



## Lake Oswego to Portland Transit Project

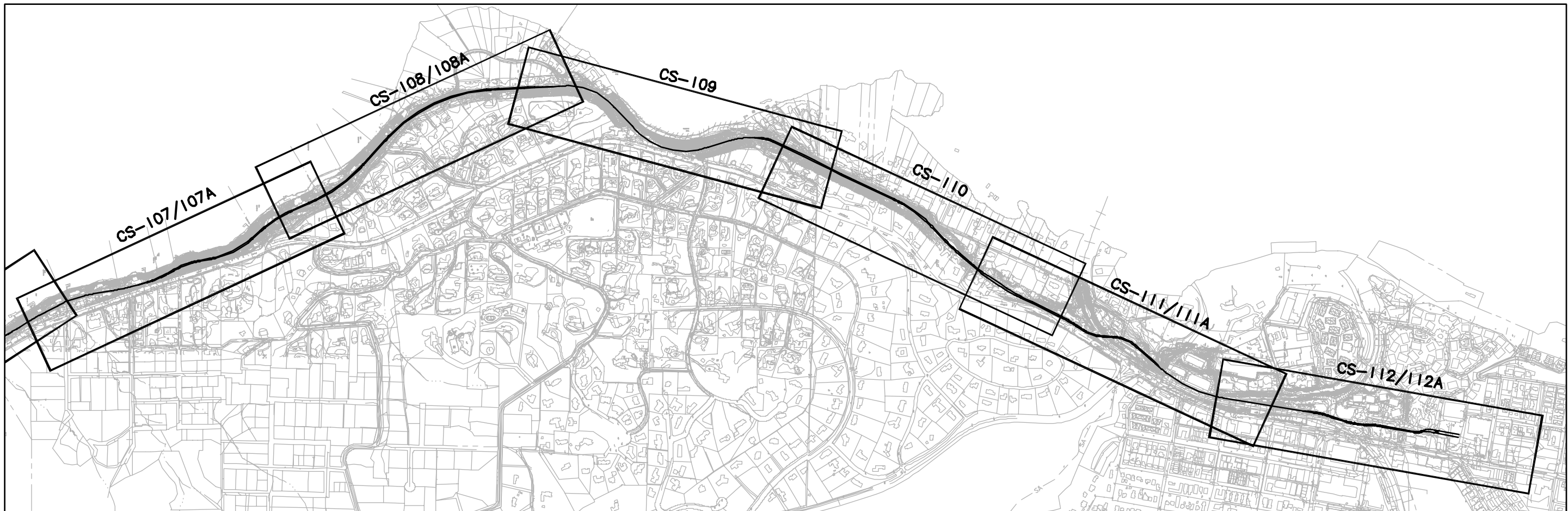
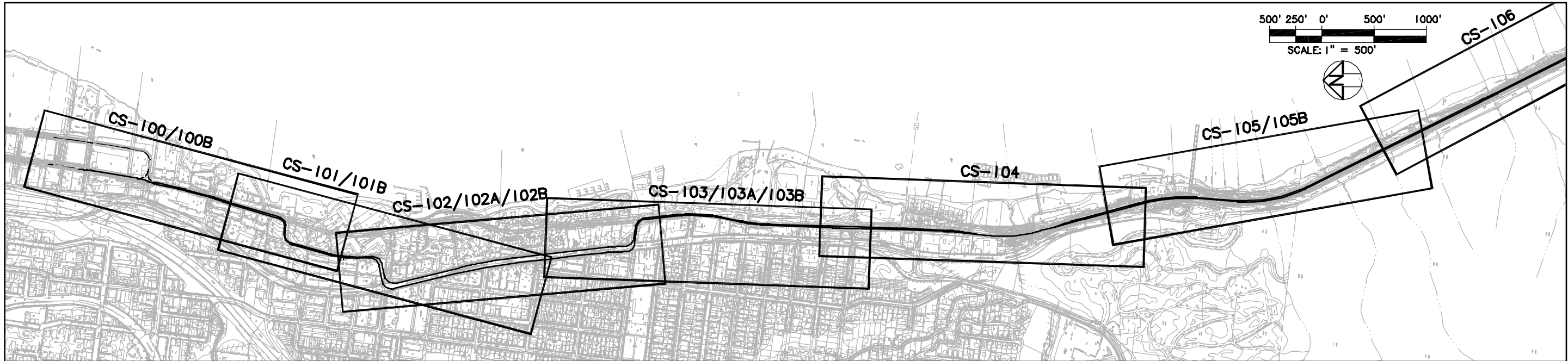
### Streetcar Plan Set

For Development of the  
Draft Environmental Impact Statement (DEIS)

November 9, 2009



U.S. Department  
of Transportation  
Federal Transit Administration  
Federal Highway Administration



O:\155695951 Lake Oswego to Portland Transit Project\155695951 Technical\2100\new\CS-010.dwg, 11/9/2009 5:22:38 PM

DEIS  
CONCEPT PLANS

CONTENTS  
SUBJECT TO  
CHANGE

**URS**

**LAKE OSWEGO TO PORTLAND**

SHEET INDEX LAYOUT PLAN

DWG NO.  
CS-010

SHEET NO.

C:\Users\9991.Lake Oswego to Portland Transit Project\1000 Technical\CD00new\CS-020.dwg, 11/9/2009 5:26:53 PM

Willamette Shore Line Right-Of-Way Track Crossings					
Sheet	Approximate Station	Public/Private	Description	Existing Crossing Treatment	Proposed Modification
CS-100B	1007+85	Private	Xing @ Access to Benz Springs	No Signage	Close driveway/consolidate
CS-100B	1010+00	Private	Xing @ Access to Riverforum	No Signage	Gated crossing
CS-100B	1015+75	Private	Xing @ SW Hamilton Ct.	Stop & RR Signs W/ Stop Bars	Stop sign controlled
CS-101B	1023+25	Private	Old Xing @ parking lot for demolished building	cross bucks	Close driveway
CS-101B	1026+00	Private	Streetcar on SW Landing Dr. Xing Ped/Bike path	ped scale stop sign	Channelized Z-crossing
CS-101B	1027+50-1028+40	Private	Multiple crossing of parking area for John's Landing Condominiums	Striping and signage	Reconfigure parking area and consolidate crossings. See sheet CS-102
CS-101B	1030+25	Private	Pedestrian crossing	No Signage	Active signal
CS-102B	1033+75	Private	Driveway to John's Landing Condominiums	No Signage	Stop sign controlled
CS-102B	1039+50	Private	Pedestrian Undercrossing under Jones trestle	No Signage	Trestle to be removed. Undercrossing replaced with at grade gated ped crossing
CS-102B	1048.+35	Private	Xing @ SW Pendleton	Stop sign	Traffic signal
CS-103B	1057+30	Public	Xing @ Carolina	Stop & RR Signs W/ Stop Bars	Traffic signal
CS-103B	1059+30	Private	Pedestrian Crossing- Jeff Construction Supply, currently used for overflow parking by Willamette sailing club	No Signage	Remove crossing and construct sidewalk to Carolina to maintain access
CS-103B	1062+75	Public	Xing @ Nebraska Access to Willamette Park	Striping and signage	traffic signal
CS-103B	1078+00	Public	Pedestrian Xing @ Nevada access to Willamette Park	No Signage	Stop sign and stop location
CS-104	5090+50	Public	Xing @ SW Miles St	Stop & RR Signs	Stop & RR signs
CS-104	5103+00	Private	Xing @ Macadam Bay	None standard RR Signal	Gated crossing
CS-105	5114+00	Private	Driveway/Access to top level of Staff Jennings	No signage	TBD- Pending public involvement process
CS-105	2001+36	Public	Staff Jennings Trestle	Trestle	No change
CS-106	2048+40	Private	Lewis and Clark Sailing Club	No Signage	TBD- Pending public involvement process
CS-106	2050+60	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2051+75	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2052+63	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2053+50	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2056+49	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2059+39	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2061+50	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2075+00	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-107	2076+75	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-108	2078+61	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-108	2081+81	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-108	2083+48	Private	Home access Xing	No Signage	TBD- Pending public involvement process
CS-108	2091+24	Public	Xing @ SW Riverwood Rd	None standard RR Signal	Stop sign and stop location
CS-110	2151+64	Public	Xing @ S Briarwood Rd	Trestle	No change
CS-111	3012+38	Public	Xing @ Stampher Rd	Trestle	Proposed Streetcar Alignment is relocated from current location. New gated at grade crossing of Stampher Road.
CS-111	3018+92	Private	Xing access road to Public Storage site(adjacent to existing RR tracks)	Gated Crossing (UPRR)	Adjust Gated Crossing to accommodate streetcar crossing.

Note:

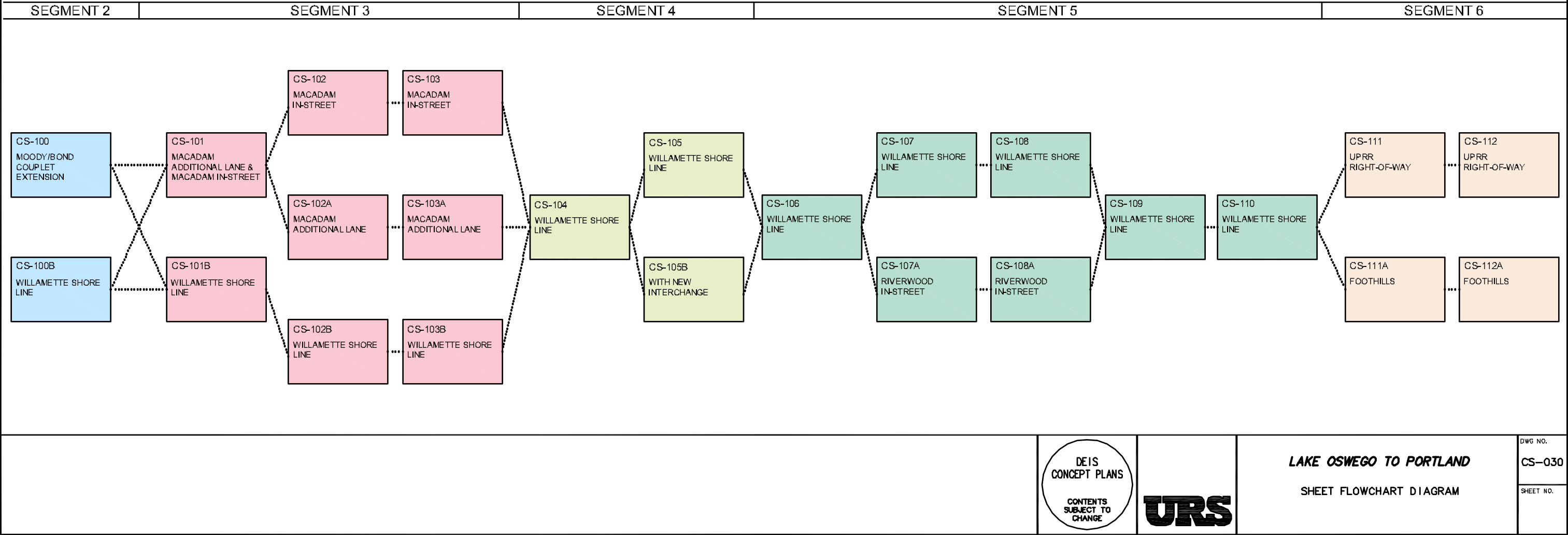
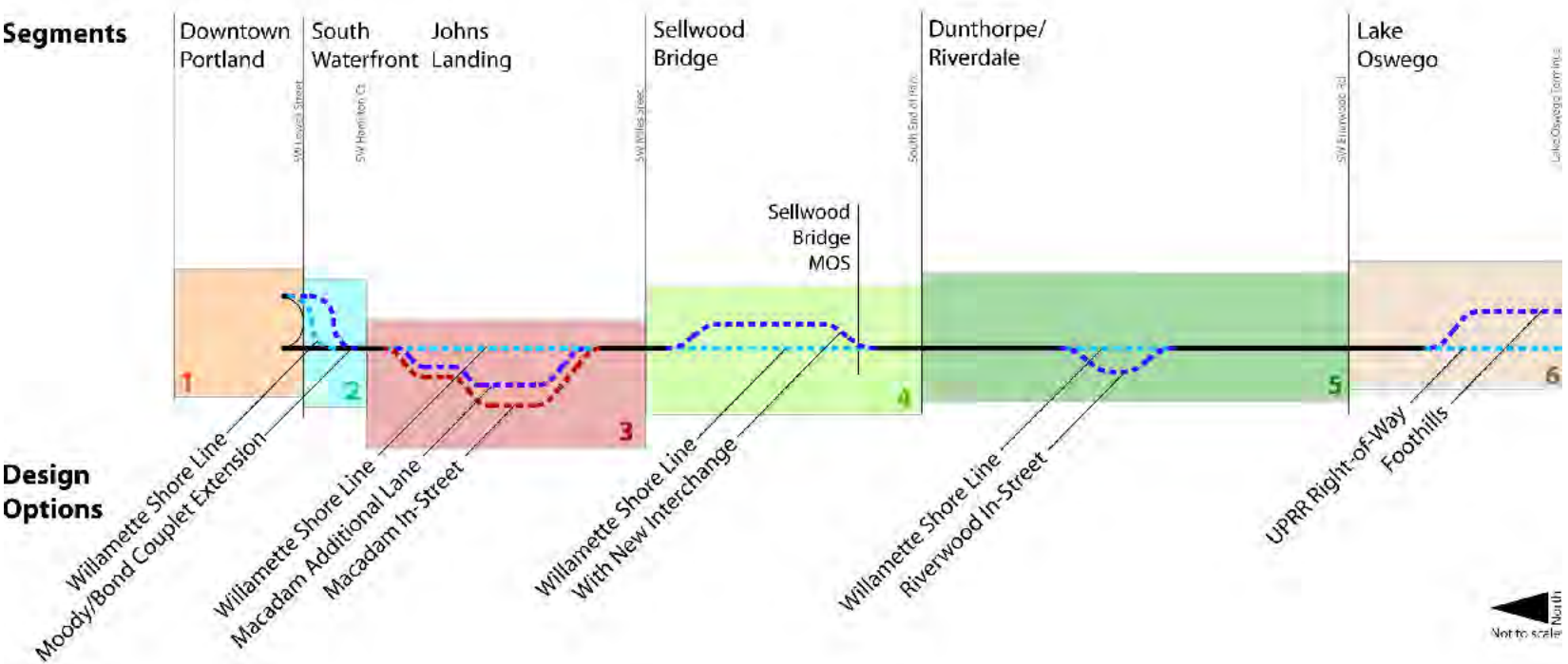
1. Table reflects public and private crossings of the streetcar track within the Willamette Shore Line right-of-way. Crossing within public right-of-way or new right-of-way for the in-street options are assumed to operate using the existing, new or modified traffic signals and signs. This applies to the Moody/Bond couplet, Macadam In-street, In-street Add lane and Foothills options.
2. Designs for the private crossing are being resolved in parallel public involvement process. Final resolutions will be reflected in subsequent design documents.



LAKE OSWEGO TO PORTLAND  
EXISTING PUBLIC AND PRIVATE  
CROSSING INVENTORY

DWG NO.  
CS-020  
SHEET NO.

Streetcar Alternative  
Segments & Design Options



DEIS  
CONCEPT PLANS  
CONTENTS  
SUBJECT TO  
CHANGE



LAKE OSWEGO TO PORTLAND  
SHEET FLOWCHART DIAGRAM

DWG NO.  
CS-030  
SHEET NO.



C:\Users\9991\OneDrive\Documents\Lake Oswego\Technical\CD\Drawings\CS-040.dwg, 11/19/2023 5:52:33 PM

Drainage Features Located in the Field									
Unique ID	Sheet Reference	No. of Culverts	Station <sup>4</sup>	Offset	Fish Habitat <sup>1</sup>	Dim.	Length	Water Presence	Improvements Required / Comment
1	CS-111	1	3017+00	0	Yes	8 ft x 8 ft	> 100 feet	Yes	Extg 8" x 8" culvert. Project to construct bridge.
2	CS-111	1	3002+71	0	No	< 12"	21 - 30 feet	No	Replace extg 12" x 12" box.
3	CS-111	1	3002+11	9' L	No	< 12"	Unknown	No	No impact expected.
4	CS-110	1	2146+50	0	No	< 12"	51 - 60 feet	No	Replace extg 12" dia.
5	CS-110	1	2139+47	0	No	< 12"	21 - 30 feet	No	Replace extg 12" dia; include CB.
6	CS-110	1	2135+50	0	No	< 12"	51 - 60 feet	Trickle	Replace extg 8" dia.
7	CS-109	1	2131+74	0	No	< 12"	11 - 20 feet	Trickle	Replace extg 12" x 12" box.
8	CS-109	1	2128+35	0	No	Unknown	Unknown	No	Headwall but no pipe found. Assume 12" dia.
9	CS-109	1	2108+88	0	No	24"	21 - 30 feet	Trickle	Assume connect to extg manhole.
10	CS-109	1	2107+12	0	No	< 12"	31 - 40 feet	No	Replace extg 12" dia parallel to tracks
11	CS-108	1	2096+34	4' R	No	< 12"	Unknown	Trickle	Extend culvert from road beneath tracks; manhole required.
12	CS-108	1	2093+58	0	No	< 12"	11 - 20 feet	No	Replace extg 6" dia with 12" diameter & CB.
13	CS-108	2	2090+92	1' R	No	36"	41 - 50 feet	Yes	Replace parallel culverts (2 x 40 ft) under Riverwood Rd
14	CS-108	1	2087+54	4' L	No	< 12"	Unknown	No	No impact expected.
15	CS-108	1	2087+60	0	No	24"	11 - 20 feet	No	Replace extg 12" x 24" box; include CB.
16	CS-108	1	2083+18	0	No	Unknown	Unknown	Yes	Culvert inaccessible, flowing water visible. Assume replacement of 36" dia for full ROW width due to double track.
17	CS-108	1	2079+64	0	No	24"	61 - 70 feet	Trickle	Replace extg 24" dia.
18	CS-107	1	2073+71	0	No	< 12"	Unknown	No	Daylighted perf pipe on west side of tracks at south end of long trestle. Assume incidental to standard ballast drainage design.
19	CS-107	1	2066+49	0	No	< 12"	21 - 30 feet	No	Replace extg 12" x 17" box; include CB.
20	CS-107	1	2066+13	6' L	No	< 12"	> 100 feet	No	Steep Pipe from Area Above Rail ROW. Assume 30 LF replacement due to regrading expected.
21	CS-107	1	2064+28	0	No	< 12"	11 - 20 feet	No	Replace extg 12" dia; include CB.
22	CS-107	1	2062+76	0	No	< 12"	41 - 50 feet	Trickle	Replace extg 8" dia with 12" dia.
23	CS-107	1	2062+61	0	No	< 12"	11 - 20 feet	Yes	Replace extg 8" dia with 12" dia. Some redundancy with Culvert 22.
24	CS-107	1	2058+57	0	No	< 12"	Unknown	Trickle	Replace extg 8" dia with 12" dia; include CB. Outlet not visible. Assume replacement of 12" dia skewed across ROW; include CB.
25	CS-107	1	2053+64	0	No	Unknown	Unknown	No	Debris-filled wooden CB w/ grate at driveway; no pipe visible. Assume replacement of 12" dia skewed across ROW; include CB.
26	CS-106	1	2045+27	0	No	< 12"	11 - 20 feet	No	Replace extg 12" x 12" box with 18" dia; include CB.
27	CS-106	1	2042+90	8' L	No	Unknown	Unknown	No	Replace extg 24" dia full ROW length; connect to extg upstream Hwy 43 pipe with a manhole. <b>UNKNOWN IF PARK IMPACT - CULVERT MAY EXTEND BEYOND ROW.</b>
28	CS-106	1	2039+94	0	No	24"	11 - 20 feet	No	Replace extg 12" x 24" box; include CB. <b>NO PARK IMPACT EXPECTED.</b>
29	CS-106	1	2037+35	10' L	No	36"	Unknown	Trickle	Replace extg 24" dia edge of ROW to toe of rail embankment; connect to extg upstream Hwy 43 pipe with a manhole. <b>LIKELY PARK IMPACT DUE TO CULVERT LOCATION.</b>
30	CS-106	1	2034+49	0	No	15"	21 - 30 feet	No	Replace extg 15" dia; include CB. <b>NO PARK IMPACT EXPECTED.</b>
31	CS-106	1	2033+39	0	No	< 12"	11 - 20 feet	No	Replace extg 8" dia with 12" dia; include CB. <b>NO PARK IMPACT EXPECTED.</b>
32	CS-106	1	2032+06	0	No	18"	21 - 30 feet	No	Replace extg 18" dia; include CB. <b>NO PARK IMPACT EXPECTED.</b>
33	CS-106	1	2032+02	12' L	No	< 12"	Unknown	No	No impact expected.
34	CS-106	1	2026+04	43' R	No	18"	91 - 100 feet	No	No impact expected.
35	CS-106	1	2025+99	37' R	No	18"	91 - 100 feet	No	No impact expected.
36	CS-106	1	2025+86	0	No	48"	31 - 40 feet	Yes	Replace extg 48" x 48" wood box with 36" dia; include CB. <b>NO PARK IMPACT EXPECTED.</b>
37	CS-105	1	2020+97	1' L	No	< 12"	Unknown	Yes	No impact expected.
38	CS-105	1	2020+87	0	No	< 12"	> 100 feet	Trickle	Replace extg 12" dia; include CB. <b>PARK IMPACT IS EXPECTED - EXTG CULVERT EXTENDS PAST ROW.</b>
39	CS-105	1	2016+78	0	No	24"	41 - 50 feet	Yes	Replace extg 24" dia; connect to extg Hwy 43 pipe with manhole. <b>NO PARK IMPACT EXPECTED.</b>
40	CS-105	1	2009+46	0	No	24"	21 - 30 feet	Yes	Replace extg 24" dia; include CB. <b>NO PARK IMPACT EXPECTED.</b>
41	CS-105	1	2009+41	5' L	No	18"	Unknown	Yes	No impact expected.
42	CS-105	1	2007+37	1' R	No	< 12"	Unknown	Trickle	No impact expected.
43	CS-105	1	2007+23	0	No	18"	31 - 40 feet	Trickle	Replace extg 18" dia; include CB. <b>NO PARK IMPACT EXPECTED.</b>
44	CS-105	1	2006+35	0	No	< 12"	11 - 20 feet	No	Replace extg 12" dia; include CB. <b>NO PARK IMPACT EXPECTED.</b>
45	CS-105	1	2004+88	0	No	18"	21 - 30 feet	No	Replace extg 12" x 18" wood box with 18" dia; include CB. <b>POTENTIAL PARK IMPACT DUE TO ROW LOCATION AT TOP OF BANK.</b>
46	CS-104	2	1093+43	0	Yes	48"	> 100 feet	Yes	Project to avoid impacts to existing culverts. Caveat: mitigation may be constructed by Sellwood Bridge

Indicates facilities located within Powers Marine Park

Notes

- <sup>1</sup> Initial assessment pending agency review.
- <sup>2</sup> Refer to "Cost Est." and "Unit Costs" spreadsheet tabs for cost back up and assumptions.
- <sup>3</sup> Project is expected to construct bridge over Tryon Creek; therefore, there is no incremental cost increase for drainage improvements.
- <sup>4</sup> Project developed following the existing Willamette Shoreline (WSL) alignment. If the in-road alignment is selected, the table needs to be revised.

Drainage Features Located in the Field									
Unique ID	Sheet Reference	No. of Culverts	Station <sup>4</sup>	Offset	Fish Habitat <sup>1</sup>	Dim.	Length	Water Presence	Improvements Required / Comment
47	CS-103B	1	1076+57	10' L	No	< 12"	11 - 20 feet	No	Piped drainage from parking lot. Add CB, extend new 12" dia to connect to Willamette Park storm system.
48	CS-103B	1	1075+68	5' L	No	< 12"	11 - 20 feet	No	Piped drainage from parking lot. Add CB, extend new 12" dia to connect to Willamette Park storm system.
49	CS-103B	1	1072+61	0	No	< 12"	11 - 20 feet	No	Upgradient and rail corridor drainage. Add CB, pipe to new MH on extg storm pipe crossing under rail (see Unique ID
50	CS-103B	1	1067+24	0	No	< 12"	11 - 20 feet	No	Replace 3" PVC w/ 12" dia. No CB, daylight outlet in depression in grass area.
51	CS-103B	1	1062+32	0	No	12"	Unknown	No	Replace 12" wood box w/ 15" dia. Add shallow MH and attach to existing pipe upstream at ROW.
52	CS-103B	1	1062+01	0	No	< 12"	11 - 20 feet	No	Trolley stop will eliminate need for this pipe.
53	CS-103B	1	1059+77	0	No	24"	11 - 20 feet	No	Replace extg 12" x 24" box w/ 18" dia.; include flow CB/ditch inlet to pick up trackside ditch and Culvert 54 extension (included herein). Daylight to extg depression.
54	CS-103B	1	1059+65	0	No	< 12"	Unknown	No	Extg 10" dia under storage tracks. Extension of this included in Culvert 53, above.
55	CS-102B	1	1052+34	6' L	No	< 12"	Unknown	No	Add 12" pipe with CB to pick up upgradient pipe outfall, extend to MH in Riverpoint Ln.
56	CS-100B	1	1017+89	0	No	< 12"	81 - 90 feet	Trickle	Relocate/replace extg 10" dia with 12" dia; include CB/ditch inlet to pick up ditch drainage per current

Other Drainage Features Identified on Record Drawings or Located in the Field				
Unique ID	Sheet Reference	Station	Offset	Improvements Required / Comment
A	CS-110	2150+50	11' L	Small stream flowing to south on west side of track embankment. Channel located outside of ROW; no impact
B	CS-110	2142+88	29' L	Low point along west side of tracks; no evidence/record of drainage facilities. No drainage problems evident - assume
C	CS-107	2056+25	0	Evidence of ponding visible west side of tracks. Assume track design will include subgrade drainage to prevent ponding in or adjacent to ballast.
D	CS-107	2052+78	0	Gravel-filled sump along west side of tracks; no pipe found. Single track this location, expect no impact to this feature.
E	CS-106	2035+95	0	Mapped culvert/pipe under tracks not found in Powers Marine Park. No impact expected.
F	CS-105	2023+07	0	Mapped culvert/pipe under tracks not found in Powers Marine Park. No impact expected.
G	CS-105	2022+09	0	Evidence of ponding visible west side of tracks. Assume track design will include subgrade drainage to prevent ponding in or adjacent to ballast.
H	CS-104	1106+98	0	Mapped culvert/pipe under tracks not found. Evidence of ponding visible west side of tracks. Assume track design will include subgrade drainage to prevent ponding in or
I	CS-104	1102+48	0	Mapped culvert/pipe under tracks not found; boulder-lined low point with no identified drainage features. Add new 12"
J	CS-104	1098+50	0	Extg 3" PVC pipe from under wall. Assume track design will include subgrade drainage to accommodate minor inflows. No impact expected.
K	CS-103B	1075+93	0	Mapped pipe under tracks and CB not found. No impact expected.
L	CS-103B	1072+93	0	Mapped pipe under tracks not found. Debris-filled elevated ditch inlet with no pipe found. Improvements identified
M	CS-102B	1049+32	0	Mapped pipe under tracks not found. Found mapped downstream manhole in Riverpoint Ln. No impact expected.
N	CS-102B	1048+21	0	2 CB's at Pendleton St crossing; replace both, assume 30 ft of 12" dia for reconnections.
O	CS-102B	1033+45	0	CB at Boundary St crossing; replace, and assume 30 ft of 12" dia for reconnections.
P	CS-100B	1019+02	0	Replace extg ditch inlet due to double track construction; assume 30 ft of 12" pipe for reconnection.
Q	CS-100B	1015+66	0	2 CB's at Hamilton St crossing; replace both, assume 30 ft of 12" dia for reconnections.
R	CS-100B	1009+75	0	2 CB's at River Forum private road crossing; replace, and assume 30 ft of 12" dia for reconnections.
S	CS-100B	1007+64	0	Trackside culvert, and sewer and storm manholes east of extg tracks. Grade crossing culverts and existing utility impacts will be addressed elsewhere

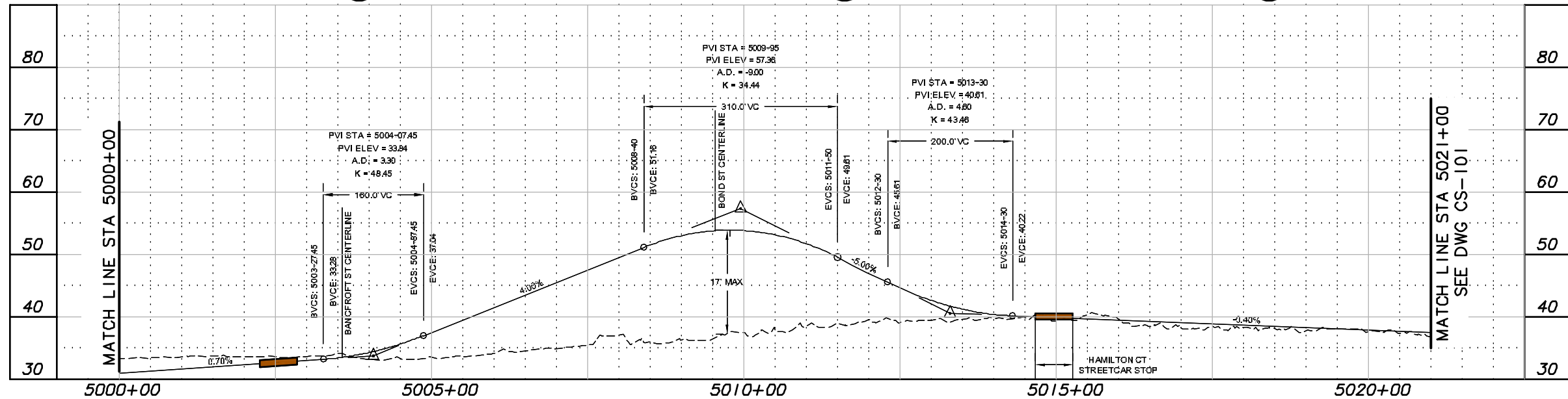
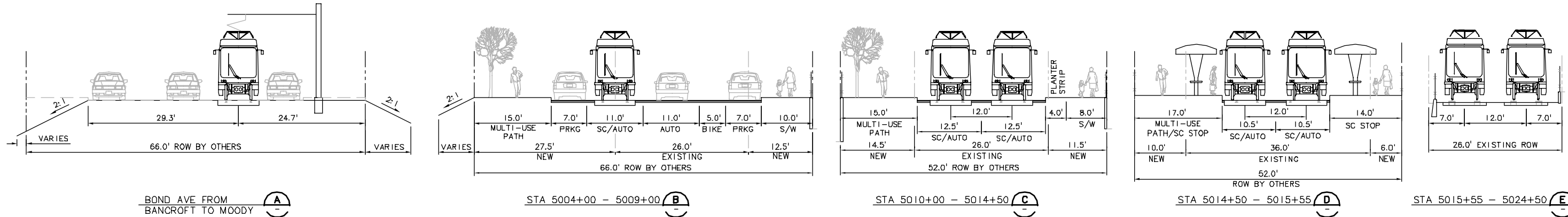
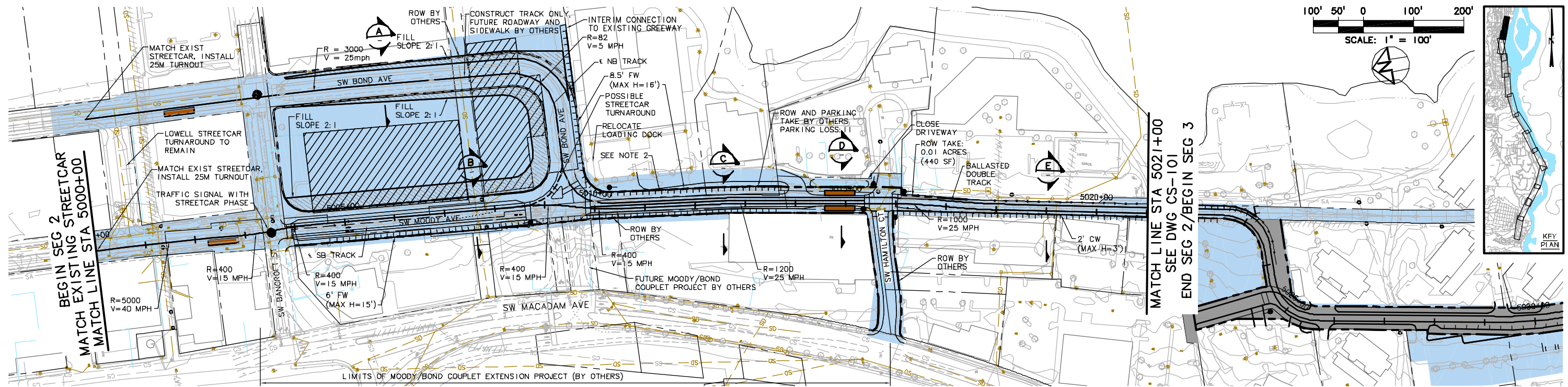


LAKE OSWEGO TO PORTLAND

EXISTING CULVERT AND DRAINAGE INVENTORY

DWG NO.  
CS-040  
SHEET NO.

C:\155695951 Lake Oswego to Portland Transit Project\155695951 Technical\CD\DWG\CS-100.dwg, 11/19/2009 5:29:12 PM

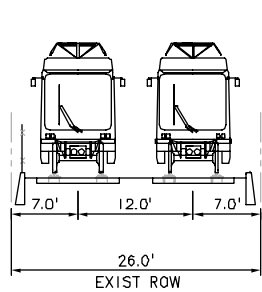
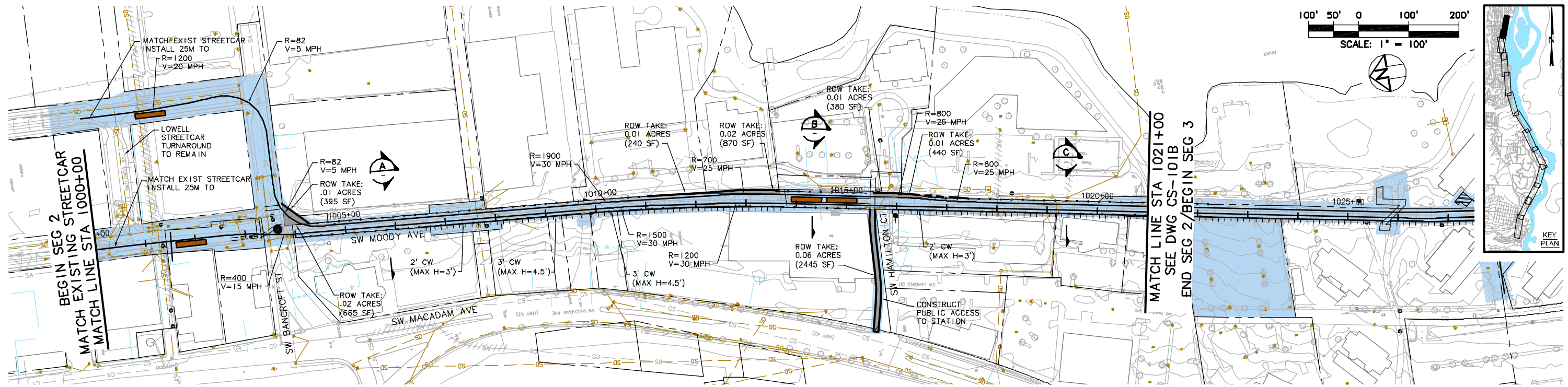


NOTE:  
1. PROPOSED MOODY SECTIONS BETWEEN BANCROFT AND HAMILTON CT. WERE PROVIDED BY CITY OF PORTLAND ADOPTED IN SOUTH WATERFRONT DISTRICT STREET PLAN, CRITERIA AND STANDARDS.  
2. RETAINING WALL LOCATION MAY IMPACT EXISTING UNDERGROUND PARKING STRUCTURE VENTILATOR AT THIS LOCATION. FINAL LOCATION OF WALL MAY BE ADJUSTED TO AVOID RECONSTRUCTION OF UNDERGROUND STRUCTURE IN THE SUBSEQUENT DESIGN STAGE ONCE THE LPA IS SELECTED.

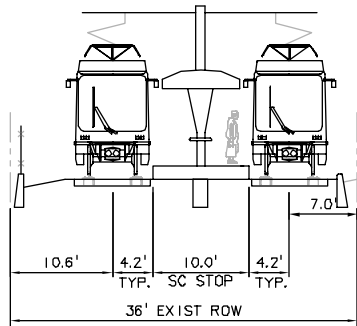
LEGEND		STRUCTURES		EXISTING SEWER LINES		EXISTING STORM LINES		EXISTING WATER LINES		CONSTRUCTION LIMITS		FREIGHT TRACKS		PROPERTY TAKE		FILL AREA		DEIS CONCEPT PLANS		CONTENTS SUBJECT TO CHANGE		LAKE OSWEGO TO PORTLAND		PLAN AND PROFILE		MOODY/BOND COUPLET EXTENSION		OPTION		DWG NO.		CS-100		SHEET NO.	
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	EXISTING SEWER LINES	---	EXISTING STORM LINES	---	EXISTING WATER LINES	---	CONSTRUCTION LIMITS	---	FREIGHT TRACKS	---	PROPERTY TAKE	---	FILL AREA	---	DEIS CONCEPT PLANS	---	CONTENTS SUBJECT TO CHANGE	---	LAKE OSWEGO TO PORTLAND	---	PLAN AND PROFILE	---	MOODY/BOND COUPLET EXTENSION	---	OPTION	---	DWG NO.	---	CS-100	---	SHEET NO.	---
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	---	EXISTING SEWER LINES	---	EXISTING STORM LINES	---	EXISTING WATER LINES	---	CONSTRUCTION LIMITS	---	FREIGHT TRACKS	---	PROPERTY TAKE	---	FILL AREA	---	DEIS CONCEPT PLANS	---	CONTENTS SUBJECT TO CHANGE	---	LAKE OSWEGO TO PORTLAND	---	PLAN AND PROFILE	---	MOODY/BOND COUPLET EXTENSION	---	OPTION	---	DWG NO.	---	CS-100	---	SHEET NO.	---
NEW TRAFFIC SIGNALS	●	ROADWAY RECONSTRUCT	---	EXISTING SEWER LINES	---	EXISTING STORM LINES	---	EXISTING WATER LINES	---	CONSTRUCTION LIMITS	---	FREIGHT TRACKS	---	PROPERTY TAKE	---	FILL AREA	---	DEIS CONCEPT PLANS	---	CONTENTS SUBJECT TO CHANGE	---	LAKE OSWEGO TO PORTLAND	---	PLAN AND PROFILE	---	MOODY/BOND COUPLET EXTENSION	---	OPTION	---	DWG NO.	---	CS-100	---	SHEET NO.	---



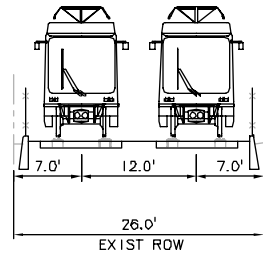
C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-1000\Drawings\CS-1000.dwg, 11/9/2025 5:07:51 PM



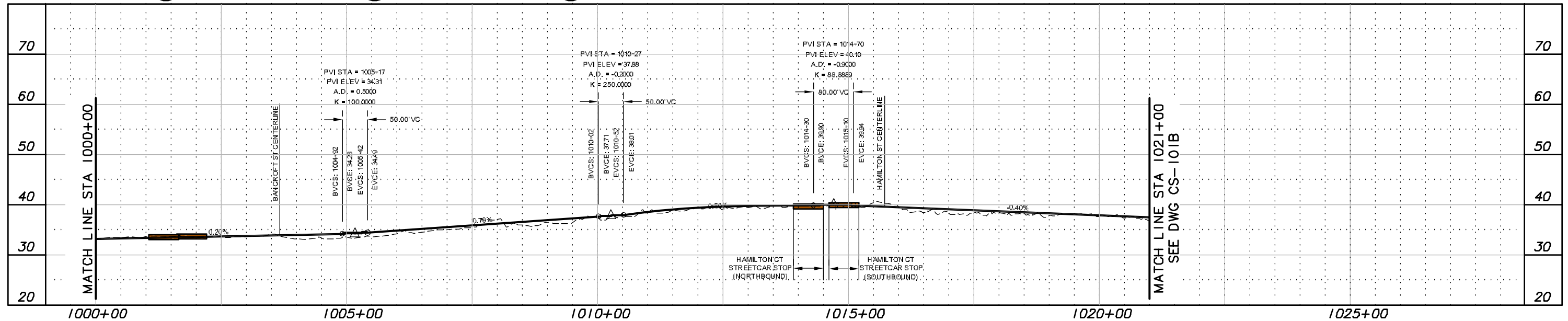
STA 1004+00 - 1013+70 **A**



STA 1013+70 - 1015+50 **B**



STA 1015+50 - 1034+75 **C**



LEGEND									
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	STRUCTURES	— — — — —	EXISTING SEWER LINES	— — — — — SA	CONSTRUCTION LIMITS	— — — — —
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	— — — — —	WALLS	— — — — —	EXISTING STORM LINES	— — — — — SD	FREIGHT TRACKS	— — — — —
NEW TRAFFIC SIGNALS	●	GATED CROSSINGS	— — — — —	ROW TAKE	— — — — —	EXISTING WATER LINES	— — — — — W	PROPERTY TAKE	— — — — —
		ROADWAY RECONSTRUCT	— — — — —					FILL AREA	— — — — —

**DEIS CONCEPT PLANS**

CONTENTS SUBJECT TO CHANGE

**LAKE OSWEGO TO PORTLAND**

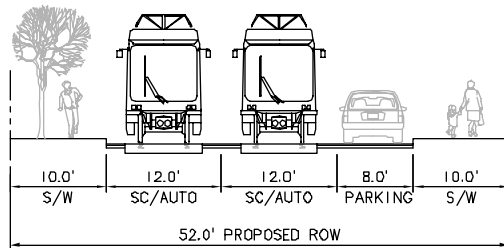
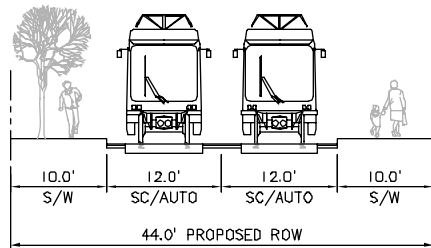
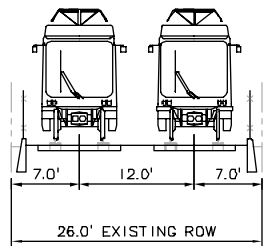
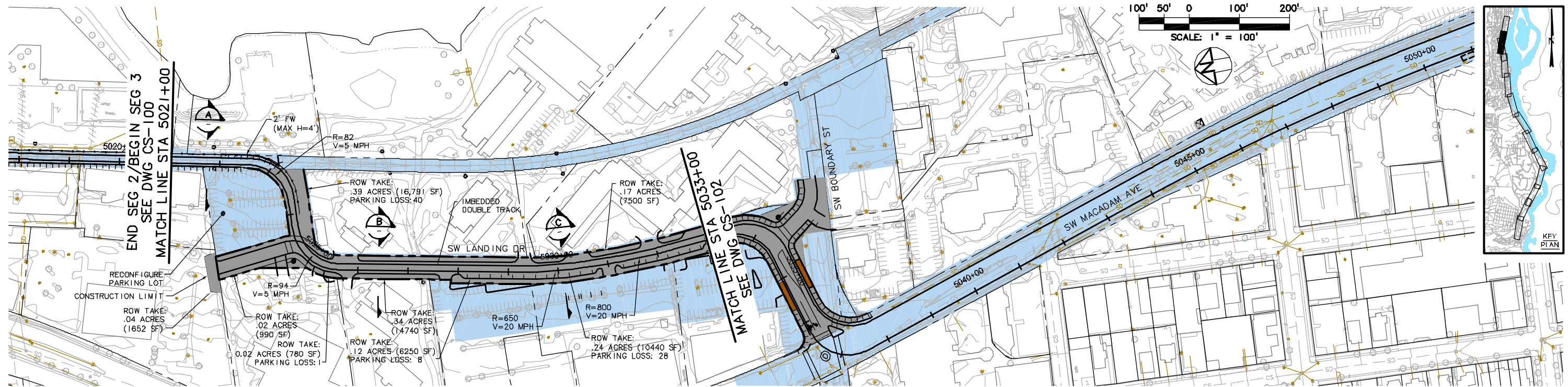
PLAN AND PROFILE

WSL OPTION

DWG NO. CS-1000

SHEET NO.

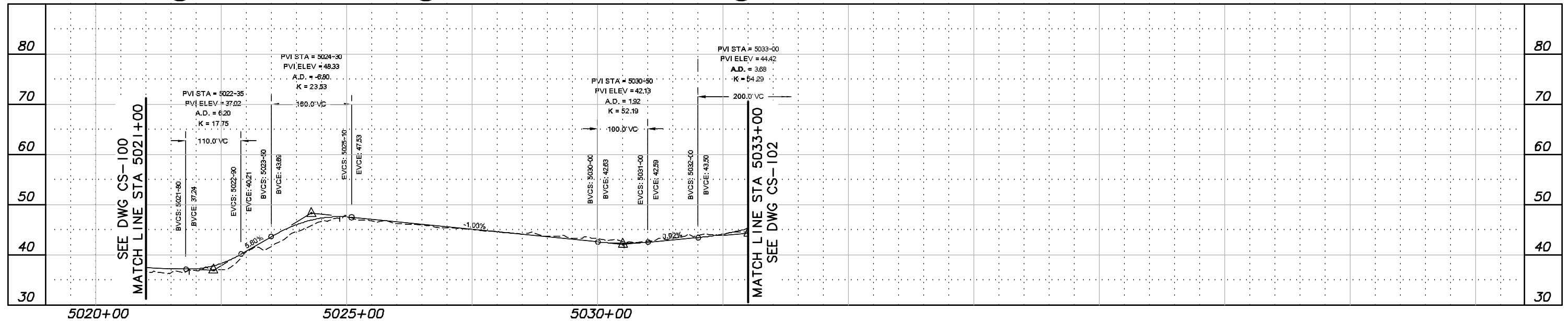
C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-100\DWG\11/19/2019 5:28:21 PM



STA 5015+55 - 5024+50 (A)

STA 5024+50 - 5028+00 (B)

STA 5028+00 - 5034+00 (C)



LEGEND										DWG NO.	
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	EXISTING SEWER LINES	---	SA	CONSTRUCTION LIMITS	---	SA	CS-101	
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	—+—+—+—	EXISTING STORM LINES	---	SO	FREIGHT TRACKS	---	SO	SHEET NO.	
NEW TRAFFIC SIGNALS	●	GATED CROSSINGS	—+—+—+—	EXISTING WATER LINES	---	W	PROPERTY TAKE	---	W		
		ROADWAY RECONSTRUCT	---				FILL AREA	---	W		

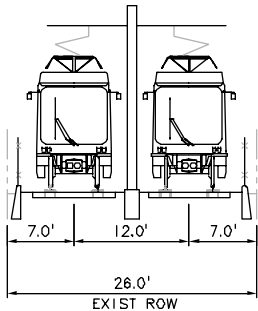
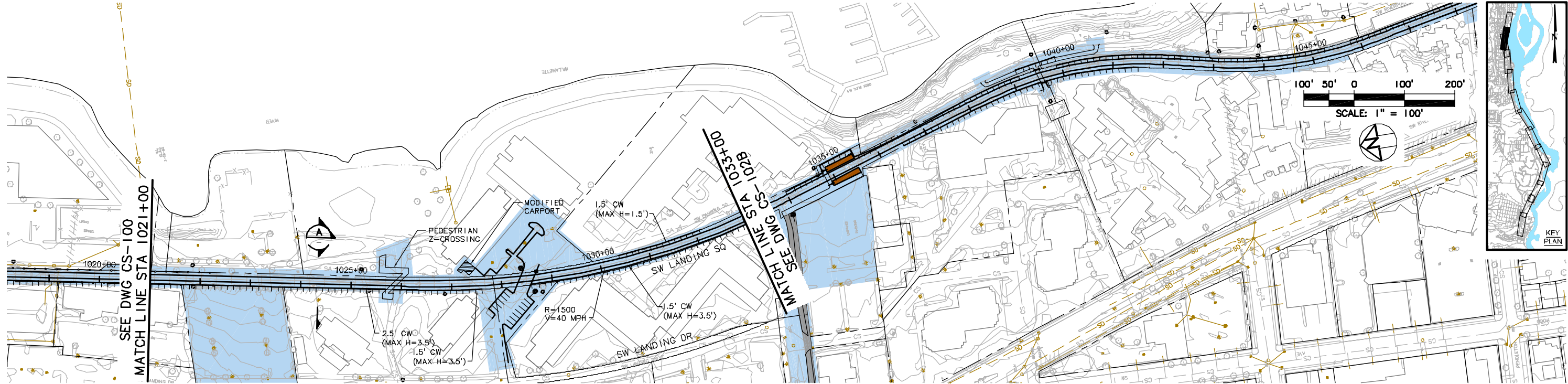
DEIS  
CONCEPT PLANS  
CONTENTS  
SUBJECT TO  
CHANGE

URS

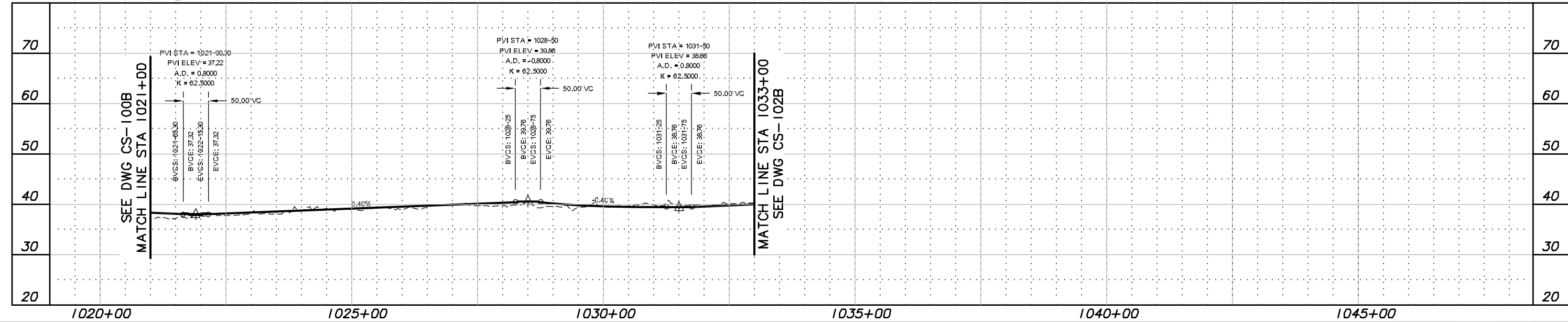
LAKE OSWEGO TO PORTLAND  
PLAN AND PROFILE  
MACADAM ADDITIONAL LANE AND IN-STREET  
OPTION



C:\Users\jg551\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-101B\DWG\CS-101B.dwg, 11/9/2018 5:38 PM



STA 1015+50 - 1034+75



<b>LEGEND</b>	STOP SIGN	STRUCTURES	EXISTING SEWER LINES	CONSTRUCTION LIMITS
EXISTING TRAFFIC SIGNALS	FENCE	WALLS	EXISTING STORM LINES	FREIGHT TRACKS
MODIFIED TRAFFIC SIGNALS	GATED CROSSINGS	ROW TAKE	EXISTING WATER LINES	PROPERTY TAKE
NEW TRAFFIC SIGNALS	ROADWAY RECONSTRUCT			FILL AREA

DEIS CONCEPT PLANS

CONTENTS SUBJECT TO CHANGE

**LAKE OSWEGO TO PORTLAND**

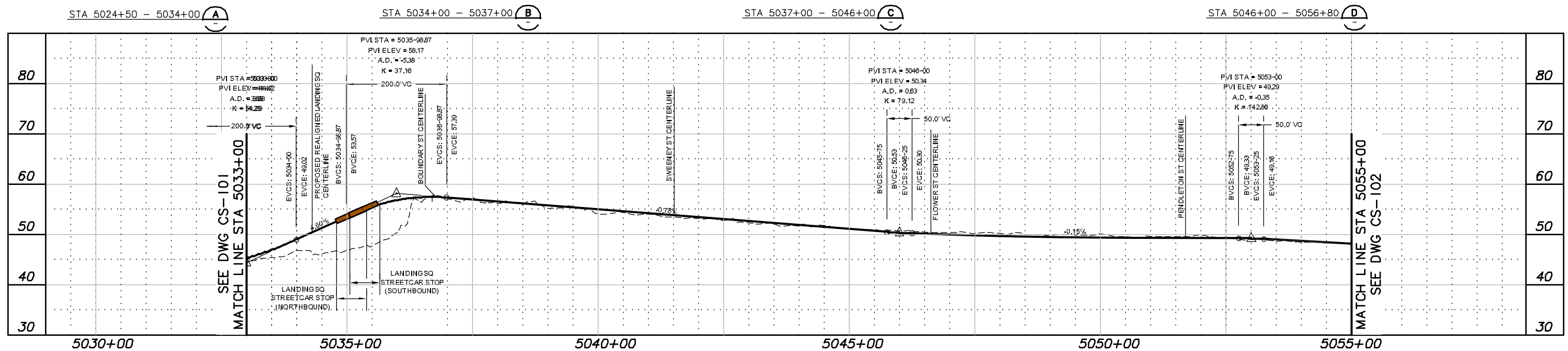
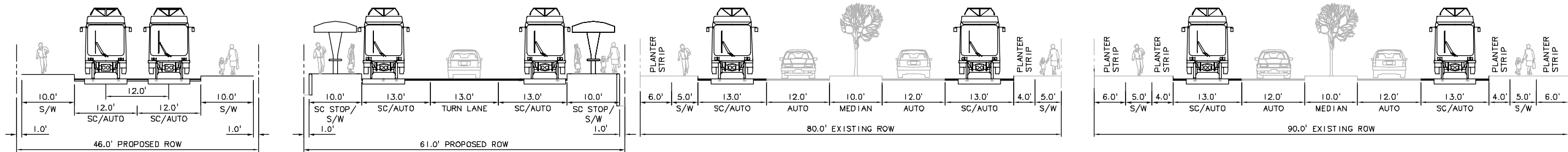
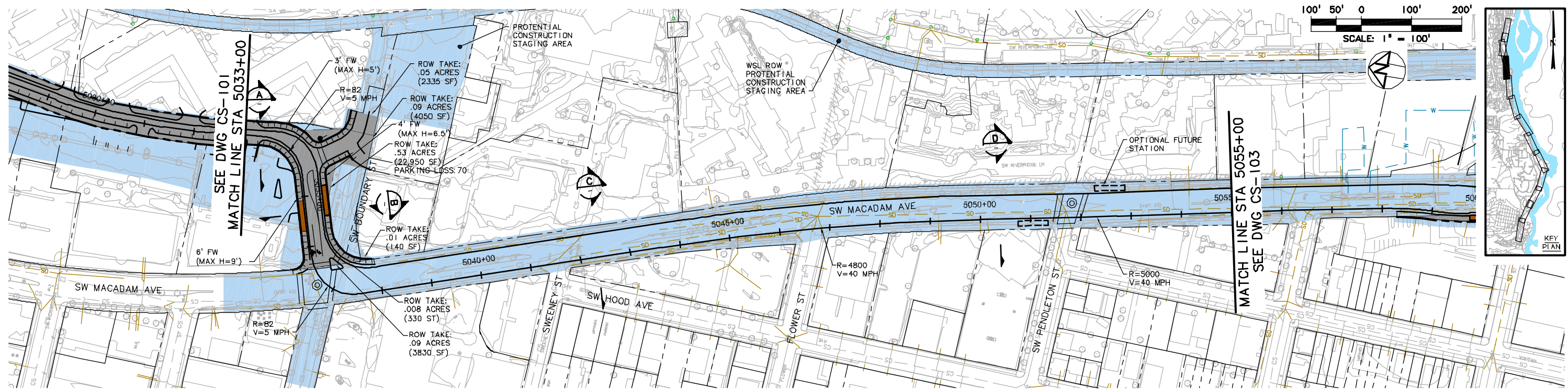
PLAN AND PROFILE

WSL OPTION

DWG NO. CS-101B

SHEET NO.

C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-102.dwg, 11/19/2019 5:36:25 PM



LEGEND		STOP SIGN		FENCE		STRUCTURES		EXISTING SEWER LINES		EXISTING STORM LINES		EXISTING WATER LINES		CONSTRUCTION LIMITS		FREIGHT TRACKS		PROPERTY TAKE		FILL AREA		DEIS CONCEPT PLANS		LAKE OSWEGO TO PORTLAND		PLAN AND PROFILE		MACADAM IN STREET		OPTION	
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	FENCE	—	STRUCTURES	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	LAKE OSWEGO TO PORTLAND	—	PLAN AND PROFILE	—	MACADAM IN STREET	—	OPTION	
MODIFIED TRAFFIC SIGNALS	⊙	GATED CROSSINGS	—	ROADWAY RECONSTRUCT	—	WALLS	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	LAKE OSWEGO TO PORTLAND	—	PLAN AND PROFILE	—	MACADAM IN STREET	—	OPTION	
NEW TRAFFIC SIGNALS	●	ROADWAY RECONSTRUCT	—	ROADWAY RECONSTRUCT	—	WALLS	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	LAKE OSWEGO TO PORTLAND	—	PLAN AND PROFILE	—	MACADAM IN STREET	—	OPTION	

LEGEND

STOP SIGN

FENCE

STRUCTURES

EXISTING SEWER LINES

EXISTING STORM LINES

EXISTING WATER LINES

CONSTRUCTION LIMITS

FREIGHT TRACKS

PROPERTY TAKE

FILL AREA

DEIS CONCEPT PLANS

CONTENTS SUBJECT TO CHANGE

URS

LAKE OSWEGO TO PORTLAND

PLAN AND PROFILE

MACADAM IN STREET

OPTION

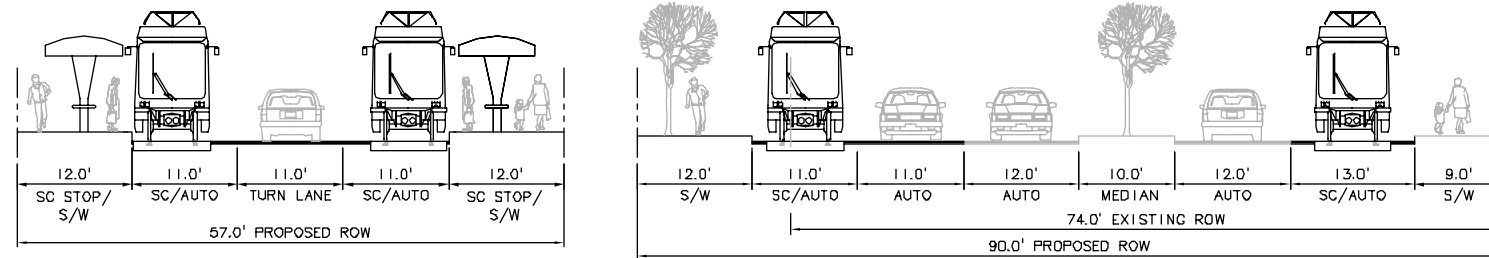
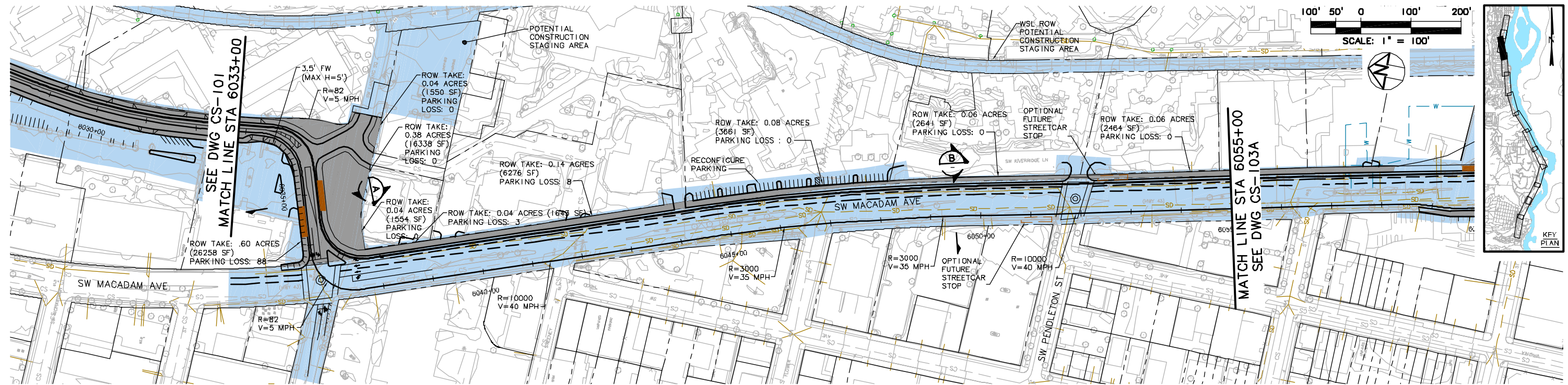
DWG NO.

CS-102

SHEET NO.

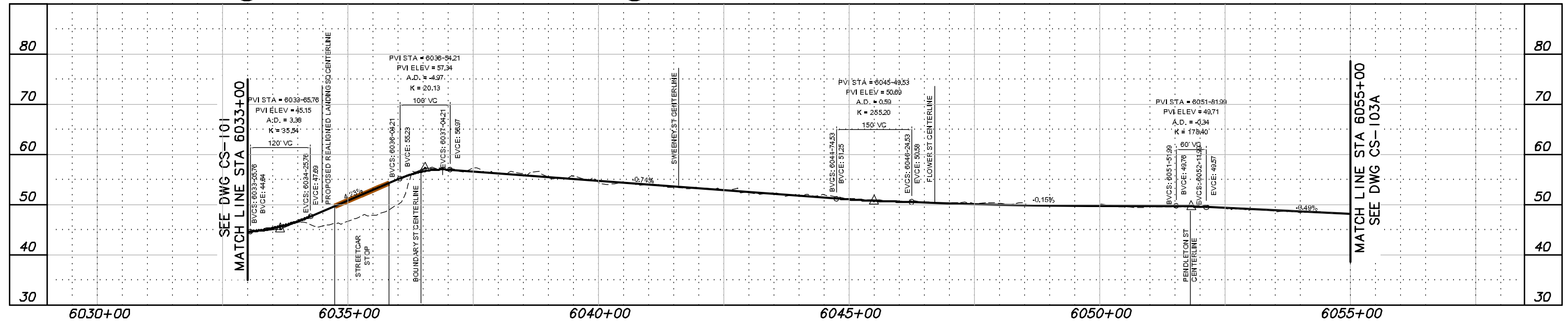


C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CD\Drawings\CS-102A.dwg, 11/9/2023 5:32:38 PM



STA 6034+00 - 6037+00 (A)

STA 6037+00 - 6058+00 (B)



<b>LEGEND</b>	STOP SIGN	STRUCTURES	EXISTING SEWER LINES	CONSTRUCTION LIMITS
EXISTING TRAFFIC SIGNALS	FENCE	WALLS	EXISTING STORM LINES	FREIGHT TRACKS
MODIFIED TRAFFIC SIGNALS	GATED CROSSINGS	ROW TAKE	EXISTING WATER LINES	PROPERTY TAKE
NEW TRAFFIC SIGNALS	ROADWAY RECONSTRUCT			FILL AREA

DEIS CONCEPT PLANS

CONTENTS SUBJECT TO CHANGE

LAKE OSWEGO TO PORTLAND

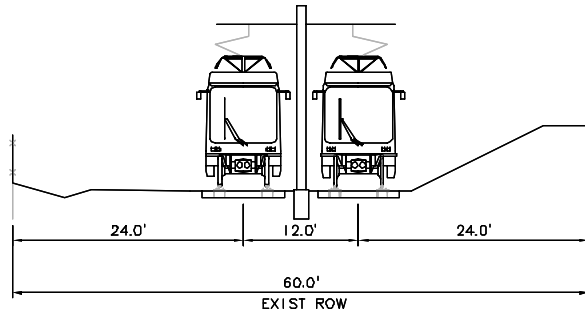
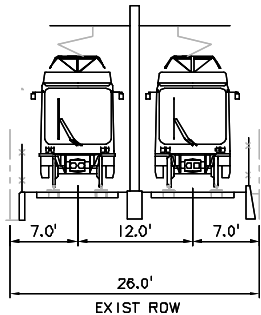
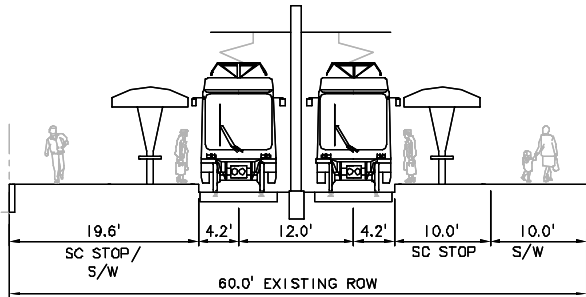
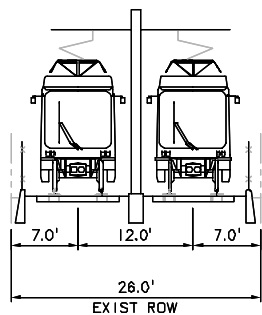
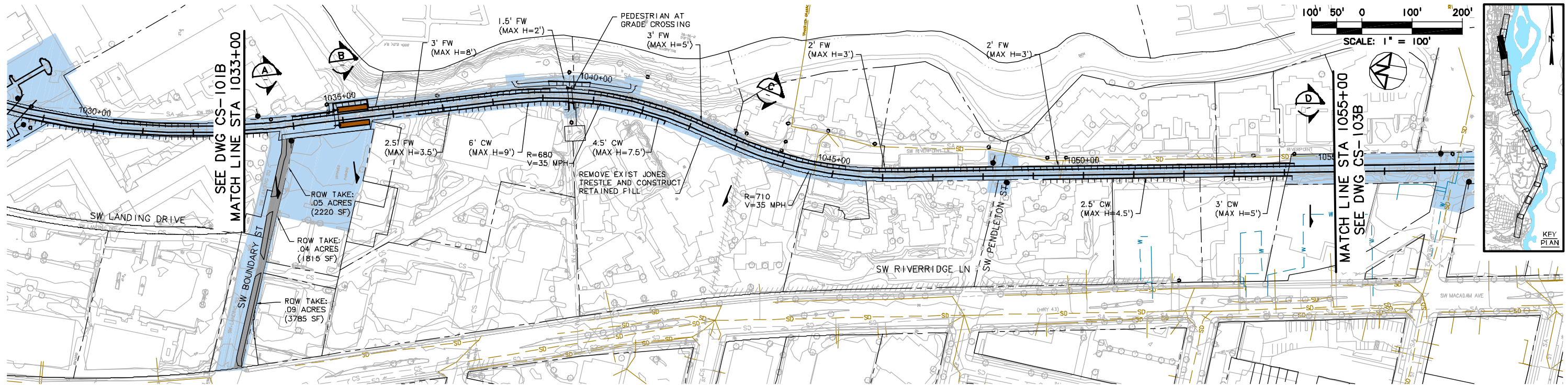
PLAN AND PROFILE

MACADAM ADDITIONAL LANE OPTION

DWG NO. CS-102A

SHEET NO.

C:\Users\jg951\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-102B\Drawings\CS-102B.dwg, 11/9/2024 5:37:10 PM

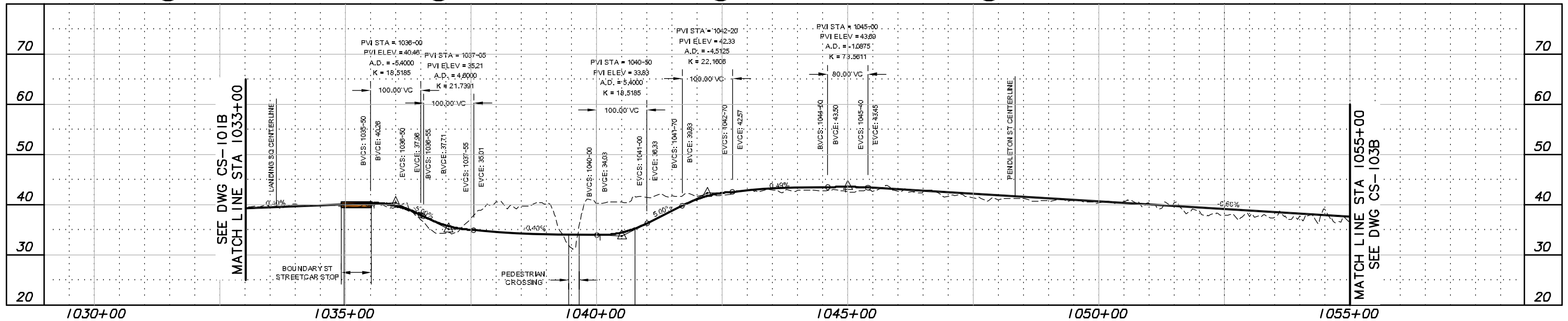


STA 1015+50 - 1034+75 (A)

STA 1034+75 - 1035+60 (B)

STA 1035+60 - 1054+10 (C)

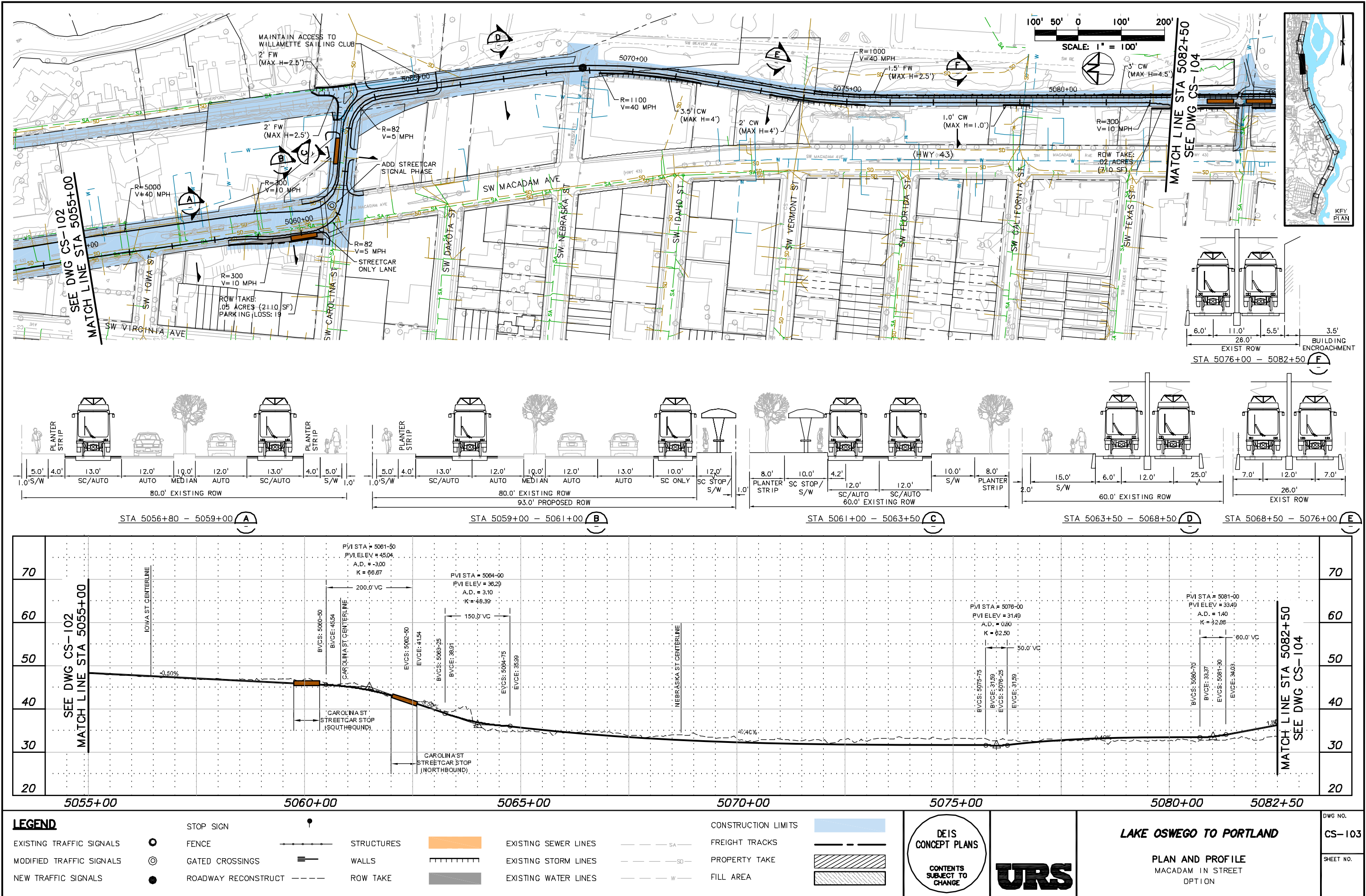
STA 1054+00 - 1057+00 (D)

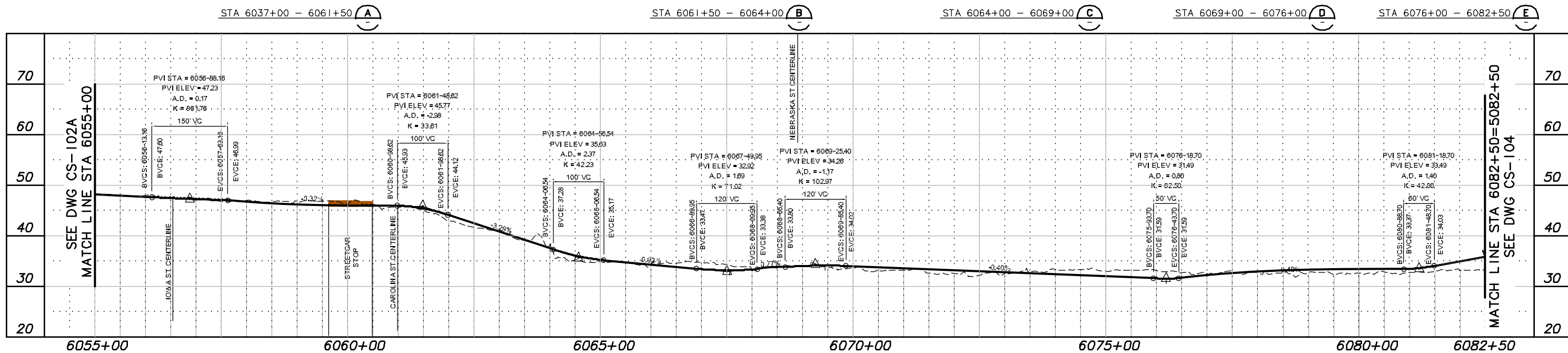
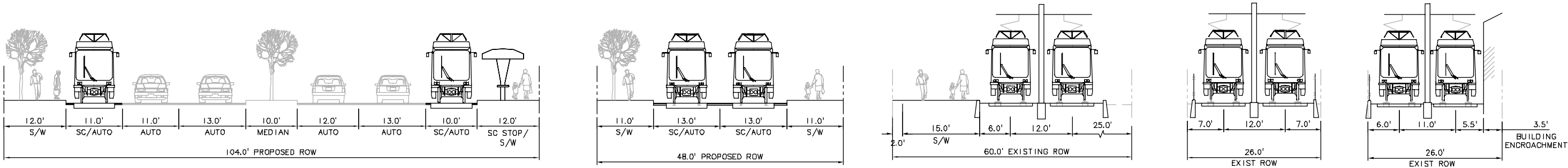
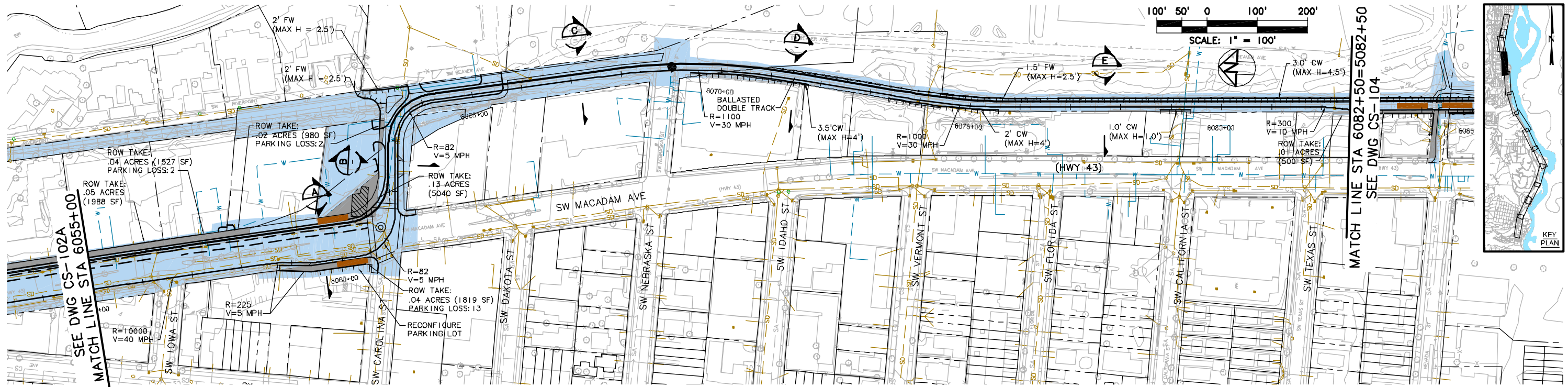


LEGEND		STOP SIGN		FENCE		STRUCTURES		WALLS		ROW TAKE		EXISTING SEWER LINES		EXISTING STORM LINES		EXISTING WATER LINES		CONSTRUCTION LIMITS		FREIGHT TRACKS		PROPERTY TAKE		FILL AREA		DEIS CONCEPT PLANS		CONTENTS SUBJECT TO CHANGE		UR		LAKE OSWEGO TO PORTLAND		PLAN AND PROFILE		WSL OPTION		DWG NO. CS-102B		SHEET NO.	
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	FENCE	—	STRUCTURES	—	WALLS	—	ROW TAKE	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	CONTENTS SUBJECT TO CHANGE	—	UR	LAKE OSWEGO TO PORTLAND	PLAN AND PROFILE	WSL OPTION	DWG NO. CS-102B	SHEET NO.						



C:\125695931 Lake Oswego to Portland Transit Project\15000 Technical\CD\DWG\CS-103.dwg, 11/9/2009 5:37:46 PM



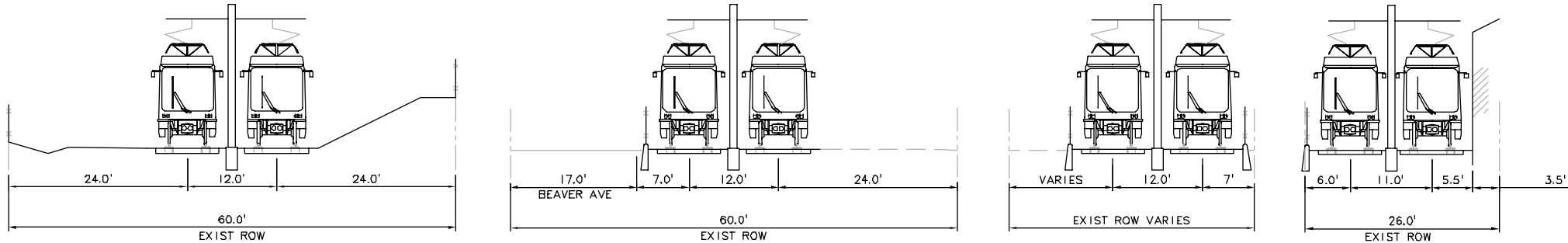
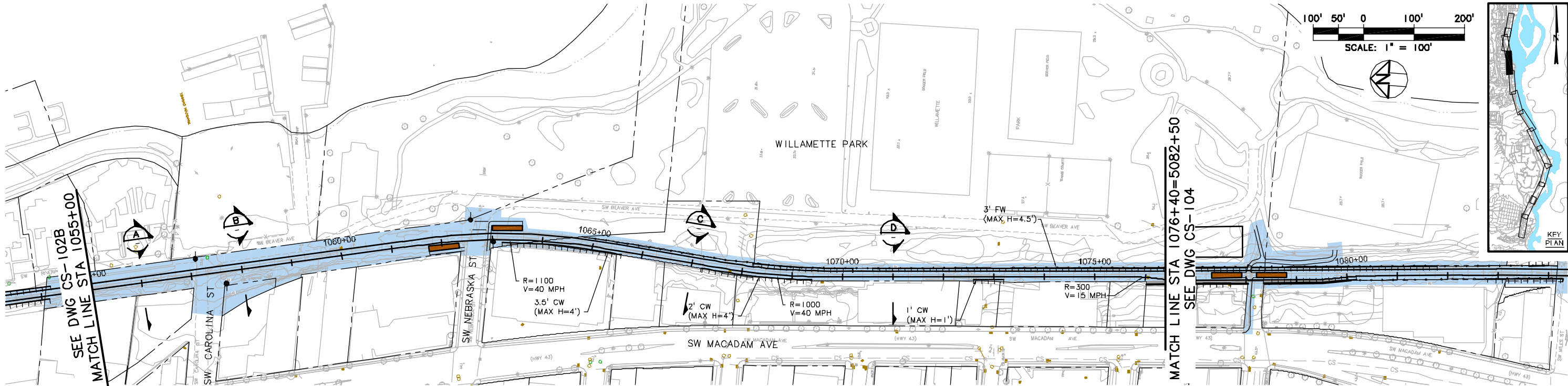


LEGEND		STOP SIGN		FENCE		STRUCTURES		EXISTING SEWER LINES		EXISTING STORM LINES		EXISTING WATER LINES		CONSTRUCTION LIMITS		FREIGHT TRACKS		PROPERTY TAKE		FILL AREA		DEIS CONCEPT PLANS		CONTENTS SUBJECT TO CHANGE		LAKE OSWEGO TO PORTLAND		PLAN AND PROFILE		MACADAM ADDITIONAL LANE OPTION		DWG NO.		CS-103A		SHEET NO.	
EXISTING TRAFFIC SIGNALS	●	STOP SIGN	■	FENCE	—	STRUCTURES	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	CONTENTS SUBJECT TO CHANGE	—	LAKE OSWEGO TO PORTLAND	—	PLAN AND PROFILE	—	MACADAM ADDITIONAL LANE OPTION	—	DWG NO.	—	CS-103A	—	SHEET NO.	





C:\Users\jg951\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CD\Drawings\CS-103B.dwg, 11/9/2025 5:38:55 PM

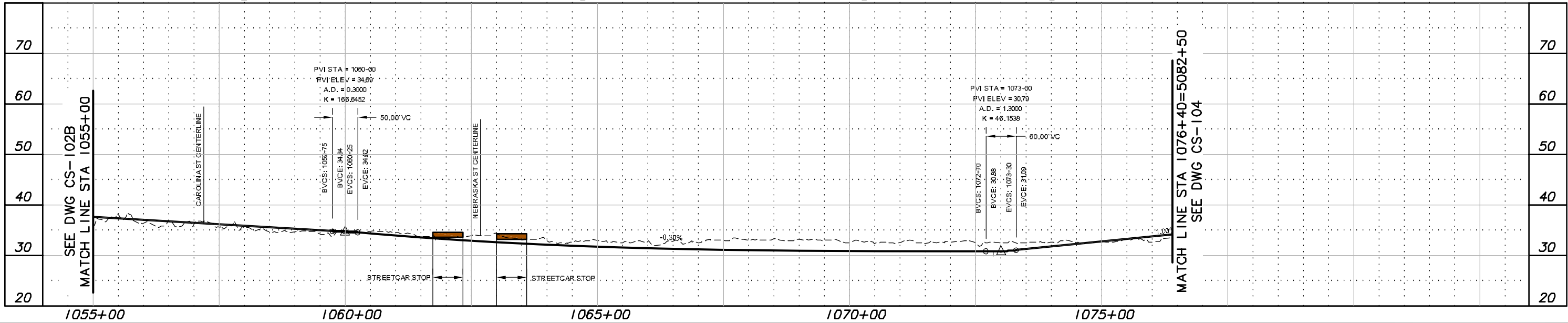


STA 1054+00 - 1057+00 **A**

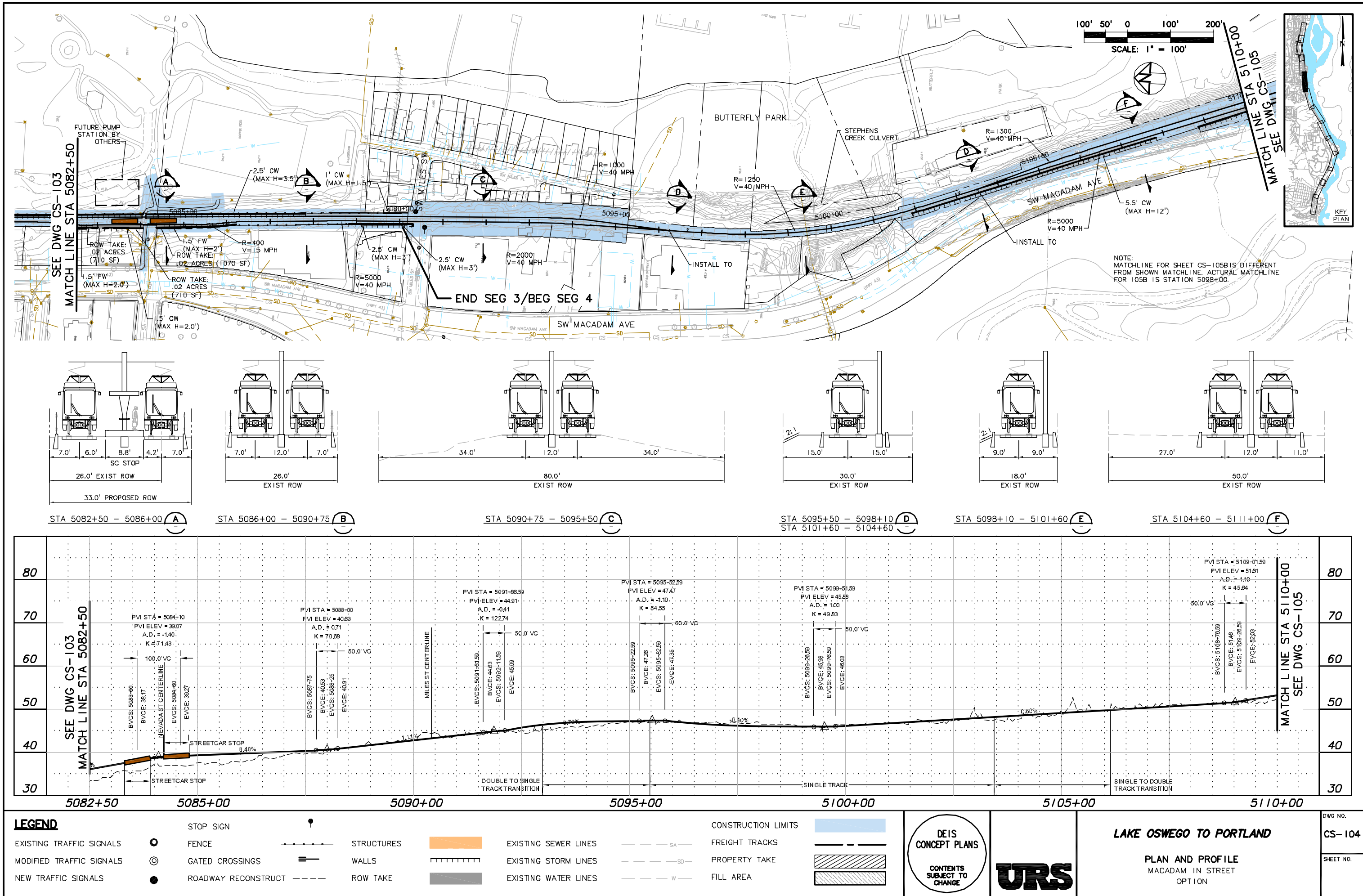
STA 1057+00 - 1062+50 **B**

STA 1062+50 - 1068+00 **C**

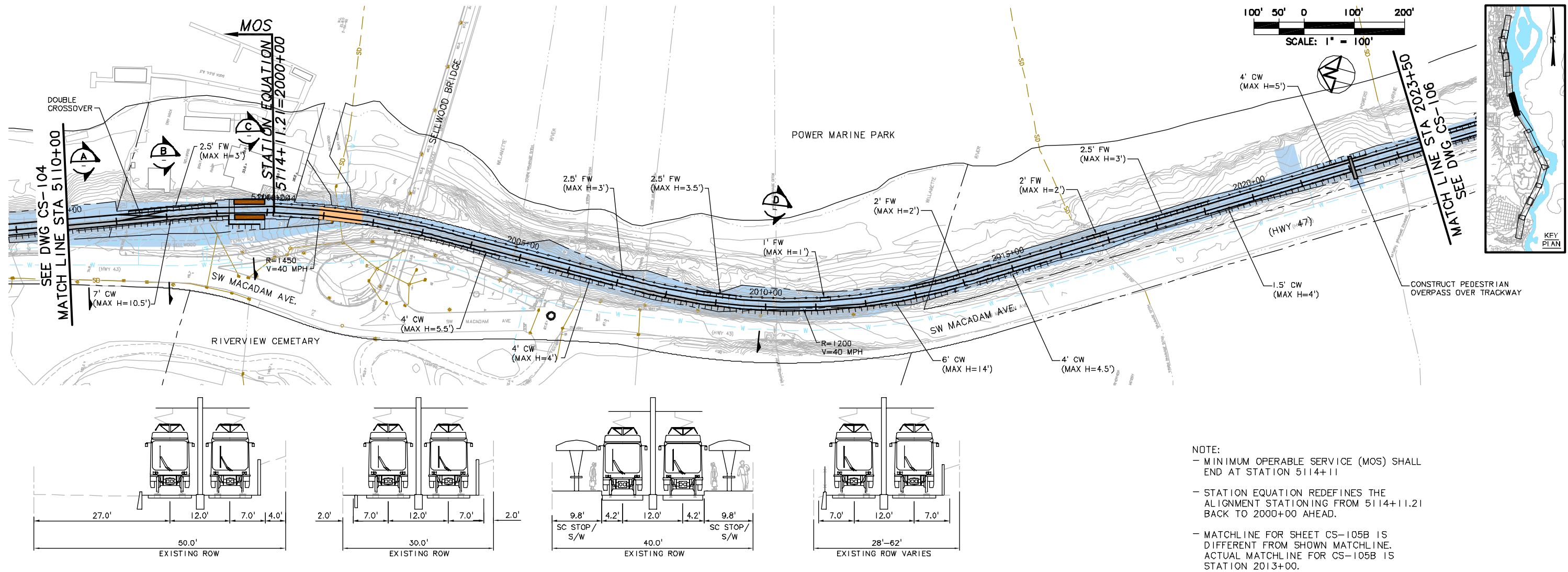
STA 1068+00 - 1076+40 **D**



LEGEND										LAKE OSWEGO TO PORTLAND		DWG NO.
EXISTING TRAFFIC SIGNALS	●	STOP SIGN	●	STRUCTURES	■	EXISTING SEWER LINES	---	SA	CONSTRUCTION LIMITS	PLAN AND PROFILE WSL OPTION		CS-103B
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	—	WALLS	▤	EXISTING STORM LINES	---	SD	FREIGHT TRACKS			
NEW TRAFFIC SIGNALS	●	GATED CROSSINGS	—	ROW TAKE	▥	EXISTING WATER LINES	---	W	PROPERTY TAKE			
										DEIS CONCEPT PLANS		SHEET NO.
										CONTENTS SUBJECT TO CHANGE		
										URS		

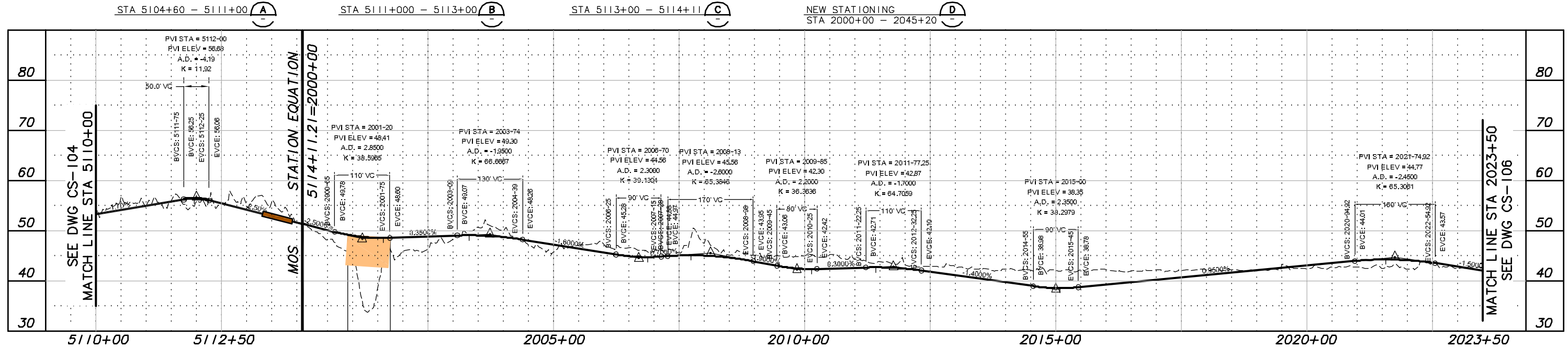






NOTE:

- MINIMUM OPERABLE SERVICE (MOS) SHALL END AT STATION 5114+11
- STATION EQUATION REDEFINES THE ALIGNMENT STATIONING FROM 5114+11.21 BACK TO 2000+00 AHEAD.
- MATCHLINE FOR SHEET CS-105B IS DIFFERENT FROM SHOWN MATCHLINE. ACTUAL MATCHLINE FOR CS-105B IS STATION 2013+00.



<b>LEGEND</b>	STOP SIGN	STRUCTURES	EXISTING SEWER LINES	CONSTRUCTION LIMITS
EXISTING TRAFFIC SIGNALS	FENCE	WALLS	EXISTING STORM LINES	FREIGHT TRACKS
MODIFIED TRAFFIC SIGNALS	GATED CROSSINGS	ROW TAKE	EXISTING WATER LINES	PROPERTY TAKE
NEW TRAFFIC SIGNALS	ROADWAY RECONSTRUCT			FILL AREA

DEIS  
CONCEPT PLANS

CONTENTS  
SUBJECT TO  
CHANGE

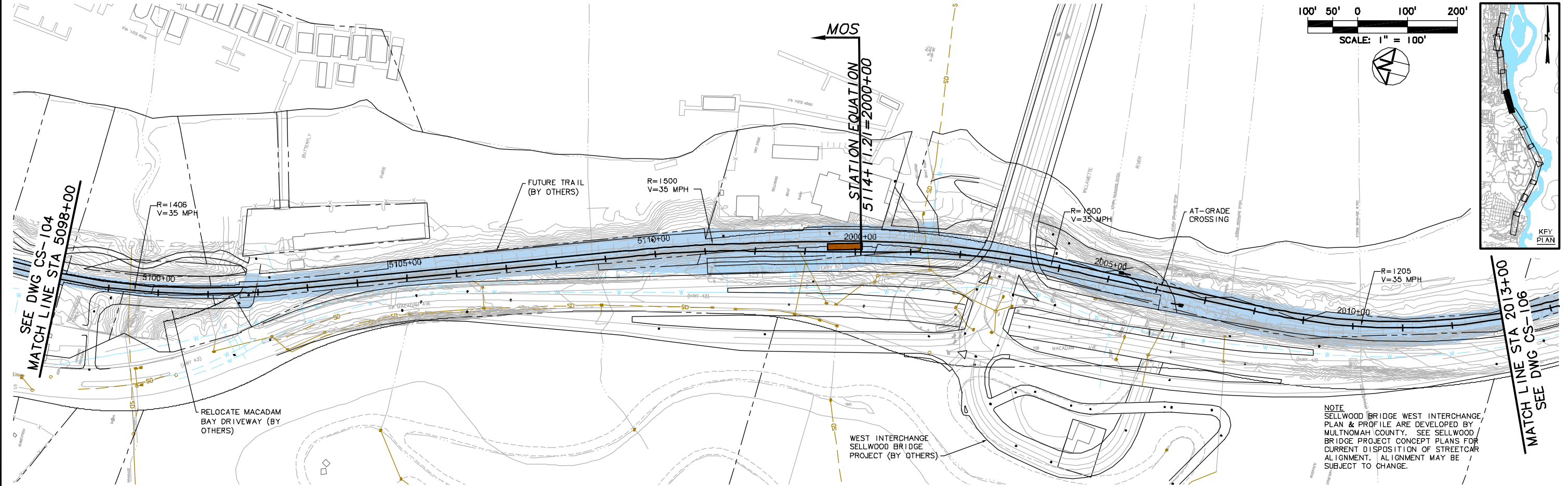
**LAKE OSWEGO TO PORTLAND**

PLAN AND PROFILE  
WSL  
OPTION

DWG NO.  
CS-105

SHEET NO.

C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-105B.dwg, 11/9/2023 5:42:55 PM

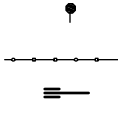


**LEGEND**

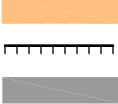
EXISTING TRAFFIC SIGNALS  
MODIFIED TRAFFIC SIGNALS  
NEW TRAFFIC SIGNALS



STOP SIGN  
FENCE  
GATED CROSSINGS  
ROADWAY RECONSTRUCT



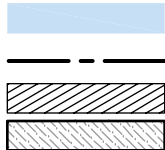
STRUCTURES  
WALLS  
ROW TAKE



EXISTING SEWER LINES  
EXISTING STORM LINES  
EXISTING WATER LINES



CONSTRUCTION LIMITS  
FREIGHT TRACKS  
PROPERTY TAKE  
FILL AREA



DEIS  
CONCEPT PLANS  
CONTENTS  
SUBJECT TO  
CHANGE

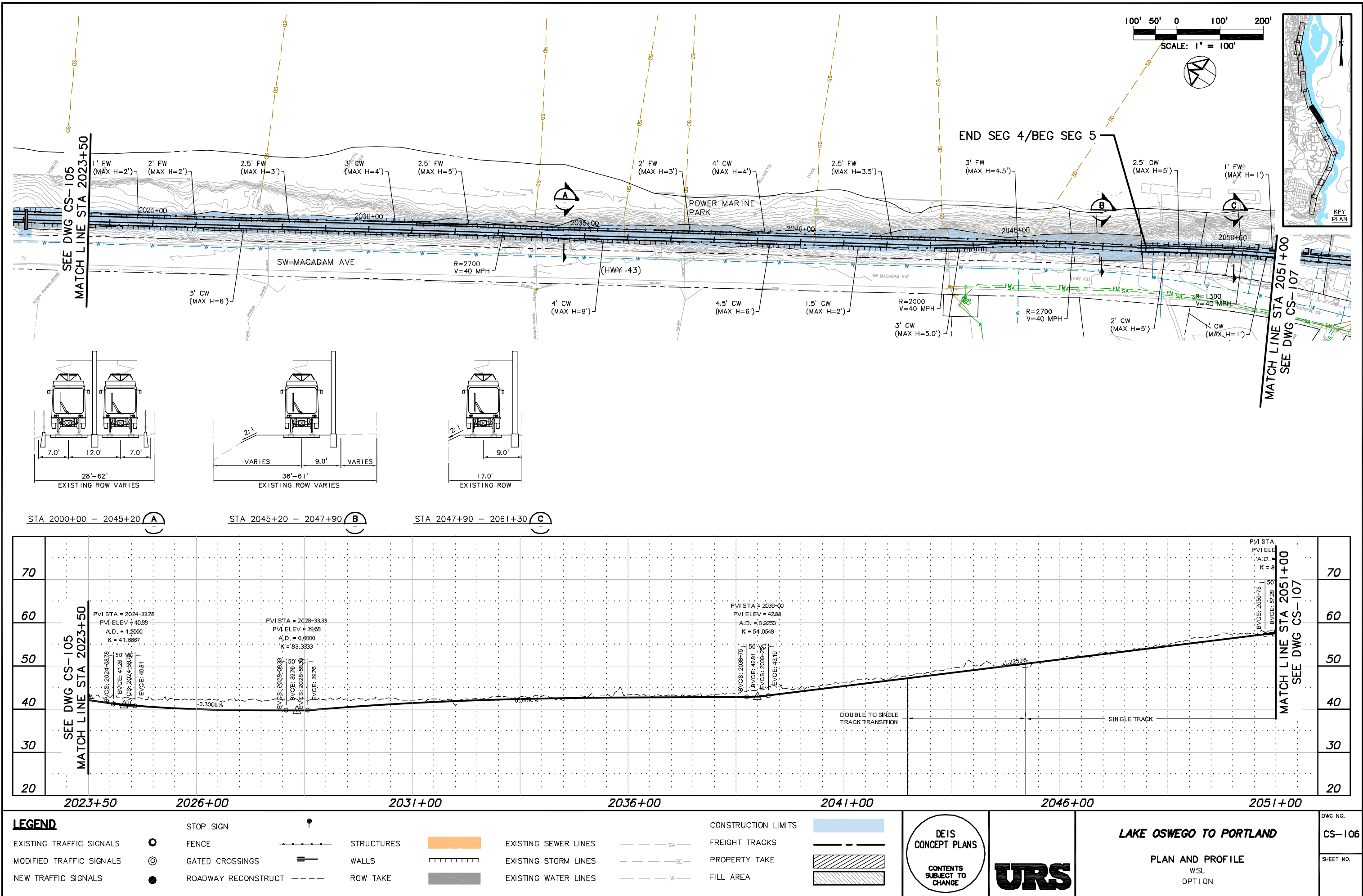


**LAKE OSWEGO TO PORTLAND**

**PLAN**  
NEW INTERCHANGE  
OPTION

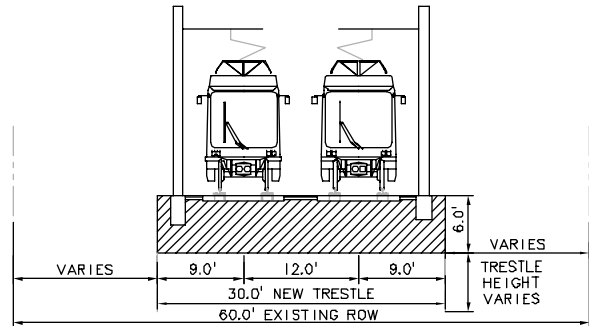
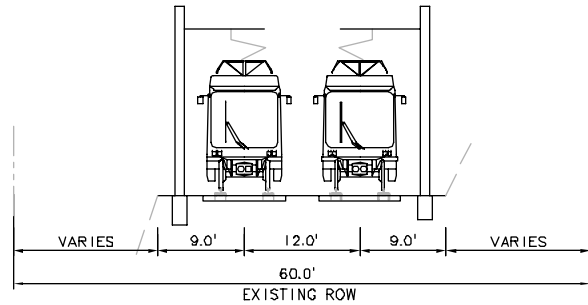
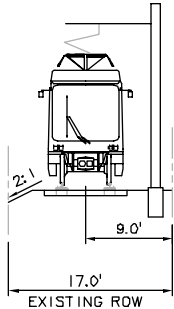
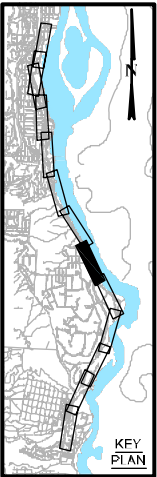
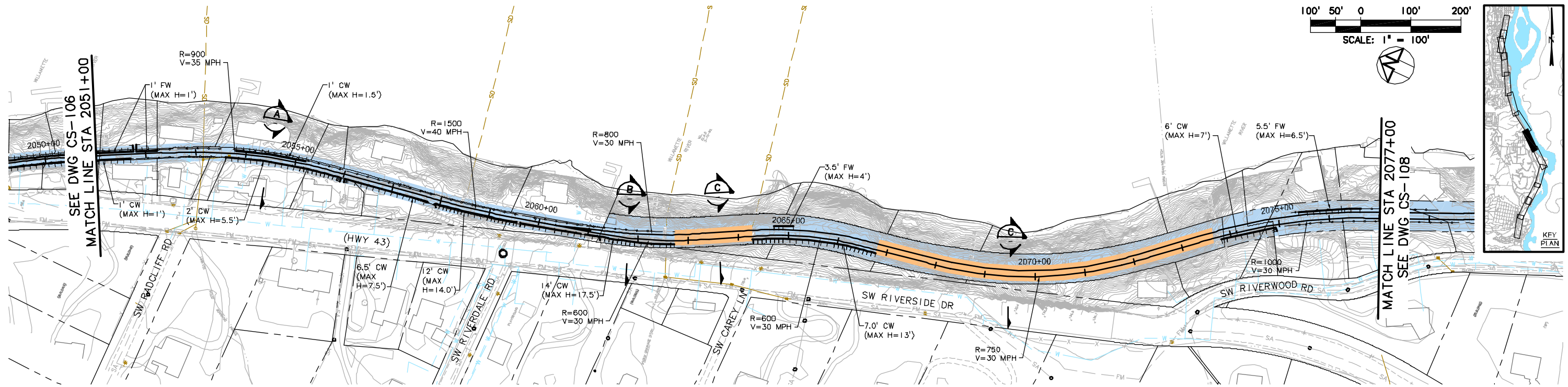
DWG NO.  
**CS-105B**  
SHEET NO.

C:\Users\jg9991\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-106\CS-106.dwg, 11/19/2009 5:41:31 PM





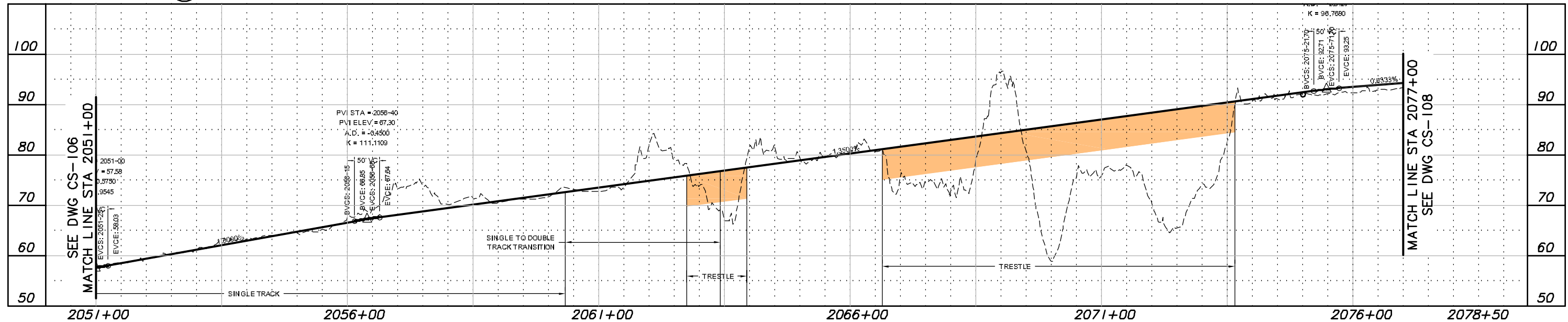
C:\Users\jg9991\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-107\DWG\_11/19/2009 5:42:14 PM



STA 2047+90 - 2061+30 (A)

STA 2061+30 - 202+70 (B)  
AND 2064+30 - 2066+80  
AND 2073+70 - 2081+65

STA 2062+70 - 2064+30 (C)  
AND 2066+80 - 2073+70



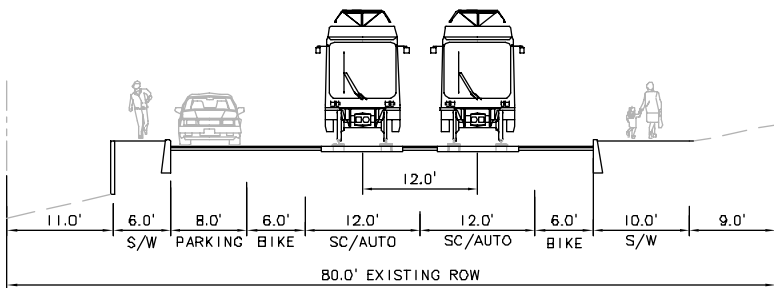
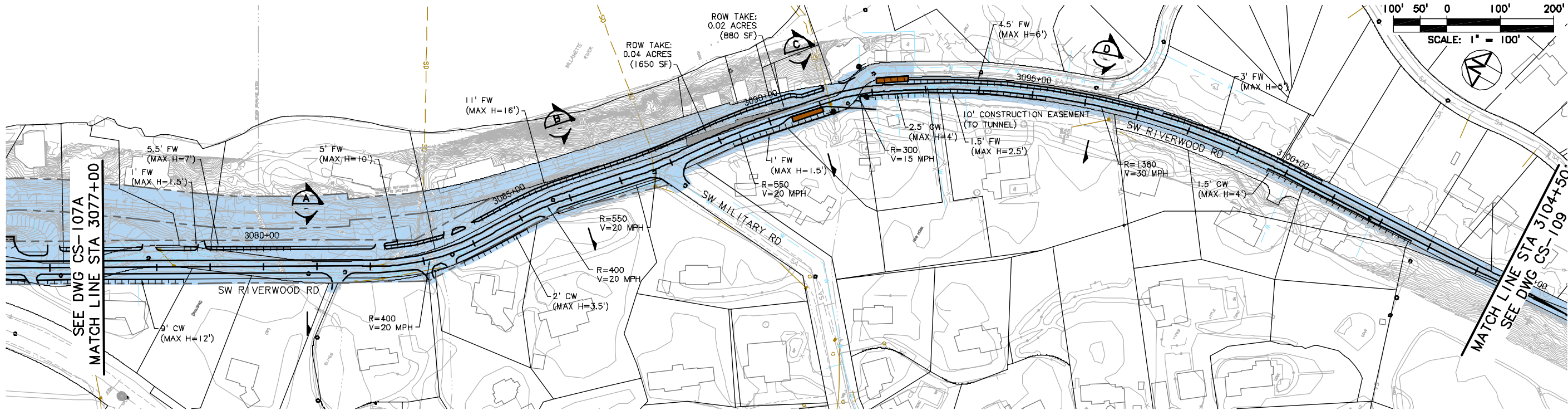
LEGEND										DWG NO.	
EXISTING TRAFFIC SIGNALS	●	STOP SIGN	●	STRUCTURES	— — — —	EXISTING SEWER LINES	— — — — SA — —	CONSTRUCTION LIMITS	— — — —	LAKE OSWEGO TO PORTLAND PLAN AND PROFILE WSL OPTION	
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	— — — —	WALLS	— — — —	EXISTING STORM LINES	— — — — SD — —	FREIGHT TRACKS	— — — —		
NEW TRAFFIC SIGNALS	●	GATED CROSSINGS	— — — —	ROW TAKE	— — — —	EXISTING WATER LINES	— — — — W — —	PROPERTY TAKE	— — — —		
		ROADWAY RECONSTRUCT	— — — —					FILL AREA	— — — —	UR	



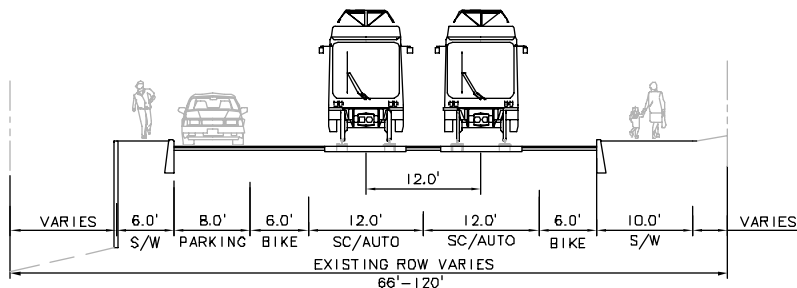




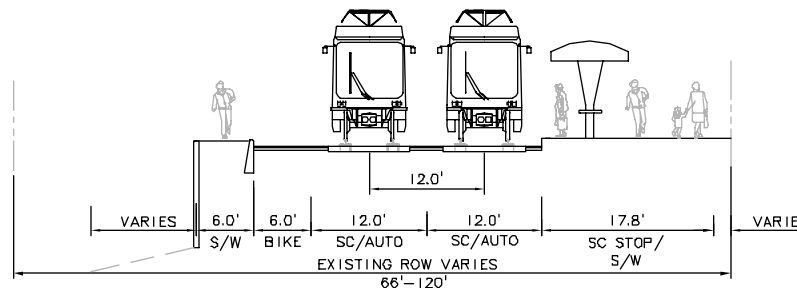




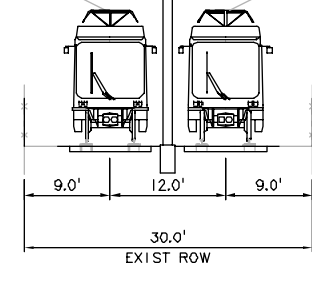
STA 3076+00 - 3084+70 (A)



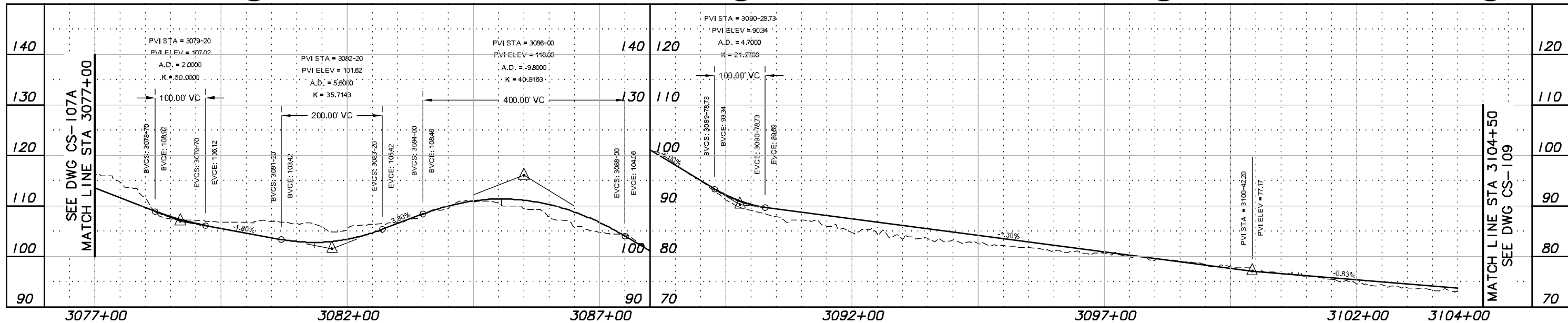
STA 3084+70 - 3090+50 (B)



STA 3090+50 - 3091+50 (C)



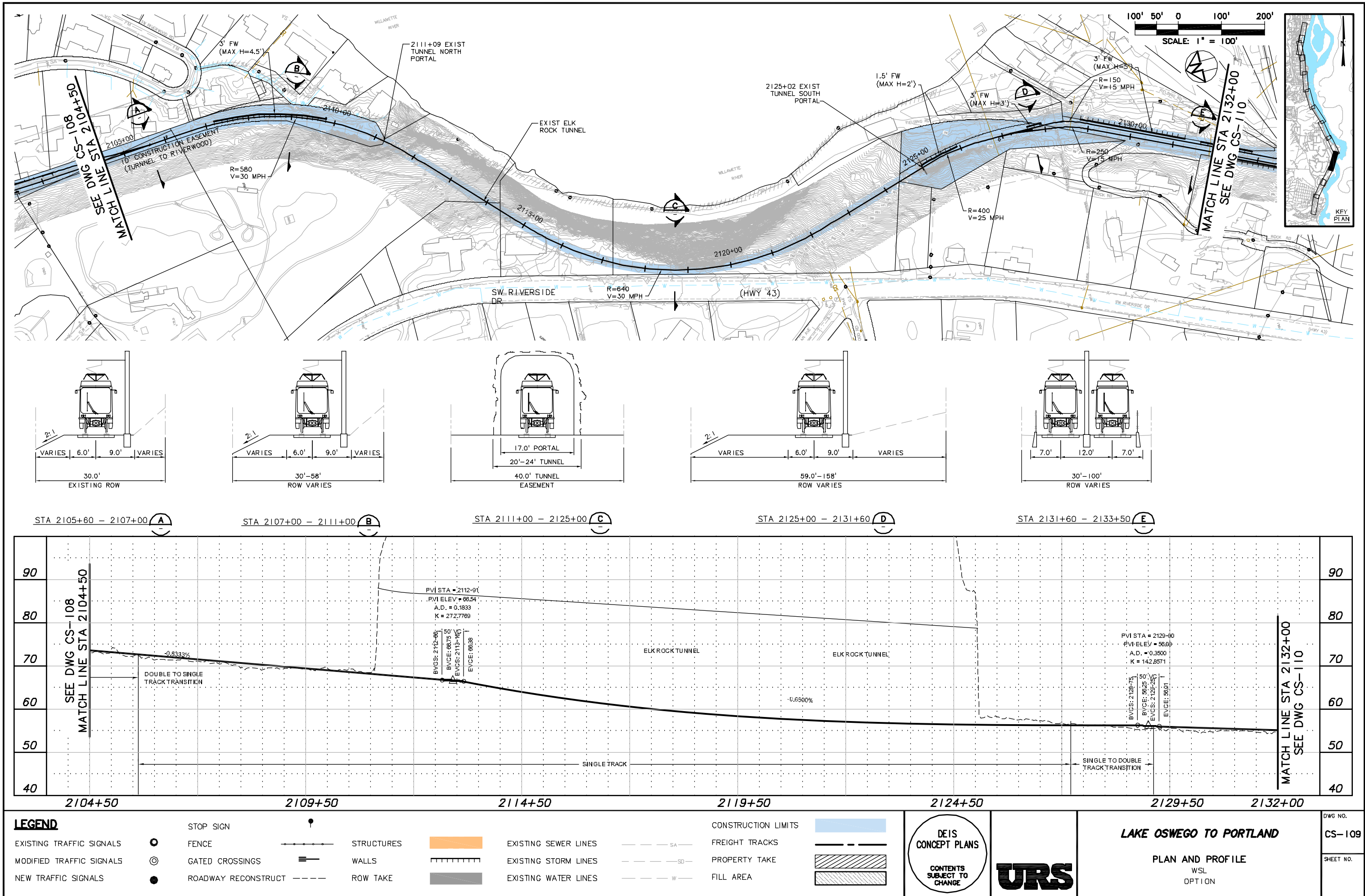
STA 3091+50 - 3104+50 (D)



LEGEND		STOP SIGN		FENCE		STRUCTURES		EXISTING SEWER LINES		EXISTING STORM LINES		EXISTING WATER LINES		CONSTRUCTION LIMITS		FREIGHT TRACKS		PROPERTY TAKE		FILL AREA		DEIS CONCEPT PLANS		LAKE OSWEGO TO PORTLAND		PLAN AND PROFILE		RIVERWOOD IN STREET OPTION		DWG NO.		CS-108A		SHEET NO.	
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	FENCE	—	STRUCTURES	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	LAKE OSWEGO TO PORTLAND	—	PLAN AND PROFILE	—	RIVERWOOD IN STREET OPTION	—	DWG NO.	—	CS-108A	—	SHEET NO.	
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	—	GATED CROSSINGS	—	WALLS	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	LAKE OSWEGO TO PORTLAND	—	PLAN AND PROFILE	—	RIVERWOOD IN STREET OPTION	—	DWG NO.	—	CS-108A	—	SHEET NO.	
NEW TRAFFIC SIGNALS	●	ROADWAY RECONSTRUCT	—	ROADWAY RECONSTRUCT	—	ROW TAKE	—	EXISTING SEWER LINES	—	EXISTING STORM LINES	—	EXISTING WATER LINES	—	CONSTRUCTION LIMITS	—	FREIGHT TRACKS	—	PROPERTY TAKE	—	FILL AREA	—	DEIS CONCEPT PLANS	—	LAKE OSWEGO TO PORTLAND	—	PLAN AND PROFILE	—	RIVERWOOD IN STREET OPTION	—	DWG NO.	—	CS-108A	—	SHEET NO.	

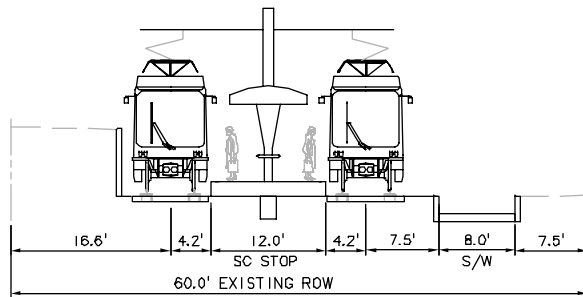
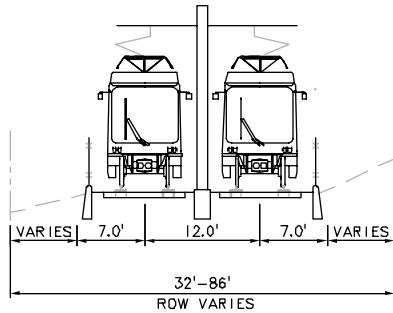
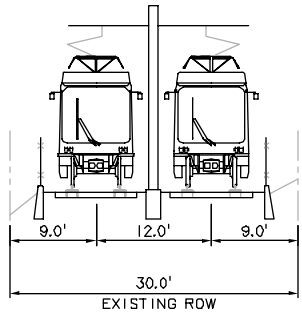
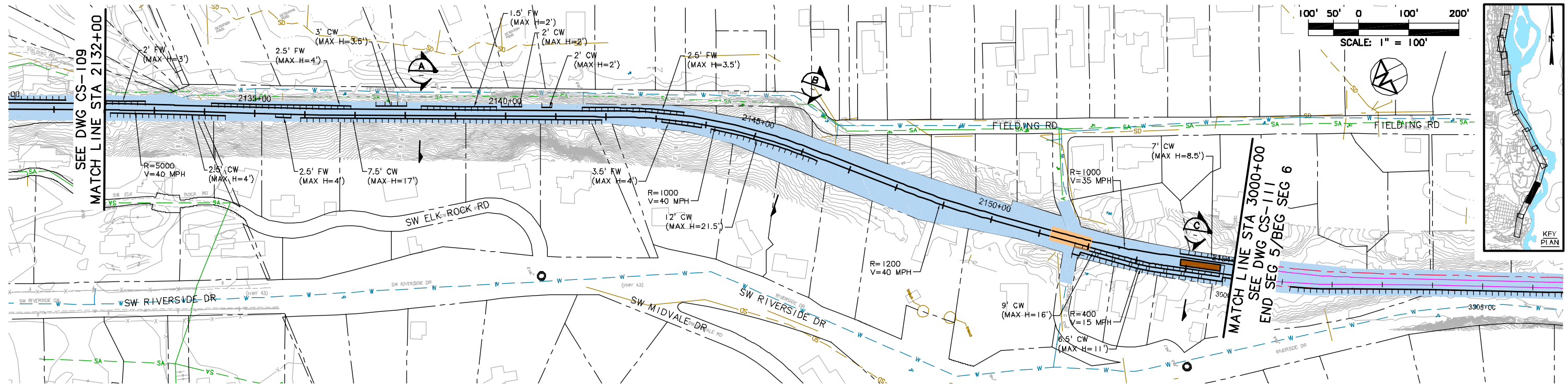


C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\Drawings\CS-109.dwg, 11/19/2023 5:46:46 PM





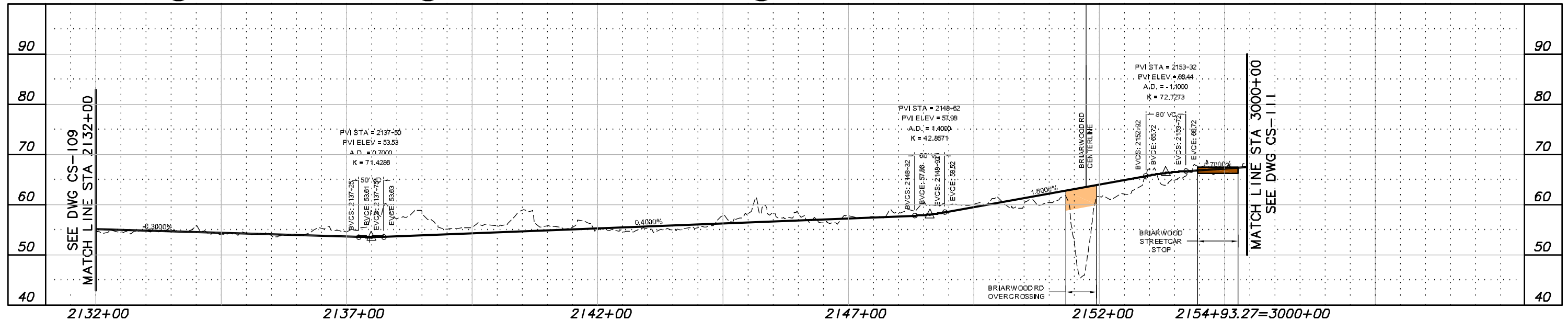
C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-110.dwg, 11/9/2009 5:42:35 PM



STA 2131+60 - 2141+60 **A**

STA 2141+60 - 2153+50 **B**

STA 2153+50 - 2155+00 **C**



LEGEND									
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	STRUCTURES	—	EXISTING SEWER LINES	—	CONSTRUCTION LIMITS	—
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	—	WALLS	—	EXISTING STORM LINES	—	FREIGHT TRACKS	—
NEW TRAFFIC SIGNALS	●	GATED CROSSINGS	—	ROW TAKE	—	EXISTING WATER LINES	—	PROPERTY TAKE	—
		ROADWAY RECONSTRUCT	—					FILL AREA	—

DEIS  
CONCEPT PLANS

CONTENTS  
SUBJECT TO  
CHANGE

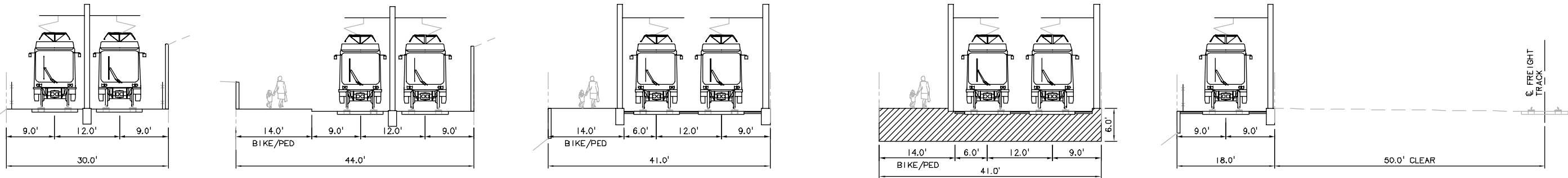
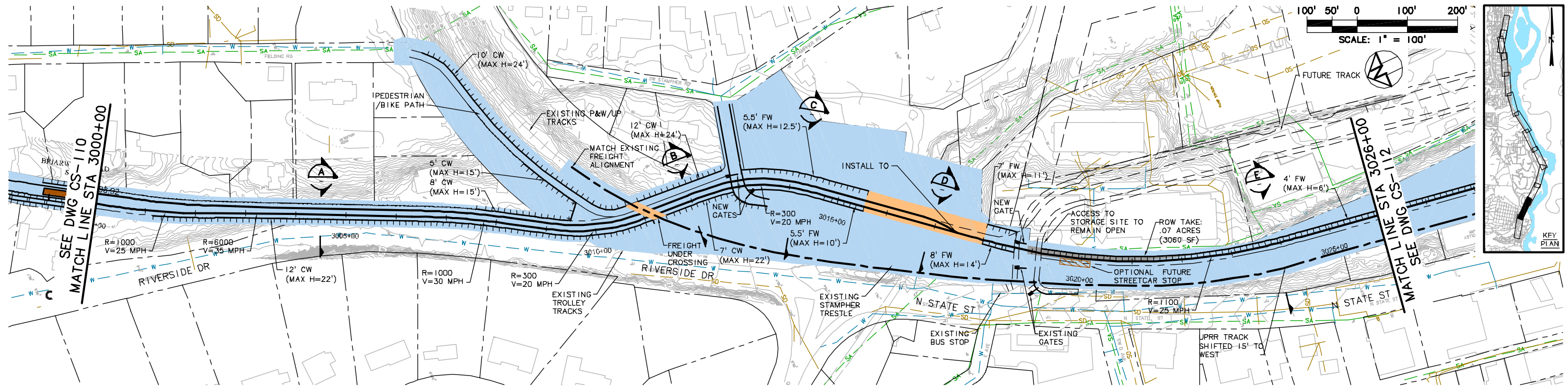
LAKE OSWEGO TO PORTLAND

PLAN AND PROFILE  
WSL  
OPTION

DWG NO.  
CS-110

SHEET NO.

C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\Drawings\CS-111.dwg, 11/19/2023 5:47:23 PM



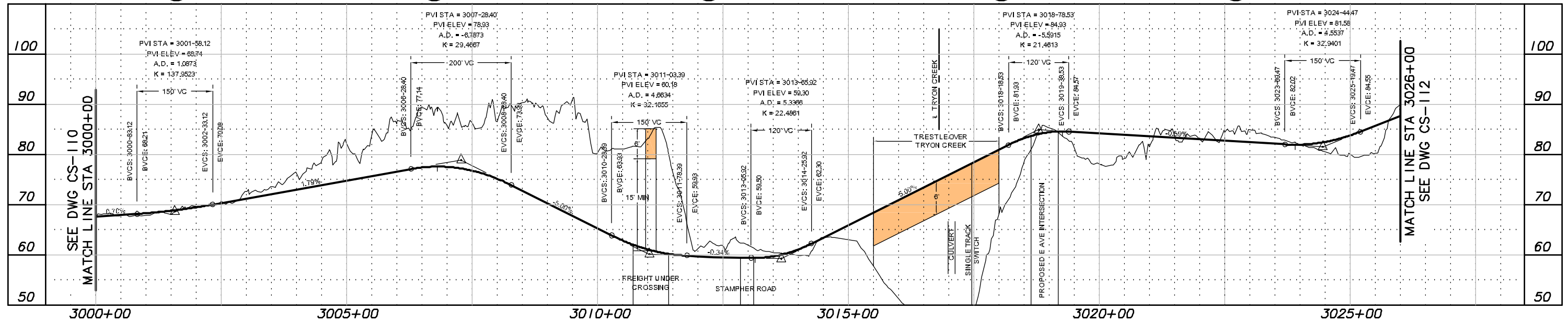
STA 3000+00 - 3010+00 (A)

STA 3010+00 - 3013+00 (B)

STA 3013+00 - 3015+50 (C)

STA 3015+50 - 3018+00 (D)

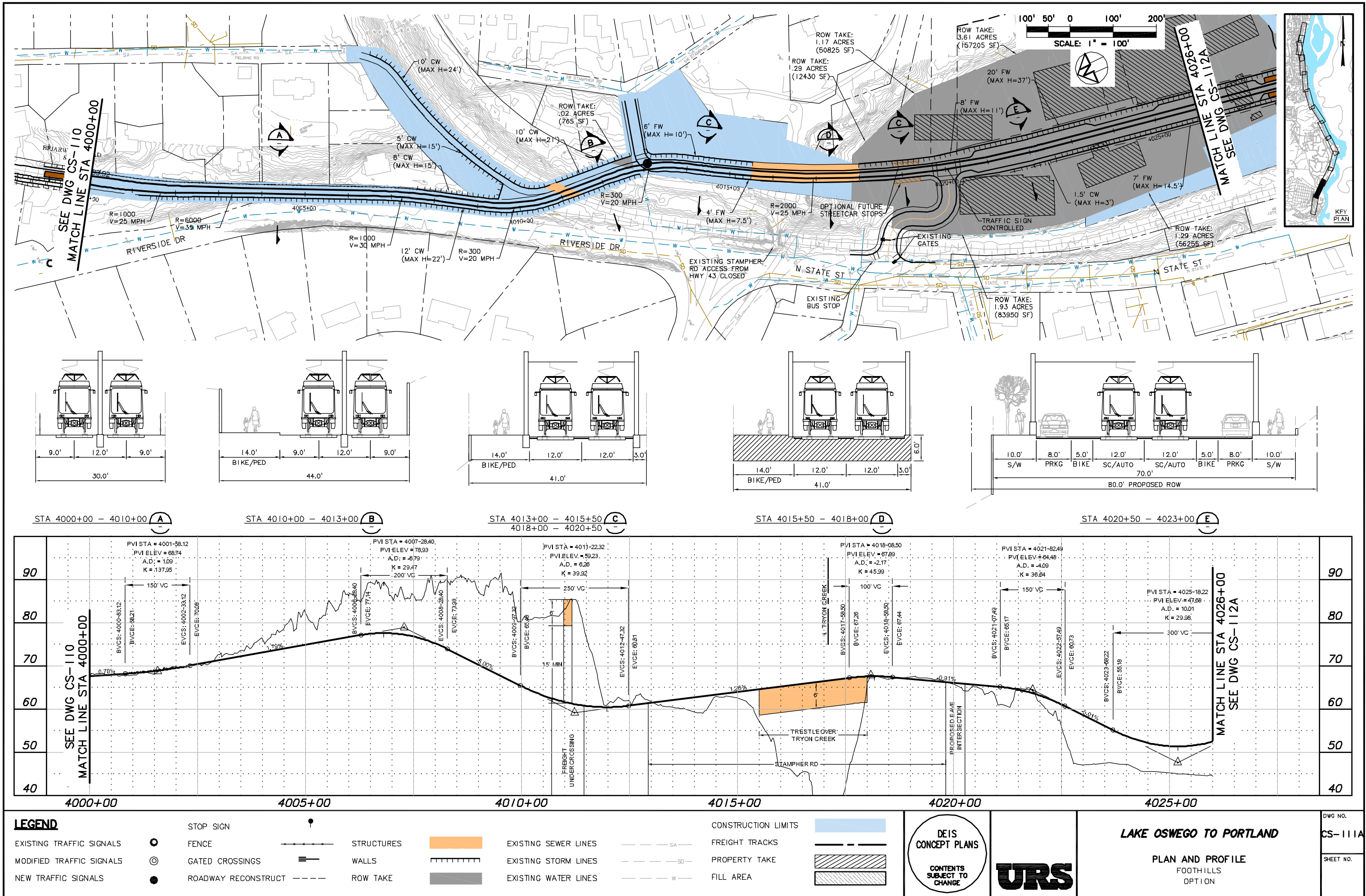
STA 3018+00 - 3026+00 (E)



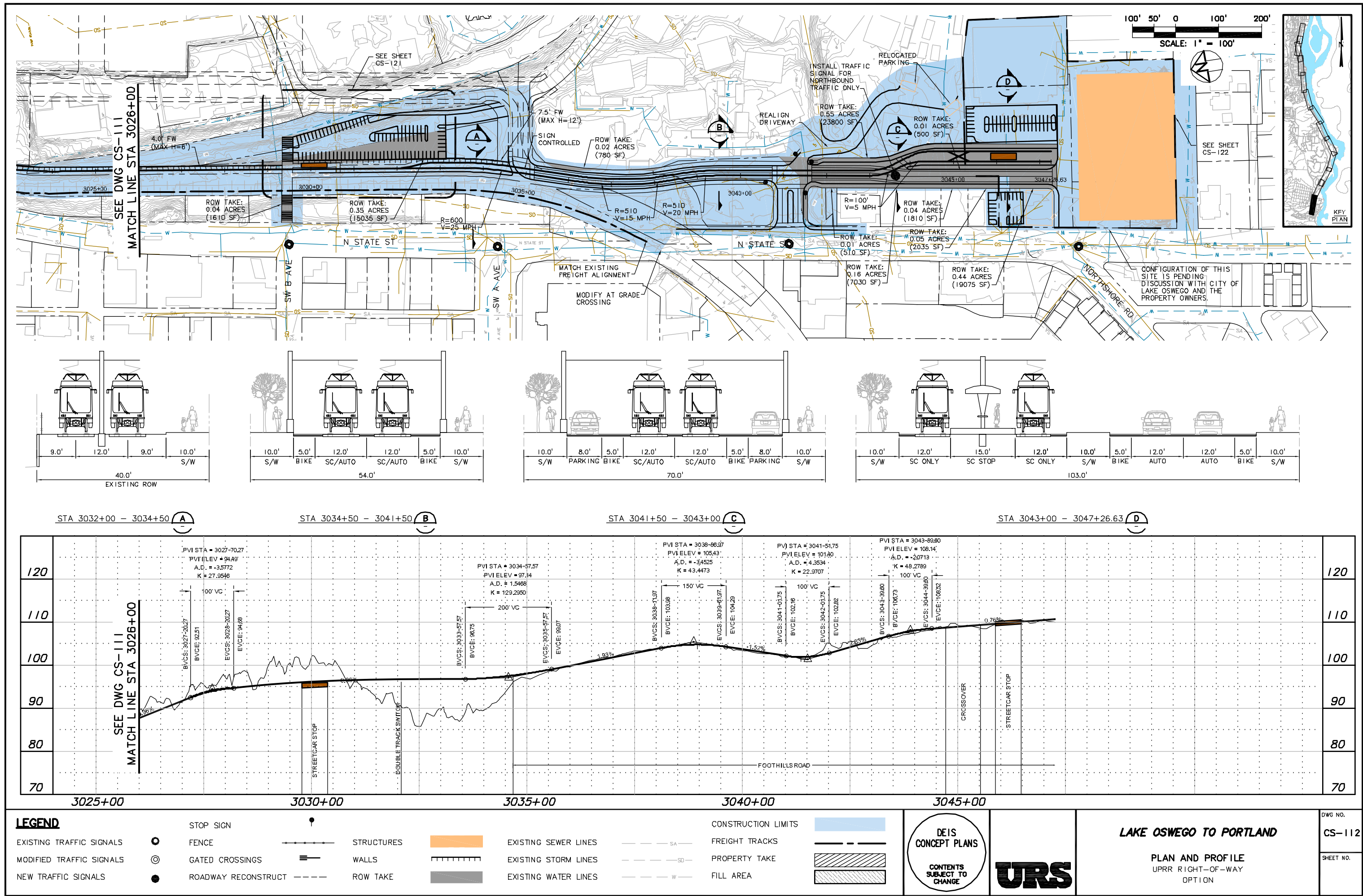
LEGEND		STRUCTURES		EXISTING SEWER LINES		EXISTING STORM LINES		EXISTING WATER LINES		CONSTRUCTION LIMITS		FREIGHT TRACKS		PROPERTY TAKE		FILL AREA		DEIS CONCEPT PLANS		LAKE OSWEGO TO PORTLAND		PLAN AND PROFILE		UPRR RIGHT-OF-WAY OPTION		DWG NO.		SHEET NO.	
EXISTING TRAFFIC SIGNALS	○	STOP SIGN	●	EXISTING SEWER LINES	— — — — — SA —	EXISTING STORM LINES	— — — — — SD —	EXISTING WATER LINES	— — — — — W —	CONSTRUCTION LIMITS	— — — — —	FREIGHT TRACKS	— — — — —	PROPERTY TAKE	— — — — —	FILL AREA	— — — — —	DEIS CONCEPT PLANS	CONTENTS SUBJECT TO CHANGE	LAKE OSWEGO TO PORTLAND	PLAN AND PROFILE	UPRR RIGHT-OF-WAY OPTION							
MODIFIED TRAFFIC SIGNALS	⊙	FENCE	— — — — —	EXISTING SEWER LINES	— — — — — SA —	EXISTING STORM LINES	— — — — — SD —	EXISTING WATER LINES	— — — — — W —	CONSTRUCTION LIMITS	— — — — —	FREIGHT TRACKS	— — — — —	PROPERTY TAKE	— — — — —	FILL AREA	— — — — —	DEIS CONCEPT PLANS	CONTENTS SUBJECT TO CHANGE	LAKE OSWEGO TO PORTLAND	PLAN AND PROFILE	UPRR RIGHT-OF-WAY OPTION							
NEW TRAFFIC SIGNALS	●	ROADWAY RECONSTRUCT	— — — — —	EXISTING SEWER LINES	— — — — — SA —	EXISTING STORM LINES	— — — — — SD —	EXISTING WATER LINES	— — — — — W —	CONSTRUCTION LIMITS	— — — — —	FREIGHT TRACKS	— — — — —	PROPERTY TAKE	— — — — —	FILL AREA	— — — — —	DEIS CONCEPT PLANS	CONTENTS SUBJECT TO CHANGE	LAKE OSWEGO TO PORTLAND	PLAN AND PROFILE	UPRR RIGHT-OF-WAY OPTION							



C:\155695951 Lake Oswego to Portland Transit Project\155695951 Technical\CD\Drawings\CS-111A.dwg, 11/9/2016 5:47:38 PM

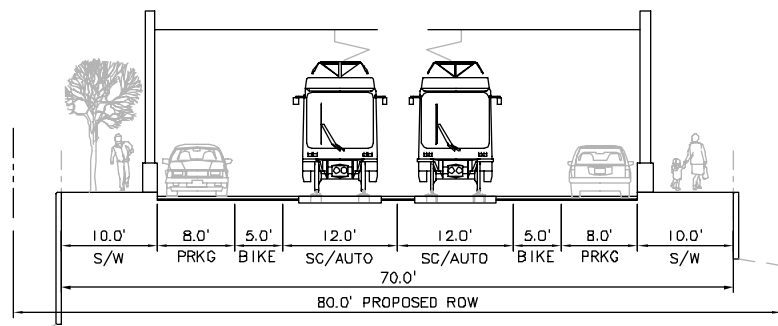
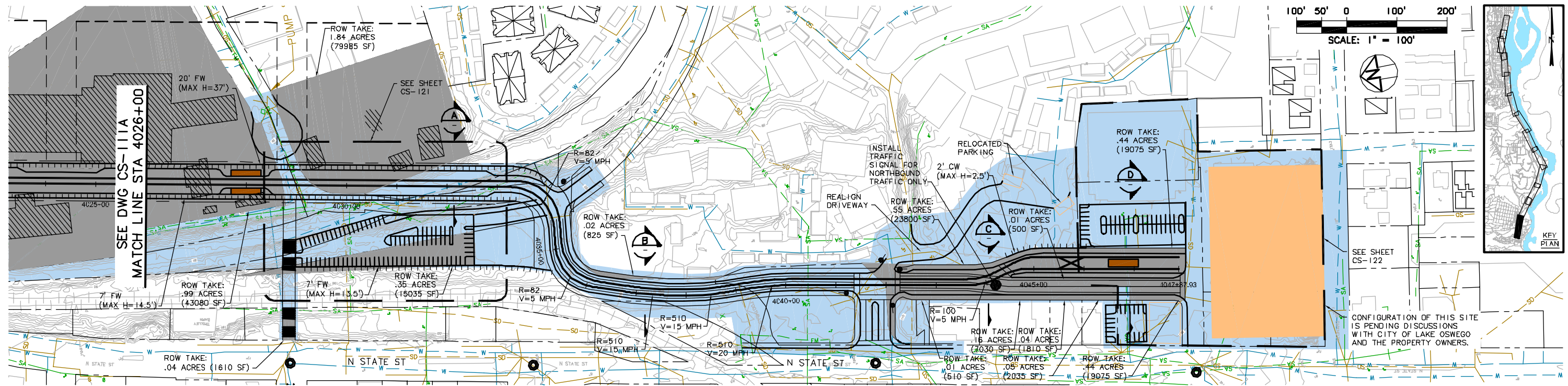


C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CD\DWG\CS-112.dwg, 11/9/2009 5:48:59 PM

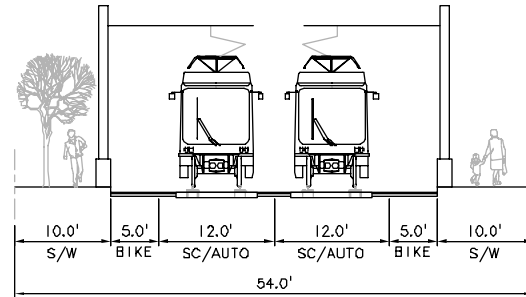




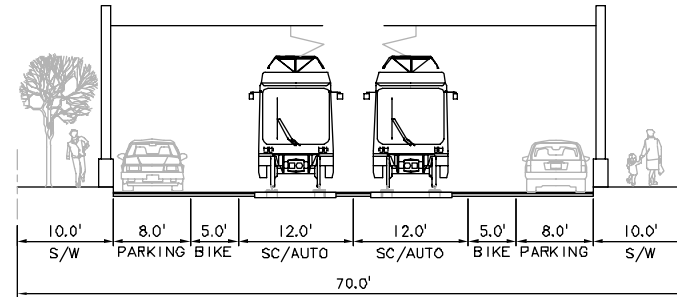
C:\Users\jg9591\OneDrive\Documents\Projects\Lake Oswego to Portland Transit\Technical\CS-112A.dwg, 11/9/2018 5:03:25 PM



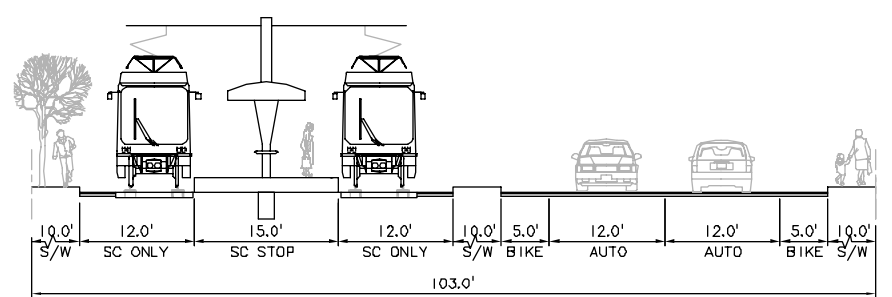
STA 4023+00 - 4033+00 **A**



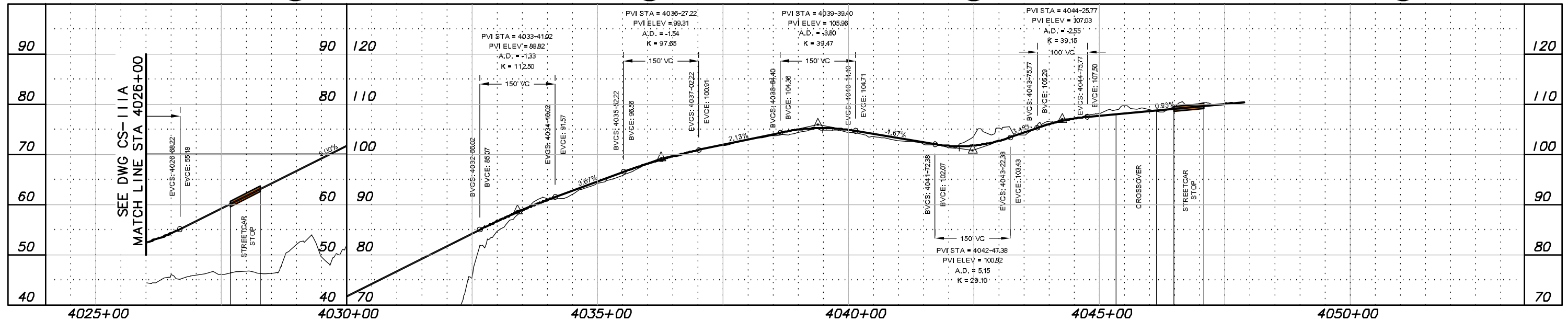
STA 4033+00 - 4042+00 **B**



STA 4042+00 - 4044+00 **C**



STA 4044+00 - 4047+87.93 **D**



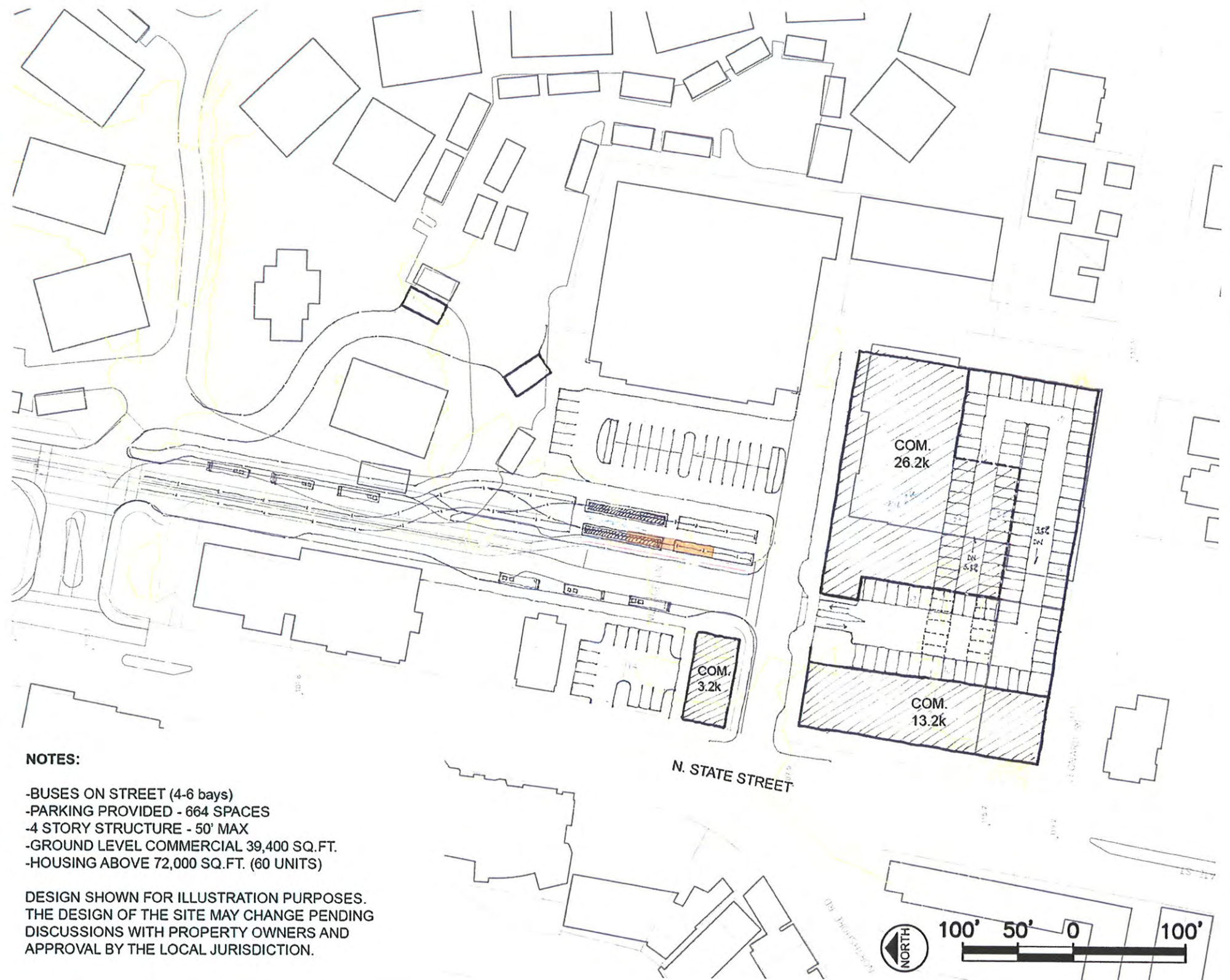
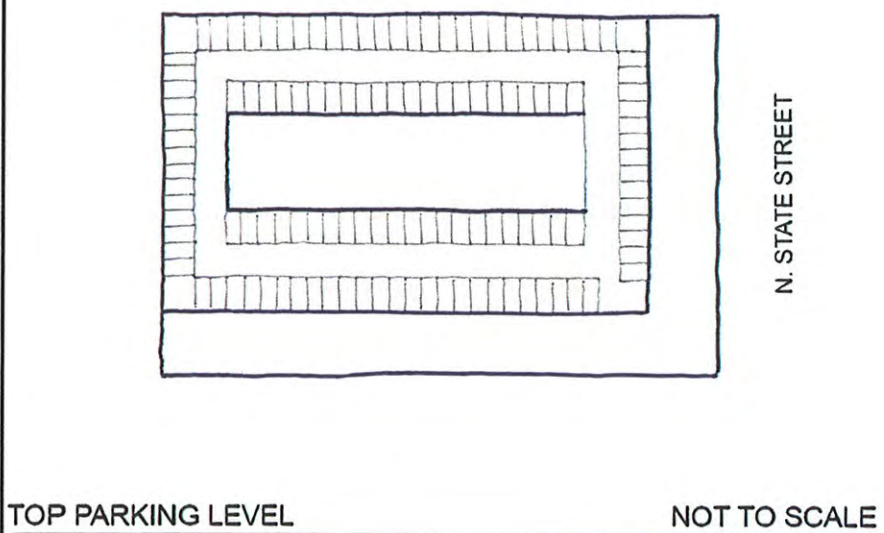
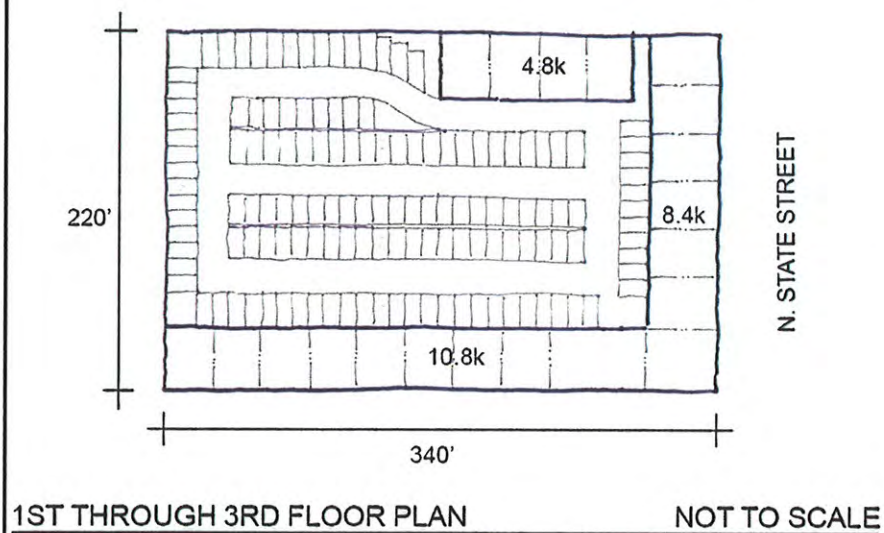
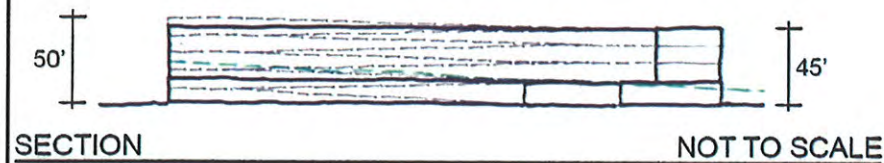
DWG NO.  
CS-112A

SHEET NO.









**NOTES:**

- BUSES ON STREET (4-6 bays)
- PARKING PROVIDED - 664 SPACES
- 4 STORY STRUCTURE - 50' MAX
- GROUND LEVEL COMMERCIAL 39,400 SQ.FT.
- HOUSING ABOVE 72,000 SQ.FT. (60 UNITS)

DESIGN SHOWN FOR ILLUSTRATION PURPOSES.  
THE DESIGN OF THE SITE MAY CHANGE PENDING  
DISCUSSIONS WITH PROPERTY OWNERS AND  
APPROVAL BY THE LOCAL JURISDICTION.

TERMINAL STATION CONCEPT



LAKE OSWEGO TO PORTLAND  
PLAN  
LAKE OSWEGO TERMINUS  
OPTIONS

DWG NO.  
CS-122  
SHEET NO.