



**WHISPERING WINDS DR. AND DUNES AVE.
FROM MOGFORD TO RIPTIDE
Solicitation Number: CO-00192
Job No.: 17-7004**

**ADDENDUM 1
July 6, 2018**

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.

RESPONSES TO QUESTIONS

1. **Question:** Is there a Geotech available for review?

Response: A Geotech was not performed on this project and therefore one is not available for review.

2. **Question:** On Sheet 35, regarding the mailbox detail. Please identify which detail is applicable for the 47 EA items to be installed, singular, communal, etc...

Response: The intent is to replace the majority of existing mailboxes with single mailbox mount. There is one (1) exception located on the northwest corner of the intersection between Dunes Ave and Hume Road where there are seven (7) existing mailboxes in a row. These will be replaced with 3-double mailbox mount and 1-single mailbox mount (plans have been updated to reflect this change).

3. **Question:** Sheet 33 – concerning the profile detail of the water pipe, SAND is acceptable as the primary backfill of the water main, correct?

Response: Typical Pavement Details are a reflection of Bexar County Public Works trench minimum requirements which state Sand, Gravel Subgrade Filler, or Pea Gravel for the fill around the water main and services to a minimum of 6" above casing/pipe. Sand is acceptable for the primary backfill.

4. **Question:** Is there a detail or can you provide clarity for what a dielectric union is at the meter box?

Response: Dielectric union is a special coupling that acts as an electrical barrier between two (2) metals to prevent corrosion and/or pipe failure. Refer to SAWS Specification Item No. 824 for placement location.

5. **Question:** Clarify qualification request A-2. Demonstrate construction of a minimum of 10,000 LF of 8" or larger water main- is this on a singular project?

Response: A single project is preferred; however, providing two (2) separate projects totaling of 10,000 LF of water main installation and boring services is acceptable.

6. **Question:** Same question as Question # 5 above, but for A-1 & A-4.

Response: A single project is preferred; however, providing two (2) separate projects totaling of 10,000 LF of water main installation and boring services is acceptable.

7. **Question:** Concerning qualifications for A-2; concerning the 10,000 LF of water main/ the bored water services, & rehabilitation of roadway via seal coat; are all of these qualification standards required to have been done on a single project or multiple projects combined for each qualification?

Response: The intent is to provide experience in each of the construction tasks listed above. A single project is preferred; however, providing two (2) separate projects totaling of 10,000 LF of water main installation and boring services and an additional project with seal coating for roadway rehabilitation.

8. **Question:** Regarding qualifications for A-2; the majority of projects approaching 2 miles of water main will be located in an easement or parkway. There are few if any singular projects that have bid in the past ten years that contain all criteria A-2 is requesting? If the intent of the qualification request is to verify the construction of bored services, main installation and seal coating, please revise to allow multiple projects addressing these items.

Response: The main intent to provide experience in each of the construction tasks listed above. A single project is preferred; however, providing two (2) separate projects totaling of 10,000 LF of water main installation and boring services and an additional project with seal coating for roadway rehabilitation.

9. **Question:** Concerning A-2; will street reconstruction or asphalt mill and overlay be considered as substitutions for seal coating as they show similar scope of work; or can a separate project that is solely seal coat be applicable?

Response: Bexar County requires seal coat for the roadway rehabilitation. A separate project providing seal coat application is acceptable.

10. **Question:** Regarding qualifications for A-2; for projects that exceed 10,000 LF of main, can 6" and 8" bore crossing of a substantial quantity, 75+ Bores; be acceptable as a qualification variance for bored services. The majority of projects that require bored services that we have seen bid in the past ten years have not contained 10,000 LF.

Response: The intent is to provide experience on water projects with similar water main sizes along with boring water services. A single project is preferred; however, providing two (2) separate projects totaling of 10,000 LF of water main installation and boring services is acceptable.

11. **Question:** The terminology (fully Restrained) for the proposed 8" water line is the intent to follow SAWS specification for restraining bends, valves and fitting; or is the intent for each bell and spigot connection for the entire length of main installed to be restrained?

Response: The intent is to restrain each bell and spigot connection for the entire length of main installed due to the poor soil condition.

12. **Question:** Sheet 33 refers to compacted material as secondary backfill or quickest flash fill- is there a specification for this material available?

Response: Design plans have been updated to remove quickest flash fill as an alternative method and specification, measurement, and payment will no longer be required.

13. **Question:** When would quickest flash fill be utilized? Is this a line item payable by SAWS?

Response: The intent of the design is to utilize suitable backfill to achieve 95% standard proctor densities. Coordination with SAWS/Engineer is required if densities cannot be obtained and other methodologies are required.

14. **Question:** SAWS specification standard for 8" water main is 4' of cover, is this project's intent to override the general specification and maintain 5' of cover for the entire project?

Response: SAWS specification Item No. 812.4.5 Pipe Grade states water mains 16" or smaller shall have a minimum of 48 inches of cover from the proposed finished ground/street/elevation and 60 inches of cover when the main is installed in an unpaved area or under the pavement where there are no existing/proposed curb or existing drainage facilities, refer to SAWS Specification Item No. 812 Water Main Installation for further information.

15. **Question:** Sheet 27 shows a Bore of 39ft. Is it possible to change to open cut remove and replace storm pipe (NSPI). This will be less expensive for the project.

Response: Open cut is acceptable for removal and replacement of storm pipe at no separate pay item (NSPI). However, in the event the storm drain is damaged, it will be the contractor's responsibility to replace at Contractor's expense.

16. **Question:** Concerning A-2; Is the intent for this project contain 10,000 LF of water main by bore methodology only or 10,000 LF of water main by both open cut and bore methodology?

Response: The intent is to show experience in open cut for 10,000 LF of water main and bore methodology for the water services.

CHANGES TO THE SPECIFICATIONS

1. The first paragraph to the Invitation to Bidders form has been revised to state the following:
Sealed bids are requested by the San Antonio Water System for the construction of approximately 9,910 linear feet of 8-inch water main using open cut construction method to replace 2" – 3" water mains for the Whispering Winds Dr. and Dunes Ave from Mogford to Riptide Project, SAWS Water Job No. 17-7004.
2. Bid Proposal (BP-2 and BP-3) – Remove Bid Proposal BP-2 and BP-3 in their entirety and replace with the attached BP-2 and BP-3. The following items were updated:
CoSA Item No. 8 Spec No. 503.1 Portland Cement Concrete Driveways (<100 SY) was replaced with CoSA Item No. 8 Spec No. 503.1 Portland Cement Concrete Driveways (100 SY < X < 10,000 SY) and quantity was revised.
Added TxDOT Item No. 560 2002 Mailbox Assemblies (Double) and provided quantity.
3. Replace Special Provisions to Technical Specifications (SPTS-1) with the attached Special Provisions to Technical Specifications (SPTS-1). The following items were updated:
Description for B. Special Provision to CoSA Item NO. 516 Topsoil was updated to state the following:
B. Special Provision to CoSA Item NO. 516 Bermuda Sodding
Description for C. Special Provision to CoSA Item NO. 520 Topsoil was updated to state the following:
C. Special Provision to CoSA Item NO. 520 Hydromulching

CHANGES TO THE PLANS

1. Quantities Sheet 3 of 58 – Replaced sheet dated 06/08/2018 with attached sheet 07/05/2018. Updates to Quantities sheet consists of revised description of CoSA Item No. 503.1 from to Portland Cement Concrete Driveways (<100 SY) to Portland Cement Concrete Driveways (100 SY < X < 10,000 SY), revised quantity of CoSA Item No. 503.1 Portland Cement Concrete Driveways (100 SY < X < 10,000 SY), and added TxDOT Item No. 560 2002 Mailbox Assemblies (Double).
2. Plan Sheet 9 of 58 - Replaced sheet dated 06/08/2018 with attached sheet 07/05/2018. Updates to plan sheet consists of updating description and revising quantity of CoSA Item No. 503.1 Portland Cement Concrete Driveways (100 SY < X < 10,000 SY).
3. Plan Sheet 11 of 58 - Replaced sheet dated 06/08/2018 with attached sheet 07/05/2018. Updates to plan sheet consists of updating description of CoSA Item No. 503.1 Portland Cement Concrete Driveways (100 SY < X < 10,000 SY).
4. Plan Sheet 29 of 58 - Replaced sheet dated 06/08/2018 with attached sheet 07/05/2018. Updates to plan sheet consists of updating plan view callouts of Prop Mailbox Assemblies at Hume Rd, removing callout for Exist Mailbox to Remain, and adding quantity of TxDOT Item No. 560 2002 Mailbox Assemblies (Double).
5. Plan Sheet 33 of 58 – Replaced sheet dated 06/08/2018 with attached sheet 07/05/2018. Updates to plan sheet consists of removing Quickest Flash Fill reference on primary backfill note and adding approval by SAWS & Bexar County on all details.
6. The Project estimate has increased from \$2,632,131.00 to \$2,636,403.00 to reflect quantity adjustments to CoSA Item No. 503.1 Portland Cement Concrete Driveways (100 SY < X < 10,000 SY) and TxDOT Item No. 560 2002 Mailbox Assemblies (Double).

END OF ADDENDUM

This Addendum, including these four (4) pages, is thirteen (13) pages with attachments in its entirety.

Attachments:

Invitation to Bidders IV-1

Bid Proposal Pages BP-2 and BP-3

Special Provisions to Technical Specifications Page SPTS-1

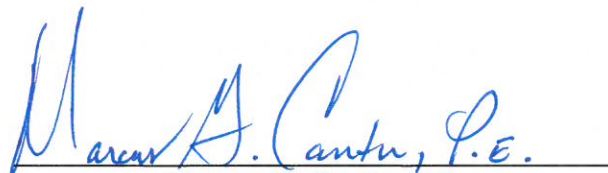
Plan Sheet 3 of 58

Plan Sheet 9 of 58

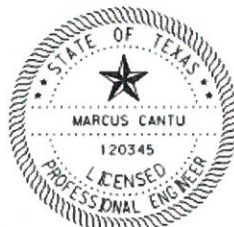
Plan Sheet 11 of 58

Plan Sheet 29 of 58

Plan Sheet 33 of 58



Marcus G. Cantu, P.E.
RPS Infrastructure, Inc.



7/05/2018

INVITATION TO BIDDERS

Solicitation No. CO-00192

Sealed bids are requested by the San Antonio Water System for the construction of approximately 9,910 linear feet of 8-inch water main using open cut construction method to replace existing 2"-3" water mains for the Whispering Winds Dr. and Dunes Ave. from Mogford to Riptide Project, SAWS Water Job No. 17-7004.

To view additional project information, as well as obtain the plans and specifications for this project, visit our website located at www.saws.org and click on the Business Center. Then select Bidder, Consultant, and Vendor Registration, which is located on the left-hand side of the screen. Select the Register Now button and proceed with registration.

For difficulties downloading plans and specifications, contact the Contracting Department at 210-233-3341.

A **mandatory** pre-bid meeting will be held at **10:00 AM (CT) on June 27, 2018** at the San Antonio Water System's **HQ Building, 1st floor, Conference Room CR-C145**, 2800 U.S. Hwy 281 North, Tower II, San Antonio, Texas. Please be advised that under no circumstances shall any late or non-attendee(s) to the Mandatory Pre-Bid Meeting be allowed to submit a bid for the project.

For questions regarding this solicitation, technical questions or additional information, please contact **Janie M. Powell**, Contract Administrator, in writing via email to: Janie.Powell@saws.org or by fax to (210) 233-5351 until **2:00 PM (CT) on June 29, 2018**. Answers to the questions will be posted to the web site by **10:00 AM (CT) on July 06, 2018** as a separate document or included as part of an addendum. Please be advised that Bidders are prohibited from communicating with any other SAWS staff, the Consultant, the Developer, or City of San Antonio officials regarding this IFB up until the contract is awarded as outlined in the Instructions to Bidders.

Sealed bids will be received by Counter Services in the Customer Service office across from the Guard Station, 2800 U.S. Hwy 281 North, Customer Center Building, San Antonio, Texas 78212, **until 10:00 AM (CT), July 13, 2018**. Bids will then be publicly opened and read aloud by Contract Administration in **CR-C169**, Customer Center Building, 2800 U.S. Hwy 281 North, San Antonio, Texas. Each bid must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than five percent of the total bid price.

Item No.	Spec No.	Specification No. & Description	Unit	Qty	Unit Price	Total Price
1	100	MOBILIZATION (MAXIMUM OF 10% OF THE TOTAL OF LINE ITEMS (3-55))	LS	1	\$	\$
2	101	PREPARING RIGHT-OF-WAY (MAXIMUM OF 5% OF THE TOTAL OF LINE ITEMS (3-55))	LS	1	\$	\$
3	200	FLEXIBLE BASE	SY	559	\$	\$
4	205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	SY	5332	\$	\$
5	205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	499	\$	\$
6	206	ASPHALT TREATED BASE (10" COMPACTED DEPTH)	SY	190	\$	\$
7	412	CEMENT STABILIZED SAND	CY	78	\$	\$
8	503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (100 SY < X < 10,000 SY)	SY	131	\$	\$
9	513	REMOVE AND RELOCATE SPECIAL MAIL BOXES	EA	1	\$	\$
10	530	BARRICADES, SIGNS, AND TRAFFIC HANDLING	LS	1	\$	\$
11	540.1	ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 4)	LF	21	\$	\$
12	540.6	CONSTRUCTION EXITS (INSTALL)	CY	78	\$	\$
13	540.6	CONSTRUCTION EXITS (REMOVE)	CY	78	\$	\$
14	540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	8724	\$	\$
15	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	9785	\$	\$
16	801.3	LEVEL IIB PROTECTIVE FENCING	EA	1	\$	\$
17	818	2" WATERLINE, PVC C-900	LF	10	\$	\$
18	818	3" WATERLINE, PVC C-900	LF	25	\$	\$
19	818	4" WATERLINE, PVC C-900	LF	5	\$	\$
20	818	8" WATERLINE, PVC C-900 (FULLY RESTRAINED)	LF	9455	\$	\$
21	822	SHORT YARD PIPING	LF	245	\$	\$
22	822	LONG YARD PIPING	LF	235	\$	\$
23	824	NEW UNMETERED ¾" SHORT SERVICE	EA	12	\$	\$
24	824	NEW UNMETERED ¾" LONG SERVICE	EA	21	\$	\$
25	824	RELAY ¾" SHORT SERVICE	EA	42	\$	\$
26	824	RELAY ¾" LONG SERVICE	EA	34	\$	\$
27	824	RELOCATE ¾" SHORT SERVICE	EA	6	\$	\$

28	824	RELOCATE 3/4" LONG SERVICE	EA	15	\$	\$
29	828	8" GATE VALVES	EA	35	\$	\$
30	828	16" GATE VALVES	EA	1	\$	\$
31	832	8" X 2" TAPPING SLEEVE AND VALVE	EA	1	\$	\$
32	832	16" X 8" TAPPING SLEEVE AND VALVE	EA	1	\$	\$
33	833	EXISTING METER & NEW METER BOX RELOCATION	EA	95	\$	\$
34	833	NEW METER BOX	EA	128	\$	\$
35	834.1	FIRE HYDRANT	EA	21	\$	\$
36	836	PIPE FITTINGS, ALL SIZES AND TYPES	TON	2.67	\$	\$
37	840	2" WATER TIE-INS	EA	3	\$	\$
38	840	3" WATER TIE-INS	EA	7	\$	\$
39	840	4" WATER TIE-INS	EA	1	\$	\$
40	840	8" WATER TIE-INS	EA	1	\$	\$
41	840	16" WATER TIE-INS	EA	1	\$	\$
42	841	HYDROSTATIC TESTING	EA	14	\$	\$
43	844	2" TEMPORARY BLOWOFFS	EA	13	\$	\$
44	844	2" PERMANENT BLOWOFFS	EA	1	\$	\$
45	856	8" CARRIER PIPE	LF	369	\$	\$
46	856	24" STEEL CASING (OPEN CUT)	LF	369	\$	\$
47	856	JACK, BORING, AND TUNNELING (8 INCH)	LF	39	\$	\$
48	1020	2" MAIN BREAK/ LEAK REPAIR	EA	4	\$	\$
49	1020	3" MAIN BREAK/ LEAK REPAIR	EA	7	\$	\$
50	1020	4" MAIN BREAK/ LEAK REPAIR	EA	1	\$	\$
51	1020	8" MAIN BREAK/ LEAK REPAIR	EA	1	\$	\$
52	1020	16" MAIN BREAK/ LEAK REPAIR	EA	1	\$	\$
53	316 6018	ASPH (CHFRS-2P)	GAL	36	\$	\$
54	316 6193	AGGR (TY D GR-5 SAC-B)	CY	118	\$	\$
55	560 2001	MAILBOX ASSEMBLIES (SINGLE)	EA	47	\$	\$
56	560 2002	MAILBOX ASSEMBLIES (DOUBLE)	EA	3	\$	\$

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

Special Provisions to Technical Specifications

A. Special Provision to CoSA Item NO. 515 Topsoil

Under 515.5. Measurement: Add the following sentence at the end of paragraph:

There will be no payment of this item for post construction site restoration. Item shall be incidental to other bid items in the contract and will not be measured separately.

Under 515.6. Payment: Add the following sentence at the end of paragraph:

There will be no payment of this item for post construction site restoration of the access routes and work areas. Item payment shall be incidental to other bid items in the contract and will not be paid for separately.

B. Special Provision to CoSA Item NO. 516 Bermuda Sodding

Under 516.5. Measurement: Add the following sentence at the end of paragraph:

There will be no payment of this item for post construction site restoration. Item shall be incidental to other bid items in the contract and will not be measured separately.

Under 516.6. Payment: Add the following sentence at the end of paragraph:

There will be no payment of this item for post construction site restoration of the access routes and work areas. Item payment shall be incidental to other bid items in the contract and will not be paid for separately.

C. Special Provision to CoSA Item NO. 520 Hydromulching

Under 520.5. Measurement: Add the following sentence at the end of paragraph:

There will be no payment of this item for post construction site restoration. Item shall be incidental to other bid items in the contract and will not be measured separately.

Under 520.6. Payment: Add the following sentence at the end of paragraph:

There will be no payment of this item for post construction site restoration of the access routes and work areas. Item payment shall be incidental to other bid items in the contract and will not be paid for separately.

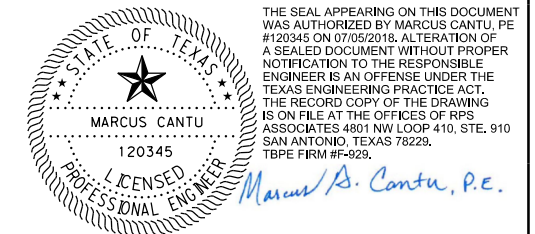
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ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANT.
100	MOBILIZATION (10% MAX OF TOTAL)	LS	1
101	PREPARING RIGHT-OF-WAY (5% MAX OF TOTAL)	LS	1
200	FLEXIBLE BASE	SY	559
205.2*	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	SY	5332
205.3*	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	499
206*	ASPHALT TREATED BASE (10" COMPACTED DEPTH)	SY	190
412*	CEMENT STABILIZED SAND	CY	78
503.1*	PORTLAND CEMENT CONCRETE DRIVEWAYS (100 SY < X < 10,000 SY)	SY	131
513*	REMOVE AND RELOCATE SPECIAL MAIL BOXES	EA	1
530*	BARRICADES, SIGNS, AND TRAFFIC HANDLING	LS	1
540.1*	ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 4)	LF	21
540.6*	CONSTRUCTION EXITS (INSTALL)	CY	78
540.6*	CONSTRUCTION EXITS (REMOVE)	CY	78
540.9*	TEMPORARY SEDIMENT CONTROL FENCE	LF	8724
550*	TRENCH EXCAVATION SAFETY PROTECTION	LF	9785
801.3*	LEVEL IIB PROTECTIVE FENCING	EA	1
818	2" WATERLINE, PVC C-900	LF	10
818	3" WATERLINE, PVC C-900	LF	25
818	4" WATERLINE, PVC C-900	LF	5
818	8" WATERLINE, PVC C-900 (FULLY RESTRAINED)	LF	9455
822	SHORT YARD PIPING	LF	245
822	LONG YARD PIPING	LF	235
824	NEW UNMETERED 3/4" SHORT SERVICE	EA	12
824	NEW UNMETERED 3/4" LONG SERVICE	EA	21
824	RELAY 3/4" SHORT SERVICE	EA	42
824	RELAY 3/4" LONG SERVICE	EA	34
824	RELOCATE 3/4" SHORT SERVICE	EA	6
824	RELOCATE 3/4" LONG SERVICE	EA	15
828	8" GATE VALVES	EA	35
828	16" GATE VALVES	EA	1
832	8" X 2" TAPPING SLEEVE AND VALVE	EA	1
832	16" X 8" TAPPING SLEEVE AND VALVE	EA	1
833	EXISTING METER & NEW METER BOX RELOCATION	EA	95
833	NEW METER BOX	EA	128
834.1	FIRE HYDRANT	EA	21
836	PIPE FITTINGS, ALL SIZES AND TYPES	TON	2.67
840	2" WATER TIE-INS	EA	3
840	3" WATER TIE-INS	EA	7
840	4" WATER TIE-INS	EA	1
840	8" WATER TIE-INS	EA	1
840	16" WATER TIE-INS	EA	1
841	HYDROSTATIC TESTING	EA	14
844	2" TEMPORARY BLOWOFFS	EA	13
844	2" PERMANENT BLOWOFFS	EA	1
856	8" CARRIER PIPE	LF	369
856	24" STEEL CASING (OPEN CUT)	LF	369
856	JACK, BORING, AND TUNNELING (8 INCH)	LF	39
1020	2" MAIN BREAK/LEAK REPAIR	EA	4

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANT.
1020	3" MAIN BREAK/LEAK REPAIR	EA	7
1020	4" MAIN BREAK/LEAK REPAIR	EA	1
1020	8" MAIN BREAK/LEAK REPAIR	EA	1
1020	16" MAIN BREAK/LEAK REPAIR	EA	1
316 6018**	ASPH (CHFRS-2P)	GAL	36
316 6193**	AGGR(TY-D GR-5 SAC-B)	CY	118
560 2001**	MAILBOX ASSEMBLIES (SINGLE)	EA	47
560 2002**	MAILBOX ASSEMBLIES (DOUBLE)	EA	3

* COSA BID ITEMS
** TXDOT BID ITEMS

1 ADDENDUM 1 (07-05-2018) - REVISED DESCRIPTION AND QUANTITY OF COSA ITEM NO. 503.1 PORTLAND CEMENT CONCRETE DRIVEWAYS (100 SY < X < 10,000 SY), AND ADDED TXDOT ITEM NO. 560 2002 MAILBOX ASSEMBLIES (DOUBLE).



NO.	REVISION	DRAWN	APPROVED	DATE
		4801 NW Loop 410, Suite 910 San Antonio, Texas 78229 T 210 736 0425 USInfrastructure@rpsgroup.com Texas PE Firm Reg. #F-929		
		WHISPERING WINDS DR AND DUNES AVE - FROM MOGFORD TO RIPTIDE WATER REPLACEMENT PROJECT		
QUANTITIES				
DEVELOPER:				
CONT.		BUDGET PROJ.		
SUBMITTED _____				
APPROVED _____				
MAP NO. _____				SHEET
SECT. NO. _____				
DR. JRP	CK. MGC	JOB NO. 17-7004		3 OF 58

TRENCH SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND 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 EXCAVATIONS SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR 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.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

RESTRAINED LENGTH NOTE:
RL = RESTRAINED LENGTH

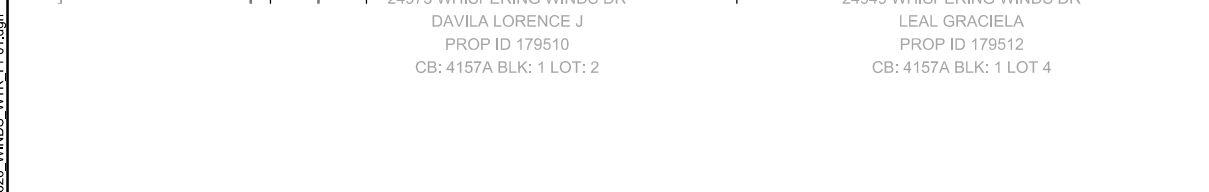
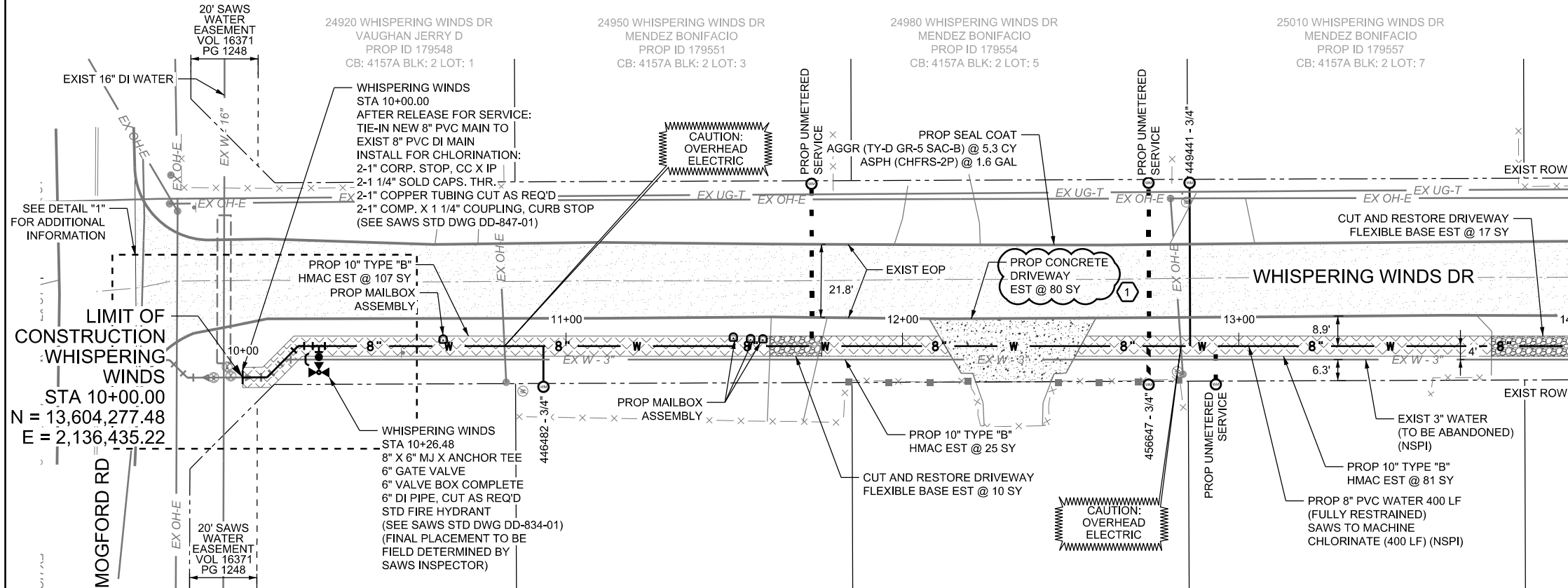
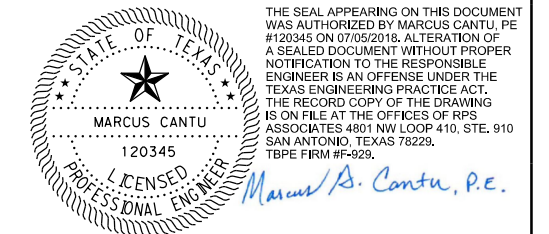
1 ADDENDUM 1 (07-05-2018) - UPDATED DESCRIPTION AND REVISED QUANTITY OF COSA ITEM NO. 503.1 PORTLAND CEMENT DRIVEWAYS (100 SY < X < 10,000 SY).

LEGEND

- EXISTING R.O.W. -----
- EXISTING EASEMENT -----
- EXISTING OVERHEAD ELECTRIC --- EX OH-E ---
- EXISTING TELEPHONE --- EX UG-T ---
- EXISTING WATER --- EX W-3" ---
- EXISTING POWER POLE ●
- REPLACE FENCE -x-x-x-
- RELOCATE/REPLACE MAILBOX □
- PROPOSED STEEL CASING [Pattern]
- PROPOSED CONCRETE DRIVEWAY [Pattern]
- PROPOSED FLEXIBLE BASE [Pattern]
- PROPOSED CEMENT STABILIZED BACKFILL [Pattern]
- PROPOSED PAVEMENT [Pattern]
- PROPOSED HMAC TYPE "B" [Pattern]
- PROPOSED SEAL COAT [Pattern]
- PROPOSED WATER 8" W ○
- PROPOSED WATER METER BOX ○

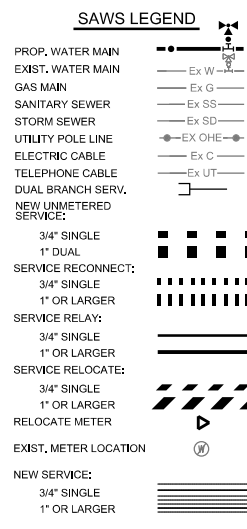
NOTES

- 1 CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, STREETS, DRIVEWAYS, CULVERTS, SIGNS, MAILBOXES, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.
- 2 CONTRACTOR IS RESPONSIBLE FOR INSTALLING THRUST BLOCKING AND RESTRAINT SYSTEM AT TIE-INS, BENDS, VALVES, ETC. TO EXISTING MAINS
- 3 CONTRACTOR SHALL SALVAGE EXISTING METER BOXES AND RETURN TO SAWS INSPECTOR TO PROVIDE DIRECTION IN THE FIELD FOR REUSE OR REPLACEMENT OF METER BOXES. METER BOXES ARE TO BE PLACED TYPICALLY BETWEEN THE STREET AND THE ROW. FINAL PLACEMENT SHALL BE AT THE DIRECTION OF THE SAWS INSPECTOR.
- 4 EXISTING WATER LINE SHALL BE ABANDONED IN PLACE EXCEPT WHERE REMOVAL IS NOTED.
- 5 MEASUREMENTS SHOWN BETWEEN WATER MAINS AND PARALLEL UTILITIES ARE TAKEN FROM CENTER TO CENTER DIAMETER.
- 6 CONTRACTOR SHALL INSTALL ALL POTABLE WATER VALVES TO OPEN "COUNTER-CLOCKWISE" LEFT. IN ADDITION, ALL FIRE HYDRANTS SHALL BE PAINTED YELLOW IN ACCORDANCE TO BEXAR COUNTY.
- 7 CONTRACTOR TO COORDINATE WITH SAWS INSPECTOR AND COSA TREE ARBORIST FOR TREE PROTECTION REQUIREMENTS.
- 8 CONTRACTOR TO REVIEW MISCELLANEOUS DETAILS ON SHEETS 33-34 FOR TRENCH EXCAVATION, PAVEMENT REPAIR, DRIVEWAYS AND UTILITY CONFLICTS.



ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANT.
200	FLEXIBLE BASE	SY	27
205.2*	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	SY	213
503.1*	PORTLAND CEMENT DRIVEWAYS (100 SY < X < 10,000 SY)	SY	80
550*	TRENCH EXCAVATION SAFETY PROTECTION	LF	400
818	8" WATERLINE, PVC C-900 (FULLY RESTRAINED)	LF	400
822	SHORT YARD PIPING	LF	10
822	LONG YARD PIPING	LF	5
824	NEW UNMETERED 3/4" SHORT SERVICE	EA	1
824	NEW UNMETERED 3/4" LONG SERVICE	EA	2
824	RELAY 3/4" SHORT SERVICE	EA	1
824	RELAY 3/4" LONG SERVICE	EA	1
824	RELOCATE 3/4" SHORT SERVICE	EA	1
833	EXISTING METER & NEW METER BOX RELOCATION	EA	3
833	NEW METER BOX	EA	6
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.09
840	8" WATER TIE-INS	EA	1
841	HYDROSTATIC TESTING	EA	1
844	2" TEMPORARY BLOWOFFS	EA	1
1020	8" MAIN BREAK/LEAK REPAIR	EA	1
316 6018**	ASPH (CHFRS-2P)	GAL	1.6
316 6193**	AGGR(TY-D GR-5 SAC-B)	CY	5.3
560 2001**	MAILBOX ASSEMBLIES (SINGLE)	EA	4



NO.	REVISION	DRAWN	APPROVED	DATE

RPS
4801 NW Loop 410, Suite 910
San Antonio, Texas 78229
T 210 736 0425
USInfrastructure@rpsgroup.com
Texas PE Firm #F-929

WHISPERING WINDS DR AND DUNES AVE - FROM MOGFORD TO RIPTIDE WATER REPLACEMENT PROJECT

WHISPERING WINDS WATER LINE STA 10+00 TO STA 14+00

DEVELOPER: _____
CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
APPROVED _____

MAP NO. _____ SHEET _____
SECT. NO. _____ 9 OF 58

DR. JRP CK. MGC JOB NO. 17-7004

7/5/2018 10:34:44 AM T:\007626 2017 Pipelines Eng Sys PS-00035-07 W0307.00 CADD\SAWS WHISPERING WIND07-VI Utilities\007626 WINDS WTR_PP01.dgn

TRENCH SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND 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 EXCAVATIONS SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR 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.

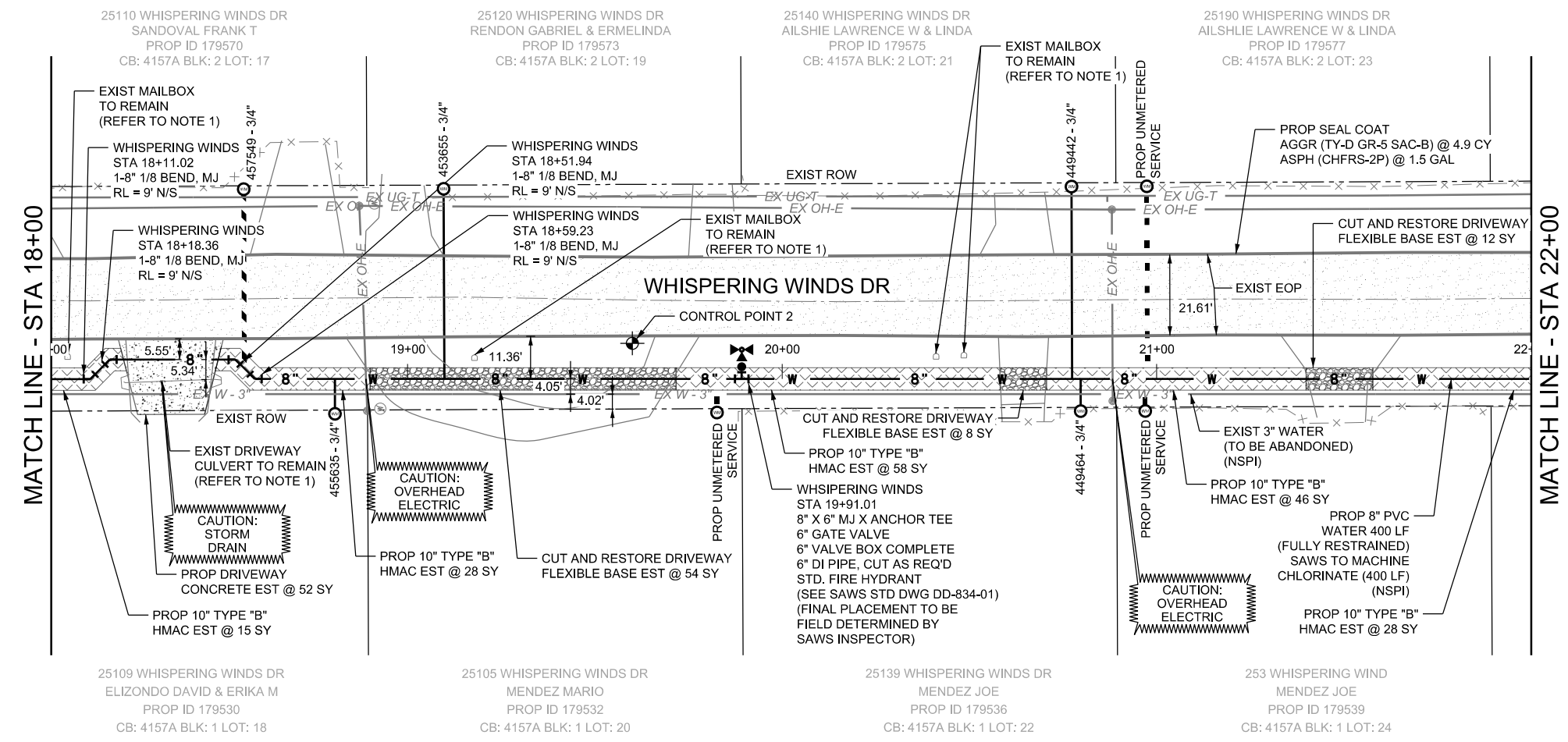
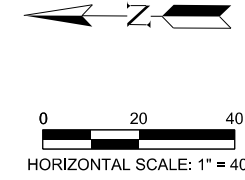
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

RESTRAINED LENGTH NOTE:
RL = RESTRAINED LENGTH

1 ADDENDUM 1 (07-05-2018) - UPDATED DESCRIPTION OF COSA ITEM NO. 503.1
PORTLAND CEMENT CONCRETE DRIVEWAYS (100 SY < X < 10,000 SY).

LEGEND

- EXISTING R.O.W. -----
- EXISTING EASEMENT - - - - -
- EXISTING OVERHEAD ELECTRIC --- EX OH-E ---
- EXISTING TELEPHONE --- EX UG-T ---
- EXISTING WATER --- EX W - 3" ---
- EXISTING POWER POLE ●
- REPLACE FENCE - x - x - x -
- RELOCATE/REPLACE MAILBOX □
- PROPOSED STEEL CASING [Pattern]
- PROPOSED CONCRETE DRIVEWAY [Pattern]
- PROPOSED FLEXIBLE BASE [Pattern]
- PROPOSED CEMENT STABILIZED BACKFILL [Pattern]
- PROPOSED PAVEMENT [Pattern]
- PROPOSED HMAC TYPE "B" [Pattern]
- PROPOSED SEAL COAT [Pattern]
- PROPOSED WATER 8" W
- PROPOSED WATER METER BOX ○



NOTES

- 1 CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, STREETS, DRIVEWAYS, CULVERTS, SIGNS, MAILBOXES, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.
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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARCUS CANTU, PE #120345 ON 07/05/2018. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THE DRAWING IS ON FILE AT THE OFFICES OF RPS ASSOCIATES 4801 NW LOOP 410, STE. 910 SAN ANTONIO, TEXAS 78229. TBPE FIRM #F-929.

Manuel A. Cantu, P.E.

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANT.
200	FLEXIBLE BASE	SY	74
205.2*	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	SY	175
503.1*	PORTLAND CEMENT CONCRETE DRIVEWAYS (100 SY < X < 10,000 SY)	SY	52
550*	TRENCH EXCAVATION SAFETY PROTECTION	LF	400
818	8" WATERLINE, PVC C-900 (FULLY RESTRAINED)	LF	400
822	SHORT YARD PIPING	LF	10
822	LONG YARD PIPING	LF	15
824	NEW UNMETERED 3/4" SHORT SERVICE	EA	2
824	NEW UNMETERED 3/4" LONG SERVICE	EA	1
824	RELAY 3/4" SHORT SERVICE	EA	2
824	RELAY 3/4" LONG SERVICE	EA	2
824	RELOCATE 3/4" LONG SERVICE	EA	1
833	EXISTING METER & NEW METER BOX RELOCATION	EA	5
833	NEW METER BOX	EA	8
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.14
316 6018**	ASPH (CHFRS-2P)	GAL	1.5
316 6193**	AGGR(TY-D GR-5 SAC-B)	CY	4.9

SAWS LEGEND

- PROF. WATER MAIN --- Ex W ---
- EXIST. WATER MAIN --- Ex W ---
- GAS MAIN --- Ex G ---
- SANITARY SEWER --- Ex SS ---
- STORM SEWER --- Ex SD ---
- UTILITY POLE LINE --- EX OH-E ---
- ELECTRIC CABLE --- Ex C ---
- TELEPHONE CABLE --- Ex UT ---
- DUAL BRANCH SERV. --- [Symbol]
- NEW UNMETERED SERVICE: [Symbol]
- 3/4" SINGLE [Symbol]
- 1" DUAL [Symbol]
- SERVICE RECONNECT: [Symbol]
- 3/4" SINGLE [Symbol]
- 1" OR LARGER [Symbol]
- SERVICE RELAY: [Symbol]
- 3/4" SINGLE [Symbol]
- 1" OR LARGER [Symbol]
- SERVICE RELOCATE: [Symbol]
- 3/4" SINGLE [Symbol]
- 1" OR LARGER [Symbol]
- RELOCATE METER [Symbol]
- EXIST. METER LOCATION [Symbol]
- NEW SERVICE: [Symbol]
- 3/4" SINGLE [Symbol]
- 1" OR LARGER [Symbol]

NO.	REVISION	DRAWN	APPROVED	DATE

RPS
4801 NW Loop 410, Suite 910
San Antonio, Texas 78229
T 210 736 0425
USInfrastructure@rpsgroup.com
Texas PE Firm Reg. #F-929

WHISPERING WINDS DR AND DUNES AVE - FROM MOGFORD TO RIPTIDE WATER REPLACEMENT PROJECT

WHISPERING WINDS WATER LINE STA 18+00 TO STA 22+00

DEVELOPER: _____
CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
APPROVED _____

MAP NO. _____ SHEET _____
SECT. NO. _____
DR. JRP CK. MGC JOB NO. 17-7004 11 OF 58

7/5/2018 10:34:06 AM T:\007626 2017 Pipelines Eng Sys PS-00035-07 W0307.00 CADD\SAWS WHISPERING WIND07-01 Utilities\007626 WINDS WTR_PP03.dgn

TRENCH SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND 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 EXCAVATIONS SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR 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.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

RESTRAINED LENGTH NOTE:
RL = RESTRAINED LENGTH

* EXISTING VALVES WERE NOT IDENTIFIED DURING FIELD SURVEY. CONTRACTOR SHALL COORDINATE WITH SAWS INSPECTOR TO LOCATE, REMOVE, AND SALVAGE EXISTING VALVES.

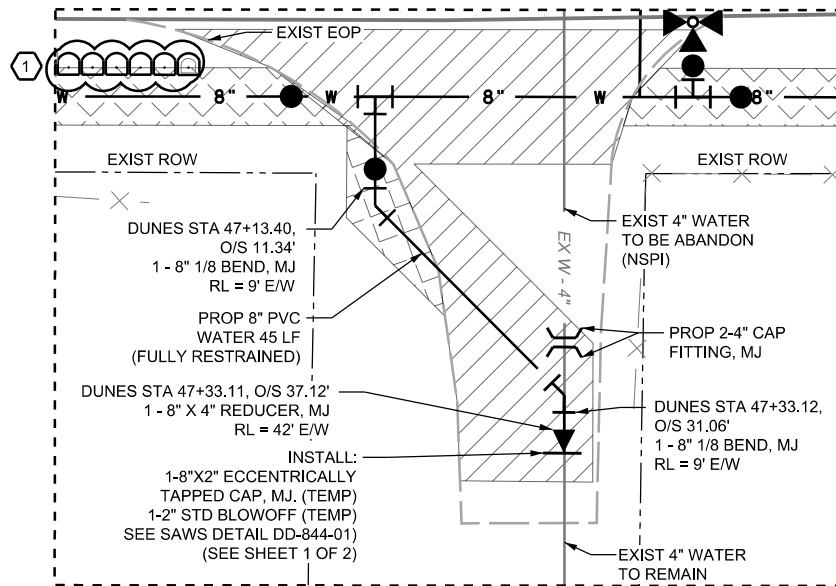
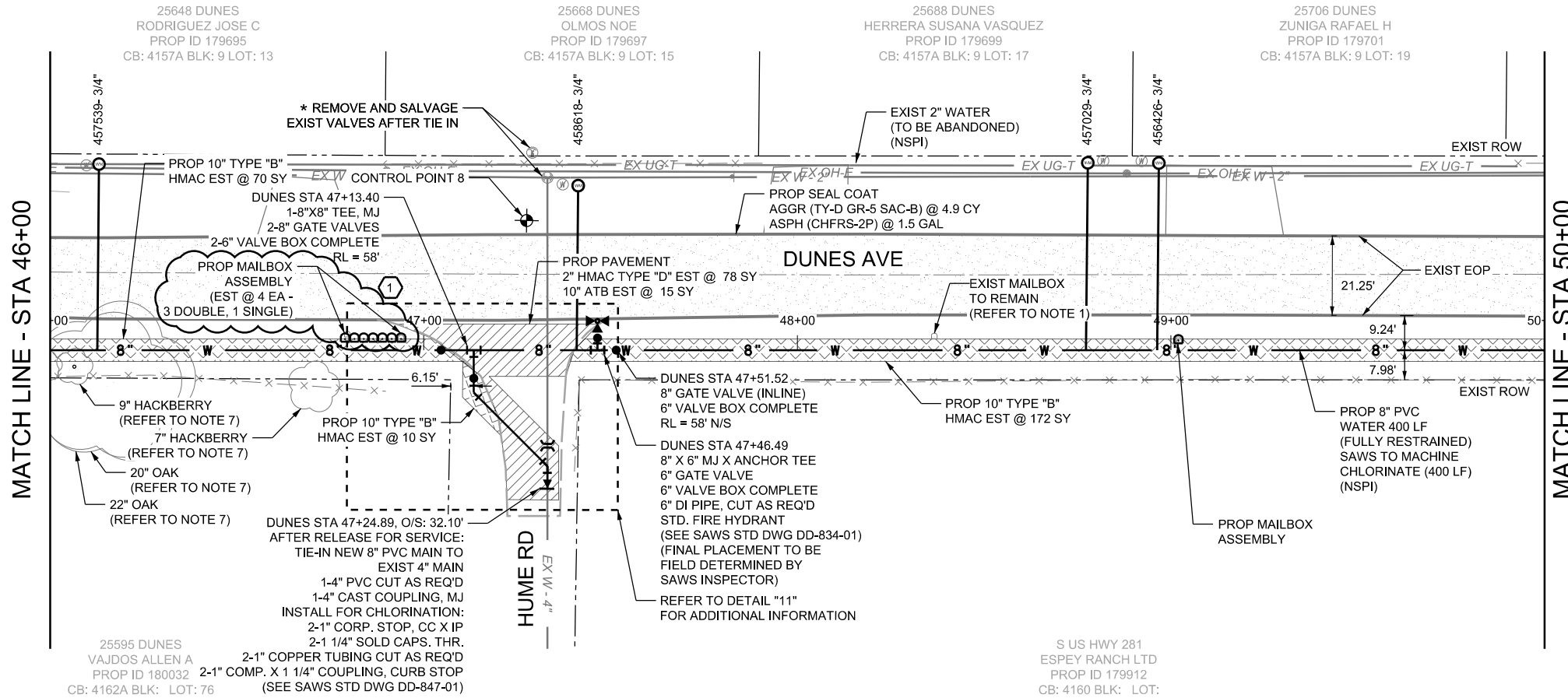
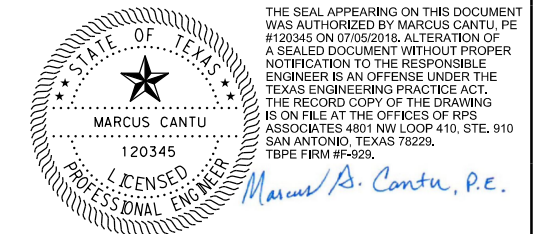
1 ADDENDUM 1 (07-05-2018) - UPDATED CALLOUTS OF PROP MAILBOX ASSEMBLIES AT HUME RD, REMOVED CALLOUT FOR EXIST MAILBOX TO REMAIN, AND ADDED QUANTITY OF TXDOT ITEM NO. 560 2002 MAILBOX ASSEMBLIES (DOUBLE).

LEGEND

- EXISTING R.O.W. -----
- EXISTING EASEMENT -----
- EXISTING OVERHEAD ELECTRIC --- EX OHE ---
- EXISTING TELEPHONE --- EX UG-T ---
- EXISTING WATER --- EX W-3" ---
- EXISTING POWER POLE ●
- REPLACE FENCE -x-x-x-
- RELOCATE/REPLACE MAILBOX □
- PROPOSED STEEL CASING [Pattern]
- PROPOSED CONCRETE DRIVEWAY [Pattern]
- PROPOSED FLEXIBLE BASE [Pattern]
- PROPOSED CEMENT STABILIZED BACKFILL [Pattern]
- PROPOSED PAVEMENT [Pattern]
- PROPOSED HMAC TYPE "B" [Pattern]
- PROPOSED SEAL COAT [Pattern]
- PROPOSED WATER 8" W
- PROPOSED WATER METER BOX ○

NOTES

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DETAIL "11"
NTS

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANT.
205.2*	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH)	SY	253
205.3*	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	78
206*	ASPALT TREATED BASE (10" COMPACTED DEPTH)	SY	15
550*	TRENCH EXCAVATION SAFETY PROTECTION	LF	445
818	4" WATERLINE, PVC C-900	LF	5
818	8" WATERLINE, PVC C-900 (FULLY RESTRAINED)	LF	445
822	LONG YARD PIPING	LF	20
824	RELAY 3/4" LONG SERVICE	EA	4
828	8" GATE VALVES	EA	3
833	EXISTING METER & NEW METER BOX RELOCATION	EA	4
833	NEW METER BOX	EA	4
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.16
840	4" WATER TIE-INS	EA	1
841	HYDROSTATIC TESTING	EA	1
844	2" TEMPORARY BLOWOFFS	EA	1
1020	4" MAIN BREAK/LEAK REPAIR	EA	1
316 6018**	ASPH (CHFRS-2P)	GAL	1.5
316 6193**	AGGR(TY-D GR-5 SAC-B)	CY	4.9
560 2001**	MAILBOX ASSEMBLIES (SINGLE)	EA	2
560 2002**	MAILBOX ASSEMBLIES (DOUBLE)	EA	3

SAWS LEGEND

- PROP. WATER MAIN --- Ex W ---
- EXIST. WATER MAIN --- Ex W ---
- GAS MAIN --- Ex G ---
- SANITARY SEWER --- Ex SS ---
- STORM SEWER --- Ex SD ---
- UTILITY POLE LINE --- EX OHE ---
- ELECTRIC CABLE --- Ex C ---
- TELEPHONE CABLE --- EX UT ---
- DUAL BRANCH SERV. ---
- NEW UNMETERED SERVICE: ---
- 3/4" SINGLE ---
- 1" OR LARGER ---
- SERVICE RECONNECT: ---
- 3/4" SINGLE ---
- 1" OR LARGER ---
- SERVICE RELAY: ---
- 3/4" SINGLE ---
- 1" OR LARGER ---
- SERVICE RELOCATE: ---
- 3/4" SINGLE ---
- 1" OR LARGER ---
- RELOCATE METER ---
- EXIST. METER LOCATION ---
- NEW SERVICE: ---
- 3/4" SINGLE ---
- 1" OR LARGER ---

NO.	REVISION	DRAWN	APPROVED	DATE

RPS
4801 NW Loop 410, Suite 910
San Antonio, Texas 78229
T 210 736 0425
USInfrastructure@rpsgroup.com
Texas PE Firm Reg. #F-929

WHISPERING WINDS DR AND DUNES AVE - FROM MOGFORD TO RIPTIDE WATER REPLACEMENT PROJECT

DUNES WATER LINE STA 46+00 TO STA 50+00

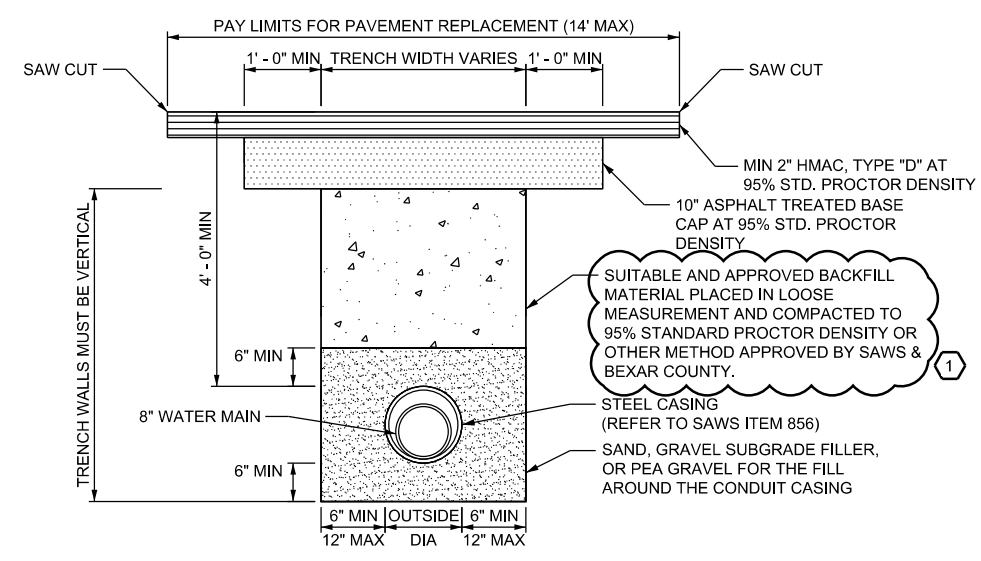
DEVELOPER: _____
CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
APPROVED _____

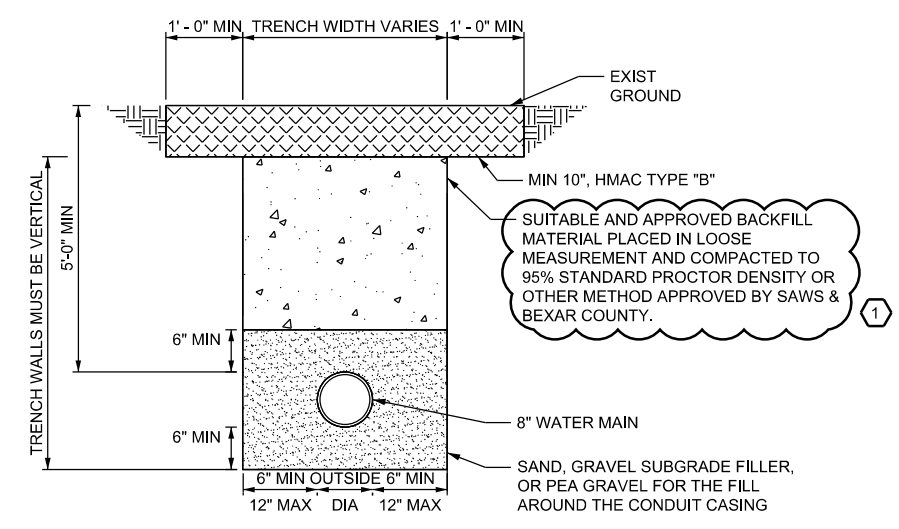
MAP NO. _____ SHEET _____
SECT. NO. _____
DR. JRP CK. MGC JOB NO. 17-7004 29 OF 58

7/5/2018 10:35:16 AM T:\007626 2017 Pipelines Eng Sys PS-00035-07 W0307.00 CADD\SAWS WHISPERING WIND\07-VI Utilities\007626 DUNES WTR_DPP10.dgn

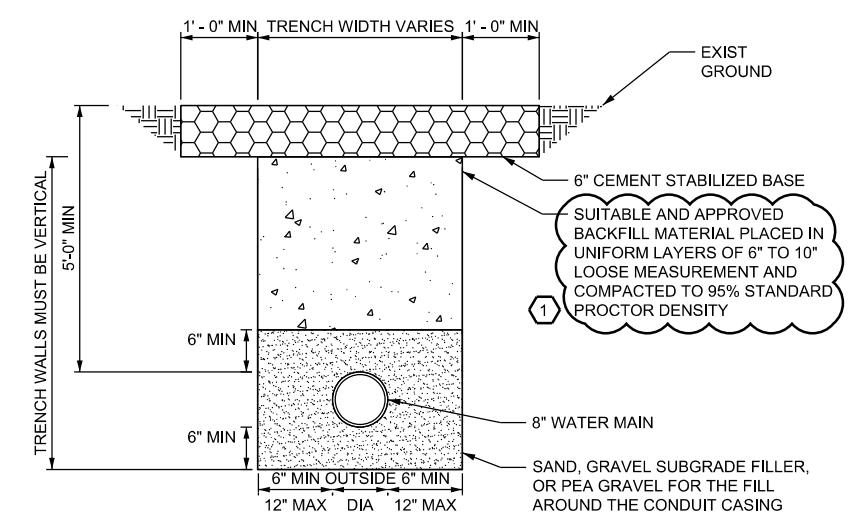
1 ADDENDUM 1 (07-05-2018) - REMOVED QUICKEST FLASH FILL REFERENCE ON PRIMARY BACKFILL NOTE AND APPROVAL BY SAWS & BEXAR COUNTY ON ALL DETAILS.



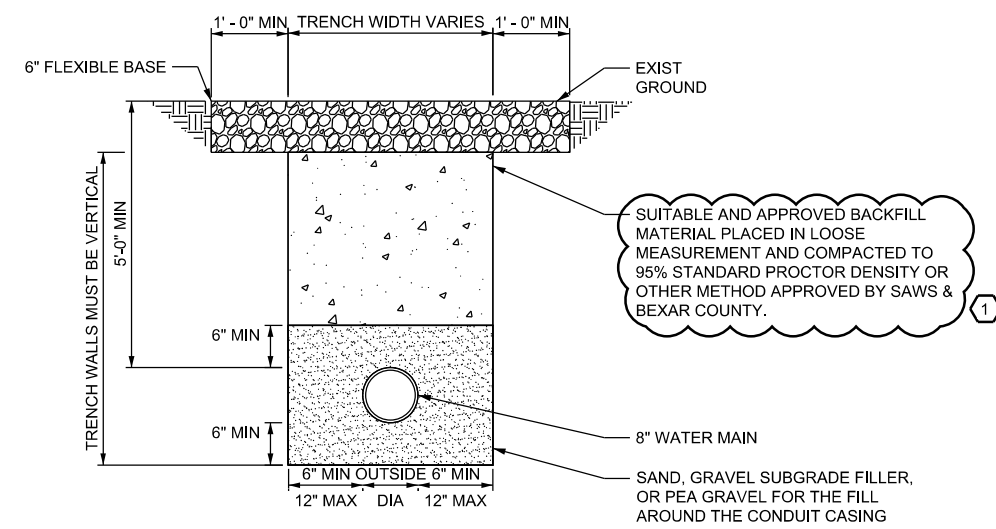
TYPICAL PAVEMENT DETAIL
(INTERSECTION AREAS)
N.T.S.
UNLESS OTHERWISE NOTED ON PLANS



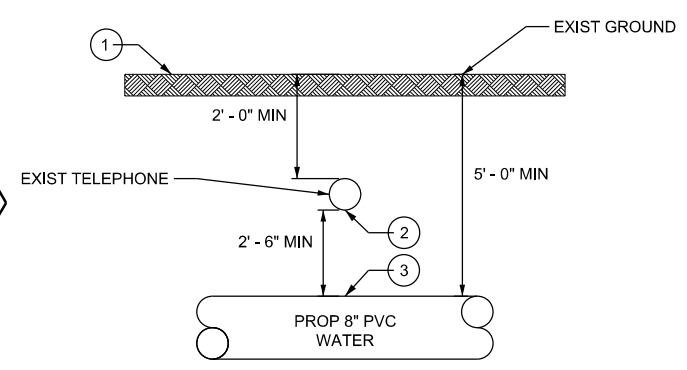
TYPICAL PAVEMENT DETAIL
(PARKWAY AREAS)
N.T.S.
UNLESS OTHERWISE NOTED ON PLANS



CEMENT STABILIZED BACKFILL DETAIL
(AREAS 4' WITHIN EDGE OF PAVEMENT)
N.T.S.
UNLESS OTHERWISE NOTED ON PLANS

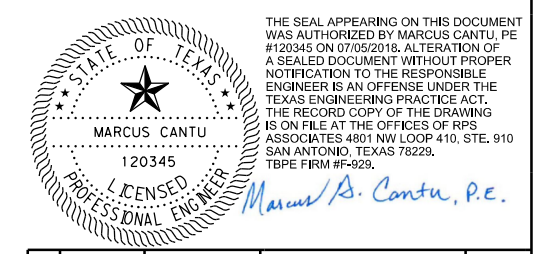


TYPICAL DRIVEWAY DETAIL
(6" FLEXIBLE BASE DRIVEWAY)
N.T.S.
UNLESS OTHERWISE NOTED ON PLANS



TYPICAL DETAIL
(TELEPHONE CROSSING)
N.T.S.

PROP 8 INCH WATER/TELEPHONE CROSSING					
STREET	STA	O/S	(1) PROP GROUND ELEVATION	(2) EXIST TELEPHONE DEPTH (INVERT)	(3) PROP WATER DEPTH (SOFFIT)
WHISPERING WINDS	23+92.00	51.11 LT	647.14	644.97	642.47
WHISPERING WINDS	24+00.71	0	646.4	644.23	641.73
WHISPERING WINDS	38+58.79	47.8 LT	628.28	626.11	623.61
DUNES	10+23.44	0	650.7	648.53	646.03
DUNES	24+55.00	42.92 LT	641.52	639.35	636.85
DUNES	39+36.01	48.07 LT	620.34	618.17	615.67



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T 210 736 0425
USInfrastructure@rpsgroup.com
Texas PE Firm Reg. #F-929

WHISPERING WINDS DR AND DUNES AVE - FROM MOGFORD TO RIPTIDE WATER REPLACEMENT PROJECT

MISCELLANEOUS DETAILS 1

DEVELOPER: _____
CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
APPROVED _____

MAP NO. _____ SHEET _____
SECT. NO. _____
DR. JRP CK. MGC JOB NO. 17-7004 33 OF 58

7/5/2018 10:57:22 AM T:\007626 2017 Pipelines Eng Sys PS-00035-07 W0307.00 CADD\SAWS WHISPERING WIND\11-X Misc\laneus Items\07626_MISC_DET1.dgn