

SANTA ANA WATERSHED PROJECT AUTHORITY  
INLAND EMPIRE BRINE LINE REACH V  
REHABILITATION AND IMPROVEMENT PROJECT – PHASE 2

**ADDENDUM NO. 1**

The following addendum is being issued for the above referenced contract(s). Bidders are required to incorporate the information contained herein as if originally issued and included with the contract documents. Pursuant to Section 6 of the Bid Form, Bidders are required to acknowledge receipt of this addendum and confirm all associated impacts from this addendum are included in the Bid. Failure to acknowledge this addendum in the Bid Form may render the Bid non-responsive and may not be considered.

**PRE-BID MEETING**

The sign-in sheet and minutes from the Pre-Bid Meeting, held January 6, 2016, are attached.

**PART 1: RESPONSES TO QUESTIONS**

The following are written questions from Steve Himle, Weka, received Wednesday January 6, 2016:

1. Q - The qualifications required general to have 150,000 lf of 18' and greater HDPE installation experience and three projects with HDPE. Will 150,000 lf of 18" and greater pipe installation qualify for this requirement? Past projects were 150,000 lf of pipe experience 18" size and greater. Will the fusion contractor qualify for the 150,000 lf of HDPE?

A – See Part 2 of this addendum for contractor references and qualifications. Qualifications for the HDPE fusion contractor are in specification Section 15061.

2. Q - On Nichols Road, the trench is in or near the pavement edge. What is the existing thickness of AC on Nichols Road and what will be the pavement repair requirements being this is a newer paved section of road?

A – Nichols Road is 6 inches of AC over 20 inches of base.

The following question is from Howard Liddle, Colich, received January 6, 2016:

3. Q - On page 39 of the specifications you require the Prime Contractor to have successfully installed 150,000 linear feet of 18 inch or greater HDPE pipeline. I don't think you will find any of your plan-holders can meet this requirement under their present firm's contractor's license. Can you please consider reducing HDPE pipe experience quantity requirement?

A – See Part 2 of this addendum for qualifications of the prime contractor.


## **PART 2: REVISIONS TO SPECIFICATIONS**

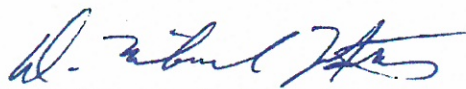
4. Specification Front End Documents, Contractor References and Qualifications, Page 39, shall be replaced with the attached, Page 39.
5. Specification Section 01590 Field Office, pages 1-4, shall be replaced with the attached, pages 1-4.

## **PART 3: REVISIONS TO DRAWINGS**

6. The following drawings shall be replaced with the attached revised drawings, indicating drawing revision 1 with a triangle.
  - a. Sheet D-3, in its entirety
7. Note 7 of Detail 1 on Sheet D-4 shall be changed to read: "Contractor shall furnish and install geotextile wrap (Mirafi 140N, or approved equal) around the pipe zone where the Contractor cannot obtain the required pipe zone compaction. Contractor shall coordinate with the Owner or his assigned representative to confirm the requirement for geotextile wrapping and install said geotextile as directed, at no additional cost to the Owner."

DATED: January 13, 2016

BY:   
David P. Ruhl, P.E.  
SAWPA Program Manager

BY:   
D. Michael Metts, P.E.  
Dudek

### **Attachments:**

Pre-Bid Conference Sign-in Sheet  
Pre-Bid Conference Minutes  
Specifications Front End Documents Page 39  
Specifications Section 01590 Pages 1 - 4  
Revised Drawing Sheet D-3

# Pre-Bid Conference

## Brine Line Reach V Rehabilitation and Improvement Project - Phase 2

(non-mandatory)

Wednesday, January 6, 2016

2:00 p.m.

For purposes of our records, we would like you to sign in. However, section 54953.3 of the California Government Code states that you, as a member of the public, are not required to do so as a condition of attendance.

**\*\*PLEASE PRINT\*\***

Name	Representing	Phone	Cell Phone	E-Mail
STEVE HIMLE	WEKA Inc	909-425-8700	909-645-4418	WEKA Inc @ gmail.com
STEVE URBAN	KEC ENGINEERING	951 734 3010	951 203 4520	KHAID@KECENGINEERING.COM
SCOTT KING	CHARLES KING CO.	562-426-2974	760 594-7553	SCOTT@CKC.CO
James Border	Border Excavating	909 525-6133		jame@bci.bid
MARK MENDOZA	ISCO INDUSTRIES	714-559-2009		mark.mendoza@isco-pipe.com
DAVID POPE	EAR Engineering	951 833 0393		d.pope@earmanagement.com
JOHN CHAMMAS	ISCO INDUSTRIES	714-559-2008		john.chammas@isco-pipe.com
HOWARD LIDDLE	COLICH & SONS	310-516-6346	310-329-2846	hliddle@colich.com
Chad Rissinger	TRAUTWEIN CONSTRUCTION	951.369.8901		trautweininc@gmail.com
Jesse Harvard	HD Supply	951 355 3927		jesse.harvard@hdsupply.com
Serge Urnuta	Ferguson Waterworks	951-719-6356		Serge.Urnuta@ferguson.com
DAVID PEREZ	CHRISTENSEN BROTHERS GENERAL	760)240-7236		DAVID@CHRISTENSENBROTHERS.NET
Bree Scott	Ferreira Construction dba Ferreira Coastal Construction	909-606-5900		b.scott@ferreiraconstruction.com

(non-mandatory)

**2:00 p.m.**

**\*\*PLEASE PRINT\*\***

[illegible]

**Santa Ana Watershed Project Authority  
Inland Empire Brine Line  
Reach V Rehabilitation and Improvement Project – Phase 2**

**Pre-Bid Conference**

January 6, 2016

**Attendees**

Steve Himle  
Steve Urban  
Scott King  
James Borden  
Mark Mendoza  
John Chammas  
David Pope  
Howard Liddle  
Chad Rissinger  
Jesse Havard  
Jorge Urrutia  
David Perez  
Bree Scott  
David King  
Mike Metts  
David Ruhl  
Rich Haller  
Carlos Quintero  
Regina Patterson

**Representing**

WEKA, Inc.  
KEC Engineering  
Charles King Company  
Borden Excavating  
ISCO Industries  
ISCO Industries  
EAR Engineering  
Colich & Sons  
Trautwein Construction  
HD Supply  
Ferguson Waterworks  
Christensen Brother's General Engineering  
Ferreira Construction  
TK Construction  
Dudek  
SAWPA  
SAWPA  
SAWPA  
SAWPA

**Introductions**

The Pre-Construction Conference for the Inland Empire Brine Line Reach V Rehabilitation and Improvement Project – Phase 2 commenced at 2:01 p.m. at the Santa Ana Watershed Project Authority located at 11615 Sterling Avenue, Riverside, California. Introductions were made.

**SAWPA and Brine Line Overview** - SAWPA Program Manager David Ruhl provided a brief overview of SAWPA, the Brine Line System and its purpose.

**Reach V Overview** – David stated Reach V of the Brine Line constructed in 2001, is roughly 22 miles in length with pipe sizes ranging from 24-inches to 30-inches of PVC and HDPE pipe. The current maximum flow rate is 4.5 MGD.

**Project Overview** – The project is to install 32" IPS HDPE pipe. Part of the work is draining the existing brine line, abandoning the existing 30-inch PVC pipe. There are four (4) maintenance access structures (MAS) and two (2) mainline valves.



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General Description of Work – The project involves construction of approximately 5,100 linear feet (Bid Schedule A) or 4,300 linear feet (Bid Schedule B) of 32-inch IPS HDPE pipe and construction of four (4) maintenance access structures (MAS). Coordination of shutdown and dewatering of the existing Brine Line to make final connections will be required as well as disposal of the brine.

Bid Schedule A excludes Sheet C-2B. It constructs the new 32-inch IPS HDPE pipeline and associated appurtenances in a shallower trench. Tie-in is to the existing 26-inch HDPE.

Bid Schedule B excludes Sheet C-1 and C-2A. It constructs the new 32-inch IPS HDPE pipeline and associated appurtenances starting with a deep construction. Tie-in is to the existing 30-inch PVC.

Dewatering and Disposal of Brine – David displayed the profile of the Reach V Brine Line from Eastern Municipal Water District's (EMWD) discharge point to the I-15 and the 91 Freeway. There are several siphons, dips and valleys. David pointed out the portion of the siphon that would need to be drained and disposed of when it comes time to make the tie-ins. Record drawings have been provided in the specifications of SAWPA's system and EMWD's system for this area where the brine volume can be calculated. There is a maintenance access structure (MAS) at the top of the hill on Nichols Road that can be used as a discharge point to put the brine back into the system. Carlos Quintero stated there are valves at the Pressure Sustaining Station that can be closed to isolate a portion of the flow.

*Question:* The rest of the line will be drained to discharge into?

*Response:* In regards to flow downstream of the project area, the Brine Line is flowing in the northerly direction. Once the system is shut down the area north of the project area approximately Nichols Road and Alberhill Ranch Road will drain to the North of the project area.

Contract Documents - Contract Documents are available for purchase from SAWPA for \$60 or downloaded from [www.sawpa.org](http://www.sawpa.org). Prospective Bidders must register as a bidder by calling 951-354-4220.

General Engineering Contractor's License Class A is required. California Prevailing Wages or Federal Davis Bacon Wage Rates apply, whichever is higher. A Bid Security of 10% of the total bid amount will be due (Certified or Cashier's Check, or Bid Bond). Liquidated damages apply if you don't meet the 3-day shutdown period and for project completion.

In terms of award for Bid Schedules A and B, you will have to complete both bids (Schedules A and B). The total of the Base Bid will be considered for each Bid Schedule and award to the lowest responsive, responsible Bidder. Only one Bid Schedule will be awarded and that will be determined by the Owner based on the bids received.

Due to the project receiving Clean Water State Revolving Funds, prime contractors are required to conduct and document outreach that demonstrates six (6) Good Faith Efforts to ensure opportunities for DBEs to compete on the project. Entities can no longer self-certify therefore, DBEs must be certified at the Bid Opening. Please utilize the information found in Appendix D

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to located Certified DBEs. EPA Forms 6100-3 and 6100-4 must be completed and submitted with the bid.

The "Supplier Certification Letters" must be submitted with the bid. Sample certification letters are included in Appendix H.

Contractor References and Qualifications (see page 39 of the specifications) - Three (3) references for projects completed by the Bidder in which the Bidder has installed HDPE pipe similar to that proposed for this project. Minimum of five (5) years of experience in large diameter pipeline construction (18-inch diameter and larger), and mechanical construction related to water/wastewater infrastructure. Bidder also must have successfully installed a minimum 150,000 linear feet of HDPE pipeline with a nominal pipe diameter of 18 inches or greater. There have been questions regarding the 150,000 lf HDPE qualification so we will review that qualification and if there are any changes they will be addressed by addendum.

The superintendent must be named and a resume provided and meet the minimum qualifications outlined in the specifications. SAWPA has sole discretion and shall make the final determination as to whether the Bidder and superintendent meet the qualifications stated in the specifications.

*Question:* In the past SAWPA has done 150,000 lf of pipe in general as the minimum qualification. This one is HDPE specific. There probably is no one present today that can meet that qualification.

*Response:* The issue will be reviewed and if there are changes they will be addressed by addendum.

Summary of Work (Section 01010) Work Restrictions - Contractor shall develop and submit proposed traffic control plans to the City of Lake Elsinore and any other agency having jurisdiction over the work area to obtain necessary approvals and permits for completion of the work at no additional cost to the Owner.

*Question:* Has a construction manager (CM) been chosen?

*Response:* Not at this time.

Summary of Work (Section 01010) Construction Constraints - Once flow in the Brine Line is shut down, the Contractor shall complete all work necessary for connection of the new and existing pipeline systems within a maximum of three (3) calendar days. The specifications include a suggested sequence of work that indicates installing the 32-inch HDPE pipeline first and then scheduling the 3-day shutdown of the system. During that time the Contractor needs dewater and make the tie-ins.

Contractor shall notify owner three (3) weeks prior to system shutdown. SAWPA has two desalters and a power plant who are upstream dischargers. These dischargers are critical utilities for the area. There are liquidated damages if the 3-day shutdown timeframe is not met. Failure to complete all work and return the brine line to complete and operable function within the available shutdown period may necessitate re-establishment of Brine Line connectivity and reinstatement of Brine Line flows.

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Contractor shall have sufficient facilities available to dewater the Brine Line to maintain the shutdown schedule. Contractor shall use provided record drawings to determine the volume of brine required to be removed from the existing Brine Line to fully dewater the pipeline. Cleanup of any and all brine discharges, including any associated fines, is the sole responsibility of the Contractor. The Contractor is responsible for brine spills related to the work, regardless of whether they occur within or outside the immediate area of work.

Important to Note:

- Questions are due by close of business on January 14, 2016 at [druhl@sawpa.org](mailto:druhl@sawpa.org)
- Bids are due on January 21, 2016 at 10:00 a.m. at the SAWPA offices
- Bids will remain valid for 90 days from the Bid Opening
- Anticipated Commission approval and award Tuesday, February 16, 2016
- Work to be completed within 180 days
- Engineer's Estimate
  - Schedule A \$2,046,000
  - Schedule B \$1,890,000

Questions

*Question:* In regards to the six (6) steps for the DBE requirements, is the contractor required to make contact with DBEs within 30 days prior to bid?

*Response:* Posting solicitations for bids or proposals for a minimum of 30 calendar days before the bid opening date in order to make information on forthcoming opportunities available to DBEs is a requirement of the owner. However, prime contractors ARE REQUIRED to comply with the requirements established in Appendix D of the specifications regarding MBE/WBE/DBE participation in the bid process, including the outlined Good Faith Efforts. SAWPA strongly encourages prime contractors to utilize the information found in Appendix D to Find Certified MBEs and WBEs. Specifically page 3 of Appendix D states:

*“Although OSBP (Office of Small Business Program) does not maintain a list of EPA certified firms, there are several resources available to the public to locate firms that are considered EPA DBE certified.*

- 1. State DOT DBE Directories*
- 2. Central Contractor Registration (CCR)*
- 3. SBA Dynamic Small Business Search”*

*Question:* Along the edge of the AC along Nichols Road, it looks as though it's been repaved within the last 5 years and it says that if it's been repaved within the last 5 years that it would be up to jurisdiction/city to decide how it is repaired and more stringent city engineer requirements may be imposed. Will Bidders know the requirements for what's existing so that it can be bid accordingly? The cross section is in the plans but then it states the aforementioned.

*Response:* The City has reviewed the drawings and did not identify the requirement. Nichols Road is to be improved in the near future under a separate project.

*Question:* The new line going in for the plan is 3 to 5 feet to centerline. But at the beginning when you cross the road at Pierce it shows that it's right in the edge of pavement there. Can that line be relocated a couple of feet from the pavement?



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*Response:* The alignment is not based on where the edge of pavement is shown today, it's based on where the road will be in the future. On the drawings we have shaded back the plan for the future so you can see the existing road and the future road. There are also future utilities on the plans that are not there today. Vertical grade will be very important because particularly in one spot there is storm drain above and a storm drain below. It will be critical that the contractor is on grade in those particular areas. The line parallels the future alignment in where the center median will be so we're a certain distance off of those so that the manholes don't get into the center median. This is why it does not parallel currently. At the connection point further up Nichols Road we had to make sure we were not into future or existing facilities.

*Question:* You call for having a burrito wrap around the pipe zone with material below  $\frac{3}{4}$  inch and larger to stabilize below are you anticipating using that  $\frac{3}{4}$  inch below, or is that mainly going to be where you are directly over the existing pipe and putting in on the first 800 feet? If it's 85% or less compaction, there may be a concern where you are directly over the existing pipeline. Normally that should not be an issue.

*Response:* See clarification in Addendum 1, Part 3.

*Question:* When is the notice to proceed anticipated?

*Response:* March 2016 if the SAWPA Commission awards in February.

*Question:* Is it known if there is much lead time on HDPE material ?

*Response:* Bidder should obtain that information by contacting the material supplier. An attendee mentioned that it could be 3-4 weeks.

*Question:* Regarding the qualifications. Will the supplier/person doing fusion be taken into consideration?

*Response:* The required qualifications apply to the Prime Contractor. Qualifications for the HDPE fusion contractor are in specification Section 15061.

*Question:* Blow-offs and where to drain.

*Response:* Drain locations were displayed and our shown on the record drawings. In the interest of time during the shutdown, the Contractor can dewater to below the point of connections at the upstream and downstream tie-in locations. After the shutdown, you will have the opportunity to drain the entire pipeline.

*Question:* Will that require a high-line to do so?

*Response:* You can propose a high-line or trucking the flow to an approved location. There is a maintenance access structure on Nichols Road downstream of the project location.

*Question:* Can a CLSM be used to abandon the existing pipeline? Like a cell-crete?

*Response:* Yes, in coordination with the Owner or his assigned representative.

*Question:* Are there other projects coming up.

*Response:* Not at this time.

The meeting ended at 2:40 p.m.

## **CONTRACTOR REFERENCES AND QUALIFICATIONS**

The Bidder shall provide at least three (3) references in the spaces provided on the following pages for projects completed by the Bidder as a prime contractor, in which the Bidder installed pipeline of similar construction to that proposed under this Project. The provided references shall include one reference pertaining to high density polyethylene (HDPE) pipe materials. Failure to submit references with the “BID” may result in the Bid being deemed to be nonresponsive.

The Bidder shall list as reference projects, work completed that:

- Included pipe for water, sewer, recycled water or brine pipelines;
- Used similar types of materials and techniques as will be used on this project;
- Were of similar size and complexity to this project;
- Were completed within the last five (5) years; and
- Were for a public agency in the United States of America.

The Bidder (Prime Contractor) shall have a minimum of five (5) years of experience in large diameter pipeline construction (18-inches in diameter or larger) and a minimum of five (5) years of experience in mechanical construction related to water/wastewater infrastructure (e.g. pump stations, pressure reducing stations, treatment plants, etc.). The Prime Contractor shall have successfully installed a minimum of 150,000 linear feet of pipeline with a nominal pipe diameter of 18-inches and greater.

The Superintendent of the Prime Contractor (Bidder) proposed for this Project shall be named and a resume of his/her experience provided. This Superintendent’s experience must include three (3) successfully completed public works projects as a Superintendent with projects involving large diameter pipeline construction and mechanical construction related to water/wastewater infrastructure (e.g. pump stations, pressure reducing stations, treatment plants, etc.) with a minimum value of each project of \$1,000,000, within the last five years. Bidder agrees that the Superintendent named in his Bid will remain on this Project until completion of all relevant Work, unless substituted by personnel of equivalent experience and qualifications approved in advance by the Owner.

The Owner shall have sole discretion and make the final determination as to whether the Bidder and Superintendent meet the above qualifications based on information provided at the time of the Bid. Contractor shall not be allowed to submit additional information after the Bid Opening to augment or supplement the information provided with the Bid.

Information submitted below must be correct. Failure to provide correct names and numbers may result in the bid being deemed nonresponsive.

## **SECTION 01590**

### **FIELD OFFICE**

#### **PART 1 - GENERAL**

##### **1.01 WORK INCLUDED**

- A. Temporary field office and accessory equipment for Owner (Owner's Representative).
- B. Equipment furnished under this specification shall be for exclusive use of the Owner and its representatives.

##### **1.02 BUILDING CONSTRUCTION**

- A. Provide trailer for Owner, designed, constructed and installed for intended purpose of serving as field office for construction project. All materials and equipment specified herein shall be of new or like new in appearance and function. Field office and appurtenances or accessories shall remain Contractor's property. Remove field office from site after completion of project.
- B. Building shall be of watertight construction, fabricated from all-metal frame and all-metal exterior, sides and roof and insulated double walls, floor, and roof. Field office characteristics shall be as specified below in Table 1. Provide 8-foot-minimum ceiling height. Provide offices, workroom, and restroom as specified.
- C. If multiple rooms are required per Table 1:
  - 1. Provide floor-to-ceiling walls to separate rooms. Do not use temporary partitions.
  - 2. Provide inter-connecting doors between interior rooms.
  - 3. Provide floor tiles in each room.
  - 4. Provide windows in building, with at least one window for each room. Provide two entrance doors to building, one at each end. Provide cylinder lock and key on each door. Provide 6 sets of keys to Owner.
- D. Provide electricity service.
- E. Pay costs for electricity service.
- F. Provide exterior lights at entrances.
- G. Provide upkeep and maintenance of temporary field office and equipment.
- H. Provide all-weather vehicle access and parking.
- I. Remove field office from site upon acceptance of entire Work by the Owner.

##### **1.03 ACCESSORY EQUIPMENT**

- A. Electrical Outlets and Lighting:

1. Provide electrical fixtures, outlets, lighting, and wiring using Underwriter's Laboratory, Inc. (UL) approved devices and meeting National Electric Code (NEC).
2. Provide ample electric power to operate installed systems and appurtenances.
3. Provide warm white fluorescent light fixtures to evenly illuminate the rooms to a minimum of 50 foot-candles and an average of 70 foot-candles measure at desk height. Provide a minimum 60-watt light fixture in the lavatory facility. Provide light switch in each room.
4. Provide two (2) duplex 120-volt outlets in each room (one only in restroom).
5. Protect all electrical circuits with circuit breakers – fuses are not acceptable.

B. Appurtenances:

1. Provide railed stairway and landing at entrances.
2. Provide sign on entrance doors reading: "Santa Ana Watershed Project Authority Field Office".
3. Provide Tri-Class (ABC), Dry Chemical Fire Extinguisher, 10-pound

**1.04 SUBMITTALS**

- A. Submit copies of permits and approvals for construction, as required.
- B. Provide drawings of the trailer demonstrating conformance with this specification.
- C. Provide ample electric power to operate installed systems and appurtenances. Submit electrical load calculations.
- D. Submit air conditioning sizing calculations, accounting for local environmental conditions.
- E. Copies of maintenance contracts and contact information for same.

**PART 2 - PRODUCTS (NOT APPLICABLE)**

**PART 3 - EXECUTION (NOT APPLICABLE)**

**END OF SECTION**

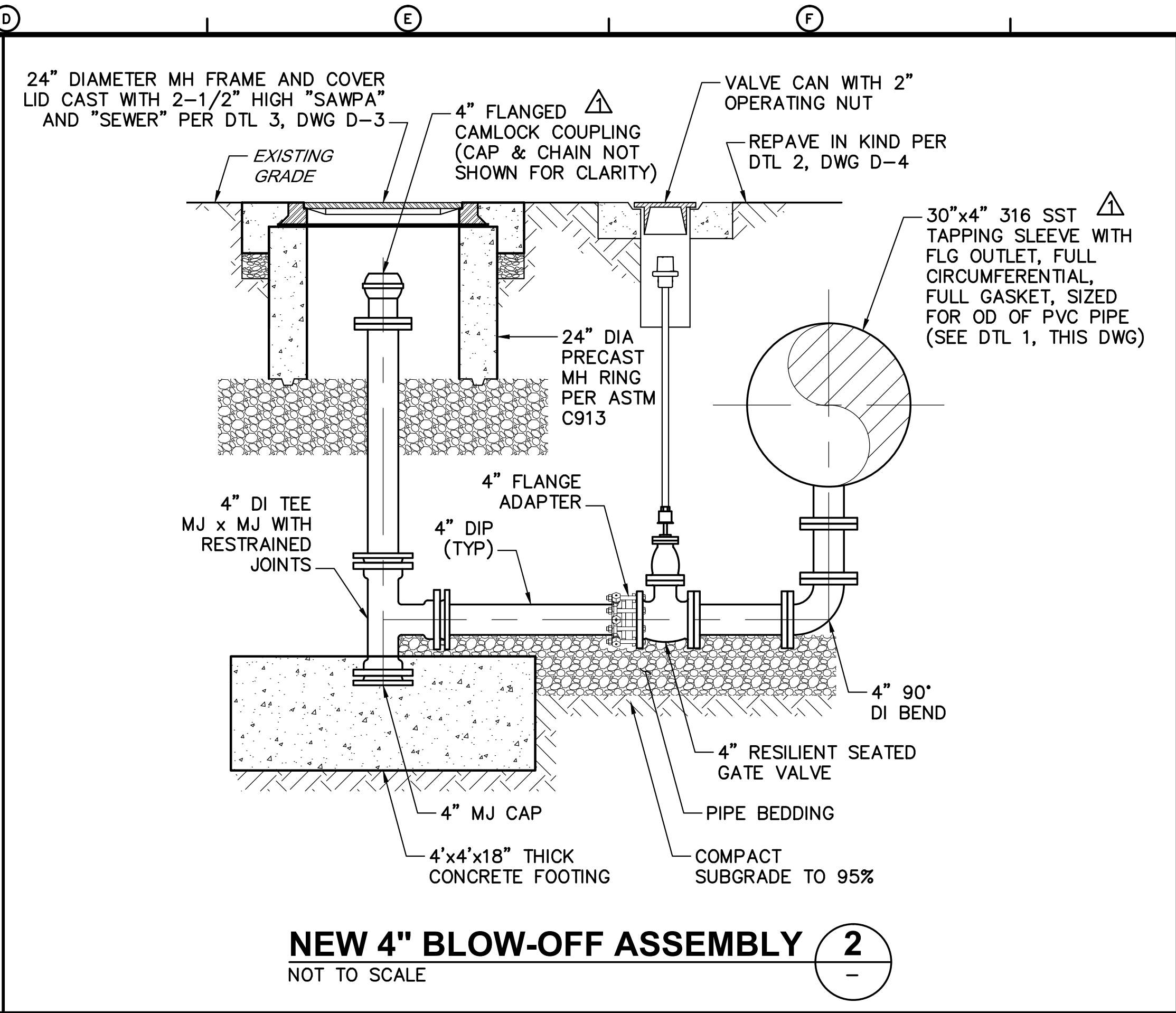
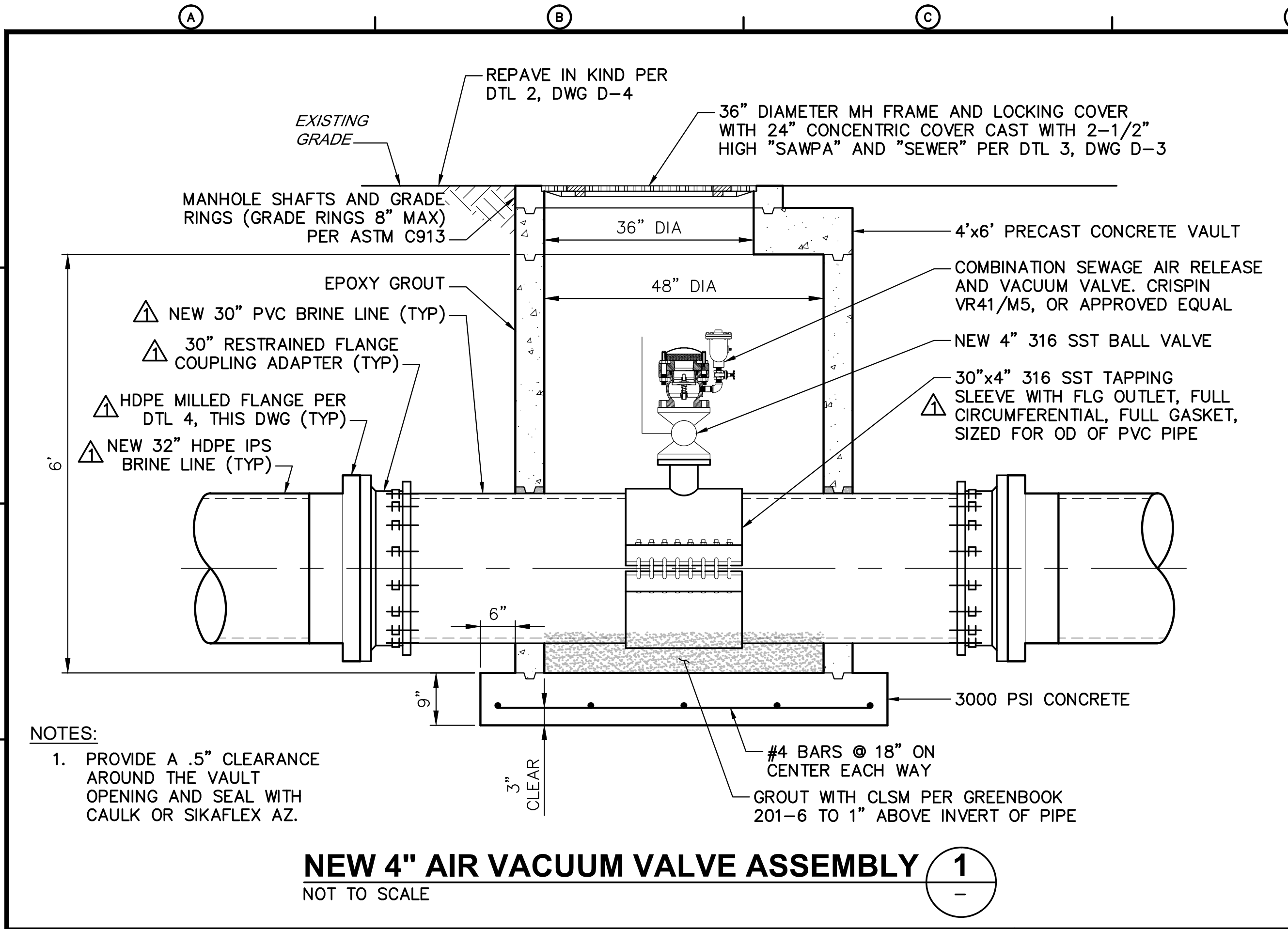
**TABLE 1: REQUIRED FIELD OFFICE CHARACTERISTICS****Standard Specification**

ITEM	DESCRIPTION
<b>General Description</b>	
Quality	Class "B" Field Office
Office square footage	350 SF minimum
Number of Offices	Two (2) Minimum Office Floor Space = 100 SF
Doors – Exterior	Two (2) – 1 at each end of building Solid core, all metal frame and door Cylinder deadbolt lock and key. All doors keyed alike. Provide 5 sets of keys.
Doors – Interior	
Windows	1 per room, minimum, each 22 sf minimum Interior Treatment: horizontal louver blinds Exterior Treatment: security bars
<b>Amenities and Services</b>	
Air conditioning	all enclosed space thermostatically controlled
Water Service	Bottled Water Services
Janitorial Service	Required, Weekly
Pest Control	Required, Minimum Monthly
<b>Office Equipment and Supplies</b>	
Desks	One in each Office Minimum 3'D x 6'W x 29" H Locking Drawers
Chairs	Three (3) Cushioned, office chairs, complying with latest ergonomic standards including, but not limited to: swiveling five-castor base, adjustable height, locking back, adjustable seat back for height and angle, adjustable arms. Eight (8) Cushioned, folding chairs
Layout Tables	One (1) folding table Minimum 3'D x 6'W
Filing Cabinets	One (1) Required 18" W x 30" D x 52" H Four (4) Drawers, Locking
Bookcases	One (1) Required Minimum 18" D x 48" W x 60" H Five (5) Adjustable Shelves
Whiteboards	One (1) Required 4' x 6', with Two (2) sets of multi-color markers
Wastebaskets	Two (2) Trash Required Two (2) Recycle Required
Fire Extinguisher	One (1) Tri-Class (ABC), Dry-Chemical Fire Extinguisher, Minimum 10-lbs

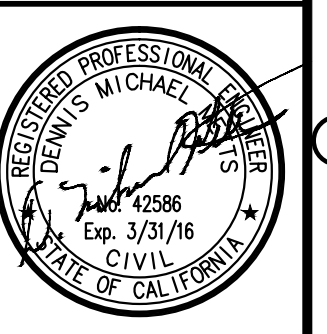
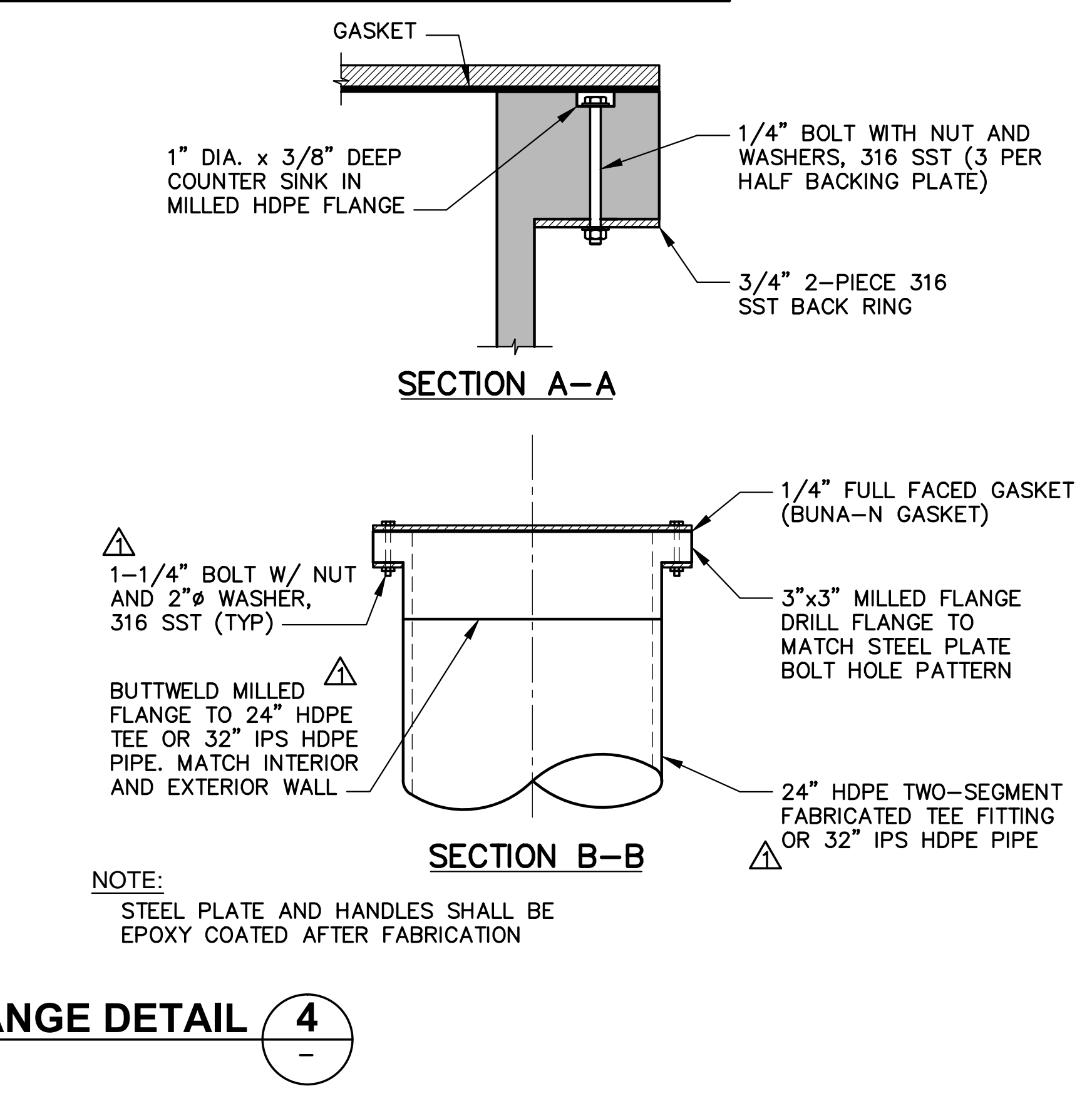
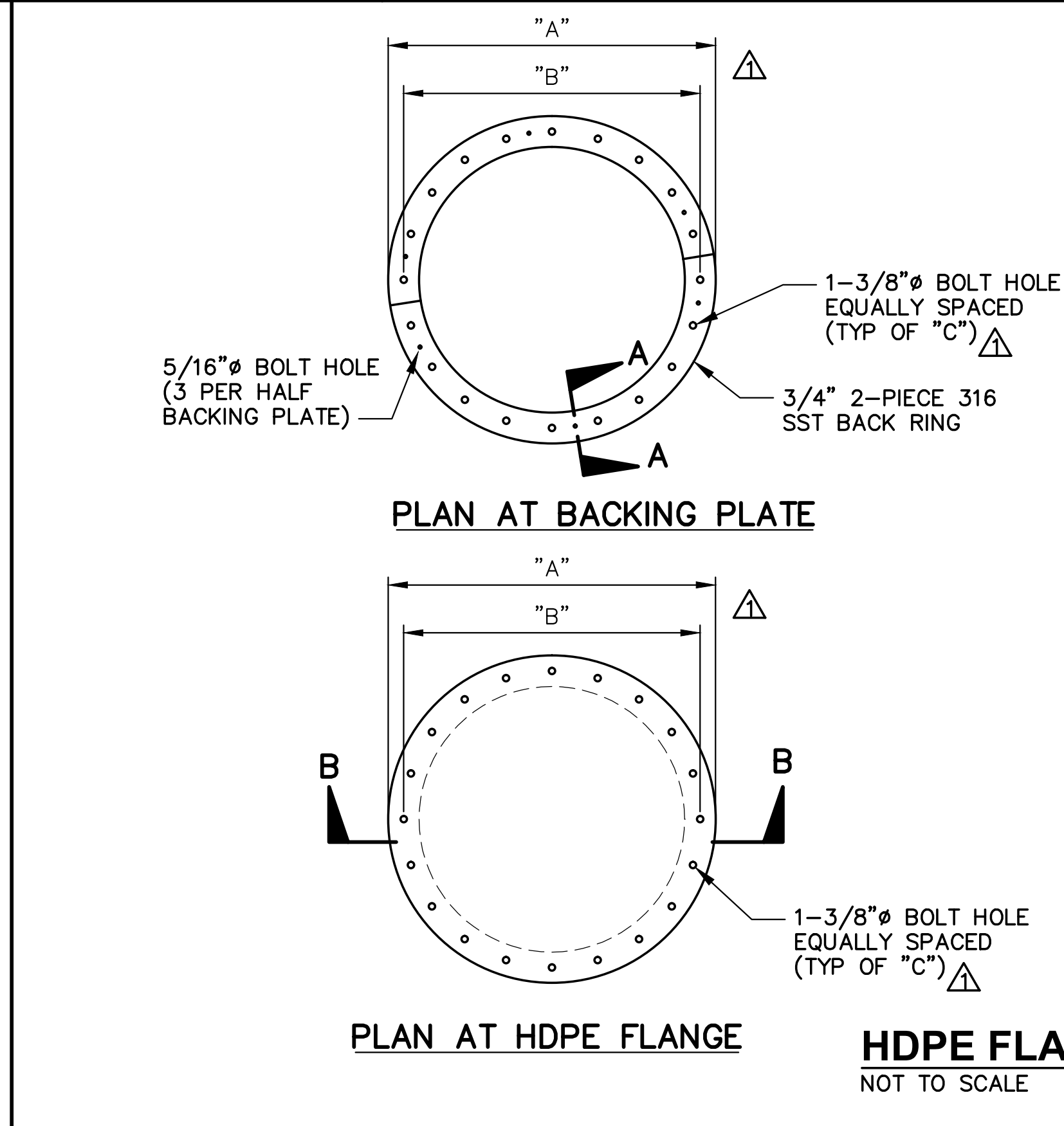
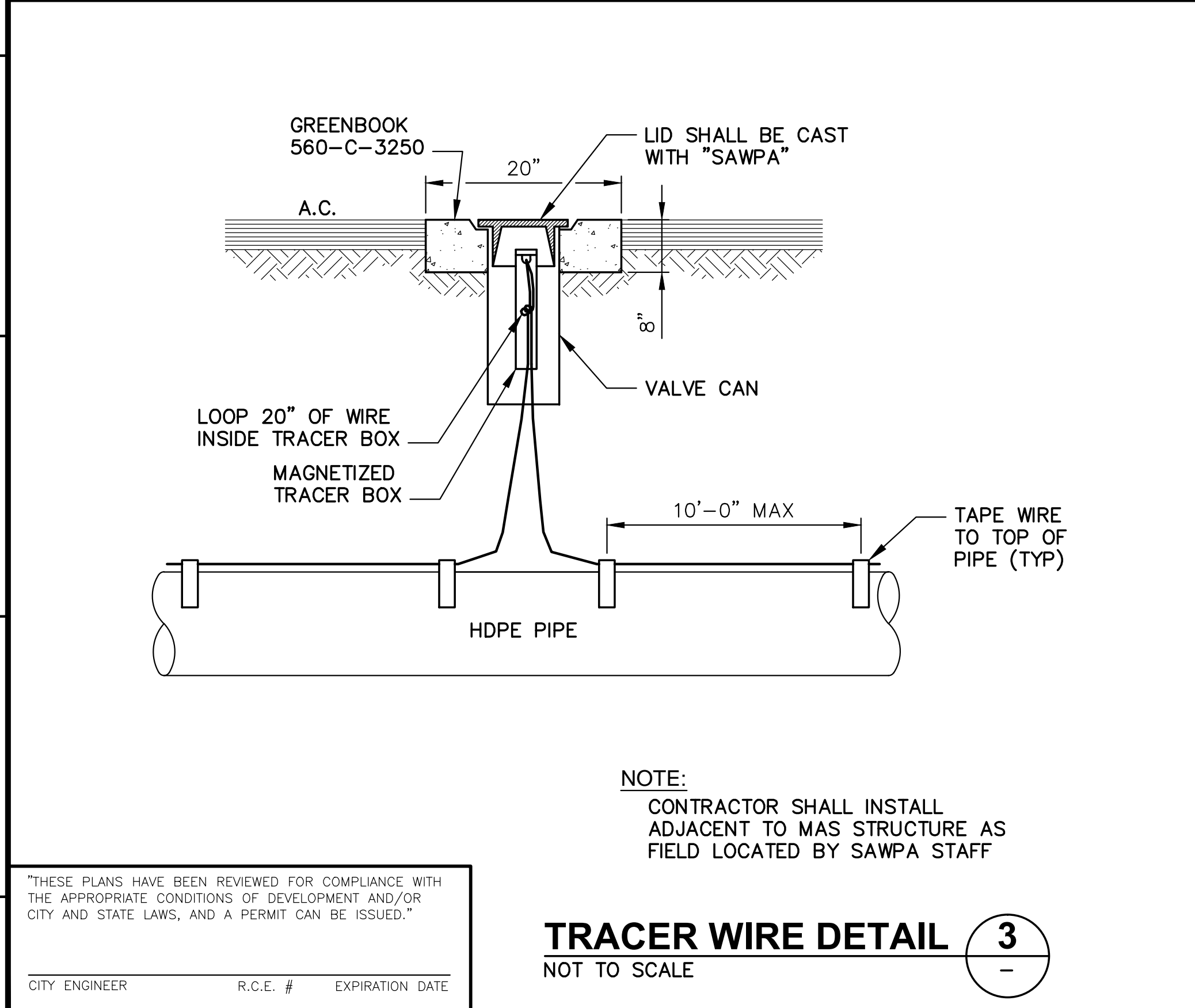
<b>Sanitary Facilities</b>	
Toilet	Required. Portable with wash facilities
Shower	Not Required
Exhaust Fan	Required, Ventilated to Exterior of building



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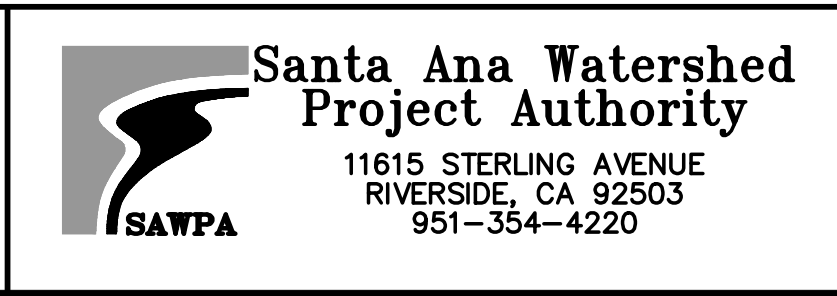


HDPE FLANGE DIMENSIONS			
SIZE	OUTSIDE DIAMETER ("A")	BOLT CIRCLE ("B")	NO. OF BOLTS ("C")
24"	2'-8"	2'-5.5"	20
32"	3'-2.75"	3'-0"	28



REV. NO.	DATE	DRWN	CHKD	CITY APPROVAL	DATE	REMARKS
1/13/16	CJD	DMM	-	-	-	ADDENDUM NO. 1: REVISED DTLs 1, 2, 4 & ADDED DIM SCHEDULE

DESIGNED BY:	DMM
DRAWN BY:	CJD
SHEET CHK'D BY:	DMM
CROSS CHK'D BY:	-
APPROVED BY:	-
DATE:	AUGUST 2015



INLAND EMPIRE BRINE LINE REACH V REHABILITATION & IMPROVEMENT PROJECT PHASE 2 DETAILS - 3
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PROJECT NO. FILE NAME:	7616.0004
DRAWING NO.	D-3
SHEET NO.	12 OF 13