

2019 Small Capacity Constraints II Solicitation Number: CO-00523 Job No.: 19-4525

ADDENDUM 3

May 20, 2022

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.

ANSWERS TO QUESTIONS

This Addendum addresses SAWS responses to questions 3 and 4 described in Addendum No. 2.

CHANGES TO SPECIFICATIONS

- 1. BID PROPOSAL REMOVE the Bid Proposal in its entirety and REPLACE with the attached version. The Bid Proposal was modified to include additions of quantities for bidding related to guardrail, fencing, and flowable fill items in response to questions outlined in Addendum No. 2.
 - Bid Item 299.7 Flowable Fill was modified from quantity 271 CY to 296 CY in accordance with the changes to the plans outlined in this Addendum.
 - Bid Item 405 PEDESTRIAN RAILING was added and all subsequent bid items were re-numbered accordingly.
 - Bid Item 505.1 Concrete Rip-Rap was modified to add "(5-inches thick)" to the bid item, in accordance with COSA Specification 505.1.
 - Bid Item SP507 Remove and Replace Fence was modified from quantity 230 LF to 1,607 LF to account for all fence replacements throughout the project.
 - Bid Item 509.1 METAL BEAM GUARD RAIL was added and all subsequent bid items were re-numbered accordingly.

Bidders shall use the revised Bid Proposal attached to this Addendum. Failure to do so may result in the bid being found non-responsive.

CHANGES TO PLANS

- 1. Remove and replace the following sheets with the attached sheets dated 5/17/2022. Notable Changes include additions of quantities for bidding related to guardrail, fencing, and flowable fill items in response to questions outlined in Addendum No. 2.
 - Sheet G4 (page 4) Project Quantities
 - Sheet C18 (page 22) Site 1 COSA Drainage Channel Plan and Profile BL A Sta 0+00 to 3+50
 - Sheet C19 (page 23) Site 1 COSA Drainage Channel Plan and Profile BL A Sta 3+50 to 7+00
 - Sheet C20 (page 24) Site 1 COSA Drainage Channel Plan and Profile BL A Sta 7+00 to 11+00
 - Sheet C21 (page 25) Site 1 COSA Drainage Channel Plan and Profile BL A Sta 11+00 to Sta 14+50
 - Sheet C22 (page 26) Site 1 COSA Drainage Channel Plan and Profile BL A Sta 14+50 to Sta 18+50
 - Sheet C23 (page 27) Site 1 Vance Jackson Road Plan and Profile BL A Sta 18+50 to Sta 21+10
 - Sheet C24 (page 28) Site 1 Oak Creek Apartments Plan and Profile BL A Sta 21+10 to Sta 25+03

- Sheet C28 (page 32) Site 2 UPRR Adj Plan and Profile BL E Sta 0+00 to 3+80
- Sheet C30 (page 34) Site 2 Alley and Catalina Ave to UPRR Plan and Profile BL E Sta 6+88 to 10+20
- Sheet C31 (page 35) Site 2 UPRR ROW and Alley Plan and Profile BL E Sta 10+20 to Sta 13+70
- Sheet C32 (page 36) Site 2 Alley: UPRR to Santa Paula Plan and Profile BL E Sta 13+70 to Sta 15+98

END OF ADDENDUM

This Addendum, including these 2 (two) pages, is 22 (twenty-two) pages with attachments in its entirety.

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Kyle H. Kaspar, P.E. Jones & Carter, Inc. Texas Board of Professional Engineers and Land Surveyors Reg. Nos. F-23290 & 10046100 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 in the bid proposal 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 <u>210</u> 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.

Statement on President's Executive Orders

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)? Yes No

- (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 No
- (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 □

Line No.	ITEM	DESCRIPTION	UNIT	QTY	TOTAL PRICE
1	101.1	REMOVE SANITARY SEWER MANHOLE	EA	3	\$ \$
2	102.1	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION	EA	1	\$ \$
3	102.2	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL	DAY	3	\$ \$
4	102.3	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	DAY	3	\$ \$
5	102.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING WATCH	DAY	3	\$ \$
6	103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	667	\$ \$
7	103.3	REMOVE CONCRETE SIDEWALK (COSA SPEC)	SY	55	\$ \$
8	103.3	REMOVE CONCRETE DRIVEWAY (COSA SPEC)	SY	344	\$ \$
9	104.1	STREET EXCAVATION (COSA SPEC)	CY	703	\$ \$
10	202.1	PRIME COAT (COSA SPEC)	GAL	130	\$ \$
11	203.1	TACK COAT (COSA SPEC)	GAL	186	\$ \$
12	205.4	HOT MIX ASPHALTIC CONCRETE PAVEMENT, TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	878	\$ \$
13	205.3	HOT MIX ASPHALTIC CONCRETE PAVEMENT, TYPE C (3" COMPACTED DEPTH) (COSA SPEC)	SY	986	\$ \$

14	206.1	ASPHALT TREATED BASE (ATB) (10" COMPACTED DEPTH) (COSA SPEC)	SY	878	\$ \$
15	206.1	ASPHALT TREATED BASE (ATB) (12" COMPACTED DEPTH) (COSA SPEC)	SY	986	\$ \$
16	208.1	SALVAGING HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	878	\$ \$
17	208.1	SALVAGING HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (COSA SPEC)	SY	986	\$ \$
18	209.2	CONCRETE BUS STOP PAD (COSA STANDARD DETAIL)	SY	548	\$ \$
19	299.7	FLOWABLE FILL	CY	296	\$ \$
20	405	PEDESTRIAN RAILING (TY PR11) (TXDOT SPEC)	LF	5	
21	500.1	CONCRETE CURB (COSA SPEC)	LF	667	\$ \$
22	502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	55	\$ \$
23	503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	344	\$ \$
24	505.1	CONCRETE RIP-RAP (5- INCHES THICK) (COSA SPEC)	SY	1,260	\$ \$
25	SP507	REMOVE AND REPLACE FENCE	LF	1,607	\$ \$
26	509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	588	\$ \$
27	515.1	TOPSOIL (COSA SPEC)	СҮ	176	\$ \$

20	540.4	BERMUDA SODDING (COSA	0)/	1 100	¢	¢
28	516.1	SPEC)	SY	1,192	р	\$
29	8000	TREE REMOVAL	EA	26	\$	\$
30	520.1	HYDROMULCHING (COSA SPEC)	SY	5,829	\$	\$
31	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING - LOCATION 1 (COSA SPEC)	LS	1	\$	\$
32	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING - LOCATION 2 (COSA SPEC)	LS	1	\$	\$
33	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING - LOCATION 3 (COSA SPEC)	LS	1	\$	\$
34	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (OLD BROOKS)	LS	1	\$	\$
35	535.1	4-INCH WIDE YELLOW LINE (W/REFLECTORS) (COSA SPEC)	LF	500	\$	\$
36	535.15	WHITE YIELD DIAMOND	EA	5	\$	\$
37	535.2	4-INCH WIDE WHITE LINE (COSA SPEC)	LF	1,150	\$	\$
38	535.7	24-INCH WIDE WHITE LINE (COSA SPEC)	LF	40	\$	\$
39	540.1	TEMPORARY EROSION, SEDIMENTATION, AND WATER POLLUTION PREVENTION AND CONTROL	LS	1	\$	\$
40	550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	3,927	\$	\$
41	801	TREE PROTECTION	LS	1	\$	\$

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42	848.6	8-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	42	\$	\$
43	848.6	10-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	1,101	\$	\$
44	848.6	10-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	1,311	\$	\$
45	848.6	10-INCH SDR-18 (AWWA C- 900) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	76	\$	\$
46	848.6	10-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	178	\$	\$
47	848.6	10-INCH SDR-13.5 (ASTM D- 3350) HDPE SANITARY SEWER LINE (6'-10' DEPTH)	LF	111	\$	\$
48	848.6	12-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	175	\$	\$
49	848.6	12-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	41	\$	\$
50	848.6	12-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	30	\$	\$
51	848.6	15-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	237	\$	\$
52	848.6	15-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	598	\$	\$

53	848.6	21-INCH SDR-26 (ASTM D- 3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	7	\$ \$
54	851.4	EXISTING MANHOLE ADJUSTMENTS	EA	8	\$ \$
55	SP852.1	SANITARY SEWER MANHOLE (0'-6')	EA	3	\$ \$
56	SP852.3	EXTRA DEPTH MANHOLE (>6')	VF	5.2	\$ \$
57	853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	24	\$ \$
58	853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER) DOGHOUSE CONSTRUCTION	EA	1	\$ \$
59	854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D- 2241, 150 PSI)	LF	588	\$ \$
60	854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	40	\$ \$
61	856.7	JACKING & BORING	LF	675	\$ \$
62	856.7	24-INCH STEEL CASING (0.375-INCH THICK)	LF	861	\$ \$
63	856.7	24-INCH STEEL CASING (0.438-INCH THICK)	LF	350	\$ \$
64	856.7	30-INCH STEEL CASING (0.375-INCH THICK)	LF	20	\$ \$
65	856.7	10-INCH PVC SDR-26 (ASTM D-3034) CARRIER PIPE FOR BORING OR JACKING	LF	675	\$ \$
66	856.7	15-INCH PVC SDR-26 (ASTM D-3034) CARRIER PIPE	LF	20	\$ \$

67	858.5	CONCRETE ENCASEMENT, CRADLES, SADDLES, AND COLLARS	CY	75.8	\$	\$
68	862	GROUT ABANDONMENT OF SANITARY SEWER MAIN (<15" MAIN)	LF	448	\$	\$
69	862.5	ABANDONMENT OF SANITARY SEWER MAINS	LF	2,579	\$	\$
70	862.5	ABANDONMENT OF SANITARY SEWER MANHOLES	EA	8	\$	\$
71	865	SMALL DIAMETER BYPASS PUMPING - LOCATION 1 (COMPKEY 963908)	LS	1	\$	\$
72	865	SMALL DIAMETER BYPASS PUMPING - LOCATION 2 (COMPKEYS 984636 & 973231)	LS	1	\$	\$
73	865	SMALL DIAMETER BYPASS PUMPING - LOCATION 3 (COMPKEY 983400)	LS	1	\$	\$
74	865	SMALL DIAMETER BYPASS PUMPING - OLD BROOKS SITE	LS	1	\$	\$
75	866.6	SEWER MAIN PRE- TELEVISION INSPECTION (8" - 15")	LF	5,273	\$	\$
76	866.6	SEWER MAIN POST- TELEVISION INSPECTION (8" - 15")	LF	5,381	\$	\$
77	900.4	PIPE BURSTING 10-INCH SDR-13.5 (ASTM D-3350) HDPE SANITARY SEWER LINE	LF	779	\$	\$
78	910.8	MANHOLE REHABILITATION (4' DIAMETER)	VF	72	\$	\$
79	1103	POINT REPAIRS	EA	2	\$	\$
			SUB	TOTAL	(ITEMS 1 - <mark>79</mark>)	

80	3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1	\$15,000	\$15,000
81	SC7	UNION PACIFIC RAILROAD FLAGGERS	ALW	1	\$77,100	\$77,100
82	100.1	MOBILIZATION AND DEMOBILIZATION, MAX 10% OF LINE ITEMS 1 – 79	LS	1	\$	\$
83	101.1	PREPARING ROW, MAX 5% OF LINE ITEMS 1 - 79	LS	1	\$	\$
	SUBTOTAL (ITEMS <mark>80</mark> - <mark>83</mark>)			\$		
	TOTAL BID PRICE (TO INCLUDE LINE ITEMS 1 - <mark>83</mark>)			\$		

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.

ESTIMATED QUANTITIES

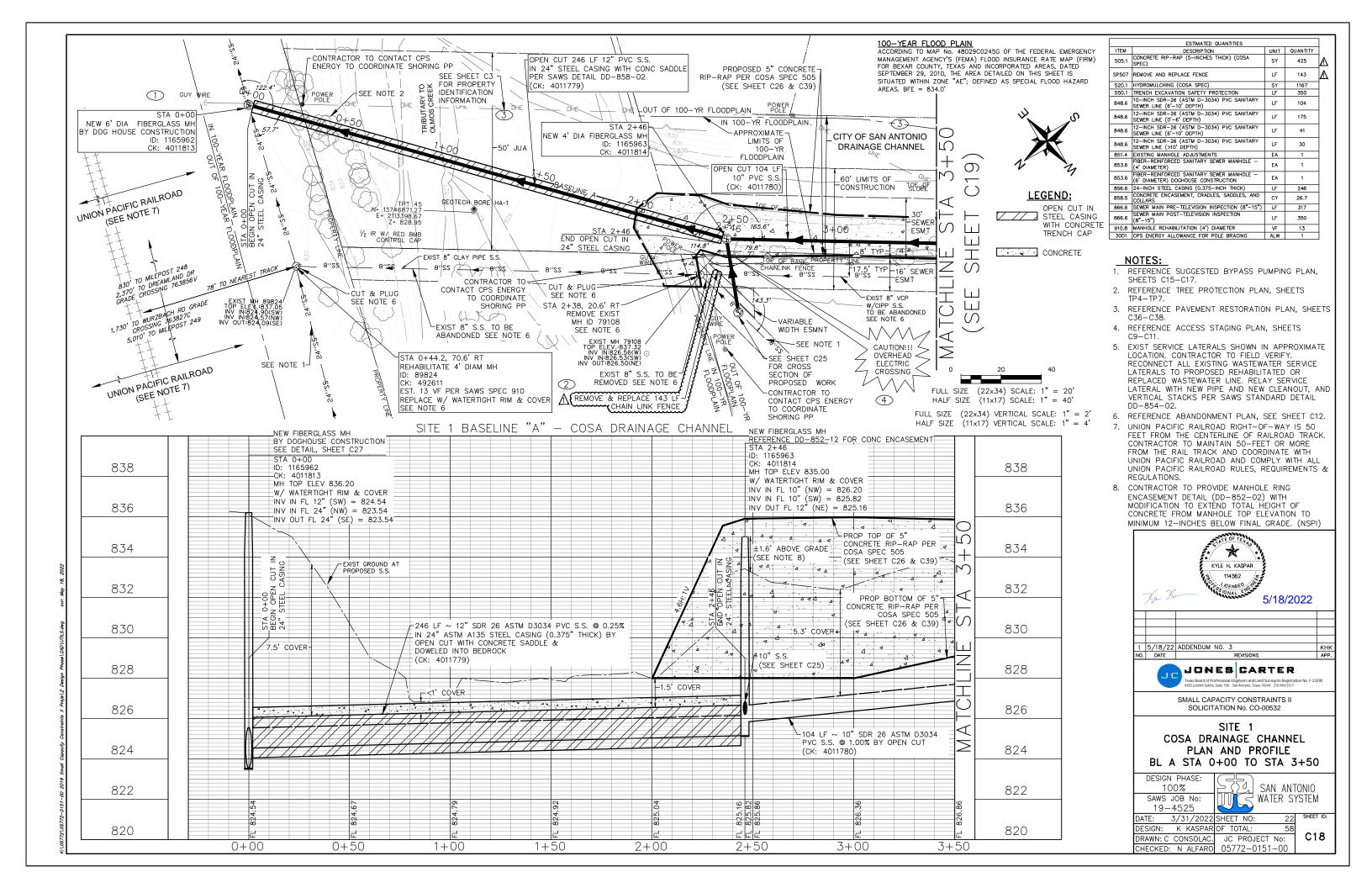
PROJECT: 2019 SMALL CAPACITY CONSTRAINTS II Phase - 100% Design

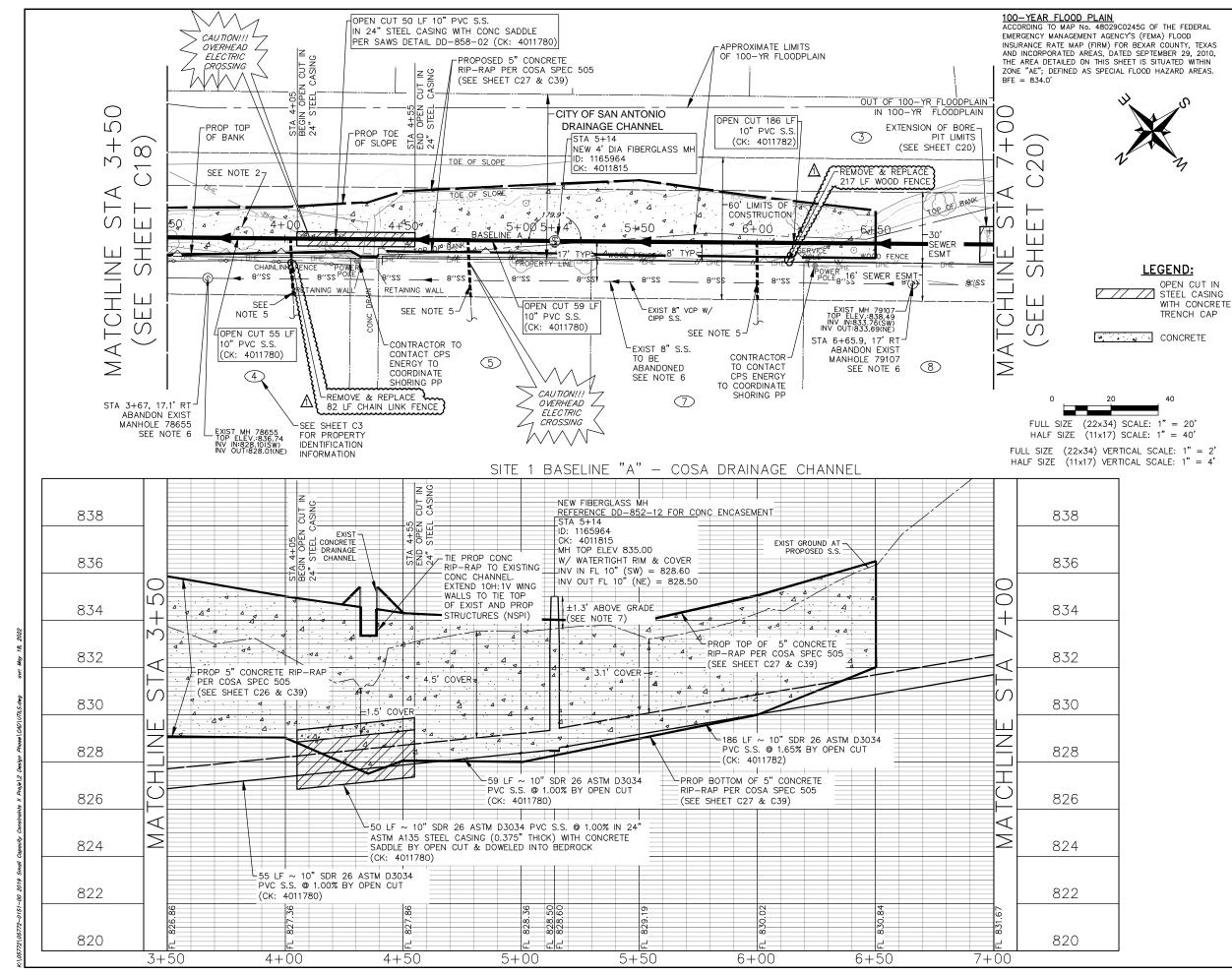
DATE: May 18, 2022 JC PROJECT NO. 05772-0151-00

ITEM No.	DESCRIPTION	UNIT	QUANTIT
	MOBILIZATION (MAX 10% OF ITEMS 3 TO 77)	LS	1
100.1	PREPARATION OF RIGHT-OF-WAY (MAX 5% OF ITEMS 3 TO 77)	LS	1
101.1	REMOVE SANITARY SEWER MANHOLE	EA	3
101.1		EA	1
102.1	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION	DAY	3
102.2	INTERMEDIATE DEMOBILIZATION BIPASS FOMPING EQUIPMENT RENTAL	DAY	3
102.3	INTERMEDIATE DEMOBILIZATION BYPASS POMPING FOEL	DAY	3
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	667
103.3	REMOVE CONCRETE SIDEWALK (COSA SPEC)	SY	55
103.3	REMOVE CONCRETE DRIVEWAY (COSA SPEC)	SY	344
104.1	STREET EXCAVATION (COSA SPEC)	CY	703
202.1	PRIME COAT (COSA SPEC)	GAL	130
203.1	TACK COAT (COSA SPEC)	GAL	186
205.4	HOT MIX ASPHALTIC CONCRETE PAVEMENT, TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	878
205.3	HOT MIX ASPHALTIC CONCRETE PAVEMENT, TYPE C (3" COMPACTED DEPTH) (COSA SPEC)	SY	986
206.1	ASPHALT TREATED BASE (ATB) (10" COMPACTED DEPTH) (COSA SPEC)	SY	878
206.1	ASPHALT TREATED BASE (ATB) (12" COMPACTED DEPTH) (COSA SPEC)	SY	986
208.1	SALVAGING HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	878
208.1	SALVAGING HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (COSA SPEC)	SY	986
209.2	CONCRETE BUS STOP PAD (COSA STANDARD DETAIL)	SY	548
299.7	FLOWABLE FILL	CY	296
405	PEDESTRIAN RAILING (TY PR11) (TXDOT SPEC)	LF	5
500.1	CONCRETE CURB (COSA SPEC)	LF	667
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	55
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	344
505.1	CONCRETE RIP-RAP (5-INCHES THICK) (COSA SPEC)	SY	1,260
SP507	REMOVE AND REPLACE FENCE	LF	1,200
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	588
515.1	TOPSOIL (COSA SPEC)	CY	132
516.1	BERMUDA SODDING (COSA SPEC)	SY	1,192
8000	TREE REMOVAL	EA	26
520.1	HYDROMULCHING (COSA SPEC)	SY	5,567
530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING - LOCATION 1 (COSA SPEC)	LS	5,567
530.1		LS	1
	BARRICADES, SIGNS, AND TRAFFIC HANDLING - LOCATION 2 (COSA SPEC)		
530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING - LOCATION 3 (COSA SPEC)	LS	1
535.1	4-INCH WIDE YELLOW LINE (W/REFLECTORS) (COSA SPEC)	LF	500
535.15	WHITE YIELD DIAMOND (COSA SPEC)	EA	5
535.2	4-INCH WIDE WHITE LINE (COSA SPEC)	LF	1,150
535.7	24-INCH WIDE WHITE LINE (COSA SPEC)	LF	40
540.1	TEMPORARY EROSION, SEDIMENTATION, AND WATER POLLUTION PREVENTION AND CONTROL	LS	1

ESTIMATED QUANTITIES					
Phase - 10	2019 SMALL CAPACITY CONSTRAINTS II 10% Design	DATE: JC PROJECT NO	May 18, 2022 0. 05772-0151-00		
	NO. 19-4525				
ITEM No.	DESCRIPTION	UNIT	QUANTITY		
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	3,480		
801	TREE PROTECTION	LS	1		
848.6	8-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	42		
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	1,101		
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	1,311		
848.6	10-INCH SDR-18 (AWWA C-900) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	76		
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	178		
848.6	10-INCH SDR-13.5 (ASTM D-3350) HDPE SANITARY SEWER LINE (6'-10' DEPTH)	LF	111		
848.6	12-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	175		
848.6	12-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	41		
848.6	12-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	30		
848.6	15-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	388		
848.6	21-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	7		
851.4	EXISTING MANHOLE ADJUSTMENTS	EA	8		
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	24		
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER) DOG HOUSE CONSTRUCTION	EA	1		
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	588		
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	40		
856.7	JACKING & BORING	LF	675		
856.7	24-INCH STEEL CASING (0.375-INCH THICK)	LF	861		
856.7	24-INCH STEEL CASING (0.438-INCH THICK)	LF	350		
856.7	30-INCH STEEL CASING (0.375-INCH THICK)	LF	20		
856.7	10-INCH PVC SDR-26 (ASTM D-3034) CARRIER PIPE FOR BORING OR JACKING	LF	675		
856.7	15-INCH PVC SDR-26 (ASTM D-3034) CARRIER PIPE	LF	20		
858.5	CONCRETE ENCASEMENT, CRADLES, SADDLES, AND COLLARS	CY	38		
862.5	ABANDONMENT OF SANITARY SEWER MAINS	LF	2,579		
862.5	ABANDONMENT OF SANITARY SEWER MANHOLES	EA	8		
865	SMALL DIAMETER BYPASS PUMPING - LOCATION 1 (COMPKEY 963908)	LS	1		
865	SMALL DIAMETER BYPASS PUMPING - LOCATION 2 (COMPKEYS 984636 & 973231)	LS	1		
865	SMALL DIAMETER BYPASS PUMPING - LOCATION 3 (COMPKEY 983400)	LS	1		
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8" - 15")	LF	4,826		
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8" - 15")	LF	4,934		
900.4	PIPE BURSTING 10-INCH SDR-13.5 (ASTM D-3350) HDPE SANITARY SEWER LINE	LF	779		
910.8	MANHOLE REHABILITATION (4' DIAMETER)	VF	72		
1103	POINT REPAIRS	EA	2		
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1		
SC7	UNION PACIFIC RAILROAD FLAGGERS	ALW	1		



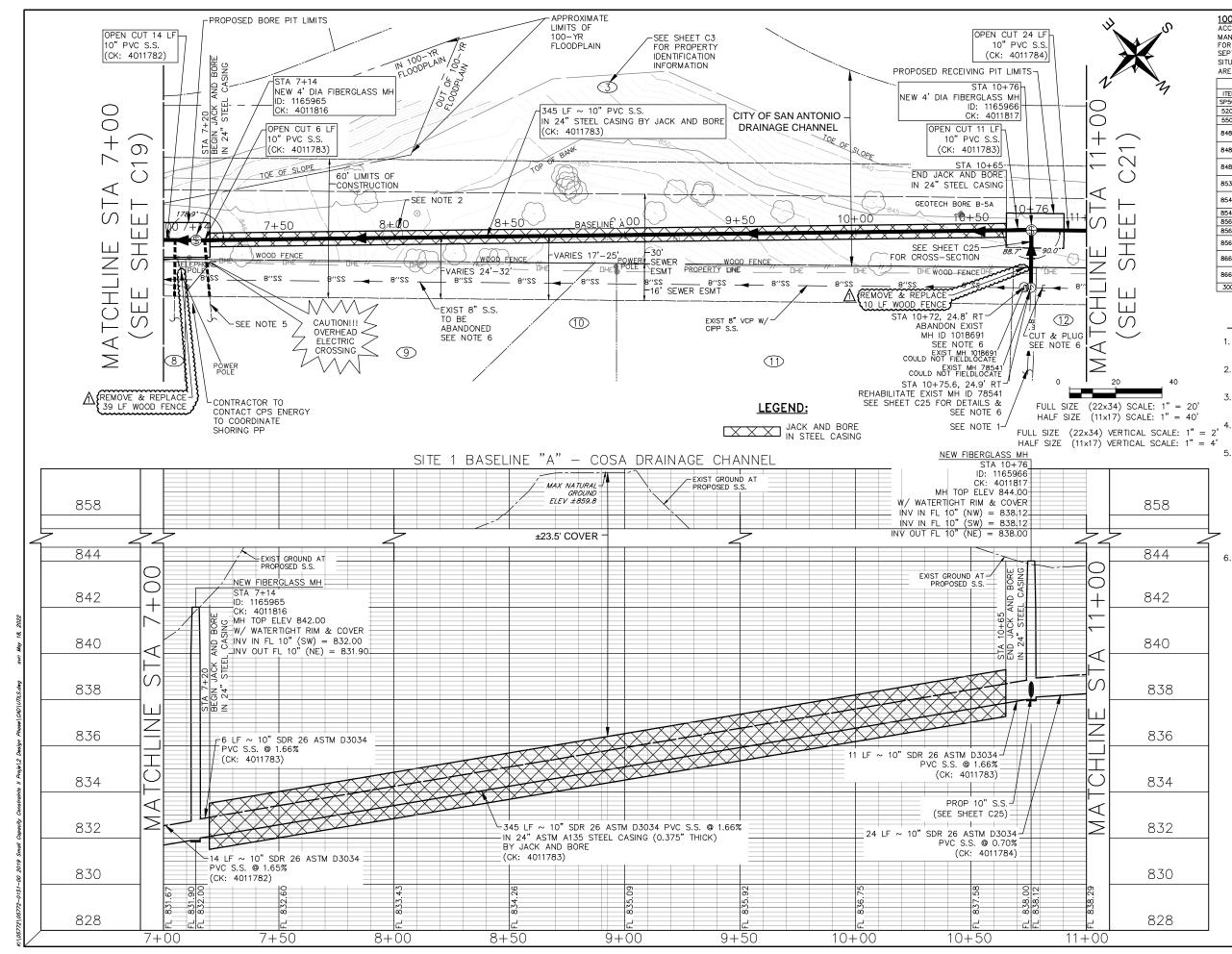




	ESTIMATED QUANTITIES		
ITEM	DESCRIPTION	UNIT	QUANTITY
505.1	CONCRETE RIP-RAP (5-INCHES THICK) (COSA SPEC)	SY	835
SP507	REMOVE AND REPLACE FENCE	LF	299
520.1	HYDROMULCHING (COSA SPEC)	SY	1167
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	350
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	285
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	65
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	1
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	72
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	3
856.6	24-INCH STEEL CASING (0.375-INCH THICK)	LF	50
858.5	CONCRETE ENCASEMENT, CRADLES, SADDLES, AND COLLARS	CY	5.4
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	350
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	350
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1

- REFERENCE SUGGESTED BYPASS PUMPING PLAN, 1 SHEETS C15-C17.
- REFERENCE TREE PROTECTION PLAN, SHEETS 2. TP4-TP7.
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38.
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS C9 - C11
- 5. EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE, NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE.
- 6. REFERENCE ABANDONMENT PLAN, SEE SHEET C12.
- 7. CONTRACTOR TO PROVIDE MANHOLE RING ENCASEMENT DETAIL (DD-852-02) WITH MODIFICATION TO EXTEND TOTAL HEIGHT OF CONCRETE FROM MANHOLE TOP ELEVATION TO MINIMUM 12-INCHES BELOW FINAL GRADE. (NSPI)





ACCORDING TO MAP No. 48029C0245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "AE"; DEFINED AS SPECIAL FLOOD HAZARD AREAS. BFE = 834.0'

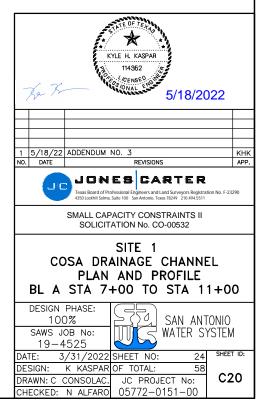
	ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY	
SP507	REMOVE AND REPLACE FENCE	LF	49	A
520.1	HYDROMULCHING (COSA SPEC)	SY	183	
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	55	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	24	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	25	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	6	
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	2	
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	49	
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	2	
856.6	JACKING & BORING	LF	345	
856.6	24-INCH STEEL CASING (0.375-INCH THICK)	LF	345	
856.6	10-INCH PVC SDR-26 (ASTM D-3034) CARRIER PIPE FOR BORING OR JACKING	LF	345	
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	400	
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	400	
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1	

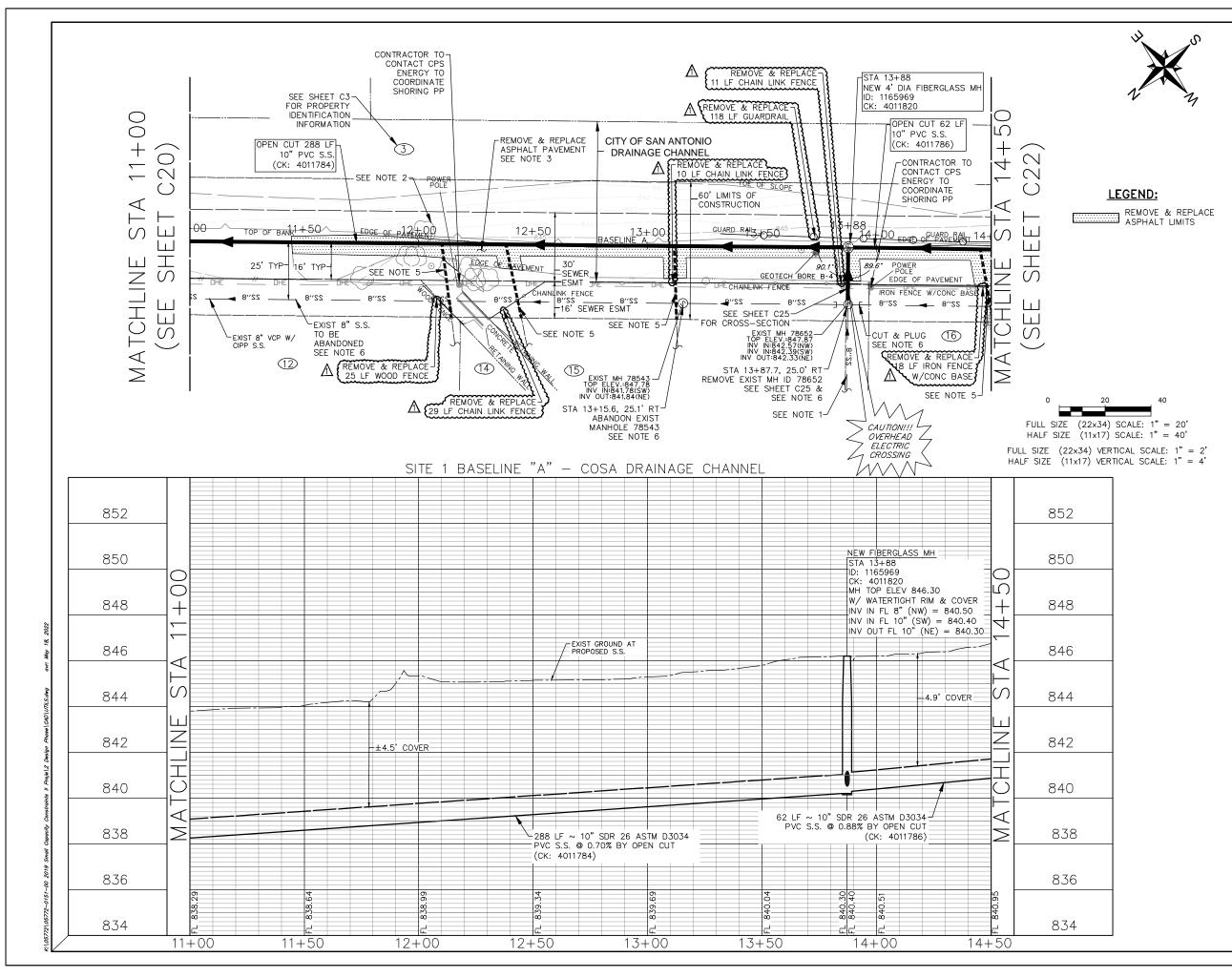
NOTES:

- 1. REFERENCE SUGGESTED BYPASS PUMPING PLAN, SHEETS C15-C17.
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP4-TP7
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38
- REFERENCE ACCESS STAGING PLAN, SHEETS 4. C9-C11.

EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE, NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02 REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE.

6. REFERENCE ABANDONMENT PLAN, SEE SHEET C12.



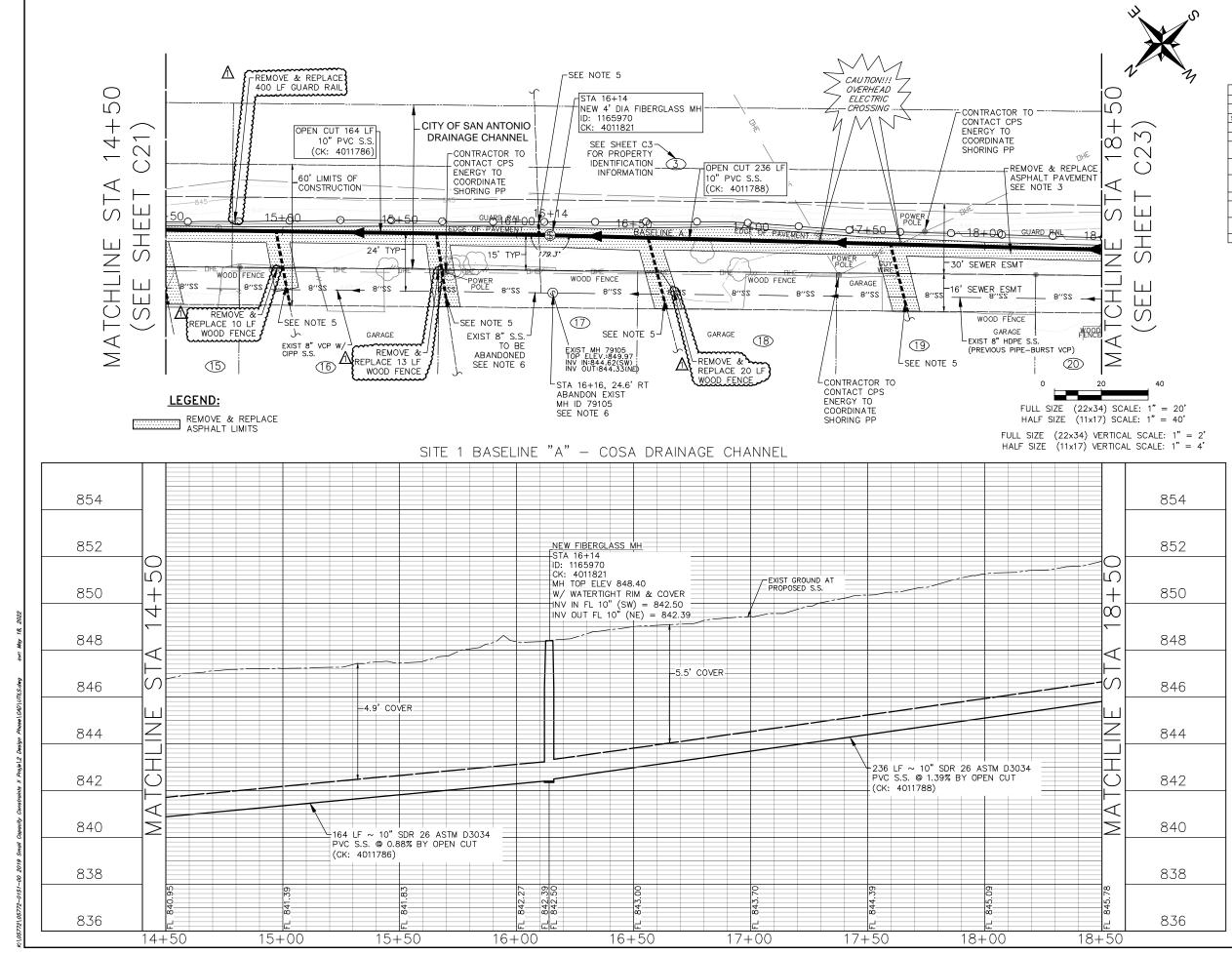


ACCORDING TO MAP No. 4802900245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED.

	ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY	
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	118	A
SP507	REMOVE AND REPLACE FENCE	LF	93	Μ
520.1	HYDROMULCHING (COSA SPEC)	SY	1167	
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	350	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	350	
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	1	
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	130	
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	4	
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	350	
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	350	
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1	

- 1. REFERENCE SUGGESTED BYPASS PUMPING PLAN, SHEETS C15-C17.
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP4-TP7.
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38.
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS C9-C11.
- 5. EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE, NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE.
- 6. REFERENCE ABANDONMENT PLAN, SEE SHEET C12.



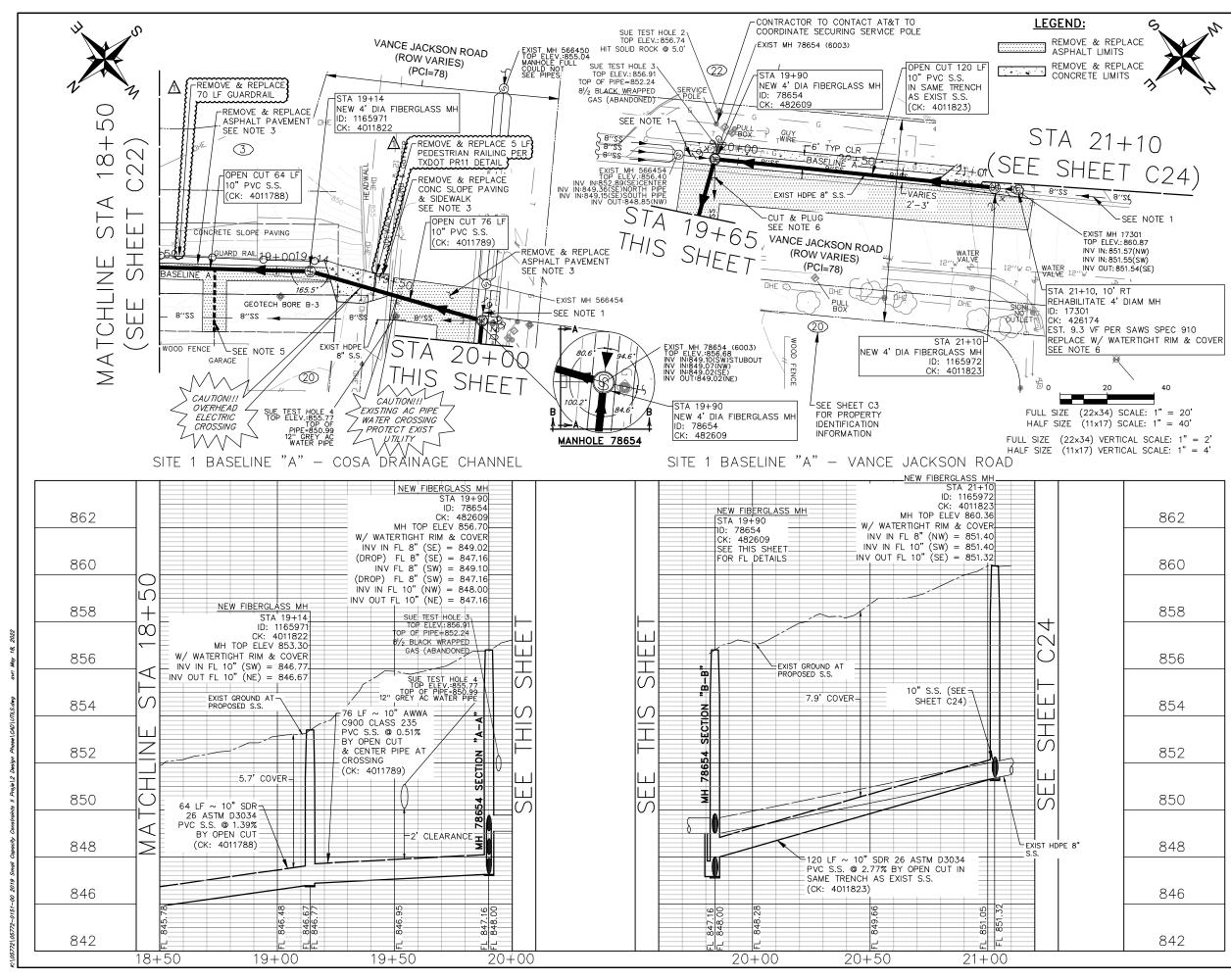


ACCORDING TO MAP No. 48029C0245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED.

	ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY	
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	400	Δ
SP507	REMOVE AND REPLACE FENCE	LF	43	Δ
520.1	HYDROMULCHING (COSA SPEC)	SY	1333	
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	400	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	400	
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	1	
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	125	
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	4	
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	400	
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	400	
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1	

- 1. REFERENCE SUGGESTED BYPASS PUMPING PLAN, SHEETS C15-C17.
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP4-TP7.
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38.
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS C9-C11.
- 5. EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE, NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE.
- 6. REFERENCE ABANDONMENT PLAN, SEE SHEET C12.



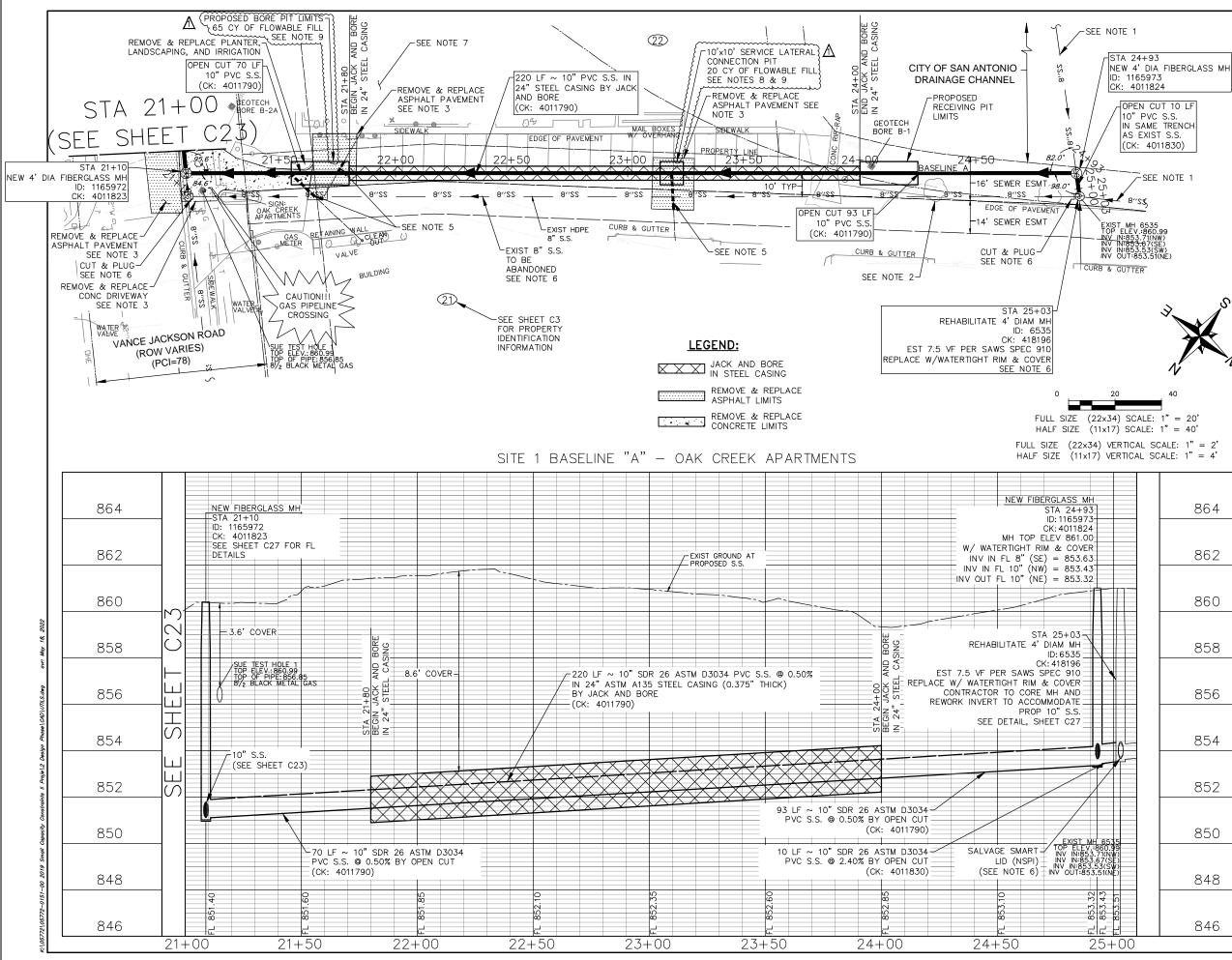


ACCORDING TO MAP No. 48029C0245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MANAGEMENT AGENCI'S (FEMA) FLOUD INSORADOL RATE MAR (TIRM, FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED.

	ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY	
405	PEDESTRIAN RAILING (TY PR11) (TXDOT SPEC)	LF	5	Δ
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	70	Λ
520.1	HYDROMULCHING (COSA SPEC)	SY	550	
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	260	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	184	
848.6	10-INCH SDR-18 (AWWA C-900) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	76	
851.4	EXISTING MANHOLE ADJUSTMENTS	EA	1	
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	3	
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	27	
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	1	
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	257	
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	260	
910.8	MANHOLE REHABILITATION	VF	9	
SC5	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1	

- REFERENCE SUGGESTED BYPASS PUMPING PLAN, SHEETS C15-C17.
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP4-TP7.
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38.
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS C9 - C11
- 5. EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE, NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE. REFERENCE ABANDONMENT PLAN, SEE SHEET C12.
- CONTRACTOR TO COORDINATE WITH OAK CREEK APARTMENT COMPLEX TO MAINTAIN ACCESS TO PROPERTY AND PRIMARY BUSINESS OFFICE AT ALL TIMES.





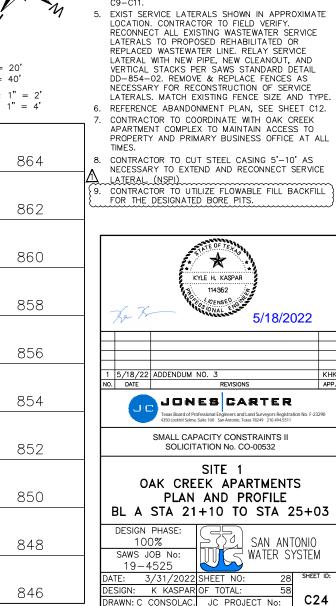
100-YEAR FLOOD PLAIN ACCORDING TO MAP No. 48029C0245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED

SEPTEMBER 29, 2010. THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED. ESTIMATED QUANTITIES DESCRIPTION UNIT QUANTITY ITEM 299.7 FLOWABLE FILL 550.1 TRENCH EXCAVATION SAFETY PROTECTION CY 85 848.6 10-INCH SDR-26 (ASTM D-3034) PVC SANITAR SEWER LINE (6'-10' DEPTH) LF 173 851.4 EXISTING MANHOLE ADJUSTMENT 1 EA FIBER-REINFORCED SANITARY SEWER MANHOLE 853.6 (4' DIAMETER) EA 1 SANITARY SEWER LATERALS, SDR-26 (ASTM 854.7 LF 36 D-2241, 150 PSI 854.7 TWO-WAY SANITARY SEWER CLEAN-OU 3 EA 856.6 JACKING & BORING LF 220 856.6 24-INCH STEEL CASING (0.375-INCH THICK) LF 220
 856.6
 10-INCH PVC SDR-26 (ASTM D-3034) CARRIER PIPE FOR BORING OR JACKING

 866.6
 (6"-15")
 LF 220 LF 394 866.6 SEWER MAIN POST-TELEVISION INSPECTION LF 393 (8"-15") 910.8 MANHOLE REHABILITATION - (4' DIAMETER) VF 7.5

NOTES:

- REFERENCE SUGGESTED BYPASS PUMPING PLAN, 1. SHEETS C15-C17
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP4-TP7.
- REFERENCE PAVEMENT RESTORATION PLAN, SHEETS .3. C36-C38
- REFERENCE ACCESS STAGING PLAN, SHEETS 4 C9-C11.

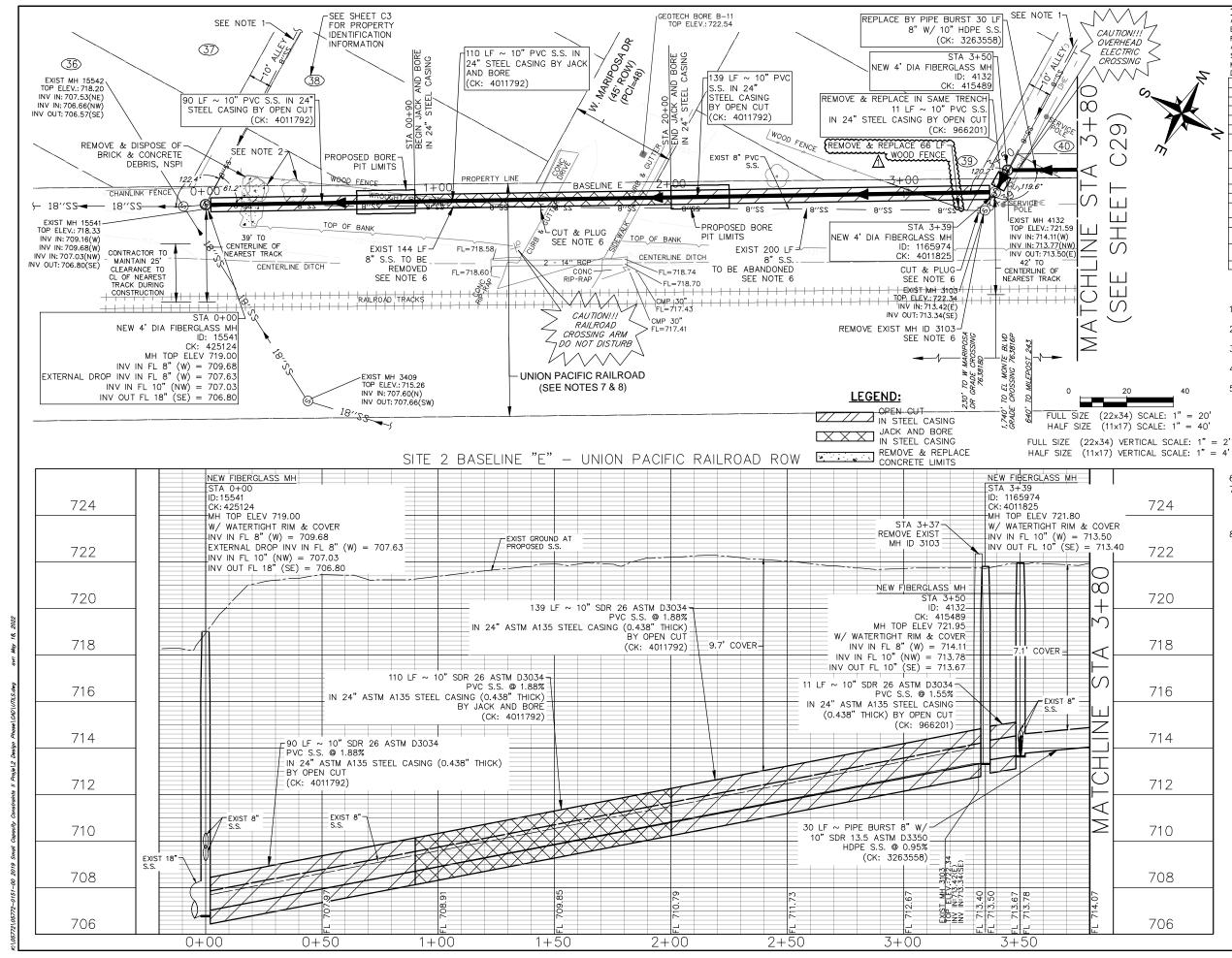


CHECKED: N ALFARO 05772-0151-00

10" PVC S.S. IN SAME TRENCH AS EXIST S.S. (CK: 4011830) SEE NOTE

INV IN:853.71(NW) INV IN:853.67(SE) INV IN:853.53(SW) INV OUT:853.51(NE)

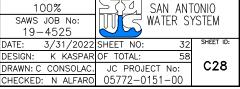


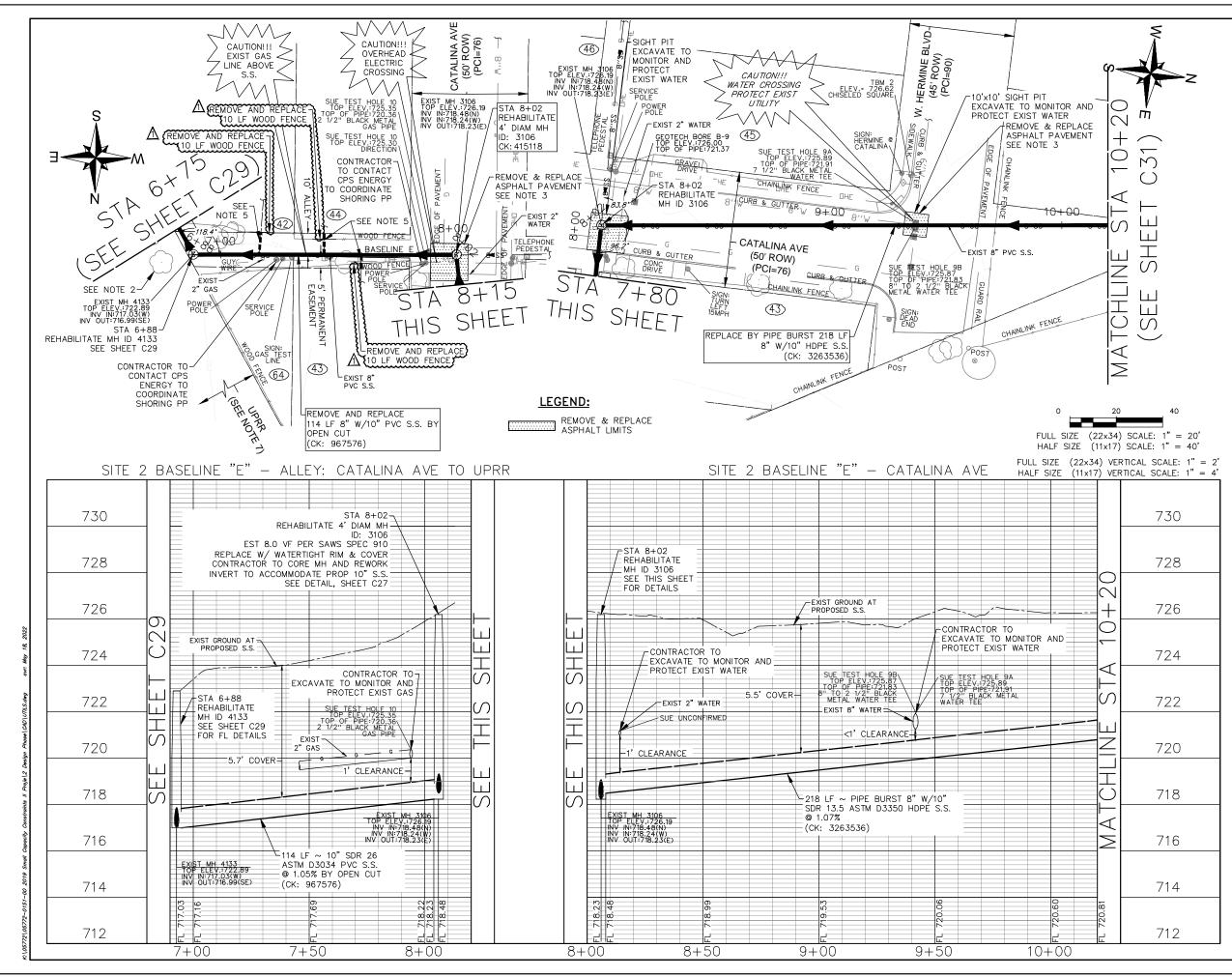


TO MAP No. 48029C0385G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) ELOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED.

	ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY	
SP507	REMOVE AND REPLACE FENCE	LF	66]/\
515.1	TOPSOIL (COSA SPEC)	CY	33	
516.1	BERMUDA SODDING (COSA SPEC)	SY	300	
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	240	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	68	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (>10' DEPTH)	LF	172	
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	3	
856.6	JACKING & BORING	LF	110	
856.6	24-INCH STEEL CASING (0.438-INCH THICK)	LF	350	
856.6	10-INCH PVC SDR-26 (ASTM D-3034) CARRIER PIPE FOR BORING OR JACKING	LF	110	
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	385	
866.9	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	380	
900.4	PIPE BURSTING 10-INCH SDR-13.5 (ASTM D-3350) HDPE SANITARY SEWER LINE	LF	30	
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1	

- REFERENCE SUGGESTED BYPASS PUMPING PLAN, 1. SHEETS C15-C17.
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP4-TP7
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36 - C38
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS
- C9-C11. EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE 5. LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE AND NEW CLEANOUT. AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE REFERENCE ABANDONMENT PLAN, SEE SHEET C13 CONTRACTOR TO COORDINATE WITH UNION PACIFIC 7. RAILROAD, COMPLY WITH ALL UNION PACIFIC RAILROAD RULES, REQUIREMENTS & REGULATIONS, AND CONTACT "CALL BEFORE YOU DIG": 1-800-336-9193. ALL SHORING THAT IMPACTS UNION PACIFIC 8 RAILROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH "GUIDELINES FOR TEMPORARY SHORING". ★ KYLE H. KASPAR 114362 La 5/18/2022
 - 5/18/22 ADDENDUM NO. 3 KHK NO. DATE APP REVISIONS JONES CARTER SMALL CAPACITY CONSTRAINTS II SOLICITATION No. CO-00532 SITE 2 UPRR ADJ PLAN AND PROFILE BL E STA 0+00 TO STA 3+80 DESIGN PHASE:



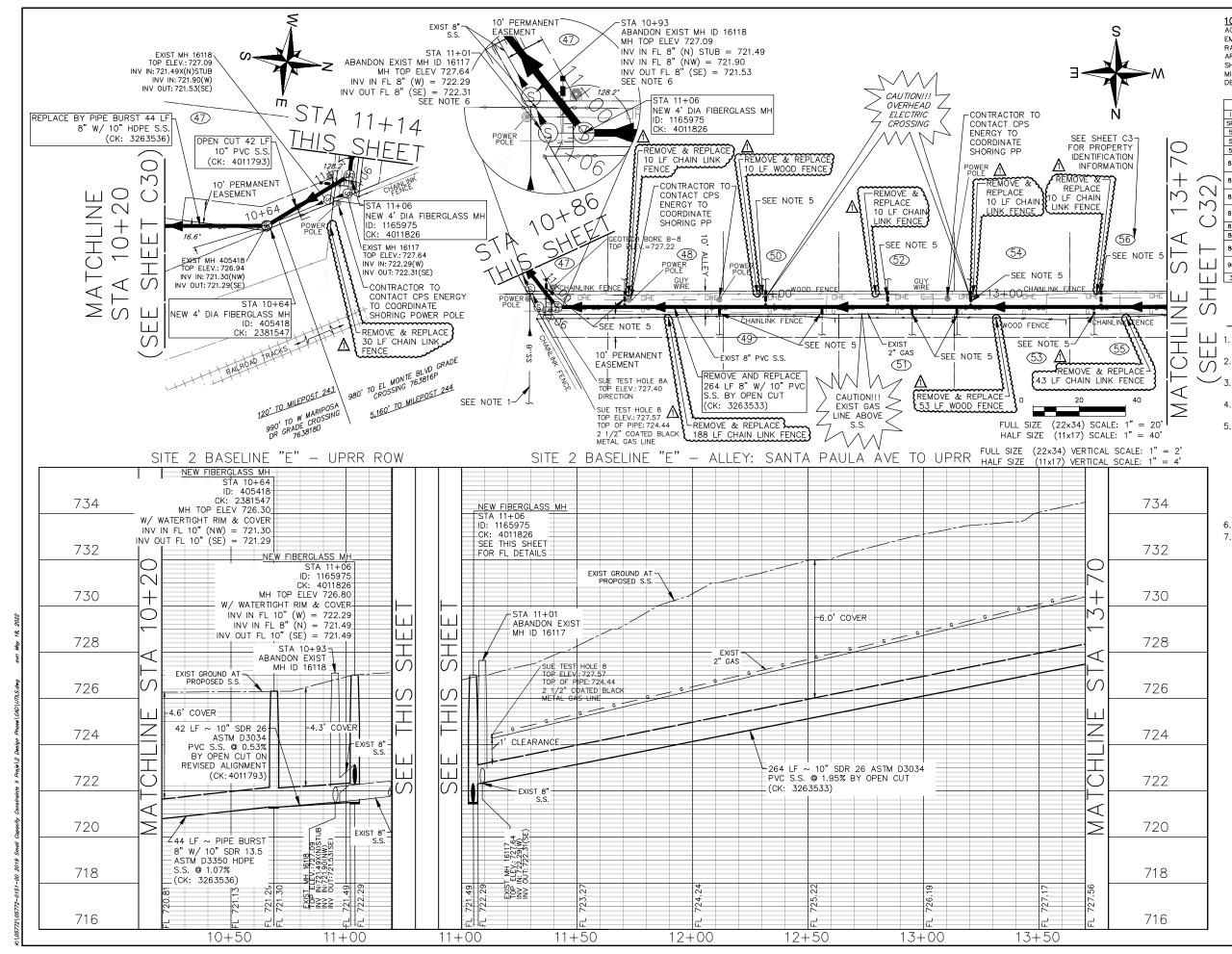


ACCORDING TO MAP No. 48029C0385G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED.

	ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY	
SP507	REMOVE AND REPLACE FENCE	LF	30	A
515.1	TOPSOIL (COSA SPEC)	CY	14	
516.1	BERMUDA SODDING (COSA SPEC)	SY	127	1
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	114	1
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	114	
851.4	EXISTING MANHOLE ADJUSTMENTS	EA	1	
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	ŀF	25	
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	3	
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	332	
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	332	
900.4	PIPE BURSTING 10-INCH SDR-13.5 (ASTM D-3350) HDPE SANITARY SEWER LINE	LF	218	
910.8	MANHOLE REHABILITATION - (4' DIAMETER)	VF	8.0	
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1	

- 1. REFERENCE SUGGESTED BYPASS PUMPING PLAN, SHEETS C15-C17.
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP5-TP7.
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38.
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS C9–C11.
- 5. EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE AND NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE.
- 6. REFERENCE ABANDONMENT PLAN, SEE SHEET C12.
- CONTRACTOR TO COORDINATE WITH UNION PACIFIC RAILROAD AND COMPLY WITH ALL UNION PACIFIC RAILROAD RULES, REQUIREMENTS & REGULATIONS.





ACCORDING TO MAP No. 48029C0385G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED.

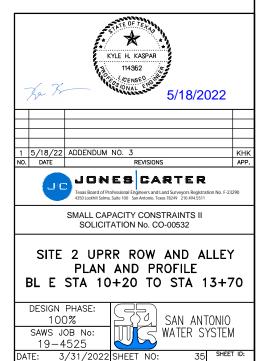
	ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY	1
SP507	REMOVE AND REPLACE FENCE	LF	364]/î
515.1	TOPSOIL	CY	38	
516.1	BERMUDA SODDING (COSA SPEC)	SY	340	
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	306	1
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (0'-6' DEPTH)	LF	42	
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	264	
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	2	
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	67	
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	11	
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	353	
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	350	
900.4	PIPE BURSTING 10-INCH SDR-13.5 (ASTM D-3350) HDPE SANITARY SEWER LINE	LF	44	
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1]

NOTES:

ESIGN:

DRAWN: C CONSOLAC.

- 1. REFERENCE SUGGESTED BYPASS PUMPING PLAN, SHEETS C15-C17.
- 2. REFERENCE TREE PROTECTION PLAN, SHEETS TP4-TP7
- REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38.
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS C9-C11.
- EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE AND NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE.
 REFERENCE ABANDONMENT PLAN, SEE SHEET C13.
- CONTRACTOR TO COORDINATE WITH UNION PACIFIC RAILROAD AND COMPLY WITH ALL UNION PACIFIC RAILROAD RULES, REQUIREMENTS & REGULATIONS.



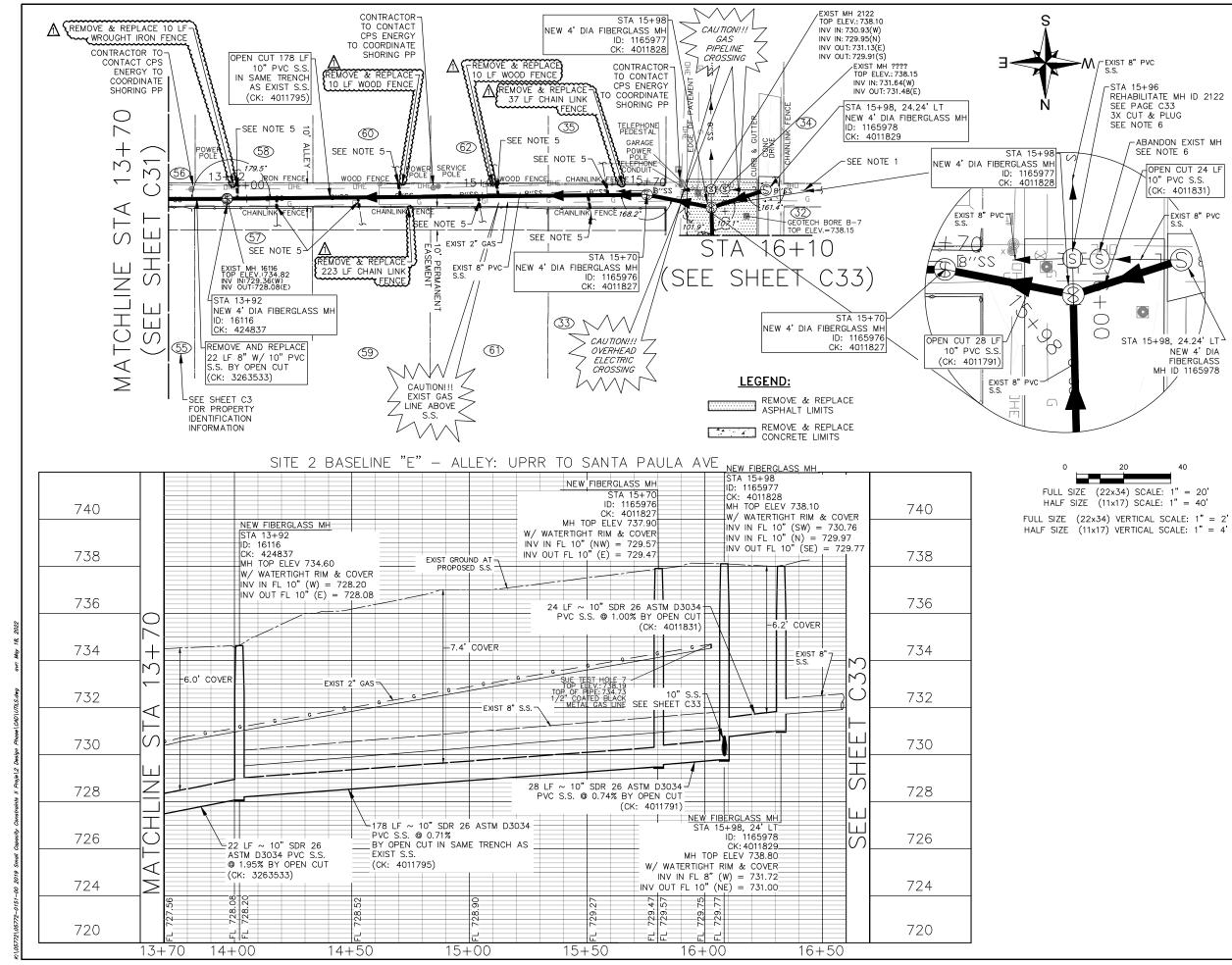
K KASPAR OF TOTAL

CHECKED: N ALFARO 05772-0151-00

58

JC PROJECT No:

C31



ACCORDING TO MAP No. 48029C0385G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY. TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION (BFE) IS DEFINED

	ESTIMATED QUANTITIES			1
ITEM	DESCRIPTION	UNIT	QUANTITY	1.
SP507	REMOVE AND REPLACE FENCE	LF	290	M
515.1	TOPSOIL (COSA SPEC)	CY	31	r
516.1	BERMUDA SODDING (COSA SPEC)	SY	280	1
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	252]
848.6	10-INCH SDR-26 (ASTM D-3034) PVC SANITARY SEWER LINE (6'-10' DEPTH)	LF	252	
853.6	FIBER-REINFORCED SANITARY SEWER MANHOLE - (4' DIAMETER)	EA	4	1
854.7	SANITARY SEWER LATERALS, SDR-26 (ASTM D-2241, 150 PSI)	LF	39	
854.7	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	8	1
866.6	SEWER MAIN PRE-TELEVISION INSPECTION (8"-15")	LF	258	1
866.6	SEWER MAIN POST-TELEVISION INSPECTION (8"-15")	LF	252	
3001	CPS ENERGY ALLOWANCE FOR POLE BRACING	ALW	1]

- REFERENCE SUGGESTED BYPASS PUMPING PLAN, SHEETS C15-C17.
- REFERENCE TREE PROTECTION PLAN, SHEETS 2. TP4-TP7
- 3. REFERENCE PAVEMENT RESTORATION PLAN, SHEETS C36-C38.
- 4. REFERENCE ACCESS STAGING PLAN, SHEETS C9-C11.
- 5. EXIST SERVICE LATERALS SHOWN IN APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY. RECONNECT ALL EXISTING WASTEWATER SERVICE LATERALS TO PROPOSED REHABILITATED OR REPLACED WASTEWATER LINE. RELAY SERVICE LATERAL WITH NEW PIPE AND NEW CLEANOUT, AND VERTICAL STACKS PER SAWS STANDARD DETAIL DD-854-02. REMOVE & REPLACE FENCES AS NECESSARY FOR RECONSTRUCTION OF SERVICE LATERALS. MATCH EXISTING FENCE SIZE AND TYPE 6. REFERENCE ABANDONMENT PLAN, SEE SHEET C13.
- CONTRACTOR TO COORDINATE WITH UNION PACIFIC 7 RAILROAD AND COMPLY WITH ALL UNION PACIFIC RAILROAD RULES, REQUIREMENTS & REGULATIONS.

