

Chefornak Washeteria as of 9/24/12

## DCVR's

- 1 - Washeteria Sewer - 12/21/10
- 2 - Change Routing of  
Plumbing 12/21/10
- 3 - Forcemain Routing 12/21/10

CYF. Wa.

DCVR3

Request for Information (RFI)/  
Design Clarification/Variation Request (DCVR)

Project Name:	City of Chefnak Provisional Washeteria		
Date:	12/10/10	Response Need Date:	12/21/10
RFI#:	RFI-	DCVR#:	DCVR-3
Submitted to:	Lloyd Persson		
From (Company):	CE2 Engineers		
By:	Chad Mountcastle		

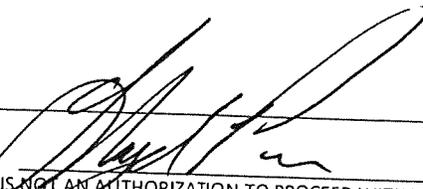
Nature of Work:	Forcemain Routing		
Reference Drawings:	2009 Provisional Washeteria Construction		
Reference Spec Section(s):	C1.2		
Bid Item(s):			

Description:

We are unable to install the force main in the plan location because of a new materials staging area constructed by the school contractor.

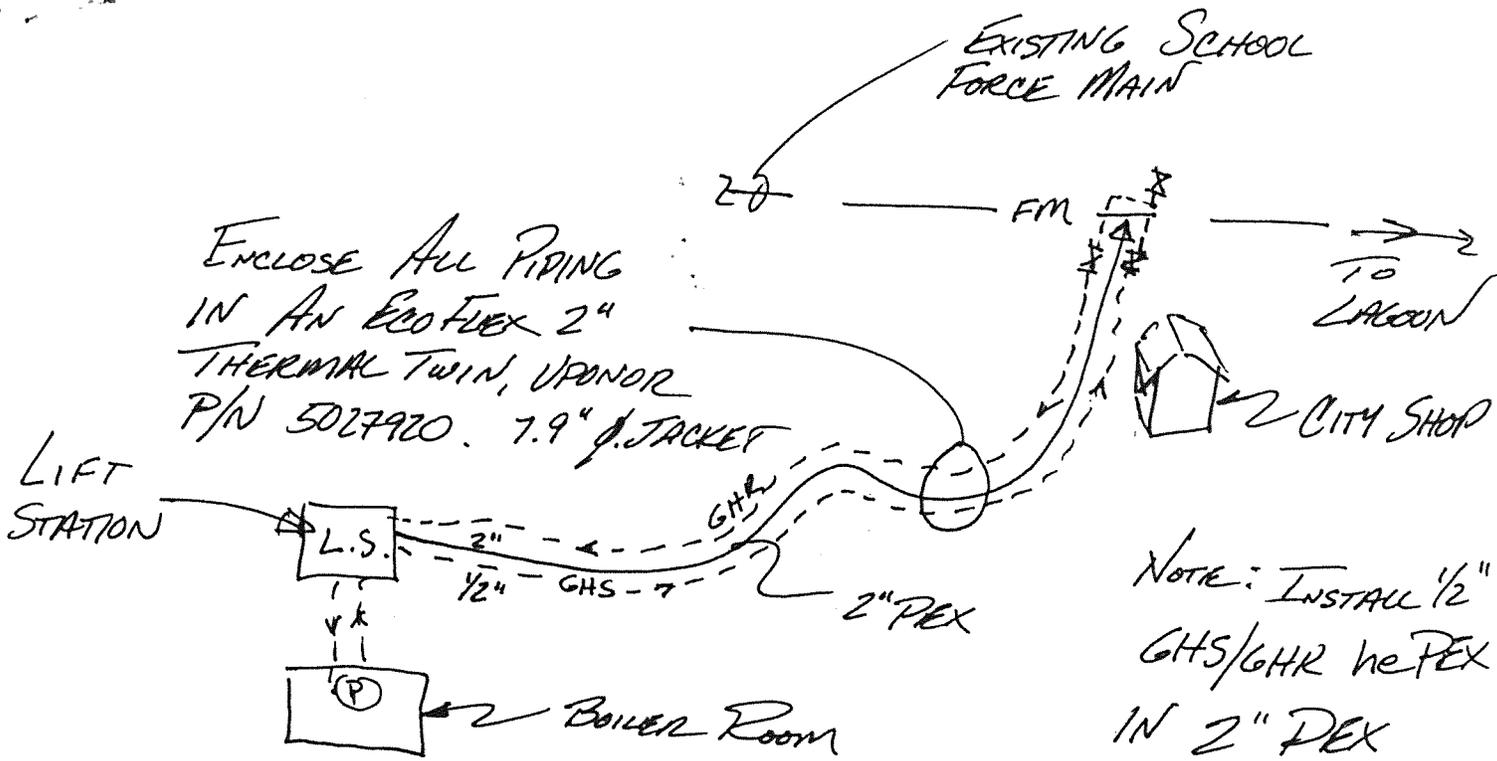
Engineer's Response:

Since we are not certain when the materials staging area will be "available," convert the design to a 2" flexible arctic force main with glycol heat trace as shown on the attached sketch. Adjust the alignment to the north near the city shop and avoid the school materials. Place a 12" dia culvert under the road and to allow the flexible force main (8" OD) to be easily installed and/or relocated in the future if necessary with minimal down time of the washeteria.

BY:  DATE: 12/21/10

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Distribution:	Point of Contact	Phone	v	Date
VSW	Susan Randlett	204-7614	✓	9-25-12
Design Engineer/CE2 Engineers, Inc.				
Construction Manager/CE2 Engineers, Inc.				
Sub-Consultant				
Other				



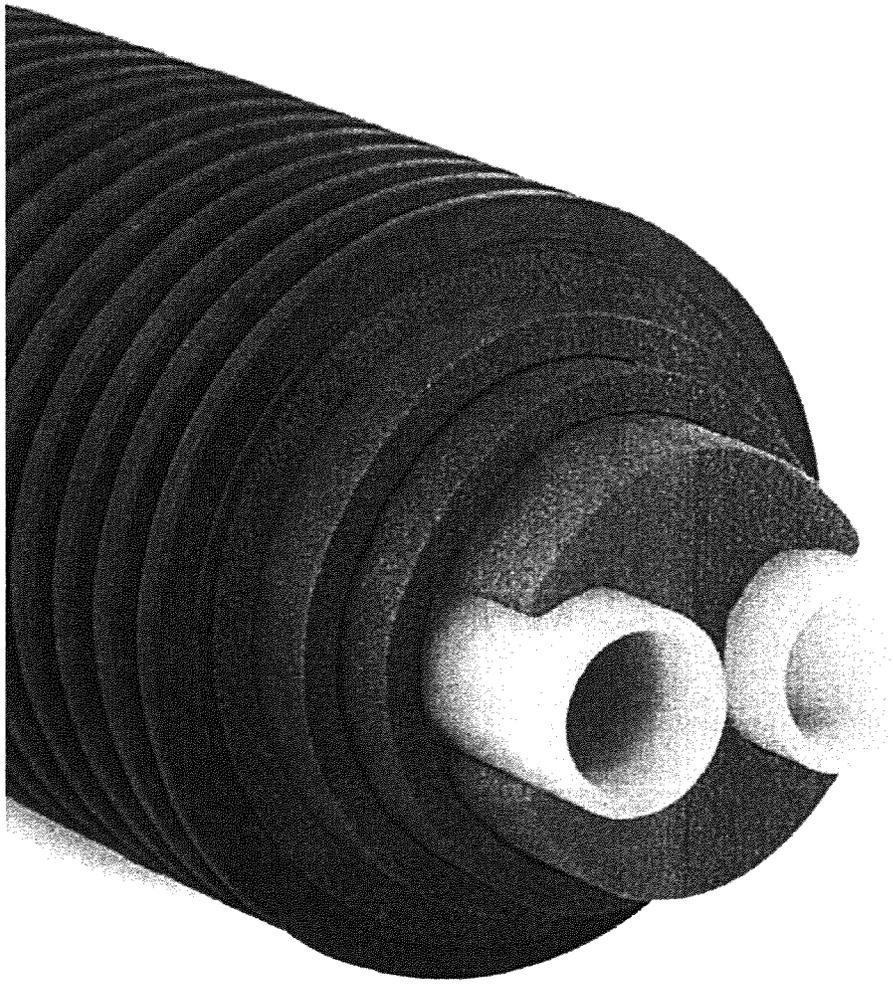
ENCLOSE ALL PIPING  
 IN AN ECO FLEX 2"  
 THERMAL TWIN, UPONOR  
 P/N 5027920. 7.9" Ø. JACKET

NOTE: INSTALL 1/2"  
 GHS/GHR W/ PEX  
 IN 2" PEX  
 DUCT. LESS  
 THAN 300'

# CHEFORNAK PROVISIONAL WASTEWATERIA FORCE MAIN w/ GLYCOL HEAT TRACE

NO SCALE

*[Signature]*  
 12/21/10

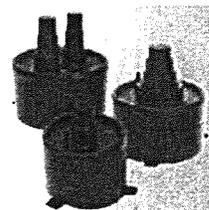
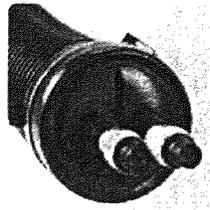
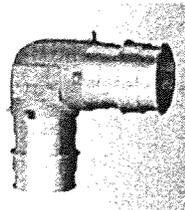
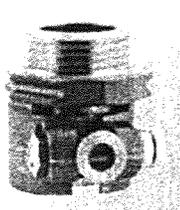


# uponor

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Featuring the flex™ pre-insulated pipe — a flexible, sustainable, durable solution.



Uponor Wirsbo: A1250500

→ Uponor Wirsbo hePEX Tubing 300 Ft Coil (PEX-a) - Radiant Heating & Cooling, 1/2"

- Model: A1250500
- Tubing Size: 1/2"
- Coil Length: 300 Feet
- Material: Crosslinked polyethylene PEX-a Engel Method
- Standard Grade Hydrostatic Ratings (PPI): 200 degrees F at 80 psi (93 degrees C at 5.51 bar); 180 degrees F at 100 psi (82 degrees C at 6.89 bar); 73.4 degrees F at 160 psi (23 degrees C at 11.03 bar)
- Linear Expansion Rate: 1.1"/10 degrees F per 100 ft. (27.94mm/5.56 degrees C per 30.48m)
- Installation: Approved fitting systems include ProPEX and QS-Style (Refer to Uponor Radiant Installation Handbook for additional information)
- Standards: CSA B137.5; ASTM F876; ASTM F1960; ASTM-E84; CAN/ULC S102.2; ASTM-E119/UL 263
- Codes: IPC; UPC; NSPC; IRC; NPC of Canada
- Listings: NSF rfh; ITS; UL; ICC; PPI; WARNOCK HERSEY 25 FS/50SD plenum listing
- Inner Dimension: 0.475"
- Outer Dimension: 0.625"

$$2" \text{ ID} = 1.629"$$

$$(2) \frac{1}{2}" \text{ OD} = 1.25"$$

OK

CYF.W9

DCVR2

Request for Information (RFI)/  
Design Clarification/Variation Request (DCVR)

Project Name:	City of Chefornak Provisional Washeteria		
Date:	11/10/10	Response Need Date:	11/17/10
RFI#:	RFI-	DCVR#:	DCVR-2
Submitted to:	Lloyd Persson		
From (Company):	CE2 Engineers		
By:	Chad Mountcastle		

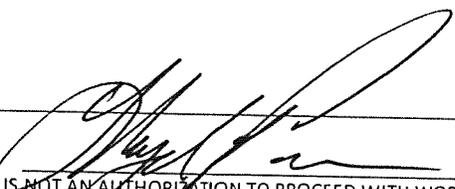
Nature of Work:	Change routing of plumbing to accommodate (2) Lift stations instead of (1)		
Reference Drawings:	2009 Provisional Washeteria Construction		
Reference Spec Section(s):	C1.2		
Bid Item(s):			

**Description:**

We are using two separate Lift Stations instead of one Duplex Pumping Station. Judd is in need of a piping schematic as to how the waste lines will run and be diverted into each Lift Station. Will one pump supply the bathrooms and one pump supply the washers or will the waste lines just divert through a Wye into either lift station. I'm concerned that by using a Wye or something similar to divert the waste will cause one station to be favored and do most of the work while the other is only used in high volume cases. Please provide a detailed drawing or sketch as to how you would like this plumbed.

**Engineer's Response:**

See the attached sketch. Balancing the flow between the two stations is not necessary. During a failure of one of the units, flow will automatically be diverted to the alternate station providing two complete redundant systems capable of handling normal flows.

BY:  DATE: 12/21/10

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Distribution:	Point of Contact	Phone	v	Date
VSW	Susan Randle	214-7614	✓	9-25-12
Design Engineer/CE2 Engineers, Inc.				
Construction Manager/CE2 Engineers, Inc.				
Sub-Consultant				
Other				

Request for Information (RFI)/  
Design Clarification/Variation Request (DCVR)

Project Name:	2009 Provisional Washeteria		
Date:	10-08-2010	Response Need Date:	
RFI#:	RFI-	DCVR#:	DCVR- 1
Submitted to:	Lloyd Persson		
From (Company):			
By:	David Harvey		

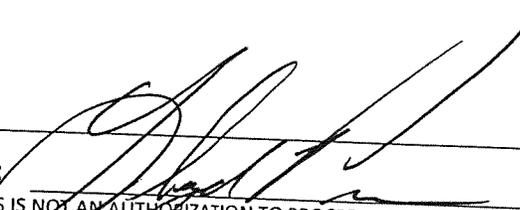
Nature of Work:	Washeteria sewer
Reference Drawings:	C1.2, C5.1 and M-2
Reference Spec Section(s):	
Bid Item(s):	

**Description:**

Sheet C1.2 Detail A calls for 6" gravity drain from washeteria. Sheet M-2 calls out a 4" waste to LS-1. Sheet C5.1 Detail 4 also calls for a 4" sewer connection. Please clarify.

**Engineer's Response:**

Revise sheet C1.2, Detail from 6" to the 4" gravity drain as correctly specified on sheet M-2.

BY: 

DATE: 12/21/10

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Distribution:	Point of Contact	Phone	v	Date
VSW	Susan Randle	269-7614	✓	9.25.12
Design Engineer/CE2 Engineers, Inc.				
Construction Manager/CE2 Engineers, Inc.				
Sub-Consultant				
Other				