CONTRACT PLANS

NDC 035.1 CABS LINER AND STORM REVISIONS AT LAKE WASHINGTON BLVD

I-405 MP 0.00 TO MP 14.60

I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

VOLUME 5
NDC 035.1 - RFC

KING COUNTY

Wood Environment & Infrastructure, Inc.
01/14/2022
Date
DQAM Initials
RELEASED FOR CONSTRUCTION

1/14/2022

Washington State
Department of Transportation

VOLUME 5

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.		SHEET TITLE	SHEET DESCRIPTION
B				DR	A	STRUCTURAL NOTES SHEET 1	DR28 TO DR30
B				DR	A1	STRUCTURE NOTES	
B				DR	A2	STRUCTURE NOTES	
B				DR	A3	STRUCTURE NOTES	
B				DR	A4	STRUCTURE NOTES	
B				DR	A5	STRUCTURE NOTES	
B				DR	A6	STRUCTURE NOTES	
B				DR	A7	STRUCTURE NOTES	
B				DR	A8	STRUCTURE NOTES	
B				DR	A9	STRUCTURE NOTES	
B				DR	A10	STRUCTURE NOTES	
B				DR	A11	STRUCTURE NOTES	
B				DR	A12	STRUCTURE NOTES	
1		11/12/21	1214	DR	B	STRUCTURE NOTES - DRAINAGE	DR31
1		11/12/21	1214	DR	B1	STRUCTURE NOTES - DRAINAGE	DR31 TO DR33
1		11/12/21	1214	DR	C	STRUCTURE NOTES - DRAINAGE	DR33
1		11/12/21	1214	DR	C1	STRUCTURE NOTES - DRAINAGE	DR33 TO DR34
4		11/12/21	1889	DR	D	STRUCTURE NOTES - DRAINAGE	DR34 TO DR35
2		12/2/20	716	DR	E	STRUCTURE NOTES - DRAINAGE	
4	X	1/14/2022	2041	DR	F	STRUCTURE NOTES - DRAINAGE	
1		11/12/21	1214	DR	G	STRUCTURE NOTES - DRAINAGE	DR35
0		11/12/21	1214	DR	H	STRUCTURE NOTES - DRAINAGE	DSP31 TO DSP33
0		11/12/21	1214	DR	I	STRUCTURE NOTES - DRAINAGE	DSP33 TO DSP34
0		11/12/21	1214	DR	J	STRUCTURE NOTES - DRAINAGE	DSP34 TO DSPPR
1		11/12/21	1214	DR	K	STRUCTURE NOTES - DRAINAGE	DRPR
B				DR	L	STRUCTURE NOTES - DRAINAGE	
B				DR	L1	STRUCTURE NOTES - DRAINAGE	
B				DR	M	STRUCTURE NOTES - DRAINAGE	
B				DR	M1	STRUCTURE NOTES - DRAINAGE	
B				DR	N	STRUCTURE NOTES - DRAINAGE	
B				DR	N1	STRUCTURE NOTES - DRAINAGE	
B				DR	O	STRUCTURE NOTES - DRAINAGE	
B				DR	O1	STRUCTURE NOTES - DRAINAGE	
B				DR	P	STRUCTURE NOTES - DRAINAGE	
B				DR	Q	STRUCTURE NOTES - DRAINAGE	
B				DR	R	STRUCTURE NOTES - DRAINAGE	
B				DR	S	STRUCTURE NOTES - DRAINAGE	
0		08/13/21	1037	DR	T	STRUCTURE NOTES - DRAINAGE	DR-36 TO DR-37
0		08/13/21	1037	DR	T1	STRUCTURE NOTES - DRAINAGE	DR-37
0		08/13/21	1037	DR	U	STRUCTURE NOTES - DRAINAGE	DR-37 TO DR-39
0		08/13/21	1037	DR	U1	STRUCTURE NOTES - DRAINAGE	DR-39 TO DR-41
0		08/13/21	1037	DR	V	STRUCTURE NOTES - DRAINAGE	DR-41 TO DR-67
0		11/22/21	1889	DR	W	STRUCTURE NOTES - DRAINAGE	DR-67
0		11/22/21	1889	DR	X	STRUCTURE NOTES - DRAINAGE SITE	DSP-36 TO DSP-37
0		11/22/21	1889	DR	Y	STRUCTURE NOTES - DRAINAGE SITE	DSP-37 TO DSP-41
0		11/22/21	1889	DR	Z	STRUCTURE NOTES - DRAINAGE SITE	DSP-41
B		11/22/21	1889	DR	Z1	STRUCTURE NOTES - DRAINAGE	DR-43 & DSP-43
B		08/18/21		DR	Z2	STRUCTURE NOTES - DRAINAGE	DSP-43, DR-44, DSP-44 & DR-45
B		08/18/21		DR	Z3	STRUCTURE NOTES - DRAINAGE	DR-45, DSP-45, DR-46, DSP-46 & DR-47
B		08/18/21		DR	Z4	STRUCTURE NOTES - DRAINAGE	DR-47, DSP-47, DR-48 & DSP-48
B		08/18/21		DR	Z5	STRUCTURE NOTES - DRAINAGE	DSP-48, DR-52, DSP-52, DR-68 & DSP-68
B				DSP	1	DRAINAGE SITE PREPARATION	
B				DSP	2	DRAINAGE SITE PREPARATION	
B				DSP	12	DRAINAGE SITE PREPARATION	
B				DSP	13	DRAINAGE SITE PREPARATION	
B				DSP	14	DRAINAGE SITE PREPARATION	
B				DSP	15	DRAINAGE SITE PREPARATION	

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.		SHEET TITLE	SHEET DESCRIPTION
B				DSP	16	DRAINAGE SITE PREPARATION	
B				DSP	17	DRAINAGE SITE PREPARATION	
B				DSP	18	DRAINAGE SITE PREPARATION	
B				DSP	19	DRAINAGE SITE PREPARATION	
B		11/22/21	1889	DSP	20	DRAINAGE SITE PREPARATION	
B		11/22/21	1889	DSP	21	DRAINAGE SITE PREPARATION	
B		11/22/21	1889	DSP	22	DRAINAGE SITE PREPARATION	
B		11/22/21	1889	DSP	23	DRAINAGE SITE PREPARATION PLAN	STA. 5625+00 TO STA. 5640+00
B		11/22/21	1889	DSP	24	DRAINAGE SITE PREPARATION PLAN	STA. 5640+00 TO STA. 5655+00
B		11/22/21	1889	DSP	25	DRAINAGE SITE PREPARATION PLAN	STA. 5655+00 TO STA. 5670+00
B				DSP	26	DRAINAGE SITE PREPARATION PLAN	STA. 5670+00 TO STA. 5685+00
B				DSP	27	DRAINAGE SITE PREPARATION PLAN	STA. 5685+00 TO STA. 5700+00
B				DSP	28	DRAINAGE SITE PREPARATION PLAN	STA. 5700+00 TO STA. 5715+00
B		11/22/21	1889	DSP	29	DRAINAGE SITE PREPARATION PLAN	STA. 5715+00 TO STA. 5730+00
B				DSP	30	DRAINAGE SITE PREPARATION PLAN	STA. 5730+00 TO STA. 5745+00
0		11/12/21	1214	DSP	31	DRAINAGE SITE PREPARATION PLAN	STA. 5745+00 TO STA. 5760+00
0		11/12/21	1214	DSP	32	DRAINAGE SITE PREPARATION PLAN	STA. 5760+00 TO STA. 5775+00
0		11/12/21	1214	DSP	33	DRAINAGE SITE PREPARATION PLAN	STA. 5775+00 TO STA. 5790+00
0		11/22/21	1889	DSP	34	DRAINAGE SITE PREPARATION PLAN	STA. 5790+00 TO STA. 5805+00
0		11/12/21	1214	DSP	35	DRAINAGE SITE PREPARATION PLAN	STA. 5805+00 TO STA. 5820+00
0		11/12/21	1214	DSP	PR	DRAINAGE SITE PREPARATION PLAN	NEWPORT HILLS PARK & RIDE
0		08/12/21	1037	DSP	36	DRAINAGE SITE PREPARATION PLAN	STA. 5820+00 TO STA. 5835+00
0		08/12/21	1037	DSP	37	DRAINAGE SITE PREPARATION PLAN	STA. 5835+00 TO STA. 5850+00
0		08/12/21	1037	DSP	38	DRAINAGE SITE PREPARATION PLAN	STA. 5850+00 TO STA. 5865+00
0		08/12/21	1037	DSP	39	DRAINAGE SITE PREPARATION PLAN	STA. 5865+00 TO STA. 5880+00
0		08/12/21	1037	DSP	40	DRAINAGE SITE PREPARATION PLAN	STA. 5880+00 TO STA. 5895+00
0		08/12/21	1037	DSP	41	DRAINAGE SITE PREPARATION PLAN	STA. 5895+00 TO STA. 5910+00
0		08/12/21	1037	DSP	42	DRAINAGE SITE PREPARATION PLAN	STA. 5910+00 TO STA. 5925+00
B		08/18/21		DSP	43	DRAINAGE SITE PREPARATION PLAN	STA. 5925+00 TO STA. 5940+00
B		11/22/21		DSP	44	DRAINAGE SITE PREPARATION PLAN	STA. 5940+00 TO STA. 5955+00
B		11/22/21		DSP	45	DRAINAGE SITE PREPARATION PLAN	STA. 5955+00 TO STA. 5965+00
B		11/22/21		DSP	46	DRAINAGE SITE PREPARATION PLAN	STA. 5965+00 TO STA. 5980+00
B		08/18/21		DSP	47	DRAINAGE SITE PREPARATION PLAN	STA. 5980+00 TO STA. 5995+00
B		08/18/21		DSP	48	DRAINAGE SITE PREPARATION PLAN	STA. 5995+00 TO STA. 6010+00
B				DSP	49	DRAINAGE SITE PREPARATION PLAN	STA. 6010+00 TO STA. 6025+00
B				DSP	50	DRAINAGE SITE PREPARATION PLAN	STA. 6025+00 TO STA. 6040+00
B				DSP	51	DRAINAGE SITE PREPARATION PLAN	STA. 6040+00 TO NBSTA.8050+00
B		08/18/21		DSP	52	DRAINAGE SITE PREPARATION PLAN	STA. 8050+00 TO STA. 8065+00
B				DSP	53	DRAINAGE SITE PREPARATION PLAN	STA. 8065+00 TO STA. 8071+00
B				DSP	59	DRAINAGE SITE PREPARATION PLAN	STA. 7+00 TO STA. 16+00
B				DSP	60	DRAINAGE SITE PREPARATION PLAN	STA. 16+00 TO STA. 31+00
0	X	1/14/2022	2041	DSP	61	DRAINAGE SITE PREPARATION PLAN	LAKE WASHINGTON BLVD
0		08/12/21	1037	DSP	64	DRAINAGE SITE PREPARATION PLAN	I-405 TO I-90 RAMPS
0		08/12/21	1037	DSP	65	DRAINAGE SITE PREPARATION PLAN	I-405 TO I-90 RAMPS
0		08/12/21	1037	DSP	67	DRAINAGE SITE PREPARATION PLAN	DISPERSION AREA
A		08/18/21		DSP	68	DRAINAGE SITE PREPARATION PLAN	MAIN ST
				DSP	69	DRAINAGE SITE PREPARATION PLAN	NE 6TH ST.
A				UD	1	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
A				UD	2	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
A				UD	3	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
A				UD	4	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
0	X	1/14/2022	2041	UD	5	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
1		11/12/21	1214	UD	6	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
1		11/12/21	1214	UD	7	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
0		08/09/21		UD	8	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
0		08/09/21		UD	9	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES
0		08/09/21		UD	9A	UNDERDRAIN STRUCTURE NOTES	UNDERDRAIN STRUCTURE NOTES

NO.	ISSUE DATE	ISSUE RECORD - DESCRIPTION	DESIGNED BY	ENTERED BY	CHECKED BY	DESIGN MANAGER:

REGION NO. 10 | STATE WASH

XL5467 CONTRACT NO.

C9242

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

FLATIRON LANE

wood.

I-405
RENTON TO BELLEVUE
EXPRESS TOLL LANES

INDEX OF SHEETS - VOL 5

PLAN REF NO **IN05-1**

Wood Environment & Infrastructure, Inc.
01/14/2022 Date
DQAM Initials
RELEASED FOR CONSTRUCTION

VOLUME 5

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.		SHEET TITLE	SHEET DESCRIPTION
A		08/18/21		UD	10	UNDERDRAIN DETAILS	DR43 - DR45
A		08/18/21		UD	11	UNDERDRAIN DETAILS	DR45 TO DR48
A		08/18/21		UD	12	UNDERDRAIN DETAILS	DR48, DR52 & DR68
B				DR	1	DRAINAGE PLAN	STA. 5305+00 TO STA. 5315+00
B				DR	2	DRAINAGE PLAN	STA. 5315+00 TO STA. 5325+00
B				DR	12	DRAINAGE PLAN	STA. 5460+00 TO STA. 5475+00
B				DR	13	DRAINAGE PLAN	STA. 5475+00 TO STA. 5490+00
B				DR	14	DRAINAGE PLAN	STA. 5490+00 TO STA. 5505+00
B				DR	15	DRAINAGE PLAN	STA. 5505+00 TO STA. 5520+00
B				DR	16	DRAINAGE PLAN	STA. 5520+00 TO STA. 5535+00
B				DR	17	DRAINAGE PLAN	STA. 5535+00 TO STA. 5550+00
B				DR	18	DRAINAGE PLAN	STA. 5550+00 TO STA. 5565+00
B				DR	19	DRAINAGE PLAN	STA. 5565+00 TO STA. 5580+00
B				DR	20	DRAINAGE PLAN	STA. 5580+00 TO STA. 5595+00
B				DR	21	DRAINAGE PLAN	STA. 5595+00 TO STA. 5610+00
B				DR	22	DRAINAGE PLAN	STA. 5610+00 TO STA. 5625+00
B				DR	23	DRAINAGE PLAN	STA. 5625+00 TO STA. 5640+00
B				DR	24	DRAINAGE PLAN	STA. 5640+00 TO STA. 5655+00
0		07/03/20	265	DR	25	DRAINAGE PLAN	STA. 5655+00 TO STA. 5670+00
2		12/2/20	716	DR	26	DRAINAGE PLAN	STA. 5670+00 TO STA. 5685+00
0		07/03/20	265	DR	27	DRAINAGE PLAN	STA. 5685+00 TO STA. 5700+00
B				DR	28	DRAINAGE PLAN	STA. 5700+00 TO STA. 5715+00
B				DR	29	DRAINAGE PLAN	STA. 5715+00 TO STA. 5730+00
B				DR	30	DRAINAGE PLAN	STA. 5730+00 TO STA. 5745+00
1		11/12/21	1214	DR	31	DRAINAGE PLAN	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DR	32	DRAINAGE PLAN	STA. 5760+00 TO STA. 5775+00
2		11/22/21	1889	DR	33	DRAINAGE PLAN	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DR	34	DRAINAGE PLAN	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DR	35	DRAINAGE PLAN	STA. 5805+00 TO STA. 5820+00
0		12/17/21	1950	DR	36	DRAINAGE PLAN	STA. 5820+00 TO STA. 5835+00
0		12/17/21	1950	DR	37	DRAINAGE PLAN	STA. 5835+00 TO STA. 5850+00
0		12/17/21	1950	DR	38	DRAINAGE PLAN	STA. 5850+00 TO STA. 5865+00
0		12/17/21	1950	DR	39	DRAINAGE PLAN	STA. 5865+00 TO STA. 5880+00
0		12/17/21	1950	DR	40	DRAINAGE PLAN	STA. 5880+00 TO STA. 5895+00
0		12/17/21	1950	DR	41	DRAINAGE PLAN	STA. 5895+00 TO STA. 5910+00
0		12/17/21	1950	DR	42	DRAINAGE PLAN	STA. 5910+00 TO STA. 5925+00
B		08/18/21		DR	43	DRAINAGE PLAN	STA. 5925+00 TO STA. 5940+00
B		08/18/21		DR	44	DRAINAGE PLAN	STA. 5940+00 TO STA. 5955+00
B		08/18/21		DR	45	DRAINAGE PLAN	STA. 5955+00 TO STA. 5965+00
B		08/18/21		DR	46	DRAINAGE PLAN	STA. 5965+00 TO STA. 5980+00
B		08/18/21		DR	47	DRAINAGE PLAN	STA. 5980+00 TO STA. 5995+00
B		08/18/21		DR	48	DRAINAGE PLAN	STA. 5995+00 TO STA. 6010+00
B		08/18/21		DR	49	DRAINAGE PLAN	STA. 6010+00 TO STA. 6025+00
B		08/18/21		DR	50	DRAINAGE PLAN	STA. 6025+00 TO STA. 6040+00
B		08/18/21		DR	51	DRAINAGE PLAN	STA. 6040+00 TO NB STA. 8050+00
B		08/18/21		DR	52	DRAINAGE PLAN	NB STA. 8050+00 TO STA. 8065+00
B		08/18/21		DR	53	DRAINAGE PLAN	NB STA. 8065+00 TO STA. 8071+00
B				DR	59	DRAINAGE PLAN	STA. 7+00 TO STA. 16+00
B				DR	60	DRAINAGE PLAN	STA. 16+00 TO STA. 31+00
4	X	1/14/2022	2041	DR	61	DRAINAGE PLAN	LAKE WASHINGTON BLVD
0		12/17/21	1950	DR	64	DRAINAGE PLAN	NB I-405 TO EB I-90
0		12/17/21	1950	DR	65	DRAINAGE PLAN	I-405 TO I-90 RAMP
0		12/17/21	1950	DR	67	DRAINAGE PLAN	DISPERSION AREA
B		08/18/21		DR	68	DRAINAGE PLAN	MAIN ST.
B				DR	71	DRAINAGE PLAN	N. SOUTHPORT DRIVE
1		11/12/21	1214	DR	PR	DRAINAGE PLAN	NEWPORT HILLS PARK & RIDE
B				DP	12	DRAINAGE PROFILES	STA. 5460+00 TO STA. 5475+00

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.		SHEET TITLE	SHEET DESCRIPTION
B				DP	12A	DRAINAGE PROFILES	STA. 5460+00 TO STA. 5475+00
B				DP	12B	DRAINAGE PROFILES	STA. 5460+00 TO STA. 5475+00
B				DP	13	DRAINAGE PROFILES	STA. 5475+00 TO STA. 5490+00
B				DP	13A	DRAINAGE PROFILES	STA. 5475+00 TO STA. 5490+00
B				DP	13B	DRAINAGE PROFILES	STA. 5475+00 TO STA. 5490+00
B				DP	14	DRAINAGE PROFILES	STA. 5490+00 TO STA. 5505+00
B				DP	14A	DRAINAGE PROFILES	STA. 5490+00 TO STA. 5505+00
B				DP	14B	DRAINAGE PROFILES	STA. 5490+00 TO STA. 5505+00
B				DP	14C	DRAINAGE PROFILES	STA. 5490+00 TO STA. 5505+00
B				DP	15	DRAINAGE PROFILES	STA. 5505+00 TO STA. 5520+00
B				DP	15A	DRAINAGE PROFILES	STA. 5505+00 TO STA. 5520+00
B				DP	15B	DRAINAGE PROFILES	STA. 5505+00 TO STA. 5520+00
B				DP	16	DRAINAGE PROFILES	STA. 5520+00 TO STA. 5535+00
B				DP	16A	DRAINAGE PROFILES	STA. 5520+00 TO STA. 5535+00
B				DP	17	DRAINAGE PROFILES	STA. 5535+00 TO STA. 5550+00
B				DP	17A	DRAINAGE PROFILES	STA. 5535+00 TO STA. 5550+00
B				DP	17B	DRAINAGE PROFILES	STA. 5535+00 TO STA. 5550+00
B				DP	18	DRAINAGE PROFILES	STA. 5550+00 TO STA. 5565+00
B				DP	18A	DRAINAGE PROFILES	STA. 5550+00 TO STA. 5565+00
B				DP	19	DRAINAGE PROFILES	STA. 5565+00 TO STA. 5580+00
B				DP	19A	DRAINAGE PROFILES	STA. 5565+00 TO STA. 5580+00
B				DP	19B	DRAINAGE PROFILES	STA. 5565+00 TO STA. 5580+00
B				DP	19C	DRAINAGE PROFILES	STA. 5565+00 TO STA. 5580+00
B				DP	20	DRAINAGE PROFILES	STA. 5580+00 TO STA. 5595+00
B				DP	20A	DRAINAGE PROFILES	STA. 5580+00 TO STA. 5595+00
B				DP	20B	DRAINAGE PROFILES	STA. 5580+00 TO STA. 5595+00
B				DP	20C	DRAINAGE PROFILES	STA. 5580+00 TO STA. 5595+00
B				DP	20D	DRAINAGE PROFILES	STA. 5580+00 TO STA. 5595+00
B				DP	20E	DRAINAGE PROFILES	STA. 5580+00 TO STA. 5595+00
B				DP	20F	DRAINAGE PROFILES	STA. 5580+00 TO STA. 5595+00
B				DP	21	DRAINAGE PROFILES	STA. 5595+00 TO STA. 5610+00
B				DP	21A	DRAINAGE PROFILES	STA. 5595+00 TO STA. 5610+00
B				DP	21B	DRAINAGE PROFILES	STA. 5595+00 TO STA. 5610+00
B				DP	21C	DRAINAGE PROFILES	STA. 5595+00 TO STA. 5610+00
B				DP	22	DRAINAGE PROFILES	STA. 5610+00 TO STA. 5625+00
B				DP	22A	DRAINAGE PROFILES	STA. 5610+00 TO STA. 5625+00
B				DP	23	DRAINAGE PROFILES	STA. 5625+00 TO STA. 5640+00
B				DP	23A	DRAINAGE PROFILES	STA. 5625+00 TO STA. 5640+00
B				DP	23B	DRAINAGE PROFILES	STA. 5625+00 TO STA. 5640+00
B				DP	24	DRAINAGE PROFILES	STA. 5640+00 TO STA. 5655+00
B				DP	24A	DRAINAGE PROFILES	STA. 5640+00 TO STA. 5655+00
B				DP	24B	DRAINAGE PROFILES	STA. 5640+00 TO STA. 5655+00
B				DP	24C	DRAINAGE PROFILES	STA. 5640+00 TO STA. 5655+00
B				DP	24D	DRAINAGE PROFILES	STA. 5640+00 TO STA. 5655+00
B				DP	25	DRAINAGE PROFILES	STA. 5655+00 TO STA. 5670+00
B				DP	25A	DRAINAGE PROFILES	STA. 5655+00 TO STA. 5670+00
B				DP	25B	DRAINAGE PROFILES	KENNYDALE LINE
2		12/2/20	716	DP	26	DRAINAGE PROFILES	STA. 5670+00 TO STA. 5685+00
B				DP	26A	DRAINAGE PROFILES	STA. 5670+00 TO STA. 5685+00
B				DP	26B	DRAINAGE PROFILES	STA. 5670+00 TO STA. 5685+00
0		07/03/20	265	DP	26C	DRAINAGE PROFILES	STA. 5670+00 TO STA. 5685+00
0		07/03/20	265	DP	26D	DRAINAGE PROFILES	KENNYDALE LINE
0		07/03/20	265	DP	27	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00
B				DP	27A	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00
B				DP	27B	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00
B				DP	27C	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00
B				DP	27D	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00

NO.	ISSUE DATE	ISSUE RECORD - DESCRIPTION	DESIGNED BY	ENTERED BY	CHECKED BY	DESIGN MANAGER:

REGION NO. 10 | STATE WASH

XL5467

CONTRACT NO. C9242

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

FLATIRON LANE

wood.

I-405
RENTON TO BELLEVUE
EXPRESS TOLL LANES

INDEX OF SHEETS - VOL 5

PLAN REF NO
IN05-2

Wood Environment & Infrastructure, Inc.
01/14/2022
Date
DQAM Initials
RELEASED FOR CONSTRUCTION

VOLUME 5

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.	SHEET TITLE	SHEET DESCRIPTION
B				DP 27E	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00
B				DP 27F	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00
B				DP 27G	DRAINAGE PROFILES	STA. 5685+00 TO STA. 5700+00
B				DP 28	DRAINAGE PROFILES	STA. 5700+00 TO STA. 5715+00
B				DP 28A	DRAINAGE PROFILES	STA. 5700+00 TO STA. 5715+00
B				DP 28B	DRAINAGE PROFILES	STA. 5700+00 TO STA. 5715+00
B				DP 28C	DRAINAGE PROFILES	STA. 5700+00 TO STA. 5715+00
B				DP 29	DRAINAGE PROFILES	STA. 5715+00 TO STA. 5730+00
B				DP 29A	DRAINAGE PROFILES	STA. 5715+00 TO STA. 5730+00
B				DP 29B	DRAINAGE PROFILES	STA. 5715+00 TO STA. 5730+00
B				DP 30	DRAINAGE PROFILES	STA. 5730+00 TO STA. 5745+00
B				DP 30A	DRAINAGE PROFILES	STA. 5730+00 TO STA. 5745+00
B				DP 30B	DRAINAGE PROFILES	STA. 5730+00 TO STA. 5745+00
1		11/12/21	1214	DP 31A	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 31B	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 31C	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 31D	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 31E	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 31F	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 31G	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 31H	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
0		11/12/21	1214	DP 31I	DRAINAGE PROFILES	STA. 5745+00 TO STA. 5760+00
1		11/12/21	1214	DP 32A	DRAINAGE PROFILES	STA. 5760+00 TO STA. 5775+00
1		11/12/21	1214	DP 32B	DRAINAGE PROFILES	STA. 5760+00 TO STA. 5775+00
0		11/12/21	1214	DP 32C	DRAINAGE PROFILES	STA. 5760+00 TO STA. 5775+00
2		11/12/21	370	DP 33A	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
2		11/12/21	370	DP 33B	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 33C	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 33D	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 33E	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 33F	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 33G	DRAINAGE PROFILES	STA. 7770+36 TO STA. 7785+48
1		11/12/21	1214	DP 33H	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 33I	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 33J	DRAINAGE PROFILES	STA. 5775+00 TO STA. 5790+00
1		11/12/21	1214	DP 34A	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34B	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34C	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34D	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34E	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34F	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34G	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34H	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 34I	DRAINAGE PROFILES	STA. 5790+00 TO STA. 5805+00
1		11/12/21	1214	DP 35A	DRAINAGE PROFILES	STA. 5805+00 TO STA. 5820+00
1		11/22/21	1889	DP 35B	DRAINAGE PROFILES	STA. 5805+00 TO STA. 5820+00
1		11/22/21	1889	DP 35C	DRAINAGE PROFILES	STA. 5805+00 TO STA. 5820+00
1		11/22/21	1889	DP 35D	DRAINAGE PROFILES	STA. 5805+00 TO STA. 5820+00
C		11/22/21	1889	DP 35E	DRAINAGE PROFILES	STA. 5805+00 TO STA. 5820+00
0		11/22/21	1889	DP 36	DRAINAGE PROFILES	STA. 5820+00 TO STA. 5835+00
0		11/22/21	1889	DP 36A	DRAINAGE PROFILES	STA. 5820+00 TO STA. 5835+00
0		11/22/21	1889	DP 36B	DRAINAGE PROFILES	STA. 5820+00 TO STA. 5835+00
0		11/22/21	1889	DP 36C	DRAINAGE PROFILES	STA. 5820+00 TO STA. 5835+00
0		11/22/21	1889	DP 37	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00
0		11/22/21	1889	DP 37A	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00
0		11/22/21	1889	DP 37B	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00
0		11/22/21	1889	DP 37C	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.	SHEET TITLE	SHEET DESCRIPTION
0		11/22/21	1889	DP 37D	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00
0		11/22/21	1890	DP 37E	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00
0		11/22/21	1891	DP 37F	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00
0		11/22/21	1892	DP 37G	DRAINAGE PROFILES	STA. 5835+00 TO STA. 5850+00
0		11/22/21	1893	DP 38	DRAINAGE PROFILES	STA. 5850+00 TO STA. 5865+00
0		08/06/21	1037	DP 38A	DRAINAGE PROFILES	STA. 5850+00 TO STA. 5865+00
0		08/12/21	1037	DP 39	DRAINAGE PROFILES	STA. 5865+00 TO STA. 5880+00
0		08/06/21	1037	DP 39A	DRAINAGE PROFILES	STA. 5865+00 TO STA. 5880+00
0		08/12/21	1037	DP 39B	DRAINAGE PROFILES	STA. 5865+00 TO STA. 5880+00
0		03/08/21	1037	DP 39C	DRAINAGE PROFILES	STA. 5865+00 TO STA. 5880+00
0		08/12/21	1037	DP 39D	DRAINAGE PROFILES	STA. 5865+00 TO STA. 5880+00
0		08/03/21	1037	DP 40	DRAINAGE PROFILES	STA. 5880+00 TO STA. 5895+00
0		08/13/21	1037	DP 41	DRAINAGE PROFILES	STA. 5895+00 TO STA. 5910+00
0		11/22/21	1889	DP 41A	DRAINAGE PROFILES	STA. 5895+00 TO STA. 5910+00
0		08/12/21	1037	DP 41B	DRAINAGE PROFILES	STA. 5895+00 TO STA. 5910+00
0		08/13/21	1037	DP 41C	DRAINAGE PROFILES	STA. 5895+00 TO STA. 5910+00
0		08/13/21	1037	DP 41D	DRAINAGE PROFILES	STA. 5895+00 TO STA. 5910+00
0		08/13/21	1037	DP 42	DRAINAGE PROFILES	STA. 5910+00 TO STA. 5925+00
0		3/18/21	1037	DP 42A	DRAINAGE PROFILES	STA. 5910+00 TO STA. 5925+00
0		3/18/21	1037	DP 42B	DRAINAGE PROFILES	STA. 5910+00 TO STA. 5925+00
B		08/18/21		DP 43	DRAINAGE PROFILES	STA. 5925+00 TO STA. 5940+00
B		08/18/21		DP 43A	DRAINAGE PROFILES	STA. 5925+00 TO STA. 5940+00
B		08/18/21		DP 43B	DRAINAGE PROFILES	STA. 5925+00 TO STA. 5940+00
B		2/8/21		DP 43C	DRAINAGE PROFILES	STA. 5937+00 TO STA. 5939+00
B		08/18/21		DP 44	DRAINAGE PROFILES	STA. 5940+00 TO STA. 5955+00
B		08/18/21		DP 44A	DRAINAGE PROFILES	STA. 5940+00 TO STA. 5955+00
B		08/18/21		DP 44B	DRAINAGE PROFILES	STA. 5940+00 TO STA. 5955+00
B		08/18/21		DP 45	DRAINAGE PROFILES	STA. 5955+00 TO STA. 5965+00
B		08/18/21		DP 45A	DRAINAGE PROFILES	STA. 5955+00 TO STA. 5965+00
B		08/18/21		DP 46	DRAINAGE PROFILES	STA. 5965+00 TO STA. 5980+00
B		08/18/21		DP 46A	DRAINAGE PROFILES	STA. 5965+00 TO STA. 5980+00
B		08/18/21		DP 47	DRAINAGE PROFILES	STA. 5980+00 TO STA. 5995+00
B		08/18/21		DP 47A	DRAINAGE PROFILES	STA. 5980+00 TO STA. 5995+00
B		08/18/21		DP 48	DRAINAGE PROFILES	STA. 5995+00 TO STA. 6010+00
B		08/18/21		DP 48A	DRAINAGE PROFILES	STA. 5995+00 TO STA. 6010+00
B		08/18/21		DP 48B	DRAINAGE PROFILES	STA. 5995+00 TO STA. 6010+00
B		08/18/21		DP 52	DRAINAGE PROFILES	NB STA. 8050+00 TO STA. 8065+00
B				DP 59	DRAINAGE PROFILES	NE 44TH STREET
B				DP 60	DRAINAGE PROFILES	NE 44TH STREET
B				DP 60A	DRAINAGE PROFILES	NE 44TH STREET
4	X	1/14/2022	2041	DP 61	DRAINAGE PROFILES	LAKE WASHINGTON BLVD
2	X	1/14/2022	2041	DP 61A	DRAINAGE PROFILES	LAKE WASHINGTON BLVD
4	X	1/14/2022	2041	DP 61B	DRAINAGE PROFILES	LAKE WASHINGTON BLVD
B				DP 61C	DRAINAGE PROFILES	LAKE WASHINGTON BLVD
0		3/18/21	1037	DP 65	DRAINAGE PROFILES	I-405 TO I-90 RAMPS
B		08/18/21		DP 68	DRAINAGE PROFILES	MAIN ST.
B				DP 71	DRAINAGE PROFILES	JC
B				DP 71A	DRAINAGE PROFILES	JC
1		11/12/21	370	DP PR-A	DRAINAGE PROFILES	PARK & RIDE
1		11/12/21	370	DP PR-B	DRAINAGE PROFILES	PARK & RIDE
1		11/12/21	265	DD 01	DRAINAGE DETAILS	
4	X	1/14/2022	2041	DD 02	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1	X	1/14/2022	2041	DD 02A	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1	X	1/14/2022	2041	DD 02B	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1	X	1/14/2022	2041	DD 02C	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1	X	1/14/2022	2041	DD 03	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1	X	1/14/2022	2041	DD 03A	DRAINAGE DETAILS	LAKE WASHINGTON BLVD

NO.	ISSUE DATE	ISSUE RECORD - DESCRIPTION	DESIGNED BY	ENTERED BY	CHECKED BY	DESIGN MANAGER:

REGION NO. 10 | STATE WASH

XL5467

CONTRACT NO. C9242

DATE

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Washington State Department of Transportation

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PLAN REF NO
IN05-3

Wood Environment & Infrastructure, Inc.
01/14/2022
Date
DQAM Initials
RELEASED FOR CONSTRUCTION

VOLUME 5

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.		SHEET TITLE	SHEET DESCRIPTION
2	X	1/14/2022	2041	DD	04	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1	X	1/14/2022	2041	DD	04A	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1	X	1/14/2022	2041	DD	04B	DRAINAGE DETAILS	TYPICAL CABS DETAILS
0		6/18/21	1492	DD	04C	DRAINAGE DETAILS	DRAINAGE CONNECTION DETAILS
0			297	DD	05	TEMPORARY DRAINAGE DETAILS - GN1	
B				DD	06	DRAINAGE DETAILS	STREAM 8.12 DIVERSION CHANNEL
B				DD	07	DRAINAGE DETAILS	DRAINAGE DITCH NOTES
B				DD	08	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
B				DD	09	DRAINAGE DETAILS	CABS #3
B				DD	09A	DRAINAGE DETAILS	CABS #3
B				DD	10	DRAINAGE DETAILS	CABS #4.1, #4.2, #4.3, #4.4, #4.5, #4.6, #5
B				DD	10A	DRAINAGE DETAILS	NB 405 - NE 44 RAMP
B				DD	10B	DRAINAGE DETAILS	NB 405 - NE 44 RAMP
B				DD	10C	DRAINAGE DETAILS	NB 405 - NE 44 RAMP
B				DD	10D	DRAINAGE DETAILS	NB 405 - NE 44 RAMP
B				DD	11	DRAINAGE DETAILS	CABS #6
B				DD	11A	DRAINAGE DETAILS	NE44-SB405
0		08/14/20	370	DD	12	DRAINAGE DETAILS	GN1
B				DD	13	DRAINAGE DETAILS	CABS #7.1 & #7.2
B				DD	13A	DRAINAGE DETAILS	SB405-NE44
B				DD	14	DRAINAGE DETAILS	CABS #7.3 & #7.4
B				DD	14A	DRAINAGE DETAILS	SB405-NE44
B				DD	15	BIORETENTION CELLS DETAILS	
B				DD	15A	BIORETENTION CELL DETAIL	
B				DD	15B	BIORETENTION CELL DETAIL	
B				DD	15C	BIORETENTION CELL DETAIL	
B		11/22/21	1889	DD	15D	BIORETENTION CELL DETAIL	
B		11/22/21	1889	DD	15E	CABS DETAIL	
B		11/22/21	1889	DD	15F	BIORETENTION CELL DETAIL	
B		11/22/21	1889	DD	15G	BIORETENTION CELL DETAIL	
B		11/22/21	1889	DD	15H	BIORETENTION CELL DETAIL	POND D LEVEL SPREADER
B		11/22/21	1889	DD	16	BIORETENTION CELL DETAIL	SECTION A-A
B		11/22/21	1889	DD	17	BIORETENTION CELL DETAIL	SECTION B-B
B		11/22/21	1889	DD	18	BIORETENTION CELL DETAIL	SECTION C-C
B		11/22/21	1889	DD	20	BIORETENTION CELL DETAIL	
1		11/22/21	1889	DD	21	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	21A	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	22	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	22A	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	23	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	23A	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	24	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	24A	DRAINAGE DETAILS	LAKE WASHINGTON BLVD
1		11/12/21	1214	DD	27	DRAINAGE DETAILS	DITCH SUMMARY TABLE
1		11/12/21	1214	DD	28	DRAINAGE DETAILS	DITCH SUMMARY TABLE
0		08/19/21	1037	DD	31	DRAINAGE DETAILS	CABS 9.95/W3-1
0		2/16/21	1037	DD	32	DRAINAGE DETAILS	CABS 10.00/W3-2
0		08/13/21	1037	DD	33	DRAINAGE DETAILS	CABS 10.17/W3-2 SW
0		03/25/21	1037	DD	34	DRAINAGE DETAILS	CABS 10.26/W3-2 NW
0		08/19/21	1037	DD	35	DRAINAGE DETAILS	CABS 11.25/W4
0		2/16/21	1037	DD	36	DRAINAGE DETAILS	CABS TYPICAL SECTIONS
B		07/28/21	1037	DD	37	DRAINAGE DETAILS	DISPERSION SITE PLAN
B		03/23/21	1037	DD	37A	DRAINAGE DETAILS	WEIR PANEL SECTIONS AND DETAILS
B		03/23/21	1037	DD	37B	DRAINAGE DETAILS	PANEL CONNECTIONS DETAILS
B		03/23/21	1037	DD	37C	DRAINAGE DETAILS	RETAINING PANEL SECTIONS AND DETAILS
0		03/2/21	1037	DD	38	DRAINAGE DETAILS	CABS PROFILES
0		08/13/21	1037	DD	39	DRAINAGE DETAILS	DITCH SUMMARY TABLE

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.		SHEET TITLE	SHEET DESCRIPTION
0		08/12/21	1037	DD	40	DRAINAGE DETAILS	HYDRODYNAMIC SEPARATOR
B		08/18/21		DD	41	DRAINAGE DETAILS	CABS AND DETENTION B
B		08/18/21		DD	41A	DRAINAGE DETAILS	CABS AND DETENTION B
B		08/18/21		DD	42	DRAINAGE DETAILS	CABS AND DETENTION C
B		08/18/21		DD	42A	DRAINAGE DETAILS	CABS AND DETENTION C
B		08/18/21		DD	43	DRAINAGE DETAILS	FLOW SPLITTER
A		08/18/21		DD	43A	DRAINAGE DETAILS	FLOW RESTRICTOR & OUTLET STRUCTURE
B		08/18/21		DD	44	DRAINAGE DETAILS	DETENTION VAULT F
B		08/18/21		DD	45	DRAINAGE DETAILS	DITCHES
		2/8/21		DD	45A	DRAINAGE DETAILS	DITCHES
		08/18/21		DD	48	DRAINAGE DETAILS	GUTTER TRANSITION DETAIL
		11/12/21		DD	51	DRAINAGE DETAILS	DRAINAGE STRUCTURE PLACEMENT
		11/12/21		DD	52	DRAINAGE DETAILS	TYPICAL CABS DETAILS
		11/12/21		DD	52A	DRAINAGE DETAILS	TYPICAL CABS DETAILS
		11/12/21		DD	52B	DRAINAGE DETAILS	TYPICAL CABS DETAILS
		11/12/21		DD	52C	DRAINAGE DETAILS	TYPICAL CABS DETAILS
		11/12/21		DD	53	DRAINAGE DETAILS	DRAINAGE CONNECTION DETAILS
		11/12/21		DD	53A	DRAINAGE DETAILS	DRAINAGE CONNECTION DETAILS
		11/12/21		DD	54	DRAINAGE DETAILS	DITCH LINING AND OUTFALL DETAILS
		11/12/21		DD	55	DRAINAGE DETAILS	DROP STRUCTURE DETAILS
		11/12/21		DD	56	DRAINAGE DETAILS	MEDIA FILTER DRAIN TYPES 1 AND 3
		11/12/21		DD	57	DRAINAGE DETAILS	FLOW SPLITTER MANHOLE
				DD	61	DRAINAGE DETAILS	CABS 1.0, 1.1, 1.2
				DD	62	DRAINAGE DETAILS	CABS 2.0
				DD	63	DRAINAGE DETAILS	CABS 5.0, 5.1, 5.2
				DD	64	DRAINAGE DETAILS	CABS 4.0
				DD	65	DRAINAGE DETAILS	CABS 4.1
				DD	66	DRAINAGE DETAILS	CABS 4.2
				DD	67	DRAINAGE DETAILS	CABS TYPICAL SECTIONS
				DD	68	DRAINAGE DETAILS	JC- OUTFALL
				DD	69	DRAINAGE DETAILS	SPC VAULT DETAILS
				DD	70	DRAINAGE DETAILS	DETENTION VAULT DETAILS
		10/23/20		PS	1	PUMP STATION	PLAN VIEW
		10/23/20		PS	2	PUMP STATION	PROFILE VIEW
		10/23/20		PS	3	PUMP STATION	SECTION VIEW

Wood Environment & Infrastructure, Inc.
01/14/2022
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NO.	ISSUE DATE	ISSUE RECORD - DESCRIPTION	DESIGNED BY	ENTERED BY	CHECKED BY	DESIGN MANAGER:

REGION NO. / NO.: 10
STATE: WASH
XL5467
CONTRACT NO.
C9242

DATE
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DATE
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Washington State Department of Transportation
FLATIRON LANE
wood.

I-405
RENTON TO BELLEVUE
EXPRESS TOLL LANES

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PLAN REF NO
IN05-4

NOTE:
THE FIRST NUMBER OF THE CODE DESIGNATION BELOW REFERS TO THE SHEET NO. SHOWING THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

ID NO.	LOCATION (SEE NOTE 4)	CATCH BASIN TYPE 1 WSDOT STD. PLAN B-5.20-03	CATCH BASIN TYPE 1L WSDOT STD. PLAN B-5.40-02	COMBINATION INLET WSDOT STD. PLAN B-25.20-02	CATCH BASIN TYPE 2 (48 IN DIA.) WSDOT STD. PLAN B-10.20-02	MANHOLE TYPE 3 (84 IN DIA.) WSDOT STD. PLAN B-15.60-02	MANHOLE TYPE 3 (120 IN DIA.) WSDOT STD. PLAN B-15.60-02	FLOW SPLITTER (72 IN DIA.) SEE DD-04	RECTANGULAR VANED GRATE WSDOT STD. PLAN B-30.30-03	RECTANGULAR BI DIRECTIONAL VANED GRATE. WSDOT STD. PLAN B-30.40-03	ROLLED CURB DRAIN WSDOT STD. PLAN B-30.05-00	RECTANGULAR FRAME AND SOLID METAL COVER. WSDOT STD. PLAN B-30.20-04	CIRCULAR FRAME (RING) AND COVER. WSDOT STD. PLAN B-30.70-04 WITH "DRAIN" STAMPED ON COVER	CATCH BASIN TYPE 1 RENTON STD. PLAN 200.00	CATCH BASIN TYPE 1L RENTON STD. PLAN 200.10	CATCH BASIN TYPE 2 (48 IN DIA.) RENTON STD. PLAN 201.00	CATCH BASIN TYPE 2 (54 IN DIA.) RENTON STD. PLAN 201.00	CATCH BASIN TYPE 2 (60 IN DIA.) RENTON STD. PLAN 201.00	RECTANGULAR VANED GRATE RENTON STD. PLAN 204.20	RECTANGULAR BI DIRECTIONAL VANED GRATE. RENTON STD. PLAN 204.30	STORM ROUND FRAME AND COVER. RENTON STD. PLAN 204.50	SCHEDULE A STORM SEWER PIPE 18 IN. DIA. WSDOT STD. 7-04 & 7-08	DUCTILE IRON (DI) STORM SEWER PIPE 12 IN. DIA. WSDOT STD. 7-04 & 7-08	DUCTILE IRON (DI) STORM SEWER PIPE 18 IN. DIA. WSDOT STD. 7-04 & 7-08	DUCTILE IRON (DI) STORM SEWER PIPE 24 IN. DIA. WSDOT STD. 7-04 & 7-08	CPSSP STORM SEWER PIPE 12 IN. DIA. WSDOT STD. 7-04 & 7-08	CPSSP STORM SEWER PIPE 18 IN. DIA. WSDOT STD. 7-04 & 7-08	CPSSP STORM SEWER PIPE 24 IN. DIA. WSDOT STD. 7-04 & 7-08	CPSSP STORM SEWER PIPE 30 IN. DIA. WSDOT STD. 7-04 & 7-08	CPSSP STORM SEWER PIPE 48 IN. DIA. WSDOT STD. 7-04 & 7-08	RCP STORM SEWER PIPE 18 IN. DIA. WSDOT STD 7-04 & 7-08	UNDERDRAIN PIPE 6 IN. DIA. WSDOT STD. 7-01 & 7-08	ABANDON EXISTING CATCH BASIN WSDOT STD. 7-05	ABANDON EXISTING STORM SEWER WSDIT STD. 2-09.3	REMOVE DRAINAGE STRUCTURE WSDOT STD. 2-02	REMOVE EXISTING STORM SEWER WSDOT STD. 7-02	CONSTRUCTION NOTES	GENERAL NOTES
		EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	LF	EA	LF	4	4
DR61-1	LWBS 56+40.77																																						SEE NOTE 9	1. ALL DRAINAGE FEATURES SHALL BE CONSTRUCTED PER WDOT STANDARD PLANS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
DR61-2	LWBS ONRAMP 20+96.83	1									1												25																
DR61-2A	LWBS ONRAMP 21+23.15		1						1															26															
DR61-3	LWBS ONRAMP 21+48.89		1						1															100															2. REUSED EXISTING INFRASTRUCTURE SHALL BE CLEANED, SURVEYED, AND VALIDATED PER WSDOT STD. 7-07.
DR61-3A	LWBS ONRAMP 22+49.29				1								1											17														4	3. EXISTING INFRASTRUCTURE DETERMINED FROM SURVEY AND AS-BUILT DRAWINGS, CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
DR61-4	LWBS ONRAMP 22+56.34							1					1									73																	
P61-4A	LWBS ONRAMP 22+56.34																							18															
DR61-5	LWBS ONRAMP 23+29.01				1								1											81															
DR61-6	LWBS 54+80.18															1			1								25												4. SEE PROFILE SHEETS FOR EXACT STATION/OFFSET LOCATIONS. SEE DETAIL SHEET DD-51 FOR DRAINAGE STRUCTURE PLACEMENT
DR61-7	LWBS 55+04.72															1			1								36												
DR61-8	LWBS 56+69.19					1															1											72							
DR61-8A	LWBS 56+95.52				1								1											32															
DR61-9	LWBS 57+00.99		1	1						1														6															
DR61-10	LWBS 57+01.58		1	1						1														15														4	5. GALVANIZED PRODUCTS ARE NOT ALLOWED ON STORM DRAINAGE PIPES AND OTHER HYDRAULIC STRUCTURES, SUCH AS GRATES, CONTROL STRUCTURES, LADDER RUNGS, AND BIRDCAGES ON TOP OF OVERFLOW STRUCTURES.
DR61-11	LWBS 56+33.41																1				1									34									
DR61-11A	LWBS 57+16.30																1				1									25									
DR61-12	LWBS 57+52.36																1		1											33								4	6. EXISTING PIPE CONNECTIONS TO PROPOSED STRUCTURES SEE DETAIL SHEET DD-53.
DR61-13	LWBS 58+09.95																1		1									52										
DR61-14	LWBS 58+32.76																1			1								20										
DR61-15	LWBS 58+54.26															1			1									20										
DR61-16	LWBS 59+10.83															1			1									59										
DR61-17	LWBS 59+71.84															1					1						64											
DR61-18	LWBS 53+29.02															1			1													140						4	7. DUCTILE IRON PIPE SHALL USE CLASS 50 OR PRESSURE CLASS 350 IN ACCORDANCE WITH STD. SPECIFICATION 9-05.13.
DR61-19	LWBS 54+68.97															1			1								41												
DR61-20	LWBS 55+10.22															1			1								88												8. FOR PIPES DEEPER THAN 30FT, USE RESTRAINED PUSH ON JOINTS TR-FLEX OR SIMILAR. SEE STANDARD SPECIFICATIONS 9-30.1(1), 9-30.2(2), AND 9-30.2(6)
DR61-21	LWBS 56+03.14																	1			1									111									
DR61-22	LWBS 56+22.98		1	1						1														24														4	9. CONNECT NEW 48" PIPE TO EXISTING 120" MH BY CUTTING INTO MH AND GROUTING AROUND EXTERIOR OF NEW PIPE
DR61-23	LWBS 59+00.93				1								1												149														
DR61-24	LWBS 59+77.09															1			1								58											REMOVE AND REPLACE CATCH BASIN	
DR61-24A	LWBS 60+07.94															1					1						33												
DR61-25	LWBS 60+42.55															1			1								33											4	
DR61-26	LWBS 61+71.70																		1								128												
DR61-28	LWBS 55+96.93													1					1				38																
DR61-29	LWBS 56+06.90		1	1						1														24															
DR61-29A	LWBS 56+24.70		1									1												8														4	
DR61-30	LWBS 55+99.20													1						1			10																
DR61-31	LWBS 56+02.73													1					1				11																
DR61-32	LWBS 59+20.21																											87										
DSP61-A3	LWBS 56+18.83																																	1	42				
DSP61-A4	LWBS 56+88.57																																	1	47				
DSP61-A5	LWBS 59+11.25																																	1					
DSP61-A6	LWBS 60+78.56																																		109	1			
DSP61-A7	LWBS 61+80.20																																		102	1			
DSP61-A8	LWBS 55+19.61																																		14	1			
DSP61-A9	LWBS 56+24.68																																		50	1			
DSP61-A9A	LWBS 54+84.48																																		147				
DSP61-A11	LWBS 59+86.58																																				7	REMOVE 7' AND CONNECT TO NEW CATCH BASIN	
DSP61-A11A	LWBS 59+72.25																																			1	52		
DSP61-A12	LWBS 59+15.68					4			4				4				4				4			4			4		4		4			4		1	27	4	
	SHEET TOTAL	1	7	4	4	1	0	1	2	4	1	1	5	3	0	12	5	1	14	2	6	73	84	351	149	0	507	238	203	72	140	0	3	511	6	86			

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DESIGNED BY	C. WEST	REV 3 NDC 035	6/18/21	BB	CONTRACT NO.		LOCATION NO.	
ENTERED BY	E. WOOD	REV 2 FDC 019	2/3/21	BB	C9242			
CHECKED BY	B. BETTAG	REV 1 NDC 009	7/31/20	BB				
PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	7/3/20	BB				
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY				

BRADLEY CHRISTOPHER BETTAG — STATE OF WASHINGTON — 20101135 — REGISTERED PROFESSIONAL ENGINEER
1/14/22
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
FLATIRON LANE
wood.

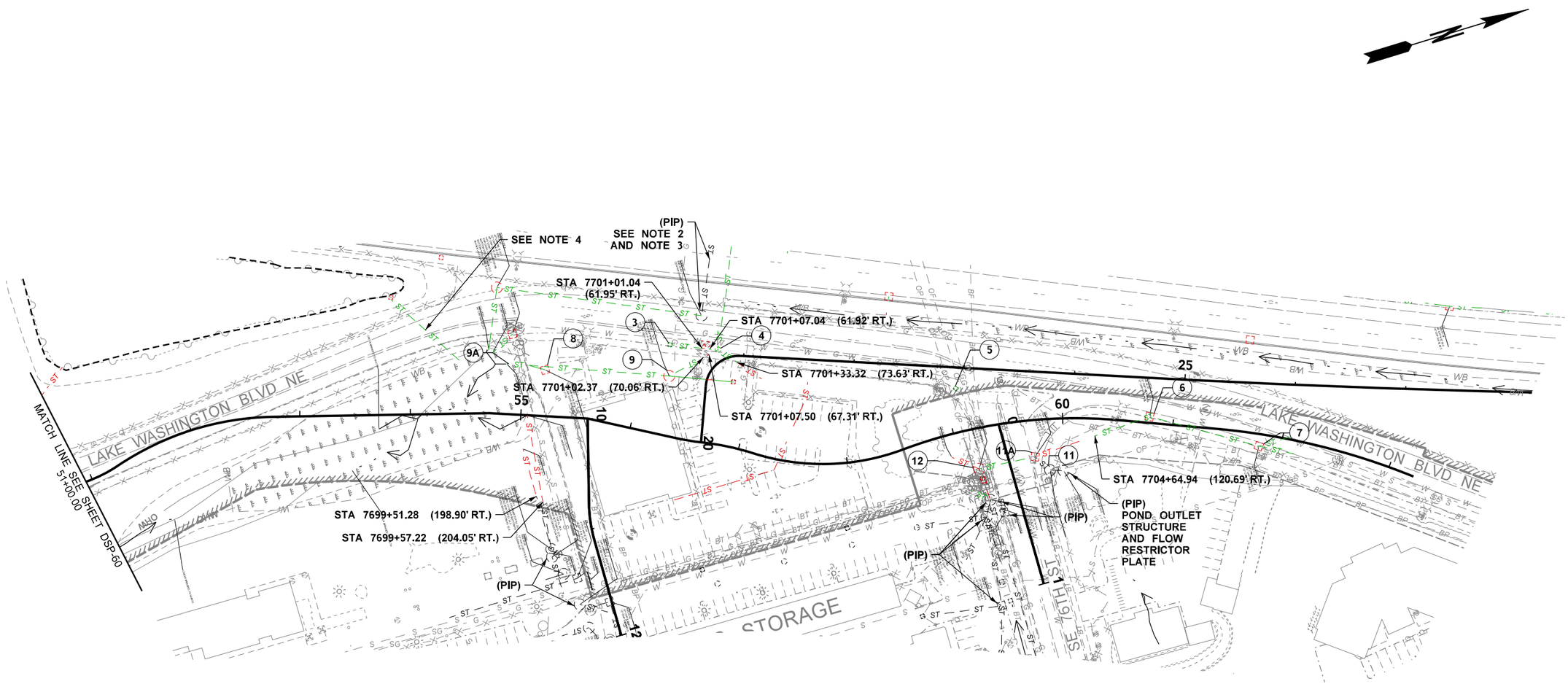
I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

STRUCTURAL NOTES DRAINAGE

PLAN REF NO DR-F

SHEET XX OF SHEETS

Wood Environment & Infrastructure, Inc.
01/14/2022
Date
DQAM Initials
RELEASED FOR CONSTRUCTION



NOTES:

1. ABANDONMENT OR REMOVAL OF EXISTING CULVERTS SHALL BE IN ACCORDANCE WITH DIVISIONS 2 AND 7 OF THE STANDARD SPECIFICATIONS.
2. CONTRACTOR SHALL CLEAN AND INSPECT ALL REUSED DRAINAGE STRUCTURES AND PIPE
3. CONTRACTOR TO VERIFY CONDITION OF CROSS DRAIN AND SUBMIT CONDITION ASSESSMENT TO ENGINEER. PIPE TO BE SLIPLINED OR REPLACED IF IN INADEQUATE CONDITION.
3. ENSURE FULL CAPACITY OF EXISTING 48" CROSSDRAIN UNDER I-405 IS MAINTAINED DURING CONSTRUCTION.
4. STORMWATER FEATURE AND PIPE SYSTEM TO BE REMOVED FOR EARLY WORK PRIOR TO ROADWAY EXPANSION BETWEEN STA 7705+00 AND 7770+00. A TEMPORARY DISCHARGE SHALL BE INSTALLED TO DIVERT FLOW TO UNT.08.LW.0283 FROM THIS AREA TO AVOID FLOODING IN THIS AREA. SEE TESC PLANS.

0 50 100
SCALE IN FEET

LEGEND

STORM SEWER LINE - REMAIN	- ST — — ST — — ST —	STRUCTURAL NOTE CODE	(X)
STORM SEWER LINE - REMOVE	- ST — — ST — — ST —	CATCH BASIN - REMAIN	
STORM SEWER LINE - ABANDON	- ST — — ST — — ST —	CATCH BASIN - REMOVE	
STORM CULVERT - EXISTING		CATCH BASIN - ABANDON	
DITCH - EXISTING		GRATE INLET - REMAIN	
RIGHT OF WAY - NEW		GRATE INLET - REMOVE	
RIGHT OF WAY - EXISTING		GRATE INLET - ABANDON	

MANHOLE - REMAIN	
MANHOLE - REMOVE	
MANHOLE - ABANDON	
WETLAND AREA	
STREAM BUFFER	
SHORELINE BOUNDARY	
PROTECT IN PLACE	(PIP)

Wood Environment & Infrastructure, Inc.
01/14/2022
Date
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DESIGNED BY	E. JEFFERSON
ENTERED BY	M. CRATER
CHECKED BY	B. BETTAG
PROJ. ENGR.	J. LEFOTU
REGIONAL ADM.	L. HODGSON

REVISION	DATE	BY
REV 0 RELEASE FOR CONSTRUCTION	1/14/22	BB

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
XL5467		
CONTRACT NO.		LOCATION NO.
C9242		

BRADLEY CHRISTOPHER BETTAG
STATE OF WASHINGTON
20101135
REGISTERED PROFESSIONAL ENGINEER
1/14/22
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
FLATIRON LANE
wood.

I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

DRAINAGE SITE PREPARATION PLAN
LAKE WASHINGTON BLVD

PLAN REF NO
DSP-61

SHEET
XX
OF
SHEETS

UNDERDRAIN SUMMARY

NOTE: THE FIRST NUMBER OF THE 'CODE DESIGNATION' BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THE SHEET

GENERAL NOTES;

1. UNDERDRAIN ID IS A UNIQUE IDENTIFIER BASED OFF DOWNSTREAM CONNECTING STRUCTURE. IF NOT CONNECTING TO A STRUCTURE, THE UNDERDRAIN WILL HAVE A SEPARATE IDENTIFIER.
2. SEE DRAINAGE PROFILES FOR FLOW LINE ELEVATIONS UNLESS LISTED OTHERWISE.
3. SEE SHEET DD-53A FOR UD ROADWAY DETAIL

UNDERDRAIN ID	CONNECTING STRUCTURE ID NO.	START STATION OR STRUCTURE ID	END STATION OR STRUCTURE ID	TYPE (WALL, BARRIER, CABS)	PLACEMENT DETAIL	OUTLET PROTECTION SEE SHEET DD-54 AND WSDOT STD. 9-13	DRAIN PIPE 6 IN. DIA. WSDOT STD. 7-01 & 7-08, OR APPROVED EQUAL (DEPTHS <15')	DRAIN PIPE DOUBLE-WALLED CORRUGATED HDPE 6 IN. DIA. AASHTO M252/M294, OR APPROVED EQUAL (DEPTHS 15'-40')	UNDERDRAIN PIPE 6 IN. DIA. WSDOT STD. 7-01 & 7-08, OR APPROVED EQUAL (DEPTHS <15')	UNDERDRAIN PIPE DOUBLE-WALLED CORRUGATED HDPE 6 IN. DIA. AASHTO M252/M294, OR APPROVED EQUAL (DEPTHS 15'-40')	UNDERDRAIN PIPE DOUBLE-WALLED CORRUGATED HDPE 8 IN. DIA. AASHTO M252/M294, OR APPROVED EQUAL (DEPTHS 15'-40')	NOTES
						EA	LF	LF	LF	LF	LF	
CABS1.5-UD1	DR61-10	7702+77.57	DR61-10	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	131	0	0	See drainage sheet DP61B for drianage structure tie-in location
CABS1.5-UD2	DR61-10	7702+77.57	DR61-10	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	132	0	0	
CABS1-UD1	DR61-9	7702+80.92	DR61-9	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	131	0	0	See drainage sheet DP61B for drianage structure tie-in location
CABS1-UD2	DR61-9	7702+81.47	DR61-9	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	131	0	0	
CABS2.5-UD1	DR61-29	7701+56.45	DR61-29	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	140	0	0	See drainage sheet DP61B for drianage structure tie-in location
CABS2.5-UD2	DR61-29	7701+63.05	DR61-29	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	133	0	0	
CABS2-UD1	DR61-22	7701+85.12	DR61-22	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	138	0	0	See drainage sheet DP61B for drianage structure tie-in location
CABS2-UD2	DR61-29A	7701+82.95	DR61-29A	CABS	SEE SEGMENT 1B DR61 SHEETS	0	0	0	133	0	0	See drainage sheet DP61B for drianage structure tie-in location
DR61-12.1	DR61-12	7705+90.07	DR61-12	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	0	0	402	0	0	See drainage sheet DP61A for drianage structure tie-in location
DR61-21.1	DR61-21	7700+22.08	DR61-21	WALL	SEE WALL 07.59R DETAILS	0	0	0	75	0	0	See drainage sheet DP61, DP61B, or DP61C for drianage structure tie-in location
DR61-23.1	DR61-23	7704+00.79	DR61-23	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	0	0	97	0	0	See drainage sheet DP61B for drianage structure tie-in location
DR61-23.2	DR61-23	7700+13.93	DR61-23	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	0	0	363	0	0	
DR61-24.1	DR61-24	7704+95.20	DR61-24	WALL	SEE WALL 07.65R DETAILS	0	0	0	81	0	0	See drainage sheet DP61A for drianage structure tie-in location
DR61-24.2	DR61-24	7704+27.95	DR61-24	BARRIER	SEE SEGMENT 1B DR61 SHEETS	0	0	0	72	0	0	
DR61-31.1	DR61-31	7700+26.88	DR61-31	BARRIER	SEE SEGMENT 1B DR61 SHEETS	0	0	0	39	0	0	See drainage sheet DP61 for drianage structure tie-in location
DR61-3A.1	DR61-3A	7701+01.05	DR61-3A	BARRIER	SEE SEGMENT 1B DR61 SHEETS	0	0	0	203	0	0	See drainage sheet DP61B for drianage structure tie-in location
DR61-5.1	DR61-5	7706+35.03	DR61-5	WALL	SEE WALL 07.65IR DETAILS	0	0	0	0	0	264	See drainage sheet DP61B for drianage structure tie-in location
DR61-DP1	N/A	7697+45.24	7697+42.52 (172.09' RT.) ELEV. 23.75'	WALL	SEE WALL 07.46R DETAILS	0	0	20	0	0	0	Install anti-rodent flapgate. See drainage sheet DR61 for tie-in location
DR61-DP2	N/A	7697+14.17	7697+13.11 (173.73' RT.) ELEV. 23.75'	WALL	SEE WALL 07.46R DETAILS	0	0	16	0	0	0	Install anti-rodent flapgate. See drainage sheet DR61 for tie-in location
DR61-DP5	NA	7698+84.63	7698+22.86	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	64	0	0	0	0	Install anti-rodent flapgate. See drainage sheet DR61 for tie-in location
DR61-UD5	NA	7702+07.90	7700+36.21	WALL	SEE WALL 07.59R DETAILS	0	0	0	168	0	0	Connect downstream to DR61-21.1. See drainage sheet DR61 for tie-in location
DR61-UD6	NA	7693+41.71	7698+84.63	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	0	0	38	0	0	See drainage sheet DR61 for tie-in location
DR61-UD7	NA	7707+49.62	7704+30.63	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	0	0	329	0	0	Connect downstream to DR61-24.1. See drainage sheet DR61 for tie-in location
DR61-UD8	NA	7700+10.95	7699+77.98	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	0	0	99	0	0	Connect downstream to DR61-42.1. See drainage sheet DR61 for tie-in location
DR61-UD9	NA	7708+66.15	7705.41+36	BARRIER	SEE SEGMENT 1B RS9 AND RS10 SHEETS	0	0	0	328	0	0	Connect downstream to DR61-5.1. See drainage sheet DR61 for tie-in location
DR61-UD10	NA	7707+72.99	7706+35.03	WALL	SEE WALL 07.65IR DETAILS	0	0	0	0	138	0	Connect downstream to DR61-5.1. See drainage sheet DR61 for tie-in location

Wood Environment & Infrastructure, Inc.
01/14/2022 Date
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ENTERED BY	M. CRATER
CHECKED BY	B. BETTAG
PROJ. ENGR.	J. LEFOTU
REGIONAL ADM.	L. HODGSON

REVISION	DATE	BY
REV 0 RELEASE FOR CONSTRUCTION	1/14/22	BB

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER XL5467
CONTRACT NO. C9242
LOCATION NO.

BRADLEY CHRISTOPHER BETTAG STATE OF WASHINGTON 20101135 REGISTERED PROFESSIONAL ENGINEER
1/14/22 DATE
P.E. STAMP BOX

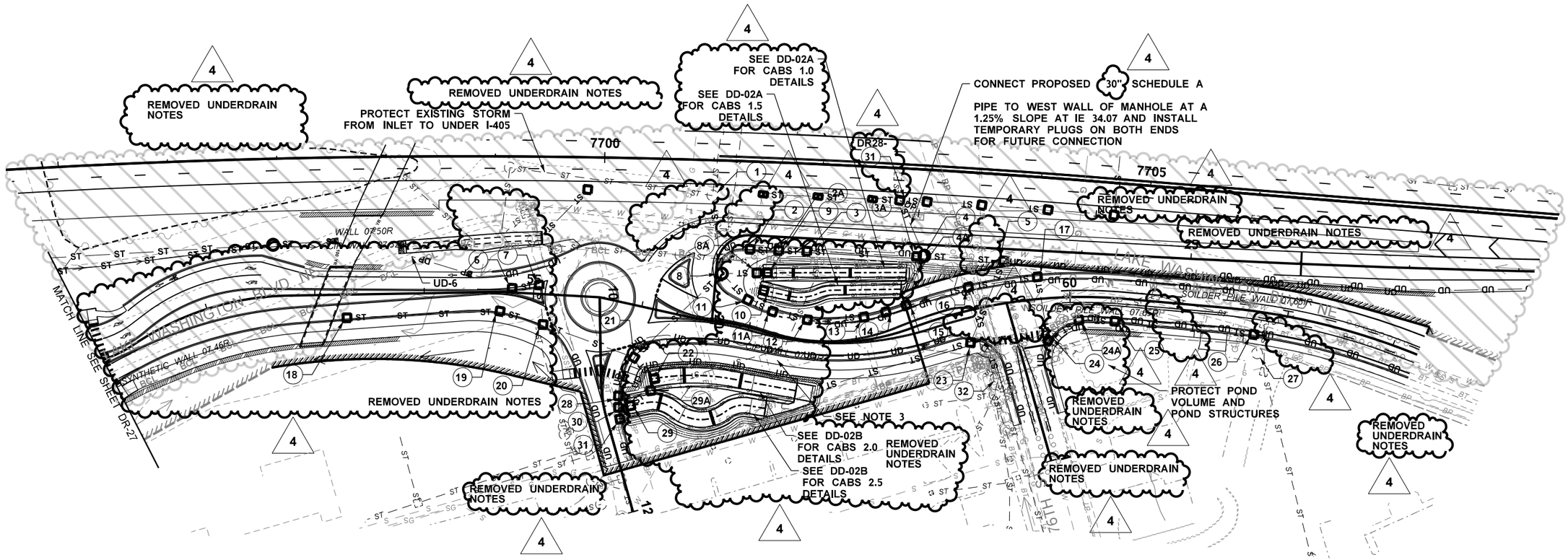
DATE
P.E. STAMP BOX

Washington State Department of Transportation
FLATIRON LANE
wood.

I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

UNDERDRAIN STRUCTURE NOTES

PLAN REF NO UD-5
SHEET
OF
SHEETS



LEGEND

UNDERDRAIN LINE - NEW	UD UD UD
STORM SEWER LINE - NEW	ST ST
STORM SEWER LINE - EXIST'G	ST ST ST
STORM CULVERT - EXISTING	
DITCH - EXISTING	
PROPOSED DITCH	
RIGHT OF WAY	
CATCH BASIN - NEW	
CATCH BASIN - EXISTING	
EXISTING STORM GRATE INLET	
PROPOSED STORM GRATE INLET	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROTECT IN PLACE	(PIP)
STRUCTURAL NOTE CODE	X
AREA NOT INCLUDED	

NOTES:

1. CLEANING OF ALL REUSED EXISTING INFRASTRUCTURE SHALL BE PERFORMED PRIOR TO CONSTRUCTION.
2. UPPER FISH PASSAGE IS NOT IN THIS PHASE OF CONSTRUCTION.
3. ENTIRE DRAINAGE SYSTEM IN DENNY'S PARKING LOT SHALL BE ABANDONED PER 7-05.3(2). EXISTING PIPES SHALL BE FILLED COMPLETELY WITH CLSM PER 2-09.3(1)E.
4. SEE SHEET DP-61, DP-61A, AND DP-61B FOR PROFILES.
5. CURB AND GUTTER UNDERDRAIN SHOWN OFFSET FOR CLARITY. SEE ROADWAY SECTIONS FOR PLACEMENT LOCATIONS.
6. UNDERDRAIN PIPE PER SECTION 7-01.3(2).
7. WALL UNDERDRAIN CLEANOUTS ARE REQUIRED UPSTREAM OF ALL BENDS GREATER THAN OR EQUAL TO 45 DEGREES. ONE CLEANOUT IS REQUIRED UPSTREAM OF DUAL 45-DEGREE BENDS USED TO GENERATE A 90-DEGREE BEND. NO UNDERDRAIN BENDS GREATER THAN 45 DEGREES ALLOWED.

0 50 100
SCALE IN FEET

Wood Environment & Infrastructure, Inc.
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DESIGNED BY	C. WEST	REV 3 NDC 035	6/18/21	BB		
ENTERED BY	M. CRATER	REV 2 FDC 019	2/3/21	BB		
CHECKED BY	B. BETTAG	REV 1 NDC 009	7/31/20	BB		
PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	7/3/20	BB		
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY		

REGION NO. 10 — STATE WASH — FED.AID PROJ.NO.
JOB NUMBER XL5467
CONTRACT NO. C9242 — LOCATION NO.

BRADLEY CHRISTOPHER BETTAG — STATE OF WASHINGTON — 20101135 — REGISTERED PROFESSIONAL ENGINEER
1/14/22 DATE
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DATE
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Washington State Department of Transportation
FLATIRON LANE
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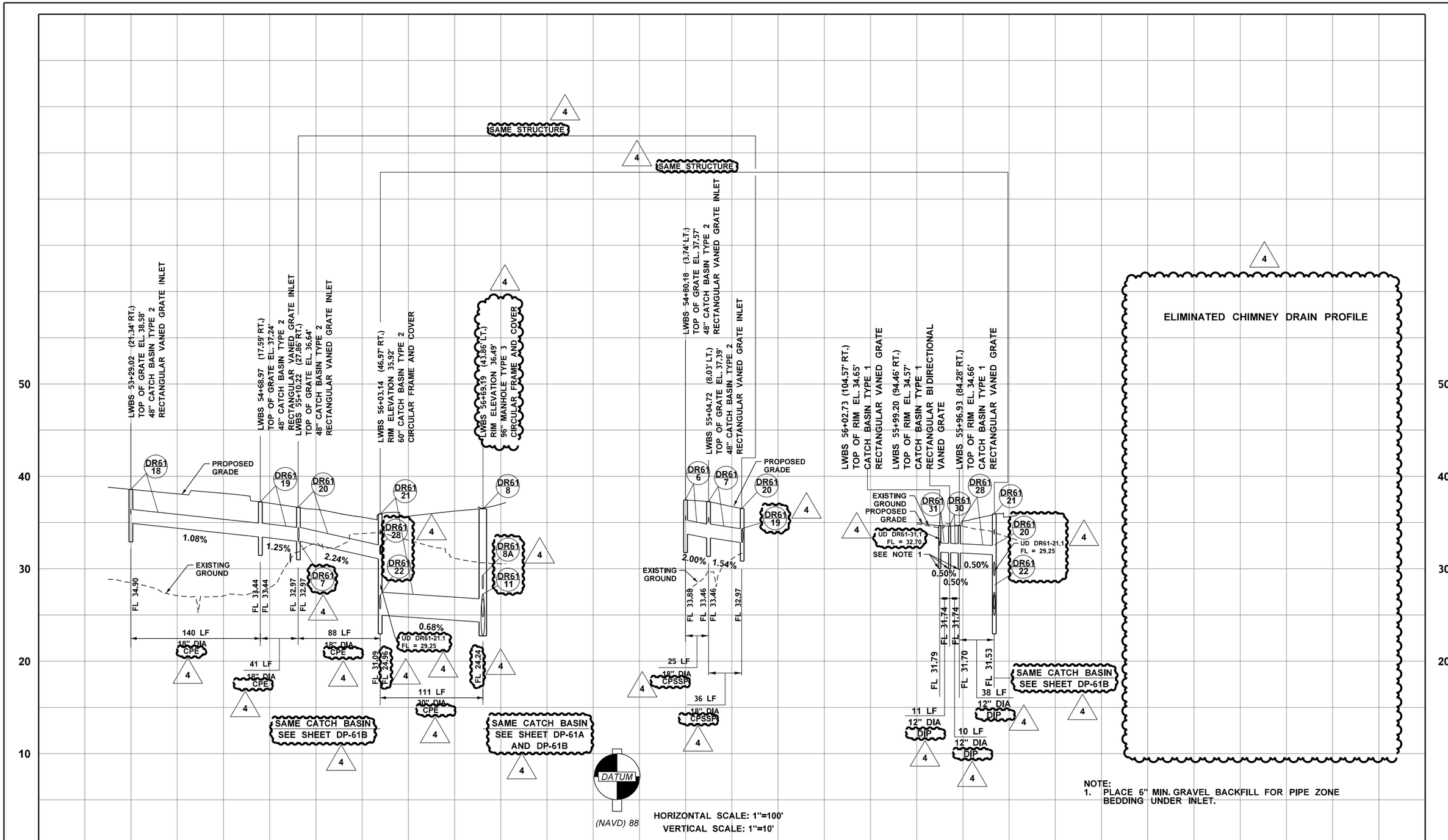
I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

DRAINAGE PLAN
LAKE WASHINGTON BLVD

PLAN REF NO DR-61
SHEET XX OF SHEETS



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DESIGNED BY	C. WEST	REV 3 NDC 035	6/18/21	BB			
ENTERED BY	M. CRATER	REV 2 FDC 019	12/22/20	BB			
CHECKED BY	B. BETTAG	REV 1 NDC 009	7/31/20	BB	CONTRACT NO. C9242		LOCATION NO.
PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	7/3/20	BB			
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY			

BRADLEY CHRISTOPHER BETTAG
STATE OF WASHINGTON
20101135
REGISTERED PROFESSIONAL ENGINEER
1/14/22
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

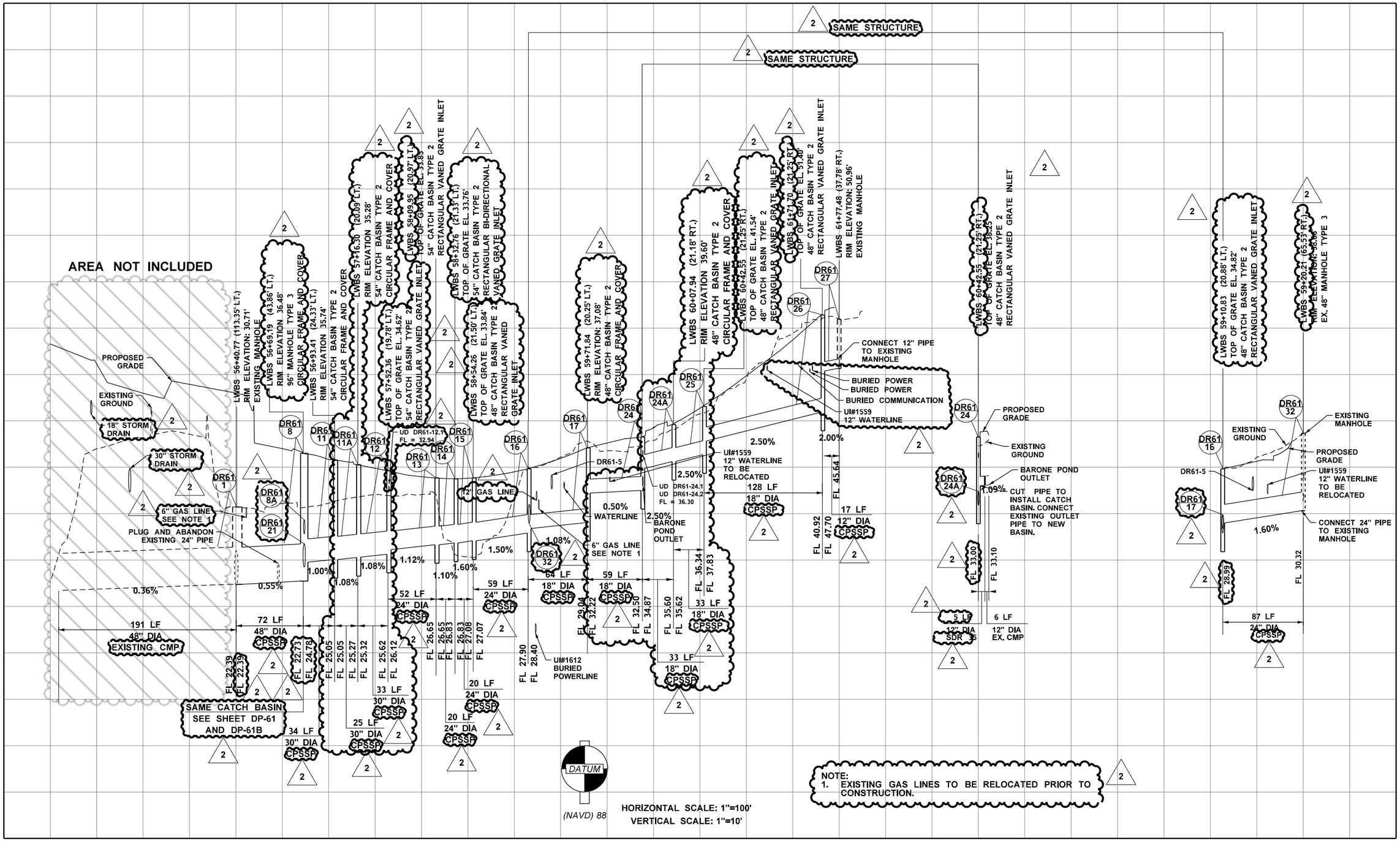
Washington State Department of Transportation
FLATIRON LANE
wood.

I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

DRAINAGE PROFILES
LAKE WASHINGTON BLVD

PLAN REF NO DP-61

SHEET XX OF SHEETS



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PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	7/3/20	BB			
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY			

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER XL5467
CONTRACT NO. C9242 | LOCATION NO.

BRADLEY CHRISTOPHER BETTAG STATE OF WASHINGTON 20101135 REGISTERED PROFESSIONAL ENGINEER
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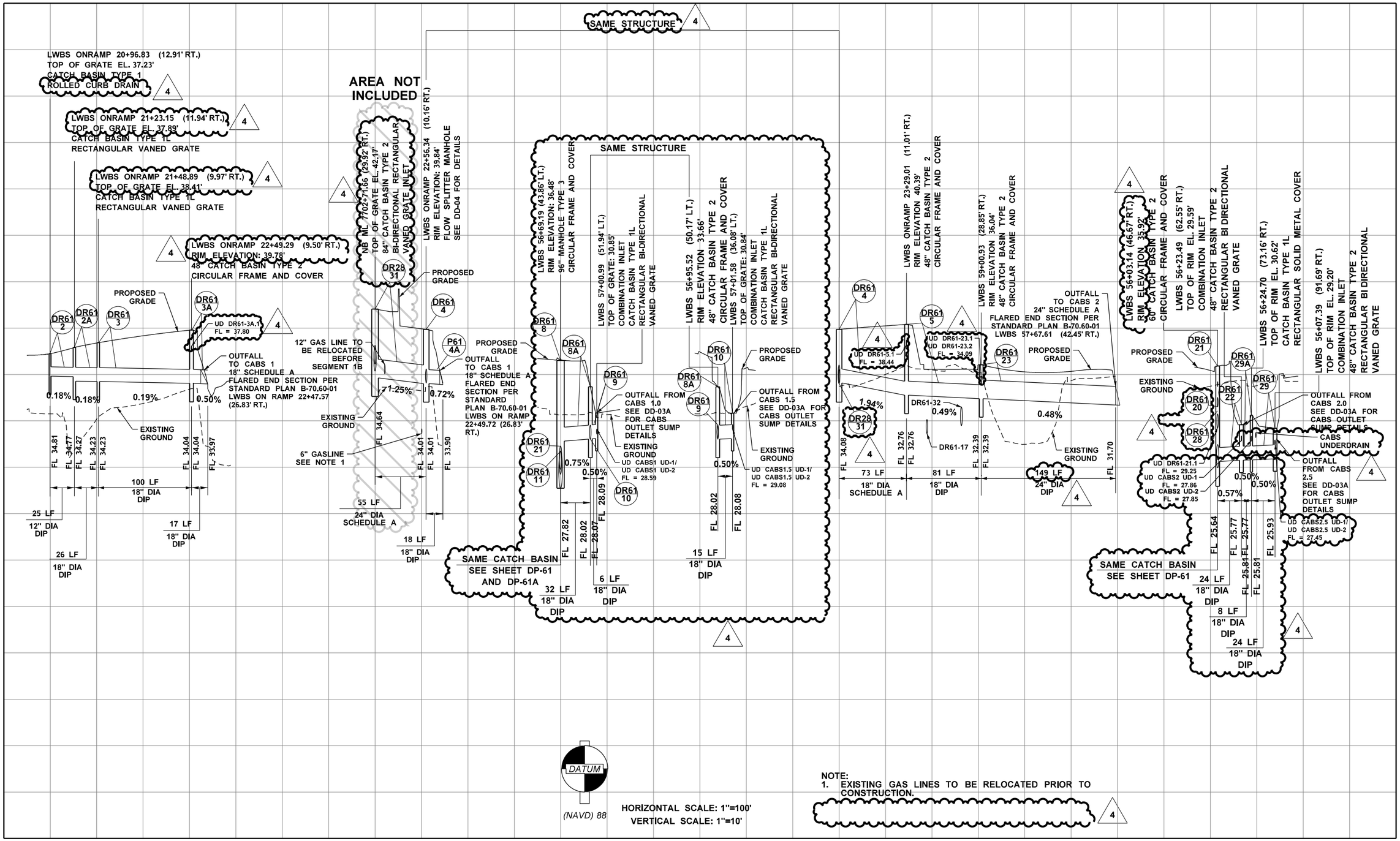
DRAINAGE PROFILES
LAKE WASHINGTON BLVD

PLAN REF NO DP-61A
SHEET XX OF SHEETS



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ENTERED BY	M. CRATER	REV 2 FDC 019	2/3/21	BB			
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PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	7/3/20	BB			
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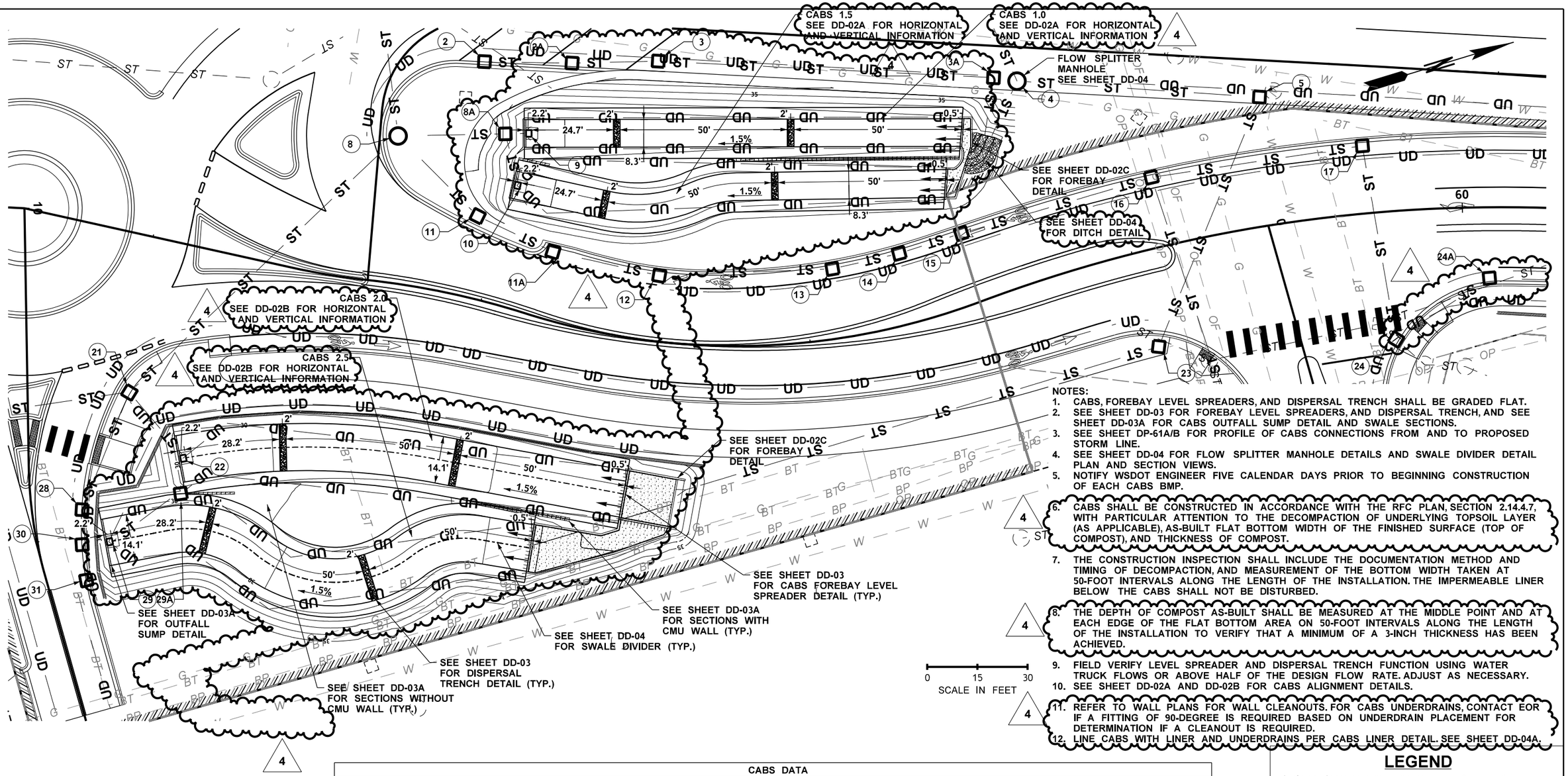
DRAINAGE PROFILES
LAKE WASHINGTON BLVD

PLAN REF NO DP-61B

SHEET XX OF SHEETS



0 15 30
SCALE IN FEET

NOTES:

1. CABS, FOREBAY LEVEL SPREADERS, AND DISPERSAL TRENCH SHALL BE GRADED FLAT.
2. SEE SHEET DD-03 FOR FOREBAY LEVEL SPREADERS, AND DISPERSAL TRENCH, AND SEE SHEET DD-03A FOR CABS OUTFALL SUMP DETAIL AND SWALE SECTIONS.
3. SEE SHEET DP-61A/B FOR PROFILE OF CABS CONNECTIONS FROM AND TO PROPOSED STORM LINE.
4. SEE SHEET DD-04 FOR FLOW SPLITTER MANHOLE DETAILS AND SWALE DIVIDER DETAIL PLAN AND SECTION VIEWS.
5. NOTIFY WSDOT ENGINEER FIVE CALENDAR DAYS PRIOR TO BEGINNING CONSTRUCTION OF EACH CABS BMP.
6. CABS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RFC PLAN, SECTION 2.14.4.7, WITH PARTICULAR ATTENTION TO THE DECOMPACTION OF UNDERLYING TOPSOIL LAYER (AS APPLICABLE), AS-BUILT FLAT BOTTOM WIDTH OF THE FINISHED SURFACE (TOP OF COMPOST), AND THICKNESS OF COMPOST.
7. THE CONSTRUCTION INSPECTION SHALL INCLUDE THE DOCUMENTATION METHOD AND TIMING OF DECOMPACTION, AND MEASUREMENT OF THE BOTTOM WIDTH TAKEN AT 50-FOOT INTERVALS ALONG THE LENGTH OF THE INSTALLATION. THE IMPERMEABLE LINER BELOW THE CABS SHALL NOT BE DISTURBED.
8. THE DEPTH OF COMPOST AS-BUILT SHALL BE MEASURED AT THE MIDDLE POINT AND AT EACH EDGE OF THE FLAT BOTTOM AREA ON 50-FOOT INTERVALS ALONG THE LENGTH OF THE INSTALLATION TO VERIFY THAT A MINIMUM OF A 3-INCH THICKNESS HAS BEEN ACHIEVED.
9. FIELD VERIFY LEVEL SPREADER AND DISPERSAL TRENCH FUNCTION USING WATER TRUCK FLOWS OR ABOVE HALF OF THE DESIGN FLOW RATE. ADJUST AS NECESSARY.
10. SEE SHEET DD-02A AND DD-02B FOR CABS ALIGNMENT DETAILS.
11. REFER TO WALL PLANS FOR WALL CLEANOUTS. FOR CABS UNDERDRAINS, CONTACT EOR IF A FITTING OF 90-DEGREE IS REQUIRED BASED ON UNDERDRAIN PLACEMENT FOR DETERMINATION IF A CLEANOUT IS REQUIRED.
12. LINE CABS WITH LINER AND UNDERDRAINS PER CABS LINER DETAIL. SEE SHEET DD-04A.

CABS DATA

CABS NUMBER	PERCENTAGE OF FLOW	Qwq (cfs)	NUMBER OF CABS	CABS INLET INVERT ELEVATION (FT)	b: BOTTOM WIDTH (FT)	Y (FT)	SIDE SLOPE (H:V)	TREAT-MENT LENGTH (FT)	TOTAL LENGTH (FT)	SLOPE	SWALE DEPTH W/ FB (FT)	DETAILS
#1	0.38	0.58	2	32.7	8.3	0.33	3.00	124.7	130.8	0.015	1.14	ONE LEVEL SPREADER AND TWO DISPERSAL TRENCHES; LEVEL SPREADER AT THE HEAD OF THE BIOFILTRATION SWALE AND DISPERSAL TRENCHES EVERY 50'.
#2	0.63	0.56	2	31.6	14.1	0.33	3.00	128.2	135.5	0.015	1.14	ONE LEVEL SPREADER AND TWO DISPERSAL TRENCHES; LEVEL SPREADER AT THE HEAD OF THE BIOFILTRATION SWALE AND THEN DISPERSAL TRENCHES EVERY 50'. NEEDS A SWALE DIVIDER IN MIDDLE OF CABS (SEE DD-04); USE NON-ERODIBLE WEATHER RESISTANT PLASTIC LUMBER.

LEGEND

STORM SEWER LINE - NEW — ST — ST —
STORM SEWER LINE - EXIST'G - ST — — ST — — ST -
DITCH - EXISTING
PROPOSED DITCH
RIGHT OF WAY
CATCH BASIN - NEW
CATCH BASIN - EXISTING
PROPOSED MANHOLE
EXISTING MANHOLE
STRUCTURAL NOTE CODE (X)
SWALE DIVIDER
DISPERSAL TRENCH

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DATE	1/11/2022
PLOTTED BY	mark.crater
DESIGNED BY	E. WOOD
ENTERED BY	M. CRATER
CHECKED BY	B. BETTAG
PROJ. ENGR.	J. LEFOTU
REGIONAL ADM.	L. HODGSON

REVISION	DATE	BY
REV 4 NDC 035.1 & RFI INCORPORATION	1/14/22	BB
REV 3 NDC 035	6/18/21	BB
REV 2 FDC 019	2/3/21	BB
REV 0 RELEASE FOR CONSTRUCTION	7/31/20	BB

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER XL5467
CONTRACT NO. C9242 | LOCATION NO.

BRADLEY CHRISTOPHER BETTAG, STATE OF WASHINGTON, 20101135, REGISTERED PROFESSIONAL ENGINEER
1/14/22 DATE
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FLATIRON LANE
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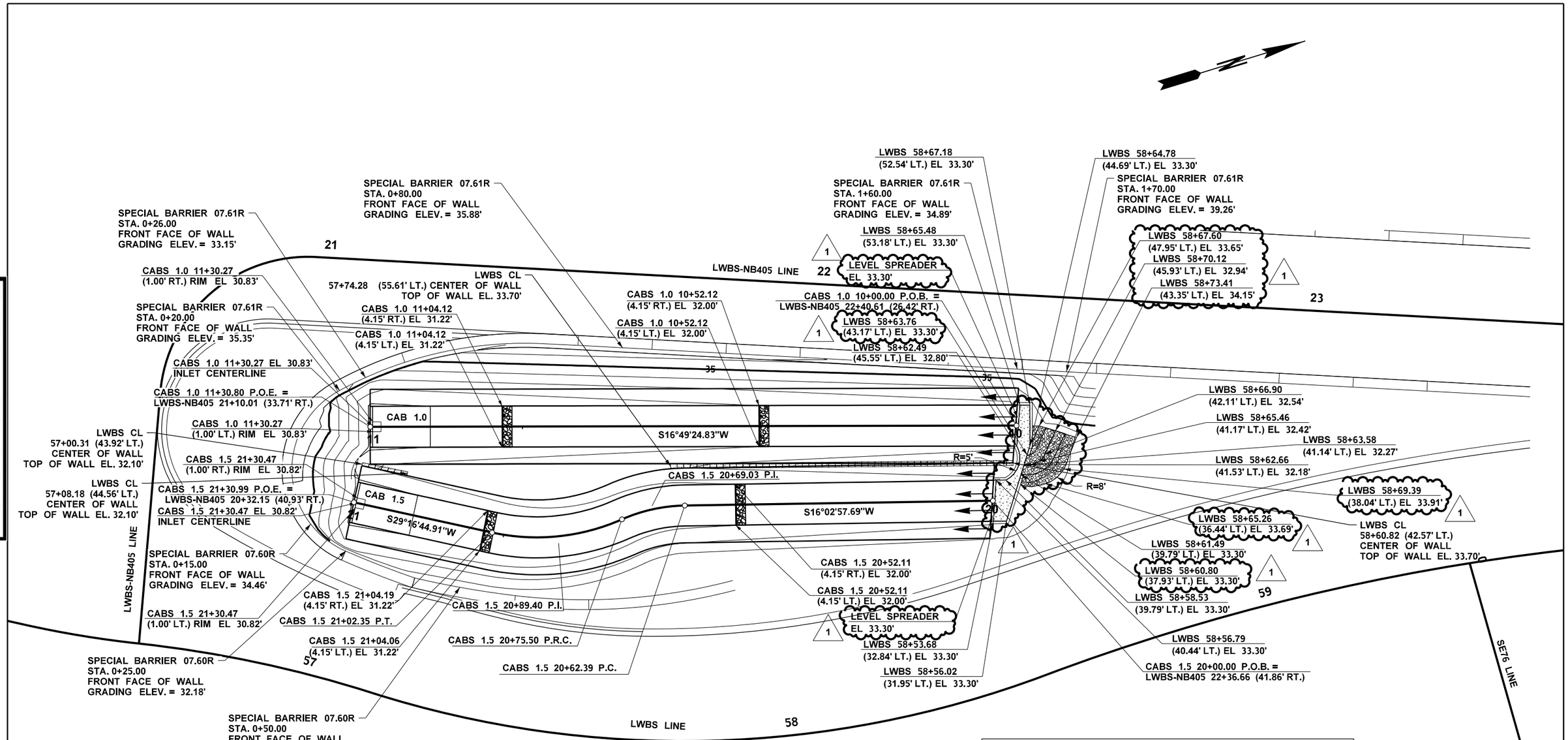
I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

DRAINAGE DETAILS
LAKE WASHINGTON BLVD

PLAN REF NO DD-02
SHEET XX OF SHEETS



CURVE DATA CAB 1.5				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
20+69.03	23°03'15.69" LT	32.60'	6.65'	13.12'
20+89.40	36°17'02.90" RT	42.40'	13.89'	26.85'

NOTES:
1. FOR TREATMENT DRAWINGS, THE ACRONYM "CABS" IS DEFINED AS COMPOST AMENDED BIOSWALE.
2. ALL POINTS TAKEN AT TOP FACE OF CURB
3. BOTTOM OF FOREBAY ELEVATION IS 31.97'

1

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PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	6/18/21	BB			
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY			

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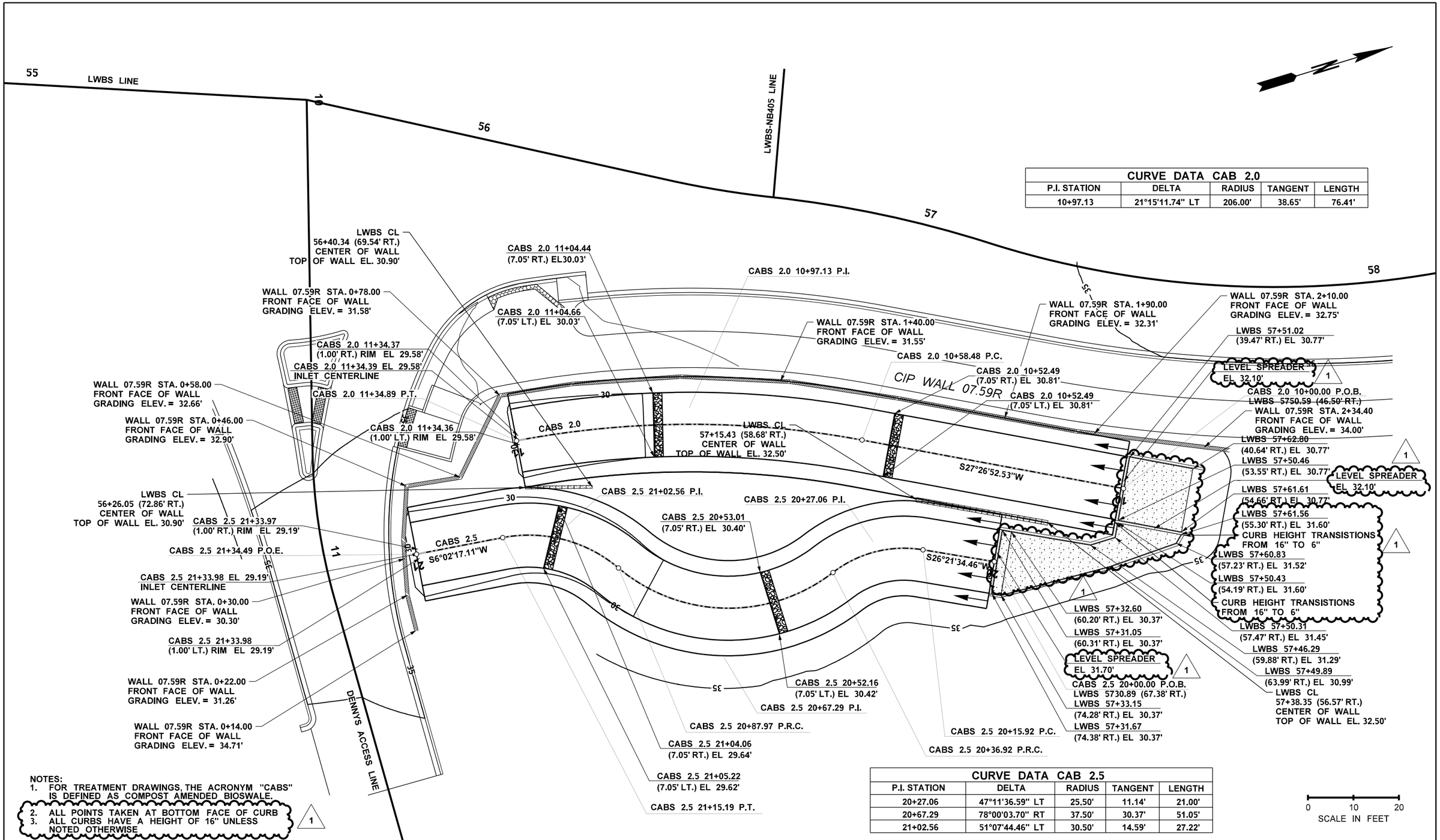
DRAINAGE DETAILS
LAKE WASHINGTON BLVD

PLAN REF NO
DD-02A

SHEET XX OF SHEETS



CURVE DATA CAB 2.0				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
10+97.13	21°15'11.74" LT	206.00'	38.65'	76.41'

CURVE DATA CAB 2.5				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
20+27.06	47°11'36.59" LT	25.50'	11.14'	21.00'
20+67.29	78°00'03.70" RT	37.50'	30.37'	51.05'
21+02.56	51°07'44.46" LT	30.50'	14.59'	27.22'

NOTES:
1. FOR TREATMENT DRAWINGS, THE ACRONYM "CABS" IS DEFINED AS COMPOST AMENDED BIOSWALE.
2. ALL POINTS TAKEN AT BOTTOM FACE OF CURB
3. ALL CURBS HAVE A HEIGHT OF 16" UNLESS NOTED OTHERWISE

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PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	6/18/21	BB		
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY		

REGION NO. 10 — STATE WASH — FED.AID PROJ.NO.
JOB NUMBER XL5467
CONTRACT NO. C9242 — LOCATION NO.

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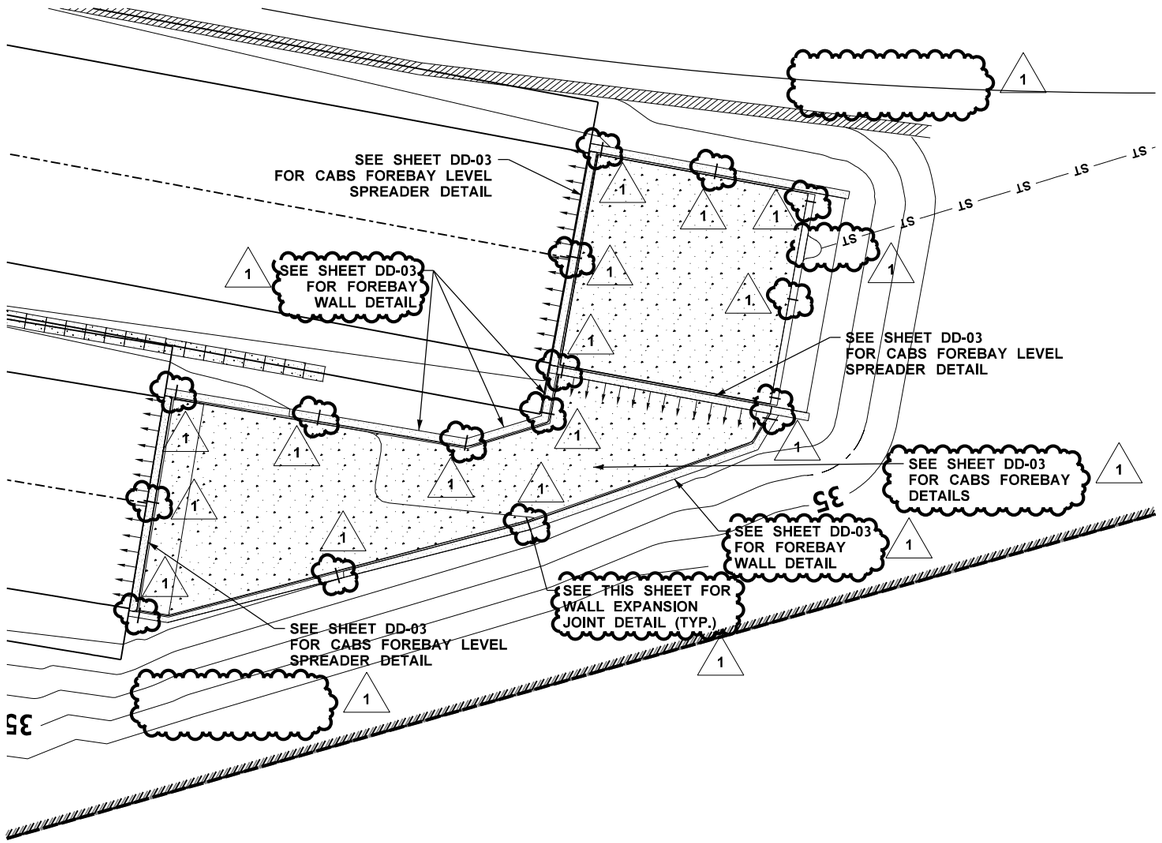
I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

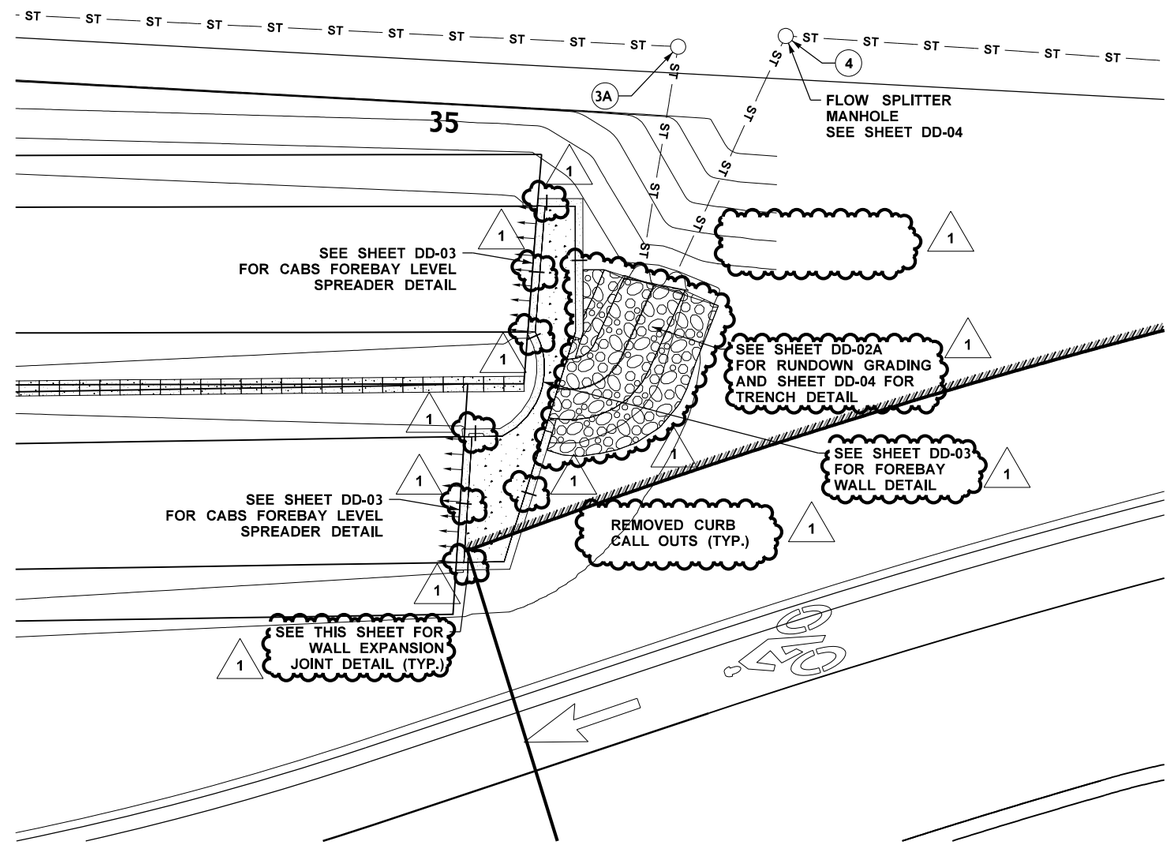
DRAINAGE DETAILS
LAKE WASHINGTON BLVD

PLAN REF NO DD-02B
SHEET XX OF SHEETS



CABS #2 FOREBAY DETAIL

NOT TO SCALE



CABS #1 FOREBAY DETAIL

NOT TO SCALE

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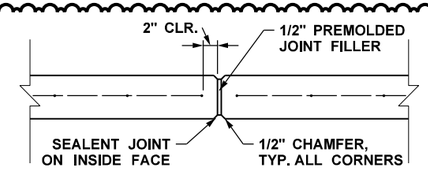
SCALE IN FEET



WALL EXPANSION JOINT DETAIL

NOT TO SCALE

LEGEND

STORM SEWER LINE - NEW	ST ST
STORM SEWER LINE - EXIST'G	ST ST ST
DITCH - EXISTING	
PROPOSED DITCH	
RIGHT OF WAY	
CATCH BASIN - NEW	
CATCH BASIN - EXISTING	
PROPOSED MANHOLE	
EXISTING MANHOLE	
STRUCTURAL NOTE CODE	X
SWALE DIVIDER	
FOREBAY LEVEL SPREADER	

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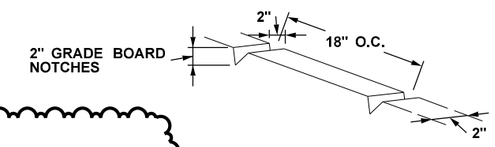
DRAINAGE DETAILS
LAKE WASHINGTON BLVD

PLAN REF NO DD-02C

SHEET XX OF SHEETS

GENERAL NOTES:

1. SUPPORT POST SPACING AS REQUIRED BY SOIL CONDITIONS TO ENSURE GRADE BOARD REMAINS LEVEL.
2. ADJUST SUPPORT POSTS UNTIL GRADE BOARD IS LEVEL AT EQUAL ELEVATION TO CABS BOTTOM AND ORIENTED PERPENDICULAR TO FLOW PATH.
3. GALVANIZED PRODUCTS SHALL NOT BE USED ON STORM DRAINAGE PIPES OR OTHER HYDRAULIC STRUCTURES, SUCH AS GRATES, CONTROL STRUCTURES, LADDER RUNGS, AND BIRDCAGES ON TOP OF OVERFLOW STRUCTURES.
4. CONSTRUCT LEVEL SPREADERS AND SWALE DIVIDERS OF PLASTIC BOARDS THAT WILL NOT LEACH CONTAMINANTS HARMFUL TO AQUATIC LIFE.
5. ALL ROCK SHALL BE CLEAN (≤5% FINES) 1.5' - .75' WASHED ROCK OR EQUIVALENT.
6. NATIVE GRASSES, ADAPTED GRASSES, OR OTHER VEGETATION WITH SIGNIFICANT ROOT MASS SHOULD BE USED.
7. FIELD VERIFY LEVEL SPREADER FUNCTION USING WATER TRUCK FLOWS AT OR ABOVE HALF OF THE DESIGN FLOW RATE.
8. LEVEL SPREADERS SHALL BE FIELD VERIFIED BY INSPECTOR.
9. EXTEND GEOMEMBRANE UNDER DISPERSAL TRENCH. SHOULD GRADE BOARDS PUNCTURE LINER, SEAL TEAR PER MANUFACTURER'S RECOMMENDATION. ENSURE CONNECTING SEAM OF GEOMEMBRANE IS AT LEAST 2' HORIZONTALLY AWAY FROM LIP OF DISPERSAL TRENCH



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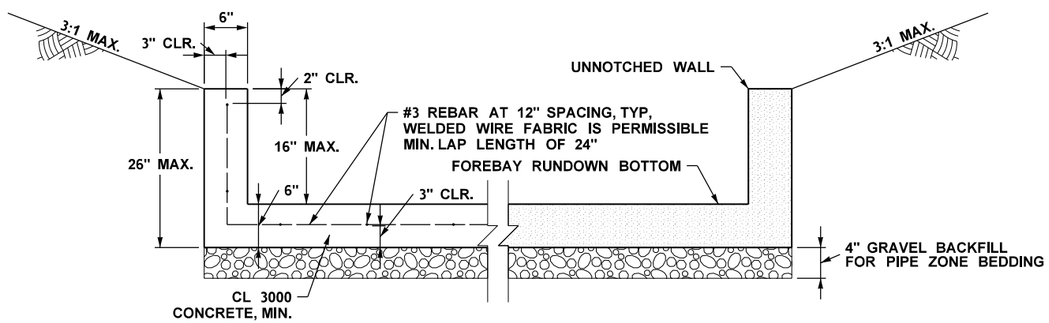
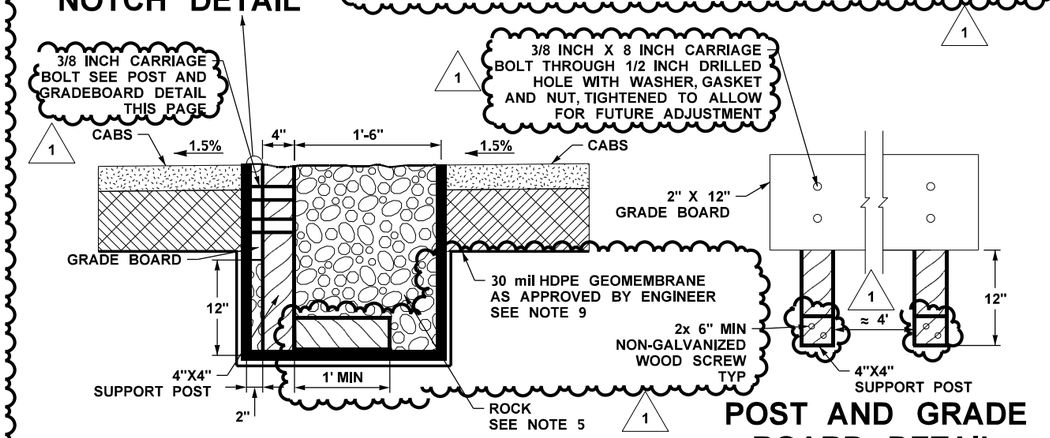


TYPICAL FOREBAY RUNDOWN CROSS SECTION

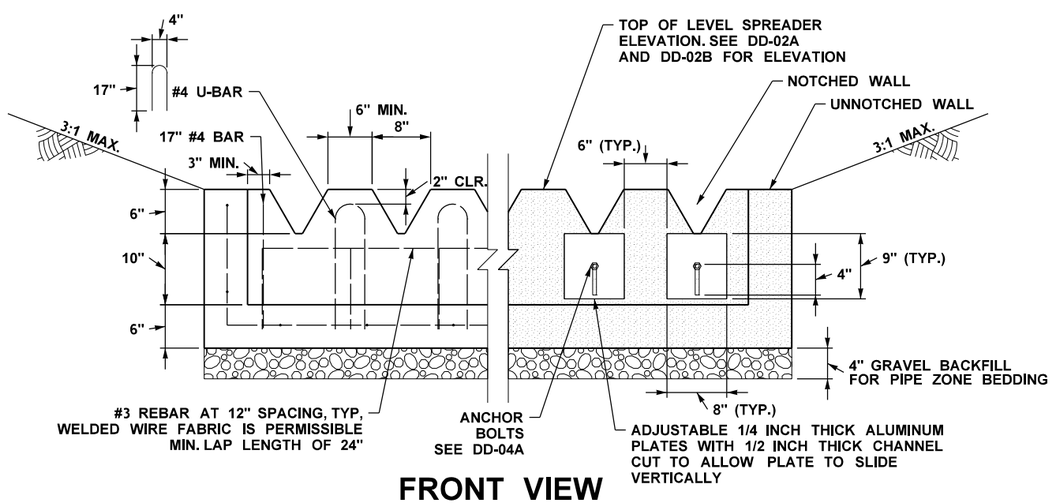


SIDE VIEW

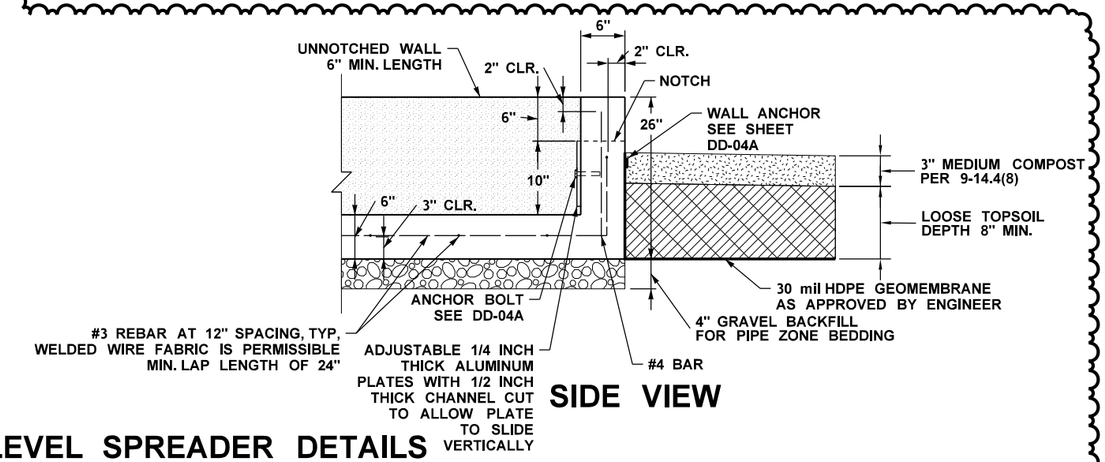
POST AND GRADE BOARD DETAIL

CABS 1 & 2 DISPERSAL TRENCH DETAIL

NOT TO SCALE
(SEE DD-02)



FRONT VIEW



SIDE VIEW

CABS 1 & 2 FOREBAY LEVEL SPREADER DETAILS

NOT TO SCALE
(SEE DD-02)

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DESIGNED BY	E. WOOD						
ENTERED BY	M. CRATER						
CHECKED BY	B. BETTAG	REV 1 NDC 035.1 & RFI INCORPORATION	1/14/22	BB	CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	6/18/21	BB	C9242		
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BRADLEY CHRISTOPHER BETTAG, STATE OF WASHINGTON, 20101135, REGISTERED PROFESSIONAL ENGINEER
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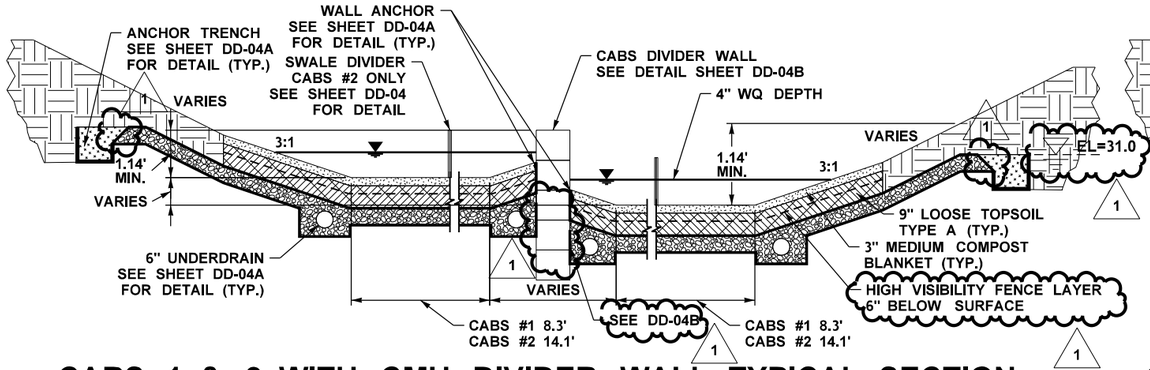
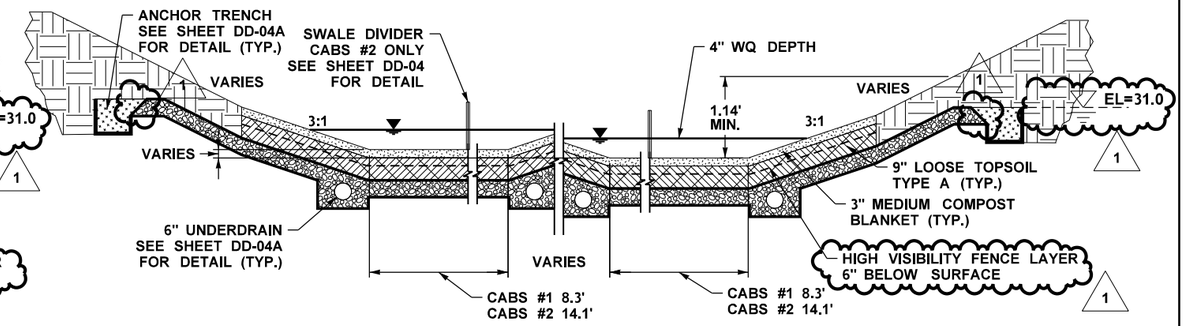


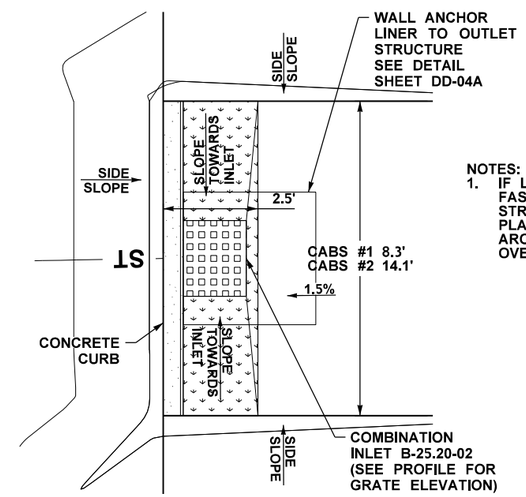
CABS 1 & 2 WITH CMU DIVIDER WALL TYPICAL SECTION

NOT TO SCALE



CABS 1 & 2 WITHOUT CMU DIVIDER WALL TYPICAL SECTION

NOT TO SCALE



NOTES:
1. IF LINER IS NOT ABLE TO BE FASTENED TO OUTLET STRUCTURE WITHOUT GAPS, PLACE 1" MIN OF BENTONITE AROUND EDGE OF STRUCTURE OVER LINER TO CREATE SEAL.

CABS OUTLET SUMP DETAIL

NOT TO SCALE

NOTES:
1. COMPOST AMENDED BIOFILTRATION SWALE BMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RFC PLAN WITH PARTICULAR ATTENTION TO THE DECOMPACTION OF UNDERLYING SOILS, AS-BUILT FLAT BOTTOM WIDTH OF THE FINISHED SURFACE (TOP OF COMPOST), AND THICKNESS OF COMPOST.
2. REPAIR ALL TRACKING AND RUTTING ONCE COMPOST HAS BEEN PLACED.
3. ENSURE COMPOST MATERIAL ARE AGED AND CURED ACCORDING TO SECTION 9-14.4(8) OF THE STANDARD SPECIFICATIONS.
4. TOPSOIL SHALL BE TOPSOIL TYPE B PER SECTION 9-14.1 OF THE STANDARD SPECIFICATIONS.
5. FIELD VERIFY LEVEL SPREADER FUNCTION USING WATER TRUCK FLOWS AT OR ABOVE HALF OF THE DESIGN FLOW RATE.
6. LEVEL SPREADERS SHALL BE FIELD VERIFIED BY INSPECTOR.
7. CABS SHALL BE STABILIZED BEFORE BEING BROUGHT ONLINE. DIVERT FLOWS AROUND CABS UNTIL CABS HAVE BEEN ESTABLISHED.

1

Wood Environment & Infrastructure, Inc.
01/14/2022
Date
DQAM Initials
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DATE	1/12/2022						
PLOTTED BY	brad.bettag				JOB NUMBER XL5467		
DESIGNED BY	E. WOOD						
ENTERED BY	M. CRATER						
CHECKED BY	B. BETTAG	REV 1 NDC 035.1 & RFI INCORPORATION	1/14/22	BB	CONTRACT NO. C9242		LOCATION NO.
PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	6/18/21	BB			
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY			

BRADLEY CHRISTOPHER BETTAG
STATE OF WASHINGTON
20101135
REGISTERED PROFESSIONAL ENGINEER
1/14/22
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
FLATIRON LANE
wood.

I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

DRAINAGE DETAILS
LAKE WASHINGTON BLVD

PLAN REF NO DD-03A

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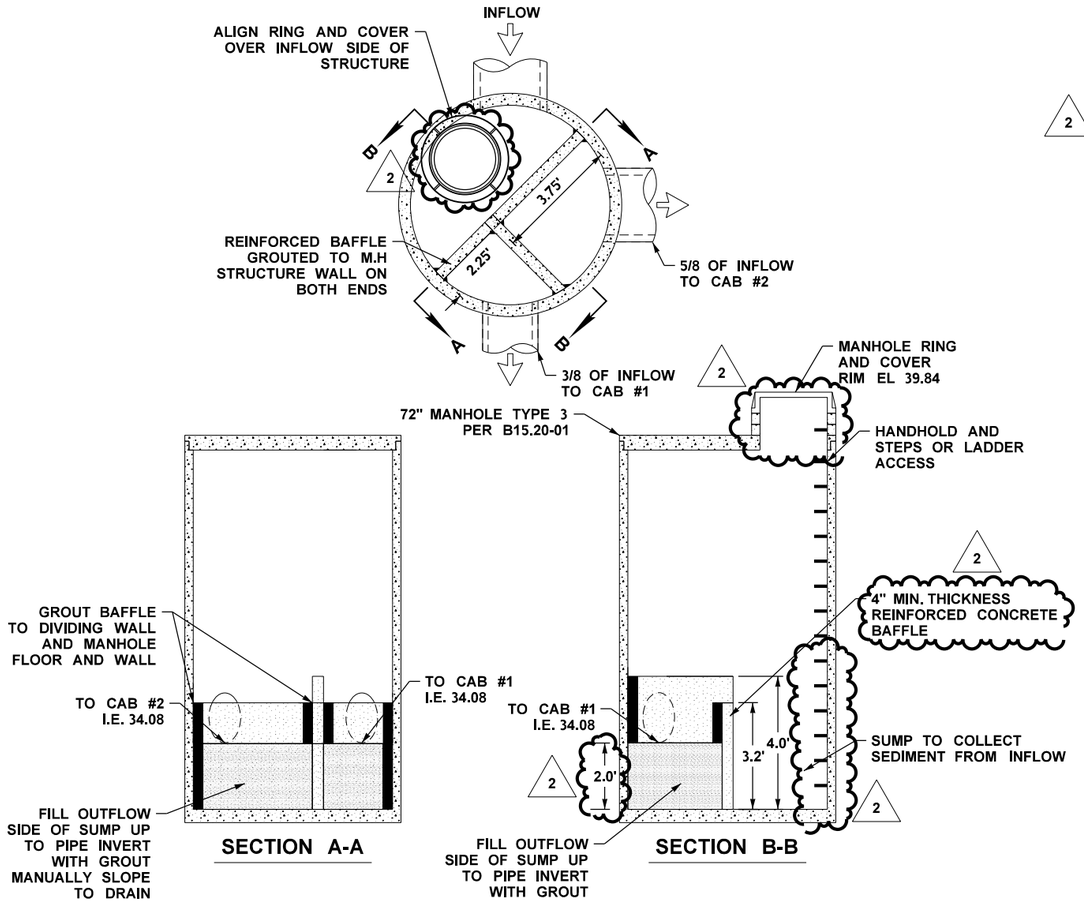
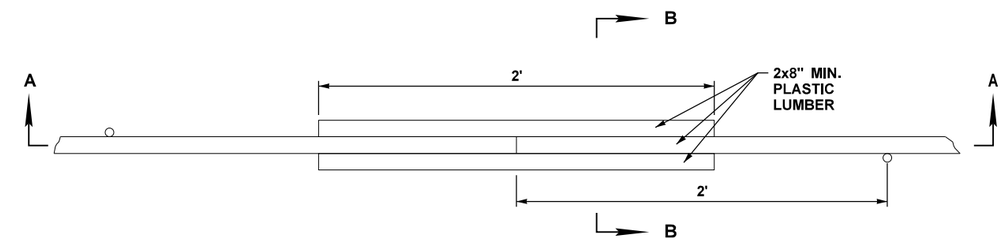


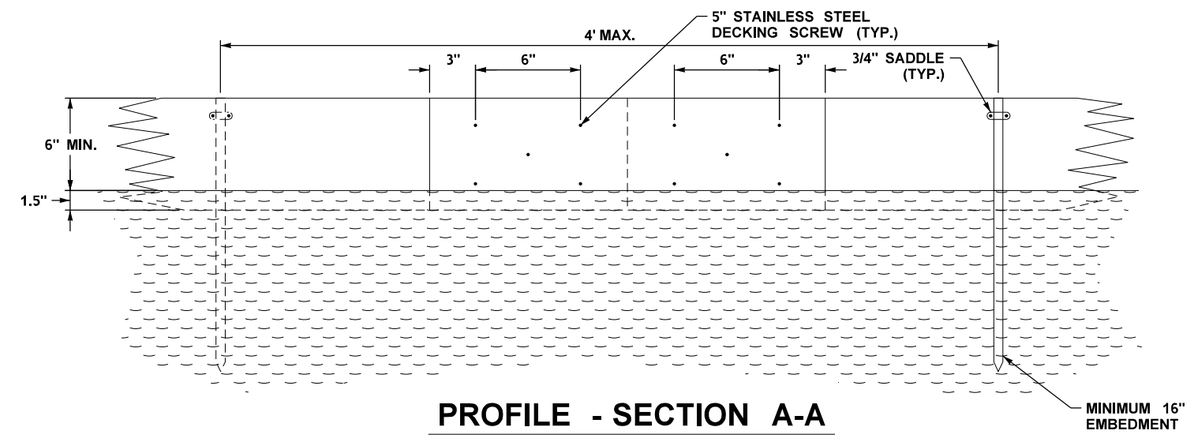
FLOW SPLITTER DETAIL

NOT TO SCALE



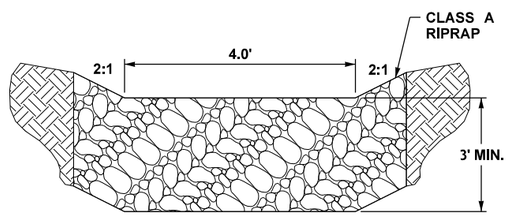
SWALE DIVIDER DETAIL (PLAN VIEW)

NOT TO SCALE



PROFILE - SECTION A-A

NOT TO SCALE



TRENCH DETAIL

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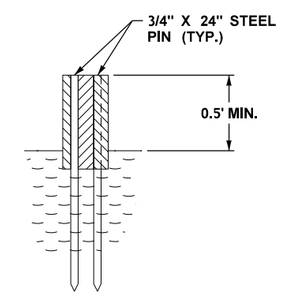

SECTION B-B

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DESIGNED BY	E. WOOD						
ENTERED BY	M. CRATER	REV 2 NDC 035.1 & RFI INCORPORATION	1/14/22	BB			
CHECKED BY	B. BETTAG	REV 1 NDC 035	6/18/21	BB	CONTRACT NO. C9242		LOCATION NO.
PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	7/3/20	BB			
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY			

BRADLEY CHRISTOPHER BETTAG — STATE OF WASHINGTON — 20101135 — REGISTERED PROFESSIONAL ENGINEER
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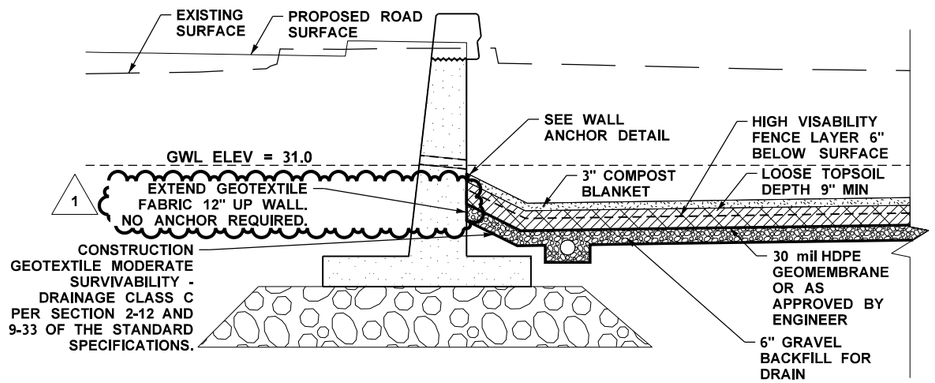
Washington State Department of Transportation
FLATIRON LANE
wood.

I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

DRAINAGE DETAILS
LAKE WASHINGTON BLVD

PLAN REF NO DD-04

SHEET XX OF SHEETS

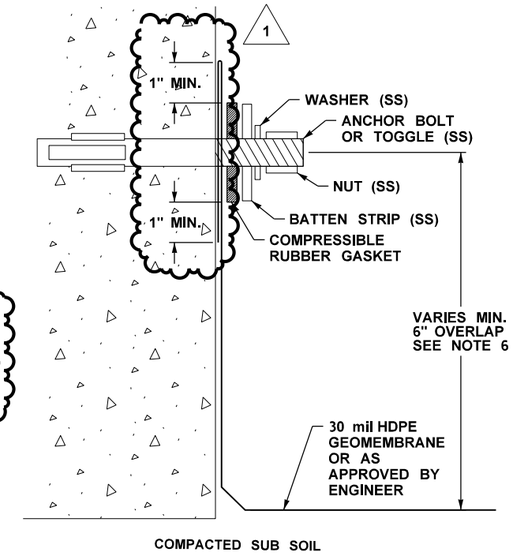


CABS LINER AT WALL DETAIL

NOT TO SCALE

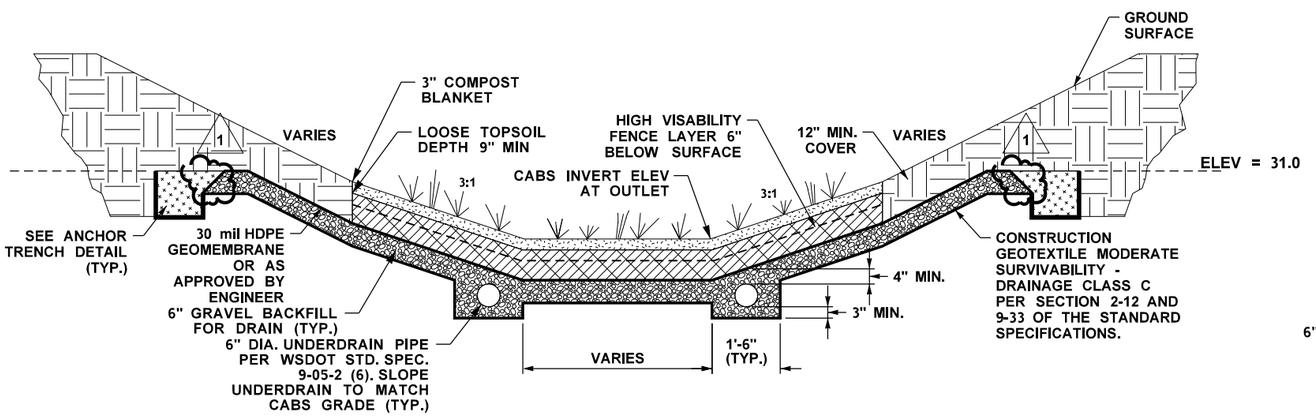
WALL ANCHOR NOTES:

1. WEDGE ANCHOR BOLTS SHALL BE 3/8 INCH X 4 1/2 INCH (MIN.) 316 STAINLESS STEEL.
2. NUTS AND WASHERS SHALL BE 316 STAINLESS STEEL.
3. BATTEN BAR SHALL BE 1/4 INCH X 2 INCH WIDE STAINLESS STEEL WITH ELONGATED HOLES SET FOR 6 INCH O.C.
4. CONCRETE EDGES SHALL BE CHAMFERED AND SMOOTH.
5. PROVIDE 45 DEGREE SUPPORT AT EDGE OF WALL.
6. LINER AND CONCRETE SYSTEM SHALL BE PROTECTED TO ELEVATION 31 FT.
7. NO GEOMEMBRANE REQUIRED FOR ANCHORS ON LEVEL SPREADERS SHOWN ON DD-03. LEVEL SPREADER ANCHORS SHOULD NOT BE OVERTIGHTENED TO ALLOW FOR FUTURE FIELD ADJUSTMENTS OF THE ADJUSTABLE PLATE.



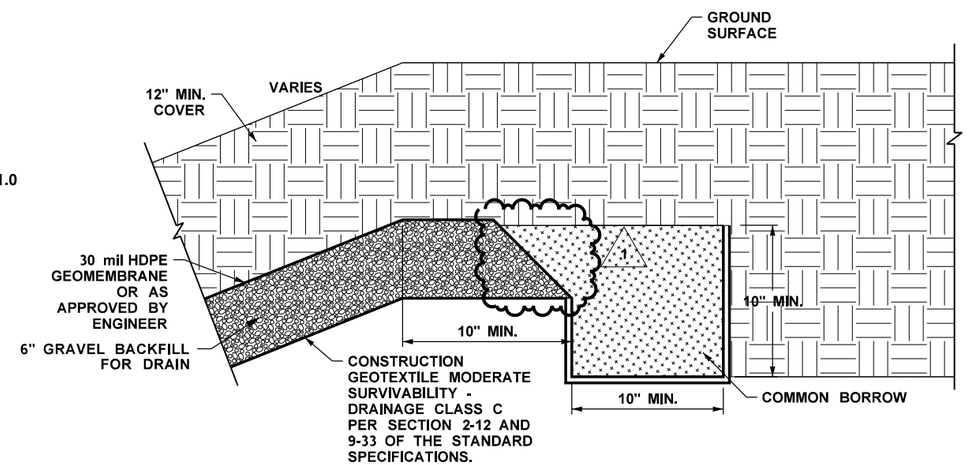
WALL ANCHOR DETAIL

NOT TO SCALE



CABS LINER DETAIL

NOT TO SCALE



ANCHOR TRENCH DETAIL

NOT TO SCALE

NOTES:

1. INSTALL LINER PER MANUFACTURER'S SPECIFICATIONS. LINER DETAILS SHALL BE SUBMITTED TO ENGINEER AND OWNER PRIOR TO INSTALLATION.

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DATE	1/12/2022						
PLOTTED BY	brad.bettag				JOB NUMBER XL5467		
DESIGNED BY	W. SIMMONS						
ENTERED BY	M. CRATER						
CHECKED BY	B. BETTAG	REV 1 NDC 035.1 & RFI INCORPORATION	1/14/22	BB	CONTRACT NO. C9242		LOCATION NO.
PROJ. ENGR.	J. LEFOTU	REV 0 RELEASE FOR CONSTRUCTION	6/18/21	BB			
REGIONAL ADM.	L. HODGSON	REVISION	DATE	BY			

BRADLEY CHRISTOPHER BETTAG — STATE OF WASHINGTON — 20101135 — REGISTERED PROFESSIONAL ENGINEER
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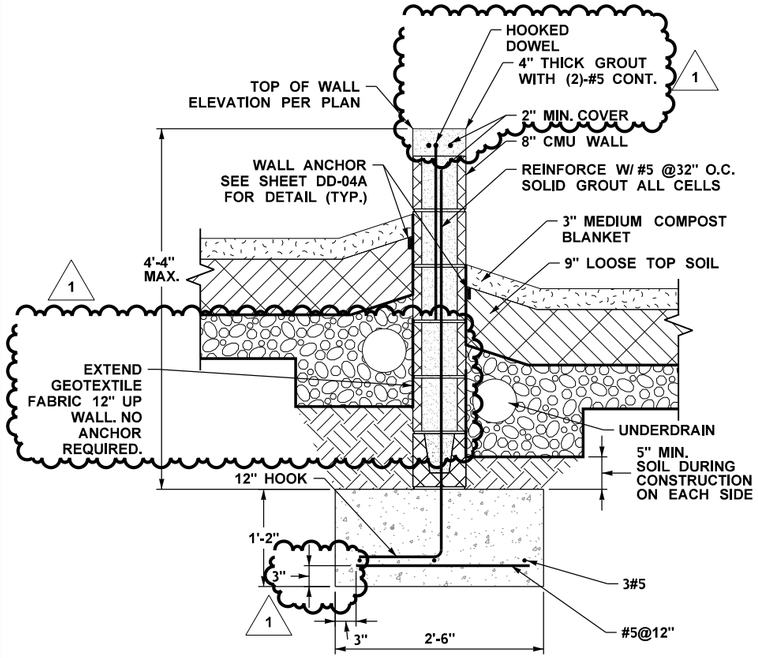
DRAINAGE DETAILS
LAKE WASHINGTON BLVD

PLAN REF NO DD-04A

SHEET XX OF SHEETS



CABS 1 AND 2 DIVIDER WALL

NOT TO SCALE

1

MASONRY NOTES:

1. CONCRETE MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO: ACI 530-13/ASCE 5-13, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES. ACI 530.1-13/ASCE 6-13, SPECIFICATIONS FOR MASONRY STRUCTURES.
2. PROVIDE NORMAL WEIGHT, HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90.
3. PROVIDE CONCRETE MASONRY WITH MINIMUM AVERAGE COMPRESSIVE STRENGTH, f'm = 2,000 PSI.
4. PROVIDE TYPE "S" MORTAR IN ACCORDANCE WITH ASTM C270, U.N.O. MORTAR BED JOINTS SHALL NOT EXCEED 3/8" THICKNESS.
5. PROVIDE GROUT FOR REINFORCED MASONRY IN ACCORDANCE WITH ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI UNLESS NOTED OTHERWISE.
6. PROVIDE HORIZONTAL JOINT REINFORCEMENT LADDER OR TRUSS TYPE COMPLYING WITH ASTM A82, NO. 9 GAUGE OR HEAVIER, ZINC COATED, PLACED 16 INCHES ON CENTER UNLESS NOTED OTHERWISE.
7. PROVIDE MINIMUM (2)#5 VERTICAL IN TWO ADJACENT CELLS GROUTED FULL HEIGHT, AT EACH SIDE OF WALL ENDS.
8. LAY MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE.
9. ALL CONCRETE MASONRY UNITS REINFORCING (VERT. & HORIZ.) SHALL BE LAPPED THUS:

BAR	LAP LENGTH	DOWEL HOOK LENGTH
#5	2'-0"	10"

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:

LOCATION	STRENGTH
ALL CONCRETE	4000 PSI

3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE CLASS "B" TENSION SPLICE UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH CLASS "B" TENSION SPLICES. UNLESS NOTED OTHERWISE LAP LENGTHS EXPRESSED IN NUMBER OF BAR DIAMETERS SHALL BE AS FOLLOWS. APPROVED MECHANICAL COUPLERS MAY BE USED IN LIEU OF PHYSICAL SPLICING:

BAR	LAP CLASS	BOTTOM BARS
#5	B	52 DIA.

4. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY AN INDEPENDENT TESTING LABORATORY, AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW A MINIMUM OF 15 DAYS PRIOR TO USE. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.
5. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
6. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
7. UNLESS NOTED OTHERWISE, SAMPLES FOR STRENGTH TESTS OF EACH MIX DESIGN OF CONCRETE PLACED EACH DAY SHALL BE TAKEN BY THE TESTING AGENCY NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 CUBIC YARDS OF CONCRETE, THEN EVERY 500 CUBIC YARDS THEREAFTER, NOR LESS THAN ONCE FOR EACH 4,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS. IF THIS FREQUENCY OF TESTING RESULTS IN FEWER THAN 5 SAMPLES FROM EACH CLASS OF CONCRETE USED, TEST 5 RANDOMLY SELECTED BATCHES. TEST ALL BATCHES IF LESS THAN 5 BATCHES ARE REQUIRED. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TEST IN ACCORDANCE WITH THE INDICATED STANDARD:
   - SLUMP: ASTM C143
   - AIR CONTENT: ASTM C231 OR C173
   - COMPRESSIVE STRENGTH: ASTM C39, WITH TWO CYLINDERS AT 7 DAYS, 2 CYLINDERS AT 14 DAYS, 2 CYLINDERS AT 28 DAYS, AND HOLD TWO SPECIMENS IN RESERVE.
8. HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS, AND CLEANED.
9. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; STAGGER SPLICES WHERE POSSIBLE; USE CLASS "B" TENSION SPLICE UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH CLASS "B" TENSION SPLICES.

FOUNDATION NOTES:

1. A GEOTECHNICAL ENGINEER REGISTERED IN THE PROJECT STATE SHALL INSPECT THE CONDITION AND ASSURE THE ADEQUACY OF ALL SUB GRADES, FILLS AND BACK FILLS BEFORE PLACEMENT OF FOUNDATIONS. THEY SHALL SUBMIT REPORTS TO THE OWNERS REPRESENTATIVE DESCRIBING THEIR FINDINGS, INCLUDING ANY NON-CONFORMING WORK. FOUNDATIONS ARE DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. BACK FILL UNIT WEIGHT WAS ASSUMED TO BE 110 LB/CUBIC FOOT.

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PLOTTED BY	mark.crater
DESIGNED BY	M. DANIEL
ENTERED BY	M. CRATER
CHECKED BY	B. BETTAG
PROJ. ENGR.	J. LEFOTU
REGIONAL ADM.	L. HODGSON

REVISION	DATE	BY
REV 1 NDC 035.1 & RFI INCORPORATION	1/14/22	BB
REV 0 RELEASE FOR CONSTRUCTION	6/18/21	BB

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL5467		
CONTRACT NO. C9242		LOCATION NO.

BRADLEY CHRISTOPHER BETTAG — STATE OF WASHINGTON — 20101135 — REGISTERED PROFESSIONAL ENGINEER
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I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

DRAINAGE DETAILS
TYPICAL CABS DETAILS

PLAN REF NO DD-04B

SHEET XX OF SHEETS