



Change Order (CO) No. 002



Owner: City of Snoqualmie
 Project: WRF Phase 3 Improvements
 Project No: SNQ 22-0040
 Engineer: **RH2 Engineering, Inc.**
 Contractor: Prospect Construction, Inc.

You are directed to make the following changes in the contract documents.

Description: Provide the changes outlined in documents PCO #31.

Document(s) Support Changes: PCO #31.

RECOMMENDED:

APPROVED:

APPROVED:

By _____
Engineer

By _____
Contractor

By _____
Owner

By signing this form, the Owner and the Contractor agree to release all claims to additional work or credit or delays, occurring prior to the Date of Issuance, which have not been identified in this Change Order form.

No.	Proposed Change	Cost
1	Digester 1 SST Air Gap Pipe	\$ 28,611
2	Digester 2 SST Air Gap Pipe	\$ 20,705
3	Digester 2 Temporary Pumping	\$ 7,842
4	Basin 1 Bubble Mixer	\$ 2,840
	<u>Change Order 2 Subtotal</u>	<u>\$ 59,998</u>

1/27/2025
RH2 Engineering
22722 29th Drive, Suite 210
Bothell, WA 98021

Attn: Marine Behr, PE

Re: Snoqualmie WRF Phase 3
PCO 31 - RFI N - RFI N Digester Aeration Piping Mods Pricing
PCO 31 – additional Work Request T&M

Dear Ms. Behr,

Please find attached costs associated with PCO 031.

Per 00 07 00-5.1.A.2.a; RH2 RFI N was sent on 10/22/2024 and required new routing for air piping in digesters 1 & 2

Per 00 07 00-5.1.A.2.c; PCI anticipates No Time impact

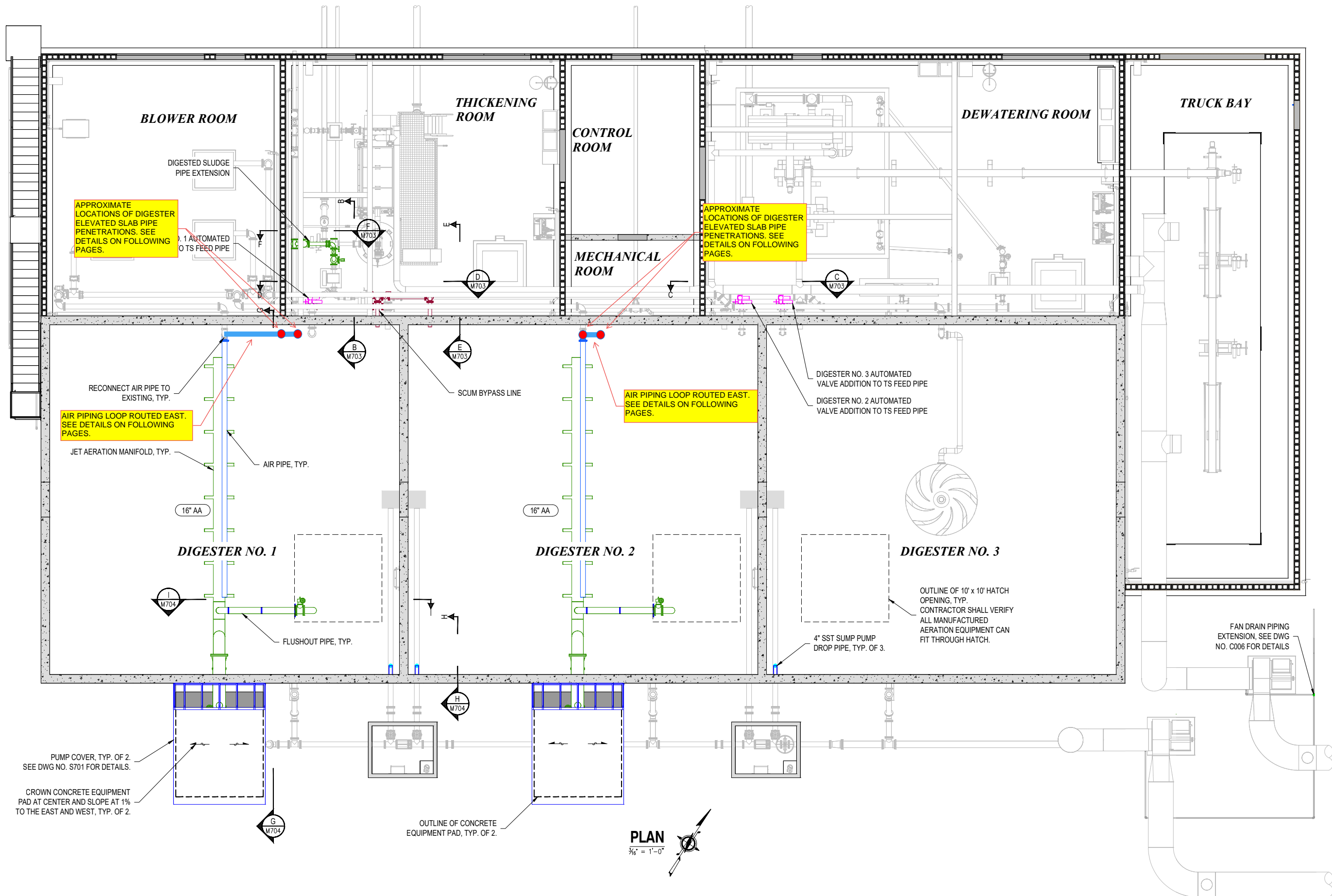
Per 00 07 00-5.1.A.2.d; The request adds additional work which is not required by the plans/specs.

Per 00 07 00-5.1.B; and per 6.2.E.1&3 The total cost for this change is \$59,998.

Please find associated backup attached as required per 00 07 00-6.2.E.2.

Sincerely,

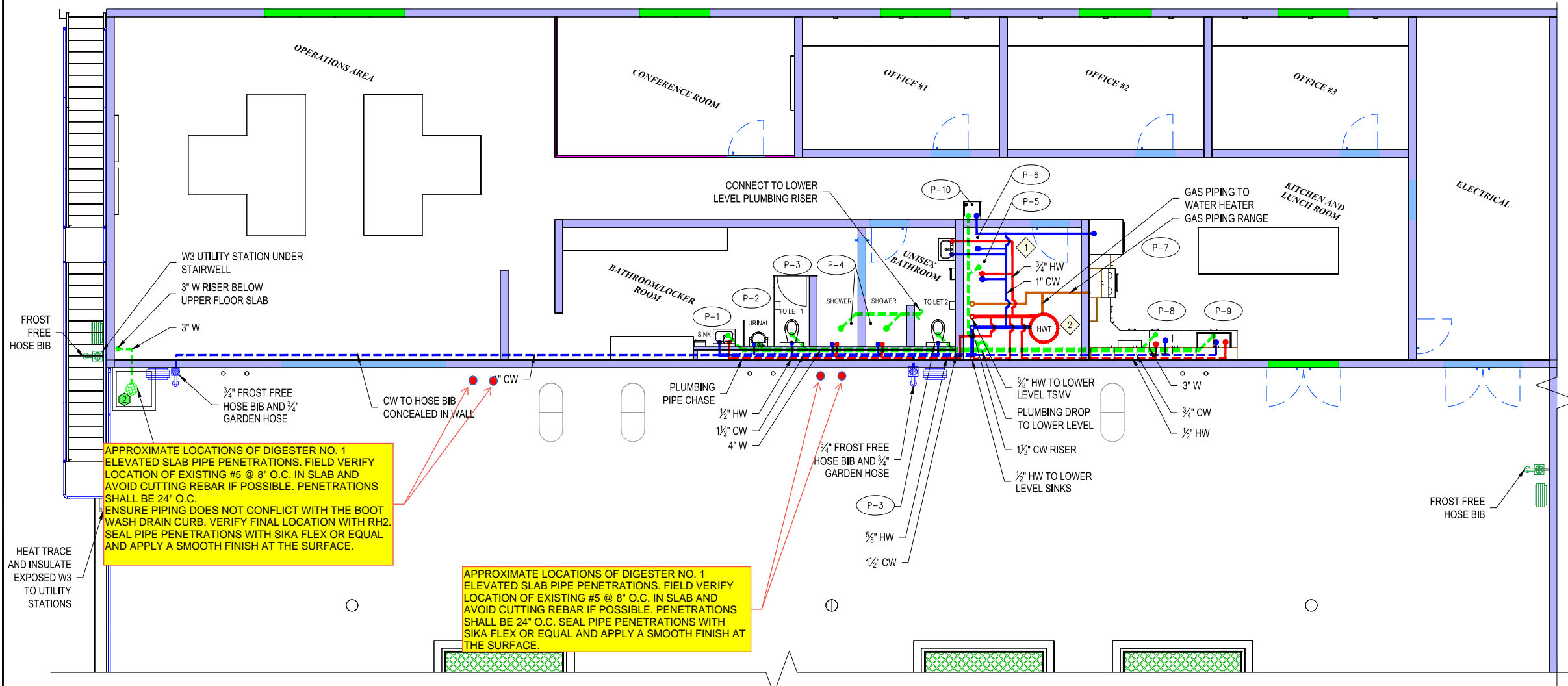
Kevin Yoakum, PE
PROSPECT CONSTRUCTION, INC.



CITY OF SNOQUALMIE
WATER RECLAMATION FACILITY
PHASE 3 IMPROVEMENTS
DIGESTER MECHANICAL
RETROFIT PLAN



NO.	DATE	DESCRIPTION	BY	REVIEW
1	06/27/2023	CONFORMED FOR CONSTRUCTION	SIW	BIS



APPROXIMATE LOCATIONS OF DIGESTER NO. 1 ELEVATED SLAB PIPE PENETRATIONS. FIELD VERIFY LOCATION OF EXISTING #5 @ 8" O.C. IN SLAB AND AVOID CUTTING REBAR IF POSSIBLE. PENETRATIONS SHALL BE 24" O.C. ENSURE PIPING DOES NOT CONFLICT WITH THE BOOT WASH DRAIN CURB. VERIFY FINAL LOCATION WITH RH2. SEAL PIPE PENETRATIONS WITH SIKA FLEX OR EQUAL AND APPLY A SMOOTH FINISH AT THE SURFACE.

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SOLIDS HANDLING BUILDING SECOND FLOOR PLUMBING PLAN

3/8" = 1'-0"

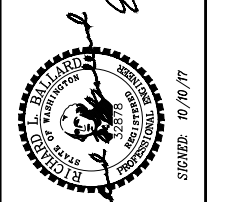
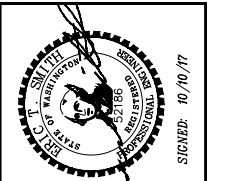


FIXTURE SCHEDULE

P-#	FIXTURE	COLD WATER	HOT WATER	DRAIN
1	LAVATORY	1/2"	1/2"	1-1/2"
2	URINAL	3/4"	-	2"
3	TOILET	1-1/2"	-	3"
4	SHOWER	1/2"	1/2"	2"
5	CLOTHES WASHER	3/4"	3/4"	2"
6	CLOTHES DRYER	1/2"	-	-
7	REFRIGERATOR	1/4"	-	-
8	DISH WASHER	1/2"	1/2"	1-1/2"
9	KITCHEN SINK	1/2"	1/2"	1-1/2"
10	DRINKING FOUNTAIN	1/2"	-	1-1/2"

NOTES

- THIS DRAWING IS SCHEMATIC IN NATURE IN ORDER TO SHOW THE GENERAL ROUTING OF PLUMBING PIPING. ALL PLUMBING PIPE SHALL BE REROUTED AS NECESSARY TO AVOID CONFLICT WITH MECHANICAL PIPING, EQUIPMENT, HVAC ITEMS, ETC. ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE UPC. ON THE UPPER LEVEL OF THE SOLIDS HANDLING FACILITY, ALL PLUMBING PIPES AND ITEMS SHALL BE ROUTED CONCEALED WITHIN THE NEAREST WALL TO LOCATIONS SHOWN HERE EXCEPT WITHIN THE MECHANICAL ROOM. THE CONTRACTOR SHALL PROVIDE FITTINGS AS NECESSARY TO TRANSITION AND CONNECT TO EQUIPMENT AND PLUMBING ITEMS. ROUTE ALL PIPES NEATLY PARALLEL OR PERPENDICULAR TO WALLS, CEILING, AND FLOOR. SEE DRAWING M001 FOR ADDITIONAL INFORMATION.
 - PLUMBING PIPE SUPPORTS TO BE IN ACCORDANCE WITH M003 AND APPLICABLE CODE REQUIREMENTS.
 - GAS PIPING SYSTEM SHALL BE CONTRACTOR-DESIGNED.
 - VENT PIPES SHALL BE LOCATED PER THE UPC AND ROUTED EXPOSED IN THE LOWER LEVEL AND CONCEALED IN WALLS WITHIN THE UPPER LEVEL.
 - PLUMBING PIPE PENETRATIONS 3" AND LARGER THROUGH SLAB PER 1546
M003
 - PLUMBING PIPE PENETRATIONS SMALLER THAN 3" THROUGH SLAB PER 1542
M003
- 1 WASHER AND DRYER, INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER APPLICABLE CODES. PROVIDE WALL VENT WITH SCREEN AND CAP. LOCATE 12" MIN ABOVE FINISH GRADE.
- 2 GAS-FIRED HOT WATER TANK WITH EXPANSION TANK. INSTALL HOT WATER TANK ON INCOMPRESSIBLE, INSULATED SURFACE WITH A MINIMUM THERMAL RESISTANCE OF R-10. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER APPLICABLE CODES. PROVIDE ISOLATION, FLOOR DRAIN, DRAIN PAN AND PRESSURE RELIEF VALVES AND ROUTE TO FLOOR DRAINS AS APPROPRIATE. SEE POTABLE WATER SCHEMATIC FOR ADDITIONAL INFO. SEE HVAC SHEET FOR VENTILATION PIPING SCHEMATIC.



CITY OF SNOQUALMIE
WRF PHASE 2 IMPROVEMENTS
**SOLIDS HANDLING AND DIGESTER
PLUMBING AND VENTILATION PLAN 2**

REVISIONS		DATE	DESCRIPTION
11/16/17	CONFIRMED FOR CONSTRUCTION		

AIR PIPE LOOP SCHEMATICS

APPROXIMATE LOCATION OF OUTLET ON WALL. VERIFY AIR PIPE DOES NOT CONFLICT WITH OUTLET OR WITH PROCESS PIPING INSIDE DIGESTER NO. 1.

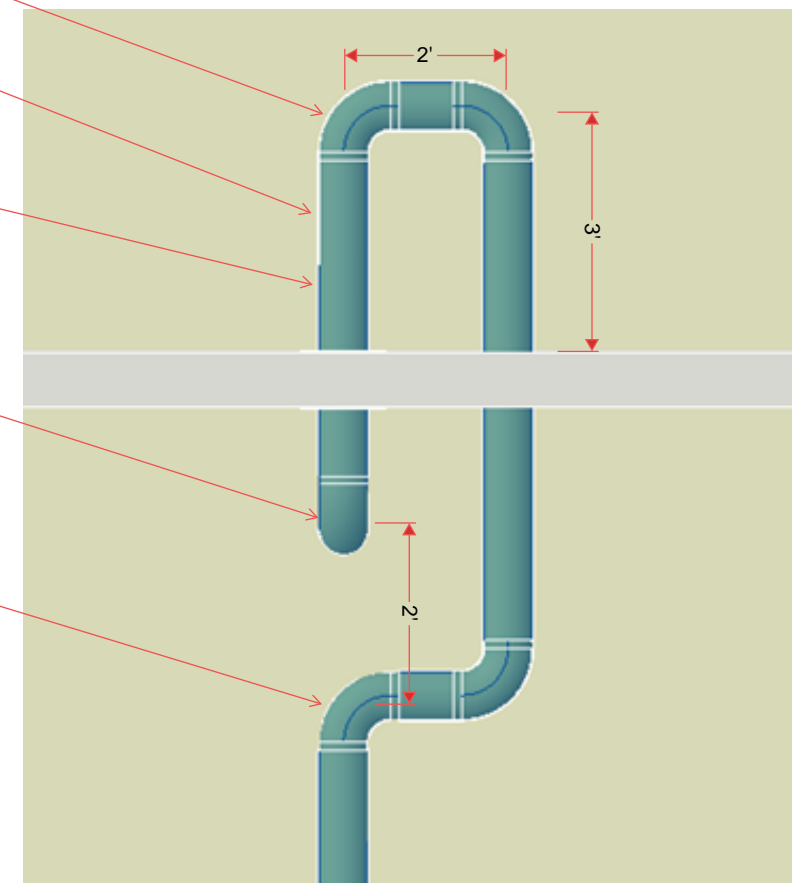
NO PIPE SUPPORTS SHALL BE ATTACHED TO THE METAL WALLS OF THE SOLIDS HANDLING BUILDING ABOVE THE ELEVATED SLAB.

NO PIPE SUPPORTS SHALL BE ATTACHED TO THE METAL WALLS OF THE SOLIDS HANDLING BUILDING ABOVE THE ELEVATED SLAB.

WELD ALL NEW PIPES AND FITTINGS AND USE SAME MATERIAL AS EXISTING STEEL PIPE.

REMOVE EXTENTS OF EXISTING AIR PIPE NECESSARY TO ADD ADDITIONAL PIPING AND RECONNECT TO THE DOWNSTREAM AIR PIPE TOWARDS THE JET AERATION SYSTEM.
REUSE THE 90° BEND AT THE TOP OF THE DIGESTER AND ROTATE 180° AS SHOWN.

INSTALL PIPE SUPPORTS AS NEEDED TO PROVIDE A FULLY FUNCTIONAL, RIGID AND NON-SAGGING SYSTEM. PIPE SUPPORTS SHALL BE EPOXIED AND ANCHORED TO THE INTERIOR DIGESTER WALL.



6" SST 90° BEND, TYP. OF 4.

2'

3'

2'

2'

3'

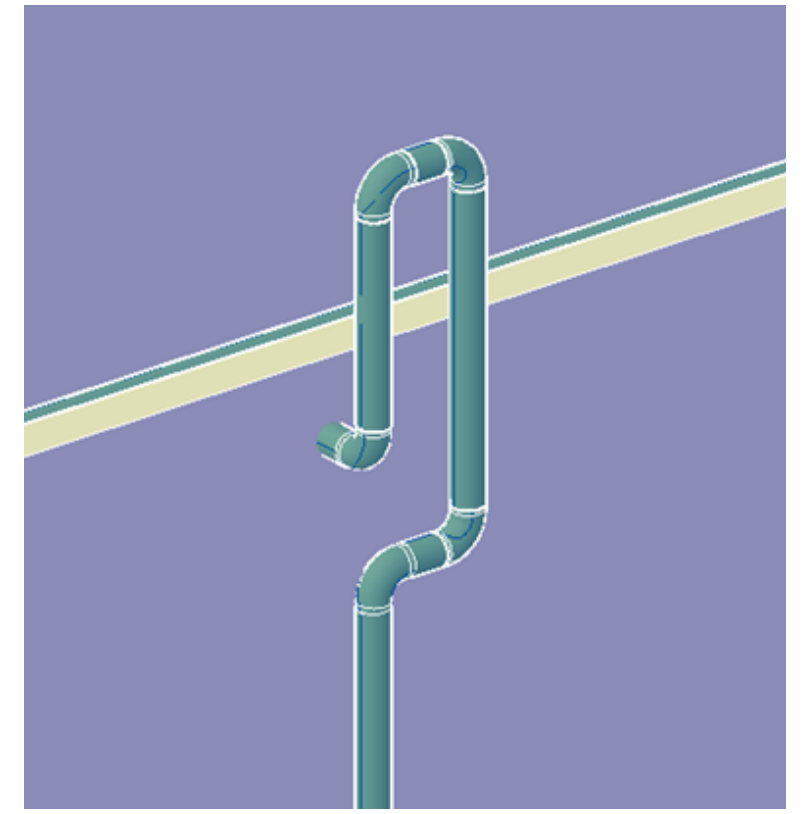
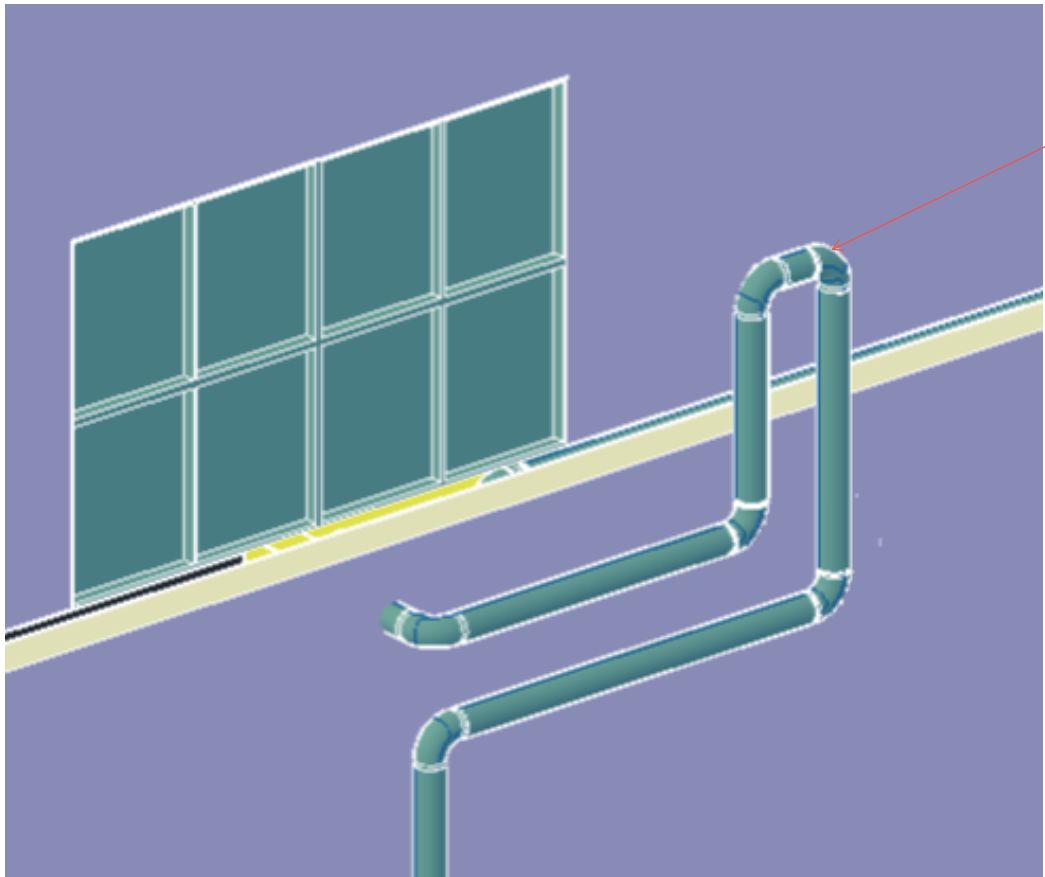
WELD ALL NEW PIPES AND FITTINGS AND USE SAME MATERIAL AS EXISTING STEEL PIPE.

INSTALL PIPE SUPPORTS AS NEEDED TO PROVIDE A FULLY FUNCTIONAL, RIGID AND NON-SAGGING SYSTEM. PIPE SUPPORTS SHALL BE EPOXIED AND ANCHORED TO THE INTERIOR DIGESTER WALL.

6" SST 90° BEND, TYP. OF 5.

REMOVE EXTENTS OF EXISTING AIR PIPE NECESSARY TO ADD ADDITIONAL PIPING AND RECONNECT TO THE DOWNSTREAM AIR PIPE TOWARDS THE JET AERATION SYSTEM.

REUSE THE 90° BEND AT THE TOP OF THE DIGESTER AND ROTATE 90° AS SHOWN.



DIGESTER NO. 1 SLAB PENETRATION LOCATIONS

DIGESTER NO. 2 SLAB PENETRATION LOCATIONS

SLAB PENETRATION PHOTOS



DIGESTER NO. 1 SLAB PENETRATION LOCATIONS



DIGESTER NO. 2 SLAB PENETRATION LOCATIONS