UTILIZATION STATEMENT Disadvantage Business Enterprise (DBE)

The undersigned Bidder has satisfied the requirements of the bid specification in the following manner. *(Please mark the appropriate box)*

- The Bidder is committed to a minimum of _____ % DBE utilization on this contract.
- The Bidder, while unable to meet the DBE contract goal of _____%, hereby commits to a minimum of _____% DBE utilization on this contract and submits the attached documentation as evidence demonstrating good faith efforts (GFE) in seeking participation by certified DBE firms.

The undersigned hereby further assures that the information included herein is true and correct, and that the DBE firm or firms identified within the submitted Letter-of-Intent forms have agreed to perform a commercially useful function for the indicated work elements.

The undersigned further understands that no changes to this statement may be made without prior approval from the Owner and the Federal Aviation Administration.

Bidder's / Offeror's Firm Name

Signature

Date

DBE UTILIZATION SUMMARY

Percentage	Contract amount	DBE Amount	Contract
DBE Prime Contractor	\$ x 1.00 =	\$	%
DBE Subcontractor	\$ x 1.00 =	\$	%
DBE Supplier	\$ x 0.60 =	\$	%
DBE Manufacturer	\$ x 1.00 =	\$	%
Total Amount DBE		\$	%
DBE Goal		\$	%

* If the total proposed DBE participation is less than the established DBE goal, Bidder/Proposer must provide written documentation of the good faith efforts as required by 49 CFR Part 26. All participation will be calculated in accordance with 49 CFR Part 26 and its applicable subparts.

Description of Good Faith Efforts

If you will not meet the Disadvantage Business Enterprises (DBE) goal set forth in the solicitation in addition to the information included on the Statement of Interested Subcontractors and Statement of Bid Proposals/Price Quotations submitted with your bid/proposal, please provide a narrative explanation of why you cannot meet the DBE goal and the steps taken to include DBEs in your proposal/bid. Describe specific actions (i.e. phone calls, etc.). Please provide copies of any solicitation notices sent, whether by email, fax or mail, and the amount of time given for response. Describe efforts to follow up initial communications. Identify the individuals from your organization who performed these activities. Attach additional pages as needed.

I hereby attest that I have exercised good faith efforts to meet the City's federally required Disadvantaged Business Enterprise goals for this Project. Despite such good faith efforts, I have not been able to meet the DBE goal for this Project.

Signature

Name and Title (typed or printed)

Name of Firm

CHECKLIST OF GOOD FAITH EFFORTS

A Bidder or Proposer that does not meet the City's DBE participation benchmark is required to demonstrate that it made "good faith efforts." Please indicate whether any of the following actions were taken.

- | | <u>Yes</u> | <u>No</u> | |
|-----|--------------------------|--------------------------|---|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | Attendance at a Pre-Bid Meeting, if any, scheduled by the City inform DBEs of subcontracting opportunities under a given solicitation; Advertisement for solicitation of DBEs in general circulation media, trade association publications, and minority-focus media, to provide notice of subcontracting opportunities. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Advertisement in general circulation media at least seven (7) days prior to Bid or proposal opening any and all Subcontractor opportunities. Proof of advertisement must be submitted with the Bid or Proposal. |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | Provided interested DBEs with timely, adequate information about the plans, specifications, and other such requirements of the Contract to facilitate their quotation and conducted follow up to initial solicitations. |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | Provided written notice to DBEs that their interest in subcontracting opportunities or furnishing supplies is solicited. Provided a contact log showing the name, address, email and contact number (phone or fax) used to contact the proposed certified subcontractors, nature of work requested for quote, date of contact, the name and title of the person making the effort, and the amount of the quoted price if one was obtained. |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | Efforts were made to divide the work for DBE subcontracting in areas likely to be successful and identify portions of work available to DBEs consistent with their availability. Include a list of divisions of work not subcontracted and the corresponding reasons for not including them. The ability or desire of a Bidder/Proposer to perform the work of a contract with its own organization does not relieve it of the responsibility to make good faith efforts on all scopes of work subject to subcontracting. |
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | Efforts were made to assist potential DBE subcontractors to meet bonding, insurance or other governmental contracting requirements. Where feasible, facilitating the leasing of supplies or equipment when they are of such a specialized nature that a DBE could not readily and economically obtain them in the marketplace. |
| 7. | <input type="checkbox"/> | <input type="checkbox"/> | Utilization of services of available minority community organizations, minority contractor groups and other organizations that provide assistance in the recruitment and placement of DBEs. |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | Communication with the GDOT or the City's DBE Office seeking assistance in identifying available DBEs. |
| 9. | <input type="checkbox"/> | <input type="checkbox"/> | Exploration of joint venture opportunities with DBEs. |
| 10. | <input type="checkbox"/> | <input type="checkbox"/> | Other actions (specify): _____ |

Please provide written explanation to any "no" answers listed above (by number):

This list is a guideline and by no means exhaustive. The City will review these efforts, along with other documents, towards assessing the Bidder/Proposer's efforts to meet the City's DBE benchmark. If you require assistance in identifying certified DBEs, please contact the Procurement Department or check the GDOT website.

Item P-620.3	Reflective Media – per pound
Item P-620.4	Thermoplastic Preformed Surface Sign – per each
Item P-620.5	Temporary Displaced Threshold – lump sum
Item P-620.6	Marking Removal – per square foot

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM D476	Standard Classification for Dry Pigmentary Titanium Dioxide Products
ASTM D968	Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
ASTM D1652	Standard Test Method for Epoxy Content of Epoxy Resins
ASTM D2074	Standard Test Method for Total, Primary, Secondary, and Tertiary Amine Values of Fatty Amines by Alternative Indicator Method
ASTM D2240	Standard Test Method for Rubber Property - Durometer Hardness
ASTM D7585	Standard Practice for Evaluating Retroreflective Pavement Markings Using Portable Hand-Operated Instruments
ASTM E303	Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
ASTM E1710	Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
ASTM E2302	Standard Test Method for Measurement of the Luminance Coefficient Under Diffuse Illumination of Pavement Marking Materials Using a Portable Reflectometer
ASTM G154	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials

Code of Federal Regulations (CFR)

40 CFR Part 60, Appendix A-7, Method 24	Determination of volatile matter content, water content, density, volume solids, and weight solids of surface coatings
29 CFR Part 1910.1200	Hazard Communication

Federal Specifications (FED SPEC)

FED SPEC TT-B-1325D	Beads (Glass Spheres) Retro-Reflective
FED SPEC TT-P-1952F	Paint, Traffic and Airfield Marking, Waterborne
FED STD 595	Colors used in Government Procurement

and accepted as satisfactory. Separate measurement shall be made for each cable or counterpoise wire installed in trench, duct bank or conduit. The measurement for this item shall not include additional quantities required for slack.

108-4.3 No separate payment will be made for ground rods.

108-4.4 Additional ground rods necessary to achieve the required impedance to ground reading shall be incidental to overall project.

BASIS OF PAYMENT

108-5.1 Payment will be made at the contract unit price for trenching, cable and bare counterpoise wire installed in trench (direct-buried), or cable and equipment ground installed in duct bank or conduit, in place by the Contractor and accepted by the RPR. This price shall be full compensation for furnishing all materials and for all preparation and installation of these materials, and for all labor, equipment, tools, and incidentals, including ground rods, ground connectors, removed cable, and trench marking tape, necessary to complete this item.

Payment will be made under:

Item L-108.1	No. 6 AWG, Solid, Bare Copper Counterpoise Wire, Installed In Trench with Duct, Including Grounding Rods, Including Connections/Terminations - per linear foot
Item L-108.2	No. 8 AWG, 5 kV, L-824, Type C Cable, Installed in Trench, Duct Bank or Conduit - per liner foot
Item L-108.3	Remove Abandoned Communication Line – per linear foot
Item L-108.4	No. 6, 600V, XHHW Cable, Installed in Trench, Duct Bank or Conduit - per liner foot

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

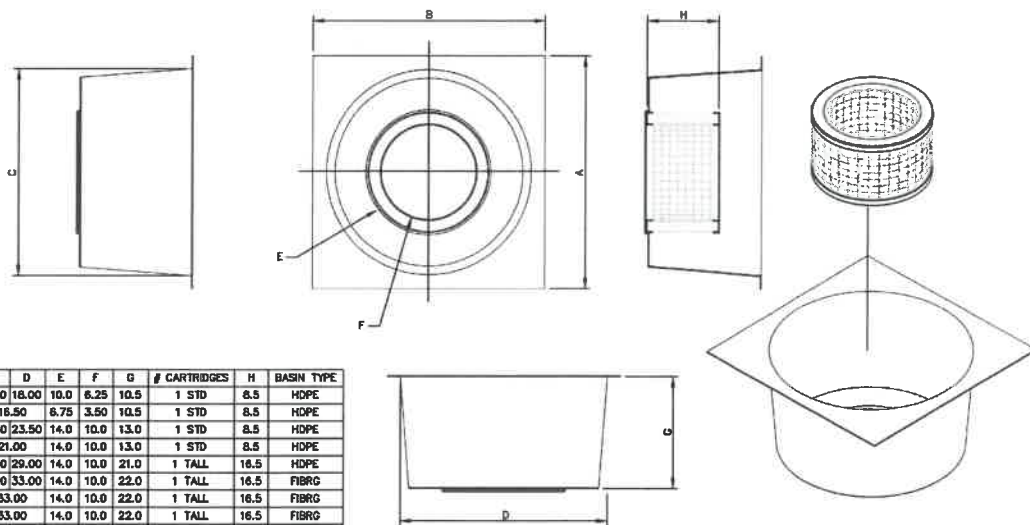
AC 150/5340-26	Maintenance of Airport Visual Aid Facilities
AC 150/5340-30	Design and Installation Details for Airport Visual Aids
AC 150/5345-7	Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits
AC 150/5345-26	Specification for L-823 Plug and Receptacle, Cable Connectors
AC 150/5345-53	Airport Lighting Equipment Certification Program

Commercial Item Description

A-A-59544A	Cable and Wire, Electrical (Power, Fixed Installation)
A-A-55809	Insulation Tape, Electrical, Pressure-Sensitive Adhesive, Plastic

NOTES:

1. ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE NOTED
2. UNITS ARE CONSTRUCTED FROM HIGH DENSITY POLYETHYLENE PLASTIC WITH UV INHIBITORS OR FIBERGLASS HAVING ISOPHTHALIC POLYESTER RESINS THAT ARE GEL COATED WITH ISOINPG
3. MEDIA CARTRIDGES CAN BE INTERCHANGED WITH GEOTRAP SERIES AS SITE CONDITIONS CHANGE.
4. LOW PROFILE FILTER ARE ALSO AVAILABLE FOR SHALLOW CATCH BASINS.
5. CUSTOM SIZES ARE AVAILABLE TO FIT MOST APPLICATIONS. PLEASE CALL A LOCAL CONTECH OFFICE NEAR YOU FOR DETAILS.
6. OPTIONAL TRASH GUARD AVAILABLE.
7. DUAL STAGE AND DUAL CAPACITY FILTERS ALSO AVAILABLE FOR LARGER DEBRIS CAPACITIES
8. * DIMENSIONS "A" AND "B" SUPPORT FLANGES CAN BE ADJUSTED TO SUITE VARYING SIZES OF CATCH BASINS
9. CUSTOM INSTALL BRACKETS ARE AVAILABLE AS NEEDED.



MODEL #	A*	B*	C	D	E	F	G	# CARTRIDGES	H	BASIN TYPE
TR1818	24.00	24.00	18.00	18.00	10.0	6.25	10.5	1 STD	8.5	HDPE
TR18RD	#24.00	#24.00	#18.50	18.75	3.50	10.5	10.5	1 STD	8.5	HDPE
TR24SR	27.00	27.00	23.50	23.50	14.0	10.0	13.0	1 STD	8.5	HDPE
TR24RD	#28.00	#28.00	#21.00	14.0	10.0	13.0	13.0	1 STD	8.5	HDPE
TR3030	34.00	34.00	22.00	29.00	14.0	10.0	21.0	1 TALL	16.5	HDPE
TR36SR	38.00	38.00	33.00	33.00	14.0	10.0	22.0	1 TALL	16.5	FIBRG
TR36RD	#38.00	#38.00	#33.00	14.0	10.0	22.0	22.0	1 TALL	16.5	FIBRG
TR42RD	#42.00	#42.00	#33.00	14.0	10.0	22.0	22.0	1 TALL	16.5	FIBRG
TR4848	48.00	48.00	42.00	42.00	24.0	18.75	22.0	1 TALL	16.5	FIBRO
TR48RD	#48.00	#48.00	#33.00	14.0	10.0	22.0	22.0	1 TALL	16.5	FIBRG

DETAIL BASED ON DROP INLET STYLE TRITON CATCHBASIN INSERTS BY CONTECH

TYPICAL WATER QUALITY INSERT
DETAIL
N.T.S.

WQ

AUGUSTA REGIONAL AIRPORT CONSTRUCT TAXIWAY G

1501 AVIATION WAY
AUGUSTA, GA 30906-9620

REVISION
ISSUED FOR BID
REV. 1: CHANGES TO
SHOULDER SECTION CALLOUT

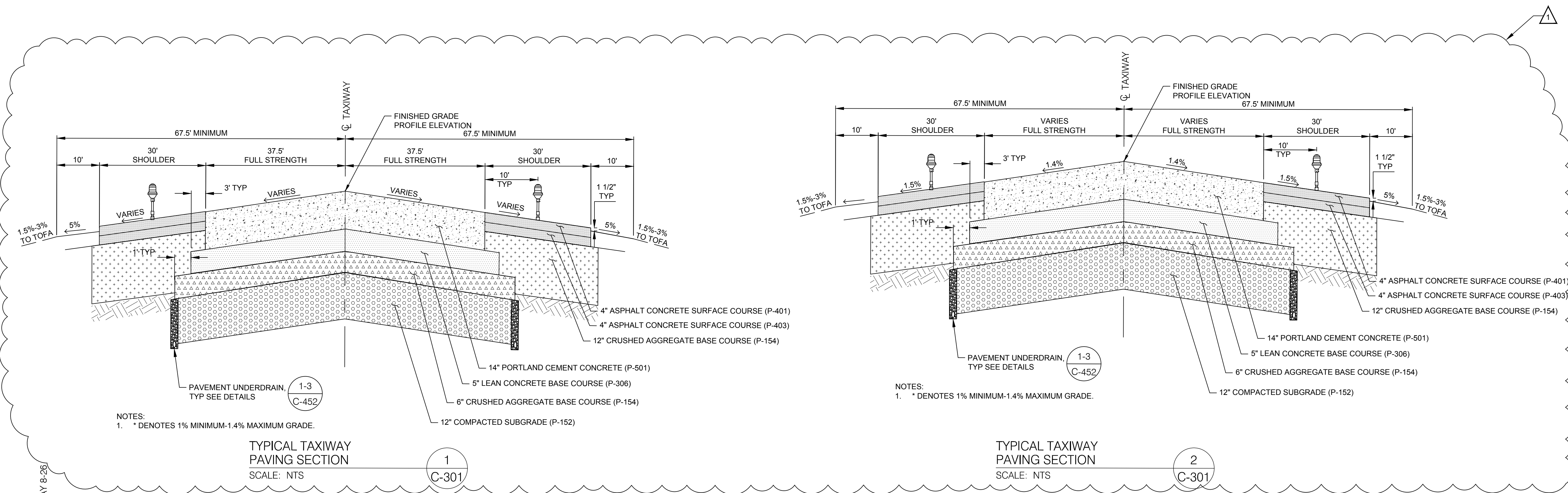
NOT FOR CONSTRUCTION

M&H NO: 0119700-170869.02
DATE: DECEMBER 6, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
DO NOT SCALE DRAWINGS

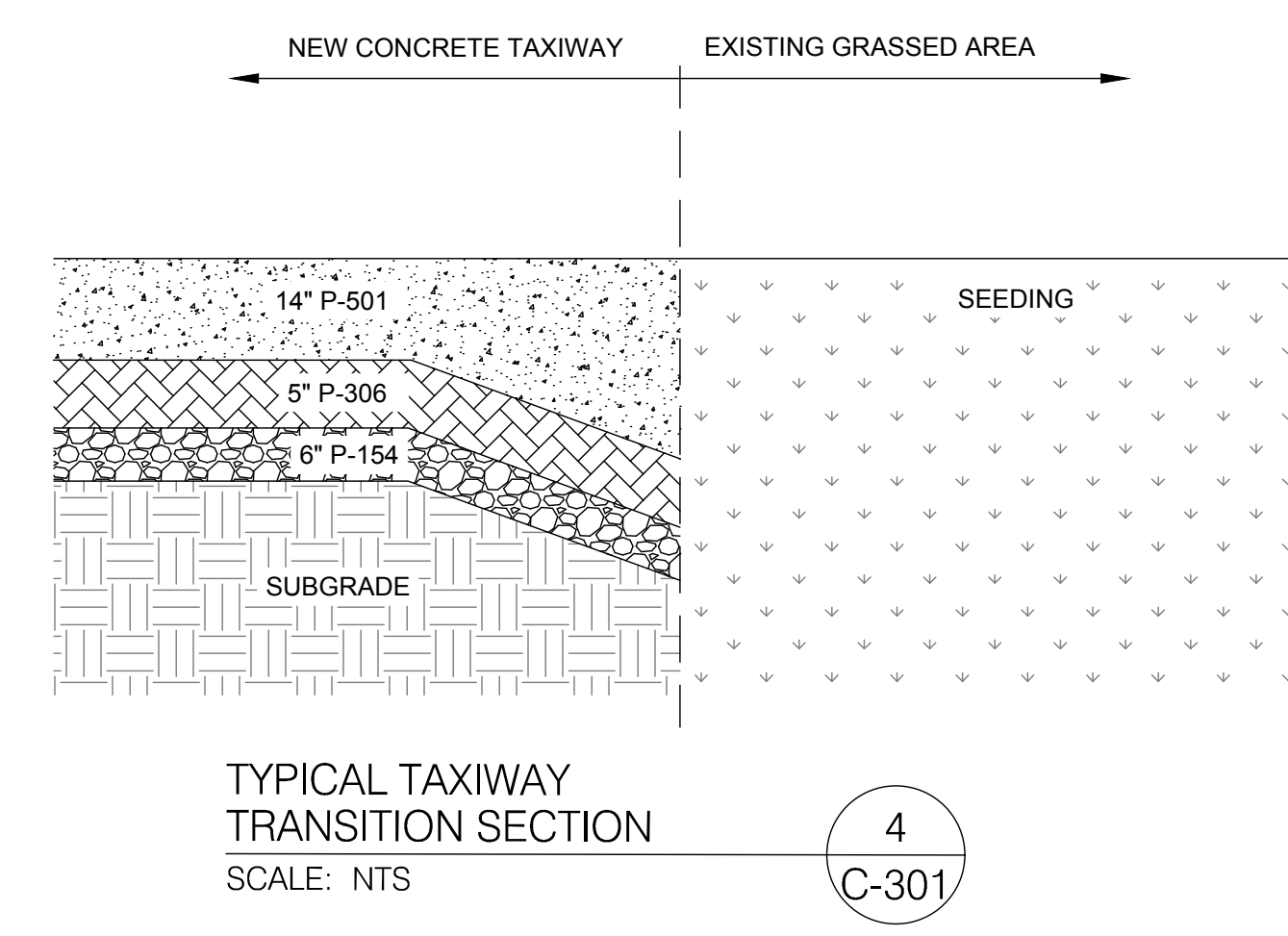
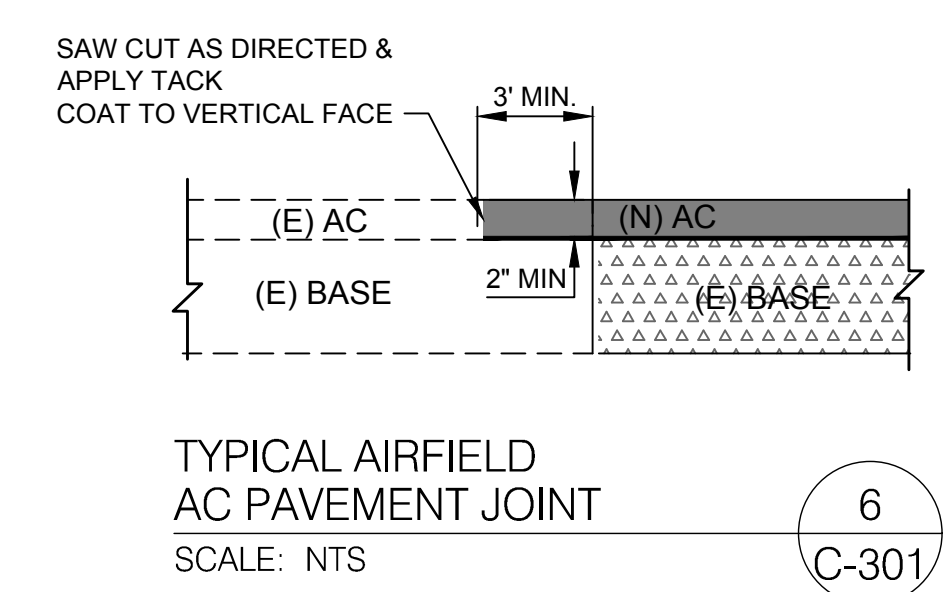
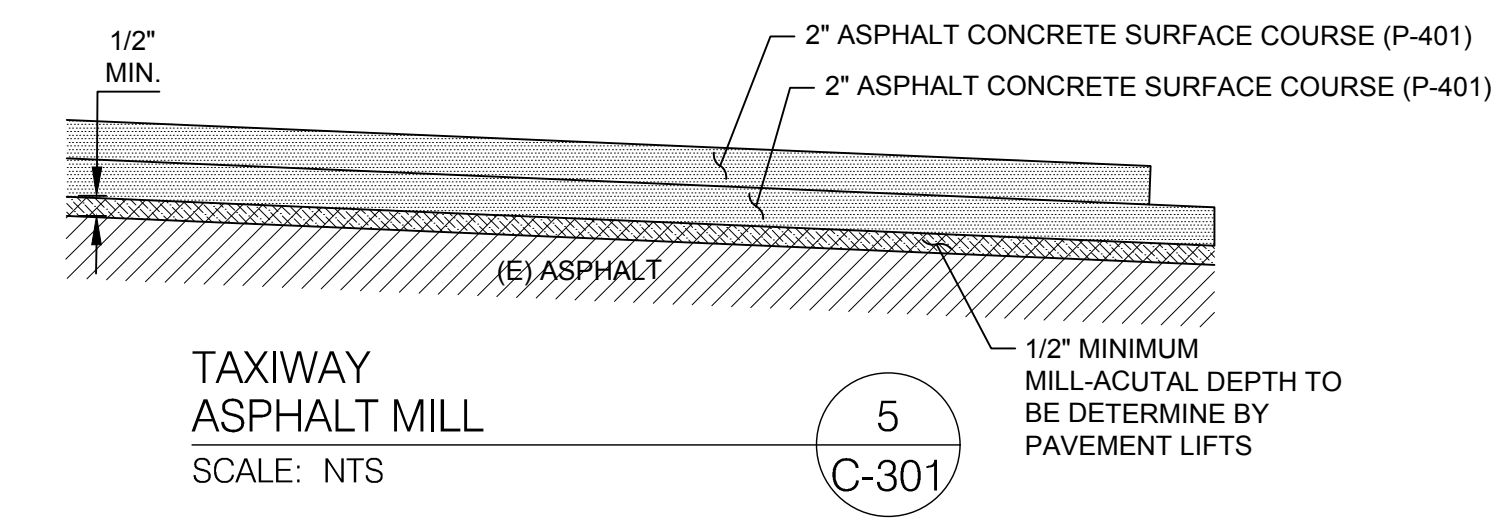
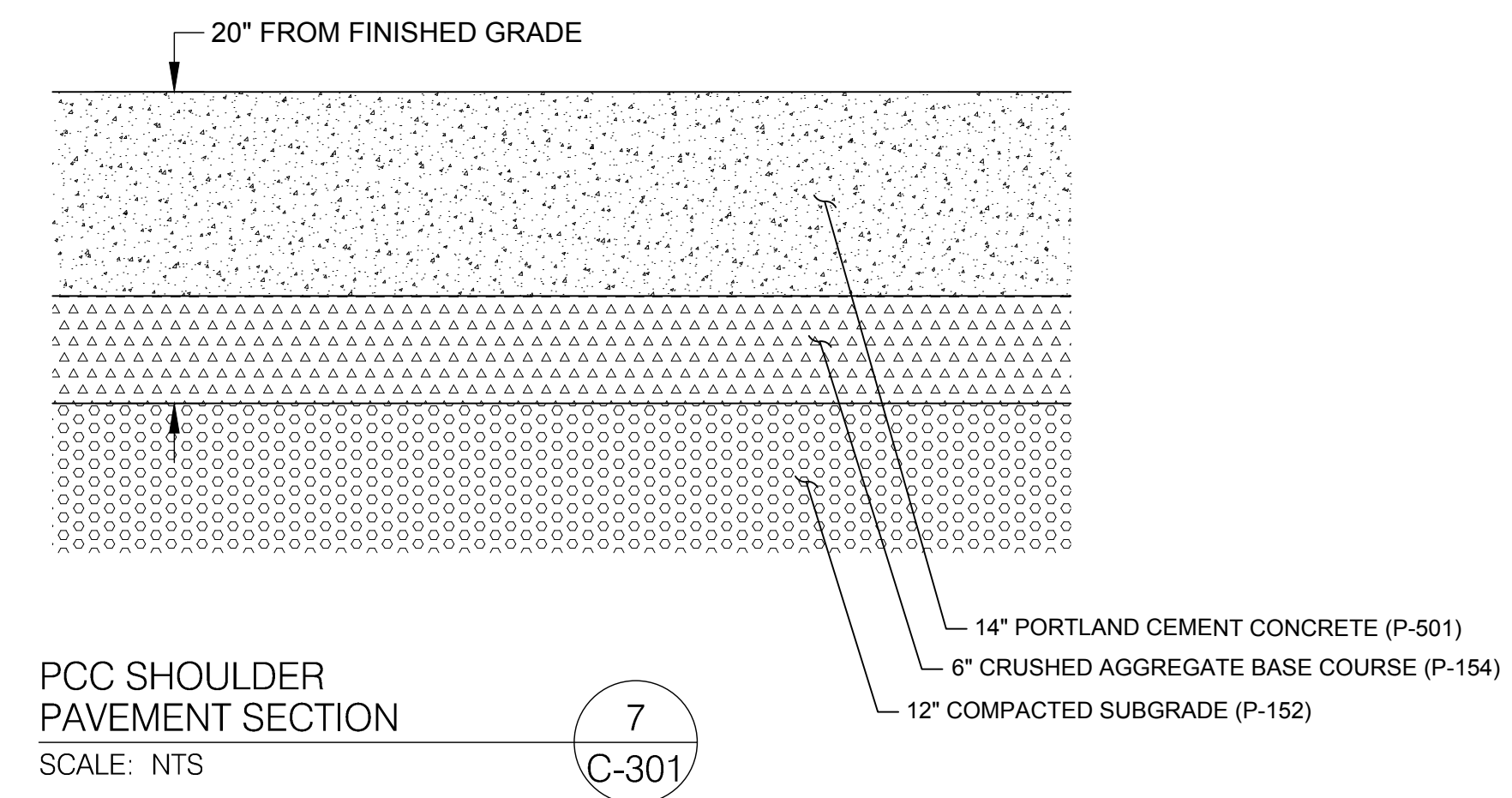
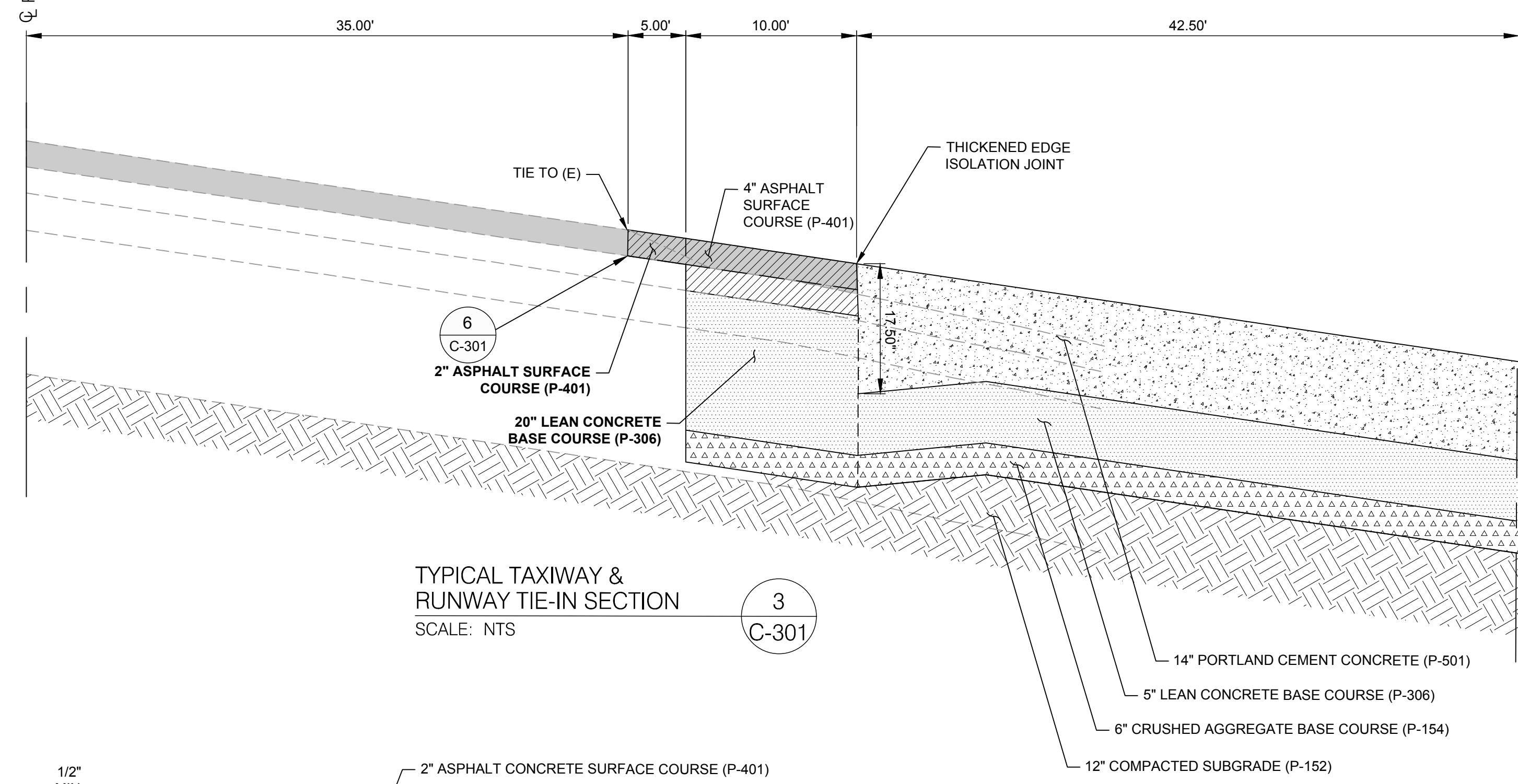
SHEET CONTENTS
TYPICAL SECTIONS

SHEET NO.

C-301



CL RUNWAY 8-26



X:\0119700\170869_02\TECH\DRAWINGS\C-301 TYPICAL SECTIONS.DWG 3/6/2023 2:35:30 PM

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorneys' fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

AUGUSTA REGIONAL AIRPORT CONSTRUCT TAXIWAY G

1501 AVIATION WAY
AUGUSTA, GA 30906-9620

REVISION
ISSUED FOR BID
REV. 1: REVISED QUANTITIES

NOT FOR CONSTRUCTION

M&H NO: 0119700-170869.02
DATE: DECEMBER 6, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
DO NOT SCALE DRAWINGS

SHEET CONTENTS
PROJECT QUANTITY
TABLES

SHEET NO.

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
AGS TAXIWAY G (BASE BID - ASPHALT SHOULDERS)			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation, Maintenance, and Removal of Silt Fence or Silt Sock	LF	11754
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	48
C-102.1c	Construct, Maintain, and Remove Construction Exit	EA	1
C-102.1d	Water Quality Monitoring and Sampling	EA	36
C-102.1e	Water Quality Inspections	EA	18
C-102.1f	Erosion Control Mobilization	LS	1
C-102.1g	Emergency Erosion Control Mobilization	LS	1
C-102.1h	Permanent Water Quality Inserts	EA	14
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	SY	2032
P-101.2	Cold Milling	SY	233
P-152.1	Unclassified Excavation, Dispose Off-Site	CY	3290
P-152.3	Subgrade Preparation	SY	16190
P-152.4	Unsuitable/Over Excavation	CY	5000
P-154.1	Uncrushed Aggregate Base Course (6")	CY	1607
P-154.2	Uncrushed Aggregate Base Course (12")	CY	1895
P-306.1	Lean Concrete Base Course (5")	SY	11170
P-401.1	Asphalt Concrete Surface Course (4")	TON	1085
P-403.1	Asphalt Concrete Base Course (4")	TON	1085
P-501.1	Portland Cement Concrete Pavement (14")	SY	10581
X-501.1	Portland Cement Concrete Curing Facility	LS	1
P-602.1	Emulsified Asphalt Prime Coat	Gal	482
P-603.1	Emulsified Asphalt Tack Coat	Gal	241
P-605.1	Joint Sealing Filler	LF	17577
P-620.1	Permanent Pavement Markings	SF	9393
P-620.2	Temporary Pavement Markings	SF	9393
P-620.3	Reflective Media	LBS	280
P-620.4	Thermoplastic Preformed Surface Sign	EA	2
P-620.6	Marking Removal	SF	5566
D-701.1	Concrete Sewer Pipe, 18-inch, Class V	LF	70
D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	LF	1165
D-705.2	Underdrain Clean-out	EA	8
D-751.2	Airfield Inlet with Aircraft Rated Grate	EA	1
D-751.3	Adjust Storm Manhole/Inlet to Grade	EA	1
D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	EA	1
T-901.1	Temporary Seeding	AC	3
T-901.2	Permanent Seeding	AC	3
T-901.3	Seeding, Staging Area	AC	1
T-905.1	Topsoiling (Obtain on Site or Removed from Stockpile)	CY	1173
T-905.2	Topsoiling, Staging Area	CY	2762
L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	LF	1696
L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable	LF	2789
L-108.3	Remove Abandoned Communication Line	LF	1957
L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	LF	364
L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	LF	367
L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	LF	2089
L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	LF	426
L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	EA	1
L-115.2	Electrical Junction Structure with Aircraft rated Blank Cover, without Drainage	EA	1
L-115.3	Electrical Junction Structure with Blank Cover, without Drainage	EA	1
L-125.1	In-Pavement LED Medium Intensity Runway Edge Light, L-852D (L)	EA	2
L-125.2	Base Mounted, LED Medium Intensity Taxiway Edge Light With Drainage	EA	25
L-125.3	Base Mounted, LED Medium Intensity Taxiway Edge Light Without Drainage	EA	11
L-125.4	Miscellaneous Lighting Equipment	LS	1
L-125.5	Remove Edge Light Fixture and/or Base Can	EA	5
L-125.6	Taxiway Guidance Sign, 1 Module, Size 2, Style 3, Mode 2	EA	2
L-125.7	Taxiway Guidance Sign, 2 Module, Size 2, Style 3, Mode 3	EA	2
L-125.9	Taxiway Guidance Sign, 4 Module, Size 2, Style 3, Mode 3	EA	1
L-125.10	Non-Lighted Taxiway End Sign	EA	1
L-125.11	Edge Light Number Tags	EA	36

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
AGS TAXIWAY G (BASE BID-CONCRETE SHOULDERS)			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation, Maintenance, and Removal of Silt Fence or Silt Sock	LF	11754
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	48
C-102.1c	Construct, Maintain, and Remove Construction Exit	EA	1
C-102.1d	Water Quality Monitoring and Sampling	EA	36
C-102.1e	Water Quality Inspections	EA	18
C-102.1f	Erosion Control Mobilization	LS	1
C-102.1g	Emergency Erosion Control Mobilization	LS	1
C-102.1h	Permanent Water Quality Inserts	EA	14
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	SY	1972
P-101.2	Cold Milling	SY	233
P-152.1	Unclassified Excavation, Remove Off-Site	CY	3290
P-152.3	Subgrade Preparation	SY	16190
P-152.4	Unsuitable/Over excavation	CY	5000
P-154.1	Uncrushed Aggregate Base Course (6")	CY	2698
P-306.1	Lean Concrete Base Course (5")	SY	11170
P-501.1	Portland Cement Concrete Pavement (14")	SY	15402
X-501.1	Portland Cement Concrete Curing Facility	LS	1
P-605.1	Joint Sealing Filler	LF	17577
P-620.1	Permanent Pavement Markings	SF	9393
P-620.2	Temporary Pavement Markings	SF	9393
P-620.3	Reflective Media	LBS	280
P-620.4	Thermoplastic Preformed Surface Sign	EA	2
P-620.6	Marking Removal	SF	5566
D-701.1	Concrete Sewer Pipe, 18-inch, Class V	LF	70
D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	LF	1165
D-705.2	Underdrain Clean-out	EA	8
D-751.2	Airfield Inlet with Aircraft Rated Grate	EA	1
D-751.3	Adjust Storm Manhole/Inlet to Grade	EA	1
D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	EA	1
T-901.1	Temporary Seeding	AC	3
T-901.2	Permanent Seeding	AC	3
T-901.3	Seeding, Staging Area	AC	1
T-905.1	Topsoiling (Obtain on Site or Removed from Stockpile)	CY	1173
T-905.2	Topsoiling, Staging Area	CY	2762
L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	LF	1696
L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable (Runway)	LF	2789
L-108.3	Remove Abandoned Communication Line	LF	1957
L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	LF	364
L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	LF	367
L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	LF	2089
L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	LF	426
L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	EA	1
L-115.2	Electrical Junction Structure with Aircraft rated Blank Cover, without Drainage	EA	1
L-115.3	Electrical Junction Structure with Blank Cover, without Drainage - per each	EA	1
L-125.1	In-Pavement LED Medium Intensity Runway Edge Light, L-852D (L)	EA	2
L-125.2	Base Mounted, LED Medium Intensity Taxiway Edge Light With Drainage	EA	25
L-125.3	Base Mounted, LED Medium Intensity Taxiway Edge Light Without Drainage	EA	11
L-125.4	Miscellaneous Lighting Equipment	LS	1
L-125.5	Remove Edge Light Fixture and/or Base Can	EA	5
L-125.6	Taxiway Guidance Sign, 1 Module, Size 2, Style 3, Mode 2	EA	2
L-125.7	Taxiway Guidance Sign, 2 Module, Size 2, Style 3, Mode 2	EA	2
L-125.9	Taxiway Guidance Sign, 4 Module, Size 2, Style 3, Mode 2	EA	1
L-125.10	Non-Lighted Taxiway End Sign	EA	1
L-125.11	Edge Light Number Tags	EA	36

NOTE: SUMMARY OF QUANTITIES TABLES ARE DESIGNED TO BE USED AS A REFERENCE IN THE FIELD. VALUES OUTLINED IN THE BID FORM TAKE SUPERIORITY OVER ANY VALUES SHOWN IN THE QUANTITY TABLES



These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses, and expenses, including attorneys' fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

AUGUSTA REGIONAL AIRPORT CONSTRUCT TAXIWAY G

1501 AVIATION WAY
AUGUSTA, GA 30906-9620

REVISION
ISSUED FOR BID
REV. 1: REVISED QUANTITIES

NOT FOR CONSTRUCTION

M&H NO.: 0119700-170869.02
DATE: DECEMBER 6, 2022
DESIGNED BY: EJS
DRAWN BY: NJH
CHECKED BY: DES
DO NOT SCALE DRAWINGS

SHEET CONTENTS
PROJECT QUANTITY TABLES

SHEET NO.

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
AGS TAXIWAY G (ALTERNATE 1 - ASPHALT SHOULDERS)			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation, Maintenance, and Removal of Silt Fence or Silt Sock	LF	11754
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	48
C-102.1c	Construct, Maintain, and Remove Construction Exit	EA	1
C-102.1d	Water Quality Monitoring and Sampling	EA	36
C-102.1e	Water Quality Inspections	EA	18
C-102.1f	Erosion Control Mobilization	LS	1
C-102.1g	Emergency Erosion Control Mobilization	LS	1
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	SY	488
P-101.3	Remove Existing 36" RCP	LF	102
P-152.2	Unclassified Excavation, Select Fill from On-Site Material	CY	2844
P-152.3	Subgrade Preparation	SY	37137
P-152.4	Unsuitable/Over excavation	CY	10000
P-154.1	Uncrushed Aggregate Base Course (6")	CY	3998
P-154.2	Uncrushed Aggregate Base Course (12")	CY	4383
P-306.1	Lean Concrete Base Course (5")	SY	23536
P-401.1	Asphalt Concrete Surface Course (4")	TON	2959
P-403.1	Asphalt Concrete Base Course (4")	TON	2959
P-501.1	Portland Cement Concrete Pavement (14")	SY	22182
X-501.1	Portland Cement Concrete Curing Facility	LS	1
P-602.1	Emulsified Asphalt Prime Coat	Gal	1315
P-603.1	Emulsified Asphalt Tack Coat	Gal	657
P-605.1	Joint Sealing Filler	LF	32861
P-620.1	Permanent Pavement Markings	SF	81652
P-620.2	Temporary Pavement Markings	SF	81652
P-620.3	Reflective Media	LBS	5532
P-620.4	Thermoplastic Preformed Surface Sign	EA	2
P-620.5	Temporary Displaced Threshold	LS	1
D-701.1	Concrete Sewer Pipe, 18-inch, Class V	LF	231
D-701.2	Concrete Sewer Pipe, 24-inch, Class V	LF	89
D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	LF	3281
D-705.2	Underdrain Clean-out	EA	14
D-751.1	Aircraft Ranted Manhole with Aircraft Rated Lid	EA	2
D-751.2	Airfield Inlet with Aircraft Rated Grate	EA	1
D-751.3	Adjust Storm Manhole/Inlet to Grade	EA	1
D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	EA	1
T-901.1	Temporary Seeding	AC	6
T-901.2	Permanent Seeding	AC	6
T-901.3	Seeding, Staging Area	AC	1
T-905.1	Topsoiling (Obtain on Site or Removed from Stockpile)	CY	2612
T-905.2	Topsoiling, Staging Area	CY	2762
L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	LF	5141
L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable (Runway)	LF	5565
L-108.3	No. 6, 600V, XHHW Cable	LF	525
L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	LF	354
L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	LF	372
L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	LF	4255
L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	LF	1046
L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	EA	2
L-115.3	Electrical Junction Structure with Blank Cover, without Drainage	EA	1
L-125.2	L-861T(L) Elevated, 14" HT, LED MITL on New L-867B Base Can with Drainage	EA	22
L-125.3	L-861T(L) Elevated, 14" HT, LED MITL on New L-867B Base Can without Drainage	EA	28
L-125.4	Miscellaneous Lighting Equipment	LS	1
L-125.5	Taxiway Guidance Sign, 1 Module, Size 2, Style 3, Mode 2	EA	2
L-125.7	Taxiway Guidance Sign, 2 Module, Size 2, Style 3, Mode 3	EA	1
L-125.8	Taxiway Guidance Sign, 3 Module, Size 2, Style 3, Mode 4	EA	1
L-125.9	Taxiway Guidance Sign, 4 Module, Size 2, Style 3, Mode 3	EA	4
L-125.10	Edge Light Number Tags	EA	50

SUMMARY OF QUANTITIES			
SPEC.	ITEM	UNIT	QUANTITY
AGS TAXIWAY G (ALTERNATE 1 - CONCRETE SHOULDERS)			
C-100.1	Contractor Quality Control Program	LS	1
C-102.1a	Installation, Maintenance, and Removal of Silt Fence or Silt Sock	LF	11754
C-102.1b	Construct, Maintain, and Remove Inlet Sediment Trap	EA	48
C-102.1c	Construct, Maintain, and Remove Construction Exit	EA	1
C-102.1d	Water Quality Monitoring and Sampling	EA	36
C-102.1e	Water Quality Inspections	EA	18
C-102.1f	Erosion Control Mobilization	LS	1
C-102.1g	Emergency Erosion Control Mobilization	LS	1
C-105.1	Mobilization, Cleanup, and Demobilization	LS	1
C-105.2	Airfield Safety and Traffic Control	LS	1
P-101.1	Asphaltic Concrete Pavement Removal, Full Depth, Off Site	SY	488
P-101.3	Remove Existing 36" RCP	LF	102
P-152.2	Unclassified Excavation, Select Fill from On-Site Material	CY	2844
P-152.3	Subgrade Preparation	SY	37137
P-152.4	Unsuitable/Over excavation	CY	10000
P-154.1	Uncrushed Aggregate Base Course (6")	CY	6189
P-306.1	Lean Concrete Base Course (5")	SY	23536
P-501.1	Portland Cement Concrete Pavement (14")	SY	35331
X-501.1	Portland Cement Concrete Curing Facility	LS	1
P-605.1	Joint Sealing Filler	LF	32861
P-620.1	Permanent Pavement Markings	SF	81652
P-620.2	Temporary Pavement Markings	SF	81652
P-620.3	Reflective Media	LBS	5532
P-620.4	Thermoplastic Preformed Surface Sign	EA	2
P-620.5	Temporary Displaced Threshold	LS	1
D-701.1	Concrete Sewer Pipe, 18-inch, Class V	LF	231
D-701.2	Concrete Sewer Pipe, 24-inch, Class V	LF	89
D-705.1	6-Inch Perforated Polyethylene Underdrain Pipe, Schedule 40, Complete	LF	3281
D-705.2	Underdrain Clean-out	EA	14
D-751.1	Aircraft Ranted Manhole with Aircraft Rated Lid	EA	2
D-751.2	Airfield Inlet with Aircraft Rated Grate	EA	1
D-751.3	Adjust Storm Manhole/Inlet to Grade	EA	1
D-751.4	Connect Storm Sewer Pipe to Existing Storm Structure	EA	1
T-901.1	Temporary Seeding	AC	6
T-901.2	Permanent Seeding	AC	6
T-901.3	Seeding, Staging Area	AC	1
T-905.1	Topsoiling (Obtain on Site or Removed from Stockpile)	CY	2612
T-905.2	Topsoiling, Staging Area	CY	2762
L-108.1	No. 6 AWG Counterpoise, Including Grounding Rods, Installed	LF	5141
L-108.2	No. 8 AWG, 5kV, L-824 Type C Cable (Runway)	LF	5565
L-108.4	No. 6, 600V, XHHW Cable	LF	525
L-110.1	Concrete Encased Electrical Duct Bank, 2W-2"	LF	354
L-110.2	Concrete Encased Electrical Duct Bank, 4W-4"	LF	372
L-110.3	Concrete Encased Conduit, 1W-2" Type II PVC	LF	4255
L-110.4	Non-Encased Conduit, 1W-2" Type II PVC	LF	1046
L-115.1	Aircraft Rated Manhole, 4'x4' with Spring Assisted Cover	EA	2
L-115.3	Electrical Junction Structure with Blank Cover, without Drainage	EA	1
L-125.2	L-861T(L) Elevated, 14" HT, LED MITL on New L-867B Base Can with Drainage	EA	22
L-125.3	L-861T(L) Elevated, 14" HT, LED MITL on New L-867B Base Can without Drainage	EA	28
L-125.4	Miscellaneous Lighting Equipment	LS	1
L-125.5	Taxiway Guidance Sign, 1 Module, Size 2, Style 3, Mode 2	EA	2
L-125.7	Taxiway Guidance Sign, 2 Module, Size 2, Style 3, Mode 2	EA	1
L-125.8	Taxiway Guidance Sign, 3 Module, Size 2, Style 3, Mode 2	EA	1
L-125.9	Taxiway Guidance Sign, 4 Module, Size 2, Style 3, Mode 2	EA	4
L-125.10	Edge Light Number Tags	EA	50

NOTE: SUMMARY OF QUANTITIES TABLES ARE DESIGNED TO BE USED AS A REFERENCE IN THE FIELD. VALUES OUTLINED IN THE BID FORM TAKE SUPERIORITY OVER ANY VALUES SHOWN IN THE QUANTITY TABLES

and accepted as satisfactory. Separate measurement shall be made for each cable or counterpoise wire installed in trench, duct bank or conduit. The measurement for this item shall not include additional quantities required for slack.

108-4.3 No separate payment will be made for ground rods.

108-4.4 Additional ground rods necessary to achieve the required impedance to ground reading shall be incidental to overall project.

BASIS OF PAYMENT

108-5.1 Payment will be made at the contract unit price for trenching, cable and bare counterpoise wire installed in trench (direct-buried), or cable and equipment ground installed in duct bank or conduit, in place by the Contractor and accepted by the RPR. This price shall be full compensation for furnishing all materials and for all preparation and installation of these materials, and for all labor, equipment, tools, and incidentals, including ground rods, ground connectors, removed cable, and trench marking tape, necessary to complete this item.

Payment will be made under:

Item L-108.1	No. 6 AWG, Solid, Bare Copper Counterpoise Wire, Installed In Trench with Duct, Including Grounding Rods, Including Connections/Terminations - per linear foot
Item L-108.2	No. 8 AWG, 5 kV, L-824, Type C Cable, Installed in Trench, Duct Bank or Conduit - per liner foot
Item L-108.3	Remove Abandoned Communication Line – per linear foot
Item L-108.4	No. 6, 600V, XHHW Cable, Installed in Trench, Duct Bank or Conduit - per liner foot

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5340-26	Maintenance of Airport Visual Aid Facilities
AC 150/5340-30	Design and Installation Details for Airport Visual Aids
AC 150/5345-7	Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits
AC 150/5345-26	Specification for L-823 Plug and Receptacle, Cable Connectors
AC 150/5345-53	Airport Lighting Equipment Certification Program

Commercial Item Description

A-A-59544A	Cable and Wire, Electrical (Power, Fixed Installation)
A-A-55809	Insulation Tape, Electrical, Pressure-Sensitive Adhesive, Plastic

Item P-620.3	Reflective Media – per pound
Item P-620.4	Thermoplastic Preformed Surface Sign – per each
Item P-620.5	Temporary Displaced Threshold – lump sum
Item P-620.6	Marking Removal – per square foot

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM D476	Standard Classification for Dry Pigmentary Titanium Dioxide Products
ASTM D968	Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
ASTM D1652	Standard Test Method for Epoxy Content of Epoxy Resins
ASTM D2074	Standard Test Method for Total, Primary, Secondary, and Tertiary Amine Values of Fatty Amines by Alternative Indicator Method
ASTM D2240	Standard Test Method for Rubber Property - Durometer Hardness
ASTM D7585	Standard Practice for Evaluating Retroreflective Pavement Markings Using Portable Hand-Operated Instruments
ASTM E303	Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
ASTM E1710	Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
ASTM E2302	Standard Test Method for Measurement of the Luminance Coefficient Under Diffuse Illumination of Pavement Marking Materials Using a Portable Reflectometer
ASTM G154	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials

Code of Federal Regulations (CFR)

40 CFR Part 60, Appendix A-7, Method 24
Determination of volatile matter content, water content, density, volume solids, and weight solids of surface coatings

29 CFR Part 1910.1200 Hazard Communication

Federal Specifications (FED SPEC)

FED SPEC TT-B-1325D	Beads (Glass Spheres) Retro-Reflective
FED SPEC TT-P-1952F	Paint, Traffic and Airfield Marking, Waterborne
FED STD 595	Colors used in Government Procurement