

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.

La K



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 | \$ | \$ |

| - | | | | | - | |
|----|-------|---|----|-------|----|----|
| 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

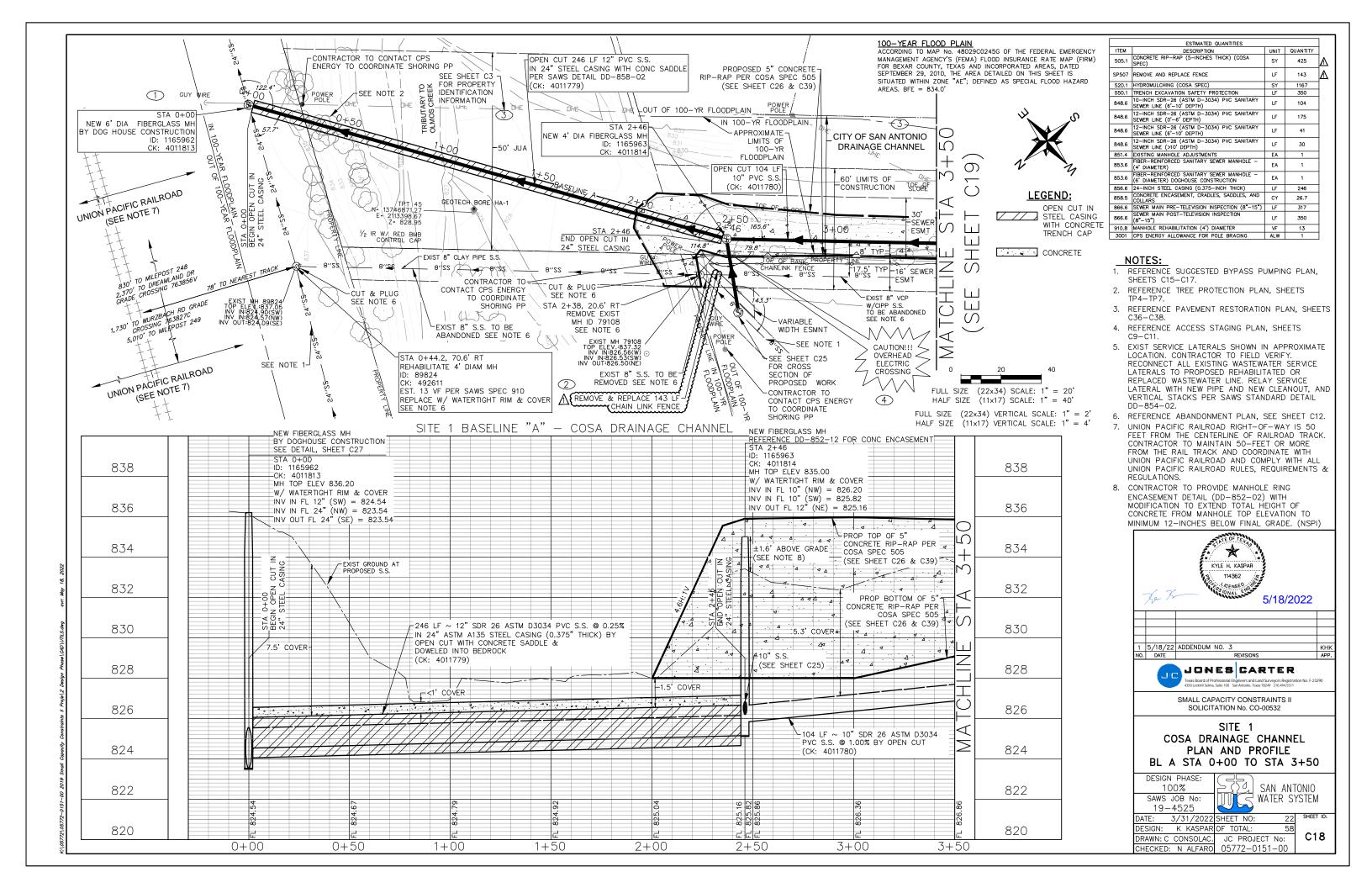
PROJECT: 2019 SMALL CAPACITY CONSTRAINTS II Phase - 100% Design

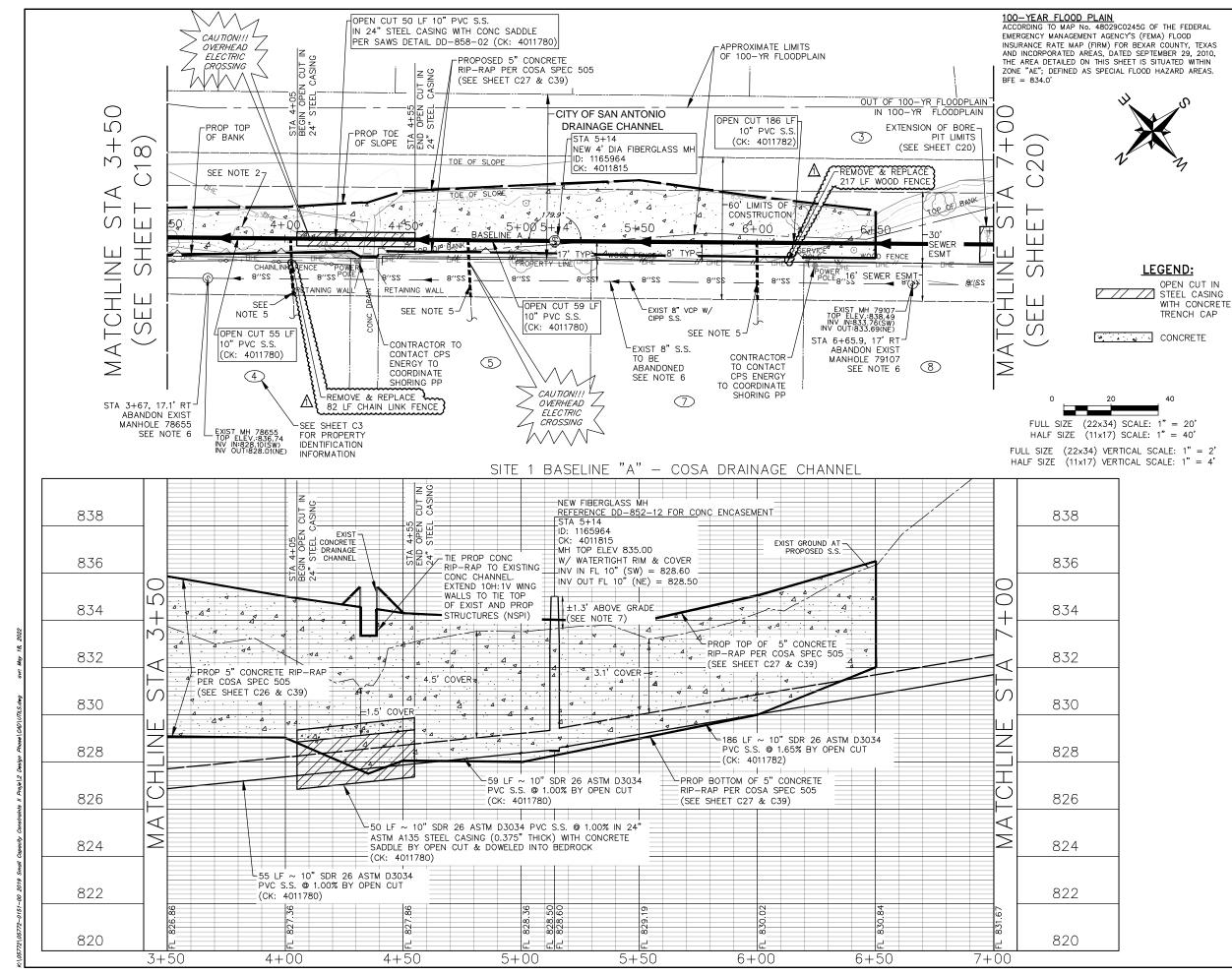
DATE: May 18, 2022 JC PROJECT NO. 05772-0151-00

| 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 | | |



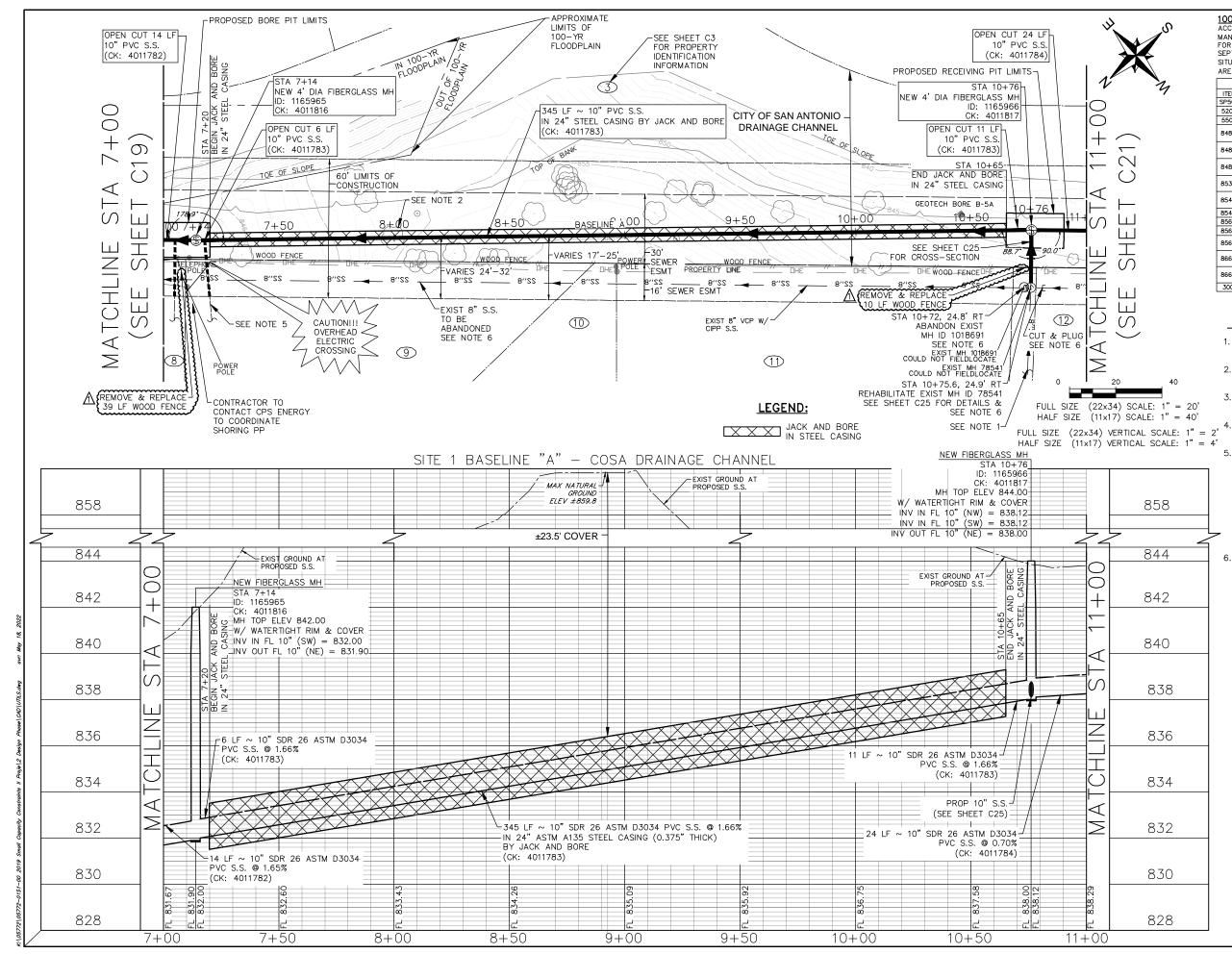




| | ESTIMATED QUANTITIES | | |
|-------|--|------|----------|
| ITEM | DESCRIPTION | UNIT | QUANTITY |
| 505.1 | CONCRETE RIP-RAP (5-INCHES THICK) (COSA SPEC) | SY | 835 |
| SP507 | REMOVE AND REPLACE FENCE | LF | 299 |
| 520.1 | HYDROMULCHING (COSA SPEC) | SY | 1167 |
| 550.1 | TRENCH EXCAVATION SAFETY 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'

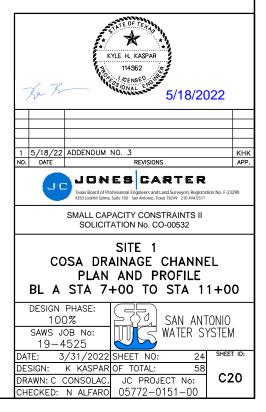
| | ESTIMATED QUANTITIES | | | |
|-------|--|------|----------|---|
| ITEM | DESCRIPTION | UNIT | QUANTITY | |
| SP507 | REMOVE AND REPLACE FENCE | LF | 49 | A |
| 520.1 | HYDROMULCHING (COSA SPEC) | SY | 183 | |
| 550.1 | TRENCH EXCAVATION SAFETY PROTECTION | LF | 55 | |
| 848.6 | 10-INCH SDR-26 (ASTM 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 | |
| | | | | |

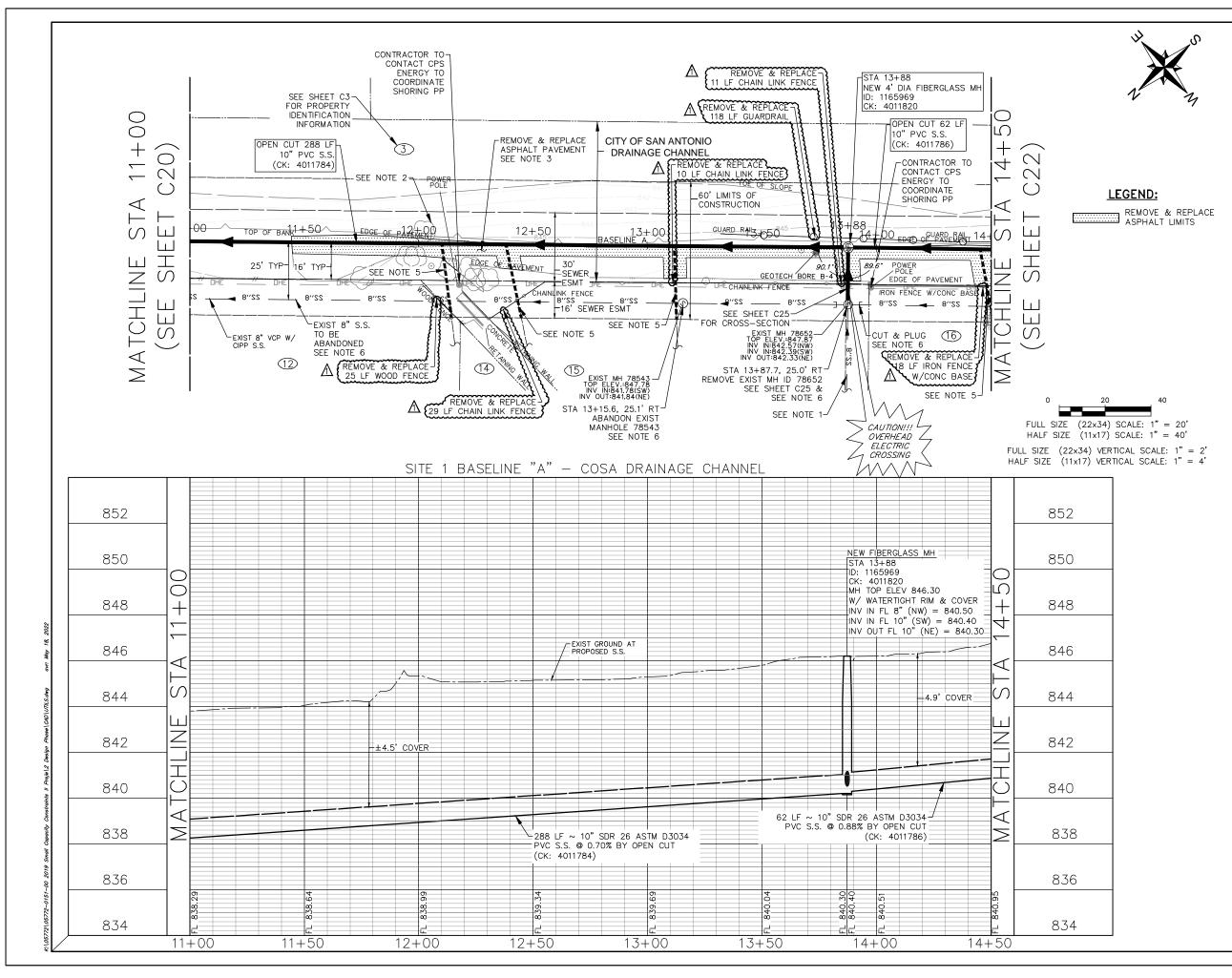
NOTES:

- 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.



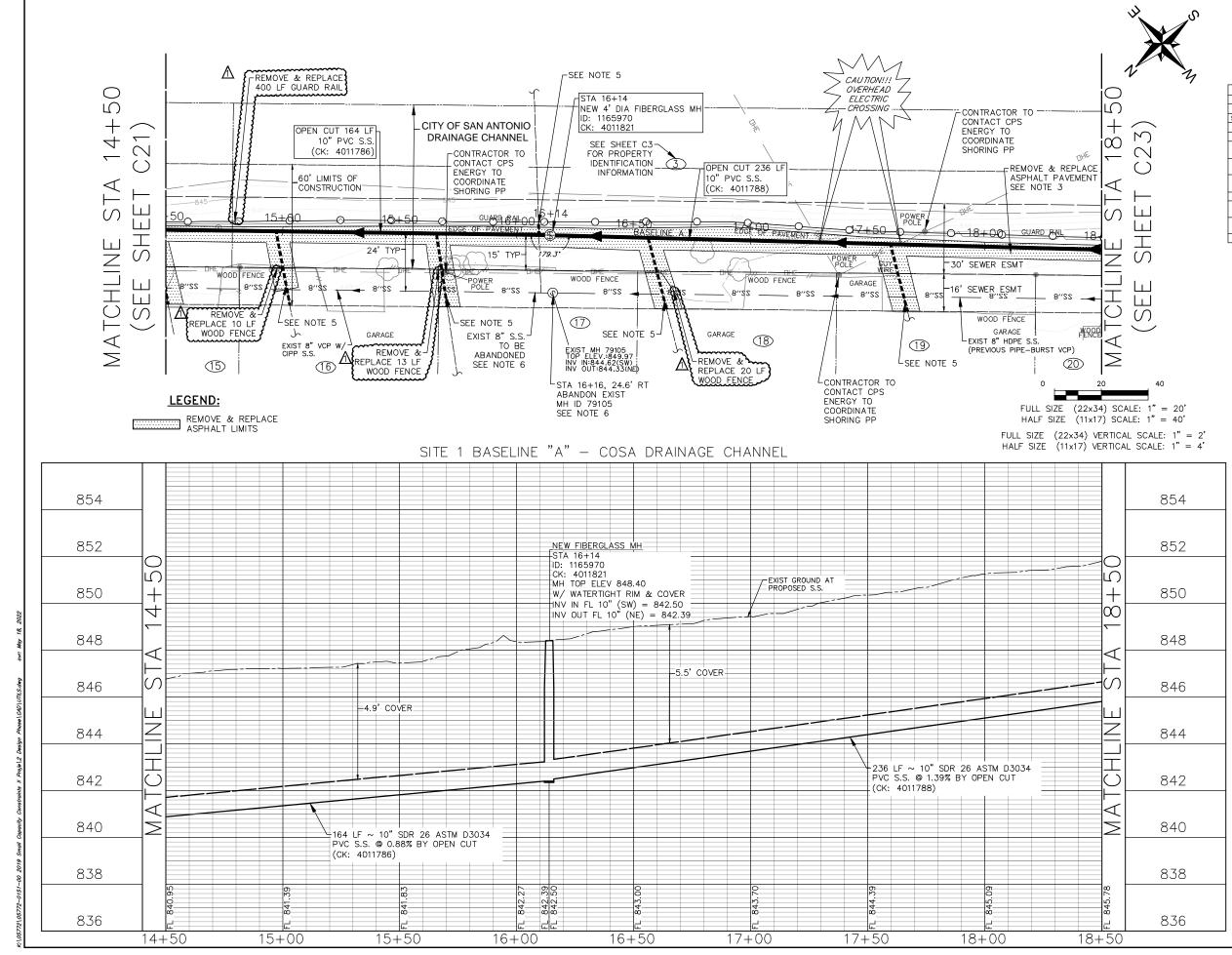


ACCORDING TO MAP No. 4802900245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE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



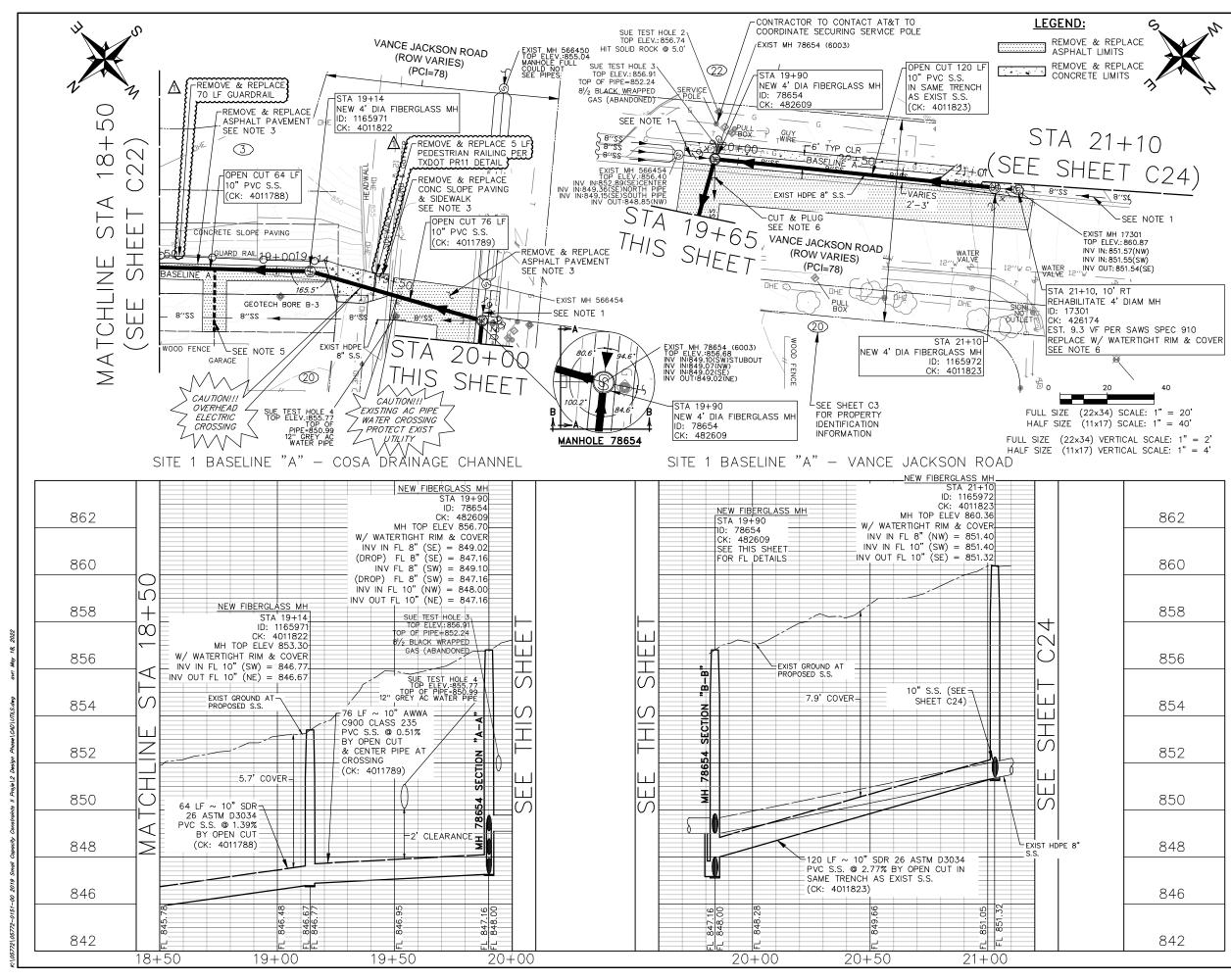


ACCORDING TO MAP No. 48029C0245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE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



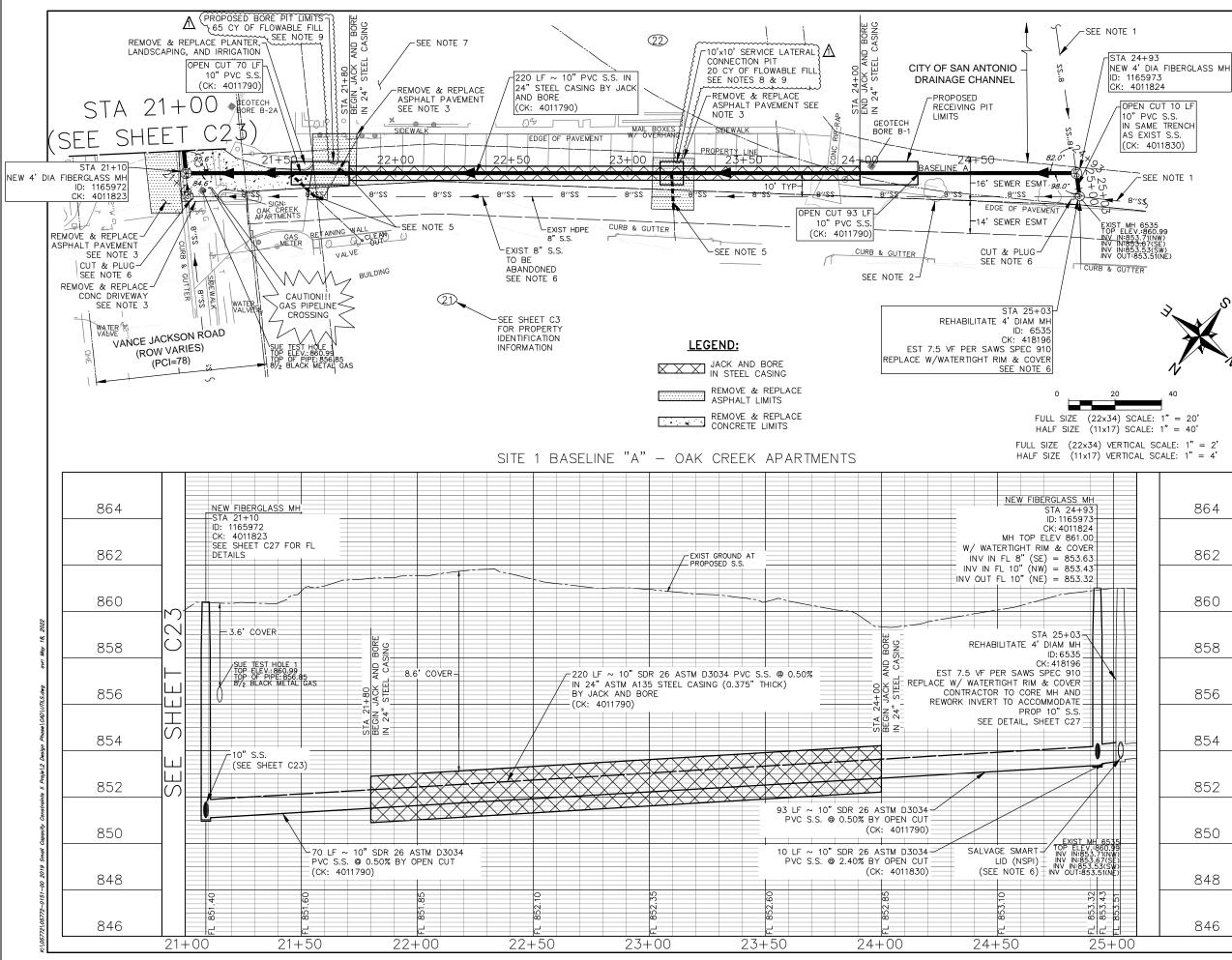


ACCORDING TO MAP No. 48029C0245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MANAGEMENT AGENCI'S (FEMA) FLOUD INSORADOL RATE MAR (TIRM, FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN 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.





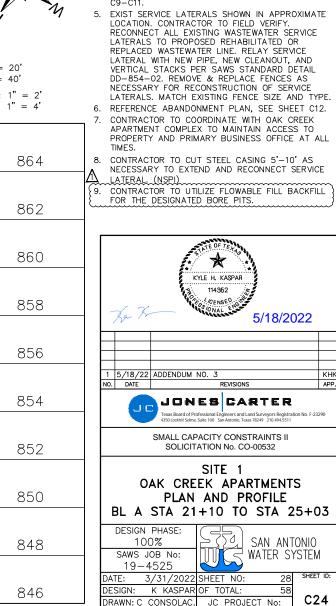
100-YEAR FLOOD PLAIN ACCORDING TO MAP No. 48029C0245G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED

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.

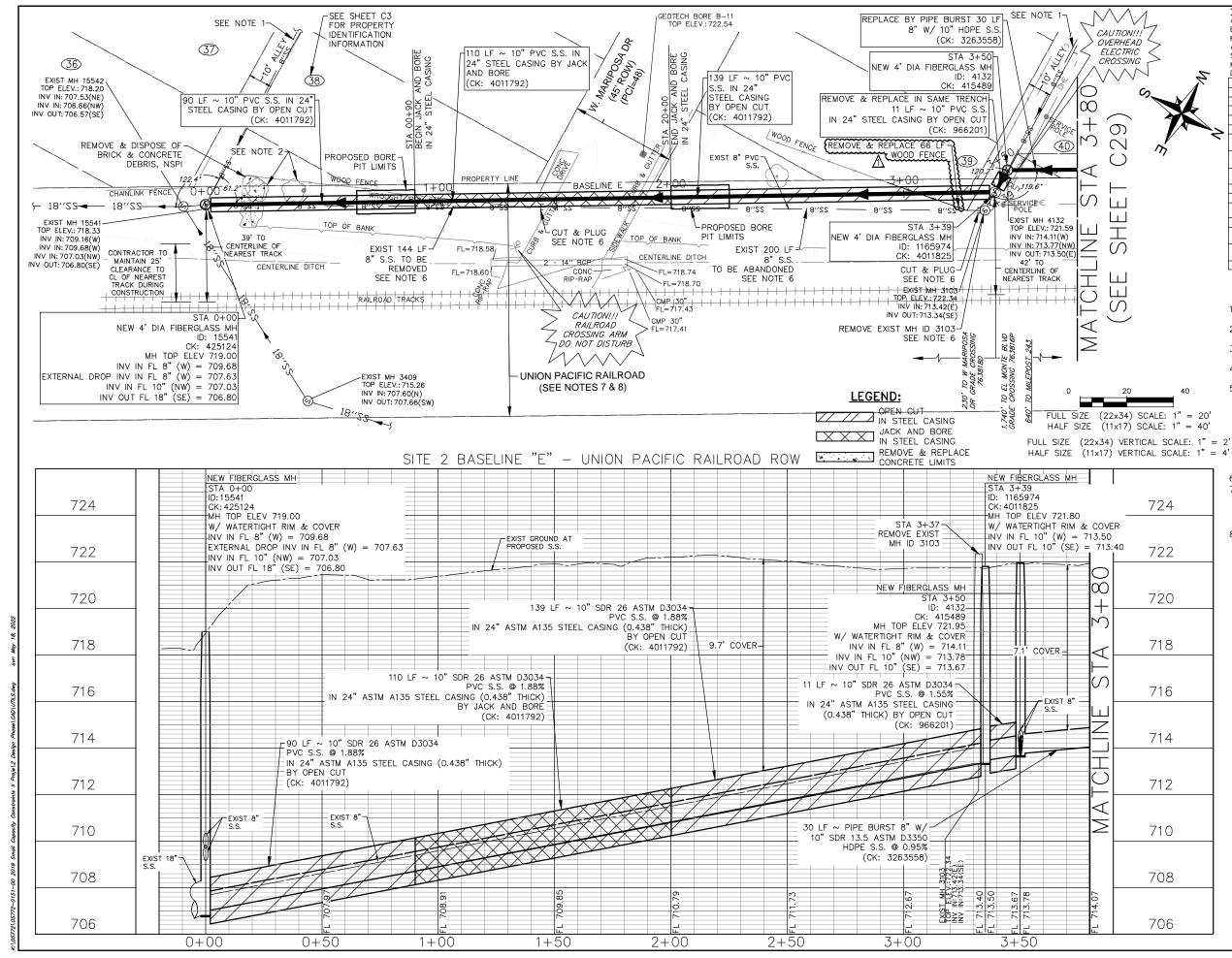


CHECKED: N ALFARO 05772-0151-00

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)

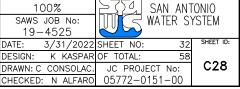


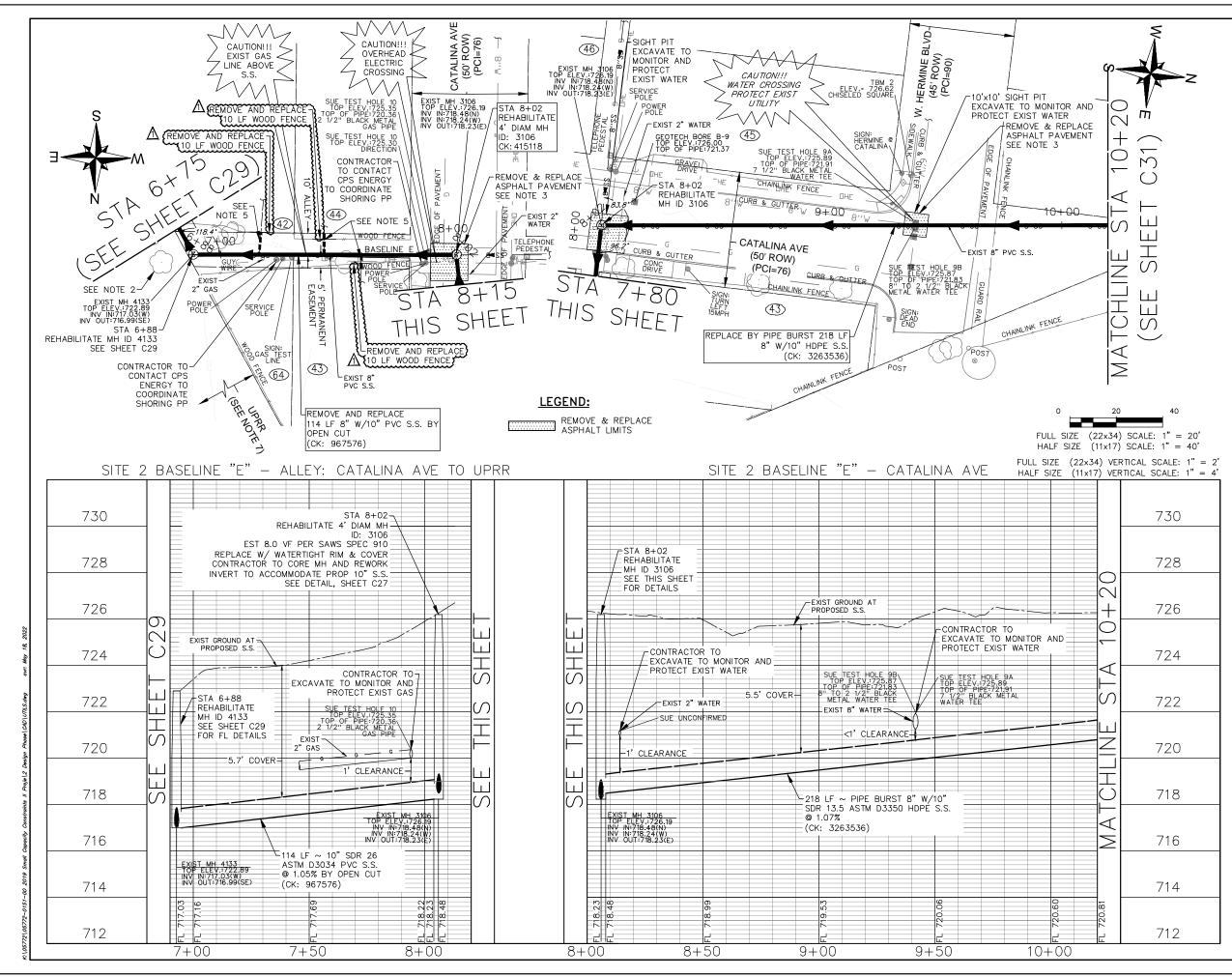


TO MAP No. 48029C0385G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) ELOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE FLOOD ELEVATION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



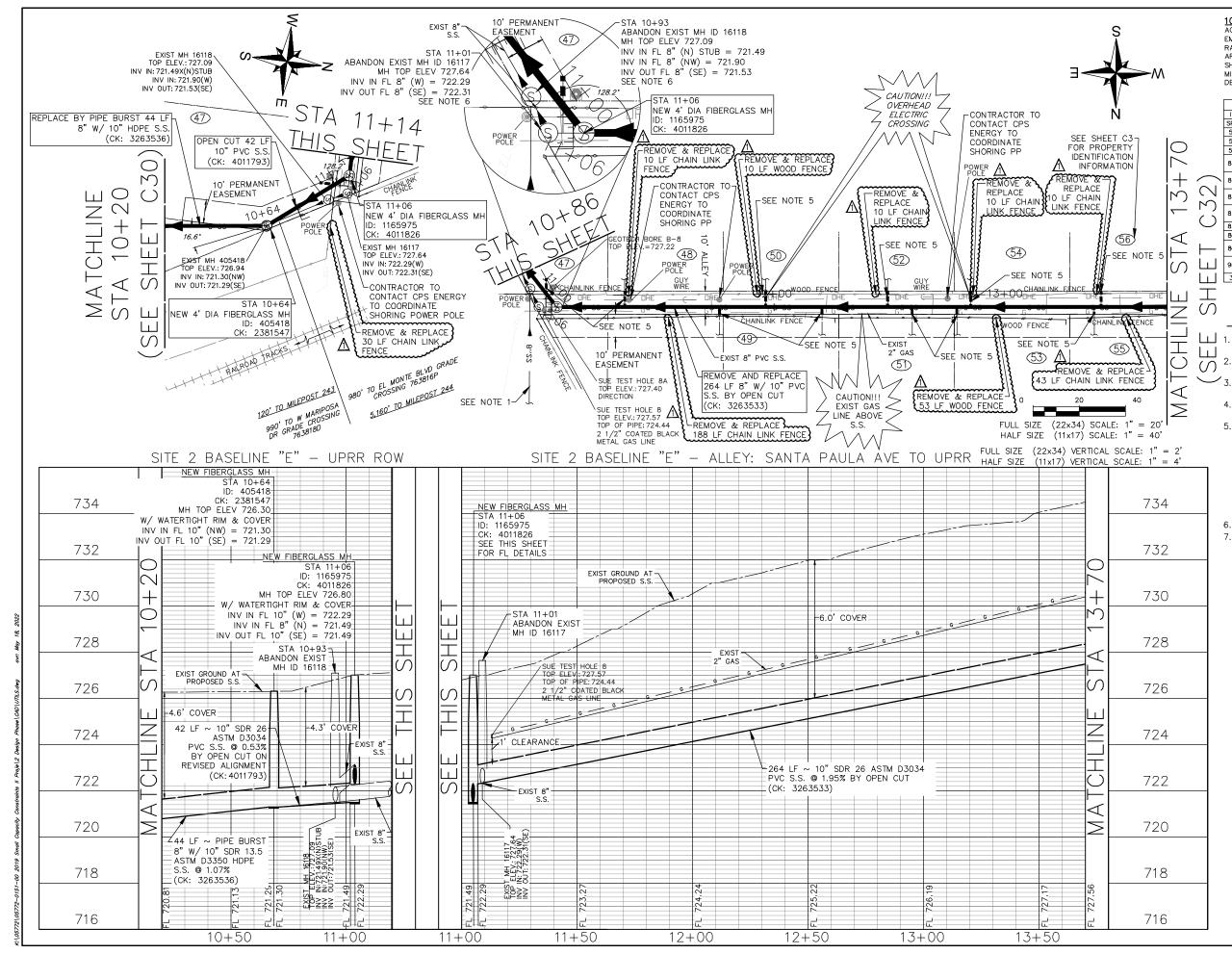


ACCORDING TO MAP No. 48029C0385G OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR BEXAR COUNTY, TEXAS AND INCORPORATED AREAS, DATED SEPTEMBER 29, 2010, THE AREA DETAILED ON THIS SHEET IS SITUATED WITHIN ZONE "X"; DEFINED AS AREAS OF MINIMAL FLOOD HAZARD. NO BASE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

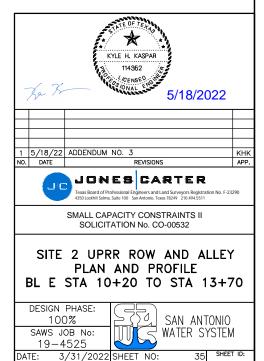
| | ESTIMATED QUANTITIES | | | |
|-------|--|------|----------|-----|
| ITEM | DESCRIPTION | UNIT | QUANTITY | 1 |
| SP507 | REMOVE AND REPLACE FENCE | LF | 364 |]/î |
| 515.1 | TOPSOIL | CY | 38 | |
| 516.1 | BERMUDA SODDING (COSA SPEC) | SY | 340 | |
| 550.1 | TRENCH EXCAVATION SAFETY PROTECTION | 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.



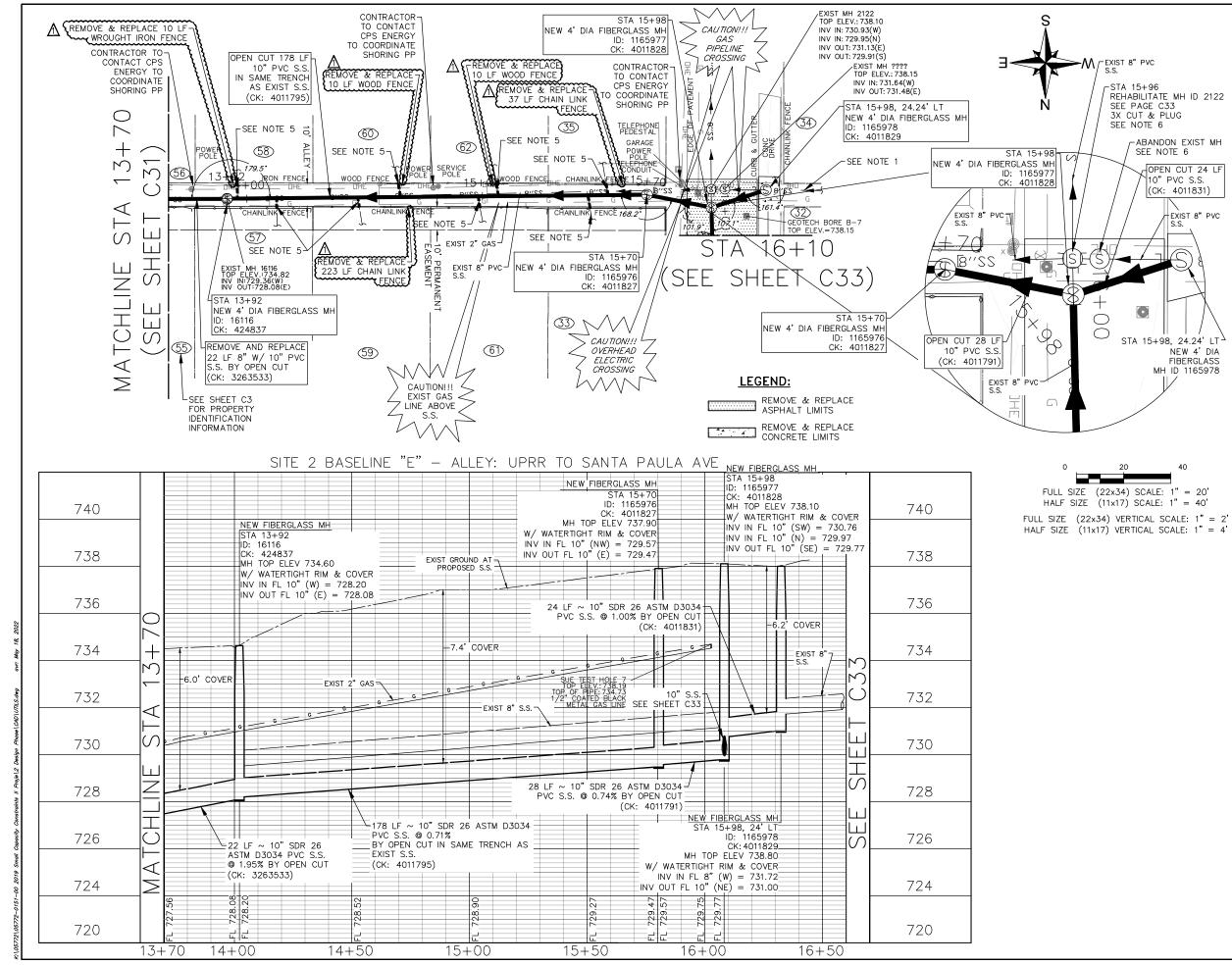
K KASPAR OF TOTAL

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.

