

CAMP BULLIS ROAD 12-INCH WATER MAIN PROJECT

Solicitation No.: CO-00082-RA

Addendum 2 | July 22nd 2016

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

QUESTIONS

1. See "Questions and Responses" sheet attached in this addendum.

END OF QUESTIONS

CHANGES TO DRAWINGS

1. Insert attached Traffic Control Drawing as sheet TC-4.

END OF CHANGES TO DRAWINGS

CHANGES TO THE TABLE OF CONTENTS

1. Remove and replace the Table of Contents in its entirety and replace with the Table of Contents attached in this addendum.

END OF CHANGES TO TABLE OF CONTENTS

ACKNOWLEDGEMENT BY RESPONDENT

Each Respondent shall acknowledge receipt of this Addendum No. 2 by noting such and signing the Bid Proposal.

END OF ADDENDUM

7-21-2016
Ismael L. Rosales
Ismael L. Rosales



QUESTIONS AND RESPONSES

1. **Question:** Rosalee, specification 01430 is missing per the Table of Contents

Response: Specification Section 01430 “Manufacture Field Service” is not applicable for this project and should not be included in the Specifications or listed in the Table of Contents. See revised Table of Contents attached.

2. **Question:** The bore pit will have to remain open overnight. Will two-way traffic be shut down to just one-way traffic for this? If not, how will traffic be handled? Will concrete barriers be required?

Response: The intent is for the road to remain accessible to two way traffic even as the bore pits are open. Drawings for the relevant Texas Department of Transportation traffic plan are included as Sheet TC 4 attached to this Addendum. The contractor will provide the necessary traffic control measures. Concrete barriers will be required near the bore pits for as long as they are open.

3. **Question:** Flowable fill is called out on the plans in two locations for a total of 400CY. On all other excavation the existing material will be compacted and used for secondary backfill. Is this correct?

Response: The plans call for flowable fill in four locations. There are two bore pits and two receiving pits for a total of approximately 800 CY. The bore pits and receiving pits are the only locations that call for flowable fill. Other excavation will be backfilled according to the specifications.

4. **Question:** I do not understand bid item No. 3 Concrete Fill for Karst Feature. What is a Karst Feature? Where on the plans is it? What are the limits of excavation and concrete placement?

Response: Karst Features are voids in karst limestone which also match the definition of a sensitive feature as set by the TAC. A sensitive feature is defined by 30 TAC 213.3(29) as a “permeable geologic or manmade feature located on the recharge zone or transition zone where:

- 1) a potential for hydraulic interconnectedness between the surface and the Edwards Aquifer exists; and
- 2) rapid infiltration to the subsurface may occur”

This project is located in an area where the discovery of such sensitive karst features is possible but unlikely. Trenching will be monitored by a geologist who will review the excavation for the presence of karst features and develop a proper response if one is discovered. Typically, features will only need be filled with concrete before work can continue. The discovery of a large feature may necessitate a more comprehensive response. The locations of karst features are unknown so they are not indicated on the plans.

5. **Question:** When will bid item No. 6 be used? How many days would this Intermediate Demobilization last?

Response: The Intermediate Demobilization/Remobilization is included in case of some delay not covered by the General Conditions (the discovery of a large karst feature, for example). There is no set length for the Intermediate Demobilization.

6. **Question:** Is this job in COSA street cut permit jurisdiction? Bexar County?

Response: This project is located in City of San Antonio street cut permit jurisdiction.

7. **Question:** Please furnish the bidders two profile sheets showing the offsets and their depth for the two proposed bores at stations 1+62 thru 2+12 and 12+52 thru 12+72. These areas are in rock and we cannot establish an accurate cost without knowing how deep we will be required to go.

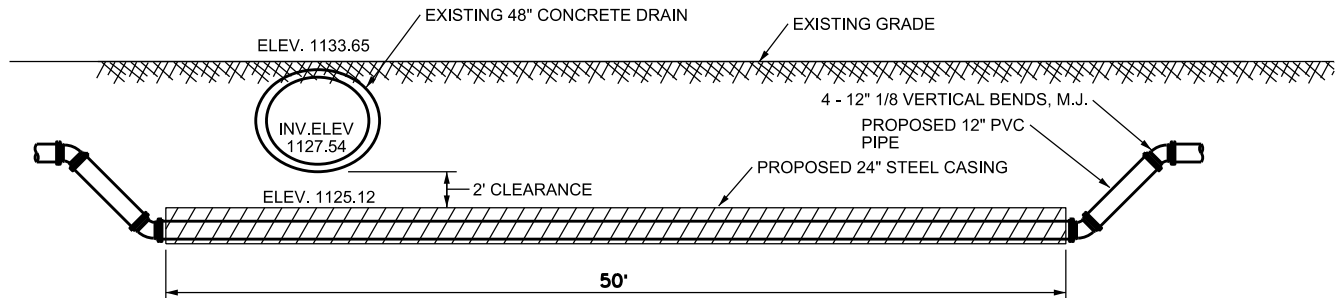
Response: Profile diagrams are included as Attachment A of this addendum. These diagrams are for clarification only and should not be used for construction. Additional descriptions of the bores follows:

The bore beginning at station 1+62.21 will need to be deep enough to install the new 24" steel casing with 2' of clearance between the top of the new steel casing and the bottom of the existing Reinforced Concrete Pipe (RCP). The RCP has a total height of approximately 60". The difference between the elevation of the road and the top of the RCP is approximately 16". The minimum depth of the bore is approximately 10.5', but the final depth will be determined by the contractor.

Similarly, the bore beginning at station 12+52.20 will need to be deep enough to install the new 24" steel casing with 2' of clearance between the top of the steel casing and the bottom of the 6' X 6' Storm Drain Box. The difference between the elevation of the road and the top of the Storm Drain Box is approximately 30" so the minimum depth of the bore bit is approximately 12.5' but the final depth will be determined by the contractor.

8. **Question:** Plan sheet WD4 shows a detail for Removable Bollards. Will these be required and if yes where at and how many so an accurate price can be included in the bid?

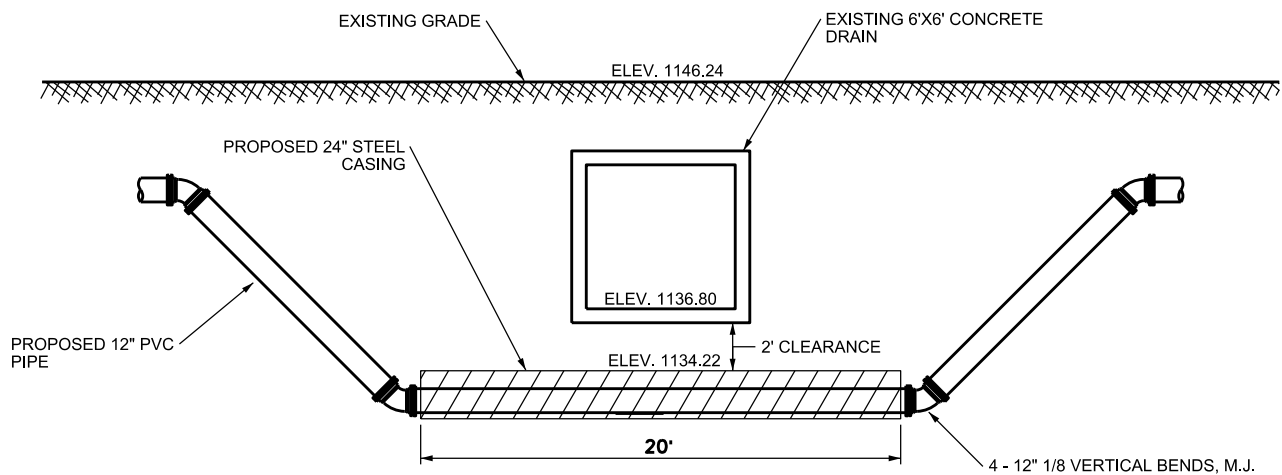
Response: Yes, removable bollards are required. There will be four removable bollards located near the corners of the water meter vault as shown on drawing WD 1.



48" CONCRETE CROSSING

N.T.S.

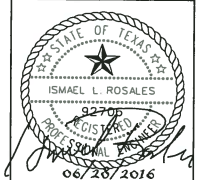
NOTE: THIS DRAWING IS FOR CLARIFICATION ONLY



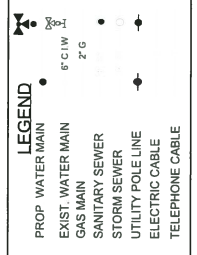
6'X6' CONCRETE CROSSING

N.T.S.

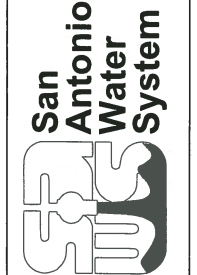
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No.	Description	Drn.	Appr.	Date



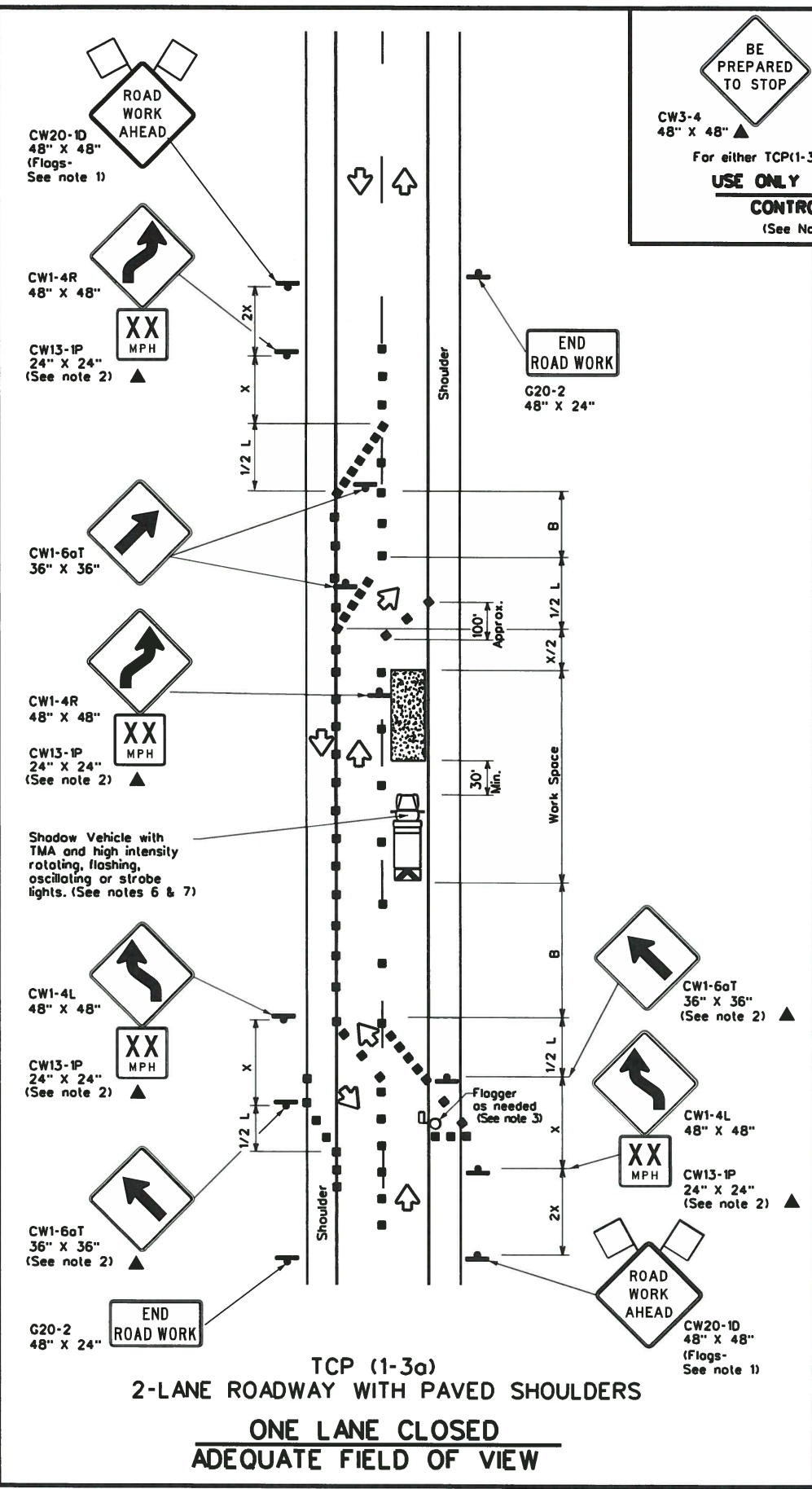
Date: 06-28-2016
 Drawn By: HG
 Designed By: HG
 Checked By: IR
 Scale:
 Approved By:
 Map No.:



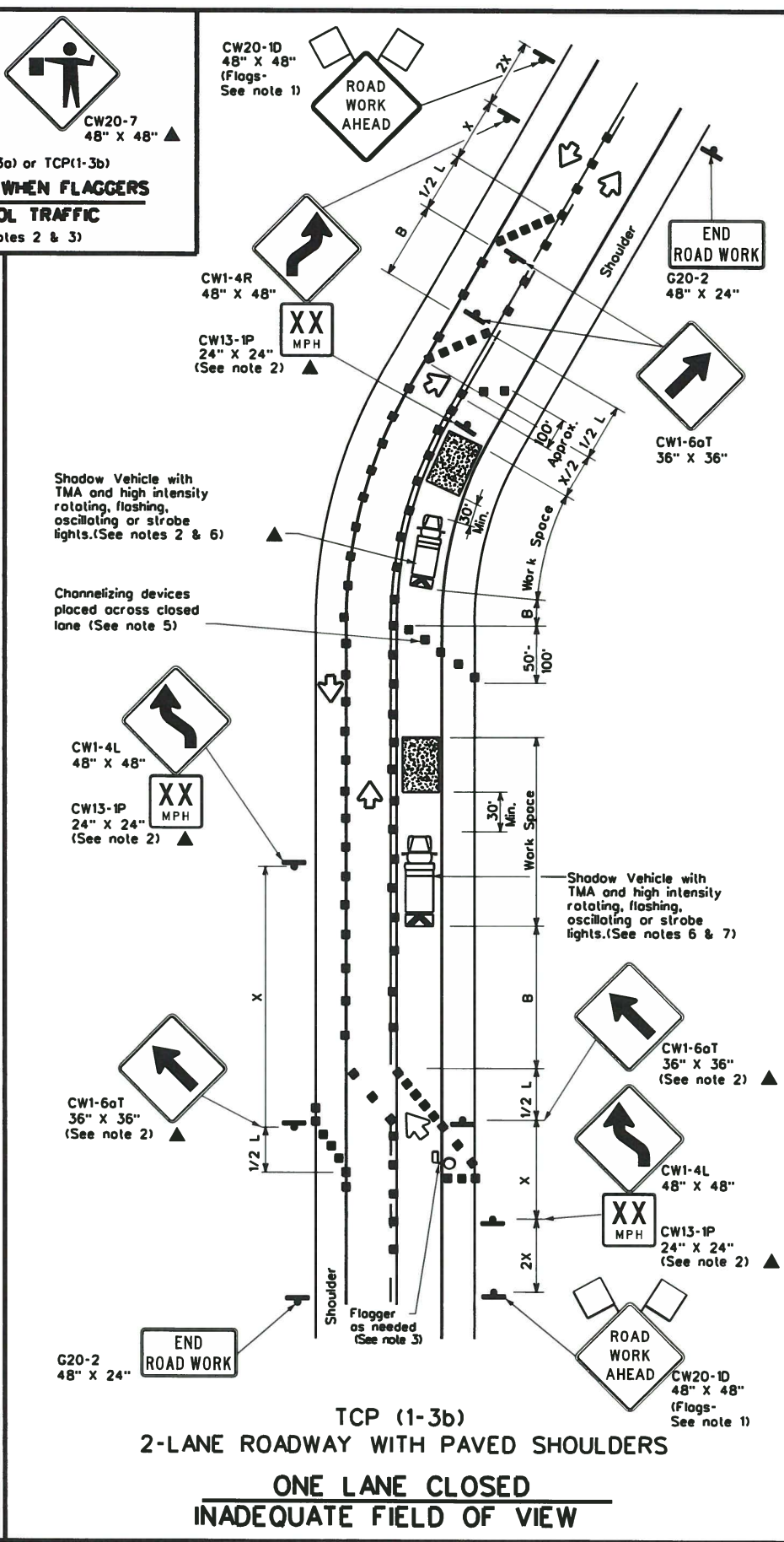
CAMP BULLIS ROAD
 12" WATER MAIN
 TRAFFIC CONTROL

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



BE PREPARED TO STOP
 USE ONLY WHEN FLAGGERS CONTROL TRAFFIC
 (See Notes 2 & 3)



LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed =	Formula	Minimum Desirable Taper Lengths x x			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = $\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L + WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	700'	770'	840'	70'	140'	800'	475'	
75	750'	825'	900'	75'	150'	900'	540'	

x Conventional Roads Only
 xx Taper lengths have been rounded off.
 L-Length of Taper(FT) W-Width of Offset(FT) S-Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Additional flaggers may be positioned in advance of traffic queues to alert traffic to reduce speed.
- DO NOT PASS, PASS WITH CARE and construction regulatory speed zone signs may be installed downstream of the ROAD WORK AHEAD signs.
- When the work zone is made up of several work spaces, channelizing devices should be placed laterally across the closed lane to re-emphasize closure. Laterally placed channelizing devices should be repeated every 500 to 1000 feet in urban areas and every 1/4 to 1/2 mile in rural areas.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20', or 15' if posted speed are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the area of conflicting markings not the entire work zone.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
 Traffic Operations Division

TRAFFIC CONTROL PLAN
TRAFFIC SHIFTS ON
TWO LANE ROADS

TCP(1-3)-12

© TxDOT December 1985		DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
2-94	2-12	CONT	SECT	JOB	HIGHWAY
8-95		DIST	COUNTY	SHEET NO.	
1-97					
4-98					

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 Revised: 7/22/2016

**Contract Documents
Table of Contents**

BIDDING AND CONTRACT REQUIREMENTS	PAGE
Invitation to Bidders (<i>Rev. 1/14/2016</i>) . . . . .	. IV-1
Instructions to Bidders (<i>Rev. 1/11/2016</i>). . . . .	. IB-1
Workers' Compensation Insurance Coverage Requirements (<i>Rev. 9/08/2015</i>) . . . . .	. WC-1
Contractor's Bid Packet Checklist (<i>Rev. 1/11/2016</i>) . . . . .	. BC
Bid Proposal. . . . .	. BP-1
Proposal Certification (<i>Rev. 3/2014</i>). . . . .	. PC-1
Good Faith Effort Plan (<i>Rev. 10/2014</i>) . . . . .	. GFEP-1
Conflict of Interest (<i>Rev. 11/30/2015</i>). . . . .	. Form CIQ
Wage Decisions . . . . .	. WR-1
Asbestos Workers Memo (<i>Rev. 11/05/2002</i>) . . . . .	. AAWR-1
General Conditions of the Contract (<i>Rev. 6/15</i>) . . . . .	. GC-1
Contract Agreement (<i>Rev. 1/11/2016</i>) . . . . .	. CA-1
Performance and Payment Bond (<i>Rev. 1/11/2016</i>) . . . . .	. PB-1
Contractor Suspension Policy Exhibit "B" (<i>Rev. 3/14</i>). . . . .	. SP-1
Contractor Security Procedures Exhibit "C" (<i>Rev. 3/14</i>) . . . . .	. SP-10
Request for Taxpayer Identification Number and Certification Form (<i>Rev. 12/2014</i>). . . . .	. W-9
Instructions for Completing the ACORD Certificate of Liability Insurance (<i>Rev. 2/16/2016</i>) . . . . .	. ICS
Supplemental Conditions . . . . .	. SS-1
Special Conditions. . . . .	. SC-1
 (Separate Documents)	
CoSA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (Latest Edition)	
SAWS SPECIFICATIONS FOR WATER & SANITARY SEWER CONSTRUCTION (April 2014)	

TECHNICAL SPECIFICATIONS

DIVISION 1: GENERAL REQUIREMENTS

- 01025 MEASUREMENT AND BASIS OF PAYMENT**
- 01075 SCHEDULE OF VALUES**
- 01110 SUMMARY OF WORK**
- 01321 PROGRESS SCHEDULES**
- 01322 CONSTRUCTION PHOTOGRAPHS**
- 01323 PROJECT RECORD DOCUMENTS**
- 01324 PRE-CONSTRUCTION VIDEO**
- 01330 SUBMITTALS**
- 01451 QUALITY CONTROL**
- 01500 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS**
- 01600 MATERIAL AND EQUIPMENT**
- 01720 FIELD ENGINEERING**

DIVISION 2: SITE CONSTRUCTION

- 02081 FIRE HYDRANTS**
- 02083 VALVES**
- 02112 TREE PROTECTION**
- 02218 LANDSCAPING GRADING**
- 02224 TRENCH EXCAVATION SAFETY PROTECTION SYSTEM**
- 02315 EXCAVATION**
- 02316 FILL AND BACKFILL**
- 02317 EXCAVATION, BACKFILLING, AND COMPACTION**
- 02360 VEGETATION RESTORATION**
- 02400 JACKING AND BORING**
- 02510 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FITTINGS**
- 02520 DUCTILE IRON PIPE AND FITTINGS**
- 02700 DISINFECTION**
- 02900 REMOVABLE BOLLARDS**

02934 HYDROMULCH SEEDING

DIVISION 3: CONCRETE

03100 CONCRETE FORMWORK

03300 CAST-IN-PLACE CONCRETE

03315 VOID AND WATER FLOW MITIGATION

03400 FLOWABLE BACKFILL