



**Addendum No. 4**  
**OSWWTP Phase 1 Replacement Project**  
**Corolla, Currituck County, North Carolina**  
**June 24, 2015**

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The following shall take precedence over the plans and specifications of the above named project and shall become part of the Contract Documents. Original items of the specifications, contract documents and information indicated on the drawings not herein modified, amended, voided or suspended shall remain in effect.

**General**

The following are questions posed by plan holders. The questions are in *italicized* text and the answers are in **bold** text.

1. *What is the last date you will accept questions?*

**In order to allow for an adequate amount of time to prepare a response to questions final questions must be received by 5 pm on July 8, 2015.**

2. *On sheet HW2 there is a note next to the (2) high floats which reads "Floats within Chamber #1 to be within a 36" pipe fully perforated with 1/2" diameter holes" How high should the 36" pipe be and can we use HDPE perforated pipe and anchor with (3) 3/4" stainless steel straps to the sidewalls.*

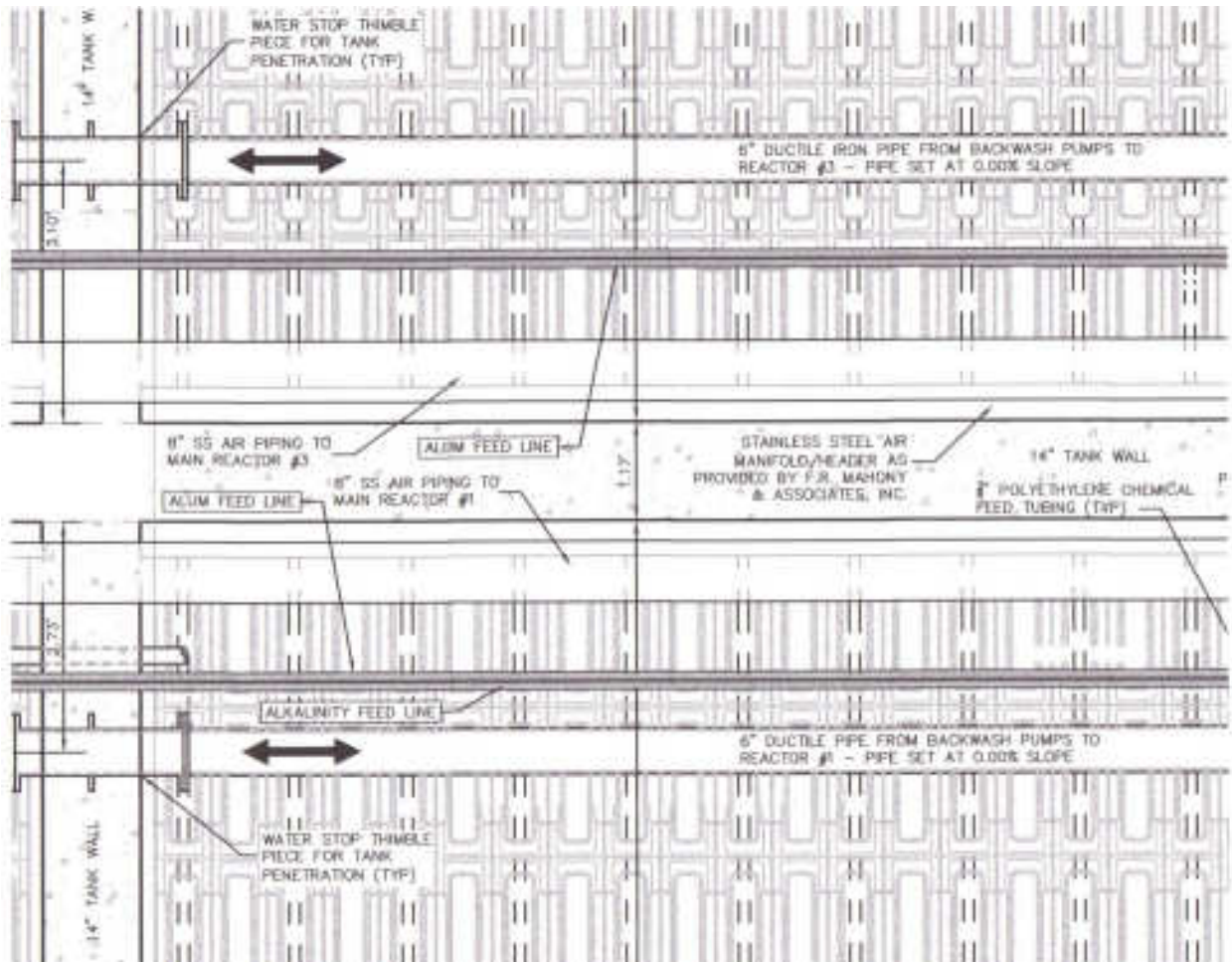
**The pipe should extend from the floor of the chamber to 1 foot above the maximum liquid level (el. 24.83'). Yes, fully perforated HDPE pipe is acceptable for this application and the strapping method proposed is adequate.**

3. *On sheet WW2 the 2" decant pipe and the (2) 6" Sch. 80 Backwash pipes that span over 23 feet across Reactor 2 & 4, how can we support these pipes?*

**The 2" decant pipe is shown in an offset location for clarity. This pipe can be strapped to the underside of the access walkway or to the stainless steel air piping with pipe**

straps.

The 6" sch 80 PVC backwash line material crossing Main Reactor #2 & #4 has been changed to a Ductile Iron Pipe spool piece with flanged ends to connect to the water stop style tank penetration pieces. See the detail below.



4. *Also is it safe to say that the 3” force main and 12” return can be supported with wall brackets similar to detail S-900 on sheet GS-8.*

**Yes**

5. *According to note “Mat Foundation Settlement Water Treatment Plant” on sheet G2, will vapor barrier be required under WWTP and Headworks slab.*

**A vapor barrier is not required under the headworks or WWTP.**

6. *Can you provide the name of a manufacturer of the water stop thimble piece for concrete tank wall penetrations?*

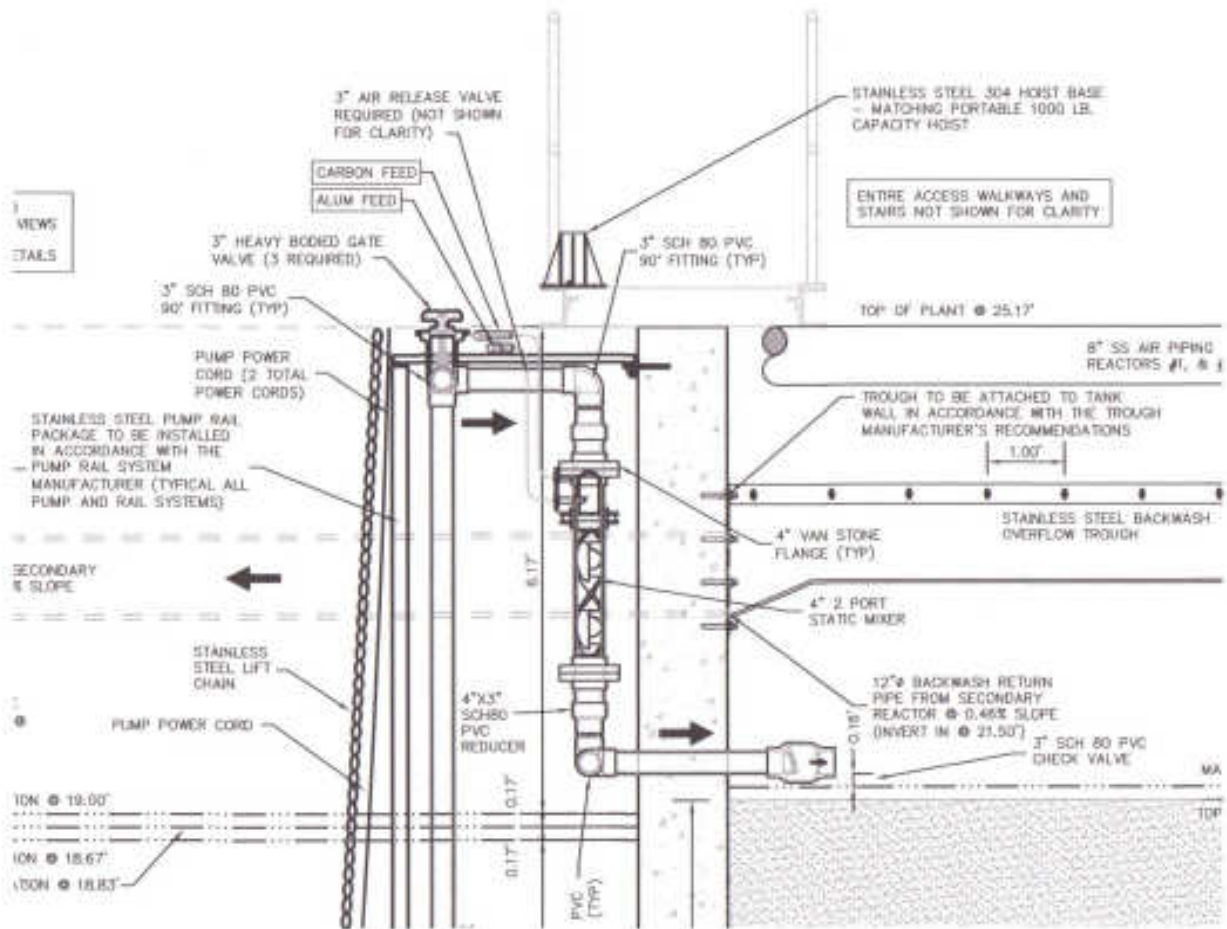
**Examples of wall penetration sleeve manufacturers include American, A.S.A. MFG., Inc., Metraflex and GPT. Sample cut sheets from these manufacturers have been attached to the end of this addendum. The cut sheets number 4 pages in total.**

7. *Can pre-cast products be substituted for the cast-in-place concrete products?*

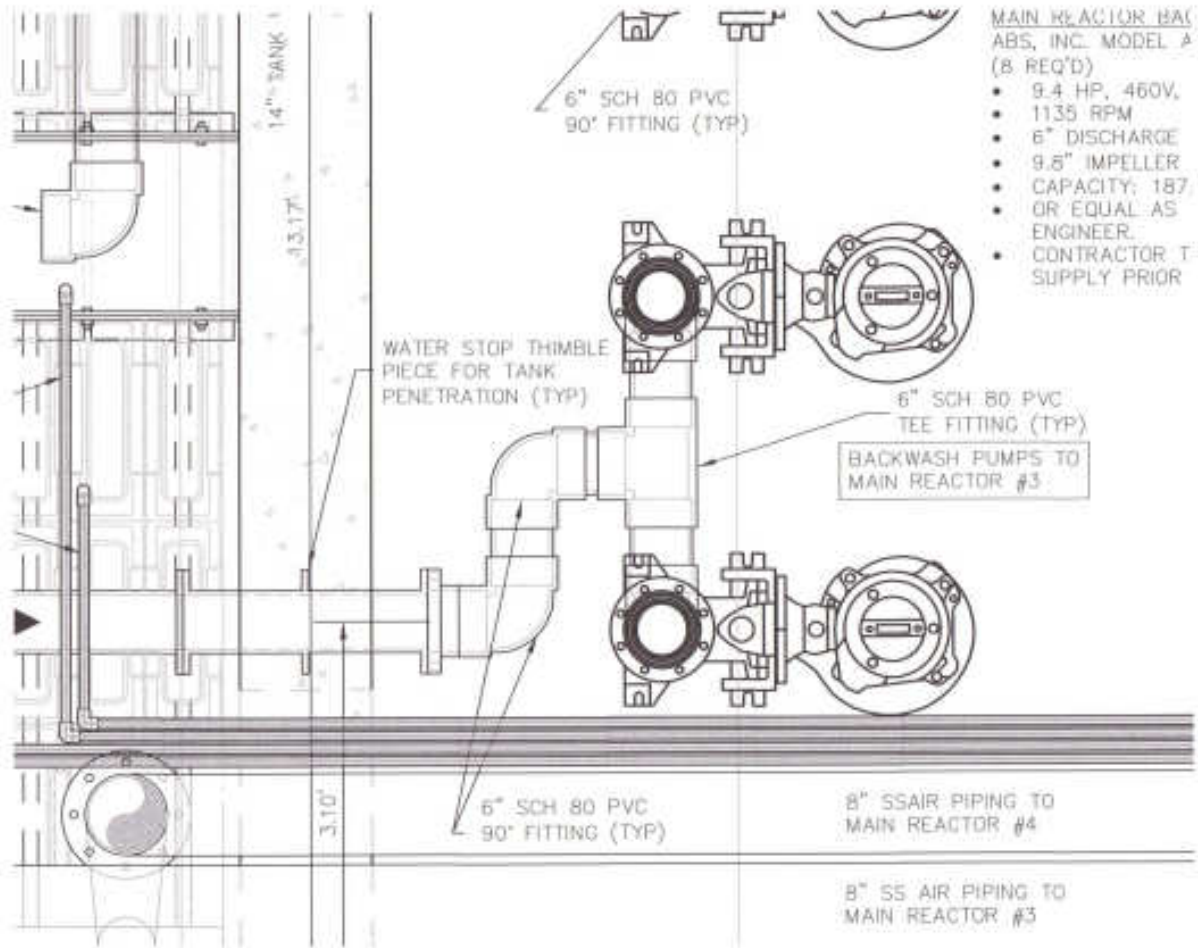
**No with one (1) exception which is the influent meter vault.**

## Plans

- The 2 port Static Mixer located within the secondary reactor dosing pump discharge piping will be upgraded from the originally proposed 3" diameter to a 4" diameter model. The discharge piping diameter is 3" and two (2) 4" x 3" sch 80 PVC reducer fittings will be used to make the transition. See the detail below.



2. As discussed in the pre-bid meeting the inclusion of the water stop style spool piece at all tank penetrations below the normal working liquid or maximum liquid levels will trigger the need for additional flange pieces to make the transition between the thimble piece and the connecting pipe. This piece may also trigger an adjustment to the final positioning of some discharge piping. See an example in the detail below.





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## Wall Pipe



### Product Description

Centrifugally cast wall pipe is manufactured for use in piping water through walls in water treatment plants and pump stations.

All AMERICAN fabricated wall pipe uses ductile iron components in combination with the following: cast or threaded on mechanical joint bells (can be tapped for studs), flanges (can be tapped for studs) and welded-on collars.

Wall pipe is normally fabricated of special thickness class 53 ductile iron pipe, but it may be furnished with minimum classes unless threaded flanges or threaded mechanical joint bells are included or unless specified otherwise.

Wall pipes with centrifugally cast mechanical joint bells will be provided instead with heavy-duty steel key locking thread inserts to accept threaded studs.

Flanges and mechanical joint bells of minimum-length pieces should normally be specified by the purchaser as "tapped for studs" to enable assembly of joints flush with the wall face.

Minimum-length pipes with plain ends in many cases do not allow enough room between the plain end and the collar to assemble joints. Consult AMERICAN for plain end joint assembly needs, which normally require longer pipes.

### Related Products

[Thrust Collars](#)[Mechanical Joint Pipe](#)[Flange Adaptors](#)[Fabricated Outlets](#)[Flanged Joint Pipe](#)

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## PVC Waterstop Fittings - Sleeve Design

[Waterstop Fitting - Sleeve Design - Download Datasheet Here](#)

Our PVC sleeve design waterstop fittings are the most cost effective solution for eliminating weeping and leaks around pipe penetrations.

Available in 1 1/2" and 2" fitting sizes, these waterstops are a fraction of the cost of brass waterstop fittings and non-metallic, so no grounding is needed. When encased in concrete, these waterstops will create a hydrodynamic waterstop.



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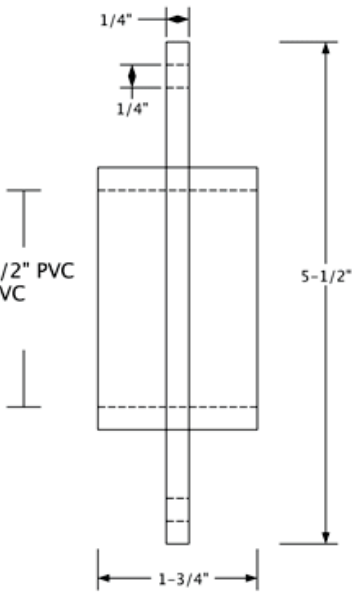
PVC waterstop fittings are fast and easy to install -- simply prime and glue in place. Wire floor fittings tight and level during floor pour.

- Cost effective solution eliminates weeping around pipe penetrations
- Fraction of the cost of brass waterstop fittings
- Non-metallic -- no grounding
- Available in 1 1/2" & 2"
- Hydrodynamic waterstop when encased in concrete
- Simply prime and glue in place
- Wire floor fittings tight and level during floor pour

**Typical Installations**

Choose heavy duty A.S.A. components for all your Aquatics Projects:

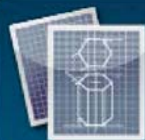
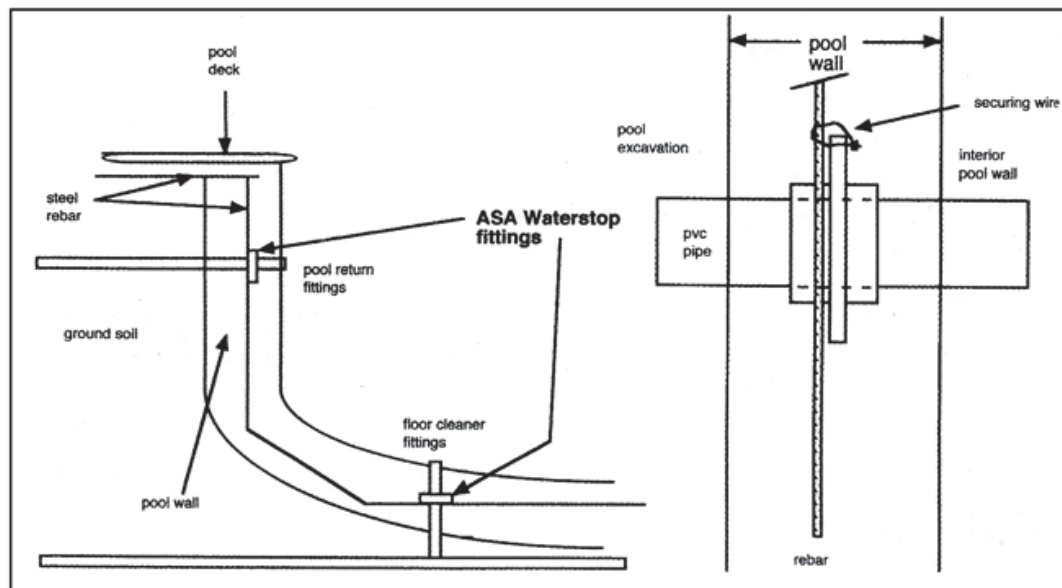
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- 1 59/64" for 1 1/2" PVC
- 2 13/32" for 2" PVC

Waterstop - Sleeve Design	
Part #'s	Description
1 1/2"	
PVC-40-301	PVC Waterstop Sleeve Fitting
2"	
PVC-40-302	PVC Waterstop Sleeve Fitting





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# WALL PENETRATION SEALS

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## Wall Sleeves

### Cleaner installation for your piping system

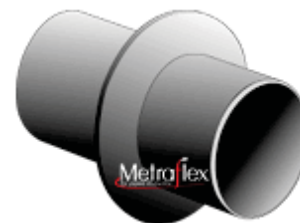
Available in steel or PVC, wall sleeves are positioned in the wall before the concrete is poured. Wall sleeves offer a cleaner installation for your engineered piping system.

MetraSeal pipe gap seals work with or without wall sleeves.



### Standard Weight Steel or PVC Pipe Sleeve

SLEEVE NOMINAL PIPE SIZE	SLEEVE ACTUAL I.D.	STANDARD SLEEVE LENGTH*	STANDARD WATER-STOP HEIGHT*
2"	2.067"	12"	2"
2.5"	2.469"	12"	2"
3"	3.068"	12"	2"
3.5"	3.548"	12"	2"
4"	4.026"	12"	2"
5"	5.047"	12"	2"
6"	6.065"	12"	2"
8"	7.981"	12"	2"
10"	10.02"	12"	2"
12"	12.00"	12"	2"
14"	13.25"	12"	2"
16"	15.25"	12"	2"
18"	17.25"	12"	2"
20"	19.25"	12"	2"
22"	21.25"	12"	2"
24"	23.25"	12"	2"
26"	25.25"	12"	2"
28"	27.25"	12"	2"
30"	29.25"	12"	2"
32"	31.25"	12"	2"
34"	33.25"	12"	2"
36"	35.25"	12"	2"
38"	37.25"	12"	2"
40"	39.25"	12"	2"
42"	41.25"	12"	2"
44"	43.25"	12"	2"
46"	45.25"	12"	2"
48"	47.25"	12"	2"
50"	49.25"	12"	2"
52"	51.25"	12"	2"
54"	53.25"	12"	2"



\*Optional lengths and heights available. Please contact your Metraflex representatives.