



INVITATION FOR BIDS No: CS-2020-0027

**City of Globe**  
**Walliman Road Waterline Replacement**  
**Project**

Addendum #2  
Dated: 08/19/2020

**Revised Bid Schedule and Revised Plans dated 08-18-20.**

**Please remove and replace the Bid Schedule and Plans that were included in the Invitation For Bids CS-2020-0027 with the attached.**

The Due Date & Time remain the same: 09/15/2020 at 2pm AZ Local Time

**\*\*\* THIS CONCLUDES ADDENDUM NO. 2 \*\*\***

**ADDENDUM #2- EXHIBIT B: BID SCHEDULE REVISED**

| <b>Item Number</b>   | <b>Description</b>  | <b>Unit</b> | <b>Quantity</b> | <b>Unit Price</b> | <b>Extended Price</b> |
|--|---|-------------|-----------------|-------------------|-----------------------|
| 1  | Mobilization & Traffic Control  | LS          | 1               |                   |                       |
| 2  | Replace 6" waterline including connection to existing waterlines, install gate valves, install fire hydrant, install and make service connections, install air relief valves, remove and replace pavement, remove and replace riprap, perform underground railroad crossing through an existing sleeve, install reinforcement for culvert crossing, compaction testing, pressure testing and line disinfection. All work to be performed per plans. | LS          | 1               |                   |                       |
| 3  | Bonding and Insurances  | LS          | 1               |                   |                       |
| 4  | Taxes   | LS          | 1               |                   |                       |
| 5  | Owner's Contingency (10% of Items 1-4)  | LS          | 1               |                   |                       |
| <b>TOTAL BID PRICE</b>   |   |             |                 |                   | \$                    |
| Provide installed unit pricing for:  |   |             |                 |                   |                       |
| <b>Bid Alternates: DO NOT INCLUDE ALTERNATE IN TOTAL BID PRICE ITEMS 1-5      PRICE/UNIT</b> |   |             |                 |                   |                       |
| 6  | 6" PVC C900   | LF          |                 |                   |                       |
| 6  | 6" Gate Valve, Valve Box and Cover  | EA          |                 |                   |                       |
| 6  | 6" Vertical or Horizontal Realignment   | EA          |                 |                   |                       |
| 6  | Fire Hydrant, associated fittings and valve with box and cover  | EA          |                 |                   |                       |
| 6  | ¾" Remove and replace service (short side)  | LS          |                 |                   |                       |
| 6  | ¾" Remove and replace service (long side)   | LS          |                 |                   |                       |
| 6  | Pavement Saw Cutting  | LF          |                 |                   |                       |
| 6  | Pavement Saw Cutting Removal  | SY          |                 |                   |                       |
| 6  | Pavement Replacement  | SY          |                 |                   |                       |
| 6  | Concrete Encasement   | LF          |                 |                   |                       |
| 6  | Hard Dig Rock Removal   | CY          |                 |                   |                       |
| 6  | Remove and Replace Riprap   | SY          |                 |                   |                       |

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**TOTAL BID PRICE (Do Not Include Alternate #6 items)**

\$ \_\_\_\_\_  
(In Numbers)

Dollars

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(In Words)

Cents

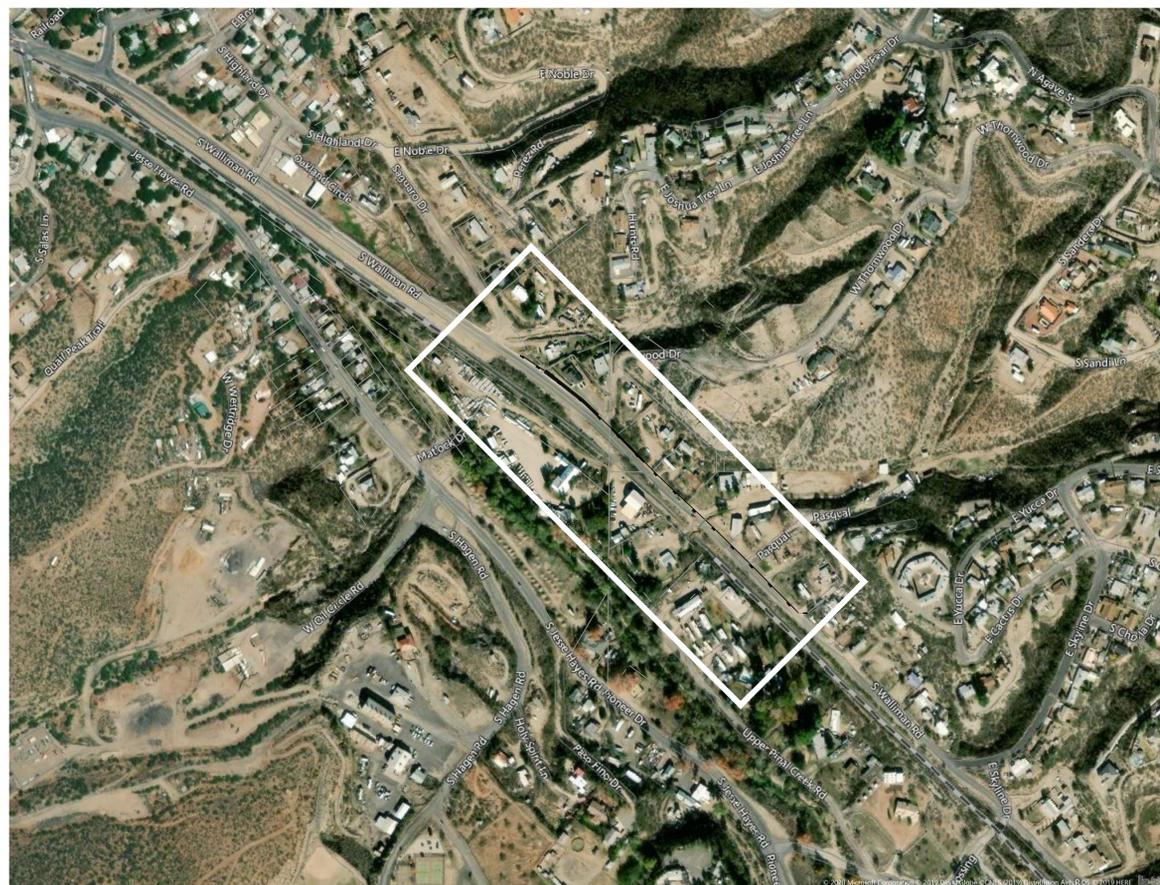
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(In Words)

- Traffic Control: Road closures are acceptable if local traffic is maintained
- Sewer Crossing: Per ADEQ, sewer services do not have a separation requirement. There are no sewer main crossings.
- Sand bedding is required 6" above the pipe, compaction is required
- Assume all services from the main will be tied in with new copper to the meter
- Revised plans 8-18-20 attached

# City of Globe

# Walliman Street Waterline Replacement



**Location Map**

## Plan Index

| DRAWING INDEX |                            |
|---------------|----------------------------|
| NO.           | DESCRIPTION                |
| 1             | TITLE, INDEX, LOCATION MAP |
| 2             | NOTES, SPECIFICATIONS      |
| 3             | DETAILS                    |
| 4             | PLAN: STA 0+00 TO 9+72     |
| 5             | PLAN: STA 0+00 TO -4+50    |

### UTILITIES

| PROVIDER          | REPRESENTATIVE | PHONE        |
|-------------------|----------------|--------------|
| APS Power         | Bryon Goslin   | 928-200-0061 |
| Century Link      | Rick Peters    | 520-836-1997 |
| Cable One         | Chris Guthrey  | 928-812-3816 |
| Southwest Gas     | Luz Acosta     | 520-316-5018 |
| City of Globe W&S | Jodi Martin    | 928-425-8346 |

### QUANTITIES

|  |          |
|--|----------|
| CONNECT TO EXISTING WATER LINE               | 2 EACH   |
| 6-INCH PVC, C900, CLASS 200                  | 973 LF   |
| 6-INCH GATE VALVE                            | 2 EACH   |
| 1" SERVICE CONNECTION UNDER RAILROAD         | 1 EACH   |
| AIR RELIEF VALVE                             | 1 EACH   |
| FIRE HYDRANT, 6" VALVE, AND 6" X 6" TEE      | 1 EACH   |
| 3/4" SERVICE CONNECTION. SEE DETAIL ON SHT 3 | 9 EACH   |
| ASPHALT REPAIR                               | 58.3 SY  |
| RIP RAP REPAIR                               | 173.3 SY |

### APPROVALS

Arizona Department of Environmental Quality Permit  
No. 2020XXXX DATE: TBD

### AS-BUILT CERTIFICATION

I hereby certify that the "As-Built" information as shown hereon is made by me or under my supervision and is correct to the best of my knowledge, so help me God.

\_\_\_\_\_  
RLS/PE Signature and Number

\_\_\_\_\_  
Date



**City of Globe**

|                 |                 |
|-----------------|-----------------|
| DATE: 08/2020   | DRAWN BY: TLH   |
| SURVEY: VM      | REVISED BY: TLH |
| DESIGN: TLH/LBH | REVIEW: LBH     |
| REVISION No.    |                 |

**WALLIMAN STREET  
WATERLINE REPLACEMENT**

**COVER SHEET**

PROJECT NO. 002.003  
SHEET 1 OF 5

User: jlh Date: Aug 18, 2020 1:49:49 PM  
 Drawing: S:\Projects\Work\Projects\Engineering\City of Globe\Walliman Water Line\CAD Plans\Walliman Street WL Replacement.dwg  
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**Waterline Construction Notes**

1. All Construction and testing must conform to the latest Maricopa Association of Governments (MAG) Uniform Standards Specifications and Details for Public Works Construction unless otherwise noted on plans.
2. All potable waterlines, fittings, fire hydrants, and valves shall have a NSF-PW seal & conform to AWWA standards. All materials and products used in the potable water system shall conform to NAF standards 60 and 61 in accordance with ACC R18-119. All materials shall be lead free as defined in ACC R18-4-504 and R18-4-101.
3. Any changes from approved plans shall be submitted to the City of Globe for written approval prior to installation. The engineer and City must approve prior to construction, any alteration or variance from these plans. Any variation from these plans shall be proposed on construction field prints and transmitted to the engineer.
4. The City engineering department shall inspect and approve all trenching, bedding, pipe installation, backfill and compaction. The City shall inspect and approve all pressure testing, disinfections and all operational checks. After completion of each phase of the project, but before acceptance by the City into warranty period, all punch list items must be 100% completed.
5. Contractor shall notify "BLUE STAKE CENTER" at 800-782-5348 two days before any excavation is to take place and the City Engineer's office 48 hours in advance of construction at 928-425-8346 for inspection scheduling.
6. The mainline pipe shall be AWWA C900, PVC pipe, class 200  
Pipe for water service shall be 3/4" Type K Copper, unless otherwise specified on the plans.
7. Waterlines, including all fittings and connections, shall be tested for water tightness by subjecting each section to pressure test, measured at the lowest point of the section under test. The test pressure shall be at least 200 psi and the duration of each pressure test shall be at least 2 hours per MAG Specification 610.15.  
Allowable leakage shall not exceed the following formula:  
  

$$M = (SDVP)/148,000$$

M = Testing allowance in Gallons  
 S = Length  
 D = Diameter  
 P = test pressure = 200 psi
8. The interior of all pipe, fittings, and valves shall be kept free of all dirt and foreign material at all times. Disinfect the waterline per MAG specification 611 and AWWA C651.05. Contractor shall conduct bacteria test after flushing pipes and provide results to owner. Pipe will not be accepted without successful bacteria test results.
9. The Contractor shall submit a traffic control plan to the Engineer for approval. Contractor shall maintain the approved plan throughout the duration of the project.
10. Water main shall not be placed within 6 feet, horizontal distance, nor within 2 feet, vertical distance, above the top of a sewer main unless extra protection is provided. Water-Sewer separation shall comply with AAC R 18-5-502.C. The separation requirements do not apply to building, plumbing, or individual house service connections.

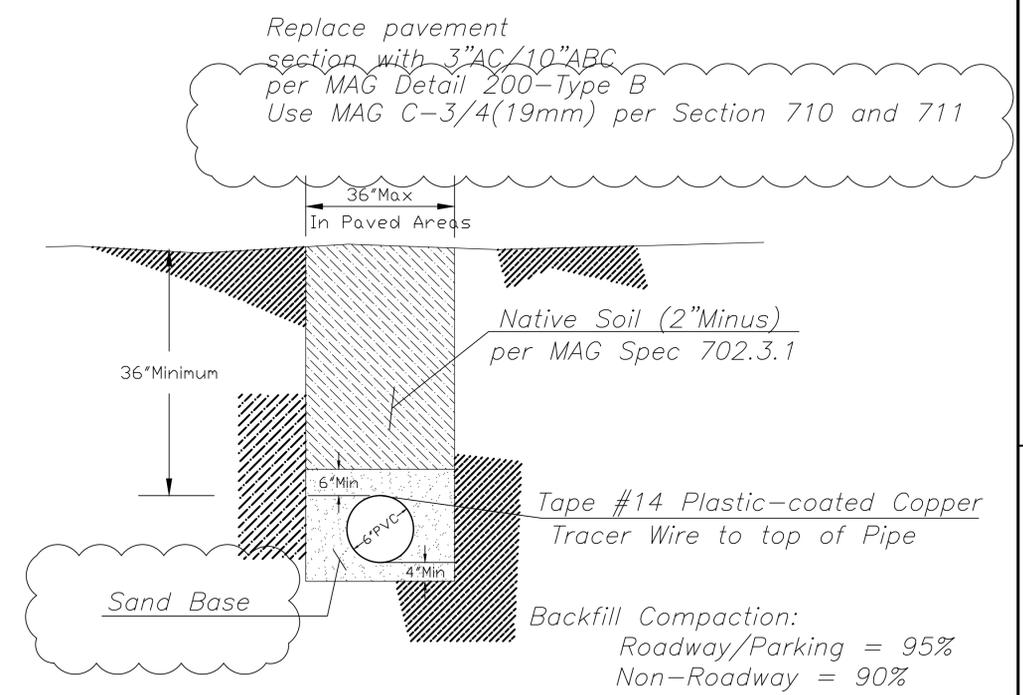
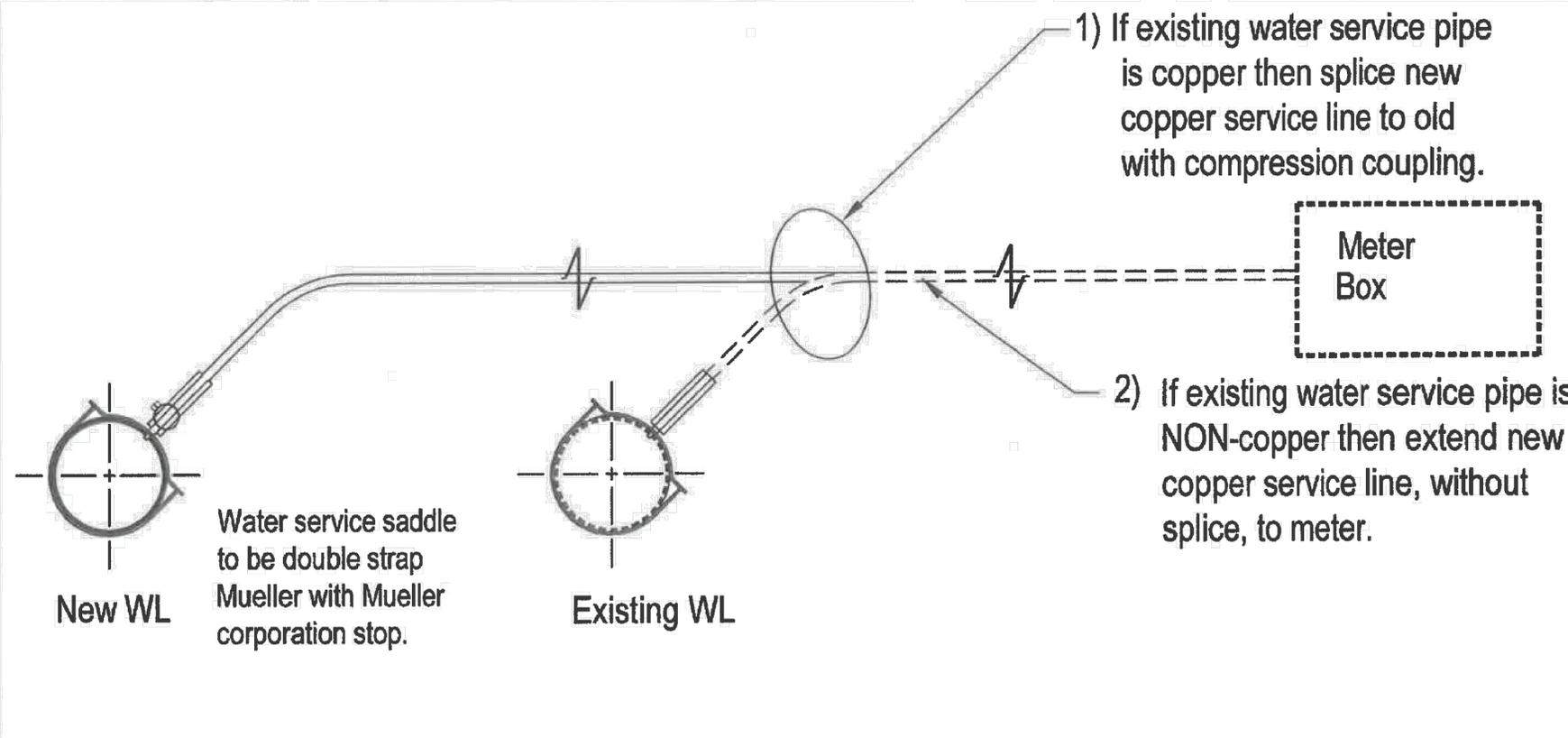
11. New Fire Hydrants to be Mueller brand per City of Globe standards.
12. Ductile Iron to be wrapped in plastic.
13. For Service Connections, use 3/4" Mueller brand double brass saddles, or approved equal, unless otherwise specified.

**Notes**

1. The quantities shown herein are estimates only. The Contractor shall make his own independent estimate of quantities and notify the Engineer of any discrepancies and base his bid thereon. No claim shall be made against the City or Engineer for excess or deficiency therein, actual or relative.
2. The Engineer and City will not be responsible or liable for construction means, methods, techniques, sequences, or procedures or safety precautions or programs utilized in connection with the work, and will not be responsible for the Contractor's failure to carry out the work in accordance with the contract documents.
3. Existing utilities shown on these plans have been located according to information provided by each utility and are approximate. Sanitary Sewer Service lateral locations will be verified by the contractor. If a lateral is damaged by the contractor it shall be repaired immediately at no expense to the owner.
4. The Contractor shall protect and maintain all existing utilities on the site unless otherwise noted on the plans, and damage to existing utilities, whether shown or not on the plans shall be repaired/replaced at the Contractor's expense. Existing surface features and fencing shall be replaced in kind.
5. Any inspection by the City, County, or Engineer shall not in any way relieve the Contractor from any obligation to perform the work in strict compliance with the plans, specifications, applicable codes and regulations.
6. Prior to final approval and acceptance of the work the Contractor will be required to clean and repair adjacent roadways used or damaged during the construction.
7. Emergency vehicle access (E.V.A.) must be provided by the Contractor throughout the project site. E.V.A. roads and signage shall be maintained by the Contractor at all times. Signage shall be posted at the point(s) of entry to the site and at all locations where a change in direction occurs.

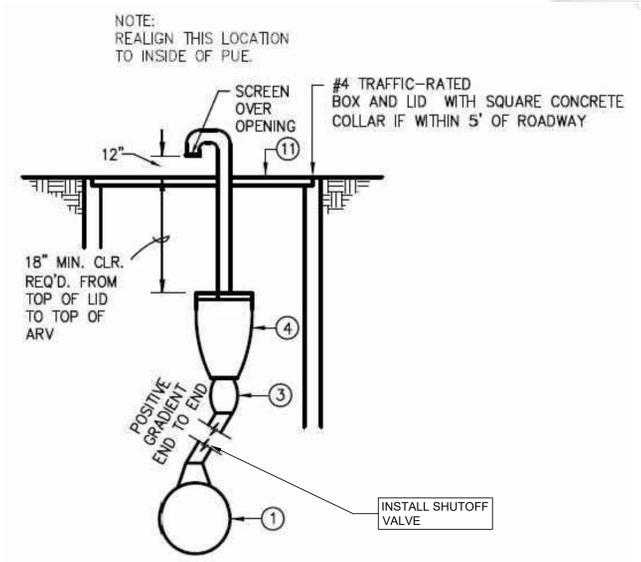
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|              |                      |                 |  |              |
|--------------|----------------------|-----------------|--|--------------|
|              | <b>City of Globe</b> |                 | <b>WALLIMAN STREET<br/>WATERLINE REPLACEMENT</b> |              |
|              | DATE: 08/2020        | DRAWN BY: TLH   | <b>CONSTRUCTION NOTES</b>                        |              |
|              | SURVEY: VM           | REVISED BY: TLH |  |              |
|              | DESIGN: TLH/LBH      | REVIEW: LBH     |  |              |
| REVISION No. |                      |                 | PROJECT NO. 002.003                              | SHEET 2 OF 5 |

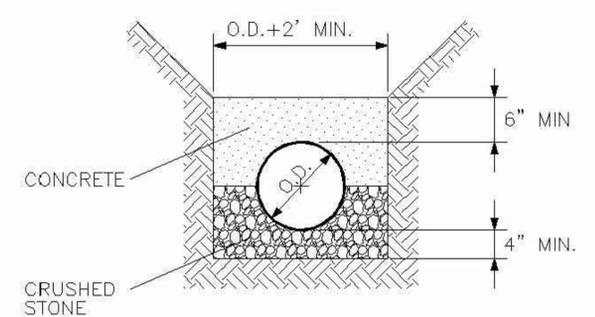


Water Trench Detail

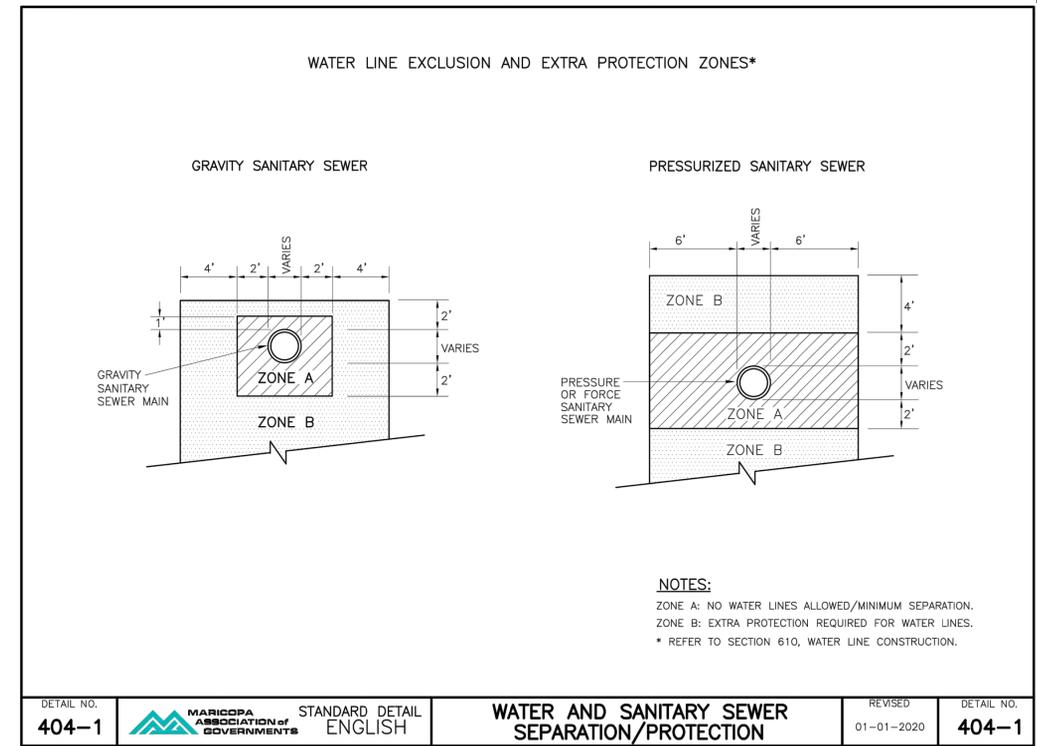
Service Connection Detail



TYPE "B" SHOULDER INSTALLATION



CONCRETE ARCH PIPE BEDDING AND HAUNCHING DETAILS



|                            |   |  |                       |                            |
|----------------------------|---|--|-----------------------|----------------------------|
| DETAIL NO.<br><b>404-1</b> | MARICOPA ASSOCIATION OF GOVERNMENTS<br>STANDARD DETAIL<br>ENGLISH | WATER AND SANITARY SEWER SEPARATION/PROTECTION | REVISED<br>01-01-2020 | DETAIL NO.<br><b>404-1</b> |
|----------------------------|---|--|-----------------------|----------------------------|

- AIR RELEASE VALVE NOTES:**
1. FORD/MUELLER TAP SADDLE.
  2. BRASS OR COPPER PIPE.
  3. FORD/MUELLER CORPORATION STOP.
  4. A.R.I. S=050 AIR-RELEASE VALVE, OR APPROVED EQUAL. AIR AND VACUUM COMBO UNITS NOT ALLOWED.
  5. A. MAIL PEP PIPE ADAPTER.  
B. 2" NIPPLES, GALVANIZED OR BRASS.  
C. UNION, GALVANIZED OR BRASS.  
D. STREET 90° ELL, GALVANIZED OR BRASS.
  6. GALVANIZED, BRASS COPPER PIPE, OR POLY.
  7. RISER (GALVANIZED, BRASS OR COPPER) PIPE.
  8. #1530-12 (1530-6) CARSON/BROOKS METER BOX WITH LID AND 1" HOLE DRILLED IN THE CENTER FOR RISER. PLACE IN DISTRICT APPROVED LOCATION.
  9. (2) 90° ELL'S WITH FINE MESH SCREEN OVER OPENING.
  10. PVC NOT APPROVED FOR ANY NON-BURIED INSTALLATION.
  11. 1730-18 (#1730-12) CARSON/BROOKS METER BOX WITH LID AND 1" HOLE DRILLED IN THE CENTER FOR RISER. PLACE IN DISTRICT APPROVED LOCATION.

AIR RELEASE VALVE  
N.T.S.

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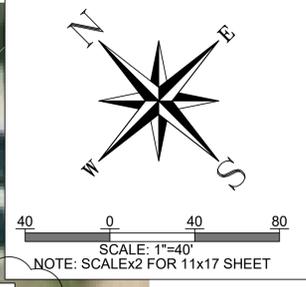
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**WALLIMAN STREET  
WATERLINE REPLACEMENT**

**DETAILS**

PROJECT NO. 002.003  
SHEET 3 OF 5



CULVERT CROSSING: INSTALL WATER LINE ABOVE CULVERT AND ENCASE IN CONCRETE FROM SPRING LINE TO 6" ABOVE PIPE

MATCHLINE SEE DRAWING 5

### Construction Quantities

|   |  |                                     |
|---|--|-------------------------------------|
| 1 | Connect to Existing Water Line   | 2 Each                              |
| 2 | New 1" line to be routed through existing 2" Conduit Under Railroad Crossing       | 1 Each                              |
| 3 | 6-inch PVC, C900, Class 200  | 973 LF                              |
| 4 | 6-inch Gate Valve  | 2 Each                              |
| 5 | Install Air Relief Valve at high elevation point. See detail on sheet 3.           | 1 Each                              |
| 6 | Fire Hydrant, 6" Valve, and 6" x 6" Tee  | 1 Each                              |
| 7 | 3/4" Service Connection. See Detail on Sht 3                                       | 8 Each                              |
| 8 | Remove and replace existing material (asphalt or rip rap). See details on sheet 3. | 173.3 SY Rip-Rap<br>58.3 SY Asphalt |

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**WALLIMAN STREET WATERLINE REPLACEMENT**

**STA 0+00 TO 9+72**

|                     |
|---------------------|
| PROJECT NO. 002.003 |
| SHEET 4 OF 5        |



### Construction Quantities

|   |  |        |
|---|--|--------|
| 1 | Connect to Existing Water Line   |        |
| 2 | New 1" line to be routed through existing 2" Conduit Under Railroad Crossing       |        |
| 3 | 6-inch PVC, C900, Class 200  |        |
| 4 | 6-inch Gate Valve  |        |
| 5 | Install Air Relief Valve at high elevation point. See detail on sheet 3.           |        |
| 6 | Fire Hydrant, 6" Valve, and 6" x 6" Tee  |        |
| 7 | 3/4" Service Connection. See Detail on Sht 3                                       | 1 Each |
| 8 | Remove and replace existing material (asphalt or rip rap). See details on sheet 3. |        |

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**WALLIMAN STREET WATERLINE REPLACEMENT**  
**STA -4+50 TO 0+00**  
 PROJECT NO. 002.003  
 SHEET 5 OF 5

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