

BPC East Sewershed Package 4B Solicitation Number: CO-00454-JP Job No.: 21-4508

ADDENDUM 01 November 3, 2021

To Bidder 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.

CHANGES TO SPECIFICATIONS

- 1. **Table of Contents** Add the following to the end of the Special Specifications section: "Item 7185 Abandonment of Sanitary Sewer.......7185-1"
- Invitation to Bidders Remove the first sentence within the Invitation to Bidders and replace with:
 "Sealed bids are requested by the San Antonio Water System for construction of approximately 4,427 LF of 8-inch to 24-inch sewer mains via Open Cut, 405 LF of 8-inch sewer main via Pipe Bursting, and 743 LF of 18-inch sewer main via CIPP for the BPC East Sewershed Package 4B Project, SAWS Job No. 21-4508."
- 3. **Bid Proposal** Remove Bid Proposal and replace with the revised Bid Proposal attached to this Addendum. The revised Bid Proposal includes the addition of Bid Items #31, #71, #79, and #81 and modifications to Bid Items #46, #76, and #80. This version of the bid proposal should be used by bidders when submitting a bid for this project. Failure to use the revised bid proposal may result in the bid being rejected.
- 4. **Statement of Bidder's Experience** Remove the Statement of Bidder's Experience and replace with the Statement of Bidder's Experience as attached to this Addendum.
- Special Conditions Remove Project Milestone #2 and replace with the following:
 "2. Project Sites N. WW White Rd, BN31, Site 11, and Site Line N should be completed first. Project Site Line N must reach final completion by June 30, 2022."

Add the following language at the end of the Project Milestones section: "n. "Project Site Line N" – 28 Calendar Days (substantial completion)
Final completion 30 calendar days after substantial completion."

- 6. **Special Specifications** Add Special Specification 7185 "Abandonment of Sanitary Sewer" attached to this Addendum to the bid documents. Special Specification 7185 is applicable to sewer pipeline and manhole abandonment work inside the State's right-of-way along North WW White Rd as indicated on sheet 54.
- 7. **Rights of Entry** Add South Park Mall Realty LLC ROE Exhibits attached to this Addendum to the end of the section.

CHANGES TO PLANS

- 1. Changes to all sheets The total number of sheets is updated from 91 to 94 sheets.
- 2. **Sheet 2 Index of Drawings –** Remove Sheet 2, Index of Drawings, and replace with revised Sheet 2 attached to this Addendum.
 - a. Addition of Sheets 83, 84, 85 (Line N).
- 3. **Sheet 6 Summary of Quantities** Remove Sheet 6, Summary of Quantities, and replace with revised Sheet 6 attached to this Addendum.
 - a. Updated Summary of Quantities includes the addition of Bid Items #31, #71, #79, and #81 and modifications to Bid Items #46, #76, and #80.
- 4. **Sheet 54 WW White Rd (North) Plan and Profile** Remove Sheet 54, WW White Rd (North) Plan and Profile, and replace with revised Sheet 54 attached to this Addendum.
- 5. Sheet 83 Line N South Park Mall Overall Project Location and Control Suggested Bypass Plan Add Sheet 83 attached to this Addendum.
- 6. Sheet 84 Line N South Park Mall Plan (STA 1+00 TO STA 5+00) Add Sheet 84 attached to this Addendum.
- 7. Sheet 85 Line N South Park Mall Plan (STA 5+00 TO STA 8+42.94) Add Sheet 85 attached to this Addendum.
- 8. **Sheets 86 through 94** The sheet numbering on Sheets 86 94 shall be updated based upon new sheet numbering as shown on Sheet 2 Index of Drawings attached to this Addendum.

CLARIFICATIONS

1. The estimated cost for this project has changed to \$4,577,322.05 which is also now reflected on SAWS website at the following:

https://apps.saws.org/Business_Center/ContractSol/Drill.cfm?id=4032&View=Yes

END OF ADDENDUM

This Addendum, including these three (3) pages, is twenty-five (25) pages in its entirety.

Attachments:

- 1- Revised Bid Proposal
- 2- Revised Statement of Bidder's Experience
- 3- Special Specification 7185 Abandonment of Sanitary Sewer
- 4- South Park Mall Realty LLC ROE Exhibits
- 5- Revised Plan Sheets (2, 6, 54)
- 6- New Plan Sheets (83, 84, 85)



Digitally Signed 11/03/2021

Ian P. Toohey, P.E.



Boby Aboesono, P.E. Arcadis U.S. (TBPE F-533)



Curt Raabe, P.E.

CDS Muery (TBPE F-1733)

BPC East Sewershed Package 4B Solicitation No. : CO-00454 Job No(s): 21-4508

PF	ROPOSAL OF, a corporation
ар	partnership consisting of
an	individual doing business as
Pu as	HE SAN ANTONIO WATER SYSTEM: Irsuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials specified and perform the work required for the project as specified, in accordance with the Plans and pecifications for the following prices in the bid proposal to wit:
PL	EASE 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 No(s).
ow	NER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.
and Pro	bidder offers to construct the Project in accordance with the Contract Documents for the contract price, to complete the Project within 365 calendar days after the start date, as set forth in the Authorization to ceed. The bidder understands and accepts the provisions of the contract Documents relating to idated damages of the project if not completed on time.
Con	plete the additional requirements of the Bid Proposal which are included on the following pages.
Sta	tement on President's Executive Orders
	your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any eding similar executive orders (Numbers 10925 and 11114)? Yes No
Tex	as Government Code Chapter 2274 Verifications
(1)	Are you, Contractor, held or controlled by individuals who are citizens of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No
(2)	Are you, Contractor, held or controlled by a company or other entity, including a governmental entity, that is owned or controlled by citizens of or directly controlled by the government of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes \(\bigcap \) No \(\bigcap \)
(3)	Are you, Contractor, headquartered in China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
1	103.1	Remove Concrete Curb (COSA Spec)	LF	376	\$	\$
2	103.3	Remove Sidewalk & Driveway (COSA Spec)	SF	3030	\$	\$
3	103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	20	\$	\$
4	202	Prime Coat (COSA Spec)	GAL	514	\$	\$
5	203	Tack Coat (COSA Spec)	GAL	1253	\$	\$
6	205.2	Hot Mix Asphaltic Pavement- Type B (10" Comp. Depth) (COSA Spec)	SY	8	\$	\$
7	205.2	Hot Mix Asphaltic Pavement- Type B (12.5" Comp. Depth) (COSA Spec)	SY	56	\$	\$
8	205.4	Hot Mix Asphaltic Pavement- Type D (2" Comp. Depth) (COSA Spec)	SY	10718	\$	\$
9	206.1	Asphalt Treated Base (10" Comp. Depth) (COSA Spec)	SY	1355	\$	\$
10	208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (2 inches depth), (COSA Spec)	SY	10296	\$	\$
11	413.1	Flowable Fill (low strength) (6") (COSA Spec)	CY	93	\$	\$
12	500	Concrete Curb (COSA Spec)	LF	46	\$	\$
13	500	Concrete Curb and Gutter (COSA Spec)	LF	360	\$	\$
14	502	Concrete Sidewalk (COSA Spec)	SY	14	\$	\$
15	503	Asphalt Concrete Driveway (COSA Spec)	SY	132	\$	\$
16	503	Concrete Driveway (COSA SPEC)	SY	3	\$	\$
17	503	Portland Cement Concrete Driveway - Commercial (COSA Spec)	SY	85	\$	\$

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
18	503	Portland Cement Concrete Driveway (COSA Spec)	SY	314	\$	\$
19	515	Topsoil	CY	3	\$	\$
20	516.1	Bermuda Sodding	SY	59	\$	\$
21	516.2	St. Augustine Sodding	SY	101	\$	\$
22	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 11	LS	1	\$	\$
23	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 15A	LS	1	\$	\$
24	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 17	LS	1	\$	\$
25	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 20	LS	1	\$	\$
26	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 25	LS	1	\$	\$
27	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 28	LS	1	\$	\$
28	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 34	LS	1	\$	\$
29	530	Barricades, Signs, and Traffic Handling, (COSA Spec) (N. WW White Rd.)	LS	1	\$	\$
30	530	Barricades, Signs, and Traffic Handling, (COSA Spec) Site BN31	LS	1	\$	\$
31	530	Barricades, Signs, and Traffic Handling, (COSA Spec) Line N	LS	1	\$	\$
32	535.1	4-inch Wide Yellow Line (COSA Spec)	LF	756	\$	\$
33	540.7	Temporary Construction Perimeter Fence (Install/Remove) Site 17	LS	1	\$	\$

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
34	540.7	Temporary Construction Perimeter Fence (Install/Remove) (N. WW White Rd.)	LS	1	\$	\$
35	550	Trench Excavation Safety Protection	LF	4427	\$	\$
36	552.1	Removal and Replacement of Existing Irrigation System (COSA Spec)	LS	1	\$	\$
37	834	Remove and Replace Fire Hydrant	EA	1	\$	\$
38	848	8" PVC SDR-26 (160 PSI) Sewer Line (0'-6')	LF	281	\$	\$
39	848	8" PVC SDR-26 (160 PSI) Sewer Line (6'-14')	LF	1477	\$	\$
40	848	8" PVC SDR-26 Sewer Line (0'-6')	LF	867	\$	\$
41	848	8" PVC SDR-26 Sewer Line (6'-14')	LF	216	\$	\$
42	848	10" PVC SDR-26 (160 PSI) Sewer Line (6'-14')	LF	926	\$	\$
43	848	10" PVC SDR-26 Sewer Line (6'-14')	LF	432	\$	\$
44	848	12" PVC SDR-26 Sewer Line (6'-14')	LF	185	\$	\$
45	848	24" PVC SDR-26 Sewer Line (6'-14')	LF	43	\$	\$
46	851	Manhole Adjustment	EA	9	\$	\$
47	852	External Drop Connection	EA	3	\$	\$
48	852	Sanitary Sewer Manhole 4' Dia. (0'-6')	EA	19	\$	\$
49	852	Extra Depth Manhole (>6')	VF	26	\$	\$
50	852.1	Sanitary Sewer Doghouse Manhole 4' Dia. (0'-6')	EA	1	\$	\$
51	854	Two-Way Sanitary Sewer Clean-Out	EA	40	\$	\$
52	854	Sanitary Sewer Laterals (SDR 26-2241, 160 PSI)	LF	345	\$	\$
53	855	Reconstruction of Existing 4' Dia. Manhole	EA	3	\$	\$

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
54	858	Concrete Encasement, Cradles, Saddles and Collars	CY	41	\$	\$
55	859	Reconstruction of Existing Manholes using Polymer Concrete Manholes - 108" x 108" Vault	EA	3	\$	\$
56	859	Reconstruction of Existing Manholes using Polymer Concrete Manholes - 96" Dia. Manhole	EA	3	\$	\$
57	860	Vertical Stacks	VF	8	\$	\$
58	862	Abandon Existing Sewer Line Site 25	LS	1	\$	\$
59	862	Abandon Existing Sewer Lines Site 28	LS	1	\$	\$
60	862	Abandon Existing Sewer Lines Site BN31	LS	1	\$	\$
61	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 11	LS	1	\$	\$
62	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 15	LS	1	\$	\$
63	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 17	LS	1	\$	\$
64	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 20	LS	1	\$	\$
65	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 25	LS	1	\$	\$
66	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 27	LS	1	\$	\$
67	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 28	LS	1	\$	\$
68	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 34	LS	1	\$	\$

	ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
	69	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") (N. WW White Rd.)	LS	1	\$	\$
	70	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site BN31	LS	1	\$	\$
◮	71	864-S1	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Line N	LS	1	\$	\$
	72	864-S2	Bypass Pumping Large Diameter, (>=24") Site 35	LS	1	\$	\$
	73	864-S2	Bypass Pumping Large Diameter, (>=24") Site 36	LS	1	\$	\$
	74	864-S2	Bypass Pumping Large Diameter, (>=24") Site 37	LS	1	\$	\$
	75	866	Sewer Main Television Inspection - 8" through 15"	LF	4263	\$	\$
◮	76	866	Sewer Main Television Inspection - 15" through 24"	LF	786	\$	\$
	77	900	Pipe Bursting - 8" Sanitary Sewer Main (5'-7' Depth)	LF	145	\$	\$
	78	900	Pipe Bursting - 8" Sanitary Sewer Main (8'-15' Depth)	LF	260	\$	\$
A	79	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 18" (All Depths)	LF	743	\$	\$
▲	80	910	Rehabilitation of Existing 4' Dia. Manhole	VF	97	\$	\$
◬	81	1103	Obstruction Removal - Remote Device	EA	2	\$	\$
	82	1109	Service Reconnections - Open Cut	EA	3	\$	\$
	83	SS 2010	Fence Removal and Replacement Site 25	LS	1	\$	\$

BPC East Sewershed Package 4B

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
84	SS 2010	Fence Removal and Replacement (N. WW White Rd.)	LS	1	\$	\$
85	SS 3001	Power Pole Bracing	EA	12	\$	\$
86	SS 3300	Sanitary Sewer Private Laterals (4"-6") (Including COSA Permit & Licensed Plumber)	LF	1775	\$	\$
87	SS 801	Tree Protection	EA	2	\$	\$
88	SS 802	Tree Pruning	EA	1	\$	\$
89	1	Grout Abandonment Sewer Main	LF	432	\$	\$
	SUBTOTAL (ITEMS 1-89			\$		
90		ZATION AND DEMOBILIZA X 10% OF LINE ITEMS 1-8	•	L.S.	\$	\$
91	PREP	ARING ROW, MAX 5% OF I	LINE	L.S.	\$	\$

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

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

STATEMENT OF BIDDER'S EXPERIENCE

BPC East Sewershed Package 4B SAWS Job No. 21-4508 SAWS Solicitation No. CO-00454

A. Please complete **all** the fields below.

Bidder must answer all questions completely and all information must be clear, accurate and comprehensive.

comprehensive.

If all fields are not completed, the Bid is at risk for being rejected due to non-responsiveness.

It is not acceptable to indicate "See attached".

Project A-1 is to have been completed by the Bidder.

□ Project A-1 demonstrates construction of a minimum of 3,000 LF by Open Cut construction for sanitary sewer mains 8-inches and larger.

□ Project A-1 was completed between 2016 and 2021.

Project A-1 Description

Name of Project: _______ Location: _______

Scope of Work: ________

Pipe Sizes: _______ Pipe Lengths: _______

Owner Name: _______ Owner Title: _______

Owner Phone Number: _______ Construction Cost: _______

Project Start Date: _______ Project End Date: ________

Additional Information: ________

*Owner is defined as entity the Bidder performed work for (i.e. City, County, Utility, State, etc.). Bidder must provide a specific name with contact information that has been previously verified. The design engineer may not serve as reference for the Bidder.

Projec	ct A-2 is to have been completed by the	Bidder.		
	Project A-2 demonstrates construction of a minimum of 3,000 LF by Open Cut			
	construction for sanitary sewer mains 8-	inches and larger.		
☐ Project A-2 was completed between 2016 and 2021.				
☐ Project A-2 shall be different than Project A-1.				
Projec	ct A-2 Description			
Name	of Project:	Location:		
Scope	of Work:			
Pipe S	Sizes:	Pipe Lengths:		
Owner	r Name:	Owner Title:		
Owner Phone Number:		Construction Cost:		
Project Start Date:		Project End Date:		
A dditi	ional Information			

^{*}Owner is defined as entity the Bidder performed work for (i.e. City, County, Utility, State, etc.). Bidder must provide a specific name with contact information that has been previously verified. The design engineer may not serve as reference for the Bidder.

Projec	ct A-3 is to have been comple	ted by the Bidder or Subcontractor.		
	☐ Project A-3 demonstrates construction of a minimum of 500 LF by Pipe Bursting			
	construction for sanitary sewe	er mains 8-inches and larger.		
	☐ Project A-3 was completed between 2016 and 2021.			
Project A-3 may be the same as Project A-1 or Project A-2, if project meets all experience requirements listed.				
,	t A-3 Description			
	of Project:	Location:		
Scope	of Work:			
Pipe Si	izes:	Pipe Lengths:		
Owner	· Name:	Owner Title:		
Owner Phone Number:		Construction Cost:		
Project	t Start Date:	Project End Date:		
Δdditi	onal Information:	•		

^{*}Owner is defined as entity the Bidder performed work for (i.e. City, County, Utility, State, etc.). Bidder must provide a specific name with contact information that has been previously verified. The design engineer may not serve as reference for the Bidder.

Project A-4 is to have been comp	oleted by the Bidder or Subcontractor.	
□ Project A-4 demonstrates construction of a minimum of 500 LF by CIPP of		
for sanitary sewer mains 8-	inches and larger.	
construction for sanitary se	ewer mains 8-inches and larger.	
☐ Project A-4 was completed between 2016 and 2021.		
Project A-4 Description		
Name of Project:	Location	
<u> </u>	Location:	
Scope of Work:		
Pipe Sizes:	Pipe Lengths:	
Owner Name:	Owner Title:	
Owner Phone Number:	Construction Cost:	
Project Start Date:	Project End Date:	
Additional Information:		

^{*}Owner is defined as entity the Bidder performed work for (i.e. City, County, Utility, State, etc.). Bidder must provide a specific name with contact information that has been previously verified. The design engineer may not serve as reference for the Bidder.

Special Specification 7185

Abandonment of Sanitary Sewer

Mains

1. DESCRIPTION

1.1. **Scope of Work.** Provide and install complete sanitary sewer construction and adjustments in conformity with the details shown on the plans, as described herein, in compliance with the Texas Department of Transportation's Utility Accommodation Policy (UAP)(Title 43, T.A.C., Sections 21.31-21.55) or as directed.

Reference specifications of the American Society for Testing and Materials (ASTM), American Water Works Association (AWWA) and American National Standards Institute (ANSI) will mean the latest standard in effect on the date of the proposal.

1.2. Definitions

- 1.2.1. <u>Sanitary Sewer Main.</u> Sanitary Sewer Main is defined as that portion of the sanitary sewer system which collects the wastewater from the service laterals, including stub outs from the nearest manhole, to the point of final destination.
- 1.2.2. Grouting of Sewer Mains. This item will govern the grouting of existing sewer mains with diameter of larger than 4-in. for the purposes of abandonment underneath roadways, paved areas, and at other designated locations. The location of this Work is as shown on the Contract Document plans and/or as encountered in the field during construction. The Contractor must, unless otherwise specified, furnish all labor, materials, equipment, tools and all other appurtenances necessary to abandon sewer lines segments in place by filling them with flowable cementitious low strength grout including plugs, bulkheads, excavation and backfill at locations as required to completely fill the line to be abandoned in place to protect against future collapse of the line.

2. MATERIALS

All materials furnished for this project will be new. A manufacturer's certificate of compliance will be acceptable for quality control.

2.1. **Grout.** When shown on the plans for various applications, the grout is to be a cement/sand/water mixture as approved. It will have a consistency such that it will flow into and completely fill all voids.

2.2. Submittals.

- 1. Proposed Mix Design Report for grout.
- 2. Submit manufacturers data for proposed plugs and detail of bulkhead.
- 3. Technical information for equipment and operations procedures including projected injection rate, grout pressure, method of controlling grout pressure, bulkhead and vent design and number of stages of grout application.
- 4. Submit project specific plan for abandonment at least 15 days prior to commencing grouting activities, describe proposed sequence, access points and other information pertinent for completion of Work.
- 5. Cement-based grout/flowable fill with self-leveling and non-shrink characteristics.
- 6. Unconfined compressive strength: Minimum 100 psi at 56 days as determined based on

average three tests for same placement. Present at least three acceptable strength tests for proposed mix design in mix design report.

3. CONSTRUCTION

- 3.1. **Abandon Sewer Lines.** Abandonment of existing sewer lines will be in accordance with the requirements under the "Grouting of Sewer Mains" section of this Special Specification.
- 3.2. **Grouting of Sewer Mains.** Abandoning and grouting of sewer lines must not occur until all existing sewer mains and services have been transferred to a relocated sewer line or another line as designated in the Contract Documents. The Contractor will be responsible for the satisfactory coordination of the pipe abandonments with other construction and activities in the area. Delays in work resulting from lack of coordination must not be cause for additional compensation. Any work involving or impacting asbestos concrete pipe must be in accordance with the specifications.

Remove or pump out any free standing wastewater in compliance with TCEQ and EARZ requirements prior to starting grout placement.

Place grout/flowable fill using concrete or grout pumps capable of continuous delivery at planned placement rate to fill volume between placement points not to exceed 500 linear feet at a time. Pump grout/flowable fill through bulkheads constructed for placement of PVC pipes or other methods to contain grout in line to be abandoned. These pipes will be used for injection points or vents during placement. Place grout/flowable fill under pressure into properly vented open system until grout emerges from vent pipes indicating pipe is completely filled. Pumping must be completed under sufficient pressure to overcome friction and to fill sewer main from downstream to upstream end. Remediate areas where grout/flowable fill did not fill voids in sewer main by pressure grouting from inside sewer main or from surface if necessary. Plug each end of the sewer main being abandoned. Ensure that concrete is placed around plug/bulkhead and around pipe including bedding area, such that it is not penetrable by groundwater and that bedding at this location is not a conduit for groundwater. The method of installation must meet the requirement of completely filling the existing sewer main and any voids adjacent to it.

Backfill to grade above pipe left in place. Place and compact backfill in compliance with the Special Specifications.

Remove, transport, and dispose of spoils. Spoils including pipe, unused grout/flowable fill and other unsuitable materials must be hauled to a facility permitted to accept the material. The abandonment method must provide for the release of air. When intermediate points are required to be constructed for the abandonment of the system, they must be a part of the abandonment project process. The method must provide for the isolation of sewer mains to be grouted from sewer mains that are abandoned in place without grouting as shown on the plans.

Mains to be abandoned must be grouted only if required by the contract documents and payment as per these specifications is provided.

3.3. **Abandon Manhole.** Manholes existing on sewer lines replaced by new sewer piping and which are no longer needed for the revised sewer network are to be classified as "Abandon Manhole". Work required on an abandoned manhole is to consist of installing a permanent concrete plug on all pipes within the manhole, removing the top of the manhole (e.g., cover, frame, grade rings, cone, etc.) to an elevation of 2-ft. below proposed subgrade or existing grade, whichever is the lower elevation, and

backfilling the manhole with a grout material as specified. The ring and cover of the manholes are to be removed and delivered to Sanitary Sewer Owners facility designated by the Engineer. If directed, drainage holes are to be drilled in the bottom of manhole walls prior to backfilling.

4. MEASUREMENT

Grouting of Abandoned Sewer Mains

All type of pipe abandonment with grout, including asbestos-concrete pipe, will be paid for at the contract bid price per linear foot for all size diameter of pipe, irrespective of the depth of the main, which will include the cost of removing the content within the pipe, cleaning, grouting, plugging, capping and abandoning all pipe, pipe bend section and all other appurtenances, and for dewatering, trenching, excavation and backfill, removal, transportation and disposal and all material or work necessary to properly abandon the pipe. In addition, the abandonment and grouting work for the sewer mains will also include grouting and abandonment of existing sewer manhole that will no longer be in service a result to the sewer main abandonment. No separate measurement will be done for work to abandon and grout existing sewer manhole as described in this specification.

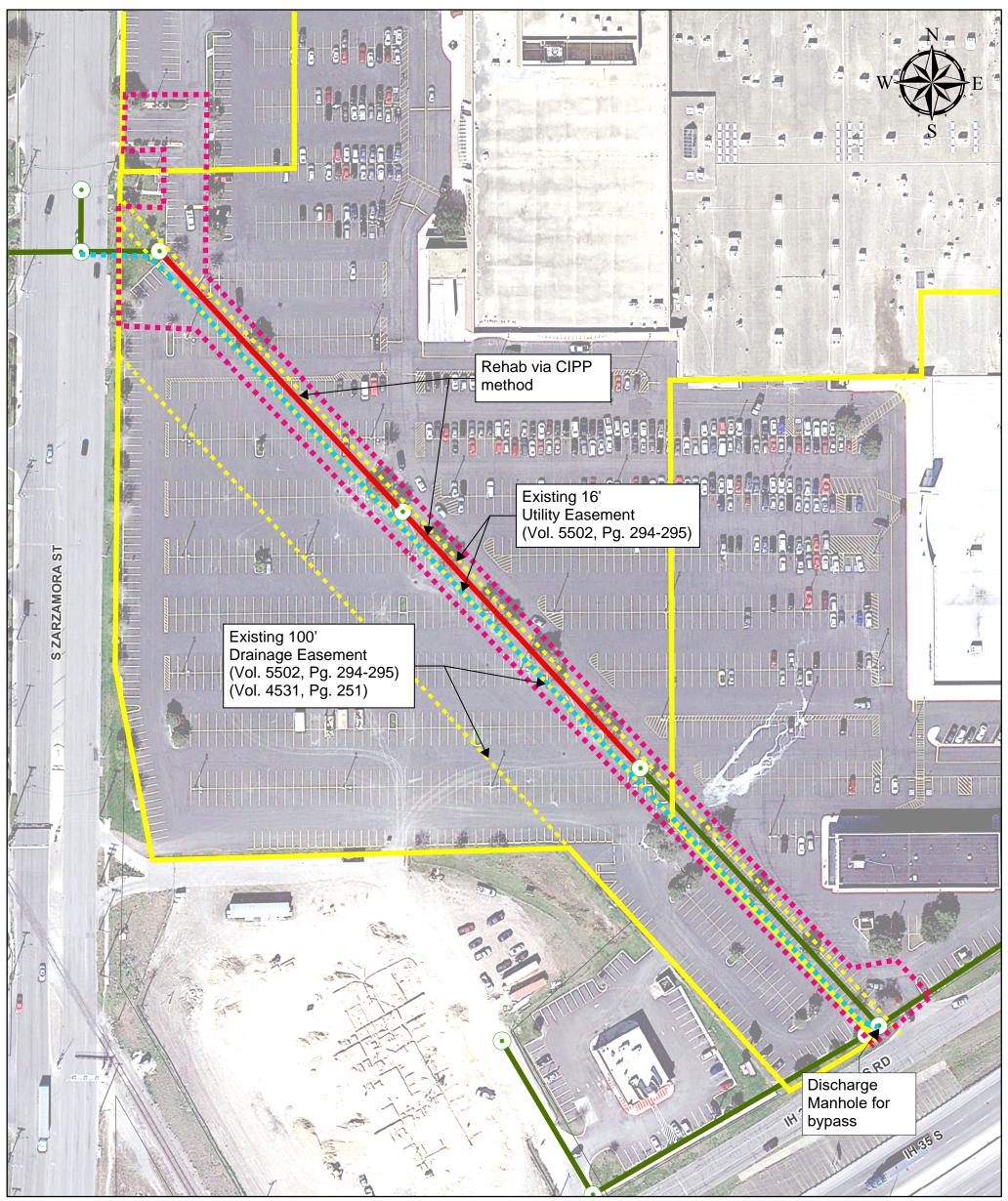
5. PAYMENT

Grouting of Sewer Mains. Payment for "Grout Abandonment Sewer Main" will be made on the contract unit price per linear foot per each size diameter of pipe complete in place at locations shown on the plans. The item shall also include abandonment and grouting work for existing sewer manhole to be abandoned. Said price will be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work described in this specification.



EXHIBIT "B"

BPC East Sewershed Package 4B 21-4508



Legend Sewer Main to be rehabilitated Existing Main Property Line Manhole Bypass Route Access Area

Existing Easement

Summary:

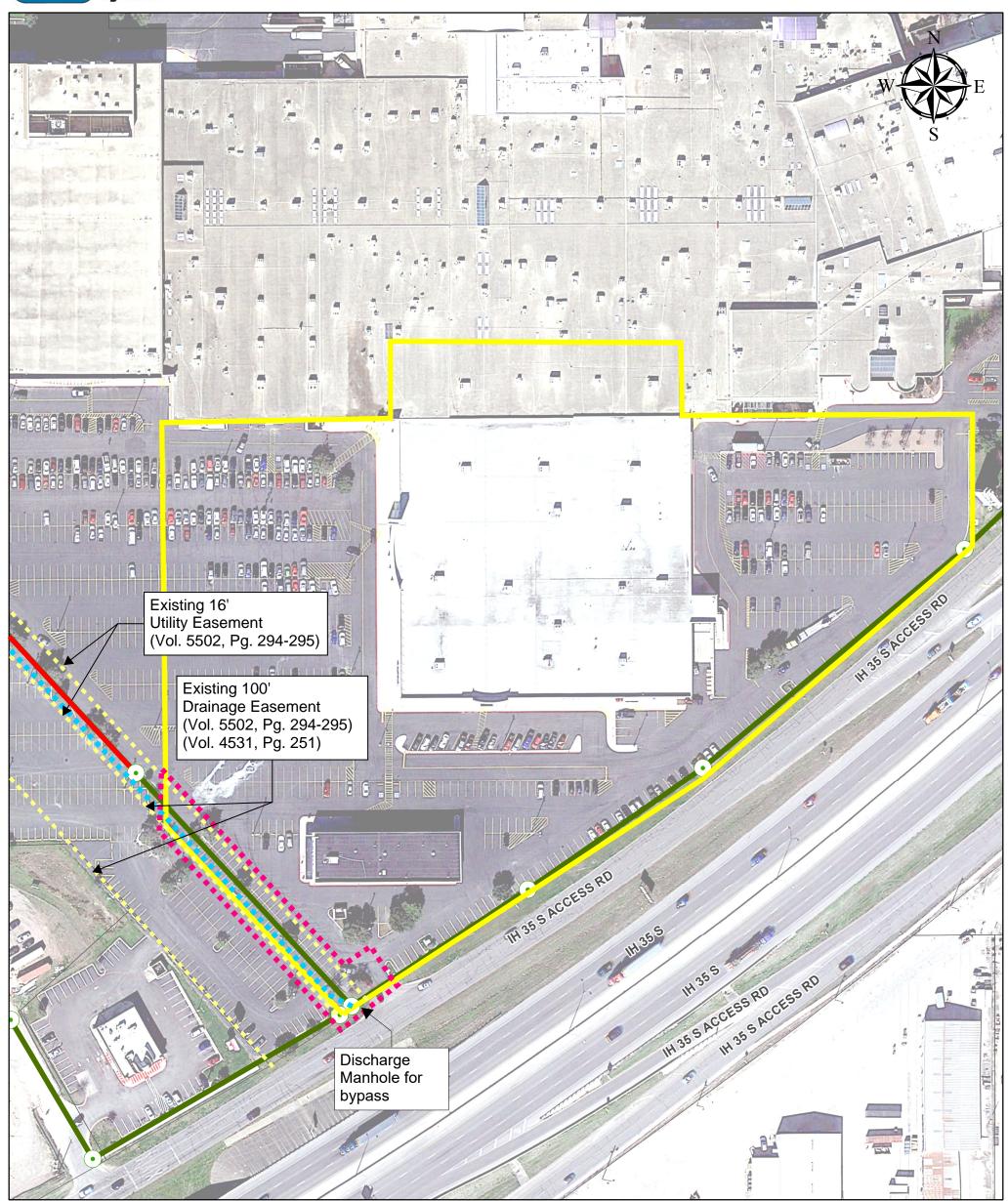
Right of Entry for access area. Sewer pipeline to be rehabilitated via cured in place pipe (CIPP) method. Owner: SOUTH PARK MALL
REALTY LLC & SOUTH PARK CH
LLC & SOUTH PARK NASSIM LLC
Address: 2310 SW MILITARY DR
& 2400 SW MILITARY DR
BCAD ID: 992063 & 440729
Legal: NCB 12328 BLOCK LOT
W IRR 325.99 FT OF 2 2012
SPLIT PER LEASE AGREEMENT
& NCB 9503 BLK LOT 18,19, 20 &

21



EXHIBIT "B"

BPC East Sewershed Package 4B 21-4508





Sewer Main to be rehabilitated

Existing Main

Property Line

Manhole

Bypass Route

Access Area

Existing Easement

Summary:

Right of Entry for access area. Sewer pipeline to be rehabilitated via CIPP method. Owner: SOUTH PARK MALL REALTY LLC & SOUTH PARK CH LLC & SOUTH PARK

NASSIM LLC

Address: SW MILITARY DR

BCAD ID: 1174171

Legal: NCB 12328 BLOCK LOT

S IRR 496.88 FT OF 2

	GENERAL				
SHT. NO.	DESCRIPTION				
01	COVER				
02	INDEX OF DRAWINGS				
03	ABBREVIATIONS				
04	SAWS GENERAL NOTES				
05	GENERAL CIVIL NOTES AND LEGEND				
06	SUMMARY OF QUANTITIES				
07	SITE MAPS & CONTROL POINTS 1				
08	SITE MAPS & CONTROL POINTS 2				
09	SITE MAPS & CONTROL POINTS 3				
10	SITE MAPS & CONTROL POINTS 4				
11	WW WHITE (NORTH) SURVEY CONTROL				
12	LAN CONTROL SHEET				

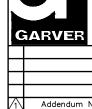
SHT. NO.	DESCRIPTION
13	SITE 11-COMPKEY 997074 STA.10+00-11+12 PIPE BURSTING
14	SITE 11-COMPKEY 997074-BYPASS PLAN - PIPE BURSTING
15	SITE 11-COMPKEY 997074-TRAFFIC CONTROL PLAN - PIPE BURSTING
16	SITE 15 -COMPKEY 1049932 & 1052004 REPLACEMENT & POINT REPAIR
17	SITE 15 -COMPKEY 1052004 STA.14+00-17+68 REPLACEMENT & POINT REPAIR
18	SITE 15 -COMPKEY 1049932 & 1052004 BYPASS PLAN REPLACEMENT
19	SITE 17 - COMPKEY 2389341 STA. 10+00 - 13+38 REPLACEMENT
20	SITE 17 - COMPKEY 2389341 BYPASS PLAN REPLACEMENT
21	SITE 17-COMPKEY 2389341-TRAFFIC CONTROL PLAN - REPLACEMENT
22	SITE 20 - COMPKEY 998897 - STA. 10+00 - 11+85 REPLACEMENT
23	SITE 20- COMPKEY 998897 - PAVEMENT REPLACEMENT
24	SITE 20 -COMPKEY 998897 BYPASS PLAN REPLACEMENT
25	SITE 20-COMPKEY 998897-TRAFFIC CONTROL PLAN - REPLACEMENT
26	SITE 25 - COMPKEY 1010539 - STA. 10+00 - 10+54 REPLACEMENT
27	SITE 25 - COMPKEY 1010539 BYPASS PLAN REPLACEMENT
28	SITE 25-COMPKEY 1010539 -TRAFFIC CONTROL PLAN - REPLACEMENT
29	SITE 27 - COMPKEY 3141411 - 10+00 - 12+60 PIPE BURST
30	SITE 27 - COMPKEY 3141411 BYPASS PLAN PIPE BURST
31	SITE 28 - COMPKEY 2388938A - 10+00 - 14+00 - INSTALLATION
32	SITE 28 - COMPKEY 2388938A - 14+00 - 15+48 - INSTALLATION
33	SITE 28 - COMPKEY 2388938B - 10+00 - 14+00 - INSTALLATION
34	SITE 28 - COMPKEY 2388938B - 14+00 - 18+00 - INSTALLATION
35	SITE 28 - COMPKEY 2388938B - 18+00 - 18+64 - INSTALLATION
36	SITE 28 - COMPKEY 2388938C - 10+00 - 11+10 -INSTALLATION
37	SITE 28 - COMPKEY 2388938 - ABANDONMENT PLAN
38	SITE 28-COMPKEY 2388938 BYPASS PLAN REPLACEMENT
39	SITE 28 - COMPKEY 2388938A -TRAFFIC CONTROL PLAN - REPLACEMENT & MH REHAB
40	SITE 28 - COMPKEY 2388938B -TRAFFIC CONTROL PLAN - REPLACEMENT & MH REHAB
41	SITE 28 - COMPKEY 2388938C -TRAFFIC CONTROL PLAN - REPLACEMENT & MH REHAB
42	SITE 34 - COMPKEY 1004800 - STA. 10+00-14+00 REPLACEMENT
43	SITE 34 - COMPKEY 996890, 994905 STA.14+00-17+00 REPLACEMENT
44	SITE 34 - COMPKEY 994905 STA. 17+00-19+26 REPLACEMENT
45	SITE 34 - COMPKEY 994905, 996890,1004800 BYPASS PLAN
46	SITE 34 - COMPKEY 994905, 996890,1004800 -TRAFFIC CONTROL PLAN - REPLACEMENT
47	SITE 35 - COMPKEY 1004364 STA. 10+00-10+31 REPLACEMENT
48	SITE 35 - COMPKEY 1004364 BYPASS PLAN
49	SITE 36 - COMPKEY 994552 STA.10+00-10+14 REPLACEMENT
50	SITE 36 - COMPKEY 994552 BYPASS PLAN
51	SITE 37 - COMPKEY 997109 STA. 10+00-10+13 REPLACEMENT
52	SITE 37 - COMPKEY 997109 BYPASS PLAN

ARCADIS COMPKEY 1008520				
SHT. NO.	DESCRIPTION			
53	SYMBOLS AND ABBREVIATIONS			
54	WW WHITE RD (NORTH) PLAN AND PROFILE STA 10+00 TO STA 14+41.74 COMPKEY 1008520			
55	BYPASS PUMPING PLAN SEGMENT 1008520 MILLING RD/ N WW WHITE RD			
56	PHASE 1 TRAFFIC CONTROL PLAN SEGMENT 1008520 MILLING RD/ N WW WHITE RD 1 OF 2			
57	PHASE 1 TRAFFIC CONTROL PLAN SEGMENT 1008520 MILLING RD/ N WW WHITE RD 2 OF 2			
58	PHASE 2 TRAFFIC CONTROL PLAN SEGMENT 1008520 MILLING RD/ N WW WHITE RD 1 OF 2			
59	PHASE 2 TRAFFIC CONTROL PLAN SEGMENT 1008520 MILLING RD/ N WW WHITE RD 2 OF 2			
60	DETOUR PLAN SEGMENT 1008520 MILLING RD/ N WW WHITE RD			
61	WW WHITE (NORTH) TREE PROTECTION AND SWPPP PLAN			
62	TREE PROTECTION DETAILS			
63	TEMPORARY SWPPP CONTROL MEASURES (1 OF 2)			
64	TEMPORARY SWPPP CONTROL MEASURES (2 OF 2)			
65	CITY OF SAN ANTONIO CONCRETE DRIVEWAY STANDARDS			
66	CITY OF SAN ANTONIO MISCELLANEOUS CONSTRUCTION STANDARDS			
67	TXDOT TEMP. EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES			
68	DETAILS TXDOT STANDARD DETAILS BC (1) - 14			
69	DETAILS TXDOT STANDARD DETAILS BC (2) - 14			
70	DETAILS TXDOT STANDARD DETAILS BC (3) - 14			
71	DETAILS TXDOT STANDARD DETAILS BC (4) - 14			
72	DETAILS TXDOT STANDARD DETAILS BC (5) - 14			
73	DETAILS TXDOT STANDARD DETAILS BC (6) - 14			
74	DETAILS TXDOT STANDARD DETAILS BC (7) - 14			
75	DETAILS TXDOT STANDARD DETAILS BC (8) - 14			
76	DETAILS TXDOT STANDARD DETAILS BC (9) - 14			
77	DETAILS TXDOT STANDARD DETAILS BC (10) - 14			
78	DETAILS TXDOT STANDARD DETAILS BC (11) - 14			
79	DETAILS TXDOT STANDARD DETAILS BC (12) - 14			

LAN BN31-COMPKEY 975893						
SHT. NO.	DESCRIPTION					
80	PLAN AND PROFILE SHEET					
81	CONCEPTUAL BYPASS SHEET					
82	TCP/PAVEMENT REPAIR SHEET					

/	$\overline{}$				~	~	~		~	 	
			CD	S MUE	RY-COI	MPKEY	97592	26 & 9	75975		
	SHT. NO.					DES	CRIPTION				
	83 OVERALL PROJECT LOCATION AND CONTROL SUGGESTED BYPASS PLAN								——)		
	84				LINE N	N PLAN (ST.	A. 1+00 TO	STA. 5+00	0)		$\overline{}$
	85				LINE N	PLAN (STA	. 5+00 TO S	STA. 8+42.	94)		
			^		^	^	^	^	^	 	

STANDARD DETAILS				
SHT. NO.	DESCRIPTION			
86	GENERAL DETAILS 1			
87	SANITARY SEWER DETAILS-1			
88	SANITARY SEWER DETAILS-2			
89	SANITARY SEWER DETAILS-3			
90	COSA TBCS 1			
91	COSA TBCS 2			
92	COSA TBCS 3			
93	COSA TBCS 4			
94	COSA TREE PRESERVATION			



Registration No. F-5713 13750 San Pedro Avenue Suite 350 San Antonio, TX 78232 GARVER (210) 447-6250

Addendu	m No. 1	AJD		11/21		
Revi	sion	Drawn	Approved	Date		
REVISIONS						
别		EAST S PACKAG	EWERSHE E 4B	ED		
757	I INDE	יע ספי	DD A WING	יפ		

IAN PATRICK TOOHEY

ST SEWERSHED CKAGE 4B INDEX OF DRAWINGS

DEVELOPER:	SAN-ANTONIO-WATER-	SYSTEM
CONT.	BUDGET PROJ. 0	0-00-00
SUBMITTED _		
APPROVED _		
MAP No. 00	0-000	SHEET
SECT. No.		02
DR ADG/KS	K. IT JOB No. 21-4508	3 NF 94

1	ITEM NO	SPEC NO	DESCRIPTION	UNIT	ESTIMATED QUANTITY		
\rangle	1	103.1	Remove Concrete Curb (COSA Spec)	LF	376		
>	2	103.3	Remove Sidew alk & Drivew ay (COSA Spec)	SF	3030		
	3	103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	20		
	4	202	Prime Coat (COSA Spec)	GAL	514		
	5	203	Tack Coat (COSA Spec)	k Coat (COSA Spec) GAL			
	6	205.2	Hot Mix Asphaltic Pavement- Type B (10" Comp. Depth) (COSA Spec)	SY	8		
\rangle	7	205.2	Hot Mix Asphaltic Pavement- Type B (12.5" Comp. Depth) (COSA Spec)	SY	56		
\rangle	8	205.4	Hot Mix Asphaltic Pavement- Type D (2" Comp. Depth) (COSA Spec)	SY	10718		
\rangle	9	206.1	Asphalt Treated Base (10" Comp. Depth) (COSA Spec)	SY	1355		
> >	10	208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (2 inches depth), (COSA Spec)	SY	10296		
	11	413.1	Flowable Fill (low strength) (6") (COSA Spec)	CY	93		
\rangle	12	500	Concrete Curb (COSA Spec)	LF	46		
\downarrow	13	500	Concrete Curb and Gutter (COSA Spec)	LF	360		
\rangle	14	502	Concrete Sidew alk (COSA Spec)	SY	14		
\rangle	15	503	Asphalt Concrete Drivew ay (COSA Spec)	SY	132		
\rangle	16	503	Concrete Drivew ay (COSA SPEC)	SY	3		
	17	503	Portland Cement Concrete Drivew ay - Commercial (COSA Spec)	SY	85		
	18	503	Portland Cement Concrete Drivew ay (COSA Spec)	SY	314		
	19	515	Topsoil	CY	3		
	20	516.1	Bermuda Sodding	SY	59		
\rangle	21	516.2	St. Augustine Sodding	SY	101		
\rangle	22	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 11	LS	1		
\Rightarrow	23	530	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 15A	LS	1		
\Rightarrow	24	530	Barricades, Signs, And Traffic Handling,	LS	1		
\ \	25	530	(COSA Spec) Site 17 Barricades, Signs, And Traffic Handling,	LS	1		
}	26	530	(COSA Spec) Site 20 Barricades, Signs, And Traffic Handling,	LS	1		
	27	530	(COSA Spec) Site 25 Barricades, Signs, And Traffic Handling,	LS	1		
$\frac{1}{2}$	28	530	(COSA Spec) Site 28 Barricades, Signs, And Traffic Handling,	LS	1		
	29	530	(COSA Spec) Site 34 Barricades, Signs, and Traffic Handling,	LS	1		
$\left \cdot \right $			(COSA Spec) (N. WW White Rd.) Barricades, Signs, and Traffic Handling,				
+	30	530	(COSA Spec) Site BN31 Barricades, Signs, and Traffic Handling,	LS	1		
\downarrow	31	530	(COSA Spec) Line N	LS	1		
\downarrow	32	535.1	4-inch Wide Yellow Line (COSA Spec)	LF	756		
$\left \cdot \right $	33	540.7	Temporary Construction Perimeter Fence (Install/Remove) Site 17	LS	1		
	34	540.7	Temporary Construction Perimeter Fence (Install/Remove) (N. WW White	LS	1		

				EDTIMATED	
ITEM NO	SPEC NO	DESCRIPTION	UNIT	ESTIMATED QUANTITY	
35	550	Trench Excavation Safety Protection	LF	4427	
36	552.1	Removal and Replacement of Existing Irrigation System (COSA Spec)	LS	1	
37	834	Remove and Replace Fire Hydrant	EA	1	
38	848	8" PV C SDR-26 (160 PSI) Sew er Line (0'-6')	LF	281	
39	848	8" PV C SDR-26 (160 PSI) Sew er Line (6'- 14')	LF	1477	
40	848	8" PVC SDR-26 Sew er Line (0'-6')	LF	867	
41	848	8" PVC SDR-26 Sew er Line (6'-14')	LF	216	
42	848	10" PVC SDR-26 (160 PSI) Sewer Line (6'-14')	LF	926	
43	848	10" PV C SDR-26 Sew er Line (6'-14')	LF	432	
44	848	12" PV C SDR-26 Sew er Line (6'-14')	LF	185	
45	848	24" PV C SDR-26 Sew er Line (6'-14')	LF	43	
46	851	Manhole Adjustment	EA	9	\triangle
47	852	External Drop Connection	EA	3	
48	852	Sanitary Sew er Manhole 4' Dia. (0'-6')	EA	19	
49	852	Extra Depth Manhole (>6')	VF	26	
50	852.1	Sanitary Sew er Doghouse Manhole 4' Dia. (0'-6')	EA	1	
51	854	Tw o-Way Sanitary Sew er Clean-Out	EA	40	
52	854	Sanitary Sew er Laterals (SDR 26-2241, 160 PSI)	LF	345	
53	855	Reconstruction of Existing 4' Dia. Manhole	EA	3	
54	858	Concrete Encasement, Cradles, Saddles and Collars	CY	41	
55	859	Reconstruction of Existing Manholes using Polymer Concrete Manholes - 108" x 108" Vault	EA	3	
56	859	Reconstruction of Existing Manholes using Polymer Concrete Manholes - 96" Dia. Manhole	EA	3	
57	860	Vertical Stacks	VF	8	
58	862	Abandon Existing Sew er Line Site 25	LS	1	
59	862	Abandon Existing Sew er Lines Site 28	LS	1	
60	862	Abandon Existing Sew er Lines Site BN31	LS	1	
61	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 11	LS	1	
62	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 15	LS	1	
63	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 17	LS	1	
64	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 20	LS	1	
65	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 25	LS	1	
66	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 27	LS	1	
67	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 28	LS	1	
68	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site 34	LS	1	

ITEM NO	SPEC NO		UNIT	ESTIMATED QUANTITY
69	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") (N. WW White Rd.)	LS	1
70	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Site BN31	LS	1
71	864-S1	Bypass Pumping Small Diameter Sanitary Sew er, (<24") Line N	LS	1
72	864-S2	Bypass Pumping Large Diameter, (>=24") Site 35	LS	1
73	864-S2	Bypass Pumping Large Diameter, (>=24") Site 36	LS	1
74	864-S2	Bypass Pumping Large Diameter, (>=24") Site 37	LS	1
75	866	Sew er Main Television Inspection - 8" through 15"	LF	4263
76	866	Sew er Main Television Inspection - 15" through 24"	LF	786
77	900	Pipe Bursting - 8" Sanitary Sew er Main (5'-7' Depth)	LF	145
78	900	Pipe Bursting - 8" Sanitary Sew er Main (8'-15' Depth)	LF	260
79	901	Rehabilitation of Sanitary Sew er by Cured-In-Place Pipe (Hot Water) - 18" (All Depths)	LF	743
80	910	Rehabilitation of Existing 4' Dia. Manhole	VF	97
81	1103	Obstruction Removal - Remote Device	EΑ	2
82	1109	Service Reconnections - Open Cut	EA	3
83	SS 2010	Fence Removal and Replacement Site 25	LS	1
84	SS 2010	Fence Removal and Replacement (N. WW White Rd.)	LS	1
85	SS 3001	Pow er Pole Bracing	EA	12
86	SS 3300	Sanitary Sew er Private Laterals (4"-6") (Including COSA Permit & Licensed Plumber)	LF	1775
87	SS 801	Tree Protection	EA	2
88	SS 802	Tree Pruning	EA	1
89	TXDOT SS7185	Grout Abandonment Sew er Main	LF	432



	Registration No. F-5713
	13750 San Pedro Avenu
	Suite 350
	San Antonio, TX 78232
GARVER	(210) 447-6250

Addendum No. 1 AJD

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Drawn Approved Date
REVISIONS
BPC EAST SEWERSHED
PACKAGE 4B

SUMMARY OF QUANTITIES

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM CONT. BUDGET PROJ. 00-00-00 SUBMITTED _ APPROVED _ MAP No. 000-000 SHEET 06

SECT. No.
DR. ADG/KS CK. IT JOB No.21-4508

