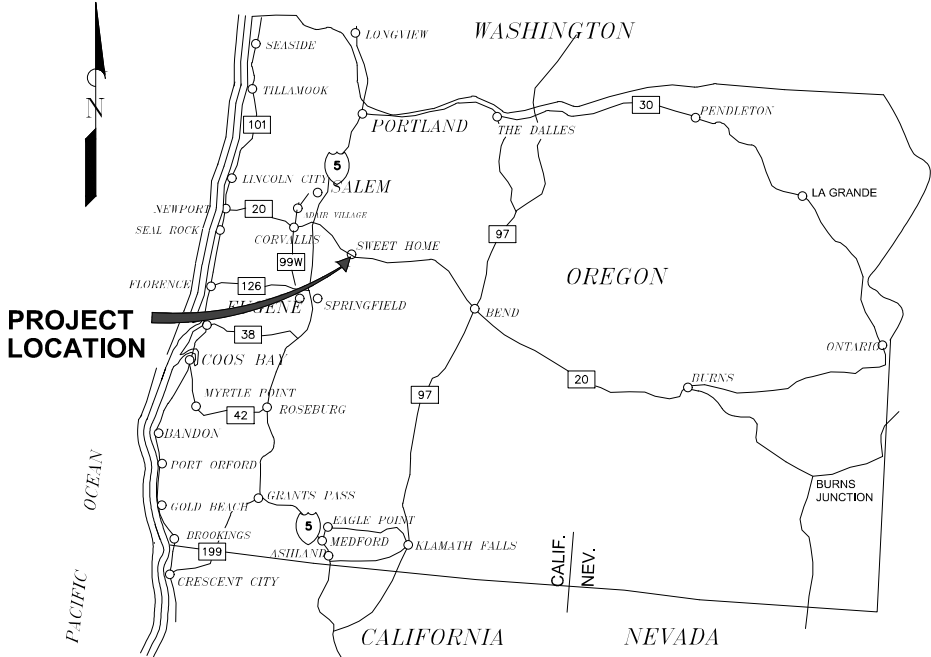


CITY OF SWEET HOME
2022 WATERMAIN REPLACEMENT PROJECT
LINN COUNTY, OR

PROJECT NO. 2817-05
APRIL 2022

PRELIMINARY



LOCATION MAP



VICINITY MAP
NOT TO SCALE



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www.civilwest.com

200 FERRY ST SW
ALBANY, OR 97321

REV.	DATE	DESCRIPTION	BY
DESIGNED BY:	ERM	DRAWN BY:	FT
CHECKED BY:	MDW	PROJECT NO:	2817-05
CITY OF SWEET HOME LINN COUNTY OR.			
2022 WATERMAIN REPLACEMENT PROJECT			
COVER SHEET			
Date:	G1		
Sheet No:	APRIL 2022		

GENERAL NOTES

1. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN A COPY OF THE RULES BY CALLING THE CENTER.

NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987.
STAT. AUTH.: ORS 757.542 THROUGH ORS 757.562 AND ORS 757.993.
2. THE CONTRACTOR SHALL CONTACT 'ONE CALL' FOR UTILITY LOCATES PRIOR TO EXCAVATION. (1-800-332-2344)
3. THE EXISTING UTILITY CROSSINGS OF THE PIPELINES ARE SHOWN ACCORDING TO AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL THE UTILITY CROSSINGS ALONG THE LENGTH OF THE PIPELINES AS SPECIFIED. NO GUARANTEE IS MADE THAT ALL OF THE EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING HIS OPERATIONS.
4. OVERHEAD ELECTRICAL DISTRIBUTION SYSTEMS MAY NOT BE SPECIFICALLY INDICATED ON THE DRAWINGS BUT DO EXIST ALONG THE PIPELINE ROUTES.
5. EXISTING WATER METER BOXES AND VALVES MAY NOT BE SPECIFICALLY INDICATED ON THE DRAWINGS BUT DO EXIST ALONG THE PIPELINE ROUTES. CONTRACTOR SHALL LOCATE PRIOR TO THE START OF CONSTRUCTION.
6. THE LOCATION AND DEPTH SHOWN ON THESE DRAWINGS FOR THE EXISTING WATERLINES ARE APPROXIMATE ONLY AND BASED ON AS BUILT DRAWINGS, VALVE LOCATIONS AND OTHER INFORMATION. THERE ARE NO TRACER WIRES FOR LOCATING THE MAJORITY OF EXISTING WATERLINES AND EXISTING WATERLINES MAY BE IN CLOSE PROXIMITY TO NEW WATERLINE ROUTES.
7. CONTRACTOR SHALL POTHOLE AND LOCATE EXISTING WATERLINES PRIOR TO PLACEMENT OF NEW WATERLINES. EXISTING WATERLINES SHALL REMAIN IN SERVICE AND BE PROTECTED IN PLACE UNTIL COMPLETION OF NEW WATERLINES. CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN CONTINUED SERVICE TO CUSTOMERS UNTIL COMPLETION OF NEW WATERLINE.
8. AFTER COMPLETION OF NEW WATERLINES AND ALL TESTING AND CONNECTIONS HAVE BEEN MADE. DESIGNATED PORTIONS OF THE EXISTING WATERLINES ARE TO BE ABANDONED IN PLACE. REMOVE TEMPORARY CONNECTIONS, EXISTING VALVES, COVERS AND PROVIDE END CAPS OR PLUGS AS REQUIRED FOR ABANDONMENT.
9. THE PIPELINE PROFILES HAVE BEEN MARKED TO INDICATE THE REQUIRED BACKFILL CLASSES (A, B, & E) SEE TECHNICAL SPECIFICATION FOR SPECIFIC BACKFILL MATERIAL REQUIREMENTS.
10. WHEN NO RECORD WAS AVAILABLE TO INDICATE THE ELEVATION OF AN EXISTING UTILITY A MINIMUM COVER OF 30-INCHES WAS ASSUMED. THE CONTRACTOR SHALL EXERCISE CAUTION WHILE EXCAVATING NEAR THESE ESTIMATED UTILITY LOCATIONS WHICH ARE INDICATED ON THE PROFILE DRAWINGS.
11. CONTRACTOR SHALL INSTALL NEW WATERLINES WITH A MINIMUM CLEARANCE OF 18-INCHES AT ALL CROSSINGS WITH SANITARY SEWER LINES AND/OR STORM DRAIN LINES, UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER. WHERE NEW WATERLINES CROSS EXISTING UNDERGROUND TELEPHONE, ELECTRICAL, AND/OR GAS LINES, A MINIMUM CLEARANCE OF 6-INCHES SHALL BE UTILIZED, UNLESS OTHERWISE NOTED.
12. ALL MATERIALS IN CONTACT WITH WATER SHALL BE NSF 61 APPROVED.
13. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT DESIGN SPECIFICATIONS AND DRAWINGS. THESE DRAWINGS SHALL BE COORDINATED AND USED IN CONJUNCTION WITH THE TECHNICAL SPECIFICATIONS AND APPROVED SUBMITTALS. CONSTRUCTION PERMITS AS REQUIRED FROM LINCOLN COUNTY ROAD DEPARTMENT TO WORK WITHIN THE RIGHT-OF-WAY SHALL BE OBTAINED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
14. PROPERTY AND RIGHT OF WAY LINES SHOWN IN THIS PLAN SET ARE APPROXIMATE AND BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL OBTAIN TEMPORARY CONSTRUCTION ACCESS OR PERMISSION FROM PRIVATE LAND OWNERS PRIOR TO ENTERING PRIVATE PROPERTY.
15. PERMITS ASSOCIATED WITH THE TRENCH DE-WATERING SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE EXISTING WATERLINES AND SURROUNDING UTILITIES TO DETERMINE THEIR EXACT LOCATION AND DEPTH. POTHOLE EXPLORATION SHALL OCCUR A MINIMUM OF SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORK IN ANY AREA.

SHEET INDEX

SHEET INDEX

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C2	9TH AVE IMPROVEMENTS OVERVIEW
C3	9TH AVE PLAN STA 0+00 TO 4+50
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C5	9TH AVE PLAN STA 8+75 TO 13+50
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	SCHEDULE B - 8TH & ALDER
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D6	BLOW-OFF ASSEMBLY DETAIL
D7	ASPHALT CONCRETE PAVEMENT DETAIL
D8	SIDEWALK WITH LANDSCAPE STRIP DETAIL
D9	CURB AND GUTTER DETAIL
D10	CATCH BASIN DETAIL

GENERAL ABBREVIATIONS

AC	PAVEMENT	HDD	HORIZONTAL DIRECTIONAL DRILLING	SD	STORM DRAIN
BC	BEGIN CURVE	HDPE	HIGH DENSITY POLYETHYLENE PIPE	SE	SPOT ELEVATION
BFV	BUTTERFLY VALVE	HPC	HYPOCHLORITE	SPW	SPILLWAY
BLDG	BUILDING	HS	HARVESTED SLUDGE	SS	SANITARY SEWER
BM	BENCH MARK	HSG	HIGH PRESSURE SLUDGE GAS	STA	STATION
BOW	BACK OF WALK			SW	SIDEWALK
		IE	INVERT ELEVATION		
		IP	IRON PIPE	TBC	TOP BACK OF CURB
CB	CATCH BASIN			TD	TANK DRAIN
CPLG	COUPLING	LIP	LIP OF GUTTER	TG	TOP OF GRATE
CTR	CENTER	LT	LEFT	TOE	TOP OF SLOPE
CW	CITY WATER (POTABLE)			TOP	TOP OF BANK
CWN	CITY WATER (NONPOTABLE)	MH	MANHOLE	TOC	TOP OF CURB
		MJ	MECHANICAL JOINT	TRANS.	TRANSITION
D	DRAIN			TYP	TYPICAL
DI	DUCTILE IRON	NG	NATURAL GAS	TW	TOP OF WALL
EC	END CURVE	OF	OVERFLOW	UNO	UNLESS NOTED OTHERWISE
EL	ELEVATION				
EOC	EDGE OF CONCRETE	PED	PEDESTAL	V	VENT
EOG	EDGE OF GRAVEL	PRC	POINT OF REVERSE CURVATURE	VAC	VACUUM
EOP	EDGE OF PAVEMENT	PVC	POLY VINYL CHLORIDE PIPE	VC	VENT (CHEMICAL)
EX	EXISTING	PVI	POINT OF VERTICAL INTERSECTION		
				WM	WATER METER
FH	FIRE HYDRANT	ROW	RIGHT OF WAY	WV	WATER VALVE
FL	FLOWLINE	RS	RAW SEWAGE		
FLG	FLANGE	RT	RIGHT		
FM	FORCE MAIN	RW	RAW WATER		
		RWR	RECLAIMED WATER		
GV	GATE VALVE				

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Date		Sheet No.		CITY OF SWEET HOME LINN COUNTY, OR.		REV.		DATE		DESCRIPTION		BY					
				2022 WATERMAIN REPLACEMENT PROJECT		DESIGNED BY:		ERM		DRAWN BY:		FT		CHECKED BY:		MDW	
						PROJECT NO:		2817-95									
				GENERAL NOTES													

EXISTING FEATURE LEGEND

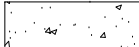
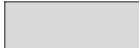
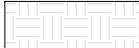
SYMBOL LEGEND

SANITARY SEWER MANHOLE		MAIL BOX	
STORM DRAIN MANHOLE		AIR RELEASE VALVE	
CATCH BASIN		BLOW OFF VALVE	
WATER VALVE		PROFILE SERVICE LATERAL CROSSING	
WATER METER		PROFILE TELEPHONE LINE CROSSING	
FIRE HYDRANT		PROFILE ELECTRICAL LINE CROSSING	
CLEANOUT		PROFILE WATERLINE CROSSING	
POWER POLE		PROFILE SANITARY SEWER CROSSING	
GUY ANCHOR		PROFILE STORM DRAIN CROSSING	
POWER PEDESTAL		TREE/SHRUB	
TELEPHONE PEDESTAL		STREET SIGN	
SURVEY MARKER			

LINETYPE LEGEND

WATER LINE	— W — W — W —
STORM DRAIN	— SD — SD — SD —
SANITARY SEWER	— SS — SS — SS —
ELECTRICAL	— E — E — E —
OVER HEAD LINE	— OH —
TELEPHONE LINE	— TEL —
GAS LINE	— GS —
TREELINE	
EDGE OF PAVEMENT	— — — — —
RIGHT OF WAY	— - - - -
CONTOURS	— — — — —
	230

HATCH LEGEND

CONCRETE	
PAVEMENT	
GRANULAR MATERIALS SUCH AS CRUSHED ROCK OR GRAVEL	
NATURAL GROUND	
WETLANDS	
BUILDING	

NEW FEATURE LEGEND

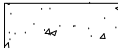
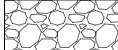
SYMBOL LEGEND

SANITARY SEWER MANHOLE		TEE/CROSS FITTING	
STORM DRAIN MANHOLE		ELBOW FITTING	
CATCH BASIN		REDUCER FITTING	
WATER VALVE		MECHANICAL JOINT ADAPTER	
WATER METER		AIR RELEASE VALVE	
FIRE HYDRANT		BLOW OFF VALVE	
CLEANOUT		MAILBOX	

LINETYPE LEGEND

WATER LINE	 W  W  W 
STORM DRAIN	 SD  SD  SD 
SANITARY SEWER	 SS  SS  SS 
ELECTRICAL	 E  E  E 
OVER HEAD LINE	 OH 
TELEPHONE LINE	 TEL 
GAS LINE	 GS 
CONTOURS	 230

HATCH LEGEND

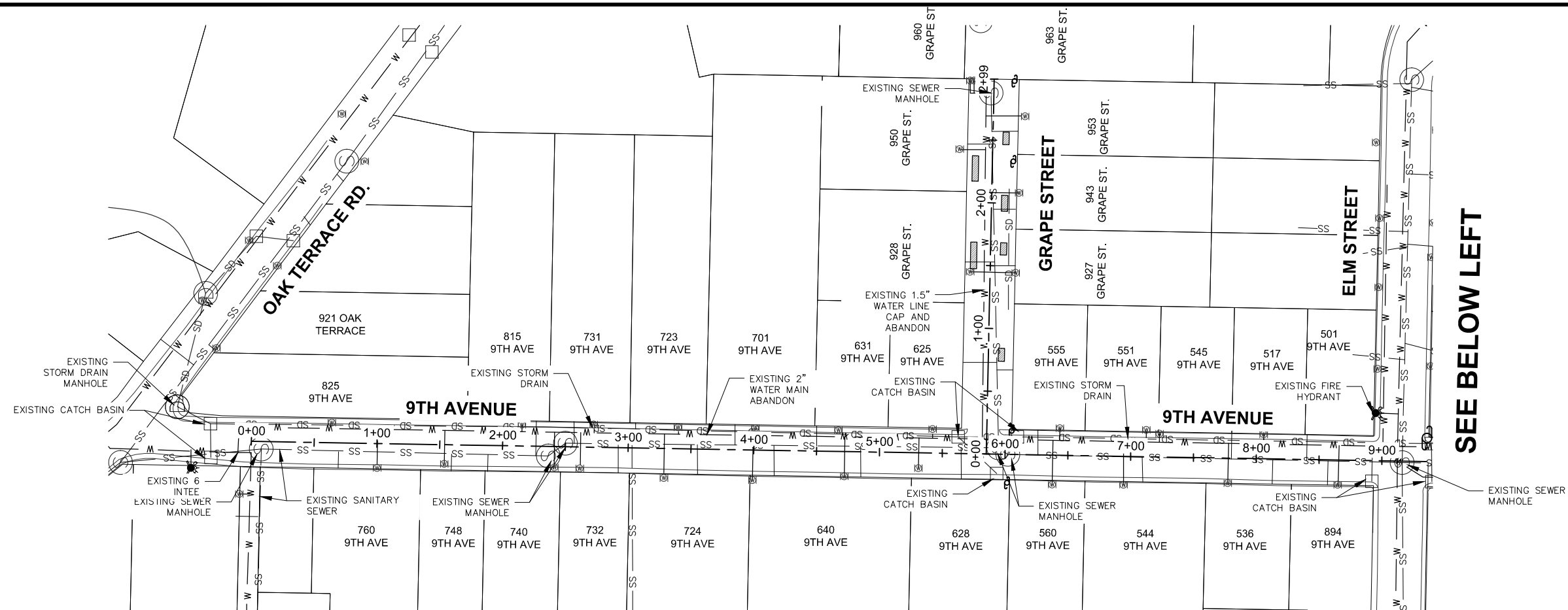
CONCRETE	
PAVEMENT	
GRANULAR MATERIALS SUCH AS CRUSHED ROCK OR GRAVEL	
DRIVEWAY	
ADDITIVE ALTERNATE AC OVERLAY	
ADDITIVE ALTERNATE DRIVEWAY	

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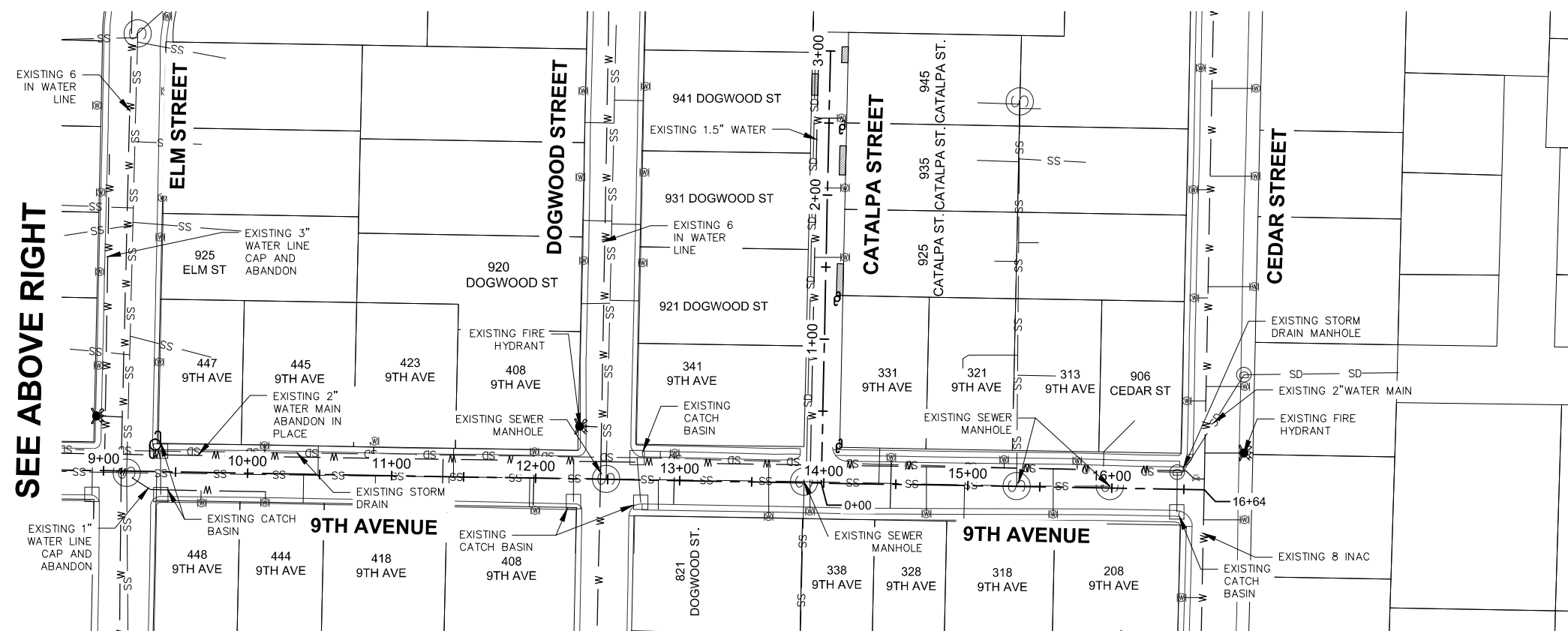
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CITY OF SWEET HOME LINN COUNTY OR.		2022 WATERMAIN REPLACEMENT PROJECT	
LEGEND		PROJECT NO. 2817-05	
REV.	DATE	DESCRIPTION	BY
DESIGNED BY:	ERM	DRAWN BY:	FT
CHECKED BY:	MDW		



1
C1

9TH AVE EXISTING CONDITIONS

SCALE: 1" = 100'



2
C1

9TH AVE EXISTING CONDITIONS

SCALE: 1" = 100'



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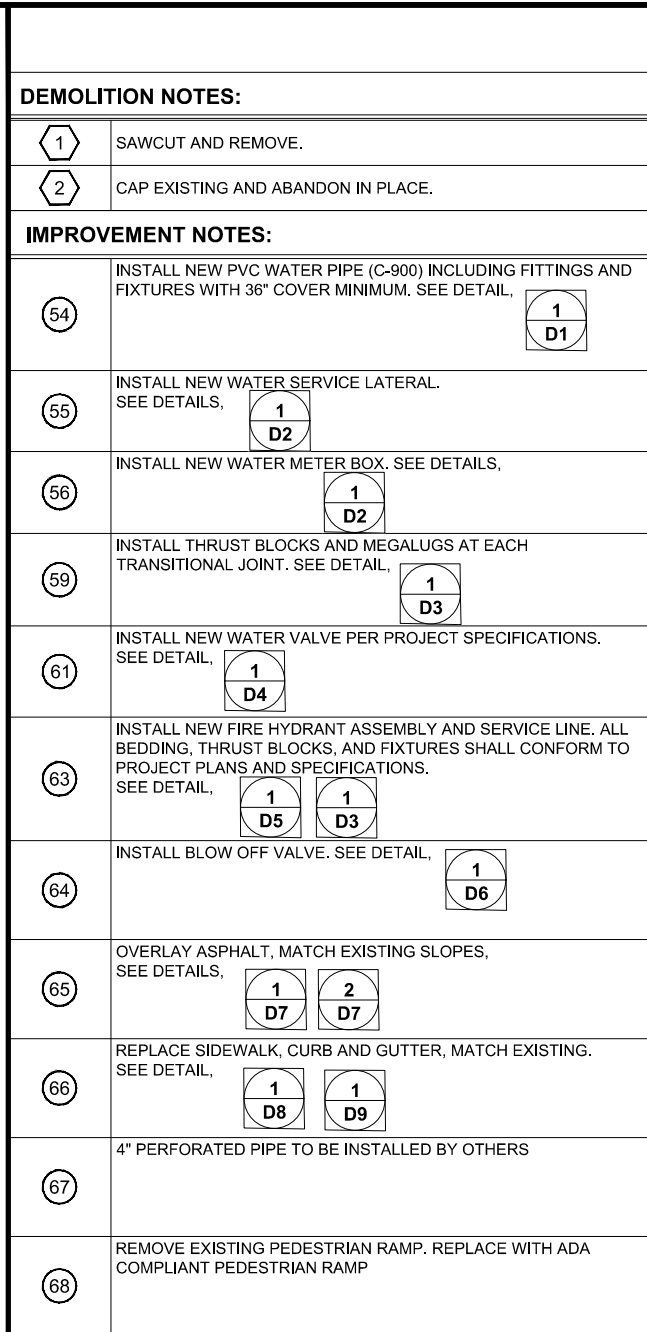
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LINN COUNTY, OR

2022 WATERMAIN REPLACEMENT PROGRAM

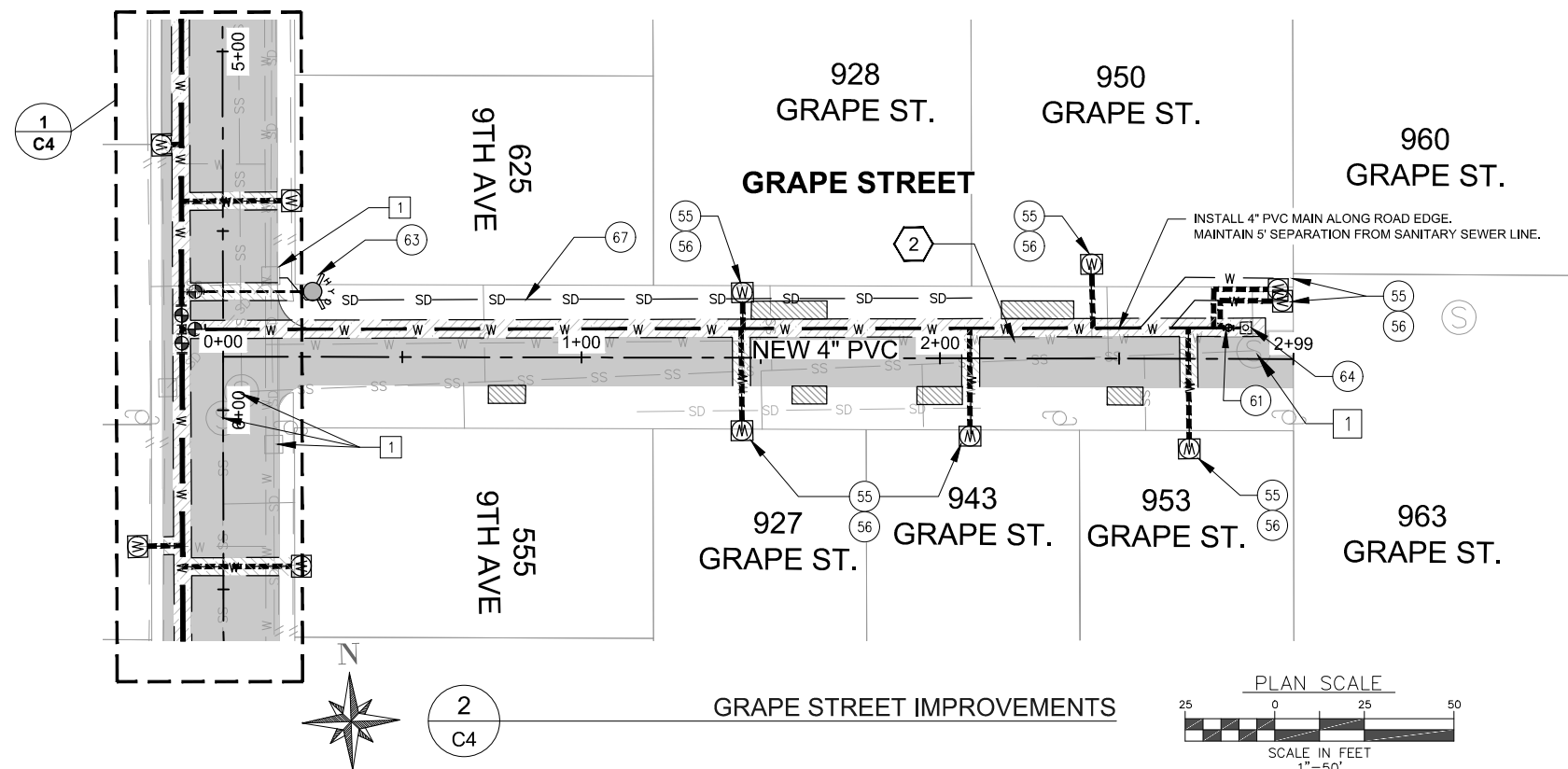
9TH AVE EXISTING CONDITIONS

C1

APRIL 2022



- | | | | | | | | | | |
|-------------------------------|--|---|--|--|--|--|--|--|--|
| Date _____
Sheet No. _____ | | <div style="font-size: 2em; font-weight: bold; margin: 0;">C3</div> <div style="font-weight: bold; margin-top: 5px;">APRIL 2022</div> | | <div style="margin-bottom: 10px;">CITY OF SWEET HOME
LINN COUNTY, OR</div> <div style="margin-bottom: 10px;">2022 WATERMAIN REPLACEMENT PROGRAM</div> <div>9TH AVE PLAN STA 0+00 TO 4+50</div> | | <div style="margin-bottom: 10px;">REV.</div> <div style="margin-bottom: 10px;">DATE</div> <div style="margin-bottom: 10px;">DESCRIPTION</div> <div style="margin-bottom: 10px;">BY</div> | | | |
| | | | | | | DESIGNED BY: ERM DRAWN BY: FT CHECKED BY: MDW
PROJECT NO: 2817-05 | | | |
| | | | | | |  | | | |
| | | | | | | Civil West
Engineering Services, Inc. | | | |
| | | | | | | 200 FERRY ST SW
ALBANY, OR 97321
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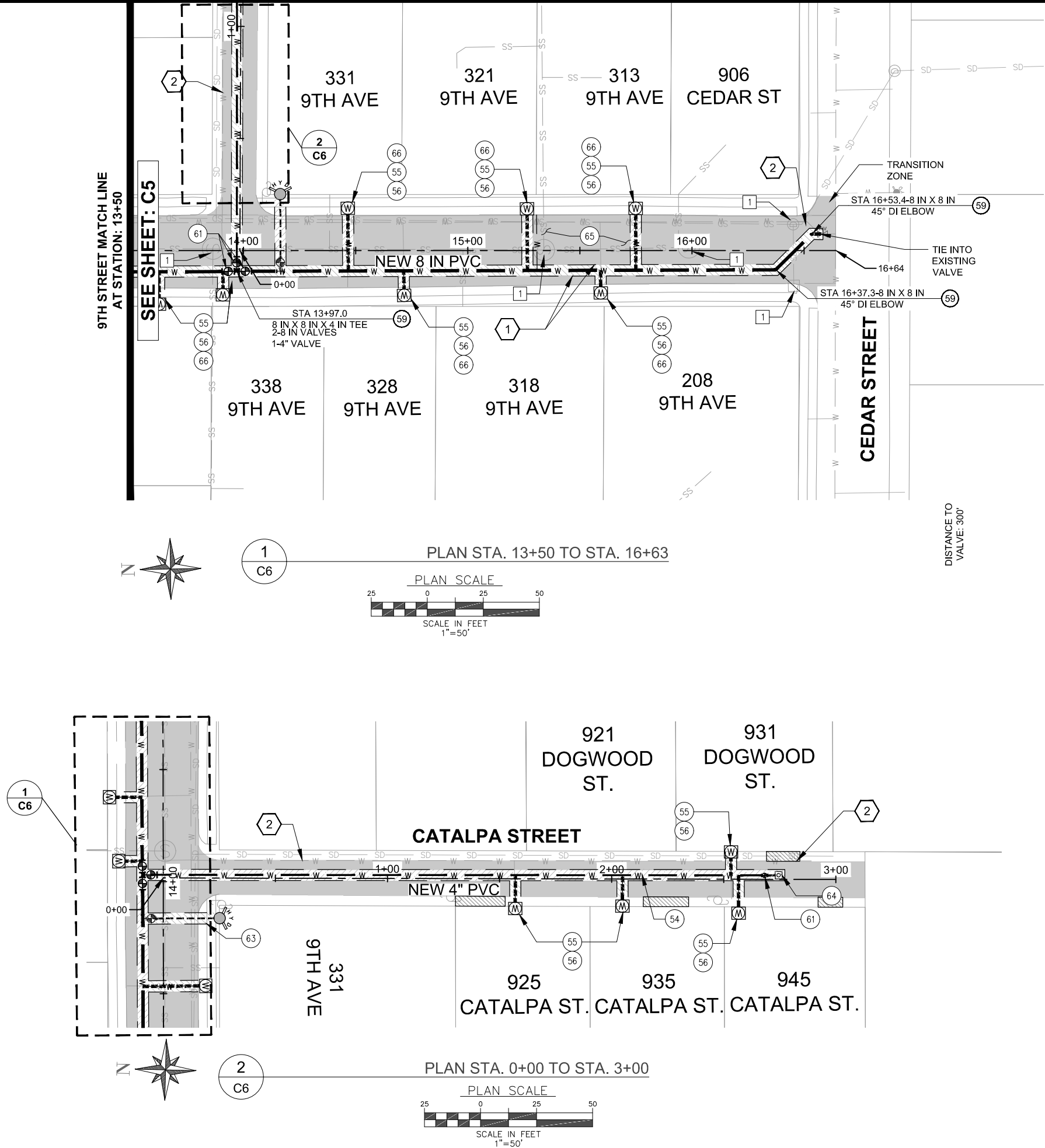
KEYED NOTES:	
1	PROTECT IN PLACE. RAISE AS NEEDED
2	POTHOLE EXISTING PRIOR TO WATERLINE INSTALLATION

SHEET NOTES:

1. CONTRACTOR SHALL CONTACT "ONE CALL" FOR UTILITY LOCATES PRIOR TO THE START OF ANY EXCAVATION.
2. CONTRACTOR SHALL POTHOLE EXISTING WATERLINE PRIOR TO NEW WATERLINE CONSTRUCTION TO CONFIRM EXISTING WATERLINE DEPTH LOCATION, AND FITTING REQUIREMENTS FOR CONNECTION OF NEW WATERLINE TO EXISTING.
3. TYPICAL BURY FOR NEW WATERLINE SHALL BE 36" TO TOP OF PIPE. ADJUST DEPTH OF BURY AS REQUIRED TO MAINTAIN CONSTANT GRADE
4. AFTER COMPLETION OF NEW WATERLINE AND ALL TESTING AND CONNECTIONS HAVE BEEN MADE, DESIGNATED PORTIONS OF EXISTING WATERLINE ARE TO BE ABANDONED IN PLACE. EXISTING VALVES AND BOXES SHALL BE REMOVED IN THEIR ENTIRETY ALONG WITH ANY TEMPORARY SPOOLS AND CONNECTIONS. PROVIDE END CAPS, BLIND FLANGES OR PLUGS AS REQUIRED FOR COMPLETE ABANDONMENT OF DESIGNATED PORTIONS OF EXISTING WATERLINES.

Sheet No. Date		C4 APRIL 2022		CITY OF SWEET HOME LINN COUNTY, OR 2022 WATERMAIN REPLACEMENT PROGRAM 9TH AVE PLAN STA 41+50 TO 8+75	
REV. 	DATE 	DESCRIPTION 	BY 	PRELIMINARY  Civil West Engineering Services, Inc. 541-223-5130 www.civilwest.com 200 FERRY ST SW ALBANY, OR 97321 541-223-5130 www.civilwest.com	
DESIGNED BY: ERM DRAWN BY: FT CHECKED BY: MDW PROJECT NO: 2817405					

DATE: 4/26/22 FILE: C:\CW_Projects\2017 Sweet Home\2017-005 9th Ave Water Distribution System Improvements PH2004 Final Design\Drawings\DWG\2017-05-DESIGN 9th.dwg



DEMOLITION NOTES:	
1	SAWCUT AND REMOVE.
2	CAP EXISTING AND ABANDON IN PLACE.
IMPROVEMENT NOTES:	
54	INSTALL NEW PVC WATER PIPE (C-900) INCLUDING FITTINGS AND FIXTURES WITH 36" COVER MINIMUM. SEE DETAIL, 1 D1
55	INSTALL NEW WATER SERVICE LATERAL. SEE DETAILS, 1 D2
56	INSTALL NEW WATER METER BOX. SEE DETAILS, 1 D2
59	INSTALL THRUST BLOCKS AND MEGALUGS AT EACH TRANSITIONAL JOINT. SEE DETAIL, 1 D3
61	INSTALL NEW WATER VALVE PER PROJECT SPECIFICATIONS. SEE DETAIL, 1 D4
63	INSTALL NEW FIRE HYDRANT ASSEMBLY AND SERVICE LINE. ALL BEDDING, THRUST BLOCKS, AND FIXTURES SHALL CONFORM TO PROJECT PLANS AND SPECIFICATIONS. SEE DETAIL, 1 D5 1 D3
64	INSTALL BLOW OFF VALVE. SEE DETAIL, 1 D6
65	OVERLAY ASPHALT, MATCH EXISTING SLOPES, SEE DETAILS, 1 D7 2 D7
66	REPLACE SIDEWALK, CURB AND GUTTER, MATCH EXISTING. SEE DETAIL, 1 D8 1 D9
67	4" PERFORATED PIPE TO BE INSTALLED BY OTHERS
68	REMOVE EXISTING PEDESTRIAN RAMP. REPLACE WITH ADA COMPLIANT PEDESTRIAN RAMP

KEYED NOTES:	
1	PROTECT IN PLACE. RAISE AS NEEDED
2	POTHOLE EXISTING PRIOR TO WATERLINE INSTALLATION
SHEET NOTES:	
1. CONTRACTOR SHALL CONTACT "ONE CALL" FOR UTILITY LOCATES PRIOR TO THE START OF ANY EXCAVATION.	
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PRELIMINARY

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Engineering Services, Inc.

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ALBANY, OR 97321

BY: []
DATE: []
DESCRIPTION: []
REV: []

DESIGNED BY: ERM
CHECKED BY: MDW
DRAWN BY: FT
PROJECT NO: 2817-05

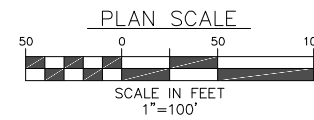
CITY OF SWEET HOME
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2022 WATERMAIN REPLACEMENT PROGRAM

9TH AVE PLAN STA 13+50 TO 16+64

Date: []
Sheet No: []

APRIL 2022



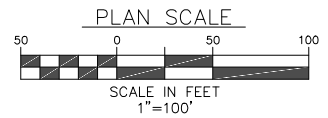
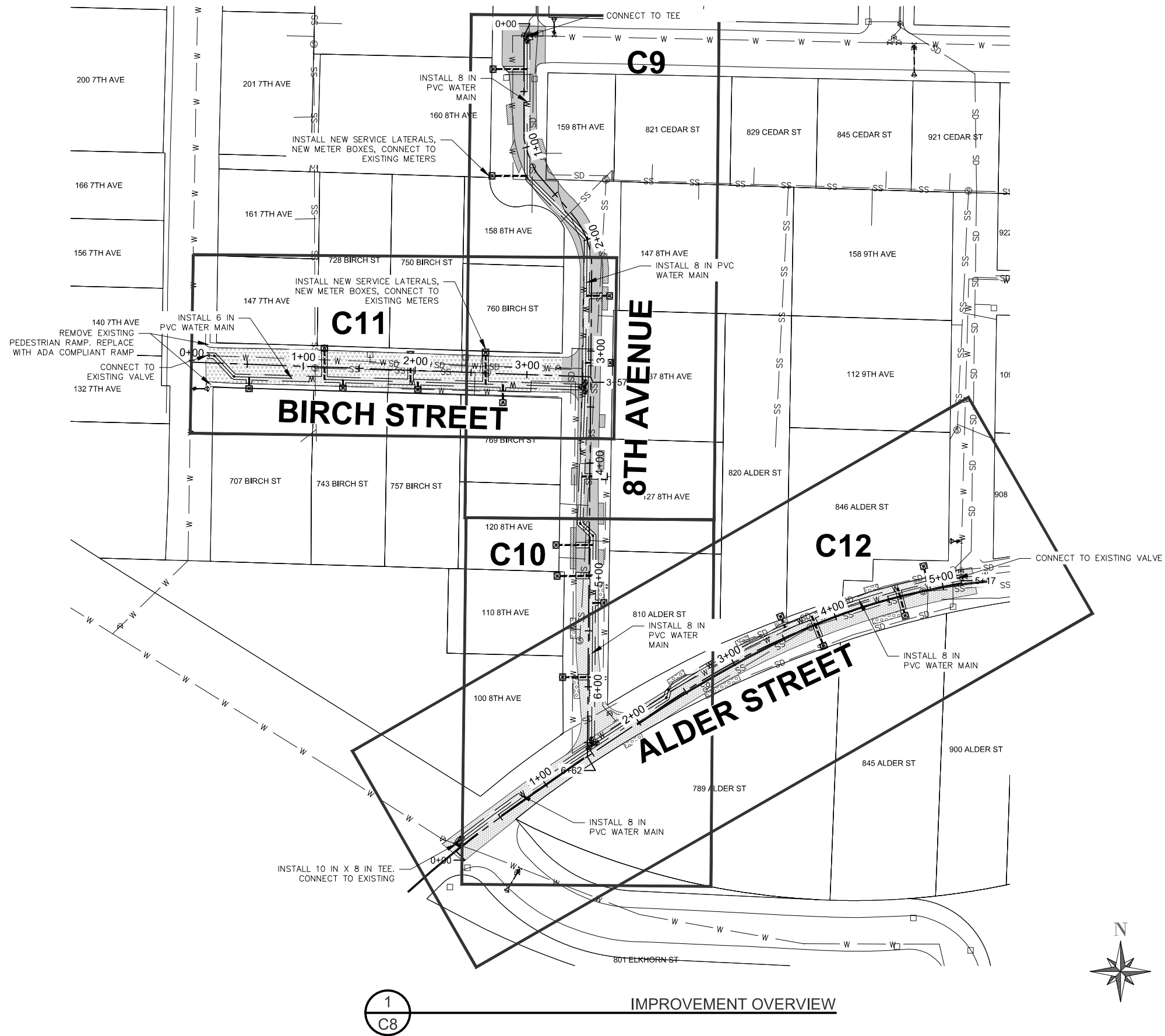
Date		Sheet No.		C7 APRIL 2022			
CITY OF SWEET HOME LINN COUNTY, OR							
2022 WATERMAIN REPLACEMENT PROGRAM							
8TH + ALDER EXISTING CONDITION							
REV.	DATE	DESCRIPTION		BY			
DESIGNED BY: ERM		DRAWN BY: FT		CHECKED BY:			
PROJECT NO: 2817-05							



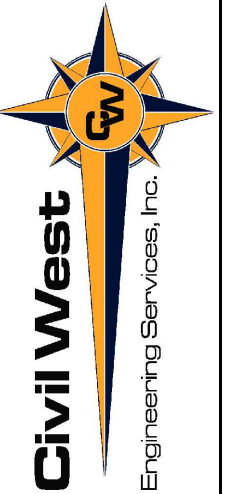
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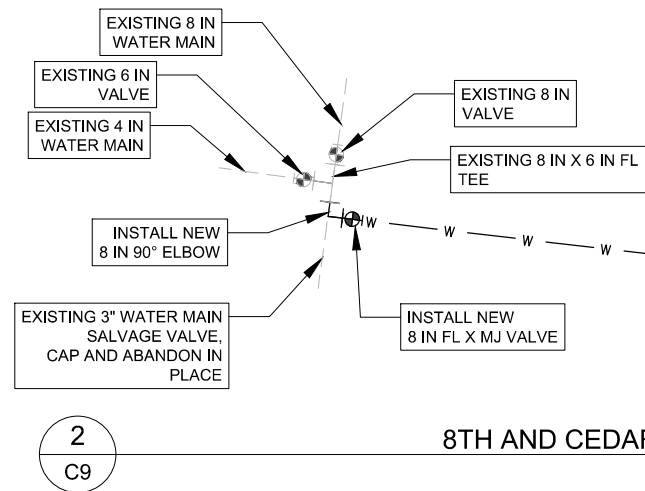
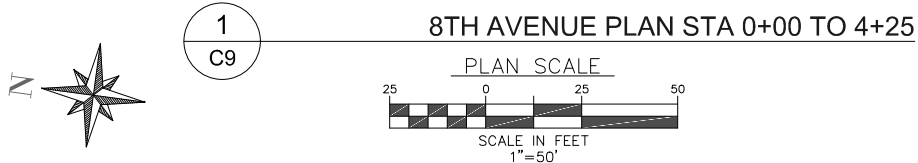
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LINN COUNTY, OR

2022 WATERMAIN REPLACEMENT PROGRAM

8TH + ALDER IMPROVEMENTS OVERVIEW

C8

APRIL 2022



KEYED NOTES:	
1	PROTECT IN PLACE. RAISE AS NEEDED.
2	POTHOLE EXISTING PRIOR TO WATERLINE INSTALLATION.

SHEET NOTES:

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CITY OF SWEET HOME LINN COUNTY, OR	2022 WATERMAIN REPLACEMENT PROGRAM	8TH ST PLAN STA 0+00 TO 4+25
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DATE: 4/26/22 FILE: C:\CW_Projects\2817 Sweet Home\2817-005 8th Ave Water Distribution System Improvements Ph2\04 Final Design\Drawings\DWG\2817-05 DESIGN ALDER.dwg

8TH AVE MATCH LINE
AT STATION: 4+25

SEE SHEET: C9

120 8TH AVE

110 8TH AVE

100 8TH AVE

810 ALDER ST

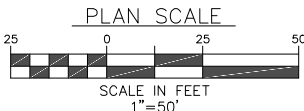
789 ALDER ST

ALDER STREET

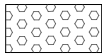


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C10

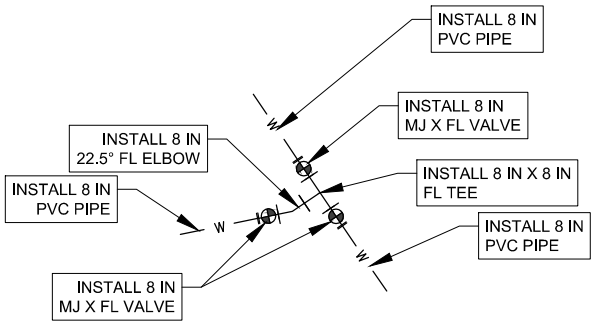
8TH AVENUE PLAN STA 4+25 TO 6+62



ADDITIVE ALTERNATE
AC OVERLAY



ADDITIVE ALTERNATE
DRIVEWAY



2
C10

8TH AND ALDER CONNECTION

SCALE: NTS

DEMOLITION NOTES:

1	SAWCUT AND REMOVE.
2	CAP EXISTING AND ABANDON IN PLACE.

IMPROVEMENT NOTES:

54	INSTALL NEW PVC WATER PIPE (C-900) INCLUDING FITTINGS AND FIXTURES WITH 36 IN COVER MINIMUM. SEE DETAIL, 1 D1
55	INSTALL NEW WATER SERVICE LATERAL. SEE DETAILS, 1 D2
56	INSTALL NEW WATER METER. CITY SHALL PROVIDE METER AND VAULT. SEE DETAILS, 1 D2
59	INSTALL THRUST BLOCKS AND MEGALUGS AT EACH TRANSITIONAL JOINT. SEE DETAIL, 1 D3
61	INSTALL NEW WATER VALVE PER PROJECT SPECIFICATIONS. SEE DETAIL, 1 D4
63	INSTALL NEW FIRE HYDRANT ASSEMBLY AND SERVICE LINE. ALL BEDDING, THRUST BLOCKS, AND FIXTURES SHALL CONFORM TO PROJECT PLANS AND SPECIFICATIONS. SEE DETAIL, 1 D5, 1 D3
64	INSTALL BLOW OFF VALVE. SEE DETAIL, 1 D6
65	OVERLAY ASPHALT, MATCH EXISTING. SEE DETAILS, 1 D7, 2 D7
66	REPLACE SIDEWALK, CURB AND GUTTER, MATCH EXISTING. SEE DETAIL, 1 D8, 1 D9
67	INSTALL CATCH BASIN AND ~25 FT OF 12 IN PVC PIPE, TIE INTO DITCH. SEE DETAIL, 1 D10
68	REMOVE EXISTING PEDESTRIAN RAMP. REPLACE WITH ADA COMPLIANT PEDESTRIAN RAMP

KEYED NOTES:

1	PROTECT IN PLACE. RAISE AS NEEDED.
2	POTHOLE EXISTING PRIOR TO WATERLINE INSTALLATION.

SHEET NOTES:

- CONTRACTOR SHALL CONTACT "ONE CALL" FOR UTILITY LOCATES PRIOR TO THE START OF ANY EXCAVATION.
- CONTRACTOR SHALL POTHOLE EXISTING WATERLINE PRIOR TO NEW WATERLINE CONSTRUCTION TO CONFIRM EXISTING WATERLINE DEPTH LOCATION, AND FITTING REQUIREMENTS FOR CONNECTION OF NEW WATERLINE TO EXISTING.
- TYPICAL BURY FOR NEW WATERLINE SHALL BE 36 IN TO TOP OF PIPE. ADJUST DEPTH OF BURY AS REQUIRED TO MAINTAIN CONSTANT GRADE
- AFTER COMPLETION OF NEW WATERLINE AND ALL TESTING AND CONNECTIONS HAVE BEEN MADE, DESIGNATED PORTIONS OF EXISTING WATERLINE ARE TO BE ABANDONED IN PLACE. EXISTING VALVES AND BOXES SHALL BE REMOVED IN THEIR ENTIRETY ALONG WITH ANY TEMPORARY SPOOLS AND CONNECTIONS. PROVIDE END CAPS, BLIND FLANGES OR PLUGS AS REQUIRED FOR COMPLETE ABANDONMENT OF DESIGNATED PORTIONS OF EXISTING WATERLINES.

PRELIMINARY



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REV.	DATE	DESCRIPTION	BY
DESIGNED BY:	ERM	DRAWN BY:	MDW
CHECKED BY:	FT		
PROJECT NO:	2817-05		

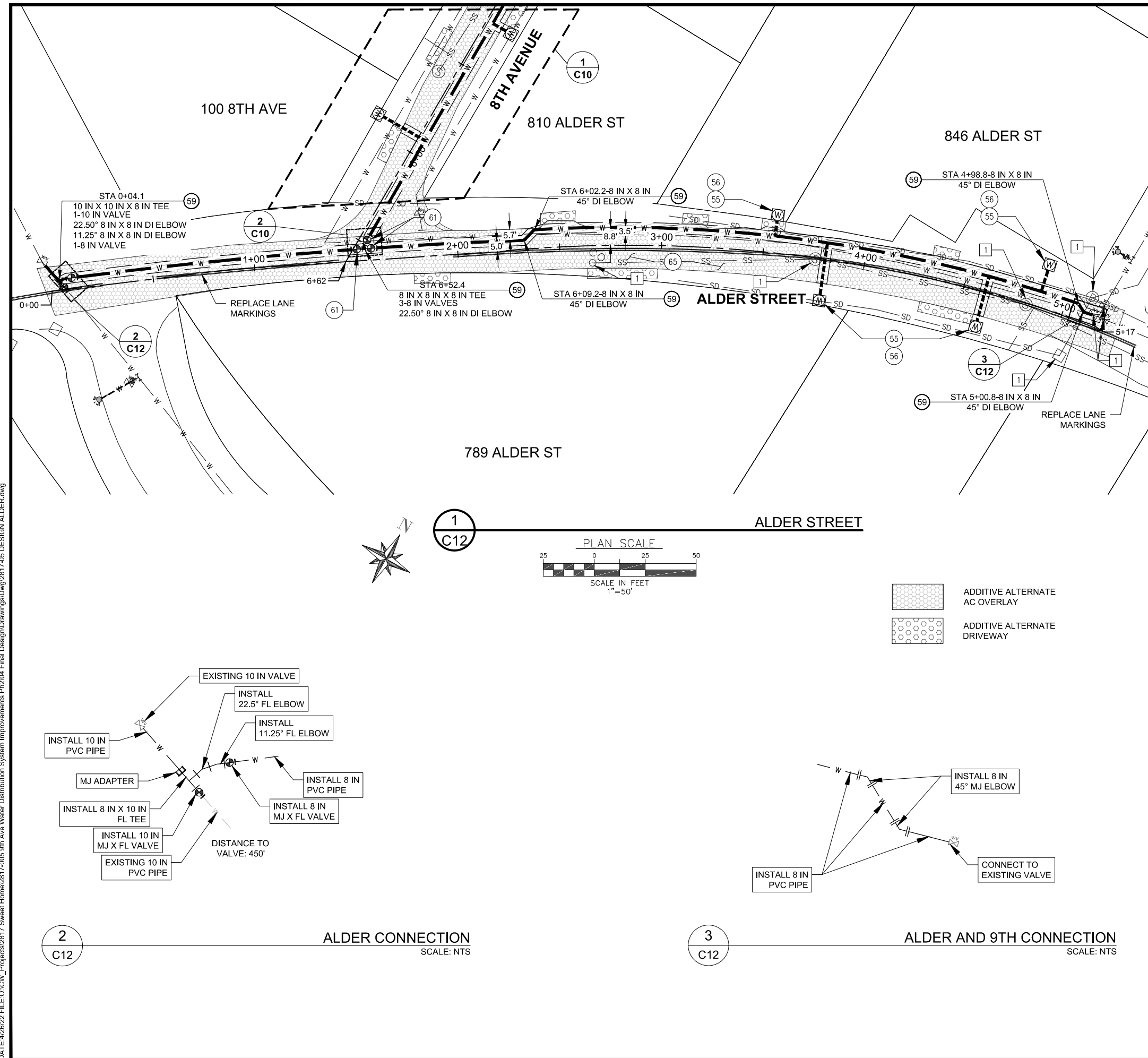
CITY OF SWEET HOME
LINN COUNTY, OR

2022 WATERMAIN REPLACEMENT PROGRAM

8TH ST PLAN STA 4+25 TO 6+62

Date: Sheet No:
C10
APRIL 2022

C11 APRIL 2022 CITY OF SWEET HOME LINN COUNTY, OR		REV. DATE DESCRIPTION BY	
2022 WATERMAIN REPLACEMENT PROGRAM		DESIGNED BY: ERM DRAWN BY: FT CHECKED BY: MDW	
		PROJECT NO: 2817-05	
		Civil West  Engineering Services, Inc. 200 FERRY ST. SW ALBANY, OR 97321 541-266-8601 www.civilwest.com	
BIRCH STREET			



DEMOLITION NOTES:	
1	SAWCUT AND REMOVE.
2	CAP EXISTING AND ABANDON IN PLACE.
IMPROVEMENT NOTES:	
54	INSTALL NEW PVC WATER PIPE (C-900) INCLUDING FITTINGS AND FIXTURES WITH 36 IN COVER MINIMUM. SEE DETAIL, 
55	INSTALL NEW WATER SERVICE LATERAL. SEE DETAILS, 
56	INSTALL NEW WATER METER. CITY SHALL PROVIDE METER AND VAULT. SEE DETAILS, 
59	INSTALL THRUST BLOCKS AND MEGALUGS AT EACH TRANSITIONAL JOINT. SEE DETAIL, 
61	INSTALL NEW WATER VALVE PER PROJECT SPECIFICATIONS. SEE DETAIL, 
63	INSTALL NEW FIRE HYDRANT ASSEMBLY AND SERVICE LINE. ALL BEDDING, THRUST BLOCKS, AND FIXTURES SHALL CONFORM TO PROJECT PLANS AND SPECIFICATIONS. SEE DETAIL,  
64	INSTALL BLOW OFF VALVE. SEE DETAIL, 
65	OVERLAY ASPHALT, MATCH EXISTING. SEE DETAILS,  
66	REPLACE SIDEWALK, CURB AND GUTTER, MATCH EXISTING. SEE DETAIL,  
67	INSTALL CATCH BASIN AND ~25 FT OF 12 IN PVC PIPE, TIE INTO DITCH. SEE DETAIL, 
68	REMOVE EXISTING PEDESTRIAN RAMP. REPLACE WITH ADA COMPLIANT PEDESTRIAN RAMP

KEYED NOTES:	
1	PROTECT IN PLACE. RAISE AS NEEDED.
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SHEET NOTES:

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CITY OF SWEET HOME LINN COUNTY, OR 2022 WATERMAIN REPLACEMENT PROGRAM ALDER STREET		REV. DATE DESCRIPTION BY		DESIGNED BY: ERM DRAWN BY: FT CHECKED BY: MDW		PROJECT NO: 2817-45			
Civil West				Engineering Services, Inc.		200 FERRY ST. SW ALBANY, OR 97321		541-266-8601 www.civilwest.com	
C12		APRIL 2022		PRELIMINARY					

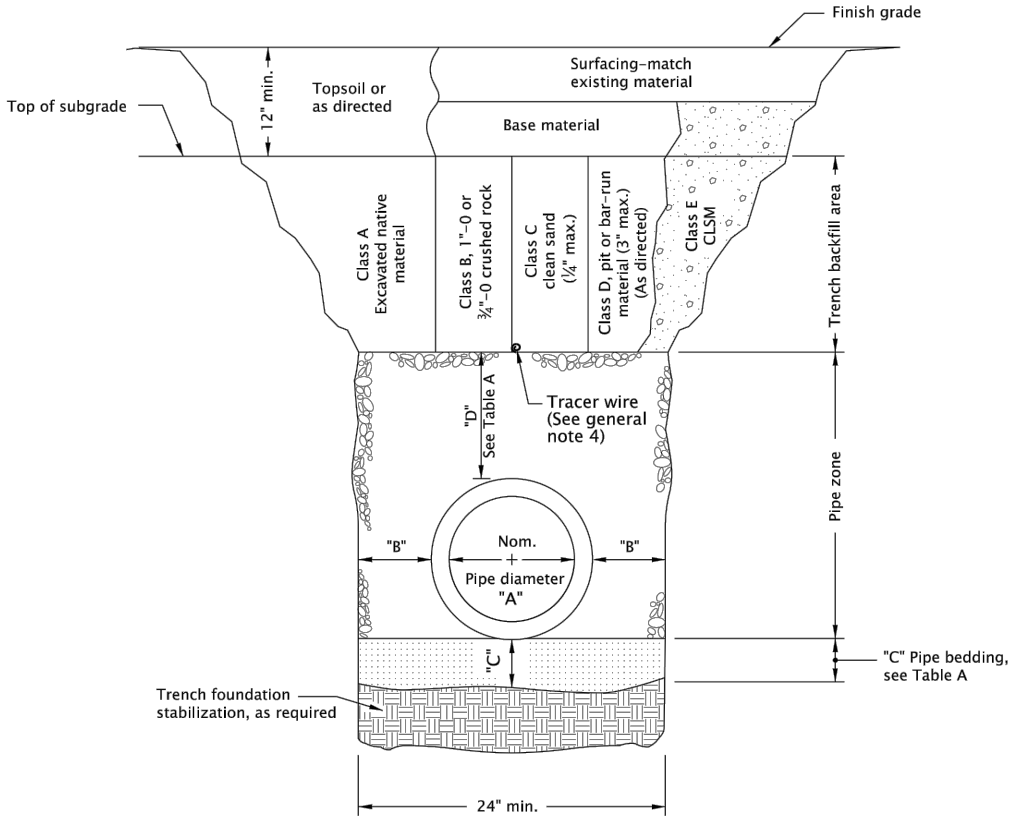
DATE:4/26/22 FILE:C:\CW_Projects\2817 Sweet Home\2817-005 9th Ave Water Distribution System Improvements Ph2\04 Final Design\Drawings\DWG\2817-05-Details.dwg

rd300.dgn 20-JUL-2020

RD300

TABLE A			
"A" (in)	"B" (in)	"C" (in)	"D" (in)
4	10	4	8
6	10	4	8
8	10	6	10
10	10	6	10
12	12	6	10
15	12	6	10
18	16	6	12
21	16	6	12
24	18	6	12
30	18	6	12
36	24	6	14
42	24	6	14
48	24	6	14
54	24	6	14
60	24	6	14
66	24	6	14
72	24	6	14

For pipes over 72" diameter,
see general note 3.



MULTIPLE INSTALLATIONS	
DIAMETER	MIN. SPACE BETWEEN PIPES
Up to 48"	24"
48" to 72"	One half (1/2) dia. of pipe

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- Surfacing of paved areas shall comply with street cut Std. Dwg. RD302.
- For pipe installation in embankment areas where the trench method will not be used and the pipe is ≥ 36 " diameter, increase dimension "B" to nominal pipe diameter.
- Pipes over 72" diameter are structures, and are not applicable to this drawing.
- See Std. Dwg. RD336 for tracer wire details (When required).

CALC. BOOK NO. <u> N/A </u>		SDR DATE <u> 14-JUL-2014 </u>	
<i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</i>		NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
		OREGON STANDARD DRAWINGS	
		TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS	
		2021	
		DATE	REVISION DESCRIPTION

Effective Date: June 1, 2021 – November 30, 2021

RD300

1
D1

WATER MAIN TRENCH AND BACKFILL DETAIL
NOT TO SCALE

PRELIMINARY

BY		DESCRIPTION		DATE		REV.	
DESIGNED BY: ERM		DRAWN BY: FT		CHECKED BY: MDW			
PROJECT NO:		2817-005					

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RD274

WATER SERVICE CONNECTION
NOT TO SCALE

DATE:4/26/22 FILE:C:\CW_Projects\2817 Sweet Home\2817-005 9th Ave Water Distribution System Improvements Ph2\04 Final Design\Drawings\DWG\2817-05-Details.dwg

rd250.dgn 20-JUL-2020

RD250

TABLE A						
CONCRETE THRUST BLOCKING (HORIZONTAL)						
		Thrust (T) at fittings in Pounds				
PIPE DIA.	Table Pressure PSI	Tee & Dead Ends	90 deg Bend	45 deg Bend	22.5 deg Bend	11.25 deg Bend
4"	250	3035	4320	2315	1215	610
6"	250	6860	9735	5215	2720	1375
8"	250	12185	17310	9265	4835	2430
10"	250	19045	27045	14480	7560	3800
12"	250	27405	38940	20840	10880	5465
14"	250	37320	53010	28370	14815	7445
16"	250	48740	69245	37050	19360	9735

TABLE B	
Soil Type	Soil Bearing Capacity (B) in PSF
Muck, peat, etc.	0
Soft Clay	1000
Sand	2000
Sand and gravel	3000
Sand and gravel cemented with clay	4000
Hard shale	10,000

THRUST BLOCK BEARING AREA EQUATION

NOTE: WHEN THRUST BLOCK BEARING AREA IS NOT SPECIFIED ON THE PLANS OR DETERMINED BY THE ENGINEER, USE THE FOLLOWING PROCEDURE TO DETERMINE REQUIRED BEARING AREA.

- Determine thrust (T) for type of fitting or joint and size of pipe from Table A.
- Determine Design (Test) Pressure from Standard Specifications or Special Provisions.
- Determine Table Pressure from Table A.
- Determine Soil Bearing Capacity (B) of soil from Table B.
- Determine required bearing area (A) in sq. ft. as follows:

Thrust Block Bearing Area = $A = \left(\frac{T}{B} \right) \left(\frac{\text{Design (Test) Pressure}}{\text{Table Pressure}} \right)$

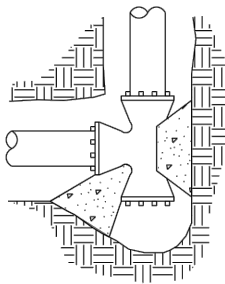
Example: Design (Test) Pressure = 150 PSI
Pipe = 14"
Fitting = Tee
Soil = Sand

From Table A, T = 37320
From Table B, B = 2000

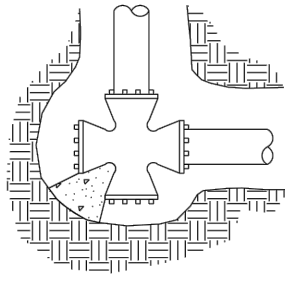
$A = \left(\frac{37320}{2000} \right) \left(\frac{150}{250} \right) = 11.2 \text{ sq.ft.}$

THRUST BLOCKING

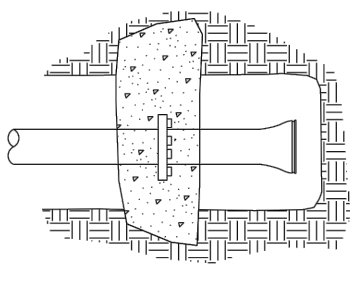
TABLE C							
CONCRETE BLOCKING FOR CONVEX VERTICAL BENDS							
DIMENSION TABLE							
PIPE DIA. in.	Table Pressure PSI	Bend Angle (deg)	Concrete Volume (cy)	Cube Size (ft)	Stirrup Dia. (in)	Stirrup Embmt. (in)	Stirrup Bar #
4"	250	11.25	0.21	1.8	$\frac{3}{8}$	17	5
		22.5	0.43	2.3			
		45	0.77	2.8			
6"	250	11.25	0.48	2.4	$\frac{3}{8}$	17	5
		22.5	0.95	3.0			
		45	1.79	3.6			
8"	250	11.25	0.86	2.9	$\frac{3}{8}$	17	5
		22.5	1.65	3.5			
		45	3.22	4.4			
10"	250	11.25	1.39	3.3	$\frac{3}{8}$	17	5
		22.5	2.62	4.1			
		45	4.97	4.1			
12"	250	11.25	1.94	3.7	$\frac{3}{8}$	17	5
		22.5	3.91	4.7			
		45	6.89	5.7		24	7
14"	250	11.25	2.62	4.1	$\frac{3}{8}$	17	5
		22.5	5.26	5.2		20	6
		45	9.70	6.4		27	8
16"	250	11.25	3.44	4.5	$\frac{3}{8}$	17	5
		22.5	6.89	5.7		24	7
		45	12.63	7.0		30	9



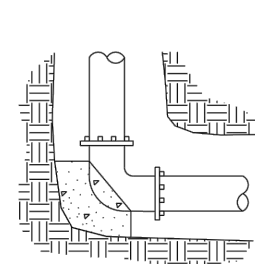
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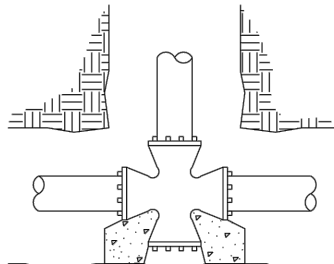
CROSS



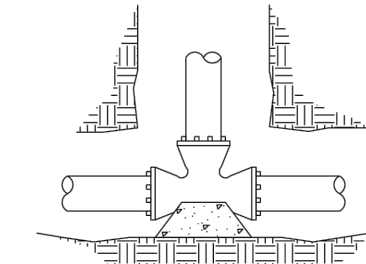
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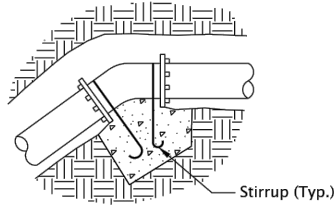
BEND



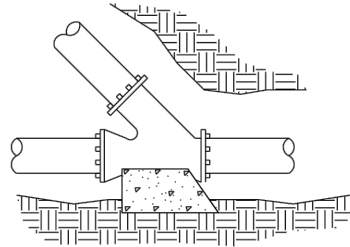
CROSS



TEE



CONVEX VERTICAL BEND
(See Table C)



WYE

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- Contractor to provide blocking adequate to withstand full test pressure.
- Pour concrete blocking against undisturbed earth.
- All concrete shall be commercial grade concrete.
- Wrap pipe and/or fittings with 2 layers of polyethylene film where in contact with concrete
- Keep concrete clear of all joints and accessories.
- Stirrups shall be deformed galvanized cold rolled steel AASHTO M31 (ASTM A615), Grade 60. Coat with coal tar epoxy after installation.
- See project plans for details not shown.

CALC. BOOK NO. N/A

SDR DATE 25-JUL-2017

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

THRUST BLOCKING

2021

DATE	REVISION	DESCRIPTION

Effective Date: June 1, 2021 – November 30, 2021

RD250

1
D3

THRUST BLOCK DETAIL
NOT TO SCALE

PRELIMINARY



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ALBANY, OR 97321

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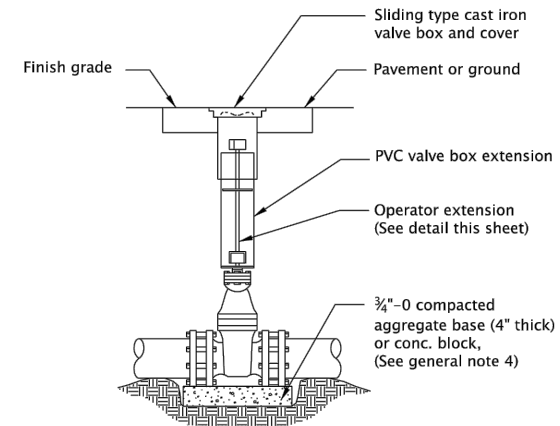
DESIGNED BY: ERM	DRAWN BY: FT	CHECKED BY: MDW
PROJECT NO: 2817-005		

CITY OF SWEET HOME
LINN COUNTY, OR

2022 WATERMAIN REPLACEMENT PROGRAM

THRUST BLOCK DETAIL

Sheet No: **D3**
Date: **APRIL 2022**



GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Valve box not to rest on operating assembly.
2. Operator extension required when valve nut is deeper than 4' from finish grade.
3. Center valve box on axis of operator nut.
4. Valves 12" and smaller shall be provided with compacted aggr. base on undisturbed ground. Valves greater than 12" shall be installed on precast concrete block, (4" thick).
5. Welds shall be minimum $\frac{1}{4}$ " all around.
6. Hot dip galvanize operator extension after fabrication.
7. Casting shall meet H20 load requirement.
8. Provide concrete or asphalt pad (24" square, 4" thick), when required.
9. See project plans for details not shown.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

VALVE BOX AND OPERATOR
EXTENSION ASSEMBLY

2021

DATE	REVISION DESCRIPTION

RD258

VAVLE BOX DETAIL

NOT TO SCALE

ALBANY, OR 97321
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REV.	DATE	DESCRIPTION	BY

DESIGNED BY: ERM	DRAWN BY: FT	CHECKED BY: MDW
PROJECT NO: 28174005		

CITY OF SWEET HOME
LINN COUNTY, OR

2022 WATERMAIN REPLACEMENT PROGRAM

VALVE BOX DETAIL

Sheet No.	D4
Date	APRIL 2022



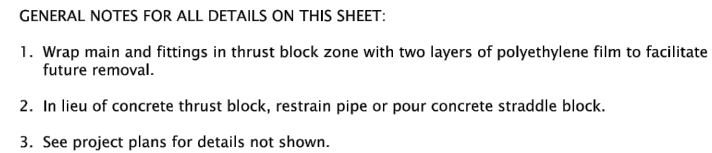
6. Extensions required for hydrant systems shall be installed to the manufacturer's specifications.
7. Hydrants shall be placed to provide a minimum of 5' clearance from driveways, poles, and other obstructions.
8. Hydrant pumper port shall face direction of access.
9. Set hydrant plumb in all directions.
10. See project plans for details not shown.

DATE	REVISION DESCRIPTION

RD254

FIRE HYDRANT ASSEMBLY DETAIL

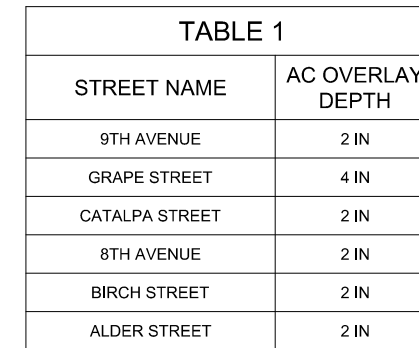
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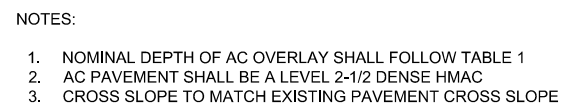
CALC. BOOK NO. <u>N/A</u>	SDR DATE <u>25-JUL-2017</u>	
<i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</i>	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
	OREGON STANDARD DRAWINGS	
	TYPICAL MAIN DEAD-END BLOWOFF ASSEMBLY	
	2021	
	DATE	REVISION DESCRIPTION

RD262

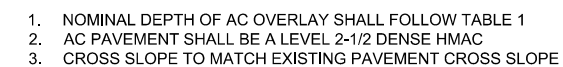
BLOW-OFF ASSEMBLY DETAIL
NOT TO SCALE



1 D7 ASPHALT CONCRETE PAVEMENT DETAIL NOT TO SCALE



2 OVERLAY TRANSITION DETAIL
D7 NOT TO SCALE



3 D7 GRAVEL DRIVEWAY TRANSITION DETAIL NOT TO SCALE

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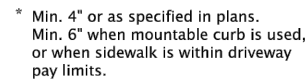
CITY OF SWEET HOME
LINN COUNTY, OR

2022 WATERMAIN REPLACEMENT PROGRAM

ASPHALT CONCRETE PAVEMENT DETAILS

D7

APRIL 2022



SECTION A-A

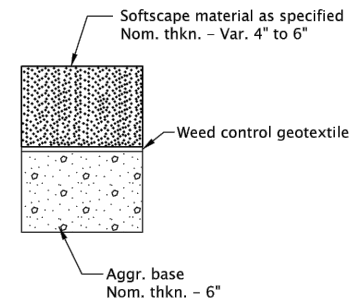
TYPICAL SETBACK SIDEWALK CROSS SECTION

E = curb exposure, see general note 6

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Include additional pored or unpaved 2' shy distance to vertical faces higher than 5' such as retaining walls, sound walls, fences and buildings.
2. Curb type and sidewalk width as shown on plans or as directed.
3. On sidewalks 8' and wider, provide a longitudinal joint at the midpoint.
On sidewalks 8' and wider, provide a longitudinal joint at the midpoint.
3. Install 3" pvc weep hole pipes in sidewalks where shown on plans, and allowed by jurisdiction.
Place contraction joint over top of pipe. See Std. Dwg. RD700 for weep hole details.
4. Provide expansion joints around poles, posts, boxes, at ends of each driveway, and other fixtures which protrude through or against the structures.
For sidewalk, monolithic curb & sidewalk, const. expansion joints at 45' maximum spacing.
See Std. Dwg. RD722 for expansion joint details.

5. Const. contraction joints at 15' maximum spacing, and at ends of each curb ramp.
See Std. Dwg. RD722 for contraction joint details.
6. Curb and gutter shown; see project plans for the curb design specified.
For curb details, see Std. Dwg. RD700 & RD701.
ODOT standard E=7".
7. Sidewalk details are based on ODOT applicable standards.
8. Driveway encroaches into sidewalk shown; see project plans for the driveway design specified.
For driveway details not shown, see Std. Dwg. RD725, RD730, RD735, RD740,
RD745 & RD750.
9. See project plans for details not shown.
10. Provide plantings in areas 12 SF or greater, as shown or directed. Treat areas less than 12 SF with mulch surfacing.



NON-PLANTED SOFTSCAPE CROSS SECTION

NOTES:

- 1 Use softscape materials allowed by jurisdiction.
2. Approved softscape materials:
 - a) Loose, durable round rock 2"-4" in diameter
 - b) Lava rock 2"-4" diameter
 - c) Wood chips/bark mulch
 - d) Sand
3. No crushed aggregate or pea gravel allowed.
4. Install softscape material flush with the top of sidewalk.

LEGEND

-  Sidewalk pay limit.
-  Driveway pay limit, varies by option,
(See general note 8).
-  Cross slope 1.5% max.
(Max. 2.0% finished surface slope)
(Normal sidewalk cross slope)

CALC. BOOK NO. N/A

SDR DATE 20-JUL-2020

NOTE:	All material and workmanship shall be in accordance with the current Oregon Standard Specifications
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OREGON STANDARD DRAWINGS

SEPARATED SIDEWALKS

2021

DATE	REVISION	DESCRIPTION

Effective Date: June 1, 2021 – November 30, 2021

RD721

1
D8

SIDEWALK WITH LANDSCAPE STRIP

NOT TO SCALE

PRELIMINARY



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ALBANY, OR 97321

REV.	DATE	DESCRIPTION	BY

DESIGNED BY: ERM	DRAWN BY: FT	CHECKED BY: MDW
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PROJECT NO: 2817-005

CITY OF SWEET HOME
LINN COUNTY, OR

2022 WATERMAIN REPLACEMENT PROGRAM

SIDEWALK WITH LANDSCAPE STRIP DETAIL

Date	Sheet No.
------	-----------

D8

APRIL 2022



CITY OF SWEET HOME LINN COUNTY, OR	2022 WATERMAIN REPLACEMENT PROGRAM	CURB AND GUTTER DETAIL
Date	Sheet No.	D9
APRIL 2022		



LOW PROFILE MOUNTABLE CURB AND GUTTER
(Where shown on plans)



5. Tops of all curbs shall slope toward the roadway at 1.5% max. (Max. 2.0% finished surface slope), unless otherwise shown, or as directed.
6. Dimensions are nominal, vary to conform with curb machine approved by the engineer.
7. Dimensions adjacent to radii are measured to the point of intersection of curb surfaces.
8. For sidewalk details, and monolithic curb & sidewalk, see Std. Dwgs. RD720 & RD721.
9. For drainage curbs, see Std. Dwg. RD701.
10. For curb ramp details, see Std. Dwgs. RD900 series.
11. On or along state highways, curb and gutter is required at curb ramp.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

CURBS

2021

DATE	REVISION DESCRIPTION

Effective Date: June 1, 2021 – November 30, 2021

RD700

