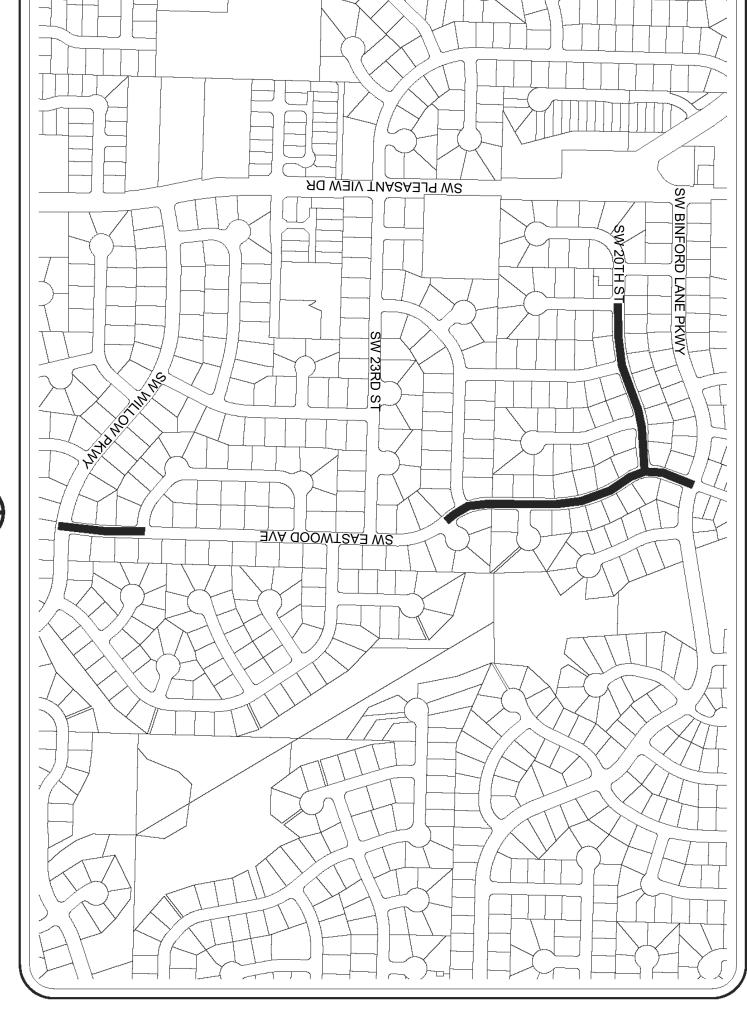
FOR LOCAL ST IMPROV. PH II

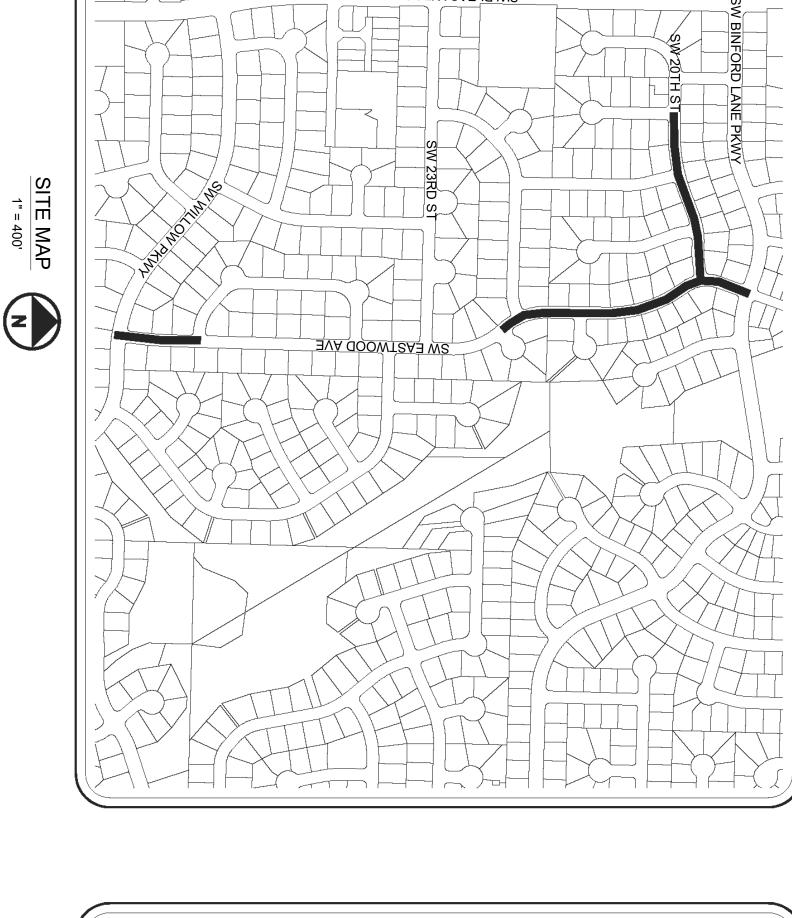
SW EASTWOOD AVE (S) PLAN AND PROFILE SHEET INDEX COVER SHEET
NOTES AND LEGEND

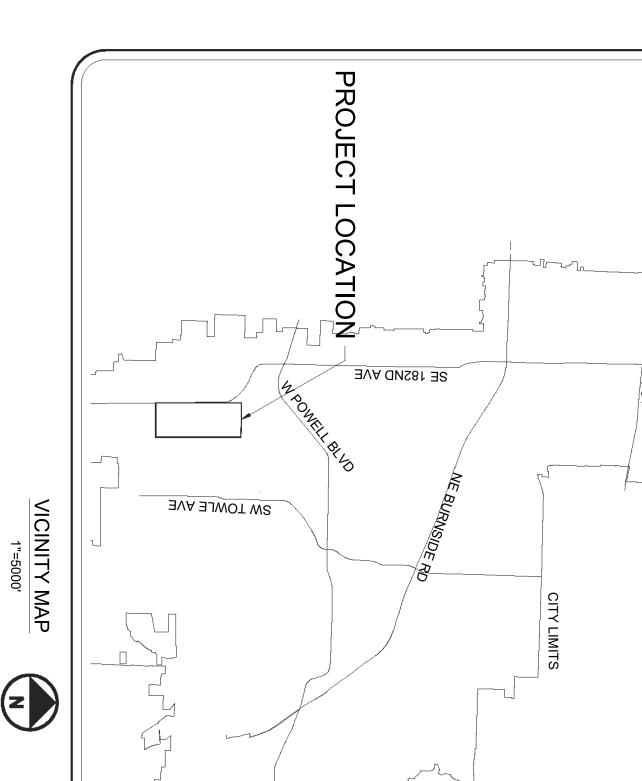
SW EASTWOOD AVE (N) PLAN AND PROFILE STA 10+00 TO STA 13+50

7 6 5 4 3 2

SW EASTWOOD AVE (N) PLAN AND PROFILE STA 17+00 TO STA 20+00 SW EASTWOOD AVE (N) PLAN AND PROFILE STA 13+50 TO STA 17+00 SW 20TH ST PLAN AND PROFILE STA 0+00 TO STA 3+75







FRONTIER
DAVID CARNLEY

COMCAST CABLE RICHARD MARONEY

503-813-0482

)3-667-9781

)3-707-2812

VERIZON MIKE BRITEX

NORTHWEST NATURAL GAS SCOTT PALMER

)3-367-4984

PORTLAND GENERAL ELECTRIC

503-736-5450

CITY OF GRESHAM TRANSPORTATION DIVISION RAE SORENSON 503-618-2919

CITY OF GRESHAM STORMWATER DIVISION
DAVID LASHBAUGH 503-618-2911

CITY OF GRESHAM WATER DIVISION
SILAS RICHARDSON
503-618-2990

503-665-4179

CITY OF GRESHAM WASTEWATER DIVISION 503-618-2940

CENTURYLINK SCOTT MILLER

ONE-CALL LOCATES

800-332-2344

503-242-4144

LOCATED AT THE INTERSECTION OF SW PLEASANT VIEW DR AND SW HIGHLAND DR ELEVATION = 376.99 FEET NGVD29 ELEVATION DATUM BASED ON A STANDARD CITY OF GRESHAM CONTROL MONUMENT, "3025", BEING A 2 INCH BRONZE DISK WITH A RAISED DATUM POINT (BERNTSEN MODEL CD2LB), STAMPED "CITY OF GRESHAM CONTROL DO NOT DISTURB".

CITY OF GRESHAM DEVELOPMENT ENGINEERING KEN KOBLITZ 503-618-2628

UTILITY CONTACTS

BENCHMARK

CITY OF GRESHAM PUBLIC WORKS STANDARDS:
ALL ELEMENTS IN THIS PROJECT SHALL MEET
THE CITY OF GRESHAM PUBLIC WORKS
STANDARDS.

Dial 811 or 800-332-2344 Know what's **below**. Call before you dig.

VICINITY MAP	PROJECT LOCATION BANGOR BURNON BURNON BANGOR
--------------	--

CITY OF	
GRESHAM	

DEPARTMENT OF ENVIRONMENTAL S 1333 N.W. EASTMAN PARKWAY GRESHAM, OREGON 97030-3813 503-618-2525

SERVICES	PROJEC ⁻
	SHEET N
	LOCATIO

WATER SYSTEM INFORMATION:
INTERMEDIATE SERVICE LEVEL
O.F.E = 575 FEET

SHEET 8 (SW 20TH ST) STATIC PRESSURE = 60-65 PSI TEST PRESSURE = 150 PSI

SHEETS 3 - 7 (SW EASTWOOD AVE) STATIC PRESSURE = 90-107 PSI TEST PRESSURE = 160 PSI

The information shown was prepared for use by the City of Gresham and for no other purpose. The City of Gresham shall not be responsible for any errors or omissions if used by others. All information MUST BE FIELD VERIFIED to substantiate its validity.
PROJECT NAME: 2021 WATERLINE REPLACEMENT FOR LOCAL ST IMPROV. PHASE II
CHEET NAME: COVER SHEET

OVER SHEET	
	IN THE CITY OF GRESHAM

CALE	_	ERT:	1"=4']			
CALE	Н	ORIZ:	1"=20'				
ATE:	ATE: NOVEMBER 2020						
ROJECT NO.: CIP NO. WT015							
LEGAL							
ECTIO	N	TOWNSHIP	RANGE				
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NOVEMBER 2020

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EXPIRES: 12/31/2021	APPRO	OVED:	JB	′	Ŭ

LEGEND

SANITARY SEWER LINE	ss
SANITARY SEWER MANHOLE	(\$)
STORM DRAIN	SD
CATCH BASIN	
STORM MANHOLE	(D)
ELECTRICITY	——— Е ———
GAS	GAS
COMMUNICATION LINE	COMM
MAIL BOX	MB
TREE	

WATER SYMBOLS

	EXISTING	PROPOSED
CAP/PLUG]
SLEEVE	#	
REDUCER	\triangleright	•
THRUST BLOCK	\triangleleft	◀
WATER METER	\boxplus	
FIRE HYDRANT (FH)	Q	
FLANGE JOINT (FLG)	II	II
MECHANICAL JOINT (MJ)	Г	Γ
AIR RELIEF VALVE (AR)	ް	,
BLOW-OFF VALVE (BO)	Ŷ	•
BUTTERFLY VALVE (BF)	8	ê
CHECK VALVE	N	\mathbb{N}
GATE VALVE (GV)	\otimes	0
ΓEE	H	工

GENERAL CONSTRUCTION NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF GRESHAM STANDARD SPECIFICATIONS AS OUTLINED IN THE PUBLIC WORKS STANDARDS (2019 EDITION).
- 2. OREGON LAW REQUIRES CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-011-0010 THROUGH OAR 952-001-000. CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER AT (503) 232-1987.
- 3. CONTRACTOR SHALL PROTECT EXISTING MONUMENTS, BENCH MARKS, PROPERTY CORNERS, AND GOVERNMENT MONUMENTS.
- 4. SPECIAL PERMITS TO BE OBTAINED BY THE CONTRACTOR.
- 5. EROSION CONTROL MEASURES ARE REQUIRED OF THIS PROJECT. SEE SPECIFIC EROSION CONTROL PLANS AND NOTES. ALL WORK MUST COMPLY WITH CITY OF GRESHAM EROSION CONTROL PLANS TECHNICAL GUIDANCE HANDBOOK AND STORM WATER CONSERVATION ACTIVITIES PERMIT FROM DEQ.
- 6. EXCAVATOR IS TO PROVIDE UTILITY NOTIFICATION IN ACCORDANCE WITH ORS 759.541 TO 757.571. EXCAVATORS MUST COMPLY WITH ALL PROVISIONS OF ORS 757.541 TO 757.57 INCLUDING NOTIFICATION OF ALL OWNERS OF UNDERGROUND FACILITIES AT LEAST 48 BUSINESS DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION.
- 7. CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES PRIOR TO BEGINNING CONSTRUCTION.
- 8. CONNECT ALL DRAIN TILE ENCOUNTERED DURING CONSTRUCTION TO PUBLIC STORM DRAIN

WATERLINE CONSTRUCTION NOTES:

- 1. ALL PUBLIC WATERLINE PIPE SHALL BE CLASS 52 DUCTILE IRON. DUCTILE IRON PIPE SHALL BE CEMENT-MORTAR LINED AND SHALL CONFORM TO ANSI A-21.11 AND SHALL BE U.S. TYTON JOINT PIPE OR APPROVED EQUAL. RUBBER RING GASKETS SHALL CONFORM TO ANSI A-21.11. ALL CAST IRON FITTINGS AND FLANGED DUCTILE IRON FITTINGS SHALL BE CLASS 250 AND ALL DUCTILE IRON MECHANICAL JOINT FITTINGS SHALL BE CLASS 350 CONFORMING TO ANSI/AWWA C110/A-21.10 AND ANSI/AWWA C153/A-21.53. MORTAR LINING SHALL BE SAME THICKNESS AS FOR PIPE. ALL PIPE FITTINGS AND APPURTENANCES SHALL BE NSF APPROVED. ALL PIPE SHALL BE RESTRAINED W/ "FIELD-LOC" GASKETS OR APPROVED EQUAL RESTRAINT SYSTEM.
- 2. NO PUBLIC WATER VALVES SHALL BE OPENED OR CLOSED (OPERATED) BY ANYONE BUT THE CITY OF GRESHAM WATER STAFF.
- 3. ALL PUBLIC WATERLINE PIPE SHALL HAVE A MINIMUM OF 36" OF COVER IN STREET RIGHT OF WAYS TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- 4. ALL WATERLINE PIPE IN EASEMENT AREAS WILL HAVE A MINIMUM OF 48" OF COVER FROM FINISHED GRADE.
- 5. ALL TEES, BENDS AND ENDS OF WATERLINES SHALL BE BLOCKED WITH POURED IN PLACE CONCRETE THRUST BLOCKS IN ACCORDANCE WITH THE CITY OF GRESHAM SPECIFICATIONS UNLESS ALTERNATE RESTRAINT SYSTEMS HAVE BEEN PREVIOUSLY APPROVED. ALL FITTINGS IN CONTACT WITH CONCRETE SHALL BE WRAPPED IN PLASTIC. FOR MECHANICALLY RESTRAINING MECHANICAL JOINTS, MEGA-LUG BRAND FOLLOWER GLANDS OR APPROVED EQUAL SHALL ONLY BE USED. FOR MECHANICALLY RESTRAINING PIPE BELL JOINTS, US PIPE FIELD-LOK GASKETS OR APPROVED EQUAL SHALL BE USED.
- 6. FIRE HYDRANT ASSEMBLY SHALL BE MUELLER CENTURION MDL A-423 CONFORMING TO AWWA STANDARD C502, LATEST REVISIONS. GATE VALVES FOR HYDRANTS ARE TO BE APPROVED RESILIENT WEDGE GATE VALVES ONLY. HYDRANTS ARE TO BE YELLOW AND THE DEPTH OF BURY IS TO BE DETERMINED IN THE FIELD. SEE STANDARD DETAIL 501.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER SEPARATION BETWEEN SANITARY SEWER LINES AND WATERLINES AS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AND STATE DEPARTMENT OF HEALTH. SEE STANDARD DETAIL 510.
- 8. DIRECT-BURIED LINE VALVES OF 12" SIZE AND LARGER SHALL BE BUTTERFLY VALVES. ALL SMALLER, DIRECT-BURIED LINE VALVES SHALL BE RESILIENT WEDGE GATE VALVES. ALL VALVES SHALL BE DESIGNED TO AWWA SPECIFICATIONS AND SHALL HAVE A STANDARD 2" SQUARE-OPERATING NUT UNLESS OTHERWISE SHOWN ON PLANS. ALL VALVES SHALL BE DESIGNED FOR AT LEAST 150 PSI WORKING PRESSURE AND SHALL OPEN COUNTER CLOCKWISE.
- 9. ALL WATERLINES SHALL BE THOROUGHLY FLUSHED AND CHLORINATED. ALL FILLING, FLUSHING AND TESTING OF NEW WATERLINE FACILITIES SHALL BE DONE THROUGH A 6" DOUBLE CHECK DEVICE. THE CITY OF GRESHAM MAY PROVIDE 6" DOUBLE CHECK DEVICE, BUT IF UNAVAILABLE, CONTRACTOR SHALL SUPPLY DEVICE. THE CONTRACTOR SHALL INSTALL TEMPORARY BLOW-OFF(S) AND AND FILL POINT(S) PER DETAIL 506 A,B, & C AS REQUIRED. A POTABLE WATER TEST SHALL BE APPROVED BY AN OREGON STATE DEPARTMENT OF HUMAN SERVICES AND CITY OF GRESHAM APPROVED LABORATORY PRIOR TO ANY METERED SERVICE HOOKUP OR CONNECTION TO THE EXISTING WATER SYSTEM.
- 10. ALL BOLTED CONNECTIONS SHALL RECEIVE A COATING OF "SPRAY-ON UNDERCOATING" OR APPROVED EQUAL.
- 11. ALL BRASS AND COPPER SHALL BE "LEAD FREE" AND MEET NSF/ANSI 61 ANNEX F,G AND NSF/ANSI 372 SPECIFICATIONS.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

- 1. THE OWNER/PERMITTEE, OR EPSC MANAGER, SHALL BE RESPONSIBLE FOR PROPER INSTALLATION, MONITORING, MAINTENANCE, AND REMOVAL OF ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH THE CITY, STATE, AND FEDERAL REGULATIONS. RESPONSIBILITY WILL CONTINUE UNTIL PERMANENT VEGETATION OR LANDSCAPE IS COMPLETE. OWNER/PERMITTEE SHALL BE RESPONSIBLE FOR MAINTENANCE UNTIL THE FOLLOWING CONDITIONS ARE MET: 1) THE PROJECT HAS BEEN ACCEPTED BY THE CITY;
- 2. APPROVAL OF THE PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OR ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES).
- 3. THE EPSC BMPS SHOWN ON THE PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, IN ACCORDANCE WITH THE CONDITIONS OF APPROVAL, PUBLIC WORKS STANDARDS, DEVELOPMENT CODE, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT, SEDIMENT-LADEN WATER, AND OTHER POLLUTANTS DO NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS.
- 4. THE EPSC BMPS SHOWN ON THE PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE BMPS SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- 5. THE EPSC BMPS SHALL BE INSPECTED DAILY DURING STORMWATER AND SNOWMELT RUNOFF AND AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT THAT PRODUCES AT LEAST ½ OF AN INCH OF RAIN PER 24-HOUR PERIOD. ON INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, INSPECTIONS ARE REQUIRED EVERY TWO (2) WEEKS.
- 6. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN ONE-THIRD THE HEIGHT OF ANY SEDIMENT CONTROL BARRIER. TRAPPED SEDIMENTS SHALL BE REMOVED FROM CATCH BASINS WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PROJECT FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH OR INTENTIONALLY WASH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM STORMWATER SYSTEM, STREAMS OR DRAINAGEWAYS.
- 7. SEDIMENT THAT LEAVES THE SITE SHALL BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE OR PROPERLY DISPOSED. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO REQUIREMENTS OF THE U.S. ARMY CORPS OF ENGINEERS AND THE OREGON DEPARTMENT OF STATE LANDS.
- 8. STORM DRAIN INLETS, CATCH BASINS, AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- 9. CONCRETE WASHOUT LOCATION SHALL BE PROVIDED FOR WASHING OF CONCRETE TRUCKS AND EQUIPMENT SO THAT CONCRETE SLURRY IS NOT WASHED INTO THE STORMWATER SYSTEM, STREAMS, OR DRAINAGEWAYS. IDENTIFY THE LOCATION ON THE PLAN AND INCLUDE THE NOTE: "DO NOT OVERFILL AND BURY WHEN FINISHED."
- 10. GROUNDCOVER AND/OR SEEDING SHALL BE COMPLETED AS SOON AS PRACTICABLE FOR EACH PHASE OF CONSTRUCTION AND NOT LATER THAN SEPTEMBER 1. IF FERTILIZERS ARE USED TO ESTABLISH VEGETATION, THE APPLICATION RATES SHALL FOLLOW MANUFACTURER'S GUIDELINES AND THE APPLICATION SHALL BE PERFORMED IN SUCH A WAY TO MINIMIZE NUTRIENT-LADEN RUNOFF TO RECEIVING WATERS. THE PLAN SHALL STATE THE CONDITIONS FOR DETERMINING SUCCESSFUL VEGETATION ESTABLISHMENT.
- 11. NON-STORMWATER POLLUTANT CONTROL MEASURES INCLUDING ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS SHALL INCLUDE PROPER STORAGE, SPILL CONTAINMENT, APPLICATION, AND DISPOSAL.
- 12. WET WEATHER MEASURES SHALL BE ESTABLISHED BY OCTOBER 1ST AND CONTINUE TO FUNCTION THROUGH MAY 31ST OF THE FOLLOWING YEAR. PRIOR TO DISCONTINUING ACTIVITIES ON ANY PORTION OF THE SITE BETWEEN OCTOBER 1 AND MAY 31, ANY EXPOSED AREA SHALL BE STABILIZED WITHIN 7 DAYS TO PREVENT EROSION. BETWEEN JUNE 1 AND SEPTEMBER 30, THE SITE MUST BE STABILIZED WITHIN 30 DAYS. STABILIZATION MAY OCCUR BY APPLYING APPROPRIATE COVER (E.G., MULCH, EROSION CONTROL BLANKETS, BINDERS, TACKIFIERS) OR ESTABLISHING ADEQUATE VEGETATIVE COVER.
- 13. PRIOR TO FINAL PROJECT ACCEPTANCE BY THE CITY, THE SITE SHALL BE PERMANENTLY STABILIZED (SEED AND MULCH OR TACKIFIER, OR PERMANENT LANDSCAPING). SEE APPENDIX F: CITY OF GRESHAM NATIVE PLANT RESTORATION GUIDE AS A RESOURCE. FOR SUBDIVISIONS, TEMPORARY GROUNDCOVER WILL BE ACCEPTED IF HOME CONSTRUCTION WILL BEGIN WITHIN 30 DAYS OF PROJECT FINALIZATION.
- 14. THE OWNER/PERMITTEE IS RESPONSIBLE FOR REMOVING ALL SEDIMENT CONTROL MEASURES ONCE PERMANENT STABILIZATION HAS BEEN ESTABLISHED.

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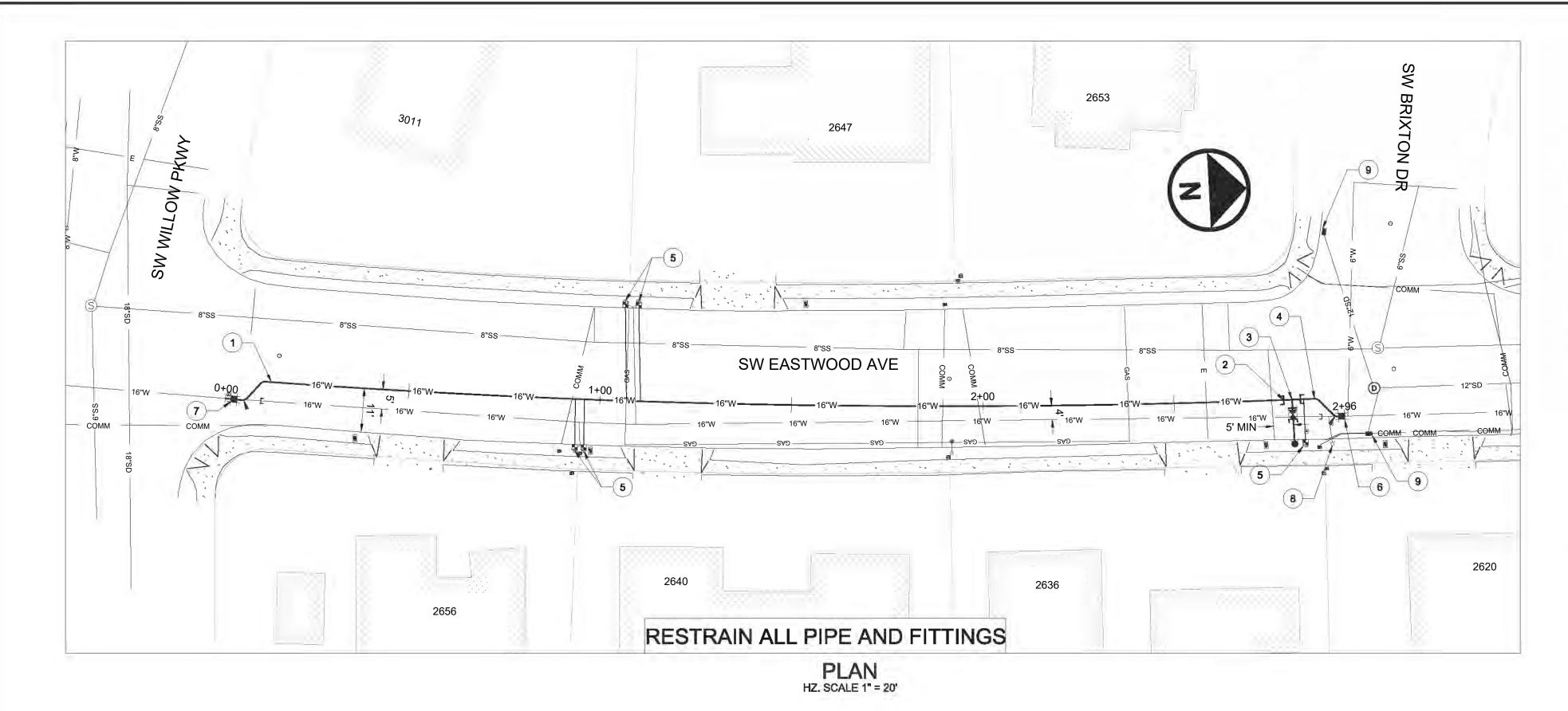
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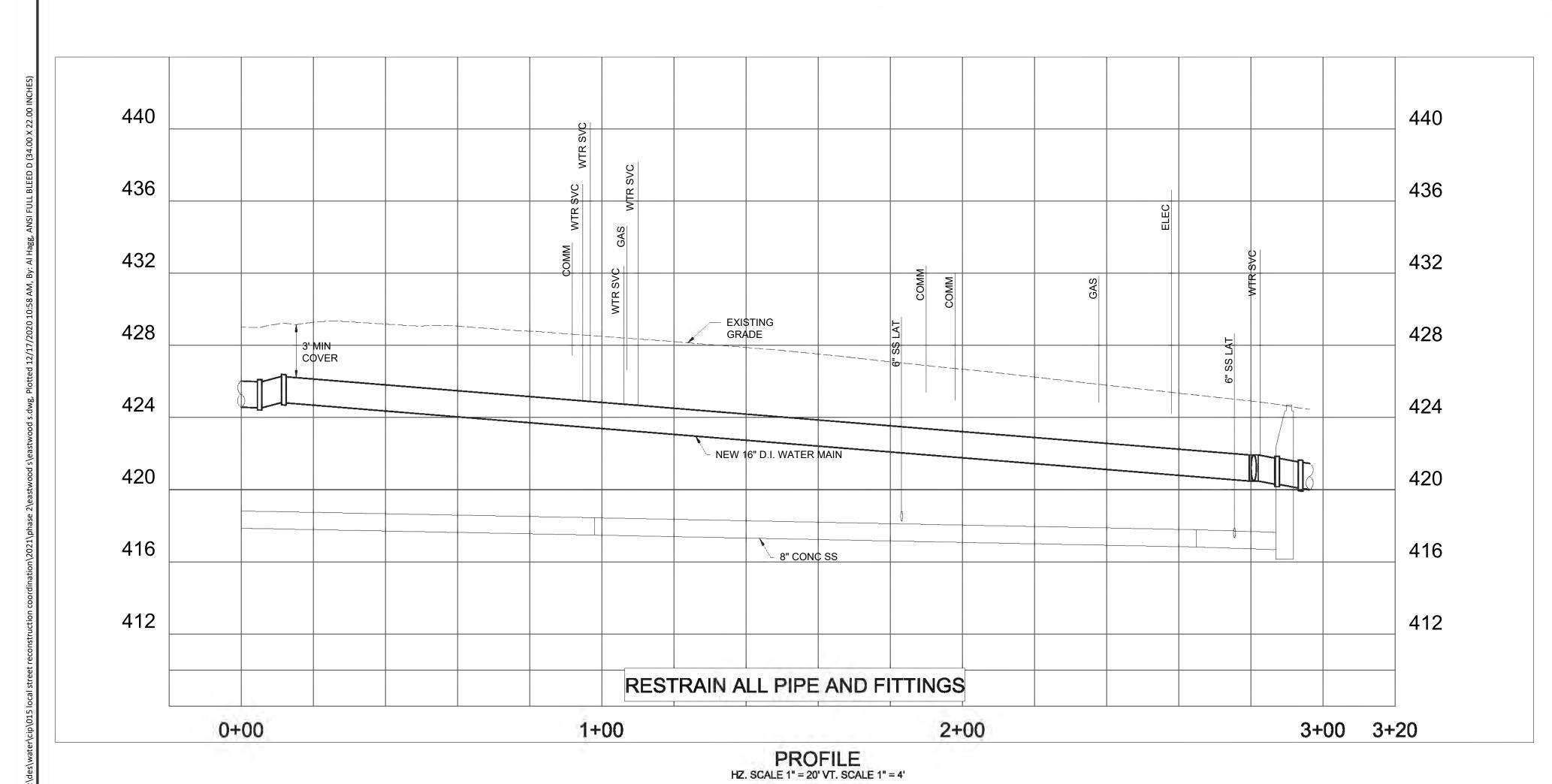
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The City of Gresham shall not be responsible for any errors or omissions s. All information MUST BE FIELD VERIFIED to substantiate its validity
TERLINE REPLACEMENT FOR LOCAL ST IMPROV. PHASE II
ID NOTES

ENT OF ENVIRONMENTAL EASTMAN PARKWAY , OREGON 97030-3813

GRESHAN





- INSTALL 6" TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C. INSTALL NEW 16" D.I. WATER MAIN TO THE NORTH. BEGIN HORIZONTAL DEFLECTION.
- 2 STA 2+77 END HORIZONTAL DEFLECTION.
- INSTALL 16" x 6" MJ x FLG TEE. INSTALL FIRE HYDRANT ASSEMBLY PER STD DWG 501.
- STA 2+87
 INSTALL 6" TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C. FLUSH, PRESSURE TEST, AND CHLORINATE NEWLY INSTALLED WATER MAIN.
- STA 0+95

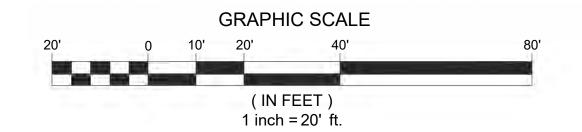
 - AFTER TESTING AND ACCEPTANCE, INSTALL 1" WATER SERVICE PER STD DWG 502. CITY TO STAKE FINAL LOCATION AT TIME OF CONSTRUCTION.
- STA 2+96
 AFTER TESTING AND ACCEPTANCE, REMOVE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 5. CUT, CAP,
 AND BRACE THE EXISTING 16" WATER MAIN TO THE SOUTH. CONNECT NEWLY INSTALLED WATER MAIN TO
 EXISTING WATER MAIN WITH: [2] 16" 45° MJ BENDS, [1] 16" MJ SLEEVE.
- STA 0+00
 AFTER TESTING AND ACCEPTANCE, REMOVE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 1. CONNECT NEWLY INSTALLED WATER MAIN TO EXISTING WATER MAIN WITH: [2] 16" 45° MJ BENDS, [1] 16" MJ SLEEVE. AFTER ALL SERVICES HAVE BEEN TRANSFERRED, ABANDON THE EXISTING WATER MAIN TO THE SOUTH.
- 8 STA 2+93 REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND RETURN TO CITY.
- (9) INSTALL INLET PROTECTION PER SECTION EPSC-8A OF THE EPSC MANUAL.

NOTE: FOR TESTING USE 6" TEMPORARY BLOWOFF PER STD DWG 506C.

NOTE: USE 250 PSI RATED BUTTERFLY VALVE ASSEMBLIES.

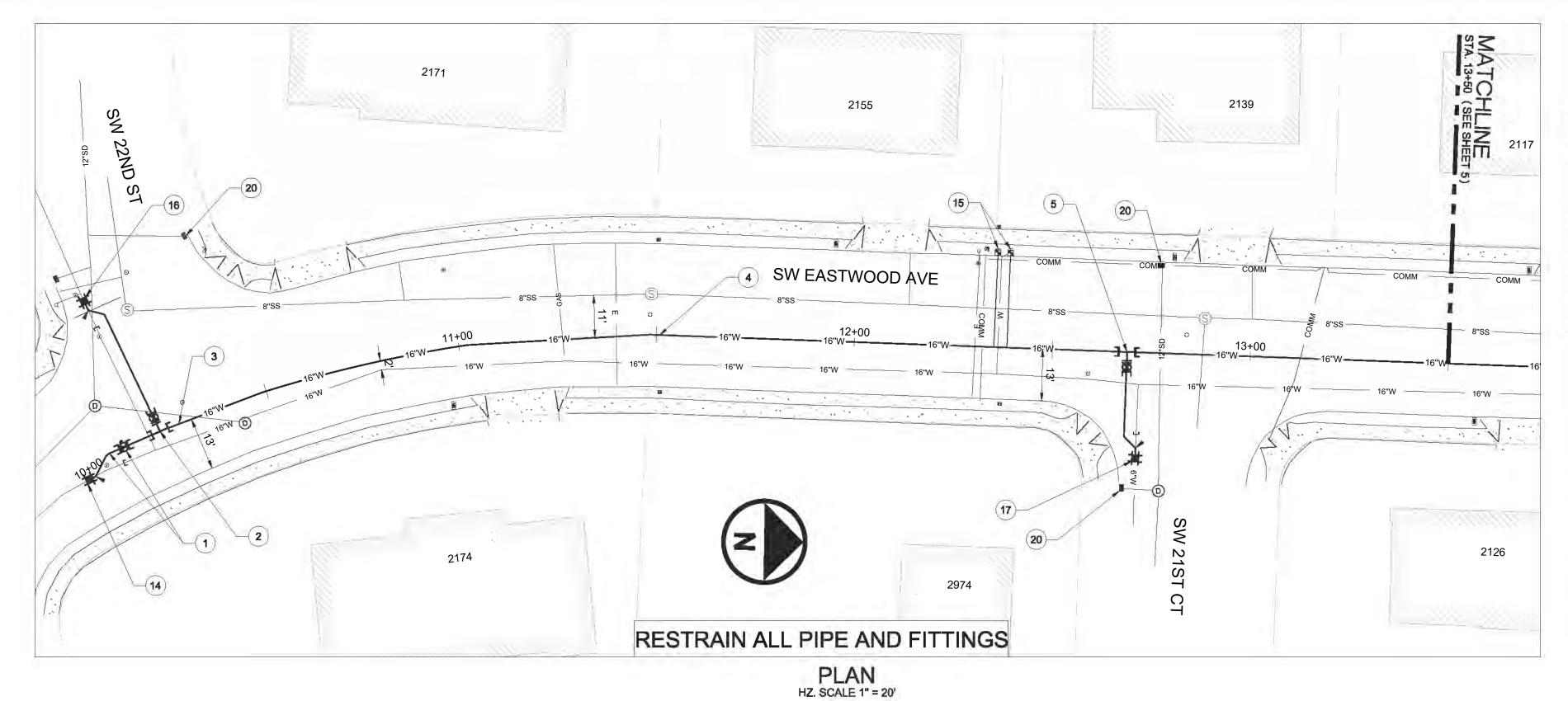
SURFACE RESTORATION SCHEDULE:

TEMPORARY ASPHALT ONLY. FINAL SURFACE RESTORATION BY SEPARATE CONTRACT



2020 7T015 RANGE	100 MINISTER	95305	by andry	OREGON	A HOND LAND	EVELOPES: 19 /91 /2021
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238	12/2	/	/	
2020 ح	WT015		RANGE	3E
NOVEMBER 2020	PROJECT NO.: CIP NO. WT015	LEGAL	SECTION TOWNSHIP	18
DATE:	PROJECT		SECTION	11



1 STA 10+10 INSTALL 6" TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C. INSTALL 16" MJ BUTTERFLY VALVE. ENSURE ADEQUATE OPERATIONAL SPACE BETWEEN VALVE AND BLOW-OFF ASSEMBLY. INSTALL 6" D.I. WATER MAIN TO THE NORTH.

INSTALL 16" x 8" MJ x FLG TEE, 8" MJ x FLG GATE VALVE (W)

(3) STA 10+22

BEGIN HORIZONTAL DEFLECTION.

END HORIZONTAL DEFLECTION.

(4) STA 11+50

5 STA 12+66

INSTALL 16" x 6" MJ x FLG TEE, 6" MJ x FLG GATE VALVE (E) . INSTALL TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C.

14 STA 10+00 AFTER TEST AFTER TESTING AND APPROVAL, REMOVE THE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 1. CUT, CAP AND BRACE THE EXISTING WATER MAIN TO THE NORTH. CONNECT NEWLY INSTALLED WATER MAIN TO EXISTING WATER MAIN WITH: [2] 16" 45° MJ BENDS, [1] 16" MJ SLEEVE.

15 STA 12+34

STA 12+37 AFTER TESTING AND ACCEPTANCE, INSTALL 1" WATER SERVICE PER STD DWG 502. CITY TO STAKE FINAL LOCATION AT TIME OF CONSTRUCTION.

(16) STA 10+20

AFTER TESTING AND ACCEPTANCE, CUT, CAP AND BRACE THE EXISTING WATER MAIN TO THE EAST.
REMOVE THE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 2 AND CONNECT NEWLY INSTALLED WATER
MAIN TO EXISTING WATER MAIN WITH: [2] 8" 45° MJ BENDS, [1] 8" MJ SLEEVE, ± 45 LF 8" D.I. PIPE.

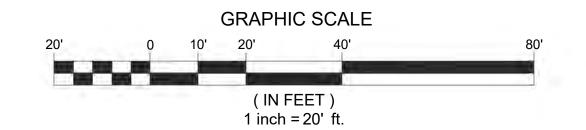
AFTER TESTING AND ACCEPTANCE, CUT, CAP AND BRACE THE EXISTING WATER MAIN TO THE WEST.
REMOVE THE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 5 AND CONNECT NEWLY INSTALLED WATER
MAIN TO EXISTING WATER MAIN WITH: [2] 6" 45° MJ BENDS, [1] 6" MJ SLEEVE, ± 30 LF 6" D.I. PIPE.

(20) INSTALL INLET PROTECTION PER SECTION EPSC-8A OF THE EPSC MANUAL.

NOTE: USE 250 PSI RATED BUTTERFLY VALVE ASSEMBLIES.

SURFACE RESTORATION SCHEDULE:

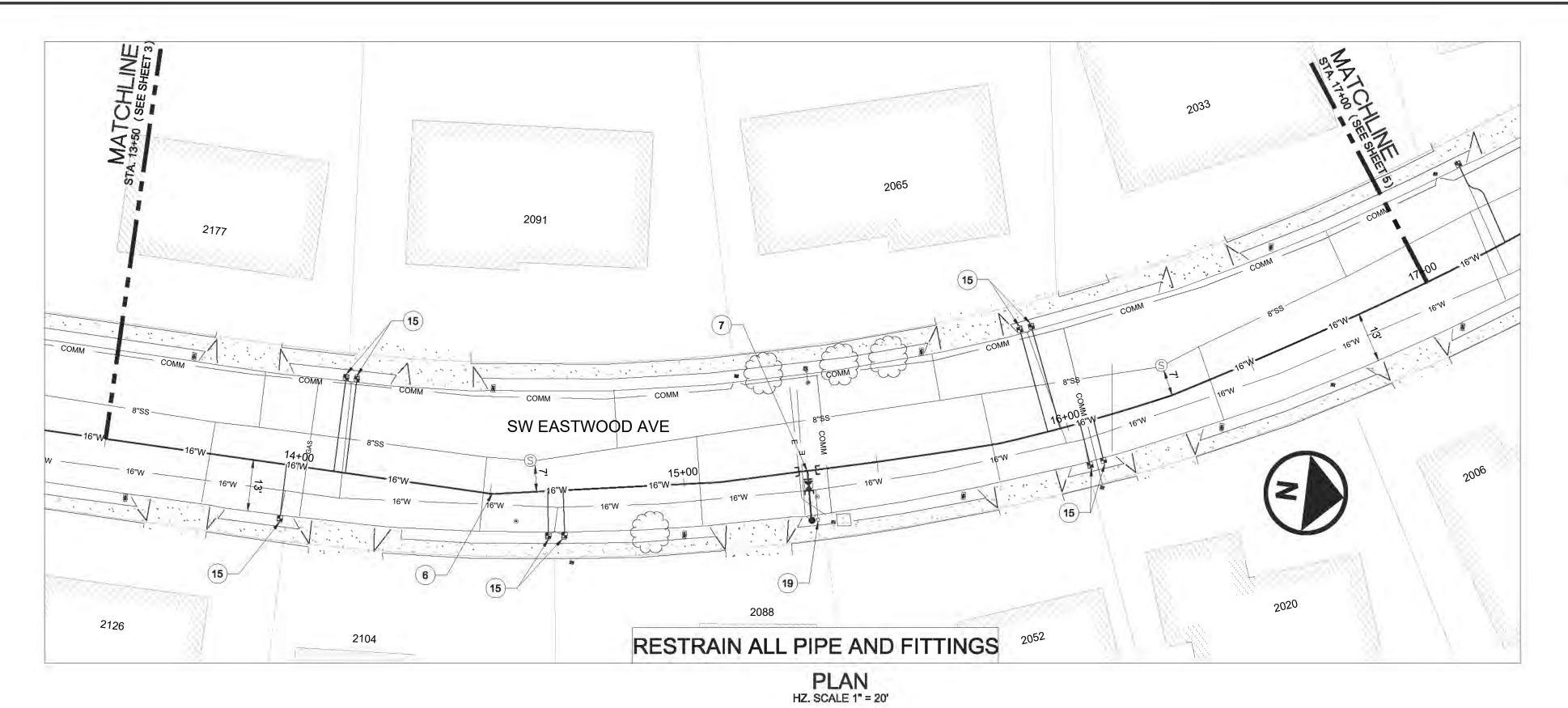
TEMPORARY ASPHALT ONLY. FINAL SURFACE RESTORATION BY SEPARATE CONTRACT



CRESHAM

380		8" WTR			GAS	ELEC							
376		'CLR 1'CLR		3' MII COVI	N ER		EXISTING GRADE			COMM			
572			NEW 16" D	O.I. WATER MAIN						ELEC			MAT STA. 13+
68				8.	" CONC SS					WTR SVC	50	<u></u>	CHLINE (SEE SHEET 5)
64												SS "8	T5)
60												'CLR	
56													
52													1
48					RESTI	RAIN ALL	. PIPE A	ND FITT	TINGS				
	10+00			11+00	<u> </u>			12	+00		 	13+00	

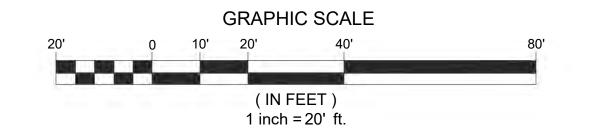
HZ. SCALE 1" = 20' VT. SCALE 1" = 4'



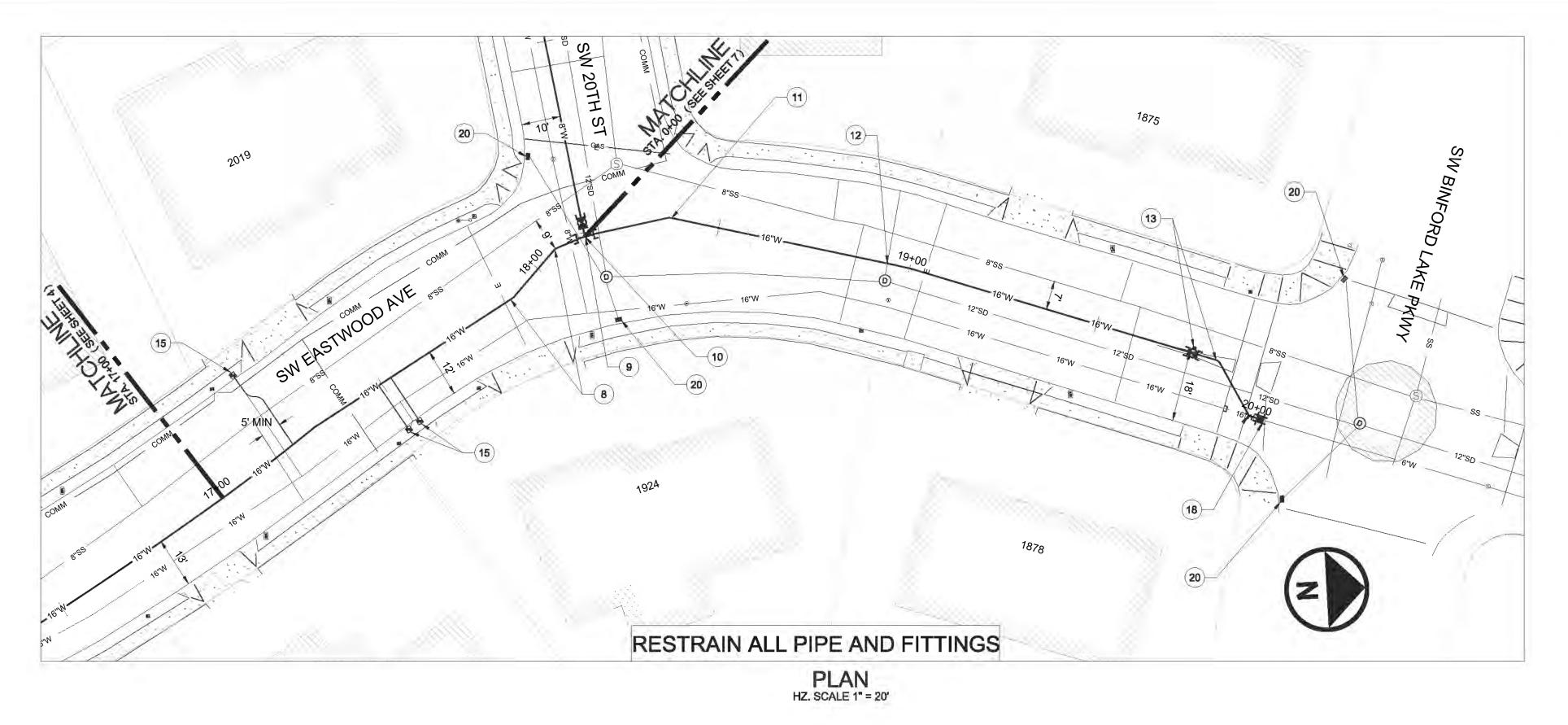
- 6 STA 14+51 INSTALL [1] 16" 11.25° MJ BEND.
- 7 STA 15+32 INSTALL 16" x 6" MJ x FLG TEE. INSTALL FIRE HYDRANT ASSEMBLY PER STD DWG 501. BEGIN HORIZONTAL DEFLECTION TO NORTH.
- STA 13+97
 STA 14+09
 STA 14+12
 STA 14+65
 STA 14+69
 STA 15+94
 STA 15+98
 STA 16+04
 STA 16+07
 AFTER TESTING AND ACCEPTANCE, INSTALL 1" WATER SERVICE PER STD DWG 502. CITY TO STAKE FINAL LOCATION AT TIME OF CONSTRUCTION.
- 19 STA 15+34 REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND RETURN TO CITY.

SURFACE RESTORATION SCHEDULE:

TEMPORARY ASPHALT ONLY. FINAL SURFACE RESTORATION BY SEPARATE CONTRACT



		14+00	0			15+00			16	+00		17+00
332	j				RESTR	RAIN ALL P	IPE AND	FITTINGS				
36	1											
40	MATCHLII STA. 13+50 (SEE S							8" CONC S	SS			
44	SE SHEET 3)							NEW 16"	D.I. WATER MAIN			
48			1.5' MIN						5, 9		6" SS LAT	[5)
52			3' M		EXISTING GRADE	6" SS LAT	COMIN		SS LAT WTR SVC WTR SVC	COMM	⊢ †	CHLINE
56	6" SS LAT	WTR	WTR SVC WTR SVC	LAT	WTR SVC					WTR SVC		MATCH STA. 17+00 (S
60		SVC	<u>υ</u> ೪				ELEC					
64	1											



348 COVER EXISTING GRADE 340 NEW 16" D.I. WATER MAIN 336 8" CONC SS 332 1.5' MIN 328 324 320

RESTRAIN ALL PIPE AND FITTINGS

PROFILE
HZ. SCALE 1" = 20' VT. SCALE 1" = 4'

18+00

19+00

17+00

INSTALLATION SCHEDULE

- - END HORIZONTAL DEFLECTION. INSTALL [2] 16" 22.5° MJ BENDS.

 - INSTALL 16" x 8" MJ x FLG TEE, 8" MJ x FLG GATE VALVE (W) . INSTALL TEMPORARY BLOW-OFF ASSEMBLY
- (10) STA 18+14 OF SW EASTWOOD N ALIGNMENT IS STA 0+00 OF SW 20TH ALIGNMENT.
- INSTALL 16" x 22.5° MJ BEND.
- STA 18+95
 USE CDF AS BACKFILL BETWEEN PROPOSED WATER MAIN AND EXISTING STORM DRAIN. INSTALL [2] 16"
 11.25° MJ VERTICAL BENDS.
- INSTALL 16" MJ BUTTERFLY VALVE. INSTALL 6" TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C.
- ENSURE ADEQUATE OPERATIONAL SPACE BETWEEN VALVE AND BLOW-OFF ASSEMBLY. FLUSH, PRESSURE TEST, AND CHLORINATE NEWLY INSTALLED WATER MAIN.
- - STA 17+49 AFTER TESTING AND ACCEPTANCE, INSTALL 1" WATER SERVICE PER STD DWG 502. CITY TO STAKE FINAL LOCATION AT TIME OF CONSTRUCTION.

20+00

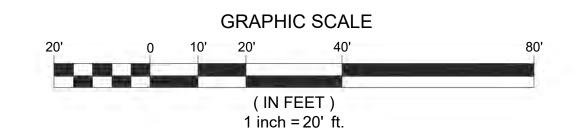
- AFTER TESTING AND ACCEPTANCE, REMOVE THE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 12. CUT, CAP AND BRACE THE EXISTING WATER MAIN TO THE SOUTH. CONNECT NEWLY INSTALLED WATER MAIN TO EXISTING WATER MAIN WITH: [2] 16" 45° MJ BENDS, [1] 16" MJ SLEEVE. USE CDF AS BACKFILL BETWEEN PROPOSED WATER MAIN AND EXISTING STORM DRAIN.
- (20) INSTALL INLET PROTECTION PER SECTION EPSC-8A OF THE EPSC MANUAL.

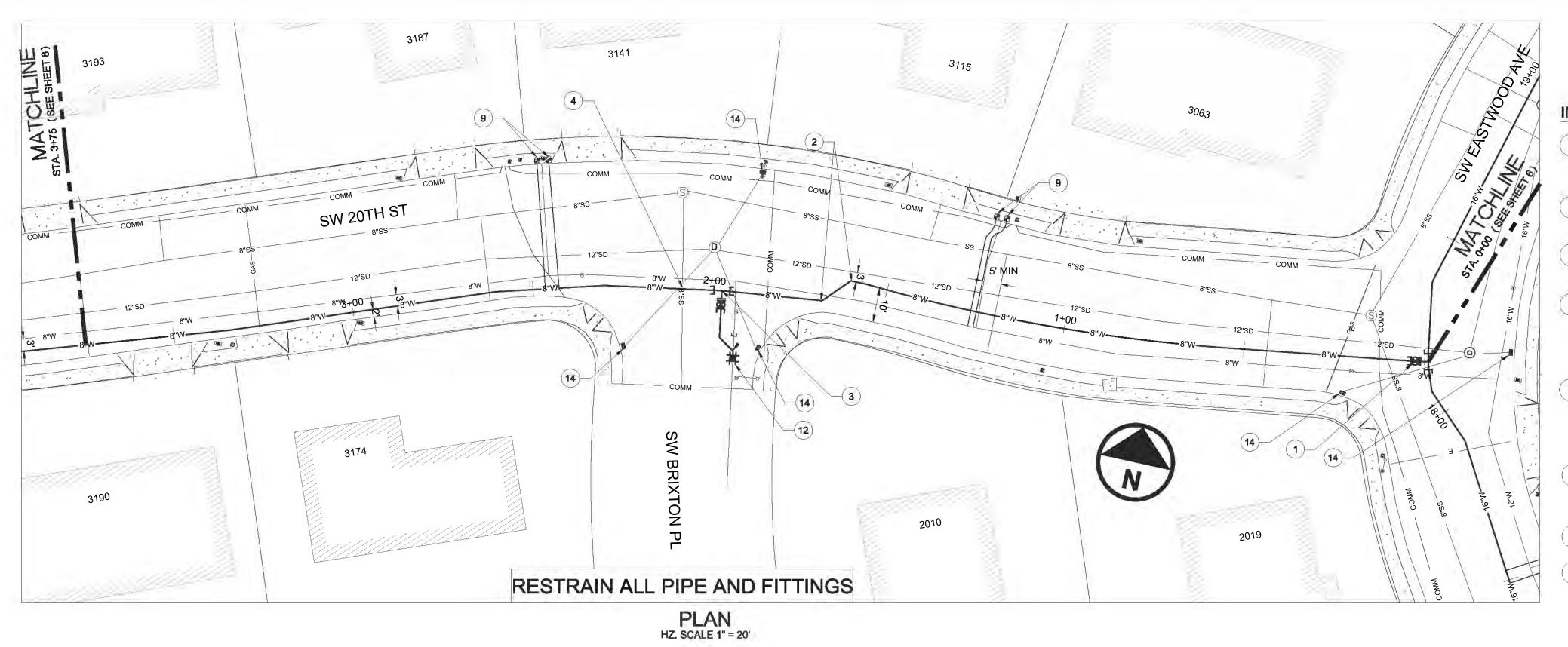
NOTE: FOR TESTING USE 6" TEMPORARY BLOWOFF PER STD DWG 506C.

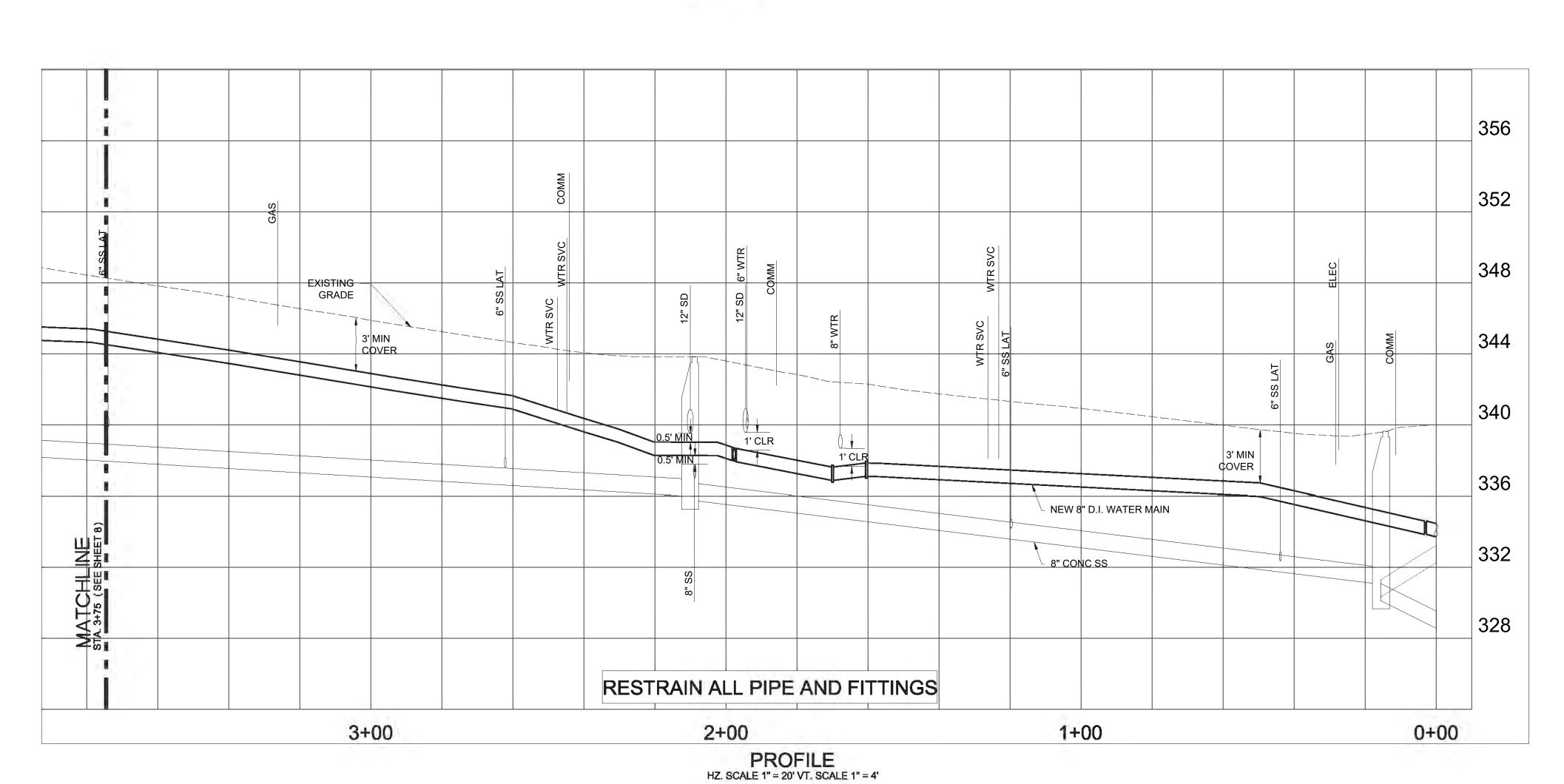
NOTE: USE 250 PSI RATED BUTTERFLY VALVE ASSEMBLIES.

SURFACE RESTORATION SCHEDULE:

TEMPORARY ASPHALT ONLY. FINAL SURFACE RESTORATION BY SEPARATE CONTRACT







STA 0+02
STA 0+00 OF SW 20TH ALIGNMENT IS STA 18+14 OF SW EASTWOOD N ALIGNMENT. REMOVE
TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 9, SHEET 6. INSTALL 8" DI WATER MAIN WEST
FROM GATE VALVE OF NOTE 9, SHEET 6. BEGIN HORIZONTAL DEFLECTION.

2 STA 1+60 STA 1+70 INSTALL 8" 45° MJ BEND.

3 STA 1+98
INSTALL 8" x 6" MJ x FLG TEE, 6" MJ x FLG GATE VALVE (S) . INSTALL TEMPORARY BLOW-OFF
ASSEMBLY PER STD DWG 506C.

4 STA 2+09
LINE EXISTING SANITARY MAIN IN 10' BOTH DIRECTIONS FROM THE NEWLY INSTALLED WATER
MAIN CROSSING (BY OTHERS). WATER MAIN CANNOT BE MADE LIVE UNTIL SANITARY MAIN
LINING IS COMPLETE. CENTER PROPOSED WATER MAIN STICK OVER EXISTING SANITARY LINE.
USE CDF AS BACKFILL BETWEEN PROPOSED WATER MAIN AND EXISTING STORM DRAIN AND
SANITARY MAIN CROSSING.

9 STA 1+22 STA 1+26 STA 2+44 STA 2+47 AFTER TESTING AND ACCEPTANCE, INSTALL 1" WATER SERVICE PER STD DWG 502. CITY TO STAKE FINAL LOCATION AT TIME OF CONSTRUCTION.

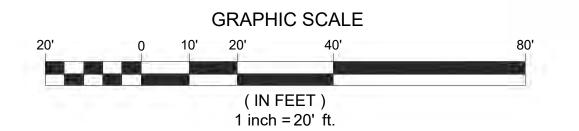
STA 1+98
AFTER TESTING AND ACCEPTANCE, REMOVE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 3.
CONNECT NEWLY INSTALLED WATER MAIN TO EXISTING WATER MAIN WITH: [2] 6" 45° MJ
BENDS, [1] 6" MJ SLEEVE, ± 25 LF 6" D.I. PIPE.

AFTER ALL IN USE WATER SERVICES HAVE BEEN TRANSFERRE, ABANDON THE EXISTING WATER MAINS IN SW 20TH STREET AND SW EASTWOOD AVENUE.

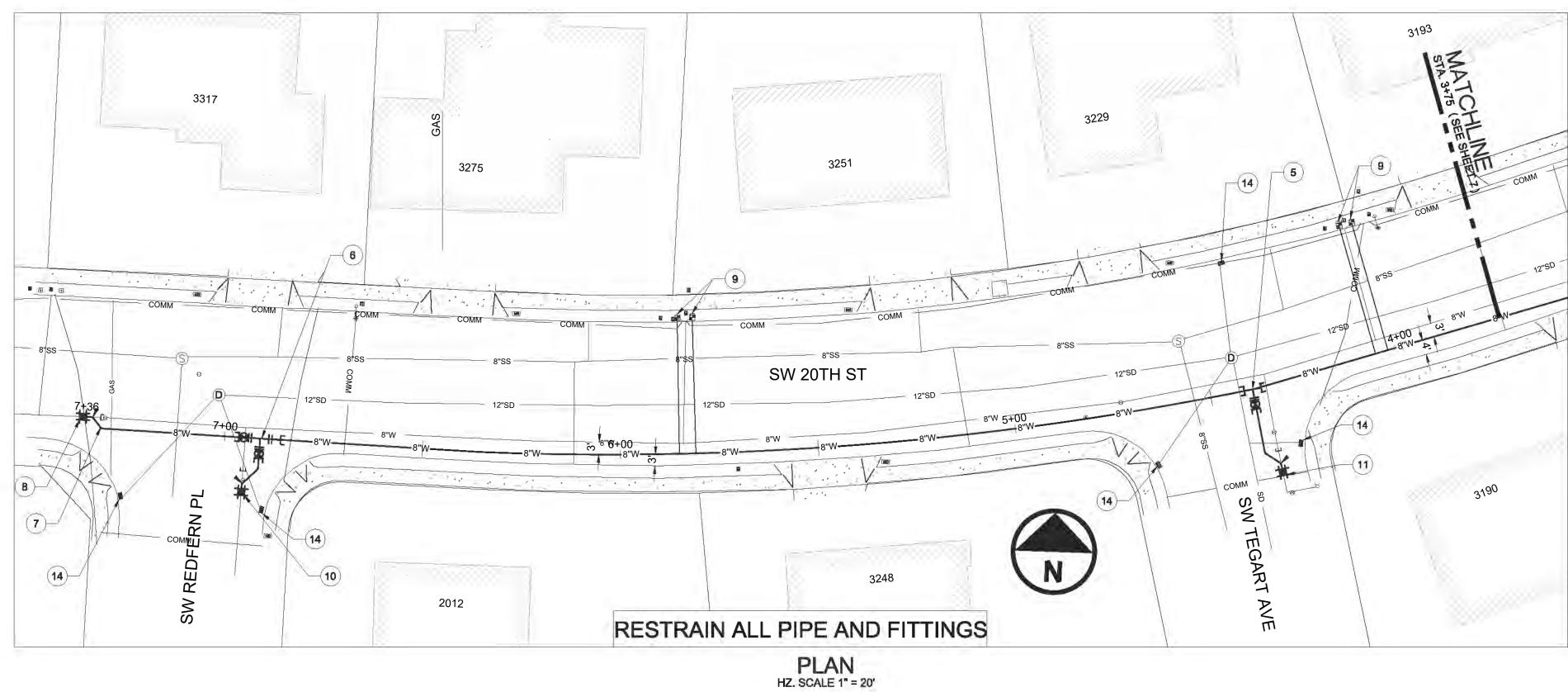
(14) INSTALL INLET PROTECTION PER SECTION EPSC-8A OF THE EPSC MANUAL.

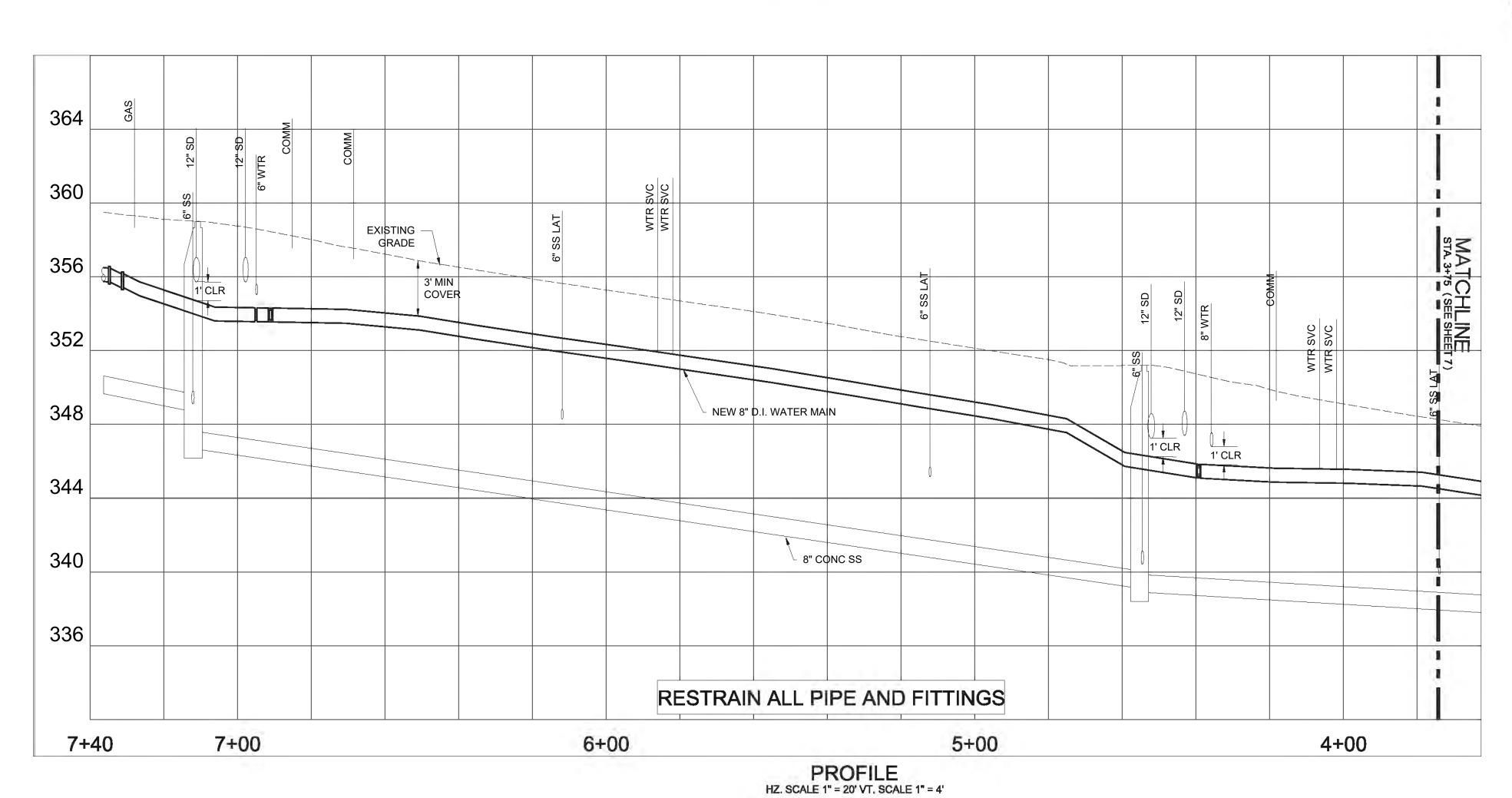
SURFACE RESTORATION SCHEDULE:

TEMPORARY ASPHALT ONLY. FINAL SURFACE RESTORATION BY SEPARATE CONTRACT



		The information shown was prepared for use by the City of Gresham and for no	VERT: 1"=4'	Bank Bank	DATE NO.	REVISION	ВУ
		other purpose. The City of Gresham shall not be responsible for any errors or omissions	SCALE HORIZ: 1"=20'				
		I used by others. All illigitiation from the principle of substantiate its validity.	DATE: NOVEMBER 2020	10/2 Con 10 10 10 10 10 10 10 10 10 10 10 10 10			
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	1333 N.W. EASTMAN PARKWAY		PROJECT NO.: CIP NO. WT015	Wedy andrya			
「人人」 「人人」	GRESHAM, OREGON 97030-3813	SHEET NAME: SW 20TH ST PLAN AND PROFILE 1	LEGAL	OREGON OF	DESIGNED: ARH	THE LEGISLATION OF THE PERSON	
	503-618-2525	LOCATION:	SECTION TOWNSHIP RANGE	ALTON RELEASED AND ALTON	DRAWN: ARH		
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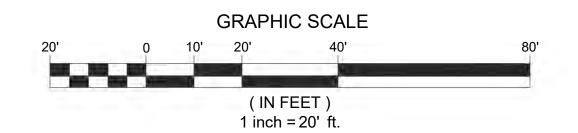




- STA 4+40
 INSTALL 8" x 8" MJ x FLG TEE, 8" MJ x FLG GATE VALVE (S) . INSTALL TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C.
- STA 6+92
 INSTALL 8" x 6" FLG TEE, [1] 8" MJ x FLG ADAPTOR (E) , 8" MJ x FLG GATE VALVE (W) , 6" MJ x FLG GATE VALVE (S) . INSTALL TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C.
- 7 STA 7+32 END HORIZONTAL DEFLECTION. INSTALL TEMPORARY BLOW-OFF ASSEMBLY PER STD DWG 506C. FLUSH, PRESSURE TEST, AND CHLORINATE THE NEWLY INSTALLED WATER MAIN.
- 8 STA 7+37
 AFTER TESTING AND ACCEPTANCE, CUT, CAP AND BRACE EXISTING WATER MAIN TO THE EAST. REMOVE
 TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 7 AND CONNECT NEWLY INSTALLED WATER MAIN TO EXISTING
 WATER MAIN WITH: [2] 8" 45° MJ BENDS, [1] 8" MJ SLEEVE.
- 9 STA 4+05
 STA 4+08
 STA 5+82
 STA 5+85
 AFTER TESTING AND ACCEPTANCE, INSTALL 1" WATER SERVICE PER STD DWG 502, CITY TO STAKE FINAL LOCATION AT TIME OF CONSTRUCTION.
- AFTER TESTING AND ACCEPTANCE, REMOVE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 6. CUT, CAP AND BRACE THE EXISTING WATER MAIN TO THE NORTH. CONNECT NEWLY INSTALLED WATER MAIN TO EXISTING WATER MAIN WITH: [2] 6" 45° MJ BENDS, [1] 6" MJ SLEEVE, ± 20 LF 6" D.I. PIPE.
- STA 4+40
 AFTER TESTING AND ACCEPTANCE, REMOVE TEMPORARY BLOW-OFF ASSEMBLY OF NOTE 5. CUT, CAP AND BRACE THE EXISTING WATER MAIN TO THE NORTH. CONNECT NEWLY INSTALLED WATER MAIN TO EXISTING WATER MAIN WITH: [2] 8" 45° MJ BENDS, [1] 8" MJ SLEEVE, ± 30 LF 6" D.I. PIPE.
- (14) INSTALL INLET PROTECTION PER SECTION EPSC-8A OF THE EPSC MANUAL.

SURFACE RESTORATION SCHEDULE:

TEMPORARY ASPHALT ONLY. FINAL SURFACE RESTORATION BY SEPARATE CONTRACT



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PLAN AND PROFILE 2

IN THE CITY OF GRESHA

SHEET NAME: SW 20TH ST PLAN AND PROFIL LOCATION:

RTMENT OF ENVIRONMENTAL SERV N.W. EASTMAN PARKWAY SHAM, OREGON 97030-3813