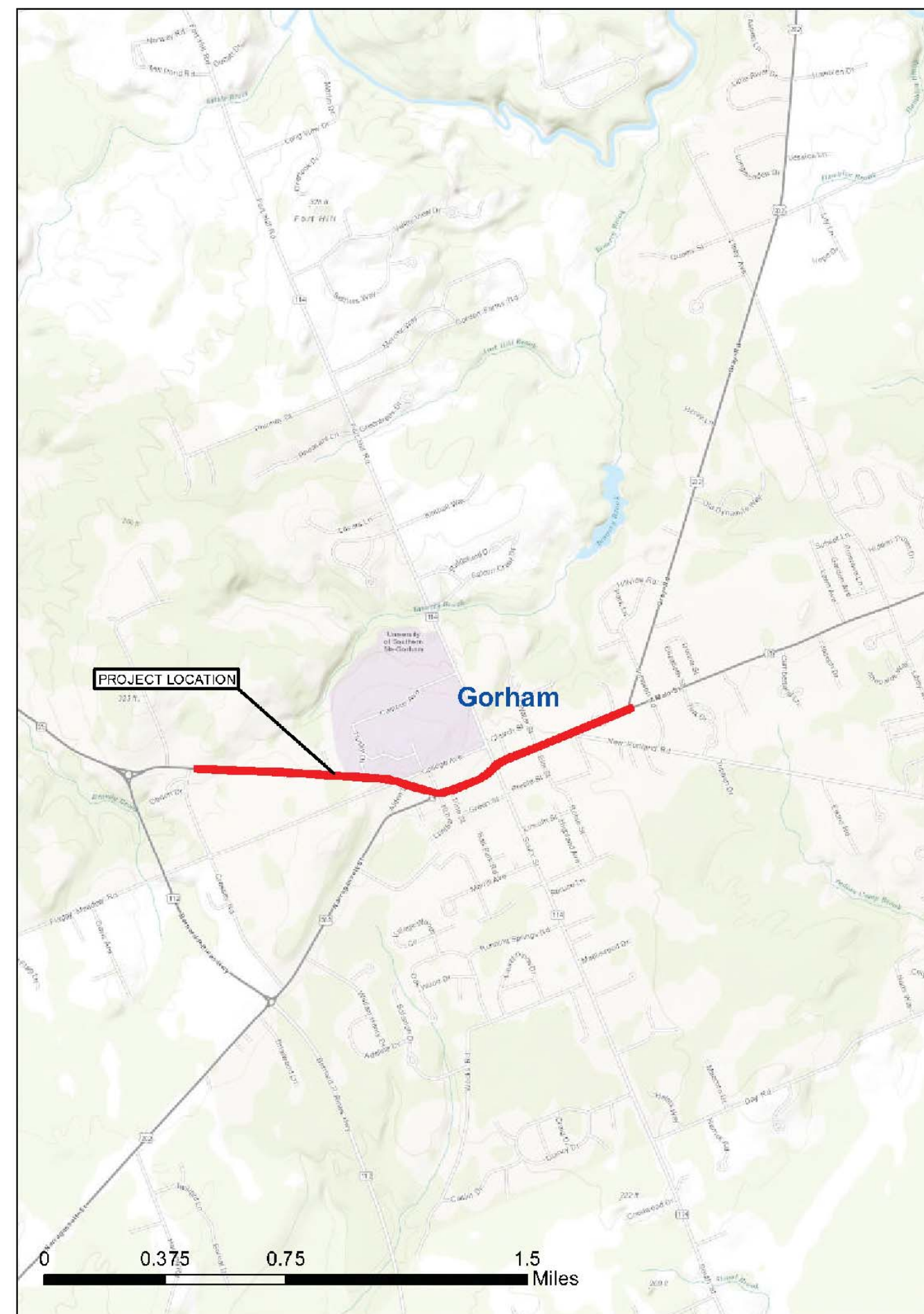


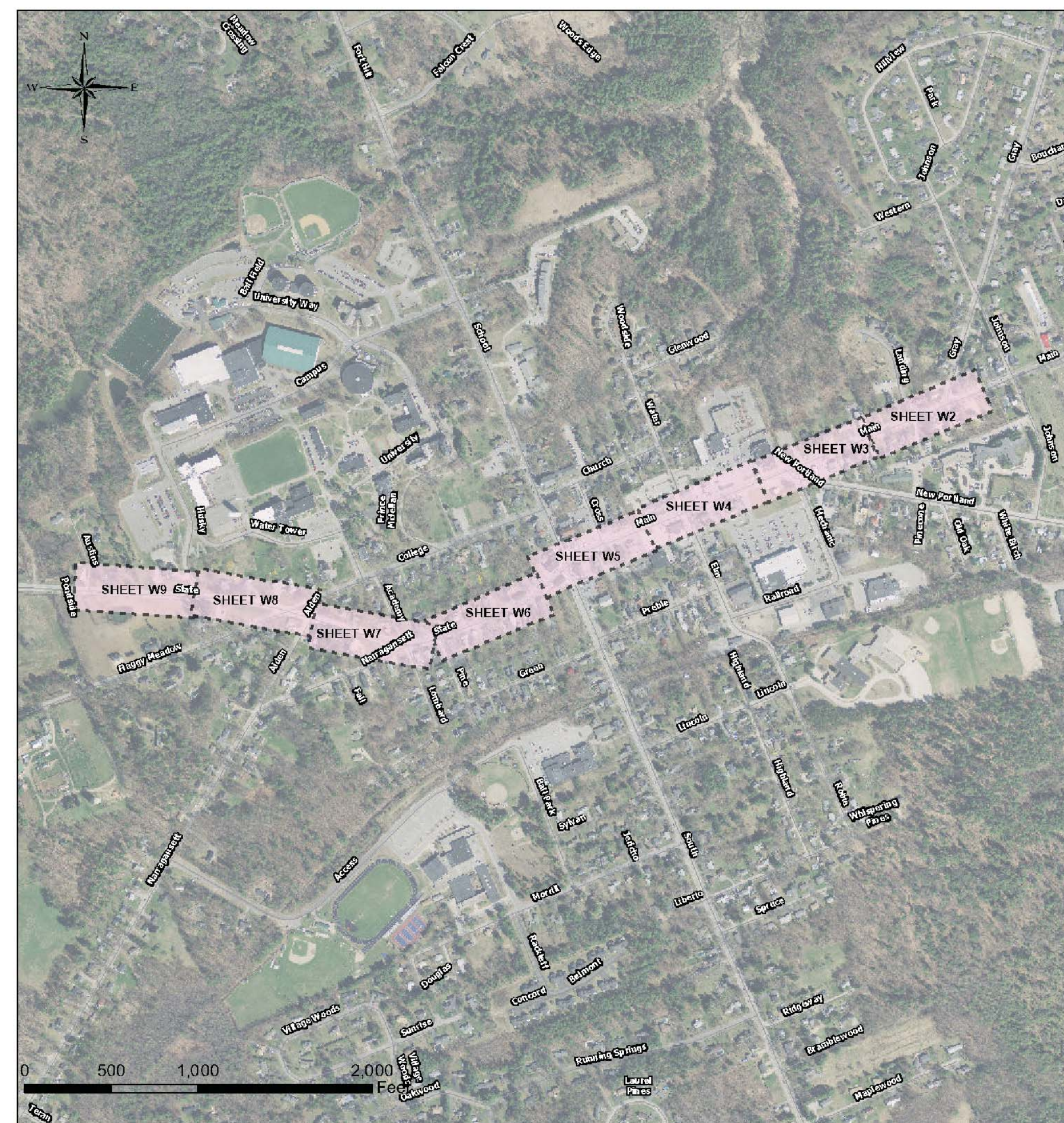
**PORTLAND WATER DISTRICT
PORTLAND, MAINE**

**MAIN STREET AND STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT**

PROJECT LOCATION



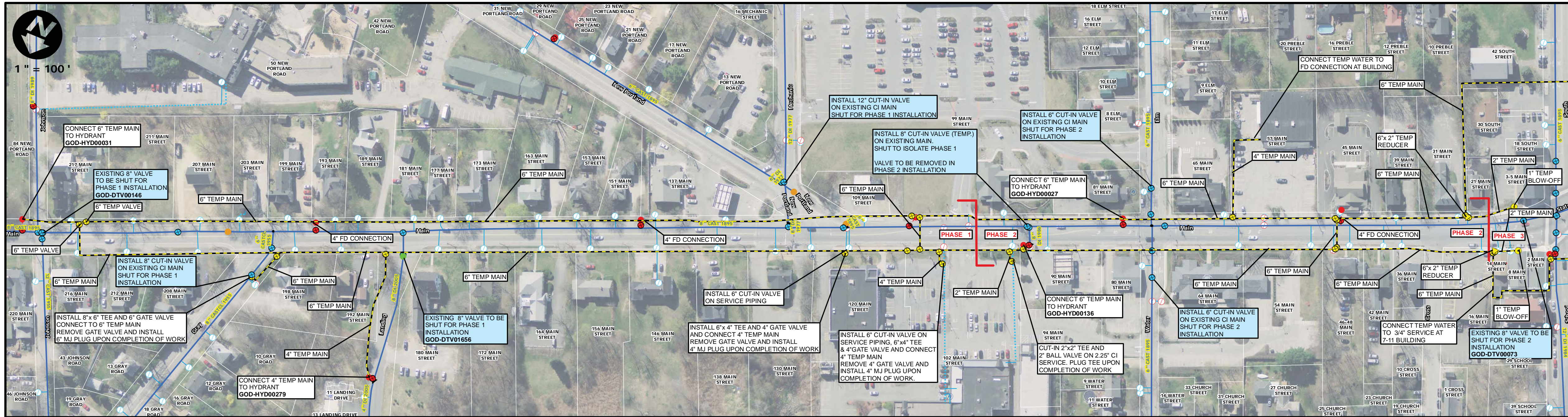
AREA MAP



DRAWING INDEX

<u>PWD SHEET</u>	<u>DESCRIPTION</u>
W1	TEMPORARY WATER OVERVIEW PLAN
W2	MAIN STREET / GRAY ROAD (ROUTE 202)
W3	MAIN STREET / NEW PORTLAND ROAD
W4	MAIN STREET / ELM & WATER STREETS
W5	MAIN & STATE STREETS / SCHOOL & SOUTH STS
W6	STATE STREET
W7	STATE STREET / NARRAGANSETT STREET
W8	STATE STREET / FLAGGY MEADOW ROAD
W9	STATE STREET
W10	STANDARD DETAILS (1/2)
W11	STANDARD DETAILS (2/2)

2018



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PROJECT: **284244**

**MAIN AND STATE STREETS
GORHAM, MAINE
WATER MAIN REPLACEMENT
TEMPORARY WATER PLAN**

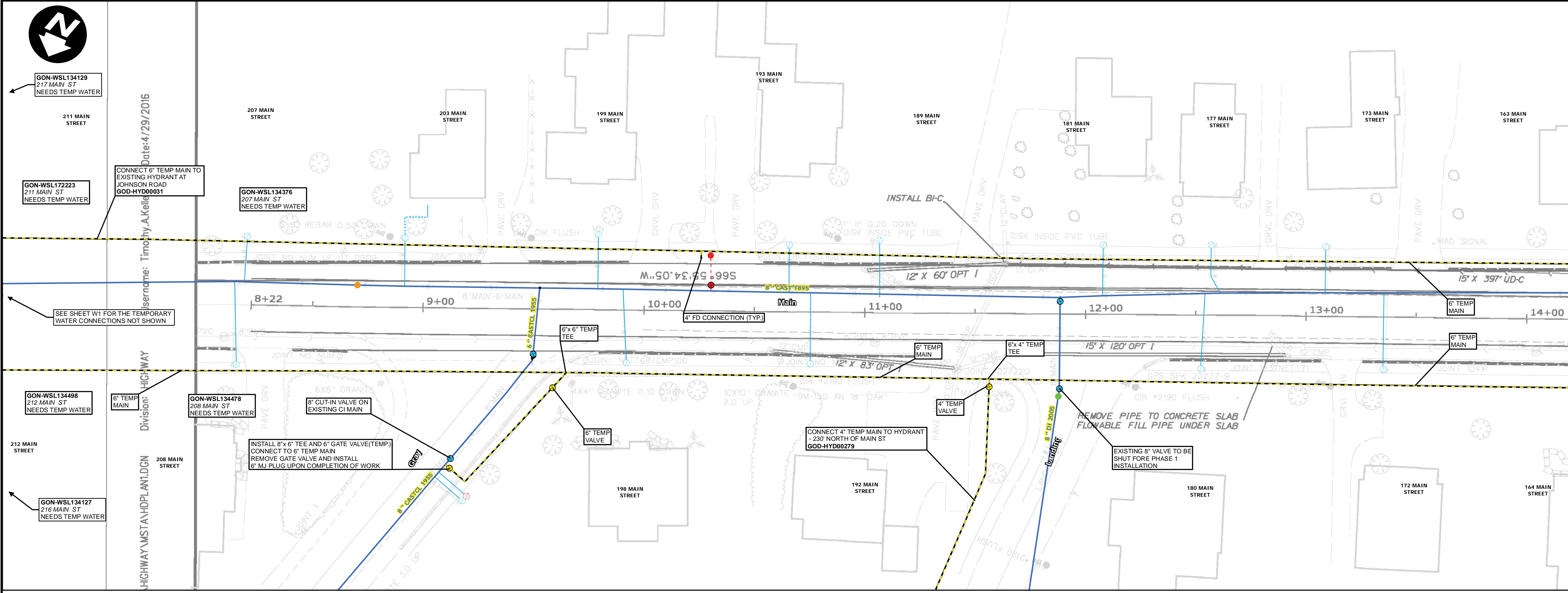


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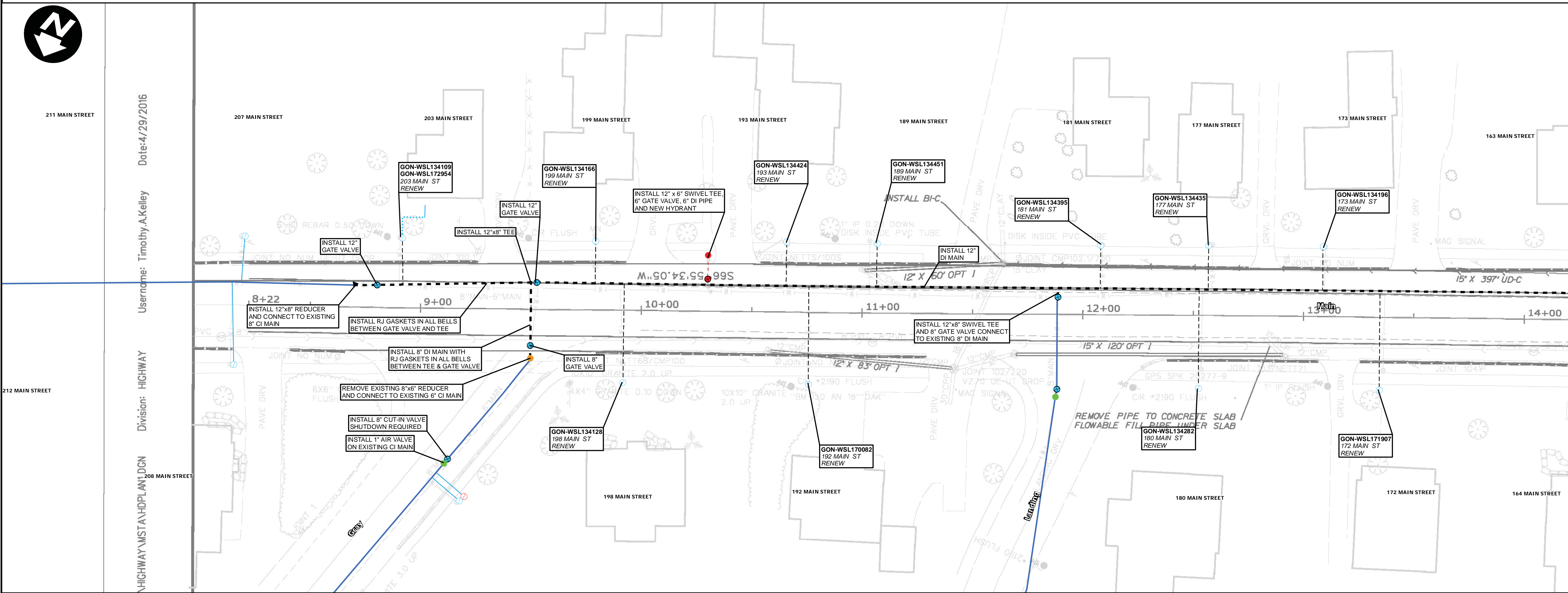
Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
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SHEET: **W1 OF W11**



EXISTING AND TEMPORARY MAINS
1" = 25'



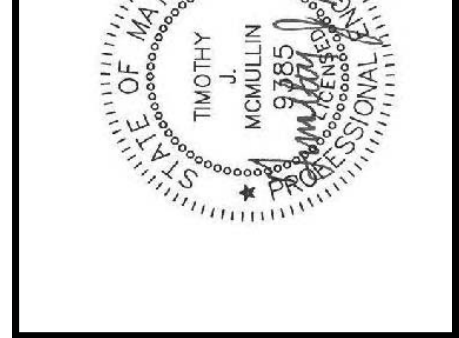
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PROJECT: **284244**

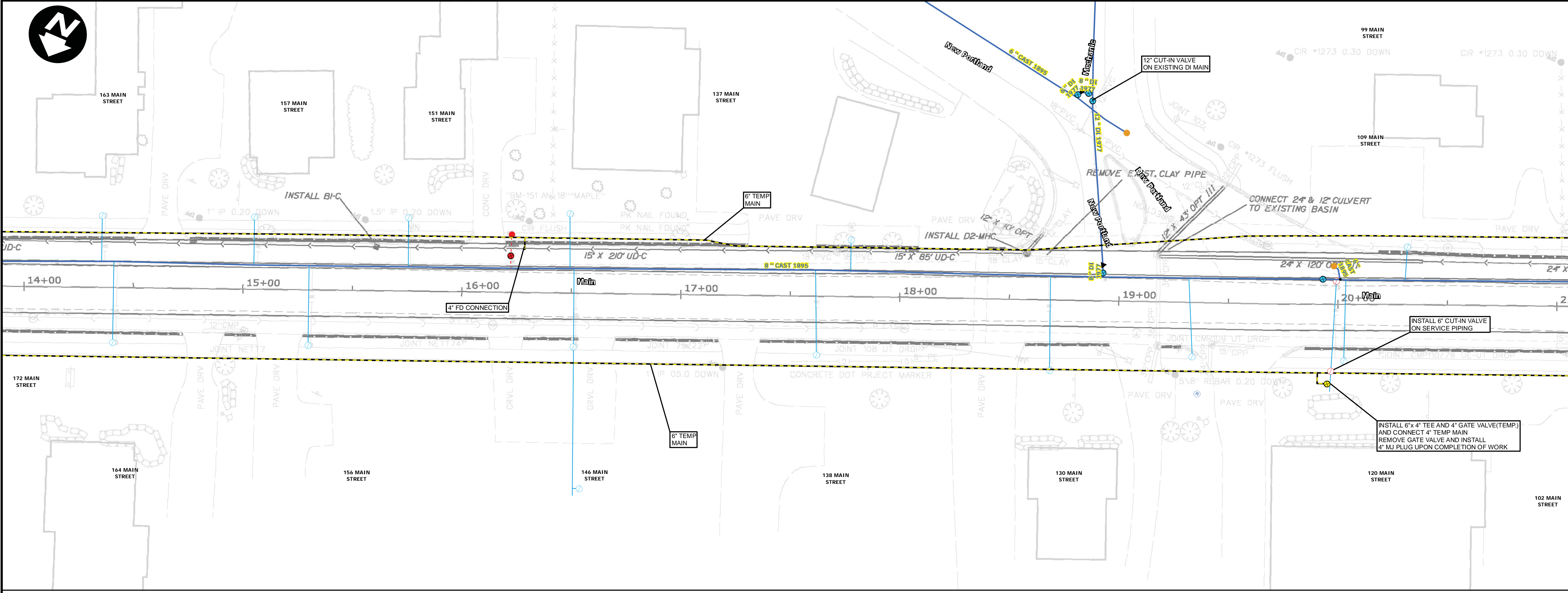
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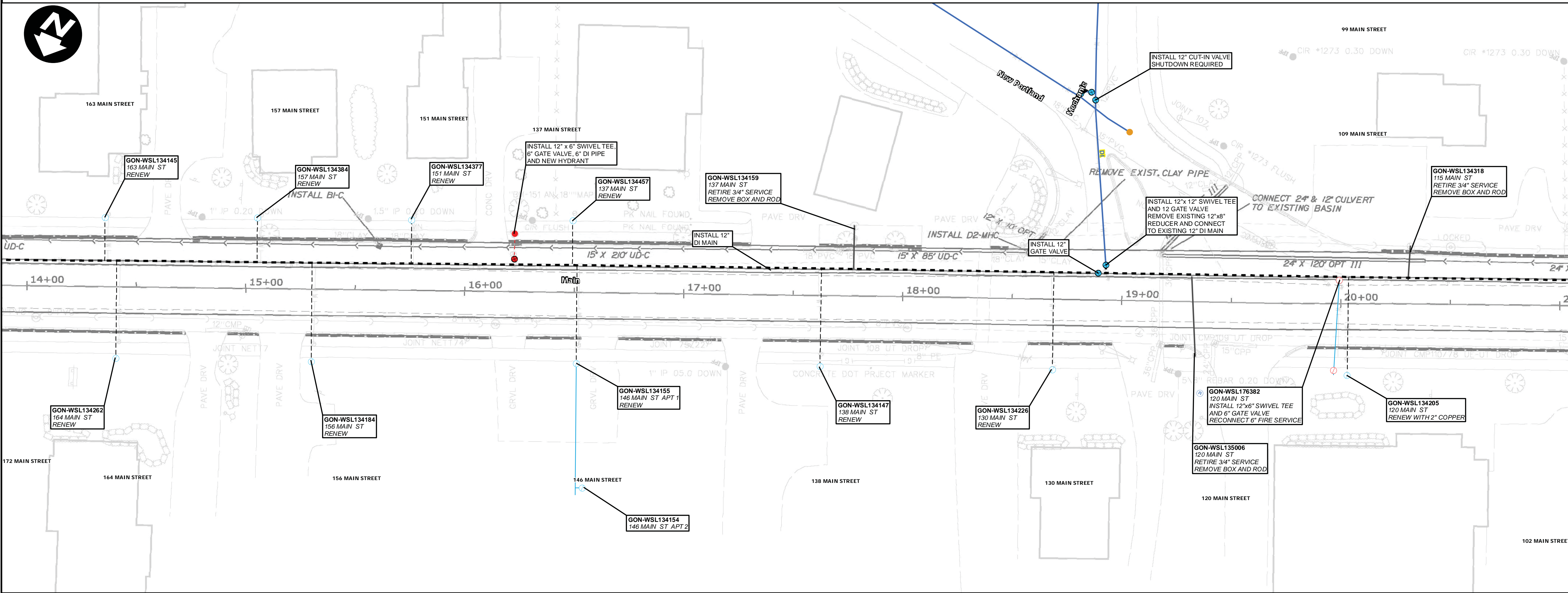
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Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
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SHEET: **W2 OF W11**



EXISTING AND TEMPORARY MAINS
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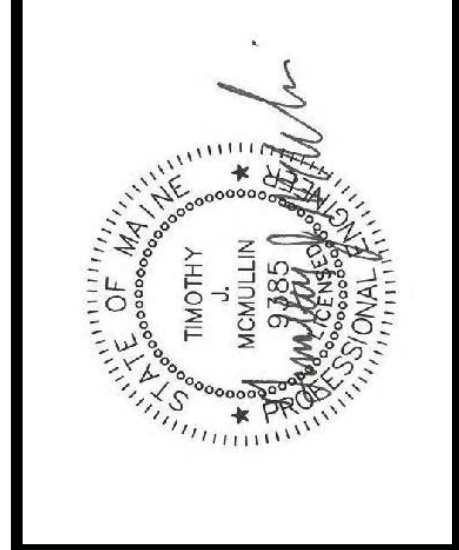
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PROJECT:
284244

**MAIN STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT**

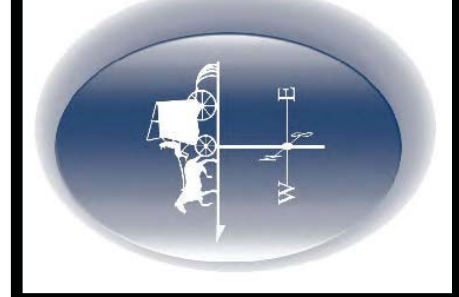


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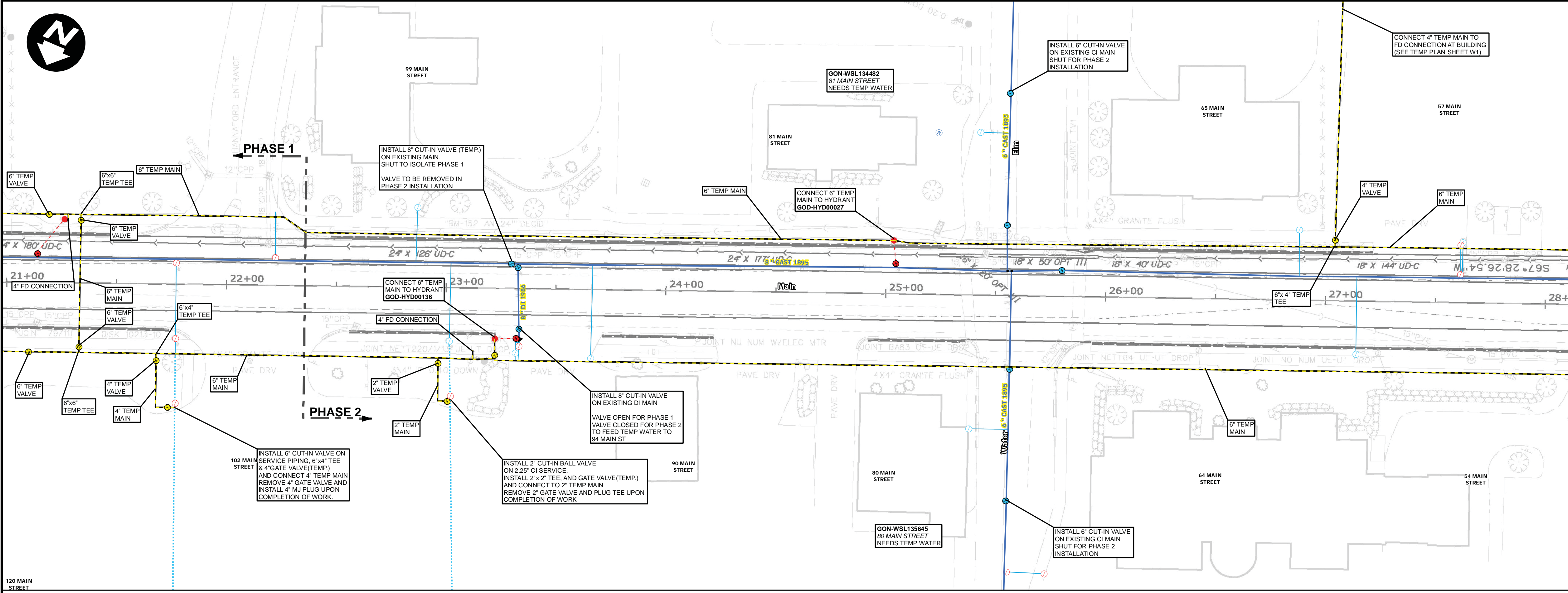
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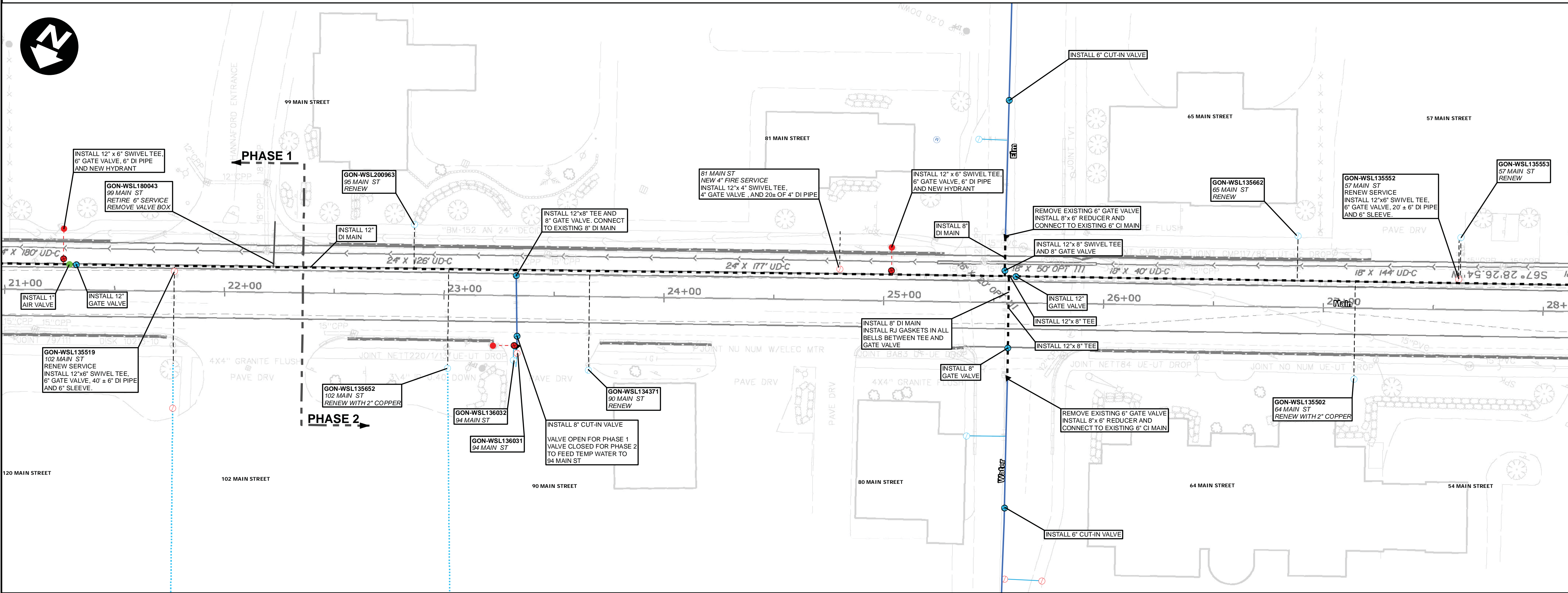
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SHEET:
W3 OF W11



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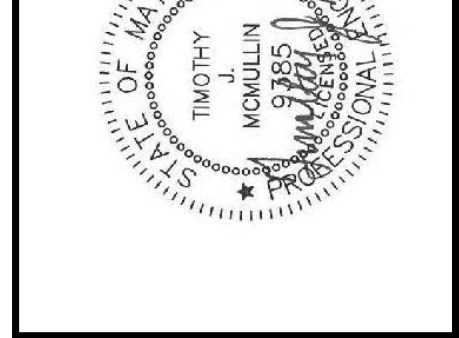
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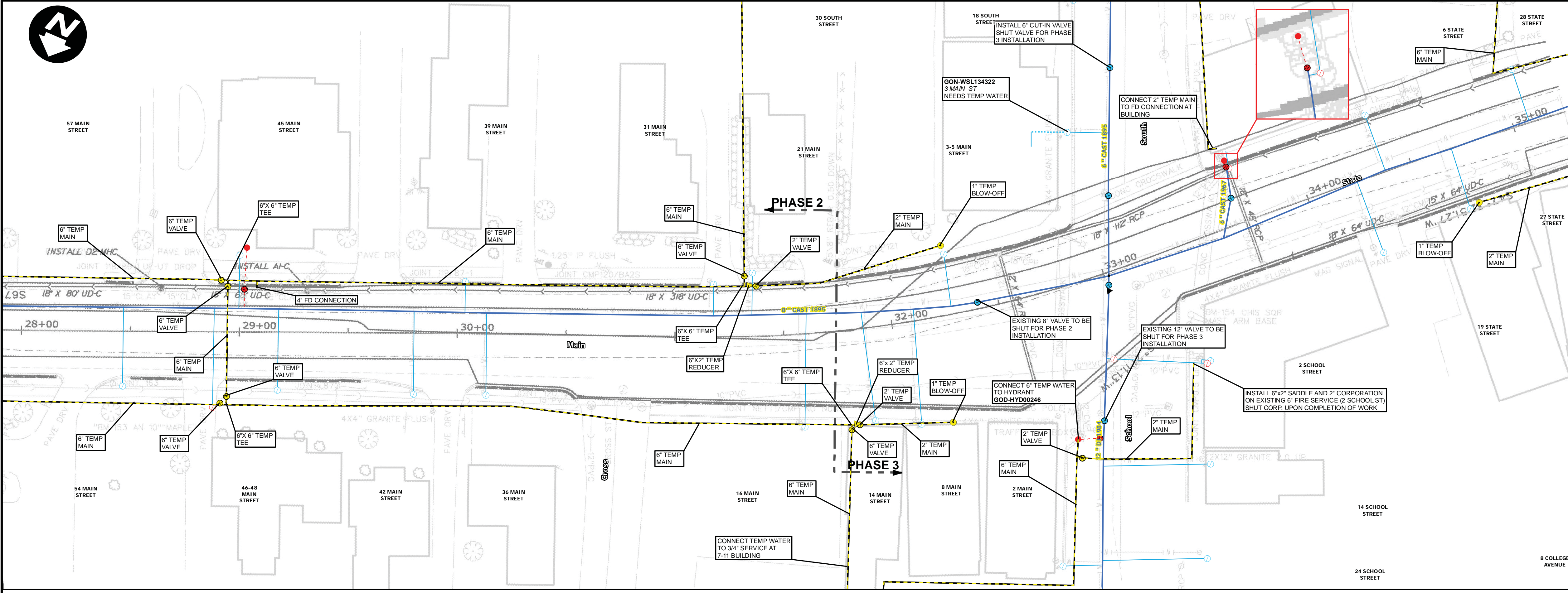
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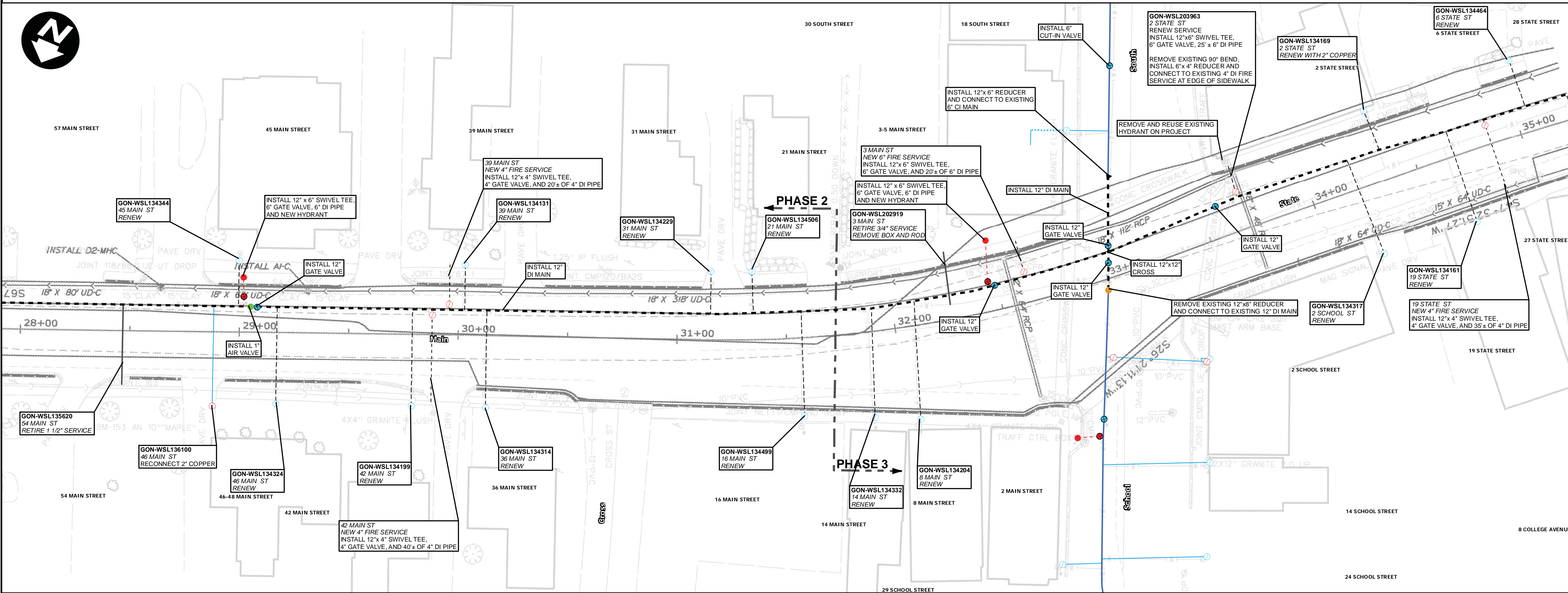
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SHEET: **W4 OF W11**



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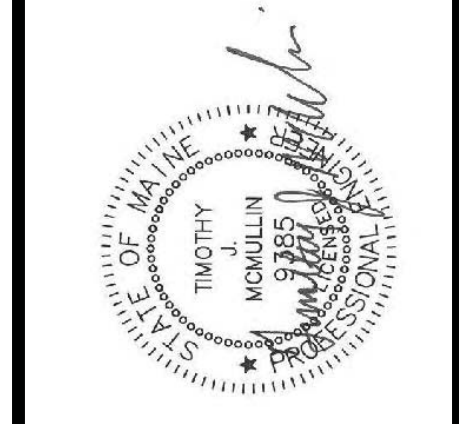
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 - - - - PROPOSED/RENEWED SERVICE
 - RECONNECT SERVICE

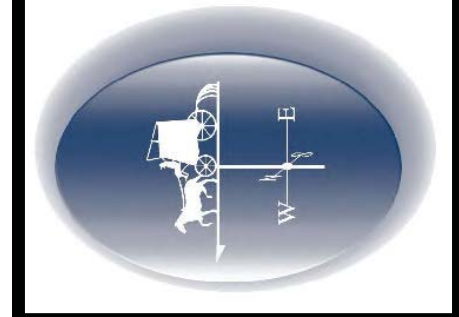
PROJECT: 284244

**MAIN STREET & STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT**

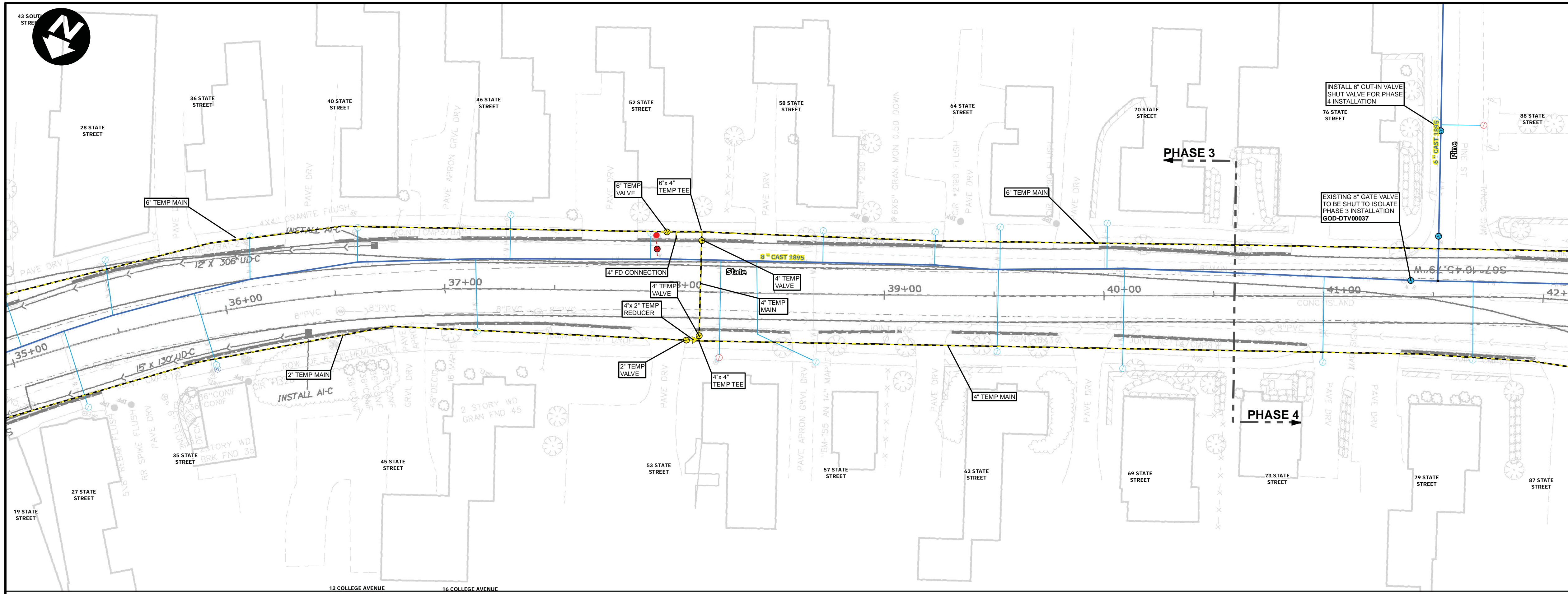


DRAWN BY: BJS
DESIGN BY: TM
DATE: 06/21/2017

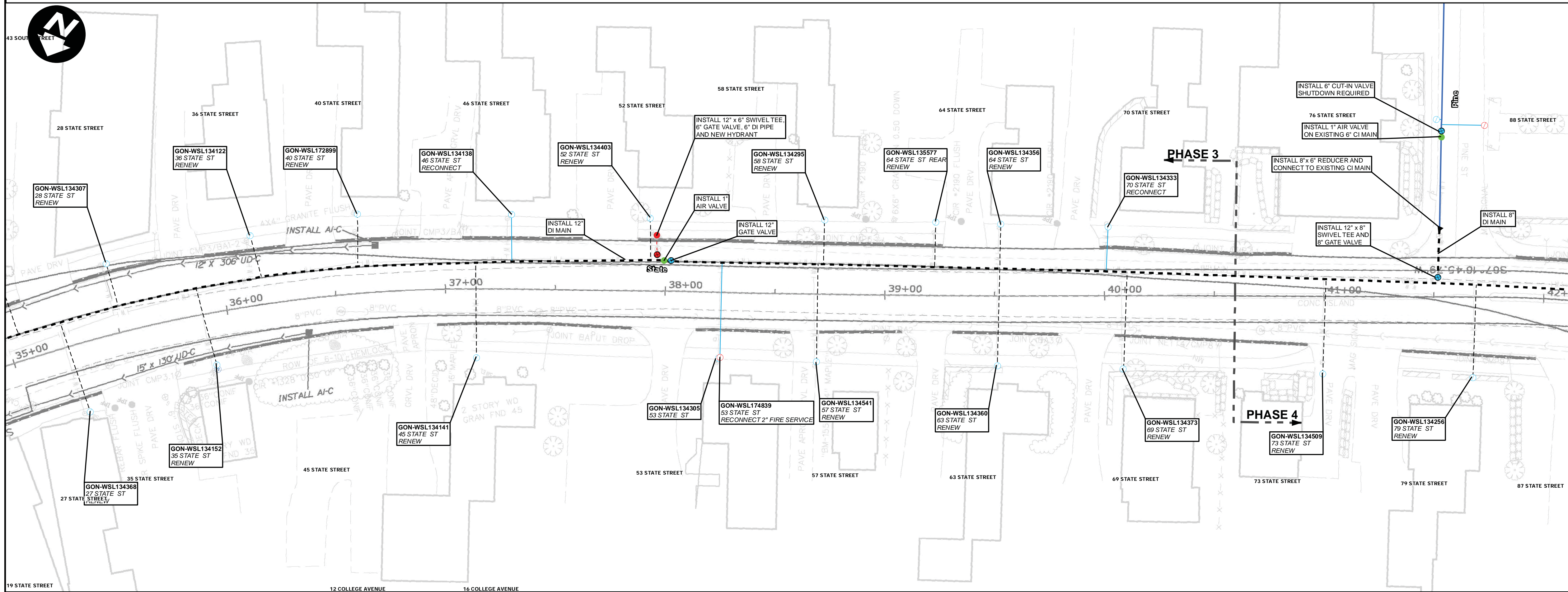
Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
(207) 774-5961 • WWW.PWD.ORG



SHEET: W5 OF W11



EXISTING AND TEMPORARY MAINS
1" = 25'



PROPOSED MAINS
1" = 25'

NOTES

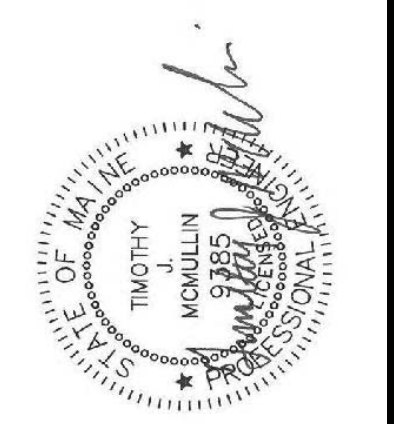
- CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED PIPING AND APPURTENANCES.
- ALL MAINS AND SERVICES SHALL BE INSTALLED WITH 5.5' OF COVER MEASURED FROM PROPOSED ROAD GRADE UNLESS APPROVED BY A PWD REPRESENTATIVE.
- THE PORTLAND WATER DISTRICT WILL NOTIFY CUSTOMERS FOR ALL WORK INVOLVING TEMPORARY SHUT DOWN OF SERVICE. CUSTOMERS MUST RECEIVE AT LEAST 48 HOURS NOTIFICATION PRIOR TO ANY SHUT DOWN. THE DISTRICT MUST RECEIVE NOTICE FROM THE CONTRACTOR OF THE SHUT DOWN AT LEAST 48 HOURS PRIOR TO CUSTOMER NOTIFICATION.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY-WRAPPED PER SPECIFICATIONS.
- IF PROPERTIES REQUIRING A TEMPORARY WATER CONNECTION HAVE MALFUNCTIONING SILCOCKS OR NO EXTERIOR PLUMBING, IT MAY BE NECESSARY TO EXCAVATE AND CONNECT INTO THE EXISTING SERVICE LINE BEHIND THE EXISTING SHUT-OFF VALVE TO PROVIDE TEMPORARY SERVICE.
- INSTALL 4" TEMPORARY FIRE DEPT CONNECTION (TYP), 4" GATE VALVE, 90° ELBOW, RISER PIPE, 90° ELBOW AND 4-1/2" NPT STEAMER PORT CONNECTION WITH CAP. ALL JOINTS TO BE RESTRAINED. STEAMER PORT, RISER AND TEE TO BE ANCHORED TO THE GROUND. OUTLET TO BE CALLED 1" AND 2" OFF THE GROUND.
- REMOVE ALL OLD PIPING NOT EXPLICITLY CALLED OUT FOR ABANDONMENT.
- TEMPORARY WATER SYSTEM SHALL ONLY BE ACTIVE BETWEEN APRIL 15TH AND OCTOBER 15TH. ACTIVATION OUTSIDE THIS PERIOD MUST BE APPROVED BY PWD.
- CONTRACTOR MUST ALLOW SUFFICIENT TIME TO TRANSFER WATER SERVICES FROM EXISTING WATER MAIN TO TEMPORARY WATER SERVICES INSTALLED BY CONTRACTOR AND TO TRANSFER SERVICE TO NEW WATER MAIN/SERVICE LINE UPON SUCCESSFUL TESTING OF SAMPLE FOR ABSENCE OF BACTERIA. THE CONTRACTOR SHALL NOT CLAIM ANY DELAY-RELATED COSTS OR TIME RELATED TO THIS WORK.
- SIDEWALKS MUST REMAIN OPEN AT ALL TIMES OR REASONABLE DETOURS PROVIDED.
- LOCATIONS OF UTILITIES OTHER THAN WATER ARE APPROXIMATE, AND NOT ALL UTILITIES ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, SUPPORTING AND PROTECTING ALL UTILITIES DURING INSTALLATION OF THE WATER MAIN.
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- INSTALL SWIVEL TYPE TEES ON ALL BRANCH CONNECTION TO VALVES.
- INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL ABANDONED MAINS.
- LEDGE WAS ENCOUNTERED ON THE EXISTING WATER MAIN INSTALLATION APPROXIMATELY BETWEEN STA. 33+40 - 34+30 AND BETWEEN 34+90 - 42+50 (DEPTH UNKNOWN).
- TEMPORARY MAINS SHALL BE BURIED BELOW EXISTING GRADE ACROSS ALL STREET AND DRIVEWAY CROSSINGS. INSTALL AND MAINTAIN TEMPORARY PAVEMENT IN THESE AREAS. FINAL RESTORATION OF PAVEMENT SHALL MATCH EXISTING DEPTH FOR DRIVEWAY CROSSINGS.
- ALL SERVICES SHALL BE RENEWED TO STREET LINE. SIZE AND MATERIAL SHALL BE 1" COPPER UNLESS OTHERWISE NOTED.
- IN THE EVENT THAT DISCREPANCIES OR CONFLICTS BETWEEN MAINE DOT SPECIFICATIONS, SPECIAL PROVISIONS AND PLANS, MAINE DOT OR MORE RESTRICTIVE SHALL PREVAIL.

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- TEMPORARY WATER MAIN
- PROPOSED/RENEWED SERVICE
- RECONNECT SERVICE

PROJECT:
284244

**STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT**

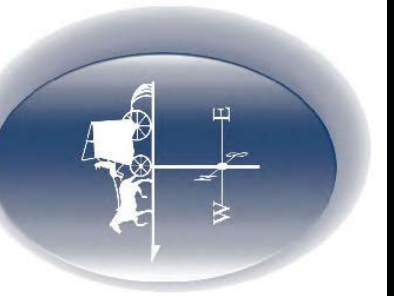


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BSJ

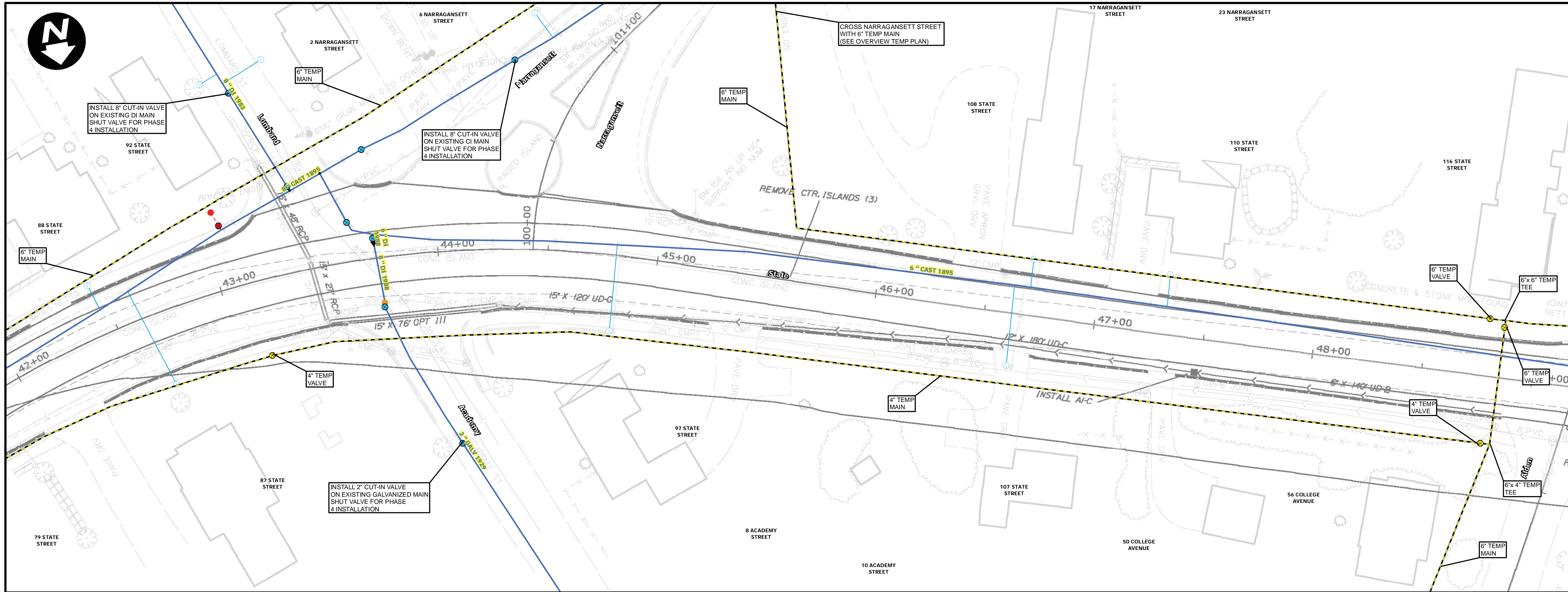
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TM

DATE:
06/21/2017

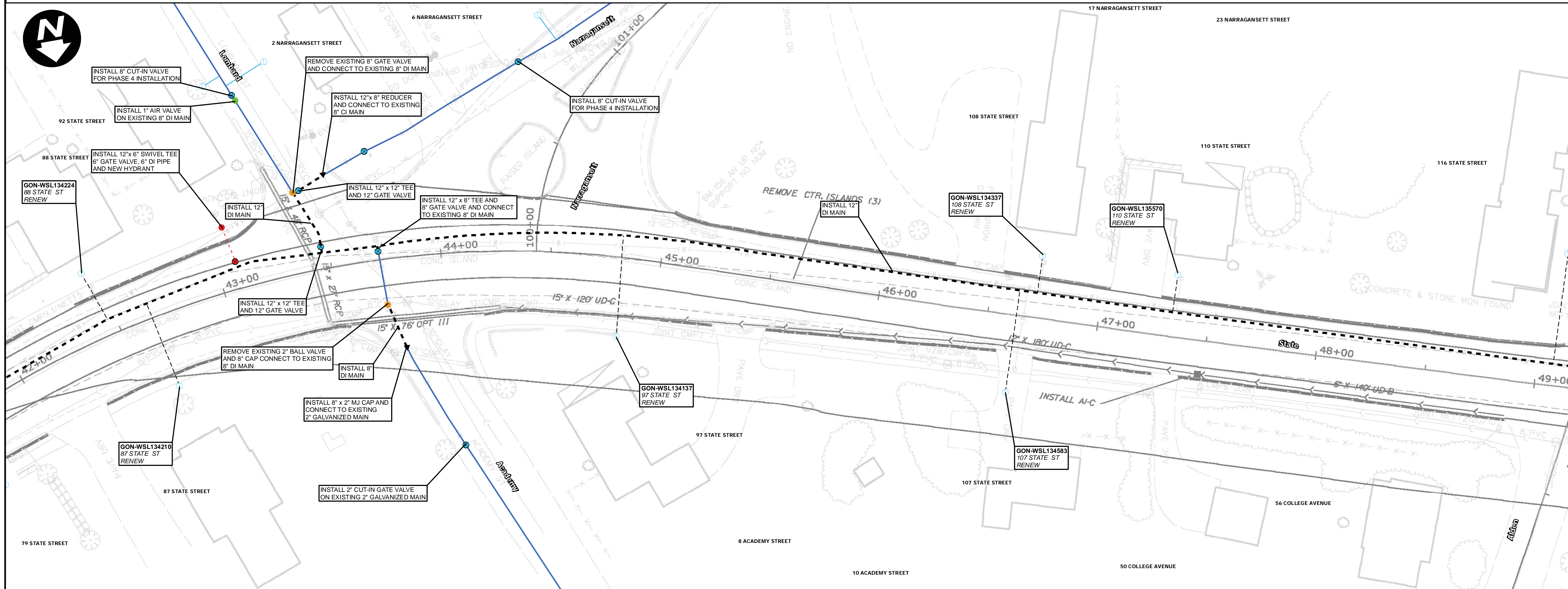
Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
(207) 774-5961 • WWW.PWD.ORG



SHEET:
W6 OF W11



EXISTING AND TEMPORARY MAINS
1" = 25'



PROPOSED MAINS
1" = 25'

NOTES

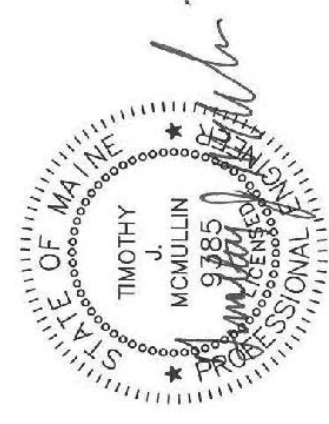
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2. ALL MAINS AND SERVICES SHALL BE INSTALLED WITH 5.5' OF COVER MEASURED FROM PROPOSED ROAD GRADE UNLESS APPROVED BY A PWD REPRESENTATIVE.
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4. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY-WRAPPED PER SPECIFICATIONS.
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6. INSTALL 4" TEMPORARY FIRE DEPT CONNECTION (TYP), 4" GATE VALVE, 90° ELBOW, RISER PIPE, 90° ELBOW AND 4-1/2" NPT STEAMER PORT CONNECTION WITH CAP. ALL JOINTS TO BE RESTRAINED. STEAMER PORT, RISER AND TEE TO BE ANCHORED TO THE GROUND. OUTLET TO BE BETWEEN 1' AND 2' OFF THE GROUND.
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LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- TEMPORARY WATER MAIN
- PROPOSED/RENEWED SERVICE
- RECONNECT SERVICE

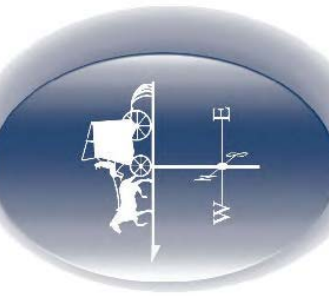
PROJECT: 284244

STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT

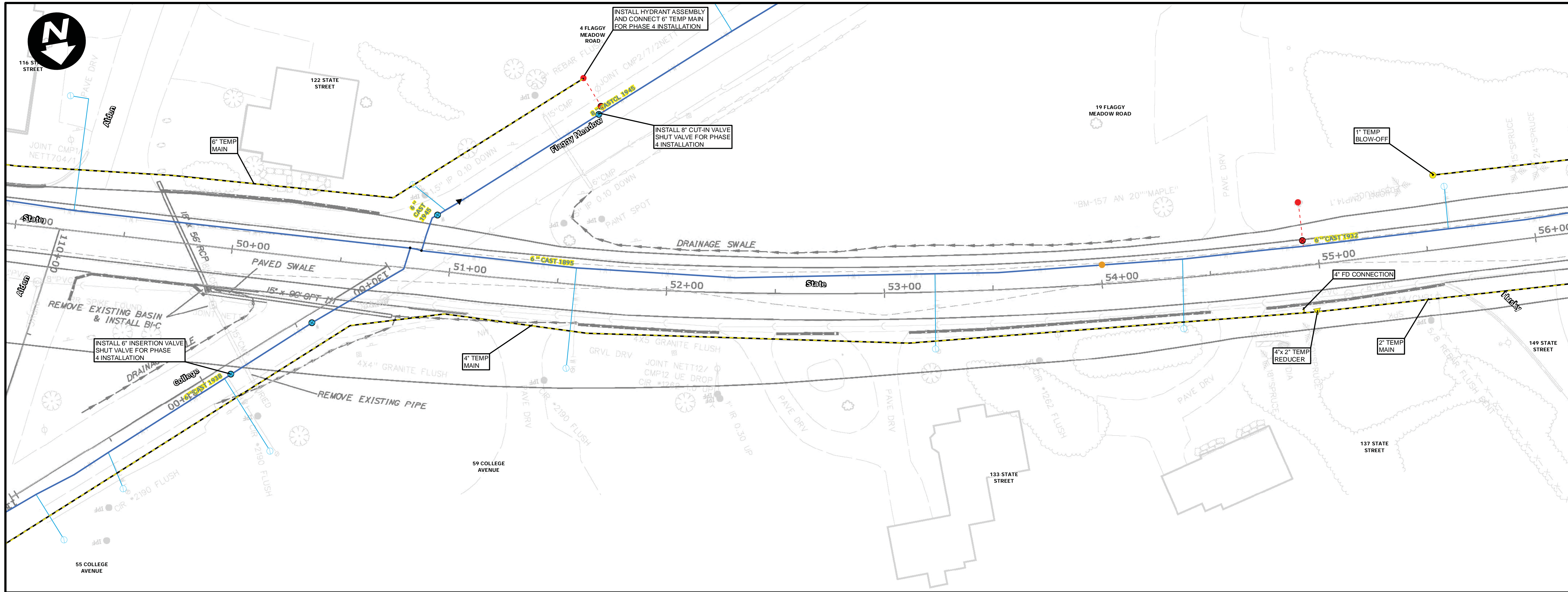


DRAWN BY: BSJ
DESIGN BY: TM
DATE: 06/21/2017

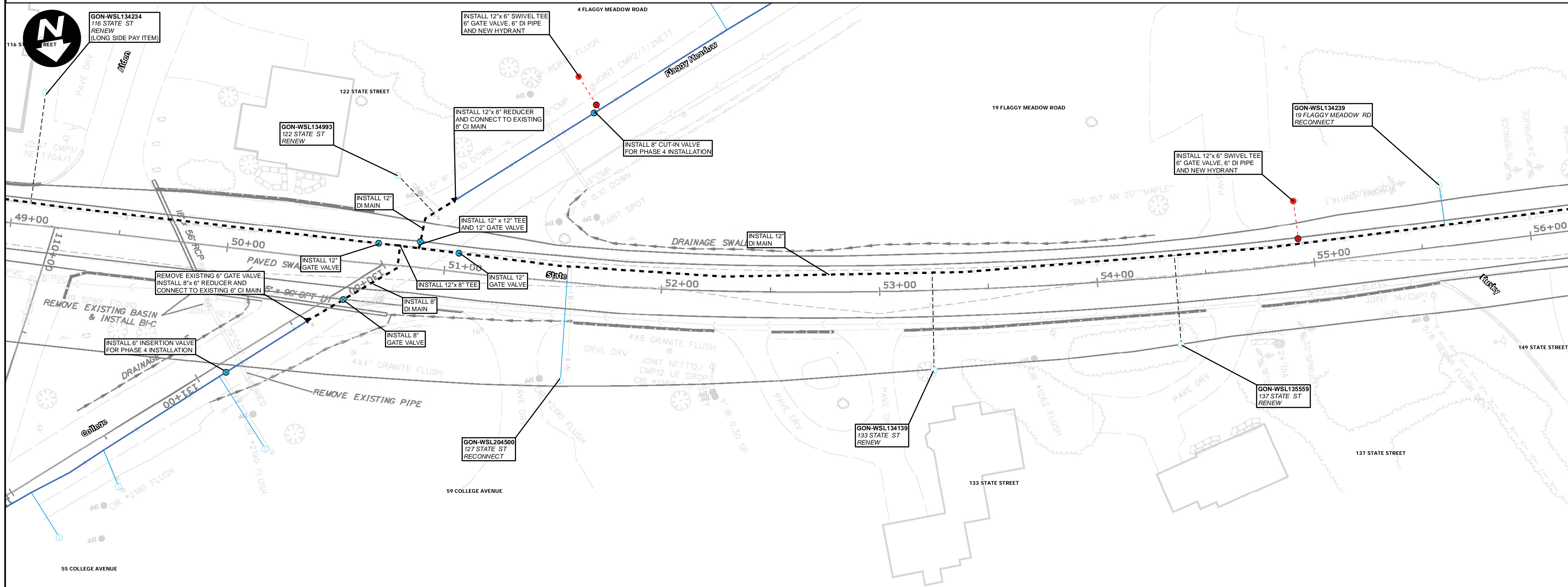
Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
(207) 774-5961 • WWW.PWD.ORG



SHEET: W7 OF W11



EXISTING AND TEMPORARY MAINS
1" = 25'



PROPOSED MAINS
1" = 25'

NOTES

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LEGEND

- EXISTING WATER MAIN
- - - - PROPOSED WATER MAIN
- - - - TEMPORARY WATER MAIN
- - - - PROPOSED/RENEWED SERVICE
- RECONNECT SERVICE

PROJECT:
284244

**STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT**

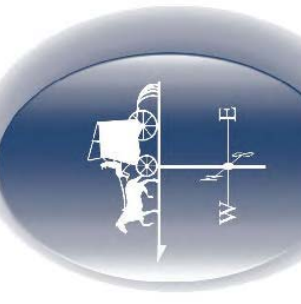


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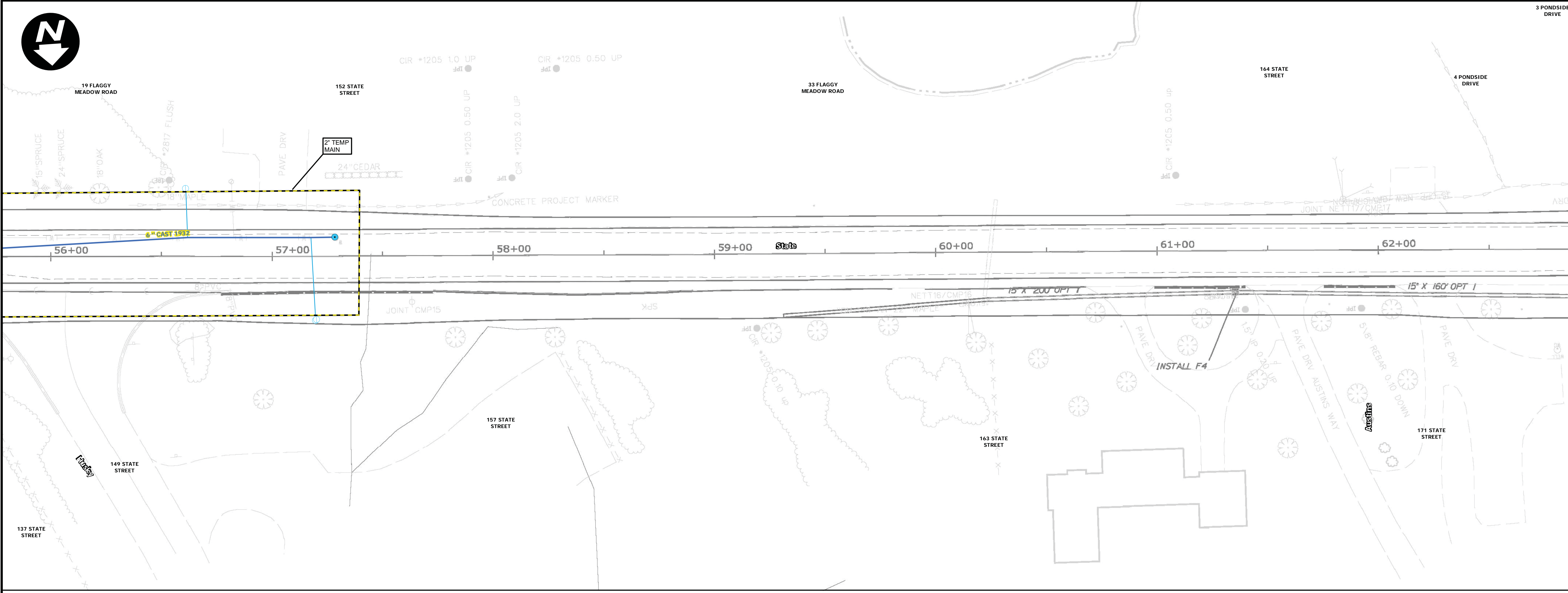
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TM

DATE:
06/21/2017

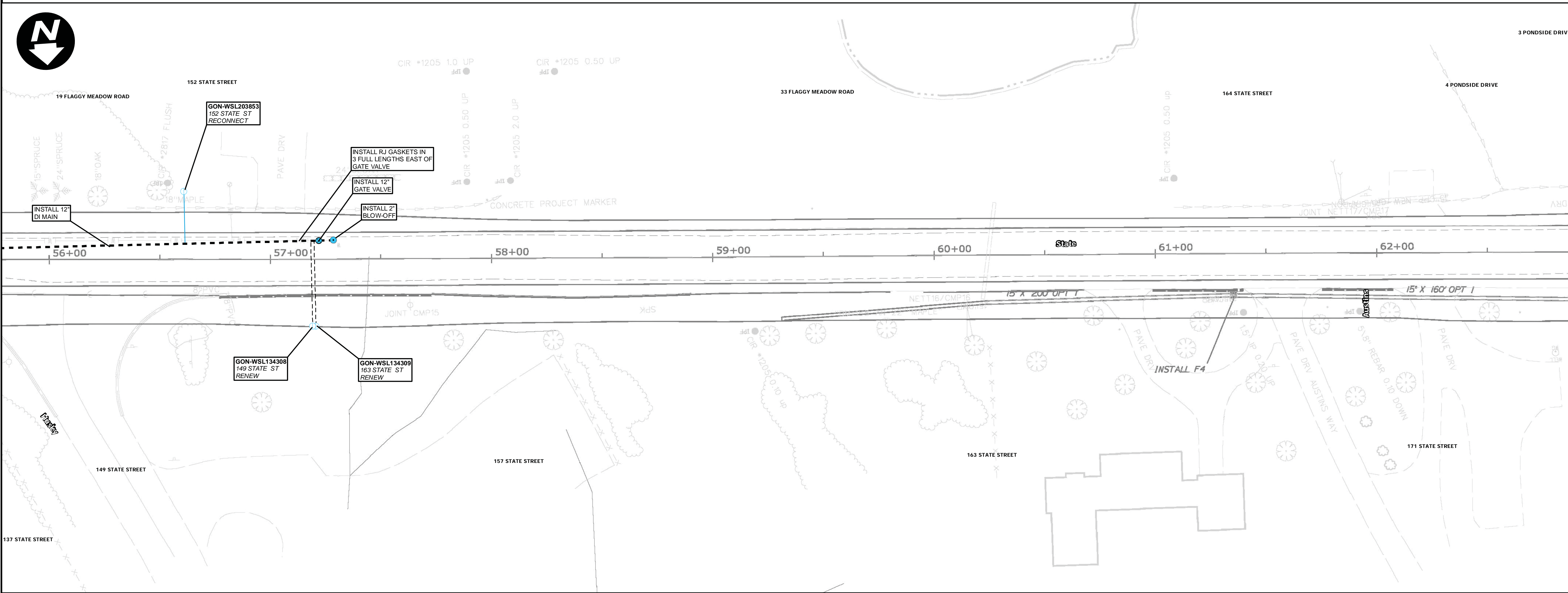
Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
(207) 774-5961 • WWW.PWD.ORG



SHEET:
W8 OF W11



EXISTING AND TEMPORARY MAINS
1" = 25'



PROPOSED MAINS
1" = 25'

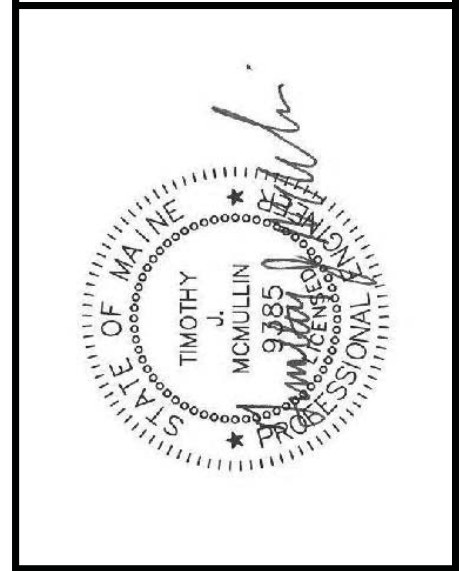
- NOTES**
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LEGEND

	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	TEMPORARY WATER MAIN
	PROPOSED/RENEWED SERVICE
	RECONNECT SERVICE

PROJECT:
284244

**STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT**

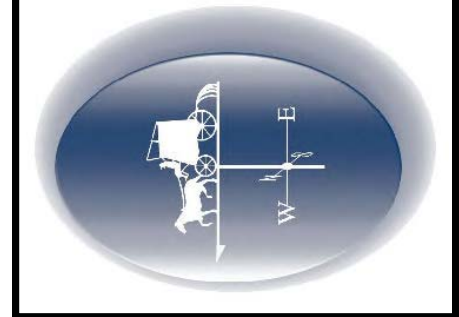


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BSJ

DESIGN BY:
TM

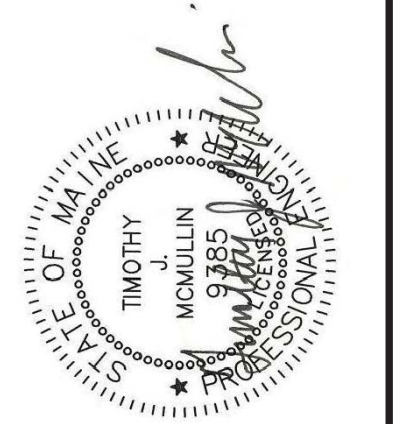
DATE:
06/21/2017

Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
(207) 774-5961 • WWW.PWD.ORG



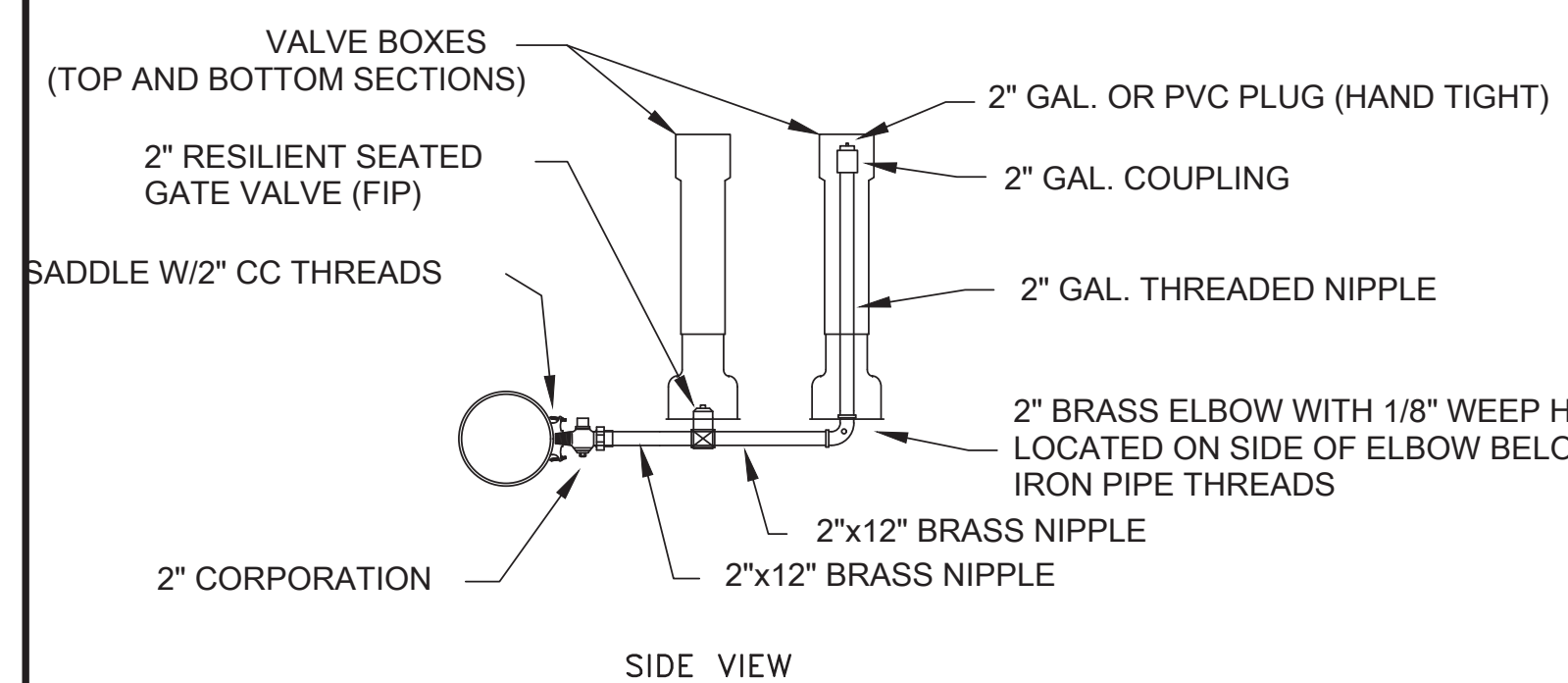
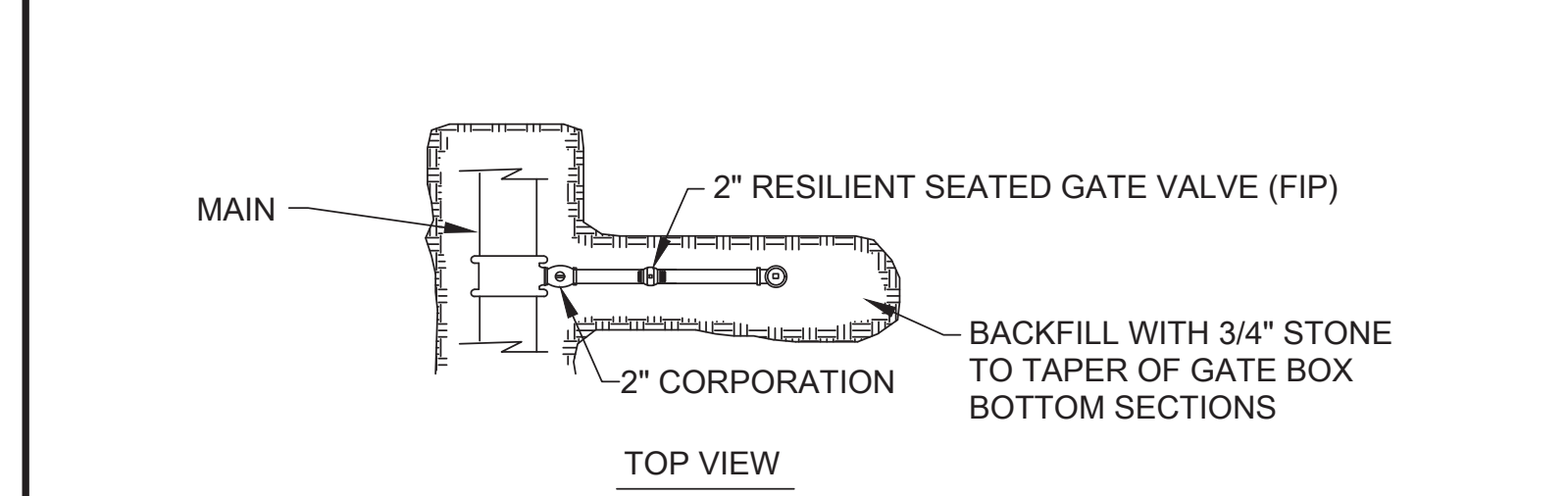
SHEET:
W9 OF W11

**MAIN STREET & STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT
STANDARD DETAILS**

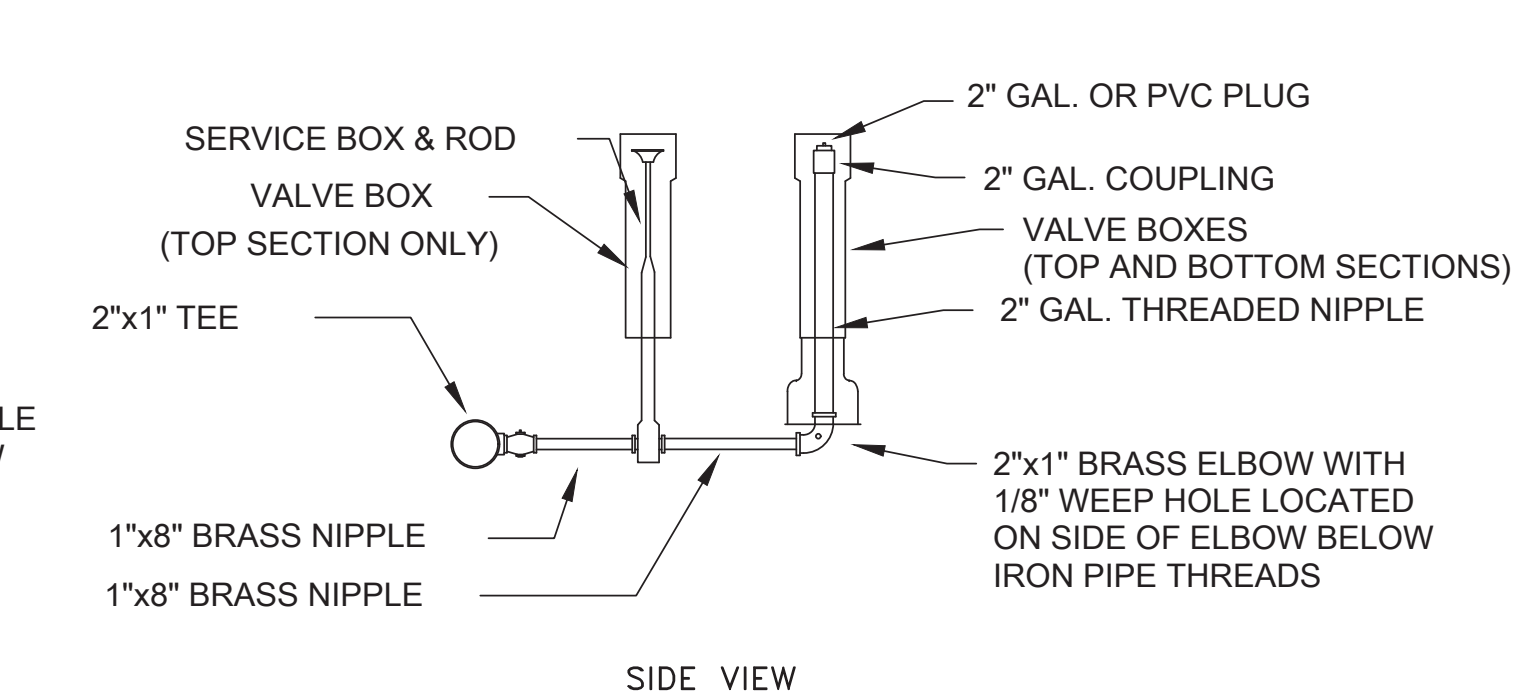
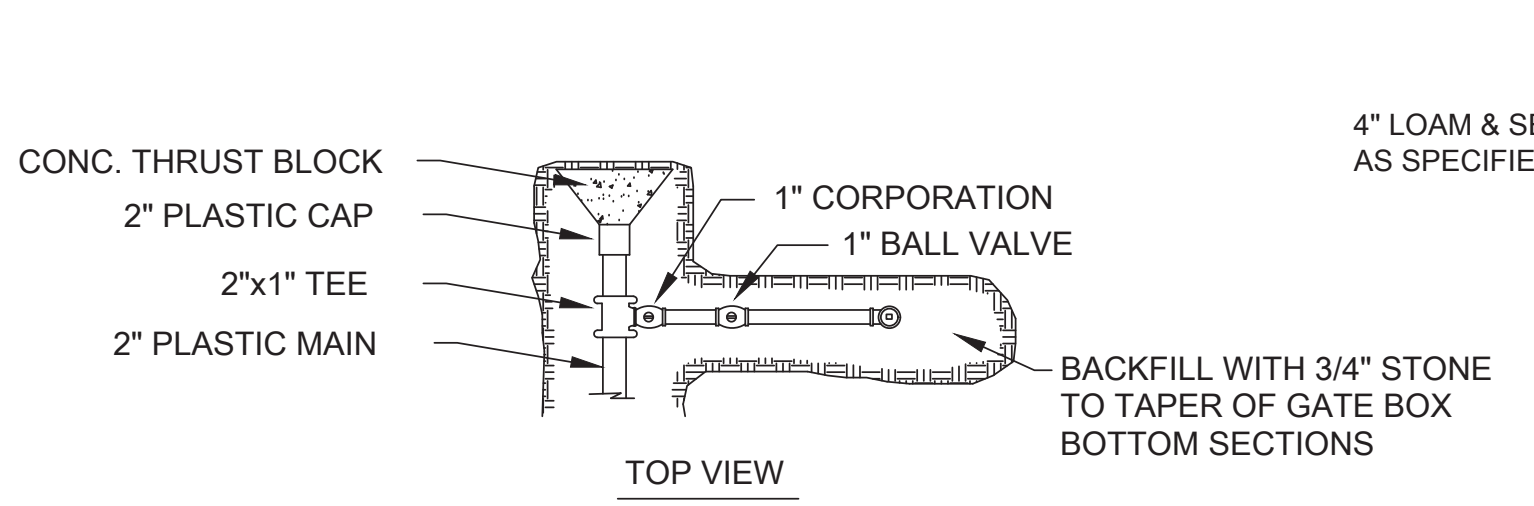


DRAWN BY: BSJ
CHECKED BY: TM
DATE: 02/05/2018

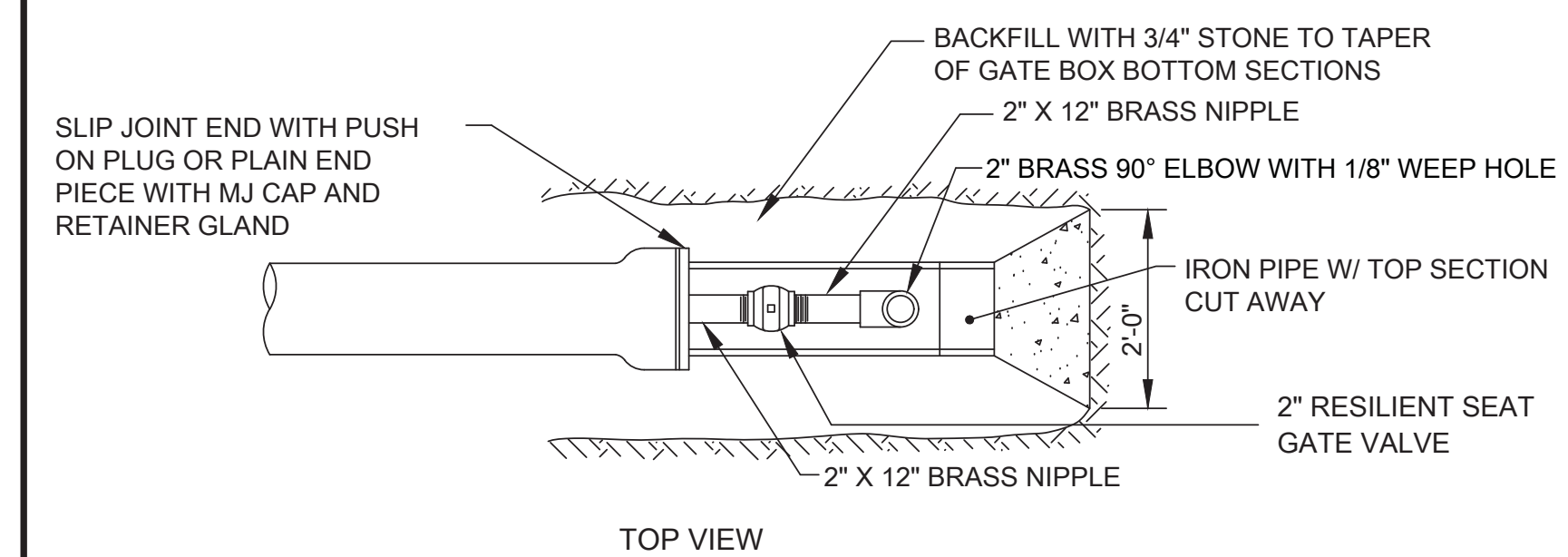
Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
(207) 774-5961 EXT. 3041 • MEANS@PWD.ORG



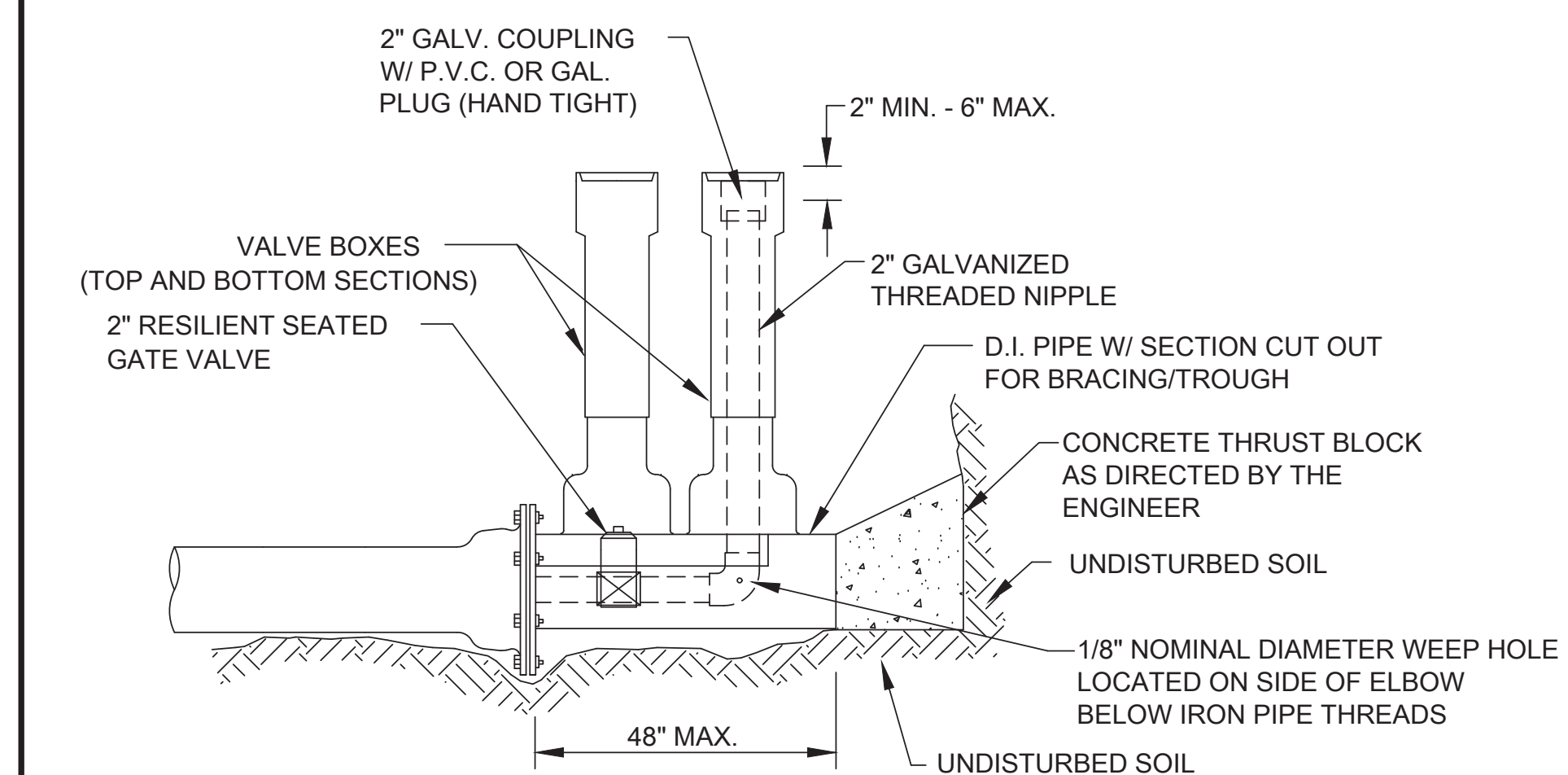
**SIDE-ARM BLOW-OFF
4" & LARGER MAINS**



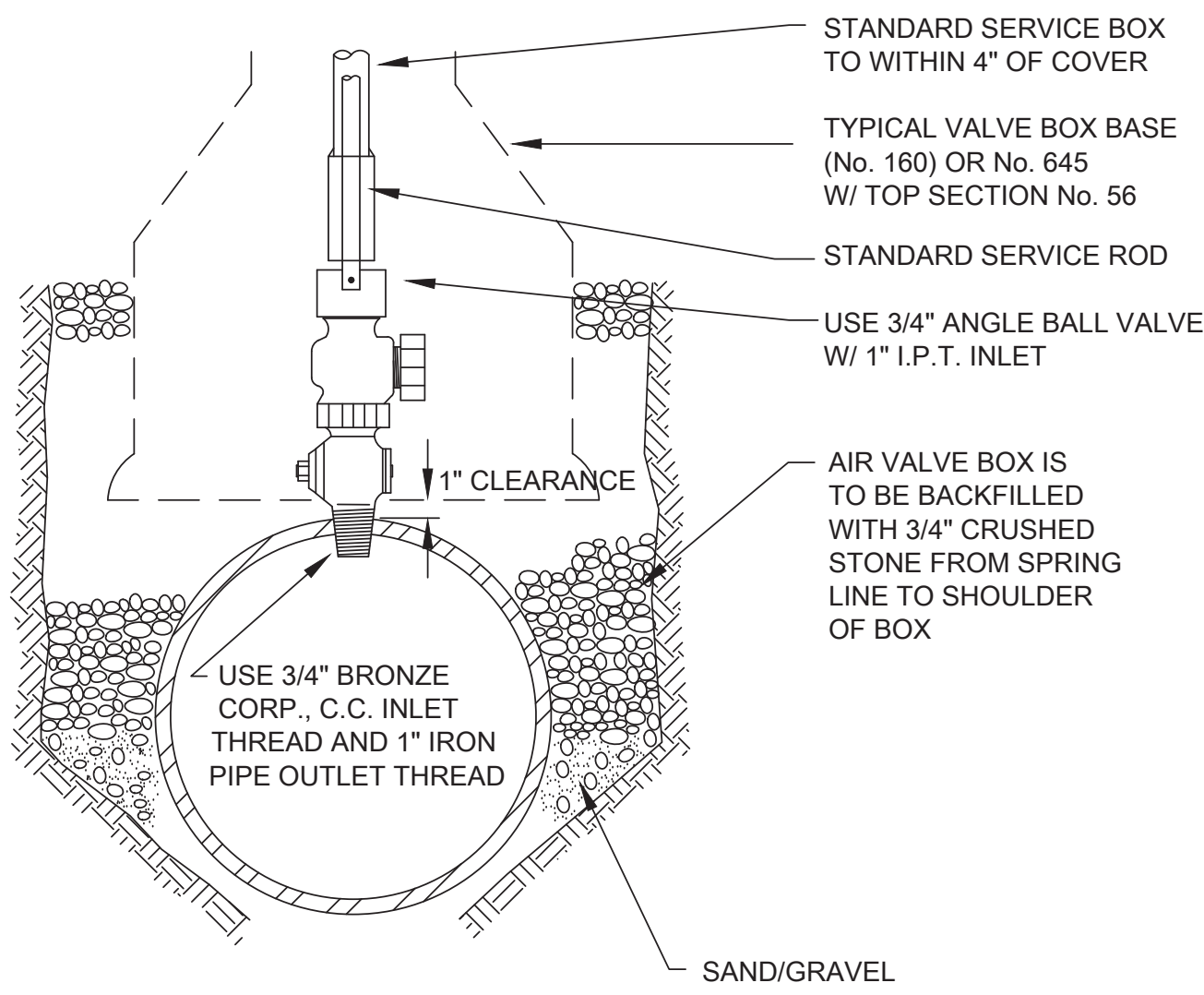
**SIDE-ARM BLOW-OFF
2" MAIN**



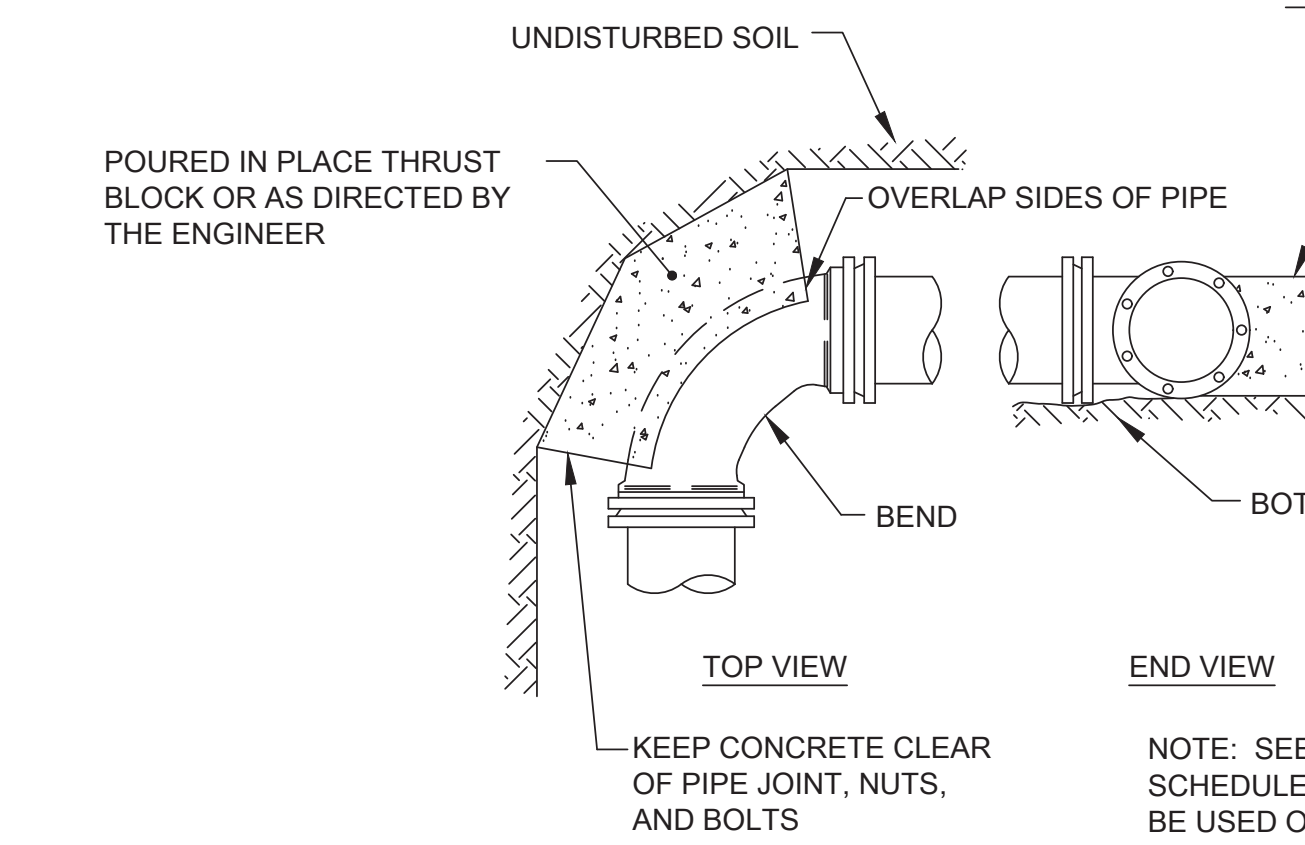
TOP VIEW



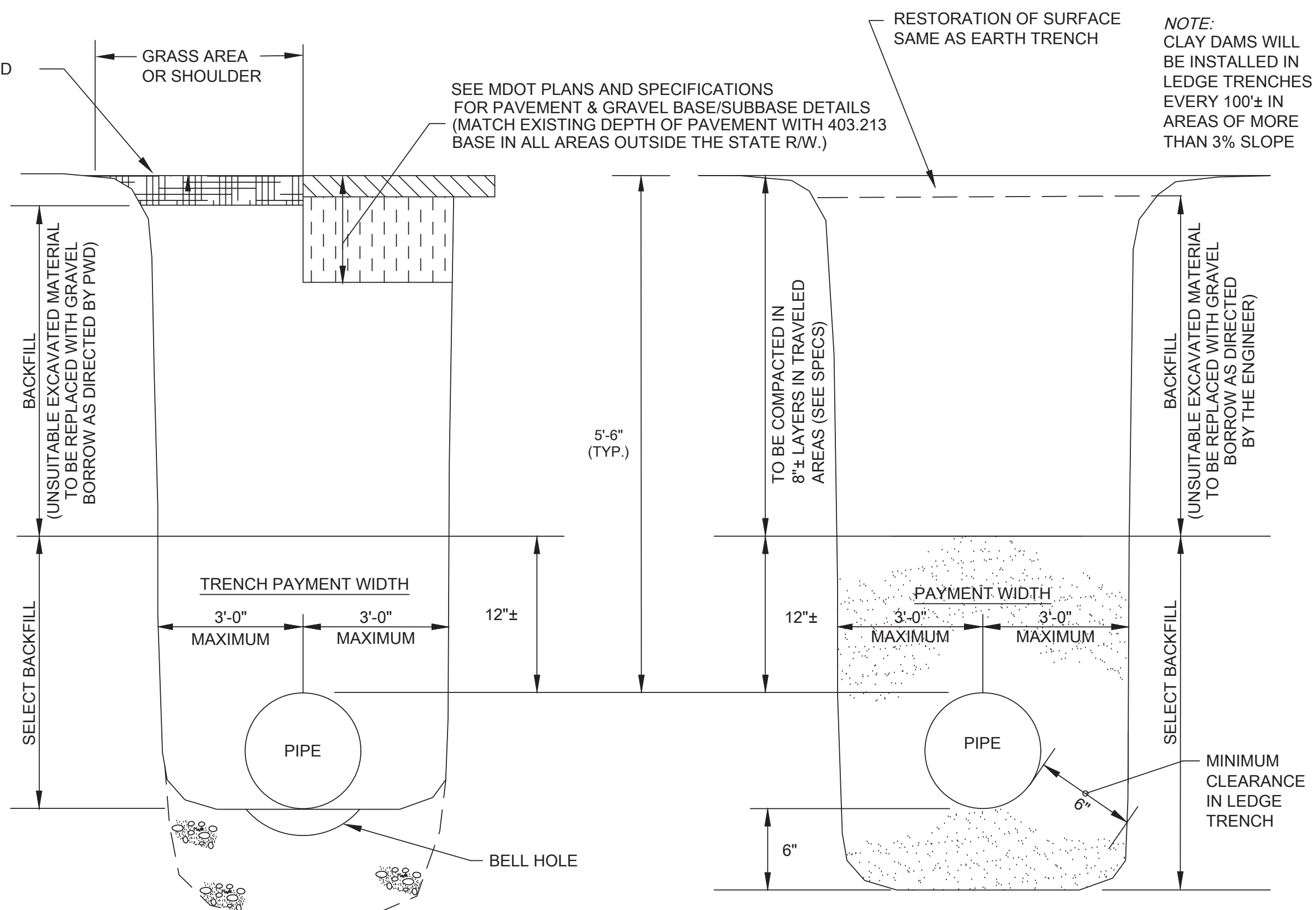
STANDARD 2" BLOW OFF



TYPICAL AIR VALVE (1")

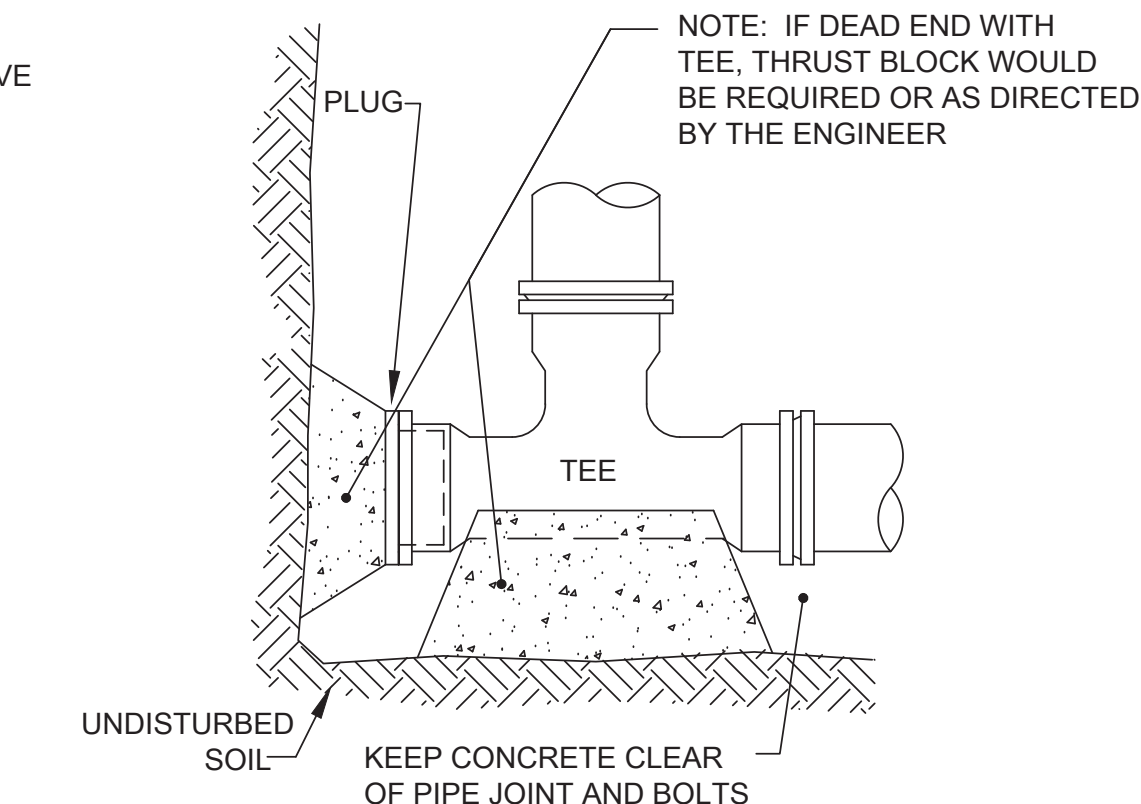


STANDARD BEND BLOCKING

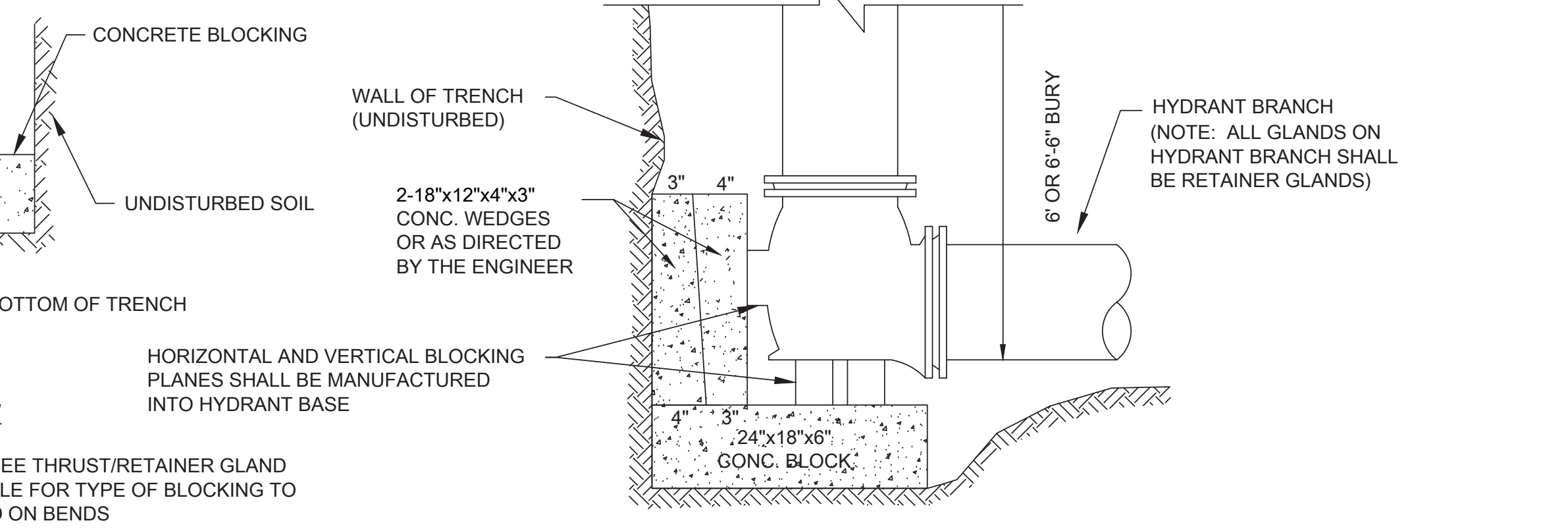


SECTION THRU EARTH TRENCH

SECTION THRU LEDGE TRENCH



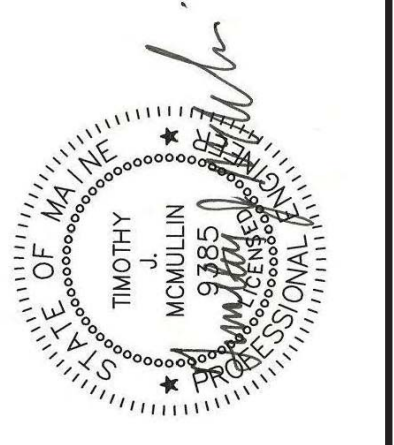
STANDARD TEE BLOCKING



**TYPICAL HYDRANT
INSTALLATION DETAIL**

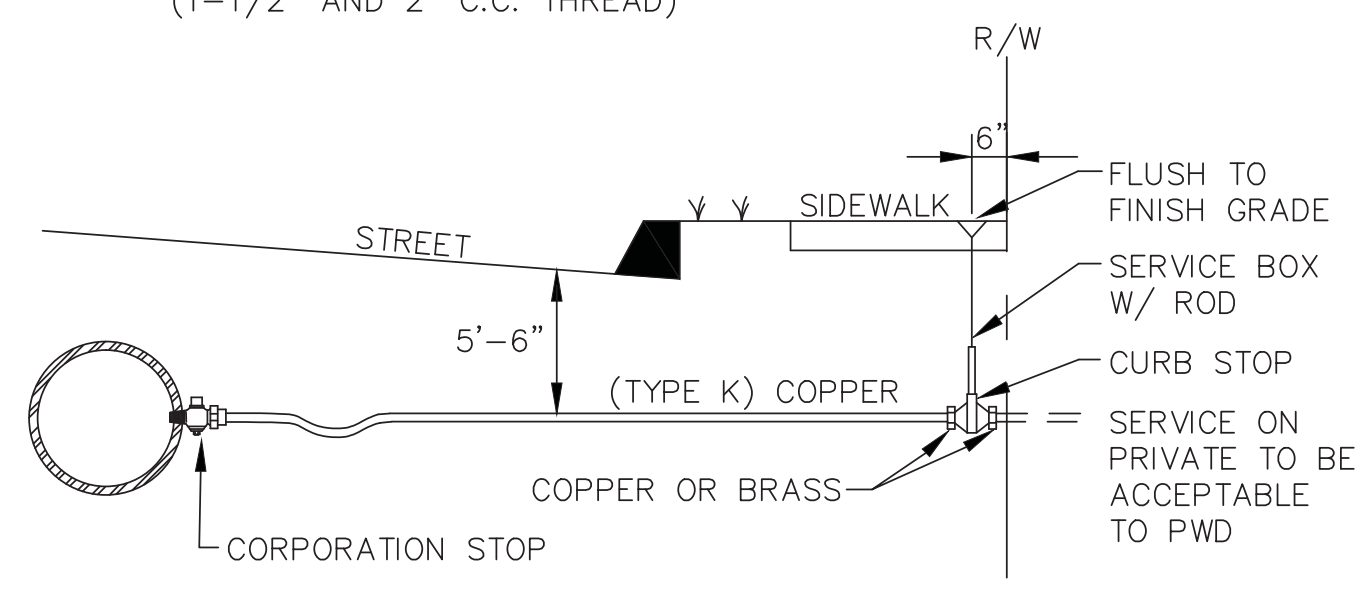
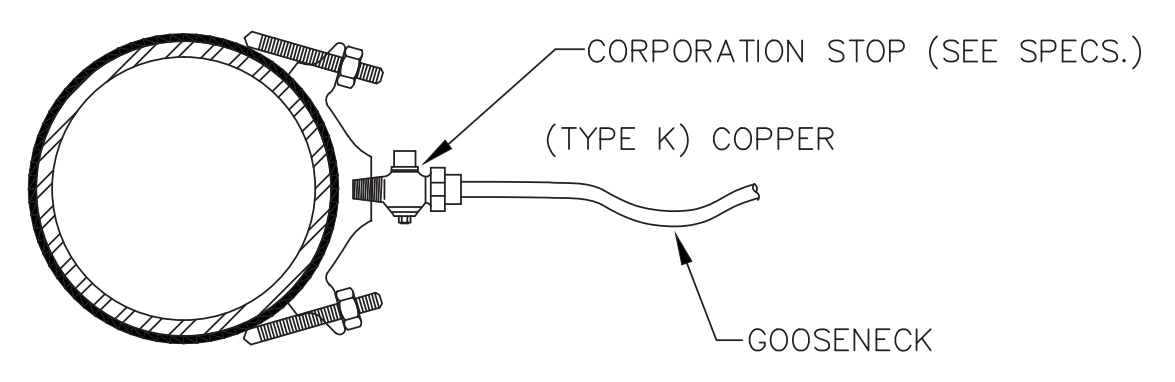
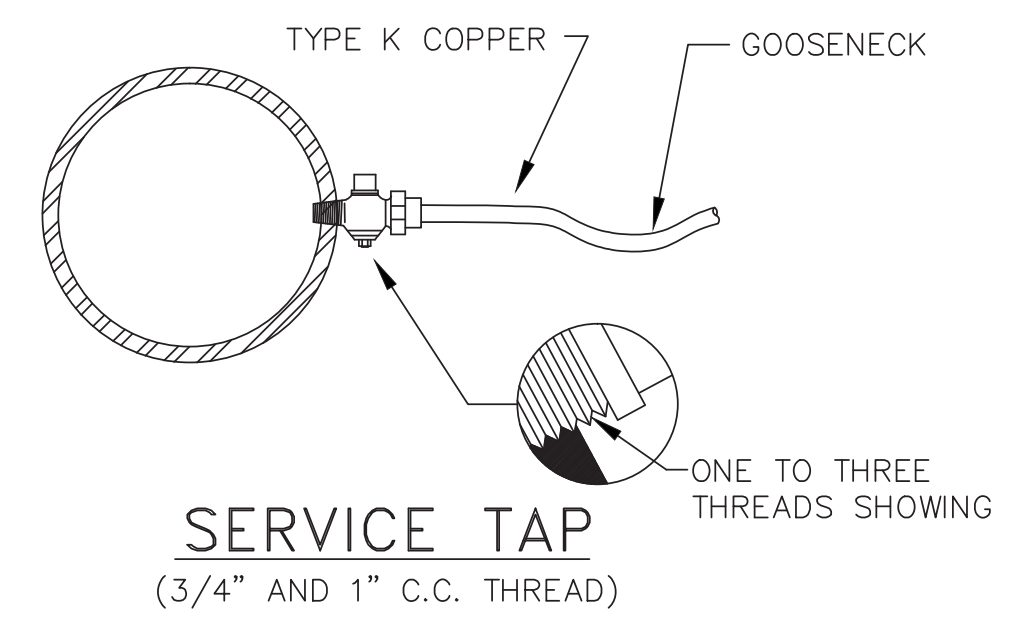
NOTE: SEE THRUST/RETAINER GLAND SCHEDULE FOR TYPE OF BLOCKING TO BE USED ON BENDS

**MAIN STREET & STATE STREET
GORHAM, MAINE
WATER MAIN REPLACEMENT
STANDARD DETAILS**

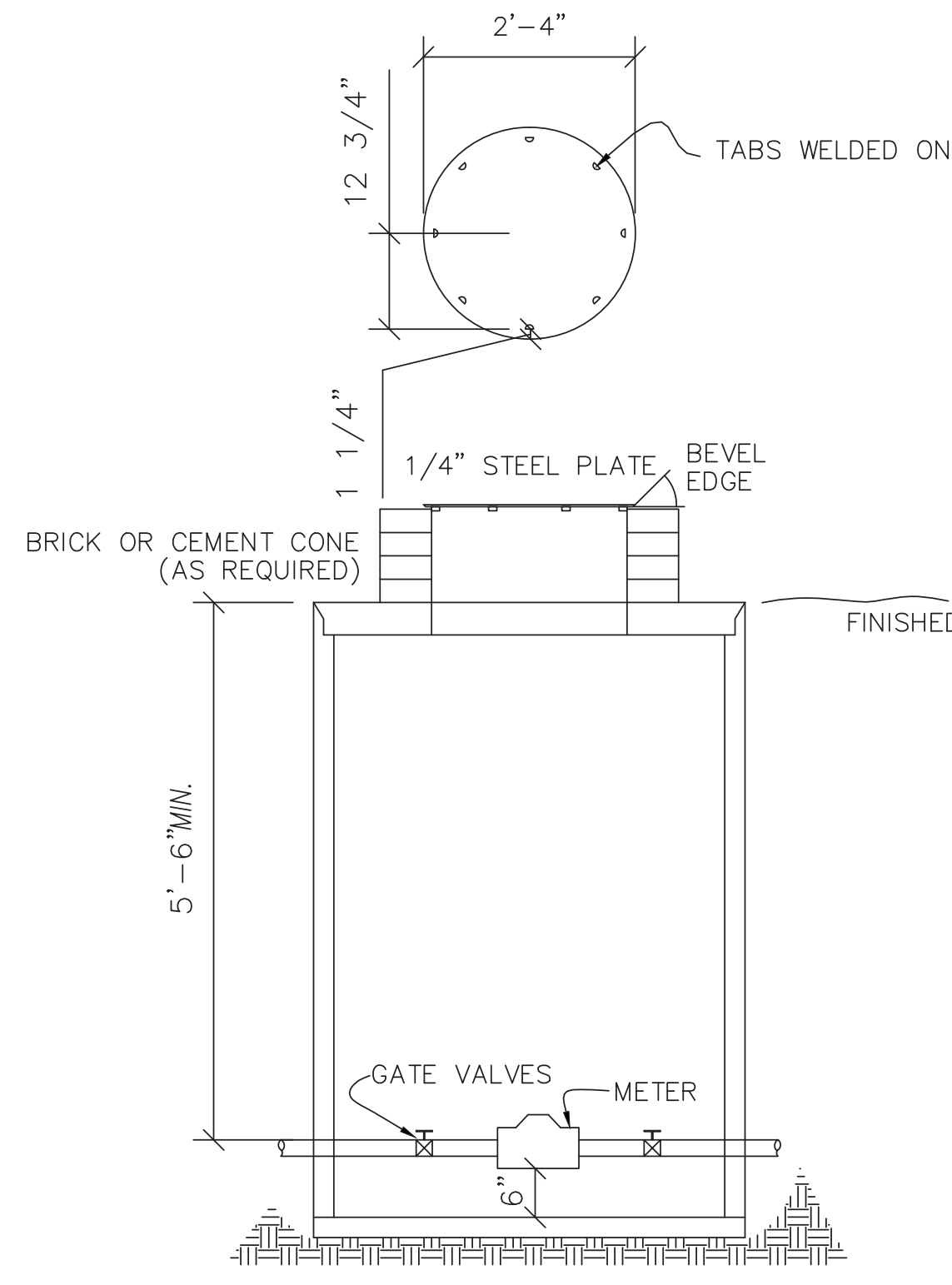
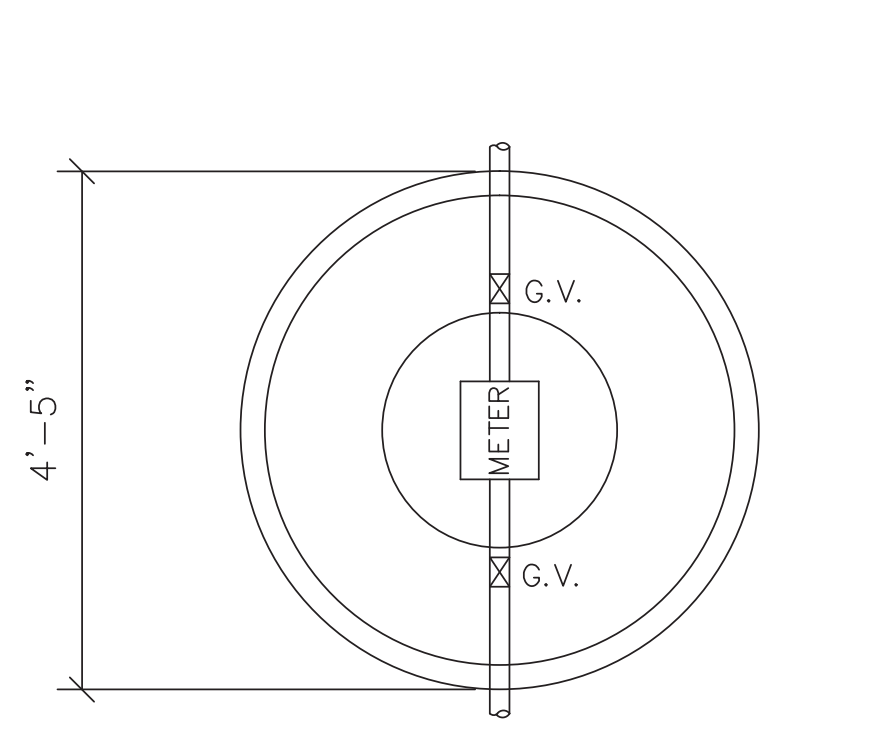


DRAWN BY: BSJ
CHECKED BY: TM
DATE: 06/21/2017

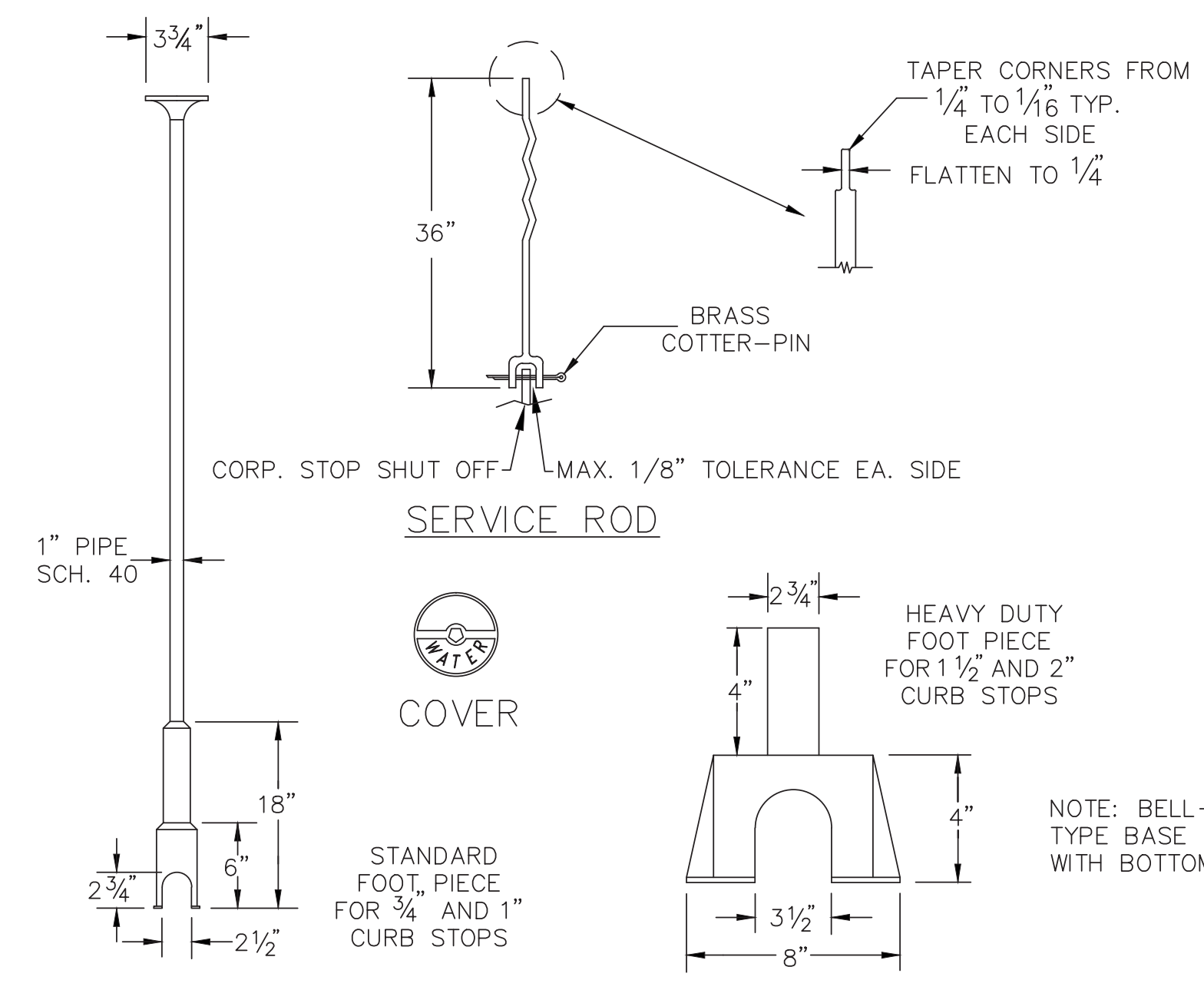
Portland Water District
ASSET MANAGEMENT AND PLANNING DEPARTMENT
225 DOUGLASS STREET, PORTLAND ME 04104
(207) 774-5961 EXT. 3041 • MEANS@PWD.ORG



TYPICAL SERVICE CONNECTION

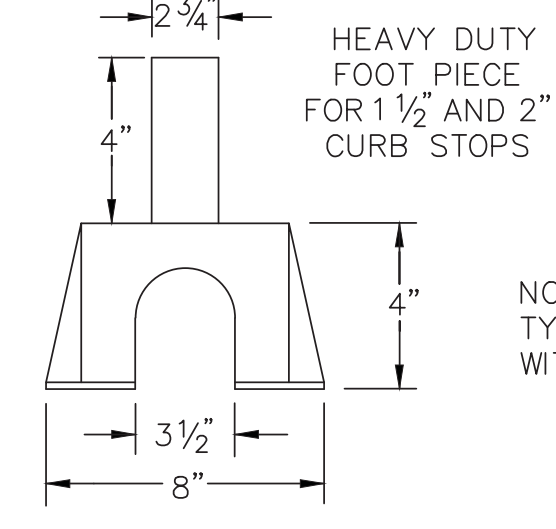


TYPICAL METER PIT



SERVICE BOX

NOTE : ANY EXTENSION OF SERVICE BOX REQUIRES:
1) 1" FEMALE IRON PIPE COUPLING
2) 1" THREADED PIPE
(THIS IS TO BE A NON-WELDED, TWO PIECE ARRANGEMENT. SLIP ON ADAPTERS ARE NOT PERMISSIBLE.)



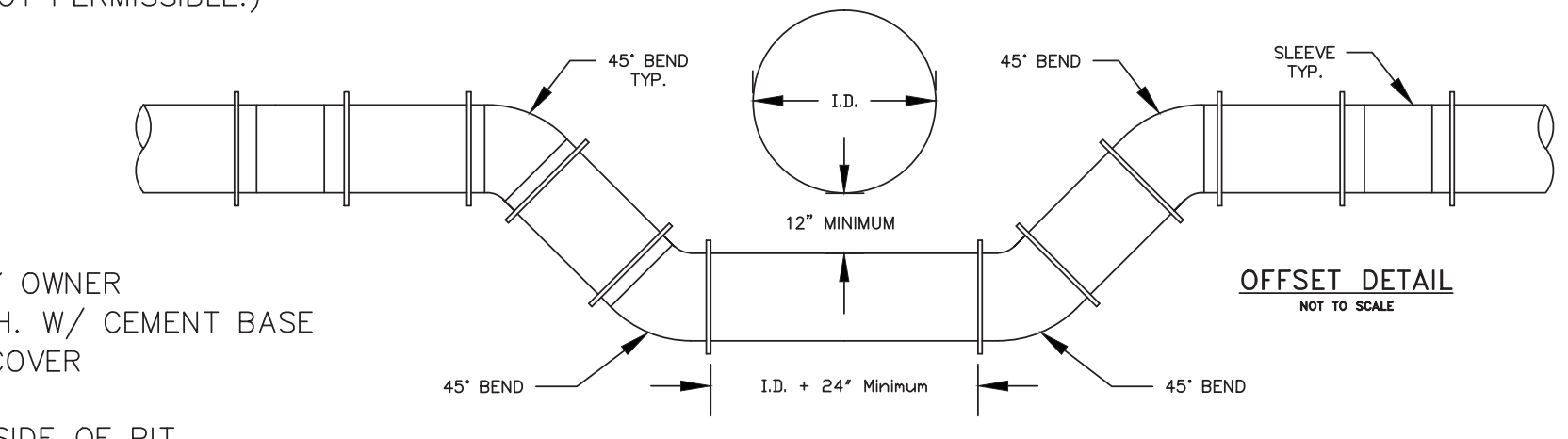
FOOT PIECE

5/8" TO 2" METERS

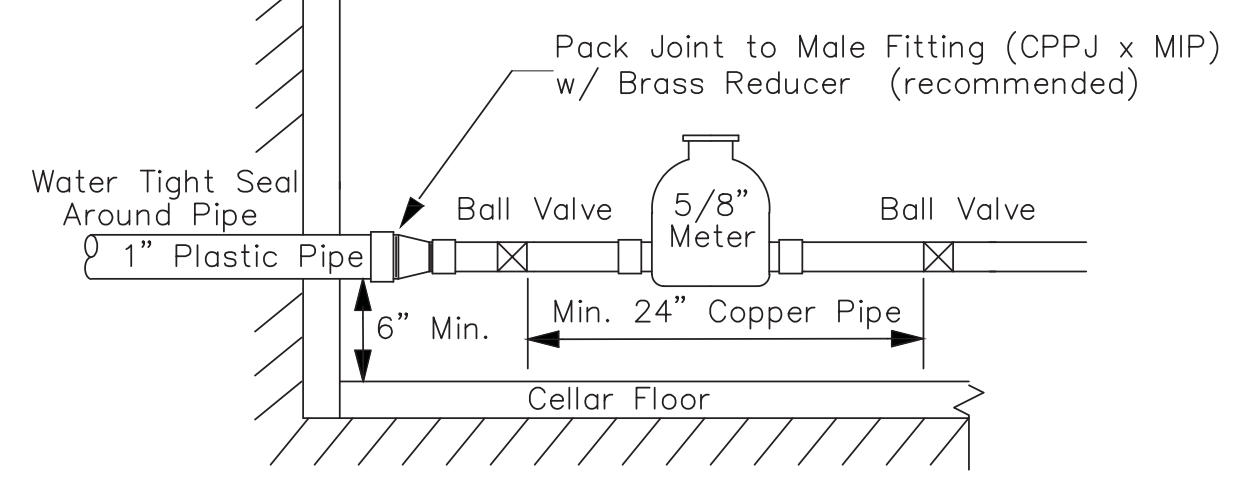
- METER BOX**
- 1) TO BE INSTALLED AND SUPPLIED BY OWNER
 - 2) MINIMUM 4'-0" DIAMETER CONC. M.H. W/ CEMENT BASE
 - 3) WATER METER TO HAVE 5'-6" OF COVER AND IS TO BE SUPPLIED BY P.W.D.
 - 4) OWNER IS TO SUPPLY 2 VALVES INSIDE OF PIT (MINIMUM SEPARATION OF 2'-0")
 - 5) COPPER PIPE REQUIRED THRU METER PIT

- COVER PLATE**
- 1) COVER MUST WEIGH LESS THAN 60 lbs.
 - 2) MINIMUM SIZE OF COVER WILL BE 28" DIAMETER.
 - 3) IF STEEL PLATE IS USED, TREAT WITH A COAT OF RUST INHIBITING PAINT.

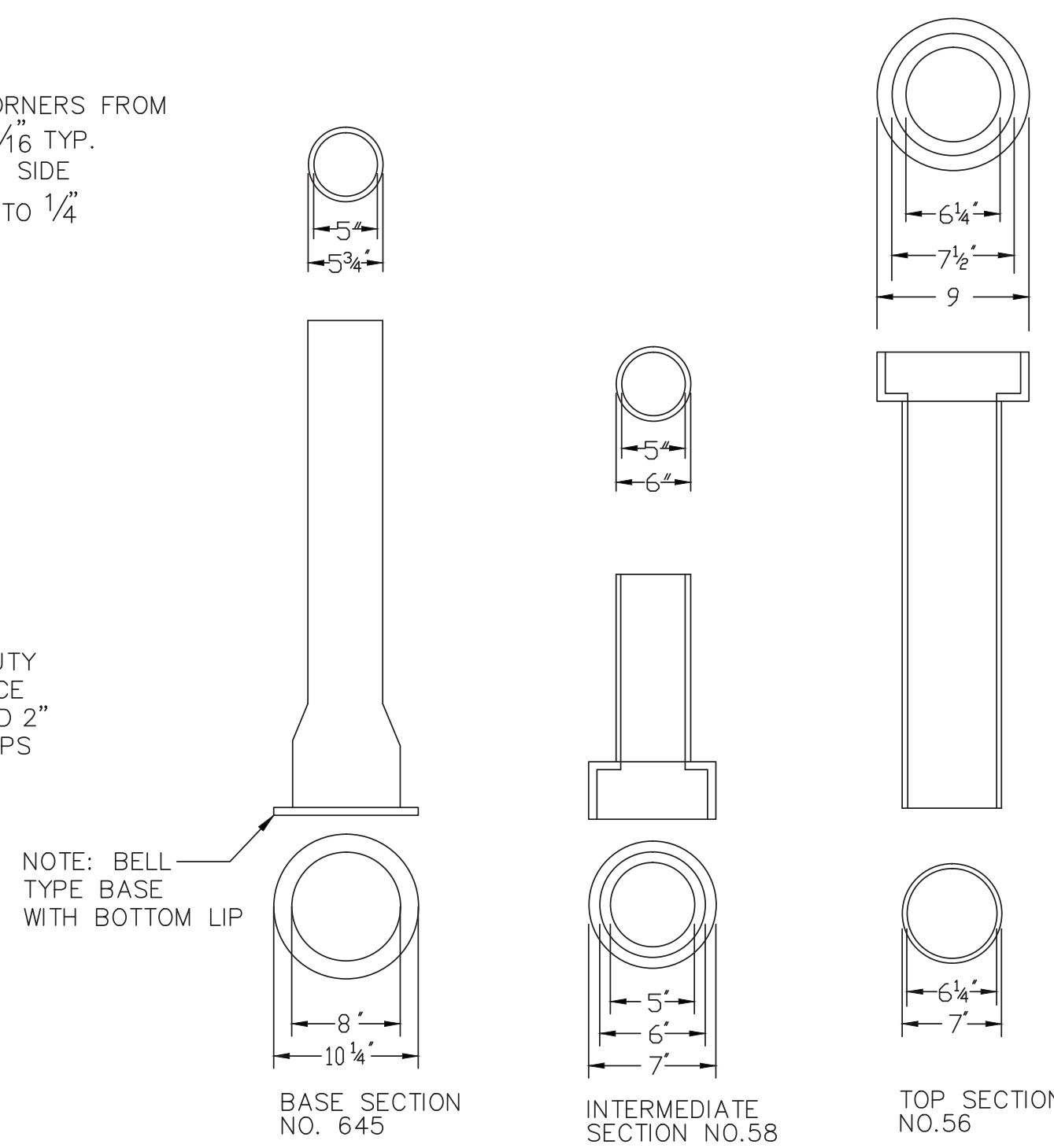
- NOTES**
- 1) THIS PIT IS TO BE PLACED ON PRIVATE PROPERTY NEAR THE STREET LINE.
 - 2) THIS TYPICAL PIT WAS NOT DESIGNED FOR ANY TRAFFIC LOAD
 - 3) THE PIT CAN BE ORDERED THRU OTHERS WITH SPECIAL DETAILS SUCH AS LARGER M.H. COVERS, ETC.
 - 4) THIS PIT WILL HOUSE UP TO TWO 5/8", 3/4", OR 1" METERS



- NOTES:**
- 1) Meter, Horn & Connections Installed by PWD
 - 2) Meter Will Be Read Electronically From Outside of Building. Contact PWD if Pre-Wiring is Required.
 - 3) Meter Must Not Be Permanently "Boxed" Without Sufficient Access & Room For Future Servicing (36" min. around Meter for Servicing).
 - 4) PWD to Supply Meter and Meter Horn. All Other Materials to be Supplied by Homeowner.
 - 5) Meter to be Installed Maximum 18" from Entrance.
 - 6) Only Authorized Personnel Shall Operate Service Curb Stop.

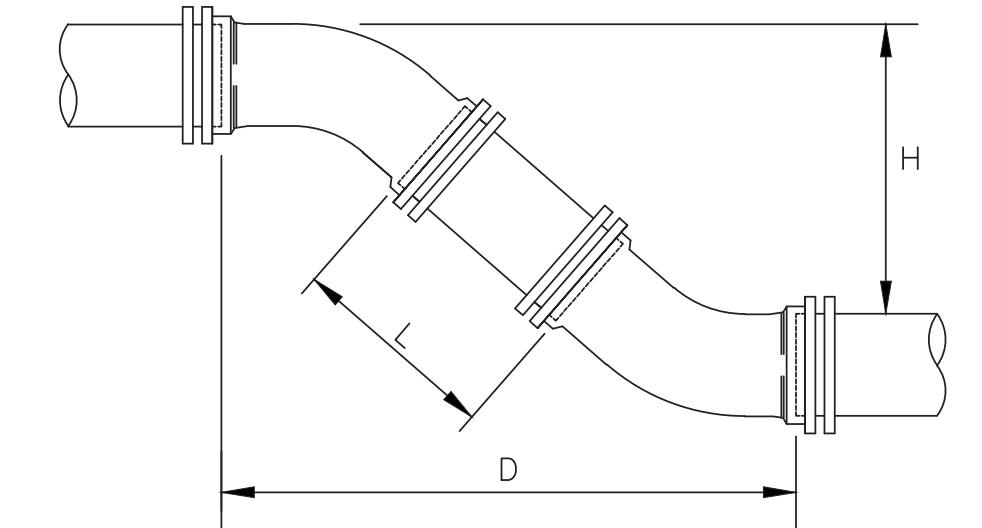


TYP. HORIZONTAL METER SET



VALVE BOX & COVER

(NUMBERS ARE FOR 5 1/4" BUFFALO VALVE BOXES)
(BASE SECTION MAY BE USED AS INTERMEDIATE SECTION)



H	6" PIPE		8" PIPE		12" PIPE	
	D	L	D	L	D	L
12"	1' 6-1/2"	0' 10-1/2"	1' 7-1/2"	0' 9-1/2"	1' 11-1/2"	0' 5-1/2"
13"	1' 7-1/2"	0' 11-7/8"	1' 8-1/2"	0' 10-7/8"	2' 0-1/2"	0' 6-7/8"
14"	1' 8-1/2"	1' 1-5/16"	1' 9-1/2"	1' 0-5/16"	2' 1-1/2"	0' 8-5/16"
15"	1' 9-1/2"	1' 2-11/16"	1' 10-1/2"	1' 1-11/16"	2' 2-1/2"	0' 9-11/16"
16"	1' 10-1/2"	1' 4-1/8"	1' 11-1/2"	1' 3-1/8"	2' 3-1/2"	0' 11-1/8"
17"	1' 11-1/2"	1' 5-9/16"	2' 0-1/2"	1' 4-9/16"	2' 4-1/2"	1' 0-9/16"
18"	2' 0-1/2"	1' 6-15/16"	2' 1-1/2"	1' 5-15/16"	2' 5-1/2"	1' 1-15/16"
19"	2' 1-1/2"	1' 8-3/8"	2' 2-1/2"	1' 7-3/8"	2' 6-1/2"	1' 3-3/8"
20"	2' 2-1/2"	1' 9-13/16"	2' 3-1/2"	1' 8-13/16"	2' 7-1/2"	1' 4-13/16"
21"	2' 3-1/2"	1' 11-3/16"	2' 4-1/2"	1' 10-3/16"	2' 8-1/2"	1' 6-3/16"
22"	2' 4-1/2"	2' 0-5/8"	2' 5-1/2"	1' 11-5/8"	2' 9-1/2"	1' 7-5/8"
23"	2' 5-1/2"	2' 2"	2' 6-1/2"	2' 1"	2' 10-1/2"	1' 9"
24"	2' 6-1/2"	2' 3-7/16"	2' 7-1/2"	2' 2-7/16"	2' 11-1/2"	1' 10-7/16"
25"	2' 7-1/2"	2' 4-7/8"	2' 8-1/2"	2' 3-7/8"	3' 0-1/2"	1' 11-7/8"
26"	2' 8-1/2"	2' 6-1/4"	2' 9-1/2"	2' 5-1/4"	3' 1-1/2"	2' 1-1/4"
27"	2' 9-1/2"	2' 7-11/16"	2' 10-1/2"	2' 6-11/16"	3' 2-1/2"	2' 2-11/16"
28"	2' 10-1/2"	2' 9-1/8"	2' 11-1/2"	2' 8-1/8"	3' 3-1/2"	2' 4-1/8"
29"	2' 11-1/2"	2' 10-1/2"	3' 0-1/2"	2' 9-1/2"	3' 4-1/2"	2' 5-1/2"
30"	3' 0-1/2"	2' 11-15/16"	3' 1-1/2"	2' 10-15/16"	3' 5-1/2"	2' 6-15/16"
31"	3' 1-1/2"	3' 1-5/16"	3' 2-1/2"	3' 0-5/16"	3' 6-1/2"	2' 8-5/16"
32"	3' 2-1/2"	3' 2-3/4"	3' 3-1/2"	3' 1-3/4"	3' 7-1/2"	2' 9-3/4"
33"	3' 3-1/2"	3' 4-3/16"	3' 4-1/2"	3' 3-3/16"	3' 8-1/2"	2' 11-3/16"
34"	3' 4-1/2"	3' 5-9/16"	3' 5-1/2"	3' 4-9/16"	3' 9-1/2"	3' 0-9/16"
35"	3' 5-1/2"	3' 7"	3' 6-1/2"	3' 6"	3' 10-1/2"	3' 2"
36"	3' 6-1/2"	3' 8-7/16"	3' 7-1/2"	3' 7-7/16"	3' 11-1/2"	3' 3-7/16"
37"	3' 7-1/2"	3' 9-13/16"	3' 8-1/2"	3' 8-13/16"	4' 0-1/2"	3' 4-13/16"
38"	3' 8-1/2"	3' 11-1/4"	3' 9-1/2"	3' 10-1/4"	4' 1-1/2"	3' 6-1/4"
39"	3' 9-1/2"	4' 0-11/16"	3' 10-1/2"	3' 11-11/16"	4' 2-1/2"	3' 7-11/16"
40"	3' 10-1/2"	4' 2-1/16"	3' 11-1/2"	4' 1-1/16"	4' 3-1/2"	3' 9-1/16"
41"	3' 11-1/2"	4' 3-1/2"	4' 0-1/2"	4' 2-1/2"	4' 4-1/2"	3' 10-1/2"
42"	4' 0-1/2"	4' 4-7/8"	4' 1-1/2"	4' 3-7/8"	4' 5-1/2"	3' 11-7/8"
43"	4' 1-1/2"	4' 5-5/16"	4' 2-1/2"	4' 5-5/16"	4' 6-1/2"	4' 1-5/16"
44"	4' 2-1/2"	4' 7-3/4"	4' 3-1/2"	4' 6-3/4"	4' 7-1/2"	4' 2-3/4"
45"	4' 3-1/2"	4' 9-1/8"	4' 4-1/2"	4' 8-1/8"	4' 8-1/2"	4' 4-1/8"
46"	4' 4-1/2"	4' 10-9/16"	4' 5-1/2"	4' 9-9/16"	4' 9-1/2"	4' 5-9/16"
47"	4' 5-1/2"	4' 11-15/16"	4' 6-1/2"	4' 10-15/16"	4' 10-1/2"	4' 6-15/16"
48"	4' 6-1/2"	4' 1-3/8"	4' 7-1/2"	4' 0-3/8"	4' 11-1/2"	4' 8-3/8"
49"	4' 7-1/2"	5' 2-13/16"	4' 8-1/2"	5' 1-13/16"	5' 0-1/2"	4' 9-13/16"
50"	4' 8-1/2"	5' 4-3/16"	4' 9-1/2"	5' 3-3/16"	5' 1-1/2"	4' 11-3/16"
51"	4' 9-1/2"	5' 5-5/8"	4' 10-1/2"	5' 4-5/8"	5' 2-1/2"	5' 0-5/8"
52"	4' 10-1/2"	5' 7-1/8"	4' 11-1/2"	5' 6-1/8"	5' 3-1/2"	5' 2-1/8"
53"	4' 11-1/2"	5' 8-7/16"	5' 0-1/2"	5' 7-7/16"	5' 4-1/2"	5' 3-7/16"
54"	5' 0-1/2"	5' 9-7/8"	5' 1-1/2"	5' 8-7/8"	5' 5-1/2"	5' 4-7/8"
55"	5' 1-1/2"	5' 11-5/16"	5' 2-1/2"	5' 10-5/16"	5' 6-1/2"	5' 6-5/16"

TYPICAL MAIN OFFSET