



BPC CENTRAL LARGE DIAMETER PACKAGE 1
Solicitation Number: CO-00299
SAWS Sewer Job No.: 18-4535

ADDENDUM 2
May 6, 2020

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bidding documents 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 proposal.

MODIFICATIONS TO SPECIFICATIONS

1. Remove the Bid Proposal in its entirety and replace with the attached Bid Proposal. This revised version should be used by bidders when submitting a bid for this project. The following items were updated:
 - a. Item No. 88 (Spec SP1109.1) – Updated quantity
 - b. Item No. 89 (Spec SP1109.2) – Updated quantity

MODIFICATIONS TO PLANS

1. Plan sheet 2 – Replace sheet dated 04/23/2020 with attached sheet dated 05/05/2020.

RESPONSES TO QUESTIONS

1. Will the Owner/Engineer please provide the budget for this project?

Answer: The estimated cost for this project is \$13,427,262.47. This can be found on the SAWS website located here: https://apps.saws.org/Business_Center/Contractsol/Drill.cfm?id=3773&View=Yes

2. Will the Owner/Engineer please provide any previous itemized bid tabulations for projects of similar scope?

Answer: Previous projects can be found under the Archive section on the SAWS website located here: https://apps.saws.org/Business_Center/Contractsol/archive.cfm

3. Will the Owner/Engineer please provide a copy of the current plan holders list?

Answer: This can be found under the solicitation on the SAWS website located here: https://apps.saws.org/Business_Center/Contractsol/planholderslist.cfm?id=3773

4. Will the Owner/Engineer please provide the anticipated NTP date for this project?

Answer: It is anticipated that the SAWS Board of Trustees will consider the award of contract for this project at their regular scheduled meeting in July 2020. If a contract is awarded, notice to proceed would follow the execution of a contract and a preconstruction meeting with the successful Contractor. Contractor shall assume an NTP date of July 27, 2020 with their submitted base line schedule. See the Supplemental Conditions, page SS-1.

5. Will the Owner/Engineer please confirm if there are any prevailing wage requirements for this job?

Answer: Yes, prevailing wage requirements are required as part of this project. Refer to Section 2.10 of the General Conditions in addition to the Wage Decisions included as part the bid documents.

6. Will the Owner/Engineer provide copies of existing CCTV files for pipe segments proposed rehabilitation?

Answer: Please see Response to Question # 1 and Clarification # 1 in Addendum 1.

7. SAWS has allowed the wall thickness design to be based on a Soil Modulus of 1000 psi in lieu of the stated 500 psi. We are requesting that the same appropriate allowance be made for this project.

Answer: The bid documents include a mechanism to allow for alternate soil modulus values as part of the CIPP design calculations submittal. Please refer to the Special Provisions to the Technical Specifications for Item 901.4.3.e.6 Materials (page SPTS-11).

8. The various diameters and quantities of point repairs called out on the plans does not match the bid form, the video indicates that even the point repairs called out would not be necessary to install the CIPP successfully. Will the need for point repairs be negotiable? Regarding the point repairs called out on the plans, could any be negotiable if the CIPP can still be installed within specifications without it?

Answer: The point repair quantities on the bid form match the overall estimated quantities shown on Sheet 2. As noted in Sewer Rehabilitation Note 17 on sheet 4, there are additional point repairs added to the overall project quantities due to the age of the available CCTV. Point repairs identified in the plans are based on locations where the existing defect may prevent successful installation of the CIPP liner. Contractor shall submit an RFI once pre-televising is completed with recommendations on installation of the point repairs for review by SAWS and engineer.

9. Can SAWS provide Storm Drain Map for Pecan Valley Location 8?

Answer: SAWS does not have storm drain maps for the Pecan Valley location.

10. Some locations have a parallel Wastewater Line or other Sanitary sewer in a convenient proximity to the sewer designated for CIPP. To the extent that the Contractor can demonstrate that diverting a portion or all the flow into a nearby line with adequate capacity, safely and with SAWS approval, would the contractor be allowed to divert flow in lieu of having the additional pump capacity on site?

Answer: The design team has coordinated with SAWS Master Planning and provided known available capacity in parallel lines in the plans. Contractor may submit an RFI with their request for use of a parallel line if not indicated in the plans.

11. Striping pay items are provided on the bid form, can the striping pay items also be used and apply to the parking lot striping (Location 5)? If no, then please give specific instructions as to the parking lot striping scope instead of "Contractor shall restripe parking lot". It would be best to allow the Contractor to be paid using the striping pay item provided in lieu of "NSPI".

Answer: Restriping of parking spaces will be required where pavement restoration is required for bypass piping within property at 1439 Roosevelt Avenue. Limits of striping are dependent on contractor's planned bypass piping and subsequent impacts to parking lot. Restriping of parking spaces shall be incidental to applicable bid items and will not be measured separately for payment.

12. Will all the paving required by COSA or SAWS be paid using to the paving pay items provided using the general limits provided? If no, then please provide street ratings so that the Prime contractors will know what streets will require curb to curb, block to block paving.

Answer: Pavement restoration shown in the plans is based on PCI ratings provided by COSA and reflects the paving requirements in the Utility Excavation Criteria Manual and anticipated excavations indicated in the plans. All pavement restoration shall be paid for using pay items provided in the bid documents. Final limits of pavement

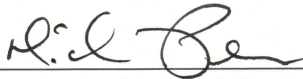
restoration shall be determined in the field in coordination with the SAWS Inspector and applicable ROW agency inspector in accordance with the applicable ROW agency permit and contractor's excavation limits.

13. It appears that the right-of-entry (ROE) agreement with the San Antonio Independent School District for Project Location 2 expires on 08/16/20, but the specifications indicate that bidders are to assume an NTP will not be issued until 07/27/20 when preparing the baseline schedule submitted with the bid. Will SAWS be renewing or revising this ROE agreement so that it will be valid during construction?

Answer: SAWS will coordinate with SAISD for an updated right-of-entry agreement for work in the summer of 2021.

14. Where laterals are indicated on the drawings as being reconnected with open cut excavation, will the contractor be allowed to reinstate them internally instead, or will they be required to be excavated at those locations?

Answer: At Location 5, service reconnects by open cut excavation are anticipated based on the condition of other service laterals that recently required repairs by SAWS Operation due to a void at the connection. Contractor shall submit an RFI once pre-televising is completed to request a change if CCTV shows that lateral connection to existing main does not have any voids and lateral can be successfully reconnected internally. At Location 8, service reconnect by open cut excavation is anticipated at the location of a potential point repair. Contractor shall submit an RFI after pre-televising concerning the proposed point repair and method of lateral reconnection.



Michael Persyn, P.E.
K Friese & Associates, Inc. (TBPE F-6535)



END OF ADDENDUM 2

This Addendum, including these three (3) pages, is eight (8) pages with attachments in its entirety.

Attachments: Bid Proposal (BP-1 through BP-4)
Plan sheet 2

BID PROPOSAL

PROPOSAL OF _____, a corporation

a partnership consisting of

an individual doing business as

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices to wit:

PLEASE SEE ATTACHED LIST OF BID ITEMS

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following:
Addendum Nos. _____

OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **450** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

Complete the additional requirements of the Bid Proposal which are included on the following pages.

Item No.	Spec No.	Bid Items Specification No. & Description	Unit	Qty.	Unit Price	Total Price
1	103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	320	\$	\$
2	103.3	REMOVE SIDEWALKS AND DRIVEWAYS (COSA SPEC)	SF	1346	\$	\$
3	103.4	REMOVE MISCELLANEOUS CONCRETE (COSA SPEC)	SF	2668	\$	\$
4	SP164	SEEDING FOR EROSION CONTROL (TXDOT SPEC)	SY	24	\$	\$
5	203	TACK COAT (COSA SPEC)	GAL	1208	\$	\$
6	205.2	HOT MIX ASPHALTIC PAVEMENT – TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY	376	\$	\$
7	205.2	HOT MIX ASPHALTIC PAVEMENT – TYPE B (12" COMPACTED DEPTH) (COSA SPEC)	SY	1169	\$	\$
8	205.4	HOT MIX ASPHALTIC PAVEMENT – TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	1374	\$	\$
9	205.4	HOT MIX ASPHALTIC PAVEMENT – TYPE C (3" COMPACTED DEPTH) (COSA SPEC)	SY	10696	\$	\$
10	208	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	1374	\$	\$
11	208	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (COSA SPEC)	SY	10696	\$	\$
12	300	ONE COURSE SURFACE TREATMENT (TXDOT SPEC)	SY	1245	\$	\$
13	305	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (4" DEPTH) (TXDOT SPEC)	SY	1245	\$	\$
14	340	HOT MIX ASPHALTIC PAVEMENT – TYPE C (4" COMPACTED DEPTH) (TXDOT SPEC)	SY	1245	\$	\$
15	340	HOT MIX ASPHALTIC PAVEMENT – TYPE B (12" COMPACTED DEPTH) (TXDOT SPEC)	SY	261	\$	\$
16	401	FLOWABLE FILL (TXDOT SPEC)	CY	122	\$	\$
17	500.1	CONCRETE CURB (COSA SPEC)	LF	320	\$	\$
18	502	CONCRETE SIDEWALK (COSA SPEC)	SY	143	\$	\$
19	503.1	PORTLAND CEMENT CONCRETE DRIVEWAY (COSA SPEC)	SY	21	\$	\$
20	505	CONCRETE RIP RAP (5" THICK)	SY	282	\$	\$
21	SP509.1	METAL BEAM GUARD RAIL	LF	57	\$	\$
22	SP515	TOPSOIL (4" THICK)	SY	152	\$	\$
23	516.1	BERMUDA SODDING (COSA SPEC)	SY	34	\$	\$
24	520	HYDROMULCHING	SY	528	\$	\$
25	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 1)	EA	1	\$	\$
26	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 2)	EA	1	\$	\$
27	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 3)	EA	1	\$	\$
28	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 4)	EA	1	\$	\$
29	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 5)	EA	1	\$	\$
30	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 6)	EA	1	\$	\$
31	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 7)	EA	1	\$	\$
32	SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 8)	EA	1	\$	\$
33	535.1	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE YELLOW LINE) (COSA SPEC)	LF	3170	\$	\$
34	535.2	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE WHITE LINE) (COSA SPEC)	LF	1520	\$	\$
35	535.7	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (24" WIDE WHITE LINE) (COSA SPEC)	LF	1110	\$	\$

Item No.	Spec No.	Bid Items Specification No. & Description	Unit	Qty.	Unit Price	Total Price
36	535.9	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (LEFT WHITE ARROW) (COSA SPEC)	EA	2	\$	\$
37	535.10	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (12" YELLOW LINE) (COSA SPEC)	LF	700	\$	\$
38	SP540	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC)	EA	8	\$	\$
39	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	197	\$	\$
40	662	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE WHITE LINE) (TXDOT SPEC)	LF	390	\$	\$
41	662	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE YELLOW LINE) (TXDOT SPEC)	LF	780	\$	\$
42	850	4' DIA. SANITARY SEWER STRUCTURE (DOGHOUSE)	EA	5	\$	\$
43	850	6' DIA. SANITARY SEWER STRUCTURE	EA	1	\$	\$
44	850	6' DIA. SANITARY SEWER DROP STRUCTURE	EA	4	\$	\$
45	850	6' DIA. SANITARY SEWER STRUCTURE (DOGHOUSE)	EA	2	\$	\$
46	850	8' DIA. SANITARY SEWER STRUCTURE	EA	1	\$	\$
47	850	PROJECT LOCATION 3 BYPASS SUCTION STRUCTURE	EA	1	\$	\$
48	850	PROJECT LOCATION 5 BYPASS SUCTION STRUCTURE	EA	1	\$	\$
49	851	ADJUST EXISTING MANHOLES (NEW WATERTIGHT RING AND COVER)	EA	26	\$	\$
50	SP854	TWO-WAY SANITARY SEWER CLEANOUT	EA	48	\$	\$
51	SP855	RECONSTRUCTION OF EXISTING MANHOLES	EA	17	\$	\$
52	SP855.1	RECONSTRUCTION OF EXISTING SEWER STRUCTURE	EA	2	\$	\$
53	858	CONCRETE ENCASUREMENT, CRADLES, SADDLES AND COLLARS	CY	9	\$	\$
54	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 1)	EA	1	\$	\$
55	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 2)	EA	1	\$	\$
56	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 3)	EA	1	\$	\$
57	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 4)	EA	1	\$	\$
58	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 5)	EA	1	\$	\$
59	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 6)	EA	1	\$	\$
60	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 7)	EA	1	\$	\$
61	SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 8)	EA	1	\$	\$
62	866	SEWER MAIN TELEVISION INSPECTION (8" TO 24")	LF	547	\$	\$
63	866	SEWER MAIN TELEVISION INSPECTION (27" AND LARGER)	LF	11809	\$	\$
64	866	SEWER MAIN TELEVISION INSPECTION (27" AND LARGER) - SIPHON	LF	94	\$	\$
65	SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (24")	LF	547	\$	\$
66	SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (27")	LF	289	\$	\$
67	SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (33")	LF	267	\$	\$
68	SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (36")	LF	4203	\$	\$
69	SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (42")	LF	1423	\$	\$
70	SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (48")	LF	5152	\$	\$

Item No.	Spec No.	Bid Items Specification No. & Description	Unit	Qty.	Unit Price	Total Price
71	SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (60")	LF	475	\$	\$
72	SS910.2	SEWER STRUCTURE REHABILITATION	SF	6786	\$	\$
73	SS910.3	SEWER STRUCTURE REHABILITATION -SIPHON BOX	SF	2060	\$	\$
74	SS1020	CPS ENERGY GAS SERVICE RELOCATION ALLOWANCE	ALW	1	\$ 20,000.00	\$ 20,000.00
75	SP1103.1	POINT REPAIR (24") (6'-10' DEPTH)	EA	1	\$	\$
76	SP1103.1	POINT REPAIR (27") (10'-14' DEPTH)	EA	1	\$	\$
77	SP1103.1	POINT REPAIR (33") (10'-14' DEPTH)	EA	1	\$	\$
78	SP1103.1	POINT REPAIR (36") (6'-10' DEPTH)	EA	1	\$	\$
79	SP1103.1	POINT REPAIR (36") (10'-14' DEPTH)	EA	4	\$	\$
80	SP1103.1	POINT REPAIR (42") (10'-14' DEPTH)	EA	1	\$	\$
81	SP1103.1	POINT REPAIR (48") (0'-6' DEPTH)	EA	1	\$	\$
82	SP1103.1	POINT REPAIR (48") (6'-10' DEPTH)	EA	4	\$	\$
83	SP1103.1	POINT REPAIR (48") (10'-14' DEPTH)	EA	6	\$	\$
84	SP1103.1	POINT REPAIR (60") (6'-10' DEPTH)	EA	1	\$	\$
85	SP1103.2	EXTRA LENGTH POINT REPAIRS (48") (ALL DEPTHS)	LF	8	\$	\$
86	SP1103.3	OBSTRUCTION REMOVAL BY REMOTE DEVICE (24" DIAMETER) (ALL DEPTHS)	EA	2	\$	\$
87	SP1103.3	OBSTRUCTION REMOVAL BY REMOTE DEVICE (27"-60" DIAMETER) (ALL DEPTHS)	EA	41	\$	\$
88	SP1109.1	SERVICE RECONNECTION (INTERNAL) (ALL DEPTHS & SIZES)	EA	46	\$	\$
89	SP1109.2	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION) (ALL DEPTHS & SIZES)	EA	7	\$	\$
SUBTOTAL (ITEMS 1 - 89)					\$	

90	100	MOBILIZATION AND DEMOBILIZATION, MAX 10% OF LINE ITEMS 1-89	LS	1	\$	\$
91	101	PREPARING ROW, MAX 5% OF LINE ITEMS 1-89	LS	1	\$	\$

Mobilization and Prep of ROW shall be limited to the maximum percentage shown. **If the percentage exceeds the allowable maximum stated for mobilization and or preparation of ROW, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.**

TOTAL BID PRICE					\$
(TO INCLUDE LINE ITEMS 1-89 AND 90-91)					

TOTAL ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
100	MOBILIZATION (MAX 10% OF THE TOTAL OF BID ITEMS)	LS	1
101	PREPARING RIGHT-OF-WAY (MAX 5% OF THE TOTAL OF BID ITEMS)	LS	1
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	320
103.3	REMOVE SIDEWALKS AND DRIVEWAYS (COSA SPEC)	SF	1346
103.4	REMOVE MISCELLANEOUS CONCRETE (COSA SPEC)	SF	2668
SP164	SEEDING FOR EROSION CONTROL (TXDOT SPEC)	SY	24
203	TACK COAT (COSA SPEC)	GAL	1208
205.2	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY	376
205.2	HOT MIX ASPHALTIC PAVEMENT - TYPE B (12" COMPACTED DEPTH) (COSA SPEC)	SY	1169
205.4	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	1374
205.4	HOT MIX ASPHALTIC PAVEMENT - TYPE C (3" COMPACTED DEPTH) (COSA SPEC)	SY	10696
208	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2' DEPTH) (COSA SPEC)	SY	1374
208	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3' DEPTH) (COSA SPEC)	SY	10696
300	ONE COURSE SURFACE TREATMENT (TXDOT SPEC)	SY	1245
305	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (4' DEPTH) (TXDOT SPEC)	SY	1245
340	HOT MIX ASPHALTIC PAVEMENT - TYPE C (4" COMPACTED DEPTH) (TXDOT SPEC)	SY	1245
340	HOT MIX ASPHALTIC PAVEMENT - TYPE B (12" COMPACTED DEPTH) (TXDOT SPEC)	SY	261
401	FLOWABLE FILL (TXDOT SPEC)	CY	122
500.1	CONCRETE CURB (COSA SPEC)	LF	320
502	CONCRETE SIDEWALK (COSA SPEC)	SY	143
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY (COSA SPEC)	SY	21
505	CONCRETE RIP RAP (5" THICK)	SY	282
SP509.1	METAL BEAM GUARD RAIL	LF	57
SP515	TOPSOIL (4" THICK)	SY	152
516.1	BERMUDA SODDING (COSA SPEC)	SY	34
520	HYDROMULCHING	SY	528
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 1)	EA	1
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 2)	EA	1
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 3)	EA	1
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 4)	EA	1
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 5)	EA	1
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 6)	EA	1
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 7)	EA	1
SP530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 8)	EA	1
535.1	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE YELLOW LINE) (COSA SPEC)	LF	3170
535.2	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE WHITE LINE) (COSA SPEC)	LF	1520
535.7	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (24" WIDE WHITE LINE) (COSA SPEC)	LF	1110
535.9	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (LEFT WHITE ARROW) (COSA SPEC)	EA	2
535.1	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (12" YELLOW LINE) (COSA SPEC)	LF	700
SP540	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC)	EA	8
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	197
662	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE WHITE LINE) (TXDOT SPEC)	LF	390
662	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4" WIDE YELLOW LINE) (TXDOT SPEC)	LF	780
850	4' DIA. SANITARY SEWER STRUCTURE (DOGHOUSE)	EA	5
850	6' DIA. SANITARY SEWER STRUCTURE	EA	1
850	6' DIA. SANITARY SEWER DROP STRUCTURE	EA	4
850	6' DIA. SANITARY SEWER STRUCTURE (DOGHOUSE)	EA	2
850	8' DIA. SANITARY SEWER STRUCTURE	EA	1
850	PROJECT LOCATION 3 BYPASS SUCTION STRUCTURE	EA	1
850	PROJECT LOCATION 5 BYPASS SUCTION STRUCTURE	EA	1
851	ADJUST EXISTING MANHOLES (NEW WATERTIGHT RING AND COVER)	EA	26
SP854	TWO-WAY SANITARY SEWER CLEANOUT	EA	48
SP855	RECONSTRUCTION OF EXISTING MANHOLES	EA	17
SP855.1	RECONSTRUCTION OF EXISTING SEWER STRUCTURE	EA	2
858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY	9
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 1)	EA	1
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 2)	EA	1
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 3)	EA	1
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 4)	EA	1
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 5)	EA	1
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 6)	EA	1
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 7)	EA	1
SP864-S2	BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 8)	EA	1
866	SEWER MAIN TELEVISION INSPECTION (8" TO 24")	LF	547
866	SEWER MAIN TELEVISION INSPECTION (27" AND LARGER)	LF	11809
866	SEWER MAIN TELEVISION INSPECTION (27" AND LARGER) - SIPHON	LF	94
SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (24")	LF	547
SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (27")	LF	289
SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (33")	LF	267
SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (36")	LF	4203
SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (42")	LF	1423

TOTAL ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (48")	LF	5152
SP901.1	INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (60")	LF	475
SS910.2	SEWER STRUCTURE REHABILITATION	SF	6786
SS910.3	SEWER STRUCTURE REHABILITATION -SIPHON BOX	SF	2060
SS1020	CPS ENERGY GAS SERVICE RELOCATION ALLOWANCE	ALW	1
SP1103.1	POINT REPAIR (24") (6'-10" DEPTH)	EA	1
SP1103.1	POINT REPAIR (27") (10'-14" DEPTH)	EA	1
SP1103.1	POINT REPAIR (33") (10'-14" DEPTH)	EA	1
SP1103.1	POINT REPAIR (36") (6'-10" DEPTH)	EA	1
SP1103.1	POINT REPAIR (36") (10'-14" DEPTH)	EA	4
SP1103.1	POINT REPAIR (42") (10'-14" DEPTH)	EA	1
SP1103.1	POINT REPAIR (48") (0'-6" DEPTH)	EA	4
SP1103.1	POINT REPAIR (48") (6'-10" DEPTH)	EA	4
SP1103.1	POINT REPAIR (48") (10'-14" DEPTH)	EA	6
SP1103.1	POINT REPAIR (60") (6'-10" DEPTH)	EA	1
SP1103.2	EXTRA LENGTH POINT REPAIRS (48") (ALL DEPTHS)	LF	8
SP1103.3	OBSTRUCTION REMOVAL BY REMOTE DEVICE (24" DIAMETER) (ALL DEPTHS)	EA	2
SP1103.3	OBSTRUCTION REMOVAL BY REMOTE DEVICE (27"-60" DIAMETER) (ALL DEPTHS)	EA	41
SP1109.1	SERVICE RECONNECTION (INTERNAL) (ALL DEPTHS & SIZES)	EA	46
SP1109.2	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION) (ALL DEPTHS & SIZES)	EA	7

SHT NO.	DESCRIPTION
1	COVER SHEET
2	INDEX AND QUANTITIES
3	GENERAL NOTES
4	PROJECT SPECIFIC NOTES
5	REHABILITATION TABLES
6	DETAILS
7	PROJECT LAYOUT 1
8	PROJECT LAYOUT 2
9	CIPP - PROJECT LOCATION 1
10	OVERALL BYPASS LAYOUT - PROJECT LOCATION 1
11	BYPASS - PROJECT LOCATION 1
12	BYPASS - PROJECT LOCATION 1
13	TCP - PROJECT LOCATION 1
14	TCP - PROJECT LOCATION 1
15	CIPP - PROJECT LOCATION 2
16	CIPP - PROJECT LOCATION 2
17	CIPP - PROJECT LOCATION 2
18	CIPP - PROJECT LOCATION 2
19	CIPP - PROJECT LOCATION 2
20	CIPP - PROJECT LOCATION 2
21	OVERALL BYPASS LAYOUT - PROJECT LOCATION 2
22	BYPASS - PROJECT LOCATION 2
23	BYPASS - PROJECT LOCATION 2
24	TCP - PROJECT LOCATION 2
25	TCP - PROJECT LOCATION 2
26	TCP - PROJECT LOCATION 2
27	TCP - PROJECT LOCATION 2
28	CIPP - PROJECT LOCATION 3
29	BYPASS - PROJECT LOCATION 3
30	TCP - PROJECT LOCATION 3
31	TCP - PROJECT LOCATION 3
32	CIPP - PROJECT LOCATION 4
33	OVERALL BYPASS LAYOUT - PROJECT LOCATION 4
34	BYPASS - PROJECT LOCATION 4
35	BYPASS - PROJECT LOCATION 4
36	TCP - PROJECT LOCATION 4
37	TCP - PROJECT LOCATION 4
38	CIPP - PROJECT LOCATION 5
39	CIPP - PROJECT LOCATION 5
40	STRUCTURAL DETAILS - PROJECT LOCATION 5
41	STRUCTURAL NOTES - PROJECT LOCATION 5
42	OVERALL BYPASS LAYOUT - PROJECT LOCATION 5
43	BYPASS - PROJECT LOCATION 5
44	BYPASS - PROJECT LOCATION 5
45	TCP - PROJECT LOCATION 5
46	TCP - PROJECT LOCATION 5
47	TCP - PROJECT LOCATION 5
48	TCP - PROJECT LOCATION 5
49	CIPP - PROJECT LOCATION 6
50	CIPP - PROJECT LOCATION 6
51	CIPP - PROJECT LOCATION 6
52	CIPP - PROJECT LOCATION 6
53	CIPP - PROJECT LOCATION 6
54	CIPP - PROJECT LOCATION 6
55	CIPP - PROJECT LOCATION 6
56	CIPP - PROJECT LOCATION 6
57	CIPP - PROJECT LOCATION 6
58	CIPP - PROJECT LOCATION 6
59	CIPP - PROJECT LOCATION 6
60	OVERALL BYPASS LAYOUT - PROJECT LOCATION 6
61	BYPASS - PROJECT LOCATION 6
62	BYPASS - PROJECT LOCATION 6
63	BYPASS - PROJECT LOCATION 6
64	BYPASS - PROJECT LOCATION 6
65	RESTORATION - PROJECT LOCATION 6
66	RESTORATION - PROJECT LOCATION 6
67	RESTORATION - PROJECT LOCATION 6
68	RESTORATION - PROJECT LOCATION 6
69	OVERALL TCP LAYOUT - PROJECT LOCATION 6
70	TCP - PHASE 1 LAYOUT - PROJECT LOCATION 6
71	TCP PHASE 1 - PROJECT LOCATION 6
72	TCP PHASE 1 - PROJECT LOCATION 6
73	TCP PHASE 1 - PROJECT LOCATION 6
74	TCP PHASE 1 - PROJECT LOCATION 6
75	TCP PHASE 1 - PROJECT LOCATION 6
76	TCP - PHASE 2 LAYOUT - PROJECT LOCATION 6
77	TCP PHASE 2 - PROJECT LOCATION 6
78	TCP PHASE 2 - PROJECT LOCATION 6
79	TCP PHASE 2 - PROJECT LOCATION 6
80	TCP PHASE 2 - PROJECT LOCATION 6
81	TCP PHASE 2 - PROJECT LOCATION 6
82	TCP - PHASE 3 LAYOUT - PROJECT LOCATION 6
83	TCP PHASE 3 - PROJECT LOCATION 6
84	TCP PHASE 3 - PROJECT LOCATION 6
85	TCP PHASE 3 - PROJECT LOCATION 6
86	TCP PHASE 3 - PROJECT LOCATION 6
87	TCP PHASE 3A - PROJECT LOCATION 6

SHT NO.	DESCRIPTION
88	DETOUR - PROJECT LOCATION 6
89	CIPP - PROJECT LOCATION 7
90	CIPP - PROJECT LOCATION 7
91	BYPASS - PROJECT LOCATION 7
92	TCP - PROJECT LOCATION 7
93	CIPP - PROJECT LOCATION 8
94	CIPP - PROJECT LOCATION 8
95	CIPP - PROJECT LOCATION 8
96	CIPP - PROJECT LOCATION 8
97	CIPP - PROJECT LOCATION 8
98	CIPP - PROJECT LOCATION 8
99	CIPP - PROJECT LOCATION 8
100	CIPP - PROJECT LOCATION 8
101	CIPP - PROJECT LOCATION 8
102	CIPP - PROJECT LOCATION 8
103	CIPP - PROJECT LOCATION 8
104	CIPP - PROJECT LOCATION 8
105	OVERALL BYPASS LAYOUT - PROJECT LOCATION 8
106	BYPASS - PROJECT LOCATION 8
107	BYPASS - PROJECT LOCATION 8
108	BYPASS - PROJECT LOCATION 8
109	BYPASS - PROJECT LOCATION 8
110	BYPASS - PROJECT LOCATION 8
111	BYPASS - PROJECT LOCATION 8
112	BYPASS - PROJECT LOCATION 8
113	RESTORATION - PROJECT LOCATION 8
114	RESTORATION - PROJECT LOCATION 8
115	RESTORATION - PROJECT LOCATION 8
116	RESTORATION - PROJECT LOCATION 8
117	RESTORATION - PROJECT LOCATION 8
118	OVERALL TCP LAYOUT - PROJECT LOCATION 8
119	TCP PHASE 1 - PROJECT LOCATION 8
120	TCP PHASE 1 - PROJECT LOCATION 8
121	TCP PHASE 1 - PROJECT LOCATION 8
122	TCP PHASE 1 - PROJECT LOCATION 8
123	TCP PHASE 2 - PROJECT LOCATION 8
124	TCP PHASE 2 - PROJECT LOCATION 8
125	TCP PHASE 2 - PROJECT LOCATION 8
126	TCP PHASE 2 - PROJECT LOCATION 8
127	TCP PHASE 3 - PROJECT LOCATION 8
128	TCP PHASE 3 - PROJECT LOCATION 8
129	TCP PHASE 3 - PROJECT LOCATION 8
130	TCP PHASE 3 - PROJECT LOCATION 8
131	TCP PHASE 3 - PROJECT LOCATION 8
132	DETOUR PHASE 3 - PROJECT LOCATION 8
133	DETOUR PHASE 3 - PROJECT LOCATION 8
134	DETAILS - EROSION CONTROLS
135	DETAILS - EROSION CONTROLS
136	DETAILS - EROSION CONTROLS
137	DETAILS - TREE PROTECTION
138	DETAILS - TREE PROTECTION
139	DETAILS - TXDOT BC(1)-14
140	DETAILS - TXDOT BC(2)-14
141	DETAILS - TXDOT BC(3)-14
142	DETAILS - TXDOT BC(4)-14
143	DETAILS - TXDOT BC(5)-14
144	DETAILS - TXDOT BC(6)-14
145	DETAILS - TXDOT BC(7)-14
146	DETAILS - TXDOT BC(8)-14
147	DETAILS - TXDOT BC(9)-14
148	DETAILS - TXDOT BC(10)-14
149	DETAILS - TXDOT BC(11)-14
150	DETAILS - TXDOT BC(12)-14
151	DETAILS - AS-BUILT DJ-4953
152	DETAILS - AS-BUILT DJ-4953
153	DETAILS - AS-BUILT DJ-1812
154	DETAILS - AS-BUILT DJ-4316A
155	DETAILS - AS-BUILT 95-4501
156	DETAILS - AS-BUILT DJ-3033
157	DETAILS - AS-BUILT DJ-3030

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No.	Revision	Drawn	Approved	Date
Δ	ADDENDUM NO.2	TK	MP	5/5/2020
Δ	ADDENDUM NO.1	TK	MP	4/23/2020

REVISIONS

DEVELOPER: _____

CONT. _____ **BUDGET PROJ.** _____

SUBMITTED _____

APPROVED _____

MAP No. _____ **SHEET** 2

SECT. No. _____ **OF** 157

DR. _____ **CK.** _____ **JOB No.** 18-4535

BPC CENTRAL LD PACKAGE 1

SHEET INDEX AND QUANTITIES

0632_INDEX-QUANTITIES.dgn modified by kfriese on 5/5/2020 - 11:27:49 AM