

ADDENDUM NO. 2

PROJECT NAME: FY 2015 ASPHALT OVERLAY TASK ORDER CONTRACT PACKAGE 4

DATE: 10/21/2014

ADDENDUM NO.2

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

Formal Invitation for Bid and Contract:

1. General Conditions:

- a. Section 1.2.4 of the General Conditions for the City of San Antonio Construction Contracts is deleted and replaced in its entirety with the following:**

1.2.4 The contract shall commence upon the issuance of the first task order by the City of San Antonio. No Work shall commence any earlier than the issuance date of the first task order and no Work shall be performed by Contractor or any Subcontractor prior to issuance of the first task order Any work commenced prior to Contractor receiving the first task order is performed at Contractor's risk.

- b. Section 11.3.1.1 of the General Conditions for the City of San Antonio Construction Contracts is deleted and replaced in its entirety with the following:**

11.3.1.1 PERFORMANCE BOND. A good and sufficient bond in an amount equal to one hundred percent (100%) of the total Contract Sum or Individual Task Order Amount, guaranteeing the full and faithful execution of the Work and performance of the Contract in accordance with Plans, Specifications and all other Contract Documents, including any extensions thereof, for the protection of Owner. This bond shall also provide for the repair and maintenance of all defects due to faulty materials and workmanship that appear within a period of one (1) year from the date of final Completion or acceptance of the Work by the Owner or lesser or longer periods as may be otherwise designated in the Contract Documents

c. Section 11.3.1.2 of the General Conditions for the City of San Antonio Construction Contracts is deleted and replaced in its entirety with the following:

11.3.1.2 PAYMENT BOND. A good and sufficient bond in an amount equal to 100% of the total Contract Sum or Individual Task Order Amount, guaranteeing the full and prompt payment of all claimants supplying labor or materials in the prosecution of the Work provided for in the Contract, and for the use and protection of each claimant.

d. Section 11.3.2 of the General Conditions for the City of San Antonio Construction Contracts is deleted and replaced in its entirety with the following:

11.3.2 If the total Contract Sum or Individual Task Order Amount, is greater than \$100,000, Performance and Payment Bonds equaling one hundred percent (100%) of the total Contract Sum or Individual Task Order Amount are mandatory and shall be provided by Contractor. If the total Contract Sum or Individual Task Order Amount is greater than \$25,000 but less than or equal to \$100,000, only a Payment Bond equaling One hundred percent (100%) of the total Contract Sum or Individual Task Order Amount is mandatory; provided, however, that Contractor also may elect to furnish a Performance Bond in the same amount if Contractor so chooses. If the total Contract Sum or Individual Task Order Amount is less than or equal to \$25,000, Contractor may elect not to provide Performance and Payment Bonds; provided that in such event, no money will be paid by Owner to Contractor until Final Completion of all Work. If Contractor elects to provide Performance and Payment Bonds, the Contract Sum or Individual Task Order Amount shall be payable to Contractor through progress payments in accordance with these General Conditions.

- 2. Substitute and utilize the revised “025 Unit Pricing Form” attached.**
- 3. Delete and Replace Special Provision 205 with the attached.**
- 4. The Following information from the pre-submittal conference held on 10/16/14:**

Q1: How will excavation be paid for when Gapping Rock is needed?

A1: Excavation for Gapping Rock is considered subsidiary to the Gapping Rock bid item. A separate bid item for Excavation will not be added.

Q2: Will large project signs be required?

A2: No. Large project signs will not be required.

Q3: Will AT&T allow contractor to adjust manholes?

A3: Yes

Q4: When do you anticipate starting contracts?

A4: There is not a set in stone date when this contract will begin. After this contract is awarded by council to the lowest responsive bidder, the City will issue a task order and that's when the contract days will start.

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: FY 2015 Asphalt Overlay Task Order Contract Package 4 - Revised 10/21/14
PROJECT NO. 23-01403-03-05-01

ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
			The City only will accept bid pricing to the hundredths. Any pricing extended out to three decimal points will be truncated to two decimal points in the City's favor.					
103.1			REMOVE CONCRETE CURB	LF	5,000			
103.3			REMOVE SIDEWALKS AND DRIVEWAYS	SF	30,000			
203.0			TACK COAT	GAL	6,000			
205.4A			HOT MIX ASPHALTIC PAVEMENT TYPE D (2" THICK) (GTR MODIFIED)	TON	8,000			
205.4B			HOT MIX ASPHALTIC PAVEMENT TYPE D (GTR MODIFIED) (LEVEL-UP)	TON	625			
205.4C			HOT MIX ASPHALTIC PAVEMENT TYPE D (2" THICK)	TON	6,505			
205.4D			HOT MIX ASPHALTIC PAVEMENT TYPE D (LEVEL-UP)	TON	625			
208.1			SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPH. PVMT (2")	SY	52,520			
209.1			BUS STOP CONCRETE PAVEMENT (10" DEPTH)	SY	2,800			
230.3			REPLACING BASE & PVMT WITH TYPE B PVMT (6" COMPACTED DEPTH)	TON	12,000			
230.3			REPLACING BASE & PVMT WITH TYPE B PVMT (8" COMPACTED DEPTH)	TON	1,000			
230.3			REPLACING BASE & PVMT WITH TYPE B PVMT (12" COMPACTED DEPTH)	TON	920			
240.4			WARM MIX ASPHALTIC CONCRETE, TYPE D (2" THICK)	TON	1,125			
241			EMULSION AGGREGATE SLURRY SEAL MIX	SY	4,500			
250			SEAL COAT	SY	120,000			
340			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" THICK) (PG 76-22) (CLASS "A" TRAP ROCK)	TON	2,100			
438			CLEANING EXISTING JOINTS	LF	800			
454			HEADER TYPE EXPANSION JOINT SEALANT	LF	1,200			
500			CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER	LF	5,500			
502.1			CONCRETE SIDEWALKS	SY	4,500			
502.1A			CURB RAMPS	EA	250			
503.1			PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	1,500			
512.1			ADJUSTING EXISTING MANHOLES (STORM SEWER)	EA	24			
512.1B			ADJUSTING EXISTING MANHOLES (AT&T)	EA	24			
515.1			TOPSOIL	CY	800			
516.1			SODDING	SY	3,000			
531.3			R1-1 STOP* (30") (HIGH DENSITY)	EA	30			
533-A			ELIM EXIST PVMT MRK AND RAISED MARKERS (4")	LF	1,100			
533-B			ELIM EXIST PVMT MRK AND RAISED MARKERS (8")	LF	500			
533-C			ELIM EXIST PVMT MRK AND RAISED MARKERS (12")	LF	550			
533-D			ELIM EXIST PVMT MRK AND RAISED MARKERS (24")	LF	900			

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: FY 2015 Asphalt Overlay Task Order Contract Package 4 - Revised 10/21/14
PROJECT NO. 23-01403-03-05-01

ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
533-E			ELIM EXIST PVMT MRK AND RAISED MARKERS (SYMBOL)	EA	34			
533-G			ELIM EXIST PVMT MRK AND RAISED MARKERS (WORD)	EA	29			
533-H			ELIM EXIST PVMT MRK AND RAISED MARKERS (RR-XING)	EA	30			
535.1			4" WIDE YELLOW LINE	LF	40,000			
535.2			4" WIDE WHITE LINE	LF	7,700			
535.4			8" SOLID WHITE LINE	LF	3,500			
535.5			12" WIDE WHITE LINE	LF	600			
535.7			24" WIDE WHITE LINE	LF	3,300			
535.12			WORD "ONLY"	EA	18			
535.14			RAILROAD CROSSING SYMBOL	EA	7			
535.16			STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	8			
535.17			BICYCLE RIDER SYMBOL	EA	12			
535.22			WHITE SHARROW (BIKE SHARED LANE)	EA	20			
535.23			WHITE ARROW (LEFT/RIGHT/STRAIGHT)	EA	82			
537.1			TRAFFIC BUTTON (TYPE W)	EA	300			
537.2			TRAFFIC BUTTON (TYPE Y)	EA	300			
537.6			PAVEMENT MARKER (TYPE I-C)	EA	2,800			
537.8			PAVEMENT MARKER (TYPE II A-A)	EA	2,200			
537.9			PAVEMENT MARKER (TYPE II C-R)	EA	220			
556.1			CAST IN PLACE DETECTABLE WARNING SURFACE TILES	EA	100			
624.2			GROUND BOXES TYPE B (122322)	EA	10			
712			JOINT AND CRACK SEALING	LB	13,000			
799			SPEED HUMP, TYPE II, MODULAR RUBBER CUSHIONS	EA	38			
3254			COLD IN-PLACE RECYCLING OF ASPHALT CONCRETE PAVEMENT	TON	650			
SUP 1			DOOR HANGERS	LS	1			
SUP 2			POLICE OFFICER	HR	900			
SUP 3			RAILROAD INSURANCE AND PERMIT	LS	1			
SUP 4			LAPTOP AND INTERNET ACCESS	LS	1			
SUP 5			TCI AT WORK P ROJECT SIGN	EA	32			
SUP 6			PORTABLE CHANGEABLE MESSAGE SIGN (ELECTRONIC MESSAGE BOARD)	MO	12			
SUP 7			ADDITIONAL MOBILIZATION	EA	10			
SUP 8			GAPPING ROCK (3"-5")	TON	150			
						Total CoSA Bid Amount:		

CITY OF SAN ANTONIO
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PROJECT NO. 23-01403-03-05-01

ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
SAWS WATER BID ITEMS								
826			VALVE BOX ADJUSTMENT (SAWS)	EA	300			
826A			VALVE BOX LOCATE AND ADJUSTMENT (SAWS)	EA	16			
Subtotal SAWS Water Bid Amount:								
SAWS SANITARY SEWER BID ITEMS								
851			ADJUSTING EXISTING MANHOLES (SAWS)	EA	160			
851A			LOCATING AND ADJUSTING EXISTING MANHOLES (SAWS)	EA	18			
Subtotal SAWS Sanitary Sewer Bid Amount:								
Total SAWS Bid Amount:								
Total (CoSA + SAWS) Bid Amount:								

In consideration of submitted bids, bidders are required and shall fully complete each unit bid price line on the 025 unit pricing form contained herein. Any unit bid price line left incomplete or determined by the City to be under priced may result in a submitted bid being deemed non-responsive. Bidders agree that the unit bid prices submitted on said 025 form, will be held throughout the duration of this indefinite delivery contract.

_____ certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____ Acknowledged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

**SPECIAL PROVISION TO ITEM 205
REGULAR TYPE D & GROUND RECYCLED TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER**

Revised: October 7, 2014

Delete:

Section 205.5 Measurement in its entirety

Section 205.6 Payment 1st paragraph

Section 205.7 Bid Item in its entirety

Modify the following sections for placement of Ground Recycled Tire Rubber (GTR) Modified Asphalt Binder only:

Description. This work shall consist of constructing Hot Mix Asphalt (HMAC) mixtures containing Ground Recycled Tire Rubber (GTR) modified asphalt binder. Work shall be according to City of San Antonio (COSA) Standard Specifications, except as modified herein.

Materials. Binder materials shall be according to COSA Standard Specifications, except as modified herein.

- (A) Bituminous Material. The base asphalt binder shall be performance-graded (PG) binder meeting or exceeding PG 64-22.
- (B) Ground Recycled Tire Rubber. The GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. Heavy equipment tires, uncured or de-vulcanized rubber will not be permitted. The GTR shall not exceed 2 mm (1/16 in.) in any dimension and shall contain no free metal particles or other foreign contaminating materials. Detection of free metal particles shall be determined by thoroughly passing a magnet through a 50 gram sample. Metal embedded in rubber particles will be permitted.

The GTR shall be stored in a dry location protected from the rain. The GTR shall have a maximum of 0.75% moisture by weight and shall be free flowing. When the GTR is combined with the asphalt cement, the moisture content of the GTR shall not cause foaming of the blend.

When tested in accordance to AASHTO T-27, *Sieve Analysis of Fine and Coarse Aggregates* a 50 gram sample of the GTR shall conform to the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>
2.36 mm (No. 8)	100
1.18 mm (No. 16)	98 ± 2
600 µm (No. 30)	95 ± 5
300 µm (No. 50)	> 20

A mineral powder (such as talc) meeting AASHTO M17, *Mineral Filler for Bituminous Paving Mixtures*, requirements may be added, up to a maximum of 4% by weight of GTR particles, to reduce sticking and caking of the GTR particles.

GTR shall have a specific gravity of 1.150 ± 0.050 when tested in accordance with ASTM 0-181 7, *Standard Test Method for Rubber Chemicals-Density*.

The GTR may be provided in bulk or in whole plastic containers. Plastic containers shall be made from low density polyethylene having a melting point less than 240° F. The manufacturer shall ship along with the GTR, certificates of compliance which certify that all requirements of this specification are complied with for each production lot number or shipment.

- (C) Polymer Additions. With approval of the Engineer, compatible polymers may be added to the GTR or to the asphalt-rubber blend during the process of blending and reaction of the asphalt binder with the GTR. The additional costs for the polymer additions shall be borne by the asphalt binder Supplier or the Contractor. The asphalt binder Supplier or the Contractor shall provide material product information along with usage rates for approval.

Preparation of GTR Modified Asphalt Binder. The GTR shall be blended with the PGgraded base asphalt binder, forming a consistent, homogeneous blend, using the Terminal Blend method, where the GTR is blended and reacted with the asphalt binder at the asphalt production facility. The asphalt-rubber blend shall consist of a minimum of 10% GTR (by dry unit weight of asphalt binder).

(A) Blending Requirements

- (1) A separate agitated shipping / storage tank, with continuous mixing and recirculation of the asphalt-rubber blend, shall be required to react the GTR with the asphalt binder and to maintain the homogeneous blend of asphalt binder and GTR. This tank shall be heated and capable of maintaining the temperature of the homogeneous blend of asphalt binder and GTR at 325°F to 375°F (163°C to 191°C). The GTR shall be reacted with the asphalt binder for a minimum of 6 hours at a temperature of 325°F to 375°F.
- (2) Terminal blended GTR asphalt binder may be stored at 300°F to 350°F with continuous mixing and/or recirculation, to maintain the homogeneous blend. Full Specification Compliance testing shall be repeated *every* 30 days on previously certified material held in storage.
- (3) A dedicated storage tank for "terminal blended GTR asphalt binder" shall be provided at the HMA plant. This tank must be capable of providing continuous mixing and/or recirculation of the GTR asphalt binder. This tank shall be heated and

capable of maintaining the temperature of the homogeneous blend of asphalt binder and GTR at 300°F to 350°F. The maximum storage time of the GTR asphalt binder at the HMAC plant shall be 3 days maximum, unless approved by the Engineer.

- (B) Asphalt-rubber Blend Characteristics. Asphalt-rubber blend must be homogeneous, but may contain visible particles of tire rubber.

GTR Modified Binder Compliance Testing. When the asphalt binder and GTR *have* reacted and form a homogeneous blend, test samples shall be obtained and submitted for testing. COS A personnel may also collect samples at any time. The GTR asphalt binder shall meet the requirements shown in Table 1.

Table 1. Requirements for GTR Asphalt Binder		
Test	Value	Test Method
Flash Point, Min, "C	230	T 48
Viscosity, Max, 3.0 Pa· s, temperature, "C	135	T 316
SofteninQ Point, ° F, min.	135	T 53
Elastic Recovery@7rF, (25"C), 100mm elongation, 5cm/min., cut immediately, % min.	65	ASTM D6084 Procedure A

- (A) The supplier of the GTR asphalt binder shall certify and provide the following documentation:
 - (1) Certificate of Analysis with the accompanying Producer's Sequence Number of the base asphalt binder.
 - (2) The composition of the GTR.
 - (3) The material product information and usage rates for any polymer additions, and
 - (4) The characteristics and test results of the final GTR asphalt binder.
- (B) The final GTR asphalt binder shall be referred to using the PG grade of the base asphalt binder, GTR, and the minimum percent of GTR required (example: 64-22 GTR 10).

HMAC Mixture Design. The mixture design shall be according to COSA Standard Specifications.

Construction Requirements. The GTR Modified AC HMAC shall be placed according COSA Standard Specifications with the following additions.

- (A) The GTR asphalt binder HMAC mixtures shall be delivered at a temperature of 300° F to 325° F. The mixture shall not be placed when the ambient (or surface) temperature is

below 55°F, during wet weather, or when local conditions indicate rain is imminent, unless approved by the Engineer.

(B) Breakdown compaction should be done while the mat is between 265°F and 300°F (130°C and 149°C). Finish compaction should be completed before the mat reaches a temperature of 240°F (115°C).

(C) Pneumatic-tired rollers will not be permitted.

(D) The addition of a non-foaming detergent to the roller water will be allowed to prevent sticking, if necessary.

Section 205.4 Construction G. Placement 6. Opening to Traffic. Traffic shall not be permitted on the new surface until the temperature of the mat has dropped below 140⁰ F (60⁰ C).

Add the following for placement of both Regular Type D and GTR Modified Asphalt Binder :

Section 205.4 Construction G. Placement 7. Acceptable mat ranges

The thickness types used for Regular Type D and GTR Modified Asphalt for this Asphalt Overlay Contract shall be 2.0" Compacted depth as specified by the Engineer or Project Manager. Below are acceptable average ranges for 2.0" thick Regular Type D and GTR Modified Asphalt layers:

2.0" Compacted Depth (Regular Type D and GTR Modified Asphalt)

Shall be applied at 220 LBS/SY

Minimum Average Rate – 210 LBS/SY

Maximum Average Rate – 230 LBS/SY

Section 205.5 Measurement:

Hot Mix Asphaltic Concrete Pavement shall be measured by the tonnage, complete in place, as per the thickness specified by the Engineer or Project Manager. Limits of payment will be from face of curb to face of curb. Pavement area shall not exceed the limits shown on the plans without written authorization. In the event the average rate for 2.0" Regular Type D or GTR Modified Asphalt falls below the approved ranges as stated in this provision, the newly laid asphalt will not be measured for payment and shall be removed and replaced at the contractor's expense. For situations where the contractor exceeds the maximum average rate for 2.0" Regular Type D or GTR Modified Asphalt, the excess asphalt will not be measured for payment.

Section 205.6 Payment:

The work performed and materials furnished, as described by this item and measured as provided in this provision, shall be paid for at the contract unit bid price per ton of "Hot Mix Asphaltic Concrete Pavement (Regular or GTR Modified)," which price shall be full compensation for furnishing and placing all materials, and for all labor, tools, equipment and

incidentals necessary to complete the work. The tack coat, when required, shall be paid under the provisions of Item No. 203.

Trial batches will not be paid for unless they are incorporated into pavement work approved by the Engineer or Project Manager.

Pay adjustment for ride quality, when required on the plans, will be determined in accordance with TxDOT Standard Specification Item 585, "Ride Quality for Pavement Surfaces."

As specified in the Measurement section of this provision, if the specified thickness is not achieved and falls below the average acceptable rate, the contractor will not be paid and will be required to remove and replace the entire area that did not fall within the acceptable range at his expense. Once the average rate is satisfactorily met, the contractor will be paid at the contract unit bid price per ton of "Hot Mix Asphaltic Concrete Pavement (Regular or GTR Modified)" for the successful surface course mat.

If the contractor exceeds the maximum average rate as specified in this provision for 2.0" Type D Asphalt (Regular or GTR Modified), the amount laid over maximum average rate for the specified thickness will not be paid.

For areas that are considered low spots that require additional Type D Asphalt (Regular or GTR Modified), they will be paid under the Type D Level Up Bid Item. These locations must be brought to the attention of the Engineer or Project Manager and approved prior to beginning the overlay.

Section 205.7 Bid Item:

Item 205.4A – Hot Mix Asphaltic Pavement, Type D (2.0" Thick) (GTR MODIFIED) – Per TON

Item 205.4B – Hot Mix Asphaltic Pavement, Type D (GTR MODIFIED) (Level Up) – Per TON

Item 205.4C – Hot Mix Asphaltic Pavement, Type D (2.0" Thick) – Per TON

Item 205.4D – Hot Mix Asphaltic Pavement, Type D (Level Up) – Per TON



Note: Addenda Acknowledgement Form for Addendum 2 is attached herein. This form must be signed and submitted with the bid package.

RECEIPT OF ADDENDUM NUMBER(S) 2 IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THE FY 2015 ASPHALT OVERLAY TASK ORDER CONTRACT PACKAGE 4

FOR WHICH BIDS WILL BE OPENED ON **TUESDAY, OCTOBER 28, 2014 AT 2:00 P.M.**

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title