



**SAN ANTONIO WATER SYSTEM**  
**HIDDEN SPRINGS**  
**WATER PROJECT**  
**SAWS Job No. 11-7003**  
**SAWS Solicitation No. B-13-019-DB**

**ADDENDUM NO.2**  
**March 13, 2013**

**To Bidder of Record:**

This addendum, applicable to work referenced above, is an amendment to the bidding documents 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 in the space provided in submitted copies of the proposal.

**Item 1: Mandatory Pre-Bid Meeting**

Bids will not be accepted from any company not represented at the mandatory pre-bid meeting held on March 6, 2013 at 10:00AM. The following list is a record of the represented firms:

1. Bartek
2. Pesado
3. EZ Bel Construction
4. Rockin Q
5. Wauters Engineering
6. San Antonio Constructors, LTD
7. Atlas Construction Corp
8. Pronto Sandblasting
9. QRO MEX Constr. Co. Inc.
10. Ella SA Contracting, LP

**Item 2: Mandatory Pre-Bid Meeting Notes**

Meeting Notes are attached for information only. The pre-bid meeting sign-in sheet has been posted previously on the SAWS website.

**Item 3: Bid Proposal**

Item 205.4 Hot Mix Asphaltic Pavement, Type D (2" Comp Depth) has been revised.

Item 208.1 Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (2” Comp Depth) has been revised.

REPLACE the Bid Proposal in its entirety with the attached Bid Proposal.

**Item 4: Supplemental Conditions**

ADD the following to Page SS-1:

“2. ARTICLE V. CONTRACT RESPONSIBILITIES

Page GC 27: Section 5.7.1.1.8 – Builder’s Risk line of coverage is hereby waived.”

**Item 5: Modifications to Plans**

1. REPLACE the following attached Sheets in entirety:

- Sheet G2
- Sheet W19
- Sheet W20
- Sheet W21
- Sheet W22
- Sheet W23
- Sheet W24
- Sheet W25
- Sheet W26

2. ADD the following attached Sheets:

- Sheet W29A

3. REPLACE the following callout on Sheet W8:

**“PROP 12” PVC (C-900)  
DR14 WATER MAIN  
EST @ 405 LF±”**

with the following callout:

**“PROP 12” PVC (C-900)  
DR18 WATER MAIN  
EST @ 405 LF±”**

4. REPLACE the following callout on Sheet W16 and W17:  
**“PROP 6” PRESSURE REDUCING VALVE VAULT  
(SEE DETAIL SHEET W27)”**

with the following callout:

**“PROP 6” PRESSURE REDUCING VALVE VAULT  
(SEE DETAIL SHEET W30)”**

5. ADD the following note to Sheet W27, W28 and W29:  
**“NOTE: TYPICAL CONCRETE SPLASH PAD SHALL BE  
2.5 FT WIDE X 3 FT LONG.”**

**Item 6: Response to Bidder Questions**

Q1: There is no trench backfill detail showing the base and surface course requirements in paved areas? Is it possible to get a trench backfill detail showing the limits of the HMAC Type “B” (Item 205.2)

**A1: *A trench detail has been provided with new Sheet W29A.***

Q2: I cannot seem to find in the Contract Documents and Technical Specification book where it lists the liquidated damages. Could you please let me know what the liquidated damages are?

**A2: *The liquidated damages are found in the Supplemental Conditions on Page SS-1.***

Q3: After seeing the site yesterday, where is the contractor supposed to store their equipment every night?

**A3: *It is the contractor’s responsibility to determine and obtain appropriate storage areas for materials and equipment. SAWS does not provide staging areas.***

Q4: Is the contractor going to be allowed to sawcut and replace material in the trench for the entire project, as is typical?

**A4: *The Contractor will be allowed to excavate and temporarily backfill for the entire project as long as a drivable surface, as approved by SAWS, is provided and maintained at the end of each work day, see General Note 9 and 14 on Sheet W1 (No Separate Pay Item).***

Q5: Can the engineer please provide a trench detail.

**A5: *Yes, see new sheet W29A.***

Q6: Is the contractor going to be allowed to place a port-a-let onsite?

**A6: *Yes, see “Sanitary Provisions”; Section 5.22 of the General Conditions.***

Q7: Joint restraint distances per plan or everything restrained?

**A7: *Water mains are to be restrained as indicated on the plans. For all other areas such as Pressure Reducing Valve and Pressure Relief Valve installations, joints and fittings are to be fully restrained.***

Q8: Avoidances and utility crossings are to be field verified?

**A8: *Yes, all avoidances and utility crossings shall to be field verified.***

- Q9: Is there 12" DR18 and DR14?  
A9: ***No, all 12" water mains are to be DR18. The 12" water main callout on Sheet W8 should indicate DR18 and not DR14. See Item 5.3 of this Addendum.***
- Q10: Drain tap assemblies are to have a 3/4" sampling port? And 2" drain port?  
A10: ***Yes, see SAWS Detail DD-901-03 (Sheet 3 of 4) on SAWS website.***
- Q11: Are there 2-6" gate valves and 2-4" gate valves inside the vault on each pressure reducing valve?  
A11: ***Yes.***
- Q12: Are there to be flowmeters installed?  
A12: ***Flowmeters will not be installed.***
- Q13: The temporary blow-offs that are on the proposal are not on plans. What size of pipe will they be coming off?  
A13: ***A temporary blow-off will be on the 12" main at the end of Falcon View (Approx. STA. 807+25). Three temporary blow-offs will be on 8" mains at the end of Cedar Brush (Approx. STA. 606+25), Rocky Hill (Approx. STA. 237+50) and Manor Hill (Approx. STA. 433+00). Two temporary blow-offs will be on 6" mains at the tie-ins near Falcon View/Rocky Hill intersection (Approx. STA. 226+83) and Manor Hill/Cedar Brush Easement intersection (Approx. STA. 420+14).***
- Q14: Can please provide more information for the 4" gauges to be used on the PRV.  
A14: ***Ashcroft 1279, Wika and Ametek US Gauge are acceptable manufacturers for pressure gauges.***
- Q15: PRV boxes on the street are underpayment, aluminum double leaf hatch access doesn't clarify if it is supposed to be traffic rated?  
A15: ***Yes, they will need to be traffic rated. See Note 2 on Sheet W16 and W17: "Vault and hatches shall be HS-20 Traffic Rated."***
- Q16: Item 11295 hidden Springs Main Line Pressure Reducing Valve Assembly 2 each. On the plans, sheets W16 & W17, it is calling for Prop 6" Pressure Reducing Valve Vault (see detail sheet W27) which is a Type A detail, should that be sheet W30 detail instead?  
A16: ***Correct. The callout on W16 and W17 should read "Prop 6" Pressure Reducing Vault (See Detail Sheet W30)." See Item 5.4 of this Addendum.***
- Q17: In the PRV Vault assemblies, could Ductile Iron Flange pipe and fittings be used instead of Steel pipe and fittings as shown on sheets W-27 thru W-30?  
A17: ***No, steel piping will be required within the vault.***

The remainder of the bid documents remains unchanged.

This Addendum, including this page, is five (5) pages in its entirety.

**Each bidder is requested to acknowledge receipt of this Addendum No. 2 by his/her signature affixed hereto and to file same as an attachment to his/her bid.**



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Steven H. Thai, P.E.  
Project Engineer  
LNV  
TBPE Firm No. F-366



The Undersigned acknowledges receipt of this Addendum No. 2 and the bid submitted herewith is in accordance with the information and stipulation set forth.

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Date

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Signature of Bidder

**END OF ADDENDUM**

**MANDATORY PRE-BID MEETING NOTES**  
**SAN ANTONIO WATER SYSTEM**  
**HIDDEN SPRINGS WATER PROJECT**  
**SAWS Job No. 11-7003**  
**SAWS Solicitation No. B-13-019-DB**

I. MEETING TIME/PLACE

- Monday, March 6, 2013 10:00 a.m.
- SAWS, Tower II, Conf. Rm. 154

II. INTRODUCTION AND SIGN-IN

Patrick O'Connor, P.E.  
San Antonio Water System

III. PROJECT DISCUSSION

1. Overview of the project.
2. Hours of work will be Monday through Friday, 8AM to 5PM.
3. Geotechnical Report is available online.
4. Non-mandatory Site Visit will be conducted March 6, 2013 at 2:00 p.m.
5. Eligible bidders will be noted and need to sign the sign-in sheet.
6. Contractors are to submit questions in writing.

IV. QUESTIONS

- Is there a Trench Detail?  
Pavement/trench detail will be addressed in Addendum. Plating will be permissible.
- During construction, will the contractor have entry code into Hidden Springs/access to work site?  
Yes.

V. CLOSING COMMENTS

- Submit questions in writing by 4:00 PM (CST) on March 8, 2013 to David Benites at [dabenites@saws.org](mailto:dabenites@saws.org). Questions regarding the content or interpretation of the Bid Documents must be submitted in writing to be considered valid and to elicit a response.
- Responses to the questions will be posted to the web site by 4:00 PM (CST) on March 13, 2013 as a separate document or included as part of an addendum.
- Bids are due prior to 10:00 AM, March 20, 2013 @ The Contract Administration Division, 2800 U.S. Hwy 281 North, Customer Center Building, Suite 171, San Antonio, Texas 78212
- Bids will be publicly opened and read aloud by the SAWS Contract Administration Division in Conference Suite 169, SAWS Customer Center Building.

**Hidden Springs Water Project  
 Job No. 11-7003  
 Solicitation No. B-13-019-DB**

PROPOSAL

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

TO THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instruction and Invitations to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the construction of new water mains and appurtenances for the San Antonio Water System (SAWS) in accordance with the Plans and Specifications for Hidden Springs Water Project. Job No. 11-7003. The work will be performed for the following prices to wit:

| Item No. | Description<br>(Unit Price to be written in words)  | Unit | Quantity | Unit Price<br>(Figures) | Total Price<br>(Figures) |
|----------|---|------|----------|-------------------------|--------------------------|
| 205.2    | Hot Mix Asphaltic Pavement,<br>Type B (12" Comp Depth);<br><br>_____ Dollars<br>_____ Cents                                   | SY   | 1,800    | \$ _____                | \$ _____                 |
| 205.4    | Hot Mix Asphaltic Pavement,<br>Type D (2" Comp Depth);<br><br>_____ Dollars<br>_____ Cents                                    | SY   | 14,700   | \$ _____                | \$ _____                 |
| 208.1    | Salvaging, Hauling, and Stockpiling<br>Reclaimable Asphaltic Pavement<br>(2" Comp Depth);<br><br>_____ Dollars<br>_____ Cents | SY   | 14,700   | \$ _____                | \$ _____                 |
| 500.1    | Concrete Curb;<br><br>_____ Dollars<br>_____ Cents  | LF   | 38       | \$ _____                | \$ _____                 |

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| <u>Item No.</u> | <u>Description<br/>(Unit Price to be written in words)</u> | <u>Unit</u> | <u>Quantity</u> | <u>Unit Price<br/>(Figures)</u> | <u>Total Price<br/>(Figures)</u> |
|-----------------|--|-------------|-----------------|---------------------------------|----------------------------------|
| 505.1           | Concrete Riprap (9" Thick);                                | SY          | 7               |                                 |                                  |
|                 | <u>Dollars</u>   |             |                 | \$ _____                        | \$ _____                         |
|                 | <u>Cents</u>   |             |                 |                                 |                                  |
| 515.1           | Topsoil (4");  | CY          | 36              |                                 |                                  |
|                 | <u>Dollars</u>   |             |                 | \$ _____                        | \$ _____                         |
|                 | <u>Cents</u>   |             |                 |                                 |                                  |
| 516.1           | Bermuda Sodding;   | SY          | 322             |                                 |                                  |
|                 | <u>Dollars</u>   |             |                 | \$ _____                        | \$ _____                         |
|                 | <u>Cents</u>   |             |                 |                                 |                                  |
| 530.1.          | Barricades, Signs and Traffic Handling;                    | LS          | 1               |                                 |                                  |
|                 | <u>Dollars</u>   |             |                 | \$ _____                        | \$ _____                         |
|                 | <u>Cents</u>   |             |                 |                                 |                                  |
| 540.9.          | Temporary Sediment Control Fence;                          | LF          | 1,170           |                                 |                                  |
|                 | <u>Dollars</u>   |             |                 | \$ _____                        | \$ _____                         |
|                 | <u>Cents</u>   |             |                 |                                 |                                  |
| 540.10          | Curb Inlet Gravel Filters;                                 | LF          | 60              |                                 |                                  |
|                 | <u>Dollars</u>   |             |                 | \$ _____                        | \$ _____                         |
|                 | <u>Cents</u>   |             |                 |                                 |                                  |
| 550             | Trench Excavation Safety Protection;                       | LF          | 4,299           |                                 |                                  |
|                 | <u>Dollars</u>   |             |                 | \$ _____                        | \$ _____                         |
|                 | <u>Cents</u>   |             |                 |                                 |                                  |





**Hidden Springs Water Project  
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| Item No. | Description<br>(Unit Price to be written in words)                      | Unit | Quantity | Unit Price<br>(Figures) | Total Price<br>(Figures) |
|----------|---|------|----------|-------------------------|--------------------------|
| 828      | 6" Gate Valves;<br><br>_____ Dollars<br>_____ Cents                     | EA   | 5        | \$ _____                | \$ _____                 |
| 828      | 8" Gate Valves;<br><br>_____ Dollars<br>_____ Cents                     | EA   | 1        | \$ _____                | \$ _____                 |
| 828      | 12" Gate Valves;<br><br>_____ Dollars<br>_____ Cents                    | EA   | 7        | \$ _____                | \$ _____                 |
| 834      | Fire Hydrants;<br><br>_____ Dollars<br>_____ Cents                      | EA   | 5        | \$ _____                | \$ _____                 |
| 836      | Pipe Fittings, All Sizes and Types;<br><br>_____ Dollars<br>_____ Cents | TON  | 6.35     | \$ _____                | \$ _____                 |
| 840      | 6" Water Tie-Ins;<br><br>_____ Dollars<br>_____ Cents                   | EA   | 6        | \$ _____                | \$ _____                 |
| 840      | 12" Water Tie-Ins;<br><br>_____ Dollars<br>_____ Cents                  | EA   | 1        | \$ _____                | \$ _____                 |

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| Item No. | Description<br>(Unit Price to be written in words)    | Unit | Quantity | Unit Price<br>(Figures) | Total Price<br>(Figures) |
|----------|---|------|----------|-------------------------|--------------------------|
| 841      | Hydrostatic Testing;                                  | EA   | 6        |                         |                          |
|          | _____ Dollars   |      |          | \$ _____                | \$ _____                 |
|          | _____ Cents   |      |          |                         |                          |
| 844      | 2" Blowoff, Temporary;                                | EA   | 6        |                         |                          |
|          | _____ Dollars   |      |          | \$ _____                | \$ _____                 |
|          | _____ Cents   |      |          |                         |                          |
| 846      | 1" Air Release Assemblies;                            | EA   | 4        |                         |                          |
|          | _____ Dollars   |      |          | \$ _____                | \$ _____                 |
|          | _____ Cents   |      |          |                         |                          |
| 856.1    | Jacking, Boring and Tunneling 24";                    | LF   | 40       |                         |                          |
|          | _____ Dollars   |      |          | \$ _____                | \$ _____                 |
|          | _____ Cents   |      |          |                         |                          |
| 856.2    | 8" Carrier Pipe for Jacking,<br>Boring and Tunneling; | LF   | 40       |                         |                          |
|          | _____ Dollars   |      |          | \$ _____                | \$ _____                 |
|          | _____ Cents   |      |          |                         |                          |
| 856.3    | Casing or Liner 24";                                  | LF   | 40       |                         |                          |
|          | _____ Dollars   |      |          | \$ _____                | \$ _____                 |
|          | _____ Cents   |      |          |                         |                          |
| 11290.   | Pressure Relief Valve Assembly                        | EA   | 8        |                         |                          |
|          | _____ Dollars   |      |          | \$ _____                | \$ _____                 |
|          | _____ Cents   |      |          |                         |                          |

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| Item No. | Description<br>(Unit Price to be written in words) | Unit | Quantity | Unit Price<br>(Figures) | Total Price<br>(Figures) |
|----------|--|------|----------|-------------------------|--------------------------|
|----------|--|------|----------|-------------------------|--------------------------|

|        |  |    |   |         |                   |
|--------|--|----|---|---------|-------------------|
| 11295. | Hidden Springs Main Line<br>Pressure Reducing Valve Assembly | EA | 2 |         |                   |
|        |  |    |   | Dollars | \$ _____ \$ _____ |
|        |  |    |   | Cents   | _____             |

**LINE ITEM "A"**  
**SUB-TOTAL BASE BID** \$ \_\_\_\_\_

|      |   |    |   |         |                  |
|------|---|----|---|---------|------------------|
| 100. | Mobilization<br>Percent of the Line Item "A" Subtotal Base Bid Written In Words | LS | 1 |         |                  |
|      |   |    |   | Percent | \$ XXXX \$ _____ |
|      | (Maximum of 10% of the <u>Line Item "A"</u> Sub-total Base Bid amount);         |    |   |         |                  |

|      |   |    |   |         |                  |
|------|---|----|---|---------|------------------|
| 101. | Preparing Right of Way<br>Percent of the Line Item "A" Subtotal Base Bid Written In Words | LS | 1 |         |                  |
|      |   |    |   | Percent | \$ XXXX \$ _____ |
|      | (Maximum of 5% of the <u>Line Item "A"</u> Sub-total Base Bid amount);                    |    |   |         |                  |

**MOBILIZATION AND PREPARING ROW**  
**SUB-TOTAL** \$ \_\_\_\_\_

Mobilization lump sum bid shall be limited to a maximum 10% of the Line Item "A" Sub-total Base Bid amount. Preparing Right-of-Way lump sum bid shall be limited to a maximum of 5% of the Line Item "A" Sub-total Base Bid amount. The Line Item "A" Sub-total base bid is defined as all bid items **EXCLUDING** Item 100, Mobilization and Item 101, Preparing Right-of-Way. **In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Preparation of ROW bid items the written percentage will govern. If the percentage written 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.**

TOTAL BID AMOUNT (Line Item "A", Mobilization,  
& Preparing Right of Way)

\$ \_\_\_\_\_

\_\_\_\_\_ DOLLARS AND

\_\_\_\_\_ CENTS

\_\_\_\_\_  
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.

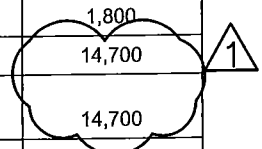
The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within 240 calendar days from notice to proceed date. **The Bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the Project if not completed on time.**

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

S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRGS\_WATERLINE-W.O. NO. 10\000\DRAWINGS\PLANS\CIVIL\100069100\_IND.DWG PLOT DATE: 3/12/2013 3:45 PM PLOT BY: AVICUNA

WATER QUANTITIES

| ITEM # | DESCRIPTION   | UNITS | QUANTITY |
|--------|---|-------|----------|
| 100    | MOBILIZATION  | LS    | 1        |
| 101    | PREPARING RIGHT OF WAY  | LS    | 1        |
| 205.2  | HOT MIX ASPHALTIC PVMT TYPE B (12" COMP DEPTH)                                  | SY    | 1,800    |
| 205.4  | HOT MIX ASPHALTIC PVMT TYPE D (2" COMP DEPTH)                                   | SY    | 14,700   |
| 208.1  | SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" COMP DEPTH) | SY    | 14,700   |
| 500.1  | CONCRETE CURB   | LF    | 38       |
| 505.1  | CONCRETE RIPRAP (9" THICK)  | SY    | 7        |
| 515    | TOP SOIL (4")   | CY    | 36       |
| 516.1  | BERMUDA SODDING   | SY    | 322      |
| 530.1  | BARRICADES, SIGNS AND TRAFFIC HANDLING  | LS    | 1        |
| 540.9  | TEMPORARY SEDIMENT CONTROL FENCE  | LF    | 1,170    |
| 540.1  | CURB INLET GRAVEL FILTERS   | LF    | 60       |
| 550    | TRENCH EXCAVATION SAFETY PROTECTION   | LF    | 4,299    |
| 818    | 6" PVC WATERLINE  | LF    | 221      |
| 818    | 8" PVC WATERLINE  | LF    | 1,205    |
| 818    | 12" PVC WATERLINE   | LF    | 2,843    |
| 824    | RELAY 3/4" SHORT SERVICE  | EA    | 7        |
| 824    | RELAY 3/4" LONG SERVICE   | EA    | 8        |
| 824    | RELAY DUAL 1" SHORT SERVICE   | EA    | 4        |
| 824    | RELAY 2" LONG SERVICE   | EA    | 1        |
| 828    | 6" GATE VALVES  | EA    | 5        |
| 828    | 8" GATE VALVES  | EA    | 1        |
| 828    | 12" GATE VALVES   | EA    | 7        |
| 834    | FIRE HYDRANTS   | EA    | 5        |
| 836    | PIPE FITTINGS, ALL SIZES AND TYPES  | TON   | 6.35     |
| 840    | 6" WATER TIE-INS  | EA    | 6        |
| 840    | 12" WATER TIE-INS   | EA    | 1        |
| 841    | HYDROSTATIC TESTING   | EA    | 6        |
| 844    | 2" BLOWOFF, TEMPORARY   | EA    | 6        |
| 846    | 1" AIR RELEASE ASSEMBLIES   | EA    | 4        |
| 856.1  | JACKING, BORING, OR TUNNELING 24"   | LF    | 40       |
| 856.2  | 8" CARRIER PIPE FOR JACKING, BORING, TUNNELING                                  | LF    | 40       |
| 856.3  | CASING OR LINER 24"   | LF    | 40       |
| 11290  | PRESSURE RELIEF VALVE ASSEMBLY  | EA    | 8        |
| 11295  | HIDDEN SPRINGS MAIN LINE PRESSURE REDUCING VALVE ASSEMBLY                       | EA    | 2        |



**LNV**  
 engineers | architects | contractors  
 8918 TESORO DR., STE. 401 PH. (210) 822-2232  
 SAN ANTONIO, TEXAS 78217 FAX (210) 822-4032  
 TBPE FIRM NO. F-366 WWW.LNVINC.COM

STEVEN H. THAI  
 113332  
 LICENSED PROFESSIONAL ENGINEER  
 3-12-13

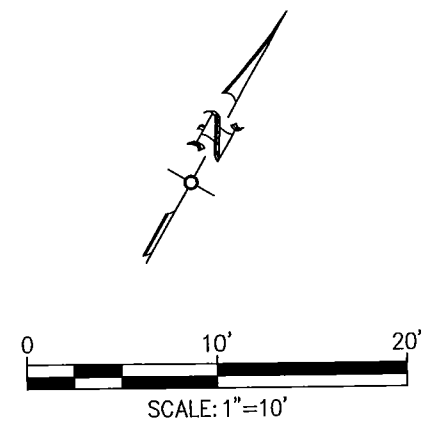
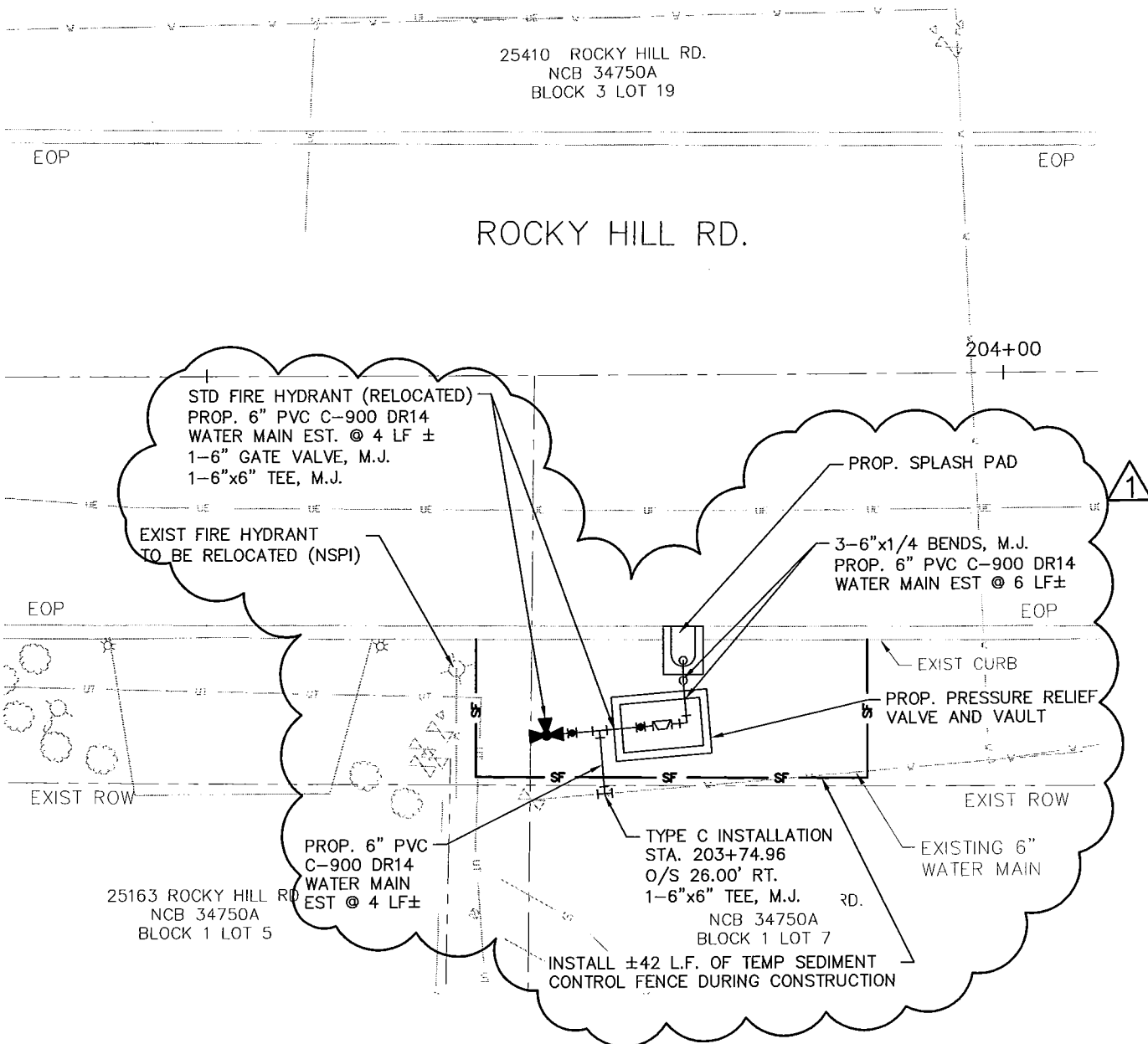
|                |          |       |               |
|----------------|----------|-------|---------------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13       |
| NO.            | REVISION | DRAWN | APPROVED DATE |

SAN ANTONIO WATER SYSTEM

HIDDEN SPRINGS WATER PROJECT  
**WATER LINE QUANTITIES**  
 SAN ANTONIO, TEXAS

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

|           |                 |       |
|-----------|-----------------|-------|
| MAP NO.   | SCALE: N.T.S.   | SHEET |
| SECT. NO. |                 | G2    |
| DR. CK.   | JOB NO. 11-7003 |       |

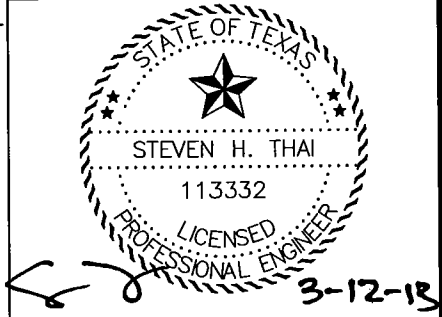


**NOTE:**  
EXISTING FIRE HYDRANT SHALL BE CUT AND CAPPED AT THE NEAREST UNDERGROUND ELBOW FITTING FOR REMOVAL AND RELOCATION. (NSPI)

**LNV**  
engineers | architects | contractors  
8918 TESORO DR., STE. 401  
SAN ANTONIO, TEXAS 78217  
PH. (210) 822-2232  
FAX (210) 822-4032  
WWW.LNVINC.COM

**LEGEND**

- PROP WATER MAIN ON OTHER SHEET
- PROP WATER MAIN
- NEW METER BOX
- EXIST WATER VALVE
- EXIST WATER METER
- UTILITY POLE LINE
- EXIST. WATER MAIN
- GAS
- SANITARY SEWER
- OH ELEC/OH TEL
- BURIED ELFC
- BURIED TEL
- CABLE TV
- DUAL BRANCH SERV.
- NEW UNMETERED SERVICE:
  - 3/4" SINGLE
  - 1" DUAL
- SERVICE RECONNECT:
  - 3/4"
  - 1" OR LARGER
- SERVICE RELAY:
  - 3/4"
  - 1" OR LARGER
- SERVICE RELOCATE:
  - 3/4"
  - 1" OR LARGER
- RELOCATE METER AND NEW METER BOX NEW SERVICE:
  - 3/4"
  - 1" OR LARGER
- REDUCER
- GAS CROSSING
- AIR RELEASE ASSEMBLY
- MILL AND OVERLAY
- PROP CURB INLET GRAVEL FILTERS
- TEMP SEDIMENT CONTROL FENCE



|                |          |       |          |
|----------------|----------|-------|----------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13  |
| NO.            | REVISION | DRAWN | APPROVED |
| REVISION       |          |       |          |

**SAN ANTONIO WATER SYSTEM**

HIDDEN SPRINGS WATER PROJECT

**PRESSURE RELIEF VALVE  
TYPE C - LOCATION #1**

SHEET 1 OF 8

SAN ANTONIO, TEXAS

|                 |               |              |                 |
|-----------------|---------------|--------------|-----------------|
| DEVELOPER: SAWS |               | BUDGET PROJ. |                 |
| SUBMITTED       |               | APPROVED     |                 |
| MAP NO.         | SCALE: 1"=10' | SHEET W19    |                 |
| SECT. NO.       | DR.           | CK.          | JOB NO. 11-7003 |

**S.A.W.S NOTE:**  
LOCATION AND DEPTH OF EXISTING WATER MAINS AND SERVICES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATION AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO BEGINNING CONSTRUCTION BY CALLING THE SAWS WATER LINE LOCATOR AT 233-2010. THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING WATER FACILITIES AND SHOULD THEY BE DAMAGED DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR WILL BE REQUIRED TO REIMBURSE THE SAN ANTONIO WATER SYSTEM FOR THE TOTAL COST TO REPAIR OR REPLACE THE DAMAGED FACILITIES.

**CPS ENERGY NOTES:**  
CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE PROJECT MUST BE GAS LEAK SURVEYED PRIOR TO THE FINAL OVERLAY. ALLOW 10 WORKING DAYS FOR THE LEAK SURVEY AND ALLOW AN ADDITIONAL 10 WORKING DAYS FOR VALVE ADJUSTMENTS. THE CONTRACTOR MUST COORDINATE THE SURVEY AND THE ADJUSTMENTS THROUGH THE PROJECT INSPECTOR.

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

**AT&T NOTE:**  
"THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE, CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION."

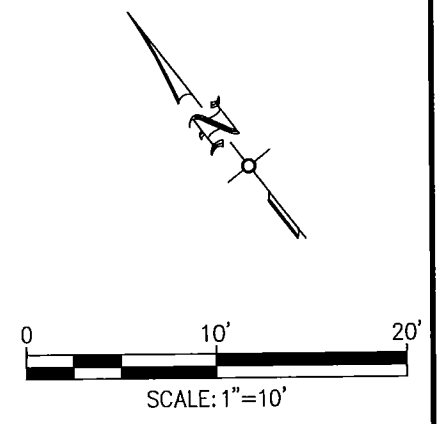
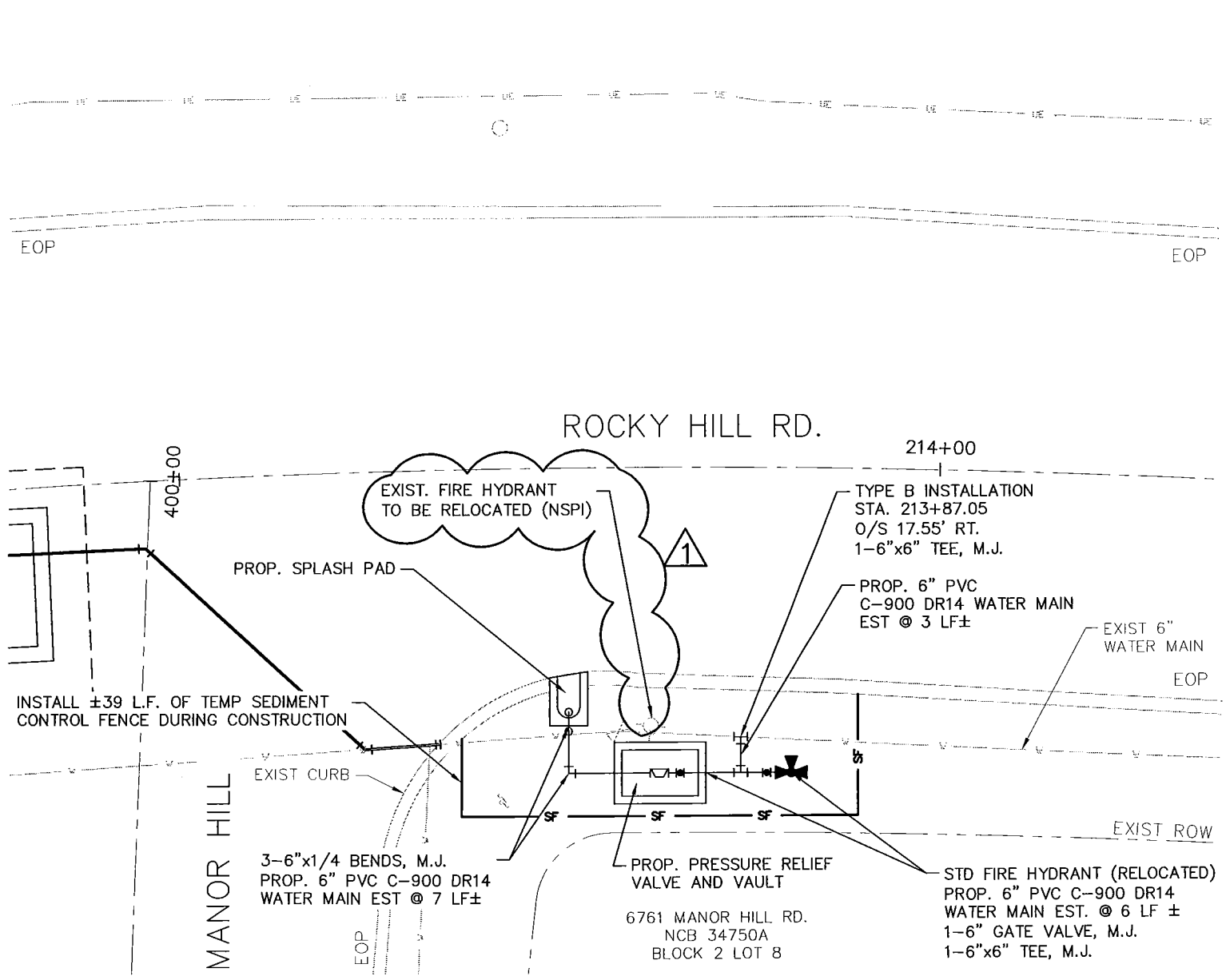
**TIME WARNER NOTES:**  
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**TRENCH EXCAVATION SAFETY PROTECTION:**  
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL/DESIGN/GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. 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.

THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRINGS\_WATERLINE-W.O. NO. 10\000\DRAWINGS\PLANS\CIVIL\100069100\_PRY\_LOC.DWG PLOT DATE: 3/12/2013 4:29 PM PLOT BY: AVICUNA

S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRINGS\_WATERLINE-W.O. NO. 10\000\DRAWINGS\PLANS\CIVIL\100069100\_Prv\_LOC.DWG PLOT DATE: 3/12/2013 4:30 PM PLOT BY: AVICUNA

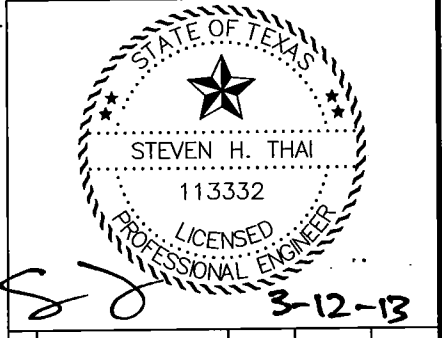


**NOTE:**  
EXISTING FIRE HYDRANT SHALL BE CUT AND CAPPED AT THE NEAREST UNDERGROUND ELBOW FITTING FOR REMOVAL AND RELOCATION. (NSPI)

**LNV**  
engineers | architects | contractors  
8918 TESSORO DR., STE. 401  
SAN ANTONIO, TEXAS 78217  
PH. (210) 822-2232  
FAX (210) 822-4032  
WWW.LNVINC.COM

**LEGEND**

- PROP WATER MAIN ON OTHER SHEET
- PROP. WATER MAIN
- NEW METER BOX
- EXIST WATER VALVE
- EXIST WATER METER
- UTILITY POLE LINE
- EXIST. WATER MAIN
- GAS
- SANITARY SEWER
- OH ELEC/OH TEL
- BURIED ELEC
- BURIED TEL
- CABLE TV
- DUAL BRANCH SERV.
- NEW UNMETERED SERVICE:
  - 3/4" SINGLE
  - 1" DUAL
- SERVICE RECONNECT:
  - 3/4"
  - 1" OR LARGER
- SERVICE RELAY:
  - 3/4"
  - 1" OR LARGER
- SERVICE RELOCATE:
  - 3/4"
  - 1" OR LARGER
- RELOCATE METER AND NEW METER BOX
- NEW SERVICE:
  - 3/4"
  - 1" OR LARGER
- REDUCER
- GAS CROSSING
- AIR RELEASE ASSEMBLY
- MILL AND OVERLAY
- PROP CURB INLET GRAVEL FILTERS
- TEMP SEDIMENT CONTROL FENCE



|                |          |       |          |
|----------------|----------|-------|----------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13  |
| NO.            | REVISION | DRAWN | APPROVED |

**SAWS**

**SAN ANTONIO WATER SYSTEM**

HIDDEN SPRINGS WATER PROJECT

**PRESSURE RELIEF VALVE TYPE B - LOCATION #2**

**SHEET 2 OF 8**

SAN ANTONIO, TEXAS

|                 |               |              |                 |
|-----------------|---------------|--------------|-----------------|
| DEVELOPER: SAWS |               | BUDGET PROJ. |                 |
| SUBMITTED       |               | APPROVED     |                 |
| MAP NO.         | SCALE: 1"=10' | SHEET W20    |                 |
| SECT. NO.       | DR.           | CK.          | JOB NO. 11-7003 |

**S.A.W.S NOTE:**  
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**CPS ENERGY NOTES:**  
CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE PROJECT MUST BE GAS LEAK SURVEYED PRIOR TO THE FINAL OVERLAY. ALLOW 10 WORKING DAYS FOR THE LEAK SURVEY AND ALLOW AN ADDITIONAL 10 WORKING DAYS FOR VALVE ADJUSTMENTS. THE CONTRACTOR MUST COORDINATE THE SURVEY AND THE ADJUSTMENTS THROUGH THE PROJECT INSPECTOR.

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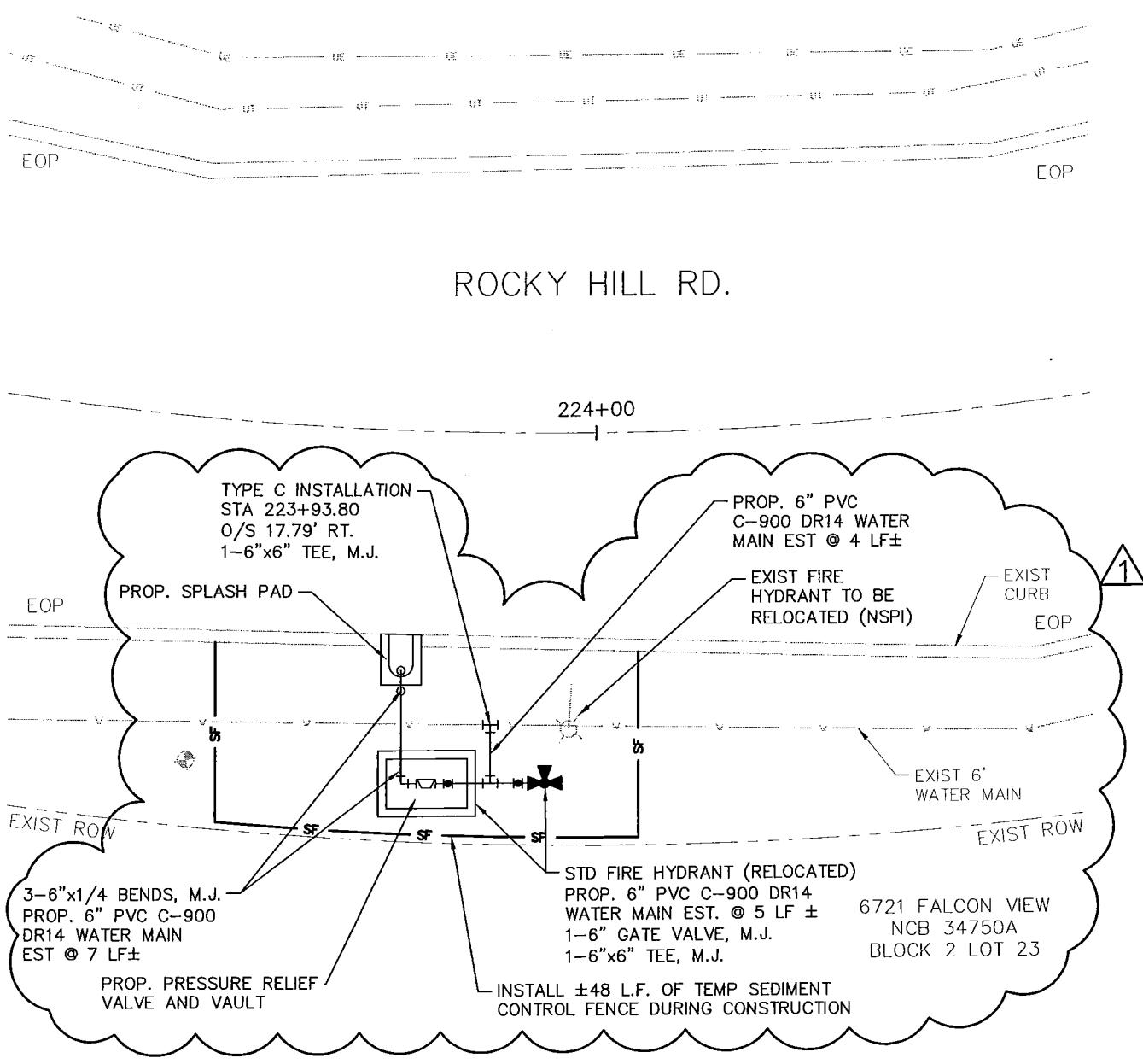
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**LNV**  
 engineers | architects | contractors  
 6918 TESORO DR., STE. 401 PH. (210) 822-2232  
 SAN ANTONIO, TEXAS 78217 FAX (210) 822-4032  
 TBPE FIRM NO. F-368 WWW.LNVINC.COM

**LEGEND**

|                                  |           |
|----------------------------------|-----------|
| PROP. WATER MAIN ON OTHER SHEET  | —         |
| PROP. WATER MAIN                 | —         |
| NEW METER BOX                    | ☒         |
| EXIST WATER VALVE                | ☒         |
| EXIST WATER METER                | ☒         |
| UTILITY POLE LINE                | *         |
| EXIST. WATER MAIN                | — W —     |
| GAS                              | — G —     |
| SANITARY SEWER                   | — WW —    |
| OH ELEC./OH TEL                  | — OE/OT — |
| BURIED ELEC                      | — UE —    |
| BURIED TEL                       | — UGT —   |
| CABLE TV                         | — CBL —   |
| DUAL BRANCH SERV.                | —         |
| NEW UNMETERED SERVICE:           |           |
| 3/4" SINGLE                      | —         |
| 1" DUAL                          | —         |
| SERVICE RECONNECT:               |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELAY:                   |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELOCATE:                |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| RELOCATE METER AND NEW METER BOX | ▷         |
| NEW SERVICE:                     |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| REDUCER                          | ▽         |
| GAS CROSSING                     | ☁         |
| AIR RELEASE ASSEMBLY             | ↑         |
| MILL AND OVERLAY                 | ▨         |
| PROP CURB INLET GRAVEL FILTERS   | ○         |
| TEMP SEDIMENT CONTROL FENCE      | —SF—      |

STATE OF TEXAS  
 STEVEN H. THAI  
 113332  
 LICENSED PROFESSIONAL ENGINEER  
 3-12-13

|                |          |       |          |
|----------------|----------|-------|----------|
| ADDENDUM NO. 2 | AWJ      | SHT   | 3/13/13  |
| NO.            | REVISION | DRAWN | APPROVED |
| REVISION       |          |       |          |

SAN ANTONIO WATER SYSTEM  
 HIDDEN SPRINGS WATER PROJECT

PRESSURE RELIEF VALVE  
 TYPE C - LOCATION #3  
 SHEET 3 OF 8  
 SAN ANTONIO, TEXAS

|                 |               |                 |
|-----------------|---------------|-----------------|
| DEVELOPER: SAWS | BUDGET PROJ.  |                 |
| SUBMITTED       | APPROVED      |                 |
| MAP NO.         | SCALE: 1"=10' | SHEET           |
| SECT. NO.       |               | W21             |
| DR.             | CK.           | JOB NO. 11-7003 |

**S.A.W.S. NOTE:**  
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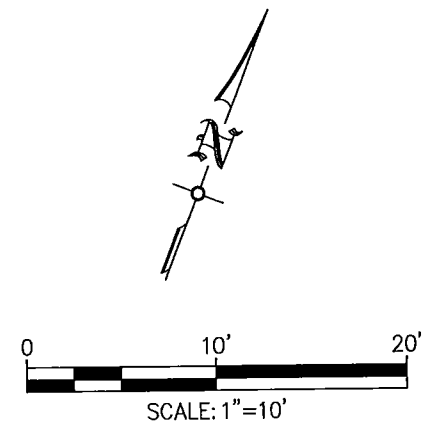
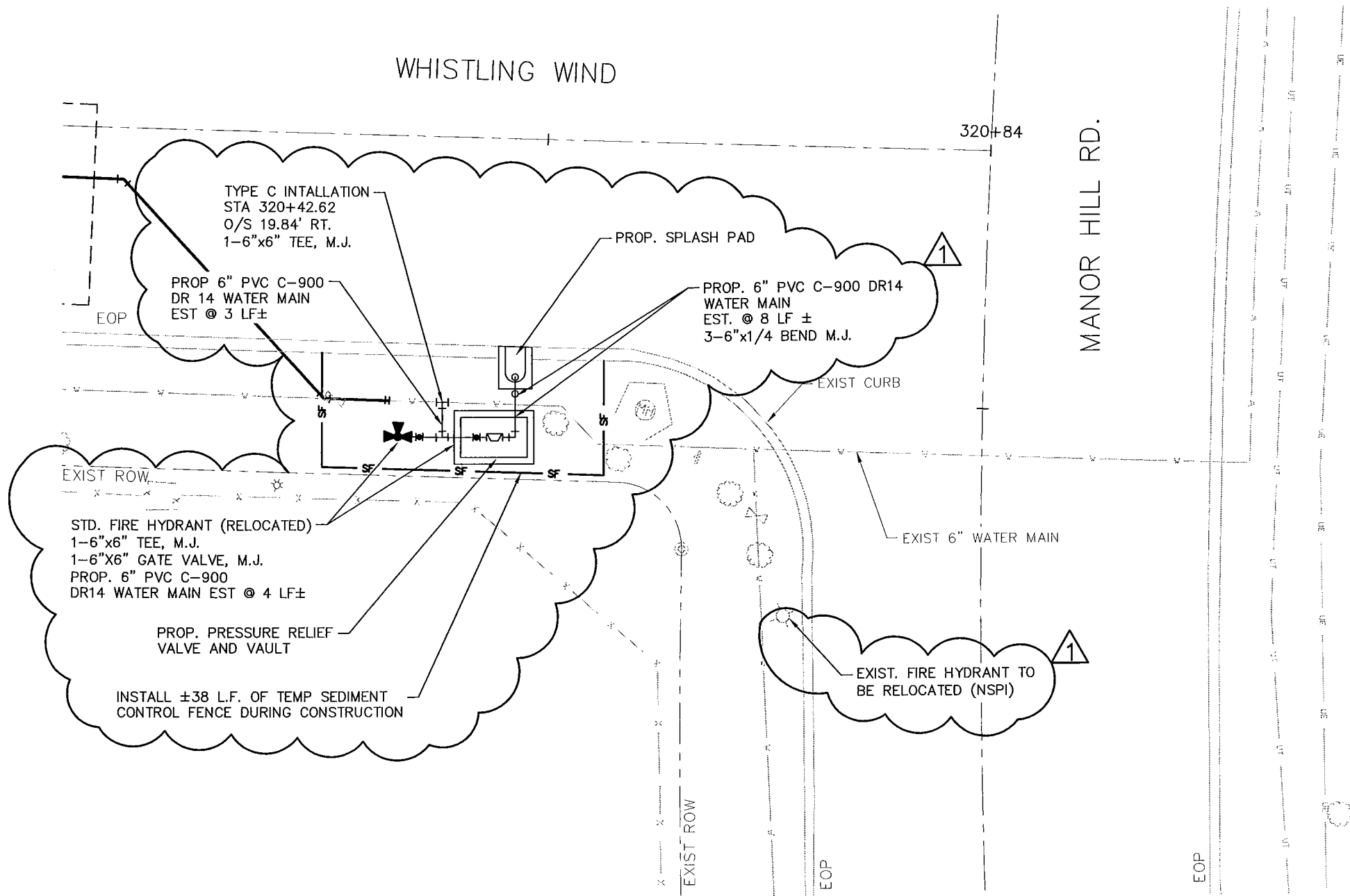
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S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRINGS\_WATERLINE-W.D. NO. 10\000 DRAWINGS\PLANS\CIVIL\100069100\_Prv\_LOC.DWG PLOT DATE: 3/12/2013 4:30 PM PLOT BY: AVCUNA

S:\PROJECTS\SAWS\10000\DRAWINGS\PLANS\CIVIL\100069100\_PRY\_LOC.DWG PLOT DATE: 3/12/2013 4:30 PM PLOT BY: AVICUNA



6821 MANOR HILL RD.  
NCB 34750A  
BLOCK 2 LOT 6

**NOTE:**  
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**LNV**  
engineers | architects | contractors  
8918 TESORO DR., STE. 401  
SAN ANTONIO, TEXAS 78217  
PH: (210) 822-2232  
FAX: (210) 822-4032  
WWW.LNVINC.COM

**LEGEND**

|                                  |           |
|----------------------------------|-----------|
| PROP WATER MAIN ON OTHER SHEET   |           |
| PROP. WATER MAIN                 |           |
| NEW METER BOX                    |           |
| EXIST WATER VALVE                |           |
| EXIST WATER METER                |           |
| UTILITY POLE LINE                |           |
| EXIST. WATER MAIN                | — W —     |
| GAS                              | — G —     |
| SANITARY SEWER                   | — WW —    |
| OH ELEC/OH TEL                   | — OE/OT — |
| BURIED ELEC                      | — UE —    |
| BURIED TEL                       | — UGT —   |
| CABLE TV                         | — CBL —   |
| DUAL BRANCH SERV.                |           |
| NEW UNMETERED SERVICE:           |           |
| 3/4" SINGLE                      |           |
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| 3/4"                             |           |
| 1" OR LARGER                     |           |
| SERVICE RELOCATE:                |           |
| 3/4"                             |           |
| 1" OR LARGER                     |           |
| RELOCATE METER AND NEW METER BOX |           |
| NEW SERVICE:                     |           |
| 3/4"                             |           |
| 1" OR LARGER                     |           |
| REDUCER                          |           |
| GAS CROSSING                     |           |
| AIR RELEASE ASSEMBLY             |           |
| MILL AND OVERLAY                 |           |
| PROP CURB INLET GRAVEL FILTERS   |           |
| TEMP SEDIMENT CONTROL FENCE      | — SF —    |

STATE OF TEXAS  
STEVEN H. THAI  
113332  
LICENSED PROFESSIONAL ENGINEER  
3-12-13

|                |          |       |          |
|----------------|----------|-------|----------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13  |
| NO.            | REVISION | DRAWN | APPROVED |
| REVISION       |          |       |          |

**SAWS**  
SAN ANTONIO WATER SYSTEM  
HIDDEN SPRINGS WATER PROJECT  
PRESSURE RELIEF VALVE  
TYPE C - LOCATION #4  
SHEET 4 OF 8  
SAN ANTONIO, TEXAS

|                 |               |                 |
|-----------------|---------------|-----------------|
| DEVELOPER: SAWS | BUDGET PROJ.  |                 |
| SUBMITTED       |               |                 |
| APPROVED        |               |                 |
| MAP NO.         | SCALE: 1"=10' | SHEET           |
| SECT. NO.       |               | W22             |
| DR.             | CK.           | JOB NO. 11-7003 |

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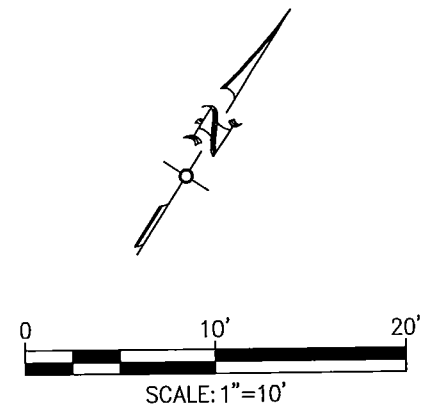
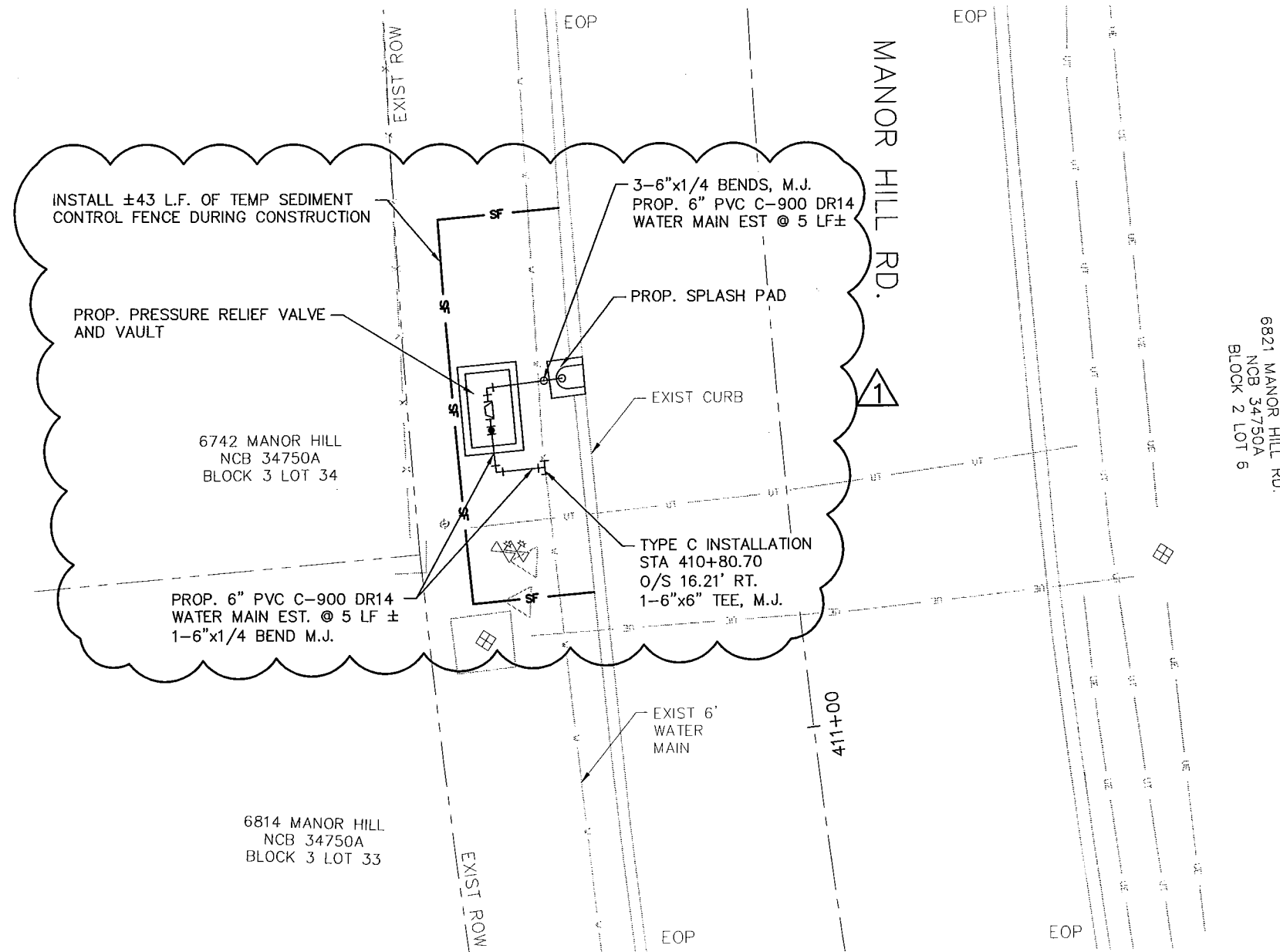
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S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRGS\_WATERLINE-WO. NO. 10\000\DRAWINGS\PLANS\CIVIL\100069100\_PRV\_LOC.DWG PLOT DATE: 3/12/2013 4:30 PM PLOT BY: AVCJUNA



**LNV**  
 engineers | architects | contractors  
 8918 TESORO DR., STE. 401  
 SAN ANTONIO, TEXAS 78217  
 TBPE FIRM NO. F-368  
 PH. (210) 822-2232  
 FAX (210) 822-4032  
 WWW.LNVINC.COM

STATE OF TEXAS  
 STEVEN H. THAI  
 113332  
 LICENSED PROFESSIONAL ENGINEER  
 3-12-13

**LEGEND**

|                                  |           |
|----------------------------------|-----------|
| PROP. WATER MAIN ON OTHER SHEET  | —         |
| PROP. WATER MAIN                 | —         |
| NEW METER BOX                    | ☒         |
| EXIST. WATER VALVE               | ⊗         |
| EXIST. WATER METER               | ⊕         |
| UTILITY POLE LINE                | *         |
| EXIST. WATER MAIN                | — W —     |
| GAS                              | — G —     |
| SANITARY SEWER                   | — WW —    |
| OH ELEC/OH TEL                   | — OE/OT — |
| BURIED ELEC                      | — UE —    |
| BURIED TEL                       | — UGT —   |
| CABLE TV                         | — CBL —   |
| DUAL BRANCH SERV.                | ⌋         |
| NEW UNMETERED SERVICE:           |           |
| 3/4" SINGLE                      | —         |
| 1" DUAL                          | —         |
| SERVICE RECONNECT:               |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELAY:                   |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELOCATE:                |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| RELOCATE METER AND NEW METER BOX | ▷         |
| NEW SERVICE:                     |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| REDUCER                          | ▽         |
| GAS CROSSING                     | ☁         |
| AIR RELEASE ASSEMBLY             | ↑         |
| MILL AND OVERLAY                 | ▨         |
| PROP. CURB INLET                 | ○         |
| GRAVEL FILTERS                   | ○         |
| TEMP. SEDIMENT CONTROL FENCE     | —SF—      |

|                |          |       |          |
|----------------|----------|-------|----------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13  |
| NO.            | REVISION | DRAWN | APPROVED |
| REVISION       |          |       |          |

**SAN ANTONIO WATER SYSTEM**  
 HIDDEN SPRINGS WATER PROJECT  
**PRESSURE RELIEF VALVE**  
**TYPE C - LOCATION #5**  
**SHEET 5 OF 8**  
 SAN ANTONIO, TEXAS

|                    |
|--------------------|
| DEVELOPER: SAWS    |
| CONT. BUDGET PROJ. |
| SUBMITTED          |
| APPROVED           |
| MAP NO.            |
| SCALE: 1"=10'      |
| SHEET W23          |
| DR. CK.            |
| JOB NO. 11-7003    |

**S.A.W.S. NOTE:**  
 LOCATION AND DEPTH OF EXISTING WATER MAINS AND SERVICES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATION AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO BEGINNING CONSTRUCTION BY CALLING THE SAWS WATER LINE LOCATOR AT 233-2010. THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING WATER FACILITIES AND SHOULD THEY BE DAMAGED DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR WILL BE REQUIRED TO REIMBURSE THE SAN ANTONIO WATER SYSTEM FOR THE TOTAL COST TO REPAIR OR REPLACE THE DAMAGED FACILITIES.

**CPS ENERGY NOTES:**  
 CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE PROJECT MUST BE GAS LEAK SURVEYED PRIOR TO THE FINAL OVERLAY. ALLOW 10 WORKING DAYS FOR THE LEAK SURVEY AND ALLOW AN ADDITIONAL 10 WORKING DAYS FOR VALVE ADJUSTMENTS. THE CONTRACTOR MUST COORDINATE THE SURVEY AND THE ADJUSTMENTS THROUGH THE PROJECT INSPECTOR.

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

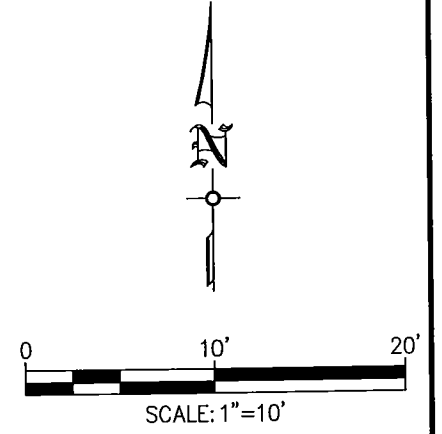
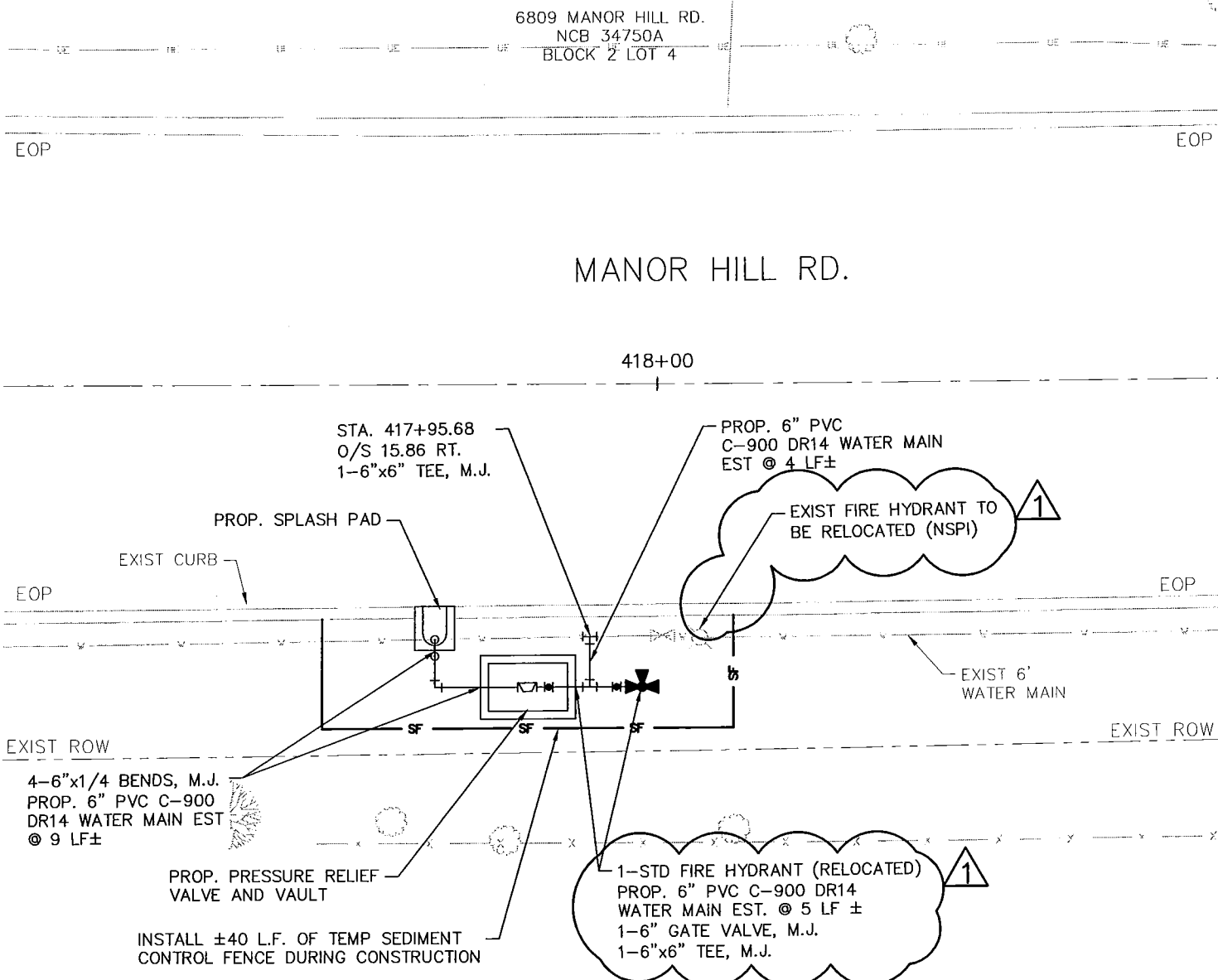
**AT&T NOTE:**  
 "THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE, CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION."

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 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 THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. 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.

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S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRGS\_WATERLINE-W.C. NO. 10\000\DRAWINGS\CIVIL\100069100\_PRY\_LOC.DWG PLOT DATE: 3/12/2013 4:30 PM PLOT BY: AVICUNA



NOTE:  
EXISTING FIRE HYDRANT SHALL BE  
CUT AND CAPPED AT THE NEAREST  
UNDERGROUND ELBOW FITTING FOR  
REMOVAL AND RELOCATION. (NSPI)

**LNV**  
engineers | architects | contractors

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PH. (210) 822-2232  
FAX (210) 822-4032  
WWW.LNVINC.COM

**LEGEND**

|                                  |           |
|----------------------------------|-----------|
| PROP WATER MAIN ON OTHER SHEET   | —         |
| PROP. WATER MAIN                 | —         |
| NEW METER BOX                    | ☒         |
| EXIST WATER VALVE                | ☒         |
| EXIST WATER METER                | ☒         |
| UTILITY POLE LINE                | *         |
| EXIST. WATER MAIN                | — W —     |
| GAS                              | — G —     |
| SANITARY SEWER                   | — WW —    |
| OH ELEC/OH TEL                   | — OE/OT — |
| BURIED ELEC                      | — UE —    |
| BURIED TEL                       | — UGT —   |
| CABLE TV                         | — CBL —   |
| DUAL BRANCH SERV.                | —         |
| NEW UNMETERED SERVICE:           |           |
| 3/4" SINGLE                      | —         |
| 1" DUAL                          | —         |
| SERVICE RECONNECT:               |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELAY:                   |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELOCATE:                |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| RELOCATE METER AND NEW METER BOX | ▷         |
| NEW SERVICE:                     |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| REDUCER                          | ▽         |
| GAS CROSSING                     | ☁         |
| AIR RELEASE ASSEMBLY             | ↑         |
| MILL AND OVERLAY                 | ▨         |
| PROP CURB INLET GRAVEL FILTERS   | ○         |
| TEMP SEDIMENT CONTROL FENCE      | —SF—      |

STATE OF TEXAS  
STEVEN H. THAI  
113332  
LICENSED PROFESSIONAL ENGINEER  
3-12-13

|                |          |       |          |
|----------------|----------|-------|----------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13  |
| NO.            | REVISION | DRAWN | APPROVED |
| REVISION       |          |       |          |

**SAWS**  
SAN ANTONIO WATER SYSTEM

HIDDEN SPRINGS WATER PROJECT  
**PRESSURE RELIEF VALVE  
TYPE B - LOCATION #6  
SHEET 6 OF 8**  
SAN ANTONIO, TEXAS

|                 |               |                 |
|-----------------|---------------|-----------------|
| DEVELOPER: SAWS | BUDGET PROJ.  |                 |
| SUBMITTED       | APPROVED      |                 |
| MAP NO.         | SCALE: 1"=10' | SHEET           |
| SECT. NO.       |               | W24             |
| DR.             | CK.           | JOB NO. 11-7003 |

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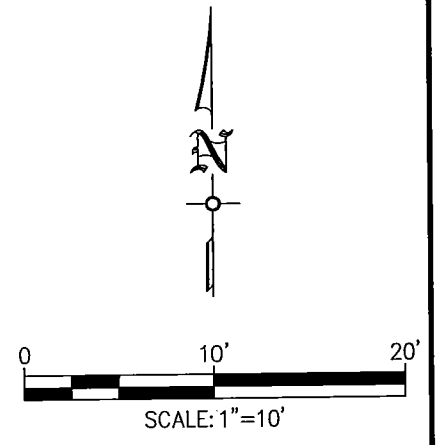
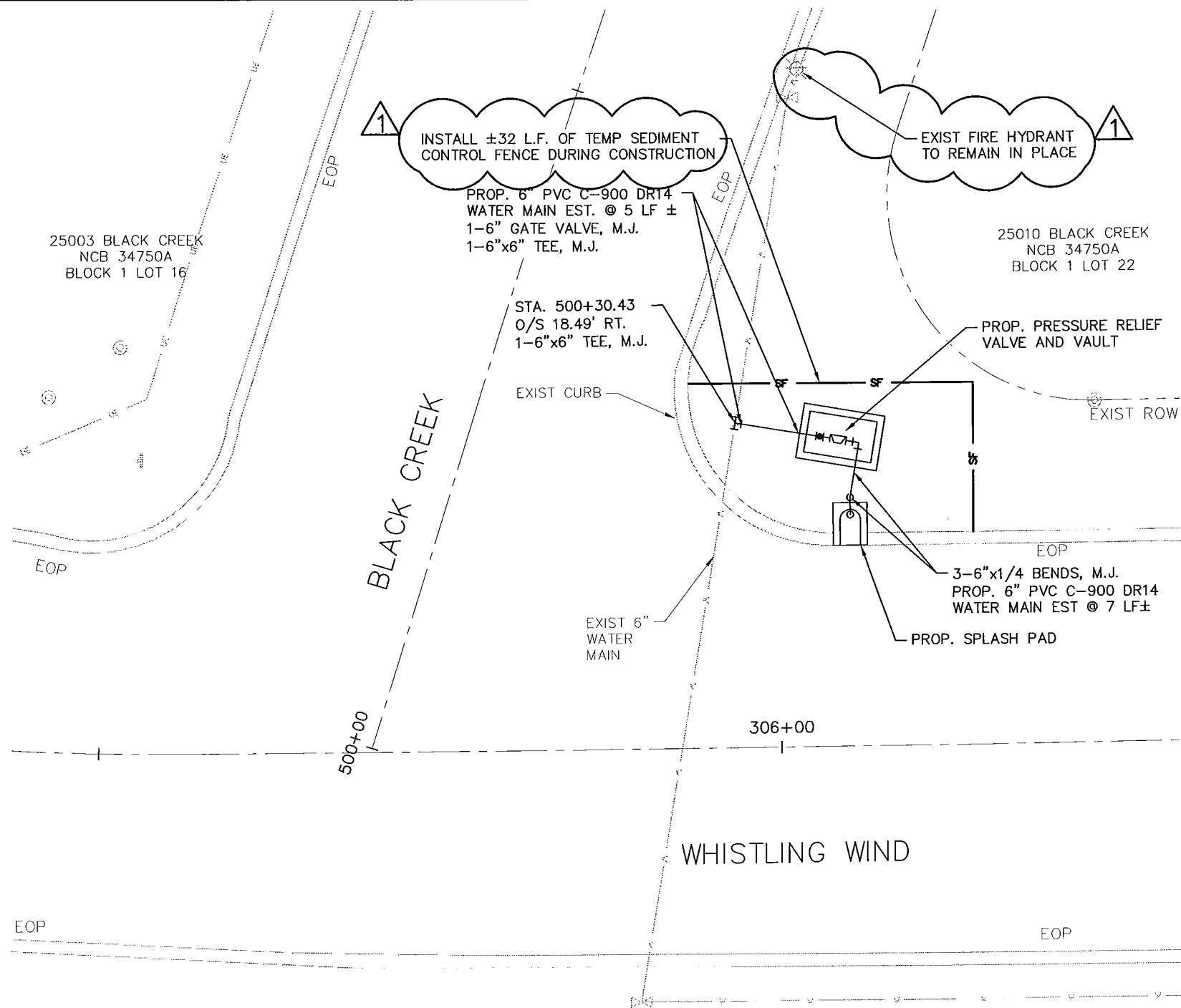
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S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRGS\_WATERLINE-W.O. NO. 10\000\DRAWINGS\PLANS\CIVIL\100069100\_PRY\_LOC.DWG PLOT DATE: 3/12/2013 4:30 PM PLOT BY: AVCUNA



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**LEGEND**

|                                  |  |
|----------------------------------|--|
| PROP WATER MAIN ON OTHER SHEET   |  |
| PROP. WATER MAIN                 |  |
| NEW METER BOX                    |  |
| EXIST WATER VALVE                |  |
| EXIST WATER METER                |  |
| UTILITY POLE LINE                |  |
| EXIST. WATER MAIN                |  |
| GAS                              |  |
| SANITARY SEWER                   |  |
| OH ELEC/OH TEL                   |  |
| BURIED ELEC                      |  |
| BURIED TEL                       |  |
| CABLE TV                         |  |
| DUAL BRANCH SERV.                |  |
| NEW UNMETERED SERVICE:           |  |
| 3/4" SINGLE                      |  |
| 1" DUAL                          |  |
| SERVICE RECONNECT:               |  |
| 3/4"                             |  |
| 1" OR LARGER                     |  |
| SERVICE RELAY:                   |  |
| 3/4"                             |  |
| 1" OR LARGER                     |  |
| SERVICE RELOCATE:                |  |
| 3/4"                             |  |
| 1" OR LARGER                     |  |
| RELOCATE METER AND NEW METER BOX |  |
| NEW SERVICE:                     |  |
| 3/4"                             |  |
| 1" OR LARGER                     |  |
| REDUCER                          |  |
| GAS CROSSING                     |  |
| AIR RELEASE ASSEMBLY             |  |
| MILL AND OVERLAY                 |  |
| PROP CURB INLET GRAVEL FILTERS   |  |
| TEMP SEDIMENT CONTROL FENCE      |  |

**LNv**  
engineers | architects | contractors

8918 TESORO DR., STE. 401  
SAN ANTONIO, TEXAS 78217  
TBPE FIRM NO. F-366

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STATE OF TEXAS  
STEVEN H. THAI  
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LICENSED PROFESSIONAL ENGINEER  
3-12-13

|                |          |       |          |
|----------------|----------|-------|----------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13  |
| NO.            | REVISION | DRAWN | APPROVED |
| REVISION       |          |       |          |

**SAN ANTONIO WATER SYSTEM**

HIDDEN SPRINGS WATER PROJECT

**PRESSURE RELIEF VALVE  
TYPE A - LOCATION #7**

**SHEET 7 OF 8**

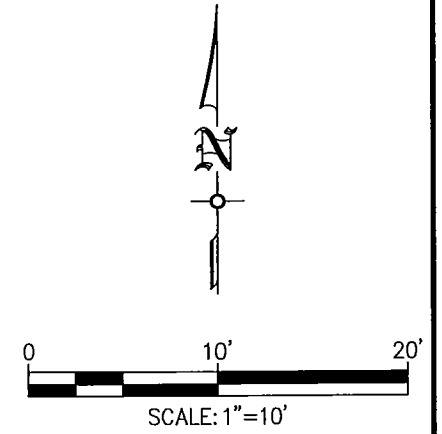
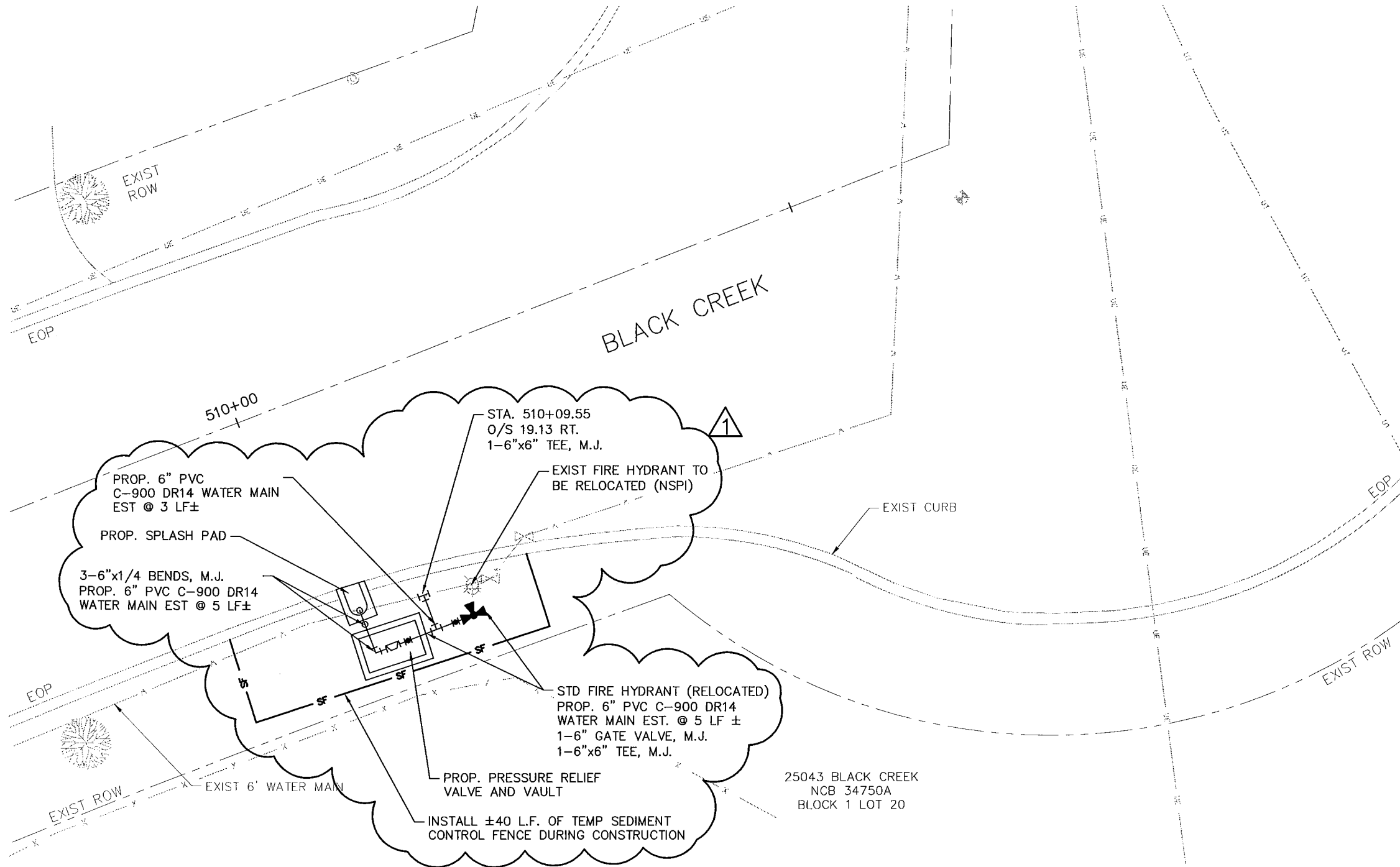
SAN ANTONIO, TEXAS

DEVELOPER: SAWS  
CONT. BUDGET PROJ.

SUBMITTED  
APPROVED

|           |               |                 |
|-----------|---------------|-----------------|
| MAP NO.   | SCALE: 1"=10' | SHEET           |
| SECT. NO. |               | W25             |
| DR.       | CK.           | JOB NO. 11-7003 |

S:\PROJECTS\SAWS\100069100\_HIDDEN\_SPRGS\_WATERLINE-W.O. NO. 10\000\DRAWINGS\PLANS\CIVIL\100069100\_PRIV\_LOC.DWG PLOT DATE: 3/12/2013 4:30 PM PLOT BY: AVICUNA



**NOTE:**  
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**LNV**  
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**LEGEND**

|                                  |           |
|----------------------------------|-----------|
| PROP. WATER MAIN ON OTHER SHEET  | —●—       |
| PROP. WATER MAIN                 | —●—       |
| NEW METER BOX                    | ☒         |
| EXIST WATER VALVE                | ⊗         |
| EXIST WATER METER                | ⊕         |
| UTILITY POLE LINE                | ●         |
| EXIST. WATER MAIN                | — W —     |
| GAS                              | — G —     |
| SANITARY SEWER                   | — WW —    |
| OH ELEC/OH TEL                   | — OE/OT — |
| BURIED ELEC                      | — UE —    |
| BURIED TEL                       | — UGT —   |
| CABLE TV                         | — CBL —   |
| DUAL BRANCH SERV.                | ☐         |
| NEW UNMETERED SERVICE:           |           |
| 3/4" SINGLE                      | —         |
| 1" DUAL                          | —         |
| SERVICE RECONNECT:               |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELAY:                   |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| SERVICE RELOCATE:                |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| RELOCATE METER AND NEW METER BOX | ▷         |
| NEW SERVICE:                     |           |
| 3/4"                             | —         |
| 1" OR LARGER                     | —         |
| REDUCER                          | ▽         |
| GAS CROSSING                     | ☼         |
| AIR RELEASE ASSEMBLY             | ↑         |
| MILL AND OVERLAY                 | ▨         |
| PROP CURB INLET GRAVEL FILTERS   | ○         |
| TEMP SEDIMENT CONTROL FENCE      | —SF—      |

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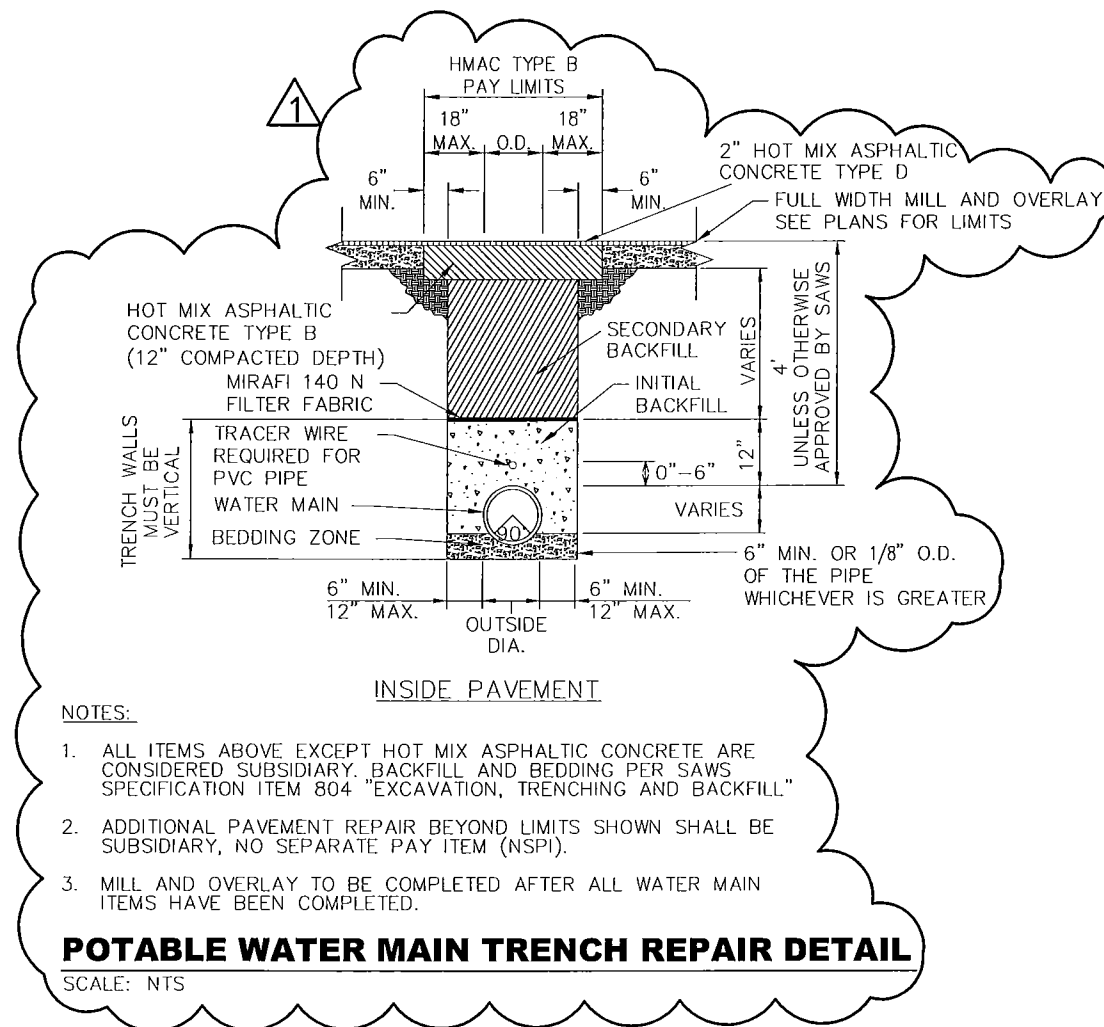
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CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

**TRENCH EXCAVATION 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 THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. 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.

THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

|                              |               |                 |          |
|------------------------------|---------------|-----------------|----------|
| ADDENDUM NO. 2               | AWJ           | SHT             | 3/13/13  |
| NO.                          | REVISION      | DRAWN           | APPROVED |
| REVISION                     |               |                 |          |
| SAN ANTONIO WATER SYSTEM     |               |                 |          |
| HIDDEN SPRINGS WATER PROJECT |               |                 |          |
| PRESSURE RELIEF VALVE        |               |                 |          |
| TYPE C - LOCATION #8         |               |                 |          |
| SHEET 8 OF 8                 |               |                 |          |
| SAN ANTONIO, TEXAS           |               |                 |          |
| DEVELOPER: SAWS              |               |                 |          |
| CONT. BUDGET PROJ.           |               |                 |          |
| SUBMITTED                    |               |                 |          |
| APPROVED                     |               |                 |          |
| MAP NO.                      | SCALE: 1"=10' | SHEET           |          |
| SECT. NO.                    |               | W26             |          |
| DR.                          | CK.           | JOB NO. 11-7003 |          |

S:\PROJECTS\SAWS\100069.100 HIDDEN SPRGS WATERLINE - W.O. NO. 10\000\DRAWINGS\PLANS\CIVIL\100069100\_WPDO1.DWG PLOT DATE: 3/12/2013 4:25 PM PLOT BY: AVICUNA



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STEVEN H. THAI  
113332  
PROFESSIONAL ENGINEER

3-2-13

|                |          |       |               |
|----------------|----------|-------|---------------|
| ADDENDUM NO. 2 | AVJ      | SHT   | 3/13/13       |
| NO.            | REVISION | DRAWN | APPROVED DATE |
| REVISION       |          |       |               |

**SAWS** SAN ANTONIO WATER SYSTEM

HIDDEN SPRINGS WATER PROJECT

**WATER PLAN DETAILS**

SAN ANTONIO, TEXAS

DEVELOPER: SAWS

CONT. BUDGET PROJ.

SUBMITTED

APPROVED

MAP NO. SCALE: N.T.S. SHEET

SECT. NO. DR. CK. JOB NO. 11-7003 W29A