



THE STATE  
of **ALASKA**  
GOVERNOR SEAN PARNELL

**Department of Transportation and  
Public Facilities**

CENTRAL REGION – DIVISION OF DESIGN & CONSTRUCTION  
CONTRACTS SECTION

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**Date:** April 30, 2014

**Project:** Kodiak Airport RSA Extension &  
Kodiak Airport Devils Creek Culvert  
Repair

**Project No.:** AIP 3-02-0158-017-2014/53587 &  
AIP 3-02-0158-01X-201X/57474

**Addendum No. FOUR**

TO ALL PLANHOLDERS:

The enclosed addendum amends the bidding documents for the above referenced Project.

Acknowledgment of this addendum is required on the Bid Proposal. Failure to do so may subject the bidder to disqualification.

Sincerely,

A handwritten signature in black ink, appearing to read "Sharon L. Smith".

Sharon L. Smith, P.E.  
Chief of Contracts

<b>ADDENDUM TO THE CONTRACT DOCUMENTS</b>	<b>Page Number</b> 1	<b>No. of Pages</b> 1
<b>Addendum No. Four</b>	<b>Date Addendum Issued: April 30, 2014</b>	
<b>Issuing Office</b> Joel G. St. Aubin, P.E., Director, Design & Construction Central Region PO Box 196900, Anchorage, AK 99519-6900 Phone: 269-0400 Fax: 269-0425	<b>Previous Addenda Issued</b> One, dated April 21, 2014 Two, dated April 28, 2014 Three dated April 29, 2014	
<b>Project:</b> Kodiak Airport RSA Extension & Kodiak Airport Devils Creek Culvert Repair <b>Project No.:</b> AIP 3-02-0158-017-2014/53587 & AIP 3-02-0158-01X-201X/57474	<b>Date and Hour of Bid Opening:</b> May 2, 2014 at 2:00 p.m., prevailing Anchorage time.	

**NOTICE TO BIDDERS:**

**Bidders must acknowledge receipt of this addendum prior to the hour and date set for bid opening by one of the following methods:**

- (a) By acknowledging receipt of this addendum on the bid submitted.
- (b) By telegram or telefacsimile which includes a reference to the project and addendum number.

The bid documents require acknowledgment individually of all addenda to the drawings and/or specifications. This is a mandatory requirement and any bid received without acknowledgment of receipt of addenda may be classified as not being a responsive bid. If, by virtue of this addendum it is desired to modify a bid already submitted, such modification may be made by telegram or telefacsimile provided such a telegram or telefacsimile makes reference to this addendum and is received prior to the opening hour and date specified above.

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The Contract Documents for the above project are amended as follows (All other terms and conditions remain unchanged):

**PART 4 - CONTRACT PROVISIONS AND SPECIFICATIONS**

- 1) **Item P-185 Armor Stone.** Remove pages 1 and 2 and replace with **Attachment No. 1.**

**END OF ADDENDUM**

**ITEM P-185 ARMOR STONE**

**DESCRIPTION**

**185-1.1** Furnish all plant, labor, equipment and materials and perform the work necessary to manufacture and place stone protection as shown on the plans or as directed by the Engineer.

**MATERIAL**

**185-2.1 GENERAL.** Conform to the following quality and gradation requirements. Submit a quarrying, blasting and processing plan to the Engineer for required materials. Do not place materials prior to acceptance.

Provide primary armor and filter or underlayer stone; stone shall not be elongated or tabular. The minimum dimension of each individual stone shall be at least one-third of the stone's maximum dimension. Provide stone that conforms to the specified size requirements after processing. Conduct loading, placement or stockpiling operations in a manner that eliminates breakage. Comply with the following requirements for armor stone

- a. **Primary Armor and Filter Stone.** Provide stone having a relatively uniform that falls within the limits shown in the following gradations, based on class:

**Primary Armor Stone - Class PA-12000**

<u>Stone Weight</u>	<u>Approximate Diameter</u>	<u>Allowable % Smaller by Stone Count</u>
15,000 lb.	65 inch	100%
12,000 lb.	60 inch	0-50%
9,000 lb.	55 inch	0%

- b. **Underlayer Stone.** Provide uniformly graded underlayer stone that falls within the limits shown in the following gradations, based on class:

**Underlayer Stone - Class U-700 lb.**

<u>Stone Weight</u>	<u>Approximate Diameter</u>	<u>Allowable % Smaller by Stone Count</u>
875-1,250 lb.	26-28 inch	100%
700 lb.	24-23 inch	0-50%
525-150 lb.	22-14 inch	0%

**CONSTRUCTION METHODS**

**185-3.1 General** Provide a level, compact area large enough to dump and sort at approved locations(s). Dump the loads specified in this area and assist the Engineer as needed to sort and measure the stones in the load to determine if the armor stone or underlayer stone is within specifications. Provide the equipment needed to assist in this sorting.

Place primary armor and filter or underlayer stones on prepared slopes within the limits shown on the plans. Construct a uniform and regular surface with slopes no steeper than those shown on the plans. Maintain the armor stone until final acceptance, and replace any displaced material to the design slopes, lines, and grades at the Contractor's expense.

Place materials in a manner that produces a well-keyed mass of stone, with each individual stone having three points of contact. Ensure that finished surfaces of all layers are free from pockets of single sized stone.

Placement of small stone in primary armor and filter or underlayer stone layers to choke the spaces between large stones or for leveling the surface is not permitted. Breaking of individual pieces in place by blasting or mechanical methods is not permitted. Place filter or underlayer stone to the full course thickness in one operation and in a manner that avoids displacing underlying materials. Placement by methods likely to cause segregation, such as end dumping, side dumping or pushing into position with earth-moving equipment, are not permitted. Obtain the desired distribution of various sizes of armor stones throughout the mass by selective loading and by controlled placement of successive loads during placement. Materials that do not meet the specified requirements for size, quality or distribution of sizes will not be allowed for use.

Orient each stone individually so that the long axis of the stone is perpendicular to the structure's sloped surface. Rearrange individual stones as required to the extent necessary to correct deficiencies and to provide a uniform, well-keyed slope.

Place each class of stone to the full thickness and depth shown on the drawings. No minus tolerance is permitted. A greater thickness is permitted provided the outside slopes present a uniform appearance with a minimum of pieces projecting outside the plane of the finished slope surface. A greater depth is permitted in the toe apron provided uniform appearance and finished depths are maintained.

Stone of a certain weight classification that is rejected because of cracks or seam defects, as described in the Quality Control subsection of this specification, may be used for a lower weight classification if other quality and shape requirements are met.

**185-3.2 CONSTRUCTION SEQUENCING** Schedule construction activities in general conformance with the following sequencing plan.

- a. Clearly delineate the limits of use of each type of stone, both in the field and on as-built drawings.
- b. Construct the embankment and slope protection in conformance with the plans and specifications.

**185-3.3 QUALITY CONTROL** Establish and maintain quality control for stone to assure compliance with contract requirements and to maintain records of its quality control for all operations, including but not limited to the following

- a. Produce stone of the size specified, verifying sizes by selected samples when requested by the Engineer.

Acceptability of stone quality is determined by visual inspection. The Engineer may reject materials not found to meet the specified requirements at any time during the performance of the contract, at the source or project site.

- a. Test stone material for weight, gradation, and shape to assure compliance with the specifications. Conduct tests at the production site before transporting materials to the project site. Place materials that do not meet the specified requirements in a separate area to assure they do not get mixed in with acceptable materials. Perform tests at uniform intervals throughout the project to meet testing frequency requirements.
- b. Before delivery of materials to the project site, meet with the Engineer at the production site and select stones that meet the required weight and shape. Set aside stones at the production site as