



ADDENDUM TO THE CONTRACT

for the

Auke Lake Sewer 2013 L.I.D. 96 West Mendenhall Valley Sewer Expansion

Contract No. E13-225

ADDENDUM NO.: FIVE

CURRENT DEADLINE FOR BIDS:
June 4, 2013

PREVIOUS ADDENDA: FOUR :

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: May 30, 2013

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at:
http://www.juneau.org/engineering_ftp/contracts/Contracts.php

PROJECT MANUAL:

- Item No. 1 SECTION 00310 – BID SCHEDULE, ***delete in its entirety*** and ***replace*** with the attached SECTION 00310 – BID SCHEDULE, labeled Addendum No. 5, dated May 30, 2013. Pay Item 2720.1 Painted Traffic Markings was ***added***.
- Item No. 2 SPECIAL PROVISIONS, SECTION 01025 – MEASUREMENT AND PAYMENT, PART 1 GENERAL, ***add*** the following pay item:
- 2.23.1 PAINTED TRAFFIC MARKINGS (Pay Item No. 2720.1) PRICE BASED ON LUMP SUM
- A. Measurement for payment of Traffic Markings will be based on the completion of the entire WORK as a Lump Sum Pay Unit, complete, all in accordance with the requirements of the Contract Documents, specifically the DOT Right of Way permit section 7.10.
 - B. WORK under this Pay Item includes all painted traffic markings and recessed pavement markers disturbed, destroyed or otherwise removed during the completion of other WORK shown on Drawing Sheet Nos. C1 through C4.
 - C. Payment for Traffic Markings will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2720.1, which payment will constitute full compensation for all WORK described in Section 02720 –Traffic Markings, as shown on the Drawings and as directed by the ENGINEER.

Item No. 3 SECTION 02720 – TRAFFIC MARKINGS, PART 2 – PRODUCTS, Article 2.1 - MATERIAL, **delete** paragraph A and **replace** with the following:

- A. White and yellow traffic marking paint shall be solvent based and contain low VOC.

Pigment Composition: Pigments shall be first quality paint grade pigments. The inert or filter pigments must be of a type and quality generally recognized as first quality paint grade products, and shall not contribute to settling of the paint in storage or be so hard as to cause excessive wear of the spray application equipment.

Vehicle or Resinous Binder Composition: The vehicle may be any combination of natural or synthetic resinous materials that are not prohibited per this specification. All resins used must be permanently capable of re-dissolving in the solvent combination used in the paint. Paint and binder combinations shall minimize build-up of the paint on the sides of tanks, paint lines, and clogging of spray equipment from un-dissolvable skins.

Solvent Base Traffic Marking Paint Requirements:

CHARACTERISTIC	MINIMUM	MAXIMUM	TEST METHOD
Viscosity @ 77°F, KU	75	90	ASTM D562
Weight per Gallon at 77°F, (25°C)	11.0	-	ASTM D1475
Fineness of Grind, Hegman	2	-	ASTM D1210
Drying Time for no-pick-up, Seconds	-	90	ASTM D711
Contrast Ratio @ 5 mils wet, White and Colors (Black)	0.92 (1.0)	-	ASTM D2805
Colors: Yellow, 33538 and White, 37925 or approved equals	Pass		FED-STD-595C
Volatile Organic Compounds (VOC), grams/liter (lbs./gallon)	-	150(1.25)	EPA 40 CFR Part 59, ASTM D3960
Total Solids, % by weight	70	-	ASTM D2697
Total Solids, % by Volume	43	-	ASTM D2369

Prohibited Materials: The Manufacturer must certify that the product does not contain mercury, lead, hexavalent chromium, halogenated solvents (such as Methylene Chloride), or any carcinogen, as defined in 29 CFR 1910. 1200

Water Resistance: Guaranteed water resistant when applied properly.

Weathering: Guaranteed against cracking and weathering under extreme conditions when applied properly.

Application Temperature: The manufacturer's recommended minimum application temperature (air, surface and material) shall be 40⁰ Fahrenheit or lower.

Item No. 4 SECTION 02720 – TRAFFIC MARKINGS, PART 2 – PRODUCTS, Article 2.1 - MATERIAL, ***add paragraph D and E:***

- D. Use reflectors for both raised and recessed pavement markers consisting of an acrylic plastic shell filled with tightly adherent potting compound. Use shells containing one or two glass-covered prismatic reflective faces as called for on the in accordance with DOT ROW permit 7-10 to reflect incidental light from a single or opposite directions.

1. Shell. Molded Methyl Methacrylate meeting ASTM D 788, Gr. 8.
2. Overall Dimensions. 4 x 2 x 3/8 inches.
3. Reflective Surface. Each reflective surface must have a minimum area of 3-1/4 in² and be located on a 30-degree angle from a horizontal plane.
4. Optical Requirements. Meet the following minimum optical requirements of the reflective faces for an observation angle of 0.2 degrees, with the incident light parallel to the base of the reflector:

Horizontal Entrance Angle	Specific Intensity*		
	White	Yellow	Red
0 degrees	3	1.8	0.75
20 degrees	1.2	0.72	0.30

*Candelas per footcandle of illumination at the reflector on a plane perpendicular to the incident light.

5. Adhesive. Install pavement markers with an epoxy adhesive recommended by the marker manufacturer and approved by the Engineer.
 6. Color. Match the color of the raised pavement markers to the color of the marking for which they supplement, substitute, or serve as a positioning guide.
 7. Filler. Use a potting compound filler selected for strength, resilience, and adhesion. Bond thin, smooth, un-tempered glass to the prismatic reflective faces to provide an extremely hard and durable abrasion resistant surface.
- E. At least 15 days prior to placement of traffic markings the contractor is required to submit documentation showing that the traffic marking paint and traffic markings supplied are in conformance with the project specifications.

Item No. 5 SECTION 02720 –TRAFFIC MARKINGS, PART 3 – EXECUTION, Article 3.1 - GENERAL, **add** paragraph H:

H. Raised and Recessed Pavement Markers shall be installed per the manufacturer's instructions.

Cut or dado the finished pavement surface with a concrete saw to produce a slot with dimensions as shown on the DOT Standard Drawing for Recessed Pavement Markers or as recommended by the manufacturer. Clean and dry the slots using compressed air. Install a reflective marker of the color indicated with an epoxy adhesive recommended by the marker manufacturer.

By: 
Jennifer Mannix,
Contract Administrator

Total number of pages contained within this Addendum: 5

SECTION 00310 - BID SCHEDULE

PAY ITEM NO.	PAY ITEM DESCRIPTION	PAY UNIT	APPROX. QUANTITY	UNIT PRICE		AMOUNT	
				DOLLARS	CENTS	DOLLARS	CENTS
1505.1	Mobilization	Lump Sum	All Req'd	Lump	Sum		
1570.1	Erosion and Sediment Control	Lump Sum	All Req'd	Lump	Sum		
2201.1	Clearing and Grubbing	Lump Sum	All Req'd	Lump	Sum		
2202.1	6" Minus Shot Rock Borrow	CY	325				
2202.2	Sideslopes and Ditch Grading	Lump Sum	All Req'd	Lump	Sum		
2202.4	Mining Area Restoration and Road Cleaning Guarantee	Contingent Sum	All Req'd	Contingent	Sum	\$5,000	00
2203.1	Trenching	CY	1,300				
2203.2	Additional Trenching	LF	640				
2203.3	Imported Backfill	CY	260				
2203.4	Sheeting, Shoring and Bracing	Lump Sum	All Req'd	Lump	Sum		
2204.1	Base Course Grading D-1	CY	110				
2401.1	Force Main Sewer Pipe - 1.5-Inch HDPE	LF	237				
2401.2	Force Main Sewer Pipe - 2-Inch HDPE	LF	642				
2401.3	Force Main Sewer Pipe - 3-Inch HDPE	LF	1,261				
2401.4	Service Laterals, HDPE Force Main	Each	15				
2401.5	Flush Port	Each	2				
2402.1	Force Main Connection, Vent Manhole	Each	1				
2501.1	18-Inch Pipe Culvert	LF	45				
2501.2	24-Inch Pipe Culvert	LF	7				
2604.1	Air Release Valves	Each	2				
2605.1	2-Inch Water Service	Each	1				
2607.1	Pipe Insulation	Board	3				
2702.1	Construction Surveying	Lump Sum	All Req'd	Lump	Sum		
2702.2	Remove and Reset Monuments	Each	1				
2710.1	Seeding, Hydraulic Method, Type III	SU	2				
2716.1	Remove and Dispose Culvert Pipe	Lump Sum	All Req'd	Lump	Sum		
2720.1	Painted Traffic Markings	Lump Sum	All Req'd	Lump	Sum		
2801.1	A.C. Pavement, Type II-A, Class B	Ton	194				
2806.1	Remove Existing Asphalt Surfacing	SY	181				
3303.1	Curb and Gutter, Type I	LF	40				
3304.1	Removal of Curb and Gutter	LF	40				

COMPANY NAME: _____

TOTAL BID \$ _____