

## **ADDENDUM NO. 1**

**PROJECT NAME: 2016 ASPHALT OVERLAY TASK ORDER CONTRACT PACKAGE 5  
– 23-01412**

DATE: 11/10/2015

### **ADDENDUM NO.1**

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.

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#### **Formal Invitation for Bid and Contract:**

**1. Bid Bond is not required.**

**2. 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.

**3. The following forms have been revised:**

- a. 010 Invitation for Bids (IFB) Form
  - i. Contract duration has been revised
- b. 025 Unit Pricing Form
  - i. Quantity and item revisions
- c. Project Description
  - i. Contract duration has been revised

**4. The following items have been removed:**

- a. Item 799 Speed Humps, Type 2 Modular Rubber Cushions specification and details

**5. The following items have been added:**

- a. CPS valve box and manhole adjustment specification
- b. Item 798 Asphalt Concrete Cushion Speed Humps, Type 3

**6. Contractor Questions:**

Q1. Please clarify liquidated damages and how they will be assessed

A1. Liquidated damages will be assessed on a task order basis. Time for substantial and final completion will be negotiated between the Contractor and City Engineer/Project Manager.

Q2. Can a contractor open a satellite office in San Antonio with an answering machine and be allowed to bid as a prime?

A2. In order to bid as a prime, the contractor must be headquartered in the San Antonio Metropolitan Statistical Area (SAMSA) for at least 1 year and must have 20% of employees that live in SAMSA. Additional questions can be directed to the City's SBEDA office.

Q3. When will the contract start?

A3. Contract is expected to start in the February 2016 timeframe.

**7. General Notes:**

- a. It is anticipated that some project sites may require working time restrictions or night and weekend work. No additional compensation will be paid or given to the contractor for reduced working times or night and weekend work.

**Note: Addenda Acknowledgement Form for Addendum 1 is attached herein. This form must be signed and submitted with the bid package.**

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# CITY OF SAN ANTONIO

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Issued By: Transportation and Capital Improvements  
ID NO.: 23-01412

Date Issued: November 10, 2015  
Addendum #1

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## (010) FORMAL INVITATION FOR BIDS (IFB) to CONTRACT 2016 Asphalt Overlay Task Order Contract Package 5 - #23-01412

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Sealed bids, subject to the Terms and Conditions of this Invitation for Bids and other contract provisions, will be received at the Office of the City Clerk, City Hall, 100 Military Plaza, 2nd floor San Antonio, Tx 78205 until **2:00 P.M. CST on Tuesday, November 17, 2015** and publicly read aloud in **City Council Chambers at 114 W. Commerce, Municipal Plaza Building**. This is the *solicitation deadline*. Bids must be submitted in a sealed envelope and clearly marked with the due date of bid, bidder name, Project Name and ID NO. The City is not responsible for submissions not clearly and appropriately marked. Late submissions will be rejected and returned to bidder. A Non-Mandatory Pre-bid meeting will be held at 114 W. Commerce, San Antonio, TX 78205 in the 9<sup>th</sup> fl. conference room on Wednesday, November 4, 2015 at 9:00 A.M. **Deadline for questions: 4:00 P.M., November 6, 2015.**

**This invitation includes the following Contract Documents:**

010	Invitation for Bids and Contract Signature Page	060	Supplemental Conditions
020	Bid Form	075	Performance Bond
025	Unit Pricing Form	076	Payment Bond
040	Standard Instructions to Respondent	081	General Conditions for Construction Contracts
050.01	SBEDA Guidelines	095	SAWS Special Conditions
■	Subcontractor/Supplier Utilization Commitment Form	■	Wage Decision

Plans, Specifications and Special Conditions may be purchased at a cost of **\$50.00** per set (tax included) from the office of **Lockwood, Andrew & Newman, Inc., 10101 Reunion Place, Ste 200, San Antonio, TX 78216; Phone: (210) 499-5082**. No refund will be made for plan sets that are returned. Changes to Plans, Specifications and Special Conditions will be included in an addendum and will be posted on the web at [www.sanantonio.gov/rfp listings](http://www.sanantonio.gov/rfp listings) along with this solicitation. Bidder understands and agrees that bidder is responsible for obtaining addenda and adhering to all requirements in addenda. City is not responsible for incorrect information obtained through other sources.

The following documents (fully completed and with original signatures) constitute the required information to be submitted as a part of the bid proposal:

- |     |     |   |   |
|-----|-----|---|---|
| 1.) | 010 | Invitation for Bids and Contract Signature Page |   |
|     |     |   | Subcontractor/Supplier Utilization Commitment |
| 2.) | 020 | Bid Form  | 4.) Form                                      |
| 3.) | 025 | Unit Pricing Form                               | 5.) Signed Addenda Acknowledgement Forms      |

It is understood and agreed that the work is to be substantially completed on or before **270** calendar days. This project does not include hazardous environmental work.

**Small Business Economic Development Advocacy (SBEDA) Program Compliance** – Respondents shall meet the subcontracting requirements as stated on Form 050.01 and on the Subcontractor/Supplier Utilization Commitment Form posted with this solicitation on the City's website.

**Wage Decision** – Respondent shall meet the prevailing wage rate requirements established for this contract and shall reference the wage decision posted with this solicitation on the City's website.

**The undersigned, by his/her signature, represents that he/she is authorized to bind the bidder to fully comply with Contract Documents for the amount(s) shown on the accompanying bid sheet(s). The work proposed to be done shall be accepted when fully completed and finished to the entire satisfaction of the City. The undersigned certifies all prices contained in this bid have been carefully checked and are submitted as correct and final. The bidder by submitting this bid and signing below, acknowledges that he/she has received & read the entire Bid and Contract document and agrees to be bound by the terms therein, has received all Addenda, and agrees to the terms, conditions, and requirements of the bidder's bid proposal and all documents listed in the tables above and the enabling Ordinance and associated documentation that form the entire Contract upon approval by the City Council.**

Official Name of Company (legal): \_\_\_\_\_

\_\_\_\_\_/\_\_\_\_\_  
Original Signature of Person Authorized to Sign Bid/Contract      Date      Signer's Name: \_\_\_\_\_  
(Please Print or Type)

CITY OF SAN ANTONIO  
025 UNIT PRICING FORM

PROJECT NAME: FY 2016 ASPHALT OVERLAY TASK ORDER CONTRACT - PACKAGE 5  
PROJECT NO. 23-01412

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	1,200			
103.3			REMOVE SIDEWALKS AND DRIVEWAYS	SF	8,000			
203.0			TACK COAT	GAL	2,000			
205.4A			HOT MIX ASPHALTIC PAVEMENT TYPE D (2" THICK) (PG 64-22)	TON	21,500			
205.4B			HOT MIX ASPHALTIC PAVEMENT TYPE D (LEVEL-UP) (PG 64-22)	TON	3,500			
208.1			SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPH. PVMT (2")	SY	202,500			
230.3			REPLACING BASE & PVMT WITH TYPE B PVMT (6" COMPACTED DEPTH)	TON	19,500			
230.3			REPLACING BASE & PVMT WITH TYPE B PVMT (12" COMPACTED DEPTH)	TON	1,000			
250			SEAL COAT	SY	298,000			
340			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" THICK) (PG 76-22) (CLASS "A" TRAP ROCK)	TON	10,500			
438			CLEANING EXISTING JOINTS	LF	300			
454			HEADER TYPE EXPANSION JOINT SEALANT	LF	300			
500			CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER	LF	1,200			
502.1			CONCRETE SIDEWALKS	SY	750			
502.1A			CURB RAMPS	EA	190			
503.1			PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	400			
512.1			ADJUSTING EXISTING MANHOLES (STORM SEWER)	EA	10			
512.1B			ADJUSTING EXISTING MANHOLES (AT&T)	EA	8			
515.1			TOPSOIL	CY	500			
516.1			SODDING	SY	1,500			
533-A			ELIM EXIST PVMT MRK AND RAISED MARKERS (4")	LF	400			
533-B			ELIM EXIST PVMT MRK AND RAISED MARKERS (8")	LF	200			
533-C			ELIM EXIST PVMT MRK AND RAISED MARKERS (12")	LF	200			
533-D			ELIM EXIST PVMT MRK AND RAISED MARKERS (24")	LF	200			
533-E			ELIM EXIST PVMT MRK AND RAISED MARKERS (SYMBOL)	EA	8			
533-G			ELIM EXIST PVMT MRK AND RAISED MARKERS (WORD)	EA	8			
533-H			ELIM EXIST PVMT MRK AND RAISED MARKERS (RR-XING)	EA	8			

CITY OF SAN ANTONIO  
025 UNIT PRICING FORM

PROJECT NAME: FY 2016 ASPHALT OVERLAY TASK ORDER CONTRACT - PACKAGE 5  
PROJECT NO. 23-01412

ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
535.1			4" WIDE YELLOW LINE	LF	85,000			
535.2			4" WIDE WHITE LINE	LF	18,000			
535.4			8" SOLID WHITE LINE	LF	2,800			
535.5			12" WIDE WHITE LINE	LF	650			
535.7			24" WIDE WHITE LINE	LF	1,800			
535.12			WORD "ONLY"	EA	35			
535.14			RAILROAD CROSSING SYMBOL	EA	4			
535.16			STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	40			
535.17			BICYCLE RIDER SYMBOL	EA	30			
535.22			WHITE SHARROW (BIKE SHARED LANE)	EA	25			
535.23			WHITE ARROW (LEFT/RIGHT/STRAIGHT)	EA	85			
537.1			TRAFFIC BUTTON (TYPE W)	EA	100			
537.2			TRAFFIC BUTTON (TYPE Y)	EA	1,750			
537.6			PAVEMENT MARKER (TYPE I-C)	EA	1,750			
537.8			PAVEMENT MARKER (TYPE II A-A)	EA	1,750			
537.9			PAVEMENT MARKER (TYPE II C-R)	EA	400			
556.1			CAST IN PLACE DETECTABLE WARNING SURFACE TILES	EA	40			
624.2			GROUND BOXES TYPE B (122322)	EA	5			
712			JOINT AND CRACK SEALING	LB	5,000			
798			ASPHALT CONCRETE CUSHION SPEED HUMPS, TYPE 3	EA	30			
SUP 1			DOOR HANGERS	LS	1			
SUP 2			POLICE OFFICER	HR	700			
SUP 3			RAILROAD INSURANCE AND PERMIT	LS	1			
SUP 4			LAPTOP AND WIRELESS INTERNET ACCESS	LS	1			
SUP 5			TCI AT WORK P ROJECT SIGN	EA	22			
SUP 6			PORTABLE CHANGEABLE MESSAGE SIGN (ELECTRONIC MESSAGE BOARD)	MO	18			
SUP 7			ADDITIONAL MOBILIZATION	EA	8			
						<b>Total CoSA Bid Amount:</b>		

CITY OF SAN ANTONIO  
025 UNIT PRICING FORM

PROJECT NAME: FY 2016 ASPHALT OVERLAY TASK ORDER CONTRACT - PACKAGE 5  
PROJECT NO. 23-01412

ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
<b>SAWS WATER BID ITEMS</b>								
826			SAWS VALVE BOX ADJUSTMENT	EA	280			
826A			VALVE BOX LOCATE AND ADJUSTMENT (SAWS)	EA	10			
				<b>Subtotal SAWS Water Bid Amount:</b>				
<b>SAWS SANITARY SEWER BID ITEMS</b>								
851			ADJUSTING EXISTING MANHOLES (SAWS)	EA	150			
851A			LOCATING AND ADJUSTING EXISTING MANHOLES (SAWS)	EA	10			
				<b>Subtotal SAWS Sanitary Sewer Bid Amount:</b>				
				<b>Total SAWS Bid Amount:</b>				
<b>CPS ENERGY BID ITEMS</b>								
512.1A			ADJUSTING EXISTING MANHOLE (CPS ENERGY)	EA	5			
512.3A			ADJUSTING EXISTING VALVE BOX (CPS ENERGY)	EA	50			
				<b>Total CPS Energy Bid Amount:</b>				
				<b>Total (CoSA + SAWS + CPS) Bid Amount:</b>				

\_\_\_\_\_ 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: \_\_\_\_\_

# Project Description

## Project Duration

This task order construction contract shall be terminated two hundred and seventy (270) calendar days after the notice to proceed is issued by the Project Manager. The construction time (in calendar days) for each individual site will be negotiated between the City Engineer or Project Manager and the Contractor. The Contractor will be expected to begin construction for each individual site in accordance with Article 1- General Provisions, Section 1.2.4, Notice to Proceed and Commencement of Contract Times in the General Conditions-City of San Antonio Construction Contracts. Liquidated damages for construction time will be assessed on a per task order basis should the contractor fail to complete the construction in the specified working days as negotiated by the City Engineer or Project Manager. The Contractor shall refer to section 4.3.6 of the general conditions for claims for additional contract time due to inclement weather.

## Project Scope

Project construction may include but is not limited to: asphalt milling and overlay, seal coat, base and pavement replacement, cleaning and sealing joints and cracks, curb ramps, concrete curbs, sidewalks, driveways, concrete retaining walls-combination type, speed humps, topsoil, sodding, signage, striping and pavement markings removal and installation, adjusting existing valve boxes and manholes, and any other items required due to the site conditions to accomplish the project scope.

Quantities included in this contract, as well as the entire bid amount are not guaranteed. Unit prices established shall remain valid throughout the duration of the contract.

## Project Location

Project locations have been provided in this contract. Each project site will be issued as a separate Task Order and quantities will be provided to the Contractor.

**It is anticipated that some project sites may require working time restrictions or night and weekend work. No additional compensation will be paid or given to the contractor for reduced working times or night and weekend work.**

## Important Notes

No direct payment shall be made for the following specification items. Contractor shall include cost of these items in various other bid items:

- 100.1 Mobilization
- 100.2 Insurance and Bond
- 101.1 Preparing Right-of-Way
- 530.1 Barricades, Signs, and Traffic Handling
- 540 Temporary Erosion, Sedimentation and Water Pollution Prevention and Control

Excavation due to construction of curb, sidewalk, retaining walls, driveways, and parkway grading (edge of pavement/curb to property line) shall not be paid for directly but shall be included in various other bid items of which it forms a component part.

The City will pay additional mobilization (see Supplemental Specification 7) accordingly for the following situations:

1. For special request projects where the Project Manager requires immediate mobilization (within a 24 to 48-hour period) by the Contractor.
2. For instances where the contractor has mobilized equipment to a specific site, then is asked by the City to relocate equipment to a new project without performing any work on the original project.

**Flatwork Construction Method:**

See details in the specifications.

**Concrete Curb, Curb and Gutter, and Mountable (Roll Over) Curb:**

All cost to install this type of curb shall be paid under Item 500.1 Concrete Curb, Curb and Gutter, and Mountable Curb.

Reference Special Provision Item 502 – Concrete Sidewalks for payment of concrete sidewalk and curb ramps.

City of San Antonio Traffic Engineering Department will typically recommend traffic control layout at each project location.

All City of San Antonio Specifications & Construction Detail sheets are available on the City's Website at:

<http://www.sanantonio.gov/TCI/CurrentVendorResources/StandardSpecificationsandDetails.aspx>

All Construction and Material Specifications for SAWS bid items are available at:

[http://www.saws.org/business\\_center/specs/constspecs/](http://www.saws.org/business_center/specs/constspecs/)  
[http://www.saws.org/business\\_center/specs/matspecs/](http://www.saws.org/business_center/specs/matspecs/)

The Specific Contract Documents for this project are available on the City's Website at:

<http://www.sanantonio.gov/purchasing/biddingcontract/opportunities.aspx>

Click on the following link "2016 Asphalt Overlay Task Order Contract Package 5"

# SPECIFICATION FOR THE ADJUSTMENT OF VALVE BOXES AND CATHODIC PROTECTION TEST STATIONS

**Description:** This specification covers the adjustment of existing valve boxes, test riser boxes, cathodic protection test stations and manholes for regulator vaults on CPS Energy facilities in accordance with these specifications and as directed by the authorized CPS Energy representative.

**Materials:** All valve boxes, lids, test stations and adjustment rings will be provided by CPS Energy. These materials are available at the CPS Energy construction centers and may be picked up by the Contractor during CPS Energy regular business hours. All unused materials are to be returned to the construction center where it was obtained. Any returned material that is damaged or otherwise deemed to be unusable by CPS Energy shall be billed to the Contractor. Payment of the final invoice for the adjustment work will not be made until all material quantities are verified and materials are returned. Any boxes damaged by milling or other construction operations, shall be replaced by the Contractor at his expense.

**Adjustments:** The locations for the adjustments shall be as shown on the plans provided to the Contractor. For the purposes of this specification plans may include, but are not limited to, plan sheets, excel spreadsheets or other forms of data that provide the Gas Contractor with information to locate the device to be adjusted. The Gas Contractor shall verify with the CPS Energy authorized representative that a gas leak survey has been performed and that CPS Energy has completed all necessary leak repairs prior to the commence of the road work.

Once the Gas Contractor has received the plans, the Gas Contractor shall visually inspect each location and verify the need for adjustment based on the roadway plans with the CPS Energy Authorized Representative. The Gas Contractor shall also verify that valve boxes are vertical so that a valve key can operate the valve. If there is debris in the valve box, the Gas Contractor shall remove the debris from the box. The Gas Contractor shall also determine if test risers require adjustment. If the test riser requires adjustment, the Gas Contractor shall notify the CPS Energy Authorized Representative to arrange for a CPS Energy Crew to adjust the riser. For cathodic protection boxes, the Gas Contractor shall verify that the box is neat and clean. If the wires are missing or need attention, the Gas Contractor shall notify the CPS Energy Authorized Representative so that a CPS Energy Crew can repair the cathodic protection leads. After the roadway work is completed, the Gas Contractor shall verify the work is completed, with the CPS Energy Authorized Representative, by taking a photograph inside the valve box, cathodic protection box, test riser box or regulator box.

The Gas Contractor shall coordinate with the General Contractor to adjust the valve boxes to meet the General Contractors schedule and elevations. The valve boxes shall

## SPECIFICATION FOR THE ADJUSTMENT OF VALVE BOXES AND CATHODIC PROTECTION TEST STATIONS

be adjusted in such a manner as to prevent shock or stress from being transmitted to the valve. It shall be centered and plumb over the operating nut with the box cover flush with the surface of the completed road surface. If valve boxes contain debris, the Gas Contractor shall remove the debris from the valve box. During construction, it is the General Contractors responsibility to maintain access to all gas valves during the construction period. No valves may be covered with dirt, asphalt or other debris that would hinder accessing their location in an emergency.

The Gas Contractor shall coordinate with the General Contractor to adjust cathodic protection and test riser boxes to meet the General Contractors schedule and elevations. The boxes shall be adjusted in such a manner to ensure that the cathodic protection leads and the test risers remain intact and accessible. The Gas Contractor is responsible for adjusting the box to final grade after adjustment of the test riser is completed by a CPS Energy Crew.

Regulator vault access manholes vary in size and may contain more than one access manhole. The Gas Contractor shall determine the size of the opening during the initial inspection with the CPS Energy Authorized Representative, prior to requesting materials. The Gas Contractor shall coordinate with the General Contractor to adjust the regulator access manholes to meet the General Contractors schedule.

For boxes that are located in concrete, the Gas Contractor shall adjust the box to final grade and monitor the box during concrete placement to ensure that concrete does not enter the interior of the box. The Gas Contractor shall remove any concrete inside the box at no additional expense to CPS Energy.

If during construction, boxes are discovered that are not shown in the plans, the Gas Contractor shall notify the CPS Energy Authorized Representative. The Gas Contractor shall inspect and adjust the box or access manhole as described above.

**Measurement:** Adjustment of valve boxes shall be measured as follows:

- 1) Adjust valve box that is clear, cathodic protection box or test riser box to grade, each.
- 2) Adjust valve box to grade and clean, each.
- 3) Adjust regulator access manhole, each.
- 4) Replace valve box from surface to top of valve, each.

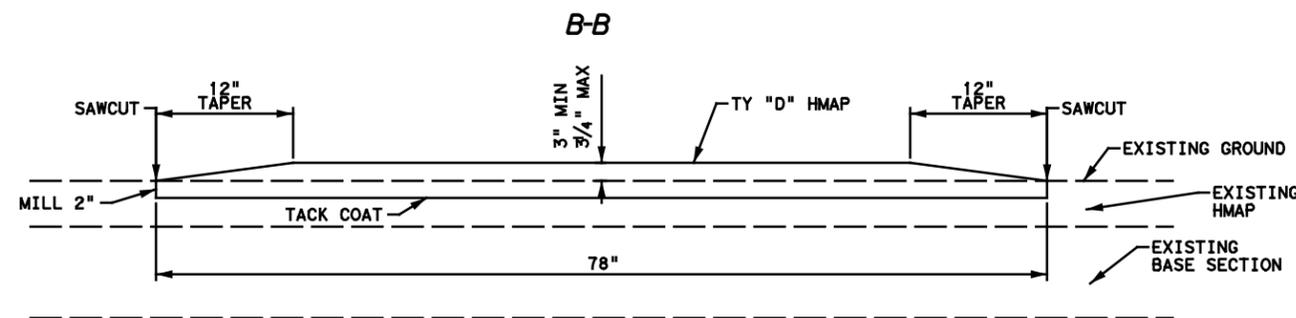
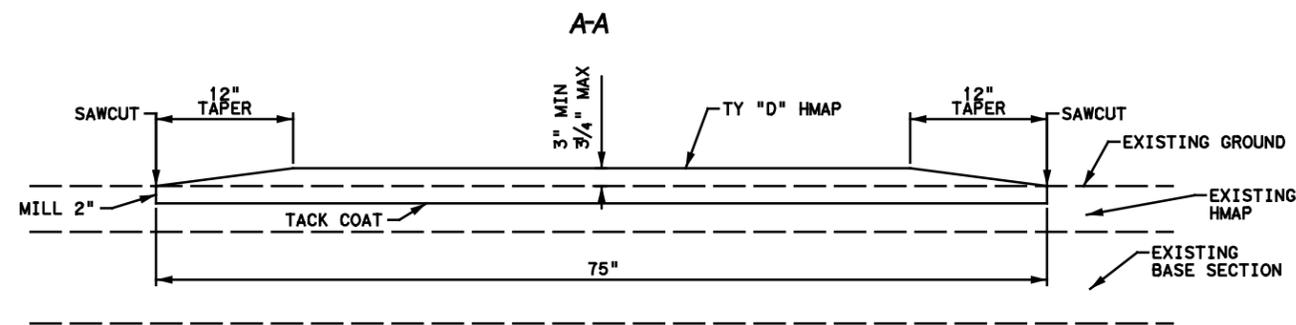
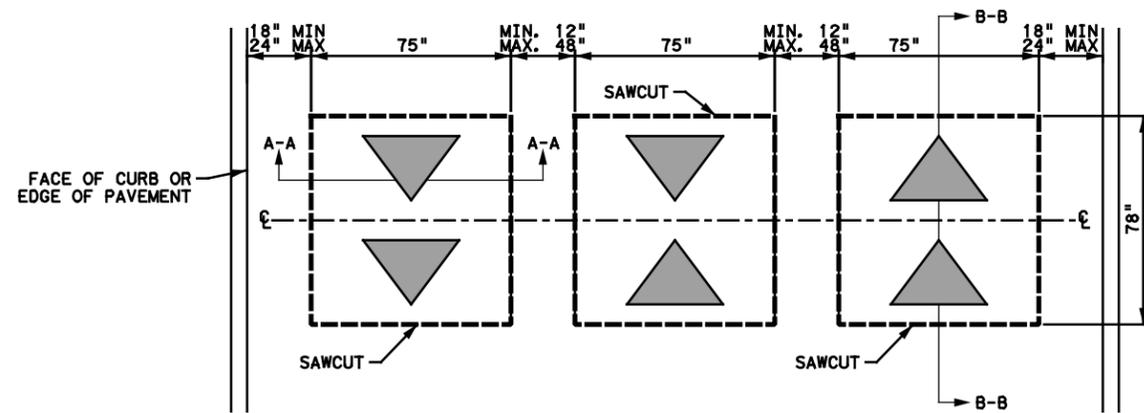
**Payment:** Adjustment of valve boxes shall be paid as follows:

- 1) Adjust valve box that is clear, cathodic protection box or test riser box to grade, each.
- 2) Adjust valve box to grade and clean, each.
- 3) Adjust regulator access manhole, each.
- 4) Replace valve box from surface to top of valve, each.



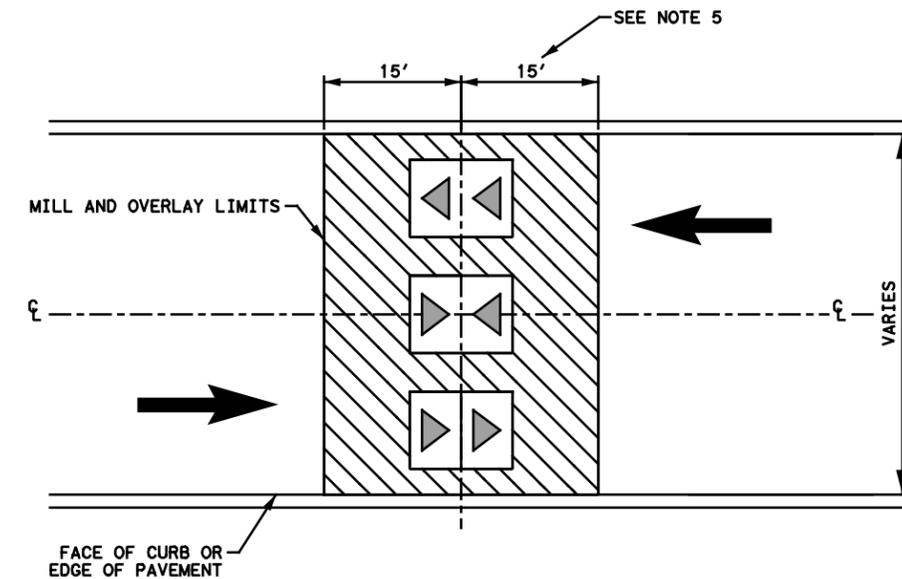
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NOTE:

1. CONTRACTOR TO TAKE INTO ACCOUNT COMPACTION TO ACHIEVE REQUIRED DIMENSIONS.
2. SPEED HUMP HEIGHT SHALL BE 3" MINIMUM WITH A MAXIMUM HEIGHT OF 3/4" AFTER COMPACTION.
3. ASPHALT MILL AND OVERLAY LIMITS TO BE VERIFIED BY THE ENGINEER OR PROJECT MANAGER PRIOR TO INSTALLATION OF TYPE III SPEED CUSHION. CITY MAY CHOOSE TO COMPLETE BASE AND PAVEMENT REPLACEMENT AS PART OF MILL AND OVERLAY LIMITS. BASE AND PAVEMENT REPLACEMENT SHALL FOLLOW CITY OF SAN ANTONIO SPECIFICATION 230.
4. EXISTING RUBBER CUSHIONS THAT ARE REMOVED FOR INSTALLATION OF TYPE III SPEED CUSHIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5. ACTUAL MILL AND OVERLAY LIMITS TO VARY DEPENDING ON CONDITION OF EXISTING PAVEMENT.



MILL AND OVERLAY LIMITS

NTS

NOVEMBER 2015



CITY OF SAN ANTONIO  
TRANSPORTATION AND CAPITAL IMPROVEMENTS

ASPHALT CONCRETE SPEED  
CUSHION TYPE III DETAIL

100% SUBMITTAL	PROJECT NO.:	DATE: 11/06/15
DRAWN BY:	DSGN. BY:	CHKD. BY:
		SHEET NO.:

**ITEM 798**  
**SPECIAL SPECIFICATION**  
**ASPHALT CONCRETE CUSHION**  
**SPEED HUMPS, TYPE 3**

**Asphalt Concrete Speed Humps**

**Description**

Work consists of construction of speed humps as required in contract documents and as directed by Project Engineer.

For the purpose of this specification, all references are in accordance with COSA Standard Specifications latest edition.

**General**

Locations of speed hump to be approved by COSA Traffic Engineer Division prior to installation.

Speed hump shall not be installed such that roadway drainage is compromised.

The Contractor shall contact the Engineer for coordination a minimum of three (3) working days prior to the construction of the speed humps.

The Contractor shall furnish and use canvas tarpaulins to cover all loads of asphalt from the time that the mixture is loaded until it is discharged from the delivery vehicle, unless otherwise directed in writing by the Engineer.

**MATERIALS**

**Asphalt**

Asphalt concrete shall be Type D, PG 64-22, in accordance with the provisions of Item 205, "Hot Mix Asphaltic Concrete Pavement," of the Standard Specifications.

**Tack Coat**

Tack coat must be applied prior to installation of all speed humps along all edges of milled limits. Tack coat shall be SS-1H type emulsion applied at a rate of 0.02 gallons per square yard up to a maximum of 0.10 gallons per square yard.

The area to which tack coat has been applied shall be closed to public traffic. Care shall be taken to avoid tracking binder material onto existing pavement and concrete surfaces beyond the limits of construction.

No traffic shall be allowed on to the area to which tack coat has been applied with the exception of vehicles unloading asphalt concrete. All vehicles involved with the

Contractor's operations shall turn around within the road right-of-way. Driveways and other private property shall not be used without prior written consent of the involved property owner, a dated copy of which shall be delivered to the Engineer prior to the use thereof.

### **Striping**

Pavement markings shall be white in color, triangular in shape and placed on the Asphalt Hump as shown on Hump detail. Striping to be placed in accordance with Item 535 "Hot Applied Thermoplastic Pavement Markings." White temporary tabs shall be placed the same day the speed humps are installed. Payment for temporary tabs is subsidiary to the cost of speed humps. Permanent striping shall be completed 7 to 14 days after installation of the speed humps.

### **Signs and Sign Post**

Signs and Sign post shall be supplied by the contractor and installed per COSA specification 531 "Signs."

## **CONSTRUCTION DETAILS**

### **General**

At least 5 calendar days prior to commencing installation of speed humps, contractor is to provide written notification of planned work to the residents of the street receiving such treatment, residents of any intersecting streets up to one block away, and to Project manager. Project Manager will notify Office of Emergency Services, local City office, City School Districts and any other interested parties that installation of speed humps is scheduled to take place.

Notification of residents is to be type written and shall contain information informing the residents of planned work, and is to be approved by Project Manager before distribution. Notification is to be placed on front door and distributed to all residents as required. Contractor shall not place notices in property owner's mailbox.

In conjunction with construction of speed humps, contractor will install all required signage and sign posts. Contractor is responsible to coordinate installation of required signage and sign posts with the construction of speed hump, and is to notify COSA Traffic Engineering at 207-2075 minimum of 10 working days in advance of commencing construction of speed hump.

Existing street can be temporarily closed on daily basis and during working hours only while speed hump construction is taking place. Existing street must be fully accessible to vehicular traffic at end of each work day. Street closure is to be done with use of appropriate traffic control signs and devices required to maintain and protect traffic per applicable TMUTCD standards.

Adjacent areas disturbed or damaged during construction are to be restored, in kind to satisfaction of Project Manager, immediately following completion of speed hump construction at contractor's expense.

### **Construction Performance Standards**

The Engineer will not accept any speed hump that is less than three inches (3 ") in height or exceeds a maximum three and one quarter inches (3 1/4") in height or that is not of the shape shown in the Type 3, Speed Hump Detail.

Cross section and profile of each and every speed hump are to be surveyed to verify that each speed hump has been constructed in required shape, and that it falls with required tolerance range.

Take any steps necessary to correct any deficiencies that fall outside of required tolerance.

### **Construction Installation**

Speed humps are to be constructed of asphalt surface course as described in speed hump details.

Use any method necessary to form shape as described in Asphalt Concrete Speed Hump Detail and to achieve proper height of speed hump.

Do not perform final rolling operation until required shape of each speed hump in turn has been verified in accordance with applicable tolerances. Contractor to take into account compaction to achieve required dimensions.

Pavement Markings are to be installed according to item 535 Hot Applied Thermoplastic Pavement Markings.

Sawcut existing asphalt to the shape of the new speed hump and mill out a minimum of 2.0 inches of existing material for installation of proposed speed hump. Thoroughly clean pavement surface and apply tack coat making sure to completely cover surface area. Tack coat must be applied before placement of new asphalt material, and between any and subsequent asphalt courses.

Unless otherwise directed by the engineer or designated City Staff, the Contractor shall install posts, speed hump warning and advisory speed signs at the exact locations marked by the Engineer or designated City staff on the pavement in advance of each speed hump. The sign location list and map provided with the Notice to Proceed will show the general locations only. Permanent warning and advisory signs may be installed prior to construction of speed humps. If installed more than one week prior to construction, signs shall remain covered until construction is completed. If not installed prior to construction, warning and advisory signs must be installed within 48 hours of construction.

The Contractor shall construct speed humps at the exact locations marked on the pavement by the Engineer or designated City staff. The speed hump street list and location maps provided with the Notice to Proceed for each phase of the project will show the general locations only.

Street widths in exhibits provided with each Notice to Proceed are measured from lip-of-gutter to lip- of-gutter or face of curb to face of curb as applicable. Measurements are approximate only.

### **Measurement**

Speed humps shall be measured by each hump placed. Saw cutting, excavating and disposal of existing material underneath proposed location of asphalt speed hump will not be measured for payment. Tack Coat will also not be measured for payment. The Engineer shall make final measurements in the field.

White temporary tabs will not be measured for payment as they are considered subsidiary to the cost of speed humps.

Permanent striping will be measured the linear footage of striping installed as per Item 535 "Hot Applied Thermoplastic Pavement Markings."

### **Payment**

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid per Each for "Asphalt Concrete Speed Cushion, Type 3." This price is full compensation for removal and disposal of existing speed hump (rubber or asphalt), removal and disposal of existing asphaltic material where proposed speed hump is to be installed, saw cutting, excavation, asphalt, tack coat, installation, and equipment, labor, materials, tools and other incidentals required to complete the task.

Payment for pavement markings will be placed under applicable items for Item 535 "Hot Applied Thermoplastic Pavement Markings."

Payment for signs will be placed under applicable items for Item 531 Signs.

Surface restoration shall consist of restoring all areas within the limits of work to their original existing condition prior to construction.

The Contractor shall restore all paved areas, such as driveways, curb and gutter, roadway surfaces, ditches, landscaped areas, etc., and all other improvements disturbed or damaged by his operations at no additional cost to the City.

Payment for the restoration of damaged areas, for which specific bid items are not provided, shall be included in the contract prices paid for various items of work, and no additional compensation will be allowed therefore.



RECEIPT OF ADDENDUM NUMBER(S) **1** IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THE **2016 ASPHALT OVERLAY CONTRACT PACKAGE 5 – #23-01412**

FOR WHICH BIDS WILL BE OPENED ON **TUESDAY, November 17, 2015 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