

**ADDENDUM NO. 2
ALAMOGORDO WHITE SANDS REGIONAL AIRPORT
MAY 29, 2018**

TO: All Planholders

**RE: Schedule I – Runway 4/22 Safety Area Grading (67+00 to 104+06)
Schedule II – Runway 4/22 Safety Area Grading (47+00 to 67+00)
AIP No. 3-35-0001-027-2018**

The following Addendum shall be incorporated into the Contract Documents for the above-referenced project and shall supersede all contrary and conflicting information, which are hereby supplemented or revised in certain particulars in the following:

I. CONTRACT DOCUMENTS

- A. PROPOSAL–** One Item Revision (P-620a on Schedule I). Addendum No. 1 page P-2 is removed and replaced with the attached page P-2.

II. SPECIFICATIONS

- A. ITEM P-620-3.5 –** Revised to include paragraph on two-part application process. Original page P-620-3 is removed and replaced with the attached page P-620-3.
- B. ITEM P-620-5.1 –**Specification Basis of Payment, Pay Item P-620a revised. Original page P-620-4 is removed and replaced with the attached page P-620-4.

III. CLARIFICATION

- A.** Question: Are there enough millings at the borrow site for the project?

Answer: Yes. The amount of millings at the borrow site is double the estimated amount required for the project.

- B.** Question: Is an Airport License required for the project?

Answer: Yes.

Instructions to Bidders 3 - Qualifications for Bidders (Page IB-1) requires "Evidence of appropriate licensing under the New Mexico Construction Industries Division (current edition) for the construction shall be submitted to the Sponsor with each bid for the appropriate classification of work."

Per the New Mexico Administrative Code (164.64.110.239), Title 14, Chapter 6, Part 6, 14.6.6.8.B.1 "A validly licensed person may bid and contract as the prime contractor of a project only if the major portion of the work, based on dollar amount, is authorized by the classification of the prime Contractor's license." Further, 14.6.6.9.D.1. GF-1 Airports. "Requires two years experience. Construct, alter and repair airports, including marking,

excavating, grading, surfacing and sub surfacing (dirt or bitumen and concrete), compacting and other work on surfaces to be used for aircraft traffic, landing, take-off and taxi."

Each Bidder shall acknowledge receipt of this Addendum No. 2, dated May 29, 2018, on Proposal page P-16 in the space provided.

END OF ADDENDUM NO. 2

ARMSTRONG CONSULTANTS, INC.



Julie Thiessen, P.E.
Airport Project Manager

SCHEDULE I – RUNWAY 4/22 SAFETY AREA GRADING (67+00 TO 104+06)

Item No.	Spec. No.	Description	Est. Qty.	Unit	Unit Price in Figures and in Writing	Total Price
1	Section 105	Mobilization	LS	LS	\$	\$
2	S-3	Reset Runway Lights	20	EA	\$	\$
3	S-6	Watering	Incidental		Incidental	
4	S-7	Bituminous Pavement Millings Shoulder Course (2 Inches Thick)	835	CY	\$	\$
5	P-152a	Embankment in Place	2,050	CY	\$	\$
6	P-152b	Shoulder Grading	42,214	SY	\$	\$
7	P-156	Temporary Air and Water Pollution, Soil Erosion, and Siltation Control	Incidental		Incidental	
8	P-602	Bituminous Prime Coat	4,510	GAL	\$	\$
9	P-620a	Runway and Taxiway Marking (Two Coat)	55,000	SF	\$	\$
10	P-620b	Reflective Media, Type I, Gradation A	3,355	LB	\$	\$
TOTAL BID AMOUNT – SCHEDULE I					\$	

The Contractor shall apply the paint in a two-part process. The temporary paint coat shall be applied as soon as possible after paving or asphalt maintenance. The temporary markings shall be applied at a rate of 30% to 50%. No glass beads are required for temporary markings. The final paint coat shall be applied 21 days following the temporary paint coat.

620-3.6 TEST STRIP. Prior to the full application of airfield markings, the Contractor shall produce a test strip in the presence of the Engineer. The test strip shall include the application of a minimum of 5 gallons of paint and application of 35 lbs of Type I/50 lbs of Type III glass beads. The test strip shall be used to establish thickness/darkness standard for all markings. The test strip shall cover no more than the maximum area prescribed in Table 1 (e.g., for 5 gallons of waterborne paint shall cover no more than 575 square feet).

TABLE 1.
APPLICATION RATES FOR PAINT AND GLASS BEADS
(See Note regarding Red and Pink Paint)

Paint Type	Paint Square feet per gallon, ft ² /gal	Glass Beads, Type I, Gradation A Pounds per gallon of paint-lb/gal
Waterborne Type I or II	115 ft ² /gal max	7 lb/gal min

Glass beads shall be distributed upon the marked areas at the locations shown on the plans to receive glass beads immediately after application of the paint. A dispenser shall be furnished that is properly designed for attachment to the marking machine and suitable for dispensing glass beads. Glass beads shall be applied at the rate shown in Table 1. Glass beads shall not be applied to black paint or green paint. Glass beads shall adhere to the cured paint or all marking operations shall cease until corrections are made. Different bead types shall not be mixed. Regular monitoring of glass bead embedment should be performed.

All emptied containers shall be returned to the paint storage area for checking by the Engineer. The containers shall not be removed from the airport or destroyed until authorized by the Engineer.

620-3.7 APPLICATION--PREFORMED THERMOPLASTIC AIRPORT PAVEMENT MARKINGS.

a. Asphalt and Portland cement. Not Used.

620-3.8 PROTECTION AND CLEANUP. After application of the markings, all markings shall be protected from damage until dry. All surfaces shall be protected from excess moisture and/or rain and from disfiguration by spatter, splashes, spillage, or drippings. The Contractor shall remove from the work area all debris, waste, loose or unadhered reflective media, and by-products generated by the surface preparation and application operations to the satisfaction of the Engineer. The Contractor shall dispose of these wastes in strict compliance with all applicable state, local, and Federal environmental statutes and regulations.

METHOD OF MEASUREMENT

620-4.1 The quantity of runway and taxiway markings to be paid for shall be the number of square feet of painting and the number of pounds of reflective media performed in accordance with the specifications and accepted by the Engineer.

BASIS OF PAYMENT

620-5.1 Payment shall be made at the respective contract price per square foot for runway and taxiway painting and price per pound for reflective media. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item P-620a	Runway and Taxiway Marking (Two Coat) - per square foot
Item P-620b	Reflective Media, Type I, Gradation A - per pound

TESTING REQUIREMENTS

ASTM C371	Standard Test Method for Wire-Cloth Sieve Analysis of Nonplastic Ceramic Powders
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D711	Standard Test Method for No-Pick-Up Time of Traffic Paint
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 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

MATERIAL REQUIREMENTS

ASTM D476	Standard Classification for Dry Pigmentary Titanium Dioxide Products
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



ARMSTRONG

PRE-BID SIGN-IN SHEET

Alamogordo White Sands Regional Airport
Alamogordo, New Mexico
Runway 4/22 Safety Area Grading
AIP No. 3-35-0001-027-2018
ACI No. 186486
May 24, 2018 at 2:00 p.m. MDT

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