



ADDENDUM II

SUBJECT: Barbara Drive Drainage Phase 3 LF (2022 Bond), (WBS: 23-03927), Scheduled to Close: September 4, 2026; Date of Issue: July 31, 2026

FROM: Jaime E. Contreras
Procurement Manager

DATE: August 28, 2026

THIS NOTICE SHALL SERVE AS ADDENDUM NO. II – TO THE ABOVE REFERENCED INVITATION FOR BID

This addendum is divided into sections for convenience only. All Respondents are responsible for reviewing the entire addendum. Compliance is required for any item included in this addendum, even if it appears only once. All interested parties and affected trades must review this addendum carefully and ensure full compliance in performing the related work. All documents in this addendum shall be attached to and incorporated into the Contract Documents.

Respondents and bidders shall be responsible for reading the entire addendum. All addenda issued for this solicitation shall be attached to and become part of the solicitation and resulting contract documents for this project. By submitting a response to a City solicitation, respondent/bidder is acknowledging the receipt of this addendum.

By virtue of this addendum, the specifications, requirements and amendments stated below become a permanent addition to the solicitation referenced above and any other supporting solicitation documents and postings.

THE ABOVE INVITATION FOR BID IS HEREBY AMENDED AS FOLLOWS:

1. SUBMISSION DEADLINE

- a. Previous Submission Deadline: September 4, 2026, at 2:00 PM CT
- b. Revised Submission Deadline: September 8, 2026, at 2:00 PM CT

GENERAL INFORMATION

- 1. Revised Insurance Requirement
 - a. Additional Requirements note revised
- 2. Revised Wage Decision
 - b. General Decision Number: TX20260007 05/18/2026

CHANGES TO SOLICITATION

- 1. Revised Bid Tab
 - a. ALTERNATE 1 Subsection “COSA” revised to: COSA Alternate 1
 - b. ALTERNATE 1 Subsection “SAWS WATER” revised to: SAWS WATER Alternate 1
 - c. ALTERNATE 1 Subsection “SAWS SEWER” revised to: SAWS SEWER Alternate 1

Finance Department, Procurement Division

P.O. Box 839966 | San Antonio, Texas 78283-3966 | 210.207.5734

**QUESTIONS SUBMITTED IN ACCORDANCE WITH 040 STANDARD INSTRUCTIONS TO
BIDDER/RESPONDENT RESTRICTION OF COMMUNICATIONS:**

QUESTIONS SUBMITTED ON CIVCAST

- Question 1: The invitation for bids breaks down the base bid by CoSA, SAWS water, SAWS sewer, and CPS. The alternate is not shown broken out. Is the alternate for COSA only or is there a breakout that can be provided?
- Response: Refer to CHANGES TO SOLICITATION; 1a, 1b, and 1c.
- Question 2: Certain callouts and dimensions are depicted using dotted lines throughout the plans, rendering them illegible. Could you please revise.
- Response: Design team is unable to identify any dimensions or callouts in dotted lines.
- Question 3: Looks like pay items under the SAWS Sewer improvements shown on the bid tab are out of order/incorrect.
- Response: The order of the items has been corrected.
- Question 4: Where are the water barriers paid under?
- Response: Pay Item TXDOT 7114-7001 WATER FILLED BARRIER, has been added to the bid table. A specification for TXDOT 7114 WATER FILLED BARRIER has been added to the Project Manual
- Question 5a: Reference Page 4 of 18 and 12 of 18 of the CPS plan sheets. The 2PA to be installed is shown at a depth of 5' from existing grade on the profile from tie in to tie in, however, on the Location Data Table the call out depth is 5', 8.7', and 15.2' from existing grade. Please revise the plan profile or the Location Data Table to reflect actual planned depth of the 2PA.
- Response: See updated Pg 4 and Pg 12.
- Question 5b: There are several locations shown on the Location Data Table called to be installed via bore, however, the depths and sizes of the existing utilities the gas is to cross does not seem to warrant bore installation. If bore is the preferred method of installation, please provide footages for each of the following locations CPS/COSA is planning to pay bore prices for and consider adding a 2" and 4" bore bid item: Location Data Table #'s 26 & 27, 29, 30 & 31, 32 & 33, 35, 38 & 39, 41.
- Response: Unit pricing updated to include 2" and 4" bore items.
- Question 6: In regards to the existing 16" CPSE gas pipe, please provide information for the following: 1) Pipe Grade. 2) Pipe Wall. 3) Design Code. 4) Design Factor. 5) MAOP/MOP. 6) Operating Pressure. 7) Flow Rate expected at time of tie in. 8) Min and Max Temperature. 9) Is there any circumstance where CPS will require a double stopple bypass on the 16" main or will this work be expected to be completed when temperatures are above the constraint limit?
- Response: Pipe Specs listed on Pg 2 of 18: 16.00" O.D. x 0.312" W.T., X-42 min, F.B.E Coating, MAOP 274 PSIG. Tie-in of the 16" line should be completed when temperatures are greater than 65 degrees.

- Question 7: Mountable curb is called out on sheets 72, 74, 76, 77, 78, and 79 but are not included in the bid tab. Most are called out at the alleys while some are in front of driveways. Can the plans be adjusted to properly indicated where mountable curb will be required? Will the bid tab be revised to reflect mountable curb?
- Response: The plans indicated the curb lengths centered on the driveways at alleys and driveways. The mountable curb is to be paid under Item 500.5 Mountable Curb. A Special Provision to specification 500 has been added the Project Manual to address the pay item. The plans have been updated. Revised sheets 72,74,76,77,78,79 are attached
- Question 8: What are the requirements for Good Faith Effort?
- Response: Please refer to the Contracting Goal Waiver Request form, which can be found at the following link: <https://www.sa.gov/Directory/Departments/EDD/Programs-Grants/Preference/SBEDA/Forms>.
- Question 9: Will the City designate where the excess spoils will be hauled to?
- Response: No, City does not have a designated site for excess spoils. Contractor must follow Excess Spoil Disposal General Notes as shown on Sheet 16.
- Question 10: Is there a certified list of contractors for the CPS Energy portion of the project? If so, could you please provide that list?
- Response: Miller Bros
Mastec
Mears
Benton-Georgia
Dimension
Harper Bros (HBU)
Medina Utilities
- Question 11: Given the depth and extent of box culvert excavation and temporary shoring in close proximity to adjacent residential structures along Barbara Dr, Oblate Dr, Dellwood Dr, and El Montan Ave, will vibration or seismic monitoring of adjacent structures be required during construction? If so, please identify the applicable pay item, monitoring thresholds, and whether pre-construction condition surveys of adjacent residences are required.
- Response: Per general notes on plan sheets, no driven piles are allowed for this project. Although vibration or seismic monitoring is not mandatory, the absence of such a requirement shall not relieve the Contractor of its responsibility to evaluate construction-related vibration, ground movement and settlement that may adversely affect adjacent structures or property. The Contractor shall be solely responsible for the design, installation, maintenance and removal of all temporary special shoring and construction supports required to safely execute the work. The Contractor shall independently evaluate site conditions and provide continuous protection to all adjacent structures and their foundations throughout all phases of construction. The temporary special shoring methods suggested on the plan sheets are provided for the Contractor's reference only and shall not relieve the Contractor of any responsibility for the design, adequacy, stability, installation, maintenance, or removal of the temporary shoring and construction support systems."

- Question 12: Section 010 references award to the 'lowest responsible bid' and separately cites the Responsible Bidder Ordinance (No. 2023-01-26-0041). Please confirm: (1) will award be based on lowest price alone, or on a determination of 'lowest responsible bidder' that includes qualification/responsibility factors such as past performance, bonding capacity, and safety record; (2) what specific criteria and documentation will the City use to evaluate bidder responsibility beyond price; and (3) at what stage in the process (before or after bid opening) will responsibility determinations be made.
- Response: Refer to 040 Standard Instructions to Respondent for further details. Section 7 of 040 Standard Instructions to Respondent has further details regarding the Responsible Bidder Ordinance. Bids received for the solicitation are evaluated after bid opening.
- Question 13: The posted Wage Decision (TX20260291) is classified as 'Highway' construction. Given the scope of work is primarily storm drainage box culvert installation and utility relocation rather than roadway paving, will the City confirm this is the correct wage classification, or will a 'Heavy' construction wage decision be issued via addendum.
- Response: Refer to GENERAL INFORMATION 2. in this addendum
- Question 14: Section 010 IFB states the project does not include hazardous environmental work, yet the Insurance Requirements document requires Contractor's Pollution Liability coverage. Please clarify what specific activity (e.g., dewatering discharge, contaminated spoil, USTs) drives this requirement, or confirm whether this coverage can be waived.
- Response: Per the scope of work all contractors are required to provide pollution insurance. The fuel used for this work contains hazardous chemicals/materials. It also states there will be street restoration requiring laying down asphalt which contains hazardous material. This coverage will remain on the insurance table.
- Question 15: Item 6 (Builder's Risk) is marked 'Not Applicable,' but the stated scope includes installation of new box culverts and SAWS infrastructure modification, which is the stated trigger for this coverage. Please confirm this exemption is intentional and will not be revised by addendum.
- Response: Builder's Risk is not required as a structure is not being built. If Builder's Risk is to be submitted in lieu of installation floater for this project a waiver will need to be submitted. Based on the scope of work installation floater would cover the materials used to build the box culverts.
- Question 16: Please confirm the required Umbrella/Excess Liability limit — the coverage table lists \$10,000,000 while the Additional Requirements note states the limit should be increased to \$15,000,000. Will this be waived or corrected by addendum?
- Response: Refer to GENERAL INFORMATION 1. in this addendum.
- Question 17: The IFB identifies a combined Alternates budget of \$3,306,598.86. Please confirm the total number of bid alternates, a brief scope description for each, and whether Contractual Milestones/Liquidated Damages will be defined for alternates beyond Alternate #1 if multiple alternates are awarded.
- Response: This project has one Base Bid and one Additive Alternate. The base bid work includes the street reconstruction work on El Montan from Shadywood Lane to Pinewood Lane with associated joint bid utility work and the street reconstruction work and new box culvert system on Barbara, Oblate and on Dellwood from Oblate to just north of Meadowood Lane including joint bid utility work. Additive Alternate 1 includes the

street reconstruction and box culvert system just north of Meadowood Lane to just south of Shadywood Lane and related associated work including joint bid utilities.

Question 18: Please clarify the Driveway Closure fee structure in Section 060, Item 4 (Milestone 4): is the \$250.00 per day assessed per individual driveway exceeding the 60-day closure limit, or as a single daily rate regardless of the number of driveways closed?

Response: The driveway closures are required at each specified location on the 060 Form per addresses listed. The driveway closures are per each location, and the closure starts the day the driveway(s) is (are) closed and they are per each driveway closure.

Question 19: Given the Local Preference Program's Construction Services price-preference threshold caps at contracts under \$100,000, please confirm that no price preference will be applied to this \$14,599,454.70 solicitation, and that the form is being collected for informational/compliance purposes only.

Response: The Local Preference Program Form is being collected for informational/compliance purposes only for this solicitation and is required to be submitted.

Question 20: Sheet 17 references a Phase II ESA and requires monitoring for organic-vapor-impacted soil between Barbara Dr Sta 18+25–19+40. Given IFB Section 010 states the project 'does not include hazardous environmental work,' please (1) provide or reference the Phase II ESA report, (2) clarify what pay item covers offsite disposal of impacted soil that cannot be reused onsite, and (3) confirm whether this affects the Contractor's Pollution Liability requirement in the Insurance Requirements document.

Response: The environmental monitoring section on sheet 17 is not required for this project and shall be removed from the sheet.

Question 21: Given the documented groundwater depth variance (8.5 ft near Shadywood vs. 22.5 ft at Oblate) and the note that groundwater/infiltration may vary seasonally, why is Item SS1 (Diversion and Care of Water) structured as a single lump sum rather than a unit-price or measured item? How should bidders account for dewatering cost risk on a fixed lump sum given this documented variability.

Response: Special Specification 1 provides flow information for multiple theoretical storm events within the project area. Hydrologic and hydraulic models of the existing site conditions may be made available, upon request, for the contractor's use. Groundwater data from geotechnical sampling has been provided. Contractor will provide a Care of Water plan, a plan showing the proposed method for diverting storm water runoff from the project area including dewatering of the Structural and Channel Excavation items, for review by the City.

Question 22: For Allowance Item 1005 (CPS Energy Utility Pole Bracing), please clarify: (1) how the 16-week CPS coordination lead time factors into the 540-calendar-day project schedule.

Response: Contractor is responsible for pole bracing and there is a 3–4-month lead time to schedule pole bracing.

Question 23: The SAWS Joint Bid Contract Acknowledgment included in the bid documents references extended warranty and insurance requirements that appear to exceed the CoSA's requirements. Please clarify whether the additional costs associated with these enhanced warranty durations and increased insurance limits are to be included in the base bid, or if the Owner intends to compensate this requirement separately

(e.g., via allowance, bid item, or change order). Additionally, please confirm the specific coverage limits, duration, and any project specific endorsements required so proposers can accurately quantify the cost impact.

Response: Costs for all warranty and insurance requirements should be included in the base bid. Insurance requirements should conform to Article XI, Insurance and Bonds, as amended and supplemented by Exhibit V of the SAWS Joint-Bid Acknowledgement which details endorsement, durations, and limits.

Question 24: On the saws water sheets on all of El Montan, sht 13 at Shadywood and the Alley, sht 14 at Beechwood, Alley and Maplewood, sht 15 at alley and Springwood and sht 16 at Alley there are notes concerning new main, tie-ins, bends, blow offs, Tees and gate valves but the items are not on the drawing. There are other areas as on sht 13 at sta 6+80 which calls for a FH and nothing is drawn showing the FH. Same with sta 7+93 to +/- 8+15 a vert adjustment with four bends is called out at the alley but no bends are drawn. Can these areas be revised to show the items being called out? Or, if these items are not to be part of the project, can these items notes be eliminated?

Response: See revised water sheets 13, 14, 15, and 16 that include the drawn 8" PVC Waterlines for clarity.

Question 25: I working with the SAWS sewer plans the document properties show it is "protected" and any changes are restricted. Can the password be obtained or can a new document be provided that is without any restrictions?

Response: Per the State Legislature, the plans containing a seal must be locked to prevent any modifications. However, the plans remain available to print.

Question 26: For bypass pumping, is HDPE pipe required for discharge piping or can we use heavy duty discharge hoses? Please advise

Response: All materials used for bypass pumping shall conform to SAWS Material Specifications and standards. Contractor shall refer to specification "865 Bypass Pumping Small Diameter Sanitary Sewers Mains" and other applicable specifications for acceptable materials for bypass operations.

Question 27: on the sewer base bid pay items starting with pay item 507.3 through 866, it appears that all pay items unit of measure and qty are not corresponding with the bid items. example # 848 ---21" pvc sanitary sewer line ---ea 3 . please verify that this should be LF and 642.30.

Response: The order of the items has been corrected.

Question 28: base bid saws pay item 852 are for sanitary sewer structures. plans call out both 5' and 6' dia. Can this pay item be broken down into the two sizes identified in the plans?

Response: A revised bid tab will be included in the addendum, separating the sanitary sewer structures by diameter.

Question 29: Please add a pay item for water barrier needed.

Response: See response to Question 4

Question 30: Does the 540 calendar days include the time for the alternate?

Response: As broken down in 060 Supplemental Conditions, Substantial Completion is 540 calendar days for the base bid and Alternate #1 would add 60 calendar days, for a total of 600 calendar days if both the base bid and the alternate are awarded.

- Question 31: The callouts for the 8" PVC Waterline on sheets 13,14,15,16 are not very clear. Can you please provide a better detail of what you want here?
- Response: See the revised water sheets 13, 14, 15, and 16 that include the drawn 8" PVC Waterlines for clarity.
- Question 32: The fire hydrants on sheets 13,14, and 16 of the SAWS Water plans are not called out in the plans. Please advise.
- Response: See the revised water sheets 13, 14, 15, and 16 that include the drawn fire hydrants.
- Question 33: Can you please provide Prep Right of Way items for the SAWS alternates? There are multiple NSPI Items that need to be picked up in prep right of way
- Response: Sheet 2 of the water plan sheets that includes line items for Prep Right-of-Way, Mobilization, and Pole Bracing for the Alternate Bid. Please note that the Prep Right-of-Way line item for the water plans only accounts for SAWS line items, not COSA line items.
- Question 34: It appears that trench repair is subsidiary to the SAWS Waterline items. Is this the case as well in the SAWS Sewer plans? it looks like there are bid items for the sewer to cover this. Is this correct?
- Response: Please refer to SAWS, CoSA, and project specifications for items that are subsidiary to each bid item.
- Question 35: Where does the 6" sanitary sewer lateral and cleanouts on sheet 13 of 16 pay for?
- Response: Pay item 854, SANITARY SEWER LATERALS, LF, 41 and pay item 854, TWO-WAY SANITARY SEWER CLEAN-OUT, EA, 1, has been added to the bid table for the BASE BID SAWS Sewer
- Question 36: Sheet 148 of 183 in the COSA drawings has a note pointing to the fill above the 10'x9' boxes. It says "suitable on site excavated material. See spec 106. Subsidiary to pay item for box culvert. Verify PI before backfill." Spec 106 doesn't have a specific PI requirement. Will the excavated material meet the PI specification and be able to be used above the boxes or do we need to bring in select fill?
- Response: Per the project geotechnical report the pavement subgrade should have a PI of 20 or greater and based on the results of testing performed upper 5 ft of existing subgrade materials by the geotechnical engineer the PI values are generally above 20.
- Question 37: What is the detail to tie into the existing 10'x9' RBCs on sheet 124? The note says to see sheet 137, but the detail on sheet 137 is for the new transition structure. Not the tie in to the existing. Please advise.
- Response: Reference to sheet 137 has been removed from the callout. 12" of reinforcement of the existing MBC should be exposed for tie-in.
- Question 38: Will an Owner's field office be required?
- Response: Per specification section 526 and 526 Special Provision a field office is required where the total contract amount (including Joint Bid Utilities) is one million dollars or greater.
- Question 39: Who is responsible for testing for this project?
- Response: The contractor is required to perform Quality Control (QC) Testing and COSA and any joint bid utilities handle Quality Assurance (QA) Testing

- Question 40: There is only one bypass shown for the sewer work within the alley way located in between springwood and pinewood. We are needing a suggested bypass plan for the sewer work within the alley way located in between alley way between shadywood and beechwood In.
- Response: The bypass depicted in the plans remains as a suggestion. The contractor shall be responsible for evaluating the site and submitting a bypass plan for subsequent review and approval before commencement of construction. The contractor may follow a similar bypass route shown on Sheet 15 for work on El Montan.
- Question 41: What is the anticipated start date for the project?
- Response: February 2027
- Question 42: Do you expect any delays from utilities that need to be relocated?
- Response: No expected delays from utilities that will need to be relocated at this time.
- Question 43: Is there going to be a pay item for temporary water and sewer service while laying the proposed 3 - 10'x9' MBC?
- Response: See utility plans for relocations of water and sewer allowing the installation of the 3 – 10'x9' MBC to be constructed without disruption of services.

REVISIONS TO CONSULTANT'S DOCUMENTS (SPECIFICATIONS, PLANS, BID FORM, ETC.)

Consultant's revisions will be issued as an attachment to this addendum.

1. Bid Form

a. Added the following quantities

- BASE BID – COSA, 500.5, MOUNTABLE CONCRETE CURB, LF, 118.6
- BASE BID - COSA, TXDOT 7114-7001 WATER FILLED BARRIER, LF, 497
- BASE BID - SAWS Sewer, 100, MOBILIZATION, LS, 1
- BASE BID - SAWS Sewer, 101, PREPARATION OF RIGHT-OF-WAY, LS, 1
- BASE BID - SAWS Sewer, 850, POLYMER CONCRETE SANITARY SEWER STRUCTURE (6' DIA), EA, 1
- BASE BID - SAWS Sewer, 854, SANITARY SEWER LATERALS, LF, 41
- BASE BID - SAWS Sewer, 854, TWO-WAY SANITARY SEWER CLEAN-OUT, EA, 1
- BASE BID - CPS Energy Gas, 2, INSTALL 2" PLASTIC PIPE WITH TRACER WIRE BY BORE, LF, 240
- BASE BID - CPS Energy Gas, 4, INSTALL 4" PLASTIC PIPE WITH TRACER WIRE BY BORE, LF, 130
- ADD ALT - COSA – 500.5, MOUNTABLE CONCRETE CURB, LF, 32
- ADD ALT - SAWS Water, 100, MOBILIZATION, LS, 1
- ADD ALT - SAWS Water, 101, PREPARATION OF RIGHT-OF-WAY, LS, 1
- ADD ALT - SAWS Sewer, 100, MOBILIZATION, LS, 1
- ADD ALT - SAWS Sewer, 101, PREPARATION OF RIGHT-OF-WAY, LS, 1

b. Revised the following quantities

- BASE BID - COSA, 500.4, CONCRETE CURB AND GUTTER, LF, 4369.4
- BASE BID - COSA, 500.4, CONCRETE CURB AND GUTTER, LF, 412

- BASE BID - SAWS Sewer, 507.3, CHAIN LINK WIRE FENCE, LF, 20
- BASE BID - SAWS Sewer, 515.1, TOPSOIL, CY, 3
- BASE BID - SAWS Sewer, 516.1, BERMUDA SODDING, SY, 19.14
- BASE BID - SAWS Sewer, 550, TRENCH EXCAVATION SAFETY PROTECTION, LF, 1007
- BASE BID - SAWS Sewer, 848, 8" PVC SANITARY SEWER LINE (ALL DEPTHS) ASTM D2241 SDR26, LF, 298
- BASE BID - SAWS Sewer, 848, 21" PVC SANITARY SEWER LINE (ALL DEPTHS) ASTM D2241 SDR26, LF, 67
- BASE BID - SAWS Sewer, 848, 21" PVC SANITARY SEWER LINE (ALL DEPTHS) ASTM F679, LF, 642.3
- BASE BID - SAWS Sewer, 850, POLYMER CONCRETE SANITARY SEWER STRUCTURE (5' DIA), EA, 2
- BASE BID - SAWS Sewer, 852, SANITARY SEWER MANHOLES (4' DIA), EA, 7
- BASE BID - SAWS Sewer, 852, SANITARY SEWER MANHOLES (4' DROP), EA, 5
- BASE BID - SAWS Sewer, 852, SANITARY SEWER MANHOLES (EXTRA DEPTH), VF, 25
- BASE BID - SAWS Sewer, 858, CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS, CY, 41
- BASE BID - SAWS Sewer, 862, ABANDONMENT OF SANITARY SEWER MAIN (18-INCH), LF, 224
- BASE BID - SAWS Sewer, 865, BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS), LS, 1
- BASE BID - SAWS Sewer, 866, SEWER MAIN PRE-TELEVISION INSPECTION (8"-15"), LF, 577
- BASE BID - SAWS Sewer, 866, SEWER MAIN PRE-TELEVISION INSPECTION (18"-24"), LF, 1013
- BASE BID - SAWS Sewer, 866, SEWER MAIN POST-TELEVISION INSPECTION (8"-15"), LF, 298
- BASE BID - SAWS Sewer, 866, SEWER MAIN POST-TELEVISION INSPECTION (18"-24"), LF, 709
- ADD ALT - SAWS Sewer, 850, POLYMER CONCRETE SANITARY SEWER STRUCTURE (5' DIA), EA, 1

2. Plans

- a. COSA Plans - Replace Sheets 17-20, 34, 35, 72,74,76,77,78,79
- b. SAWS Water Plans – Replace Sheets 2, 13,14,15,16
- c. CPS Gas Plans – Replace Sheets 4, 7, 12

3. Specifications

- a. Revised Project Manual Section 3 Special Provision to include the following paragraphs:
 “Item 500 Concrete Curb, Gutter, And Concrete Curb and Gutter
 Add Pay Item 500.5 – Mountable Concrete Curb – per linear foot”
- b. Revised Project Manual Section 5 to include TXDOT 7114 WATER FILLED BARRIER
- c. Replace CPS Energy EXHBIT GAS-5, COMPENSATION SCHEDULE.

SIGNED AND SEALED BY CONSULTANT (Engineer/Architect of Record). By signing and sealing this addendum, the Engineer/Architect of Record acknowledges that the sign/seal is only for changes/clarifications to the items associated with the Engineer's/Architect's work referenced in this addendum.



Jaime E. Contreras

Jaime E. Contreras
Procurement Manager
Finance Department, Procurement Division

WATER HANDLING NOTES

CONTRACTOR IS RESPONSIBLE FOR CONTROL AND DIVERSION OF SURFACE WATER AND STORMWATER FROM UPSTREAM STORM FACILITIES THAT ENTER THE TRENCH AND PROJECT SITE.

THE PROJECT LIMIT FROM BARBARA THROUGH DELLWOOD ARE WITHIN THE FEMA 100-YEAR FLOOD PLAIN.

GROUND WATER WAS IDENTIFIED AT OBLATE AT A DEPTH OF 22.5 FEET AND APPROACHING SHADYWOOD AT A DEPTH OF 8.5 FEET. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR MORE DETAILS. GROUNDWATER AND INFILTRATION MAY VARY BASED ON SEASONAL CONDITIONS. THE CONTRACTOR MAY CONSULT WITH GEOTECHNICAL CONSULTANT FOR ADDITIONAL INFORMATION BEYOND THE GETOECHNICAL REPORT, AT THEIR EXPENSE. CONTRACTOR MUST PROVIDE THE CITY WITH A DEWATERING PLAN FOR REVIEW WITH SHOP DRAWING SUBMITTALS. SEE SPECIAL SPECIFICATION SS1 DIVERSION AND CARE FOR WATER FOR ADDITIONAL INFORMATION.

CONTRACTOR AND CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, STRUCTURAL DESIGN/GEOTECHNICAL /SAFETY/EQUIPMENT CONSULTANTS, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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OSHA TRENCH SAFETY

TRENCH EXCAVATION SHALL COMPLY WITH MINIMUM STANDARDS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, REGULATIONS STANDARDS - 29 CFR - "EXCAVATION" - 1926 SUBPART P.

TRENCH SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SHOP DRAWINGS FOR DETAIL PLANS AND SPECIFICATIONS TO PROVIDE ADEQUATE SHORING AND SHEETING STANDARDS THAT MEET THE OSHA STANDARDS AS SET OUT BY STANDARDS - 29 CFR - EXCAVATION" - 1926 SUBPART P FOR TRENCH SAFETY.

CONTINUOUS INSPECTION OF ALL TRENCH EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR JOB SUPERINTENDENT. THE CONTRACTOR CONTROLS THE SIZE, WEIGHT, AND SPEED OF OPERATION OF EQUIPMENT AND PIPE INSTALLATION, WHICH DIRECTLY AFFECTS ALL SAFETY MEASURES IN A TRENCH. IF PROBABLE CAUSE OF UNSAFE TRENCH CONDITIONS EXIST, ALL WORK SHALL CEASE IMMEDIATELY UNTIL NECESSARY PRECAUTIONS TO SAFEGUARD EMPLOYEES ARE TAKEN.

ITEM 551.1 TEMPORARY SPECIAL SHORING APPLIES TO THE CONSTRUCTION OF THE PROPOSED MULTI-BOX CULVERTS. ALL OTHER EXCAVATION TO BE CONSIDERED PART OF ITEM 550.1 TRENCH EXCAVATION SAFETY INSPECTION.

SWPPP GENERAL NOTES

THE CONTRACTOR SHALL BE OPERATOR AS DEFINED BY THE TPDES GENERAL PERMIT. THE OPERATOR WILL PREPARE, SUBMIT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS AND PERMITS, AND HAVE A DAY TO DAY OPERATIONAL CONTROL OF THE CONSTRUCTION ACTIVITIES. CONTRACTOR WILL ENSURE COMPLIANCE WITH SWPPP FOR THE SITE OR OTHER CONSTRUCTION GENERAL PERMIT CONDITIONS, SEE SPECIFICATION 540.

THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE GENERAL PERMIT (TXR150000). IMPLEMENT THE STORM WATER POLLUTION PREVENTION PLAN. SIGN AND POST A CONSTRUCTION SITE NOTICE.

AT LEAST 2 DAYS BEFORE BEGINNING CONSTRUCTION, PROVIDE A COPY OF THE SITE NOTICE TO THE TO CITY (OPERATOR OF ANY MUNICIPAL SEPARATE STORM WATER SEWER SYSTEM (MS4) INTO WHICH STORM WATER WILL BE DISCHARGED)

THE NOTICE OF INTENT (NOI), NOTICE OF TERMINATION (NOT), OR FEE IS REQUIRED AND TO BE PROVIDED BY THE CONTRACTOR.

DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DONE WITHIN 21 DAYS. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED AFTER CONSTRUCTION IS COMPLETE. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING VEGETATION IN ALL DISTURBED AREAS BY WATER OR OTHER ACCEPTABLE MEANS.

A RAIN GAUGE SHALL BE PROVIDED BY THE CONTRACTOR AND LOCATED AT THE PROJECT SITE. WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE (AS MEASURED BY THE PROJECT SITE GAUGE) THE CONTRACTOR AND INSPECTOR WILL INSPECT THE ENTIRE PROJECT TO DETERMINE THE CONDITION OF THE CONTROL MEASURES. SEDIMENT WILL BE REMOVED AND DEVICES REPAIRED AS SOON AS PRACTICABLE BUT NO LATER THAN 7 DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE BEING CAUSED BY REPAIR OPERATIONS.

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, BODY OF WATER, STREAMBED OR FLOODPLAIN. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.

CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. THE CONTRACTOR SHALL CLEAN PAVED SURFACES (ADJACENT TO THE CONSTRUCTION AREAS) AS NECESSARY TO REMOVE SEDIMENT WHICH HAS ACCUMULATED ON THE ROADWAY DUE TO STORMWATER FLOWS AND VEHICULAR TRAFFIC THROUGH AND ACROSS THE CONSTRUCTION SITE

THE CONTROL MEASURES CONTAINED HEREON ARE GENERAL AND SHALL BE ADJUSTED, INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION CONTRACT TO ASSURE EFFECTIVE AND CONTINUOUS WATER POLLUTION CONTROL DURING CONSTRUCTION AND POST

CONSTRUCTION PERIODS.

UPON COMPLETION OF CONSTRUCTION AND THE INSTALLATION OF PERMANENT EROSION CONTROL METHODS, A FINAL EROSION CONTROL INSPECTION WILL BE PERFORMED AS PART OF ACCEPTANCE OF THE PROJECT BY THE CITY. IN THE EVENT THAT THE PERMANENT EROSION CONTROL IS INADEQUATE DUE TO IMPROPER DESIGN OR INSTALLATION, THE PERMANENT EROSION CONTROL MEASURE MUST BE CORRECTED OR REDESIGNED TO FUNCTION PROPERLY.

WATERING TIMING AND RATES

FOR SOD, WATERING SHOULD BEGIN IMMEDIATELY AFTER PLACEMENT, WITH A RECOMMENDED RATE OF 12,000 GALLONS PER ACRE PER DAY FOR A MINIMUM OF 15 CONSECUTIVE WORKING DAYS DURING THE SUMMER MONTHS (JUNE THROUGH SEPTEMBER) TO ENSURE PROPER ESTABLISHMENT. AFTER THE INITIAL PERIOD, INTERMITTENT WATERING SHOULD CONTINUE AT APPROXIMATELY 1 INCH OF WATER PER WEEK UNTIL THE END OF THE CONTRACT. FOR SEEDED AREAS, WATERING IS USED TO KEEP THE SEED BED MOIST DURING GERMINATION, BUT INITIAL WATERING SHOULD BE POSTPONED UNTIL THE SITE RECEIVES AT LEAST ½ INCH OF NATURAL RAINFALL IN A SINGLE DAY. WATERING SHOULD ALSO BE DELAYED FOR WARM-SEASON GRASSES UNTIL SOIL TEMPERATURES EXCEED 70°F (TEXAS DEPARTMENT OF TRANSPORTATION, 2024)

EQUIPMENT AND DISTRIBUTION

ALL WATER DISTRIBUTION EQUIPMENT MUST PROVIDE UNIFORM AND CONTROLLABLE APPLICATION. A METERING DEVICE IS REQUIRED ON ALL WATERING EQUIPMENT TO MONITOR WATER USAGE. WATER SHOULD BE EVENLY DISTRIBUTED OVER THE ENTIRE AREA USING SPRAY PATTERNS THAT DO NOT DISTURB THE SEED BED OR DISLODGE SEEDS. WATERING SHOULD NOT OCCUR BETWEEN 12:00 P.M. AND 5:00 P.M. WHEN DAYTIME TEMPERATURES EXCEED 95°F TO PREVENT EVAPORATION AND STRESS ON THE VEGETATION

WATER QUALITY AND FERTILIZATION

USE CLEAN WATER FREE OF INDUSTRIAL WASTE OR HARMFUL SUBSTANCES. FERTILIZER SHOULD BE APPLIED EITHER BEFORE SEEDING OR AFTER PLACING SOD, WITH AT LEAST 50% OF THE NITROGEN COMPONENT AS SLOW-RELEASE SULFUR-COATED UREA. DO NOT EXCEED 60 POUNDS OF NITROGEN PER ACRE WITHOUT ENGINEER APPROVAL. FERTILIZER SHOULD BE DELIVERED IN CLEARLY LABELED BAGS OR DOCUMENTED LOADS IF LOOSE MATERIAL IS USED

RAINFALL CONSIDERATIONS

IF ¼ INCH OR MORE OF RAINFALL OCCURS ON A WORKING DAY (EQUIVALENT TO 7,000 GALLONS PER ACRE), VEGETATIVE WATERING IS NOT REQUIRED FOR THAT DAY. THIS ENSURES EFFICIENT WATER USE AND PREVENTS OVERWATERING

COMMON ABBREVIATION LIST

AC	ASBESTOS CONCRETE	LT	LEFT	ROW	RIGHT OF WAY
ASPH	ASPHALT	L	LENGTH	RWALL	RETAINING WALL
BLDG	BUILDING	LP	LIGHT POLE	RWL	RECYCLED WATER LINE
BOC	BACK OF CURB	MBC	MULTI-BOX CULVERT	S	SLOPE
BSL	BUILDING SETBACK LINE	MH	MANHOLE	SF	SILT FENCE
CFN	CHAIN LINK FENCE	MAX	MAXIMUM	SPL	SERVICE POLE
CI	CAST IRON	MFG	MANUFACTURER	SAN SWR	SANITARY SEWER
CL	CENTER LINE	MIN	MINIMUM	STA	STATION
CONC	CONCRETE	N/A	NOT APPLICABLE	STD	STANDARD
COSA	CITY OF SAN ANTONIO	NEW	NEW WORK IN THIS CONTRACT	STL	STEEL
CORP	CORPORATION	NSPI	NO SEPARATE PAY ITEM	STRM	STORM
CMP	CORRUGATED METAL PIPE	N.T.S.	NOT TO SCALE	SW	SIDEWALK
CPED	CABLE PEDESTAL	OC	ON CENTER	T	TANGENT
DEMO	DEMOLISH	OCEW	ON CENTER EACH WAY	T/P	TOP OF PIPE
DI	DUCTILE IRON	OD	OUTSIDE DIAMTER	T/G	TOP OF GROUND
DRWY	DRIVEWAY	OHE	OVERHEAD ELECTRIC	TEL	TELEPHONE
DTL	DETAIL	OHT	OVERHEAD TELEPHONE	TBM	TEMPORARY BENCHMARK
ELEC	ELECTRICAL	PVMT	PAVEMENT	TOC	TOP OF CURB
ELEV/EL	ELEVATION	+/-	PLUS OR MINUS	TPED	TELEPHONE PEDESTAL
EOP	EDGE OF PAVEMENT	PC	POINT OF CURVATURE	TRM	TURF REINFORCEMENT MAT
ESMT	EASEMENT	PE	PLAIN END	TSPL	TRAFFIC SIGNAL POLE
EX/EXIST	EXISTING	PI	POINT OF INTERSECTION	TYP	TYPICAL
FOC	FACE OF CURB	PT	POINT OF TANGENCY	UE	UNDERGROUND ELECTRIC
FH	FIRE HYDRANT	PVC	POLYVINYL CHLORIDE PIPE	UG	UNDERGROUND
FL	FLOW LINE	PSI	POUNDS PER SQUARE INCH	UNK	UNKNOWN
FND	FOUND	PP	POWER POLE	VERT	VERTICAL
GA	GAUGE	PROP	PROPOSED WORK BY OTHERS	VPC	VERTICAL POINT OF CURVATURE
GUY	GUY ANCHOR	PVI	POINT OF VERTICAL INTERSECTION	VPT	VERTICAL POINT OF TANGENCY
HORZ	HORIZONTAL	PCP	PRESSURE PIPE	WCR	WHEEL CHAIR RAMP
HMAC	HOT MIX ASPHALTIC CONCRETE	PL	PROPERTY LINE	WDFN	WOOD FENCE
HRS	HOURS	R	RADIUS	WFN	WIRE FENCE
INV	INVERT	RCB	REINFORCED CONCRETE BOX	WL	WATERLINE
IR	IRON ROD	RCP	REINFORCED CONCRETE PIPE	WM	WATER METER
IRS	SET IRON ROD	REQ'D	REQUIRED	WWF	WELDED WIRE FABRIC
LF	LINEAR FEET	RT	RIGHT		

LEGEND - EXIST FEATURES

	EDGE OF PAVEMENT
	SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	REUSE/RECYLCE WATER LINE
	WATER LINE
	WATER VALVE
	FIREHYDRANT
	WATER METER
	POWER POLE
	POWER POLE W/GUY LINE
	OVERHEAD ELECTRIC LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND TELEPHONE LINE
	TELEPHONE PEDESTAL
	FIBER OPTIC CABLE
	GAS LINE
	GAS VALVE
	MAILBOX
	SIGN
	LIGHT STANDARD
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	WOOD FENCE



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CITY OF SAN ANTONIO CAPITAL DELIVERY DEPARTMENT			
BARBARA DRIVE DRAINAGE PHASE 3 LF			
SUPPLEMENTAL NOTES (2 OF 2) GENERAL			
100 % SUBMITTAL	PROJECT NO.: 23-03927	DATE: 6-12-2026	
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 17 OF 183

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OVERALL TOTAL QUANTITIES			BASE BID	ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY
100.1	MOBILIZATION	LS	1	1
100.2	INSURANCE AND BOND	LS	1	1
101.1	PREPARING RIGHT-OF-WAY	LS	1	1
103.1	REMOVE CONCRETE CURB	LF	4399	472
103.3	REMOVE SIDEWALKS AND DRIVEWAYS	SF	11046	1300
103.4	REMOVE MISCELLANEOUS CONCRETE	SF	1581	
104.1	STREET EXCAVATION	CY	3108	288
106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	23401	6319
107.1	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	53	
108.1	LIME TREATED SUBGRADE (6" COMP DEPTH)	SY	10202	1102
108.2	LIME	TON	138.1	14.9
200.1	FLEXIBLE BASE (6" COMPACTED DEPTH)(TYPE A)(GR1 OR 2)	SY	725	
202.2	PRIME COAT AND BLOTTER	GAL	146	
203.1	TACK COAT	GAL	1821	196
205.2WM	WMAC PAVEMENT TYPE B (2.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	5470	
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	7544	976
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 70-22)	SY	1301	
205.2WM	WMAC PAVEMENT TYPE B (4.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	3281	1102
205.2WM	WMAC PAVEMENT TYPE B (5.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 70-22)	SY	1451	
205.3WM	WMAC PAVEMENT TYPE C (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 70-22)	SY	1379	
205.4WM	WMAC PAVEMENT TYPE D (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 64-22)	SY	7784	976
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVMENT (2" DEPTH)	SY	370	
307.1	CONCRETE STRUCTURE (STORM TRANSITION STRUCTURE)	CY	77	
307.1	CONCRETE STRUCTURE (RETAINING WALLS)	CY	0.5	
307.1	PRECAST HEADWALL (12" RCP)	CY	1	
309.1	PRECAST REINFORCED CONCRETE BOX CULVERTS (3' x 2')	LF	5	
309.1	PRECAST REINFORCED CONCRETE CULVERT (10' X 9')	LF	2299	546
401.1	REINFORCED CONCRETE PIPE (CLASS III)(12" DIA)	LF	8	
401.1	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	78	
401.1	REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	40	36
401.1	REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	LF	12	
401.1	REINFORCED CONCRETE PIPE (CLASS III)(48" DIA)	LF	54	
403.1	JUNCTION BOX (COMPLETE) 4'X4'X4'	EA	2	1
403.2	JUNCTION BOX (COMPLETE) 5'X5'X5'	EA	1	
403.6	SPECIAL JUNCTION BOXES (COMPLETE)	EA	1	
403.7	INLET (COMPLETE)(TYPE I) 10'	EA	10	
403.12	SPECIAL INLET (COMPLETE)(MOD CURB) 10'	EA	4	6
407.4	CONCRETE COLLARS	CY	6.5	0.6
410.2	GRAVEL SUBGRADE FILLER	CY	411	105
413.1	FLOWABLE FILL (LOW STRENGTH)	CY	50	
500.3	CONCRETE CURB	LF	10	
500.4	CONCRETE CURB AND GUTTER	LF	4369.4	412
500.5	MOUNTABLE CONCRETE CURB	LF	118.6	32
502.1	CONCRETE SIDEWALKS	SY	1396	196
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	202	112
503.2	PORTLAND CEMENT CONCRETE DRIVEWAY (COMMERCIAL)	SY	374	

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OVERALL TOTAL QUANTITIES			BASE BID	ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY
505.1	CONCRETE RIPRAP (5" THICK)	SY	61	
506.1	CONCRETE RETAINING WALLS (COMB. TYPE)	CY	10.5	2
515.1	TOPSOIL	CY	230	27
516.1	BERMUDA SODDING	SY	843	129
516.2	ST. AUGUSTINE SODDING	SY	1201	113
520.1	HYDROMULCHING	SY	1765	
522.1	SIDEWALK PIPE RAILING (GALVANIZED)	LF	24	42
524.1	CONCRETE STEPS	CY	3	
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1	
531.3	R1-1 STOP (30")(HIGH INTENSITY)	EA	8	1
531.22	R7-18 NO PARKING THIS SIDE THIS BLOCK (18" X 24")(HIGH INTENSITY)	EA	2	
531.51	W11-2 PEDESTRIAN CROSSING (36" X 36")(DIAMOND GRADE (FLUORESCENT YELLOW GREEN))	EA	4	
531.4	W1-4 REVERSE CURVE (30" X 30")(HIGH INTENSITY)	EA	1	
531.35	W16-7 DIAGONAL ARROW SIGN LEFT (24" X 12")(HIGH INTENSITY)	EA	2	
531.57	D3 9 INCH STREET NAME, BLOCK NUMBER (VARIES X 9")(HIGH INTENSITY)	EA	32	4
531.59	SPECIAL SIGN (R1-5b LEFT) (HIGH INTENSITY)	EA	2	
531.59	SPECIAL SIGN (ALTERNATE RT-3) (HIGH INTENSITY)	EA	1	
531.62	W16-9P AHEAD SIGN (24" X 12")(HIGH INTENSITY)	EA	2	
531.59	SPECIAL SIGN (GOOD NEIGHBOR PROGRAM) (HIGH INTENSITY)	EA	1	
535.1	4 INCH WIDE YELLOW LINE	LF	934	
535.4	8 INCH WIDE WHITE LINE	LF	1120	
535.7	24 INCH WIDE WHITE LINE	LF	377	
535.22	12-INCH WIDE BLACK LINE (CONTRAST)	LF	240	
537.6	TRAFFIC BUTTON (TYPE I-C)	EA	56	
537.8	TRAFFIC BUTTON (TYPE II A-A)	EA	36	
540.1	ROCK FILTER DAMS (INSTALL/REMOVE)(TYPE 3)	CY	51	
540.6	CONSTRUCTION EXITS (INSTALL) (REMOVE)	SY	78	
540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	1967	
540.1	CURB INLET GRAVEL FILTERS	LF	513	40
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	100	
551.1	TEMPORARY SPECIAL SHORING	SF	30086	8,124
552.1	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	600	75
801.1	LEVEL 1 PROTECTIVE FENCING	EA	6	
801.2	LEVEL IIA PROTECTIVE FENCING	EA	12	
801.3	LEVEL IIB PROTECTIVE FENCING	EA	36	
802.1	TREE REMOVAL (8" - 25" DIAMETER)	EA	4	
SUP 13	TREE PROTECTION PLATE	EA	6	
SS 1	DIVERSION AND CARE OF WATER	LS	1	1
TXDOT 432	STONE RIPRAP TYPE F (GROUTED)	SY	39	
TXDOT 503	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	
TXDOT662-70 95	WK ZN PV RMK REMOV (Y)4"(BRK)	LF	1475	
TXDOT 7114-7001	WATER FILLED BARRIER	LF	497	
ALLOWANCE				
1005	CPS ENERGY UTILITY POLE BRACING ALLOWANCE	ALW	1	



NO.	08/19/26	ADDENDUM 2	M.H.
	DATE	DESCRIPTION	APPR. BY
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CITY OF SAN ANTONIO CAPITAL DELIVERY DEPARTMENT			
BARBARA DRIVE DRAINAGE PHASE 3 LF			
QUANTITY SUMMARY (1 OF 3) GENERAL			
100 % SUBMITTAL	PROJECT NO.: 23-03927	DATE: 6-12-2026	
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 18 OF 183

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QUANTITY SUMMARY BY DIVISIONS

	REMOVAL QUANTITES		BASE BID	SHT 64	SHT 65	SHT 66	SHT 67	SHT 65 - ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY	QTY	QTY	QTY	QTY
103.1	REMOVE CONCRETE CURB	LF	4399	762	890	1606	1141	472
103.3	REMOVE SIDEWALKS AND DRIVEWAYS	SF	11046	4554	1599	2342	2551	1300
103.4	REMOVE MISCELLANEOUS CONCRETE	SF	1581	1169		208	204	

ADD ALT QUANTITY NOTE:
QUANTITIES FOR ADD ALT SHOWN ON SHEET 74,75,128 EXCLUDE
QUANTITIES ALREADY ACCOUNTED ON BASE BID ITEMS.

	ROADWAY QUANTITIES		BASE BID	SHT 68	SHT 69	SHT 70	SHT 71	SHT 72	SHT 73	SHT 76	SHT 77	SHT 78	SHT 79	SHT 74 ADD ALT	SHT 75 ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
104.1	STREET EXCAVATION	CY	3108	56	80	190	606	640	115	381	392	512	136	288	
107.1	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	53							25	18	8	2		
108.1	LIME TREATED SUBGRADE (6" COMP DEPTH)	SY	10202			535	1451	2274	472	1684	1613	1610	563	1102	
108.2	LIME	TON	138.1			7.3	19.6	30.7	6.4	22.8	21.8	21.8	7.7	14.9	
200.1	FLEXIBLE BASE (6" COMPACTED DEPTH)(TYPE A)(GR1 OR 2)	SY	725	309	416										
202.2	PRIME COAT AND BLOTTER	GAL	146	62	84										
203.1	TACK COAT	GAL	1821			95	261	403	87	318	280	284	93	196	
205.2WM	WMAC PAVEMENT TYPE B (2.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	5470							1684	1613	1610	563		
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	7544			471		2015	431	1440	1364	1362	461	976	
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 70-22)	SY	1301				1301								
205.2WM	WMAC PAVEMENT TYPE B (4.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	3281			535		2274	472					1102	
205.2WM	WMAC PAVEMENT TYPE B (5.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 70-22)	SY	1451				1451								
205.3WM	WMAC PAVEMENT TYPE C (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 70-22)	SY	1379				1379								
205.4WM	WMAC PAVEMENT TYPE D (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 64-22)	SY	7784			471		2015	431	1590	1397	1419	461	976	
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVMENT (2" DEPTH)	SY	370				78	54	45	102	34	57			
307.1	CONCRETE STRUCTURE (RETAINING WALLS)	CY	0.5								0.5				
500.3	CONCRETE CURB	LF	10					10							
500.4	CONCRETE CURB AND GUTTER	LF	4369.4			209	504	841	131	794	782	785	323.4	412	
500.5	MOUNTABLE CONCRETE CURB	LF	118.6					16		14	35	38	15.6	32	
502.1	CONCRETE SIDEWALKS	SY	1396			70	308	296	66	174	164	248	70	177	19
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	202					56		19	48	58	21	112	
503.2	PORTLAND CEMENT CONCRETE DRIVEWAY (COMMERCIAL)	SY	374			49	65	55		147		58			
505.1	CONCRETE RIPRAP (5" THICK)	SY	39									39			
506.1	CONCRETE RETAINING WALLS (COMB. TYPE)	CY	10.5				1	3			1	3.5	2	1	1
522.1	SIDEWALK PIPE RAILING (GALVANIZED)	LF	24				16					8			42
524.1	CONCRETE STEPS	CY	3				2					1			
552.1	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	600			75	75	75	75	75	75	75	75	75	
SUP 13	TREE PROTECTION PLATE	EA	6								2	1	3		
TXDOT 432	STONE RIPRAP TYPE F (GROUTED)	SY	39									39			
1005	CPS ENERGY UTILITY POLE BRACING ALLOWANCE	ALW	1				1								

	DRAINAGE QUANITIES		BASE BID	SHT 124	SHT 125	SHT 126	SHT 127	SHT 129	SHT 132	SHT 133	SHT 128 ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	23401	3632	6141	12051	1576		1		6319
307.1	CONCRETE STRUCTURE (STORM TRANSITION STRUCTURE)	CY	77				77				
307.1	PRECAST HEADWALL (12" RCP)	CY	1							1	
309.1	PRECAST REINFORCED CONCRETE BOX CULVERTS (3' x 2')	LF	5						5		
309.1	PRECAST REINFORCED CONCRETE CULVERT (10' X 9')	LF	2299	393	586	1200	120				546
401.1	REINFORCED CONCRETE PIPE (CLASS III)(12" DIA)	LF	8							8	
401.1	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	78			44		34			
401.1	REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	40		40						36
401.1	REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	LF	12					12			
401.1	REINFORCED CONCRETE PIPE (CLASS III)(48" DIA)	LF	54					54			
403.1	JUNCTION BOX (COMPLETE) 4'X4'X4'	EA	2			2					1
403.2	JUNCTION BOX (COMPLETE) 5'X5'X5'	EA	1		1						
403.6	SPECIAL JUNCTION BOXES (COMPLETE)	EA	1					1			
403.7	INLET (COMPLETE)(TYPE I) 10'	EA	10		8			2			
403.12	SPECIAL INLET (COMPLETE)(MOD CURB) 10'	EA	4			4					6
407.4	CONCRETE COLLARS	CY	6.5		0.6	0.4		4		0.5	0.6
410.2	GRAVEL SUBGRADE FILLER	CY	411	67	101	208	32		1	2	105
505.1	CONCRETE RIPRAP (5" THICK)	SY	22						10	12	
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	100					100			
551.1	TEMPORARY SPECIAL SHORING	SF	30086	4669	7896	15494	2027				8124
SS 1	DIVERSION AND CARE OF WATER	LS	1	1							1



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100 % SUBMITTAL	PROJECT NO.:	23-03927	DATE: 6-12-2026
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 19 OF 183

v:\23-052-v cosa barbara drive drainage phase 3 in2design phase\1-drawings\23-052-GNRL-QNTY.dwg, QUANTITY SUMMARY (3 OF 3), 8/19/2026 11:48:35 AM, 1:1

SWPPP QUANTITIES			BASE BID	SHT 68	SHT 69	SHT 153	SHT 154	SHT 155	SHT 156	SHT 157	SHT 155 ADD ALT	SHT 75 ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
515.1	TOPSOIL	CY	230			6	9	59	77	79	26	1
516.1	BERMUDA SODDING	SY	843				24	74	382	363	118	11
516.2	ST. AUGUSTINE SODDING	SY	1201			46	57	454	304	340	113	
520.1	HYDROMULCHING	SY	1765	154	205				1029	377		
540.1	ROCK FILTER DAMS (INSTALL/REMOVE)(TYPE 3)	CY	51			51						
540.6	CONSTRUCTION EXITS (INSTALL) (REMOVE)	SY	78			78						
540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	1967	276	375				670	646		
540.1	CURB INLET GRAVEL FILTERS	LF	513			116	36	78	223	60	40	

PAVEMENT MARKING AND SIGNAGE QUANTITIES			BASE BID	SHT 173	SHT 174	SHT 175	SHT 176	SHT 177	SHT 175 ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY	QTY	QTY	QTY	QTY	QTY
531.22	R7-18 NO PARKING THIS SIDE THIS BLOCK (18" X 24")(HIGH INTENSITY)	EA	2		2				
531.3	R1-1 STOP (30")(HIGH INTENSITY)	EA	8	1		3	3	1	1
531.35	W16-7 DIAGONAL ARROW SIGN LEFT (24" X 12")(HIGH INTENSITY)	EA	2		2				
531.4	W1-4 REVERSE CURVE (30" X 30")(HIGH INTENSITY)	EA	1					1	
531.51	W11-2 PEDESTRIAN CROSSING (36" X 36")(DIAMOND GRADE (FLUORESCENT YELLOW GREEN))	EA	4		4				
531.57	D3 9 INCH STREET NAME, BLOCK NUMBER (VARIES X 9")(HIGH INTENSITY)	EA	32	4		12	12	4	4
531.59	SPECIAL SIGN (R1-5b LEFT) (HIGH INTENSITY)	EA	2		2				
531.59	SPECIAL SIGN (ALTERNATE RT-3) (HIGH INTENSITY)	EA	1		1				
531.59	SPECIAL SIGN (GOOD NEIGHBOR PROGRAM) (HIGH INTENSITY)	EA	1			1			
531.62	W16-9P AHEAD SIGN (24" X 12")(HIGH INTENSITY)	EA	2		2				
535.1	4 INCH WIDE YELLOW LINE	LF	934	194	740				
535.4	8 INCH WIDE WHITE LINE	LF	1120	194	926				
535.7	24 INCH WIDE WHITE LINE	LF	377	20	332	25			
535.22	12-INCH WIDE BLACK LINE (CONTRAST)	LF	240		240				
537.6	TRAFFIC BUTTON (TYPE I-C)	EA	56	10	46				
537.8	TRAFFIC BUTTON (TYPE II A-A)	EA	36	8	28				

TREE QUANTITIES			BASE BID	SHT 164
ITEM	DESCRIPTION	UNIT	QTY	QTY
801.1	LEVEL 1 PROTECTIVE FENCING	EA	6	6
801.2	LEVEL IIA PROTECTIVE FENCING	EA	12	12
801.3	LEVEL IIB PROTECTIVE FENCING	EA	36	36
802.1	TREE REMOVAL (8" - 25" DIAMETER)	EA	4	4

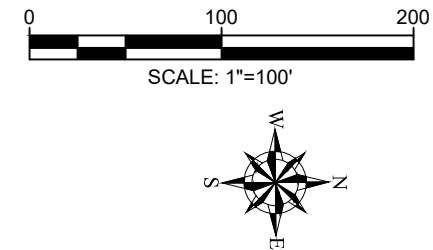
TCP QUANTITIES			BASE BID	SHT 32	SHT 33	SHT 34	SHT 35	ADD ALT
ITEM	DESCRIPTION	UNIT	QTY	QTY	QTY	QTY	QTY	QTY
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1					1
TXDOT 503	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2					
TXDOT662-7095	WK ZN PV RMK REMOV (Y)4"(BRK)	LF	1475	426	515	308	226	
TXDOT 7114-7001	WATER FILLED BARRIER	LF	497	0	0	298	199	



Mark B Hill
08/20/2026

1

NO.	08/19/26	ADDENDUM 2	M.H.
	DATE	DESCRIPTION	APPR. BY
 UNINTECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-6003 www.unintech.com 1BPE Reg. No. F-6489 Fax: (210) 641-8279			
CITY OF SAN ANTONIO CAPITAL DELIVERY DEPARTMENT			
BARBARA DRIVE DRAINAGE PHASE 3 LF QUANTITY SUMMARY (3 OF 3) GENERAL			
100 % SUBMITTAL	PROJECT NO.: 23-03927	DATE: 6-12-2026	
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 20 OF 183

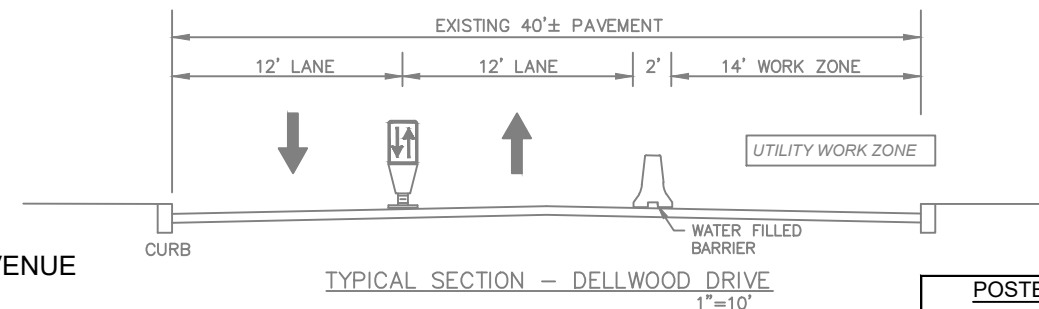


- LEGEND**
- EXISTING R.O.W. / PARCELS
 - EXISTING CURB LINE
 - TEMPORARY SIGN WITH SIGN NUMBER
 - TEMPORARY BARRICADE TYPE III WITH SIGN NUMBER
 - TEMPORARY TRAFFIC CHANNELING DEVICES (DRUMS)
 - TEMPORARY TRAFFIC CHANNELING DEVICES (OTLD)
 - EXISTING TRAFFIC FLOW DIRECTION
 - TEMPORARY TRAFFIC FLOW DIRECTION
 - TRAILER MOUNTED FLASHING ARROWBOARD

- TCP NOTES**
- REFER TO SHEET 21 FOR TRAFFIC CONTROL GENERAL NOTES AND SIGN LEGEND.
 - REFER TO THE COSA & TXDOT TCP STANDARDS INCLUDED IN THE PLAN SET TO ACCOMPLISH THIS WORK OR AS DIRECTED BY COSA / ENGINEER.
 - SIGNS, BARRICADES, AND CHANNELING DEVICES MAY NOT BE SHOWN AT A PRECISE OR MEASURED POSITION. PLACE BARRICADES, DEVICES AND/OR SIGNS IN POSITIONS TO MEET FIELD CONDITIONS.

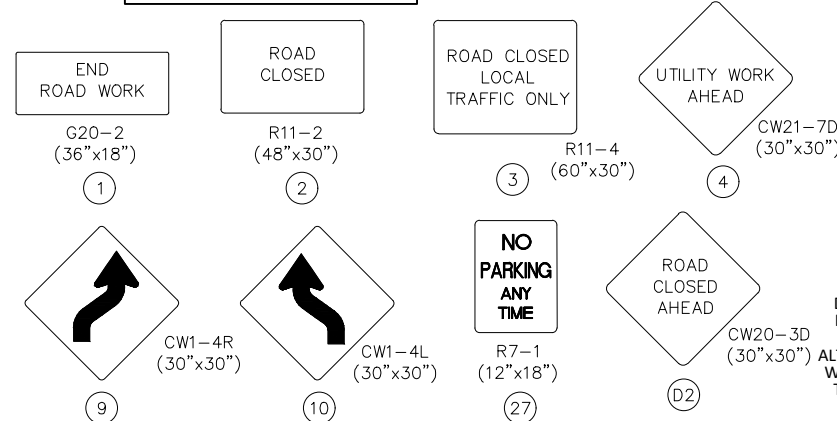
COSA ITEM	DESCRIPTION	UNIT	QTY
662-7095	WK ZEN PAV RMK REMOV (Y)4"(BRK)	LF	308

TXDOT ITEM	DESCRIPTION	UNIT	QTY
7114-7001	WATER FILLED TRAFFIC BARRIER	LF	298



POSTED SPEEDS
OBLATE DRIVE = 35 MPH
ALL OTHER STREETS = 30 MPH

SIGN LEGEND
SIGNS USED ON THIS SHEET

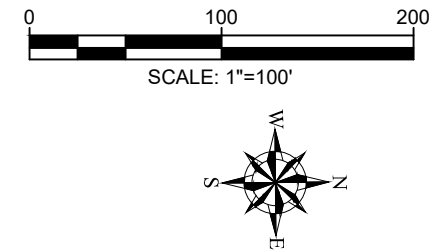


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARCOS MEDINA, P.E. NO. 93830 ON JUNE 15, 2026
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT



PLANNING•ENGINEERING•PROJECT MANAGEMENT
McCardenas Inc.
SAN ANTONIO • EL PASO
TBPE Firm Registration No. F-000554

2	08/17/26	Addendum No. 2	MM
NO	DATE	DESCRIPTION	APPR. BY
UNINTECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-6003 Fax: (210) 641-8279 www.unitech.com TBPE Reg. No. F-6489			
CITY OF SAN ANTONIO CAPITAL DELIVERY DEPARTMENT			
BARBARA DRIVE DRAINAGE PHASE 3 LF			
TRAFFIC CONTROL PHASE 5C			
100%	PROJECT NO.: 23-03927	DATE: 06/15/2026	
DRWN. BY: DA	DSGN. BY: DA	CHKD. BY: MM	SHEET NO: 34 OF 183

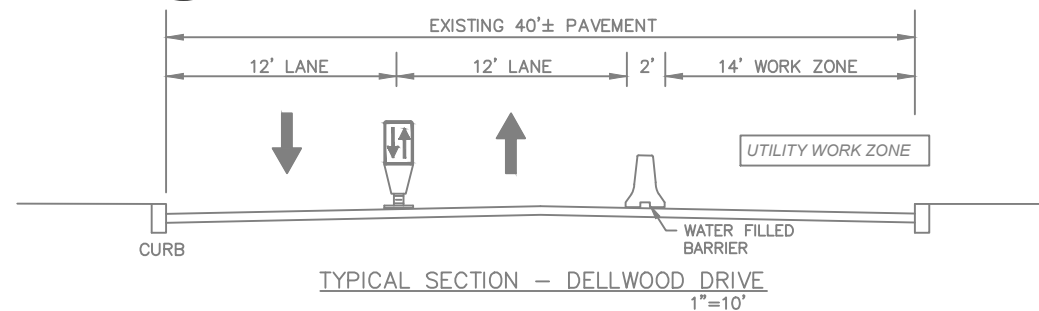


- LEGEND**
- EXISTING R.O.W. / PARCELS
 - EXISTING CURB LINE
 - TEMPORARY SIGN WITH SIGN NUMBER
 - TEMPORARY BARRICADE TYPE III WITH SIGN NUMBER
 - TEMPORARY TRAFFIC CHANNELING DEVICES (DRUMS)
 - TEMPORARY TRAFFIC CHANNELING DEVICES (OTLD)
 - EXISTING TRAFFIC FLOW DIRECTION
 - TEMPORARY TRAFFIC FLOW DIRECTION
 - TRAILER MOUNTED FLASHING ARROWBOARD

- TCP NOTES**
- REFER TO SHEET 21 FOR TRAFFIC CONTROL GENERAL NOTES AND SIGN LEGEND.
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 - SIGNS, BARRICADES, AND CHANNELING DEVICES MAY NOT BE SHOWN AT A PRECISE OR MEASURED POSITION. PLACE BARRICADES, DEVICES AND/OR SIGNS IN POSITIONS TO MEET FIELD CONDITIONS.

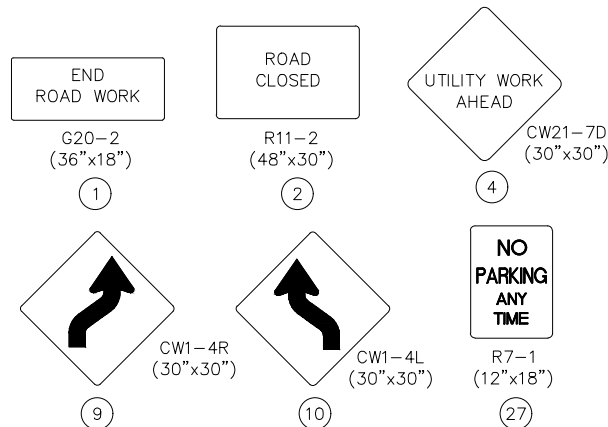
COSA ITEM	DESCRIPTION	UNIT	QTY
662-7095	WK ZEN PAV RMK REMOV (Y)4"(BRK)	LF	226

TXDOT ITEM	DESCRIPTION	UNIT	QTY
7114-7001	WATER FILLED TRAFFIC BARRIER	LF	199



SIGN LEGEND

SIGNS USED ON THIS SHEET

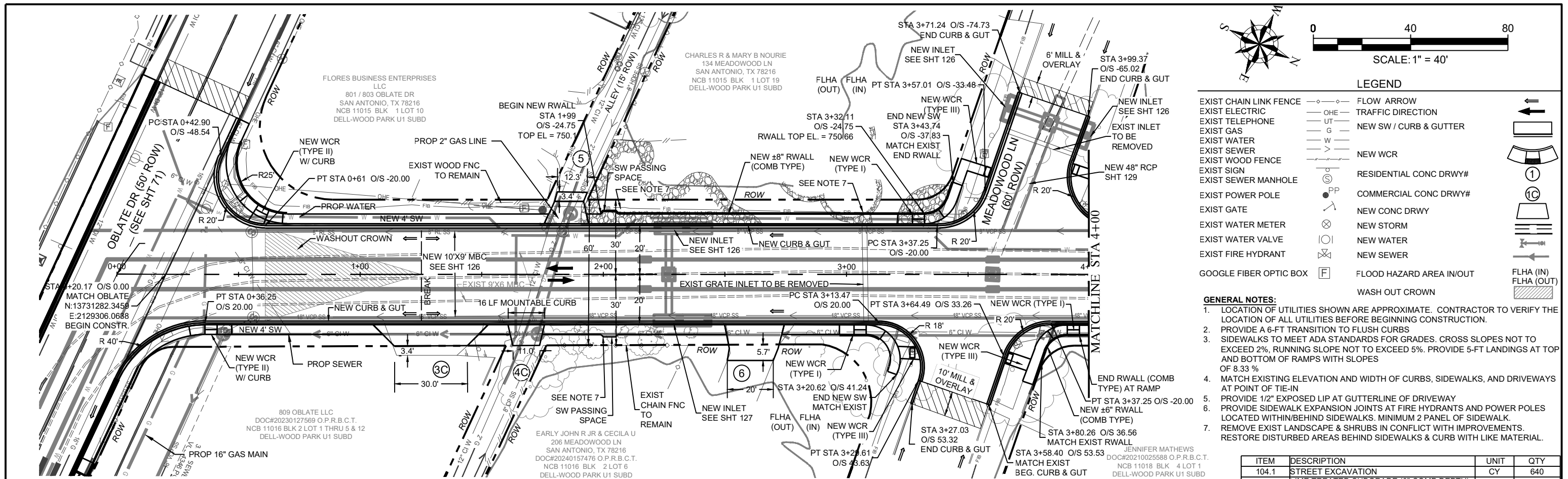


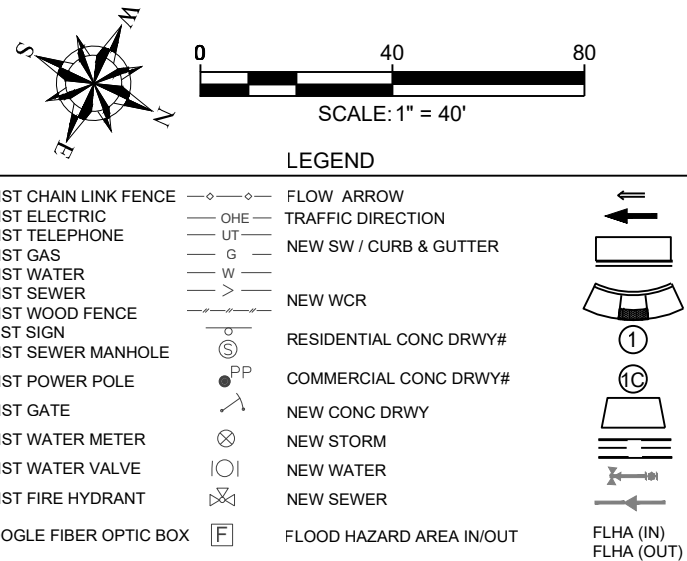
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARCOS MEDINA, P.E. NO. 93830 ON JUNE 15, 2026

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT



2	08/17/26	Addendum No. 2	MM
NO	DATE	DESCRIPTION	APPR. BY
UNITECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-6003 Fax: (210) 641-8279 www.unitech.com			
CITY OF SAN ANTONIO CAPITAL DELIVERY DEPARTMENT			
BARBARA DRIVE DRAINAGE PHASE 3 LF			
TRAFFIC CONTROL PHASE 5D			
100%	PROJECT NO.: 23-03927	DATE: 06/15/2026	
DRWN. BY: DA	DSGN. BY: DA	CHKD. BY: MM	SHEET NO: 35 OF 183





- SPECIAL NOTES:**
1. CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS & ALLEY DURING CONSTRUCTION WHERE NOT AUTHORIZED TO BE CLOSED.
 2. ELEVATED SIDEWALK, PER DETAIL SHT 156, TO BE PAID UNDER ITEM 502. 1 SIDEWALKS.
 3. ADA ACCESS FROM THE HOME AT 202 SHADY WOOD TO BE PROVIDED DURING CONSTRUCTION OF THEIR DRIVEWAY. SEE SHEET 75

- GENERAL NOTES:**
1. LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
 2. PROVIDE A 6-FT TRANSITION TO FLUSH CURBS
 3. SIDEWALKS TO MEET ADA STANDARDS FOR GRADES. CROSS SLOPES NOT TO EXCEED 2%, RUNNING SLOPE NOT TO EXCEED 5%. PROVIDE 5-FT LANDINGS AT TOP AND BOTTOM OF RAMPS WITH SLOPES OF 8.33 %
 4. MATCH EXISTING ELEVATION AND WIDTH OF CURBS, SIDEWALKS, AND DRIVEWAYS AT POINT OF TIE-IN
 5. PROVIDE 1/2" EXPOSED LIP AT GUTTERLINE OF DRIVEWAY
 6. PROVIDE SIDEWALK EXPANSION JOINTS AT FIRE HYDRANTS AND POWER POLES LOCATED WITHIN/BEHIND SIDEWALKS. MINIMUM 2 PANEL OF SIDEWALK.
 7. REMOVE EXIST LANDSCAPE & SHRUBS IN CONFLICT WITH IMPROVEMENTS. RESTORE DISTURBED AREAS BEHIND SIDEWALKS & CURB WITH LIKE MATERIAL.

ADD ALT QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
104.1	STREET EXCAVATION	CY	288
108.1	LIME TREATED SUBGRADE (6" COMP DEPTH)	SY	1102
108.2	LIME	TON	14.9
203.1	TACK COAT	GAL	196
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	976
205.2WM	WMAC PAVEMENT TYPE B (4.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	1102
205.4WM	WMAC PAVEMENT TYPE D (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 64-22)	SY	976
500.4	CONCRETE CURB AND GUTTER	LF	412
500.5	MOUNTABLE CONCRETE CURB	LF	32
502.1	CONCRETE SIDEWALKS	LF	177
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	112
506.1	CONCRETE RETAINING WALLS (COMB. TYPE)	CY	1
552.1	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	75



4	08/19/26	ADDENDUM 2	M.H.
NO.	DATE	DESCRIPTION	APPR. BY


UNITECH CONSULTING ENGINEERS, INC.
 2431 E. Evans Road
 San Antonio, Texas 78259
 Phone: (210) 641-6003

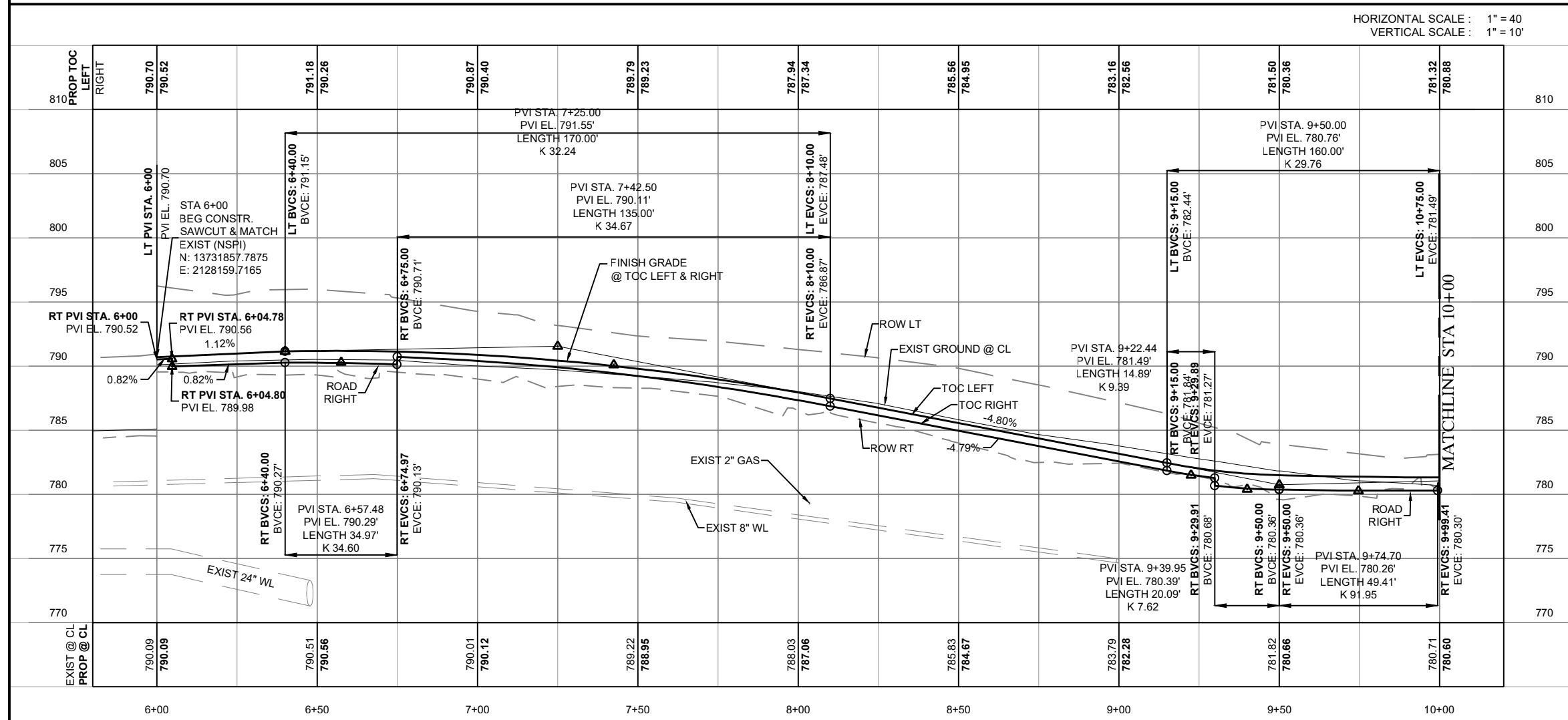
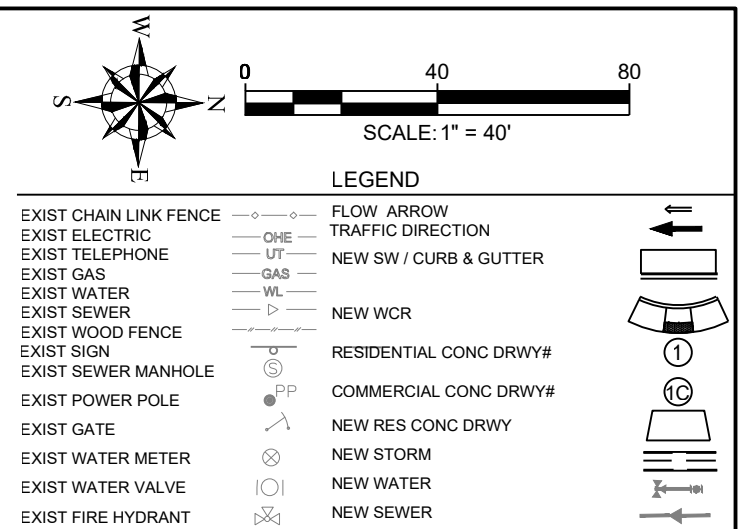
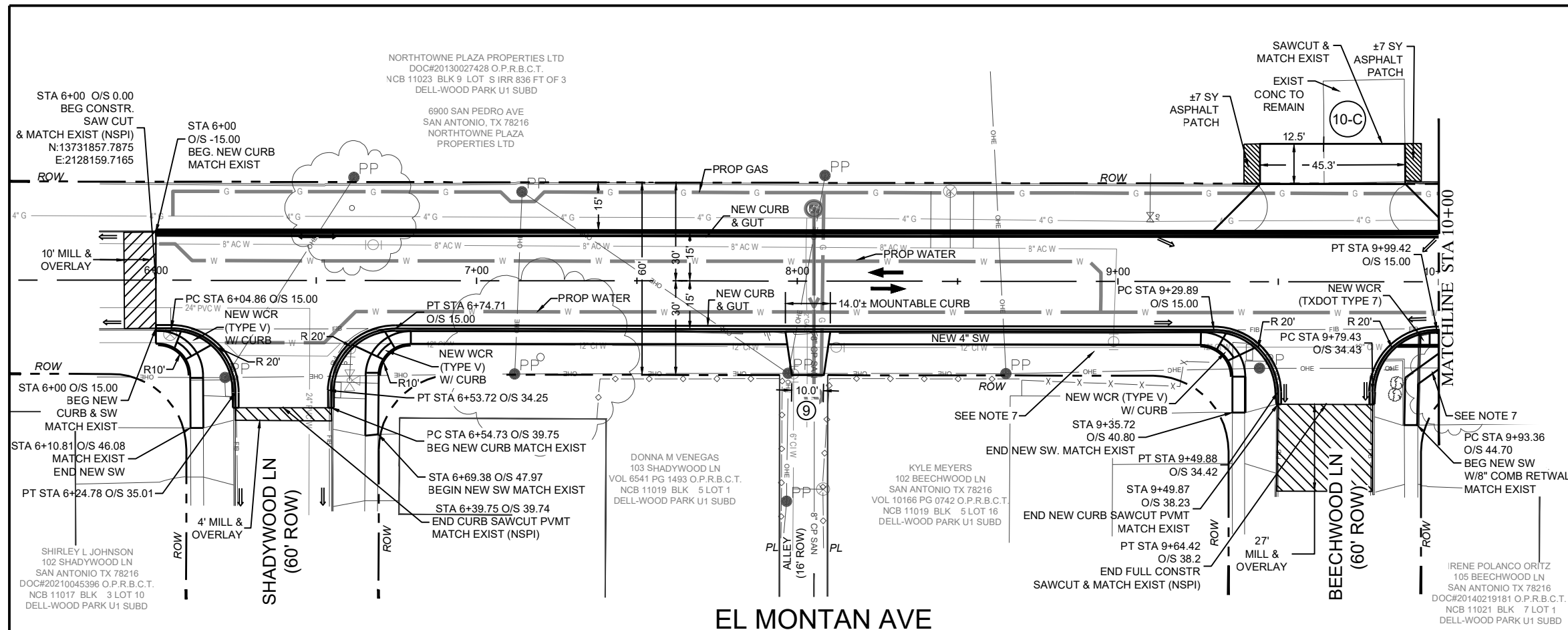
CITY OF SAN ANTONIO
CAPITAL DELIVERY DEPARTMENT

BARBARA DRIVE DRAINAGE PHASE 3 LF

ADD ALT DELLWOOD STA 4+00 - 8+00

STREET PLAN & PROFILE

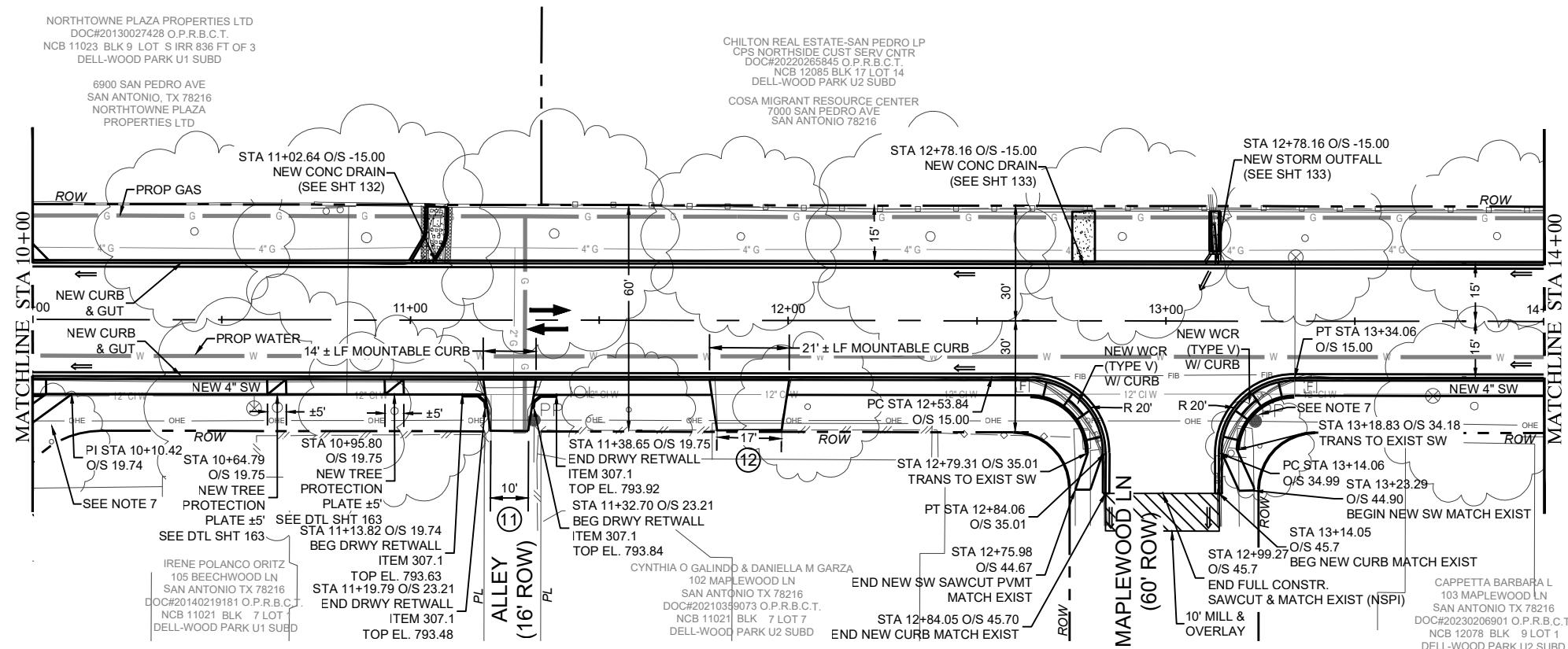
100% SUBMITTAL	PROJECT NO.: 23-03927		DATE: 6-12-2026
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 74 OF 183



ITEM	DESCRIPTION	UNIT	QTY
104.1	STREET EXCAVATION	CY	381
107.1	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	25
108.1	LIME TREATED SUBGRADE (6" COMP DEPTH)	SY	1684
108.2	LIME	TON	22.8
203.1	TACK COAT	GAL	318
205.2WM	WMAC PAVEMENT TYPE B (2.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	1684
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	1440
205.4WM	WMAC PAVEMENT TYPE D (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 64-22)	SY	1590
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVMENT (2" DEPTH)	SY	102
500.4	CONCRETE CURB AND GUTTER	LF	794
500.5	MOUNTABLE CONCRETE CURB	LF	14
502.1	CONCRETE SIDEWALKS	SY	174
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	19
503.2	PORTLAND CEMENT CONCRETE DRIVEWAY (COMMERCIAL)	SY	147
552.1	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	75



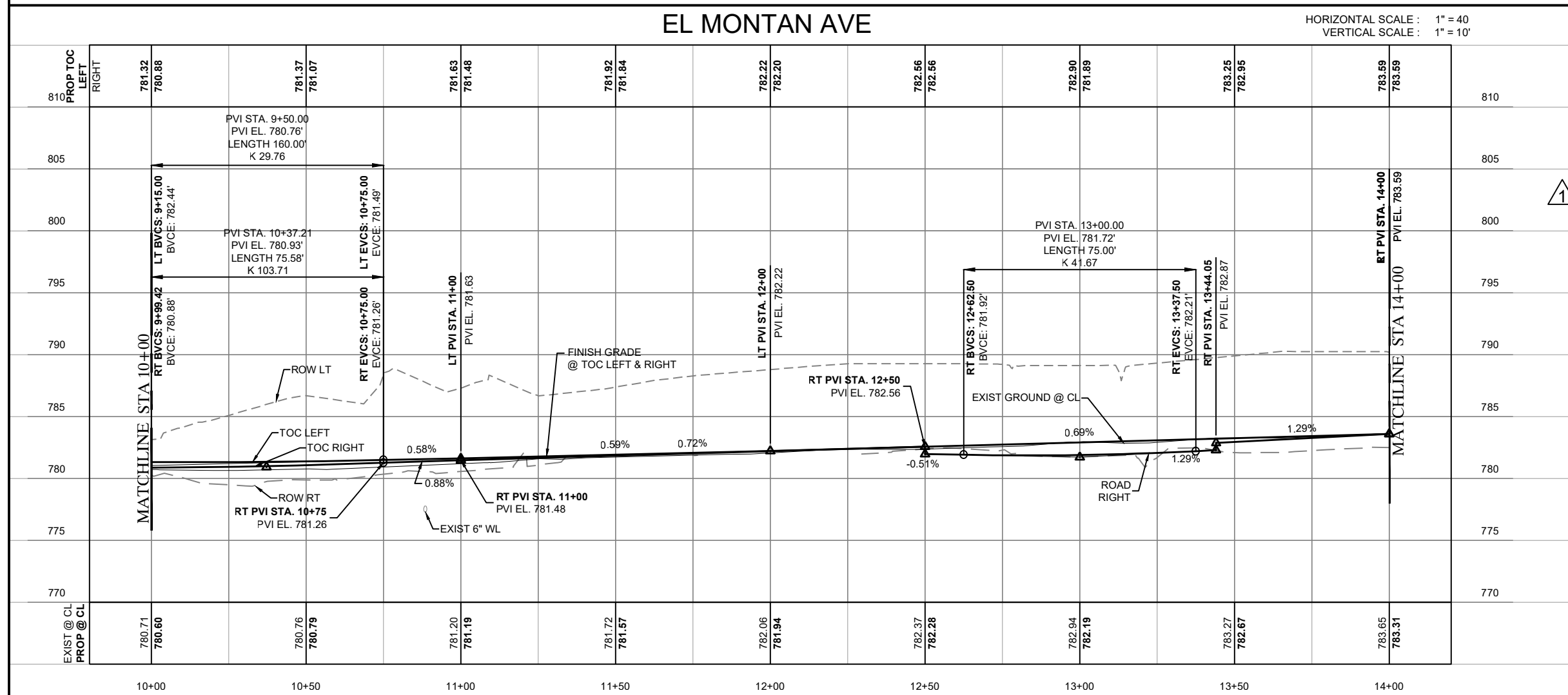
	08/19/26	APPENDIX 2	M.H.
	DATE	DESCRIPTION	APPR. BY
 UNITECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-6003 TBPE Reg. No. F-5499 Fax: (210) 641-8279 www.unitech.com			
CITY OF SAN ANTONIO CAPITAL DELIVERY DEPARTMENT			
BARBARA DRIVE DRAINAGE PHASE 3 LF EL MONTAN AVE STA 6+00 - 10+00 STREET PLAN & PROFILE			
100% SUBMITTAL	PROJECT NO.: 23-03927		DATE: 6-12-2026
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 76 OF 183



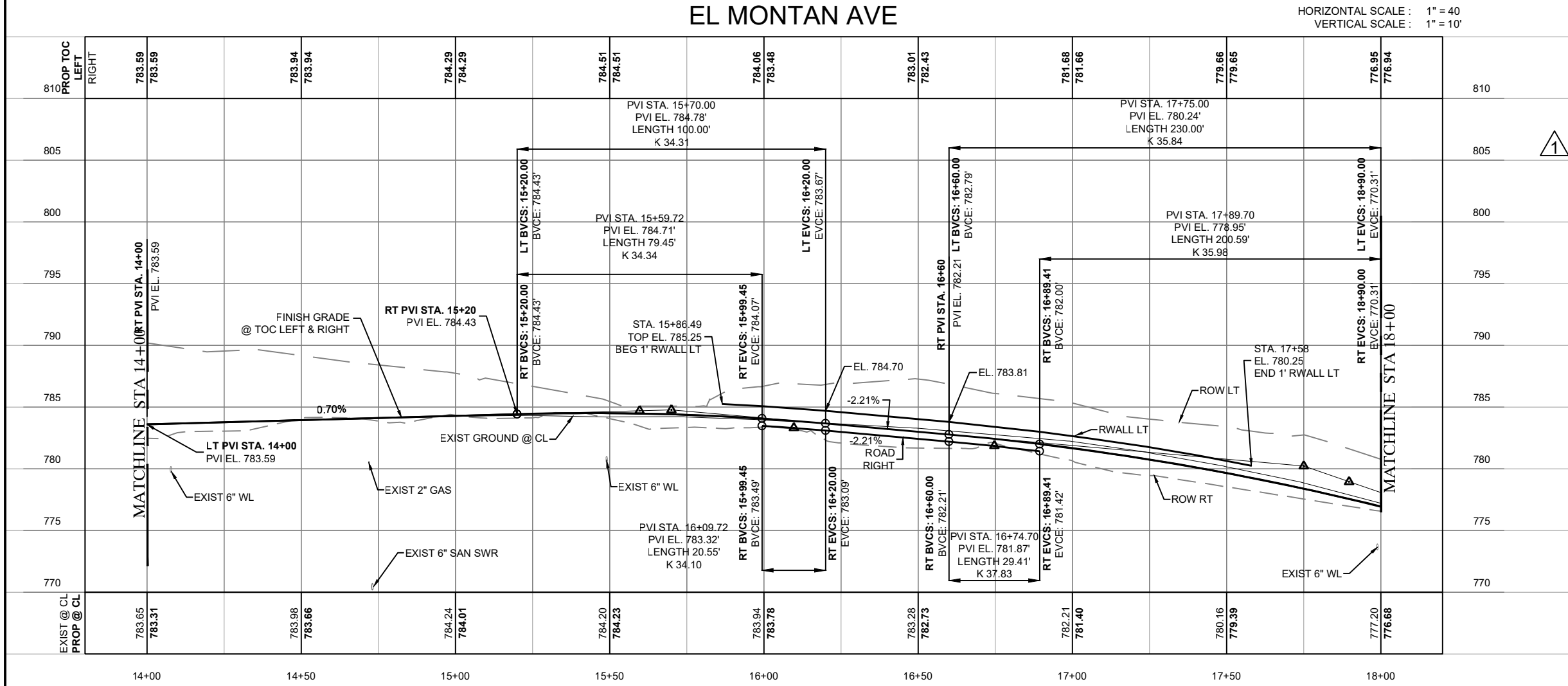
GENERAL NOTES:

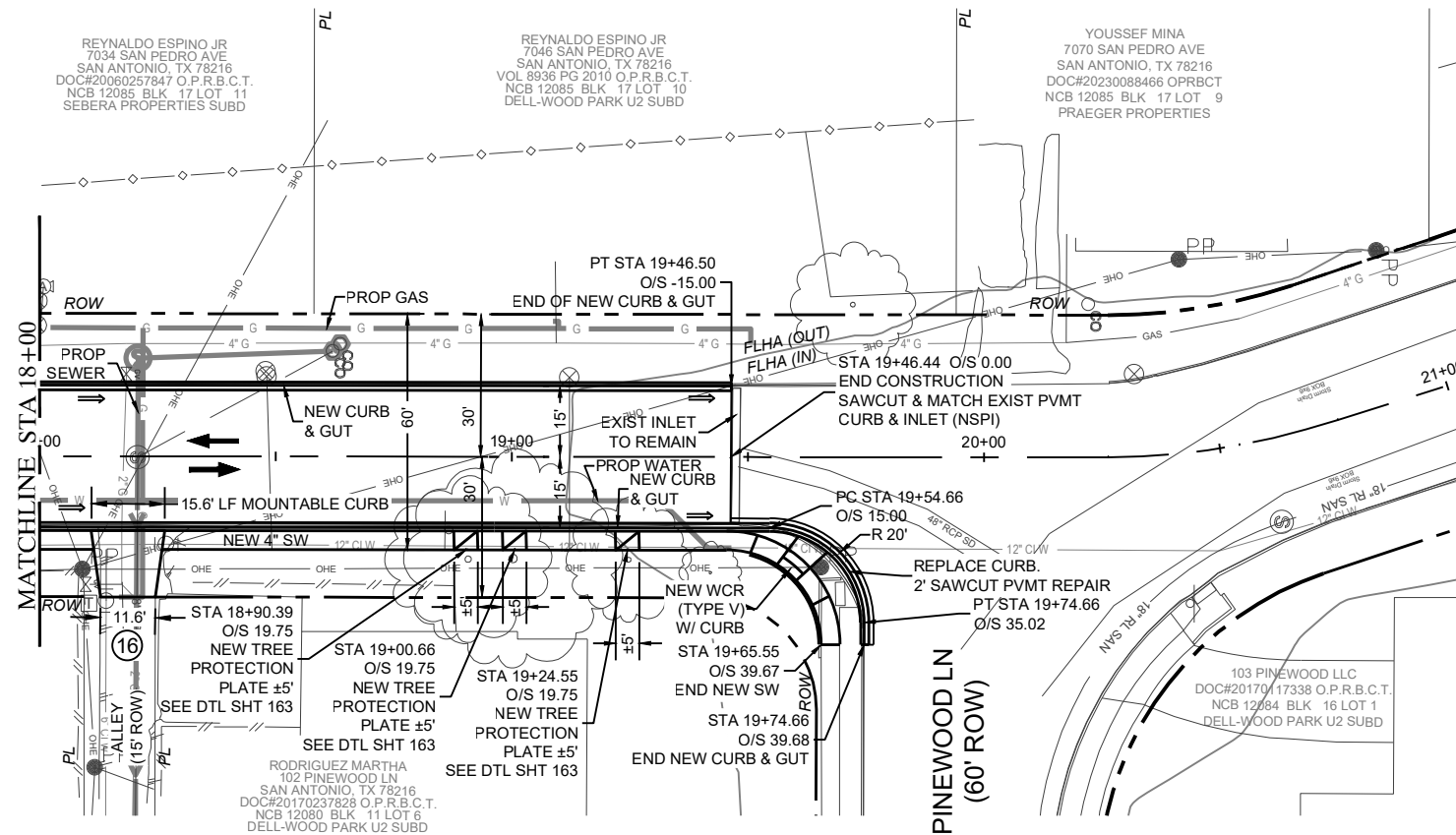
1. LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
2. PROVIDE A 6-FT TRANSITION TO FLUSH CURBS
3. SIDEWALKS TO MEET ADA STANDARDS FOR GRADES. CROSS SLOPES NOT TO EXCEED 2%, RUNNING SLOPE NOT TO EXCEED 5%. PROVIDE 5-FT LANDINGS AT TOP AND BOTTOM OF RAMPS WITH SLOPES OF 8.33 %
4. MATCH EXISTING ELEVATION AND WIDTH OF CURBS, SIDEWALKS, AND DRIVEWAYS AT POINT OF TIE-IN
5. PROVIDE 1/2" EXPOSED LIP AT GUTTERLINE OF DRIVEWAY
6. PROVIDE SIDEWALK EXPANSION JOINTS AT FIRE HYDRANTS AND POWER POLES LOCATED WITHIN/BEHIND SIDEWALKS. MINIMUM 2 PANEL OF SIDEWALK.
7. REMOVE EXIST LANDSCAPE & SHRUBS IN CONFLICT WITH IMPROVEMENTS - RESTORE DISTURBED AREAS BEHIND SIDEWALKS & CURBS WITH LIKE MATERIALS

ITEM	DESCRIPTION	UNIT	QTY
104.1	STREET EXCAVATION	CY	392
107.1	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	18
108.1	LIME TREATED SUBGRADE (6" COMP DEPTH)	SY	1613
108.2	LIME	TON	21.8
203.1	TACK COAT	GAL	280
205.2WM	WMAC PAVEMENT TYPE B (2.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	1613
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	1364
205.4WM	WMAC PAVEMENT TYPE D (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 64-22)	SY	1397
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVMENT (2" DEPTH)	SY	34
307.1	CONCRETE STRUCTURE (RETAINING WALLS)	CY	0.5
500.4	CONCRETE CURB AND GUTTER	LF	782
500.5	MOUNTABLE CONCRETE CURB	LF	35
502.1	CONCRETE SIDEWALKS	SY	164
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	48
506.1	CONCRETE RETAINING WALLS (COMB. TYPE)	CY	1
552.1	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	75
SUP 13	TREE PROTECTION PLATE	EA	2



															
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	08/19/26	ADDENDUM 2	M.H.												
NO.	DATE	DESCRIPTION	APPR. BY												
 UNITECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-6003 TBPE Reg. No. F-5499 Fax: (210) 641-8279 www.unitech.com															
CITY OF SAN ANTONIO CAPITAL DELIVERY DEPARTMENT															
BARBARA DRIVE DRAINAGE PHASE 3 LF															
EL MONTAN AVE STA 10+00 - 14+00 STREET PLAN & PROFILE															
100% SUBMITTAL	PROJECT NO.: 23-03927		DATE: 6-12-2026												
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 77 OF 183												





EXIST CHAIN LINK FENCE		FLOW ARROW	
EXIST ELECTRIC		TRAFFIC DIRECTION	
EXIST TELEPHONE			
EXIST GAS		NEW SW / CURB & GUTTER	
EXIST WATER			
EXIST SEWER		NEW WCR	
EXIST WOOD FENCE			
EXIST SIGN		RESIDENTIAL CONC DRWY#	
EXIST SEWER MANHOLE		COMMERCIAL CONC DRWY#	
EXIST POWER POLE			
EXIST GATE		NEW RES CONC DRWY	
EXIST WATER METER			
EXIST WATER VALVE		NEW WATER	
EXIST FIRE HYDRANT		NEW SEWER	

- GENERAL NOTES:**
1. LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
 2. PROVIDE A 6-FT TRANSITION TO FLUSH CURBS
 3. SIDEWALKS TO MEET ADA STANDARDS FOR GRADES. CROSS SLOPES NOT TO EXCEED 2%, RUNNING SLOPE NOT TO EXCEED 5%. PROVIDE 5-FT LANDINGS AT TOP AND BOTTOM OF RAMPS WITH SLOPES OF 8.33 %
 4. MATCH EXISTING ELEVATION AND WIDTH OF CURBS, SIDEWALKS, AND DRIVEWAYS AT POINT OF TIE-IN
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 6. PROVIDE SIDEWALK EXPANSION JOINTS AT FIRE HYDRANTS AND POWER POLES LOCATED WITHIN/BEHIND SIDEWALKS. MINIMUM 2 PANEL OF SIDEWALK.
 7. REMOVE EXIST LANDSCAPE & SHRUBS IN CONFLICT WITH IMPROVEMENTS - RESTORE DISTURBED AREAS BEHIND SIDEWALKS & CURBS WITH LIKE MATERIALS
 8. ELEVATED WALKWAY, PER DETAIL SHT 156, TO BE PAID UNDER ITEM 502. 1 SIDEWALKS

ITEM	DESCRIPTION	UNIT	QTY
104.1	STREET EXCAVATION	CY	136
107.1	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	2
108.1	LIME TREATED SUBGRADE (6" COMP DEPTH)	SY	563
108.2	LIME	TON	7.7
203.1	TACK COAT	GAL	93
205.2WM	WMAC PAVEMENT TYPE B (2.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	563
205.2WM	WMAC PAVEMENT TYPE B (3.5" COMP DEPTH)(20% MAX RAP)(NO RAS)(PG 64-22)	SY	461
205.4WM	WMAC PAVEMENT TYPE D (2" COMP DEPTH)(NO RAP)(NO RAS)(PG 64-22)	SY	461
500.4	CONCRETE CURB AND GUTTER	LF	323.4
500.5	MOUNTABLE CONCRETE CURB	LF	15.6
502.1	CONCRETE SIDEWALKS	SY	70
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	21
506.1	CONCRETE RETAINING WALLS (COMB. TYPE)	CY	2
552.1	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	75
SUP 13	TREE PROTECTION PLATE	EA	3



1	08/19/26	ADDENDUM 2	M.H.
NO.	DATE	DESCRIPTION	APPR. BY



**UNITECH CONSULTING
ENGINEERS, INC.**

2431 E. Evans Road
San Antonio, Texas 78259
Phone: (210) 641-6003

TBPE Reg. No. F-5499
Fax: (210) 641-8279
WWW.unitech.com

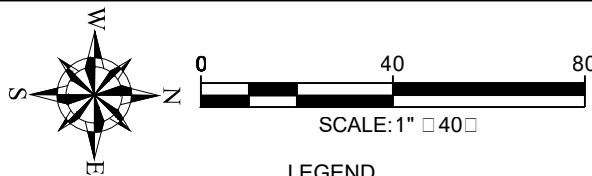
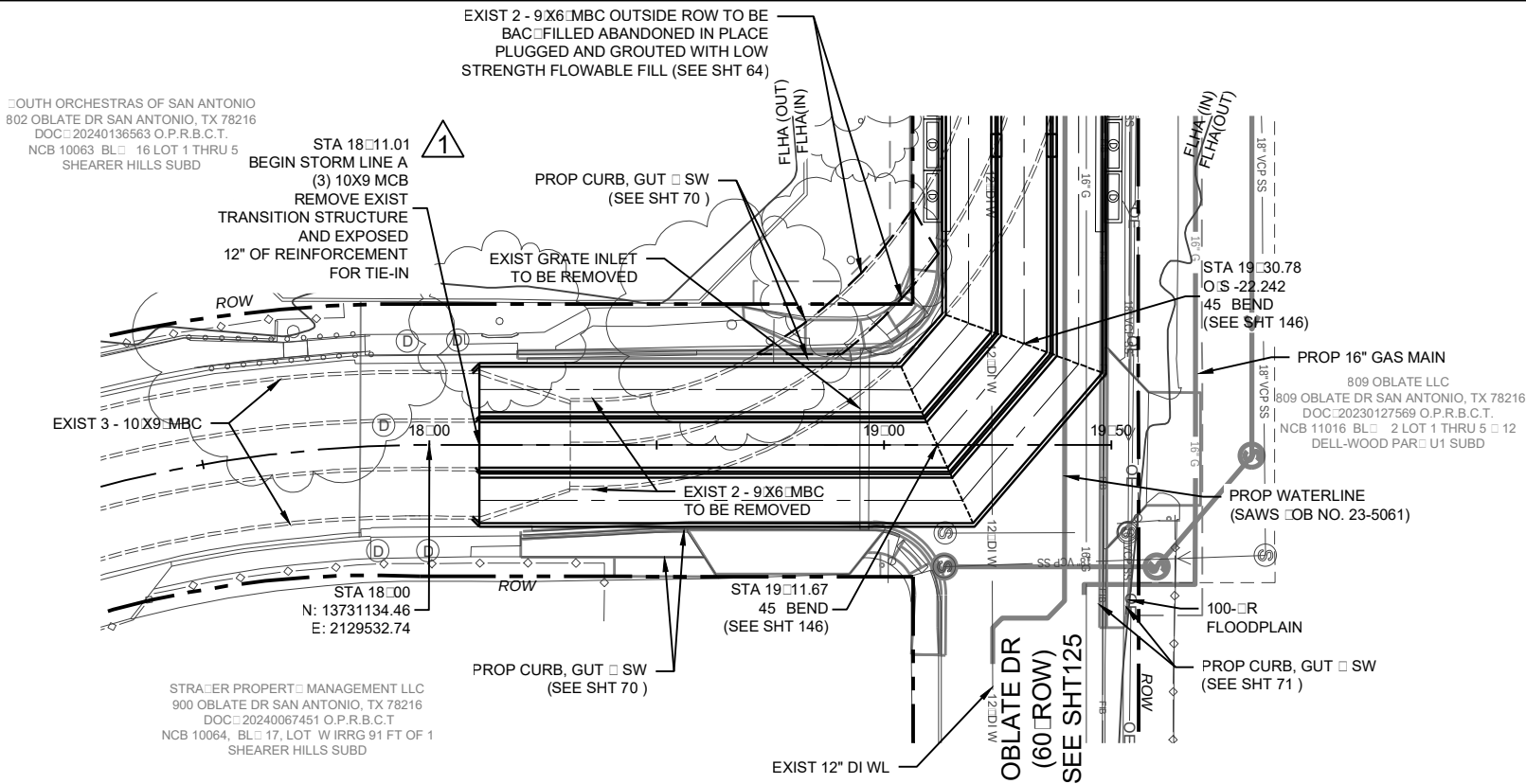
CITY OF SAN ANTONIO
CAPITAL DELIVERY DEPARTMENT

BARBARA DRIVE DRAINAGE PHASE 3 LF

EL MONTAN AVE STA 18+00 - 21+00

STREET PLAN & PROFILE

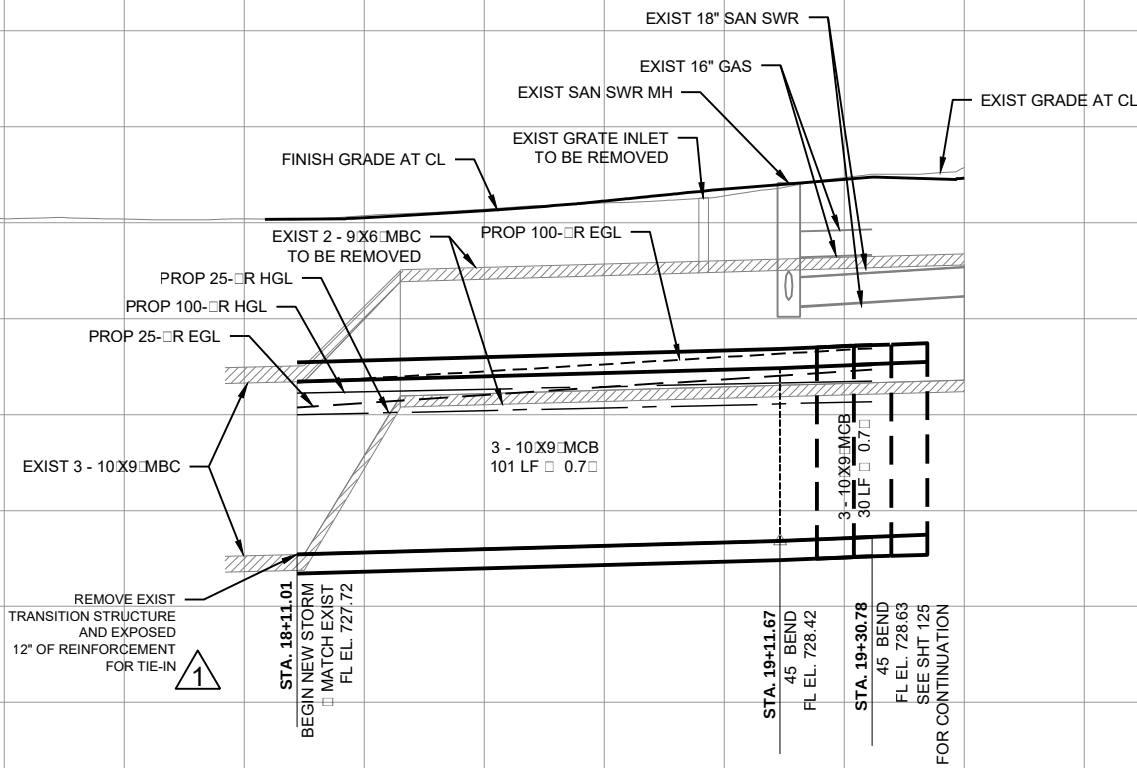
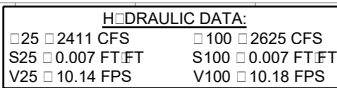
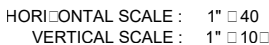
100% SUBMITTAL	PROJECT NO.: 23-03927		DATE: 6-12-2026
DRWN. BY: MC	DSGN. BY: MH	CHKD. BY: KW	SHEET NO: 79 OF 183



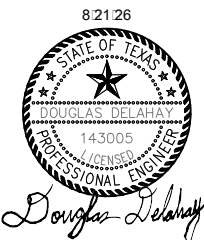
LEGEND	
EXIST CHAIN LINK FENCE	FLOW ARROW
EXIST ELECTRIC	PROP STORM FUNCTION BOX
EXIST TELEPHONE	PROP TPO C1 INLET
EXIST GAS	PROP INLET EXTENSION
EXIST WATER	PROP STORM PIPE
EXIST SEWER	PROP WATER
EXIST WOOD FENCE	PROP SEWER
EXIST SIGN	
EXIST SEWER MANHOLE	
EXIST POWER POLE	
EXIST GATE	
EXIST WATER METER	
EXIST WATER VALVE	
EXIST FIRE HOSE DRANT	

GENERAL NOTES:

1. CONCRETE COLLAR TO BE CONSTRUCTED AT ALL PIPE CONNECTIONS WITH INLETS, JUNCTION BOXES, AND BOX CULVERTS. SEE DETAIL SHT 147
2. JUNCTION BOXES CANNOT BE PLACED AT JOINTS ALONG THE 10'X9' BOX CULVERT
3. CONTRACTOR TO PROVIDE A CONCRETE MUDSLAB BENEATH TWO OR MORE ADJACENT FULL SIZE INLETS.
4. CONTRACTOR WILL CONSTRUCT 5'X5' EQUALIZING PORTS BETWEEN 2 OR MORE ADJACENT FULL SIZE INLETS.
5. CONNECTION OF MH RISER AND TB TO BOX CULVERT PER MANUFACTURER SPECIFICATIONS.
6. SEE INLET SECTIONS SHT 130 & 131 FOR MORE INFORMATION.
7. CONTRACTOR IS RESPONSIBLE FOR DEWATER AND DIVERSION OF SURFACE AND STORM DRAIN DRAINAGE DURING CONSTRUCTION TO MAINTAIN ACCESSIBLE TRENCH ZONE, ITEM SS 1.
8. CONTRACTOR TO TAKE EVERY PRECAUTION NEEDED TO PROTECT THE PROPOSED SANITARY SEWER AND ASSOCIATED TRENCH FROM DAMAGE



ITEM	DESCRIPTION	UNIT	QTY
106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	3632
309.1	PRECAST REINFORCED CONCRETE CULVERT (10' X 9')	LF	393
410.2	GRAVEL SUBGRADE FILLER	CY	67
551.1	TEMPORARY SPECIAL SHORING	SF	4669
SS 1	DIVERSION AND CARE OF WATER	LS	1



1	08.21.26	ADDENDUM 2	D.D.
NO.	DATE	DESCRIPTION	APPR. B



**UNINTECH CONSULTING
ENGINEERS, INC.**

2431 E. Evans Road
San Antonio, Texas 78259
Phone: (210) 641-8003

TBPE Reg. No. F-5499
Fax: (210) 641-8279
www.unintech.com

CITY OF SAN ANTONIO
CAPITAL DELIVERY DEPARTMENT

BARBARA DRIVE DRAINAGE PHASE 3 LF

BARBARA DR
STORM LINE A PLAN ☐ PROFILE

100 SUBMITTAL	PROJECT NO.: 23-03927		DATE: 6-12-2026
DRWN. BY: DD	DSGN. BY: DD	CHD. BY: W	SHEET NO: 124 OF 183

BGE INC. G:\TXC\Projects\SAWS\CoSA 2022-2027 Bond Program - Barbara Drive Phase 3\03_CADD\01_Sheets\05_BARBARA WATER PLAN 3_EL MONTAN.dwg Aug 20, 2026-6:21pm jtdndre

NORTH TOWNE PLAZA STRIP MALL

PARCEL: 471615
NCB 11023 BLK 9 LOT
S IRR 836 FT OF 3
6900 SAN PEDRO AVE
SAN ANTONIO, TX 78216
OWNER: NORTH TOWNE
PLAZA PROPERTIES LTD

STA 6+52.54, OS 19.45' RT, EL MONTAN AVE
1 - 12" X 1/8 BEND, MJ (ROLLED)(RL = 16')
(SEE SAWS STD DD-839-08)
±14 LF OF 12" PVC DR-18 (C-900)
STA 6+36.16, OS 19.45' RT, EL MONTAN AVE
1 - 12" GATE VALVE (RL = 77')
1 - 6" VALVE BOX COMPLETE
±19 LF OF 12" PVC DR-18 (C-900)
1 - 12" X 1/8 BEND VERT, MJ (RL = 11')
1 - 12" X 1/8 BEND VERT, MJ (RL = 67')

2" TEMPORARY BLOWOFF
12" X 2" ECCENTRICALLY TAPPED CAP, MJ (TEMP)
(SAWS STD DD-844-01, SEE SHEET 2 OF 4)

WATER SHUT OFF
VALVES (TIED)
(PZ 930)
APPROX 170 LF
WV #1165544
APPROX 194 LF
WV #275108
APPROX 517 LF
WV #275074
APPROX 625 LF
WV #275317
APPROX 640 LF
WV #275318

STA 6+04.70, OS 16.79' RT, EL MONTAN AVE
EXIST 2" ARV #112410 VAULT
ADJUST EXIST VALVE AND VALVE BOX
TO PROP FINAL GRADE
EXIST ELEV = ±790.24
PROP ELEV = ±790.26

STA 6+21.54 OS 19.46' RT, EL MONTAN AVE
AFTER RELEASE FOR SERVICE
TIE PROP 12" PVC DR-18 (C-900) TO EXIST 12" CI MAIN (PZ 930)
1 - 12" CAST COUPLING, PVC TO CI
±12 LF OF 12" PVC DR-18 (C-900)
REMOVE AND DISPOSE ±4 LF OF 12" PVC/CI MAIN (NSPI)

MACHINE CHLORINATION
2 - 1" CORP STOP, CC X IP
2 - 1 1/4" SOLID CAPS, THR
2 - 1" COPPER TUBING, CUT AS REQUIRED
2 - 1" COMP X 1 1/4" COUPLING, CURB STOP
(SAWS STD DD-844-01)

CAP EXISTING 12" PVC/CI WATERLINE
AFTER TESTING APPROVAL FROM SAWS
INSPECTOR AND ENGINEER (NSPI)

PARCEL: 471523
NCB 11017 BLK 3
LOT 10
102 SHADYWOOD LN
SAN ANTONIO, TX
78216
OWNER: JOHNSON
SHIRLEY L

STA 6+33.16 OS 19.45' RT, EL MONTAN AVE
1 - 12" X 8" TEE, MJ (RL = 77')
1 - 8" GATE VALVE, MJ (RL = 77')
1 - 6" VALVE BOX COMPLETE

EXIST ±36 LF OF
ABANDONED 12" CI W
TO BE REMOVED AND
DISPOSED (NSPI) PRIOR
TO INSTALLATION OF
12" PVC W

PROPOSED
8" PVC
WATER MAIN
(EL MONTAN AVE
LINE B)
REFER TO
SHEET 17

ABANDON EXIST 12" CI WATER MAIN IN PLACE (NSPI)
SAWS SHALL MACHINE CHLORINATE NEW 12" PVC MAIN

STA 6+62.28, OS 9.70' RT, EL MONTAN AVE
1 - 12" X 1/8 BEND, MJ (ROLLED)(RL = 45')
(SEE SAWS STD DD-839-08)
±19 LF OF 12" PVC DR-18 (C-900)

STA 7+93.97 OS 9.66' RT, EL MONTAN AVE
1 - 12" X 8" TEE, MJ (RL = 77')
±4 LF OF 8" PVC DR-18 (C-900)

STA 6+80.86, OS 9.69' RT, EL MONTAN AVE
1 - 12" X 6" ANCHOR TEE, MJ (RL = 1')
1 - 6" GATE VALVE, MJ
1 - 6" VALVE BOX, COMP
6" DI PIPE (CUT AS REQUIRED)
1 - STD FIRE HYDRANT
(SAWS STD DD-834-01)

1 - 12" X 1/8 BEND
VERT, MJ (RL = 67')
1 - 12" X 1/8 BEND
VERT, MJ (RL = 11')
±16 LF OF 12"
PVC DR-18 (C-900)

±97 LF OF
12" PVC DR-18 (C-900)

BEGIN STA 7+96.27, OS 9.65' RT, EL MONTAN AVE
±3 CY CONCRETE ENCASEMENT
END STA 8+14.27, OS 9.63 RT, EL MONTAN AVE

STA 8+94.62 OS 9.62' RT, EL MONTAN AVE
1 - 12" X 8" TEE, MJ (RL = 77')
(EL MONTAN AVE LINE B, REFER TO SHEET 17)

STA 8+91.62, OS 9.62' RT, EL MONTAN AVE
1 - 12" GATE VALVE, MJ (RL = 109')
1 - 6" VALVE BOX COMPLETE

1 - 12" X 1/8 BEND
VERT, MJ (RL = 67')

1 - 12" X
1/8 BEND
VERT, MJ
(RL = 11')

112502 (1")
COMMERCIAL
TURNED OFF
283862 (2")
COMMERCIAL
112508 (1 1/2")
COMMERCIAL
3RD TURNED OFF

PROP CURB
(BY
COSA)

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COMMERCIAL
TURNED OFF
283862 (2")
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112508 (1 1/2")
COMMERCIAL
3RD TURNED OFF

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TURNED OFF
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COMMERCIAL
112508 (1 1/2")
COMMERCIAL
3RD TURNED OFF

STA 6+33.16, OS 23.50' RT, EL MONTAN AVE
EXIST 12" PVC W CROSSING
TOP OF 12" PVC W = ±785.00
PROP SURFACE ELEVATION = ±790.04
DEPTH TO TOP OF 12" PVC W = ±5.04
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 12" PVC W)
SEE DETAIL "C" ON SHEET 18

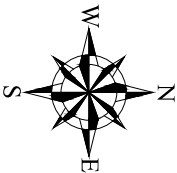
STA 8+05.27, OS 9.65' RT, EL MONTAN AVE
PROP 8" PVC SAN SEWER CROSSING
(REFER TO SAN SEWER PLANS)
TOP OF 8" PVC SAN SEWER = ±779.59
PROP SURFACE ELEVATION = ±786.62
DEPTH TO TOP OF 8" PVC SAN SEWER = ±7.03
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER ABOVE 8" PVC SAN SEWER)
SEE DETAIL "B" ON SHEET 18

STA 8+98.89, OS 9.62' RT, EL MONTAN AVE
EXIST 8" AC W CROSSING
TOP OF 8" AC W = ±779.21
PROP SURFACE ELEVATION = ±782.14
DEPTH TO TOP OF 8" AC W = ±2.93
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 8" AC W)
SEE DETAIL "C" ON SHEET 18

STA 6+47.93, OS 19.45' RT, EL MONTAN AVE
EXIST 24" PVC W CROSSING
TOP OF 24" PVC W = ±779.71
PROP SURFACE ELEVATION = ±790.16
DEPTH TO TOP OF 24" PVC W = ±10.45
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER ABOVE 24" PVC W)
SEE DETAIL "F" ON SHEET 18

STA 7+98.92, OS 21.78' RT, EL MONTAN AVE
EXIST 12" CI W CROSSING
TOP OF 12" CI W = ±783.53
PROP SURFACE ELEVATION = ±787.36
DEPTH TO TOP OF 12" CI W = ±3.83
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 12" CI W)
SEE DETAIL "C" ON SHEET 18

0 40 80
SCALE: 1" = 40'



A

B

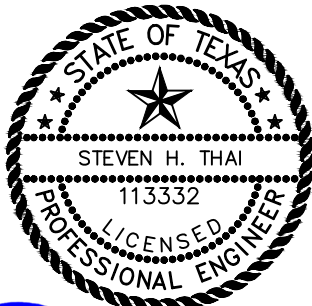
C

D

E

MATCH LINE STA 9+00
SEE SHEET 14

PARCEL: 471557
NCB 11019 BLK 5
LOT 16
102 BEECHWOOD LN
SAN ANTONIO, TX 78216
OWNER: MYERS
KYLE DUNCAN



8/24/26

NOTES:

- LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WATERLINE AS REQUIRED FOR THE INSTALLATION OF PROPOSED WATERLINE (NSPI).
- CONTRACTOR SHALL REFER TO SAWS SPECIFICATIONS (ITEM 839) REGARDING RESTRAINED LENGTH.
- CONTRACTOR SHALL ADD OR REPLACE CUSTOMER SHUT OFF VALVES FOR EVERY SERVICE.
- DIMENSIONS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL DIMENSIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR.
- CONTRACTOR SHALL REPLACE TRENCH ASPHALT PAVEMENT. PAY LIMIT PER SAWS STD DD-804-01.
- CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING MAIL BOXES TO ORIGINAL OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION (NSPI).
- PROPOSED WATER MAIN SHALL MAINTAIN 5' MINIMUM COVER FROM FINAL PROPOSED GRADE ELEVATION (SEE SAWS STD DD-812-01) UNLESS OTHERWISE INDICATED ON THE PLANS.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TREE PROTECTION NOTE:

THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS ONE FOOT (1') PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A TEN INCH (10") DIAMETER TREE WOULD HAVE A TEN FOOT (10') RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEARLY ACCORDING TO PROPER PRUNING METHODS (NSPI). ALL OAK WOUNDS SHALL BE PAINTED OVER, WITHIN TWENTY (20) MINUTES TO PREVENT OAK WILT.

ASBESTOS CEMENT (AC) PIPE:

ASBESTOS CEMENT PIPE, ALSO KNOWN AS TRANSITE PIPE, AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM) IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THE PIPE OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000. (SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE)

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITIES
299	Flowable Fill (High Strength)	CY	2
550	Trench Excavation Safety Protection	LF	323
818	6" PVC Waterline	LF	5
818	8" PVC Waterline	LF	35
818	12" PVC Waterline	LF	283
826	Valve Box Adjustment	EA	1
828	8" Gate Valve	EA	1
828	12" Gate Valve	EA	3
834	Fire Hydrant	EA	1
836	Pipe Fittings, All Sizes & Types	TN	1.0
840	6" Water Tie-Ins	EA	1
840	12" Water Tie-Ins	EA	1
841	Hydrostatic Testing	EA	2
844	2" Blow-off, Temporary	EA	2
844	2" Blow-off, Permanent	EA	1
858	Concrete Encasement, Cradles, Saddles, and Collars	CY	3

STA 8+07.23, OS 9.65' RT, EL MONTAN AVE
PROP 2" GAS CROSSING
(REFER TO CPS GAS PLANS)
BOTTOM OF 2" GAS = ±783.87
PROP SURFACE ELEVATION = ±786.53
DEPTH TO BOTTOM OF 2" GAS = ±2.66
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW PROP 2" GAS)
SEE DETAIL "C" ON SHEET 18

F

CAUTION !!!

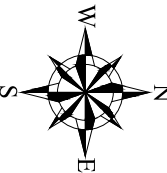
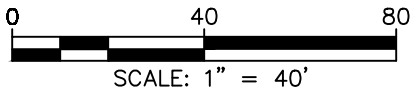
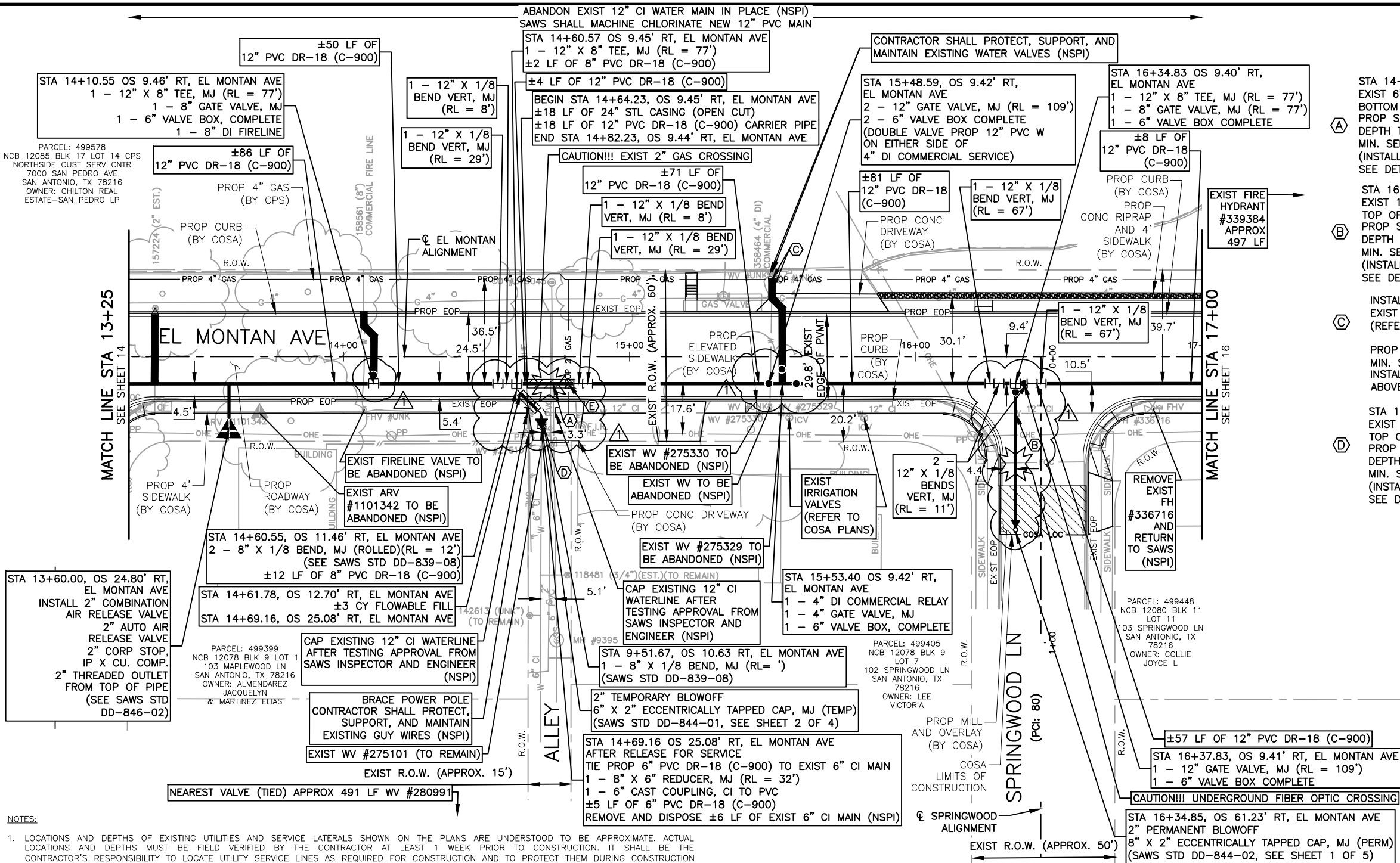
EXIST GAS;
EXIST OVERHEAD ELECTRIC CROSSINGS.

LEGEND

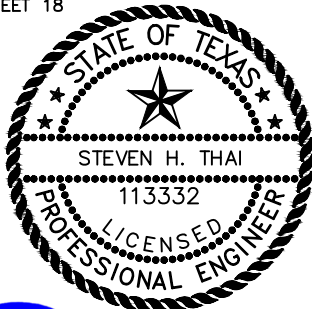
PROP. WATER MAIN	10-12" EL
EXIST. WATER MAIN	10-12" EL
GAS MAIN	10-12" EL
SANITARY SEWER	10-12" EL
STORM SEWER	10-12" EL
UTILITY POLE LINE	10-12" EL
UNDERGROUND ELEC	10-12" EL
TELEPHONE LINE	10-12" EL
COMMUNICATION	10-12" EL
FIBER OPTIC CABLE	10-12" EL
OVERHEAD ELEC	10-12" EL
CHAIN LINK FENCE	10-12" EL
WOOD FENCE	10-12" EL
DUAL BRANCH SERV.	10-12" EL
NEW UNMETERED	10-12" EL
SERVICE:	10-12" EL
3/4" SINGLE	10-12" EL
1" DUAL	10-12" EL
SERVICE RECONNECT:	10-12" EL
3/4"	10-12" EL
1" OR LARGER	10-12" EL
SERVICE RELAY:	10-12" EL
3/4"	10-12" EL
1" OR LARGER	10-12" EL
SERVICE RELOCATE:	10-12" EL
3/4"	10-12" EL
1" OR LARGER	10-12" EL
RELOCATE METER	10-12" EL
NEW SERVICE:	10-12" EL
3/4"	10-12" EL
1" OR LARGER	10-12" EL

NO.	8/20/26	ADDENDUM 2	ST
DATE		REVISION	APP.
BGE, Inc. 7330 San Pedro, Suite 301 San Antonio, Tx 78216 Tel: 210-581-3600 • www.bgeinc.com TBPE Registration No. F-1046			
UNINTECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-6003 TBPE Reg. No. F-5499 Fax: (210) 641-8279 www.unintech.com			
BARBARA DR - DRAINAGE PHASE 3 LF SAWS WATER WORK EL MONTAN AVE LINE A WATER PLAN 1 STA 5+00 - STA 9+00			
DEVELOPER: SAN ANTONIO WATER SYSTEM CONT.			
SUBMITTED			
APPROVED			
MAP No. 158608, 160606, 160608			
BUDGET PROJ.			
100% SUBMITTAL			
PROJECT NO. 23-5061			
DATE: 8/20/2026			
DRAWN: NC			
DESIGN: ST			
CHECK: JV			
SHEET NO. : 13 OF 18			

BGE INC. G:\TXC\Projects\SAWS\CoSA 2022-2027 Bond Program - Barbara Drive Phase 3\03_CADD\01_Sheets\05_BARBARA WATER PLAN 3_EL MONTAN.dwg Aug 20, 2026 - 6:22pm jtdondre



- STA 14+73.23, OS 9.45' RT, EL MONTAN AVE
EXIST 6" PVC SAN SEWER LATERAL CROSSING
BOTTOM OF 6" PVC SAN SEWER = ±778.62
PROP SURFACE ELEVATION = ±783.63
DEPTH TO BOTTOM OF 6" PVC SAN SEWER = ±5.01
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 6" PVC SAN SEWER LATERAL)
SEE DETAIL "D" ON SHEET 18
- STA 16+34.83, OS 19.85' RT, EL MONTAN AVE
EXIST 12" CI W CROSSING
TOP OF 12" CI W = ±778.58
PROP SURFACE ELEVATION = ±782.67
DEPTH TO TOP OF 12" CI W = ±4.09
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 12" CI W)
SEE DETAIL "C" ON SHEET 18
- INSTALL PROP SERVICE WITH MIN. 5' COVER:
EXIST 4" GAS TO BE ABANDONED
(REFER TO CPS GAS PLANS)
- PROP 4" GAS (REFER TO CPS GAS PLANS)
MIN. SEPARATION DISTANCE OF 2'
INSTALL PROP SERVICE
ABOVE PROP 4" GAS (BY CPS)
- STA 14+68.63, OS 19.54' RT, EL MONTAN AVE
EXIST 12" CI W CROSSING
TOP OF 12" CI W = ±781.18
PROP SURFACE ELEVATION = ±783.90
DEPTH TO TOP OF 12" CI W = ±2.72
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 12" CI W)
SEE DETAIL "C" ON SHEET 18
- STA 14+78.55, OS 9.44' RT, EL MONTAN AVE
PROP 2" GAS CROSSING
(REFER TO CPS GAS PLANS)
BOTTOM OF 2" GAS = ±779.83
PROP SURFACE ELEVATION = ±783.67
DEPTH TO BOTTOM OF 2" GAS ±3.84
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW PROP 2" GAS
SEE DETAIL "C" ON SHEET 18



8/24/26

NOTES:

- LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WATERLINE AS REQUIRED FOR THE INSTALLATION OF PROPOSED WATERLINE (NSPI).
- CONTRACTOR SHALL REFER TO SAWS SPECIFICATIONS (ITEM 839) REGARDING RESTRAINED LENGTH.
- CONTRACTOR SHALL ADD OR REPLACE CUSTOMER SHUT OFF VALVES FOR EVERY SERVICE.
- DIMENSIONS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL DIMENSIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR. (NSPI)
- CONTRACTOR SHALL REPLACE TRENCH ASPHALT PAVEMENT. PAY LIMIT PER SAWS STD DD-804-01.
- CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING MAIL BOXES TO ORIGINAL OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION (NSPI).
- PROPOSED WATER MAIN SHALL MAINTAIN 5' MINIMUM COVER FROM FINAL PROPOSED GRADE ELEVATION (SEE SAWS STD DD-812-01) UNLESS OTHERWISE INDICATED ON THE PLANS.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTORS IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TREE PROTECTION NOTE:

THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS ONE FOOT (1') PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A TEN INCH (10") DIAMETER TREE WOULD HAVE A TEN FOOT (10') RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS (NSPI). ALL OAK WOUNDS SHALL BE PAINTED OVER, WITHIN TWENTY (20) MINUTES TO PREVENT OAK WILT.

ASBESTOS CEMENT (AC) PIPE:

ASBESTOS CEMENT PIPE, ALSO KNOWN AS TRANSITE PIPE, AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM) IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THE PIPE OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000. (SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE)

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITIES
299	Flowable Fill (High Strength)	CY	3
550	Trench Excavation Safety Protection	LF	446
818	6" PVC Waterline	LF	5
818	8" PVC Waterline	LF	66
818	12" PVC Waterline	LF	357
822	Customer Shut-off Valve	EA	1
824	Relay 2" Long Service	EA	1
824	Relocate 4" Long Service (Inc. Gate Valve)	EA	1
824	Relocate 8" Fire Line (Inc. Gate Valve)	EA	1
828	12" Gate Valve	EA	3
833	Existing Meter & New Meter Box Relocation	EA	1
836	Pipe Fittings, All Sizes & Types	TN	0.9
840	6" Water Tie-Ins	EA	1
841	Hydrostatic Testing	EA	1
844	2" Blow-off, Temporary	EA	1
844	2" Blow-off, Permanent	EA	1
846	2" Combination Air Release Valve Assembly	EA	1
856.1	12" PVC Waterline Carrier Pipe (Open Cut)	LF	18
856.2	24" Steel Casing (Open Cut)	LF	18

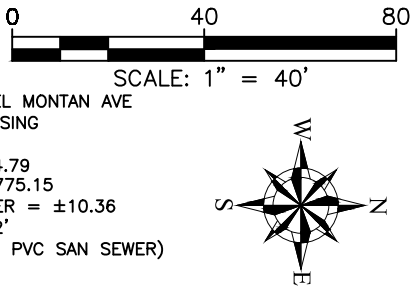
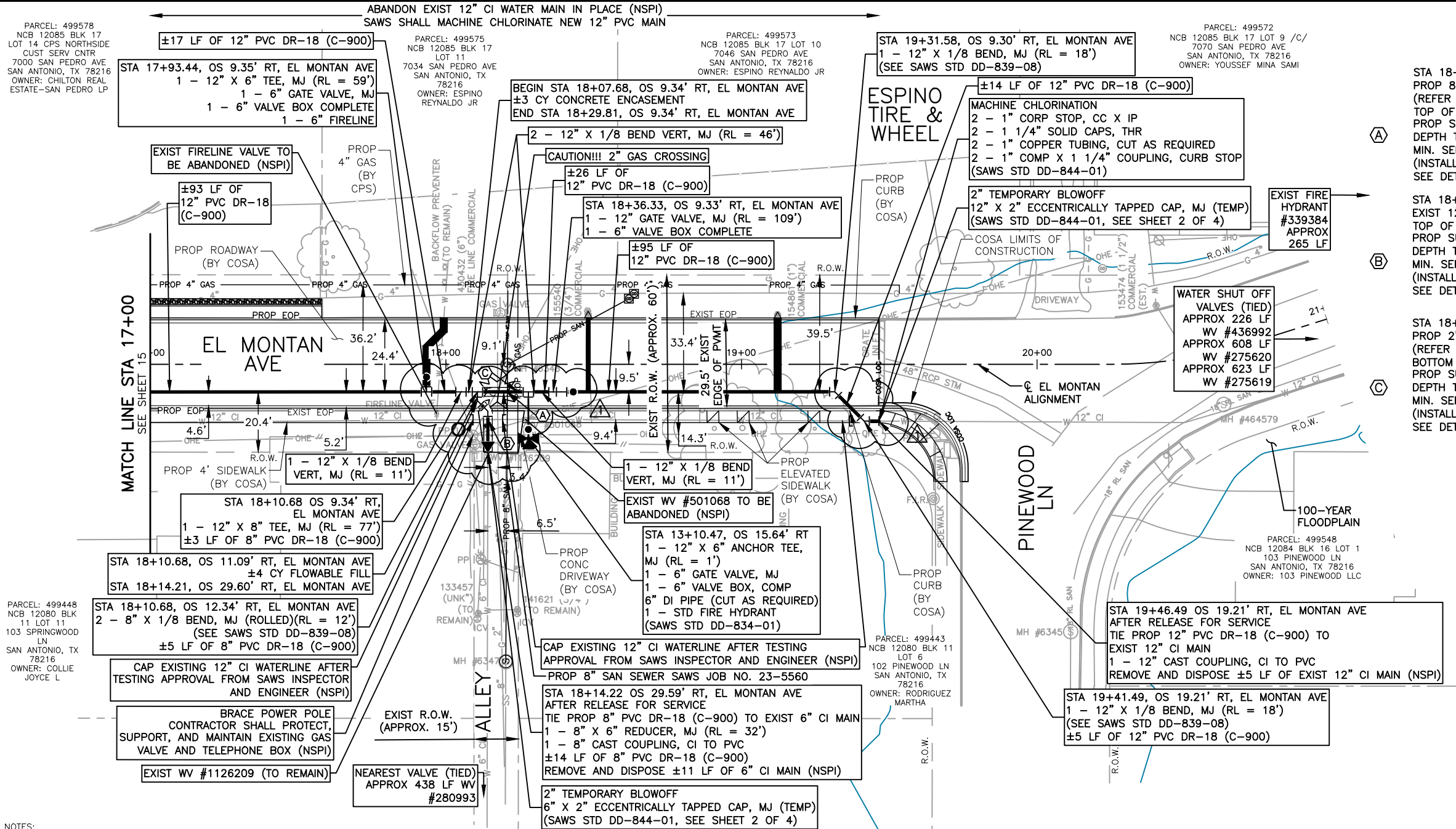


LEGEND

PROP. WATER MAIN	10"
EXIST. WATER MAIN	10"
GAS MAIN	10"
SANITARY SEWER	10"
STORM SEWER	10"
UTILITY POLE LINE	10"
UNDERGROUND ELEC	10"
TELEPHONE LINE	10"
COMMUNICATION	10"
FIBER OPTIC CABLE	10"
OVERHEAD ELEC	10"
CHAIN LINK FENCE	10"
WOOD FENCE	10"
DUAL BRANCH SERV.	10"
NEW UNMETERED	10"
SERVICE:	
3/4" SINGLE	10"
1" DUAL	10"
SERVICE RECONNECT:	
3/4"	10"
1" OR LARGER	10"
SERVICE RELAY:	
3/4"	10"
1" OR LARGER	10"
SERVICE RELOCATE:	
3/4"	10"
1" OR LARGER	10"
RELOCATE METER	10"
NEW SERVICE:	
3/4"	10"
1" OR LARGER	10"

NO.		8/20/26		ADDENDUM 2		ST	
DATE		REVISION		APP.			
BGE, Inc. 7330 San Pedro, Suite 301 San Antonio, Tx 78216 Tel: 210-581-3600 • www.bgeinc.com TBPE Registration No. F-1046							
UNINTECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-6003 TBPE Reg. No. F-5499 Fax: (210) 641-8279 www.unintech.com							
BARBARA DR - DRAINAGE PHASE 3 LF SAWS WATER WORK EL MONTAN AVE LINE A WATER PLAN 3 STA 13+25 - STA 17+00							
DEVELOPER: SAN ANTONIO WATER SYSTEM CONT.							
SUBMITTED							
APPROVED							
MAP No. 158608, 160606, 160608		BUDGET PROJ.					
100% SUBMITTAL		PROJECT NO. 23-5061		DATE: 8/20/2026			
DRAWN: NC		DESIGN: ST		CHECK: JV		SHEET NO : 15 OF 18	

BGE INC. G:\TXC\Projects\SAWS\CoSA 2022-2027 Bond Program - Barbara Drive Phase 3\03_CADD\01_Sheets\05_BARBARA WATER PLAN 3_EL MONTAN.dwg Aug 20, 2026-6:22pm jtdondre



- (A) STA 18+20.80, OS 13.65' RT, EL MONTAN AVE
PROP 8" PVC SAN SEWER CROSSING
(REFER TO SAN SEWER PLANS)
TOP OF 8" SAN SEWER = ±764.79
PROP SURFACE ELEVATION = ±775.15
DEPTH TO TOP OF 8" SAN SEWER = ±10.36
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER ABOVE 8" PVC SAN SEWER)
SEE DETAIL "B" ON SHEET 18
- (B) STA 18+14.22, OS 18.72' RT, EL MONTAN AVE
EXIST 12" CI W CROSSING
TOP OF 12" CI W = ±773.36
PROP SURFACE ELEVATION = ±775.86
DEPTH TO TOP OF 12" CI W = ±2.50
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 12" CI W)
SEE DETAIL "C" ON SHEET 18
- (C) STA 18+24.35, OS 9.34' RT, EL MONTAN AVE
PROP 2" GAS CROSSING
(REFER TO CPS GAS PLANS)
BOTTOM OF 2" GAS = ±772.07
PROP SURFACE ELEVATION = ±774.91
DEPTH TO BOTTOM OF 2" GAS = ±2.84
MIN. SEPARATION DISTANCE OF 2'
(INSTALL PROP WATER BELOW 2" GAS)
SEE DETAIL "B" ON SHEET 18

NOTES:

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ASBESTOS CEMENT (AC) PIPE:

ASBESTOS CEMENT PIPE, ALSO KNOWN AS TRANSITE PIPE, AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM) IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THE PIPE OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000. (SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE)

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITIES
299	Flowable Fill (High Strength)	CY	4
550	Trench Excavation Safety Protection	LF	272
818	8" PVC Waterline	LF	22
818	12" PVC Waterline	LF	250
822	Customer Shut-off Valve	EA	2
824	Relay 3/4" Long Service	EA	1
824	Relay 1" Long Service	EA	1
824	Relocate 6" Fire Line (Inc. Gate Valve)	EA	1
828	12" Gate Valve	EA	1
833	Existing Meter & New Meter Box Relocation	EA	2
834	Fire Hydrant	EA	1
836	Pipe Fittings, All Sizes & Types	TN	0.7
840	6" Water Tie-Ins	EA	1
840	12" Water Tie-Ins	EA	1
841	Hydrostatic Testing	EA	2
844	2" Blow-off, Temporary	EA	2
858	Concrete Encasement, Cradles, Saddles, and Collars	CY	3



LEGEND

PROP. WATER MAIN
EXIST. WATER MAIN
GAS MAIN
SANITARY SEWER
STORM SEWER
UTILITY POLE LINE
UNDERGROUND ELEC
TELEPHONE LINE
COMMUNICATION
FIBER OPTIC CABLE
OVERHEAD ELEC
CHAIN LINK FENCE
WOOD FENCE
DUAL BRANCH SERV.
NEW UNMETERED SERVICE:
3/4" SINGLE
1" DUAL
SERVICE RECONNECT:
3/4"
1" OR LARGER
SERVICE RELAY:
3/4"
1" OR LARGER
SERVICE RELOCATE:
3/4"
1" OR LARGER
RELOCATE METER
NEW SERVICE:
3/4"
1" OR LARGER

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FILE: \\pzhoul\data\bbi\client\COSanAntonio\23000000563.000_CPS Gas Relocation\6.00_CADD\6.03_Drawings\6.03.1_Sheet_Files\Barbara Dr_Drainage_Ph3_04_Location Data Table.dgn DATE: 8/27/2026 1:49:25 PM

All proposed gas mains and services are to be installed at the planned Gas Top of Pipe Elevation indicated on the Location Data Table.

Location Data Table - OBLATE DRIVE PH1 - Pages 8 to 9

CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance		Installation Method	
	Address	Location # / Street Name		Existing Grade	Proposed Final Grade	Estimated Subgrade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Estimated Subgrade	Proposed Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility	Bore	Trench
		11	19+05	747.9	747.9	746.7	16" SP	739.0	8.9	8.9	7.6	Exist. 18" San	742.2	741.1		2.0		X
		12	19+15	746.5	746.5	745.3	16" SP	738.2	8.3	8.3	7.0	Prop. 21" San	741.4	740.2		2.0		X
		13	21+41	748.4	748.4	747.1	8" SP	745.1	3.3	3.3	2.1	Exist. 18" San	742.3	741.2	2.0			X
		14	21+75	748.3	748.3	747.0	8" SP	735.6	12.7	12.7	11.4	(2) Exist. 9x6' MBC	744.8	737.6		2.0		X

1

Location Data Table - OBLATE DRIVE PHII - Pages 10

CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance		Installation Method	
	Address	Location # / Street Name		Existing Grade	Proposed Final Grade	Estimated Subgrade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Estimated Subgrade	Proposed Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility	Bore	Trench
		16	21+75	748.3	748.3	747.1	16" SP	743.3	5.0	5.0	3.8	(3) Prop. 9'x10' MBC	739.9	729.2	2.7			X

Location Data Table - DELLWOOD DRIVE - Pages 11 to 12

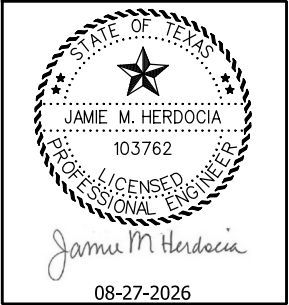
CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance		Installation Method	
	Address	Location # / Street Name		Existing Grade	Proposed Final Grade	Estimated Subgrade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Estimated Subgrade	Proposed Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility	Bore	Trench
		21	23+32	749.7	749.7	748.4	2" P	746.7	3.0	3.0	1.6	Prop. 8" Water	744.5	743.9	2.1			X
		22	23+35	749.5	749.5	748.3	2" P	746.4	3.1	3.1	1.9	(3) Prop. 9'x10' MBC	741.1	730.4	5.1			X
		23	23+21	749.4	749.4	748.2	2" P	746.4	3.0	3.0	1.8	Prop. 21" Swr.	743.2	741.5	3.0			X

NOTES:

1. Clearance of proposed facilities represents the distance (feet) between the outside diameter of the gas line and the outside edge of the proposed buried utility. All dimensions are in feet.
2. Contractor must verify location and depth of all existing utilities prior to installation of gas facilities.

GAS CONTRACTOR SHOULD COORDINATE WITH ROAD CONTRACTOR IN CONJUNCTION WITH THE SEQUENCE OF UTILITY RELOCATION.

GAS CONTRACTOR SHOULD "OPERATE WITH A HEIGHTENED SENSE OF AWARENESS AND BE PREPARED TO HALT WORK IF CONTAMINATED SOIL CONDITIONS ARE ENCOUNTERED TO ALLOW FOR INSPECTION AND TESTING ON BEHALF OF SAWS".



NO.	DRAWING REVISION	DATE	DESIGNED BY:	UNINTECH CONSULTING ENGINEERS, INC.	JOB TITLE	JOB NO.
0	Planning Completed	6/16/26	BinkleyBarfield	UNINTECH CONSULTING ENGINEERS, INC.	BARBARA DR DRAINAGE PHASE 3 GAS RELOCATION OBLATE DR & DELLWOOD DR LOCATION DATA TABLES	40745343
1	Addendum 01	8/27/26	CHECKED BY: <i>[Signature]</i>	DATE APPROVED: 8-28-26	PROJECT NO. 23-03927	
			MANAGER APPROVAL: <i>[Signature]</i>	DATE APPROVED: 8-28-26		

OBLATE DR PHASE 1 TIE-IN PLAN - INSTALL 16SP AND TEMPORARY 8SP CROSSING, AND ISOLATE AND ABANDON OLD 16SP. (SEE PG 8 & 9)

1. Install ST1, ST2 and 16SP and temporary 8SP gas main.
2. Stopple gas at ST1 and ST2.
3. Utilize TR1 to release pressure on isolated segment. Cold cut and tie in new 16" SP and temporary 8" SP.
4. Purge from ST2 to TR1 until 100% gas is obtained.

OBLATE DR PHASE 2 TIE-IN PLAN - INSTALL PERMANENT 16SP CROSSING AND ISOLATE AND REMOVE TEMPORARY 8SP. (SEE PG 10)

1. Install ST1A, and proposed 16SP.
2. Stopple gas at ST2 and ST1A.
3. Utilize TR2 to release pressure on isolated segment. Cold cut and tie in new 16" SP.
4. Purge from ST1A to TR2 until 100% gas is obtained.

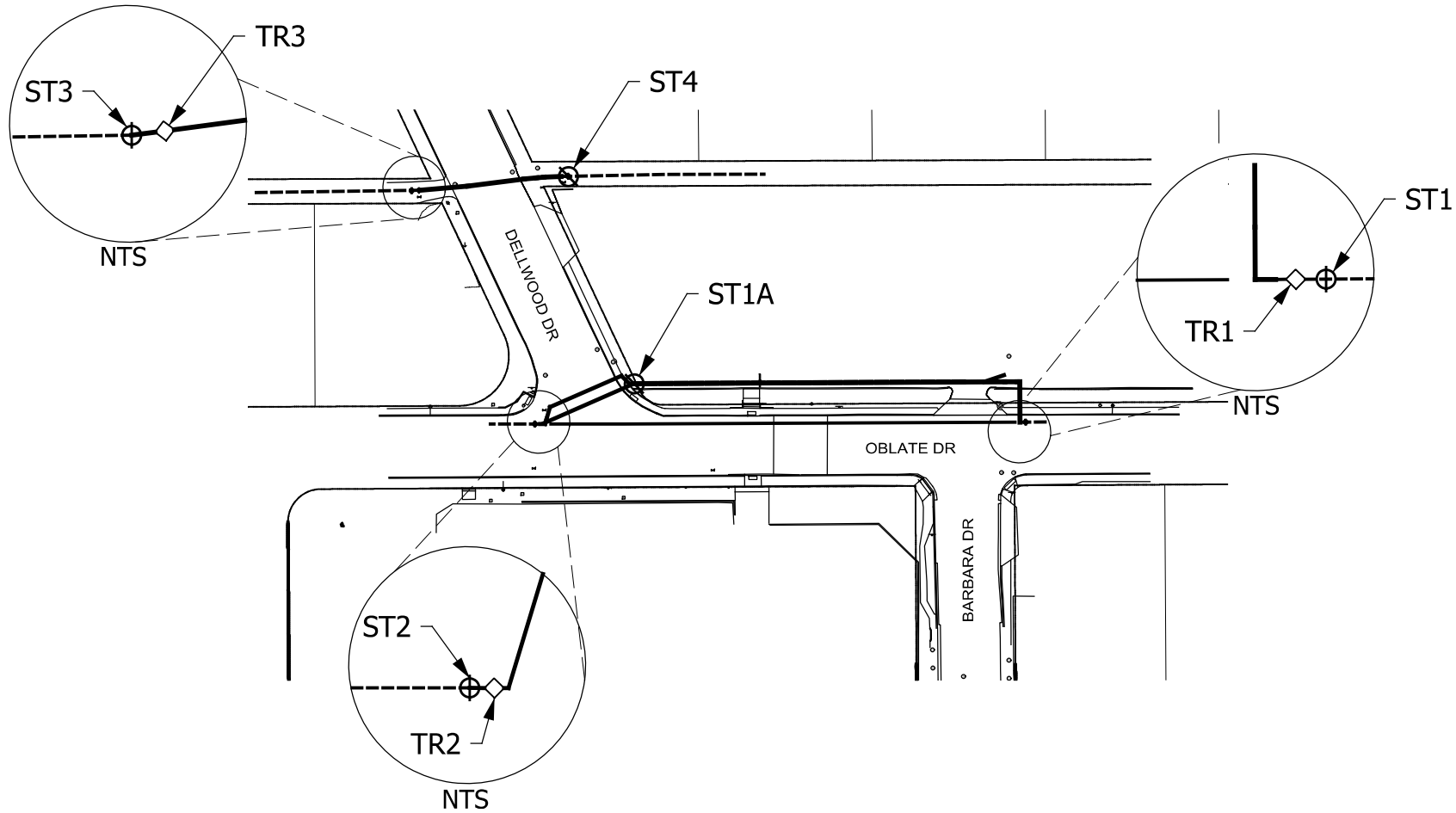
* PHASE 2 TIE-IN SHALL BE COMPLETED WHEN AMBIENT AIR TEMP IS 65° F OR ABOVE AND IS EXPECTED TO REMAIN ABOVE 65° F FOR THE DURATION OF THE OPERATION.

DELLWOOD DR PHASE 1 - INSTALL 2" SHORT STOP AND ABANDON 2" STEEL CROSSING DELLWOOD. (SEE PG11)

1. Install ST3, ST4 and stopple gas at ST3 and ST4.
2. Utilize TR3 to release pressure on isolated segment. Cold cut and install 2-2" caps.

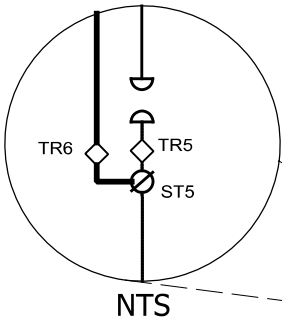
DELLWOOD DR PHASE 2 - INSTALL 2" STEEL GAS CROSSING DELLWOOD DR. (SEE PG 12)

1. Install and Tie-in 2PA.
2. Purge from ST4 to TR3 until 100% gas is obtained.



EL MONTAN AVE: INSTALL AND TIE IN 4" PA AND ABANDON EXIST 4SP

1. Install 3 way tee's ST5, ST6A, ST7A, ST8A, ST9A and ST10 and stop gas between segment 5-10.
2. Install and tie-in proposed 4" PA at ST5, ST6A, ST7A, ST8A, ST9A and ST10.
3. Purge from ST10 to TR6 until 100% gas is obtained.
4. Utilize TR5 to release pressure on isolated segment. Cold cut and install 2-2" caps.



NO.	DRAWING REVISION	DATE	DESIGNED BY:	UNINTECH CONSULTING ENGINEERS, INC.	JOB TITLE	JOB NO.
0	Planning Completed	6/16/26	BinkleyBarfield	Binkley & Barfield, Inc. TxEng F-257 14310 Northbrook Dr, Suite 200 San Antonio, TX 78232 210.502.2175 BinkleyBarfield.com	BARBARA DR DRAINAGE PHASE 3 GAS RELOCATION EL MONTAN AVE, OBLATE DR & DELLWOOD DR PURGE PLAN	40745343
1	Addendum 01	8/25/26	CHECKED BY: <i>[Signature]</i> MANAGER APPROVAL: <i>[Signature]</i>	DATE APPROVED 8-28-26 DATE APPROVED 8-28-26	MAP QUADRANTS 158-608 158-606 160-608 160-606 X=2128062 Y=13731260 PROJECT NO. 23-03927	
				UNINTECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-8003 TBPE Reg. No. F-5499 Fax: (210) 641-8279 www.unitech.com	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	

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DATE: 8/27/2026 1:56:30 PM



NO.	DRAWING REVISION	DATE
0	Planning Completed	6/16/26
1	Addendum 01	8/27/26

DESIGNED BY:	Binkley & Barfield, Inc. TxEng F-257 14310 Northbrook Dr. Suite 200 San Antonio, TX 78232 210.502.2175 BinkleyBarfield.com
CHECKED BY:	<i>[Signature]</i>
DATE APPROVED	8-28-26
MANAGER APPROVAL:	<i>[Signature]</i>
DATE APPROVED	8-28-26

	UNITECH CONSULTING ENGINEERS, INC. 2431 E. Evans Road San Antonio, Texas 78259 Phone: (210) 641-8003
MAP QUADRANTS	160-608 X=2129311 160-606 Y=13731281

PROJECT NO.	23-03927
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JOB TITLE	BARBARA DR DRAINAGE PHASE 3 GAS RELOCATION PHASE 2 PLAN & PROFILE - DELLWOOD DR
JOB NO.	40745343



P.O. BOX 1771
SAN ANTONIO, TX 78296

Contract Exhibit GAS-6



SCALE

HORIZ: 0' 5' 10' 20'
VERT: 0' 2.5' 5'

PHASE 2- INSTALL 2PA
PERMANENT CROSSING

INSTALL
2-AM32PKGD

PROP 8" PVC
WATER LINE

EX ROW

ALLEY

W

EX ROW

EXIST 2

2" STOPPLE FITTING
(PHASE 1)

INSTALL
2PA GAS

EX ROW

EXIST 12" WATER LINE

EXIST 2

EXIST 8" SAN SWR
(TO BE REMOVED)

EXIST 8" SAN SWR
(TO BE REMOVED)

EXIST SAN SWR MH
(TO BE REMOVED)

PROP 8" PVC WATER LINE

EXIST (2) 9' X 6' MBC
(TO BE REMOVED)

PROP (3) 9' X 10' MBC
(BY OTHERS)

EXIST 12" WATER LINE

EXIST 18" SAN SWR
(TO BE REMOVED)

EXIST 6" WATER LINE
(TO BE REMOVED)

EXIST 18" SAN SWR
(TO BE REMOVED)

EXIST SAN
SWR MH

PROP 21" PVC SAN SWR

PHASE 2- RECONNECT GAS LINES
FOLLOWING INSTALLATION OF
3-9'X10' MBC AND REMOVAL
OF 2-9'X6' MBC (BY OTHERS)
(SEE PAGE 11 FOR PHASE 1)

2" STOPPLE FITTING
(PHASE 1)

EXIST 2

EX ROW

ALLEY

W

EX ROW

INSTALL
2-AM32PKGD

GAS CONTRACTOR SHOULD COORDINATE WITH ROAD
CONTRACTOR IN CONJUNCTION WITH THE SEQUENCE OF
UTILITY RELOCATION.

GAS CONTRACTOR SHOULD "OPERATE WITH A HEIGHTENED
SENSE OF AWARENESS AND BE PREPARED TO HALT WORK IF
CONTAMINATED SOIL CONDITIONS ARE ENCOUNTERED TO
ALLOW FOR INSPECTION AND TESTING ON BEHALF OF SAWS".

NOTE: CPS Energy inspector must complete "Asbuilt Quantity" and
"Manufacturer" columns of each Material Summary Table and add
rows for material used that is not listed.

Material Summary Table - DELLWOOD DR CROSSING (PHASE 2)

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock #
10	PIPE PLASTIC 2" IPS SDR 11 COIL WITH TRACER WIRE		96'		1013959
17	TRANSITION FITTING 2" STEEL TO PLASTIC		2		1016105
30	ANODE MAGNESIUM PKG 21" 32LB GRADE B		2		1016921
35	2" TEST RISER		1		1018487

SECTION 3

Special Provisions

Item 401 Reinforced Concrete Pipe

Delete in its entirety:

Section 401.6 Payment

Add:

Section 401.6 Payment:

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Reinforced Concrete Pipe", "Reinforced Concrete Pipe (Arch)", or "Reinforced Concrete Pipe (Elliptical)" of the size and D-load specified or of the size and class specified. This price is full compensation for excavation and backfilling; constructing, furnishing, transporting, placing and joining pipes; shaping the bed; cutting pipes on skew or slope; connecting to new or existing structures; breaking back, removing and disposing of portions of the existing structure; replacing portions of the existing structure; cutting pipe ends skew or slope; and equipment, labor, tools and incidentals required to complete the work.

Protection methods for excavations greater than 5 ft. deep will be measured and paid for as required under Item 550, "Trench Excavation Safety Protection", or Item 551, "Special Shoring". When jacking, boring, or tunneling is used at the Contractor's option, payment will be made under this Item. When jacking, boring, or tunneling is required, payment will be made under Item 406, "Jacking, Boring or Tunneling Pipe or Box".

Item 403 Storm Sewer Junction Boxes and Inlets

Section 403.6 Bid Item

Delete:

Items 403.7 – 403.14

Add:

Item 403.7 – Inlet Type I (Complete)(10 ft)

Item 403.8 – Inlet Type II (Complete)(10 ft)

Item 403.9 – Inlet Extensions (10 ft)

Item 403.10 – Inlet (Complete)(5')(TxDOT)

Item 403.11 – Inlet (Extension)(5')(TxDOT)

Item 403.12 – Special Inlet (Complete)

Note: See Bid Item Summary revisions.

Item 502 Concrete Sidewalks

Delete first paragraph from 502.4.F.Joints:

Add :

Section 502.4.F Joints:

Unless otherwise specified on the plans or as agreed to by the Engineer, tooled joints with rounded edges will be placed at intervals equal to the sidewalk width and will be opened with one-half inch (1/2") radius by one and one-half inch (1 1/2") depth and closed by one-half inch (1/2") radius by one-inch (1") depth.

Section 502.6 Payment:

Delete from first paragraph: "removal and disposal of existing concrete;"

Item 503 Asphaltic Concrete, Portland Cement Concrete and Gravel Driveways

Delete in its entirety:

Section 503.6 Payment

Add :

Section 503.6 Payment:

The work performed as prescribed by this item will be paid for at the contract unit price bid per square yard for "Portland Cement Concrete Driveway", Portland Cement Concrete Driveway – Commercial", "Asphaltic Concrete Driveway", or "Gravel Driveway", which price shall be full compensation for preparing the subgrade, for furnishing and placing all materials, manipulations, labor, tools, equipment and incidentals necessary to complete the work.

Item 505 Concrete Riprap

Delete in its entirety:

Section 505.4.A Concrete Reinforcement

Add :

Section 505.4.A Concrete Reinforcement:

Unless otherwise shown on the plans, reinforce concrete riprap with 6 x 6 – W6 x W6 welded wire fabric or with No. 4 reinforcing bars spaced at a maximum of 18 in. in each direction unless otherwise shown. A combination of welded wire fabric and reinforcing bars may be provided when both are permitted. Provide a minimum 6-in. lap at all splices. At the edge of the riprap, provide a minimum horizontal cover of 1 in. and a maximum cover of 3 in. Place the first parallel bar no more than 6 in. from the edge of concrete. Use approved supports to hold the reinforcement approximately equidistant from the top and bottom surface of the slab. Adjust reinforcement during concrete placement to maintain correct position. Reinforcement protruding from existing riprap shall be thoroughly cleaned.

Item 520 Hydromulching

Section 520.4 Construction (D) Slurry:

Delete: “Annual Ryegrass (Oct. through March 15) 20 lbs per 1,000 sqft”.

Add: “Annual Ryegrass (Oct. through March 15) 5-10 lbs per 1,000 sqft”.

Item 523 Adjusting of Vehicular & Pedestrian Gates

Delete in its entirety:

Item 523 Adjusting of Vehicular & Pedestrian Gates

Add:

523.1. DESCRIPTION: This item shall govern for the adjustment of manual or motorized, chain link or wrought iron, vehicular or pedestrian gates made necessary by the construction of new driveways or sidewalk entrances.

523.2. MATERIALS: Additional materials needed to perform chain link fences gate adjustments shall conform to those specified in Item 507, “Chain Link Wire Fence”. Materials used to adjust wrought iron gates shall be of the same type of material and configuration as the existing gate including any masonry. A combination of new and existing materials may be used if approved by the Engineer and property owner.

523.3. EQUIPMENT: Provide the machinery, tools and equipment necessary for proper prosecution of the work. All machinery, tools and equipment used shall be maintained in a satisfactory and workmanlike manner.

523.4. CONSTRUCTION: Approval from the property owner and Engineer shall be obtained by the Contractor in order to perform the necessary work required. The Contractor shall adjust gates vertically and or relocated gates horizontally by removing the existing gate from the gate posts and relocating and/or replacing (if necessary) the existing hinges, sliding mechanism, or rollers at a level such that the gate shall be provided with the necessary clearance to operate properly. Contractor shall coordinated extent of adjustments to be made with the property owner and Engineer prior to commencing any gate adjustments. Contractor shall notify property owner or tenant 48 hours in advance of any gate adjustments.

All fabric, posts, braces, gates, fittings, bolts, tension wire, tracks, wheels, rollers, operating mechanism, electrical service, wiring and miscellaneous hardware shall be carefully removed in such a manner that they will not be marred or damaged. After removal of the existing gate has been complete, any material deemed not useable shall be replaced by the Contractor with new material of the same design and quality as the existing material. A new gate constructed of the same type of material and configuration as the existing gate may be installed if so desired by the Contractor. All fences and gates shall be cut and welded by a qualified welder.

If necessary, the existing fence may be extended, reinforced, or offset in a manner that will not detract from the decorative appeal of the fence. All extensions and offsets of existing fences and gates shall be approved by the property owner.

All gates adjusted vertically shall be extended vertically so that the height of the gate will match existing fence height. Gates that are adjusted vertically shall be provided with a concrete channel for track, gate, sliding mechanism as detailed on plans or as approved by the Engineer and property owner.

All welding will be performed in a workman-like manner with solid joints of minimum protrusion. The adjusted gate will be constructed in such a manner to have minimal flexure.

Any excessive splatter of the weld will be ground off. Existing wrought iron fences and gates will be cleaned and any surface imperfections, any rust and paint will be removed completely. All surfaces of the existing gates will be roughened to accept a new coat of paint. All newly added areas will be completely primed and painted to match existing paint. A second coat will be required to cover any holidays or spots of insufficient coverage. The existing fence and gate will be spot primed in areas where surface imperfections or rust have been removed.

Painting will be by hand or spray. Areas to be painted shall be primed in accordance with paint manufacturer's recommendations. Two coats of point shall be applied to the existing fence and gate and all newly added parts. The final surface will be of even color without streaks, drips bubbles, or any other surface imperfection. Paint used shall match existing paint in color and texture. Color shall be approved in writing by the property owner.

523.5 MEASUREMENT: Vehicular and pedestrian gates will be measured for each driveway or sidewalk entrance and/or exit of each type that is adjusted. Additional fencing that may be required for relocation or adjustment of gates will be subsidiary to gate adjustments or gate relocation and will not be measured as a separate pay item.

523.6 PAYMENT: The work performed and the materials furnished as prescribed by this item will be paid for at the bid price per gate for “Adjusting of Vehicular & Pedestrian Gates,” which price shall be full compensation for removing and installing the existing gate and for furnishing all additional materials, all labor, tools, equipment and incidentals necessary to complete the work.

523.7 Bid Item:

Item 523.1 – Adjusting Chain Link Vehicular Gate – Each

Item 523.2 – Adjusting Chain Link Vehicular Gate (Motorized) - Each

Item 523.3 – Adjusting Chain Link Pedestrian Gate – Each

Item 523.4 – Adjusting Wrought Iron Vehicular Gate – Each

Item 523.5 – Adjusting Wrought Iron Vehicular Gate (Motorized) - Each

Item 523.6 – Adjusting Wrought Iron Pedestrian Gate – Each

ITEM 205 –001WM: HOT MIX ASPHALTIC CONCRETE PAVEMENT

For this project, Item 205, “Hot Mix Asphaltic Concrete Pavement,” of the Standard Specifications, is hereby amended with respect to the clauses cited below, and no other clauses or requirements of this Item are waived or changed hereby.

205.2. Materials, H. Additives is supplemented by the following:

Warm Mix Asphalt (WMA) is defined as additives that allow a reduction in the temperature at which asphalt mixtures are produced and placed. The use of WMA is required. Produce an asphalt mixture within the temperature range of 215°F and 275°F. Delivery and placement temperature of WMA shall be a maximum of 235 °F. Unless otherwise directed, use only WMA additives on the approved list maintained by TxDOT’s Construction Division.

205.4 Construction, C. Job-Mix Formula. The first paragraph is voided and replaced by the following:

Job-Mix Formula (JMF) shall be designed and submitted to the Engineer with the inclusion of the WMA additive. Document the WMA additive used and recommend rate on the JMF submittal. The Engineer and the Contractor will verify JMF based on plant-produced mixture from the trial batch, unless otherwise approved.

205.4 Construction, D. Production is supplemented by the following:

Produce the mixture and monitor the temperature of the material in the truck before shipping to ensure that it does not exceed 275°F or is less than 215°F. The City will not pay for or allow placement of any WMA produced at more than 275°F or less than 215°F, unless otherwise directed

Minimum Pavement Surface Temperatures		
Minimum Pavement Surface Temperatures in Degrees Fahrenheit		
Originally Specified High Temperature Binder Grade	Subsurface Layers or Night Paving Operations	Surface Layers Placed in Daylight Operations
PG 64 or lower	45	50
PG 70	55 ¹	60 ¹
PG 76 or higher	60 ¹	60 ¹

- Contractors may pave at temperatures 10°F lower than the values shown in Table 10A when utilizing a paving process including WMA or equipment that eliminates thermal segregation. In such cases, the contractor must use either a hand held thermal camera or a hand held infrared thermometer operated in accordance with Tex-244-F to demonstrate to the satisfaction of the Engineer that the uncompacted mat has no more than 10°F of thermal segregation

205.4 Construction, G. Placement, 3. Placement Operations

Table 9 is voided and not replaced.

205.7 Bid Item is supplemented by the following:

Item 205.1WM – Warm Mix Asphaltic Concrete Type A – per square yard ____ inches pavement thickness

Item 205.2WM – Warm Mix Asphaltic Concrete Type B – per square yard ____ inches pavement thickness

Item 205.3WM – Warm Mix Asphaltic Concrete Type C – per square yard ____ inches pavement thickness

Item 205.4WM – Warm Mix Asphaltic Concrete Type D – per square yard ____ inches pavement thickness

Item 526 Field Office

General

- None**

Standard Specifications:

- Delete Item 526 – Field Office (dated June 2008) in its entirety and replace with Item 526 – Field Office (dated June 2010) shown on the attached document.**

Item 500 Concrete Curb, Gutter, And Concrete Curb and Gutter

Add Pay Item 500.5 – Mountable Concrete Curb – per linear foot

Special Specification 7114

Water Filled Barrier



1. DESCRIPTION

Furnish and install water filled barriers, as shown on the plans.

2. MATERIALS

Provide water filled barrier as shown on Traffic Control Standard Sheets (TCSS); listed in the Compliant Work Zone Traffic Control Device List (CWZTCD); complying with NCHRP Report 350: Recommended procedures for the Safety Evaluation of Highway Features (NCHRP 350) or AASHTO MASH of the test level specified (TL-3, TL-4, etc.); and the current Texas Manual on Uniform Traffic Control Devices (TMUTCD).

3. CONSTRUCTION

- 3.1. **Installation.** Install water filled barrier at the locations shown on the plans per the phasing shown on the plans, unless otherwise directed. Supplement with retroreflective delineation to improve daytime/nighttime visibility. Place in accordance to manufacturer's application and installation requirements specific to the device.
- 3.2. **Moving and Resetting.** Remove water filled barrier from a stockpile or from an existing location and reset in a new location as shown on the plans or as directed. Install water filled barrier in conformance with pertinent standards and manufacturer recommendations. Provide additional materials to complete the installation as needed. Dispose of unsalvageable materials in conformance with federal, state, and local regulations. If applicable, new water filled barrier that are initially placed in temporary work zone applications and later moved to a permanent location will be paid for under "Move and Reset".
- 3.3. **Removal.** Retain and remove water filled barrier from right-of-way when no longer in use. Dispose of unsalvageable materials in conformance with federal, state, and local regulations.
- 3.4. **Literature.** Submit 1 full set of manufacturer's literature and manufacturer's installation recommendations.

4. MEASUREMENT

This Item will be measured by the foot complete in place, based on the nominal lengths of water filled barrier sections as shown on the plans.

5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided for under "measurement," will be paid for at the unit price bid for "Water Filled Barrier" of the test type (350 or MASH) and test level specified (TL-3, TL-4, etc.). This price includes manipulations, labor, tools, equipment, and incidentals.

- 5.1. **Furnish and Install.** This price is full compensation for furnishing and installing the water filled barrier and connection hardware at the locations on the plans or as directed, filling the barrier with water per manufacturer's recommendations, and securing the water barrier in place per manufacturer's recommendations or as directed.

CPS ENERGY
EXHIBIT GAS-5
COMPENSATION SCHEDULE
CONSTRUCTION OF NATURAL GAS DISTRIBUTION FACILITIES

WR # 40745343 Barbara Dr Ph3

NOTE A: For each of the items below, the Contractor's work is to include: preparation of the ROW/easement, trenching, joining, testing, coating steel, connecting new pipe to existing pipe and all necessary fittings for tie-ins such as stopple fittings and 3-way stopple tees, sand padding, backfilling and suitably compacting per GAS-2, installing all necessary cathodic protection devices such as CPTLBs and anodes, replacing paving, curbs, and sidewalks removed or damaged during construction, and any remediation/cleanup as may be necessary in each instance.
NOTE B: Trenching is considered to be the normal method of service installation and is required on all service adjustments. A gas service can be rerun by INSERTION, when the old service is PULLED from the riser to one foot inside the property line, ONLY at the discretion of the CPSE Inspector.
NOTE C: Bid quantities & unit prices shown are estimates by CPSE. Actual Per foot prices shall be applied to the actual distance measured along the top of the trench or the actual length of the bore, as applicable. The COST to abandon the existing main(s) is not an ADDITIONAL item and is to be included in the Unit Price(s) for the gas main.
NOTE D: Unit prices shall include insurance & bond costs. CPSE insurance requirements are specified in Exhibit GAS-1.

ITEM #	UNIT ID	DESCRIPTION	QTY.	UNITS	UNIT PRICE(\$/UNIT)	TOTAL PRICE(\$USD)
1	1a	Install 2" plastic pipe with tracer wire by trench	5	LF		\$ -
2	7a	Install 2" plastic pipe with tracer wire by bore	240	LF		\$ -
3	1c	Install 4" plastic pipe with tracer wire by trench	1231	LF		\$ -
4	7c	Install 4" plastic pipe with tracer wire by bore	130	LF		\$ -
5	1e	Install 8" steel pipe by trench	111	LF		\$ -
6	7i	Install 16" steel pipe by trench	259	LF		\$ -
7	18b	Pump test and tie existing service to new main - 2"	2	EA		\$ -
8	17a	Rerun Gas service from Main to Meter - Short Side	1	EA		\$ -
9	4a	Street Restoration. 2" Type D WMA w/10" Type B WMA. To be used as directed by the CPS Energy Representative	10.0	SY		\$ -
10	4b	Flowable Fill. To be used as directed by the CPS Energy Representative (Not To Exceed Capacity)	19.9	CY		\$ -
11	34b	8" Temporary Steel Bypass Install ** if needed per CSR temperature constraint <65dF	1.0	EA		\$ -
12	13a	Install additional 16" stopple fittings as directed by CPSE Representative	1.0	EA		\$ -
SUM						\$ -

Project Engineer: Cameron Ruiz, EIT

Date: 08/24/2026