INDEX

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SHEET NO.	PLAN REFERENCE NO.	TITLE

PLAN REFERENCE NO.

SHEET OF SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

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PLOTTED BY	hardoug
DESIGNED BY	HARRIS. D
ENTERED BY	HARRIS. D
CHECKED BY	WILLIAMS. A
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

INDEX

Plot 1

PLAN REF. NO. IN1

SHEET 1 OF 48 SHEETS

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Spencer Beier Oct 20, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Julie Heilman Oct 20, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Lindsey Jungbluth Oct 20, 2022 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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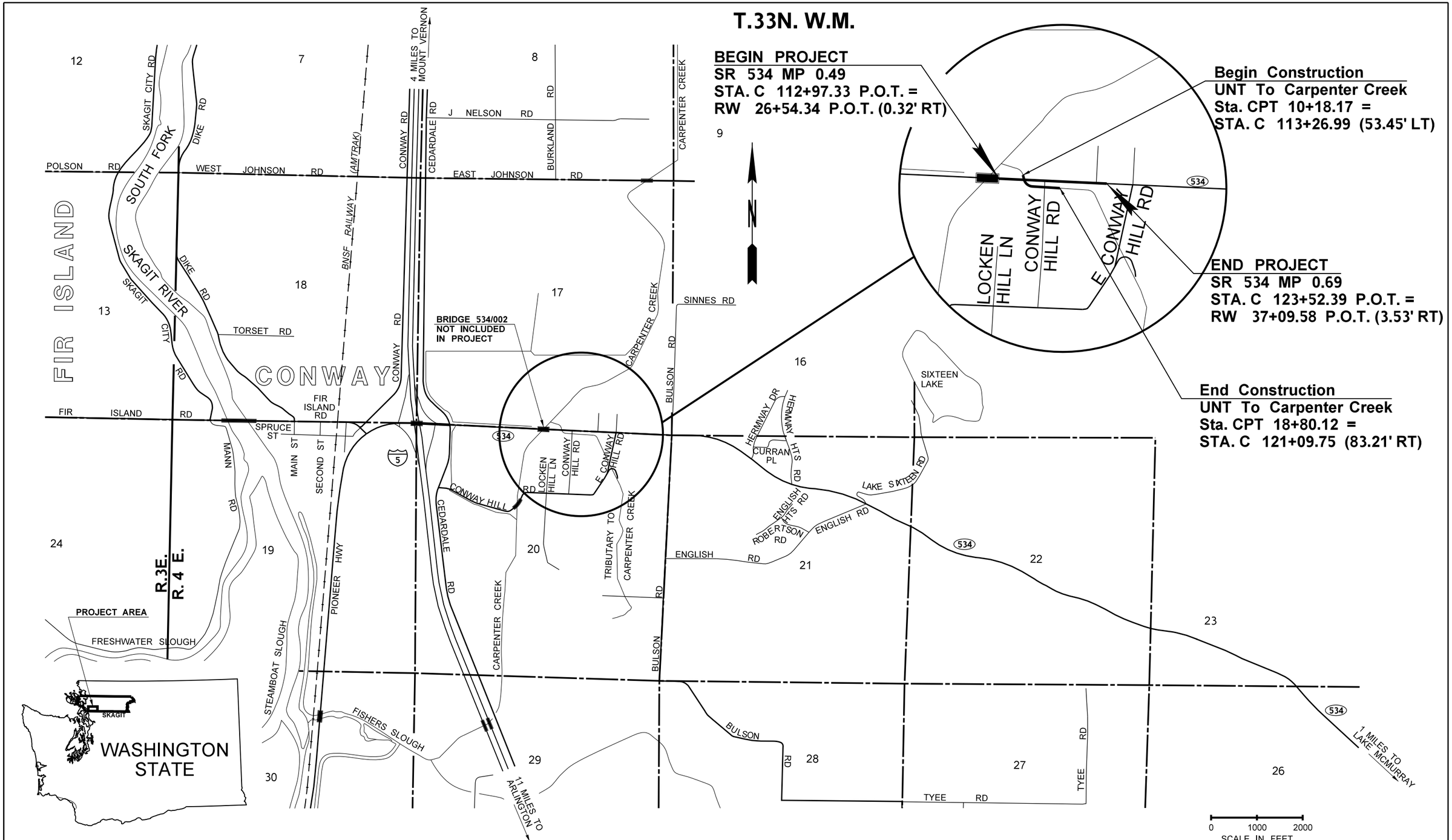
NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.



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PLOTTED BY	hardoug						
DESIGNED BY	J. MOE						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

VICINITY MAP

Plot 1

PLAN REF NO VM1

SHEET 3 OF 48 SHEETS

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 SR 534 MP 0.490 TO MP 0.690	GROUP 2 THIRD PARTY DAMAGES
						PREPARATION		
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	
2	0.63		0.63	0025	ACRE	CLEARING AND GRUBBING	0.63	
3	LUMP SUM		LUMP SUM	0050	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	
4	25.00		25.00	0170	L.F.	REMOVING GUARDRAIL	25.00	
5	1.00		1.00	0182	EACH	REMOVING GUARDRAIL ANCHOR	1.00	
						GRADING		
6	LUMP SUM		LUMP SUM		L.S.	EARTHWORK	L.S.	
						DRAINAGE		
7	100.00		100.00		TON	STREAMBED SAND	100.00	
8	1340.00		1340.00	1093	TON	STREAMBED SEDIMENT	1,340.00	
9	770.00		770.00	0904	TON	STREAMBED COBBLES 12 IN.	770.00	
10	50.00		50.00	0906	TON	STREAMBED BOULDER TYPE ONE	50.00	
11	10.00		10.00		TON	AQUITARD	10.00	
12	LUMP SUM		LUMP SUM		L.S.	STREAMBED TEST SECTION	L.S.	
13	6.00		6.00	1086	TON	QUARRY SPALLS	6.00	
14	1.00		1.00	1105	EACH	FLARED END SECTION 30 IN. DIAM.	1.00	
15	LUMP SUM		LUMP SUM	3075	L.S.	TEMPORARY STREAM DIVERSION	L.S.	
16	5000.00		5000.00	3076	DOL	FISH EXCLUSION	5,000.00	
17	4.00		4.00		EACH	WOODY MATERIAL - LOG WITHOUT ROOTWAD DBH 1.5 FT.	4.00	
18	19.00		19.00		EACH	WOODY MATERIAL - LOG WITH ROOTWAD DBH 2.0 FT.	19.00	
19	40.00		40.00		EACH	WOODY MATERIAL - LOG WITH ROOTWAD DBH 1.5 FT.	40.00	
20	10.00		10.00		C.Y.	SLASH	10.00	
21	5000.00		5000.00		DOL	FORCE ACCOUNT - ADDITIONAL STREAMBED GRADING	5,000.00	
						STRUCTURE		
22	LUMP SUM		LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A FOR CDBS NO. 1	L.S.	
23	-1.00		-1.00	4219	DOL	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT	-1.00	
24	LUMP SUM		LUMP SUM	4335	L.S.	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1	L.S.	
25	55.00		55.00	4455	S.Y.	WATERPROOF MEMBRANE BR. NO. CDBS NO.1	55.00	
						SURFACING		
26	107.00		107.00	5100	TON	CRUSHED SURFACING BASE COURSE	107.00	
						HOT MIX ASPHALT		
27	140.00		140.00	5711	S.Y.	PLANING BITUMINOUS PAVEMENT	140.00	
28	194.00		194.00	5767	TON	HMA CL. 1/2 IN. PG 58H-22	194.00	
29	1746.00		1746.00	5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT	1,746.00	
30	2910.00		2910.00	5835	DOL	COMPACTION PRICE ADJUSTMENT	2,910.00	
31	965.00		965.00	5837	DOL	ASPHALT COST PRICE ADJUSTMENT	965.00	
						EROSION CONTROL AND ROADSIDE PLANTING		
32	3025.00		3025.00		L.F.	COMPOST SOCK FOR SOIL STABILIZATION	3,025.00	
33	63.00		63.00		L.F.	PLANTED COMPOST SOCK	63.00	
34	LUMP SUM		LUMP SUM	6488	L.S.	EROSION CONTROL AND WATER POLLUTION PREVENTION	L.S.	
35	1462.00		1462.00	6431	S.Y.	SEEDING, FERTILIZING AND MULCHING	1,462.00	

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	534	293500	**	STATE
2	534	293500	**	STATE

DATE	REVISION	BY

REGION	STATE	FEDERAL AID PROJECT. NO.
10	WA	

JOB NUMBER 22A021/2

CONTRACT NO 000000

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SUMMARY OF QUANTITIES

SQ1

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 SR 534 MP 0.490 TO MP 0.690	GROUP 2 THIRD PARTY DAMAGES
36	35.00		35.00	6550	EACH	PLANT SELECTION SMALL FRUITED BULRUSH (3-4 IN. PLUG)	35.00	
37	35.00		35.00	6550	EACH	PLANT SELECTION SLOUGH SEDGE (3-4 IN. PLUG)	35.00	
38	35.00		35.00	6550	EACH	PLANT SELECTION SALMONBERRY (NO. 1 CONT.)	35.00	
39	35.00		35.00	6550	EACH	PLANT SELECTION PACIFIC NINEBARK (NO. 1 CONT.)	35.00	
40	35.00		35.00	6550	EACH	PLANT SELECTION DOUGLAS SPIREA (NO. 1 CONT.)	35.00	
41	868.00		868.00	6558	L.F.	BRUSH LAYER	868.00	
42	632.00		632.00	6553	L.F.	FASCINES	632.00	
43	1462.00		1462.00	6483	S.Y.	FINE COMPOST	1,462.00	
44	274.00		274.00	6530	S.Y.	SOIL AMENDMENT	274.00	
45	268.00		268.00	6580	S.Y.	BARK OR WOOD CHIP MULCH	268.00	
46	6.00		6.00	6578	EACH	BARK OR WOOD CHIP MULCH RINGS	6.00	
47	140.00		140.00	6630	L.F.	HIGH VISIBILITY FENCE	140.00	
48	910.00		910.00	6635	L.F.	HIGH VISIBILITY SILT FENCE	910.00	
49	LUMP SUM		LUMP SUM	6404	L.S.	ENVIRONMENTAL COMPLIANCE LEAD	L.S.	
50	268.00		268.00		S.Y.	SOIL DECOMPACTION	268.00	
51	158.00		158.00		L.F.	TRENCH PLANTINGS	158.00	
52	10000.00		10000.00		DOL	FORCE ACCOUNT SELECTIVE CLEARING AND PRUNING	10,000.00	
						TRAFFIC		
53	25.00		25.00	6712	L.F.	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	25.00	
54	75.00		75.00	6757	L.F.	BEAM GUARDRAIL TYPE 31	75.00	
55	4.00		4.00	6760	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 24	4.00	
56	3.00		3.00	6719	EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	3.00	
57	430.00		430.00	6806	L.F.	PAINT LINE	430.00	
58	2.00		2.00	6881	EACH	PLASTIC DRAINAGE MARKING	2.00	
59	0.03		0.03	6884	HUND	RAISED PAVEMENT MARKER TYPE 2	0.03	
60	150.00		150.00	6895	L.F.	TEMPORARY PAVEMENT MARKING-SHORT DURATION	150.00	
61	LUMP SUM		LUMP SUM	6971	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	
62	72.00		72.00	6982	S.F.	CONSTRUCTION SIGNS CLASS A	72.00	
						OTHER ITEMS		
63	LUMP SUM		LUMP SUM	7003	L.S.	TYPE B PROGRESS SCHEDULE	L.S.	
64	1.00		1.00	7029	EACH	PLUGGING EXISTING PIPE	1.00	
65	LUMP SUM		LUMP SUM	7037	L.S.	STRUCTURE SURVEYING	L.S.	
66	LUMP SUM		LUMP SUM	7038	L.S.	ROADWAY SURVEYING	L.S.	
67	1000.00		1000.00	7480	DOL	ROADSIDE CLEANUP	1,000.00	
68	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE		5.00
69	-1.00		-1.00	7728	DOL	MINOR CHANGE	-1.00	
70	-1.00		-1.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT	-1.00	
71	LUMP SUM		LUMP SUM	7736	L.S.	SPCC PLAN	L.S.	
72	150.00		150.00		S.Y.	GEOMEMBRANE LINER	150.00	
73	LUMP SUM		LUMP SUM		L.S.	DEWATERING PLAN	L.S.	
74	LUMP SUM		LUMP SUM		L.S.	TEMPORARY DEWATERING SYSTEM	L.S.	

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	534	293500	**	STATE
2	534	293500	**	STATE

DATE	REVISION	BY

REGION	STATE	FEDERAL AID PROJECT. NO.
10	WA	

JOB NUMBER 22A021/2

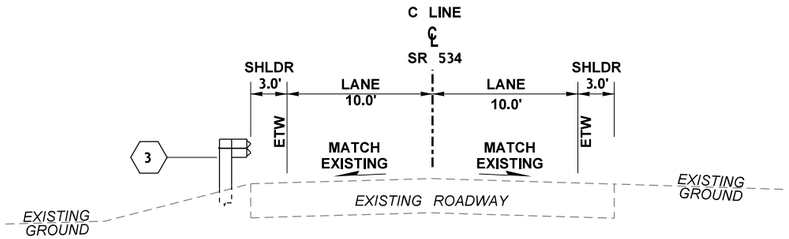
CONTRACT NO 000000

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

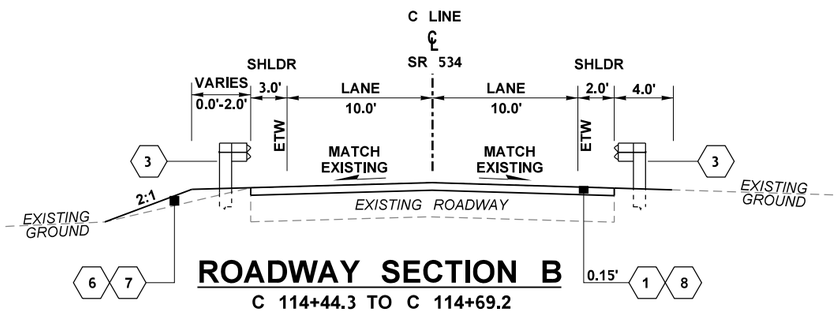
SUMMARY OF QUANTITIES

SQ2



ROADWAY SECTION A

C 114+33.4 TO C 114+44.3
NOT TO SCALE



ROADWAY SECTION B

C 114+44.3 TO C 114+69.2
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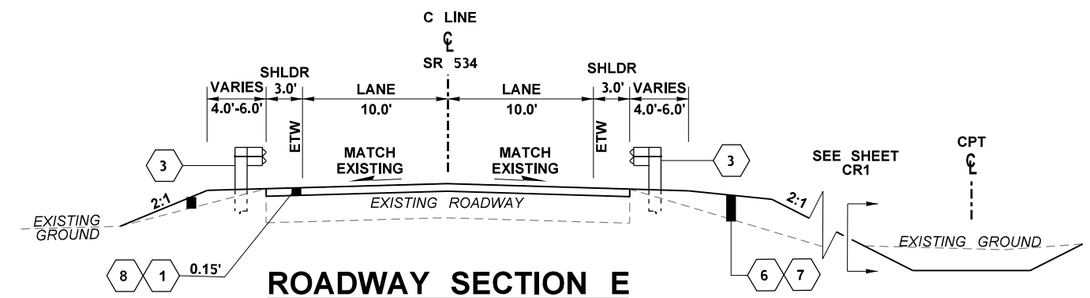

ROADWAY SECTION E

C 115+64.6 TO C 115+87.0
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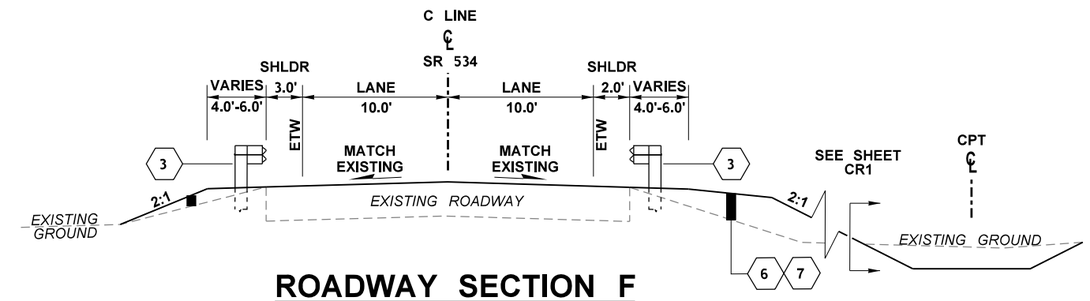


ROADWAY SECTION F

C 115+87.0 TO C 116+09.0
NOT TO SCALE

ROADWAY SECTION C & D

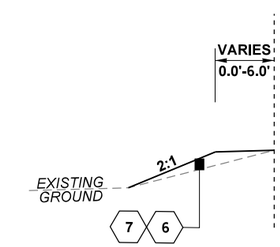
SEE SHEET RS2 - RS3

GENERAL NOTES

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS. NO DEPTHS SHALL EXCEED STANDARD SPECIFICATION LIMITS.
2. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
3. MATCH EXISTING ROAD GRADES.
4. CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 IS SKEWED. ROADWAY SECTION D, STATIONING BASED ON CULVERT LOCATION AT C LINE STATION C 115+14.07.
5. SEE SHEET PV1 FOR SHOULDER AND GUARDRAIL PLACEMENT AND EXTENTS.
6. SEE SHEET BC1 - BC4 FOR WALL AND BURIED STRUCTURE DETAILS.
7. INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS.
8. PRECAST BRIDGE APPROACH SLAB SHALL BE CONTRACTOR DESIGNED IN ACCORDANCE WITH STANDARD PLAN A-40.50, BUT CAN BE REDUCED TO A MINIMUM 20' LENGTH ON THE SHORTEST END AND SHALL BE INSTALLED IN PRECAST SECTIONS. INCLUDED IN THE LUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1".
9. ETW = EDGE OF TRAVELED WAY.

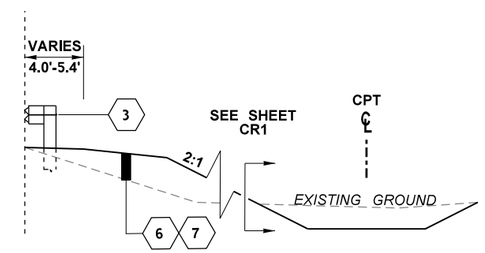
MATERIAL LEGEND

1	HMA CL. 1/2 IN. PG 58H-22
2	CRUSHED SURFACING BASE COURSE
3	BEAM GUARDRAIL TYPE 31
4	ROADWAY EXCAVATION INCL. HAUL (SEE NOTE 7)
5	STRUCTURE EXCAVATION CLASS A INCL. HAUL (SEE NOTE 7)
6	EMBANKMENT COMPACTION (SEE NOTE 7)
7	GRAVEL BORROW INCL. HAUL (SEE NOTE 7)
8	PLANING BITUMINOUS PAVEMENT
9	PRECAST BRIDGE APPROACH SLAB (CONTRACTOR DESIGNED)
10	LIGHTWEIGHT VOLCANIC BORROW INCL. HAUL (SEE NOTE 7)



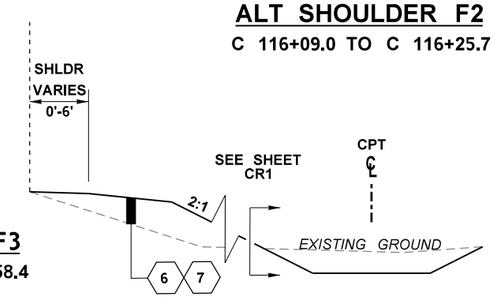
ALT SHOULDER F1

C 116+09.0 TO C 116+57.0



ALT SHOULDER F2

C 116+09.0 TO C 116+25.7



ALT SHOULDER F3

C 116+25.7 TO C 116+58.4

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DATE	10/5/2022			
PLOTTED BY	hardoug			
DESIGNED BY	D. HARRIS			
ENTERED BY	R. MCEWAN			
CHECKED BY	A. WILLIAMS			
PROJ. ENGR.	S. BEIER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

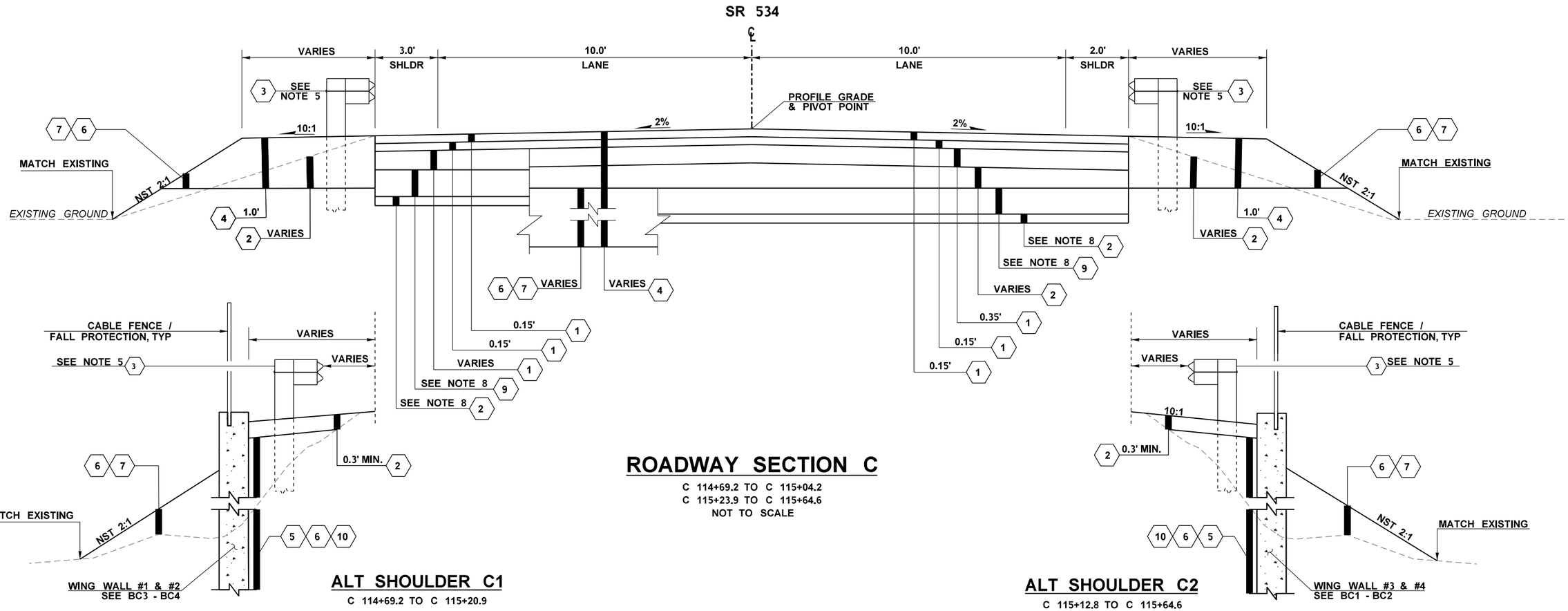
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ROADWAY SECTIONS

Plot 1
PLAN REF NO RS1
SHEET 6 OF 48 SHEETS



ROADWAY SECTION C

C 114+69.2 TO C 115+04.2
C 115+23.9 TO C 115+64.6
NOT TO SCALE

ALT SHOULDER C1

C 114+69.2 TO C 115+20.9

ALT SHOULDER C2

C 115+12.8 TO C 115+64.6

GENERAL NOTES

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS. NO DEPTHS SHALL EXCEED STANDARD SPECIFICATION LIMITS.
2. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
3. MATCH EXISTING ROAD GRADES.
4. CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 IS SKEWED. ROADWAY SECTION D, STATIONING BASED ON CULVERT LOCATION AT C LINE STATION C 115+14.07.
5. SEE SHEET PV1 FOR SHOULDER, BARRIER, AND GUARDRAIL PLACEMENT AND EXTENTS.
6. SEE SHEET BC1 - BC5 FOR WALL AND BURIED STRUCTURE DETAILS.
7. INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS.
8. PRECAST BRIDGE APPROACH SLAB SHALL BE CONTRACTOR DESIGNED IN ACCORDANCE WITH STANDARD PLAN A-40.50, BUT CAN BE REDUCED TO A MINIMUM 20' LENGTH ON THE SHORTEST END AND SHALL BE INSTALLED IN PRECAST SECTIONS. INCLUDED IN THE LUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1".

MATERIAL LEGEND

1	HMA CL. 1/2 IN. PG 58H-22	6	EMBANKMENT COMPACTION (SEE NOTE 7)
2	CRUSHED SURFACING BASE COURSE	7	GRAVEL BORROW INCL. HAUL (SEE NOTE 7)
3	BEAM GUARDRAIL TYPE 31	8	PLANING BITUMINOUS PAVEMENT
4	ROADWAY EXCAVATION INCL. HAUL (SEE NOTE 7)	9	PRECAST BRIDGE APPROACH SLAB (CONTRACTOR DESIGNED)
5	STRUCTURE EXCAVATION CLASS A INCL. HAUL (SEE NOTE 7)	10	LIGHTWEIGHT VOLCANIC BORROW INCL. HAUL (SEE NOTE 7)

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\SR534_050_PS_RS.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	4:34:21 PM				JOB NUMBER 22A021		
DATE	10/6/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	HarDoug						
DESIGNED BY	D. HARRIS						
ENTERED BY	R. MCEWAN						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
SEE CT1
DATE
P.E. STAMP BOX

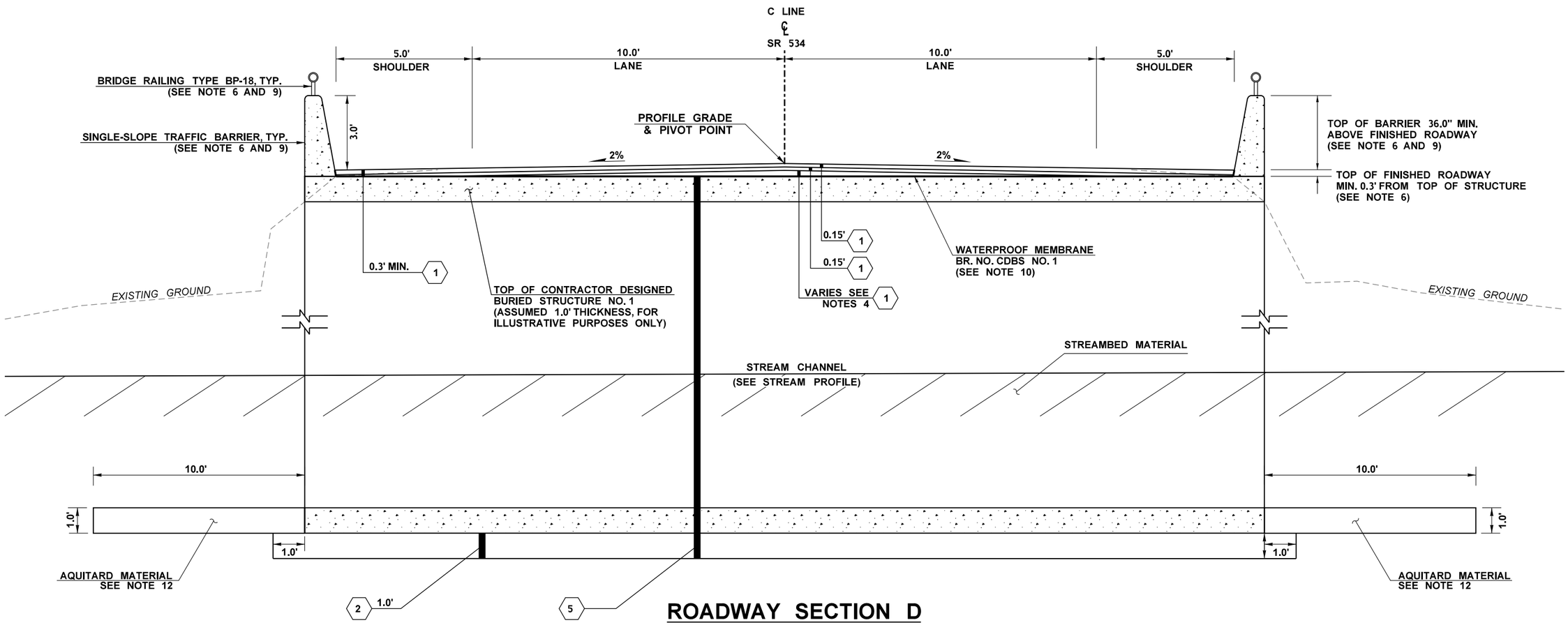
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ROADWAY SECTIONS

Plot 2
PLAN REF NO RS2
SHEET 7 OF 48 SHEETS



ROADWAY SECTION D

C 115+04.2 TO C 115+23.9
NOT TO SCALE

MATERIAL LEGEND

1	HMA CL. 1/2 IN. PG 58H-22
2	CRUSHED SURFACING BASE COURSE
5	STRUCTURE EXCAVATION CLASS A INCL. HAUL (SEE NOTE 7)
7	GRAVEL BORROW INCL. HAUL (SEE NOTE 8)

GENERAL NOTES

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS. NO DEPTHS SHALL EXCEED STANDARD SPECIFICATION LIMITS.
2. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
3. MATCH EXISTING ROAD GRADES.
4. CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1 IS SKEWED. ROADWAY SECTION D, STATIONING BASED ON CULVERT LOCATION AT C LINE STATION C 115+14.07.
5. PAVEMENT THICKNESS ABOVE STRUCTURE SHALL BE A MINIMUM 0.3' OF HMA WITH ADDITIONAL LIFTS AS REQUIRED TO MATCH ROADWAY PROFILE.
6. SEE SHEET BC1 - BC4 FOR WALL AND BURIED STRUCTURE DETAILS.
7. INCLUDED IN THE LUMP SUM BID ITEM "EARTHWORK". SEE SPECIAL PROVISIONS
8. PRECAST BRIDGE APPROACH SLAB SHALL BE CONTRACTOR DESIGNED IN ACCORDANCE WITH STANDARD PLAN A-40.50, BUT CAN BE REDUCED TO A MINIMUM 20' LENGTH ON THE SHORTEST END AND SHALL BE INSTALLED IN PRECAST SECTIONS. INCLUDED IN THELUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1".
9. ALL TRAFFIC BARRIERS, RAILINGS AND/OR FALL PROTECTION, HEADWALLS, AND WINGWALLS SHALL BE INCLUDED IN LUMP SUM PRICE OF THE CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1. SEE SHEETS BR1 - BR5.
10. DESIGN OF THE APPROACH SLABS SHALL BE PROVIDED BY THE CONTACTOR IN ACCORDANCE WITH THE STANDARD PLAN A-40.50.
11. TRAFFIC BARRIER SHALL BE MIN. 3.0' IN HEIGHT FROM THE ADJACENT FINISHED ROADWAY SURFACE AND SHALL INCLUDE THE REQUIRED FALL PROTECTION MEASURES. DESIGN OF THE TRAFFIC BARRIER SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD SPECIFICATION 6-20.3(1)G, BURIED STRUCTURES.
12. WATERPROOF MEMBRANE BR. NO. CDBS NO. 1, OVER THE EXTENT OF STRUCTURE BETWEEN ASPHALT SURFACING AND CONCRETE SURFACE TO PROTECT STRUCTURAL INTEGRITY OF THE CONCRETE AND REINFORCEMENT, PER STANDARD SPECIFICATIONS.
13. SEE SPECIAL PROVISION "WATER CROSSINGS". FINAL LOCATION AND DIMENSIONS OF AQUITARD SHALL BE DIRECTED BY THE ENGINEER.

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DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	R. MCEWAN
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 22A021
CONTRACT NO. | LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
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SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
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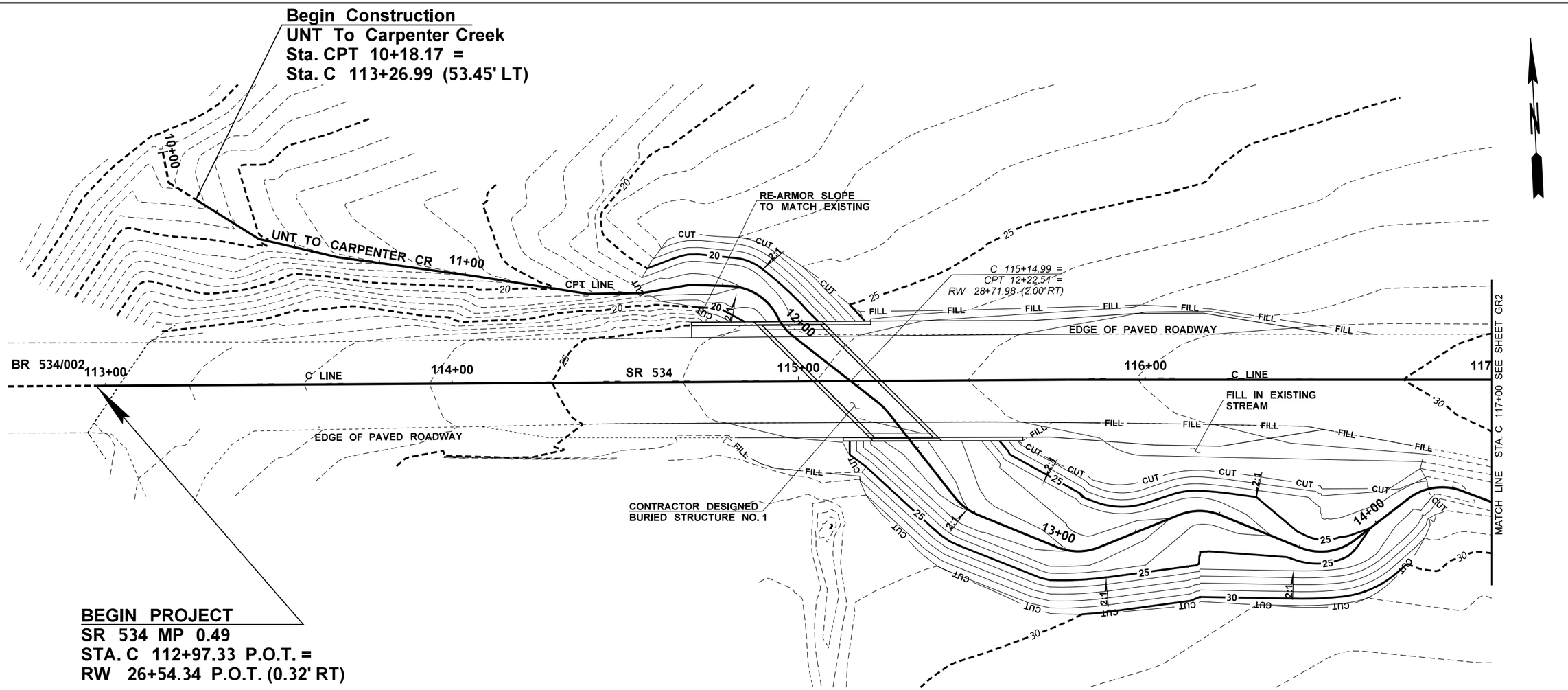
ROADWAY SECTIONS

Plot 3
PLAN REF NO RS3
SHEET 8 OF 48 SHEETS



DATUM

(NAVD) 88

LEGEND

13+00	NEW STREAM / ROADWAY CENTERLINE
13+00	EXISTING STREAM CENTERLINE
53	EXISTING GRADE CONTOUR
53	NEW GRADE CONTOUR
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

NOTES:

1. SEE ALIGNMENT / RIGHT-OF-WAY PLAN, SHEET AL1 FOR STREAM ALIGNMENT DATA AND CONTROL POINT LOCATIONS.

0 15 30
SCALE IN FEET

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DATE	10/4/2022						
PLOTTED BY	hardoug				JOB NUMBER 22A021		
DESIGNED BY	D. HARRIS						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 16006 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

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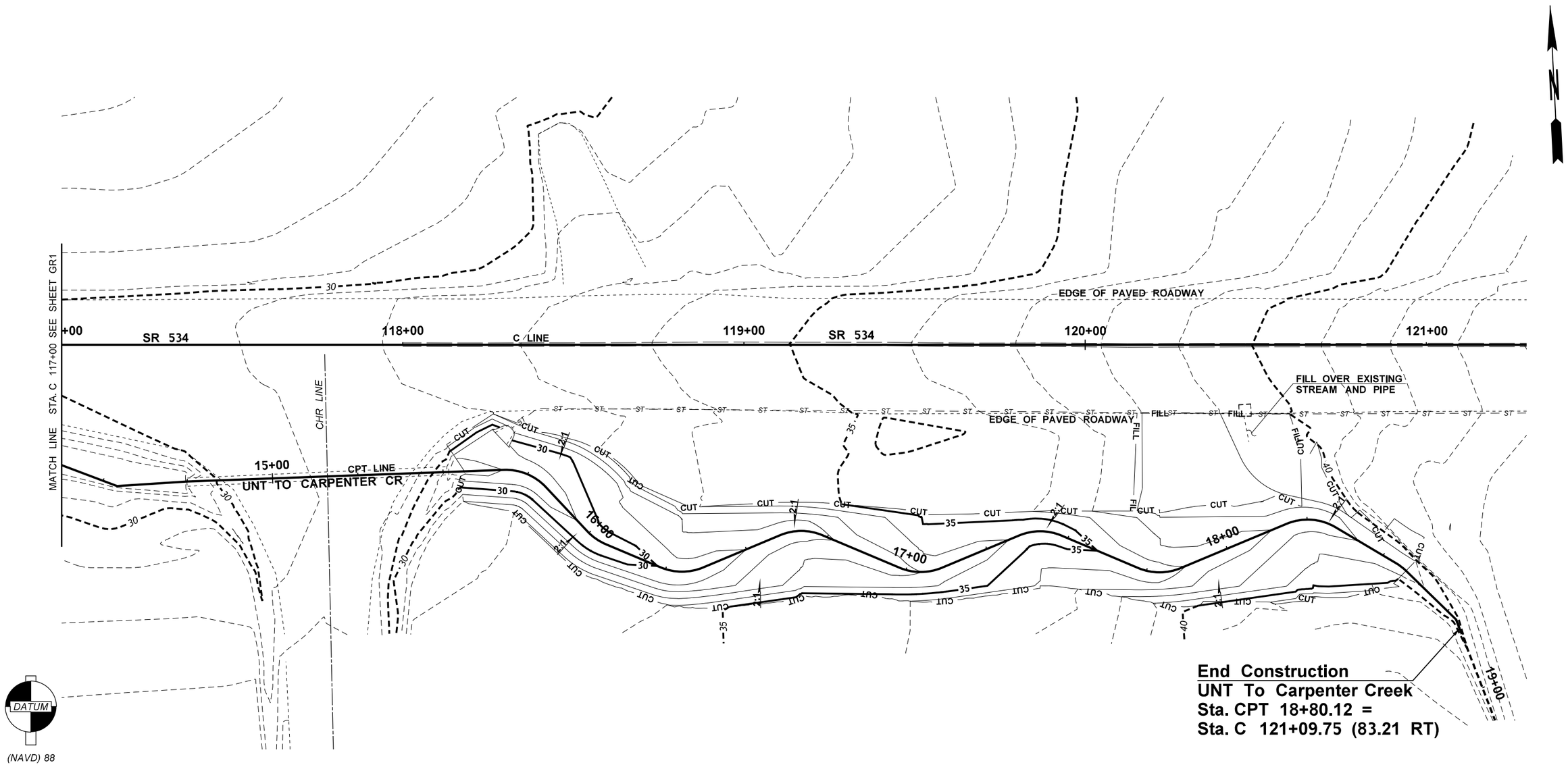
Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

GRADING PLAN

Plot 1
PLAN REF NO
GR1
SHEET 9 OF 48 SHEETS



LEGEND

13+00	NEW STREAM / ROADWAY CENTERLINE
13+00	EXISTING STREAM CENTERLINE
53	EXISTING GRADE CONTOUR
53	NEW GRADE CONTOUR
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

NOTES:

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SCALE IN FEET

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DATE	10/4/2022				JOB NUMBER		
PLOTTED BY	hardoug				22A021		
DESIGNED BY	D. HARRIS				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 46005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
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Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

GRADING PLAN

Plot 2
PLAN REF NO
GR2
SHEET 10 OF 48 SHEETS

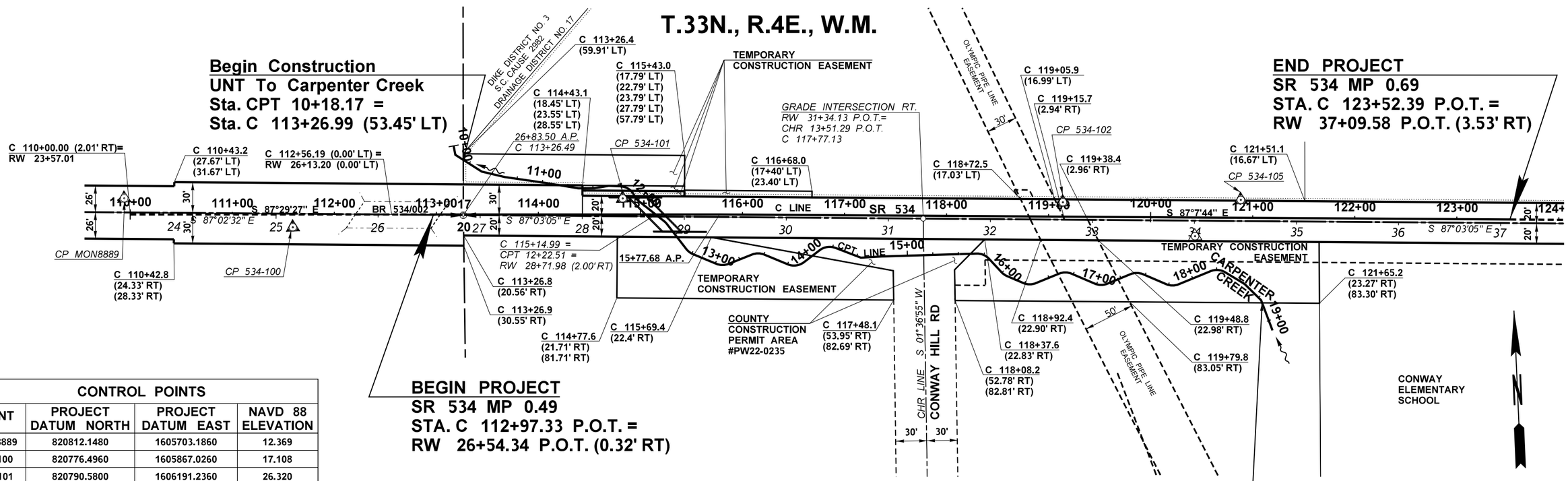
CARPENTER CREEK ALIGNMENT

POINT TYPE	STATION	DIRECTION	LENGTH (FT)	POINT TYPE	STATION	DIRECTION	LENGTH (FT)	POINT TYPE	STATION	DIRECTION	LENGTH (FT)	POINT TYPE	STATION	DIRECTION	LENGTH (FT)
POB	CPT 10+00.00	S 8°09'39.58" E	8.92	P.T.	CPT 12+36.61	S 35°19'53.59" E	31.33	AP	CPT 14+74.76	S 89°14'34.80" E	76.52	P.C.	CPT 17+35.22	N 70°08'57.93" E	
AP	CPT 10+08.92	S 55°07'53.11" E	30.61	P.C.	CPT 12+67.94	S 35°19'53.59" E		AP	CPT 15+51.28	S 89°14'34.80" E	16.61	P.T.	CPT 17+47.95	S 64°15'07.27" E	24.52
AP	CPT 10+39.53	S 74°03'01.91" E	23.18	P.T.	CPT 12+76.22	S 64°58'56.76" E	24.79	P.C.	CPT 15+67.89	S 89°14'34.80" E		P.C.	CPT 17+72.47	S 64°15'07.27" E	
AP	CPT 10+62.71	S 79°15'01.51" E	40.61	P.T.	CPT 13+01.01	S 64°58'56.76" E		P.T.	CPT 15+81.56	S 40°17'13.37" E	17.81	P.T.	CPT 17+85.20	N 70°08'57.93" E	33.64
AP	CPT 11+03.32	S 78°13'10.51" E	32.58	P.T.	CPT 13+13.34	N 70°52'47.41" E	24.79	P.C.	CPT 15+99.36	S 40°17'13.37" E		P.C.	CPT 18+18.84	N 70°08'57.93" E	
AP	CPT 11+35.90	S 87°58'44.32" E	15.68	P.C.	CPT 13+38.13	N 70°52'47.41" E		P.T.	CPT 16+06.05	S 64°15'07.27" E	17.42	P.T.	CPT 18+33.76	S 56°24'57.66" E	20.55
AP	CPT 11+51.58	N 83°03'28.82" E	14.06	P.T.	CPT 13+50.46	S 64°58'56.76" E	24.79	P.C.	CPT 16+23.47	S 64°15'07.27" E		P.C.	CPT 18+54.32	S 56°24'57.66" E	
AP	CPT 11+65.64	S 85°12'48.69" E	11.38	P.C.	CPT 13+75.25	S 64°58'56.76" E		P.T.	CPT 16+36.21	N 70°08'57.93" E	24.52	P.T.	CPT 18+58.10	S 42°52'56.59" E	20.49
P.C.	CPT 11+77.02	S 85°12'48.69" E		P.T.	CPT 13+91.95	N 55°13'04.44" E	19.49	P.C.	CPT 16+60.72	N 70°08'57.93" E		AP	CPT 18+78.59	S 18°14'25.85" E	31.68
P.C.	CPT 11+94.31	S 23°19'25.00" E		P.C.	CPT 14+11.44	N 55°13'04.44" E		P.T.	CPT 16+73.46	S 64°15'07.27" E	24.52	POE	CPT 19+10.27	S 18°14'25.85" E	
P.T.	CPT 12+01.52	S 49°10'00.29" E	31.23	P.T.	CPT 14+27.72	S 66°30'18.53" E	26.66	P.C.	CPT 16+97.97	S 64°15'07.27" E					
P.C.	CPT 12+32.75	S 49°10'00.29" E		AP	CPT 14+54.37	N 89°12'36.33" E	20.38	P.T.	CPT 17+10.70	N 70°08'57.93" E	24.52				

POB = POINT OF BEGINNING POE = POINT OF END
AP = ANGLE POINT

CURVE DATA - CARPENTER CREEK ALIGNMENT

P.C. STATION	P.I. STATION	P.T. STATION	DELTA	RADIUS	LENGTH	TANGENT
CPT 11+77.02	CPT 11+86.62	-	61°53'23.69" RT	16.00	17.28	9.59
CPT 11+94.31	CPT 11+97.98	CPT 12+01.52	25°50'35.28" LT	16.00	7.22	3.67
CPT 12+32.75	CPT 12+34.69	CPT 12+36.61	13°50'06.70" RT	16.00	3.86	1.94
CPT 12+67.94	CPT 12+72.17	CPT 12+76.22	29°39'03.17" LT	16.00	8.28	4.24
CPT 13+01.01	CPT 13+07.50	CPT 13+13.34	44°08'15.83" LT	16.00	12.33	6.49
CPT 13+38.13	CPT 13+44.62	CPT 13+50.46	44°08'15.83" RT	16.00	12.33	6.49
CPT 13+75.25	CPT 13+84.45	CPT 13+91.95	59°47'58.80" LT	16.00	16.70	9.20
CPT 14+11.44	CPT 14+20.36	CPT 14+27.72	58°16'37.03" RT	16.00	16.27	8.92
CPT 15+67.89	CPT 15+75.17	CPT 15+81.56	48°57'21.43" RT	16.00	13.67	7.28
CPT 15+99.36	CPT 16+02.76	CPT 16+06.05	23°57'53.90" LT	16.00	6.69	3.40
CPT 16+23.47	CPT 16+30.20	CPT 16+36.21	45°35'54.81" LT	16.00	12.73	6.73
CPT 16+60.72	CPT 16+67.45	CPT 16+73.46	45°35'54.81" RT	16.00	12.73	6.73
CPT 16+97.97	CPT 17+04.70	CPT 17+10.70	45°35'54.81" LT	16.00	12.73	6.73
CPT 17+35.22	CPT 17+41.95	CPT 17+47.95	45°35'54.81" RT	16.00	12.73	6.73
CPT 17+72.47	CPT 17+79.19	CPT 17+85.20	45°35'54.81" LT	16.00	12.73	6.73
CPT 18+18.84	CPT 18+26.90	CPT 18+33.76	53°26'04.42" RT	16.00	14.92	8.05
CPT 18+54.32	CPT 18+56.22	CPT 18+58.10	13°32'01.06" RT	16.00	3.78	1.90



CONTROL POINTS

POINT	PROJECT DATUM NORTH	PROJECT DATUM EAST	NAVD 88 ELEVATION
MON8889	820812.1480	1605703.1860	12.369
534-100	820776.4960	1605867.0260	17.108
534-101	820790.5800	1606191.2360	26.320
534-102	820767.9800	1606622.0620	34.800
534-105	820762.6360	1606796.3150	40.776

LEGEND

- 11+00 — NEW CONSTRUCTION ALIGNMENT
- 25 — EXISTING RIGHT OF WAY ALIGNMENT
- COUNTY CENTERLINE
- WSDOT RIGHT OF WAY
- TEMPORARY EASEMENTS NEW
- COUNTY RIGHT OF WAY
- RIGHT OF WAY EASEMENT
- PRIMARY CONTROL POINT
- SECTION LINE
- QUARTER SECTION LINE
- 17 / 20 — QUARTER CORNER FOUND
- 1-25068 — PARCEL NUMBER

GENERAL NOTES:

1. PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.
2. BEARING AND DISTANCES ARE BASED ON THE WASHINGTON STATE PLANE COORDINATE SYSTEM - NORTH ZONE, NAD 83/2011.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN THE GRID DISTANCES, MULTIPLY THE GROUND DISTANCE BY THE COMBINED FACTOR OF 0.999951559 AND SUBTRACT 100,000 METERS.

0 50 100
SCALE IN FEET

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DESIGNED BY	D. HARRIS				
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CHECKED BY	A. WILLIAMS				
PROJ. ENGR.	S. BEIER				
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER
SEE CT1
DATE
P.E. STAMP BOX

DATE
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Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ALIGNMENT / RIGHT OF WAY PLAN

Plot 1
PLAN REF NO AL1
SHEET 11 OF 48 SHEETS

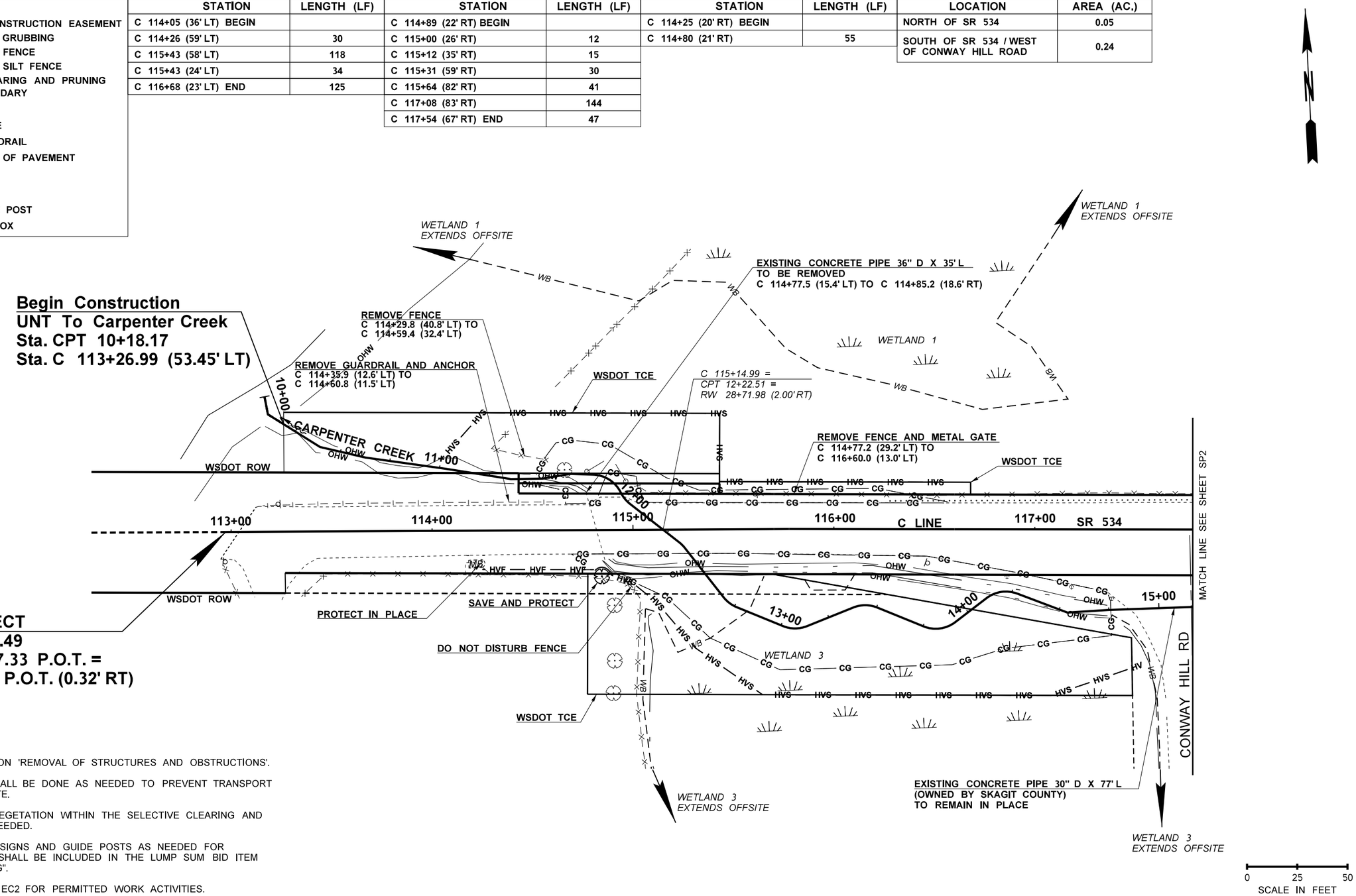
LEGEND	
	RIGHT OF WAY
	TEMPORARY CONSTRUCTION EASEMENT
CG — CG	CLEARING AND GRUBBING
HVF — HVF	HIGH VISIBILITY FENCE
HVS — HVS — HV	HIGH VISIBILITY SILT FENCE
SCP	SELECTIVE CLEARING AND PRUNING
WB	WETLAND BOUNDARY
	EXISTING GATE
	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING EDGE OF PAVEMENT
	EXISTING TREE
	EXISTING SIGN
	EXISTING GUIDE POST
MB	EXISTING MAILBOX

HIGH VISIBILITY SILT FENCE	
STATION	LENGTH (LF)
C 114+05 (36' LT) BEGIN	
C 114+26 (59' LT)	30
C 115+43 (58' LT)	118
C 115+43 (24' LT)	34
C 116+68 (23' LT) END	125

HIGH VISIBILITY SILT FENCE	
STATION	LENGTH (LF)
C 114+89 (22' RT) BEGIN	
C 115+00 (26' RT)	12
C 115+12 (35' RT)	15
C 115+31 (59' RT)	30
C 115+64 (82' RT)	41
C 117+08 (83' RT)	144
C 117+54 (67' RT) END	47

HIGH VISIBILITY FENCE	
STATION	LENGTH (LF)
C 114+25 (20' RT) BEGIN	
C 114+80 (21' RT)	55

CLEARING AND GRUBBING	
LOCATION	AREA (AC.)
NORTH OF SR 534	0.05
SOUTH OF SR 534 / WEST OF CONWAY HILL ROAD	0.24



NOTES:

1. SEE SPECIAL PROVISION 'REMOVAL OF STRUCTURES AND OBSTRUCTIONS'.
2. STREET CLEANING SHALL BE DONE AS NEEDED TO PREVENT TRANSPORT OF SEDIMENT OFF SITE.
3. PRUNE TREES AND VEGETATION WITHIN THE SELECTIVE CLEARING AND PRUNING AREA AS NEEDED.
4. REMOVE AND RESET SIGNS AND GUIDE POSTS AS NEEDED FOR CONSTRUCTION AND SHALL BE INCLUDED IN THE LUMP SUM BID ITEM "ROADWAY SURVEYING".
5. SEE SHEET EC1 AND EC2 FOR PERMITTED WORK ACTIVITIES.

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DESIGNED BY	D. HARRIS			
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REGION NO.	STATE	FED.AID PROJ.NO.
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SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

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Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SITE PREPARATION / TESC

Plot 1
PLAN REF NO
SP1
SHEET 12 OF 48 SHEETS

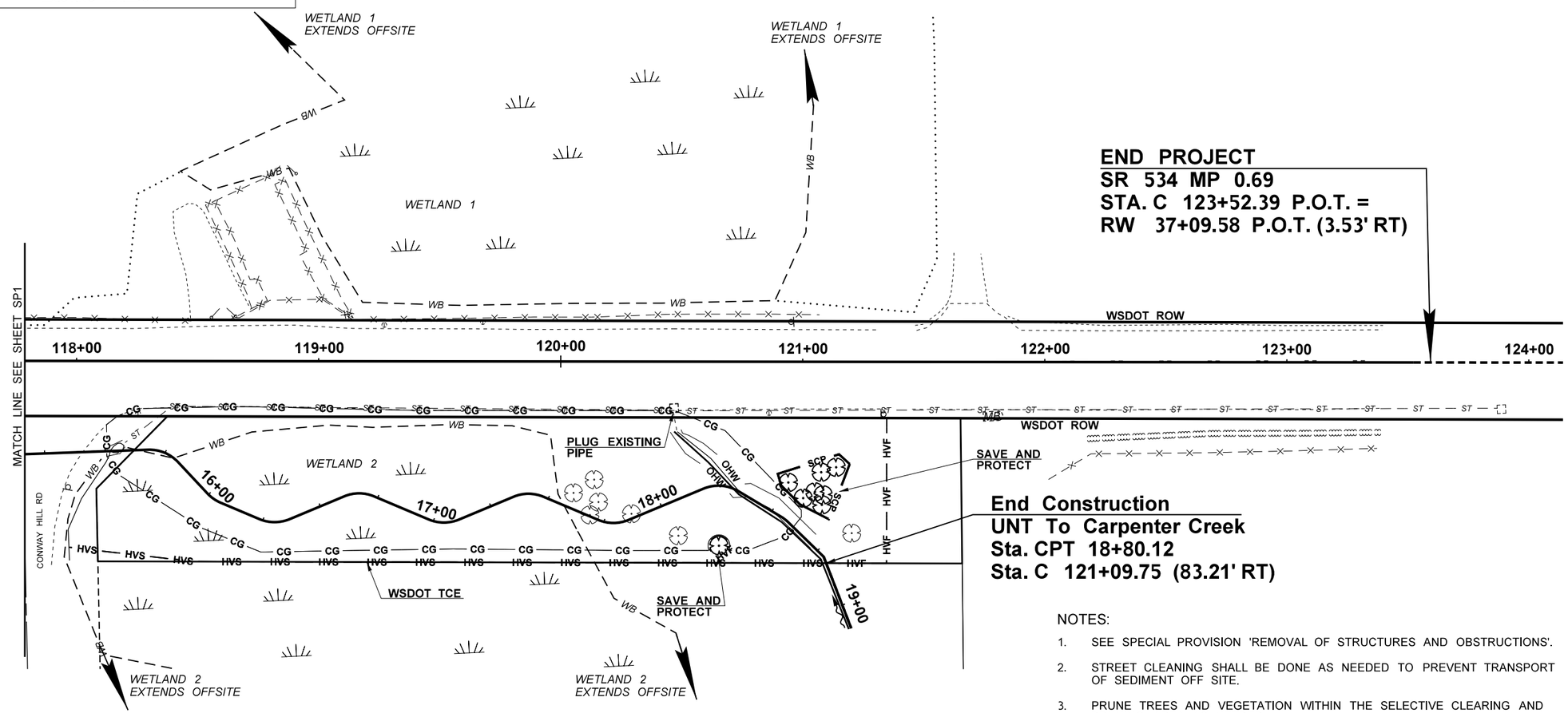
LEGEND	
	RIGHT OF WAY
	TEMPORARY CONSTRUCTION EASEMENT
CG CG	CLEARING AND GRUBBING
HVF HVF	HIGH VISIBILITY FENCE
HVS HVS HV	HIGH VISIBILITY SILT FENCE
SCP	SELECTIVE CLEARING AND PRUNING
WB	WETLAND BOUNDARY
	EXISTING GATE
	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING EDGE OF PAVEMENT
	EXISTING TREE
	EXISTING SIGN
	EXISTING GUIDE POST
MB	EXISTING MAILBOX

SELECTIVE CLEARING AND PRUNING
STATION
C 120+90 (46' RT) BEGIN
C 121+15 (38' RT)
C 121+19 (42' RT)
C 121+11 (65' RT)
C 120+99 (59' RT)
C 120+91 (51' RT)
C 120+90 (46' RT) END

HIGH VISIBILITY SILT FENCE	
STATION	LENGTH (LF)
C 117+97 (77' RT) BEGIN	
C 118+48 (83' RT)	47
C 121+08 (83' RT) END	260

HIGH VISIBILITY FENCE	
STATION	LENGTH (LF)
C 121+15 (83' RT) BEGIN	
C 121+35 (83' RT)	20
C 121+35 (23' RT) END	60

CLEARING AND GRUBBING	
LOCATION	AREA (AC.)
SOUTH OF SR 534 / EAST OF CONWAY HILL ROAD	0.34



NOTES:

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3. PRUNE TREES AND VEGETATION WITHIN THE SELECTIVE CLEARING AND PRUNING AREA AS NEEDED.
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5. SEE SHEET EC1 AND EC2 FOR PERMITTED WORK ACTIVITIES.

0 25 50
SCALE IN FEET

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JOB NUMBER 22A021		
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SPENCER T. BEIER STATE OF WASHINGTON 36005 REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
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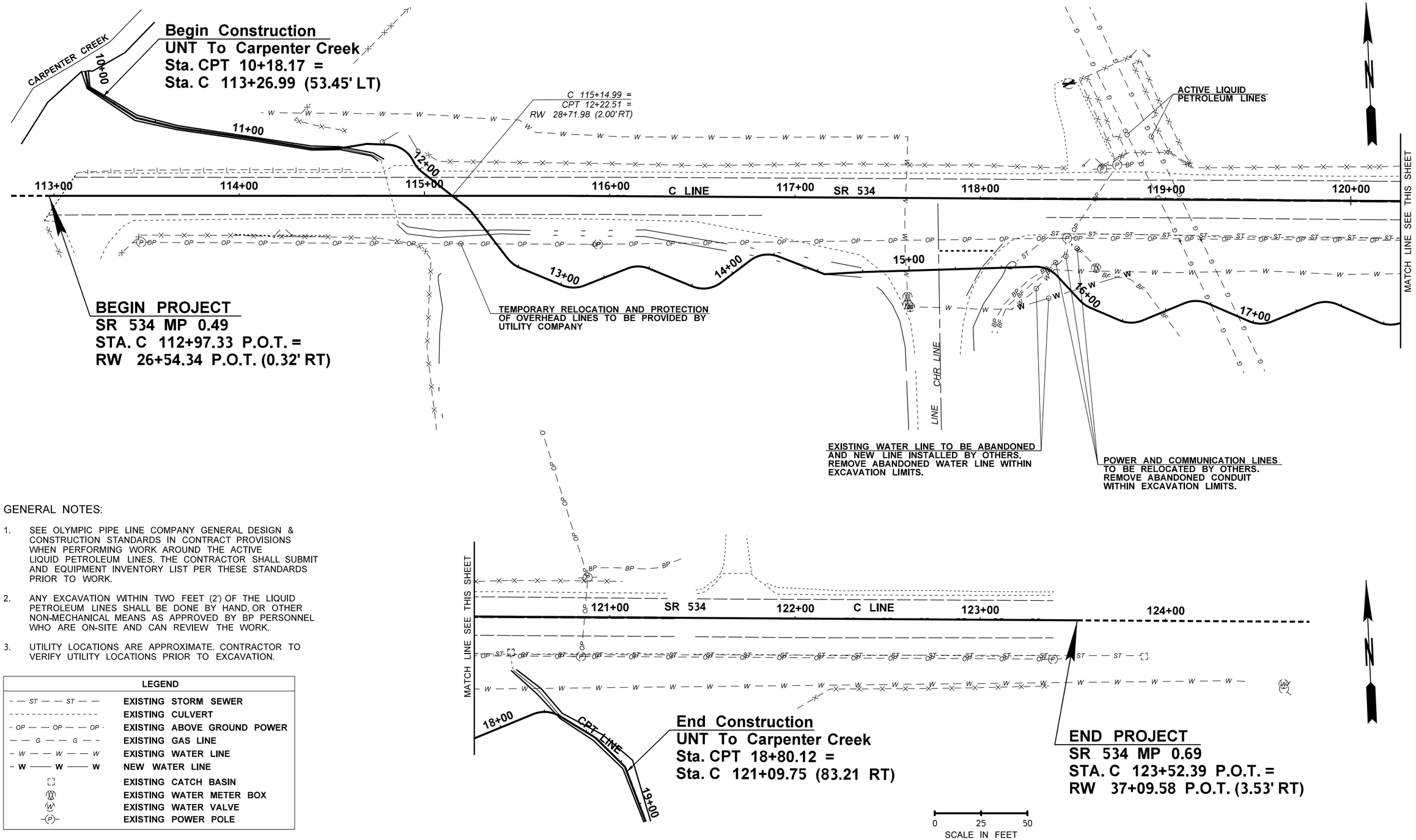
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SITE PREPARATION / TESC

Plot 2
PLAN REF NO
SP2
SHEET 13 OF 48 SHEETS



GENERAL NOTES:

1. SEE OLYMPIC PIPE LINE COMPANY GENERAL DESIGN & CONSTRUCTION STANDARDS IN CONTRACT PROVISIONS WHEN PERFORMING WORK AROUND THE ACTIVE LIQUID PETROLEUM LINES. THE CONTRACTOR SHALL SUBMIT AND EQUIPMENT INVENTORY LIST PER THESE STANDARDS PRIOR TO WORK.
2. ANY EXCAVATION WITHIN TWO FEET (2') OF THE LIQUID PETROLEUM LINES SHALL BE DONE BY HAND, OR OTHER NON-MECHANICAL MEANS AS APPROVED BY BP PERSONNEL WHO ARE ON-SITE AND CAN REVIEW THE WORK.
3. UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY UTILITY LOCATIONS PRIOR TO EXCAVATION.

LEGEND	
- — ST — — ST — —	EXISTING STORM SEWER
- - - - - - - - - - - - - - -	EXISTING CULVERT
- OP — — OP — — OP -	EXISTING ABOVE GROUND POWER
— — G — — G — -	EXISTING GAS LINE
- W — — W — — W	EXISTING WATER LINE
- W —— W —— W	NEW WATER LINE
[ ]	EXISTING CATCH BASIN
(M)	EXISTING WATER METER BOX
(W)	EXISTING WATER VALVE
-(P)-	EXISTING POWER POLE

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DESIGNED BY	D. HARRIS						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

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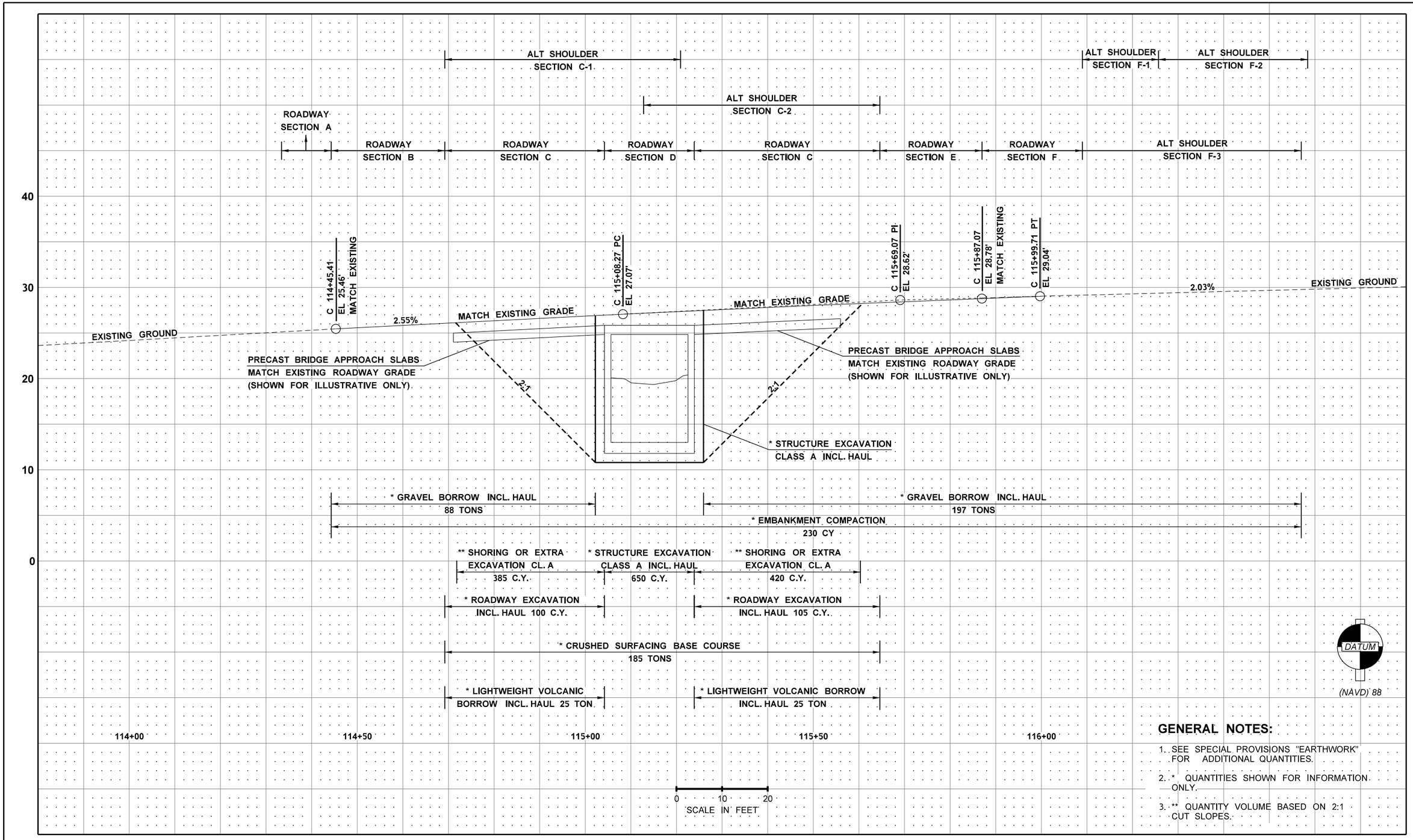
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

EXISTING UTILITIES

Plot 1
PLAN REF NO EU1
SHEET 14 OF 48 SHEETS



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS "EARTHWORK" FOR ADDITIONAL QUANTITIES.
2. * QUANTITIES SHOWN FOR INFORMATION ONLY.
3. ** QUANTITY VOLUME BASED ON 2:1 CUT SLOPES.

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ENTERED BY	D. HARRIS
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER STATE OF WASHINGTON 36005 REGISTERED PROFESSIONAL ENGINEER

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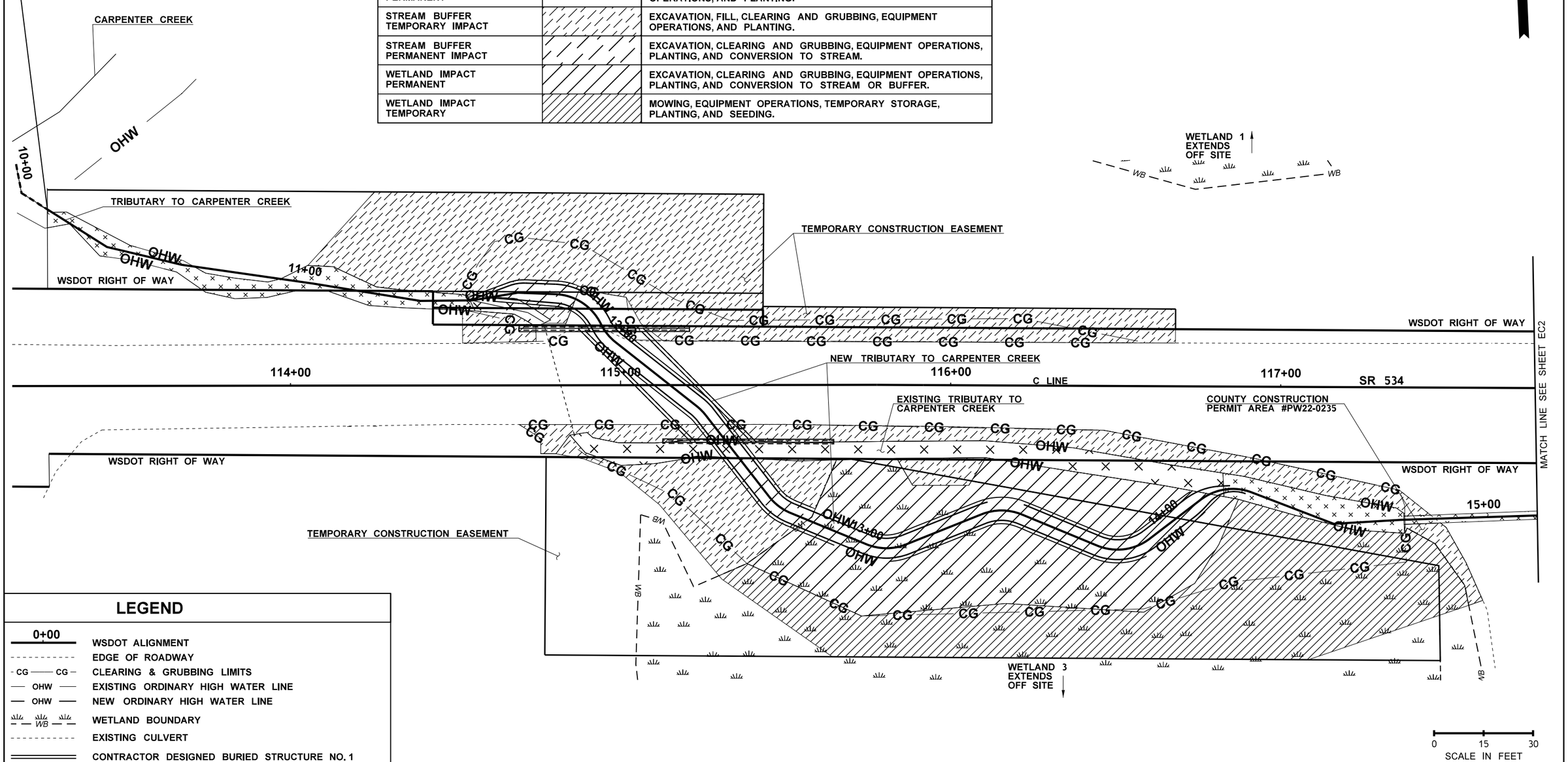
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ROADWAY PROFILE

Plot 1
PLAN REF. NO. RP1
SHEET 15 OF 48 SHEETS

WORK SUMMARY

IMPACT TYPE	LEGEND	PERMITTED WORK ACTIVITIES
STREAM IMPACT TEMPORARY		FISH EXCLUSION, LABOR OPERATIONS, STREAM DIVERSION.
STREAM IMPACT PERMANENT		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.
STREAM BUFFER TEMPORARY IMPACT		EXCAVATION, FILL, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.
STREAM BUFFER PERMANENT IMPACT		EXCAVATION, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, PLANTING, AND CONVERSION TO STREAM.
WETLAND IMPACT PERMANENT		EXCAVATION, CLEARING AND GRUBBING, EQUIPMENT OPERATIONS, PLANTING, AND CONVERSION TO STREAM OR BUFFER.
WETLAND IMPACT TEMPORARY		MOWING, EQUIPMENT OPERATIONS, TEMPORARY STORAGE, PLANTING, AND SEEDING.



LEGEND

0+00	WSDOT ALIGNMENT
	EDGE OF ROADWAY
CG — CG	CLEARING & GRUBBING LIMITS
OHW	EXISTING ORDINARY HIGH WATER LINE
OHW	NEW ORDINARY HIGH WATER LINE
WB	WETLAND BOUNDARY
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

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PLOTTED BY	hardoug
DESIGNED BY	D. HARRIS
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

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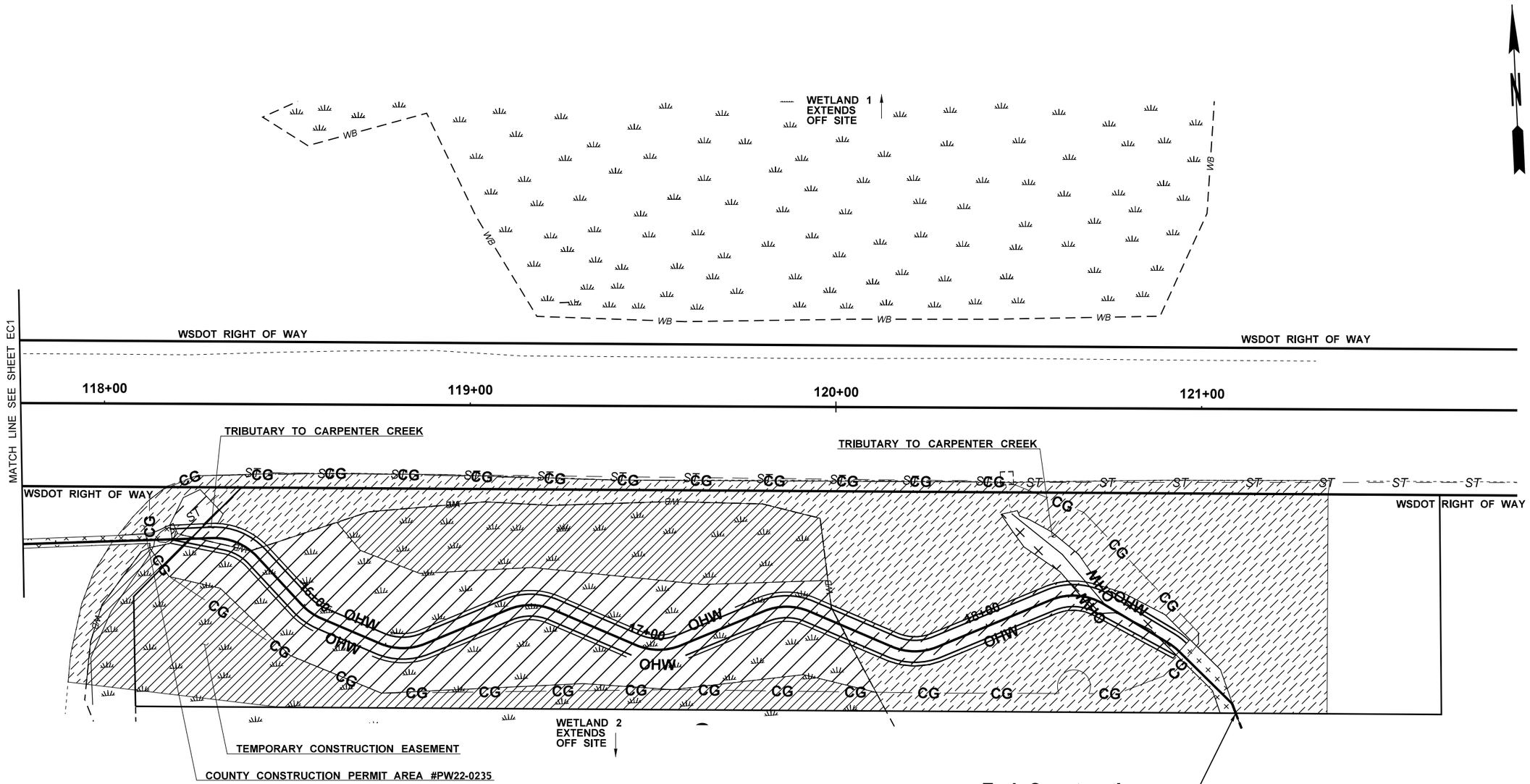
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ENVIRONMENTAL COMPLIANCE PLAN

Plot 11
PLAN REF NO EC1
SHEET 16 OF 48 SHEETS



LEGEND

0+00	WSDOT ALIGNMENT
	EDGE OF ROADWAY
CG — CG	CLEARING & GRUBBING LIMITS
OHW	EXISTING ORDINARY HIGH WATER LINE
OHW	NEW ORDINARY HIGH WATER LINE
WB	WETLAND BOUNDARY
	EXISTING CULVERT
	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1

0 15 30
SCALE IN FEET

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\SR534_130_PS_ECP.dgn							
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DATE	10/4/2022							
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DESIGNED BY	D. HARRIS				JOB NUMBER 22A021			
ENTERED BY	J. MOE							
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.	
PROJ. ENGR.	S. BEIER							
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY				

DATE
P.E. STAMP BOX

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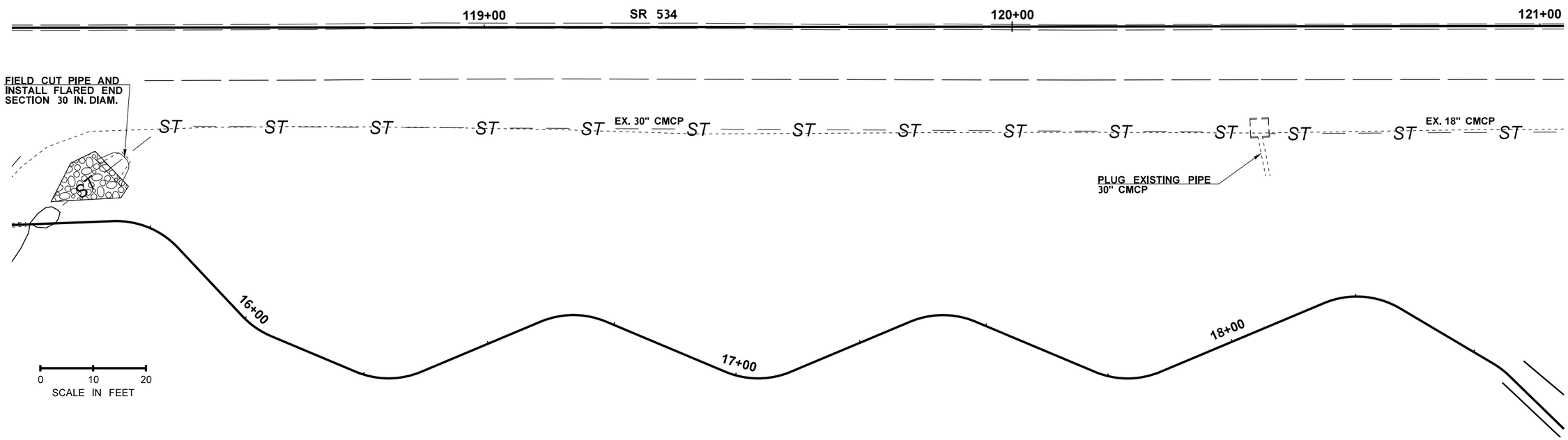
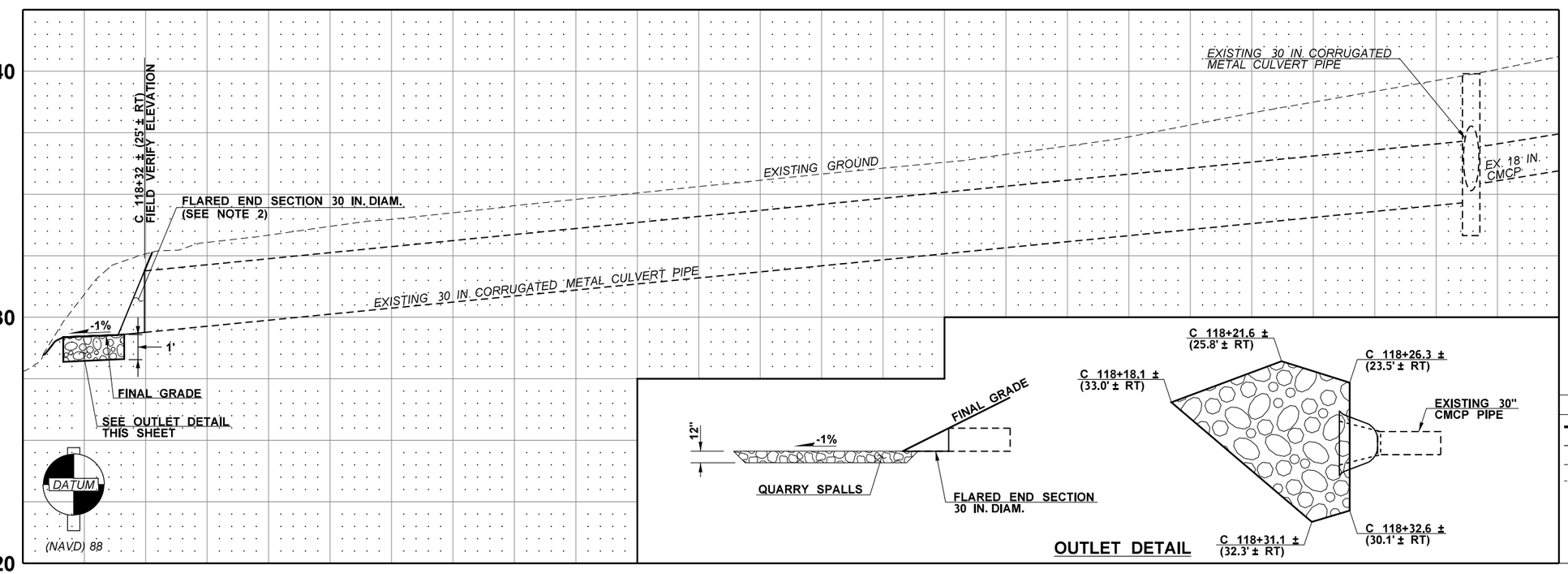
Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

ENVIRONMENTAL COMPLIANCE PLAN

Plot 12
PLAN REF NO
EC2
SHEET 17 OF 48 SHEETS





OUTLET DETAIL

NOTES:

1. FOR EXISTING AND FINAL GROUND SEE GRADING PLAN.
2. FLARED END SECTION, SEE STANDARD PLAN B-70.60.

LEGEND

- CONSTRUCTION CENTERLINE
- EXISTING EDGE OF LANE
- EXISTING EDGE OF PAVEMENT
- ST — — ST — — EXISTING STORM SEWER
- EXISTING CATCH BASIN
- FLARED END SECTION 30 IN. DIAM.

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CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
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Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

DRAINAGE PLAN AND PROFILE

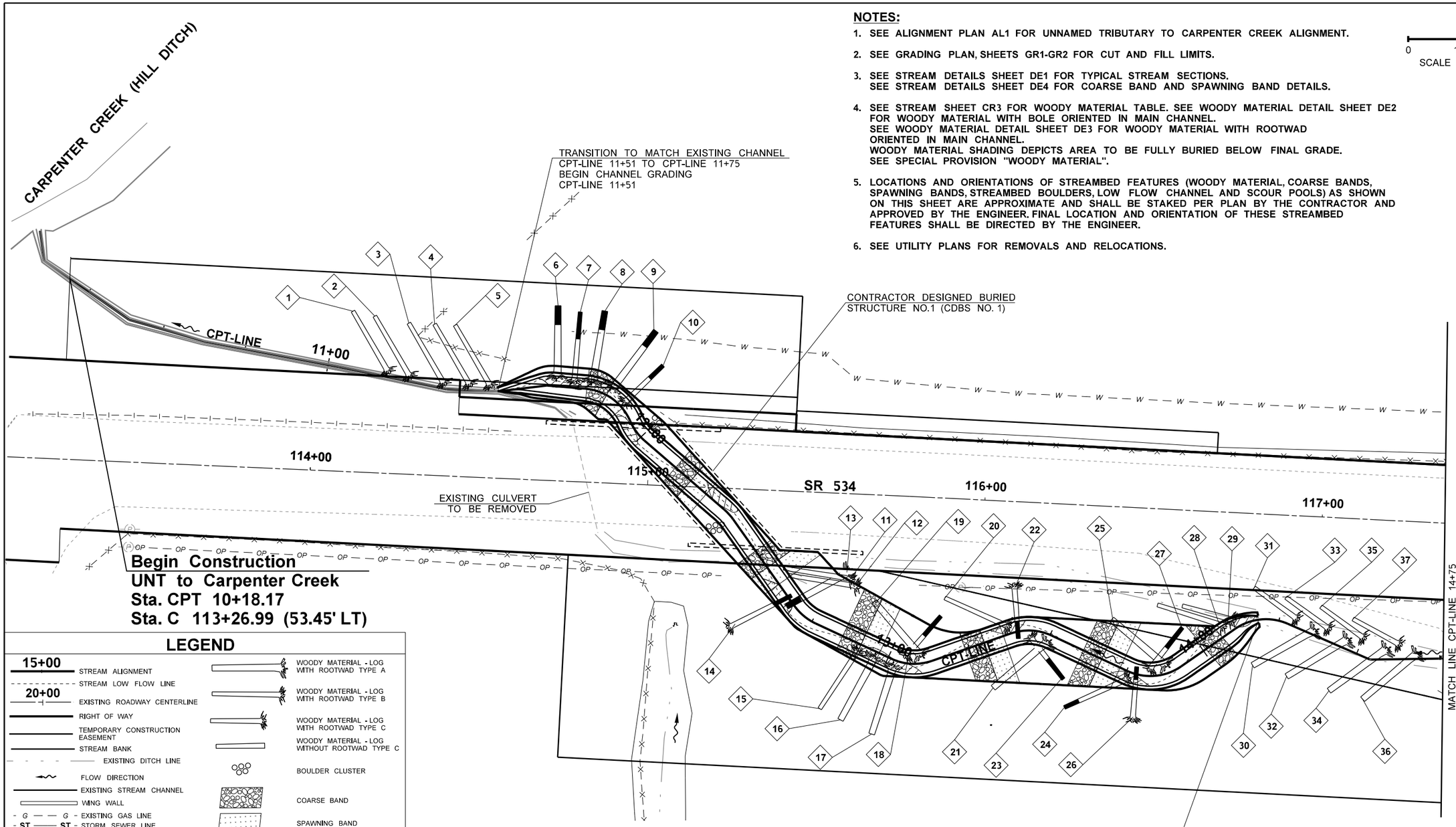
Plot 1
PLAN REF. NO. DR1
SHEET 18 OF 48 SHEETS

NOTES:

1. SEE ALIGNMENT PLAN AL1 FOR UNNAMED TRIBUTARY TO CARPENTER CREEK ALIGNMENT.
2. SEE GRADING PLAN, SHEETS GR1-GR2 FOR CUT AND FILL LIMITS.
3. SEE STREAM DETAILS SHEET DE1 FOR TYPICAL STREAM SECTIONS.
   SEE STREAM DETAILS SHEET DE4 FOR COARSE BAND AND SPAWNING BAND DETAILS.
4. SEE STREAM SHEET CR3 FOR WOODY MATERIAL TABLE. SEE WOODY MATERIAL DETAIL SHEET DE2 FOR WOODY MATERIAL WITH BOLE ORIENTED IN MAIN CHANNEL.
   SEE WOODY MATERIAL DETAIL SHEET DE3 FOR WOODY MATERIAL WITH ROOTWAD ORIENTED IN MAIN CHANNEL.
   WOODY MATERIAL SHADING DEPICTS AREA TO BE FULLY BURIED BELOW FINAL GRADE.
   SEE SPECIAL PROVISION "WOODY MATERIAL".
5. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, STREAMBED BOULDERS, LOW FLOW CHANNEL AND SCOUR POOLS) AS SHOWN ON THIS SHEET ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.
6. SEE UTILITY PLANS FOR REMOVALS AND RELOCATIONS.

0 15 30
SCALE IN FEET

N



LEGEND

- 15+00 STREAM ALIGNMENT
- STREAM LOW FLOW LINE
- 20+00 EXISTING ROADWAY CENTERLINE
- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- STREAM BANK
- EXISTING DITCH LINE
- FLOW DIRECTION
- EXISTING STREAM CHANNEL
- WING WALL
- G — — G - EXISTING GAS LINE
- ST — — ST - STORM SEWER LINE
- ST — — ST - EXISTING STORM SEWER LINE
- W — — W - EXISTING WATER LINE
- OP — — OP - EXISTING OVERHEAD UTILITY
- EXISTING UTILITY POLE
- BP — — BP - BURIED POWER
- BF — — BF - BURIED FIBER
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE A
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE B
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE C
- WOODY MATERIAL - LOG WITHOUT ROOTWAD TYPE C
- BOULDER CLUSTER
- COARSE BAND
- SPAWNING BAND
- PREFORMED SCOUR POOL
- # CONSTRUCTION NOTE. SEE NOTE 4 AND SHEET CR3 FOR LWM (TYP.)
- EXISTING CATCH BASIN
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- GUARDRAIL

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DATE	10/4/2022				JOB NUMBER 22A021		
PLOTTED BY	AudarJun				CONTRACT NO.		LOCATION NO.
DESIGNED BY	A. MILLER						
ENTERED BY	S. CROSIER						
CHECKED BY	T. NABOURS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

JULIE HEILMAN STATE OF WASHINGTON 41813 REGISTERED PROFESSIONAL ENGINEER
P.E. STAMP BOX DATE

Washington State Department of Transportation

Parametrix

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PLAN

PLAN REF NO CR1

SHEET 19 OF 48 SHEETS

NOTES:

1. SEE ALIGNMENT PLAN AL1 FOR UNNAMED TRIBUTARY TO CARPENTER CREEK ALIGNMENT.

2. SEE GRADING PLAN, SHEETS GR1-GR2 FOR CUT AND FILL LIMITS.

3. SEE STREAM DETAILS SHEET DE1 FOR TYPICAL STREAM SECTIONS.
SEE STREAM DETAILS SHEET DE4 FOR COARSE BAND AND SPAWNING BAND DETAILS.

4. SEE STREAM SHEET CR3 FOR WOODY MATERIAL TABLE. SEE WOODY MATERIAL DETAIL SHEET DE2 FOR WOODY MATERIAL WITH BOLE ORIENTED IN MAIN CHANNEL.
SEE WOODY MATERIAL DETAIL SHEET DE3 FOR WOODY MATERIAL WITH ROOTWAD ORIENTED IN MAIN CHANNEL.
WOODY MATERIAL SHADING DEPICTS AREA TO BE FULLY BURIED BELOW FINAL GRADE.
SEE SPECIAL PROVISION "WOODY MATERIAL".

5. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL AND SCOUR POOLS) AS SHOWN ON THIS SHEET ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

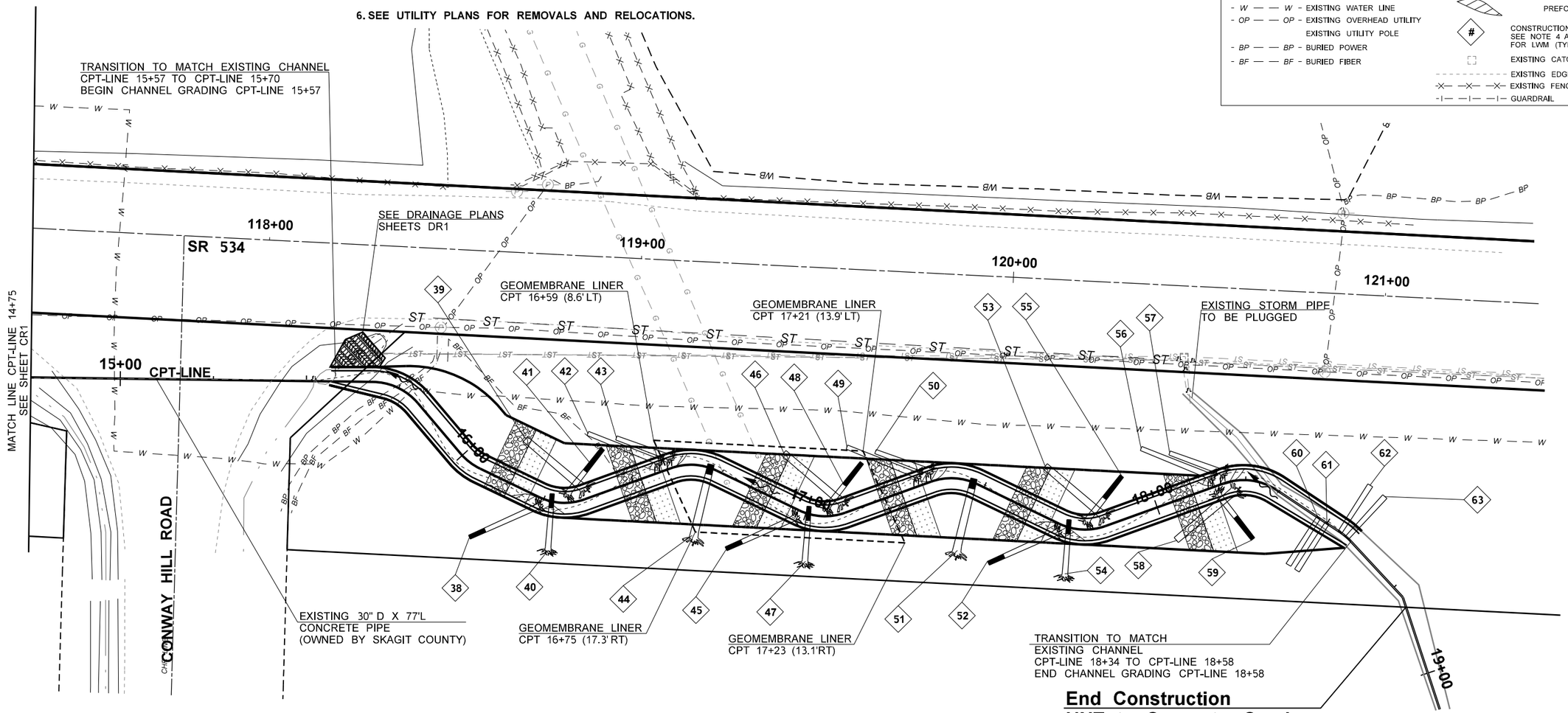
6. SEE UTILITY PLANS FOR REMOVALS AND RELOCATIONS.

0 15 30
SCALE IN FEET

N

LEGEND

- 15+00 STREAM ALIGNMENT
- STREAM LOW FLOW LINE
- 20+00 EXISTING ROADWAY CENTERLINE
- RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- STREAM BANK
- EXISTING DITCH LINE
- FLOW DIRECTION
- EXISTING STREAM CHANNEL
- WING WALL
- G — — G - EXISTING GAS LINE
- ST — — ST - STORM SEWER LINE
- ST — — ST - EXISTING STORM SEWER LINE
- W — — W - EXISTING WATER LINE
- OP — — OP - EXISTING OVERHEAD UTILITY
- EXISTING UTILITY POLE
- BP — — BP - BURIED POWER
- BF — — BF - BURIED FIBER
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE A
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE B
- WOODY MATERIAL - LOG WITH ROOTWAD TYPE C
- WOODY MATERIAL - LOG WITHOUT ROOTWAD TYPE C
- BOULDER CLUSTER
- COARSE BAND
- SPAWNING BAND
- PREFORMED SCOUR POOL
- # CONSTRUCTION NOTE. SEE NOTE 4 AND SHEET CR3 FOR LWM (TYP.)
- EXISTING CATCH BASIN
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- GUARDRAIL



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ENTERED BY	S. CROSIER						
CHECKED BY	T. NABOURS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

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JULIE HEILMAN STATE OF WASHINGTON 41879 REGISTERED PROFESSIONAL ENGINEER
P.E. STAMP BOX DATE

Washington State Department of Transportation

Parametrix

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PLAN

PLAN REF NO CR2

SHEET 20 OF 48 SHEETS

WOODY MATERIAL LOCATION TABLE

SHEET NO.	WOODY MATERIAL NO.	TYPE	IN STREAM FEATURE (SEE NOTE 2)	ROOTWAD (Y/N)	STATION / OFFSET (SEE NOTE 2)	ANGLE A (DEG.)	ANGLE B (DEG.)	DISTANCE C (FT) (SEE NOTE 1)	LOGS TO BE PLACED ABOVE WOODY MATERIAL NO.
CR1	1	B	RW	Y	CPT 11+17 (2' LT)	315	6	1.3	-
CR1	2	B	RW	Y	CPT 11+24 (2' LT)	315	6	1.3	-
CR1	3	B	RW	Y	CPT 11+34 (2' LT)	315	6	1.3	-
CR1	4	B	RW	Y	CPT 11+42 (2' LT)	315	6	1.3	-
CR1	5	B	RW	Y	CPT 11+48 (2' LT)	315	6	1.3	-
CR1	6	A	RW	Y	CPT 11+68 (3.5' LT)	270	15	0.3	-
CR1	7	B	RW	Y	CPT 11+74 (2.5' LT)	270	15	0.3	-
CR1	8	A	RW	Y	CPT 11+79 (3.5' LT)	270	15	0.3	-
CR1	9	A	RW	Y	CPT 11+84 (3.5' LT)	270	15	0.3	-
CR1	10	C	RW	Y	CPT 11+89 (2.5' LT)	270	15	0.3	-
CR1	11	B	STEM	Y	CPT 12+57 (4' LT)	45	10	0.8	-
CR1	12	B	STEM	Y	CPT 12+60 (4' LT)	45	10	0.8	-
CR1	13	A	STEM	Y	CPT 12+67 (2' RT)	80	15	-2.9	11, 12
CR1	14	B	STEM	Y	CPT 12+65 (1' LT)	260	23	-2.0	-
CR1	15	B	RW	Y	CPT 12+91 (2.5' RT)	90	21	0.4	-
CR1	16	A	RW	Y	CPT 12+96 (2.5' RT)	90	19	0.6	-
CR1	17	A	RW	Y	CPT 13+02 (2.5' RT)	90	19	0.6	-
CR1	18	C	RW	Y	CPT 13+06 (2.5' LT)	235	-5	-0.3	19
CR1	19	A	RW	Y	CPT 13+10 (3' LT)	315	0	1.0	-
CR1	20	B	RW	Y	CPT 13+38 (2.5' LT)	315	10	0.3	-
CR1	21	A	RW	Y	CPT 13+50 (3.0' RT)	20	0	1.1	-
CR1	22	C	STEM	Y	CPT 13+40 (2' RT)	90	30	-3.2	-
CR1	23	C	RW	Y	CPT 13+45 (2.5' RT)	110	-5	-0.4	21
CR1	24	B	RW	Y	CPT 13+76 (2.5' RT)	50	6	0.3	-
CR1	25	A	RW	Y	CPT 13+87 (3' LT)	315	0	1.0	-
CR1	26	C	STEM	Y	CPT 13+78 (2' LT)	270	30	-3.2	-
CR1	27	C	RW	Y	CPT 13+83 (2.5' LT)	235	-5	-0.3	25
CR1	28	B	RW	Y	CPT 14+09 (3' LT)	320	4	0.4	-
CR1	29	C	RW	Y	CPT 14+12 (3' LT)	320	4	0.7	-
CR1	30	A	RW	Y	CPT 14+35 (1' LT)	45	6	1.2	-
CR1	31	C	RW	Y	CPT 14+29 (2.5' LT)	340	7	1.0	-
CR1	32	A	RW	Y	CPT 14+45 (2.2' LT)	45	6	1.2	-
CR1	33	C	RW	Y	CPT 14+39 (3.6' LT)	340	7	1.0	-
CR1	34	A	RW	Y	CPT 14+59 (2.6' LT)	45	6	1.2	-
CR1	35	C	RW	Y	CPT 14+49 (5.2' LT)	340	7	1.0	-
CR1	36	A	RW	Y	CPT 14+68 (1.1' LT)	45	6	1.2	-
CR1	37	C	RW	Y	CPT 14+62 (4.6' LT)	340	7	1.0	-
CR2	38	B	RW	Y	CPT 16+24 (2.5' RT)	50	6	0.3	-
CR2	39	A	RW	Y	CPT 16+37 (3' RT)	315	0	1.0	-
CR2	40	C	STEM	Y	CPT 16+27 (2' LT)	270	30	-3.2	-
CR2	41	C	RW	Y	CPT 16+32 (2.5' LT)	235	-5	-0.3	39
CR2	42	B	RW	Y	CPT 16+58 (3' LT)	320	4	0.4	-
CR2	43	C	RW	Y	CPT 16+61 (3' LT)	320	4	0.7	-
CR2	44	A	STEM	Y	CPT 16+71 (1' LT)	290	25	-2.9	-
CR2	45	B	RW	Y	CPT 16+98 (2.5' RT)	50	6	0.3	-
CR2	46	A	RW	Y	CPT 17+11 (3' LT)	315	0	1.0	-
CR2	47	C	STEM	Y	CPT 17+00 (2' LT)	270	30	-3.2	-
CR2	48	C	RW	Y	CPT 17+06 (2.5' LT)	235	-5	-0.3	46
CR2	49	B	RW	Y	CPT 17+32 (3' LT)	320	4	0.4	-
CR2	50	C	RW	Y	CPT 17+35 (3' LT)	320	4	0.7	-
CR2	51	A	STEM	Y	CPT 17+47 (1' LT)	290	25	-2.9	-
CR2	52	B	RW	Y	CPT 17+73 (2.5' RT)	50	6	0.3	-
CR2	53	A	RW	Y	CPT 17+86 (3' LT)	315	0	1.0	-
CR2	54	C	STEM	Y	CPT 17+75 (2' LT)	270	30	-3.2	-
CR2	55	C	RW	Y	CPT 17+80 (2.5' LT)	235	-5	-0.3	53
CR2	56	B	RW	Y	CPT 18+16 (3' LT)	320	4	0.4	-
CR2	57	C	RW	Y	CPT 18+20 (3' LT)	320	4	0.7	-
CR2	58	A	RW	Y	CPT 18+21 (3' RT)	20	0	1.1	-
CR2	59	C	RW	Y	CPT 18+17 (2.5' RT)	110	-5	-0.4	58
CR2	60	C	RW	N	CPT 18+47 (0' RT)	90	12	-0.4	-
CR2	61	C	RW	N	CPT 18+50 (0' RT)	90	12	-0.4	-
CR2	62	C	RW	N	CPT 18+54 (0' LT)	270	20	-0.4	-
CR2	63	C	RW	N	CPT 18+57 (0' LT)	270	20	-0.4	-

NOTES:

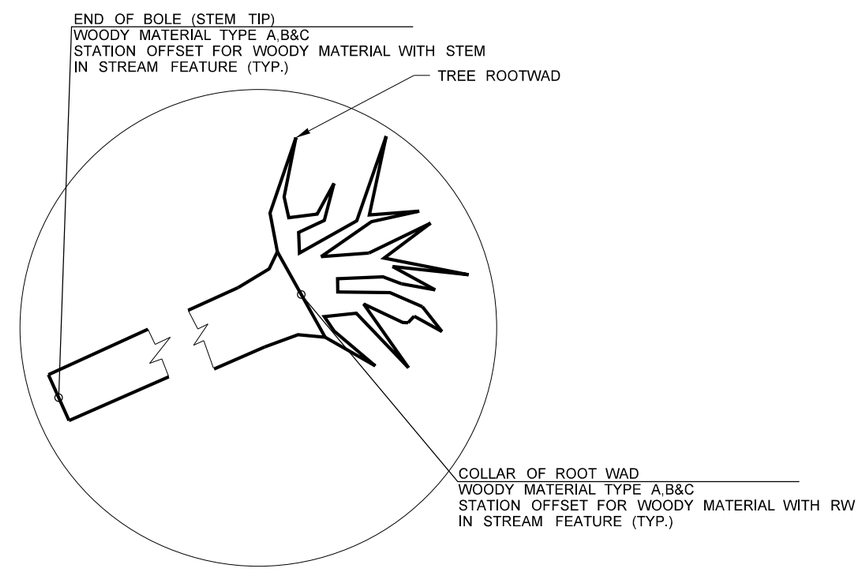
1. SEE DE SHEETS FOR WOODY MATERIAL DETAILS.
2. SEE STATION/OFFSET LOCATION DETAIL BELOW FOR STATION/OFFSET LOCATION BASED ON IN STREAM FEATURE REFERRED TO IN WOODY MATERIAL LOCATION TABLE.
3. MINIMUM LENGTH IS MEASURED FROM COLLAR OF ROOT WAD TO END OF BOLE (STEM TIP).
4. ANGLE "A" IS MEASURED COUNTER CLOCKWISE FROM THE STREAM CENTERLINE TO THE LOG CENTERLINE AT THE STEM TIP AS DEPICTED ON DETAIL SHEET DE2 AND DE3.
5. ANGLE "B" IS MEASURED FROM HORIZONTAL AS SHOWN ON SHEETS DE2 AND DE3. A POSITIVE ANGLE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM MAIN CHANNEL IS HIGHER THAN THE LOG END NEAREST TO THE MAIN CHANNEL. A NEGATIVE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM THE MAIN CHANNEL IS LOWER THAN THE LOG END NEAREST TO THE MAIN CHANNEL.
6. A NEGATIVE "C" VALUE INDICATES DEPTH BENEATH THALWEG. A POSITIVE "C" VALUE INDICATES DEPTH ABOVE THALWEG.
7. LOCATIONS AND ORIENTATION OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL, AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

WOODY MATERIAL - LOG WITH ROOTWAD

TYPE	LENGTH	DBH	TOTAL
TYPE A	20 FT	2.0 FT	19
TYPE B	20 FT	1.5 FT	19
TYPE C	15 FT	1.5 FT	21

WOODY MATERIAL - LOG WITHOUT ROOTWAD

TYPE	LENGTH	DBH	TOTAL
TYPE C	15 FT	1.5 FT	4



STATION / OFFSET LOCATION DETAIL

PLAN VIEW

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PLOTTED BY	AudarJun
DESIGNED BY	A. MILLER
ENTERED BY	S. CROSIER
CHECKED BY	T. NABOURS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX DATE

Washington State Department of Transportation

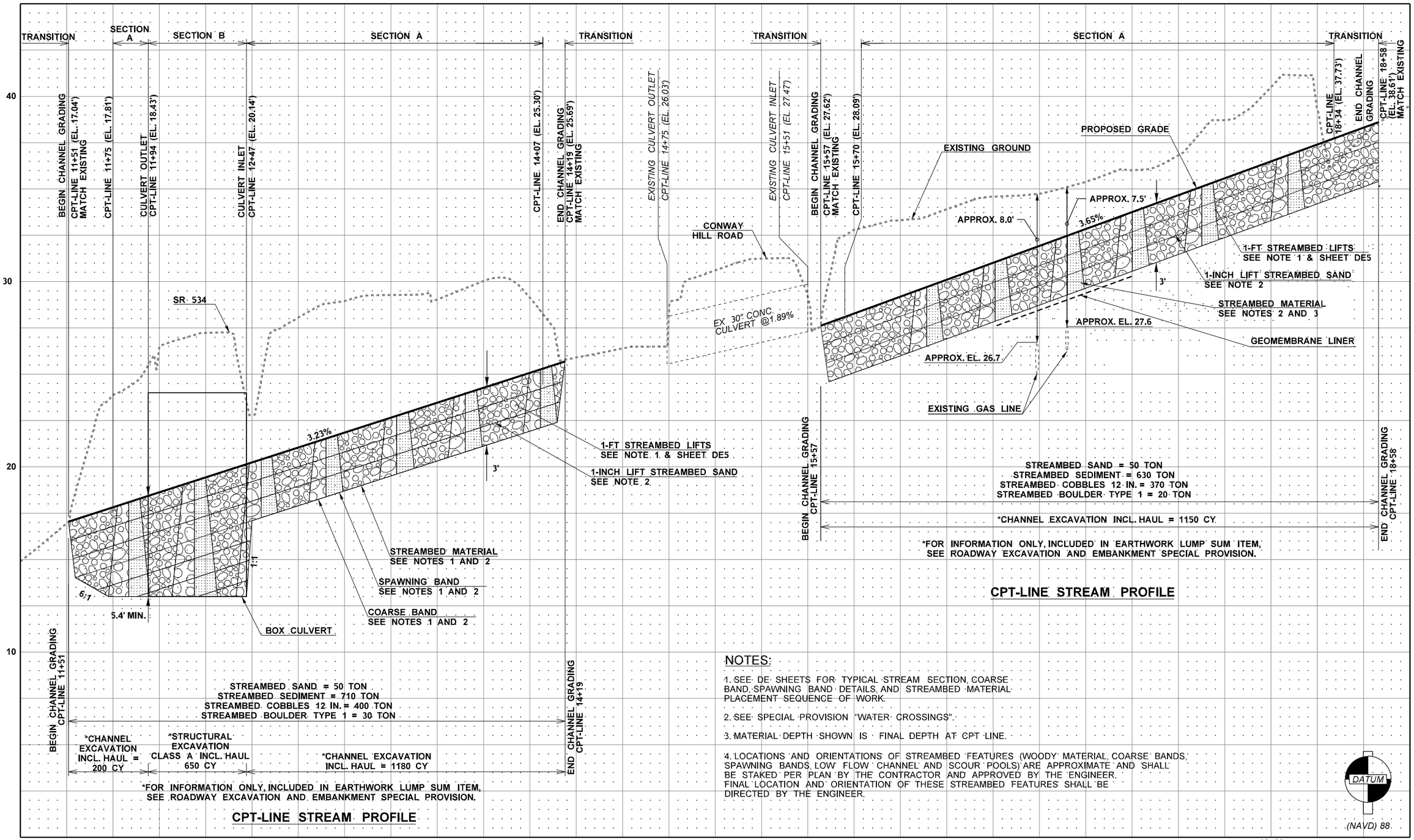
Parametrix

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PLAN

PLAN REF NO CR3

SHEET 21 OF 48 SHEETS



NOTES:

1. SEE DE SHEETS FOR TYPICAL STREAM SECTION, COARSE BAND, SPAWNING BAND DETAILS, AND STREAMBED MATERIAL PLACEMENT SEQUENCE OF WORK.
2. SEE SPECIAL PROVISION "WATER CROSSINGS".
3. MATERIAL DEPTH SHOWN IS FINAL DEPTH AT CPT LINE.
4. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

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DESIGNED BY	A. MILLER						
ENTERED BY	S. CROSIER						
CHECKED BY	T. NABOURS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

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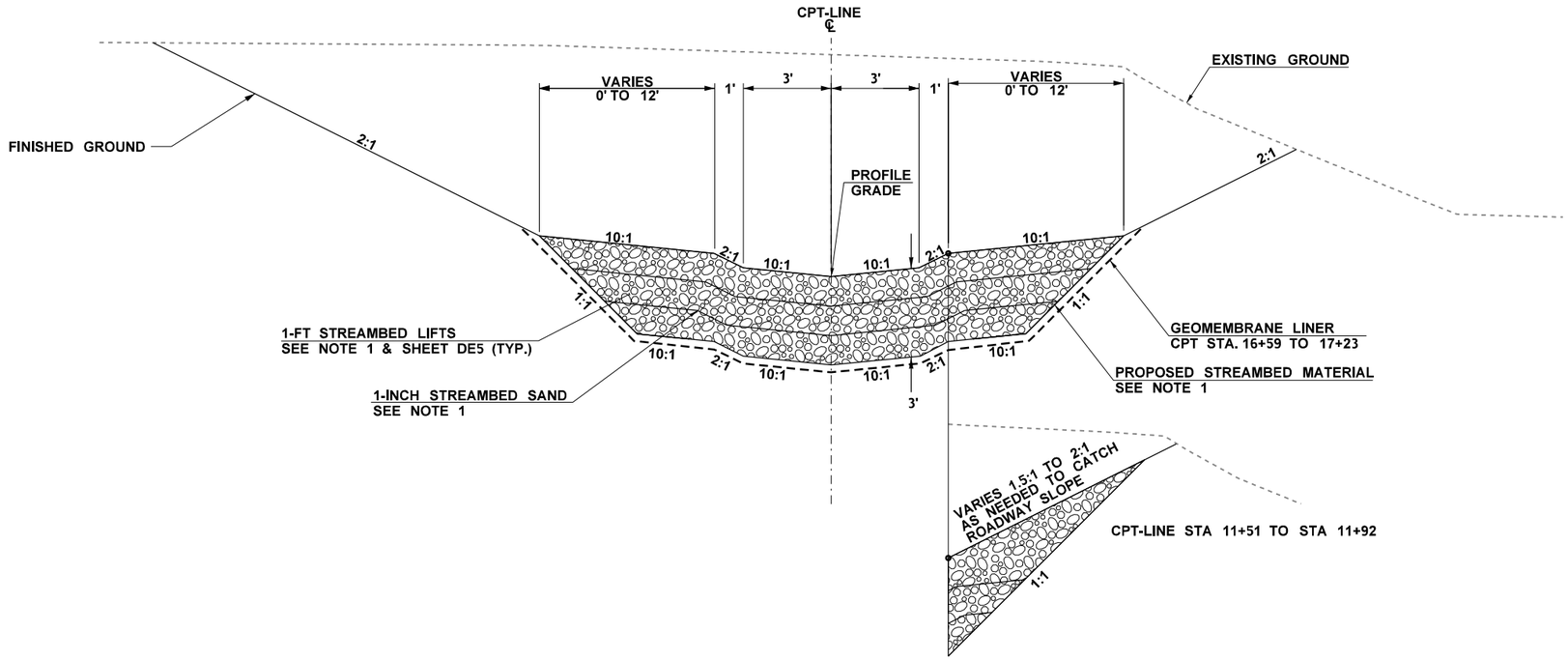
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM PROFILE

Plot 1

PLAN REF. NO. STP1

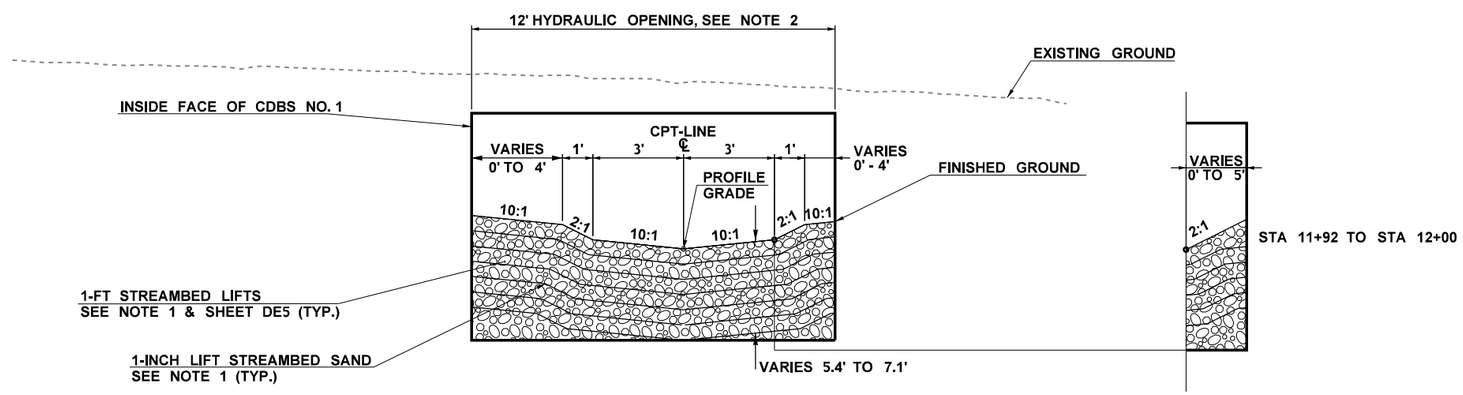
SHEET 22 OF 48 SHEETS



UNNAMED TRIBUTARY TO CARPENTER CREEK TYPICAL STREAM SECTION A

NOT TO SCALE
CPT STA 11+51 TO STA 11+92 RT / STA 12+04 LT AND STA 12+52 LT / STA 12+42 RT TO STA 14+19
TRANSITION TO EXISTING CPT STA 11+51 TO STA 11+75
TRANSITION TO EXISTING CPT STA 14+07 TO STA 14+19

CPT STA 15+57 TO STA 18+58
TRANSITION TO EXISTING CPT STA 15+57 TO STA 15+70
TRANSITION TO EXISTING CPT STA 18+34 TO STA 18+58



NOTE:

1. SEE SPECIAL PROVISION "WATER CROSSINGS".
2. HYDRAULIC OPENING AS MEASURED PERPENDICULAR TO BEARING OF CULVERT.

UNNAMED TRIBUTARY TO CARPENTER CREEK TYPICAL STREAM SECTION B

NOT TO SCALE
CPT STA 11+92 RT / STA 12+04 LT TO
CPT STA 12+52 LT / STA 12+42 RT

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CHECKED BY	T. NABOURS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

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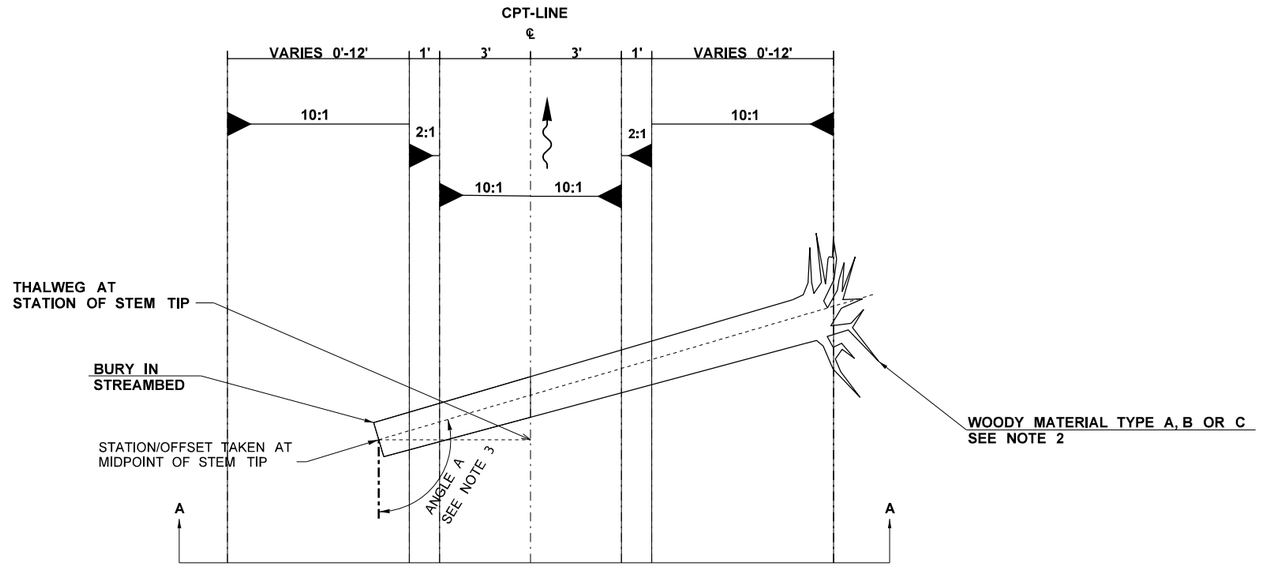
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

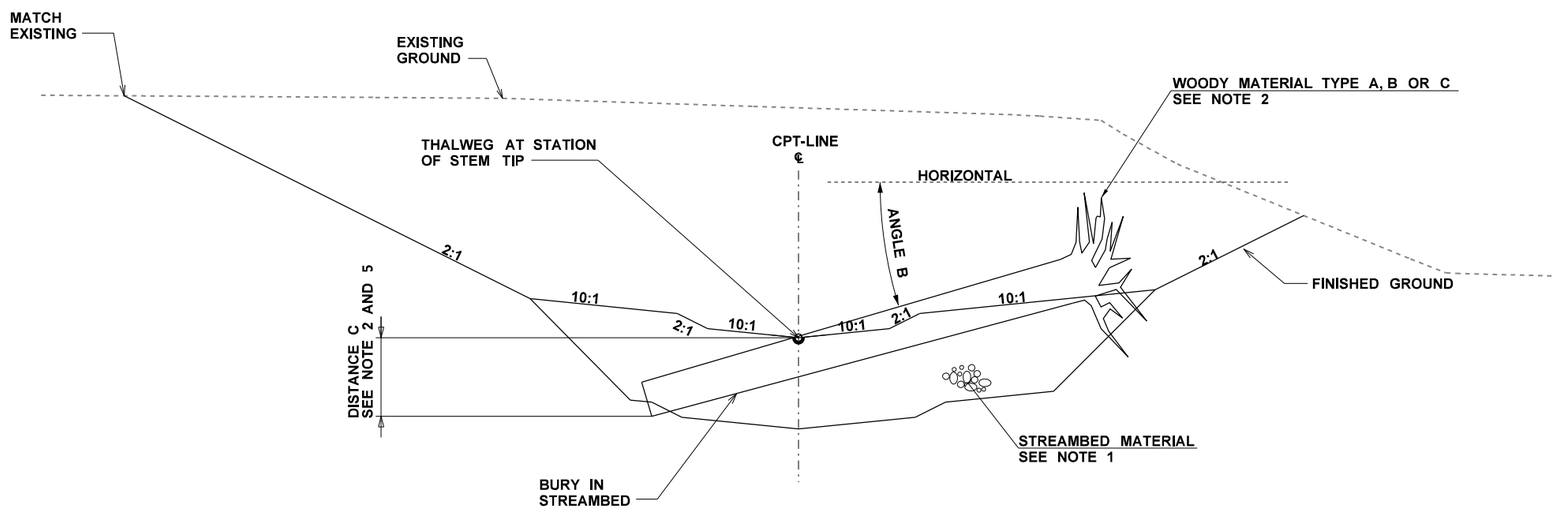
STREAM DETAILS

Plot 2
PLAN REF NO
DE1
SHEET 23 OF 48 SHEETS



WOODY MATERIAL TYPE A, B OR C - STEM TIP IN CHANNEL

(NOT TO SCALE)



SECTION A-A
(NOT TO SCALE)

NOTES:

1. SEE SPECIAL PROVISIONS "WATER CROSSINGS."
2. SEE WOODY MATERIAL TABLE ON SHEET CR3 FOR LOG TYPE, ANGLE A, ANGLE B, AND DISTANCE C.
3. ANGLE "A" IS MEASURED COUNTER CLOCKWISE FROM THE STREAM CENTERLINE TO THE LOG CENTERLINE AT THE STEM TIP.
4. ANGLE "B" IS MEASURED FROM HORIZONTAL AS SHOWN ON SHEETS DE2 AND DE3. A POSITIVE ANGLE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM MAIN CHANNEL IS HIGHER THAN THE LOG END NEAREST TO THE MAIN CHANNEL. A NEGATIVE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM THE MAIN CHANNEL IS LOWER THAN THE LOG END NEAREST TO THE MAIN CHANNEL.
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DESIGNED BY	A. MILLER				CONTRACT NO.		LOCATION NO.
ENTERED BY	S. CROSIER						
CHECKED BY	T. NABOURS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

JULIE HEILMAN STATE OF WASHINGTON 41819 REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX DATE

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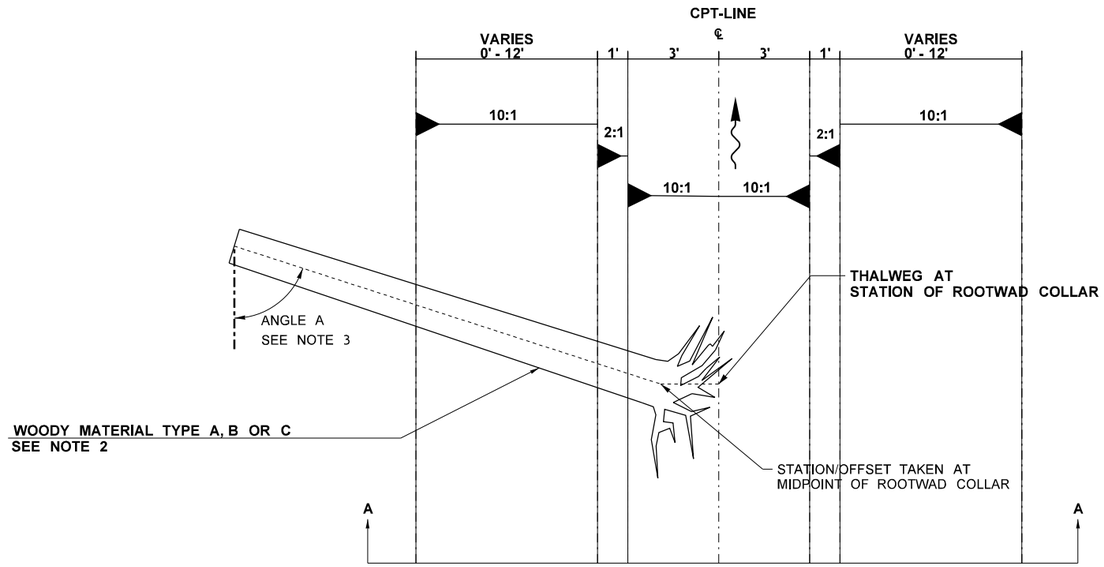
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM DETAILS

Plot 3

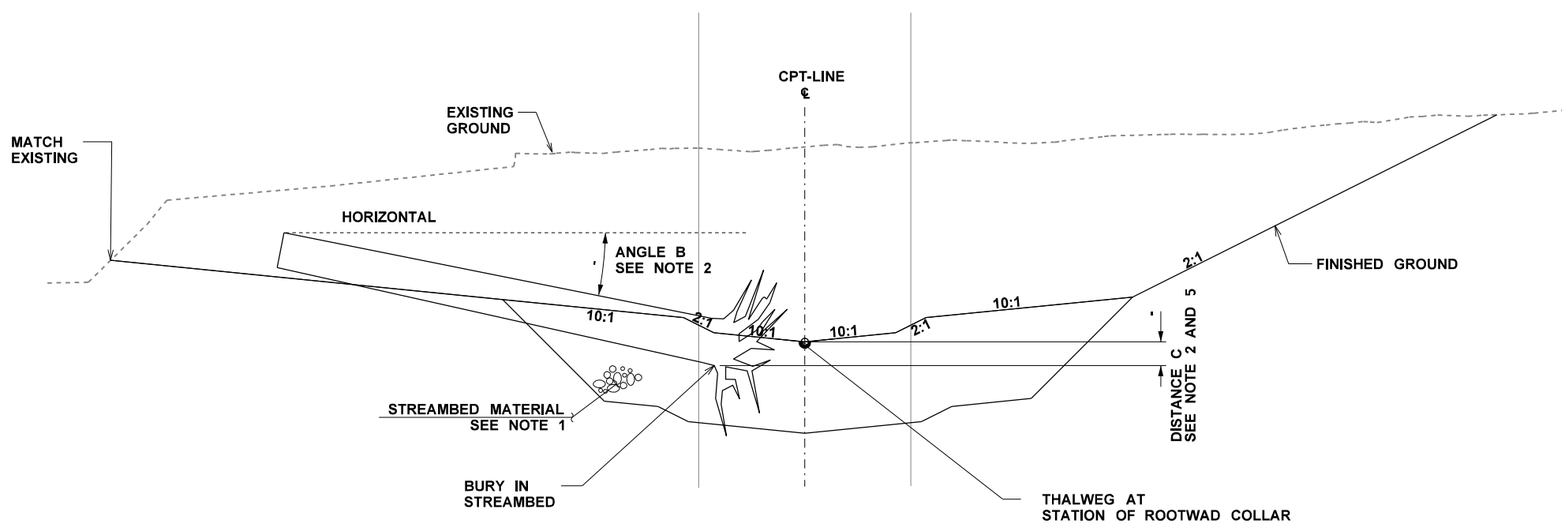
PLAN REF NO DE2

SHEET 24 OF 48 SHEETS



WOODY MATERIAL TYPE A, B OR C - ROOTWAD IN CHANNEL

(NOT TO SCALE)



SECTION A-A
(NOT TO SCALE)

NOTES:

1. SEE SPECIAL PROVISIONS "WATER CROSSINGS."
2. SEE WOODY MATERIAL TABLE ON SHEET CR3 FOR LOG TYPE, ANGLE A, ANGLE B, AND DISTANCE C.
3. ANGLE "A" IS MEASURED COUNTER CLOCKWISE FROM THE STREAM CENTERLINE TO THE LOG CENTERLINE AT THE STEM TIP.
4. ANGLE "B" IS MEASURED FROM HORIZONTAL AS SHOWN ON SHEETS DE2 AND DE3. A POSITIVE ANGLE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM MAIN CHANNEL IS HIGHER THAN THE LOG END NEAREST TO THE MAIN CHANNEL. A NEGATIVE "B" VALUE INDICATES THAT THE ELEVATION OF THE LOG END FURTHEST FROM THE MAIN CHANNEL IS LOWER THAN THE LOG END NEAREST TO THE MAIN CHANNEL.
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ENTERED BY	S. CROSIER					
CHECKED BY	T. NABOURS				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S. BEIER					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

P.E. STAMP BOX DATE

JULIE HEILMAN — STATE OF WASHINGTON — 41819 — REGISTERED PROFESSIONAL ENGINEER

P.E. STAMP BOX DATE

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UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM DETAILS

Plot 4

PLAN REF NO DE3

SHEET 25 OF 48 SHEETS

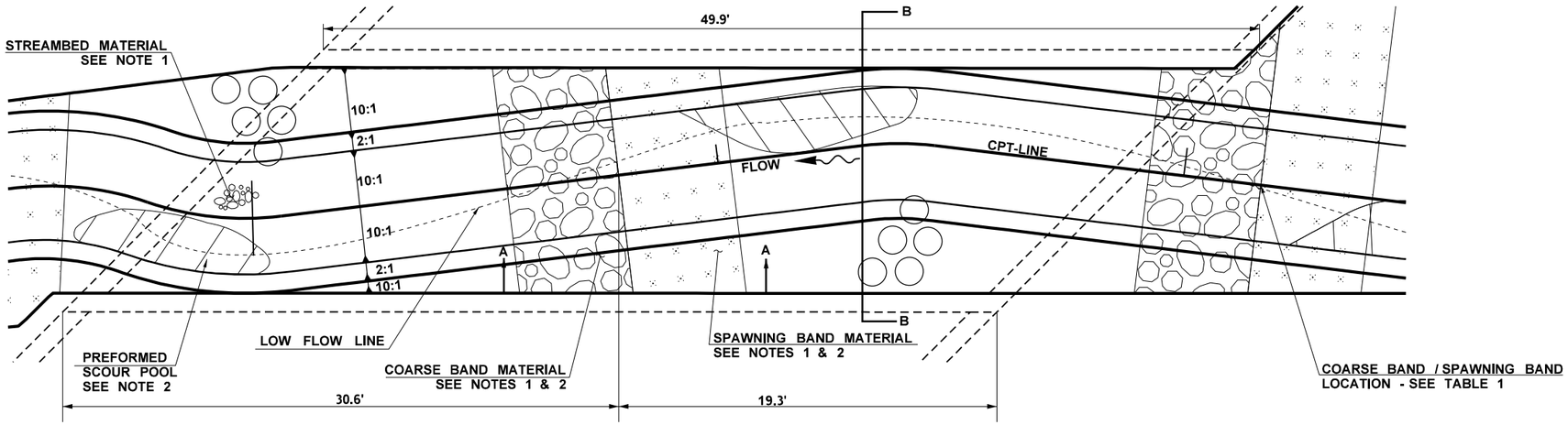
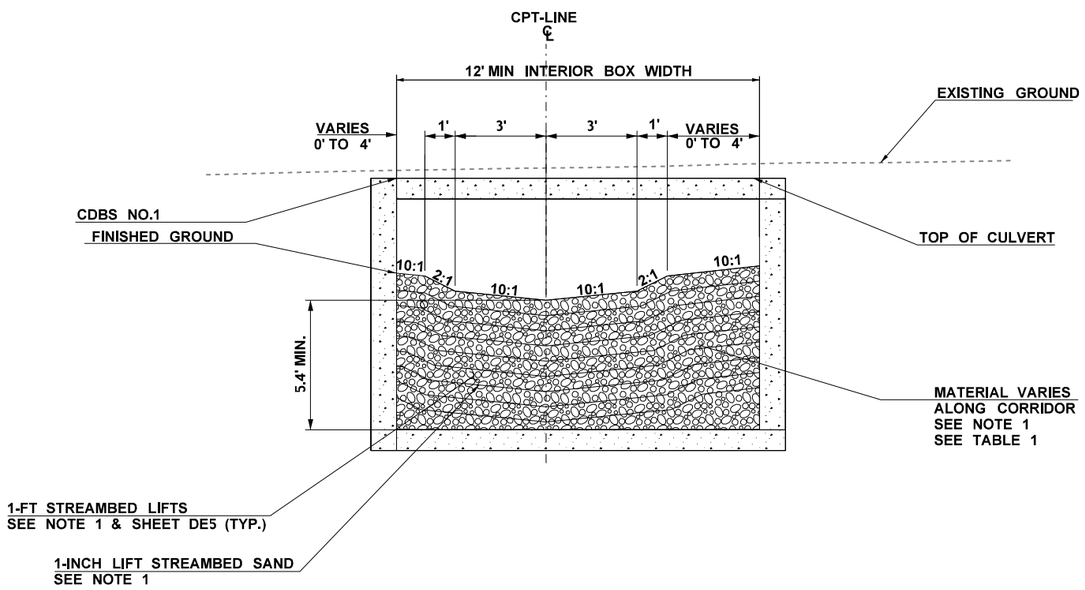
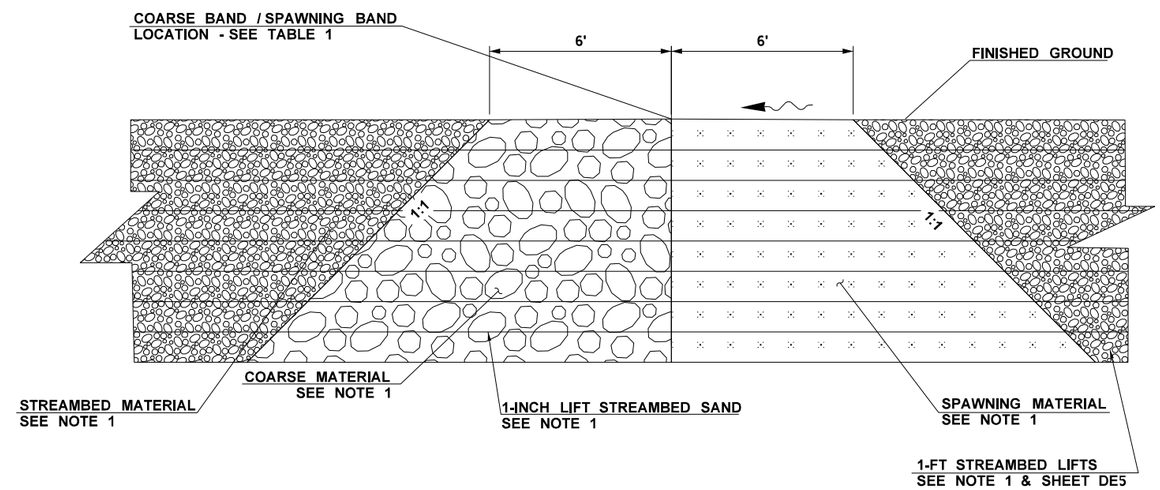


TABLE 1:
COARSE BAND / SPAWNING BAND LOCATION
CPT-LINE 11+83.66
CPT-LINE 12+19.66
CPT-LINE 12+54.13
CPT-LINE 12+91.10
CPT-LINE 13+29.76
CPT-LINE 13+66.88
CPT-LINE 14+06.91
CPT-LINE 16+15.10
CPT-LINE 16+52.35
CPT-LINE 16+89.60
CPT-LINE 17+26.84
CPT-LINE 17+64.09
CPT-LINE 18+10.47



UNNAMED TRIBUTARY TO CARPENTER CREEK
TYPICAL CULVERT SECTION

NOT TO SCALE
SECTION B-B



COARSE BAND AND SPAWNING BAND DETAIL

SECTION A-A
NOT TO SCALE

NOTE:

1. SEE SPECIAL PROVISIONS "WATER CROSSINGS". SEE SHEET DE5 FOR STREAMBED MATERIAL PLACEMENT DETAIL
2. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES (WOODY MATERIAL, COARSE BANDS, SPAWNING BANDS, LOW FLOW CHANNEL AND SCOUR POOLS) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.

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DESIGNED BY	A. MILLER
ENTERED BY	S. CROSIER
CHECKED BY	T. NABOURS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

JULIE HEILMAN — STATE OF WASHINGTON — 41819 — REGISTERED PROFESSIONAL ENGINEER
DATE
P.E. STAMP BOX

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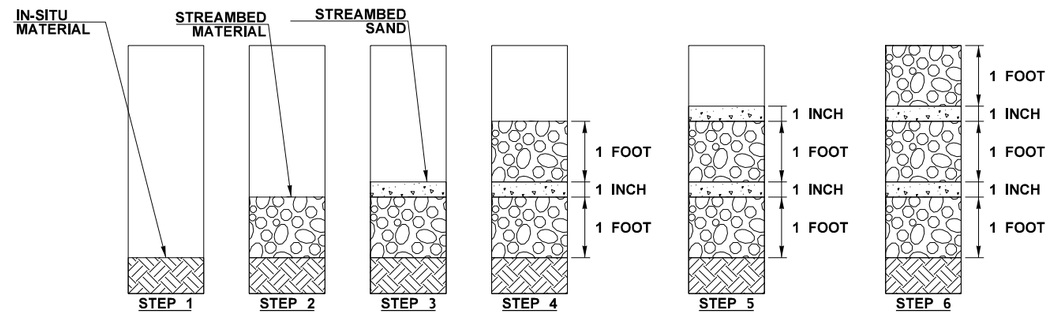
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

STREAM DETAILS

Plot 5
PLAN REF NO DE4
SHEET 26 OF 48 SHEETS



STREAMBED CHANNEL PREPARATION

STEP 1

EXCAVATE CHANNEL TO ACCOMODATE STREAMBED MATERIAL.

STEP 2

PLACE 1 FOOT LIFT OF STREAMBED MATERIAL.

STEP 3

PLACE 1 INCH OF STREAMBED SAND UNIFORMLY OVER STREAMBED MATERIAL. APPLY WATER TO STREAMBED SAND. SEE DETAIL NOTE 2.

STEP 4

(REPEAT STEP 2), SEE NOTE 3

STEP 5

(REPEAT STEP 3), SEE NOTE 3

STEP 6

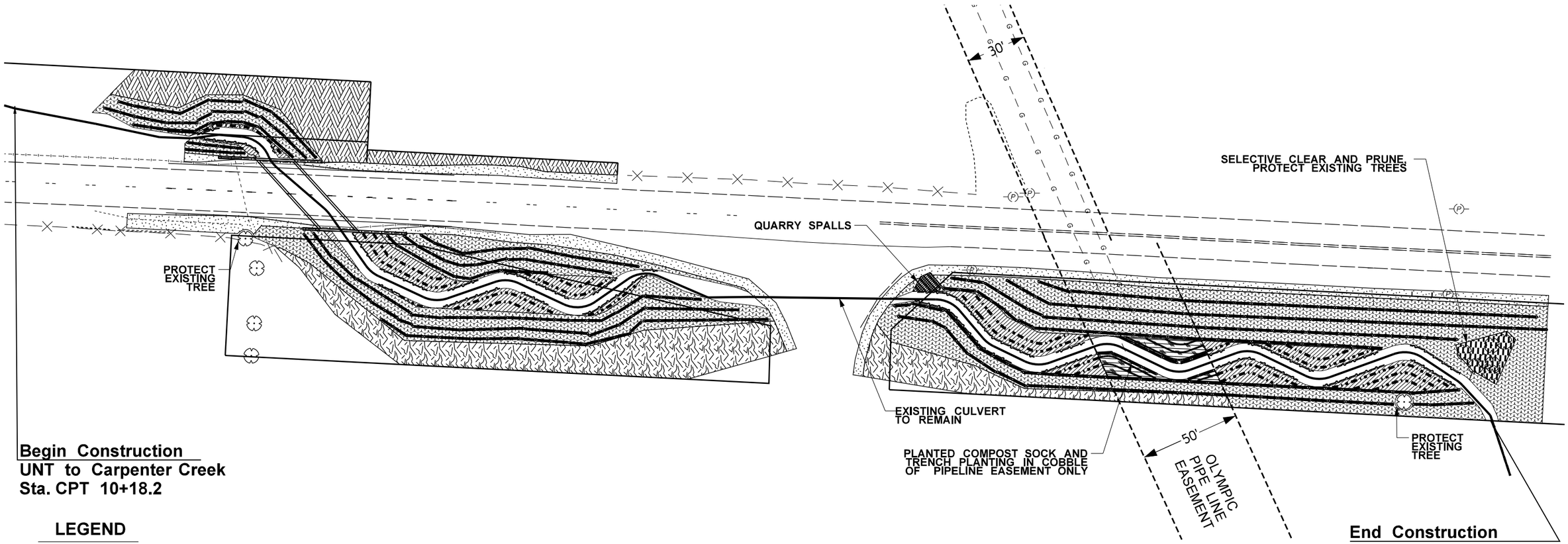
PLACE REMAINING 1 FOOT LIFT OF STREAMBED MATERIAL GRADE AS NOTED BELOW.

STREAMBED MATERIAL PLACEMENT - SEQUENCE OF WORK

NOT TO SCALE

DETAIL NOTES:

1. SLASH FROM THE TREES SHALL BE INCORPORATED INTO STREAMBED MIX AS DIRECTED BY ENGINEER.
2. APPLY WATER TO STREAMBED SAND LAYERS TO FACILITATE FILLING INTERSTITIAL VOIDS. SEE SPECIAL PROVISIONS "WATER CROSSINGS" FOR MORE DETAILS.
3. STEPS 2 AND 3 SHALL BE REPEATED AS NECESSARY FOR PLACEMENT OF STREAMBED MATERIAL, COARSE BANDS, AND SPAWNING BANDS TO FULL DEPTH AS DEPICTED ON SHEET STP1.



LEGEND

- WSDOT RIGHT OF WAY
- CONSTRUCTION EASEMENT
- EXISTING EDGE OF PAVEMENT
- SAVE AND PROTECT EXISTING TREES
- EXISTING TREE TO BE REMOVED
- EXISTING FENCE
- HVS — HVS — HIGH VISIBILITY SILT FENCE
- HVF — HVF — HIGH VISIBILITY FENCE
- CG — CG - CLEAR AND GRUB LINE
- G — G — GAS LINE
- SCP — SELECTIVE CLEARING AND PRUNING
- WB EXISTING WETLAND BOUNDARY

PLANTING AREA SOIL PREPARATION		
SYMBOL	ITEM	QUANTITY
	COMPOST SOCK FOR SOIL STABILIZATION SEE NOTE #4	3025 LF
SYMBOL	ITEM	QUANTITY
	SOIL AMENDMENT - 3 IN. DEPTH	268 SY
	BARK OR WOOD CHIP MULCH - 3 IN. DEPTH	268 SY
SELECTIVE CLEAR AND PRUNE AREAS (SEE SPECIAL PROVISIONS)		
SYMBOL	ITEM	QUANTITY
	BARK OR WOOD CHIP MULCH RINGS - 3 IN. DEPTH	6 EA
	SOIL AMENDMENT - 3 IN. DEPTH	6 EA
SYMBOL	ITEM	QUANTITY
SEEDING, FERTILIZING AND MULCHING		
	FINE COMPOST - 3 IN. DEPTH (A) DAMP NATIVE SEED MIX	363 SY
	FINE COMPOST - 3 IN. DEPTH (B) EROSION CONTROL SEED MIX	469 SY
	FINE COMPOST - 3 IN. DEPTH (C) WET NATIVE SEED MIX	630 SY

RESTORATION BIOENGINEERING		
SYMBOL	ITEM	QUANTITY
BRUSH LAYER LIVE BRANCHES PER 8-02.3(15)C - 4' O.C.		
	RED-OSIER DOGWOOD	868 LF
	SITKA WILLOW	
SYMBOL	ITEM	QUANTITY
LIVE FASCINES PER 8-02.3(15)A		
	SITKA WILLOW	632 LF
	SALMONBERRY	
SYMBOL	ITEM	QUANTITY
TRENCH PLANTING - PIPE LINE EASMENT ONLY - 18" O.C.		158 LF
	DOUGLAS SPIRAEA	70
	SALMONBERRY	70
	PACIFIC NINEBARK	70
SYMBOL	ITEM	QUANTITY
PLANTED COMPOST SOCK - PIPE LINE EASMENTS ONLY - 18" O.C.		
	SLOUGH SEDGE	63
	SMALL FRUITED BULRUSH	63

SOIL PREPARATION NOTES:

1. PRESERVE AND PROTECT EXISTING DESIRABLE VEGETATION IN ACCORDANCE WITH SECTION 1-07.16(2). NO DISTURBANCE TO ANY VEGETATION ALONG THE PERIMETER OF THE SITE.
2. SEED ALL DISTURBED AREAS NOT OTHERWISE SHOWN AS PLANTED OR SEEDED IN THE PLANTING PLANS, PER SECTION 8-01.3(2).
3. DO NOT INCORPORATE SOIL AMENDMENT UNDER DRIP LINE OF EXISTING TREES TO BE SAVED AND PROTECTED.
4. INSTALL COMPOST SOCKS ALONG CONTOURS IN LOCATIONS AS SHOWN. LAYOUT OF COMPOST SOCKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO STAKING. SEE DETAIL ON SHEET SPPD4 AND STANDARD PLAN I-30.60-01.
5. SEE SHEETS SPPD1 - SPPD5 FOR BRUSH LAYER, COMPOST SOCK AND LIVE FASCINE DETAILS.
6. LIVE FASCINES TO BE FIT TO ACCOMODATE LWM WHERE THEY OVERLAP AND ARE TO BE PLACED AT OR SLIGHTLY ABOVE THE ORDINARY HIGH WATER MARK (OHWM), LOCATION TO BE FIELD VERIFIED BY ENGINEER PRIOR TO PLANTING.

N

0 25 50
SCALE IN FEET

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DESIGNED BY	H. MACKAY
ENTERED BY	H. MACKAY
CHECKED BY	L. JUNGBLUTH
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

STATE OF WASHINGTON
LINDSEY A. JUNGBLUTH
No 1483 EXP 11/05/2023
LICENSED LANDSCAPE ARCHITECT

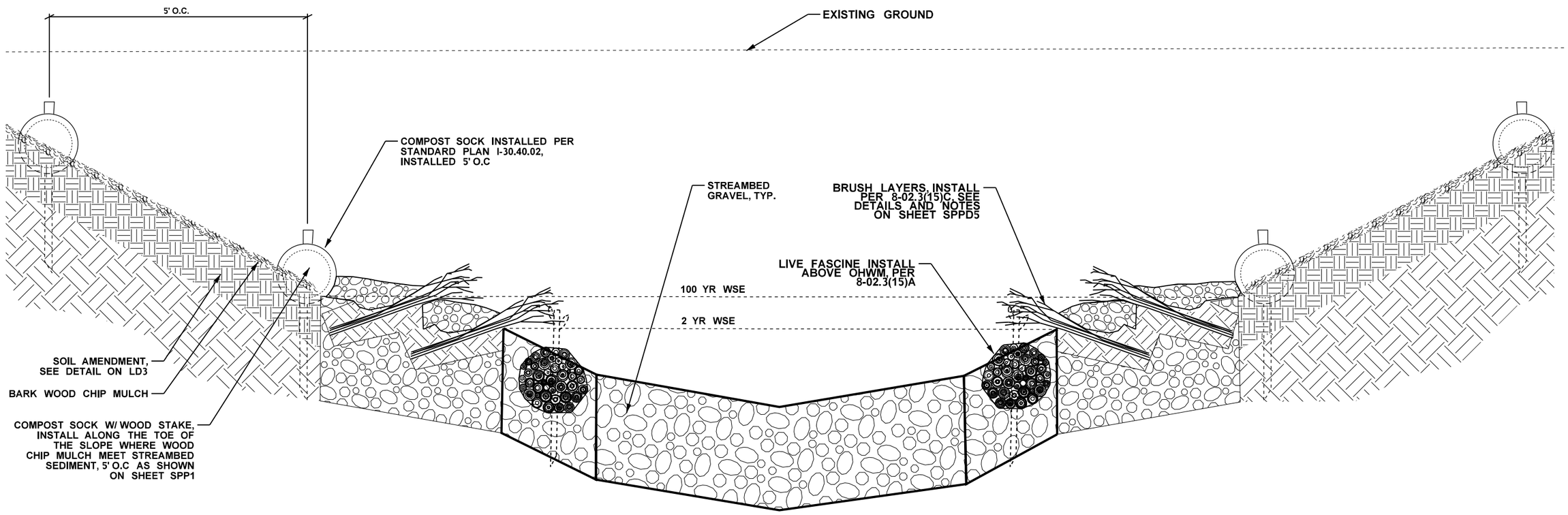
SEE CT1

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL PREPARATION PLAN

Plot 2
SPP1
SHEET 28 OF 48 SHEETS



SECTION A - TYPICAL STREAM EMBANKMENT RESTORATION

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CHECKED BY	L.JUNGBLUTH
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH NO. 1483 EXP. 11/05/2022 LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

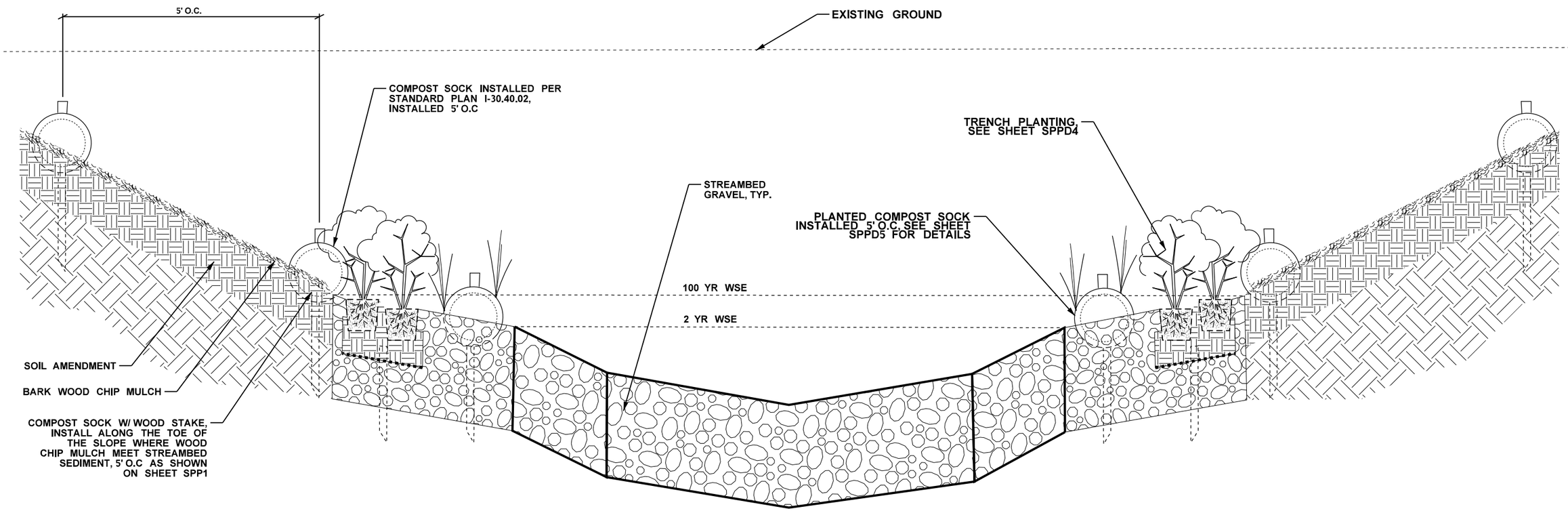
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 3

SPPD1

SHEET 29 OF 48 SHEETS



SECTION B - PIPELINE EASEMENT STREAM EMBANKMENT RESTORATION

FILE NAME	T:\412006\XL6097 SR 534 Unnamed Trib to Carpenter Ck FP\CAD\ContractPlans\XL6097_PS_LS.dgn						
TIME	8:23:28 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/5/2022						
PLOTTED BY	ayalap						
DESIGNED BY	H. MACKAY				JOB NUMBER 22A021		
ENTERED BY	H.MACKAY						
CHECKED BY	L. JUNGBLUTH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH NO. 1483 EXP. 11/05/2022 LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 4

SPPD2

SHEET 30 OF 48 SHEETS

PLANT MATERIAL LIST

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	ROOT CONDITION	REMARKS
BRUSH LAYER LIVE BRANCHES					
RED-OSIER DOGWOOD***	CORNUS STOLONIFERA	50%	60 IN HT.	LIVE CUTTING	9-14.7(1), LIVE CUTTING
SITKA WILLOW	SALIX SITCHENSIS	50%	60 IN HT.	LIVE CUTTING	9-14.7(1), LIVE CUTTING
LIVE FASCINES					
SITKA WILLOW	SALIX SITCHENSIS	70%		12" DIAM. FASCINE	SECTION 8-02.3(15)A, 9-14.7(1), LIVE CUTTING
SALMONBERRY***	RUBUS SPECTABILIS	30%		12" DIAM. FASCINE	SECTION 8-02.3(15)A, 9-14.7(1), LIVE CUTTING
PLANTED COMPOST SOCK					
SLOUGH SEDGE**	CAREX OBNUPTA	63		3-4" DIAM. PLUG	SECTION 9-14.7(2), FULL CONTAINER
SMALL FRUITED BULRUSH*	ATHYRIUM FILIX-FEMINA	63		3-4" DIAM. PLUG	SECTION 9-14.7(2), FULL CONTAINER
TRENCH PLANTING					
SALMONBERRY***	RUBUS SPECTABILIS	70	12 IN HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE CANE MIN.
DOUGLAS SPIREA**	SPIRAEA DOUGLASII	70	12 IN HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
PACIFIC NINEBARK***	PYSOCARPUS CAPITATUS	70	12 IN HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.

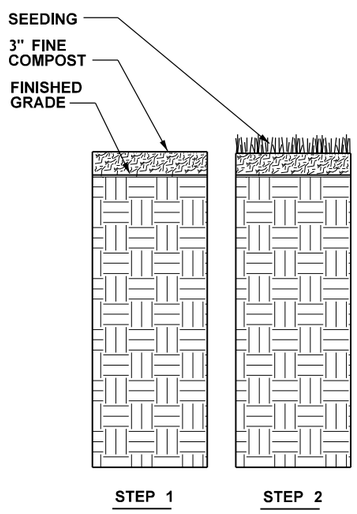
PLANT MATERIAL SETBACK CHART

THIS CHART SUPPLEMENTS SECTION 8.02.3(7) OF THE STANDARD SPECIFICATIONS. SETBACKS APPLY UNLESS OTHERWISE ADJUSTED BY ENGINEER DURING PLANT STAKING OR LAYOUT. DISTANCES BELOW ARE TO THE STEM OR TRUNK OF THE PLANT BEING INSTALLED.

	GUARDRAIL BARRIER	EDGE OF ROADWAY	EXISTING TREE TRUNK	OVERHEAD POWER	DRAINAGE STRUCTURE	CULVERT WALLS
GROUNDCOVER *	5'	5'	5'	-	5'	3'
SMALL SHRUB **	5'	10'	5'	-	5'	5'
TALL SHRUB ***	10'	15'	10'	10'	10'	10'
DECIDUOUS TREE	15'	20'	15'	20'	10'	15'
EVERGREEN TREE	15'	20'	15'	20'	10'	15'

GENERAL NOTES:

1. IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY.
2. SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK.



PLANTING AREA PREPARATION (SEE SPECIAL PROVISIONS)

STEP 1

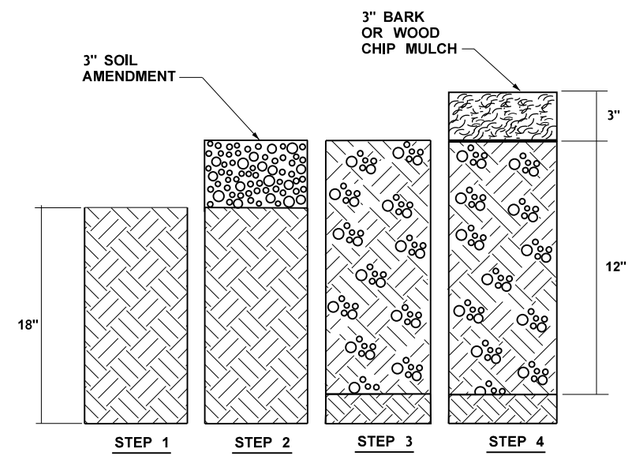
PLACE 3" FINE COMPOST ACCORDING TO THE PLANS.

STEP 2

INSTALL SEEDING, FERTILIZING AND MULCHING ACCORDING TO THE PLANS AND SPECIAL PROVISIONS.

SEEDING AREA SOIL PREPARATION

SECTION VIEW NOT TO SCALE



PLANTING AREA PREPARATION (SEE SECTION 8-02.3(5) IN THE SPECIAL PROVISIONS)

STEP 1

DECOMPACT SOIL TO A DEPTH OF 18" ACCORDING TO SECTION 8-02.3(5)C

STEP 2

PLACE 3" SOIL AMENDMENT ACCORDING TO SECTION 8-02.3(6)A

STEP 3

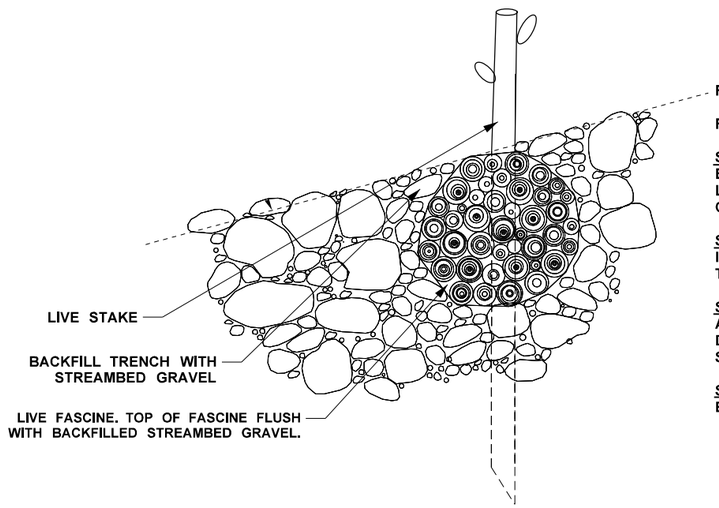
INCORPORATE SOIL AMENDMENT TO 12" DEPTH ACCORDING TO SECTION 8-02.3(5)C, SOIL AMENDMENT,

STEP 4

INSTALL BARK OR WOOD CHIP MULCH 3" DEEP ACCORDING TO 9-14.5(3).

PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW NOT TO SCALE



REFERENCE STANDARD PLAN - LIVE FASCINES

FASCINE INSTALLATION - SEQUENCE OF WORK

STEP 1
EXCAVATE TRENCH DEEP ENOUGH TO BURY LIVE FASCINE FLUSH WITH STREAMBED GRAVEL.

STEP 2
INSTALL FASCINE IN THE BOTTOM OF THE TRENCH.

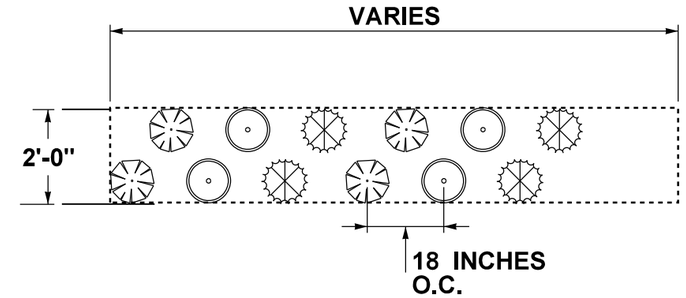
STEP 3
ANCHOR FASCINES WITH 3' LONG, LIVE STAKES, DRIVEN A MINIMUM OF 2' INTO THE GROUND. SPACED 3' O.C. MIN.

STEP 4
BACKFILL TRENCH WITH STREAMBED GRAVEL.

LIVE FASCINE - INSTALLATION AND SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



TRENCH PLANTING PLAN

NOT TO SCALE

TRENCH INSTALLATION AND PLANTING NOTES:

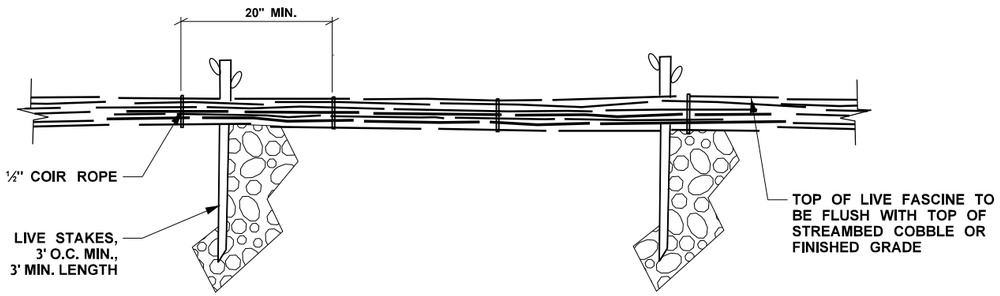
1. WHERE PLANT MATERIAL IS TO BE INSTALLED, EXCAVATE TRENCH MIN. 24 INCHES WIDE AND 15 INCHES DEEP.

2. LINE TRENCH WITH BIODEGRADEABLE EROSION CONTROL BLANKET AND STAKE EVERY 3 FEET WITH 2 x 4 x 24 INCHES WOOD STAKES.

3. PLACE MIN. 12 INCHES OF TOPSOIL TYPE A.

4. INSTALL PLANTS, SEE SPPD3 FOR SPECIES AND SIZE.

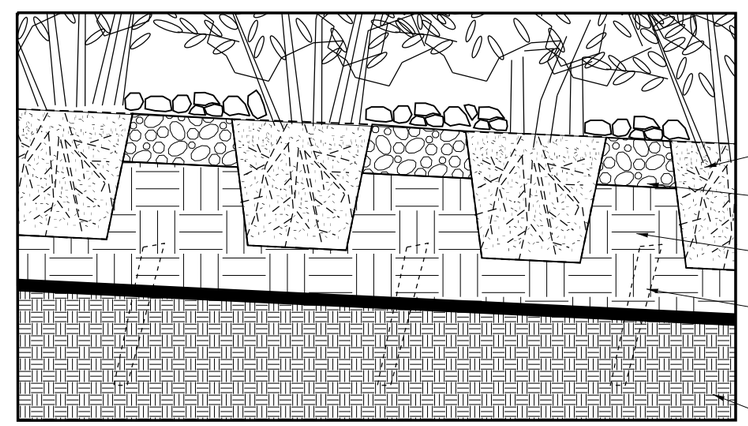
5. INSTALL 3 INCHES OF STREAMBED MATERIAL.



LIVE FASCINE - ELEVATION

SECTION VIEW

NOT TO SCALE



CONTAINER PLANT

3 INCHES STREAMBED MATERIAL

12 INCHES MINIMUM TOPSOIL TYPE A

LINE TRENCH WITH BIODEGRADEABLE EROSION CONTROL BLANKET, STAKE EVERY 3 FEET WITH 2X4X24" WOOD STAKES.

EXISTING SUBGRADE

TRENCH PLANTING SECTION

NOT TO SCALE

FILE NAME	T:\412006\XL6097 SR 534 Unnamed Trib to Carpenter Ck FP\CAD\ContractPlans\XL6097_PS_LS.dgn						
TIME	8:23:56 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/5/2022						
PLOTTED BY	ayalap				JOB NUMBER 22A021		
DESIGNED BY	H. MACKAY						
ENTERED BY	H. MACKAY						
CHECKED BY	L.JUNGBLUTH				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH No. 1483 EXP. 11/05/2022 LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

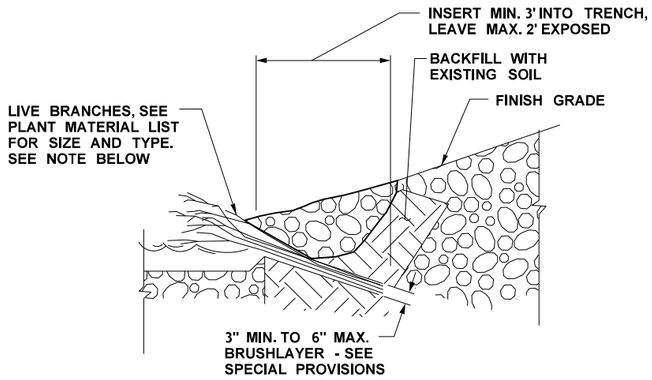
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 6

SPPD4

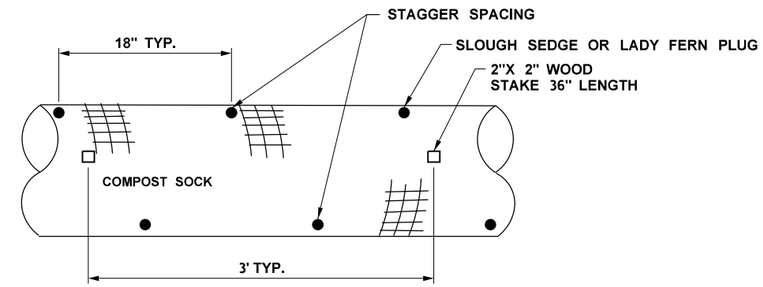
SHEET 32 OF 48 SHEETS



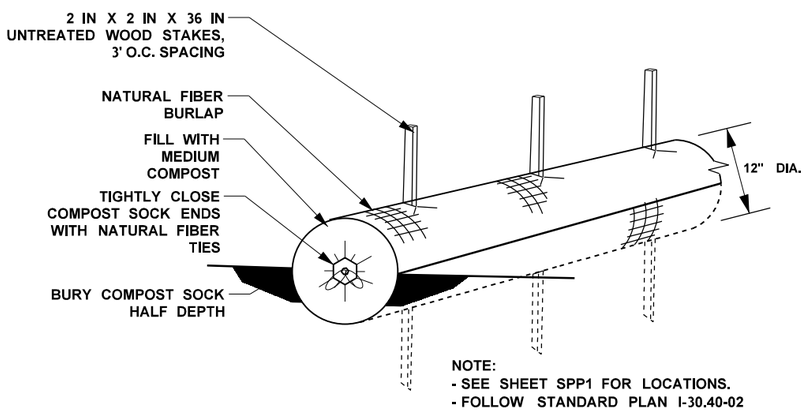
NOTE:
INSTALL PER 8-02.3(15)C. INSTALL LIVE BRANCHES IN TRENCH IN CONTINUOUS ROW AS SHOWN ON PLANS.

BRUSHLAYER INSTALLATION

NOT TO SCALE



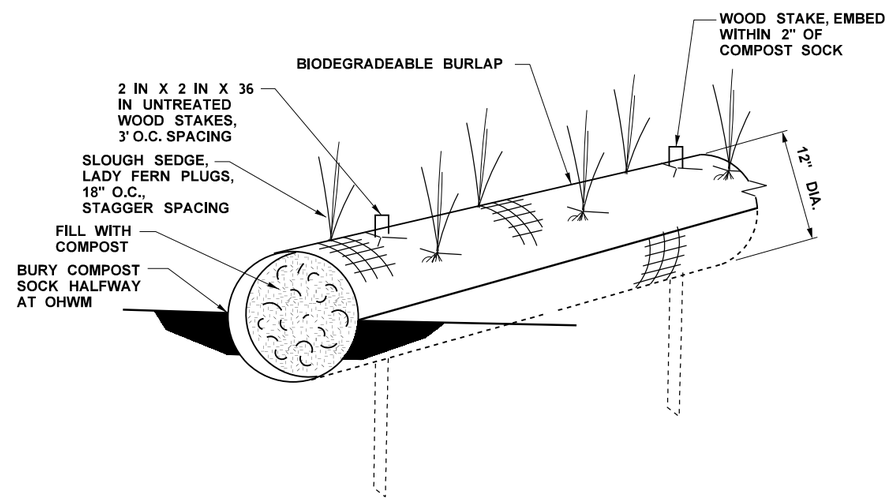
PLAN VIEW



NOTE:
- SEE SHEET SPP1 FOR LOCATIONS.
- FOLLOW STANDARD PLAN I-30.40-02

COMPOST SOCK FOR SOIL STABILIZATION

NOT TO SCALE



PLANTED COMPOST SOCK

NOT TO SCALE

FILE NAME	T:\412006\XL6097 SR 534 Unnamed Trib to Carpenter Ck FP\CAD\ContractPlans\XL6097_PS_LS.dgn
TIME	1:13:25 PM
DATE	10/5/2022
PLOTTED BY	ayalap
DESIGNED BY	H. MACKAY
ENTERED BY	H. MACKAY
CHECKED BY	L.JUNGBLUTH
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

STATE OF WASHINGTON · LINDSEY A. JUNGBLUTH · NO 1483 · EXP 11/05/2023 · LICENSED LANDSCAPE ARCHITECT

SEE CT1

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

SOIL & BIOENGINEERING DETAILS

Plot 7
PLAN REF NO SPPD5
SHEET 33 OF 48 SHEETS

QUANTITY TABULATION

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

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

CODE	LOCATION ↓ \ UNIT OF MEASURE →	PLANING BITUMINOUS PAVEMENT		BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	BEAM GUARDRAIL TYPE 31	BEAM GUARDRAIL TRANSITION SECTION TYPE 24	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL		PAINT LINE	PLASTIC DRAINAGE MARKING	RAISED PAVEMENT MARKER TYPE 2						SEE GENERAL NOTES
				L.F.	L.F.	EACH	EACH		L.F.	EACH	HUND						
PV1-1	C 114+52.5 (14.1' LT) TO C 114+89.4 (15.0' LT)			25		1											1, 2, 3, 5, 6
PV1-2	C 115+09.1 (15.0' LT) TO C 116+06.1 (14.1' LT)				37.5	1	1										1, 2, 3, 4, 6
PV1-3	C 114+43.0 (12.9' RT) TO C 115+19.2 (15.0' RT)				25	1	1										1, 2, 3, 4, 6, 7
PV1-4	C 115+39.0 (15.0' RT) TO C 116+11.0 (14.6' RT)				12.5	1	1										1, 2, 3, 4, 6
PV1-5	C 114+44 (9.9' LT) TO C 115+87 (10.1' LT)								143								8
PV1-6	C 114+44 (0.4' LT) TO C 115+87 (0.4' LT)								143		0.03						8, 9
PV1-7	C 114+44 (10.1' RT) TO C 115+87 (9.9' RT)								143								8
PV1-8	C 115+04.2 (10.0' LT)									1							10
PV1-9	C 115+24.0 (10.0' RT)									1							10
PV1-10	C 114+44 TO C 114+69	69															
PV1-11	C 115+64 TO C 115+87	71															
	SHEET TOTAL	140		25	75	4	3		429	2	0.03						
	PROJECT TOTAL	140		25	75	4	3		429	2	0.03						

GENERAL NOTES:

1. SEE STANDARD PLAN C-20.10, BEAM GUARDRAIL TYPE 31.
2. SEE STANDARD PLAN C-20.14 BEAM GUARDRAIL (TYPE 31) PLACEMENT. BEAM GUARDRAIL PLACEMENT CASE 2-31. PLACE FACE OF GUARDRAIL AT EDGE OF PAVED SHOULDER.
3. SEE STANDARD PLAN C-25.30, BEAM GUARDRAIL (TYPE 31) TRANSITION SECTION TYPE 24 (POSTED SPEED 45MPH AND BELOW).
4. SEE STANDARD PLAN PLAN C-22.45, BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (POSTED SPEED 45MPH AND BELOW).
5. SEE STANDARD PLAN C-25.80, BEAM GUARDRAIL TYPE 31 TO BEAM GUARDRAIL TYPE 1 ADAPTOR.
6. SEE STANDARD PLAN C-24.10. TYPE D CONNECTION.
7. TERMINAL PAD TO BE INSTALLED PER MANUFACTURER INSTALLATION MANUAL - SEE MAX-TENSION TL-2 INSTALLATION MANUAL FROM LINDSAY TRANSPORATION SOLUTIONS.
8. SEE STANDARD PLAN M-20.10, LONGITUDINAL MARKING PATTERNS.
9. SEE STANDARD PLAN M-20.30, LONGITUDINAL MARKING SUPPLEMENT WITH RAISED PAVEMENT MARKERS.
10. SEE STANDARD PLAN M-24.60, SYMBOL MARKINGS MISCELLANEOUS.

DESIGNED BY	D. HARRIS					REGION NO.	STATE
ENTERED BY	D. HARRIS					10	WASH
CHECKED BY	A. WILLIAMS					JOB NUMBER	
PROJ. ENGR.	S. BEIER					22A021	
REGION ADM.	B. NIELSEN					CONTRACT NO.	
		DATE	DATE	REVISION	BY		

FED. AID PROJ. NO.

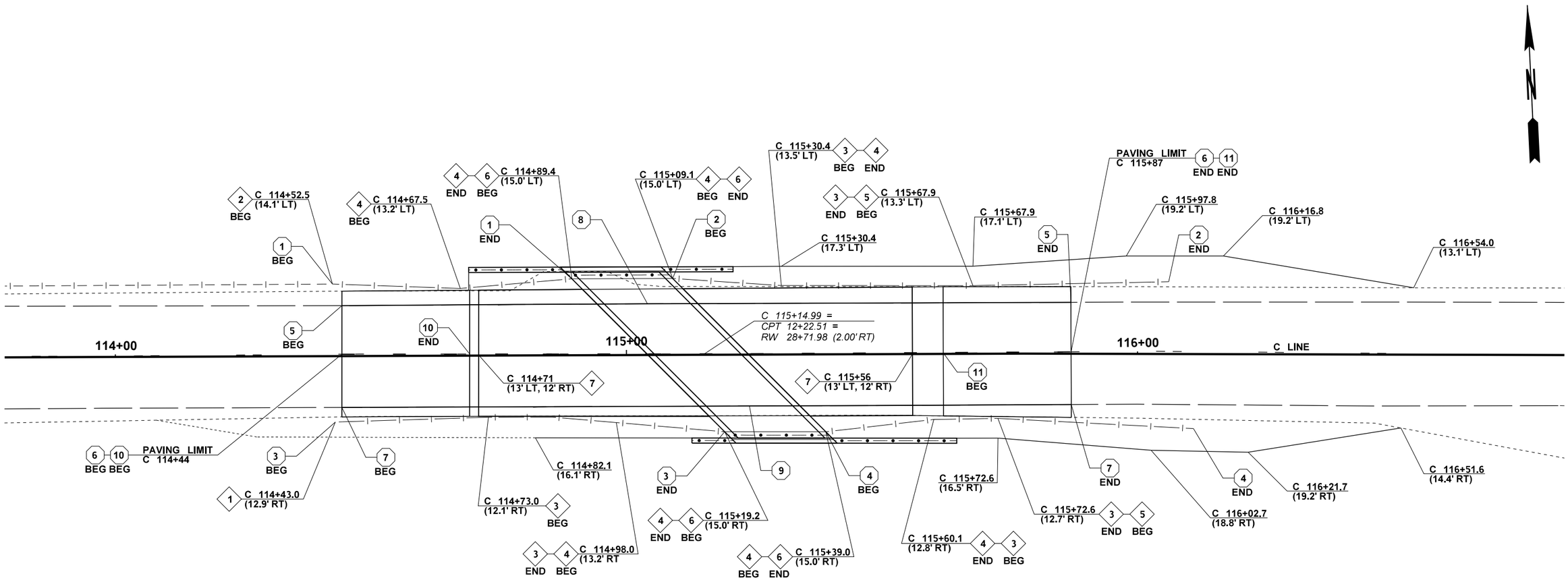
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

QUANTITY TABULATION

QT1

SHEET 34 OF 48 SHEETS



CONSTRUCTION NOTES

1. BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (MAX-TENSION TL-2)
2. BEAM GUARDRAIL TYPE 31 TO BEAM GUARDRAIL TYPE 1 ADAPTOR
3. BEAM GUARDRAIL TYPE 31
4. BEAM GUARDRAIL TRANSITION SECTION TYPE 24
5. BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
6. TRAFFIC BARRIER WITH BRIDGE RAILING TYPE BP-18
7. PRECAST BRIDGE APPROACH SLAB (CONTRACTOR DESIGNED)

LEGEND

15+00 — CONSTRUCTION ALIGNMENT
EXISTING EDGE OF PAVEMENT
EXISTING EDGE OF EMBANKMENT
EXISTING EDGE LINE WHITE
EXISTING SKIP CENTER LINE YELLOW
EXISTING GUARDRAIL
NEW EDGE LINE WHITE
NEW SKIP CENTER LINE YELLOW
NEW EDGE OF WIDENED EMBANKMENT
NEW PAVED EDGE
NEW GUARDRAIL
NEW TRAFFIC BARRIER
CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1
QUANTITY TABULATION NOTE

NOTES:

1. SAWCUTS IN THE TRAVELED WAY SHALL BE PERPENDICULAR TO TRAFFIC FLOW WITH A NEAT VERTICAL EDGE.
2. TERMINAL PADS, EXCEPT AT NOTED, SHALL BE STANDARD PLAN C-22.45.
3. GUARDRAIL TYPE 31 SHALL UTILIZE 8' OR 9' POSTS AT LOCATIONS WHERE 2.5' OF EMBANKMENT WIDENING IS NOT PROVIDED.
4. SEE SPECIALS PROVISIONS FOR CONTRACTOR DESIGNED PRECAST BRIDGE APPROACH SLAB.

0 10 20
SCALE IN FEET

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\SR534_250_PS_PV.dgn						
TIME	4:41:09 PM						
DATE	10/4/2022						
PLOTTED BY	hardoug						
DESIGNED BY	D. HARRIS						
ENTERED BY	D. HARRIS						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 16005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
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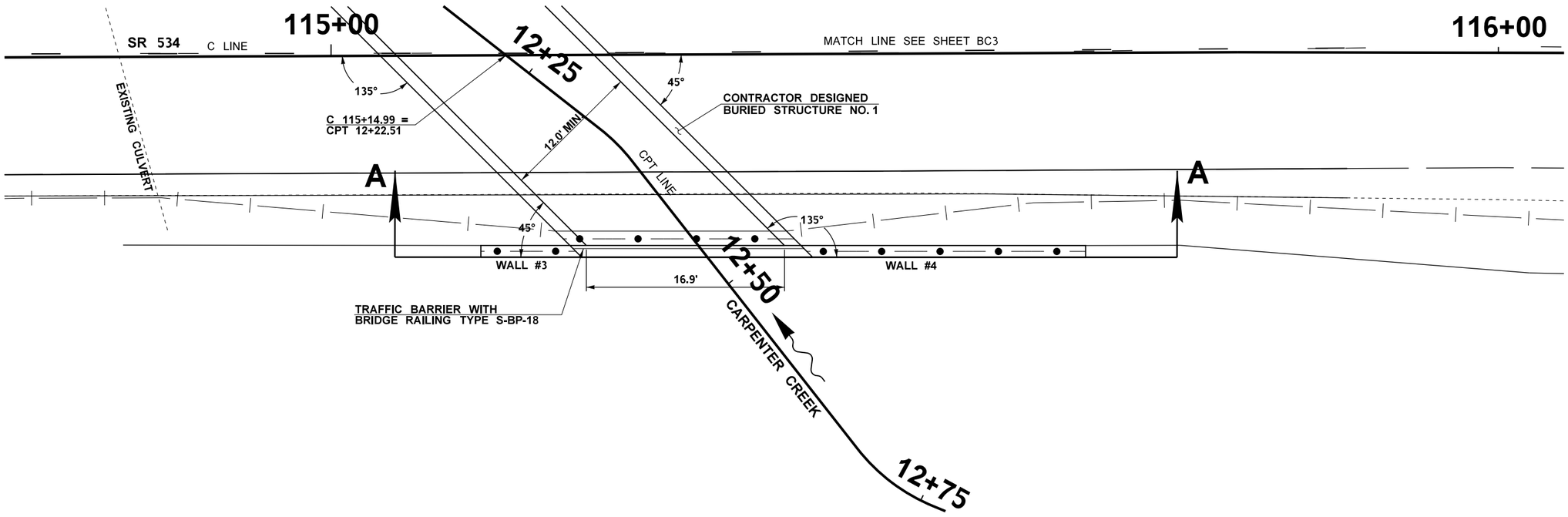
FISH PASSAGE

PAVING PLAN

Plot 1
PLAN REF NO PV1
SHEET 35 OF 48 SHEETS



LEGEND

- - - - - - - - - -	EXISTING PAVED EDGE OF ROADWAY
- - - - - - - - - -	EXISTING CULVERT
	NEW CONSTRUCTION ALIGNMENT
	NEW STREAM ALIGNMENT
	NEW PAVED EDGE OF ROADWAY
	NEW BRIDGE RAILING
	NEW CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1
	FLOW LINE

0 5 10
SCALE IN FEET

NOTES:

1. SEE SHEET BC3 FOR NORTH END (DOWNSTREAM).
2. SEE SHEET BC2 FOR CROSS SECTION A-A.
3. SEE SHEET AL1 FOR STREAM AND ROADWAY ALIGNMENT.
4. SEE SHEET RP1 FOR CENTERLINE ROADWAY PROFILE.
5. SEE SHEET PV1 FOR TRAFFIC BARRIER AND GUARDRAIL.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\SR534_155_PS_Det_Box Culvert.dgn					
TIME	4:38:00 PM					
DATE	10/4/2022					
PLOTTED BY	hardoug					
DESIGNED BY	D. HARRIS					
ENTERED BY	J. MOE					
CHECKED BY	A. WILLIAMS					
PROJ. ENGR.	S. BEIER					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 534
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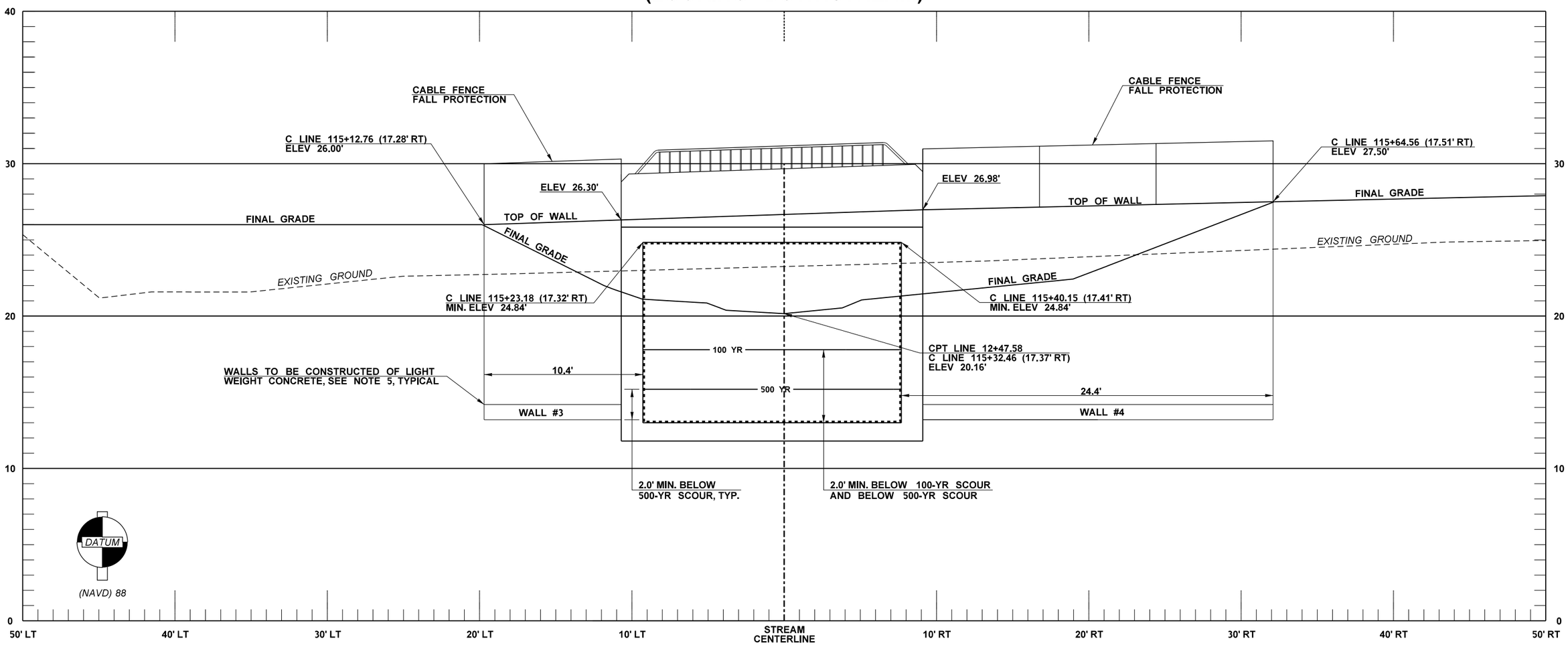
FISH PASSAGE

CONTRACTOR DESIGNED BURIED
STRUCTURE NO. 1 DETAILS

Plot 1
PLAN REF NO
BC1
SHEET 36 OF 48 SHEETS

SOUTH HEADWALL & WALLS
INLET
(LOOKING DOWNSTREAM)



A-A

UNT CARPENTER CREEK ELEVATIONS		
	100-YR SCOUR ELEVATION	500-YR SCOUR ELEVATION
INLET	17.7'	15.3'
OUTLET	15.0'	13.1'

STRUCTURE FREE ZONE

NOTES:

1. STATIONS AND OFFSETS TO OUTSIDE FACE OF WALLS.
2. STRUCTURE SHALL BE A 4-SIDED STRUCTURE.
3. STRUCTURAL DESIGN SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SLAB, WALL AND FOUNDATION THICKNESS SHOWN AT ASSUMED DIMENSIONS.
4. FALL PROTECTION SHALL BE INSTALLED OF THE TOP OF ALL HEADWALLS AND WING WALLS WHERE REQUIRED. SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
5. ALL HEADWALLS, WING WALLS, TRAFFIC BARRIERS, BRIDGE RAILING AND/OR FALL PROTECTION ARE INCLUDED IN THE LUMP SUM BID ITEM FOR CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1. THE WING WALLS SHALL BE PRECAST LIGHTWEIGHT CONCRETE WITH MECHANICAL CONNECTIONS TO THE 4-SIDED STRUCTURE. SEE SPECIAL PROVISIONS FOR LIGHTWEIGHT CONCRETE.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.
7. CHAMFERS OR FILLETS ON THE INSIDE OF THE STRUCTURE SHALL NOT ENCROACH ON THE STRUCTURE FREE ZONE.

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TIME	3:42:41 PM				REGION NO. 10	STATE WASH
DATE	10/6/2022					FED.AID PROJ.NO.
PLOTTED BY	HarDoug					
DESIGNED BY	D. HARRIS				JOB NUMBER 22A021	
ENTERED BY	J. MOE					
CHECKED BY	A. WILLIAMS				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S. BEIER					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

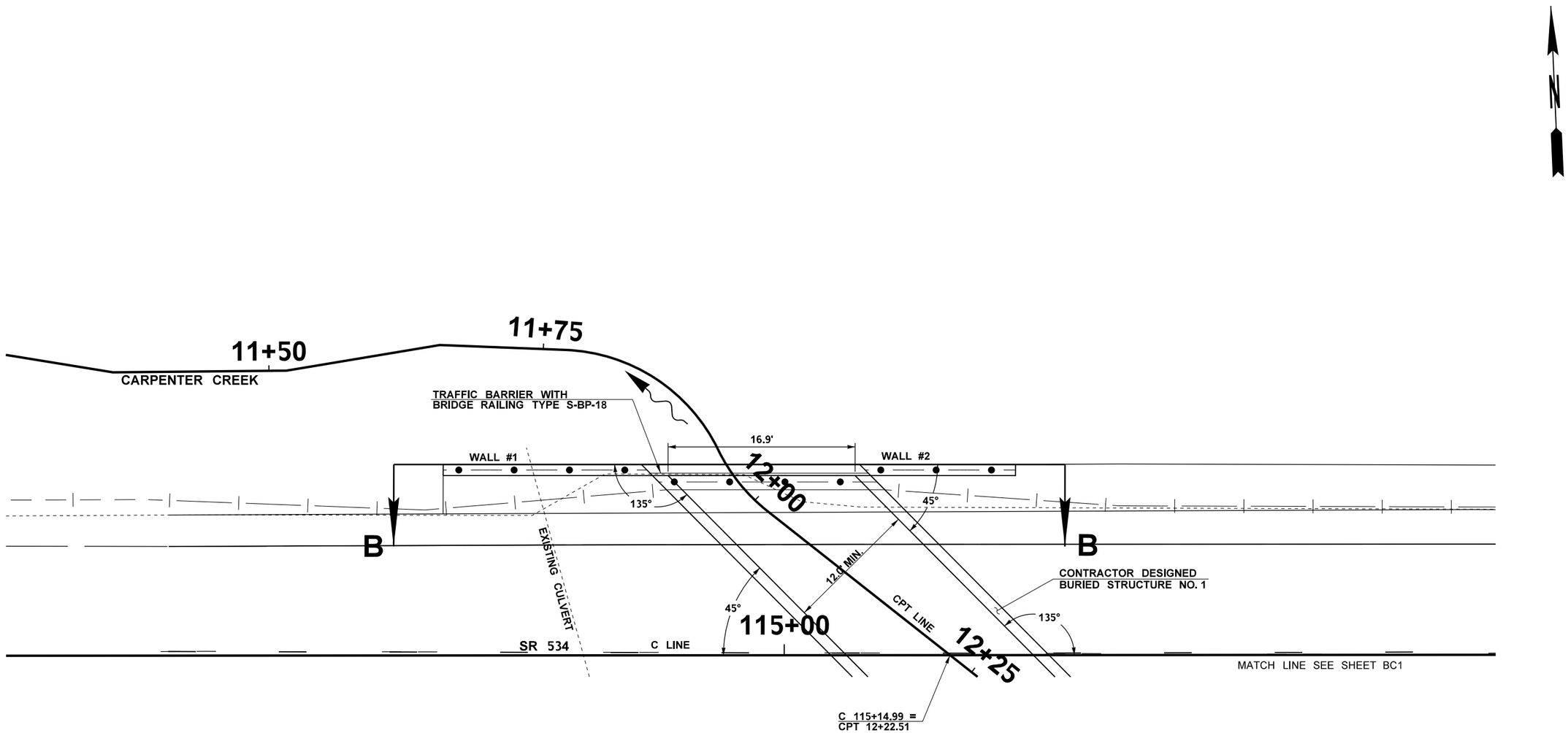
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

CONTRACTOR DESIGNED BURIED
STRUCTURE NO. 1 DETAILS

Plot 2
PLAN REF NO
BC2
SHEET 37 OF 48 SHEETS



LEGEND

- EXISTING PAVED EDGE OF ROADWAY
- EXISTING CULVERT
- NEW CONSTRUCTION ALIGNMENT
- NEW STREAM ALIGNMENT
- NEW PAVED EDGE OF ROADWAY
- NEW BRIDGE RAILING
- NEW CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1
- FLOW LINE

0 5 10
SCALE IN FEET

NOTES:

1. SEE SHEET BC1 FOR SOUTH END (UPSTREAM).
2. SEE SHEET BC4 FOR CROSS SECTION B-B.
3. SEE SHEET AL1 FOR STREAM AND ROADWAY ALIGNMENT.
4. SEE SHEET RP1 FOR CENTERLINE ROADWAY PROFILE.
5. SEE SHEET PV1 FOR TRAFFIC BARRIER AND GUARDRAIL.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\SR534_155_PS_Det_Box Culvert.dgn						
TIME	4:38:34 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/4/2022						
PLOTTED BY	hardoug						
DESIGNED BY	D. HARRIS				JOB NUMBER 22A021		
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

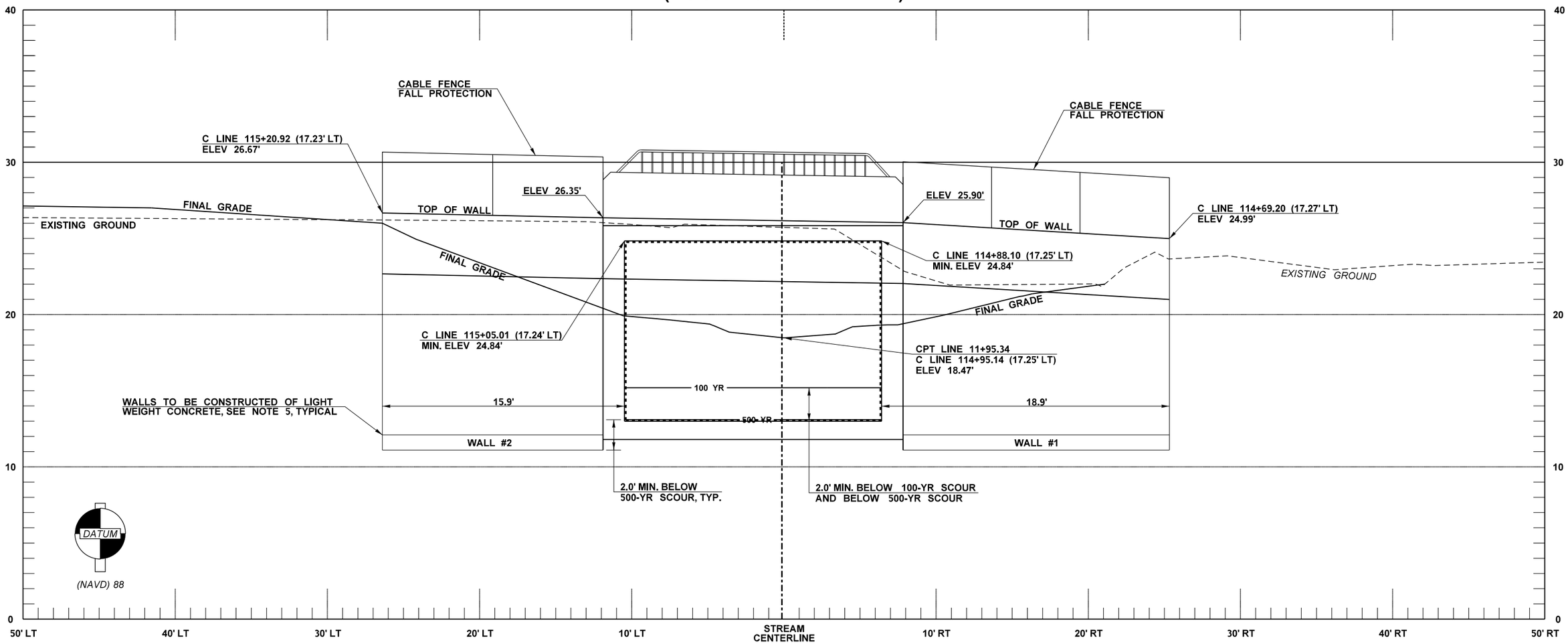
Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

CONTRACTOR DESIGNED BURIED
STRUCTURE NO. 1 DETAILS

Plot 3
PLAN REF NO
BC3
SHEET 38 OF 48 SHEETS

NORTH HEADWALL & WALLS
OUTLET
(LOOKING UPSTREAM)



B-B

UNT CARPENTER CREEK ELEVATIONS		
	100-YR SCOUR ELEVATION	500-YR SCOUR ELEVATION
INLET	17.7'	15.3'
OUTLET	15.0'	13.1'

STRUCTURE FREE ZONE

NOTES:

1. STATIONS AND OFFSETS TO OUTSIDE FACE OF WALLS.
2. STRUCTURE SHALL BE A 4-SIDED STRUCTURE.
3. STRUCTURAL DESIGN SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SLAB, WALL AND FOUNDATION THICKNESS SHOWN AT ASSUMED DIMENSIONS.
4. FALL PROTECTION SHALL BE INSTALLED OF THE TOP OF ALL HEADWALLS AND WING WALLS WHERE REQUIRED. SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
5. ALL HEADWALLS, WING WALLS, TRAFFIC BARRIERS, BRIDGE RAILING AND/OR FALL PROTECTION ARE INCLUDED IN THE LUMP SUM BID ITEM FOR CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1. THE WING WALLS SHALL BE PRECAST LIGHTWEIGHT CONCRETE WITH MECHANICAL CONNECTIONS TO THE 4-SIDED STRUCTURE. SEE SPECIAL PROVISIONS FOR LIGHTWEIGHT CONCRETE.
6. A MINIMUM HYDRAULIC OPENING OF 12', PERPENDICULAR TO THE INSIDE OF THE STRUCTURE, SHALL BE PROVIDED.
7. CHAMFERS OR FILLETS ON THE INSIDE OF THE STRUCTURE SHALL NOT ENCROACH ON THE STRUCTURE FREE ZONE.

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DATE	10/6/2022						
PLOTTED BY	HarDoug						
DESIGNED BY	D. HARRIS				JOB NUMBER 22A021		
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

SPENCER T. BEIER — STATE OF WASHINGTON — 36005 — REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

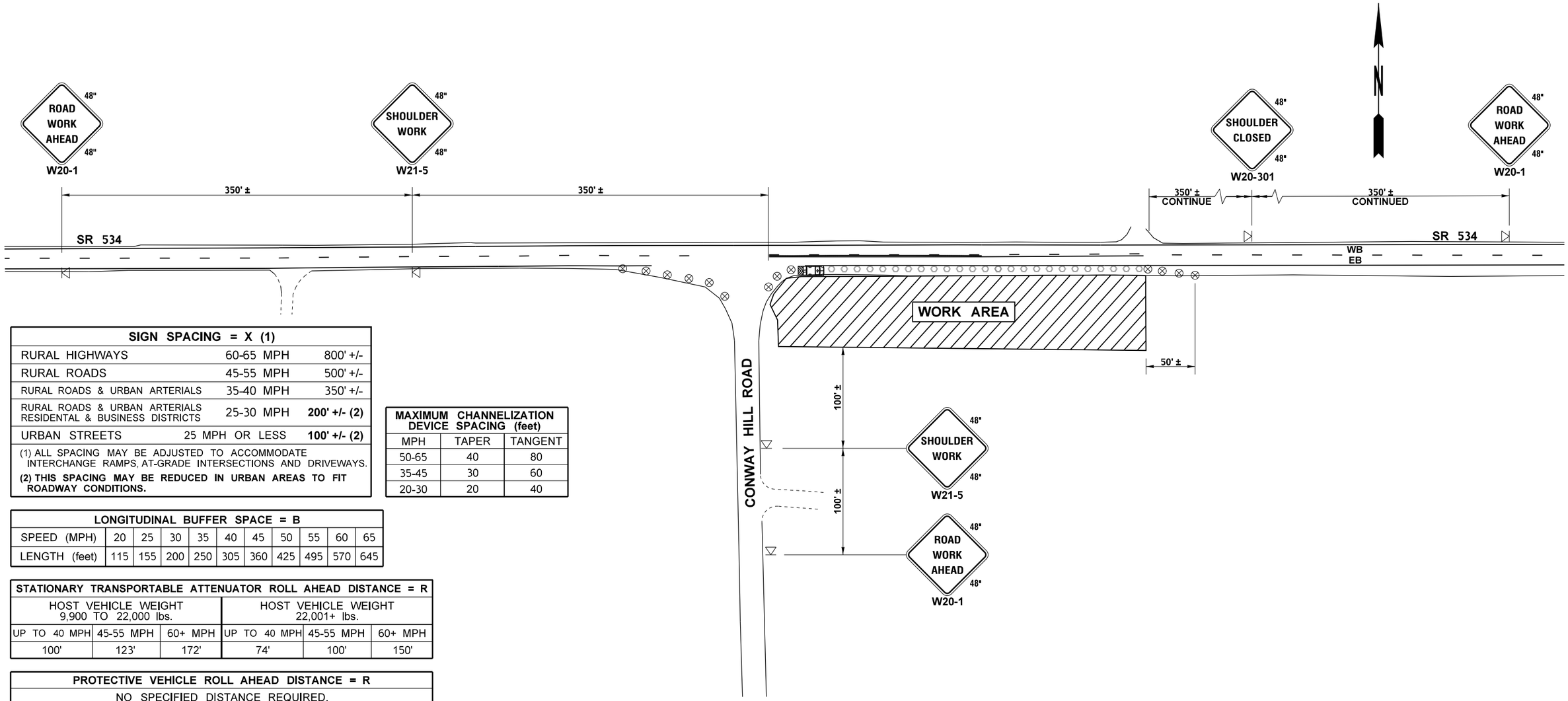
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

CONTRACTOR DESIGNED BURIED
STRUCTURE NO. 1 DETAILS

Plot 4
PLAN REF NO
BC4
SHEET 39 OF 48 SHEETS



SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800' +/-
RURAL ROADS	45-55 MPH	500' +/-
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350' +/-
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTRICTS	25-30 MPH	**200' +/- (2)**
URBAN STREETS	25 MPH OR LESS	**100' +/- (2)**

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	40	80
35-45	30	60
20-30	20	40

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65
LENGTH (feet)	115	155	200	250	305	360	425	495	570	645

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001+ lbs.		
UP TO 40 MPH	45-55 MPH	60+ MPH	UP TO 40 MPH	45-55 MPH	60+ MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.
3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

0 50 100
SCALE IN FEET

SR 534 EASTBOUND SHOULDER CLOSURE MP 0.59 - MP 0.65

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Traffic Control\XL6097_410_SH_TCP.dgn				
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DATE	10/4/2022				
PLOTTED BY	hardoug				
DESIGNED BY	B. BEEMER				
ENTERED BY	J. MOE				
CHECKED BY	A. WILLIAMS				
PROJ. ENGR.	S. BEIER				
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

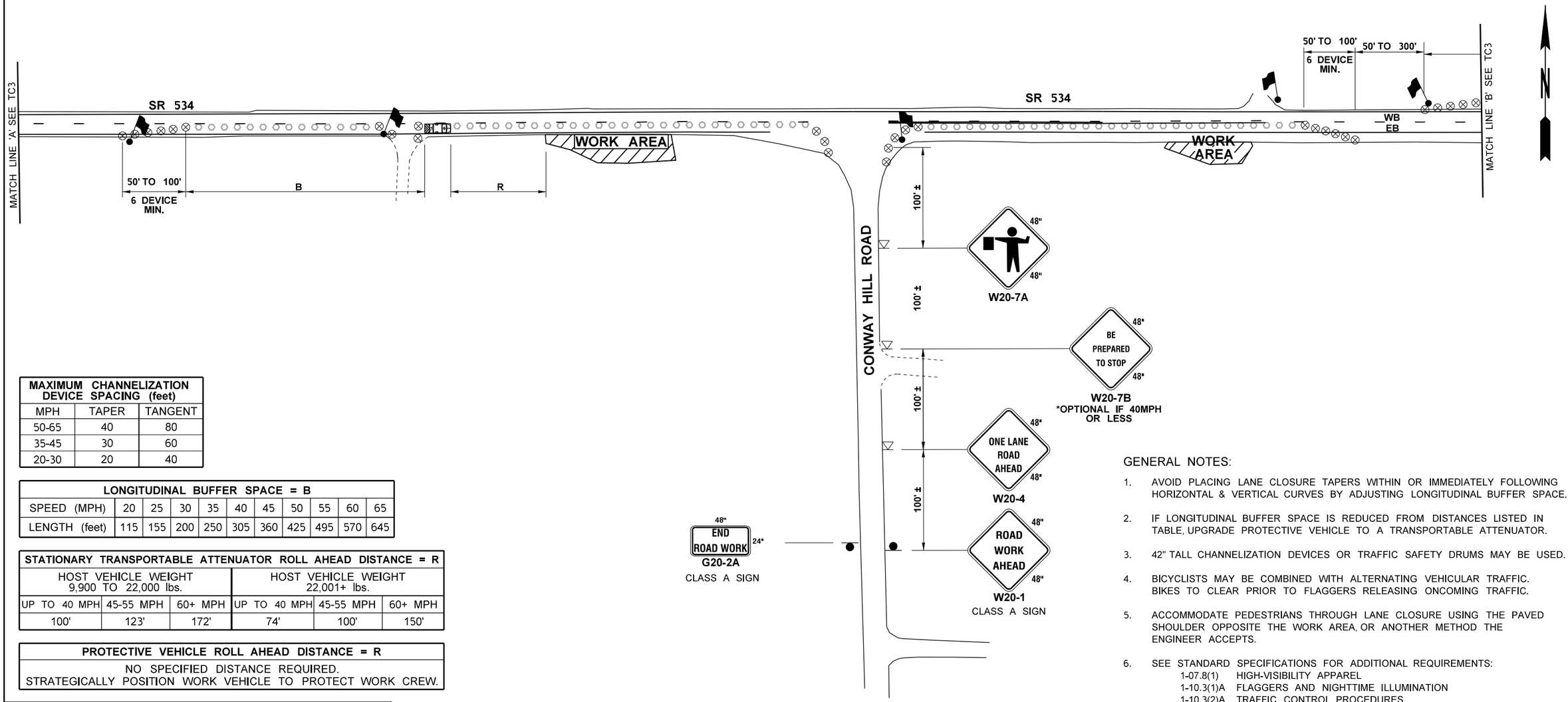
P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 1
PLAN REF NO TC1
SHEET 40 OF 48 SHEETS



MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	40	80
35-45	30	60
20-30	20	40

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65
LENGTH (feet)	115	155	200	250	305	360	425	495	570	645

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001+ lbs.		
UP TO 40 MPH	45-55 MPH	60+ MPH	UP TO 40 MPH	45-55 MPH	60+ MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.69

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Traffic Control\XL6097_410_SH_TCP.dgn				
TIME	4:51:37 PM				
DATE	10/4/2022				
PLOTTED BY	hardoug				
DESIGNED BY	B. BEEMER				
ENTERED BY	J. MOE				
CHECKED BY	A. WILLIAMS				
PROJ. ENGR.	S. BEIER				
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 22A021		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

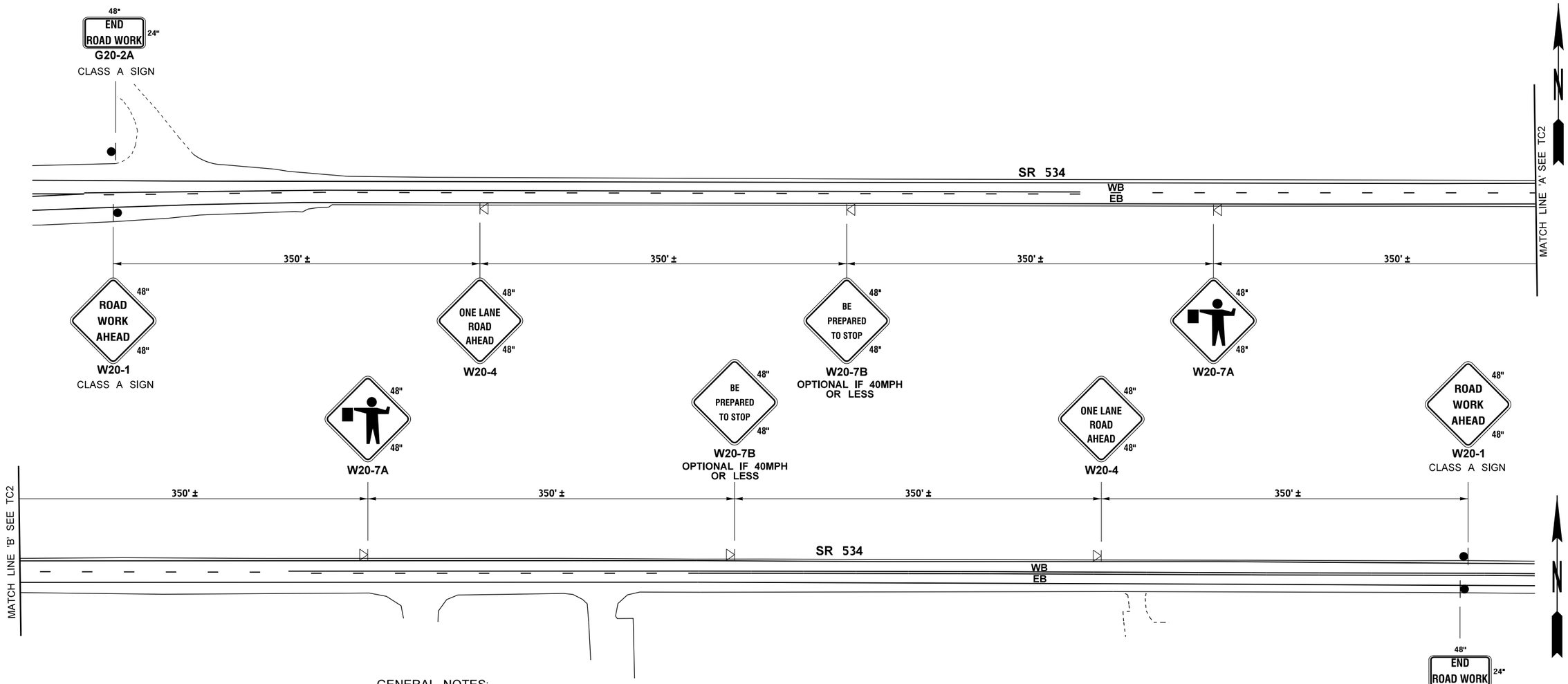
P.E. STAMP BOX DATE

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 11
PLAN REF NO TC2
SHEET 41 OF 48 SHEETS



GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.69

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Traffic Control\XL6097_410_SH_TCP.dgn
TIME	4:51:43 PM
DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

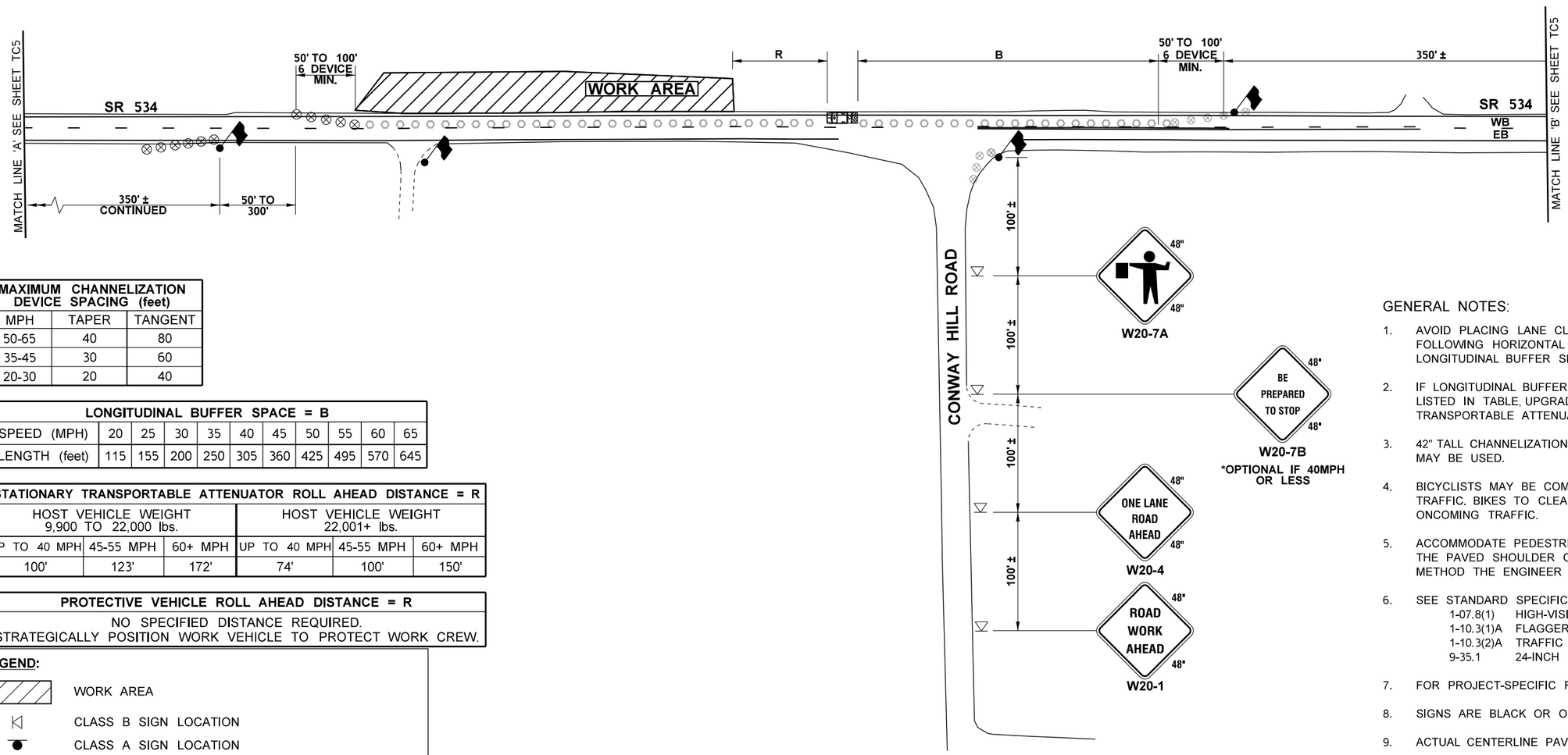
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 12

PLAN REF NO TC3

SHEET 42 OF 48 SHEETS



MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	40	80
35-45	30	60
20-30	20	40

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65
LENGTH (feet)	115	155	200	250	305	360	425	495	570	645

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT 22,001+ lbs.		
UP TO 40 MPH	45-55 MPH	60+ MPH	UP TO 40 MPH	45-55 MPH	60+ MPH
100'	123'	172'	74'	100'	150'

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.56

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Traffic Control\XL6097_410_SH_TCP.dgn
TIME	4:51:50 PM
DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 22A021
CONTRACT NO. | LOCATION NO.

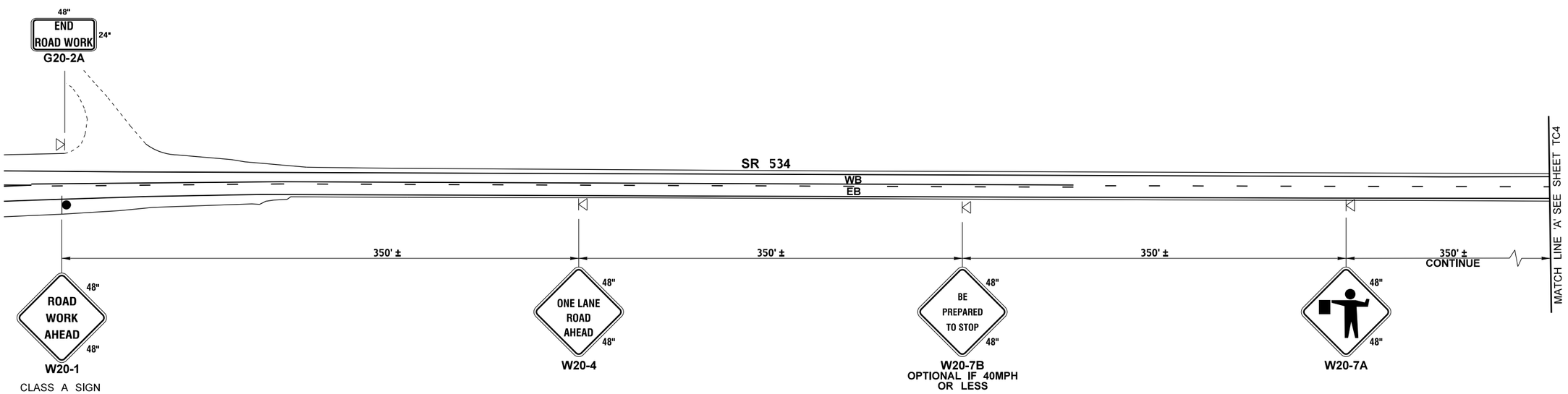
P.E. STAMP BOX DATE
P.E. STAMP BOX DATE

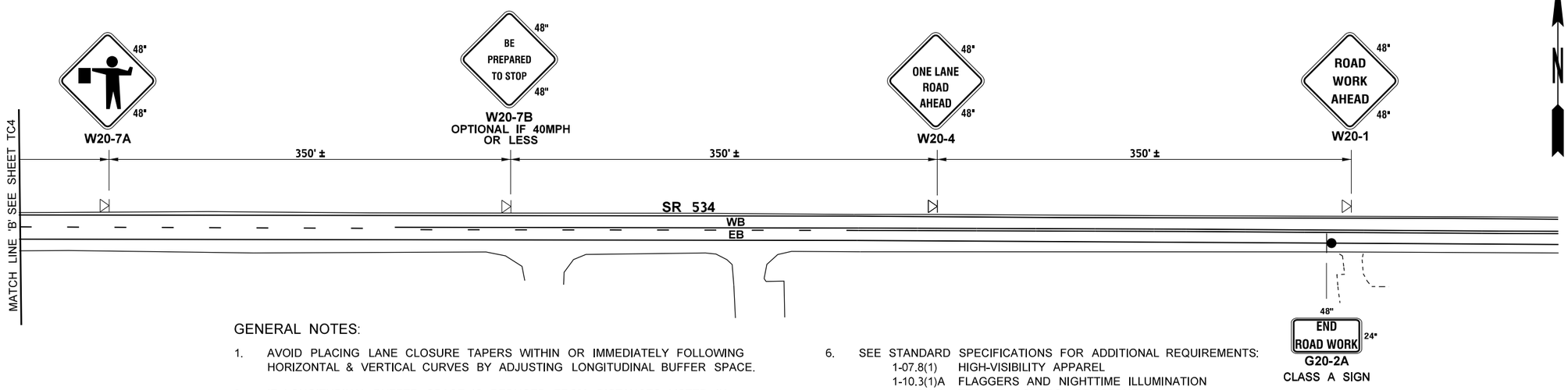
Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 21
PLAN REF NO TC4
SHEET 43 OF 48 SHEETS





GENERAL NOTES:

1. AVOID PLACING LANE CLOSURE TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE.
2. IF LONGITUDINAL BUFFER SPACE IS REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLE TO A TRANSPORTABLE ATTENUATOR.
3. 42" TALL CHANNELIZATION DEVICES OR TRAFFIC SAFETY DRUMS MAY BE USED.
4. BICYCLISTS MAY BE COMBINED WITH ALTERNATING VEHICULAR TRAFFIC. BIKES TO CLEAR PRIOR TO FLAGGERS RELEASING ONCOMING TRAFFIC.
5. ACCOMMODATE PEDESTRIANS THROUGH LANE CLOSURE USING THE PAVED SHOULDER OPPOSITE THE WORK AREA, OR ANOTHER METHOD THE ENGINEER ACCEPTS.
6. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   - 1-07.8(1) HIGH-VISIBILITY APPAREL
   - 1-10.3(1)A FLAGGERS AND NIGHTTIME ILLUMINATION
   - 1-10.3(2)A TRAFFIC CONTROL PROCEDURES
   - 9-35.1 24-INCH STOP/SLOW PADDLE SIZE
7. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
8. SIGNS ARE BLACK OR ORANGE UNLESS OTHERWISE INDICATED.
9. ACTUAL CENTERLINE PAVEMENT MARKINGS MAY VARY.
10. EXTEND DEVICE TAPER (L/3) ACROSS SHOULDER.

LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- 42" TALL CHANNELIZING DEVICE
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE

0 50 100
SCALE IN FEET

SR 534 ALTERNATING 1-LANE, 2-WAY TRAFFIC FLAGGER CONTROLLED, MP 0.49 - MP 0.56

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TIME	4:51:56 PM
DATE	10/4/2022
PLOTTED BY	hardoug
DESIGNED BY	B. BEEMER
ENTERED BY	J. MOE
CHECKED BY	A. WILLIAMS
PROJ. ENGR.	S. BEIER
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 22A021

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

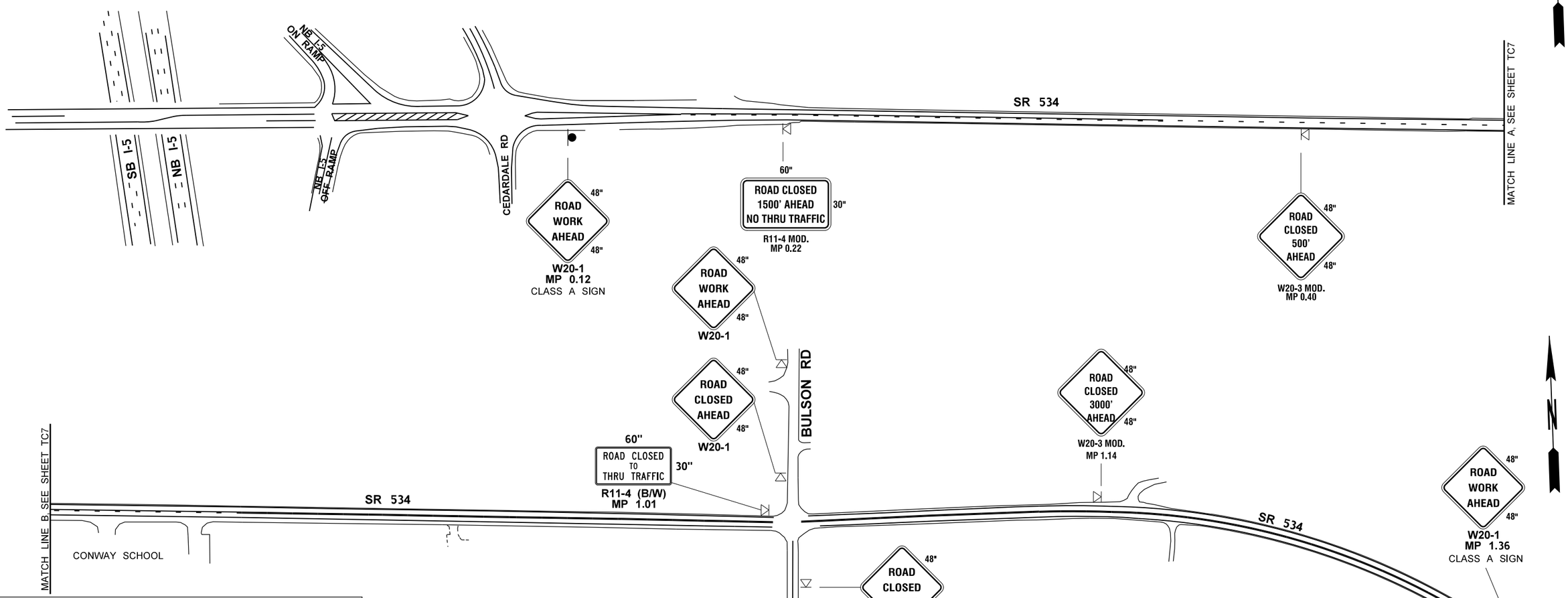
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 22

PLAN REF NO TC5

SHEET 44 OF 48 SHEETS



LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA) OR PROTECTIVE VEHICLE
- TYPE 3 BARRICADE W/ TYPE C LIGHTS

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

0 100 200
SCALE IN FEET

SR 534 FULL CLOSURE, MP 0.49 - MP 0.58

FILE NAME	T:\412334\XL6097 SR534 Trib to Carpenter Ck FP\CAE\CAD\ContractPlans\Traffic Control\XL6097_411_SH_ROAD CLOSED.dgn						
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DATE	10/4/2022						
PLOTTED BY	hardoug						
DESIGNED BY	B. BEEMER				JOB NUMBER 22A021		
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

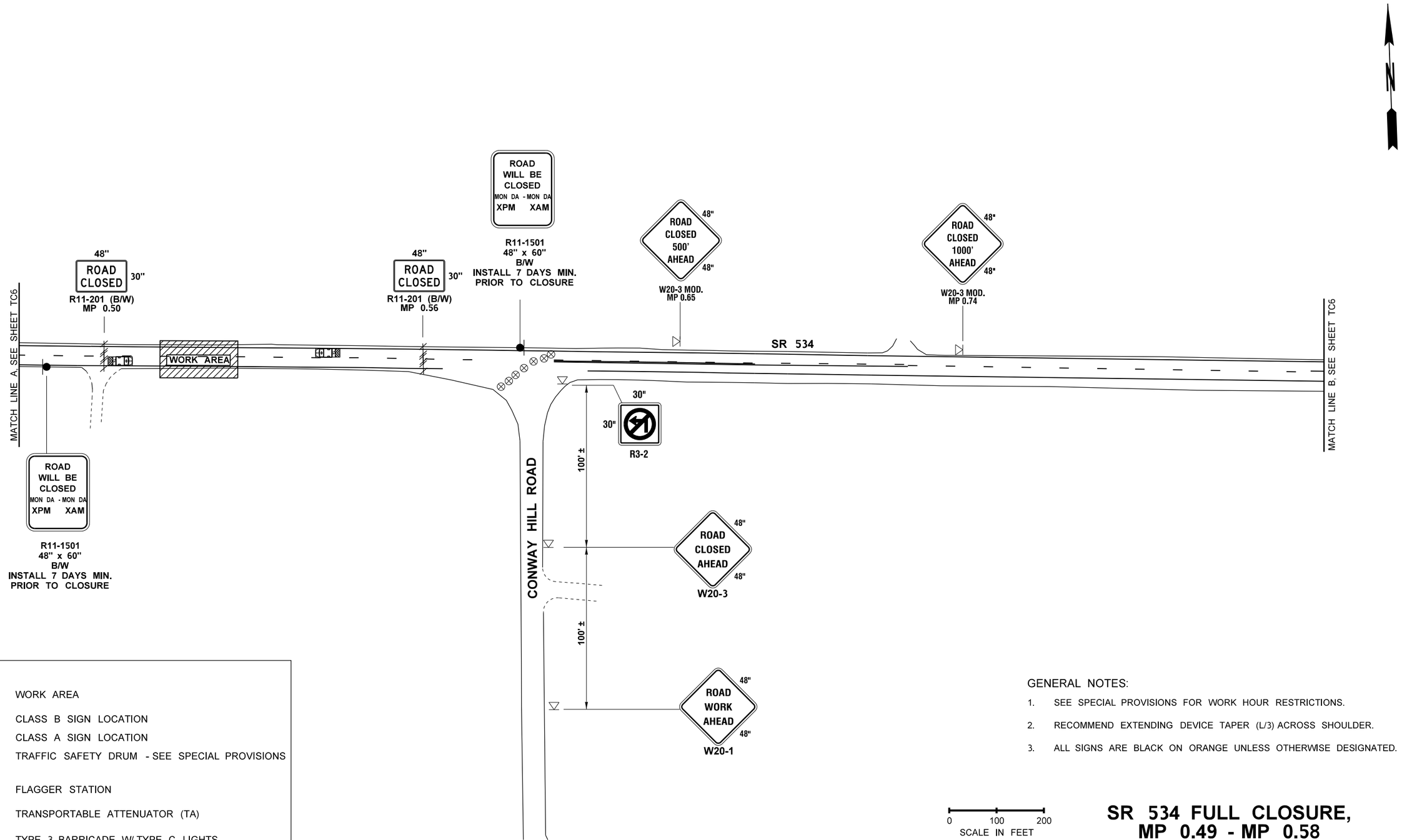
DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 1
PLAN REF NO
TC6
SHEET 45 OF 48 SHEETS



LEGEND:

- WORK AREA
- CLASS B SIGN LOCATION
- CLASS A SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISIONS
- FLAGGER STATION
- TRANSPORTABLE ATTENUATOR (TA)
- TYPE 3 BARRICADE W/ TYPE C LIGHTS

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
3. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

0 100 200
SCALE IN FEET

SR 534 FULL CLOSURE, MP 0.49 - MP 0.58

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DATE	10/4/2022						
PLOTTED BY	hardoug						
DESIGNED BY	B. BEEMER				JOB NUMBER 22A021		
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

TRAFFIC CONTROL PLAN

Plot 2
PLAN REF NO TC7
SHEET 46 OF 48 SHEETS

LEGEND

- - - - - -	DETOUR ROUTE
●	CLASS A SIGN LOCATION
(5)	SIGN FLAG NOTE - SEE CLASS A SIGN LEGEND ON SHEET DP2

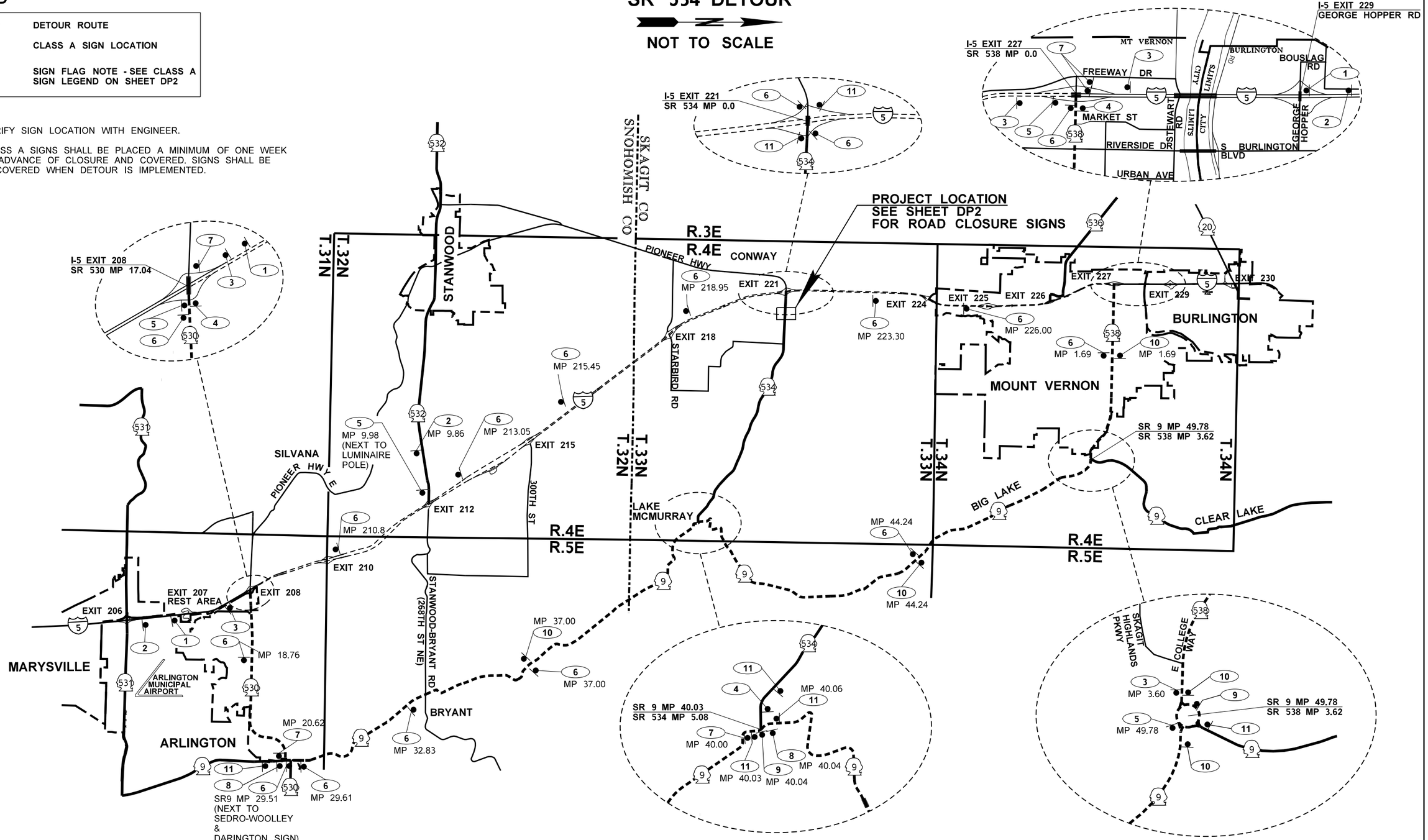
NOTES:

1. VERIFY SIGN LOCATION WITH ENGINEER.
2. CLASS A SIGNS SHALL BE PLACED A MINIMUM OF ONE WEEK IN ADVANCE OF CLOSURE AND COVERED. SIGNS SHALL BE UNCOVERED WHEN DETOUR IS IMPLEMENTED.

SR 534 DETOUR

N

NOT TO SCALE



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DATE	10/4/2022				CONTRACT NO.		LOCATION NO.
PLOTTED BY	hardoug						
DESIGNED BY	B. BEEMER						
ENTERED BY	J. MOE						
CHECKED BY	A. WILLIAMS						
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

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Washington State
Department of Transportation

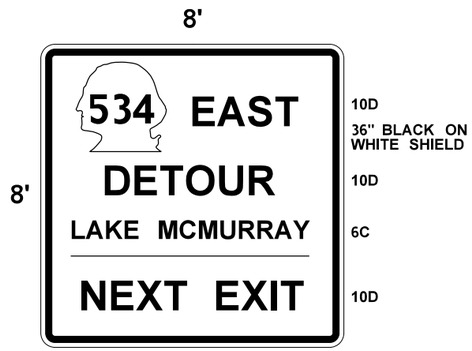
SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

DETOUR PLAN

Plot 1

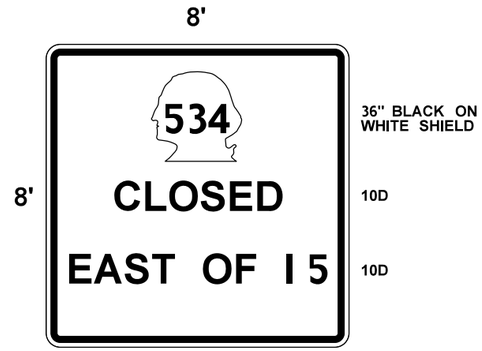
PLAN REF NO **DP1**

SHEET 47 OF 48 SHEETS



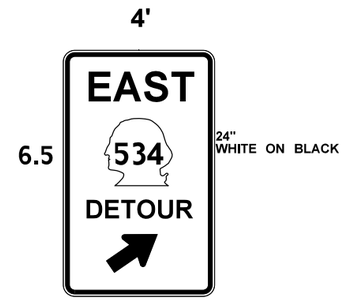
SPECIAL
3" CORNER RADIUS
1.5" MARGIN, 2" BORDER
BLACK ON ORANGE
2 POST MIN.

1



SPECIAL
3" CORNER RADIUS
1.5" MARGIN, 2" BORDER
BLACK ON ORANGE
2 POST MIN.

2

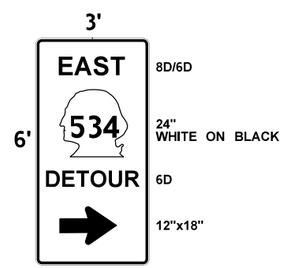


SPECIAL
4" CORNER RADIUS
3/4" MARGIN, 1 1/4" BORDER
BLACK ON ORANGE

3

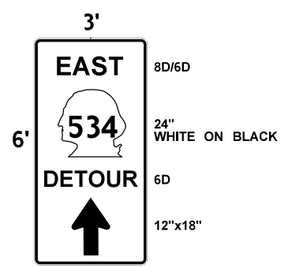
M4-8a
24" X 18"
BLACK ON ORANGE

4



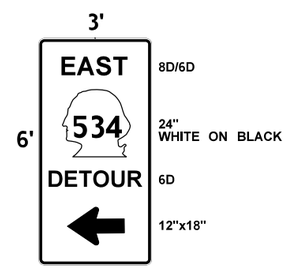
SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

5



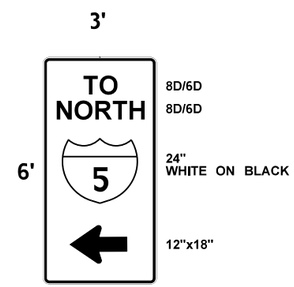
SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

6



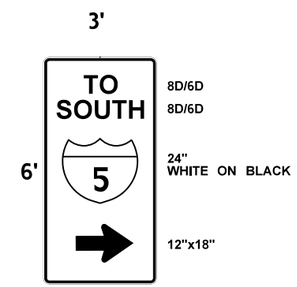
SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

7



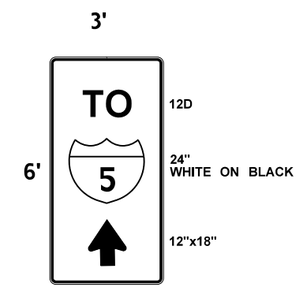
SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

8



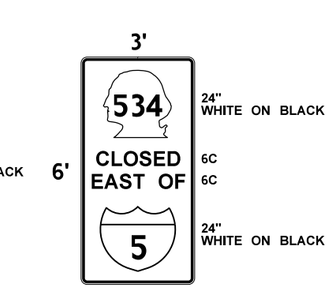
SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

9



SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

10



SPECIAL
2 1/4" RADIUS
5/8" MARGIN, 7/8" BORDER
BLACK ON ORANGE

11

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TIME	4:58:49 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/4/2022						
PLOTTED BY	hardoug						
DESIGNED BY	B. BEEMER				JOB NUMBER 22A021		
ENTERED BY	B. SCHEI						
CHECKED BY	A. WILLIAMS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S. BEIER						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR 534
UNNAMED TRIBUTARY TO CARPENTER CR
FISH PASSAGE

DETOUR PLAN

Plot 2

PLAN REF NO
DP2

SHEET 48 OF 48 SHEETS

Plans Certification 22A021 XL-6097 SR 534 UNNAMED TRIBUTARY TO CARPENTER CREEK -FISH PASSAGE

Final Audit Report 2022-10-20

Created:	2022-10-20
By:	Dave Schrader (SchradD@wsdot.wa.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAAV6ONNa6kqSn5nrSZLHiwi07tMBOOh84n

"Plans Certification 22A021 XL-6097 SR 534 UNNAMED TRIBUTARY TO CARPENTER CREEK -FISH PASSAGE" History

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Agreement completed.

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