



**N. Mel Waiters Way 24-inch Water Main Replacement – Phase II**  
**Solicitation Number: CO-00417-SM**  
**Job No.: 21-4001**

**ADDENDUM 2**

**June 1, 2021**

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

<b>RESPONSES TO QUESTIONS</b>
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- 1. Do the fittings require arc-sprayed zinc coated as well as the pipe?**  
*Response: Fittings shall meet SAWS standard material specification 10-10 Specifications for Gray-Iron and Ductile Iron Fittings.*
- 2. Has the existing pipe been tested by the previous contractor?**  
*Response: Yes. The pipe has been pressure tested from approximate station 1+00 to station 25+60.*
- 3. Is the existing 24in waterline in service?**  
*Response: Yes, the existing water line is in service from approximate station 1+05 to the existing butterfly valve at approximate station 20+60.*
- 4. At the bore pit location near STA 26+75, there is an existing 24in C.I. Is this waterline in service? And as per the note to remove if in conflict, can a bid item be added for temporary waterline if it's on service?**  
*Response: A temporary water main is not required. The 24-inch water line in the bore pit near station 26+75 is currently in service, but will be shut down prior to starting construction per the sequencing notes on sheet 3. Contractor shall coordinate with SAWS Production to have the main turned off.*
- 5. Tie-in at STA 25+60, is there a concrete cap on the exiting waterline and is the waterline pressurized?**  
*Response: There is not a concrete cap on the waterline at this location. The water line is not currently under pressure between approximate station 20+60 to approximate station 25+60. See response to question 3 above.*
- 6. When is the anticipated start date for this project?**  
*Response: The anticipated Board award date for this project is July 2021, with NTP in approximately mid-July.*
- 7. Currently, we're getting lead times of 2-3 months on D.I. pipe, as well as foreign fittings and restraints. Will SAWS consider extending project duration?**  
*Response: The contract time has been extended to account for the expanded scope of work included with this addendum. See updated duration in the contract documents attached to this addendum.*
- 8. Previous project phase seems to have Issues with trench collapse at various locations, this will affect the mill and overlay paving. As per Item SP511 and Detail on sht 22, we are to use flowable fill 24IN Thick and 10in of TY B, can we use flowable fill in lieu of the 10in TY B the trench repair as well?**  
*Response: Type B hot mix asphaltic pavement will be required as shown in the detail on sheet 22.*

**9. Has the previous trench been compacted?**

*Response: This contract has been modified to include removal and replacement of existing backfill on the pipeline installed in Phase I. See updates to the Bid Proposal, Special Provisions to Technical Specifications and plans attached to this addendum.*

<b>CHANGES TO THE SPECIFICATIONS</b>
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1. Replace Table of Contents in its entirety with the attached Table of Contents. The following items were updated:
  - a. Added City of San Antonio Standard Specification 511 Cutting and Replacing Pavements (Trench Repair).
2. Replace Bid Proposal (BP-1 through BP-3) in its entirety with the attached Bid Proposal (BP-1 through BP-3). The following items were updated:
  - a. Changed contract duration.
  - b. Changed pay item SP511 Cutting and Replacing Pavements (Trench Repair – Phase II) to pay item SP511.1 Cutting and Replacing Pavements (Trench Repair – Flowable Fill).
  - c. Added pay item SP511.2 Cutting and Replacing Pavements (Trench Repair – Full Depth).
  - d. Modified quantities for pay items 103.3, 205.2, 413, 500.1, and 550.
3. Replace Proposal Certification (PC-1) in its entirety with the attached Proposal Certification (PC-1). The following items were updated:
  - a. Changed contract duration.
4. Replace Contract Agreement (CA-1 through CA-2) in its entirety with the attached Contract Agreement (CA-1 through CA-2). The following items were updated:
  - a. Changed contract duration.
5. Replace Special Conditions (SC-1) in its entirety with the attached Special Conditions (SC-1). The following items were updated:
  - a. Added requirement for sequencing for trench restoration for pipeline installed in Phase I.
6. Replace Special Provisions to Technical Specifications (SPTS-1 through SPTS-6) in its entirety with the attached Special Provision to the Technical Specifications (SPTS-1 through SPTS-7). The following items were updated:
  - a. Changed requirements and added an additional pay item for Item 511 Cutting and Replacing Pavements (Trench Repair).

<b>CHANGES TO THE PLANS</b>
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1. Sheet 3 – Replace sheet 3 dated 4/13/21 with attached sheet 3 dated 5/28/21.
2. Sheet 16 – Replace sheet 16 dated 4/13/21 with attached sheet 16 dated 5/28/21.
3. Sheet 17 – Replace sheet 17 dated 4/13/21 with attached sheet 17 dated 5/28/21.
4. Sheet 18 – Replace sheet 18 dated 4/13/21 with attached sheet 18 dated 5/28/21.
5. Sheet 19 – Replace sheet 19 dated 4/13/21 with attached sheet 19 dated 5/28/21.
6. Sheet 20 – Replace sheet 20 dated 4/13/21 with attached sheet 20 dated 5/28/21.
7. Sheet 22 – Replace sheet 22 dated 4/13/21 with attached sheet 22 dated 5/28/21.

<b>CLARIFICATIONS</b>
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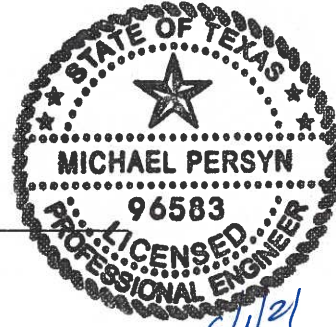
1. The engineer’s estimate has been revised to \$2,415,308.00.

END OF ADDENDUM

This Addendum, including these three (3) pages, is twenty-six (26) pages with attachments in its entirety.



Michael Persyn, PE  
K Friese + Associates



6/1/21  
TBPE F-6535

- Attachments:
- Table of Contents
  - Bid Proposal (BP-1 through BP-3)
  - Proposal Certification (PC-1)
  - Contract Agreement (CA-1 through CA-2)
  - Special Conditions (SC-1)
  - Special Provisions to the Technical Specifications (SPTS-1 through SPTS-7)
  - Plan sheets 3, 16, 17, 18, 19, 20, 22

**Contract Documents  
Table of Contents**

<u>BIDDING AND CONTRACT REQUIREMENTS</u>	<u>PAGE</u>
Invitation to Bidders ( <i>Rev. 11.28.2018</i> ).....	IV-1
Electronic Bid Opening Instructions.....	IB-1
Instructions to Bidders ( <i>Rev. 6.20</i> ).....	IB-2
Workers' Compensation Insurance Coverage Requirements ( <i>Rev. 9.08.2015</i> ).....	WC-1
Contractor's Bid Packet Checklist ( <i>Rev. 4.2.2020</i> ).....	BC
Bid Proposal.....	BP-1
Proposal Certification ( <i>Rev. 4.14.2017</i> ).....	PC-1
Statement of Bidder's Experience.....	SBE
Good Faith Effort Plan ( <i>Rev. 5.18.2017</i> ) .....	GFEP-1
Conflict of Interest ( <i>Rev. 1.1.2021</i> ).....	Form CIQ
Wage Decisions .....	WR-1
General Conditions of the Contract ( <i>Rev. 6.15</i> ).....	GC-1
Contract Agreement ( <i>Rev. 02.14.2019</i> ).....	CA-1
Performance and Payment Bond ( <i>Rev. 10.18.2018</i> ) .....	PB-1
Contractor Suspension Policy ( <i>Rev. 3.14</i> ).....	SP-1
Contractor Security Procedures ( <i>Rev. 3.4.2020</i> ).....	SP-10
Request for Taxpayer Identification Number and Certification Form ( <i>Rev. 10.18</i> ).....	W-9
Instructions for Completing the ACORD Certificate of Liability Insurance ( <i>Rev. 12.19</i> ).....	ICS
Supplemental Conditions ( <i>Rev. 9.27.19</i> ) .....	SS-1
Special Conditions. ....	SC-1
Special Provisions to the Technical Specifications.....	SPTS-1

(Separate Documents)

**TECHNICAL SPECIFICATIONS**

**SAWS SPECIFICATIONS FOR WATER & SANITARY SEWER CONSTRUCTION (2017)\***

100	Mobilization
101	Preparation of ROW
307	Concrete Structures
550	Trench Excavation Safety Protection
804	Excavation, Trenching and Backfill
812	Water Main Installation
814	Ductile Iron Pipe
818	PVC (C-900, C-905, and C-909) Pipe Installation
828	Gate Valves
830	Butterfly Valves
834	Fire Hydrants
836	Grey and Ductile-Iron Fittings
839	Anchorage/Thrust Blocking and Joint Restraint
840	Water Tie-Ins
841	Hydrostatic Testing Operations
844	Blowoff Assemblies
846	Air Release Assemblies

847	Disinfection
848	Sanitary Sewers
856	Jacking, Boring, or Tunneling Pipe
869	Project Signs
902	Safety and Health Program
903	Construction QA/QC Program
904	Construction Phase Procedures
906	Water Use Accountability
1110	Progress Schedule
1112	Project Record Documents
1114	Pre-Construction Video
3000	Handling Asbestos Cement Pipe

\* SAWS Standard Specifications are part of the Project Specifications but are not included in these documents - current versions can be obtained at: [http://www.saws.org/business\\_center/specs/constspecs/](http://www.saws.org/business_center/specs/constspecs/)

**CoSA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (Latest Edition)\***

103	Remove Concrete
203	Tack Coat
205	Hot Mix Asphaltic Concrete Pavement
208	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement
210	Rolling
301	Reinforcing Steel
303	Welded Wire Flat Sheets
413	Flowable Fill
500	Concrete Curb, Gutter, and Concrete Curb and Gutter
502	Concrete Sidewalks
503	Asphaltic Concrete, Portland Cement Concrete, and Gravel Driveways
506	Concrete Retaining Wall – Combination Type
511	Cutting and Replacing Flexible Pavements (Trench Repair)
515	Topsoil
516	Sodding
540	Temporary Erosion, Sedimentation, and Water Pollution Prevention Control

**SPECIAL SPECIFICATIONS**

SS6706 Grout Abandonment of Water Main

**SEPARATE REFERENCED DOCUMENTS**

- City of San Antonio Standard Specifications -current versions can be obtained at: <http://www.sanantonio.gov/TCI/Current-Vendor-Resources/Standard-Specifications-and-Details>
- City of San Antonio Right-of-Way Ordinance and Underground Utility Excavation Manual available at: <http://www.sanantonio.gov/TCI/Services/RightofWayandPermits.aspx>
- SAWS Standard Material Specification available at: [http://www.saws.org/business\\_center/specs/matspecs/](http://www.saws.org/business_center/specs/matspecs/)

## BID PROPOSAL

PROPOSAL OF \_\_\_\_\_, a corporation  
a partnership consisting of \_\_\_\_\_  
an individual doing business as \_\_\_\_\_

### THE SAN ANTONIO WATER SYSTEM:

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

**PLEASE SEE ATTACHED LIST OF BID ITEMS.**

\_\_\_\_\_  
BIDDER'S SIGNATURE & TITLE

\_\_\_\_\_  
FIRM'S NAME (TYPE OR PRINT)

\_\_\_\_\_  
FIRM'S ADDRESS

\_\_\_\_\_  
FIRM'S PHONE NO. /FAX NO.

\_\_\_\_\_  
FIRM'S EMAIL ADDRESS

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

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

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **330** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

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

### Statement on President's Executive Orders

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)?

Yes  No

Item No.	Spec No.	Bid Items Specification No. & Description	Unit	Qty.	Unit Price	Total Price
1	103.1	REMOVE CONCRETE CURB - PHASE I	LF	370	\$	\$
2	103.1	REMOVE CONCRETE CURB - PHASE II	LF	927	\$	\$
3	103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE I	SF	968	\$	\$
4	103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE II	SF	945	\$	\$
5	203	TACK COAT - PHASE I	GAL	504	\$	\$
6	203	TACK COAT - PHASE II	GAL	352.7	\$	\$
7	205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (5" COMPACTED DEPTH)	SY	361	\$	\$
8	205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE I	SY	1137	\$	\$
9	205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE II	SY	2097	\$	\$
10	205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE I	SY	5036	\$	\$
11	205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE II	SY	3527	\$	\$
12	208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE I	SY	5036	\$	\$
13	208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE II	SY	3527	\$	\$
14	413	FLOWABLE FILL	CY	1200	\$	\$
15	500.1	CONCRETE CURB - PHASE I	LF	370	\$	\$
16	500.1	CONCRETE CURB - PHASE II	LF	927	\$	\$
17	502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE I	SY	84	\$	\$
18	502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE II	SY	105	\$	\$
19	503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	24	\$	\$
20	506.1	CONCRETE RETAINING WALLS - COMBINATION TYPE	CY	8	\$	\$
21	SP511.1	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FLOWABLE FILL)	SY	102.2	\$	\$
22	SP511.2	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FULL DEPTH)	SY	1887	\$	\$
23	515	TOP SOIL (3") - PHASE I	CY	0.9	\$	\$
24	515	TOP SOIL (3") - PHASE II	CY	0.1	\$	\$
25	516.2	ST. AUGUSTINE SODDING - PHASE I	SY	10	\$	\$
26	516.2	ST. AUGUSTINE SODDING - PHASE II	SY	1	\$	\$
27	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1	\$	\$
28	535	4" WIDE YELLOW LINE	LF	120	\$	\$
29	535	24" WIDE WHITE LINE	LF	70	\$	\$
30	535	12" WIDE BLACK LINE	LF	140	\$	\$
31	540	TEMPORARY EROSION, SEDIMENTATION, AND POLLUTION PREVENTION CONTROL	LS	1	\$	\$
32	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	1932	\$	\$
33	SP814	24" DI CLASS 200 WATERLINE (ALL DEPTHS)	LF	1711	\$	\$
34	818	6" PVC C900 WATERLINE (ALL DEPTHS)	LF	36	\$	\$
35	818	8" PVC C900 WATERLINE (ALL DEPTHS)	LF	65	\$	\$

Item No.	Spec No.	Bid Items Specification No. & Description	Unit	Qty.	Unit Price	Total Price
36	828	8" GATE VALVE	EA	2	\$	\$
37	830	24" BUTTERFLY VALVE	EA	2	\$	\$
38	834.1	FIRE HYDRANT	EA	2	\$	\$
39	836	PIPE FITTING (ALL SIZES & TYPES)	TN	5.9	\$	\$
40	840	6" WATER TIE-IN	EA	4	\$	\$
41	840	24" WATER TIE-IN	EA	5	\$	\$
42	841	HYDROSTATIC TESTING	EA	5	\$	\$
43	844	2" BLOW-OFF, TEMPORARY	EA	4	\$	\$
44	844	4" BLOW-OFF, TEMPORARY	EA	5	\$	\$
45	SP846	2" AIR RELEASE ASSEMBLIES	EA	3	\$	\$
46	848	8" PVC SDR 26 WASTEWATER LINE (ALL DEPTHS)	LF	120	\$	\$
47	856	JACKING, BORING, OR TUNNELING 42"	LF	122	\$	\$
48	856	STEEL CASING 42"	LF	122	\$	\$
49	856	24" CARRIER PIPE FOR JACKING, BORING, OR TUNNELING	LF	122	\$	\$
50	864-S1	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS)	EA	4	\$	\$
51	3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF A.C. PIPE (ALL PIPE SIZES)	LF	455	\$	\$
52	SS6706	24" WATERLINE GROUTED IN PLACE	LF	3854	\$	\$
53	SS6706	30" CMP STORM DRAIN GROUTED IN PLACE	LF	275	\$	\$
SUBTOTAL (ITEMS 1 - 53)					\$	

54	SP100	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION	EA	1	\$	\$
55	100	MOBILIZATION AND DEMOBILIZATION, MAX 10% OF LINE ITEMS 1-53	LS	1	\$	\$
56	101	PREPARING ROW, MAX 5% OF LINE ITEMS 1-53	LS	1	\$	\$

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

<b>TOTAL BID PRICE</b> <b>(TO INCLUDE LINE ITEMS 1-53 AND 54-56)</b>	\$
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# PROPOSAL CERTIFICATION

Accompanying this proposal is a Bid Bond or Certified or Cashier's Check payable to the Order of the San Antonio Water System for \_\_\_\_\_ dollars (\$ \_\_\_\_\_), which amount represents five percent (5%) of the total bid price. Said bond or check is to be returned to the bidder unless the proposal is accepted and the bidder fails to execute and file a contract within **10** calendar days after the award of the Contract, in which case the check shall become the property of said San Antonio Water System, and shall be considered as payment for damages due to delay and other inconveniences suffered by said San Antonio Water System due to the failure of the bidder to execute the contract. The San Antonio Water System reserves the right to reject any and all bids.

It is anticipated that the Owner will act on this proposal within **60** calendar days after the bid opening. Upon acceptance and award of the contract to the undersigned by the Owner, the undersigned shall execute standard San Antonio Water System Contract Documents and make Performance and Payment Bonds for the full amount of the contract within **10** calendar days after the award of the Contract to secure proper compliance with the terms and provisions of the contract, to insure and guarantee the work until final completion and acceptance, and the guarantee period stipulated, and to guarantee payment of all lawful claims for labor performed and materials furnished in the fulfillment of the contract.

It is anticipated that the Owner will provide written Authorization to Proceed within **30** days after the award of the contract.

The work called for in this Contract shall commence on the date indicated in the SAWS written Authorization to Proceed. Under no circumstances shall the work commence prior to the date provided for in the SAWS issued, written Authorization to Proceed. Work shall be completed in full within **330** consecutive calendar days.

The undersigned further acknowledges compliance with "Wage and Labor Standard Provisions" of this contract and the use of the Blue Book rental rates for establishment of equipment rental rates whether owned or leased during the course of this Contract.

In completing the work contained in this proposal the undersigned certifies that bidder's practices and policies do not discriminate on the grounds of race, color, religion, sex or national origin and that the bidder will affirmatively cooperate in the implementation of these policies and practices.

Signed: \_\_\_\_\_  
Company Representative

\_\_\_\_\_  
Company Name

\_\_\_\_\_

\_\_\_\_\_  
Address

Please return bidder's check to: \_\_\_\_\_  
Company Name

\_\_\_\_\_

\_\_\_\_\_  
Address

# CONTRACT

«Contract\_No»  
21-4001

STATE OF TEXAS §  
COUNTY OF BEXAR §

## KNOW ALL MEN BY THESE PRESENTS:

That this Agreement made and entered into this «Board Date» day of «Board Month», A.D.,«Board Year», by and between **THE SAN ANTONIO WATER SYSTEM BOARD OF TRUSTEES**, hereinafter called **THE SAN ANTONIO WATER SYSTEM, COUNTY OF BEXAR, STATE OF TEXAS**, Acting through its Contracting Officer, First Party, hereinafter termed the Owner, and «Company Name», of the City of «City», County of «County», State of «State », Second Party, hereinafter termed the Contractor.

**WITNESSETH:** That for and in consideration of the payments and agreements hereinafter mentioned to be made and performed by said First Party, (Owner), the said Second Party, (Contractor), hereby agrees with the First Party to commence and complete the construction of certain improvements in the amount of «Written Contract Amt» Dollars «Formatted Price», for the San Antonio Water System Job No(s). «Bid Opening Date», dated «Bid Opening Date», the same being designated as San Antonio Water System Project N. Mel Waiters Way 24-inch Water Main Replacement – Phase II.

The Contractor shall perform all work shown on the Plans and described Specifications and shall meet all requirements of this Agreement, The General and Special Conditions of the Agreement; and such Orders and Agreements for Extra Work as may subsequently be entered by the above named parties to this Agreement.

The Contractor shall not offer, confer, or agree to confer any benefit or gift to any San Antonio Water System employee and Water System employees are prohibited from soliciting, accepting or agreeing to accept any gifts from outside sources; please see Section M. – Gifts or Benefits of the Water System’s Code of Ethical Standards. Section M of the Water System’s Code of Ethical Standards regarding Gifts or Benefits is available on the SAWS Business Center website.

The Contractor hereby agrees to commence work under this Contract on the date indicated in the SAWS written Authorization to Proceed. Under no circumstances shall the work commence prior to the Contractor's receipt of SAWS issued, written Authorization to Proceed. Computation of Contract Time will begin on the construction start date as indicated on the written Authorization to Proceed. All work specified in these Contract Documents shall be completed within 330 calendar days from the construction start date indicated on the written Authorization to Proceed.

It is agreed and understood by the Owner and the Contractor that the provisions of Chapter 252, Texas Local Government Code, and/or Chapter 2269, Texas Government Code (as amended) apply to this contract. As applicable, the terms of the aforementioned state law are incorporated herein by reference. Contractor and Owner agree that pursuant to state law, Owner authorizes its duly designated administrative officer (Contracting Officer) to negotiate change orders up to and including the amount of \$100,000.00. It is also agreed and understood that any change orders which increase the cost of the work provided under the contract in excess of 25% of the original contract price are prohibited. The cost of the work provided under the contract may be decreased over 25% of the original contract price with the consent of the Contractor.

The Owner agrees to pay the Contractor in current funds, and to make payments on account, for the performance of the work in accordance with the Contract, at the prices set forth in the Contractor's Proposal, subject to additions and deductions, all as provided in the General Conditions of the Agreement.



## Special Conditions

### SC1.0 – GEOTECHNICAL REPORT

A Geotechnical Report been developed for SAWS on this project and has been made available for Contractors for informational purposes only. SAWS will require the execution of a SAWS disclaimer form by the Contractor as a condition of and prior to the release of the report. To complete the disclaimer form and obtain the report, please go to the following link on SAWS website: [http://www.saws.org/business\\_center/ContractSol/](http://www.saws.org/business_center/ContractSol/).

### SC2.0 – SEQUENCING

Contractor shall begin restoration of the trench for pipeline installed in Phase I within 30 days of issuance of the ROW permit by the City of San Antonio and approval of applicable submittals related to the trench restoration. It is the intent of this requirement that the contractor begins restoring the Phase I pipeline trench prior to final restoration activities for the entire project.

Contractor shall restore trench in front of Tynan Early Childhood Education Center (including intersections with Gulf Street and Gorman Street) during the weekends or planned school closures (eg Week of November 22-26, 2021 or December 20-31, 2021) to minimize impacts to the school.

# Special Provisions to Technical Specifications

## A. Revision to CoSA Specification Item 511 Cutting and Replacing Pavements (Trench Repair)

**511.1 DESCRIPTION: DELETE** this section in its entirety and **REPLACE** with the following:

*511.1 DESCRIPTION: Cut pavements, replace base and subbase material, and replace base material and pavement as noted in the plans.*

**511.2 MATERIALS: ADD** the following:

*H. Flowable Fill: Item 413, "Flowable Fill."*

*I. Modified Grade 5 Gravel: SAWS Item 804, "Excavation, Trenching, and Backfill"*

**511.4.C CONSTRUCTION: ADD** the following:

*3. Flowable Fill: Replace base courses and subgrade material to the depth shown in the plans with Item 413 "Flowable Fill." Protect flowable fill from traffic for a minimum of 24 hours. Contractor to provide protection from traffic until flowable is sufficiently hard to avoid damage from pedestrian or vehicular traffic.*

**511.4 CONSTRUCTION: ADD** the following:

*E. Removal of Underlying Layers (Subbase).*

*Excavate the existing water main trench installed in Phase I in accordance with SAWS Specification 804 Excavation, Trenching, and Backfill. Excavation shall extend to the top of the initial backfill (or flowable fill where applicable) based on the profile shown in the plans for the Phase I pipeline. Limits of excavation shall be as shown in the plans in order to encompass previous trench width. Minor reductions in the excavation width may be allowed by Inspector where previous trench limits can be clearly noted once exposed. Excavation width shall not be less than 6" wider than the actual trench width. Use caution in excavation to maintain vertical trench walls. Do not excavate more than can be backfilled the same day.*

**511.4 CONSTRUCTION: ADD** the following:

*F. Replacement of Underlying Layers (Subbase).*

*In locations where excavation extended to the top of the initial backfill material, place six inches (6") of additional Modified Grade 5 gravel material to replace any existing material that is removed as part of excavation. Replace material removed*

# Special Provisions to Technical Specifications

*from the Phase I water main trench and place in lifts in accordance with SAWS Specification 804 Excavation, Trenching and Backfill.*

**511.5 MEASUREMENT: DELETE** this section in its entirety and **REPLACE** with the following:

*Cutting and replacing pavements will be measured by the square yard of pavement cut and replaced, of the type and depth indicated in the plans and bid proposal and of the limits shown in the plans. Materials used in replacing bases and pavements such as flowable fill, tack coat and asphaltic concrete pavement will be measured separately under applicable bid items.*

**511.6 PAYMENT: DELETE** this section in its entirety and **REPLACE** with the following:

*Payment for cutting and replacing pavements will be made at the contract unit price bid per square yard for “Cutting and Replacing Pavements (Trench Repair – Flowable Fill)” or “Cutting and Replacing Pavements (Trench Repair – Full Depth)” as shown on the plans. Contractor shall assume depth of existing water main shown in the plans plus up to one (1) foot additional depth of excavation.*

*The contract unit price bid for “Cutting and Replacing Pavements” shall be considered as full compensation for cutting pavements, removing bases and existing trench material, removing and disposing of all surplus materials, furnishing and installing additional Modified Grade 5 gravel, backfilling, quality control testing, and for all manipulations, work, tools, equipment, labor and incidentals necessary to complete the work.*

All other language in this specification 511 remains in full force.

## **B. Revision to CoSA Specification Item 540 Temporary Erosion, Sedimentation and Water Pollution Prevention and Control**

**540.1 DESCRIPTION: ADD** the following:

For additional Stormwater Pollution Prevention Requirements, reference the attached SW3P Notice to Permit Holder regarding updates to the Construction Stormwater Ordinance (Ord. 94002) effective January 1, 2017 attached to the end of the Special Provisions to Technical Specifications.

**540.4.A CONSTRUCTION: DELETE** this section in its entirety and **REPLACE** with the following:

A. *Contractor Responsibilities.*

# Special Provisions to Technical Specifications

1. *SW3P. Contractor shall provide Storm Water Pollution Prevention Plan (SW3P) designed in accordance with the specific or general storm water requirements. SW3P shall be sealed by a professional engineer licensed in the state of Texas. Prevent water pollution from storm water associated with construction activity from entering any surface water or private property on or adjacent to the project site. The Contractor shall effectively prevent and control erosion and sedimentation on the site at the earliest practicable time as outlined in the approved schedule. Control measures, where applicable, will be implemented prior to the commencement of each construction operation or immediately after the area has been disturbed.*

**540.5 MEASUREMENT: DELETE** this section in its entirety and **REPLACE** with the following:

*Temporary water pollution control measures shall be measured by the “Lump Sum”.*

**540.6 PAYMENT: DELETE** this section in its entirety and **REPLACE** with the following:

*Temporary water pollution control measures shall be paid for at the “Lump Sum” price bid for Temporary Erosion Control Measures. Partial payments of the lump sum bid amount for this item shall be paid as follows:*

1. *When temporary stormwater control measures are installed, 60% of the unit price bid amount will be paid.*
2. *Upon removal of the temporary stormwater control measures, the remaining 40% of the lump sum bid amount will be paid.*

All other language in this specification 540 remains in full force.

## **C. Revision to SAWS Standard Specification Item No. 100 Mobilization**

**100.1 DESCRIPTION: ADD** the following:

1. *Intermediate Demobilization and Remobilization of all associated work with this project. This item includes all the Contractor's expenses for an Owner-directed intermediate project demobilization of personnel and equipment that occurs after the contract Notice to Proceed has been given and work has commenced, and the subsequent remobilization of personnel and equipment to complete the Project. These demobilization and remobilizations shall only be authorized upon a written directive from the Owner. Work shall include furnishing all labor, materials, tools, equipment*

# Special Provisions to Technical Specifications

*and incidentals required to demobilize and remobilize for the N. Mel Waiters Way 24-Inch Water Main Replacement – Phase II Project, in accordance with the Contract Documents, complete in place.*

## **100.3 PAYMENTS: ADD** the following:

7. *Intermediate Demobilization and Remobilization: This bid item will only be paid if prior authorized in writing by Owner. This bid item is limited to delays outside of the Contractor's control that are not otherwise provided for in the General Conditions. Examples of these types of delays would be Owner easement acquisition, permitting issues (only those permits not controlled by the Contractor), or other Owner activities. Any other provision contained herein notwithstanding, Contractor will not be entitled to compensation under this bid item for work suspended during the 10 cumulative days allowed for by the Contract in the General Conditions, Article IV, Paragraph 4.8 Suspension of Work by Owner.*

All other language in this specification 100 remains in full force.

## **D. Revision to SAWS Standard Specification Item No. 814 Ductile Iron Pipe**

**814.3 MATERIALS: DELETE** this section in its entirety and **REPLACE** with the following:

**MATERIALS:** *The materials for ductile iron pipe shall conform to the specifications contained within the latest revision of SAWS Material Specification Item No. 05-11 “Ductile Iron Pipe”, except as modified herein, No.10-10 “Gray-Iron and Ductile-Iron Fittings”, and 100-34 “Ductile-Iron Couplings”.*

*The exterior of the ductile iron pipe shall be coated with a layer of arc-sprayed zinc per ISO 8179. The mass of the zinc applied shall be 200 grams/square meter of pipe surface area. A finishing layer topcoat shall be applied to the zinc. The mean dry film thickness of the finishing layer shall not be less than 3 mils with a local minimum not less than 2 mils. The zinc coating system shall conform to ISO 8179-1 “Ductile Iron Pipes – External Zinc-Based Coating – Part 1: Metallic Zinc with Finishing Layer” (ISO 2004).*

*Polyethylene encasement shall be V-Bio Enhanced Polyethylene Encasement or Engineer approved equal. Polyethylene encasement shall consist of three layers of co-extruded linear low-density polyethylene fused into a single thickness of not less than 8 mils. The inside surface of the polyethylene wrap to be in contact with the pipe exterior shall be infused with a blend of antimicrobial biocide to mitigate*



# Special Provisions to Technical Specifications

*microbiologically influenced corrosion and a volatile corrosion inhibitor to control galvanic corrosion.*

**814.4.3.b CONSTRUCTION METHOD: DELETE** this section in its entirety and **REPLACE** with the following:

- b. Open Trench: Ductile iron pipe to be installed in a trench shall be protected in the following manner. Each pipe joint shall be covered with a 8 mil thick polyethylene sleeve that is 2 feet longer than the pipe joint. The sleeve shall cover the full length of the pipe joint, lap over 1 foot on each end of the adjoining pipe joints, and be secured with a minimum of two circumferential turns of pressure sensitive polyvinyl tape. Excess material should be neatly drawn up around the pipe barrel, folded into an overlap on top of the pipe, and held in place by means of pieces of pressure sensitive tape at approximately 2-foot intervals. After assembling the joint, the polywrap tube from the previously installed pipe shall be pulled over the joint and secured by the Contractor. The polywrap tube from the new joint shall be pulled over the first tube and secured by the Contractor to provide a double seal with approximately a 1-foot overlap.*

*Cast iron and ductile iron fittings and valves shall be completely wrapped in 8 mil thick polyethylene film with a minimum of a 1-foot overlap on each end and appropriately taped. Laps shall cover joints with adjoining pipe joints or fittings when installed. Also, the fire Hydrant barrel, from the surface to the valve, shall be wrapped as specified herein.*

*Any damaged areas in the polyethylene film shall be repaired by covering the area with a sheet of polyethylene film large enough to lap over the damaged area 1 foot minimum in any direction and appropriately taped. Extreme care shall be taken at service tap locations to ensure that the tape extends beyond the corporation and onto the service line pipe by a minimum of 1 foot.*

*Prior to placing pipe in the trench, a cushion of approved materials shall be placed in the trench as required by Item No. 804, "Excavation, Trenching and Backfill." Backfill material shall be carefully placed on the pipe so as to avoid any damage to the polyethylene sleeve.*

*The Contractor shall use care to protect and preserve the polyethylene wrap around ductile iron water mains when installing service corporations. The required method is to wrap pipe tape around the pipe over the polywrap in the area to be tapped. The tap is to be made through the tape and polywrap. It is not necessary to remove and replace poly wrap. All exposed pipe, the corporation, and the first 3 feet of the service shall be wrapped and taped to achieve a complete seal. In addition, a sand envelope shall extend over and around the connection to a depth of eight inches above the main.*

# Special Provisions to Technical Specifications

All other language in this specification 814 remains in full force.

## **E. Revision to SAWS Standard Specification Item No. 846 Air Release Assemblies**

**846.3 MATERIALS: ADD** the following:

*2" automatic air release assemblies in plans shall be combination air/vacuum valves.*

All other language in this specification 846 remains in full force.

## **F. Revision to SAWS Standard Specification Item No. 864-S1 Bypass Pumping – Small Diameter Sanitary Sewers**

**864.7 MEASUREMENT AND PAYMENT: DELETE** this section in its entirety and **REPLACE** with the following:

***MEASUREMENT AND PAYMENT:** Measurement for the work specified herein will be per each instance of bypass pumping setup needed for sanitary sewer replacement as called for in the plans.*

*The work prescribed by this item will be paid at the contract unit bid price per each instance of "Bypass Pumping (Small Diameter Sanitary Sewers)" installed as indicated in the plans which shall be full compensation for all labor, materials, and incidentals required for a fully functional bypass or pump and haul system as required in the contract documents. Payment will only be made for instances where pump and haul or stationary bypass pumping systems are installed by the contractor. No payment will be made for instances for bypass pumping called for in the plans but not installed by the contractor.*

All other language in this specification 864-S1 remains in full force.

## **G. Revision to SAWS Standard Specification Item No. 1114 Pre-Construction Video**

**1114.3 EXECUTION: DELETE** this section in its entirety and **REPLACE** with the following:

*Prior to beginning the project, the contractor shall submit two copies of the completed DVD for the entire project prior to submission of request for mobilization for review and approval. Failure to submit DVD will result in denial of any request for payment under the Mobilization line item or Preparation of Right-of-Way*

# Special Provisions to Technical Specifications

All other language in this specification 1114 remains in full force.

- END -

TOTAL ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
100	MOBILIZATION	LS	1
SP100.1	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION	EA	1
101	PREPARING RIGHT OF WAY	LS	1
103.1	REMOVE CONCRETE CURB - PHASE I	LF	370
103.1	REMOVE CONCRETE CURB - PHASE II	LF	927
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE I	SF	968
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE II	SF	945
203	TACK COAT - PHASE I	GAL	504
203	TACK COAT - PHASE II	GAL	352.7
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (5" COMPACTED DEPTH)	SY	361
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE I	SY	1137
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE II	SY	2097
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE I	SY	5036
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE II	SY	3527
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE I	SY	5036
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE II	SY	3527
413	FLOWABLE FILL	CY	1200
500.1	CONCRETE CURB - PHASE I	LF	370
500.1	CONCRETE CURB - PHASE II	LF	927
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE I	SY	84
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE II	SY	105
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	24
506.1	CONCRETE RETAINING WALLS - COMBINATION TYPE	CY	8
SP511.1	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FLOWABLE FILL)	SY	102.2
SP511.2	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FULL DEPTH)	SY	1887
515	TOP SOIL (3") - PHASE I	CY	0.9
515	TOP SOIL (3") - PHASE II	CY	0.1
516.2	ST. AUGUSTINE SODDING - PHASE I	SY	10
516.2	ST. AUGUSTINE SODDING - PHASE II	SY	1
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1
535	4" WIDE YELLOW LINE	LF	120
535	24" WIDE WHITE LINE	LF	70
535	12" WIDE BLACK LINE - PHASE II	LF	140
SP540	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL	LS	1
SP814	TRENCH EXCAVATION SAFETY PROTECTION	LF	1932
814	24" DI CLASS 200 WATERLINE (ALL DEPTHS)	LF	1711
818	6" PVC C900 WATERLINE (ALL DEPTHS)	LF	36
818	8" PVC C900 WATERLINE (ALL DEPTHS)	LF	65
828	8" GATE VALVE	EA	2
830	24" BUTTERFLY VALVE	EA	2
834.1	FIRE HYDRANT	EA	2
836	PIPE FITTING (ALL SIZES & TYPES)	TN	5.9
840	6" WATER TIE-IN	EA	4
840	24" WATER TIE-IN	EA	5
841	HYDROSTATIC TESTING	EA	5
844	2" BLOW-OFF, TEMPORARY	EA	4
SP846	4" BLOW-OFF, TEMPORARY	EA	5
846	2" AIR RELEASE ASSEMBLIES	EA	3
848	8" PVC SDR 26 WASTEWATER LINE (ALL DEPTHS)	LF	120
856	JACKING, BORING, OR TUNNELING 42"	LF	122
856	24" CARRIER PIPE FOR JACKING, BORING, OR TUNNELING	LF	122
856	STEEL CASING 42"	LF	122
864-S1	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS)	EA	4
3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF A.C. PIPE (ALL PIPE SIZES)	LF	455
SS6706	24" WATERLINE GROUTED IN PLACE	LF	3854
SS6706	30" CMP STORM DRAIN GROUTED IN PLACE	LF	275

SP = SPECIAL PROVISION TO STANDARD SPECIFICATION. REFER TO CONTRACT DOCUMENTS FOR DETAILS.  
 SS = SPECIAL SPECIFICATION. REFER TO CONTRACT DOCUMENTS FOR DETAILS.

- NOTE:**
- ADDITIONAL RESTORATION ITEMS BEYOND THOSE SHOWN ON SHEETS 16-21 HAVE BEEN ADDED TO THE OVERALL PROJECT QUANTITIES. THESE ADDITIONAL ITEMS SHALL ONLY BE USED IF AUTHORIZED BY SAWS.

- PROPOSED CONSTRUCTION PHASING:**
- SAWS JOB NO. 16-4011 CONSTRUCTED PHASE I OF THIS PROJECT - LIMITS ARE GENERALLY AS SHOWN ON SHEET 4. 24" MAIN INSTALLED IN PHASE 1 WAS PRESSURE TESTED AND DISINFECTED AND TIED IN AT ALL SIDE STREETS EXCEPT GORMAN. 24" MAIN INSTALLED IN PHASE I IS ACTIVE FROM APPROXIMATE STA 1+05 TO APPROXIMATE STA 20+60 (VALVE CLOSED AT STA 20+60). THIS PROJECT SHALL COMPLETE SURFACE RESTORATION FOR PHASE I AS SHOWN IN RESTORATION SHEETS 16-21.
- REPAIR TRENCH ON PIPELINE INSTALLED IN PHASE I PER DETAILS SHOWN IN THE PLANS AND LIMITS ON SHEETS 16-20.
  - COORDINATE WITH SAWS TO SHUT DOWN EXISTING 24" MAIN AND 6" MAIN BETWEEN BURNET AND HAYS.
  - BEGIN TRENCHLESS CROSSING AT ARROYO LARGO AS SHOWN IN THE PLANS ON SHEET 11.
  - INSTALL 24" MAIN FROM STATION 25+60 TO END.
  - PERFORM HYDROSTATIC TEST. COORDINATE WITH SAWS FOR MACHINE CHLORINATION AND PERFORM BACTERIOLOGICAL TESTS. MAKE TIE-INS TO EXISTING MAIN AT BELMONT, ONSLOW, HAYS, AND PHASE I MAIN AT APPROX STA 25+60.
  - AFTER NEW 24" MAIN IS IN SERVICE, COMPLETE TIE-INS AT GORMAN AS SHOWN IN THE PLANS. REMOVE TEMPORARY MAINS.
  - GROUT EXISTING 24" MAIN TO BE ABANDONED.
  - COMPLETE FINAL PAVING AND SURFACE RESTORATION.

**TEMPORARY WATER MAIN:**

- A TEMPORARY WATER MAIN WAS INSTALLED IN PHASE I AT THE INTERSECTION OF N. MEL WAITERS WAY AND GORMAN ST.
- TEMPORARY MAIN SHALL BE REMOVED ONCE NEW 24" MAIN IS PLACED INTO SERVICE. DISTURBED AREAS AND PAVEMENT SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION.

**PIPE NOTES:**

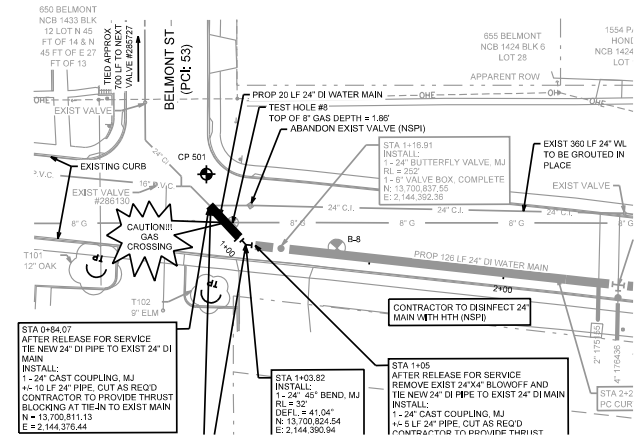
- THIS PROJECT USES DUCTILE IRON PIPE (DI). DI PIPE SHALL BE PRESSURE CLASS 200. MINIMUM ALLOWABLE RADIUS OF CURVATURE SHALL BE 720 FEET (1.35° OR 6.7" OFFSET PER 20' JOINT). DI PIPE SHALL HAVE ZINC COATING FOR CORROSION PROTECTION. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
- COORDINATE WITH SAWS INSPECTOR FOR SERVICE CENTER LOCATION TO DELIVER SALVAGED FITTINGS AND FIRE HYDRANTS UPON COMPLETION OF PROJECT.
- FLOWABLE FILL SHALL BE LOW STRENGTH (80 PSI TO 150 PSI AT 28 DAYS).
- AIR VALVES TO BE ABANDONED SHALL BE MADE INOPERABLE BY BENDING OR DEFORMING THE SERVICE LINE ONCE THE AIR VALVE IS REMOVED.

**SEWER BYPASS PUMPING:**

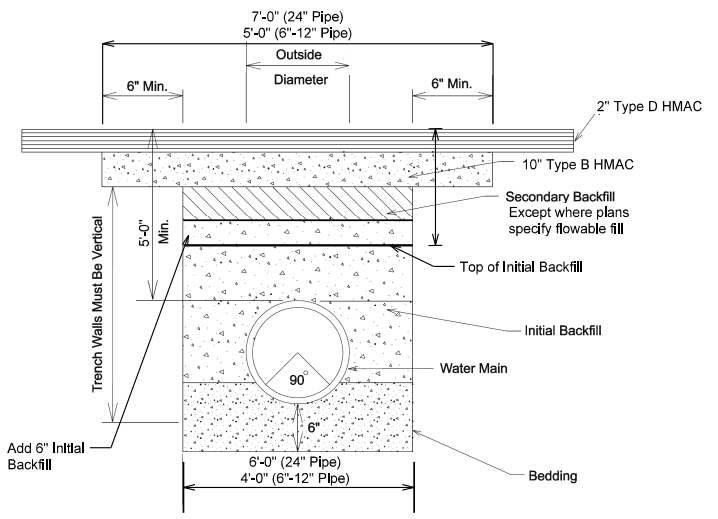
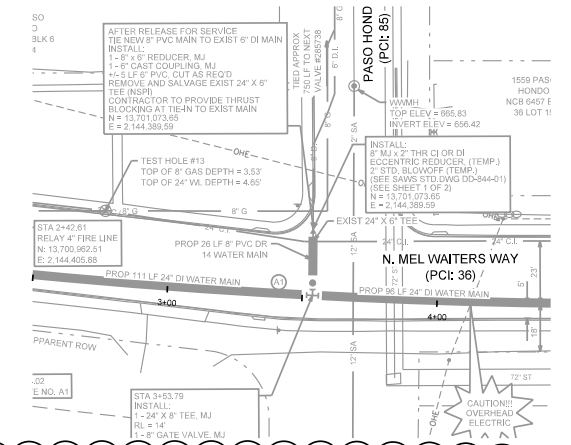
- PORTIONS OF THIS PROJECT REQUIRE REPLACEMENT OF THE EXISTING SANITARY SEWER PIPE WITH PRESSURE RATED PVC SEWER PIPE TO MEET TCEQ REQUIREMENTS FOR SEPARATION DISTANCE. BYPASS PUMPING OR PUMP AND HAUL FOR ALL LOCATIONS SHALL BE PAID PER EACH LOCATION WHERE BYPASS PUMPING OR PUMP AND HAUL IS UTILIZED UNDER BID ITEM 864-S1 "BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS)".

- NOTE:**
- CONTRACTOR TO EXCAVATE EXISTING WATER MAIN TRENCH TO TOP OF INITIAL BACKFILL OR TO TOP OF EXISTING FLOWABLE BACKFILL (IF APPLICABLE). PLACE 6" ADDITIONAL INITIAL BACKFILL AND REPLACE AND RECOMPACT TRENCH. COMPACT MATERIAL AND PERFORM DENSITY TEST PER ITEM 804.

**PHASE II IMPROVEMENTS TO BE INSTALLED UNDER THIS CONTRACT**  
 N.T.S.



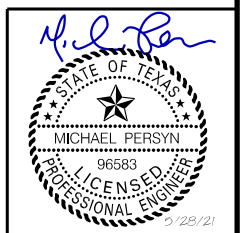
**PHASE I IMPROVEMENTS CONSTRUCTED BY OTHERS (SAWS JOB NO. 16-4011)**  
 N.T.S.



**TRENCH REPAIR (FULL DEPTH) DETAIL**  
 N.T.S.

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No.	Revision	Drawn	Approved	Date
ADDENDUM NO. 2	RBG	MP		5/28/2021

**REVISIONS**

**N. MEL WAITERS WAY 24-INCH WATER MAIN REPLACEMENT - PHASE II SUMMARY OF QUANTITIES AND GENERAL DETAILS**

**DEVELOPER:** \_\_\_\_\_

**CONT.** BUDGET PROJ.

**SUBMITTED** \_\_\_\_\_

**APPROVED** \_\_\_\_\_

**MAP No.** \_\_\_\_\_ **SHEET** 3

**SECT. No.** \_\_\_\_\_ **Of** 30

**DR.** \_\_\_\_\_ **CK.** \_\_\_\_\_ **JOB No.** 21-4001




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ESTIMATED QUANTITIES		UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB - PHASE I	LF	100
103.1	REMOVE CONCRETE CURB - PHASE II	LF	72
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE I	SF	216
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE II	SF	387
203	TACK COAT - PHASE I	GAL	86.4
203	TACK COAT - PHASE II	GAL	88.9
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE I	SY	11
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE II	SY	613
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (5" COMPACTED DEPTH) - PHASE II	SY	43
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE I	SY	864
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE II	SY	889
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE I	SY	864
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE II	SY	889
500.1	CONCRETE CURB - PHASE I	LF	100
500.1	CONCRETE CURB - PHASE II	LF	72
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE I	SY	24
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE II	SY	43
SP511.2	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FULL DEPTH)	SY	537
515	TOP SOIL (3") - PHASE I	CY	0.2

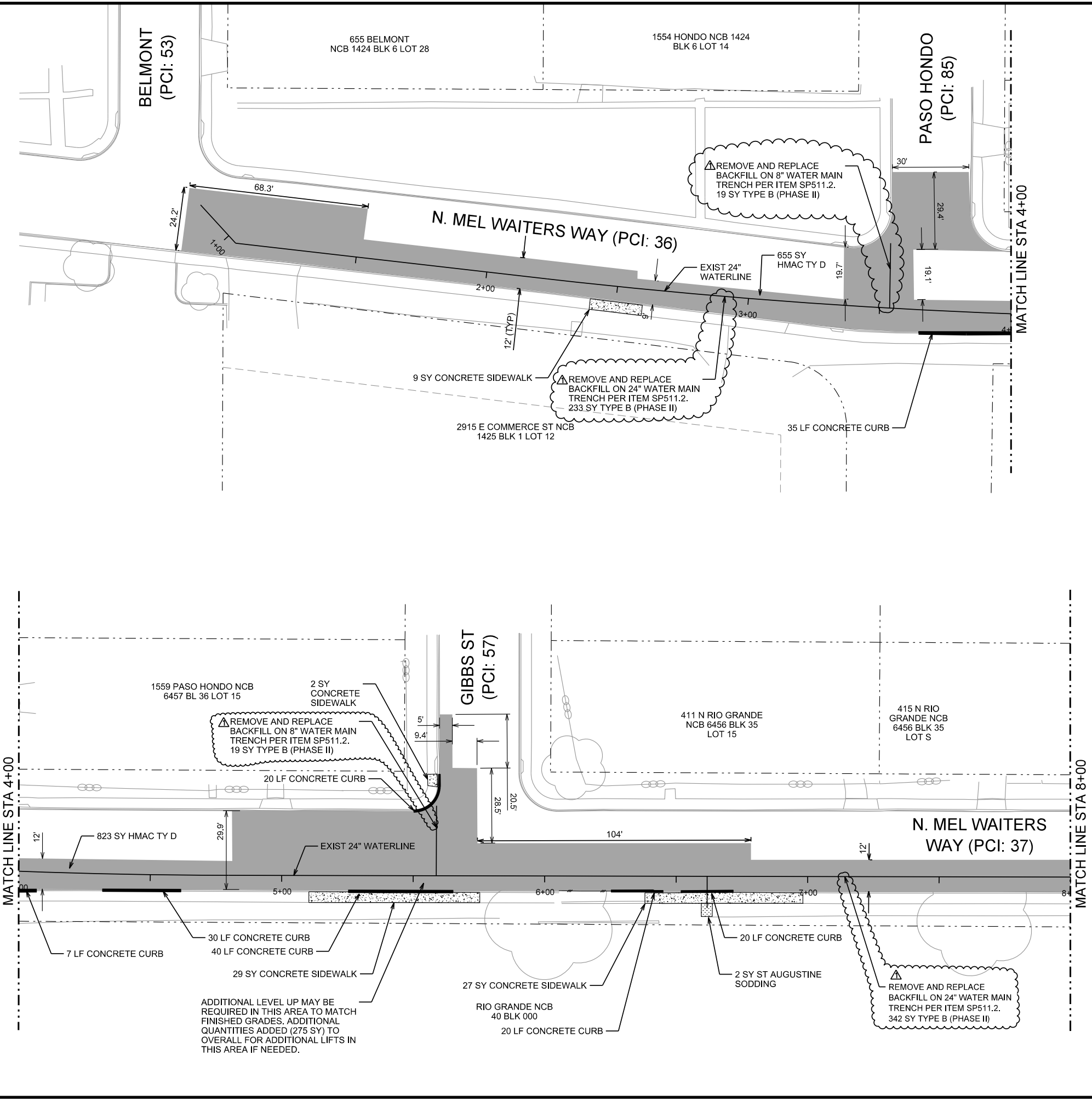
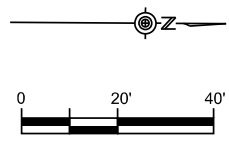
NOTES:

- PAVEMENT REPAIRS SHALL BE ACCORDING TO THE CITY OF SAN ANTONIO UTILITY EXCAVATION CRITERIA MANUAL (COSA UECM).
- SEE PLAN CALLOUT THIS SHEET FOR ADDITIONAL 275 SY TYPE D LEVEL UP REQUIRED NEAR INTERSECTION OF GIBBS STREET AND N. MEL WAITERS WAY.

LEGEND

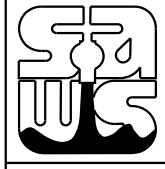
-  EXISTING PAVEMENT
-  PROPOSED LIMIT OF HMAC TYPE D RESTORATION
-  PROPOSED LIMITS OF CURB REPLACEMENT

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ADDENDUM NO. 2	RBG	MP	5/28/2021
No.	Revision	Drawn	Approved

**REVISIONS**

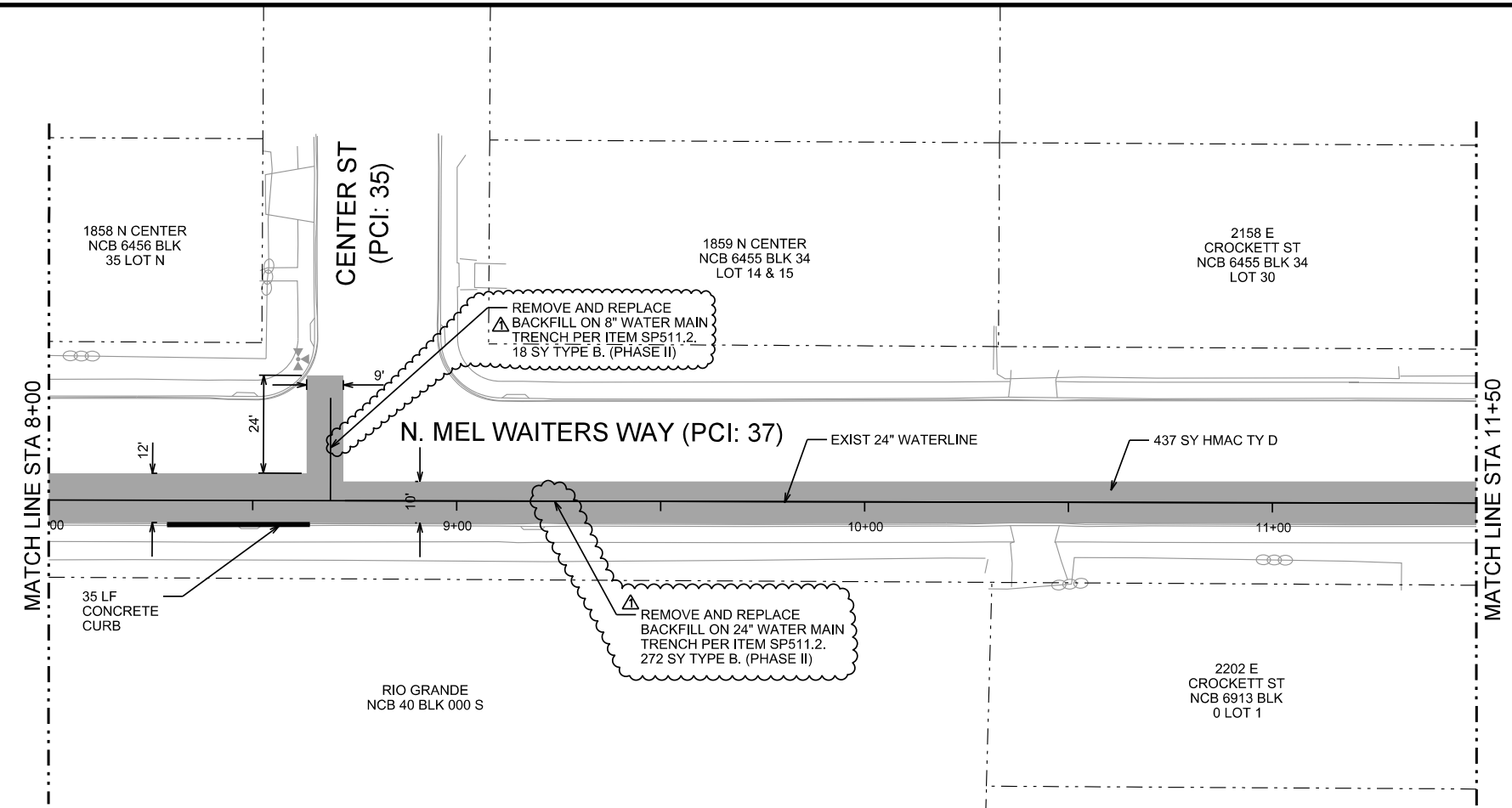
 N. MEL WAITERS WAY  
 24-INCH WATER MAIN  
 REPLACEMENT - PHASE II  
 RESTORATION PLAN  
 BEGIN TO STA 8+00

DEVELOPER: \_\_\_\_\_  
 CONT. BUDGET PROJ. \_\_\_\_\_  
 SUBMITTED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

MAP No.	SHEET
SECT. No.	16
DR. CK.	JOB No. 21-4001 OF 30

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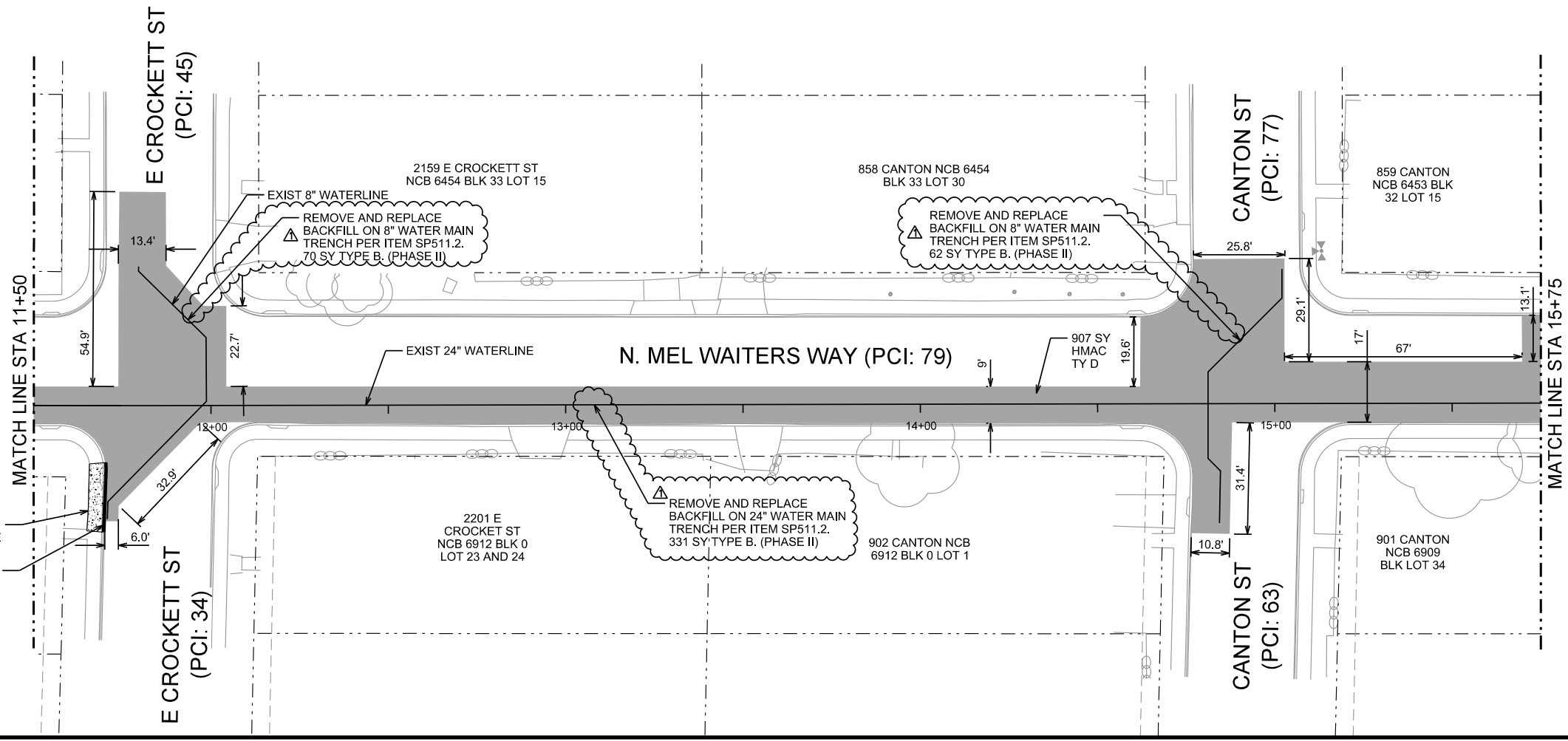
ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB - PHASE I	LF	20
103.1	REMOVE CONCRETE CURB - PHASE II	LF	55
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE I	SF	19
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE II	SF	71
203	TACK COAT - PHASE I	GAL	87.7
203	TACK COAT - PHASE II	GAL	46.7
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE II	SY	753
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (5" COMPACTED DEPTH) - PHASE II	SY	21
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE I	SY	877
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE II	SY	467
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE I	SY	877
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE II	SY	467
500.1	CONCRETE CURB - PHASE I	LF	20
500.1	CONCRETE CURB - PHASE II	LF	55
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE I	SY	2
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE II	SY	8
SP511.2	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FULL DEPTH)	SY	637

NOTES:

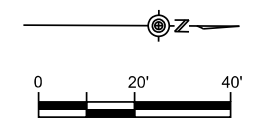
- PAVEMENT REPAIRS SHALL BE ACCORDING TO THE CITY OF SAN ANTONIO UTILITY EXCAVATION CRITERIA MANUAL (COSA UECM).

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED LIMIT OF HMAC TYPE D RESTORATION
- PROPOSED LIMITS OF CURB REPLACEMENT



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*Michael Persyn*  
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 MICHAEL PERSYN  
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 5/28/21

ADDENDUM NO. 2	RBG	MP	5/28/2021
No.	Revision	Drawn	Approved Date

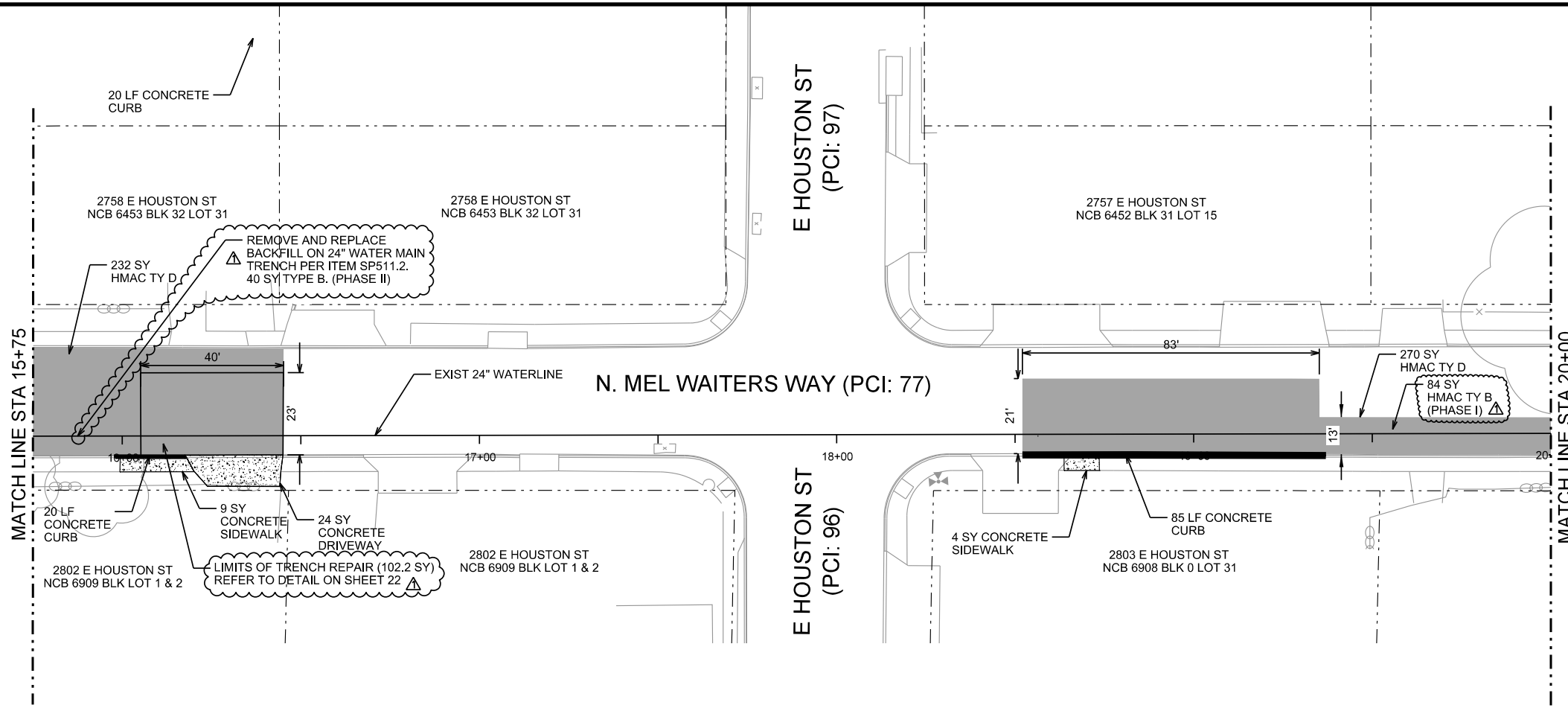
**REVISIONS**

**N. MEL WAITERS WAY 24-INCH WATER MAIN RESTORATION PLAN STA 8+00 TO STA 15+75**

DEVELOPER: \_\_\_\_\_  
 CONT. BUDGET PROJ.  
 SUBMITTED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

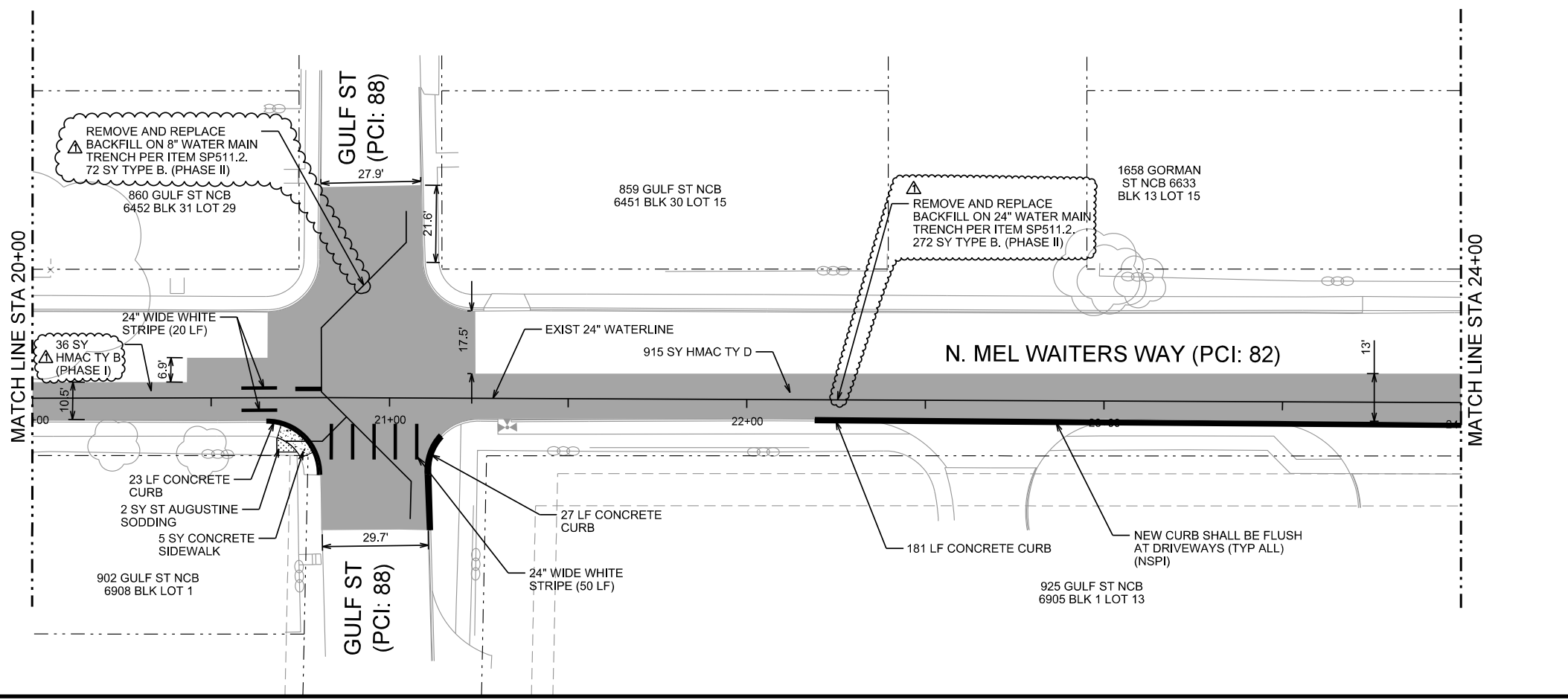
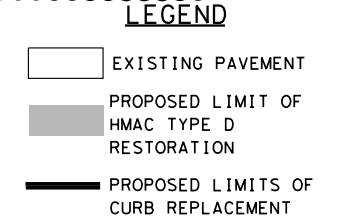
MAP No. \_\_\_\_\_ SHEET 17  
 SECT. No. \_\_\_\_\_ OF 30  
 DR. CK. JOB No. 21-4001

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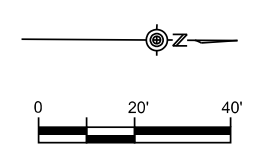


ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB - PHASE I	LF	80
103.1	REMOVE CONCRETE CURB - PHASE II	LF	256
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE I	SF	375
203	TACK COAT - PHASE I	GAL	71.8
203	TACK COAT - PHASE II	GAL	74.8
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE I	SY	120
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE II	SY	384
206.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (5" COMPACTED DEPTH) - PHASE II	SY	94
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE I	SY	71.8
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE II	SY	74.8
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE I	SY	71.8
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE II	SY	74.8
413	FLOWABLE FILL	CY	68.5
500.1	CONCRETE CURB - PHASE I	LF	80
500.1	CONCRETE CURB - PHASE II	LF	256
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE I	SY	1.8
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY - PHASE II	SY	24
SP511	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - PHASE II)	SY	102.2
SP511.2	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FULL DEPTH)	SY	442
515	TOP SOIL (3") - PHASE I	CY	0.2
516.2	ST. AUGUSTINE SODDING - PHASE I	SY	2
535	24" WIDE WHITE LINE - PHASE I	LF	70
535	12" WIDE BLACK LINE - PHASE II	LF	140

NOTES:  
 1. PAVEMENT REPAIRS SHALL BE ACCORDING TO THE CITY OF SAN ANTONIO UTILITY EXCAVATION CRITERIA MANUAL (COSA UECM).



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 10001 REUNION PLACE SUITE 404  
 SAN ANTONIO, TEXAS 78216  
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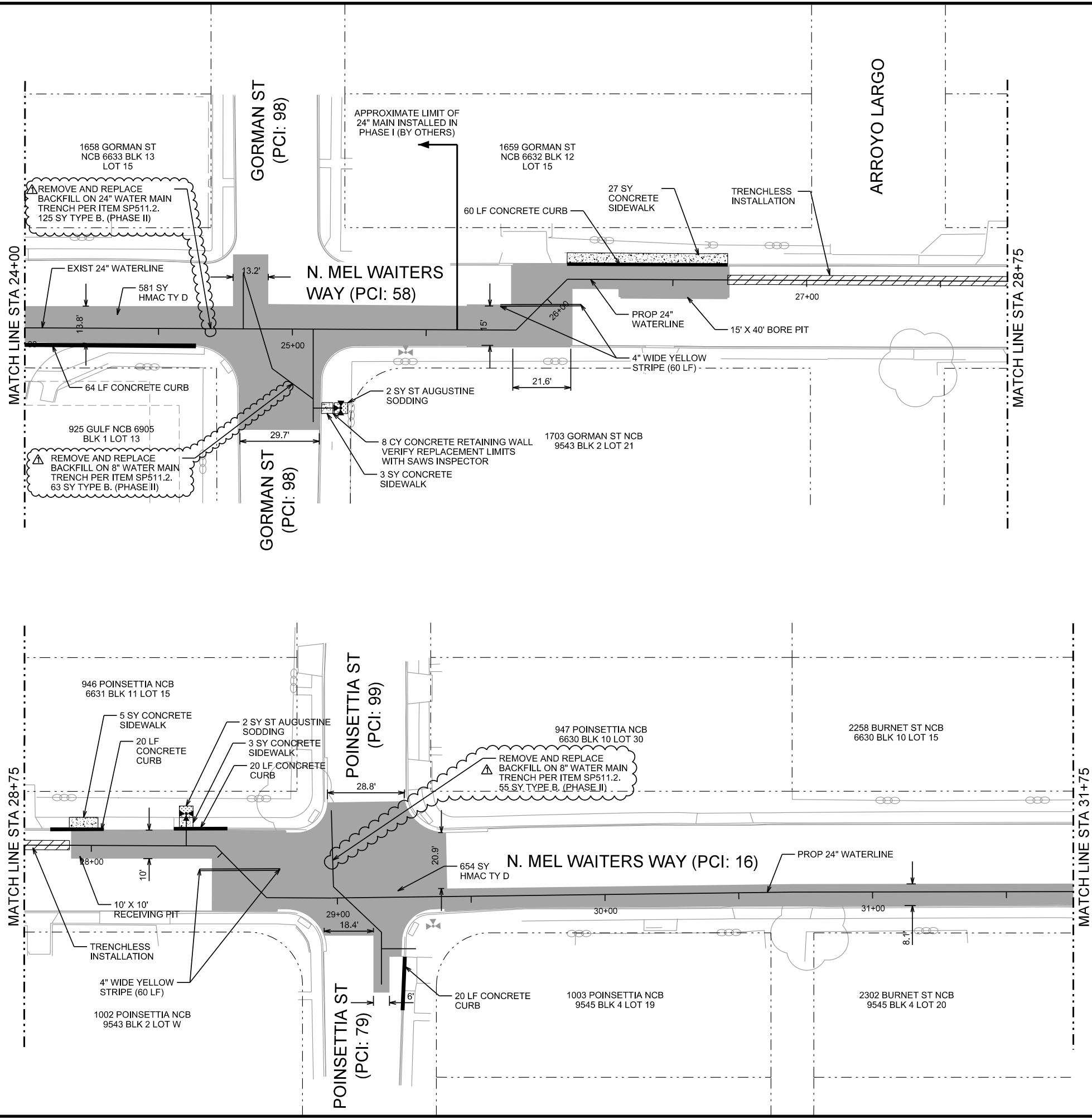


*Michael Persyn*  
 STATE OF TEXAS  
 MICHAEL PERSYN  
 96583  
 LICENSED PROFESSIONAL ENGINEER  
 5/28/21

ADDENDUM NO. 2	RBG	MP	5/28/2021
No.	Revision	Drawn	Approved

**REVISIONS**  
 N. MEL WAITERS WAY  
 24-INCH WATER MAIN  
 REPLACEMENT - PHASE II  
 RESTORATION PLAN  
 STA 15+75 TO STA 24+00

DEVELOPER: \_\_\_\_\_  
 CONT. BUDGET PROJ.  
 SUBMITTED \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 MAP No. \_\_\_\_\_ SHEET 18  
 SECT. No. \_\_\_\_\_ OF 30  
 DR. CK. JOB No. 21-4001



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB - PHASE I	LF	140
103.1	REMOVE CONCRETE CURB - PHASE II	LF	44
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE I	SF	313
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE II	SF	1.8
203	TACK COAT - PHASE I	GAL	85.2
203	TACK COAT - PHASE II	GAL	37.3
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE I	SY	361
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE II	SY	243
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (5" COMPACTED DEPTH) - PHASE II	SY	51
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE I	SY	862
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE II	SY	373
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE I	SY	862
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE II	SY	373
500.1	CONCRETE CURB - PHASE I	LF	140
500.1	CONCRETE CURB - PHASE II	LF	44
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE I	SY	35
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE II	SY	2
506.1	CONCRETE RETAINING WALLS - COMBINATION TYPE - PHASE I	CY	8
SP511.2	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FULL DEPTH)	SY	185
515	TOP SOIL (3") - PHASE I	CY	0.3
516.2	ST. AUGUSTINE SODDING - PHASE I	SY	4
535	4" WIDE WHITE YELLOW LINE - PHASE I	LF	120

NOTES:

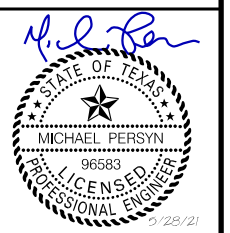
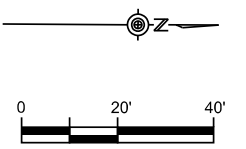
- PAVEMENT REPAIRS SHALL BE ACCORDING TO THE CITY OF SAN ANTONIO UTILITY EXCAVATION CRITERIA MANUAL (COSA UECM).

LEGEND

- EXISTING PAVEMENT
- PROPOSED LIMIT OF HMAC TYPE D RESTORATION
- PROPOSED LIMITS OF CURB REPLACEMENT

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TBPE Firm #6535 www.kfriese.com



No.	Revision	Drawn	Approved	Date
ADDENDUM NO. 2	RBG	MP		5/28/2021

**REVISIONS**

**STA**

**N. MEL WAITERS WAY  
24-INCH WATER MAIN  
REPLACEMENT - PHASE II  
RESTORATION PLAN  
STA 24+00 TO STA 31+75**

DEVELOPER: \_\_\_\_\_

CONT. BUDGET PROJ.

SUBMITTED \_\_\_\_\_

APPROVED \_\_\_\_\_

MAP No. \_\_\_\_\_ SHEET 19

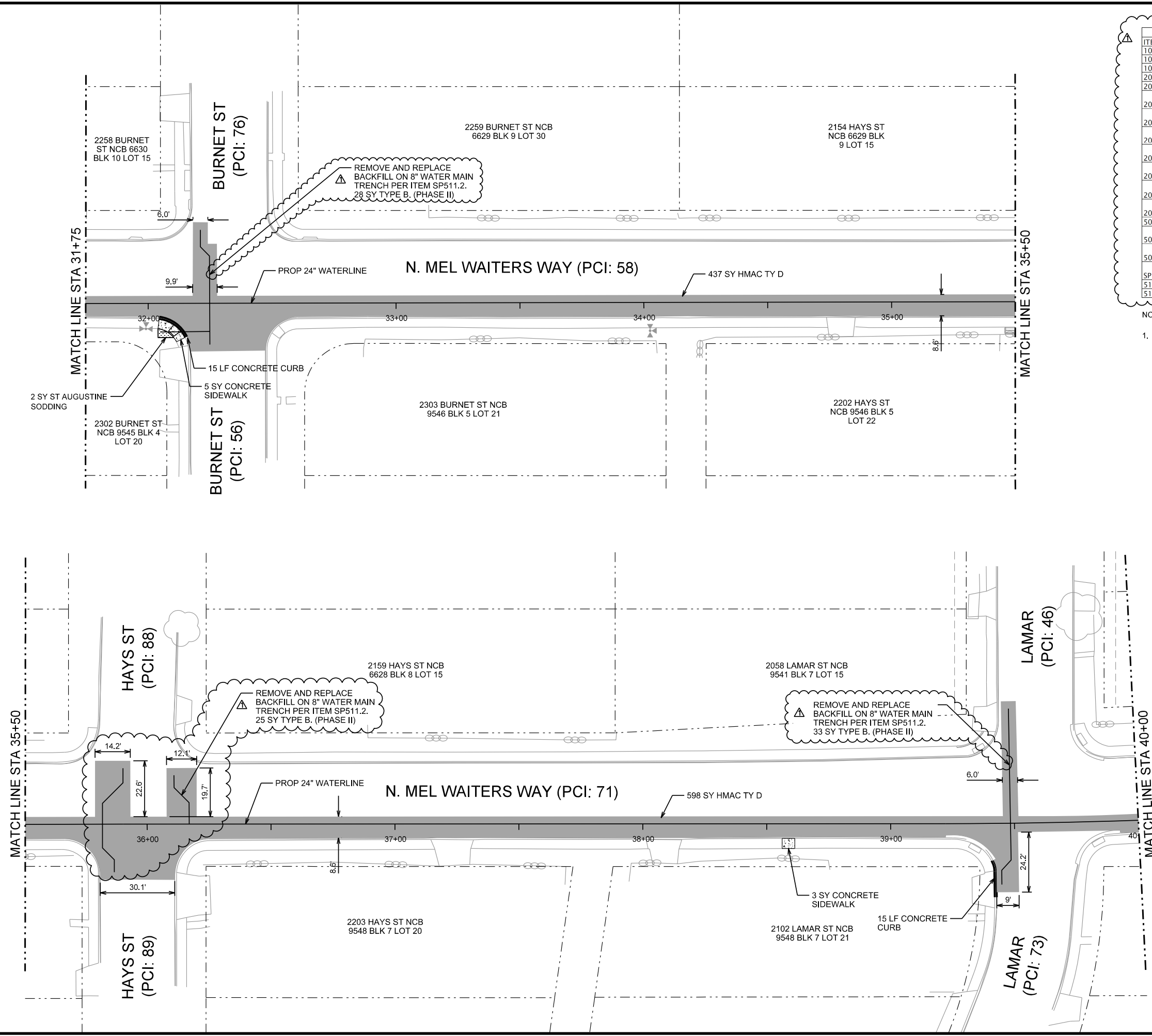
SECT. No. \_\_\_\_\_

DR. \_\_\_\_\_ CK. \_\_\_\_\_ JOB No. 21-4001 OF 30

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ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB - PHASE I	LF	30
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE I	SF	45
103.3	REMOVE SIDEWALKS AND DRIVEWAYS - PHASE II	SF	27
203	TACK COAT - PHASE I	GAL	99
203	TACK COAT - PHASE II	GAL	5
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE I	SY	459
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (10" COMPACTED DEPTH) - PHASE II	SY	104
205.2	HOT MIX ASPHALTIC PAVEMENT TYPE B (5" COMPACTED DEPTH) - PHASE II	SY	8
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE I	SY	985
205.4	HOT MIX ASPHALTIC PAVEMENT TYPE D (2" COMPACTED DEPTH) - PHASE II	SY	50
208.1	SALVAGING, HAULING, AND STOCKPIILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE I	SY	985
208.1	SALVAGING, HAULING, AND STOCKPIILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) - PHASE II	SY	50
500.1	CONCRETE CURB - PHASE I	LF	30
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE I	SY	5
502.1	CONCRETE SIDEWALKS - CONVENTIONALLY FORMED - PHASE II	SY	3
502.1	CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR - FULL DEPTH)	SY	86
515	TOP SOIL (3") - PHASE I	CY	0.2
516.2	ST. AUGUSTINE SODDING - PHASE I	SY	2

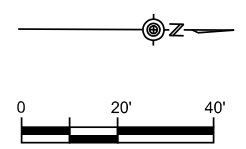
NOTES:  
 1. PAVEMENT REPAIRS SHALL BE ACCORDING TO THE CITY OF SAN ANTONIO UTILITY EXCAVATION CRITERIA MANUAL (COSA UECM).

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED LIMIT OF HMAC TYPE D RESTORATION
- PROPOSED LIMITS OF CURB REPLACEMENT

**K FRIESE + ASSOCIATES**  
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 TBPE Firm #6535 www.kfriese.com



*Michael Persyn*  
 STATE OF TEXAS  
 MICHAEL PERSYN  
 96583  
 LICENSED PROFESSIONAL ENGINEER  
 5/28/21

No.	Revision	Drawn	Approved	Date
ADDENDUM NO. 2	RBG	MP		5/28/2021

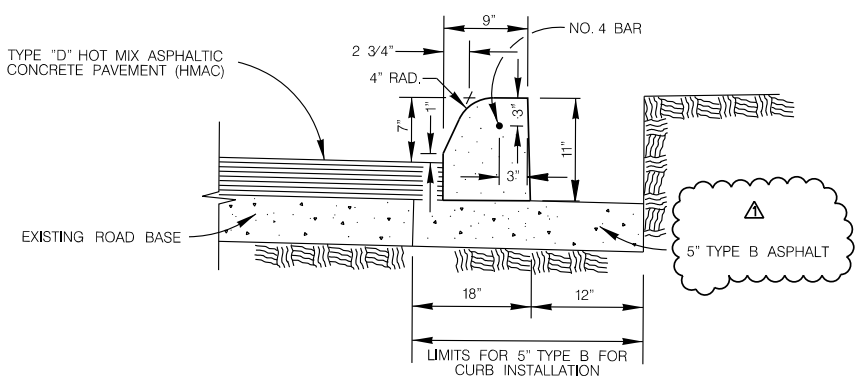
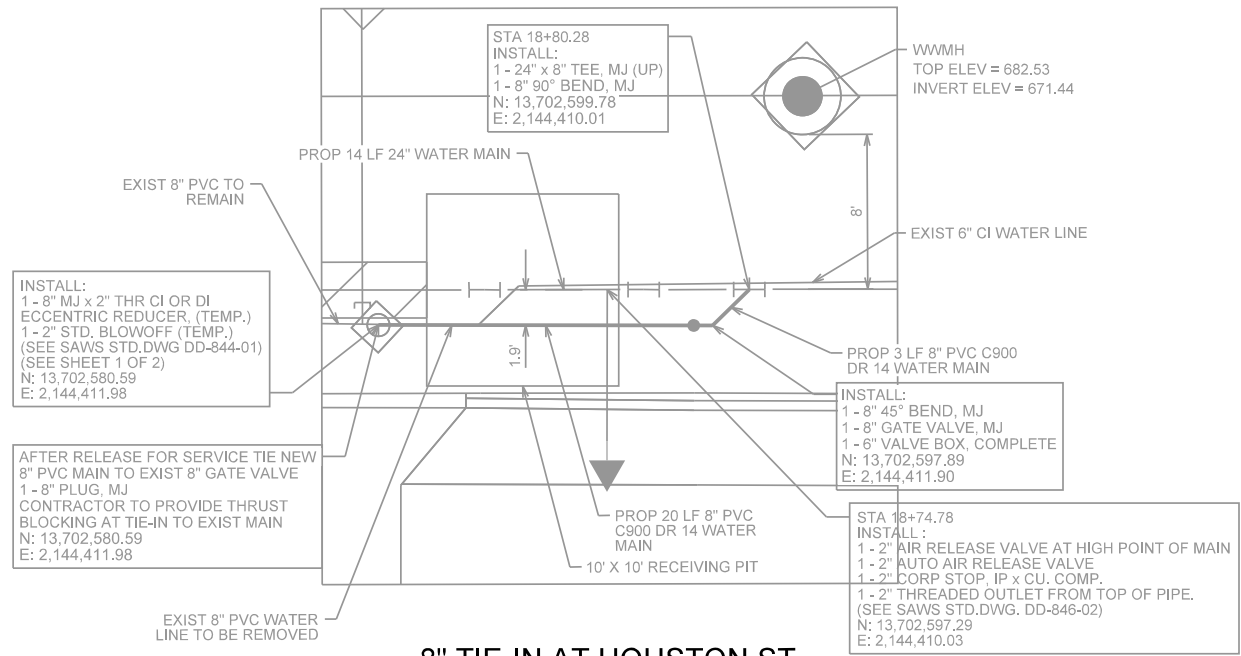
**REVISIONS**

**SA** **US**

**N. MEL WAITERS WAY  
 24-INCH WATER MAIN  
 REPLACEMENT - PHASE II  
 RESTORATION PLAN  
 STA 31+75 TO STA 40+00**

DEVELOPER: \_\_\_\_\_  
 CONT. BUDGET PROJ. \_\_\_\_\_  
 SUBMITTED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

MAP No. \_\_\_\_\_ SHEET 20  
 SECT. No. \_\_\_\_\_ OF 30  
 DR. CK. JOB No. 21-4001



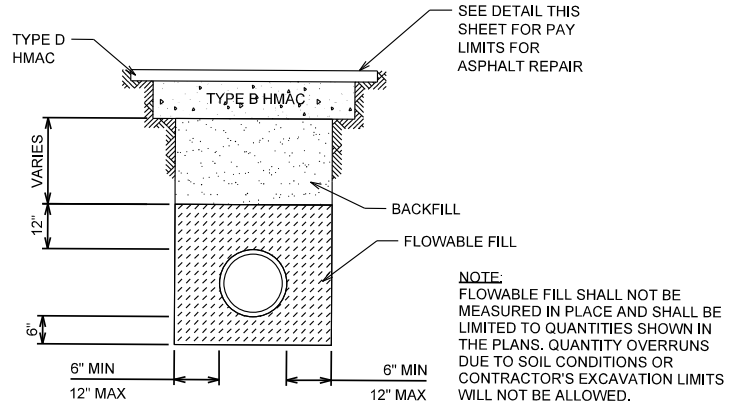
SAWS STANDARD DETAIL INCORPORATED BY REFERENCE:

804	EXCAVATION, TRENCHING AND BACKFILL	DD-804-01, 02
828	GATE VALVES	DD-828-01
844	BLOW-OFF ASSEMBLIES	DD-844-01
846	2" AIR RELEASE ASSEMBLIES	DD-846-02

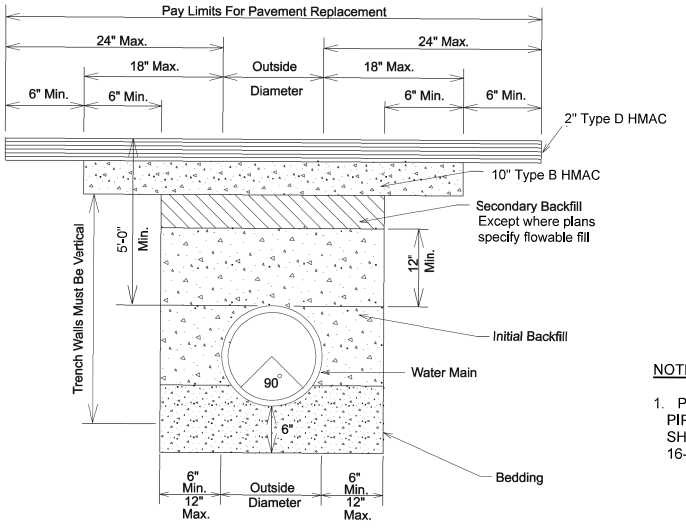
COSA STANDARD DETAILS INCORPORATED BY REFERENCE:

205	HOT MIX ASPHALTIC CONCRETE PAVEMENT
500	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER
502	CONCRETE SIDEWALKS
503	PORTLAND CEMENT CONCRETE DRIVEWAYS
530	BARRICADES, SIGNS, AND TRAFFIC HANDLING

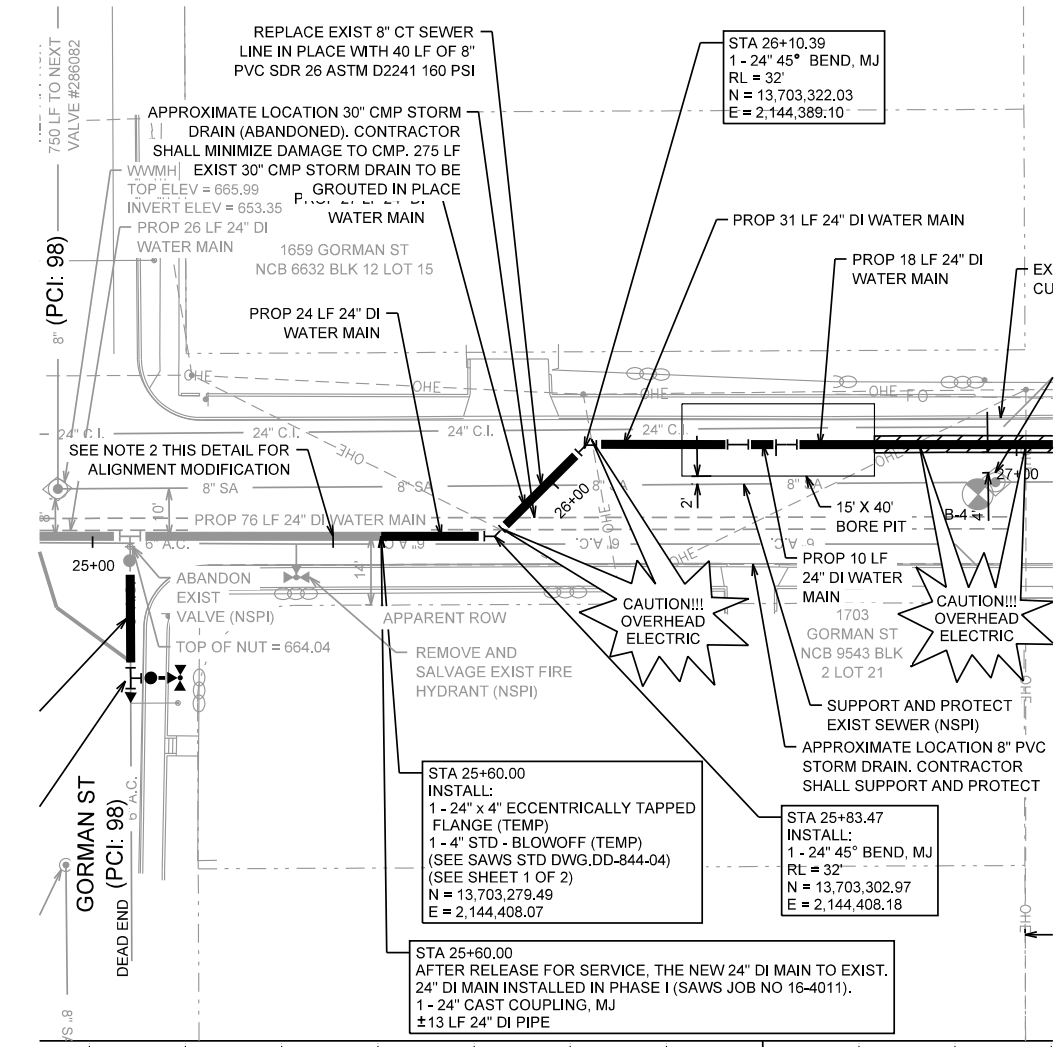
**CONCRETE CURB**  
ITEM 500 ON ASPHALT TREATED BASE OR ASPHALTIC CONCRETE BASE  
SCALE: N.T.S.



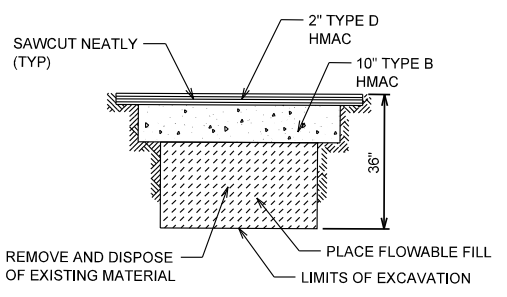
**FLOWABLE FILL ENCASEMENT DETAIL**



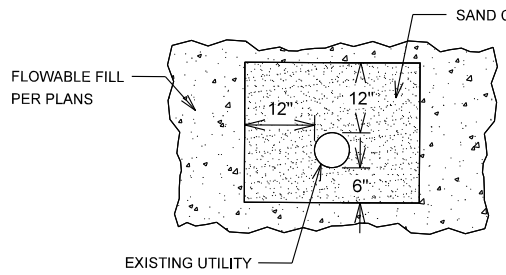
**WATER MAIN INSTALLATION DETAIL**  
N.T.S.



**TRENCH REPAIR (FLOWABLE FILL) (APPROX STA 16+00)**  
N.T.S.



**UTILITY CROSSING - SAND CUSHION**  
N.T.S.



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No.	Revision	Drawn	Approved	Date
ADDENDUM NO. 2	RBG	MP		5/28/2021

**REVISIONS**

**N. MEL WAITERS WAY 24-INCH WATER MAIN REPLACEMENT - PHASE II GENERAL DETAILS**

DEVELOPER:		BUDGET PROJ.	
SUBMITTED:		APPROVED:	
MAP No.	SECT. No.	JOB No. 21-4001	SHEET 22 OF 30
DR.	CK.		

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