



**Zigmont Rd 12-inch Water Main
Solicitation Number: CO-00536
Job No.: 21-7001**

**ADDENDUM 2
June 16, 2022**

To Bidder of Record:

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

RESPONSES TO QUESTIONS

1. Question - For unit prices, will the owner allow for price adjustments when material prices increase significantly during the performance of the contract, through no fault of the contractor? If so, what does the owner consider as "significant"?

Response

Owner will not allow for price adjustments.

2. Question - There is visible sandstone scattered throughout the job. Will SAWS add a bid item for rock excavation?

Response

In accordance with SAWS item 804.5.1.a. and General Conditions paragraph 5.17, all excavation is unclassified regardless of the nature of the material or method for removal. A separate bid item for rock excavation will not be provided. If the Contractor's elects to do so, a GDR is available for Contractor's review.

3. Question - Please verify the Asphalt Driveway is Type C Asphalt. Type D Asphalt is the normal material used for that.

Response

Per Bexar County General Note 4 (sheet G-3) Driveways are to be replaced in accordance with Bexar County Driveway Approach specification and Detail Sheet D-3. Bexar County Driveway Approach Specification calls for 1.5" HMAC, Type D for Asphalt Driveways. See the specification table of contents for a reference to the Bexar County Driveway Approach.

4. Question – Due to the scope of work and the sandstone out cropping's, will SAWS increase the number of days to 450 to complete this project.

Response

An additional 115 days has been added to the contract to account for material lead times and market volatility. This brings the total number of days incorporated into the project duration to account for material lead times and market volatility to 280 days. Construction duration has been increased to 480 calendar days.

5. Question - What are the working hours allowed for this project?

Response

Working hours are defined in section 5.18 of the general conditions.

6. Question - Has the County chosen their contractor who will be working on the low water crossing on this project? If yes, can SAWS furnish the name of the company that will be doing the work.

Response

The Bexar County Low Water Crossing Project has not been awarded. Therefore, a contractor has not been selected.

7. Question - Where does the cut & restore pavement for the long services running across the road pay for?

Response

In accordance with plan note on sheets C-9 – C-14, Long service laterals are to be bored/pushed under existing pavement to avoid pavement cuts across exiting road. Unit price for Long Service Relay should reflect this.

8. Question - I'm coming up with 6.7 Tons of Grey Iron Ductile Fittings using SAWS Flanged Fitting weights. The bid quantity is 10 Tons. Per spec 836.6 they should be Mechanical Joint Compact Fittings or Flanged Fittings. Are you using different weights for your 10 Tons?

Response

10 Tons reflects the quantity for 14" DIP fittings if HDPE is selected. Contractor will be paid for actual fittings installed. Quantity may be underrun if 12" DIP or PRV is selected.

9. Question - Will an owner's field office be required?

Response

An Owner's field office is not required.

10. Question - Where do the culvert removals pay for?

Response

Removal of culverts are paid for under Preparation of ROW item 101.

11. Question - Can bid items be added for the tree protection and pruning?

Response

Tree trimming and pruning are paid for under Preparation of ROW item 101.

12. Question - Can you please put this presentation on your site?

Response

The pre-bid meeting presentation will be posted on the project site.

13. Question - Where do the remove and relocate signs pay for? Some of these are electrical flood control signs.?

Response

Coordinate with the Bexar County for the removal and relocation of the flashing beacon signs. Clarification language has been added to Item 1115 - Summary of Work and a bid item with allowance has been added.

14. Question - If a utility company's removal of conflicting utilities causes delays to the critical path, will the Contractor be compensated for the delay in both time and additional costs?

Response

Contractor Claims will be reviewed in accordance with the Contract Documents, including but not limited to the General Conditions.

15. Question - Will the city compensate in both time and costs to the contractor for delays to the critical path caused by encountering undisclosed underground utilities?

Response

Contractor Claims will be reviewed in accordance with the Contract Documents, including but not limited to the General Conditions.

16. Question - This is a construction contract that requires the contractor to indemnify the Owner against its own negligence. The Texas Insurance Code Section 151.102 prohibits such an indemnity in certain circumstances. Will the City reform the indemnity to conform to Texas Insurance Code Section 151.102?

Response

SAWS will comply with all statutory requirements.

17. Question - Please confirm that Contractor's review of the Plans and Specifications is made in its capacity as a construction contractor (as opposed to a licensed design professional) and is not for the purpose of discovering design errors or omissions or ascertaining the project's design compliance with applicable laws or codes.

Response

Contractor is to review the Plans and Specification in accordance with the Contract Documents including but not limited to the General Conditions.

18. Question - Is the Contractor liable to the Owner for consequential damages?

Response

Yes, in accordance with the Contract Documents.

19. Question - Can the Contractor terminate the contract for lack of timely payment?

Response

Contractor's right to termination is as provided in the General Conditions, Article 4.6.1

20. Question - Item 505.1-Concrete Riprap-24"(COSA) 127 SY. This is grouted 24" Rock riprap not concrete riprap correct?

Response

This is grouted rock rip rap. Bid item has been updated to Item 432 Grouted Rip Rap, Protection 24" (TxDOT)

21. Question - Item 208.1 Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement-2" 217 SY is less than item 205.3 Hot Mix Asphaltic Pavement Type C-2" 324 SY. The plans call to remove and replace 2" compacted Type C Hot Mix Asphaltic Pavement. Shouldn't Item 205.3 Hot Mix Asphaltic Pavement Type C-2" be 217 SY as well?

Response

Pavement removed as part of the trench excavation is paid for under the water line bid item. Item 208.1 Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement-2" accounts for pavement removal outside the trench limits only. Pavement replacement bid item 205.3 Hot Mix Asphaltic Pavement Type C-2" quantity includes the trench limit and the area outside trench limits. Quantities shown are correct.

22. Question - The Trench Repair detail on sheet D-2 shows 6" compacted limestone base, geogrid fabric, and another 6" of compacted limestone base all under the 10" Asphalt Treated Base. Where does this pay for?

Response

Bid items have been added for Flexbase and geogrid fabric.

CHANGES TO THE SPECIFICATIONS

1. Bid Proposal - Replace entire document. The following items for were updated:
 - a. Calendar days updated
 - b. Added Bid item 1 Intermediate Demobilization and Remobilization
 - c. Added Bid item 3 Flex Base 6 inches compacted Depth
 - d. Added Bid item 8 Base Reinforcement
 - e. Revised Bid Item 13 Rip Rap
 - f. Added Bid item 14 Bedding Material (3")
 - g. Added Bid item SS1115 Flashing Beacon Sign Relocation
 - h. Revised Bid item 44 Preparing Right of Way
 - i. Revised Bid Item 45 Mobilization
2. Contract - Replace entire document.
3. Item 1115 – Summary of Work –
 - a. Replace paragraph 3.0 B. with the following:
"Schedule Restriction: Contractor shall complete work from 31+00 to 41+00 before July 15, 2023."
 - b. Insert the following at the end of the document:
"5.0 COORDINATION WITH BEXAR COUNTY
A. Coordinate with Bexar County to remove and relocate flashing beacon low water crossing signs. Contact Roy Alaquinez 210-335-6662 a minimum of two weeks in advance.

B. Cost for flashing beacon low water crossing sign relocation is to be paid for under an allowance included as part of bid. Contractor shall provide receipts to SAWS for reimbursement."

CHANGES TO THE PLANS

1. Sheet G-4 – Replace entire sheet.
2. Sheet C-1 – Replace the sheet quantity summary table with the following table:

SHEET QUANTITY SUMMARY: C-1			
SPEC	DESCRIPTION	UNITS	QNTY
103	Revegetation	SY	210.7
200.1	Flex Base - 6 inches compacted depth (COSA)	SY	188.8
203.1	Tack Coat (COSA)	GAL	29.7
205.3	Hot Mix Asphaltic Pavement Type C - 2 inches pavement thickness (COSA)	SY	297
206.1	Asphalt Treated Base - 10" compacted depth (COSA)	SY	94.4
208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement - 2 inches depth (COSA)	SY	202.6
234.1	Base Reinforcement (COSA)	SY	94.4
299	Flowable Fill (Low Strength)	CY	374.1
550	Trench Excavation Safety Protection	LF	824
812	Water Main Installation (12" DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	625
812	Water Main Installation (8" DIP - CL 350 or 8" PVC - DR 18 or 10" HDPE (DIPS) DR 11)	LF	51
828	Gate Valve - (12" - PVC or DIP) (14" - HDPE)	EA	1
834.1	Fire Hydrant	EA	1
836	Grey Iron and Ductile-Iron Fittings	TON	1.6825
841	Water and Reclaimed Water Main Hydrostatic Pressure Test	EA	1
844.7.2	Temporary Blow-off Assembly	EA	1
846	Combination Air Release Assembly - 2"	EA	2
SS859	Carrier Pipe for Open Cut Casing (12"DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	149
SS859	Steel Casing (24" Open Cut)	LF	149

3. Sheet C-2 – Replace entire sheet.

4. Sheet C-9 – Replace the sheet quantity summary table with the following table:

SHEET QUANTITY SUMMARY: C-9			
SPEC	DESCRIPTION	UNITS	QNTY
103	Revegetation	SY	243
200.1	Flex Base - 6 inches compacted depth (COSA)	SY	26.2
203.1	Tack Coat (COSA)	GAL	2.7
205.3	Hot Mix Asphaltic Pavement Type C - 2 inches pavement thickness (COSA)	SY	27
206.1	Asphalt Treated Base - 10" compacted depth (COSA)	SY	13.1
208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement - 2 inches depth (COSA)	SY	13.9
234.1	Base Reinforcement (COSA)	SY	13.1
299	Flowable Fill (Low Strength)	CY	10.7
503.4	Asphaltic Concrete Driveway (COSA)	SY	85
513.1	Removing and Relocating Mail Boxes (COSA)	EA	2
550	Trench Excavation Safety Protection	LF	850
812	Water Main Installation (12" DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	822
824	Water Service Supply Lines Service Relay - Long Service (1")	EA	1
824	Water Service Supply Lines Service Relay - Short Service (3/4")	EA	2
828	Gate Valve - (12" - PVC or DIP) (14" - HDPE)	EA	1
834.1	Fire Hydrant	EA	2
833	Existing Meter and New Meter Box Relocation (Meter Box Replacement)	EA	3
836	Grey Iron and Ductile-Iron Fittings	TON	1.525
841	Water and Reclaimed Water Main Hydrostatic Pressure Test	EA	1
846	Combination Air Release Assembly - 2"	EA	2
SS859	Carrier Pipe for Open Cut Casing (12" DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	28
SS859	Steel Casing (24" Open Cut)	LF	28

5. Sheet C-14 – Replace Note 7 with the following:
 “Remove and relocate sign as necessary to facilitate pipeline installation. Coordinate location with Bexar County (No separate pay).
6. Sheet D-2 – Add the following Note 4 to detail 2 Trench repair for water line under pavement or within 4’ of pavement:
 “4. Compacted Crushed Limestone base to be per Item 200 Flexbase, Material Type A, Aggregate, Grade 1.”

END OF ADDENDUM

This Addendum, including these five (5) pages, is eleven (11) pages with attachments in its entirety.
 Attachments:



Alisa Gruber 6/16/22

Alisa Gruber, P.E.
 CP&Y, Inc
 TBPE Firm Registration No. #F-1741

Project Name: ZIGMONT RD 12-INCH WATER MAIN PROJECT
Solicitation No.: CO-00536
Job No.: 21-7001

BID PROPOSAL

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

THE SAN ANTONIO WATER SYSTEM:

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

PLEASE SEE ATTACHED LIST OF BID ITEMS.

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following: **Addendum No(s)**. _____

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 480 calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

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

Statement on President's Executive Orders

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)? Yes No

Texas Government Code Chapter 2274 Verifications

- (1) Are you, Contractor, held or controlled by individuals who are citizens of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No
- (2) Are you, Contractor, held or controlled by a company or other entity, including a governmental entity, that is owned or controlled by citizens of or directly controlled by the government of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No
- (3) Are you, Contractor, headquartered in China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No

**SAN ANTONIO WATER SYSTEM
ZIGMONT ROAD 12 INCH WATER MAIN**

ITEM NO.	SPEC NO.	WATER PRICE PROPOSAL ITEMS	UNIT	QTY.	UNIT PRICE	TOTAL PRICE
1	102.1	Intermediate Demobilization and Remobilization	EA	1	\$	\$
2	103	Revegetation	SY	3442	\$	\$
3	200.1	Flex Base - 6 inches compacted depth (COSA)	SY	215	\$	\$
4	203.1	Tack Coat (COSA)	GAL	33	\$	\$
5	205.3	Hot Mix Asphaltic Pavement Type C - 2 inches pavement thickness (COSA)	SY	324	\$	\$
6	206.1	Asphalt Treated Base - 10" compacted depth (COSA)	SY	108	\$	\$
7	208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement - 2 inches depth (COSA)	SY	217	\$	\$
8	234.1	Base Reinforcement (COSA)	SY	108	\$	\$
9	299	Flowable Fill (Low Strength)	CY	693	\$	\$
10	404.1	15" Corrugated Metal Pipe with Safety End Treatment (COSA)	LF	52	\$	\$
11	404.1	18" Corrugated Metal Pipe with Safety End Treatment (COSA)	LF	84	\$	\$
12	404.1	24" Corrugated Metal Pipe with Safety End Treatment (COSA)	LF	140	\$	\$
13	432.1	Rip Rap (Protection, 24", Grouted) (TxDOT)	CY	85	\$	\$
14	432.2	Bedding Material (3") (TxDOT)	CY	11	\$	\$
15	503.4	Asphaltic Concrete Driveway (COSA)	SY	654	\$	\$
16	503.5	Gravel Driveway (COSA)	SY	53	\$	\$
17	503.1	Portland Cement Concrete Driveway (COSA)	SY	451	\$	\$
18	508.1	Relocating Wire Fence (COSA)	LF	1195	\$	\$
19	513.1	Removing and Relocating Mail Boxes (COSA)	EA	27	\$	\$
20	530.1	Barricades, Signs, and Traffic Handling (COSA)	LS	1	\$	\$
21	540.1	Temporary Erosion, Sedimentation and Water Pollution Prevention and Control (COSA)	LS	1	\$	\$
22	550	Trench Excavation Safety Protection	LF	11243	\$	\$
23	812	Water Main Installation (12" DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	10738	\$	\$
24	812	Water Main Installation (8" DIP - CL 350 or 8" PVC - DR 18 or 10" HDPE (DIPS) DR 11)	LF	51	\$	\$
25	824	Water Service Supply Lines Service Relay - Long Service (3/4")	EA	11	\$	\$
26	824	Water Service Supply Lines Service Relay - Long Service (1")	EA	4	\$	\$
27	824	Water Service Supply Lines Service Relay - Long Service (2")	EA	1	\$	\$
28	824	Water Service Supply Lines Service Relay - Short Service (3/4")	EA	12	\$	\$
29	824	Water Service Supply Lines Service Relay - Short Service (1")	EA	1	\$	\$
30	828	Gate Valve - (12" - PVC or DIP) (14" - HDPE)	EA	13	\$	\$
31	831	Cut-In Tee - 12"	EA	1	\$	\$
32	834.1	Fire Hydrant	EA	11	\$	\$
33	833	Existing Meter and New Meter Box Relocation (Meter Box Replacement)	EA	22	\$	\$
34	836	Grey Iron and Ductile-Iron Fittings	TON	10	\$	\$
35	841	Water and Reclaimed Water Main Hydrostatic Pressure Test	EA	12	\$	\$
36	844.7.2	Temporary Blow-off Assembly	EA	1	\$	\$
37	845	Gate (Galvanized Mesh, 16' X 50")	EA	1	\$	\$
38	846	Combination Air Release Assembly - 2"	EA	14	\$	\$
39	SS859	Carrier Pipe for Open Cut Casing (12"DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	455	\$	\$
40	SS859	Steel Casing (24" Open Cut)	LF	455	\$	\$
41	3000	Handling Asbestos Cement Pipe (Removal, Transportation, and Disposal)	LF	47	\$	\$
42	3001	Pole Bracing	ALW	1	\$ \$17,300.00	\$ \$17,300.00
43	SS1115	Flashing Beacon Sign Relocation	ALW	1	\$ \$36,000.00	\$ \$36,000.00
44	101	Preparing Right-of-Way (Max 5% of line items 1-41)	LS	1	\$	\$
45	100	Mobilization (Max 10% of line items 1-41)	LS	1	\$	\$
Total (Sum of Total Price line items 1-45) =					\$	

CONTRACT

«Contract_No»

21-7001

STATE OF TEXAS §
COUNTY OF BEXAR §

KNOW ALL MEN BY THESE PRESENTS:

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

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned to be made and performed by said First Party, (Owner), the said Second Party, (Contractor), hereby agrees with the First Party to commence and complete the construction of certain improvements in the amount of «Written Contract Amt» Dollars «Formatted Price», for the San Antonio Water System Job No(s). «Bid Opening Date», dated «Bid Opening Date», the same being designated as San Antonio Water System Project 21-7001; Zigmont Rd 12-inch water main project.

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

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

The Contractor hereby agrees to commence work under this Contract on the date indicated in the SAWS written Authorization to Proceed. Under no circumstances shall the work commence prior to the Contractor's receipt of SAWS issued, written Authorization to Proceed. Computation of Contract Time will begin on the construction start date as indicated on the written Authorization to Proceed. All work specified in these Contract Documents shall be completed within 480 calendar days from the construction start date indicated on the written Authorization to Proceed.

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

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

The following documents, together with this Contract, comprise the Agreement, and they are as fully a part thereof as if herein repeated in full:

- The Invitation to Bidders or Invitation for Competitive Sealed Proposals
- The Instructions to Bidders or Instructions to Respondents
- The Supplementary Instructions to Respondents (if applicable)
- The Bid Proposal or Price Proposal
- The Payment Bond
- The Performance Bond
- The General Conditions of the Contract
- The Special Conditions of the Contract
- The Supplemental Conditions of the Contract
- The Construction Specifications
- The Standard Drawings
- Addenda
- Change Orders
- Good Faith Effort Plan

The Plans, designated San Antonio Water System Project 21-7001; Zigmont Rd 12-inch water main project.

In witness thereof of the Parties of these presents have executed this Agreement in the year and day of first above written.

The individuals executing this Contract each represent and warrant to the other party that he/she has full authority to execute this Contract on behalf of his/her respective party.

**SAN ANTONIO WATER SYSTEM BOARD
OF TRUSTEES, OWNER**

By _____

*«Contracting_Director»
Director - Contracting*

Date: _____

By _____

Contractor

By _____

(Signature)

(Print/Type Name)

Title _____

Date: _____

REFERENCES: S:\4. ENVIRONMENTAL\SAWS2100125_Border_Beam.dwg BEAM - civil - 3/10/22
 S:\4. ENVIRONMENTAL\SAWS2100125_Border.dwg BORDER - civil - 3/10/22
 S:\4. ENVIRONMENTAL\SAWS2100125_LAYOUT.dwg LAYOUT - civil - 3/10/22

ITEM NO.	SPEC	DESCRIPTION	UNITS	QNTY	SHEET NUMBER													
					C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	C-14
1	102.1	Intermediate Demobilization and Remobilization	EA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	103	Revegetation	SY	3442	210.7	205.2	226	241.7	252.3	266.3	255.3	241.7	243	256	258.3	260.3	260.7	264.3
3	200.1	Flex Base - 6 inches compacted depth (COSA)	SY	215	188.8	0	0	0	0	0	0	0	26.2	0	0	0	0	0
4	203.1	Tack Coat (COSA)	GAL	33	29.7	0	0	0	0	0	0	0	2.7	0	0	0	0	0
5	205.3	Hot Mix Asphaltic Pavement Type C - 2 inches pavement thickness (COSA)	SY	324	297	0	0	0	0	0	0	0	27	0	0	0	0	0
6	206.1	Asphalt Treated Base - 10" compacted depth (COSA)	SY	108	94.4	0	0	0	0	0	0	0	13.1	0	0	0	0	0
7	208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement - 2 inches depth (COSA)	SY	217	202.6	0	0	0	0	0	0	0	13.9	0	0	0	0	0
8	234.1	Base Reinforcement (COSA)	SY	108	94.4	0	0	0	0	0	0	0	13.1	0	0	0	0	0
9	299	Flowable Fill (Low Strength)	CY	693	374.1	0	0	0	62.7	0	67.2	177.8	10.7	0	0	0	0	0
10	404.1	15" Corrugated Metal Pipe with Safety End Treatment (COSA)	LF	52	0	0	0	0	0	0	52	0	0	0	0	0	0	0
11	404.1	18" Corrugated Metal Pipe with Safety End Treatment (COSA)	LF	84	0	0	0	0	0	0	0	60	0	24	0	0	0	0
12	404.1	24" Corrugated Metal Pipe with Safety End Treatment (COSA)	LF	140	0	140	0	0	0	0	0	0	0	0	0	0	0	0
13	432.1	Rip Rap (Protection, 24", Grouted) (TxDOT)	CY	85	0	84.7	0	0	0	0	0	0	0	0	0	0	0	0
14	432.2	Bedding Material (3") (TxDOT)	CY	11	0	10.6	0	0	0	0	0	0	0	0	0	0	0	0
15	503.4	Asphaltic Concrete Driveway (COSA)	SY	654	0	48	129	154	109	0	86	0	85	43	0	0	0	0
16	503.5	Gravel Driveway (COSA)	SY	53	0	8	5	18	0	0	0	0	0	12	10	0	0	0
17	503.1	Portland Cement Concrete Driveway (COSA)	SY	451	0	67	264	0	0	0	0	46	0	0	0	38	36	0
18	508.1	Relocating Wire Fence (COSA)	LF	1195	0	0	0	94	0	514	587	0	0	0	0	0	0	0
19	513.1	Removing and Relocating Mail Boxes (COSA)	EA	27	0	0	0	0	0	0	0	0	2	8	4	6	6	1
20	530.1	Barricades, Signs, and Traffic Handling (COSA)	LS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	540.1	Temporary Erosion, Sedimentation and Water Pollution Prevention and Control (COSA)	LS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	550	Trench Excavation Safety Protection	LF	11243	824	800	800	800	800	800	800	750	850	800	800	800	800	819
23	812	Water Main Installation (12" DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	10738	625	683	800	800	639	800	800	750	822	800	800	800	800	819
24	812	Water Main Installation (8" DIP - CL 350 or 8" PVC - DR 18 or 10" HDPE (DIPS) DR 11)	LF	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0
25	824	Water Service Supply Lines Service Relay - Long Service (3/4")	EA	11	0	0	0	0	0	0	0	0	0	2	4	2	2	1
26	824	Water Service Supply Lines Service Relay - Long Service (1")	EA	4	0	0	0	0	0	0	0	0	1	0	0	2	1	0
27	824	Water Service Supply Lines Service Relay - Long Service (2")	EA	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
28	824	Water Service Supply Lines Service Relay - Short Service (3/4")	EA	12	0	0	0	0	0	0	0	0	2	2	2	3	3	0
29	824	Water Service Supply Lines Service Relay - Short Service (1")	EA	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
30	828	Gate Valve - (12" - PVC or DIP) (14" - HDPE)	EA	13	1	1	1	1	0	1	1	1	1	0	1	1	1	2
31	831	Cut-In Tee - 12"	EA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	834.1	Fire Hydrant	EA	11	1	0	0	0	0	0	0	1	2	1	2	1	1	2
33	833	Existing Meter and New Meter Box Relocation (Meter Box Replacement)	EA	22	0	0	0	0	0	0	0	0	3	3	5	4	6	1
34	836	Grey Iron and Ductile-Iron Fittings	TON	10	1.6825	1.375	0.55	0.2725	1.1	0.5475	0.27	0.2175	1.525	0.2175	0.435	0.2175	0.2175	1.063
35	841	Water and Reclaimed Water Main Hydrostatic Pressure Test	EA	12	1	1	1	1	1	0	1	1	1	1	1	0	1	1
36	844.7.2	Temporary Blow-off Assembly	EA	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
37	845	Gate (Galvanized Mesh, 16' X 50")	EA	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
38	846	Combination Air Release Assembly - 2"	EA	14	2	4	1	0	2	1	0	0	2	0	0	0	1	1
39	SS859	Carrier Pipe for Open Cut Casing (12"DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	455	149	117	0	0	161	0	0	0	28	0	0	0	0	0
40	SS859	Steel Casing (24" Open Cut)	LF	455	149	117	0	0	161	0	0	0	28	0	0	0	0	0
41	3000	Handling Asbestos Cement Pipe (Removal, Transportation, and Disposal)	LF	47	0	0	0	0	0	0	0	0	0	0	0	0	0	47
42	3001	Pole Bracing	ALW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	SS1115	Flashing Beacon Sign Relocation	ALW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	101	Preparing Right-of-Way	LS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	100	Mobilization	LS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

John Gruber

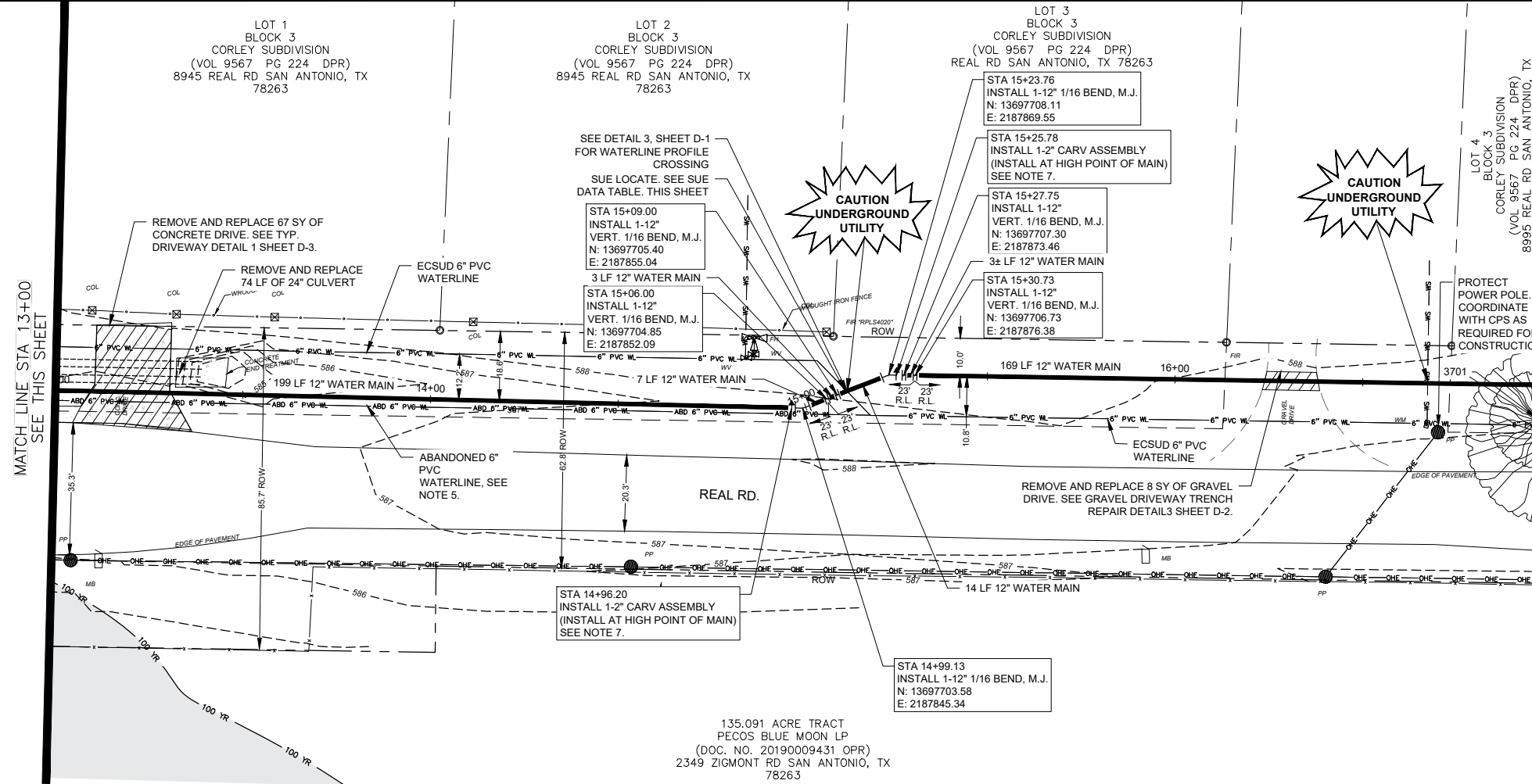
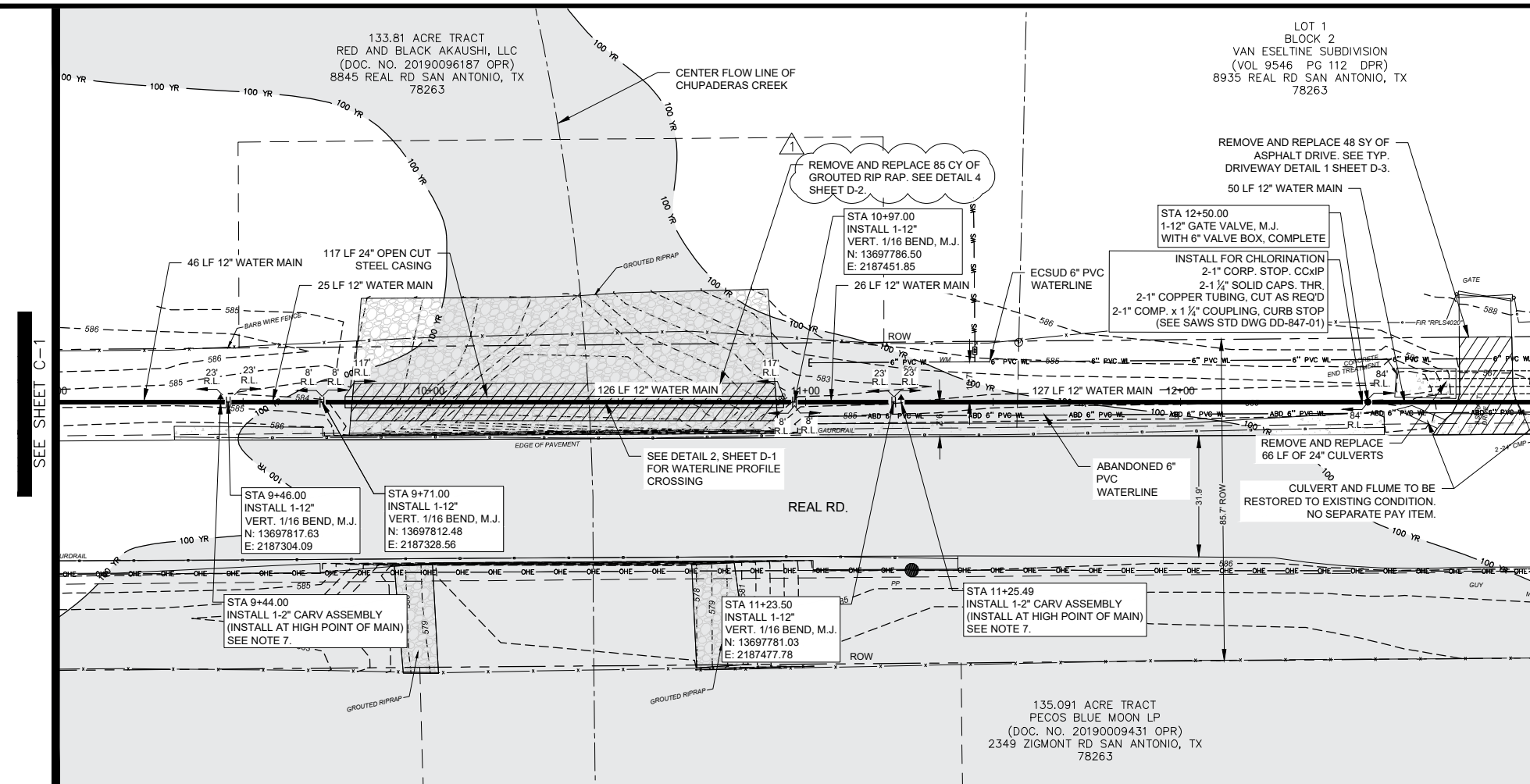


NO.	REVISION	BY	DATE
1	ADDENDUM NO. 2	KD	6-10-22

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF 1/2" NOT ONE INCH ON THIS SHEET, ADJUST SCALE.

SAN ANTONIO WATER SYSTEM
 ZIGMONT ROAD
 12" WATER LINE
 OVERALL QUANTITIES

Date:	APRIL 2022
Designed:	A. GRUBER, PE
Drawn:	K. KOLLARS
Reviewed:	A. GRUBER, PE
CP&Y Proj. No.	SAWS2100125



SHEET QUANTITY SUMMARY: C-2

SPEC	DESCRIPTION	UNITS	QNTY
103	Revegetation	SY	205.2
404.1	24" Corrugated Metal Pipe with Safety End Treatment (COSA)	LF	140
432.1	Rip Rap (Protection, 24", Grouted) (TxDOT)	CY	84.7
432.2	Bedding Material (3") (TxDOT)	CY	10.6
503.4	Asphaltic Concrete Driveway (COSA)	SY	48
503.5	Gravel Driveway (COSA)	SY	8
503.1	Portland Cement Concrete Driveway (COSA)	SY	67
550	Trench Excavation Safety Protection	LF	800
812	Water Main Installation (12" DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	683
828	Gate Valve - (12" - PVC or DIP) (14" - HDPE)	EA	1
836	Grey Iron and Ductile-Iron Fittings	TON	1.375
841	Water and Reclaimed Water Main Hydrostatic Pressure Test	EA	1
846	Combination Air Release Assembly - 2"	EA	4
SS859	Carrier Pipe for Open Cut Casing (12" DIP - CL 350 or 12" PVC - DR 18 or 14" HDPE (DIPS) DR 11)	LF	117
SS859	Steel Casing (24" Open Cut)	LF	117



- NOTES:**
- FOR LOCATION OF UNDERGROUND ELECTRIC AND GAS FACILITIES, TELEPHONE CABLES, AND TIME WARNER CABLE TV, CALL TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-545-8005 48 HOURS PRIOR BEFORE BEGINNING ANY EXCAVATION.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES ADJACENT TO THE WORK AREAS.
 - THE CONTRACTOR WILL HAVE RESPONSIBILITY TO PROTECT AND SUPPORT CABLE TV, TELEPHONE LINE, FIBER OPTIC CABLE, AND ECSUD WATER MAIN DURING CONSTRUCTION.
 - SEE TREE TREATMENT SCHEDULE, SHEET TP-3 & TP-4.
 - REMOVE ABANDONED ECSUD WATER LINE AS REQUIRED FOR INSTALLATION OF PROPOSED 12" WATER LINE. NO SEPARATE PAY ITEM.
 - SEE SHEET D-8 FOR ADDITIONAL THRUST RESTRAINT REQUIREMENTS.
 - COORDINATE LOCATION OF VENT PIPING WITH SAWS INSPECTOR.

- LEGEND**
- PROP. WATER MAIN
 - PROP. RESTRAINED JOINT LENGTHS
 - PROP. AIR RELEASE VALVE (ARV)
 - PROP. REDUCER
 - PROP. GATE VALVE
 - PROP. FIRE HYDRANT
 - EXIST. WATER METER
 - RELOCATE METER
 - CASED CROSSING
 - SURFACE IMPACT
 - EXIST. WATER MAIN
 - OH ELECTRIC CABLE
 - ELECTRIC JUNCT. BOX
 - UG TELEPHONE
 - TELEPHONE PEDESTAL
 - DUAL BRANCH SERV.
 - FOUND 1/2" IRON ROD OR AS NOTED
 - TEXAS DEPARTMENT OF TRANSPORTATION MONUMENT TYPE I OR TYPE II AS NOTED
 - FOUND PK NAIL
 - FOUND IRON PIPE
 - OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF BEXAR COUNTY, TEXAS
 - DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS
 - POWER POLE
 - POWER POLE WITH TRANSFORMER
 - GUY
 - ELECTRIC METER
 - LIGHT POLE
 - ELECTRIC BOX
 - IRRIGATION VALVE
 - WATER METER
 - WATER VALVE
 - FIRE HYDRANT
 - TELEPHONE PEDESTAL
 - PIPE
 - BOLLARD POST
 - POST AS NOTED
 - MAILBOX
 - SGN AS NOTED
 - CORRUGATED METAL PIPE
 - COLUMN
 - GATE
 - PROPOSED SERVICE LINE
 - CREEK CENTER FLOW LINE
 - CHAINLINK FENCE
 - BARBED WIRE FENCE (OR AS NOTED)
 - PIPE RAIL FENCE
 - WOVEN WIRE FENCE
 - GUARDRAIL
 - PROPERTY LINE
 - RIGHT OF WAY
 - CCN BOUNDARY
 - EXISTING WATER SERVICE
 - 100 YEAR FLOODPLAIN
 - EAST CENTRAL SPECIAL UTILITY DISTRICT
 - ECSUD
 - EXISTING COMPKEY NO.

SUE DATA

Owner	Utility	Level	Sta.	Elev. ¹
SAWS	8-IN W	A	0+98.68	594.92'
ECSUD	6-IN W	A	15+14.00	584.53'
ECSUD	6-IN W	A	20+55.50	585.55'
ECSUD	6-IN W	A	25+40.50	580.66'
SAWS	12-IN W	A	113+18.51	635.47'

¹ Elevation shown is top of utility elevation

SAN ANTONIO WATER SYSTEM
ZIGMONT ROAD
12" WATER LINE
PLAN SHEET
STA. 9+00 TO STA. 17+00

SHEET
C-2
SHEET 20 OF 57

Date: APRIL 2022
Designed: A. GRUBER, PE
Drawn: K. KOLLARS
Reviewed: A. GRUBER, PE
CP&Y Proj. No. SAWS2100125

CP&Y, INC.
CP&Y, INC.
TYPE FIRM REGISTRATION NO. #F-1741

CP&Y
SAN ANTONIO WATER SYSTEM

6/10/22
BY: DME
KD 6-10-22
REVISION NO. 2
NO. 1
T
ADDENDUM NO. 2
VERIFY SCALE - BAR IS ONE INCH ON ORIGINAL DRAWING. IF 1/2" NOT ONE INCH ON THIS SHEET, ADJUST SCALE