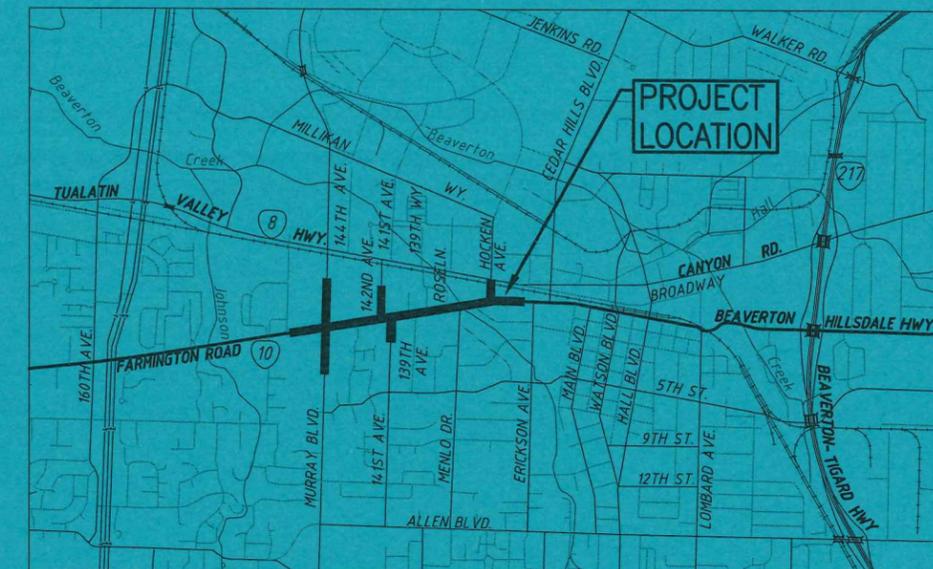


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 EC-02 EXISTING CONDITIONS - FARMINGTON ROAD - PLAN (STA. 7+60 TO 13+20)  
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 EC-04 EXISTING CONDITIONS - FARMINGTON ROAD - PLAN (STA. 18+80 TO 24+40)  
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VICINITY MAP  
N.T.S.

**RECEIVED**  
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PUBLIC TRANSPORTATION FACILITIES REVIEW

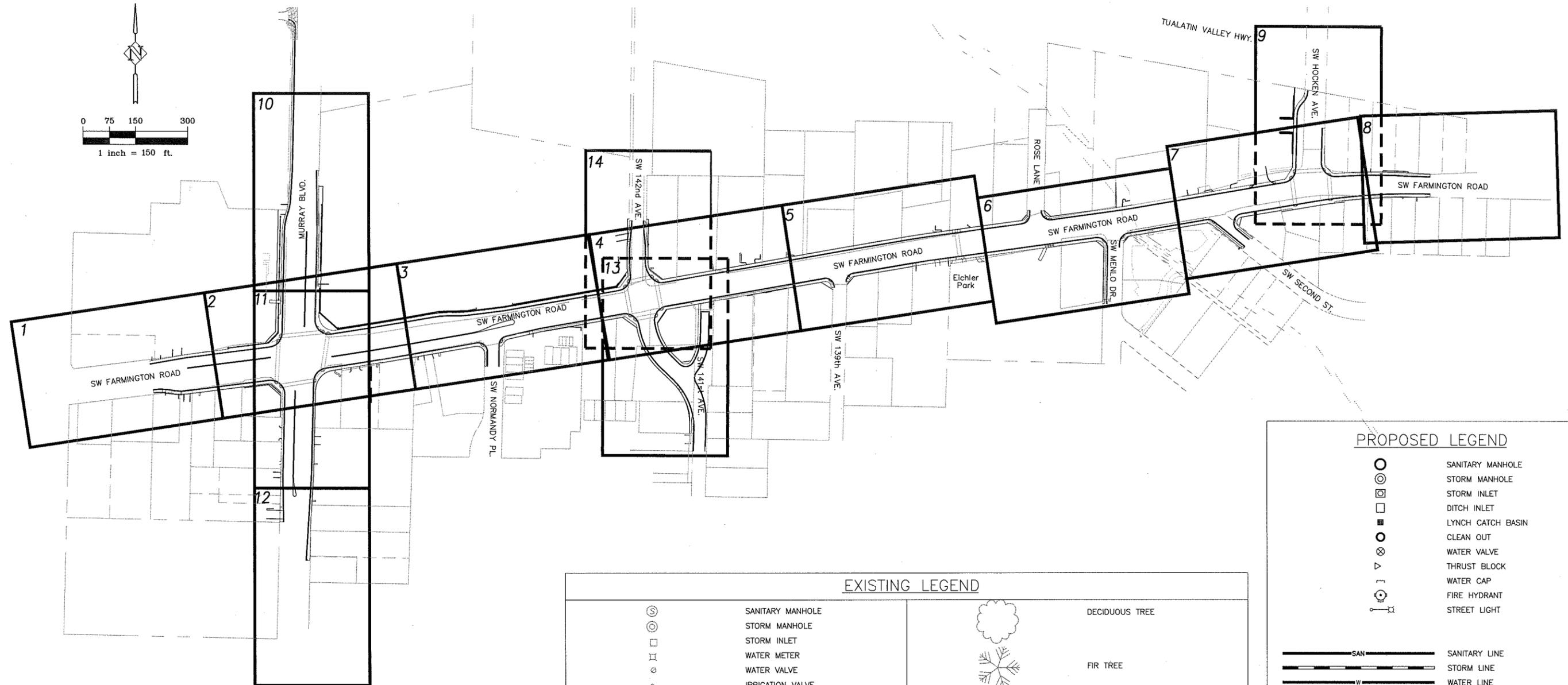
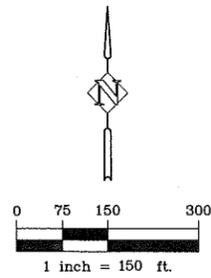
**FARMINGTON ROAD IMPROVEMENTS**

BEAVERTON, OREGON

P:\WAS-24\WAS24-DWG\SLand Use Sheets\WAS24-01-LANDUSE.dwg

NO.	REVISIONS

				<b>FARMINGTON ROAD TITLE SHEET</b> BEAVERTON, OREGON	
				DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM
DATE: OCTOBER 2013				PROJECT NUMBER: WAS-24	

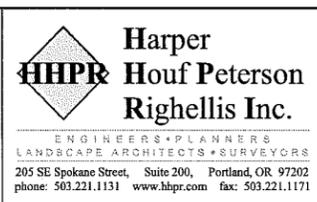


ABOVE INDEX FOR THE FOLLOWING PLANS ONLY:  
 EC-EXISTING CONDITIONS PLAN  
 SP-SITE PLAN  
 G-GRADING PLAN  
 U-UTILITY PLAN  
 L-LANDSCAPE PLAN  
 LP-LIGHTING PLAN

EXISTING LEGEND	
	SANITARY MANHOLE
	STORM MANHOLE
	STORM INLET
	WATER METER
	WATER VALVE
	IRRIGATION VALVE
	SPRINKLER HEAD
	FIRE HYDRANT
	GAS VALVE
	GAS METER
	TELEPHONE RISER
	T.V. RISER
	UTILITY POLE
	POWER VAULT
	BOLLARD
	SIGN
	SIGNAL POLE
	LUMINAIRE
	YARD LIGHT
	SIGNAL JUNCTION BOX
	SIGNAL CABINET
	MAILBOX
	DECIDUOUS TREE
	FIR TREE
	SANITARY LINE
	STORM LINE
	WATER LINE
	OVERHEAD POWER LINE
	GAS LINE
	TELEPHONE LINE
	FENCE
	DITCH
	EDGE OF PAVEMENT
	CURB
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	CONCRETE PAVEMENT
	A.C. PAVEMENT
	BUILDING

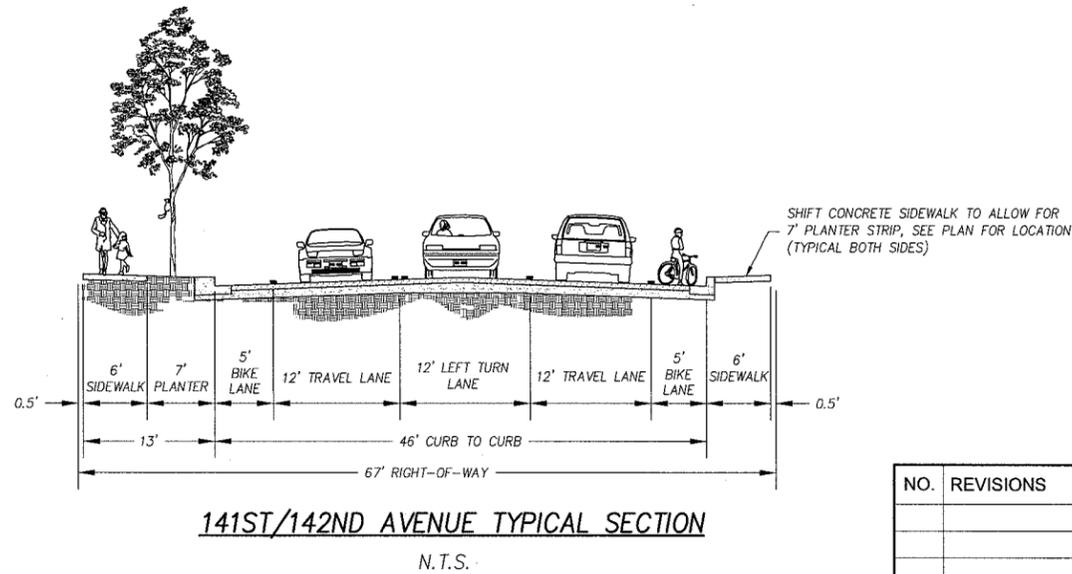
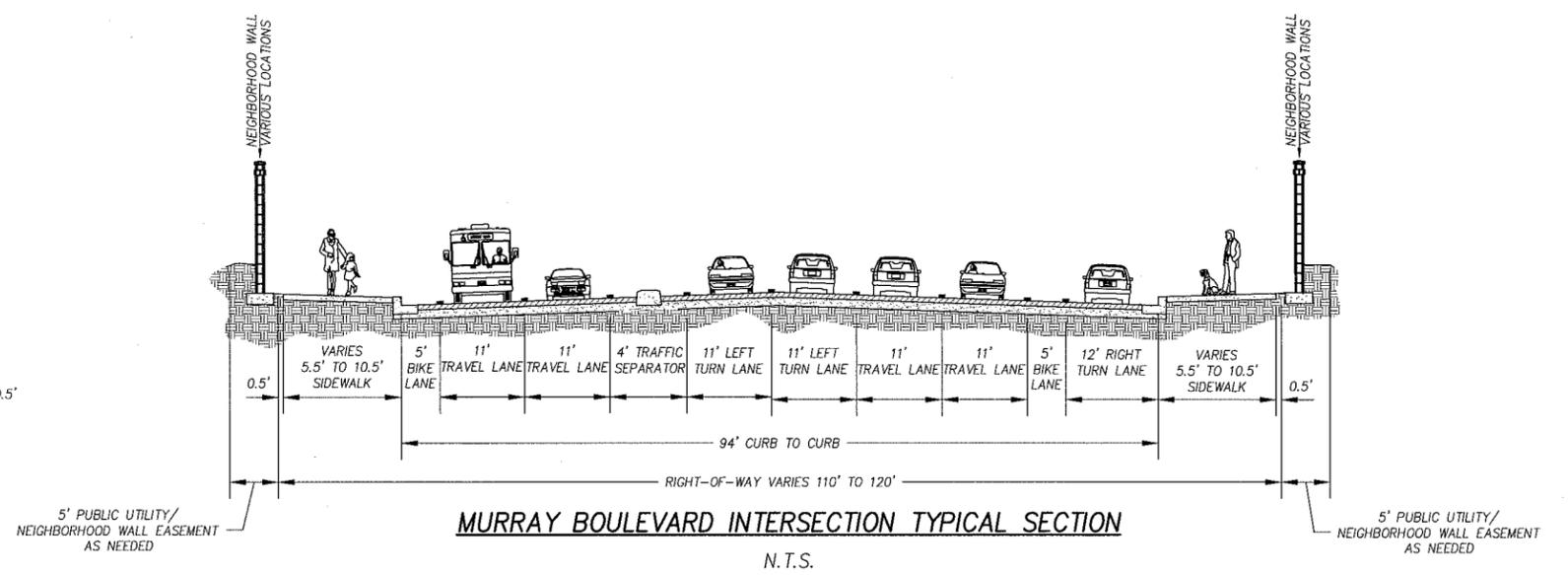
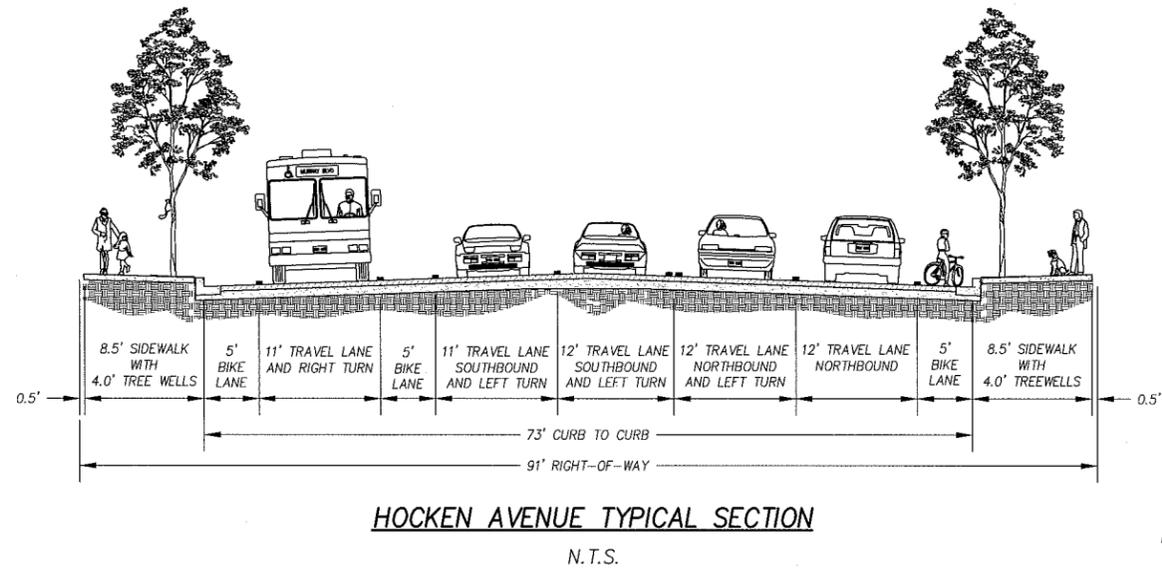
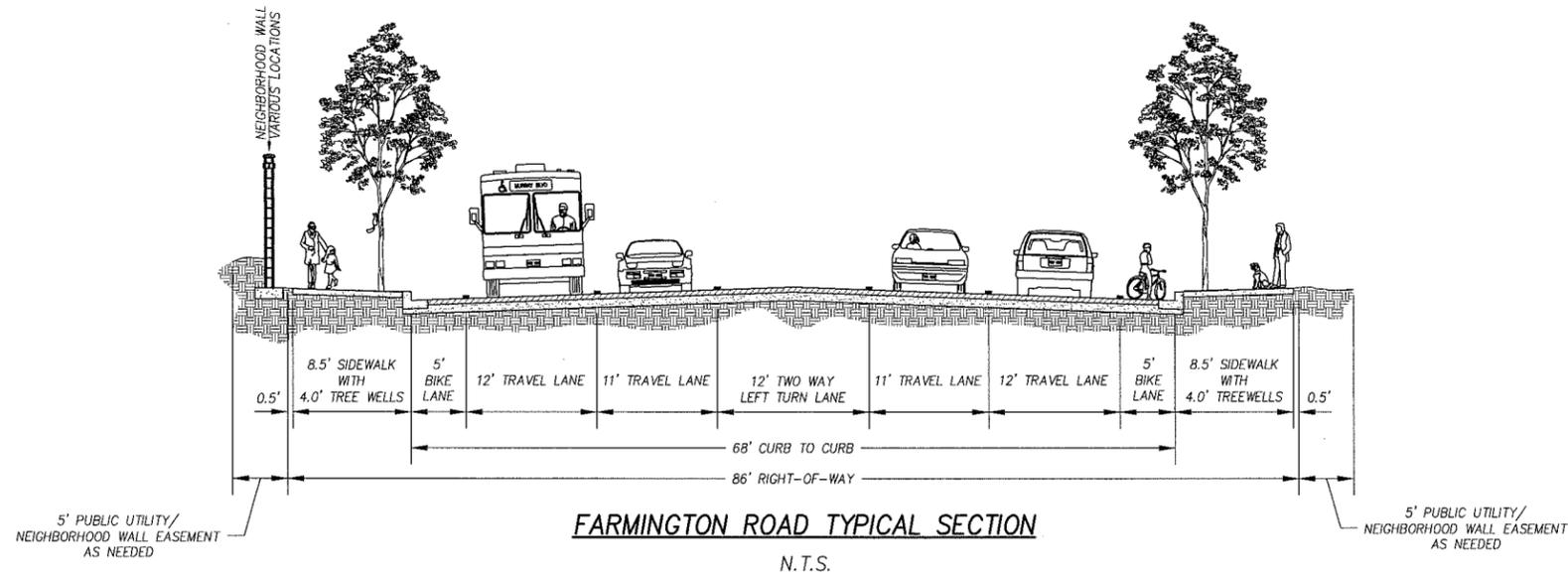
PROPOSED LEGEND	
	SANITARY MANHOLE
	STORM MANHOLE
	STORM INLET
	DITCH INLET
	LYNCH CATCH BASIN
	CLEAN OUT
	WATER VALVE
	THRUST BLOCK
	WATER CAP
	FIRE HYDRANT
	STREET LIGHT
	SANITARY LINE
	STORM LINE
	WATER LINE
	SAWCUT
	EDGE OF PAVEMENT
	CURB
	BACK OF SIDEWALK
	RIGHT-OF-WAY LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	SOUNDWALL
	100 YEAR FLOOD PLAIN
	CWS SENSITIVE AREA
	SEGMENTAL RETAINING WALL
	FULL A.C. PAVEMENT SECTION
	A.C. OVERLAY
	MODIFICATION OR REMOVAL OF STRUCTURE
	SIDEWALK

NO.	REVISIONS



FARMINGTON ROAD PROJECT INDEX MAP BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. 1A
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

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NO.	REVISIONS

WASHINGTON COUNTY  
DEPARTMENT OF LAND USE & TRANSPORTATION ENGINEERING

Beaverton  
CITY OF BEAVERTON  
ECONOMIC & CAPITAL DEVELOPMENT  
Engineering Division

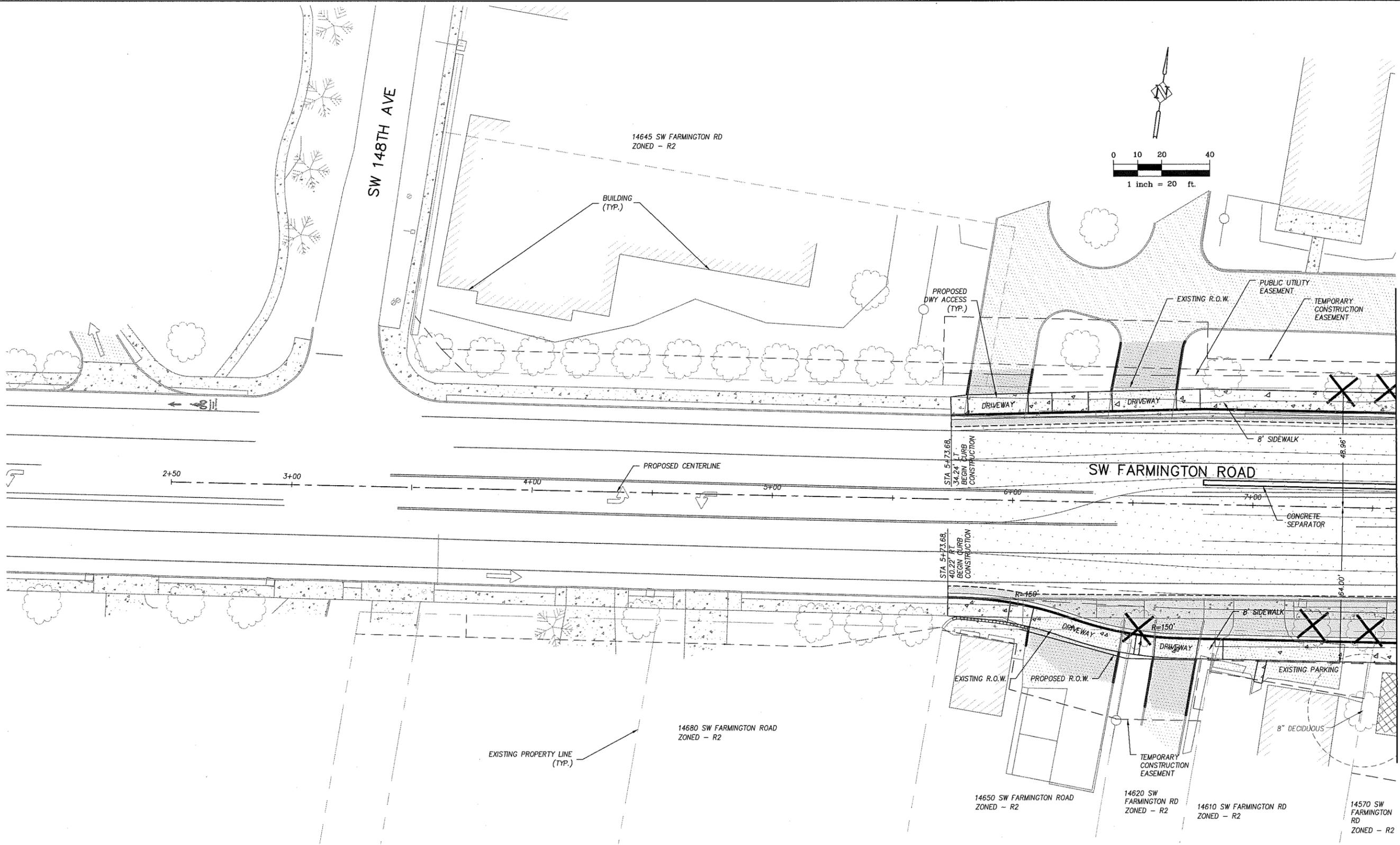
REGISTERED PROFESSIONAL ENGINEER  
16,263  
PRELIMINARY  
OREGON  
DEC. 1, 1993  
DANIEL S. HOPE  
EXPIRES: 8/30/15

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205 SE Spokane Street, Suite 200, Portland, OR 97202  
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

**FARMINGTON ROAD TYPICAL SECTIONS**  
BEAVERTON, OREGON

DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. <b>1A-2</b>
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

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MATCHLINE - STA 7+60  
SEE SHEET SP-02

LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS

**WASHINGTON COUNTY**  
 DEPARTMENT OF LAND USE & TRANSPORTATION ENGINEERING

**Beaverton**  
 CITY OF BEAVERTON  
 ECONOMIC & CAPITAL DEVELOPMENT  
 Engineering Division

**DANIEL S. HOUE**  
 REGISTERED PROFESSIONAL ENGINEER  
 PRELIMINARY  
 EXPIRES: 6/30/15

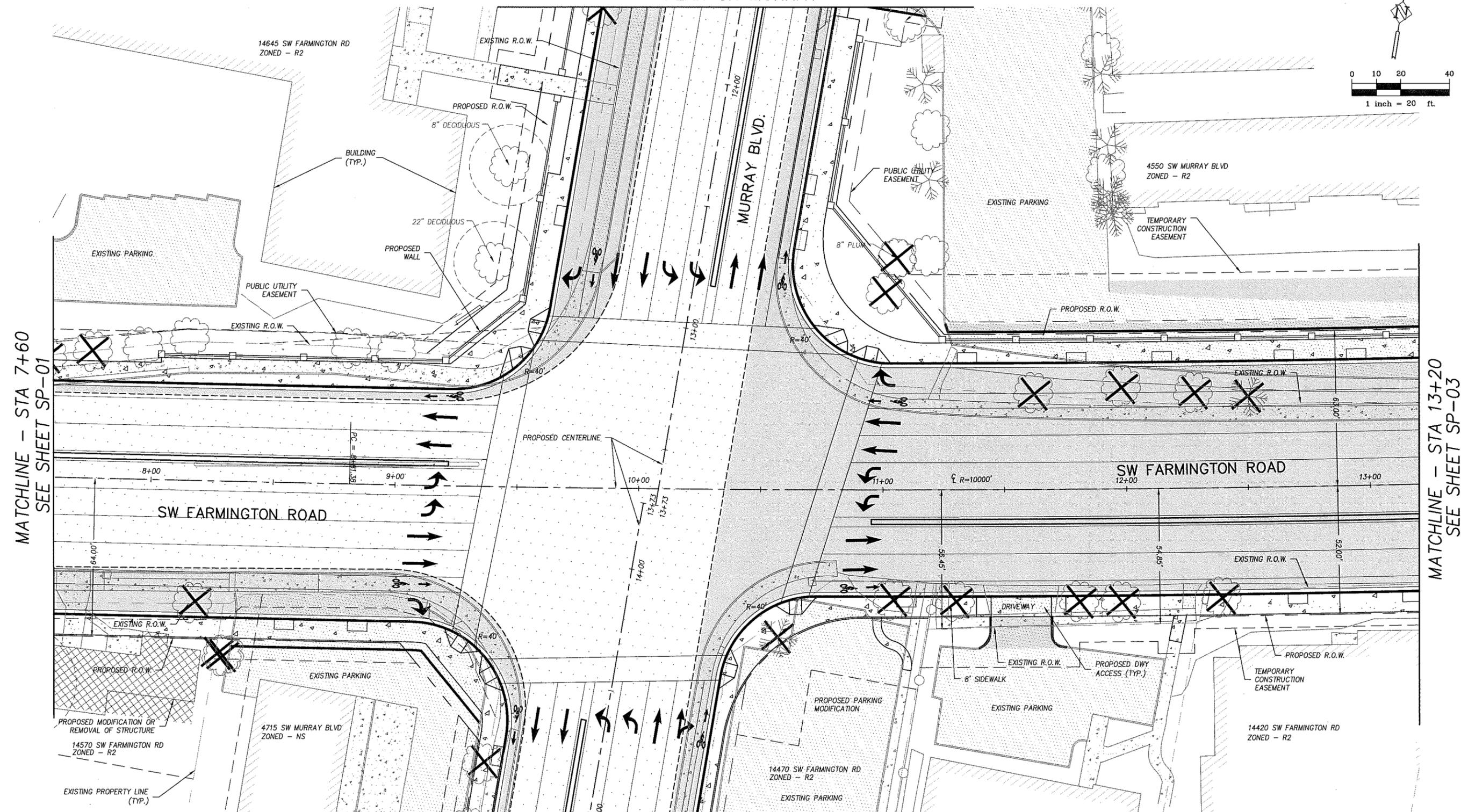
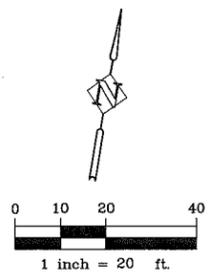
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 205 SE Spokane Street, Suite 200, Portland, OR 97202  
 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

**DIMENSIONED SITE PLAN**

**FARMINGTON ROAD**  
 BEGINNING OF PROJECT TO STA. 7+60  
 BEAVERTON, OREGON

DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. <b>SP-01</b>
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

REFER TO SHEET SP-10 FOR  
PLAN ON MURRAY



MATCHLINE - STA 7+60  
SEE SHEET SP-01

MATCHLINE - STA 13+20  
SEE SHEET SP-03

REFER TO SHEET SP-12 FOR  
PLAN ON MURRAY

LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS



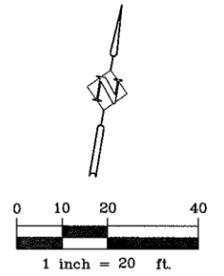
DEPARTMENT OF  
LAND USE &  
TRANSPORTATION  
ENGINEERING

**Beaverton**  
CITY OF  
BEAVERTON  
ECONOMIC & CAPITAL  
DEVELOPMENT  
Engineering Division

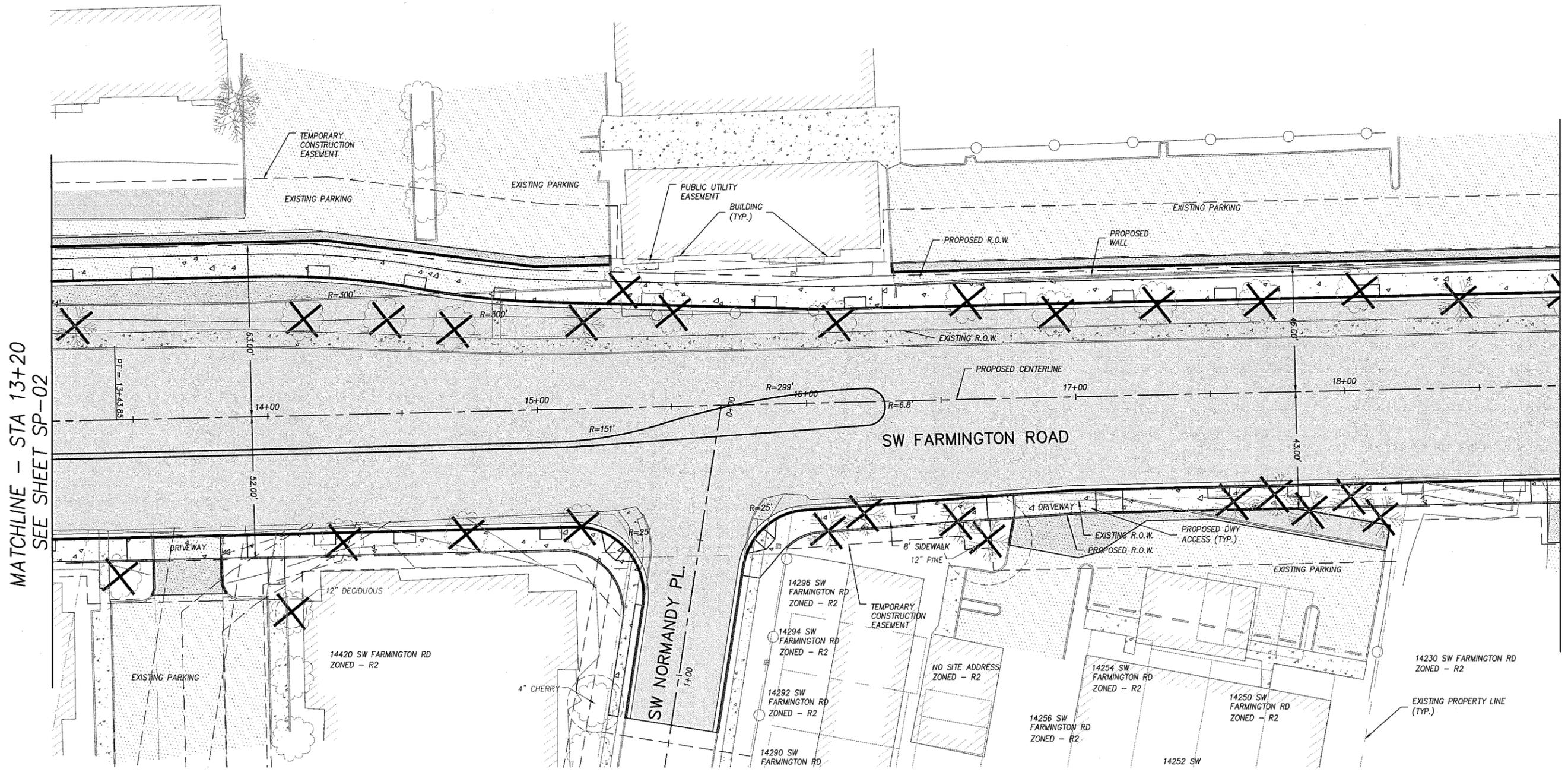


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DIMENSIONED SITE PLAN		
FARMINGTON ROAD STA. 7+60 TO 13+20 BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. SP-02
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	



4550 SW MURRAY BLVD  
ZONED - R2



MATCHLINE - STA 13+20  
SEE SHEET SP-02

MATCHLINE - STA 18+80  
SEE SHEET SP-04

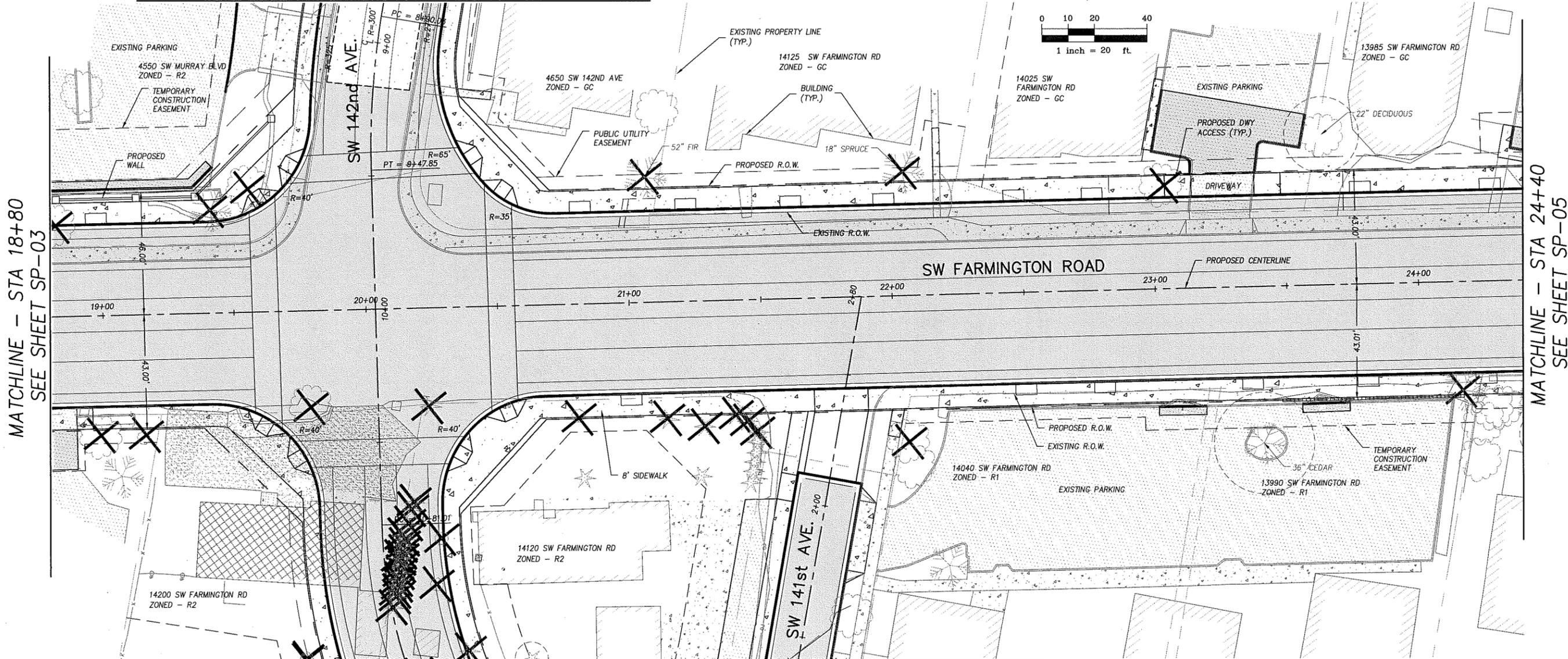
LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS



DIMENSIONED SITE PLAN		
FARMINGTON ROAD STA. 13+20 TO 18+80 BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. SP-03
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

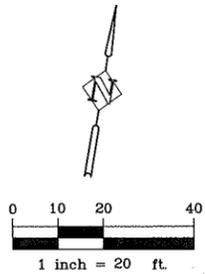
REFER TO SHEET SP-14 FOR 142ND AVE. PLANS



REFER TO SHEET SP-13 FOR 141ST AVE. PLANS

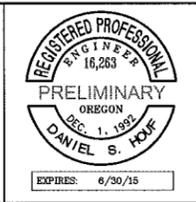
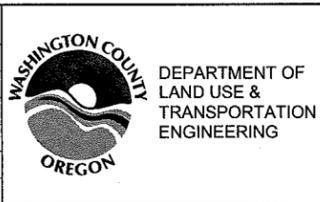
MATCHLINE - STA 18+80  
SEE SHEET SP-03

MATCHLINE - STA 24+40  
SEE SHEET SP-05

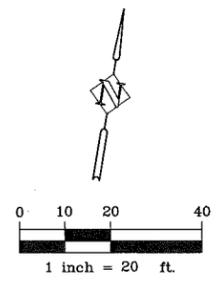


LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT. OF R.O.W.

NO.	REVISIONS

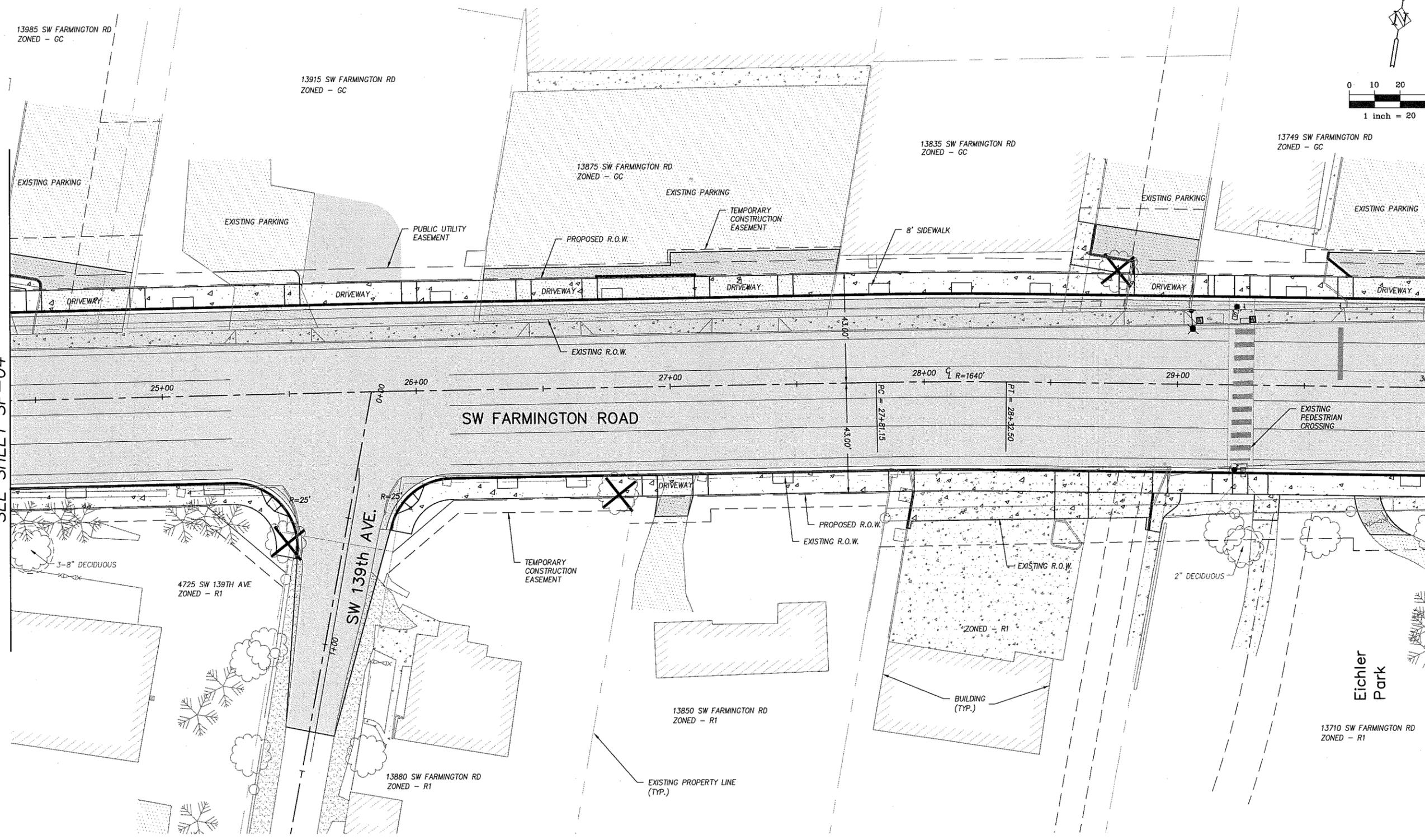


DIMENSIONED SITE PLAN		
FARMINGTON ROAD STA. 18+80 TO 24+40 BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. SP-04
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	



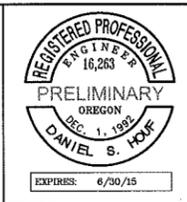
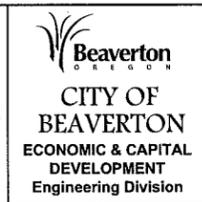
MATCHLINE - STA 24+40  
SEE SHEET SP-04

MATCHLINE - STA 30+00  
SEE SHEET SP-06



LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

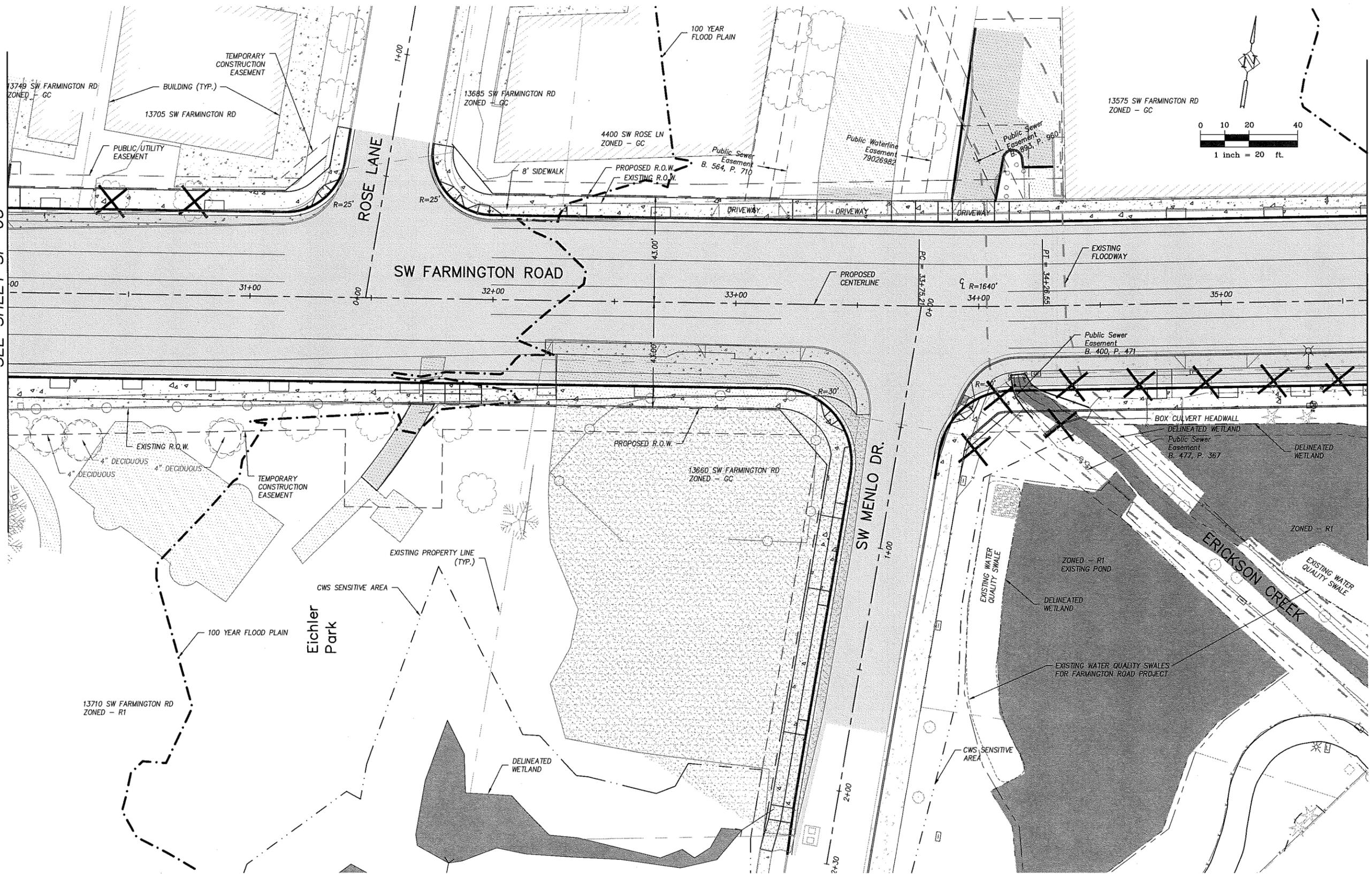
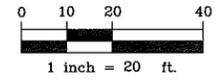
NO.	REVISIONS



DIMENSIONED SITE PLAN		
FARMINGTON ROAD STA. 24+40 TO 30+00 BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. SP-05
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

MATCHLINE - STA 30+00  
SEE SHEET SP-05

MATCHLINE - STA 35+60  
SEE SHEET SP-07



LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS



DEPARTMENT OF LAND USE & TRANSPORTATION ENGINEERING

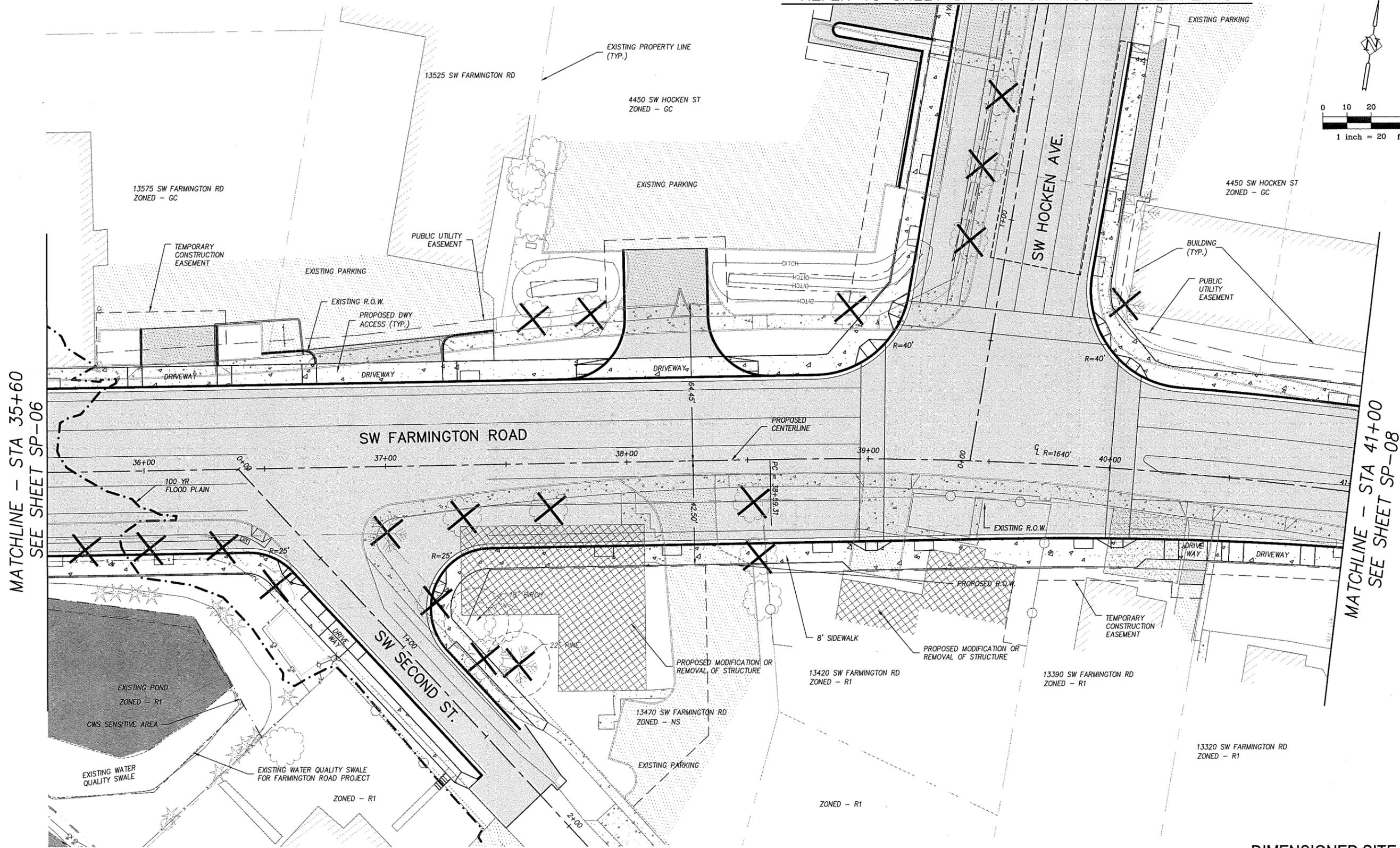
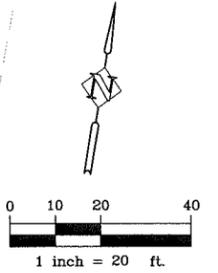
**Beaverton**  
CITY OF BEAVERTON  
ECONOMIC & CAPITAL DEVELOPMENT  
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DIMENSIONED SITE PLAN		
<b>FARMINGTON ROAD STA. 30+00 TO 35+60 BEAVERTON, OREGON</b>		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO.
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	<b>SP-06</b>

REFER TO SHEET SP-09 FOR HOCKEN AVE. PLANS



MATCHLINE - STA 35+60  
SEE SHEET SP-06

MATCHLINE - STA 41+00  
SEE SHEET SP-08

LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS

**WASHINGTON COUNTY**  
DEPARTMENT OF LAND USE & TRANSPORTATION ENGINEERING

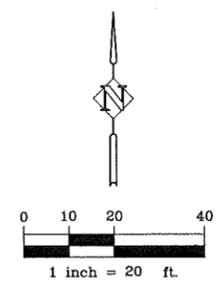
**Beaverton**  
CITY OF BEAVERTON  
ECONOMIC & CAPITAL DEVELOPMENT  
Engineering Division

**REGISTERED PROFESSIONAL ENGINEER**  
16,263  
PRELIMINARY  
OREGON  
DEC. 1, 1992  
DANIEL S. HOSE  
EXPIRES: 6/30/15

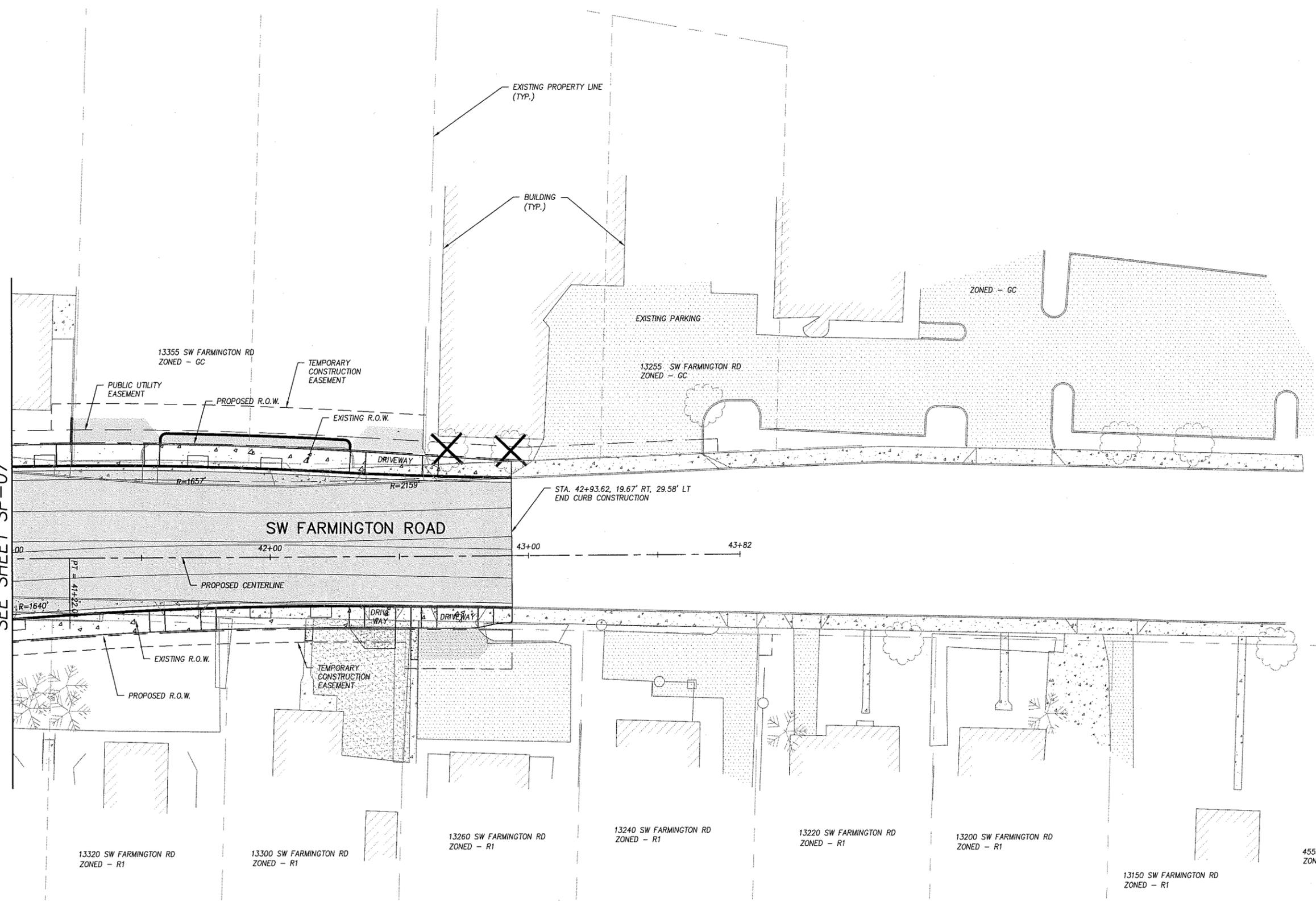
**Harper Houf Peterson Righellis Inc.**  
ENGINEERS • PLANNERS  
LANDSCAPE ARCHITECTS • SURVEYORS  
205 SE Spokane Street, Suite 200, Portland, OR 97202  
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

**DIMENSIONED SITE PLAN**  
**FARMINGTON ROAD**  
STA. 35+60 TO 41+00  
BEAVERTON, OREGON

DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO.
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	<b>SP-07</b>



MATCHLINE - STA 41+00  
SEE SHEET SP-07



LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT. OF R.O.W.

NO.	REVISIONS

WASHINGTON COUNTY  
DEPARTMENT OF  
LAND USE &  
TRANSPORTATION  
ENGINEERING

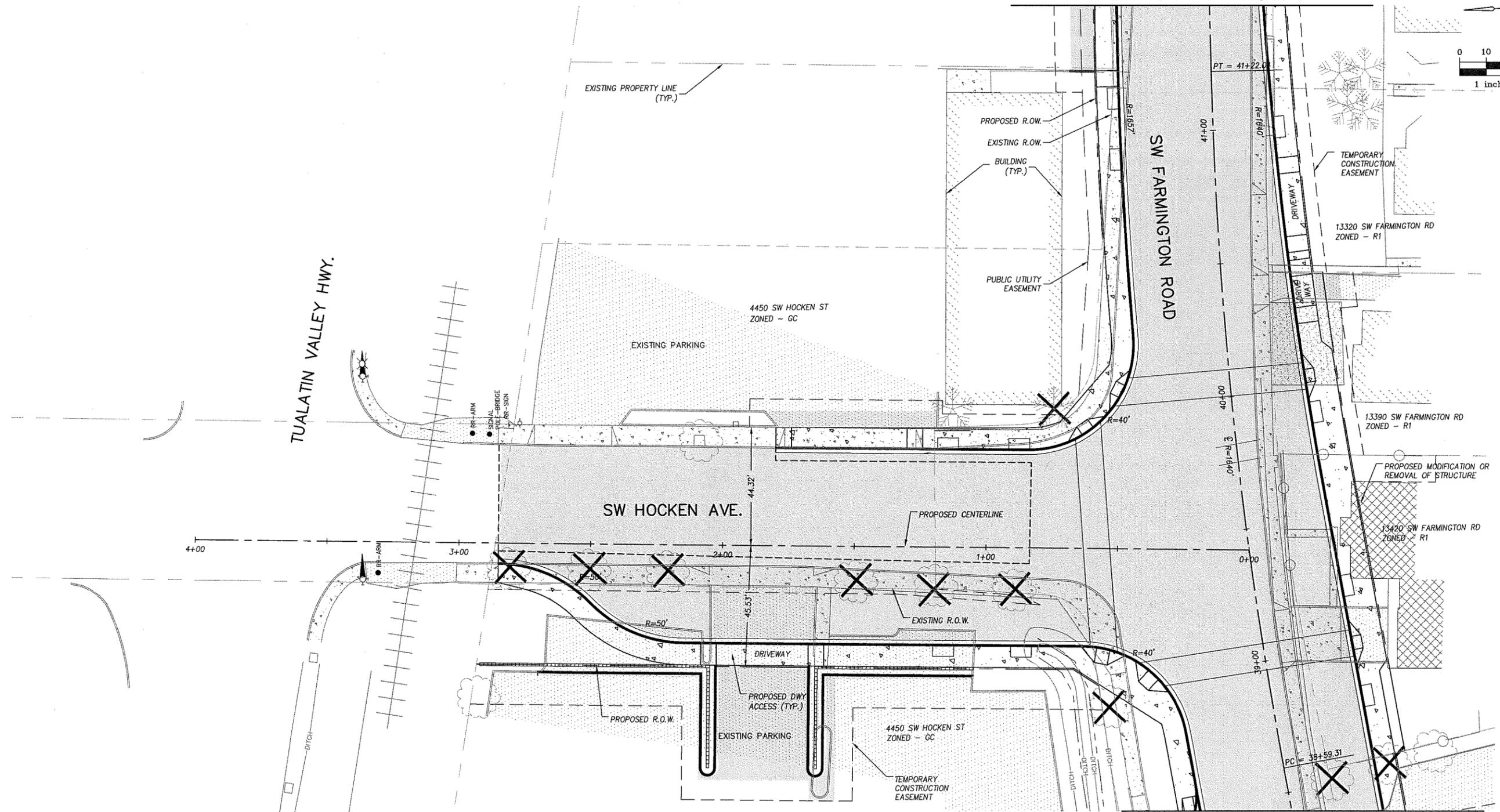
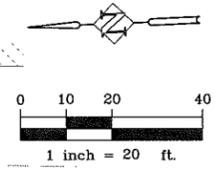
Beaverton  
CITY OF  
BEAVERTON  
ECONOMIC & CAPITAL  
DEVELOPMENT  
Engineering Division

REGISTERED PROFESSIONAL  
ENGINEER  
16,283  
PRELIMINARY  
OREGON  
DEC. 1, 1995  
DANIEL S. HOUF  
EXPIRES: 6/30/15

**HARPER HOUF PETERSON RIGHELLIS INC.**  
ENGINEERS • PLANNERS  
LANDSCAPE ARCHITECTS • SURVEYORS  
205 SE Spokane Street, Suite 200, Portland, OR 97202  
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

<b>DIMENSIONED SITE PLAN</b>		<b>FARMINGTON ROAD STA. 41+00 TO 43+80 BEAVERTON, OREGON</b>	SHEET NO. <b>SP-08</b>
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM		
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24		

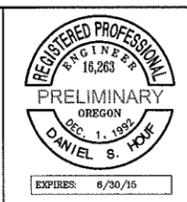
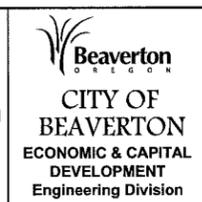
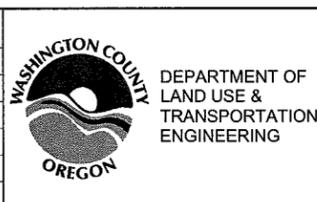
REFER TO SHEET SP-08 FOR  
PLAN ON FARMINGTON



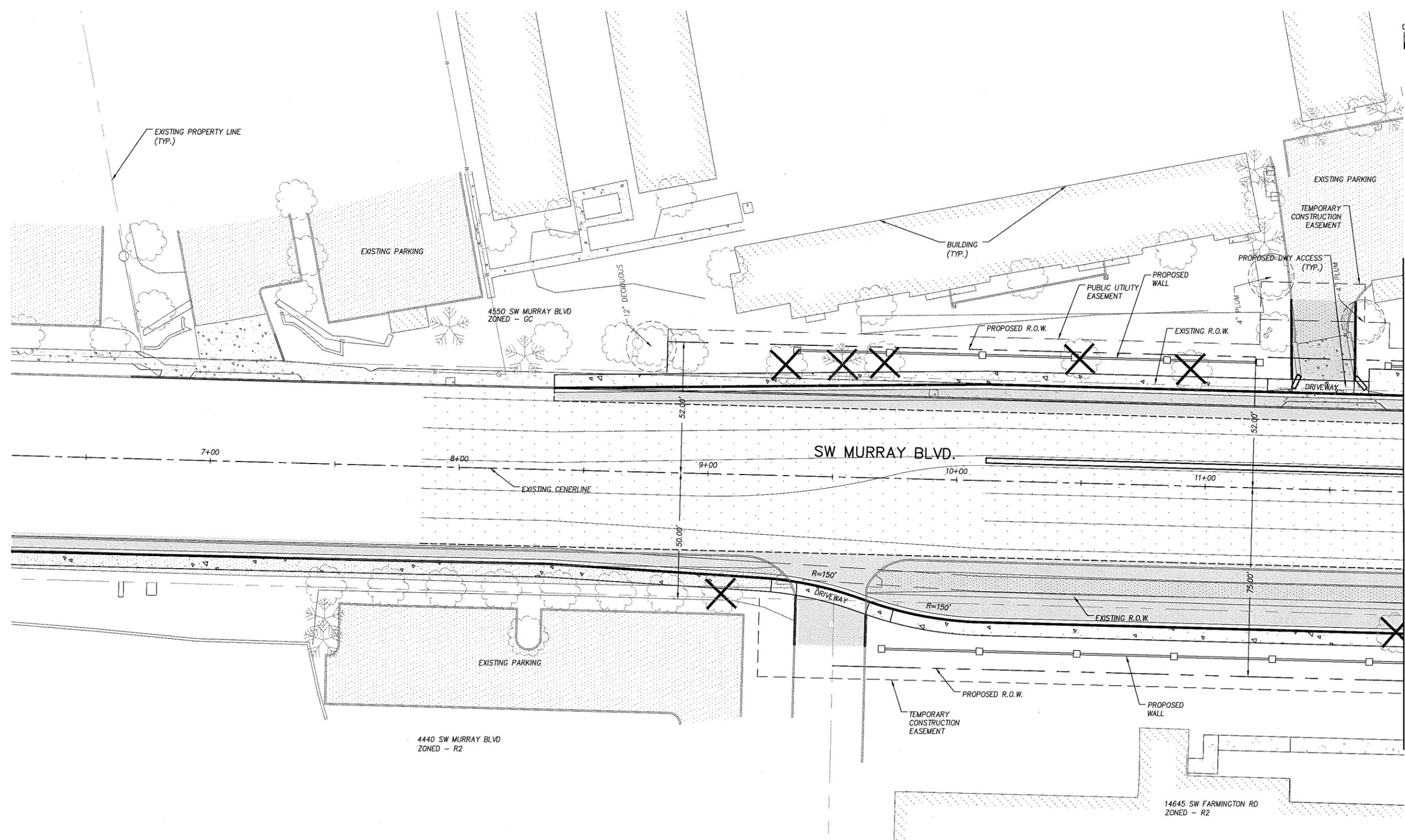
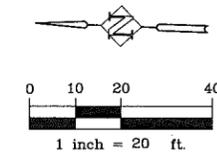
REFER TO SHEET SP-07 FOR  
PLAN ON FARMINGTON

LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS



DIMENSIONED SITE PLAN		
FARMINGTON ROAD HOCKEN AVENUE BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. <b>SP-09</b>
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	



MATCHLINE - STA 11+80  
SEE SHEET SP-11

LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

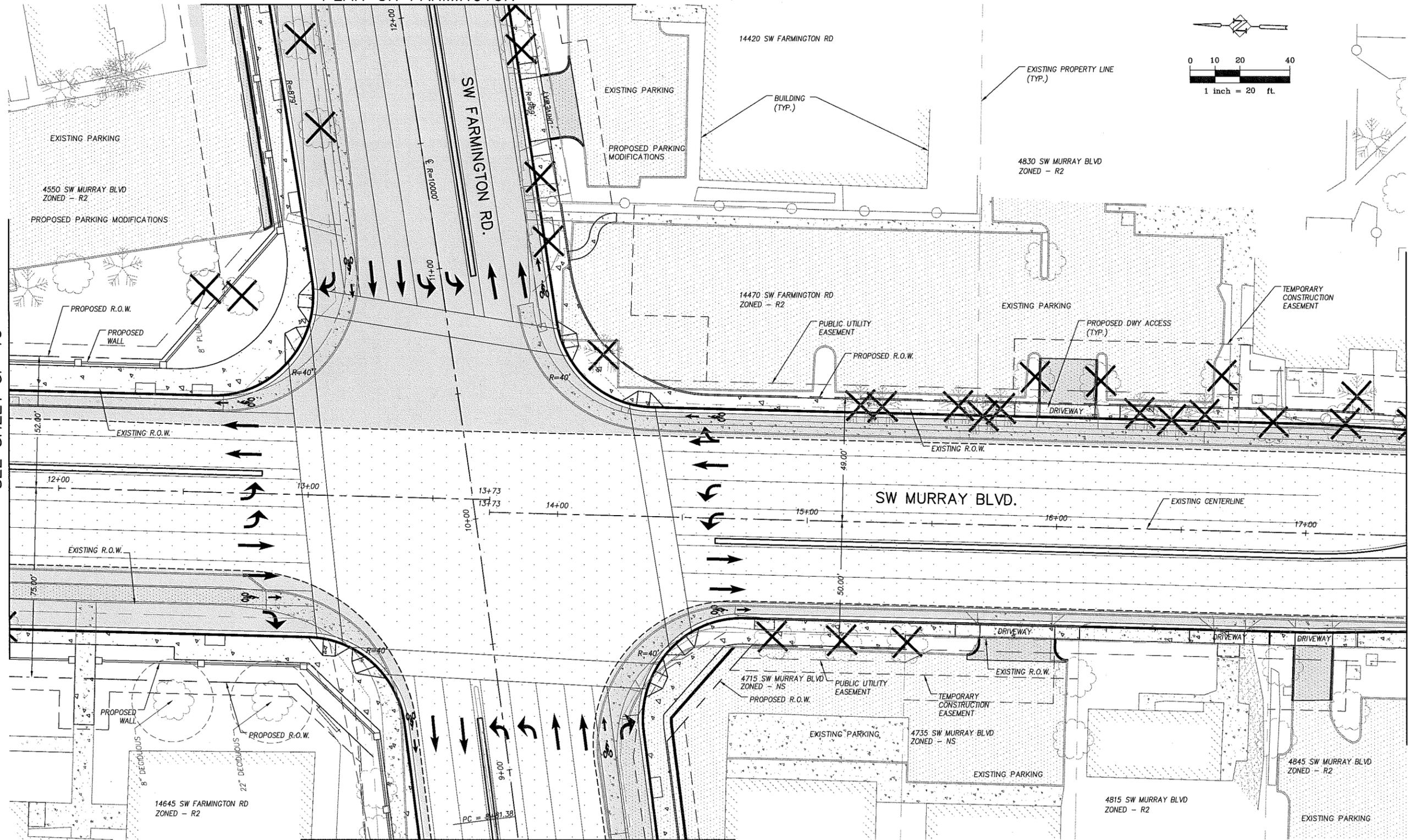
NO.	REVISIONS



DIMENSIONED SITE PLAN		
FARMINGTON ROAD MURRAY BLVD. BEGIN. TO STA. 11+80 BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO.
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	SP-10

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REFER TO SHEET SP-02 FOR  
PLAN ON FARMINGTON



MATCHLINE - STA 11+80  
SEE SHEET SP-10

MATCHLINE - STA 17+40  
SEE SHEET SP-12

REFER TO SHEET SP-02 FOR  
PLAN ON FARMINGTON

**LEGEND**

- PROPOSED CURB
- PROPOSED SIDEWALK
- PROPOSED SAWCUT
- PROPOSED RIGHT-OF-WAY
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- TREE REMOVED IN R.O.W.
- TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS



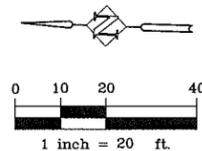
DEPARTMENT OF  
LAND USE &  
TRANSPORTATION  
ENGINEERING

**Beaverton**  
CITY OF  
BEAVERTON  
ECONOMIC & CAPITAL  
DEVELOPMENT  
Engineering Division

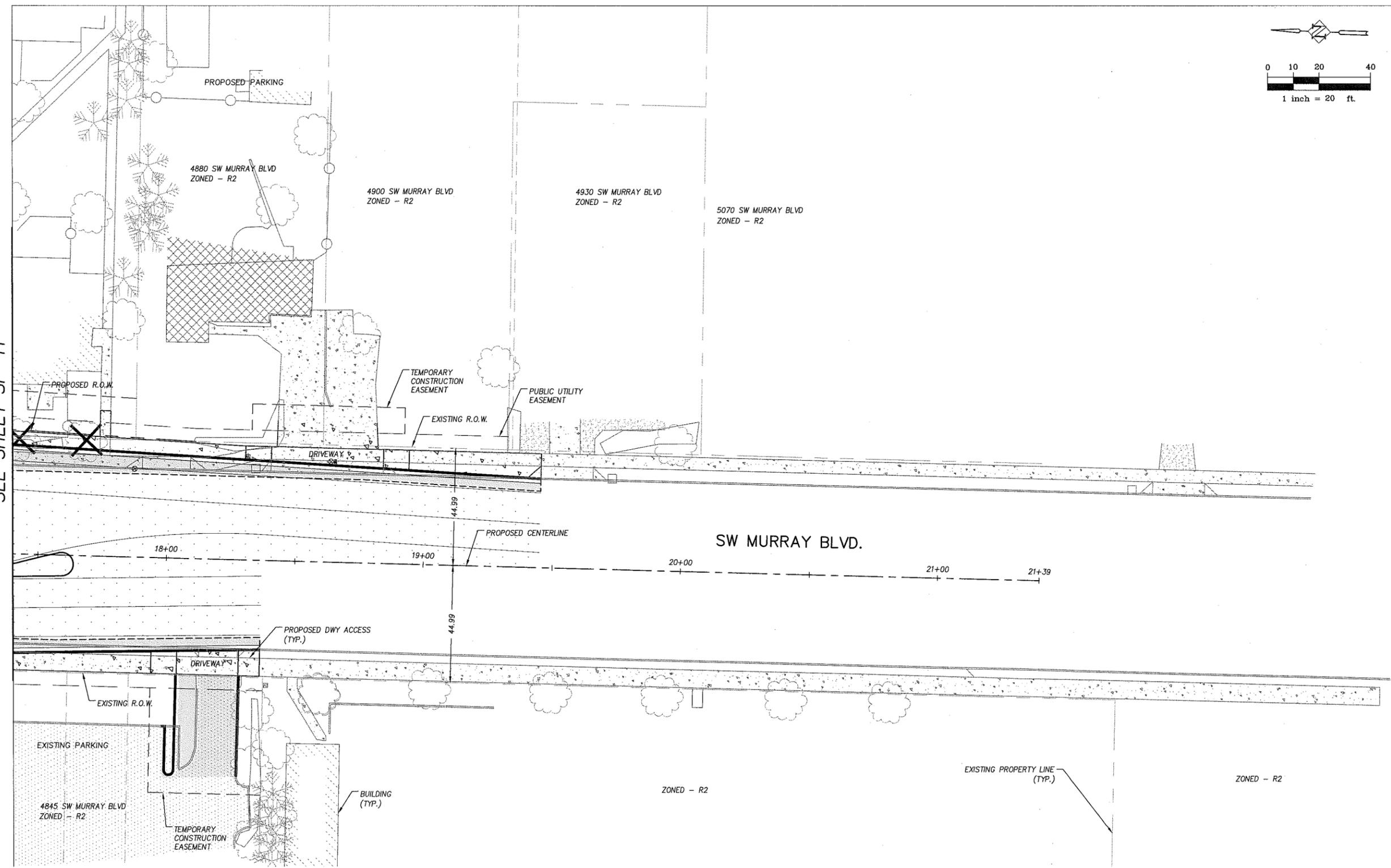


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205 SE Spokane Street, Suite 200, Portland, OR 97202  
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

DIMENSIONED SITE PLAN		
FARMINGTON ROAD MURRAY BLVD. STA. 11+80 TO 17+40 BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO.
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	SP-11

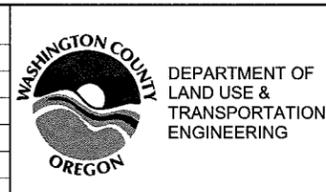


MATCHLINE - STA 17+40  
SEE SHEET SP-11



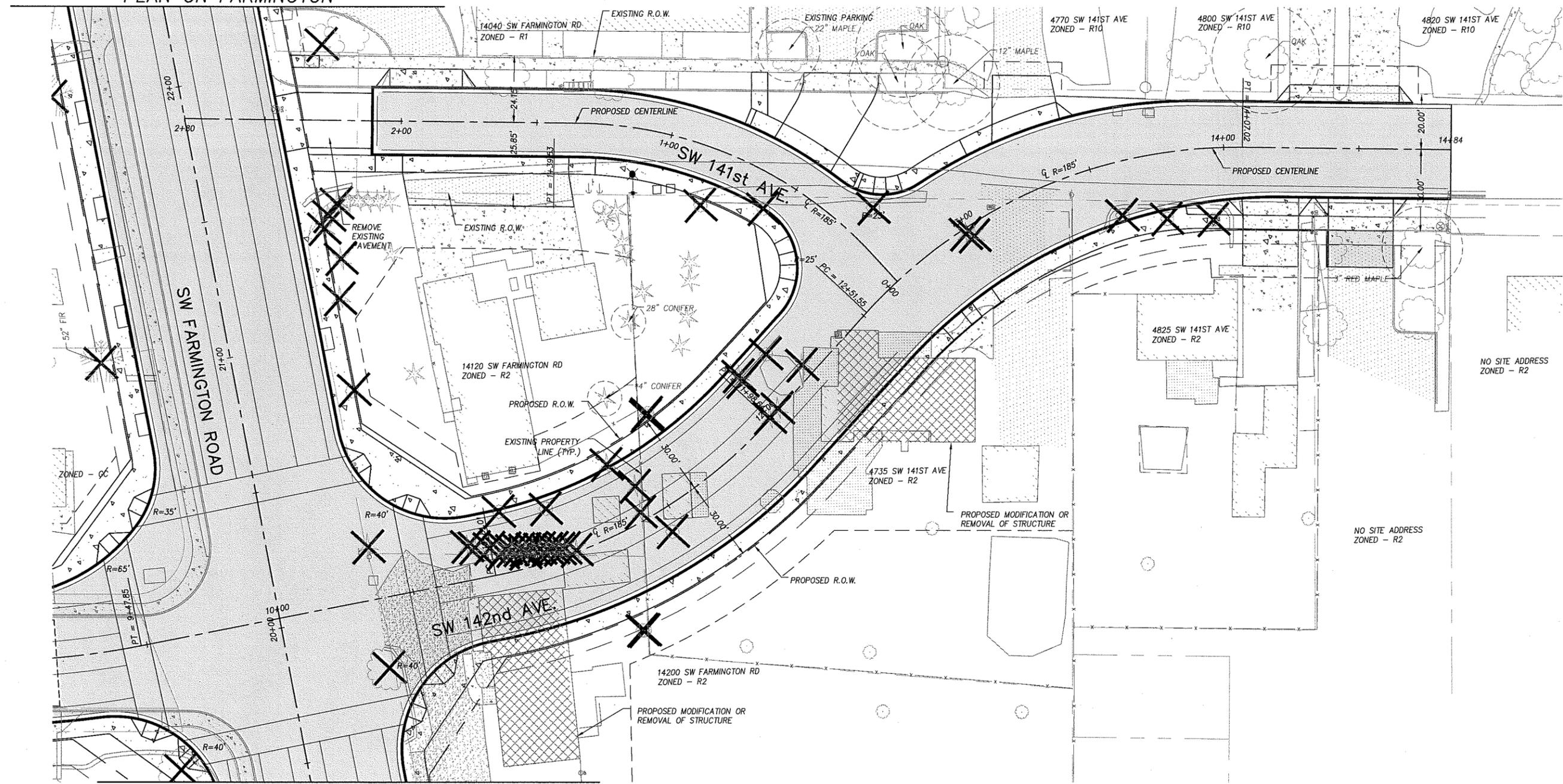
LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT. OF R.O.W.

NO.	REVISIONS

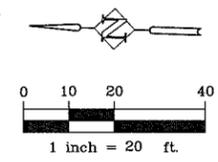


DIMENSIONED SITE PLAN		
FARMINGTON ROAD MURRAY BLVD. STA. 17+40 TO END BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. SP-12
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

REFER TO SHEET SP-04 FOR  
PLAN ON FARMINGTON

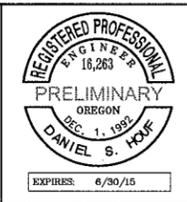
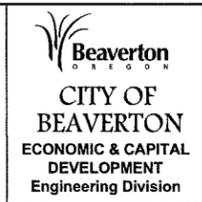
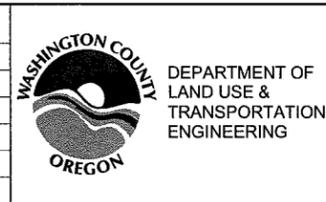


REFER TO SHEET SP-04 FOR  
PLAN ON FARMINGTON



LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS

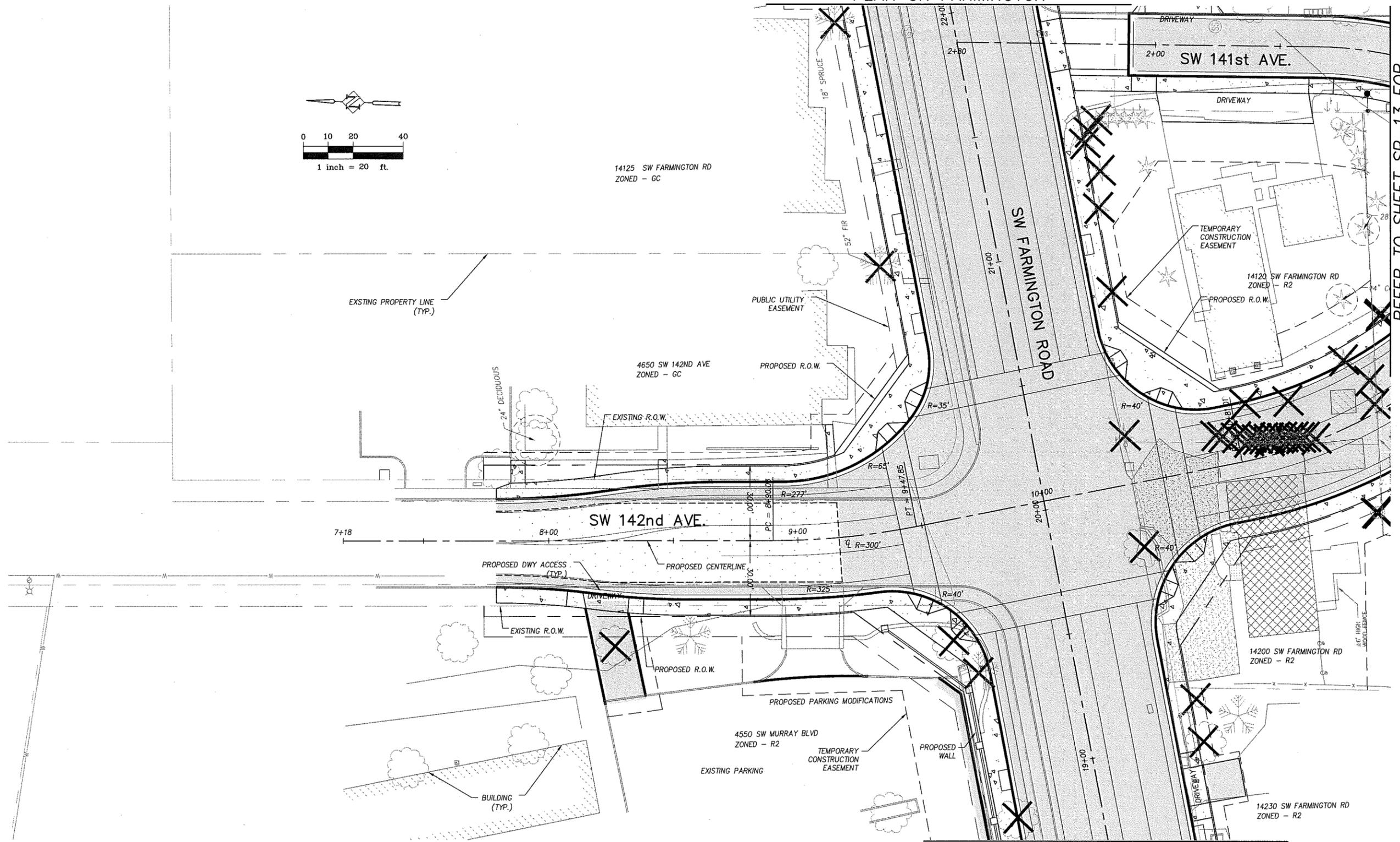
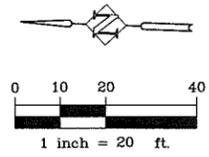


DIMENSIONED SITE PLAN		
FARMINGTON ROAD 141ST AVENUE BEAVERTON, OREGON		
DESIGNED BY: DSH/HPR TEAM	DRAFTED BY: HPR TEAM	SHEET NO.
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	SP-13

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REFER TO SHEET SP-04 FOR  
PLAN ON FARMINGTON

REFER TO SHEET SP-13 FOR  
PLAN ON 141ST



REFER TO SHEET SP-03 FOR  
PLAN ON FARMINGTON

**DIMENSIONED SITE PLAN**

LEGEND	
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED SAWCUT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
	TREE REMOVED IN R.O.W.
	TREE WITH CANOPY WITHIN 5 FT OF R.O.W.

NO.	REVISIONS

DEPARTMENT OF  
LAND USE &  
TRANSPORTATION  
ENGINEERING

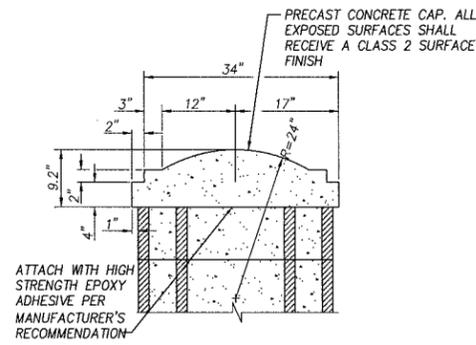
**CITY OF  
BEAVERTON**  
ECONOMIC & CAPITAL  
DEVELOPMENT  
Engineering Division

REGISTERED PROFESSIONAL  
ENGINEER  
16,263  
PRELIMINARY  
OREGON  
DEC. 1, 1999  
DANIEL S. HOUF  
EXPIRES: 6/30/15

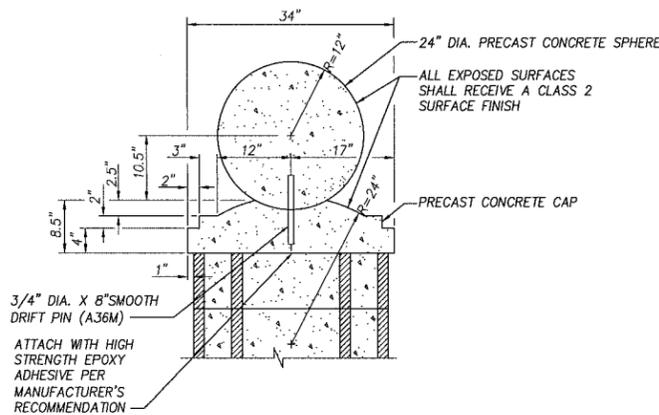
**Harper  
Houf Peterson  
Righellis Inc.**  
ENGINEERS • PLANNERS  
LANDSCAPE ARCHITECTS • SURVEYORS  
205 SE Spokane Street, Suite 200, Portland, OR 97202  
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

FARMINGTON ROAD 142ND AVENUE BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO.
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	<b>SP-14</b>

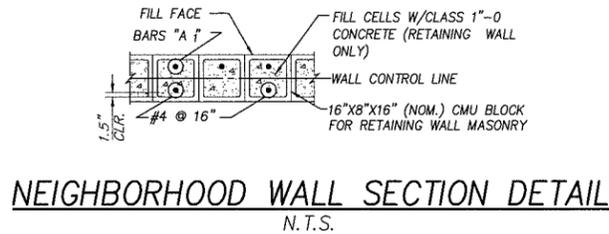
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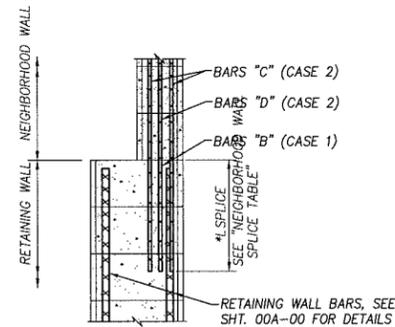
**PILASTER CAP - TYPE 1**  
N.T.S.



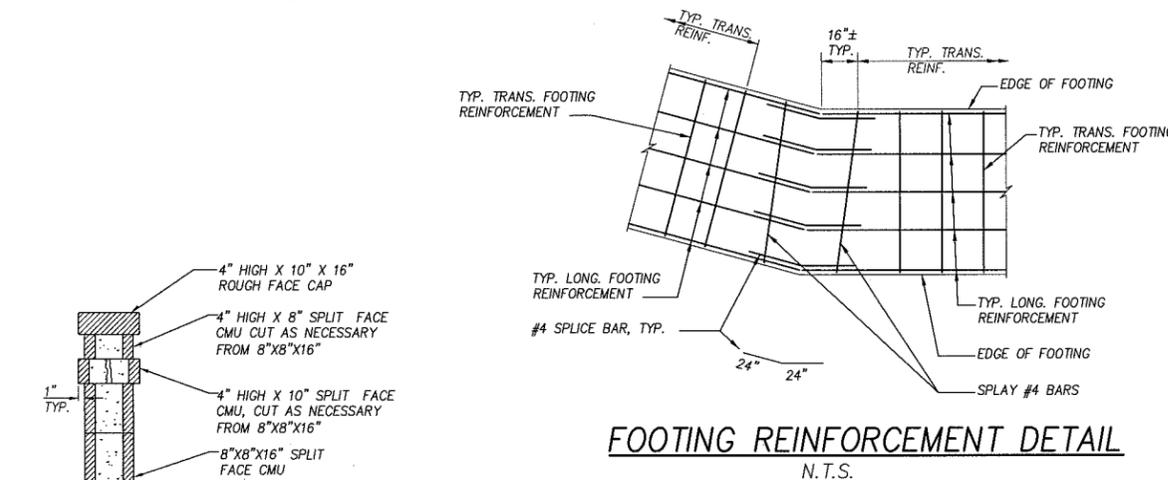
**PILASTER CAP - TYPE 2**  
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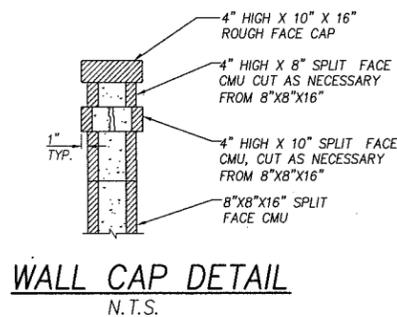
**NEIGHBORHOOD WALL SECTION DETAIL**  
N.T.S.



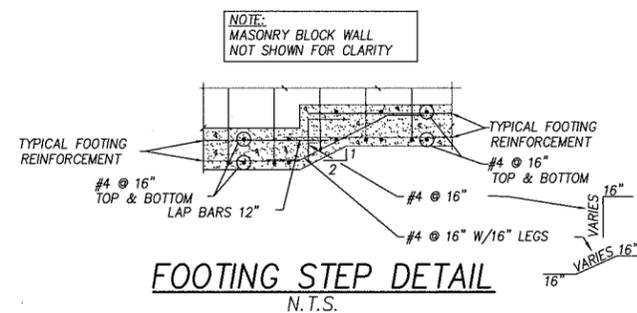
**NEIGHBORHOOD WALL CONNECTION DETAIL**  
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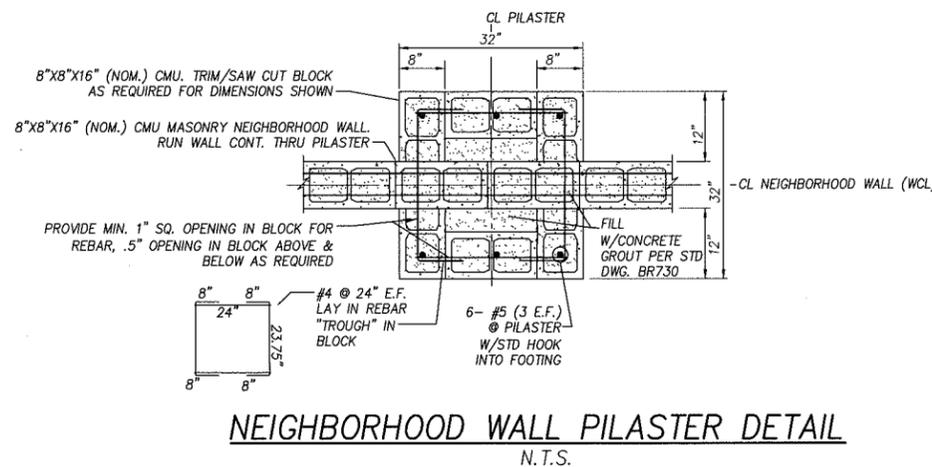
**FOOTING REINFORCEMENT DETAIL**  
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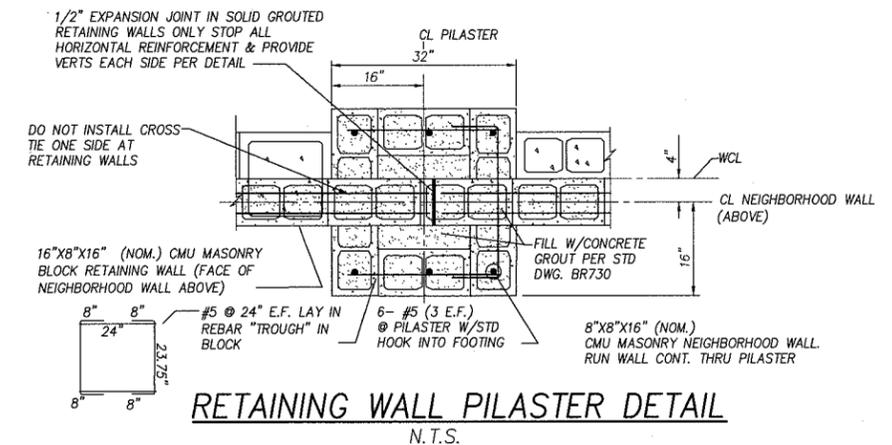
**WALL CAP DETAIL**  
N.T.S.



**FOOTING STEP DETAIL**  
N.T.S.



**NEIGHBORHOOD WALL PILASTER DETAIL**  
N.T.S.



**RETAINING WALL PILASTER DETAIL**  
N.T.S.

**SPECIAL INSPECTION AND TESTING REQUIREMENTS**

**CMU WALL PER OSSC TABLE 1704.5.1:**

- PERIODIC INSPECTIONS ARE REQUIRED FOR TASKS 1B, 1C, 2A, 2C, 2B, 3A, 3C, 3D, AND 6
- CONTINUOUS INSPECTIONS ARE REQUIRED FOR TASK 4

**CMU TESTING REQUIREMENTS ARE TO INCLUDE THE FOLLOWING:**

- COMPRESSION TESTS FOR EACH MASONRY GROUT MIX USED. TESTS TO BE TAKEN ONCE PER DAY DURING GROUT INSTALLATION.
- COMPRESSION TEST FOR EACH MASONRY MORTAR MIX USED. COMPLETED AT THE START OF THE PROJECT.

**CONCRETE FOUNDATIONS & WALLS PER OSSC TABLE 1704.4**

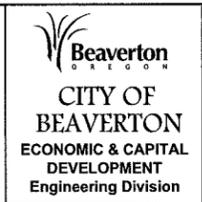
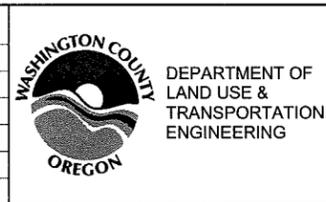
- PERIODIC INSPECTIONS ARE REQUIRED FOR TASKS 1, 4, 7, & 11.
- CONTINUOUS INSPECTIONS ARE REQUIRED FOR TASK 5.

**NOTES:**

- PERIODIC INSPECTION IS DEFINED AS SPECIAL INSPECTION OCCURRING ONCE PER DAY FOR EACH TASK NOTED. CONTINUOUS INSPECTION IS DEFINED AS SPECIAL INSPECTION FULL TIME OBSERVATIONS FOR EACH TASK NOTED.
- SOIL AND SUBGRADE INSPECTION SHALL BE PER GEOTECHNICAL REPORT PROVIDED BY PAT KELLY CONSULTING ENGINEER, REPORT K555.

**PRELIMINARY  
FINAL STRUCTURAL  
REVIEW REQUIRED**

NO.	REVISIONS



**WALL PLAN**

**FARMINGTON ROAD WALL DETAILS**  
BEAVERTON, OREGON

DESIGNED BY: DSH/HPR TEAM	DRAFTED BY: HPR TEAM	SHEET NO.
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	WP-01

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PRELIMINARY  
FINAL STRUCTURAL  
REVIEW REQUIRED

**GENERAL NOTES:**  
 Sound Barriers are designed in accordance with the AASHTO Guide Specifications for Structural Design of Sound Barriers (1995).  
 Heights under 14' designed for 12 psf (80 mph), 19 psf (90 & 100 mph), Height 14' to 15' for 17 psf (80 mph), 26 psf (90-100 mph). This meets requirements for B1 Exposure, and 50 year recurrence interval.  
 Masonry walls designed by working stress design and footings by load factor design method.  
 All reinforcing steel shall conform to ASTM Specification A706, AASHTO #31 (ASTM A615) Grade 60. The following Splice lengths shall be used unless shown otherwise:  
 Bar Size: 3, 4, 5, 6, 7, 8, 9, 10, 11  
 Uncoated: 1'-0", 1'-4", 1'-8", 2'-0", 2'-8", 3'-0", 4'-4", 5'-0", 6'-0"  
 Epoxy Coated: 1'-5", 1'-10", 2'-4", 2'-10", 3'-0", 4'-11", 6'-1", 7'-10", 9'-6"  
 All bars shall have a min. cover of 2" including the masonry unit, unless shown otherwise.  
 Reinforcing steel for the walls shall not be fabricated until final footing elevations have been determined in the field.  
 Concrete in footings shall be Class 3500-1½", 1 or ¾"  
 All concrete masonry units shall be grade N-1 (ASTM C-90) lightweight or medium weight classification. The compressive strength on the net-section area of a standard and 800 York split-face hollow block shall be 1900 psi.  
 The design strength of the masonry wall shall be 1500 psi. The masonry requires special inspection in accordance with USC.  
 The design strength of the mortar shall be 1800 psi at 28 days (ASTM C-270, Type S). The design strength of the concrete grout shall be 2000 psi at 28 days (ASTM C-476). A blend of coarse and fine aggregate conforming to ASTM C33 and C331 shall be used to fabricate the masonry units. Minimum weight of a hollow masonry unit shall be 95 pcf, dry density.  
 All masonry work and materials shall be as called for in the Special Provisions. All blocks with no exposed faces shall be a standard block shape. All exposed block faces shall be split-face (800 York split-face both sides). Sound barriers located on bridges, retaining walls or poor soils and in B2 or Wind Exposure in B2 or C require special design. See plans for location of expansion joints. If not shown, place expansion joints in footing at 80' ctrs. max. and in the wall at changes in wall heights and at 40' ctrs. max.

**SOIL TYPES:**  
**GOOD SOIL:** Compact, well graded sand or sand and gravel. Design Y = 35'. Design Y = 120 pcf., well drained and not located where water will stand.  
**AVERAGE SOIL:** Compact fine sand, well drained sandy loam, loose coarse sand and gravel, hard or med. clay. Design Y = 25'. Design Y = 100 pcf. Soil should drain sufficiently so that water will not stand on the surface.  
**POOR SOIL:** (Soil investigation required) Soft clay, loam, poorly compacted sands. Contains large amounts of silt or organic material. Usually found in low lying areas and are subject to standing water.

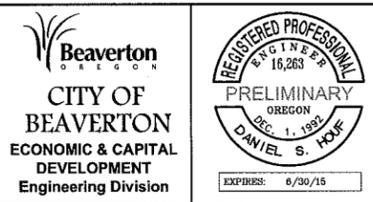
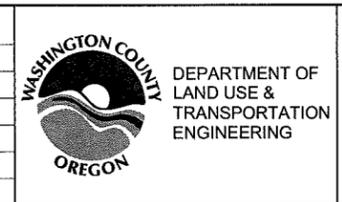
**SOUNDWALL SCHEDULE**

80 mph							90-100 mph						
Wall Height H	Ftg. Width B	Ftg. Depth T	Cont. bars 'a'	Case 1 bars 'b'	Case 2 bars 'c'	* Courses to Grout Solid **	Wall Height H	Ftg. Width B	Ftg. Depth T	Cont. bars 'a'	Case 1 bars 'b'	Case 2 bars 'c'	* Courses to Grout Solid **
6'-0"	2'-3"	11"	6 - #4	#4@32"	---	1	6'-0"	2'-6"	11"	6 - #4	#4@32"	---	1
8'-0"	2'-3"	11"	6 - #4	#4@32"	---	1	8'-0"	3'-0"	12"	8 - #4	#5@24"	---	1
10'-0"	2'-9"	12"	6 - #4	#5@32"	---	1	10'-0"	3'-9"	12"	8 - #4	#5@24"	---	1
12'-0"	3'-3"	12"	6 - #4	#5@24"	---	1	12'-0"	4'-3"	12"	8 - #4	#5@24"	#4@24"	1
14'-0"	3'-9"	12"	8 - #4	#5@24"	#4@24"	1	14'-0"	4'-9"	14"	10 - #4	#6@16"	#5@16"	2
16'-0"	4'-3"	12"	8 - #4	#5@16"	#4@16"	1	16'-0"	5'-6"	14"	10 - #4	#6@8"	#5@8"	4

\* - Dowel bars "c" each face \*\* - Grout Solid bottom # of courses

Effective Date: June 1, 2013 - November 30, 2013 BR730

NO.	REVISIONS

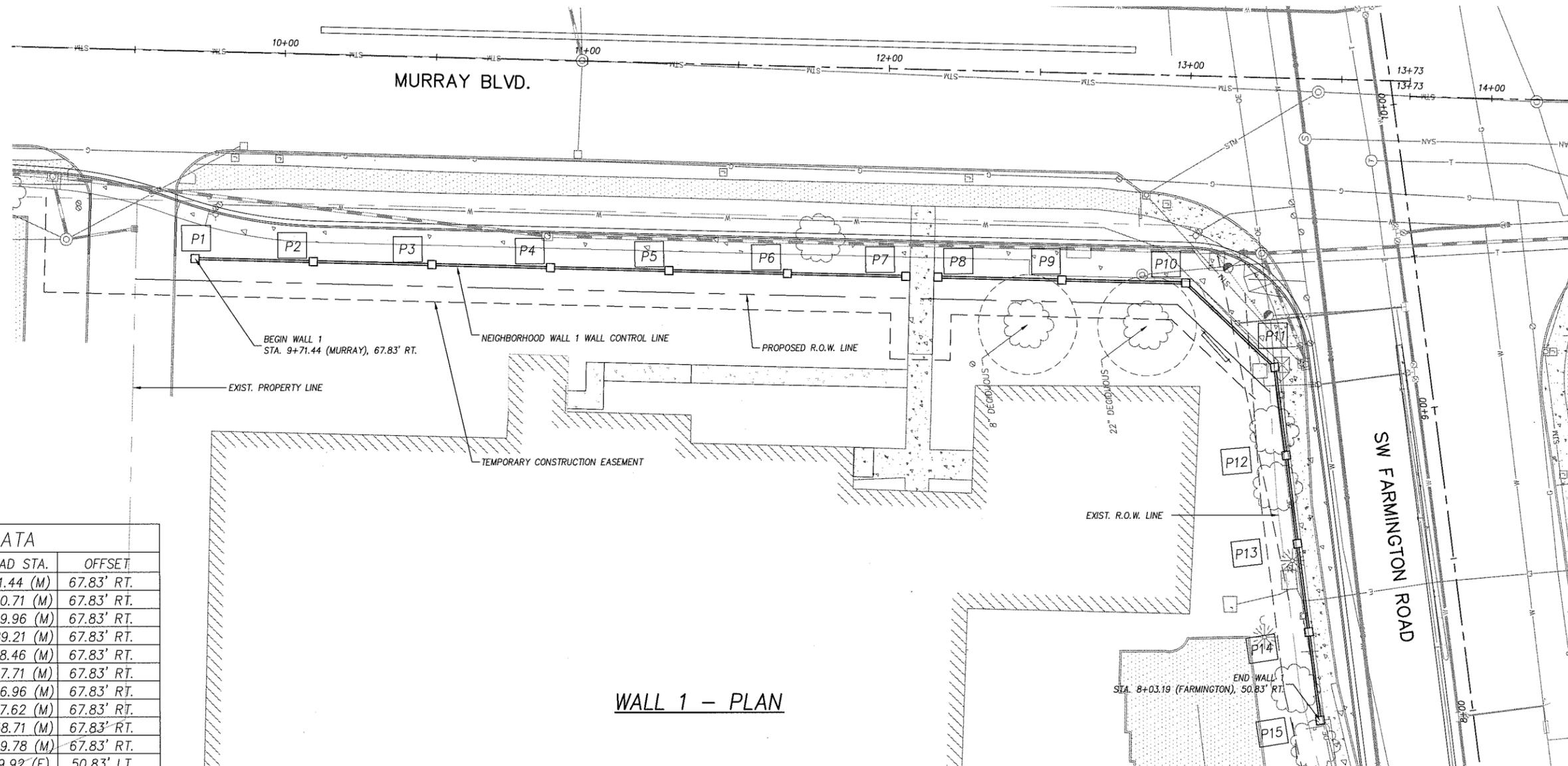
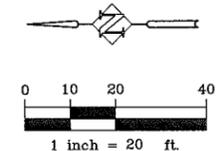


WALL PLAN FARMINGTON ROAD WALL DETAILS BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. WP-03
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	



**WALL NOTES:**

1. SEE ODOT STD. DWG. BR730 ON SHEET WP-03 FOR REINFORCEMENT AND EXPANSION JOINT DETAILS.
2. SEE SHEET WP-01 AND WP-02 FOR MASONRY WALL DETAILS.
3. STEP TOP OF RETAINING WALL AS REQUIRED.
4. (X) - DENOTES PANEL NUMBER.
5. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (').
6. ALL HORIZONTAL DIMENSIONS ON PROFILE ARE BASED ON WALL CONTROL LINE AND @ PILASTER TO @ PILASTER.
7. [PX] - DENOTES PILASTER NUMBER.

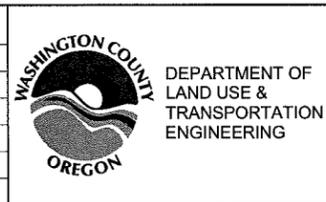


**WALL 1 - PLAN**

WALL DATA			
PILASTER	WALL STA.	ROAD STA.	OFFSET
P1	0+00.00	9+71.44 (M)	67.83' RT.
P2	0+39.26	10+10.71 (M)	67.83' RT.
P3	0+78.51	10+49.96 (M)	67.83' RT.
P4	1+17.76	10+89.21 (M)	67.83' RT.
P5	1+57.01	11+28.46 (M)	67.83' RT.
P6	1+96.26	11+67.71 (M)	67.83' RT.
P7	2+35.51	12+06.96 (M)	67.83' RT.
P8	2+46.18	12+17.62 (M)	67.83' RT.
P9	2+87.27	12+58.71 (M)	67.83' RT.
P10	3+28.34	12+99.78 (M)	67.83' RT.
P11	3+68.71	9+19.92 (F)	50.83' LT.
P12	3+97.82	8+90.66 (F)	50.83' LT.
P13	4+26.95	8+61.49 (F)	50.84' LT.
P14	4+56.08	8+32.36 (F)	50.84' LT.
P15	4+85.24	8+03.19 (F)	50.83' LT.

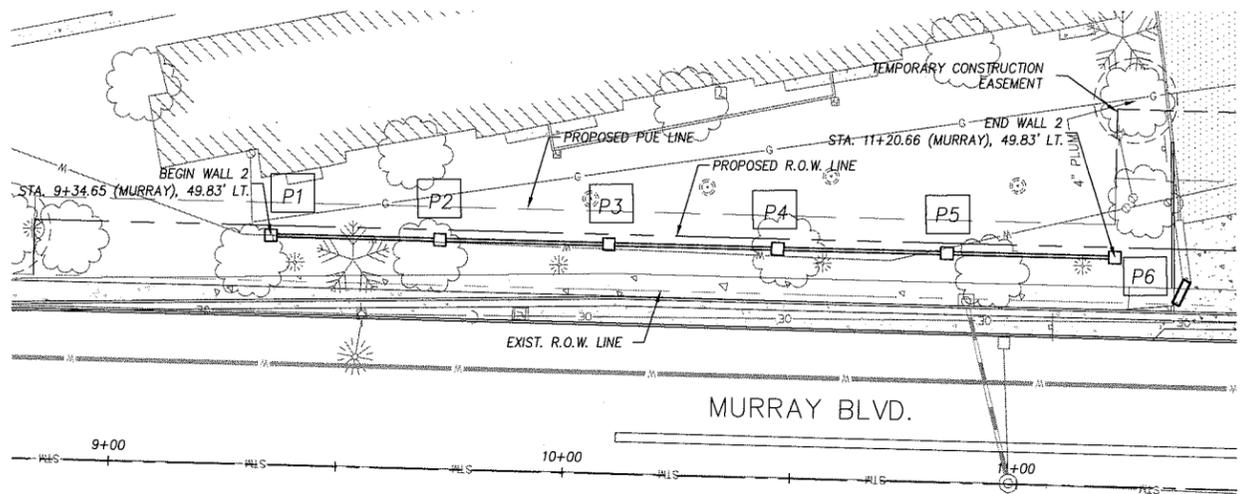
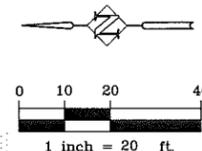
M = MURRAY BOULEVARD STATIONING  
 F = FARMINGTON ROAD STATIONING

NO.	REVISIONS



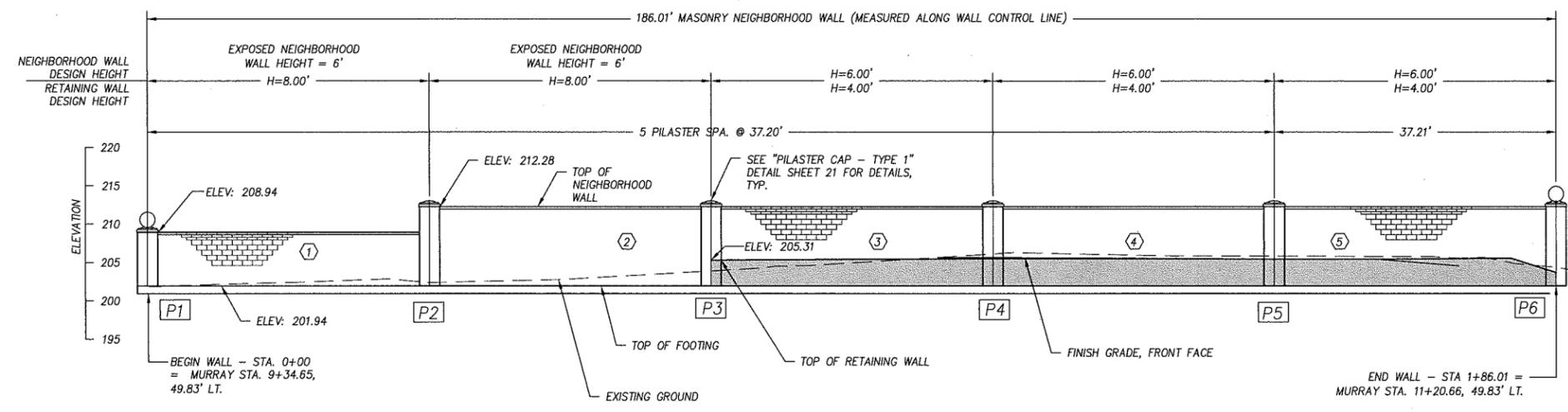
WALL PLAN		
FARMINGTON ROAD WALL 1		
BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. WP-05
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

P:\WAS-24\WAS24-DWG\Land Use Sheets\WAS24-WP-05.dwg



WALL DATA			
PILASTER	WALL STA.	ROAD STA.	OFFSET
P1	0+00.00	9+34.65	49.83' LT.
P2	0+37.20	9+71.85	49.83' LT.
P3	0+74.40	10+09.05	49.83' LT.
P4	1+11.60	10+46.25	49.83' LT.
P5	1+48.80	10+83.45	49.83' LT.
P6	1+86.01	11+20.66	49.83' LT.

**WALL 2 - PLAN**



**WALL 2 - PROFILE**

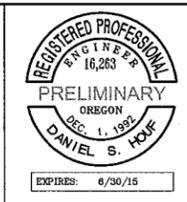
SCALE: 1:10

(NOTE: RETAINING WALL FACE IS EXPOSED TO PUBLIC R.O.W. ALONG MURRAY)

**WALL NOTES:**

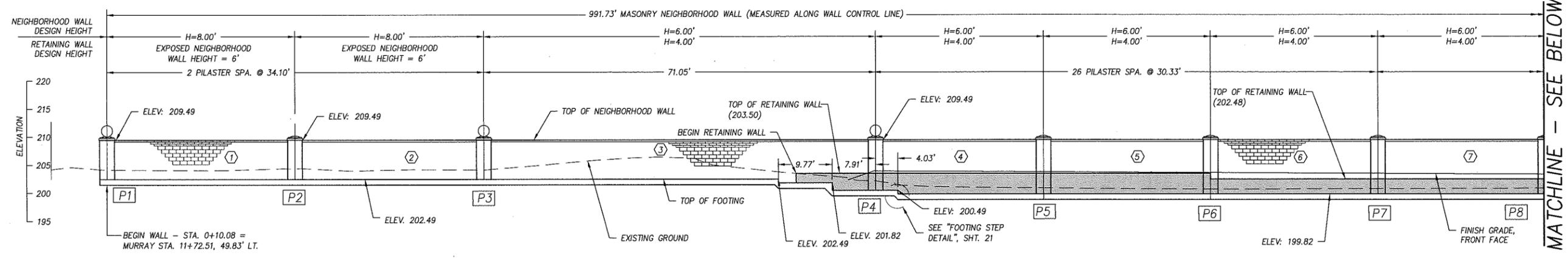
1. SEE ODOT STD. DWG. BR730 ON SHEET WP-03 FOR REINFORCEMENT AND EXPANSION JOINT DETAILS.
2. SEE SHEET WP-01 AND WP-02 FOR MASONRY WALL DETAILS.
3. STEP TOP OF RETAINING WALL AS REQUIRED.
4. (X) - DENOTES PANEL NUMBER.
5. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (').
6. ALL HORIZONTAL DIMENSIONS ON PROFILE ARE BASED ON WALL CONTROL LINE AND @ PILASTER TO @ PILASTER.
7. (PX) - DENOTES PILASTER NUMBER.

NO.	REVISIONS



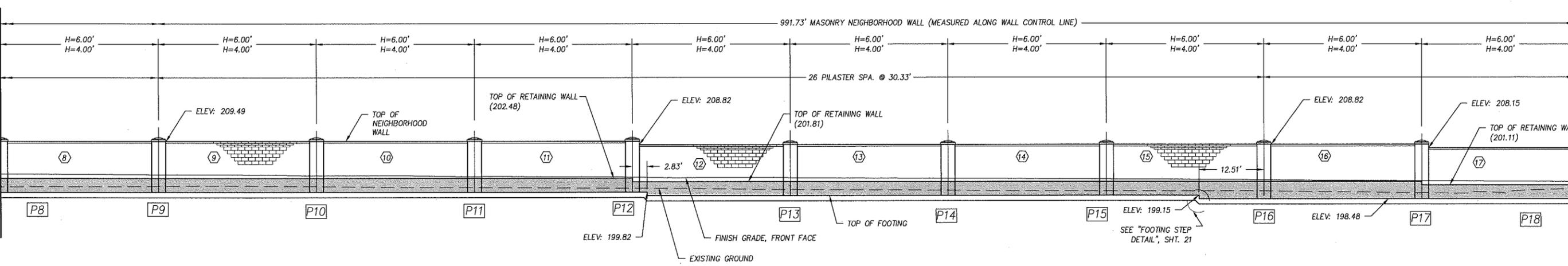
WALL PLAN FARMINGTON ROAD WALL 2 BEAVERTON, OREGON		
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. WP-06
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	

P:\WAS-24\WAS24-DWG\SLand Use Sheets\WAS24-WP-06.dwg



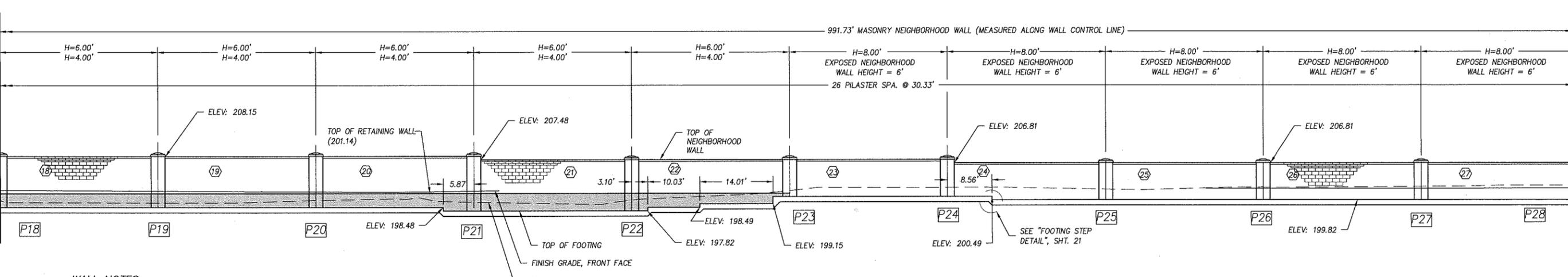
MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW



MATCHLINE - SEE ABOVE

MATCHLINE - SEE SHEET WP-08



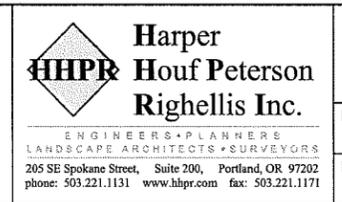
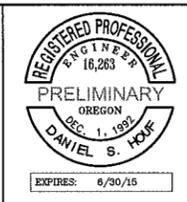
- WALL NOTES:**
- SEE ODOT STD. DWG. BR730 ON SHEET WP-03 FOR REINFORCEMENT AND EXPANSION JOINT DETAILS.
  - SEE SHEET WP-01 AND WP-02 FOR MASONRY WALL DETAILS.
  - STEP TOP OF RETAINING WALL AS REQUIRED.
  - (X) - DENOTES PANEL NUMBER.
  - ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (').
  - ALL HORIZONTAL DIMENSIONS ON PROFILE ARE BASED ON WALL CONTROL LINE AND @ PILASTER TO @ PILASTER.
  - (PX) - DENOTES PILASTER NUMBER.

**WALL 3 - PROFILE**  
SCALE: 1:10

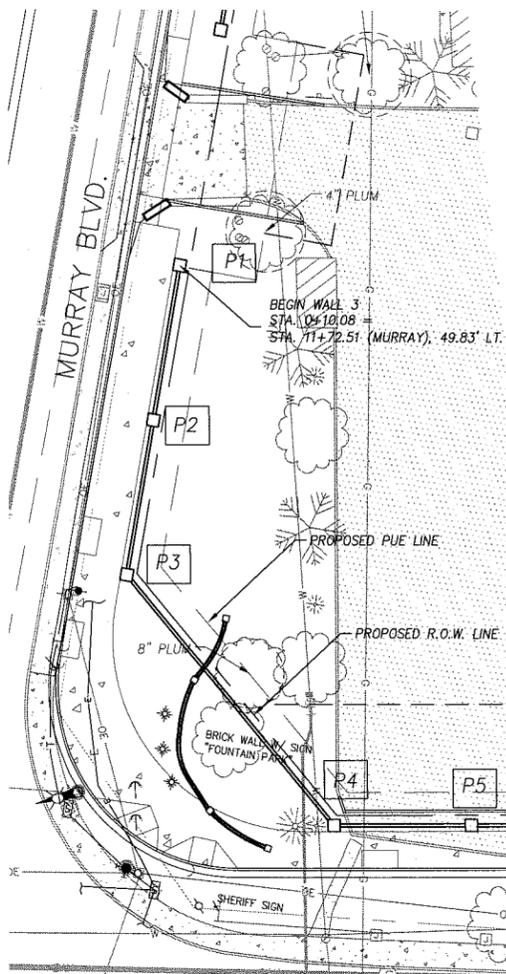
(NOTE: RETAINING WALL FACE IS EXPOSED TO PRIVATE PROPERTY)

**WALL PLAN**  
**FARMINGTON ROAD**  
**WALL 3**  
BEAVERTON, OREGON

NO.	REVISIONS



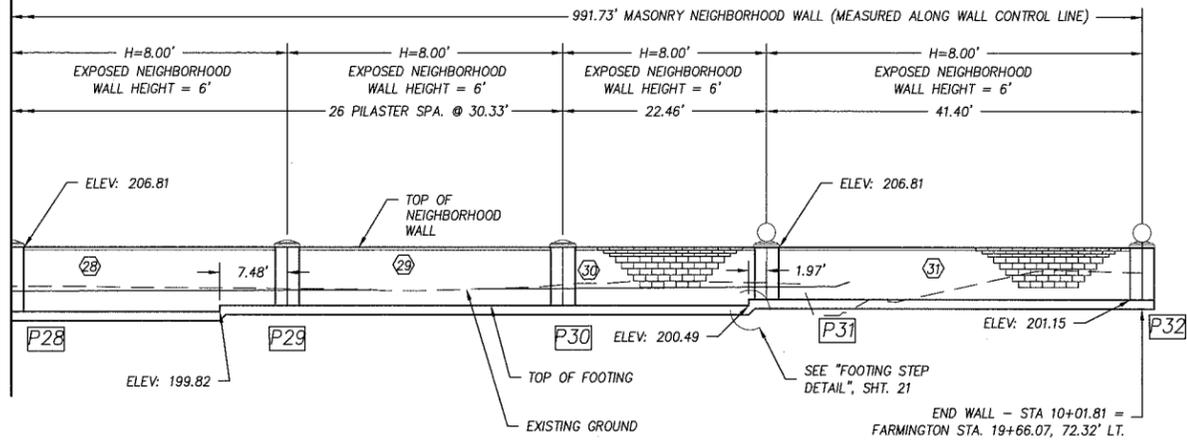
DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. WP-07
DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	



**WALL NOTES:**

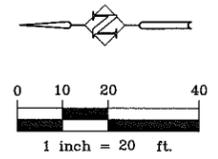
1. SEE ODOT STD. DWG. BR730 ON SHEET WP-03 FOR REINFORCEMENT AND EXPANSION JOINT DETAILS.
2. SEE SHEET WP-01 AND WP-02 FOR MASONRY WALL DETAILS.
3. STEP TOP OF RETAINING WALL AS REQUIRED.
4. (X) - DENOTES PANEL NUMBER.
5. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (').
6. ALL HORIZONTAL DIMENSIONS ON PROFILE ARE BASED ON WALL CONTROL LINE AND @ PILASTER TO @ PILASTER.
7. (PX) - DENOTES PILASTER NUMBER.

MATCHLINE - SEE SHEET WP-07



**WALL 3 - PROFILE**

SCALE : 1:10

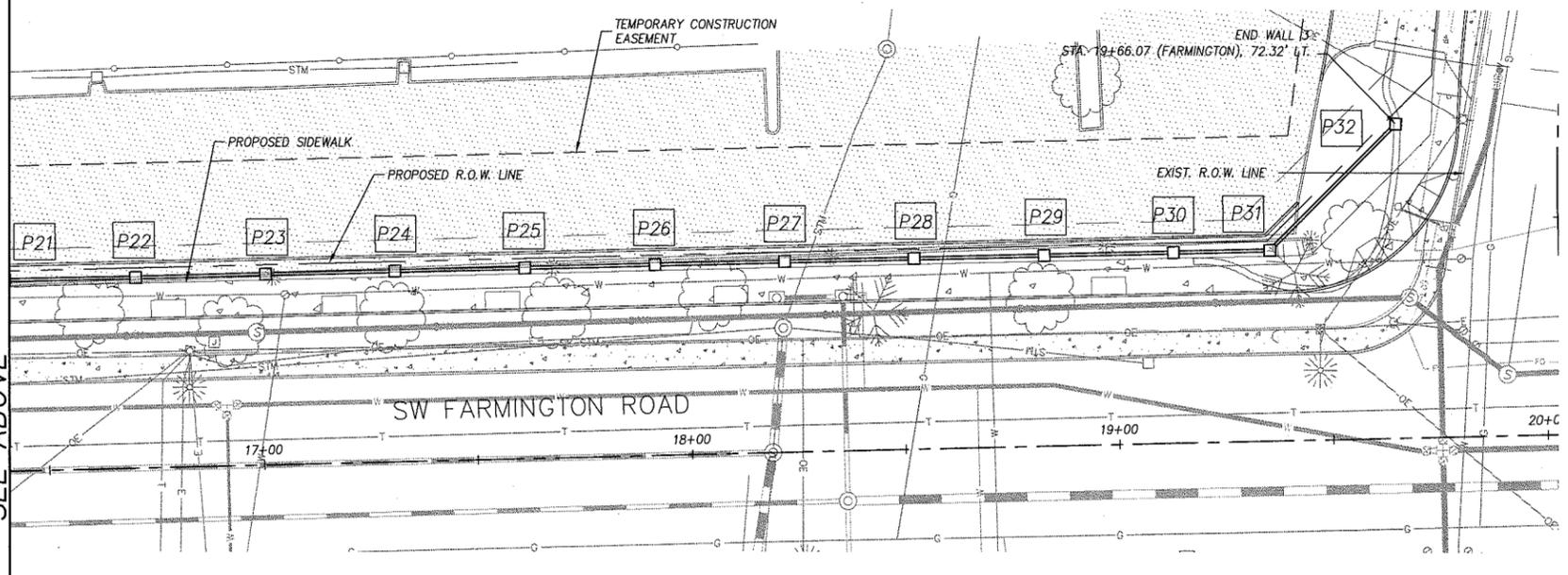


MATCHLINE - SEE BELOW

WALL DATA			
PILASTER	WALL STA.	ROAD STA.	OFFSET
P1	0+10.08	11+72.51 (M)	49.83' LT.
P2	0+44.18	12+06.61 (M)	49.83' LT.
P3	0+78.28	12+40.71 (M)	49.83' LT.
P4	1+49.33	11+24.52 (F)	60.83' LT.
P5	1+79.66	11+55.04 (F)	60.83' LT.
P6	2+09.99	11+85.56 (F)	60.82' LT.
P7	2+40.32	12+16.07 (F)	60.83' LT.
P8	2+70.65	12+46.59 (F)	60.83' LT.
P9	3+00.99	12+77.11 (F)	60.83' LT.
P10	3+31.32	13+07.63 (F)	60.83' LT.
P11	3+61.65	13+38.15 (F)	60.83' LT.
P12	3+91.99	13+68.52 (F)	60.83' LT.
P13	4+22.32	13+98.85 (F)	60.83' LT.
P14	4+52.65	14+29.14 (F)	59.33' LT.
P15	4+82.99	14+59.15 (F)	54.87' LT.
P16	5+13.32	14+89.11 (F)	50.11' LT.
P17	5+43.65	15+19.38 (F)	48.16' LT.
P18	5+73.99	15+49.67 (F)	46.68' LT.
P19	6+04.32	15+79.97 (F)	45.19' LT.
P20	6+34.65	16+10.27 (F)	43.80' LT.
P21	6+64.98	16+40.60 (F)	43.89' LT.
P22	6+95.31	16+70.93 (F)	43.79' LT.
P23	7+25.64	17+01.26 (F)	43.85' LT.

P24	7+55.97	17+31.59 (F)	43.82' LT.
P25	7+86.30	17+61.92 (F)	43.83' LT.
P26	8+16.63	17+92.25 (F)	43.84' LT.
P27	8+46.96	18+22.58 (F)	43.84' LT.
P28	8+77.29	18+52.91 (F)	43.83' LT.
P29	9+07.62	18+83.24 (F)	43.83' LT.
P30	9+37.95	19+13.57 (F)	43.82' LT.
P31	9+60.41	19+36.03 (F)	43.83' LT.
P32	10+01.81	19+66.07 (F)	72.32' LT.

MATCHLINE - SEE ABOVE



**WALL PLAN**

**FARMINGTON ROAD WALL 3**  
BEAVERTON, OREGON

M = MURRAY BOULEVARD STATIONING  
F = FARMINGTON ROAD STATIONING

NO.	REVISIONS

<p>DEPARTMENT OF LAND USE &amp; TRANSPORTATION ENGINEERING</p>	<p>CITY OF BEAVERTON ECONOMIC &amp; CAPITAL DEVELOPMENT Engineering Division</p>	<p>PRELIMINARY OREGON DEC. 1, 1999 DANIEL S. HOFF EXPIRES: 6/30/15</p>	<p>Harper Houf Peterson Righellis Inc. ENGINEERS • PLANNERS LANDSCAPE ARCHITECTS • SURVEYORS 205 SE Spokane Street, Suite 200, Portland, OR 97202 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171</p>	DESIGNED BY: DSH/HHPR TEAM	DRAFTED BY: HHPR TEAM	SHEET NO. <b>WP-08</b>
				DATE: OCTOBER 2013	PROJECT NUMBER: WAS-24	