

UNIVERSITY AREA JOINT AUTHORITY  
STATE COLLEGE  
CENTRE COUNTY, PENNSYLVANIA

CONTRACT #2011-03

PROPOSAL, CONTRACT & SPECIFICATIONS FOR  
MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT

FEBRUARY 2011

## INVITATION TO BID

Sealed Bids will be received by the University Area Joint Authority in their offices at 1576 Spring Valley Road, State College, Centre County, Pennsylvania, 16801 until 2:00 PM prevailing time, March 2<sup>nd</sup>, 2011, at which time they will be opened and read aloud. The bids are to be for the purchase of:

1. CONTRACT #2011-03, MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT

Instructions to Bidders, Specifications and Forms of Contracts may be obtained at the office of the Authority. All Bids shall be on the Bid Form and shall be irrevocable for a period of sixty (60) days after the opening of Bids.

The University Area Joint Authority reserves the right to waive any defects, errors, omissions, mistakes, informalities, to accept any bid or combination of bids that are deemed to be in the best interest of the Authority, and to reject any or all proposals.

Please be advised that the University Area Joint Authority will not discriminate against any interested firms or individuals in regard to race, creed, color, sex, age, handicap or national origin in the selection process.

Please contact Diane Ruth at 814-238-5361 between the hours of 8 a.m. and 4 p.m. with questions.

University Area Joint Authority

Cory R. Miller, Executive Director

Dated: February 2011

FORM OF BID

FOR: MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT

TO: University Area Joint Authority  
1576 Spring Valley Road  
State College, Pa. 16801

Gentlemen:

Pursuant to and in accordance with your advertisement for bids dated February 13<sup>th</sup> and February 16<sup>th</sup>, 2011, and the Instructions to Bidders relating thereto, the Undersigned having carefully examined the Specifications and other Contract Documents hereby proposes to furnish MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT in accordance with the Specifications and all Addenda issued by the Owner and mailed to the Undersigned a minimum of three (3) working days prior to the opening of Bids whether received by the undersigned or not, complete, and ready for use, for the lump sum price set forth in the following Schedule.

CONTRACT #2011-03

SCHEDULE NO. 1

MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT

For furnishing MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT as specified in Section No. 2 of these Specifications, the lump sum price is:

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Additions or Deductions for Modifications and/or Exceptions to the Specifications:

- |          |          |
|----------|----------|
| 1. _____ | \$ _____ |
| 2. _____ | \$ _____ |
| 3. _____ | \$ _____ |
| 4. _____ | \$ _____ |
| 5. _____ | \$ _____ |

BIDDER'S REPRESENTATION

The undersigned hereby represents as follows:

1. That this Bid is made without connection with any person, firm, or corporation making a bid for the MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT, and is in all respects fair and without fraud or collusion;
2. That no officer, agent or employee of the University Area Joint Authority is personally interested directly or indirectly in this Contract or the compensation to be paid hereunder; and,
3. That no representation, statement or statements, oral or in writing, has induced them to enter into this contract excepting only those contained in the Contract Documents or made a part hereof by its terms.

The undersigned hereby designates as their office to which any notice of acceptance may be sent:  
(provide company name, address, phone, fax, email, contact name)

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This bid may be withdrawn at any time prior to the scheduled time for opening of bids or any authorized postponement thereof.

WITNESS:

\_\_\_\_\_

INDIVIDUAL:

\_\_\_\_\_ (SEAL)

WITNESS:

\_\_\_\_\_

PARTNERSHIP:

\_\_\_\_\_ (SEAL)

By: \_\_\_\_\_ (SEAL)

\_\_\_\_\_ (SEAL)

WITNESS:

\_\_\_\_\_

FIRM OR CORPORATION:

\_\_\_\_\_ (SEAL)

By: \_\_\_\_\_

If a corporation, give State of Incorporation using the phrase, "A Corporation Organized under the Laws of

\_\_\_\_\_."

If a partnership, give names of partners, using also, the phrase, "Co-partners trading and doing business under the firm name of

\_\_\_\_\_."

If an individual, using a trade name, give individual name, using also, the phrase, "An individual doing business under the firm name of

\_\_\_\_\_."

SECTION NO. 1  
INSTRUCTIONS TO BIDDERS

1. The attached Specifications set forth for MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT. Any change, variation or substitution of equal product must be clearly stated in the proposal.
2. All Contracts must be executed on forms furnished by the Authority.
3. All Bids shall be sealed in an envelope plainly marked "SEALED BID FOR CONTRACT #2011-03" UNIVERSITY AREA JOINT AUTHORITY, MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT.
4. All supplemental instructions will be in the form of written Addenda to the bid and Specifications, which if issued, will be mailed to all prospective Bidders not later than three (3) working days prior to the date fixed for the opening of the bids.
5. The successful Bidder will be responsible for the payment of all Excise, Sales and Use Taxes and all other taxes required by law on all supplies, tools, apparatus, equipment, fixtures, services, uses and incidentals which they purchase or use for the purpose of fulfilling the work of this Contract, and they shall include all amounts required for such taxes within the item prices bid in his Bid. No additional payment will be made to cover such taxes. Each Bidder shall thoroughly familiarize themselves before submitting a Bid with all laws requiring the payment of such taxes.

Attention is directed to the fact that under existing provisions of the Pennsylvania 1963 Tax Act for Education and regulations promulgated by the Pennsylvania Department of Revenue, items of tangible personal property used or consumed directly in the rendition of a public utility service (including a sewer system) are exempt from tax under said Act upon proper application for the certificate of exemption. Bidders are further advised that, upon proper application, an Excise Tax Exemption Certificate will be provided to the successful Bidder.

CONTRACT

THIS AGREEMENT made and entered into this \_\_\_\_\_ day of \_\_\_\_\_ by and between the University Area Joint Authority, hereinafter known as the Owner, Party of the First Part, and \_\_\_\_\_ a \_\_\_\_\_ known as \_\_\_\_\_, existing under the laws of \_\_\_\_\_, hereinafter called the SUPPLIER, Party of the Second Part.

WITNESSETH, that the Parties hereto for the consideration stated mutually agree as follows:

ARTICLE I – SCOPE OF WORK:

The SUPPLIER agrees to furnish the specified MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT and perform all work necessary for or incidental to, and to perform all other obligations imposed by this contract for the complete work, all in strict accordance with the CONTRACT DOCUMENTS as prepared by the Authority, attached hereto or referred to herein, all of which are made a part of and designated as follows:

- a. Notice to Bidders
- b. Instructions to Bidders
- c. Form of Bid
- d. Specifications for MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT



ARTICLE IV – DISPOSAL OF CONTRACT:

The SUPPLIER shall keep the CONTRACT under their own control and shall not sell, transfer or assign or otherwise dispose of the CONTRACT or any portion thereof or their right, title or interest herein to any person, firm or corporation without the express written consent of the OWNER.

IN WITNESS WHEREOF, the parties hereto have caused the signatures of their proper officers to be affixed hereunto on the day and year first above written.

**CONTRACT #2011-03    MANHOLES FOR BIG HOLLOW FORCE MAIN PROJECT**

UNIVERSITY AREA JOINT AUTHORITY

By: \_\_\_\_\_  
                    Chairman

ATTEST:

\_\_\_\_\_  
                    Secretary

SUPPLIER

By: \_\_\_\_\_

ATTEST:

\_\_\_\_\_

## SECTION NO. 2 SPECIFICATIONS

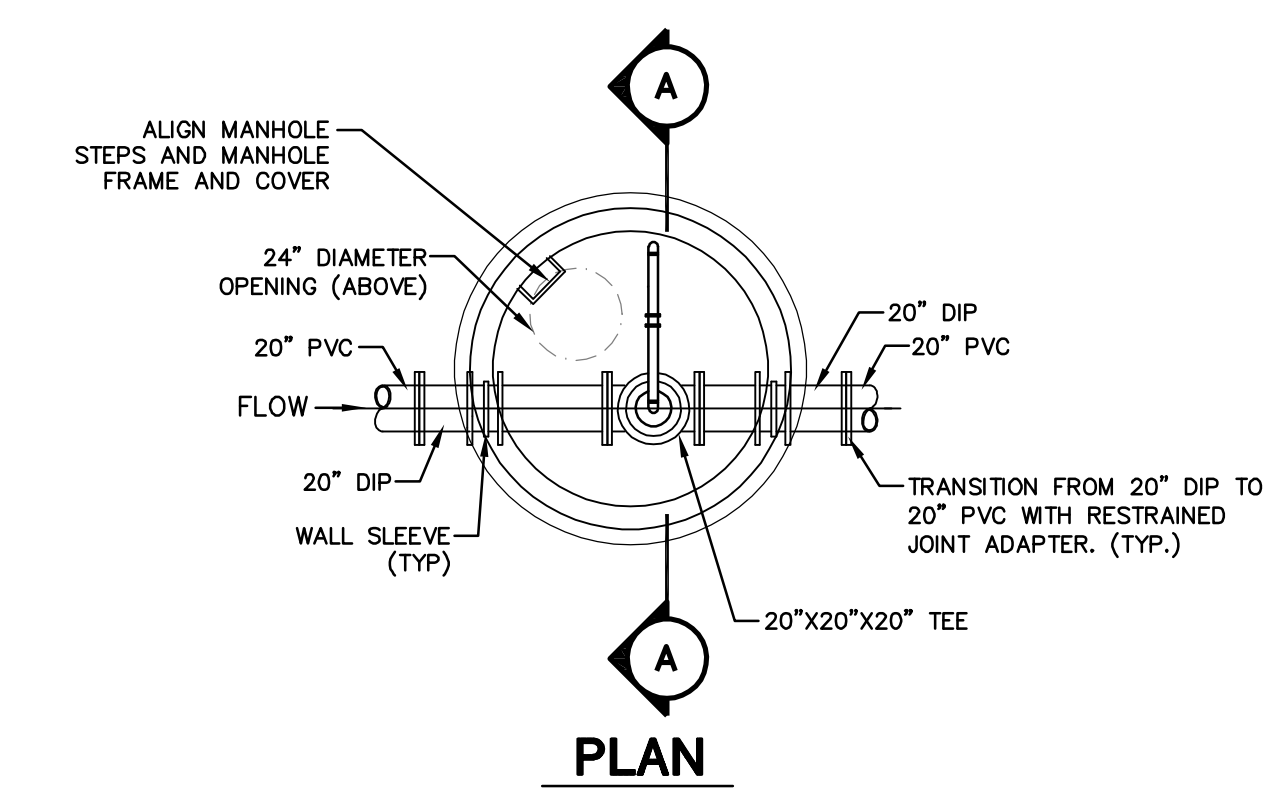
The following indicates the MINIMUM specifications of this contract.

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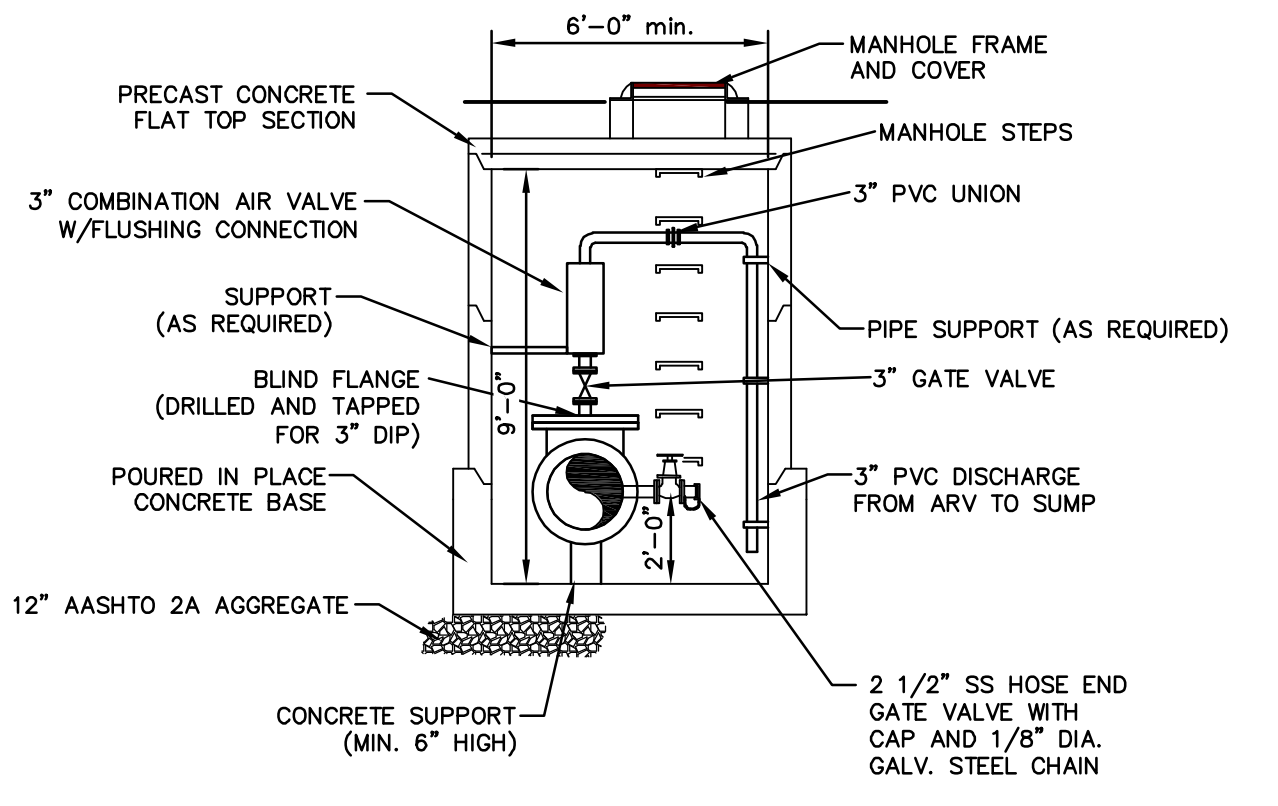
- 1) Product delivery must begin the week of April 4th, 2011 and be completed no later than April 29<sup>th</sup>, 2011.
- 2) Total manholes: 5
- 3) All supplies will be delivered to the State College area. 24 hour notice prior to delivery is required. UAJA receiving hours are Monday through Friday, 8 am-3 pm.
- 4) Supplies must be delivered on a boom truck.
- 5) See attached documents for Manhole Specification

### **GENERAL SPECIFICATIONS FOR ALL MANHOLES:**

- ALL 6' DIA. X 5' HIGH FLANGED BASES
- BITUMANUS COATING
- PIPE GASKETS
- POLY OR ALUMINUM STOPS
- (4) 3/4" INSERTS IN CONE
- 30" OPENING IN CONE
- DOUBLE MASTIC
- MUST MEET UAJA SPECIFICATIONS (refer to [www.uaja.com](http://www.uaja.com))

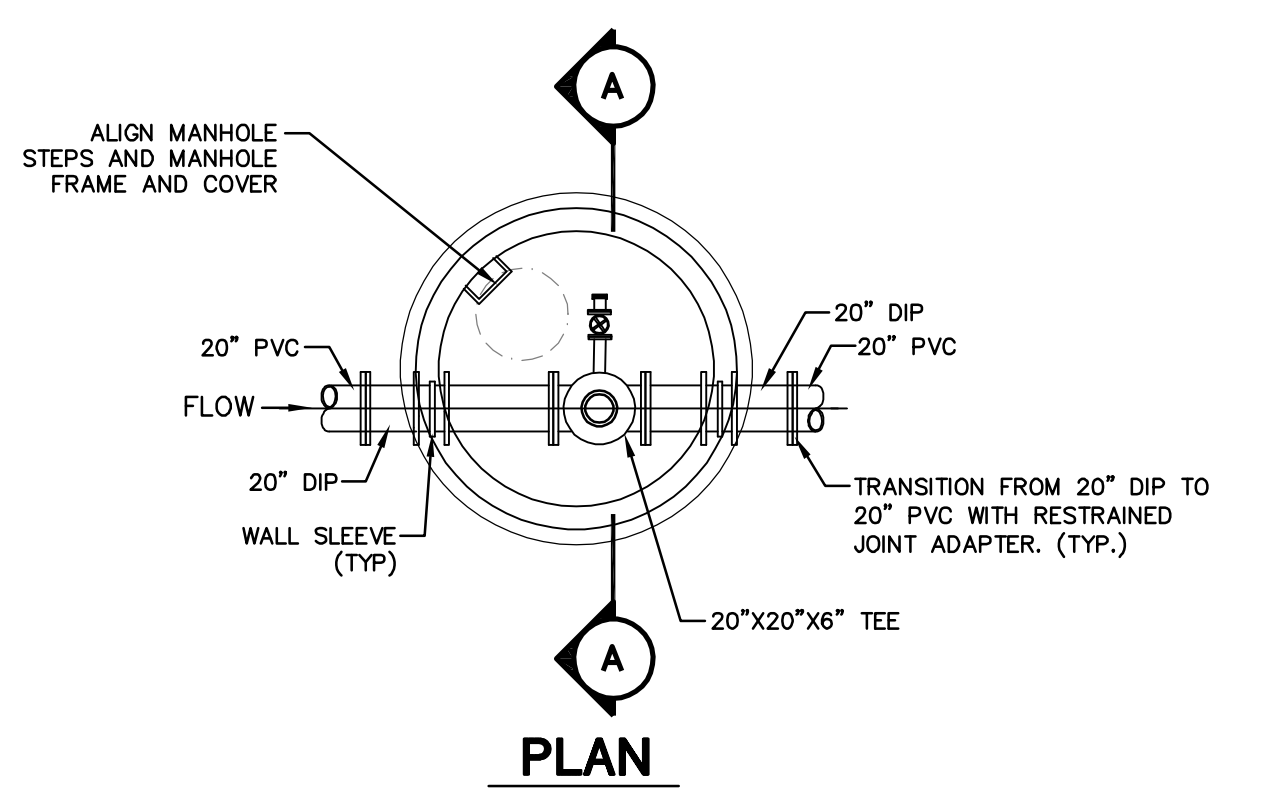


**PLAN**

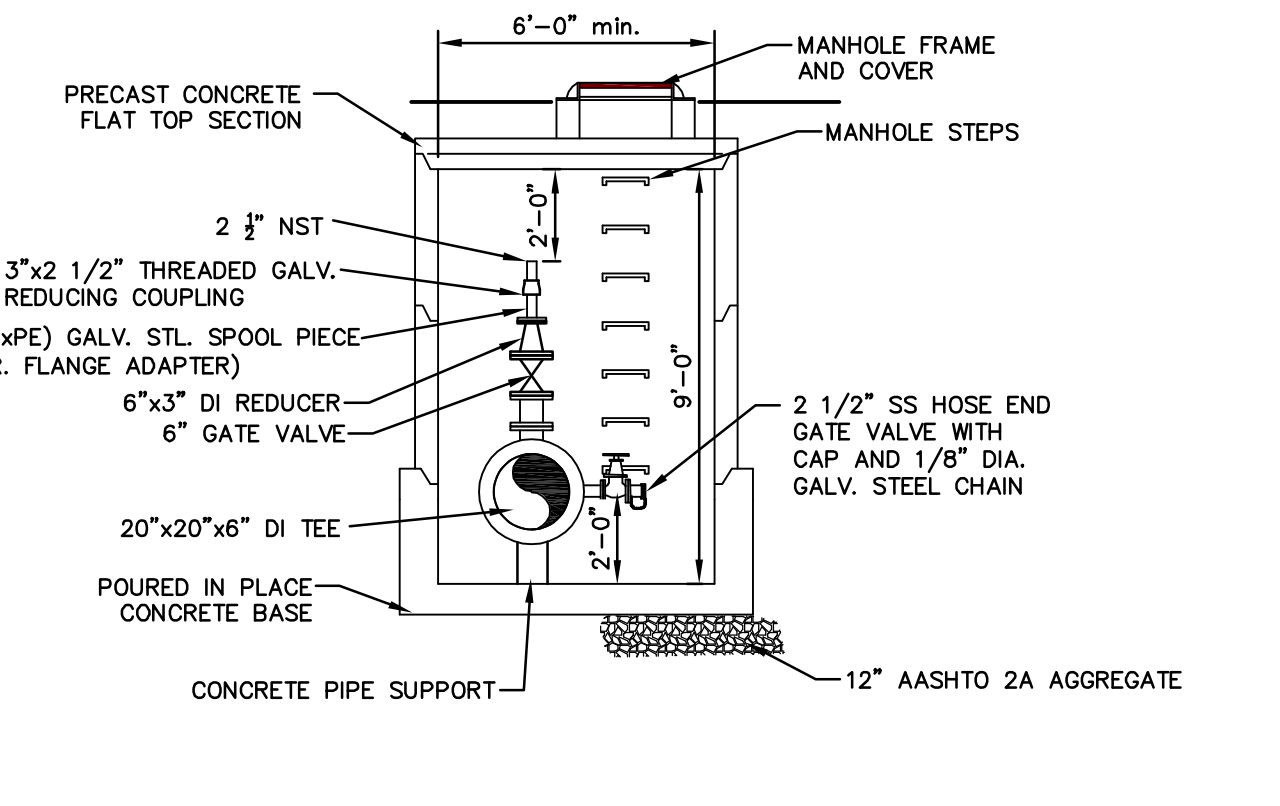


**SECTION A-A**

- NOTES:**
1. FASTENING HARDWARE TO BE 304 STAINLESS STEEL.
  2. ALL PIPING WITHIN CHAMBER TO BE PROVIDED WITH FLANGED JOINTS.
  3. INSIDE HEIGHT OF MANHOLE TO ACCOMMODATE VALVING WITH SUFFICIENT CLEARANCE FOR REMOVAL.
  4. CONTRACTOR TO EXTEND DIP A MINIMUM OF 4' BEYOND EXTERIOR WALL OF CONCRETE CHAMBER. (TYP. BOTH SIDES)
  5. CONTRACTOR TO MAINTAIN A NEGATIVE SLOPE INTO THE ARV AND A POSITIVE SLOPE OUT OF THE ARV.
  6. 20" DIP TO BE INSTALLED LEVEL THROUGH MANHOLE

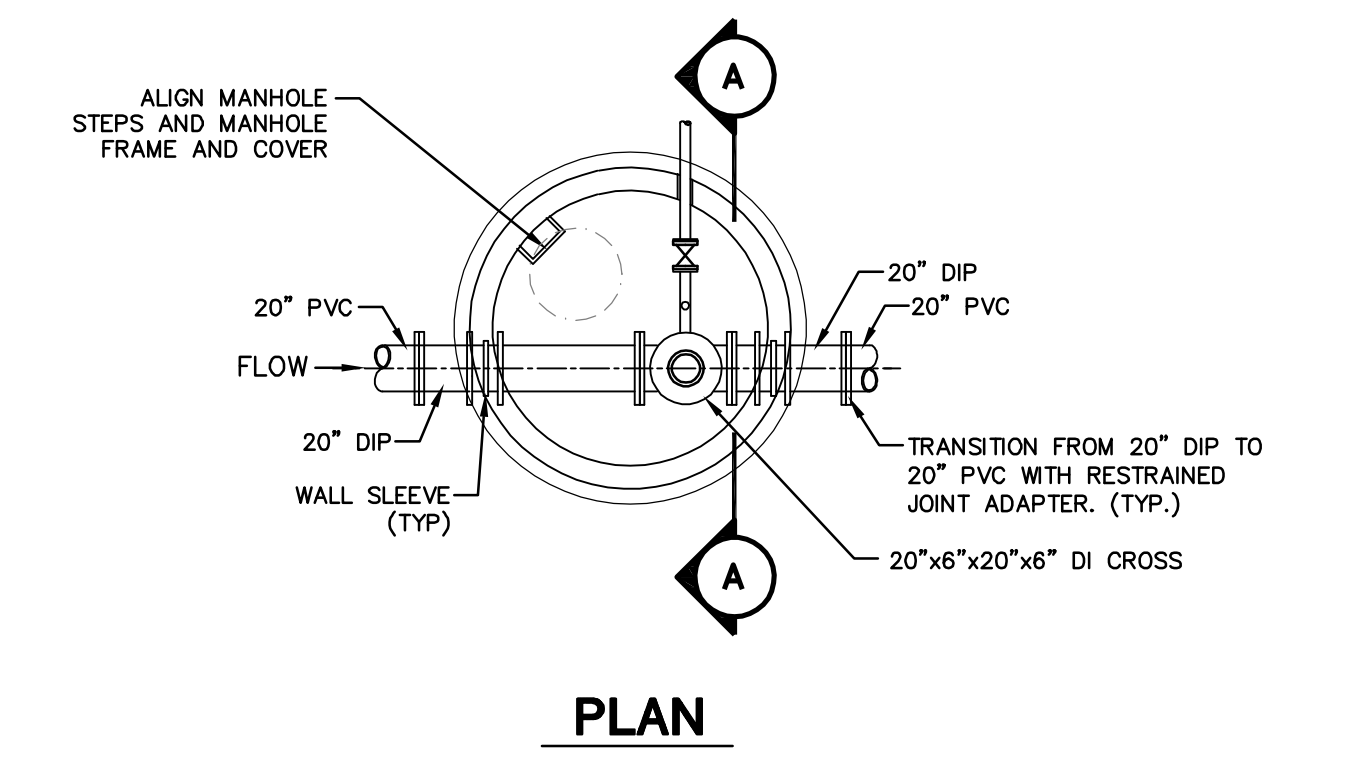


**PLAN**

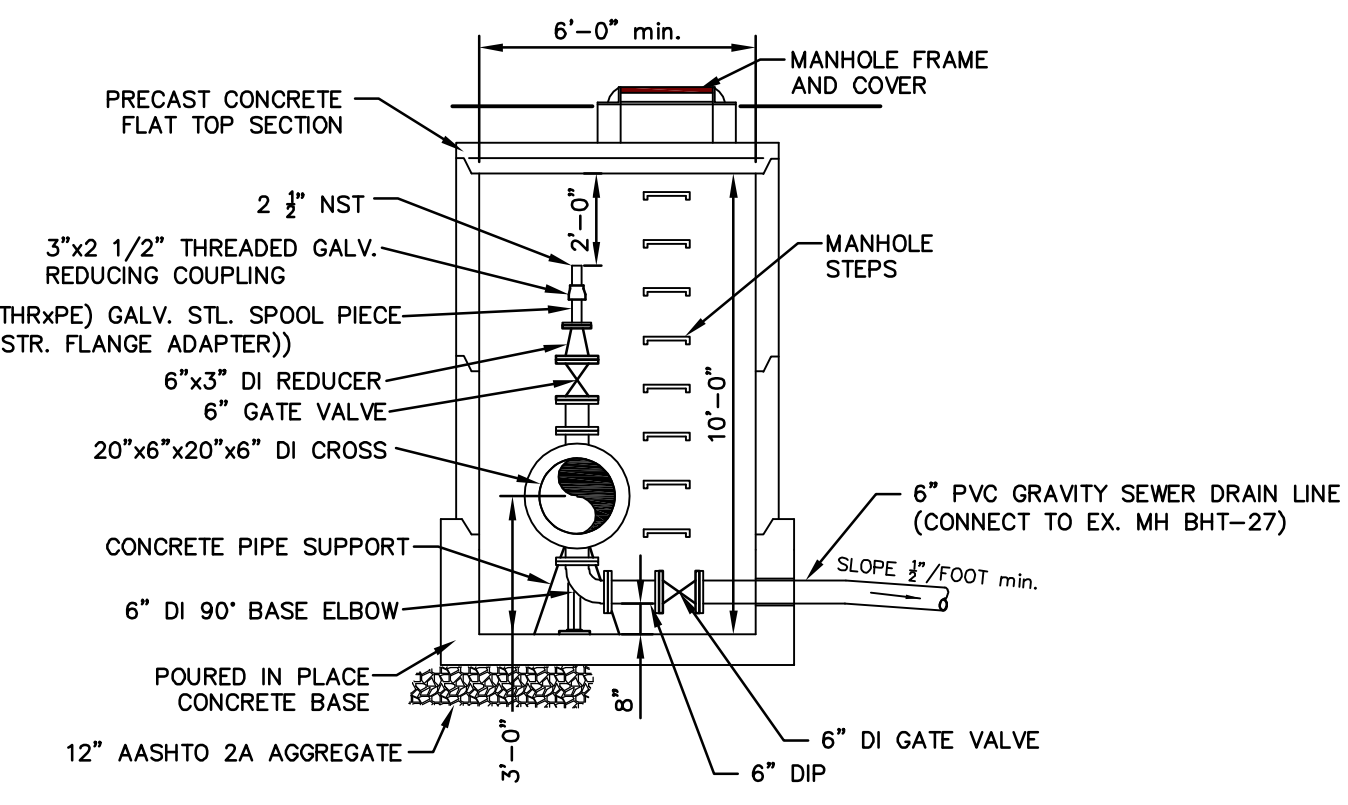


**SECTION A-A**

- NOTES:**
1. FASTENING HARDWARE TO BE 304 STAINLESS STEEL.
  2. ALL PIPING WITHIN CHAMBER TO BE PROVIDED WITH FLANGED JOINTS.
  3. INSIDE HEIGHT OF MANHOLE TO ACCOMMODATE VALVING WITH SUFFICIENT CLEARANCE FOR REMOVAL.
  4. ACTUAL DEPTH OF CLEAN OUT MANHOLE TO BE DETERMINED BY CONTRACT 09-4 (HIGHWAY CROSSING) PIPE ELEVATION.
  5. CONTRACTOR TO EXTEND DIP A MINIMUM OF 4' BEYOND EXTERIOR WALL OF CONCRETE CHAMBER. (TYP. BOTH SIDES)
  6. 20" DIP TO BE INSTALLED LEVEL THROUGH MANHOLE

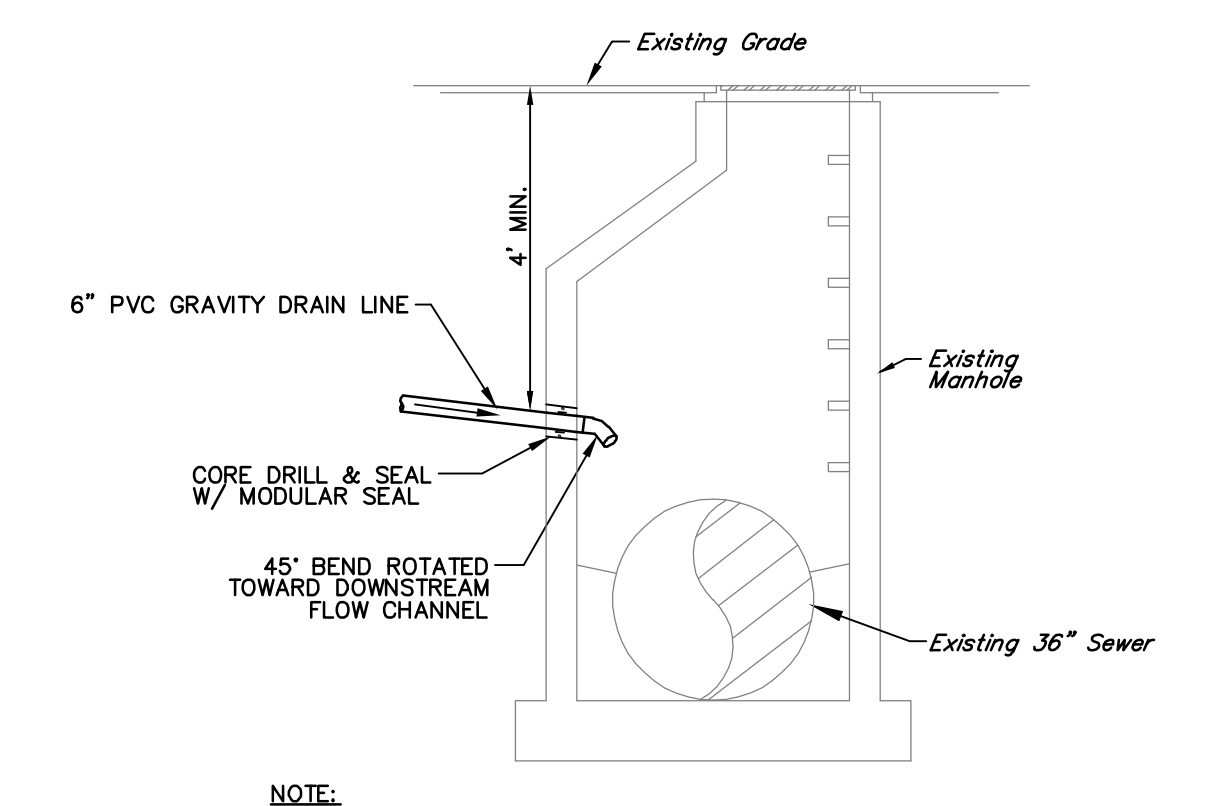


**PLAN**



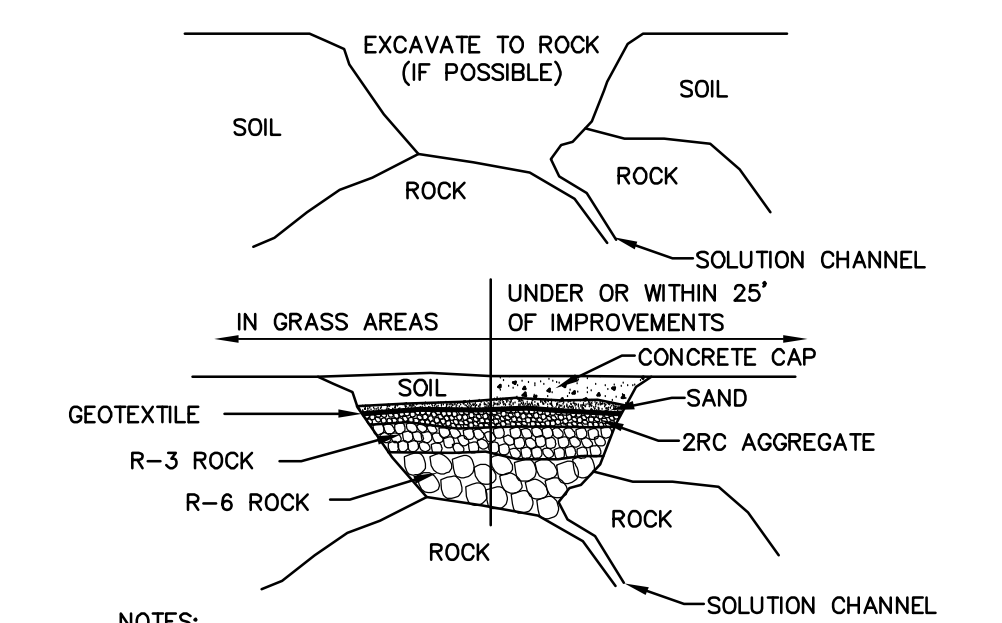
**SECTION A-A**

- NOTES:**
1. FASTENING HARDWARE TO BE 304 STAINLESS STEEL.
  2. INSIDE HEIGHT OF MANHOLE TO ACCOMMODATE VALVING WITH SUFFICIENT CLEARANCE FOR REMOVAL.
  3. CONTRACTOR TO MAXIMIZE SLOPE OF 6" PVC GRAVITY DRAIN LINE.
  4. CONTRACTOR TO EXTEND DIP A MINIMUM OF 4' BEYOND EXTERIOR WALL OF CONCRETE CHAMBER. (TYP. OF BOTH SIDES)
  5. 20" DIP TO BE INSTALLED LEVEL THROUGH MANHOLE



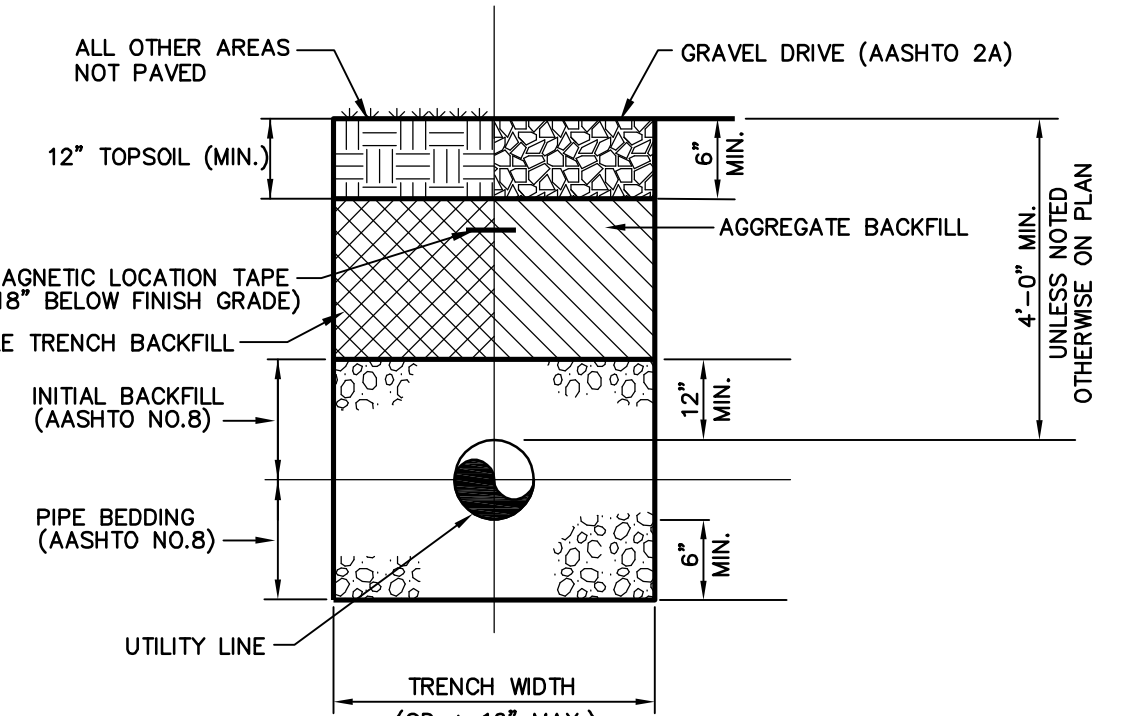
**NOTE:**  
CONTRACTOR TO INSTALL THE 6" PVC DRAIN LINE INTO THE EXISTING MANHOLE AT AN INVERT THAT IS ABOVE THE EXISTING FLOW CHANNEL.

**DRAIN LINE DISCHARGE TO EX. MANHOLE DETAIL**  
NOT TO SCALE

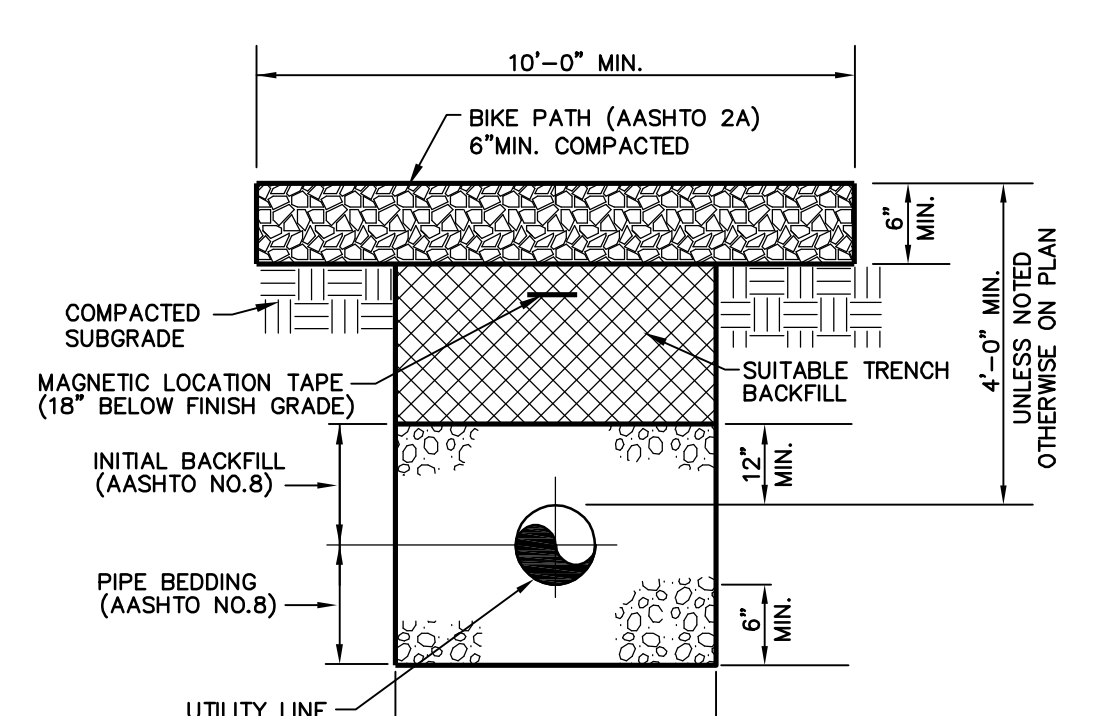


- NOTES:**
1. EXCAVATE THE SINKHOLE DOWN TO ROCK IF POSSIBLE.
  2. EACH LAYER TO BE 6" TO 2" THICK. WHEN ROCK IS ENCOUNTERED NEAR THE SURFACE DO NOT PLACE THE BOTTOM LAYERS OF ROCK OR USE THINNER LAYERS.
  3. THE BOTTOM LAYER OF ROCK TO BE LARGER THAN THE SOLUTION CHANNEL OPENING IN THE BEDROCK.
  4. SINKHOLES UNDER OR WITHIN 25' OF PROPOSED IMPROVEMENTS SHALL BE CAPPED WITH CONCRETE

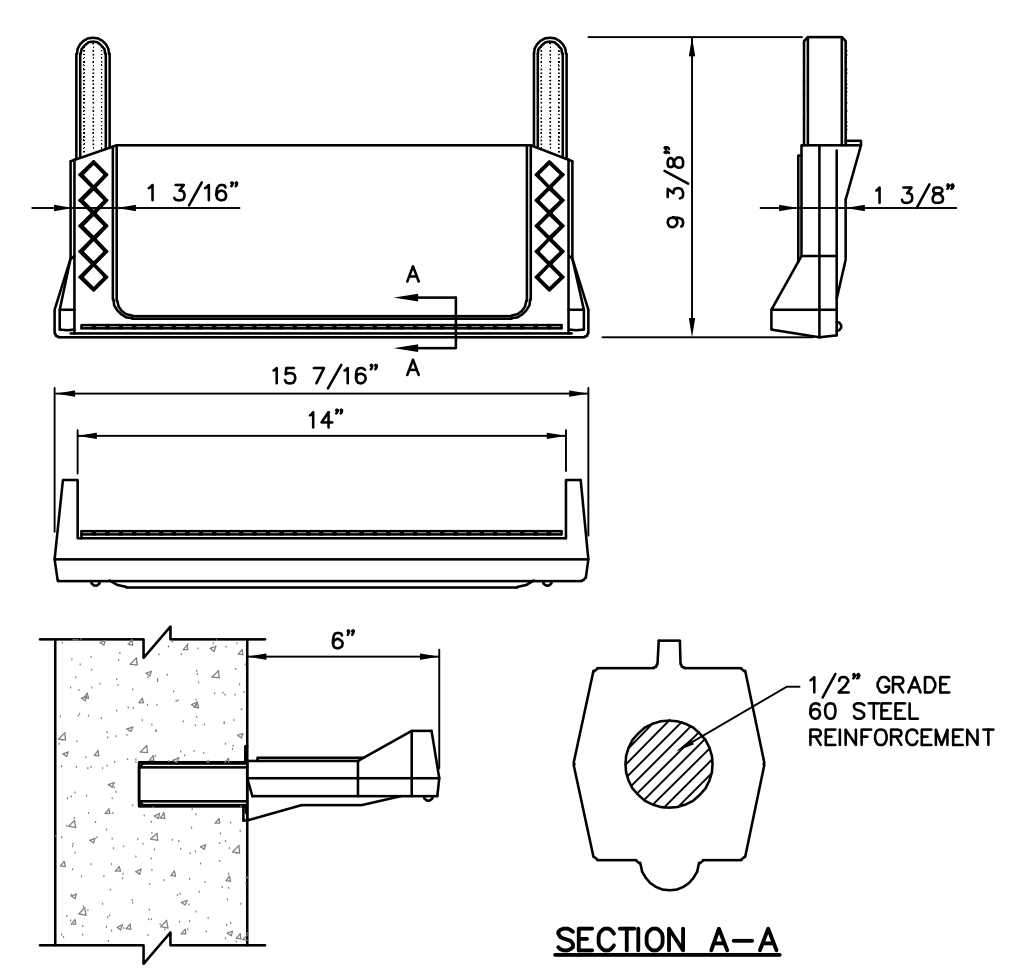
**SINKHOLE REPAIR DETAIL**  
NOT TO SCALE



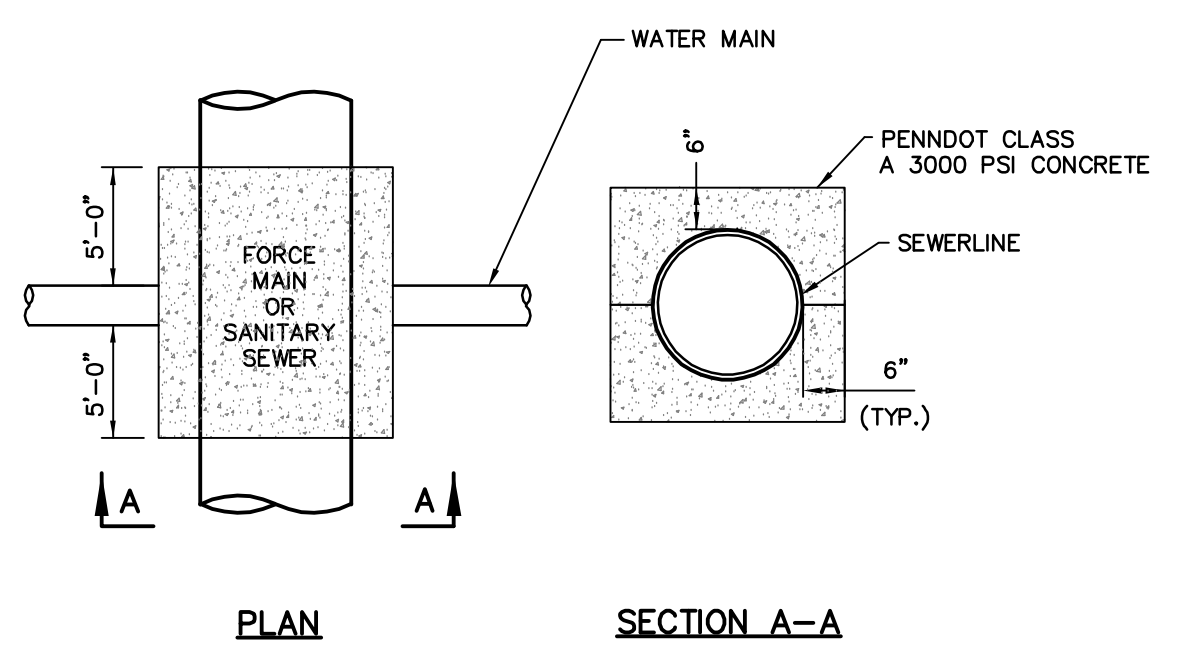
**UTILITY TRENCH DETAIL**  
NOT TO SCALE



**BIKE PATH RESTORATION DETAIL (STA. 55+50 - STA. 86+31)**  
NOT TO SCALE

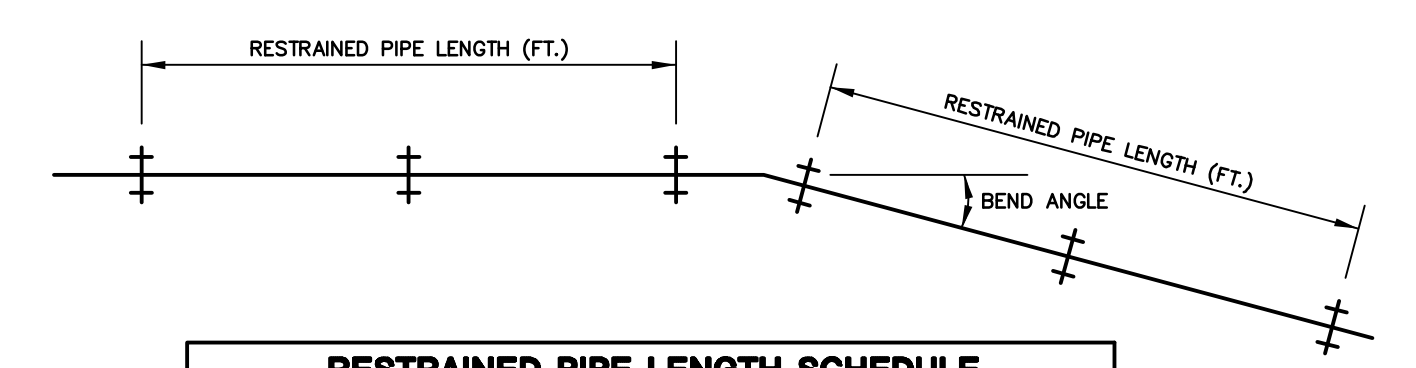


**COPOLYMER POLYPROPYLENE PLASTIC MANHOLE STEP**  
NOT TO SCALE



**NOTE:**  
PROVIDE CONCRETE ENCASUREMENT ON SEWERLINE AT ALL WATERLINE CROSSINGS

**UTILITY CROSSING DETAIL**  
NOT TO SCALE



RESTRAINED PIPE LENGTH SCHEDULE				
HORIZONTAL BENDS				
PIPE DIAMETER	90°	45°	22 1/2°	11 1/4° PLUGS & TEES
20"	---	39'	19'	10'

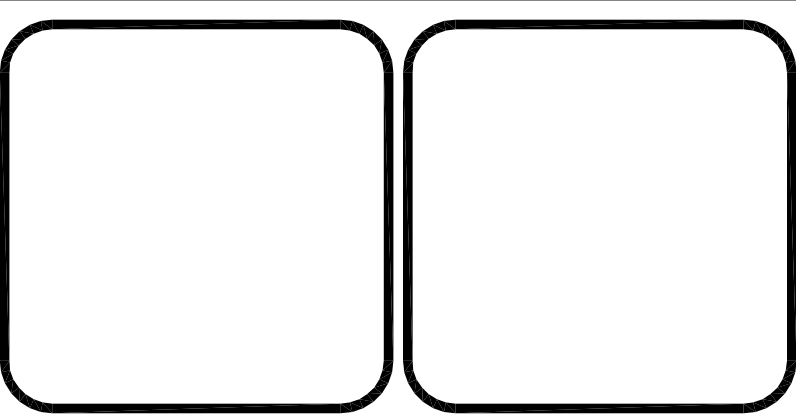
RESTRAINED PIPE LENGTH SCHEDULE				
VERTICAL BENDS (UPPER)				
PIPE DIAMETER	45°	22 1/2°	11 1/4°	PLUGS & TEES
20"	136'	66'	33'	---

RESTRAINED PIPE LENGTH SCHEDULE				
VERTICAL BENDS (LOWER)				
PIPE DIAMETER	45°	22 1/2°	11 1/4°	PLUGS & TEES
20"	28'	14'	7'	---

- NOTES:**
1. ALL LENGTHS BASED ON 150 PSI MAXIMUM PRESSURE. FOR HIGHER PRESSURES, INCREASE LENGTHS IN PROPORTION TO PRESSURE RATION.
  2. PIPE THRUST RESTRAINT SHALL INCORPORATE THE USE OF BELL RESTRAINT HARNESSSES AT VALVES AND FITTINGS.
  3. RESTRAINED PIPE LENGTHS REPRESENT MAXIMUM RESTRAINED LENGTHS. CONTRACTOR MAY REQUEST REDUCED LENGTHS WITH JUSTIFICATION BASED ON FIELD CONDITIONS FOR OWNER AND ENGINEER CONSIDERATION.

**RESTRAINED PIPE LENGTH SCHEDULE**  
NOT TO SCALE

NO.	REVISION	DATE	BY



**HRG**  
Herbert, Rowland & Grubic, Inc.  
Engineering & Related Services

474 Windmere Drive  
State College, PA 16801  
(814) 238-7117  
Fax (814) 238-7126  
hrg@hrg-inc.com  
www.hrg-inc.com

UNIVERSITY AREA JOINT AUTHORITY  
1576 SPRING VALLEY ROAD  
STATE COLLEGE, PA 16801

CONTRACT 09-2  
BIG HOLLOW FORCE MAIN & APPURTENANCES  
CONSTRUCTION DETAILS

COLLEGE TOWNSHIP CENTRE COUNTY PENNSYLVANIA

PROJ. MGR. - DEW  
DESIGN - BRB  
CADD - CDB/MDS  
CHECKED - DEW  
SCALE - AS SHOWN  
DATE - JAN/2011

DRAWING NO.  
**DT-1**  
SHEET NO.  
**7 OF 8**  
PROJECT 001178.0249