



City Engineering  
333 S. Meridian  
Puyallup, WA 98371  
Tel: (253) 864-4165  
Fax: (253) 840-6678

### PLAN CHANGE REQUEST

DATE: 09/11/24 PERMIT NO./REF NO: PRCCP20240215

1. PROJECT: PSE - OTC ADDRESS: 325 Todd Road NW

2. OWNER: Puget Sound Energy EMAIL: agarciamendoza@trammellcrow.com

3. DESIGN ENGINEER: Miles McEathron EMAIL: mmceathron@freelandengineering.com

4. CONTRACTOR: Pennon Construction EMAIL: jacobb@pennonconstruction.com

5. ORIGINATOR OF REQUEST:  
 OWNER  DESIGN ENGINEER  CONTRACTOR  CITY OF PUYALLUP

6. DOES THIS REQUEST REQUIRE A DEVIATION FROM AN EXISTING CITY STANDARD?  YES  NO

7. IF YES, PLEASE SUBMIT AN ALTERNATIVE METHODS FOR CONSTRUCTION MATERIALS REQUEST APPLICATION (AMR).

8. IF NO, PLEASE COMPLETE THE FOLLOWING:

9. APPROVED CIVIL PLAN SHEET NUMBERS AFFECTED: C2.2A

10. WHAT PART OF THE CITY AND/OR DEVELOPMENT INFRASTRUCTURE IS BEING AFFECTED?  
 ROAD  STORM  WATER  SANITARY  GRADING  EROSION CONTROL

11. DESCRIBE THE CHANGE BEING REQUESTED: (ATTACH ADDITIONAL INFORMATION AS NECESSARY)

This is to clarify that a saddle manhole will be used at SSMH #1 on sheet C2.2A. The saddle manhole detail from Pierce County would be used as requested, the detail is attached for reference. The detail is modified to indicate 0.1' drop between inverts is required (rather than matching crowns). In addition, the interior/exterior coating is omitted and the bottom slab is noted as precast w/ pour concrete collar.

12. ALL SIGNATURES ARE REQUIRED TO PROCESS THIS REQUEST UNLESS INITIATED BY THE CITY. FINAL APPROVAL/DENIAL WILL BE MADE BY THE CITY ENGINEER. ALL CHANGES WILL BE FULLY APPROVED/DENIED PRIOR TO ANY WORK ON REQUESTED CHANGES. ANY WORK COMPLETED PRIOR TO APPROVAL IS AT THE RISK OF THE DEVELOPER/CONTRACTOR AND MAY NOT BE APPROVED BY THE CITY ENGINEER.

Alex Garcia Mendoza  
OWNER

Miles McEathron  
DESIGN ENGINEER

Jacob Brown  
CONTRACTOR  
Digitally signed by Jacob Brown  
DN: c=US,  
E=Jacobb@pennonconstruction.com,  
O=Pennon Construction, CN=Jacob  
Brown  
Date: 2024.08.19.10:50:18.0Z

\_\_\_\_\_  
CITY INSPECTOR

Jacob Brown  
CITY REVIEWER

APPROVED / DENIED

09/13/2024

DATE

PRCCP2024  
0215PCR002  
- saddle  
MH8/21/2024

PRCCP20240215  
PCR002 REV 2  
Approved 9/13/2024

NOTES:

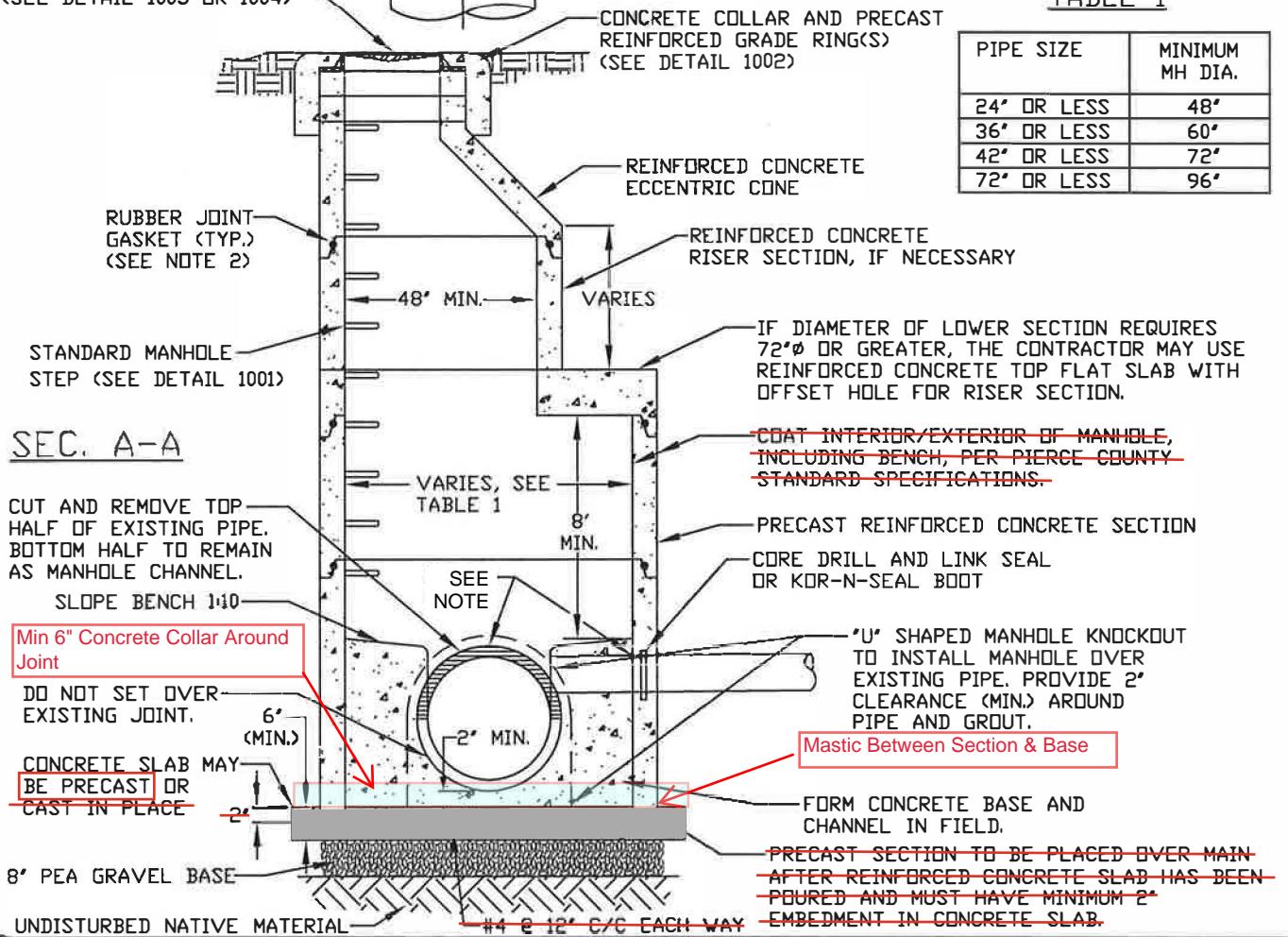
1. MANHOLE SIZE WILL BE DEPENDENT UPON THE NUMBER OF PIPES INTO THE THE MANHOLE, PIPE SIZE, AND CONFIGURATION THROUGH THE MANHOLE.
2. ALL MANHOLE RISER JOINTS SHALL HAVE BOTH BUTYL RUBBER GASKETS AND PREFORMED (ROPE TYPE) JOINT SEALANT, PER PIERCE COUNTY SANITARY SEWER SPECIFICATIONS.

NOTE: PIERCE COUNTY REQUIRES 0.1' MIN. DROP BETWEEN INVERTS

STANDARD MH FRAME AND COVER. SEE DETAIL (SEE DETAIL 1003 OR 1004)

TABLE 1

PIPE SIZE	MINIMUM MH DIA.
24" OR LESS	48"
36" OR LESS	60"
42" OR LESS	72"
72" OR LESS	96"



SEC. A-A

CUT AND REMOVE TOP HALF OF EXISTING PIPE. BOTTOM HALF TO REMAIN AS MANHOLE CHANNEL.

SLOPE BENCH 1:10

Min 6" Concrete Collar Around Joint

DO NOT SET OVER EXISTING JOINT.

CONCRETE SLAB MAY BE PRECAST OR CAST IN PLACE

8' PEA GRAVEL BASE

UNDISTURBED NATIVE MATERIAL

CONCRETE COLLAR AND PRECAST REINFORCED GRADE RING(S) (SEE DETAIL 1002)

REINFORCED CONCRETE ECCENTRIC CONE

REINFORCED CONCRETE RISER SECTION, IF NECESSARY

IF DIAMETER OF LOWER SECTION REQUIRES 72"Ø OR GREATER, THE CONTRACTOR MAY USE REINFORCED CONCRETE TOP FLAT SLAB WITH OFFSET HOLE FOR RISER SECTION.

~~COAT INTERIOR/EXTERIOR OF MANHOLE, INCLUDING BENCH, PER PIERCE COUNTY STANDARD SPECIFICATIONS.~~

PRECAST REINFORCED CONCRETE SECTION

CORE DRILL AND LINK SEAL OR KOR-N-SEAL BOOT

'U' SHAPED MANHOLE KNOCKOUT TO INSTALL MANHOLE OVER EXISTING PIPE. PROVIDE 2" CLEARANCE (MIN.) AROUND PIPE AND GROUT.

Mastic Between Section & Base

FORM CONCRETE BASE AND CHANNEL IN FIELD.

~~PRECAST SECTION TO BE PLACED OVER MAIN AFTER REINFORCED CONCRETE SLAB HAS BEEN POURED AND MUST HAVE MINIMUM 2" EMBEDMENT IN CONCRETE SLAB.~~



PIERCE COUNTY PUBLIC WORKS & UTILITIES DEPARTMENT  
SEWER UTILITY DIVISION  
9850 64TH STREET WEST  
UNIVERSITY PLACE, WASHINGTON 98467-1078  
(253) 798-4050

STANDARD DETAILS

DATE  
12/26/2012

SCALE  
NTS

CONCRETE SADDLE MANHOLE

STANDARD DETAIL NO.  
2004

PAGE 1 OF 1

## Miles McEathron

---

**From:** Jamie Carter <jcarter@puyallupwa.gov>  
**Sent:** Tuesday, September 10, 2024 4:02 PM  
**To:** Brandon Hoefs; Kyle MacDonald; Jacob Brown; Mico Hutchens; Josh Grbich; Jonathan Wikander  
**Cc:** Jeff Hill; Miles McEathron; Spencer Franks; Billy Myers; Emma Slyter  
**Subject:** RE: PSE OTC - Sewer Extension Dewatering - Permit PRCCP20240215  
**Attachments:** flat slab.pdf

Hello,

This last email is to the city's satisfaction. We agree with the installation technique. The PCR needs to be updated with these corrections. I tried to just replace the detail page in Bluebeam but it wont take editing because of the signatures. I will work on it tomorrow. We want the PCR to have this info.

Sincerely,

PRCCP20240215  
PCR002 REV 2  
Approved 9/13/2024

Jamie Carter, PE  
City of Puyallup | Development Review  
office 253-435-3616 cell 253-225-9397  
[JCarter@puyallupwa.gov](mailto:JCarter@puyallupwa.gov)

To apply for a permit, click here to access the [City's Permit Portal](#). Or scan this QR code with your phone to learn more.



---

**From:** Brandon Hoefs <brandonh@pivetta.com>  
**Sent:** Tuesday, September 10, 2024 3:18 PM  
**To:** Kyle MacDonald <KyleM@pivetta.com>; Jamie Carter <jcarter@puyallupwa.gov>; Jacob Brown <jacobbb@pennonconstruction.com>; Mico Hutchens <MHutchens@PuyallupWA.gov>; Josh Grbich <JGrbich@PuyallupWA.gov>; Jonathan Wikander <JonathanW@PuyallupWA.gov>  
**Cc:** Jeff Hill <JHill@PuyallupWA.gov>; Miles McEathron <mmceathron@freelandengineering.com>; Spencer Franks <spencerf@pennonconstruction.com>; Billy Myers <billym@pivetta.com>; Emma Slyter <emma@pivetta.com>  
**Subject:** RE: PSE OTC - Sewer Extension Dewatering - Permit PRCCP20240215

CAUTION: This is an External Email. Do not click links or open attachments unless you are expecting them.

Jamie,

A brief explanation of what we are trying to do.

- Use a precast base which will be poured with rebar and sent to the Project.
- Set saddle manhole on top of precast base with mastic
- Pour a 6"-1' concrete collar around seam of precast base and saddle section
- Pour channel inside manhole.
- \*if required, we can install dowels/rebar inside the manhole from the saddle section into the base and pour the channel around the rebar to connect the section with the base.

I removed the #4 rebar note on the detail I sent because I thought it was referring to a cast in place installation and not the precast option. Please let me know if you have any questions.

Thank you,

PRCCP20240215  
PCR002 REV 2  
Approved 9/13/2024



**BRANDON HOEFS**  
Division Manager

BrandonH@pivetta.com  
(253) 409-4437

1812 Pease Avenue  
Sumner, WA 98390

---

**From:** Kyle MacDonald <KyleM@pivetta.com>  
**Sent:** Tuesday, September 10, 2024 2:23 PM  
**To:** Jamie Carter <jcarter@puyallupwa.gov>; Jacob Brown <jacobb@pennonconstruction.com>; Brandon Hoefs <brandonh@pivetta.com>; Mico Hutchens <MHutchens@PuyallupWA.gov>; Josh Grbich <JGrbich@PuyallupWA.gov>; Jonathan Wikander <JonathanW@PuyallupWA.gov>  
**Cc:** Jeff Hill <JHill@PuyallupWA.gov>; Miles McEathron <mmceathron@freelandengineering.com>; Spencer Franks <spencerf@pennonconstruction.com>; Billy Myers <billym@pivetta.com>; Emma Slyter <emma@pivetta.com>  
**Subject:** Re: PSE OTC - Sewer Extension Dewatering - Permit PRCCP20240215

The precast base is built with bar if that answers your question Jamie.

Get [Outlook for iOS](#)

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**From:** Jamie Carter <jcarter@puyallupwa.gov>  
**Sent:** Tuesday, September 10, 2024 12:36:51 PM  
**To:** Jacob Brown <jacobb@pennonconstruction.com>; Brandon Hoefs <brandonh@pivetta.com>; Mico Hutchens <MHutchens@PuyallupWA.gov>; Josh Grbich <JGrbich@PuyallupWA.gov>; Jonathan Wikander <JonathanW@PuyallupWA.gov>  
**Cc:** Jeff Hill <JHill@PuyallupWA.gov>; Miles McEathron <mmceathron@freelandengineering.com>; Spencer Franks <spencerf@pennonconstruction.com>; Billy Myers <billym@pivetta.com>; Kyle MacDonald <KyleM@pivetta.com>; Emma Slyter <emma@pivetta.com>  
**Subject:** RE: PSE OTC - Sewer Extension Dewatering - Permit PRCCP20240215

Why can't rebar be used? This is the city's preferred installation.

Provide rationale for using the alternative method.

Sincerely,

Jamie Carter, PE  
City of Puyallup | Development Review  
office 253-435-3616 cell 253-225-9397  
[JCarter@puyallupwa.gov](mailto:JCarter@puyallupwa.gov)

To apply for a permit, click here to access the [City's Permit Portal](#). Or scan this QR code with your phone to learn more.



---

**From:** Jacob Brown <[jacobb@pennonconstruction.com](mailto:jacobb@pennonconstruction.com)>  
**Sent:** Tuesday, September 10, 2024 9:12 AM  
**To:** Brandon Hoefs <[brandonh@pivetta.com](mailto:brandonh@pivetta.com)>; Jamie Carter <[jcarter@puyallupwa.gov](mailto:jcarter@puyallupwa.gov)>; Mico Hutchens <[MHutchens@PuyallupWA.gov](mailto:MHutchens@PuyallupWA.gov)>; Josh Grbich <[JGrbich@PuyallupWA.gov](mailto:JGrbich@PuyallupWA.gov)>; Jonathan Wikander <[JonathanW@PuyallupWA.gov](mailto:JonathanW@PuyallupWA.gov)>  
**Cc:** Jeff Hill <[JHill@PuyallupWA.gov](mailto:JHill@PuyallupWA.gov)>; Miles McEathron <[mmceathron@freelandengineering.com](mailto:mmceathron@freelandengineering.com)>; Spencer Franks <[spencerf@pennonconstruction.com](mailto:spencerf@pennonconstruction.com)>; Billy Myers <[billym@pivetta.com](mailto:billym@pivetta.com)>; Kyle MacDonald <[KyleM@pivetta.com](mailto:KyleM@pivetta.com)>; Emma Slyter <[emma@pivetta.com](mailto:emma@pivetta.com)>  
**Subject:** Re: PSE OTC - Sewer Extension Dewatering - Permit PRCCP20240215

CAUTION: This is an External Email. Do not click links or open attachments unless you are expecting them.

This joint would also be completely buried by the channeling grout.

Thanks,  
Jacob

Get [Outlook for iOS](#)

---

**From:** Brandon Hoefs <[brandonh@pivetta.com](mailto:brandonh@pivetta.com)>  
**Sent:** Tuesday, September 10, 2024 8:54:33 AM  
**To:** Jamie Carter <[jcarter@puyallupwa.gov](mailto:jcarter@puyallupwa.gov)>; Jacob Brown <[jacobb@pennonconstruction.com](mailto:jacobb@pennonconstruction.com)>; Mico Hutchens <[MHutchens@PuyallupWA.gov](mailto:MHutchens@PuyallupWA.gov)>; Josh Grbich <[JGrbich@PuyallupWA.gov](mailto:JGrbich@PuyallupWA.gov)>; Jonathan Wikander <[JonathanW@PuyallupWA.gov](mailto:JonathanW@PuyallupWA.gov)>  
**Cc:** Jeff Hill <[JHill@PuyallupWA.gov](mailto:JHill@PuyallupWA.gov)>; Miles McEathron <[mmceathron@freelandengineering.com](mailto:mmceathron@freelandengineering.com)>; Spencer Franks <[spencerf@pennonconstruction.com](mailto:spencerf@pennonconstruction.com)>; Billy Myers <[billym@pivetta.com](mailto:billym@pivetta.com)>; Kyle MacDonald <[KyleM@pivetta.com](mailto:KyleM@pivetta.com)>;

1st TCP - Tie-In to SSMH #1 at night.  
 TCP implemented during the day for first 3-4 days after SSMH #1 Install.

**FULL CLOSURE IS ONLY AUTHORIZED FOR THE CONNECTION WITHIN VALLEY AVE - NIGHT WORK IS REQUIRED WHILE WORKING IN VALLEY AVE + 50 FT NORTH ON 7TH ST NW FROM THE STOP BAR AT VALLEY**

**NIGHT WORK REQUIRED. CLOSURE ALLOWED: Sunday - Thursday 9PM - 5AM**  
 Call communications center at 253-287-4456 on night of closure. Request a job start inspection through the CityView portal and leave a message for the inspectors by calling 253-435-3650 at least 48 hours in advance of job start. Public notification shall comply with PMC Chapter 11.05.110. The City-issued permit packet shall be posted at the job site and available to inspectors at all times.

**Night work is required for the duration of any lane closure within Valley AVE. Traffic control within Valley AVE shall be removed and all lanes restored at the end of each each shift during night operations.**

- Traffic control devices shall be 28 inch retro-reflective cones.
- Taper length equals width of offset times speed limit squared divided by 60.
- Sign spacing shall be 100 feet when speed limit is 30 mph or less.
- Sign spacing shall be 350 feet when speed limit is greater than 30 mph.
- Distance between cones equals speed limit in unit-feet.
- Travel lane width must be a minimum of 11 feet at all times.
- All flaggers and spotters shall remain in radio contact at all times.

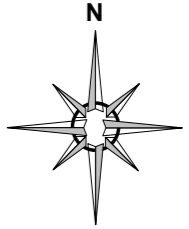
1. ALL SIGN SPACING SHALL CONFORM TO MUTCD AND CITY SPECS.
2. SIGN SPACING MAYBE REDUCED IN URBAN AREAS TO FIT ROADWAYS CONDITIONS.
3. ALL SIGNS MIN. 48" X 48" UNLESS OTHERWISE SPECIFIED.
4. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT- GRADE INTERCEPTIONS AND / OR DRIVEWAYS.

**Pivetta shall notify property owner(s) of blocked driveway(s) at least 24 hours in advance.**

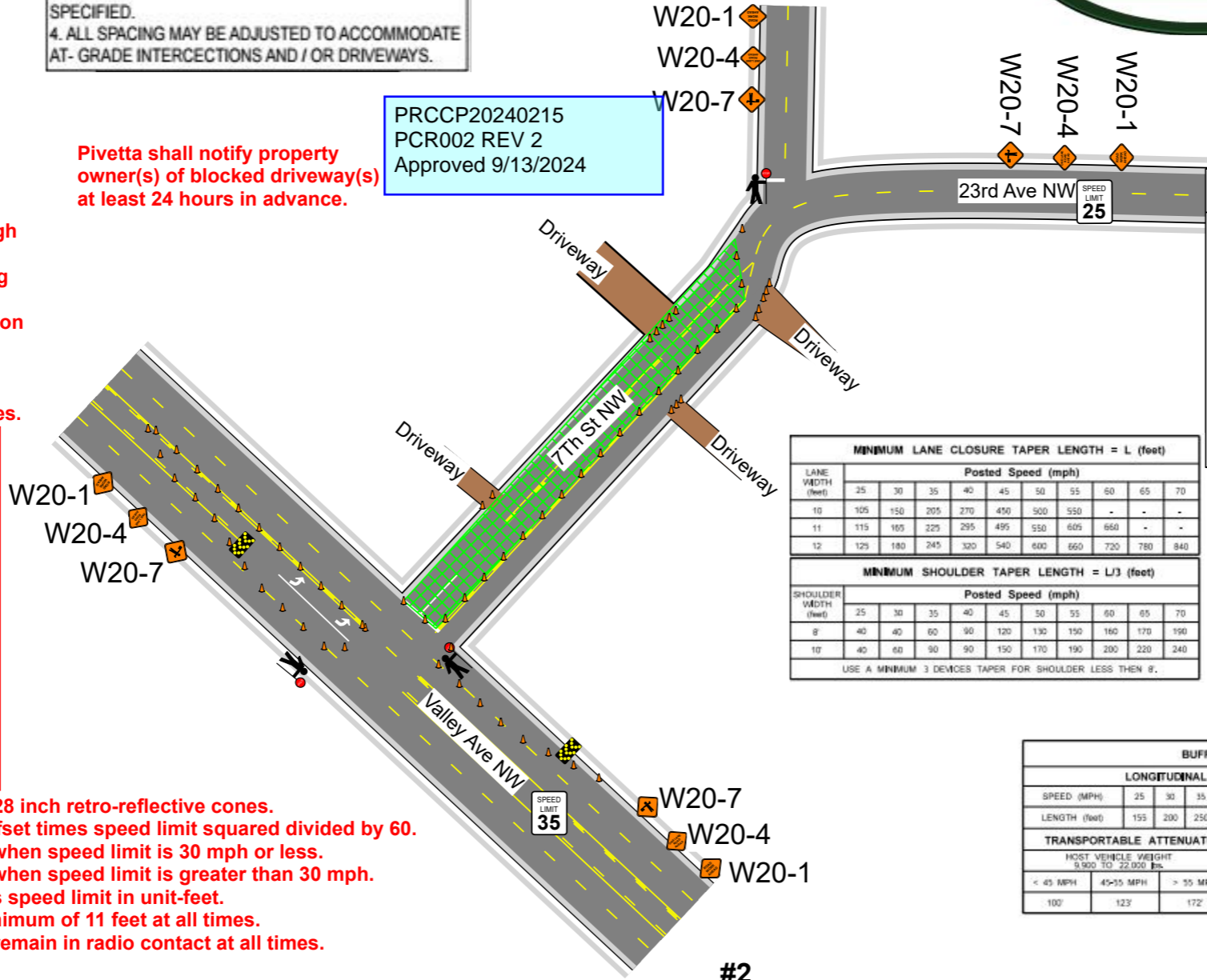
PRCCP20240215  
 PCR002 REV 2  
 Approved 9/13/2024

### 7Th St NW One Lane

**Call Jeff Hill, City Inspector, at 253-204-5633 prior to starting any work.**



TCP Design By Dusty Willis  
 TCS# WA007949  
 Exp. Date: 1-24-2026  
 Phone # 253-377-6195  
 Dusty@Pivetta.com  
 Date : 07-18-2024



#### Legend

- Arrowboard (Chevron)
- Cone
- traffic controller stop
- W20-1 Road Work Ahead
- W20-4 One Lane Road Ahead
- W20-7 Flagger
- Work Area

LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
10	25	30	35	40	45	50	55	60	65	70
11	105	150	205	270	450	500	550	-	-	-
12	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

SHOULDER WIDTH (feet)	MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)									
	Posted Speed (mph)									
8	25	30	35	40	45	50	55	60	65	70
10	40	40	60	90	120	130	150	160	170	190
10	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	50 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
	HOST VEHICLE WEIGHT 9,100 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.				
	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	
	100'	123'	172'	74'	100'	150'				

**IF APPLICABLE**  
 THESE SIGNS SHALL BE DISPLAYED DURING NON-WORKING HOURS ACCORDING TO RCW 47.36.200

2nd TCP - Daytime work after sewer extension is 150' away from tie-in point.

**FULL CLOSURE IS ONLY AUTHORIZED FOR THE CONNECTION WITHIN VALLEY AVE - NIGHT WORK IS REQUIRED WHILE WORKING IN VALLEY AVE + 50 FT NORTH ON 7TH ST NW FROM THE STOP BAR AT VALLEY**

**NIGHT WORK REQUIRED. CLOSURE ALLOWED: Sunday - Thursday 9PM - 5AM**  
 Call communications center at 253-287-4456 on night of closure. Request a job start inspection through the CityView portal and leave a message for the inspectors by calling 253-435-3650 at least 48 hours in advance of job start. Public notification shall comply with PMC Chapter 11.05.110. The City-issued permit packet shall be posted at the job site and available to inspectors at all times.

**GENERAL NOTES**  
 1. ALL SIGN SPACING SHALL CONFORM TO MUTCD AND CITY SPECS.  
 2. SIGN SPACING MAYBE REDUCED IN URBAN AREAS TO FIT ROADWAYS CONDITIONS.  
 3. ALL SIGNS MIN. 48" X 48" UNLESS OTHERWISE SPECIFIED.  
 4. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT- GRADE INTERCECTIONS AND / OR DRIVEWAYS.

Pivetta shall notify property owner(s) of blocked driveway(s) at least 24 hours in advance.

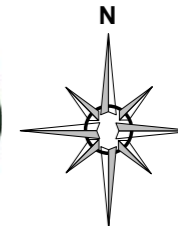
Daytime work hours are restricted to 8am-3pm. Work hours may be altered based on conditions, at the discretion of the City Inspector.

PRCCP20240215W20-1  
 PCR002 REV 2  
 Approved 9/13/2024

- Traffic control devices shall be 28 inch retro-reflective cones.
- Taper length equals width of offset times speed limit squared divided by 60.
- Sign spacing shall be 100 feet when speed limit is 30 mph or less.
- Sign spacing shall be 350 feet when speed limit is greater than 30 mph.
- Distance between cones equals speed limit in unit-feet.
- Travel lane width must be a minimum of 11 feet at all times.
- All flaggers and spotters shall remain in radio contact at all times.

### 7Th St NW One Lane

Call Jeff Hill, City Inspector, at 253-204-5633 prior to starting any work.



TCP Design By Dusty Willis  
 TCS# WA007949  
 Exp. Date: 1-24-2026  
 Phone # 253-377-6195  
 Dusty@Pivetta.com  
 Date : 07-18-2024

W20-1  
 W20-4  
 W20-7

W20-7  
 W20-4  
 W20-1

23rd Ave NW  
 SPEED LIMIT 25

#### Legend

- Cone
- traffic controller stop
- W20-1 Road Work Ahead
- W20-4 One Lane Road Ahead
- W20-7 Flagger
- Work Area

LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
10	25	30	35	40	45	50	55	60	65	70
11	105	150	205	270	450	500	550	-	-	-
12	125	180	245	320	540	600	660	720	780	840

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10	40	60	90	120	150	180	210	240	270	300

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
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RURAL HIGHWAYS	50 / 65 MPH	800' ±
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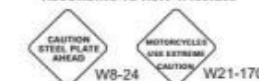
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
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BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,000 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

**IF APPLICABLE**  
 THESE SIGNS SHALL BE DISPLAYED DURING NON-WORKING HOURS ACCORDING TO RCW 47.36.200



Typical Off-Hours (no working being preformed) no-flagger Condition on 7th.

PRCCP20240215  
PCR002 REV 2  
Approved 9/13/2024

**FULL CLOSURE IS ONLY AUTHORIZED FOR THE CONNECTION WITHIN VALLEY AVE - NIGHT WORK IS REQUIRED WHILE WORKING IN VALLEY AVE + 50 FT NORTH ON 7TH ST NW FROM THE STOP BAR AT VALLEY**

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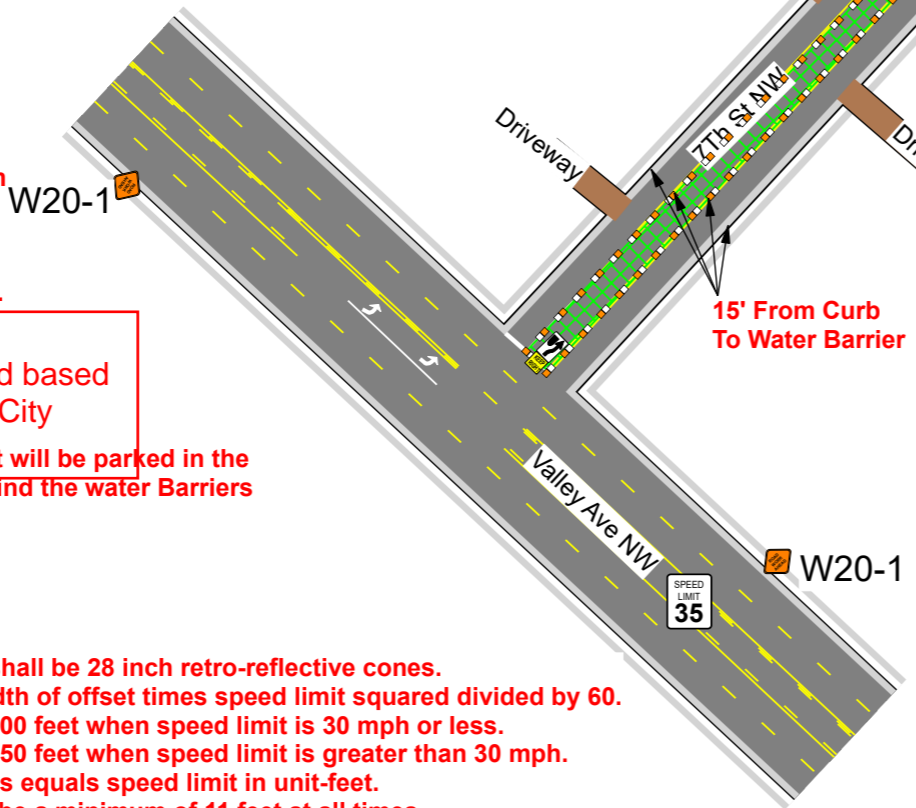
Daytime work hours are restricted to 8am-3pm. Work hours may be altered based on conditions, at the discretion of the City Inspector.

The Equipment will be parked in the work zone behind the water Barriers

- Traffic control devices shall be 28 inch retro-reflective cones.
- Taper length equals width of offset times speed limit squared divided by 60.
- Sign spacing shall be 100 feet when speed limit is 30 mph or less.
- Sign spacing shall be 350 feet when speed limit is greater than 30 mph.
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- Travel lane width must be a minimum of 11 feet at all times.
- All flaggers and spotters shall remain in radio contact at all times.

**GENERAL NOTES**  
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2. SIGN SPACING MAYBE REDUCED IN URBAN AREAS TO FIT ROADWAYS CONDITIONS.  
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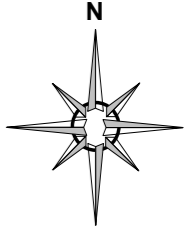
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LONGITUDINAL BUFFER SPACE = B										
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LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH
100'	123'	172'	74'	100'	150'					



### 7Th St NW Water Barrier

Call Jeff Hill, City Inspector, at 253-204-5633 prior to starting any work.

The duration will be 4-6 weeks on the plan



TCP Design By Dusty Willis  
TCS # WA007949  
Exp. Date: 1-24-2026  
Phone # 253-377-6195  
Dusty@Pivetta.com  
Date : 07-25-2024

**Legend**

- R4-7 Keep Right (Symbol)
- W9-3 center lane closed ahead
- W20-1 Road Work Ahead
- Water Filled Barrier
- Work Area

**MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)**

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

**MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)**

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8	40	40	60	90	120	130	150	160	170	190
10	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

**SIGN SPACING = X (ft)**

FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**IF APPLICABLE**  
THESE SIGNS SHALL BE DISPLAYED DURING NON-WORKING HOURS ACCORDING TO RCW 47.36.200

**Treatment Center location #2**

Treatment Monitoring Conex:

Treatment Monitoring Pods (Actual treatment before Discharge)

Pump & Fuel Cell:

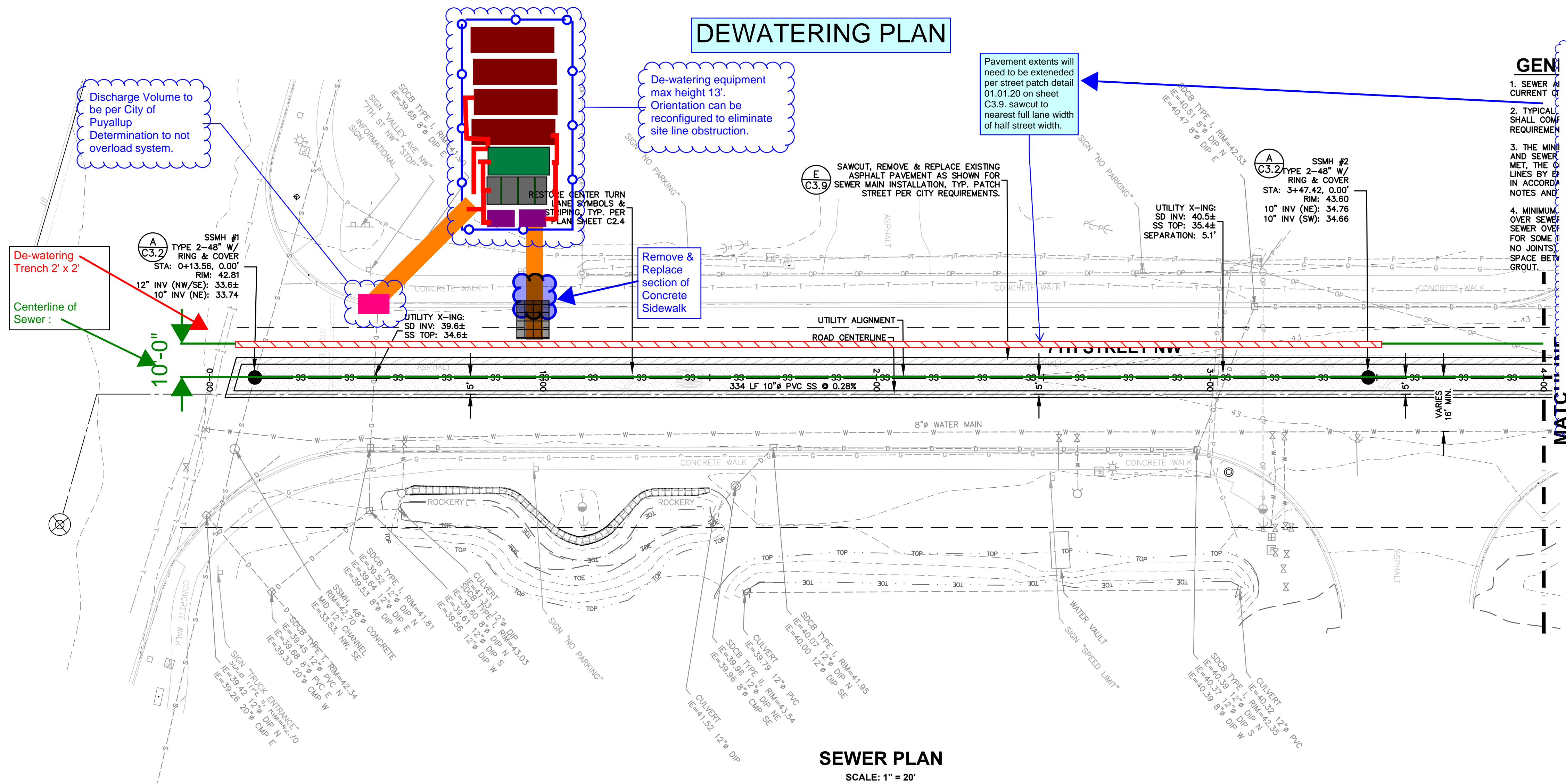
Storage tanks:

UG de-watering connection point and discharge point:

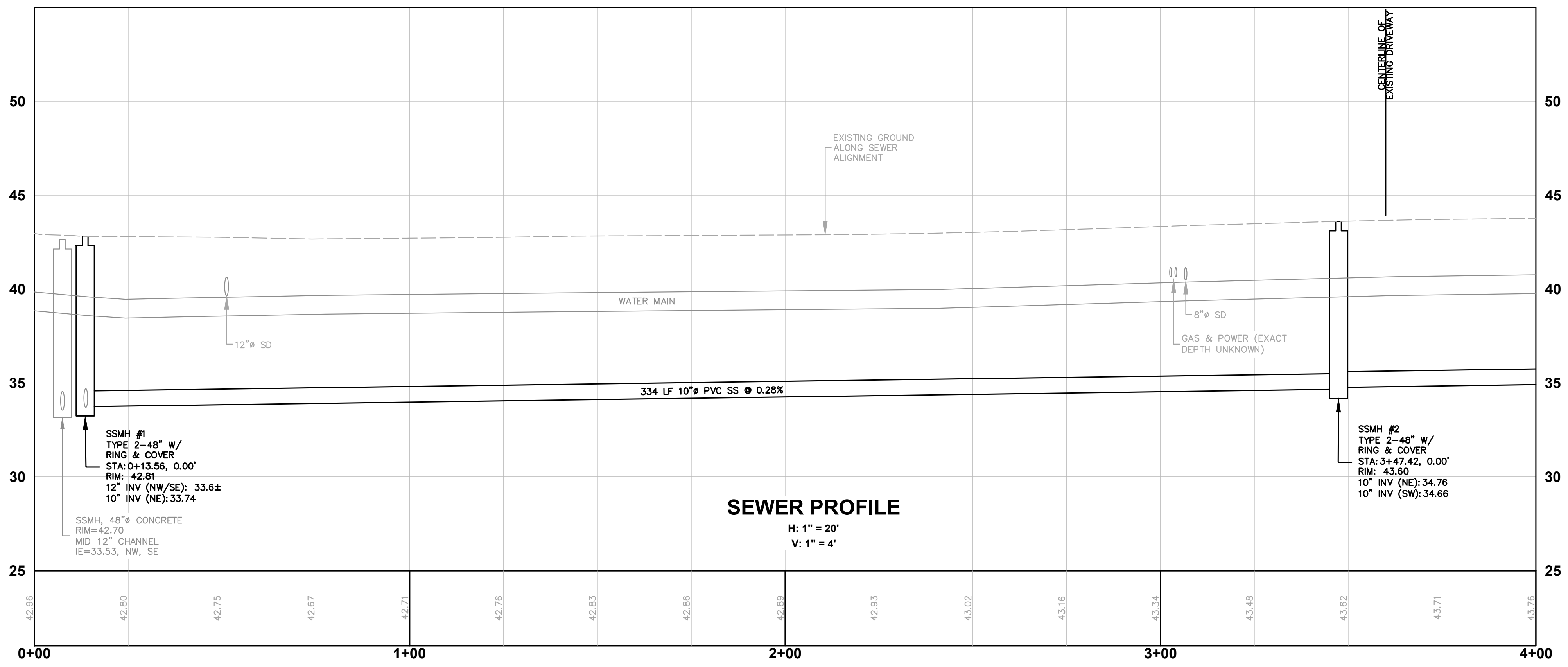
City Storm discharge point:

Individual PCV Lines to distribute water through system:

Steel Plate to allow UG Pump passage to treatment center



PRCCP20240215  
PCR002 REV 2  
Approved 9/13/2024



**GEN**

- SEWER AND SEWER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF PUYALLUP STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
- TYPICAL SHALL COMPLY WITH THE CITY OF PUYALLUP STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
- THE MINIMUM COVER OVER SEWER MAINS SHALL BE 5 FEET UNLESS OTHERWISE SPECIFIED.
- MINIMUM COVER OVER SEWER MAINS SHALL BE 5 FEET UNLESS OTHERWISE SPECIFIED.

34' PUBLIC ROADWAY CROSS SECTION

**ZERVAS**

ARCHITECTURE | INTERIOR DESIGN

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**FREELAND & ASSOCIATES**

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f: 360.650.1401

**ALLAN PATRICK MORAHER**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
48494  
05/13/2024

**811**  
Know what's below.  
Call before you dig.

**APPROVED**

BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

**100% CD SET**

REV	ISSUED FOR	DATE

PLAN NORTH      TRUE NORTH

SCALE: 1"=20'

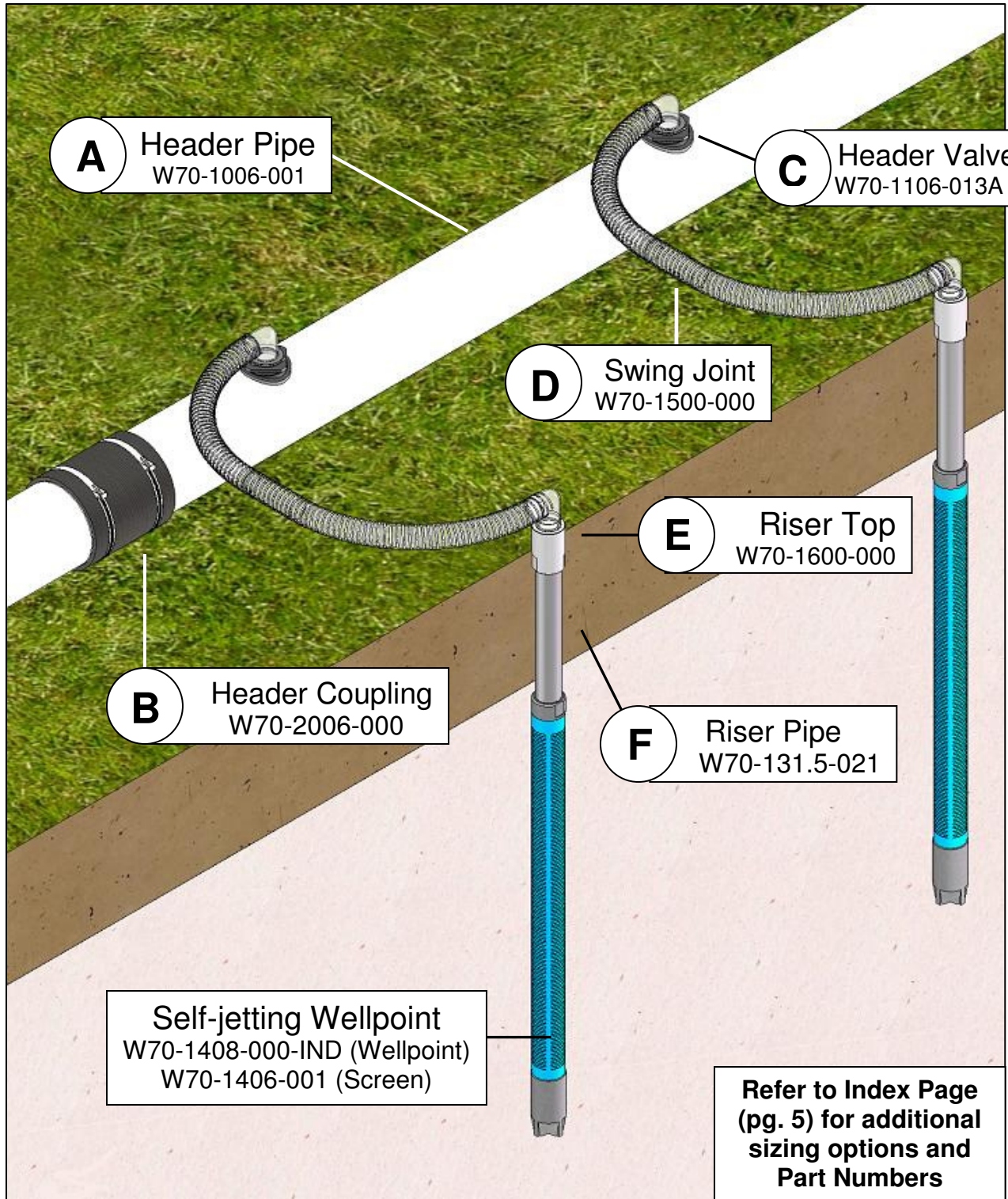
**PSE - OPERATIONAL TRAINING CENTER**

**SEWER PLAN & PROFILE - 0+00 - 4+00**

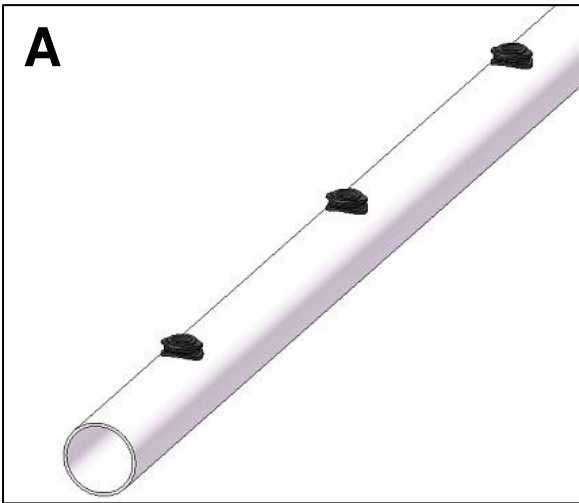
PROJECT No: 22219  
DRAWN BY: MPM  
CHECKED BY: THF  
DATE ISSUED: 09/31/2024

**C2.2A**

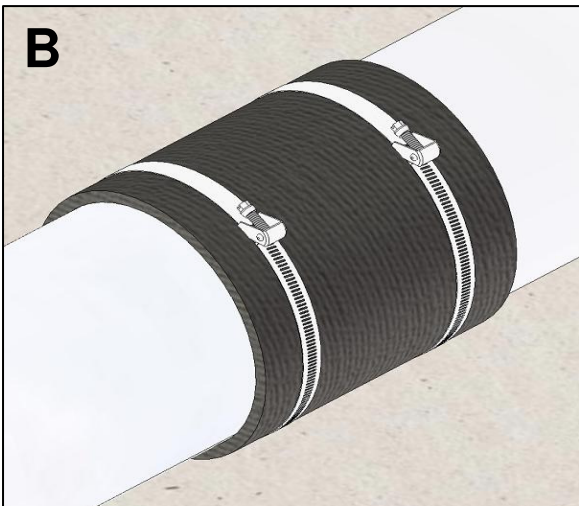
# Wellpoint Systems and Accessories



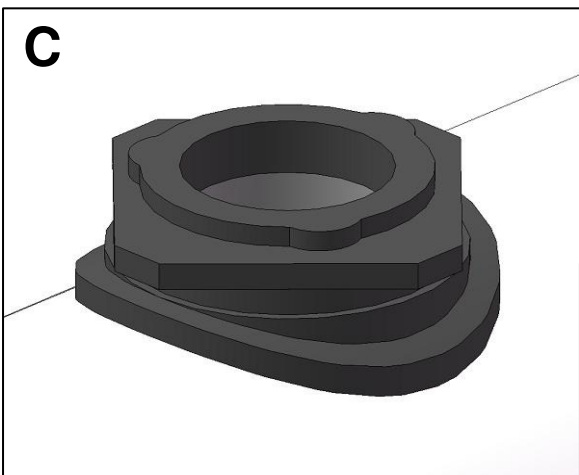
## Standard Wellpoint Installation and Components



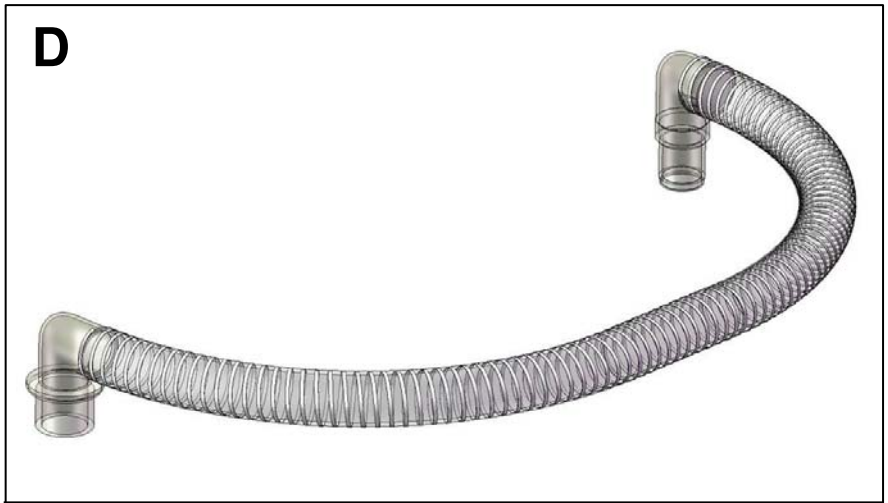
**A**  
**Header Pipe** – Choice of standard 6” or 8” diameters. Used to direct ground water to the pump.  
 P#: W70-1006-0001 (6”)  
 P#: W70-1008-0001 (8”)



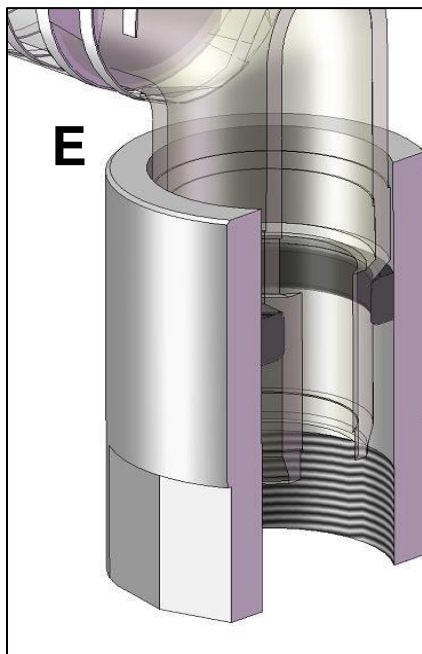
**B**  
**Header Coupling** – Flexible rubber sleeve with stainless steel clamps to temporarily connect header pipes.  
 P#: W70-2006-000 (6”)  
 P#: W70-2008-000 (8”)



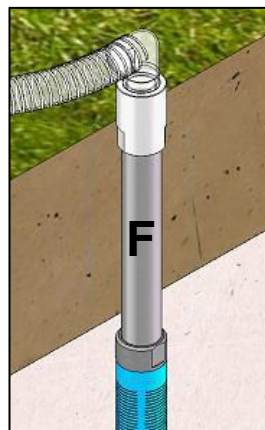
**Header Valve** – Adjustable plastic valves that control water and air flow into the Header Pipe from the Wellpoints. P#: W70-1106-013A (6”)  
 P#: W70-1108-013A (8”)



**D**  
**Swing Joint** – Clear flexible hose that connects the riser pipe to the header valve assembly.  
 P#: W70-1500-000



**E**  
**Aluminum Riser Top** – Aluminum cap for the galvanized Wellpoint system. Threaded to receive the riser pipe on one end, with a small washer fitted in the center to create a seal with the swing joint on the other.  
 P#: W70-1600-000 (cap)  
 P#: W70-1600-001 (small washer)



**F**  
**Standard Steel Riser Pipe** – Used to lengthen the wellpoint to achieve a desired depth. Riser pipes are available in galvanized steel (standard) or PVC, and are typically between 8’ and 21’ in length, depending on the application (shown smaller for illustrative purposes).  
 P#: W70-131.5-021 (21’)