

Contract Plans

009609

For Construction of:

SR 164

MS 8.20 TO MP 8.30

PUSSYFOOT CREEK FISH PASSAGE

KING COUNTY

A STATE PROJECT

INDEX

SHEET NO.	PLAN REFERENCE NO.	TITLE
1	IN1	INDEX
2	VM1	VICINITY MAP
3-6	SQ1-SQ4	SUMMARY OF QUANTITIES
7	RS1	ROADWAY SECTION
8	AL1	ALIGNMENT AND RIGHT OF WAY PLAN
9	QTSP1	QUANTITY TABULATION - SITE PREP / TESC
10	SP1	SITE PREP / TESC PLAN
11	RP1	ROADWAY PROFILE
12	EC1	ENVIRONMENTAL COMPLIANCE PLAN
13	DR1	DRAINAGE PLAN
14	DP1	DRAINAGE PROFILES
15	ST1	STREAM PLAN
16	STP1	STREAM PROFILE
17-22	SD1 - SD6	STREAM DETAILS
23	UT1	UTILITY PLAN AND LEGEND
24	UT2	WATER AND SANITARY SEWER DETAILS
25	UT3	SANITARY SEWER PLAN/PROFILE
26	UT4	SANITARY SEWER DETAILS
27	UT5	SANITARY SEWER BYPASS PLAN
28	UT6	SANITARY SEWER BYPASS DETAILS
29	UT7	WATER MAIN PLAN/PROFILE
30-31	UT8 - UT9	WATER MAIN DETAILS
32	SPP1	SOIL PREPARATION PLAN
33	LP1	RESTORATION PLAN
34-36	LD1 - LD3	LANDSCAPE DETAILS
37	SS1	SIGN SPECIFICATIONS
38	QTPV1	QUANTITY TABULATION - PAVING/MARKING
39	PV1	PAVING / MARKING / WALL PLAN
40	WP1	GEOSYNTHETIC WALL PROFILES
BRIDGE PLANS		
41	BR1	LAYOUT
42	BR2	DATA AND GENERAL NOTES
43	BR3	CONSTRUCTION SEQUENCE
44	BR4	FOUNDATION LAYOUT
45	BR5	PIER 1 & 2 SHAFT DETAILS
46	BR6	PIER 1 PLAN
47	BR7	PIER 1 ELEVATION
48	BR8	PIER 1 DETAILS 1 OF 2
49	BR9	PIER 1 DETAILS 2 OF 2
50	BR10	PIER 1 CURTAIN WALL DETAILS 1 OF 2
51	BR11	PIER 1 CURTAIN WALL DETAILS 2 OF 2

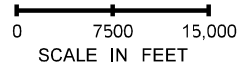
SHEET NO.	PLAN REFERENCE NO.	TITLE
52	BR12	PIER 2 PLAN
53	BR13	PIER 2 ELEVATION
54	BR14	PIER 2 DETAILS 1 OF 2
55	BR15	PIER 2 DETAILS 2 OF 2
56	BR16	PIER 2 CURTAIN WALL DETAILS 1 OF 2
57	BR17	PIER 2 CURTAIN WALL DETAILS 2 OF 2
58	BR18	BEARING DETAILS
59	BR19	FRAMING PLAN
60	BR20	TYPICAL SECTION
61	BR21	WF74TDG GIRDER DETAILS 1 OF 5
62	BR22	WF74TDG GIRDER DETAILS 2 OF 5
63	BR23	WF74TDG GIRDER DETAILS 3 OF 5
64	BR24	WF74TDG GIRDER DETAILS 4 OF 5
65	BR25	WF74TDG GIRDER DETAILS 5 OF 5
66	BR26	END DIAPHRAGM DETAILS
67	BR27	BRIDGE DECK REINFORCEMENT PLAN
68	BR28	BRIDGE DECK REINFORCEMENT SECTION
69	BR29	UTILITY HANGER DETAILS 1 OF 2
70	BR30	UTILITY HANGER DETAILS 2 OF 2
71	BR31	TRAFFIC BARRIER DETAILS 1 OF 4
72	BR32	TRAFFIC BARRIER DETAILS 2 OF 4
73	BR33	TRAFFIC BARRIER DETAILS 3 OF 4
74	BR34	TRAFFIC BARRIER DETAILS 4 OF 4
75	BR35	BRIDGE RAILING TYPE BP-12 DETAILS 1 OF 2
76	BR36	BRIDGE RAILING TYPE BP-12 DETAILS 2 OF 2
77	BR37	BRIDGE APPROACH SLAB DETAILS 1 OF 3
78	BR38	BRIDGE APPROACH SLAB DETAILS 2 OF 3
79	BR39	BRIDGE APPROACH SLAB DETAILS 3 OF 3
80	BR40	GEOSYNTHETIC WALL - SINGLE SLOPE TRAFFIC BARRIER DETAILS 1 OF 2
81	BR41	GEOSYNTHETIC WALL - SINGLE SLOPE TRAFFIC BARRIER DETAILS 2 OF 2
82	BR42	BAR LIST
83-91	TC1-TC9	TRAFFIC CONTROL PLAN
92-100	DU1-DU9	DETOUR PLAN

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.

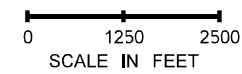
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TIME	10:43:39 AM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	10/14/2020				10	WASH	
PLOTTED BY	rillinm				JOB NUMBER		
DESIGNED BY	M. RILLING				19A031		
ENTERED BY	M. RILLING				CONTRACT NO.		LOCATION NO.
CHECKED BY	B. ALLEN						
PROJ. ENGR.	N. PEN						
REGIONAL ADM.	M. COTTEN	REVISION	DATE	BY			


			SR 164 PUSSYFOOT CREEK FISH PASSAGE	PLAN REF NO IN1
		Washington State Department of Transportation	INDEX	SHEET 1 OF 100 SHEETS
P.E. STAMP BOX DATE	P.E. STAMP BOX DATE			

212TH	AVE	SE
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1. FOR CONSTRUCTION ALIGNMENTS SEE SHEET AL1
2. FOR DETOURS SEE SHEETS DU1-DU9



FILE NAME c:\users\rillinm\pw_wsdotid0122211\XL5186_PS_VM.dgn										Plot 1	
TIME 1:43:01 PM						REGION NO.		STATE		FED.AID PROJ.NO.	
DATE 10/14/2020						10		WASH			
PLOTTED BY rillinm						JOB NUMBER		19A031			
DESIGNED BY M. RILLING						CONTRACT NO.		LOCATION NO.		 <p>Washington State Department of Transportation</p> <p>SR 164 PUSSYFOOT CREEK FISH PASSAGE</p> <p>VICINITY MAP</p>	
ENTERED BY M. RILLING											
CHECKED BY B. ALLEN											
PROJ. ENGR. N. PEN										<p>P.E. STAMP BOX _____ DATE _____</p> <p>P.E. STAMP BOX _____ DATE _____</p>	
REGIONAL ADM. M. COTTEN		REVISION		DATE		BY					

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	GROUP 1	GROUP 1	GROUP 1	GROUP 1	GROUP 2								
							PUSSYFOOT CREEK FISH PASSAGE	BRIDGE NO. 164/25	WALL 1	WALL 2	WALL 3	WALL 4	THIRD PARTY DAMAGES							
						PREPARATION														
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	L.S.	L.S.	L.S.	L.S.									
2	1.00		1.00	0025	ACRE	CLEARING AND GRUBBING	1.00													
3	70500.00		70500.00	0038	DOL	ARCHAEOLOGICAL AND HISTORICAL SALVAGE	70,500.00													
4	1.00		1.00	0047	EACH	REMOVING MANHOLE	1.00													
5	LUMP SUM		LUMP SUM	0050	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.													
6	36000.00		36000.00	0256	DOL	REMOVING SHAFT OBSTRUCTIONS		36,000.00												
7	1090.00		1090.00	0090	S.Y.	REMOVING CEMENT CONC. PAVEMENT	1,090.00													
8	845.00		845.00	0120	S.Y.	REMOVING ASPHALT CONC. PAVEMENT	845.00													
9	750.00		750.00	0170	L.F.	REMOVING GUARDRAIL	750.00													
10	4.00		4.00	0182	EACH	REMOVING GUARDRAIL ANCHOR	4.00													
11	7.00		7.00	0185	EACH	REMOVING GUIDE POST	7.00													
12	LUMP SUM		LUMP SUM		L.S.	TEMPORARY CONSTRUCTION ACCESS	L.S.													
13	30.00		30.00		L.F.	REMOVING SANITARY SEWER PIPE	30.00													
						GRADING														
14	220.00		220.00	0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL	220.00													
						DRAINAGE														
15	30055.00		30055.00	1040	C.Y.	CHANNEL EXCAVATION INCL. HAUL	30,055.00													
16	860.00		860.00	1093	TON	STREAMBED SEDIMENT	860.00													
17	26.00		26.00	1073	TON	LIGHT LOOSE RIPRAP	26.00													
18	1870.00		1870.00	0903	TON	STREAMBED COBBLES 10 IN.	1,870.00													
19	150.00		150.00	0906	TON	STREAMBED BOULDER ONE MAN	150.00													
20	242.00		242.00	1160	L.F.	UNDERDRAIN PIPE 6 IN. DIAM.		105.00	18.00	55.00	19.00	45.00								
21	60.00		60.00	1292	L.F.	CL. V REINF. CONC. CULV. PIPE 18 IN. DIAM.	60.00													
22	LUMP SUM		LUMP SUM	3075	L.S.	TEMPORARY STREAM DIVERSION	L.S.													
23	15000.00		15000.00	3076	DOL	FISH EXCLUSION	15,000.00													
						SANITARY SEWER														
24	2.00		2.00		EACH	CONNECTION TO SANITARY SEWER MANHOLE	2.00													
25	249.00		249.00		L.F.	DUCTILE IRON SEWER PIPE 8 IN. DIAM. OPEN TRENCH	249.00													
26	162.00		162.00		L.F.	DUCTILE IRON SEWER PIPE 8 IN. DIAM. 18 IN. CASING	162.00													
27	2.00		2.00		EACH	DOUBLE BALL EXPANSION JOINT FOR SEWER 8 IN. DIAM.	2.00													
28	LUMP SUM		LUMP SUM		L.S.	TEMPORARY SEWAGE BYPASS	L.S.													
29	2.00		2.00		EACH	PLUGGING EXISTING SEWER PIPE	2.00													
						WATER LINES														
30	1.00		1.00	6160	EACH	GATE VALVE 8 IN.	1.00													
31	225.00		225.00		L.F.	DUCTILE IRON PIPE FOR WATER MAIN 8 IN. DIAM OPEN TRENCH	225.00													
32	162.00		162.00		L.F.	DUCTILE IRON PIPE FOR WATER MAIN 8 IN DIAM 18 IN CASING	162.00													
33	2.00		2.00		EACH	CONNECT TO EXISTING WATER MAIN	2.00													
34	2.00		2.00		EACH	DOUBLE BALL EXPANSION JOINT FOR WATER 8 IN. DIAM.	2.00													
						STRUCTURE														
35	2409.00		2409.00	4006	C.Y.	STRUCTURE EXCAVATION CLASS A INCL. HAUL		1,489.00	110.00	460.00	75.00	275.00								
36	LUMP SUM		LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A		L.S.	L.S.	L.S.	L.S.									
37	460.00		460.00	4025	C.Y.	GRAVEL BACKFILL FOR WALL		460.00												

GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	164	171840	**	STATE - CWA
	2	164	171840	**	STATE

11/18/20	REVISED ITEMS 14 AND 37, DELETED ITEMS 50 AND 105	JL	REGION	STATE	FEDERAL AID PROJECT. NO.	Washington State Department of Transportation	SR 164 PUSSYFOOT CREEK FISH PASSAGE	SQ1
11/18/20	ADDED ITEMS 134-146	JL	10	WA				
			JOB NUMBER					OF
			19A031/5					100
			CONTRACT NO					SHEETS
			009609					
DATE	REVISION	BY					SUMMARY OF QUANTITIES	

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	GROUP 1	GROUP 1	GROUP 1	GROUP 1	GROUP 1	GROUP 2								
							PUSSYFOOT CREEK FISH PASSAGE	BRIDGE NO. 164/25	WALL 1	WALL 2	WALL 3	WALL 4	THIRD PARTY DAMAGES								
38	240.00		240.00	4092	L.F.	CONSTRUCTING 10 FT. DIAM SHAFT		240.00													
39	117577.00		117577.00	4149	LB.	ST. REINF. BAR FOR BRIDGE		117,577.00													
40	408.00		408.00	4322	C.Y.	CONC. CLASS 4000 FOR BRIDGE		408.00													
41	995.00		995.00	4269	L.F.	PRESTRESSED CONC. GIRDER - WF74TDG		995.00													
42	1.00		1.00	4219	DOL	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT		1.00													
43	LUMP SUM		LUMP SUM	4300	L.S.	SUPERSTRUCTURE - BRIDGE NO. 164/25		L.S.													
44	420.00		420.00	4410	L.F.	BRIDGE RAILING TYPE BP-12		420.00													
45	436.00		436.00	4415	L.F.	TRAFFIC BARRIER		436.00													
46	54.00		54.00	4121	L.F.	GEOSYNTHETIC WALL SINGLE SLOPE TRAFFIC BARRIER				31.00		23.00									
47	1060.00		1060.00	4480	S.F.	CONCRETE FASCIA PANEL FOR GEOSYNTHETIC WALL			110.00	490.00	110.00	350.00									
48	217.00		217.00	5656	S.Y.	BRIDGE APPROACH SLAB		217.00													
						SURFACING															
49	900.00		900.00	5100	TON	CRUSHED SURFACING BASE COURSE	900.00														
						CEMENT CONCRETE PAVEMENT															
50				7800	EACH	DELETED ITEM															
						HOT MIX ASPHALT															
51	1000.00		1000.00	5767	TON	HMA CL. 1/2 IN. PG 58H-22	1,000.00														
52	3300.00		3300.00	5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT	3,300.00														
53	5500.00		5500.00	5835	DOL	COMPACTION PRICE ADJUSTMENT	5,500.00														
54	1500.00		1500.00	5837	DOL	ASPHALT COST PRICE ADJUSTMENT	1,500.00														
55	-1.00		-1.00	6516	DOL	CYCLIC DENSITY PRICE ADJUSTMENT	-1.00														
						EROSION CONTROL AND ROADSIDE PLANTING															
56	80.00		80.00	6403	DAY	ESC LEAD	80.00														
57	163.00		163.00	6453	S.Y.	COMPOST BLANKET	163.00														
58	3963.00		3963.00	6500	L.F.	COMPOST SOCK	3,963.00														
59	LUMP SUM		LUMP SUM	6488	L.S.	EROSION CONTROL AND WATER POLLUTION PREVENTION	L.S.														
60	0.03		0.03	6414	ACRE	SEEDING, FERTILIZING, AND MULCHING	0.03														
61	4525.00		4525.00	6391	S.Y.	TOPSOIL TYPE A	4,525.00														
62	33.00		33.00	6552	EACH	PSIPE ALASKA YELLOW CEDAR, 18 IN. HT., #2 CONT.	33.00														
63	98.00		98.00	6552	EACH	PSIPE BIGLEAF MAPLE, 18 IN. HT., #2 CONT.	98.00														
64	87.00		87.00	6552	EACH	PSIPE DOUGLAS FIR, 18 IN. HT., #2 CONT.	87.00														
65	128.00		128.00	6552	EACH	PSIPE WESTERN RED CEDAR, 18 IN. HT., #2 CONT.	128.00														
66	332.00		332.00	6552	EACH	PSIPE INDIAN PLUM, 12 IN. HT., #1 CONT.	332.00														
67	257.00		257.00	6552	EACH	PSIPE LADY FERN, #1 CONT.	257.00														
68	200.00		200.00	6552	EACH	PSIPE OCEANSPRAY, 12 IN. HT., #1 CONT.	200.00														
69	37.00		37.00	6552	EACH	PSIPE TALL OREGON GRAPE, 12 IN. HT., #1 CONT.	37.00														
70	141.00		141.00	6552	EACH	PSIPE SCOULER'S WILLOW, 12 IN. HT., #1 CONT.	141.00														
71	141.00		141.00	6552	EACH	PSIPE RED-OSIER DOGWOOD, 12 IN. HT., #1 CONT.	141.00														
72	37.00		37.00	6552	EACH	PSIPE SALAL, 12 IN. HT., #1 CONT.	37.00														
73	141.00		141.00	6552	EACH	PSIPE SALMONBERRY, #1 CONT.	141.00														
74	112.00		112.00	6552	EACH	PSIPE DOUGLAS SPIRAEA, LIVE STAKE	112.00														
75	119.00		119.00	6552	EACH	PSIPE SITKA WILLOW, LIVE STAKE	119.00														
76	119.00		119.00	6552	EACH	PSIPE PACIFIC NINEBARK, LIVE STAKE	119.00														
77	409.00		409.00	6552	EACH	PSIPE SNOWBERRY, #1 CONT.	409.00														
78	406.00		406.00	6552	EACH	PSIPE THIMBLEBERRY, 12 IN. HT., #1 CONT.	406.00														

GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	164	171840	**	STATE - CWA
	2	164	171840	**	STATE

11/18/20	REVISED ITEMS 14 AND 37, DELETED ITEMS 50 AND 105	JL	REGION	STATE	FEDERAL AID PROJECT. NO.	Washington State Department of Transportation	SR 164 PUSSYFOOT CREEK FISH PASSAGE	SQ2
11/18/20	ADDED ITEMS 134-146	JL	10	WA				
		JOB NUMBER 19A031/5						
		CONTRACT NO 009609						
DATE	REVISION	BY						
							SUMMARY OF QUANTITIES	

SUMMARY OF QUANTITIES

[illegible]

GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	164	171840	**	STATE - CWA
	2	164	171840	**	STATE

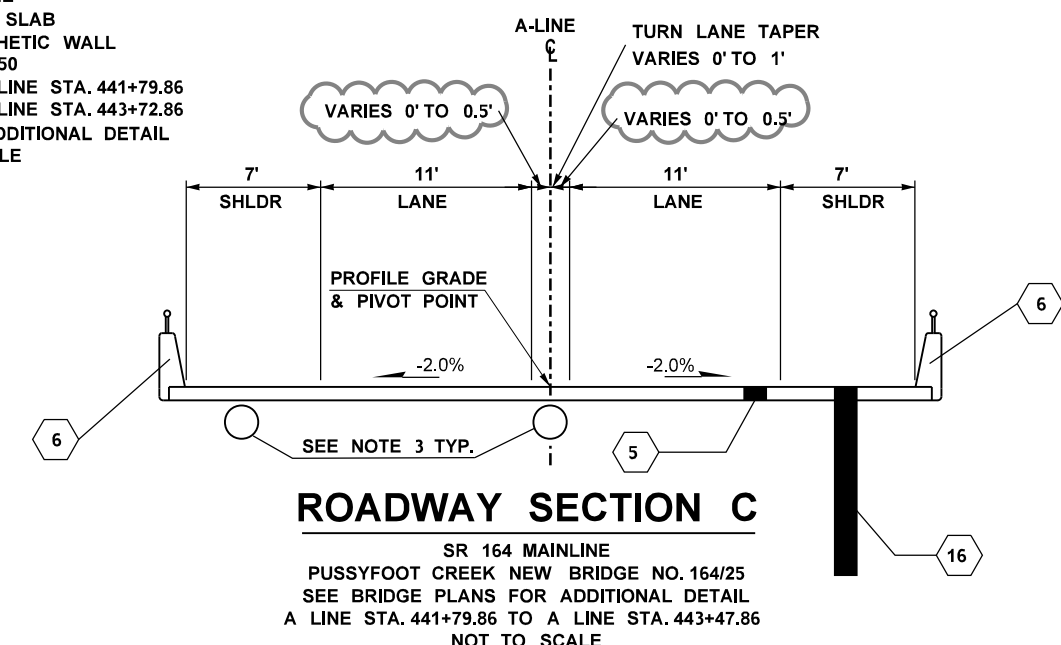
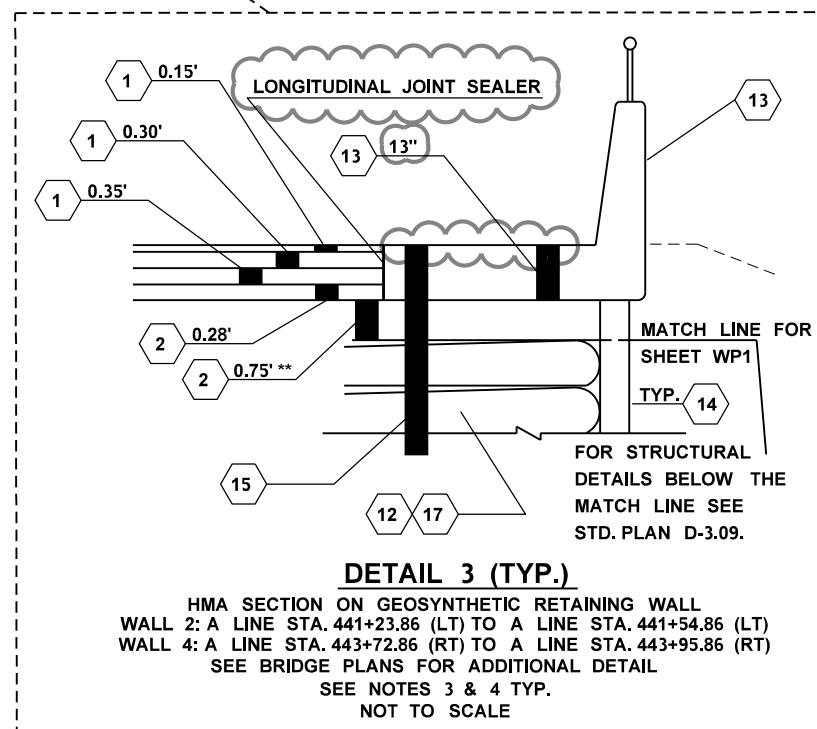
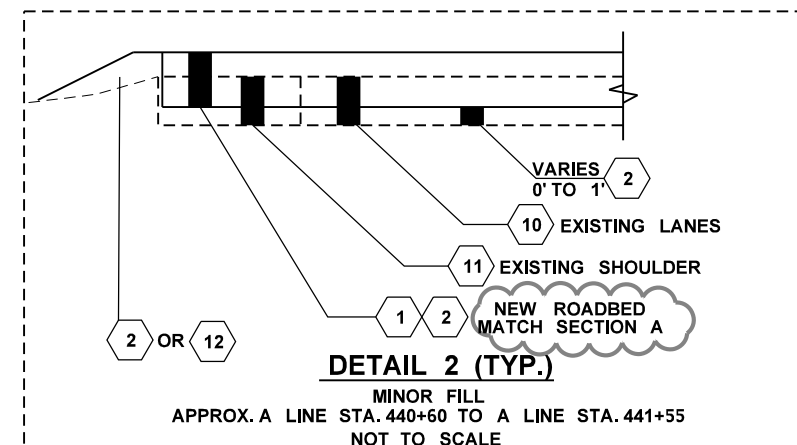
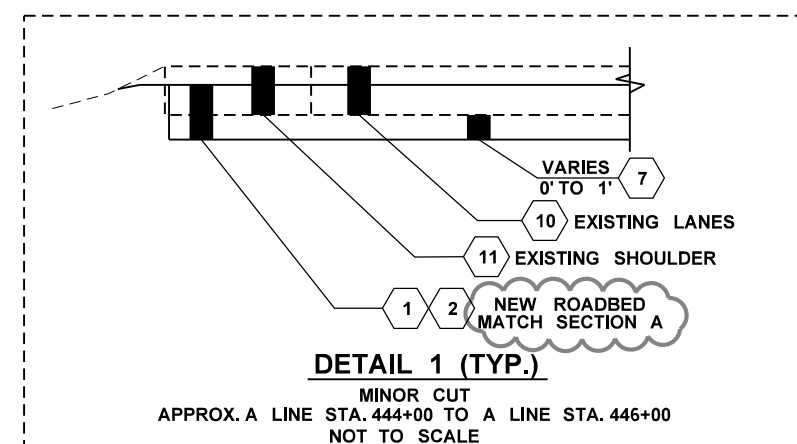
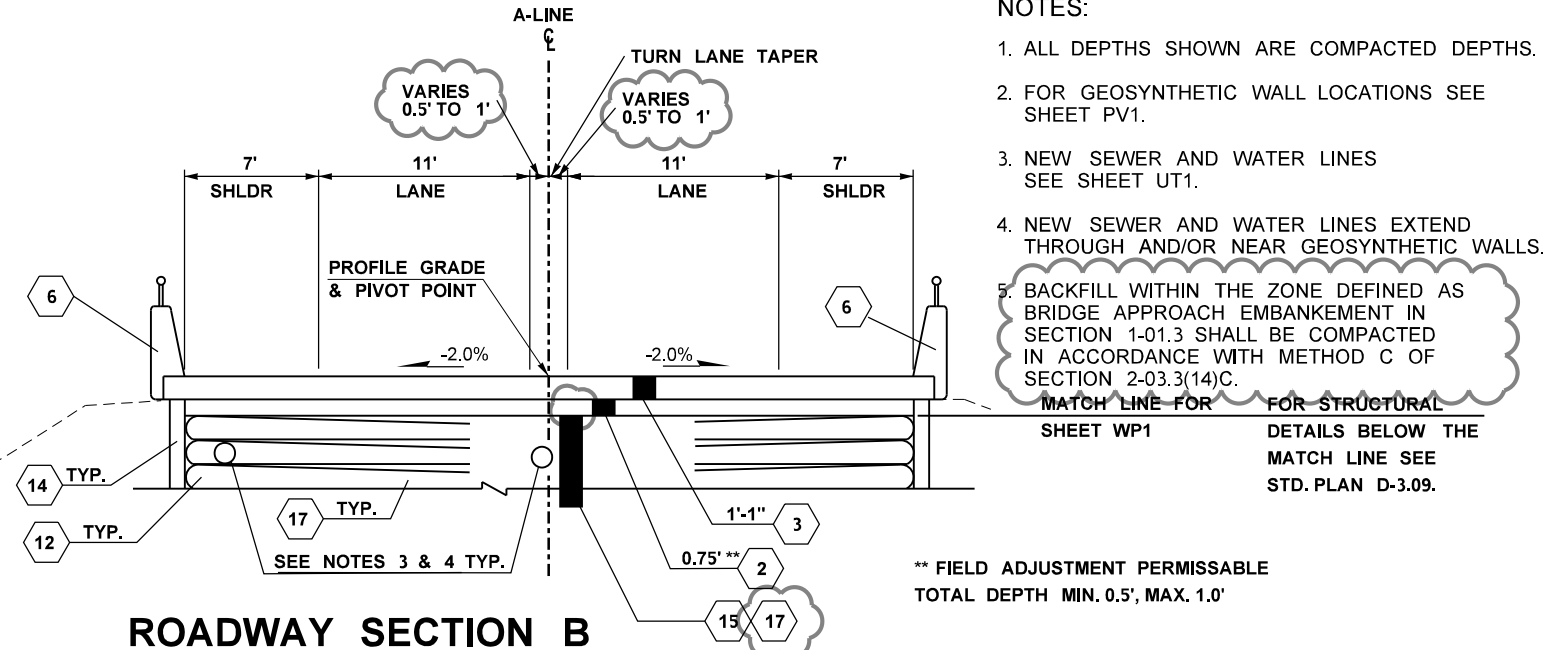
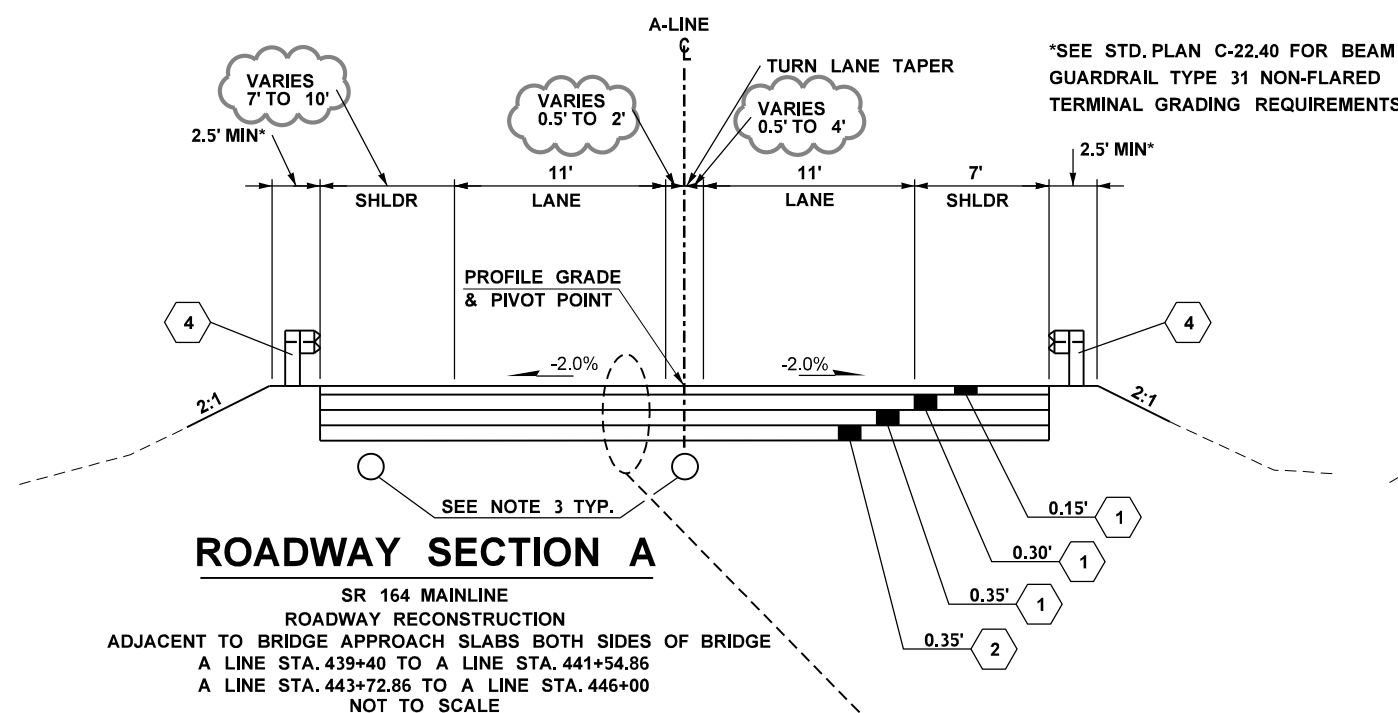
11/18/20	REVISED ITEMS 14 AND 37, DELETED ITEMS 50 AND 105	JL	REGION	STATE	FEDERAL AID PROJECT. NO.	Washington State Department of Transportation	SR 164 PUSSYFOOT CREEK FISH PASSAGE	SQ3
11/18/20	ADDED ITEMS 134-146	JL	10	WA				
			JOB NUMBER 19A031/5					SUMMARY OF QUANTITIES
			CONTRACT NO 009609					
DATE	REVISION	BY						

SUMMARY OF QUANTITIES

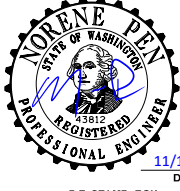

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GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	164	171840	**	STATE - CWA
	2	164	171840	**	STATE

11/18/20	REVISED ITEMS 14 AND 37, DELETED ITEMS 50 AND 105	JL	REGION	STATE	FEDERAL AID PROJECT. NO.	Washington State Department of Transportation	SR 164 PUSSYFOOT CREEK FISH PASSAGE	SQ4	
11/18/20	ADDED ITEMS 134-146	JL	10	WA					SHEET 6
			JOB NUMBER 19A031/5					OF	
			CONTRACT NO 009609					100	
DATE	REVISION	BY						SUMMARY OF QUANTITIES	SHEETS



LEGEND					
1	HMA CL. 1/2 IN. PG 58H-22	7	ROADWAY EXCAVATION INCL. HAUL	13	TRAFFIC BARRIER WITH MOMENT SLAB SEE BRIDGE PLANS
2	CRUSHED SURFACING BASE COURSE	8	EMBANKMENT COMPACTION	14	PRECAST GEOSYNTHETIC WALL FASCIA STD. PLAN D-3.11
3	BRIDGE APPROACH SLAB	9	GRAVEL BORROW INCL. HAUL	15	STRUCTURE EXCAVATION CLASS A INCL. HAUL
4	BEAM GUARDRAIL TYPE 31 (STEEL POST) SEE SHEET PV1	10	REMOVING CEMENT CONC. PAVEMENT	16	CHANNEL EXCAVATION INCL. HAUL
5	BRIDGE DECK	11	REMOVING ASPHALT CONC. PAVEMENT	17	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL
6	TRAFFIC BARRIER	12	GEOSYNTHETIC RETAINING WALL		

FILE NAME	c:\users\monkenc\pw_wsdot\1022211\XL5186_PS_RS.dgn	REGION NO.	STATE	FED.AID PROJ.NO.		DATE	P.E. STAMP BOX	 Washington State Department of Transportation	SR 164 PUSSYFOOT CREEK FISH PASSAGE ROADWAY SECTION	PLAN REF NO RS1 SHEET 7 OF 100 SHEETS
TIME	2:03:50 PM	10	WASH							
DATE	11/10/2020									
PLOTTED BY	monkenc									
DESIGNED BY	M. RILLING									
ENTERED BY	M. RILLING									
CHECKED BY	B. ALLEN									
PROJ. ENGR.	N. PEN	MISCELLANEOUS CALL OUT REVISIONS		11/18/2020	JD					
REGIONAL ADM.	M. COTTEN	REVISION		DATE	BY					

S 12 T.20N. R.5E. W.M.

CURVE DATA						
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING BCK	BEARING AHD
PC 11+11.91	33°12'35" RT	200'	59.64'	115.92'	N 22°07'47" E	N 55°20'21" E
PC 12+22.18	30°12'50" LT	200'	53.99'	105.47'	N 55°20'21" E	N 25°07'31" E
PC 13+27.07	67°27'49" RT	80'	53.42'	94.20'	N 25°07'31" E	N 87°24'40" E

CONTROL POINTS						
ID	NORTHING	EASTING	STATION	OFFSET	ELEVATION	COMMENT
17164-100	416090.472	1652275.931	A 440+38.25	22.77' LT	494.44'	REBAR AND CAP
17164-101	415576.424	1652415.709	A 445+67.57	37.29' RT	496.94'	REBAR AND CAP

ALIGNMENT POINTS				
ALIGNMENT	DESCRIPTION	NORTHING	EASTING	STATION
A-LINE*	SR 164	415652.99	1652425.40	A 445+00.00 P.O.T.
PC-LINE	CREEK	415695.52	1652204.70	PC 10+00.00 P.O.B.
T-LINE	TRAIL	415937.54	1652428.27	T 20+00.00 P.O.B.

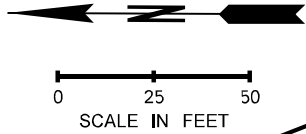
* = RW LINE

LEGEND

	ROAD CENTERLINE
	STREAM CENTERLINE
	CURVE TANGENT
	EXISTING EDGE OF PAVEMENT
	WSDOT R/W
	TEMP. CONSTRUCTION EASEMENT
	PRIMARY CONTROL POINT



(NAVD) 88
NAD 83/11



SCALE IN FEET

MUCKLESHOOT INDIAN RESERVATION

NOTES:

1. THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE PLANE COORDINATE SYSTEM NORTH ZONE (NAD 83/11)
2. THE DISTANCES SHOWN ARE GROUND DIMENSIONS. TO OBTAIN THE GRID DIMENSIONS MULTIPLY THE GROUND DIMENSION BY THE COMBINED FACTOR OF 1.00003570. THE COMBINED FACTOR IS DERIVED BY MULTIPLYING THE ELEVATION FACTOR OF 0.999973432 BY THE SCALE FACTOR OF 1.000062270.
3. RIGHT OF WAY AND CONSTRUCTION CENTERLINES ARE ONE AND THE SAME.

A 441+00.0
(130.0' LT.)

CP 17164-100

BEGIN PROJECT
SR 164 MP 8.20
A STA. 438+70 =
RW STA. 438+70

A 442+45.0
(280.0' LT.)

A 443+00.0
(265.0' LT.)

TEMPORARY
CONSTRUCTION
EASEMENT

PC 14+14.80 P.O.E.
= A 442+40.42 (168.64 LT) P.O.T.

A 444+50.0
(130.0' LT.)

WSDOT R/W

A 444+50.0
(50.0' LT.)

PC 13+67.85 P.T.
(130.0' LT.)

S 10°24'33" W
T 20+00.00 P.O.B.

T 20+51.23 P.I.

T 22+22.01 P.O.E.

TRAIL

S 1°45'11" E

A 445+00.00 P.O.T.

CP 17164-101

END PROJECT
SR 164 MP 8.30
A STA. 446+20 =
RW STA. 446+20

PC 13+27.07 P.I.

PC 12+73.66 P.R.C.

A 441+79.86
BK. OF PAV'T SEAT

A 442+63.86 P.O.T. =
PC 12+26.09 P.O.C.

PC 11+68.19 P.R.C.

PC 12+22.18 P.I.

A 443+47.86
BK. OF PAV'T SEAT

A 444+50.0
(50.0' RT.)

A 444+50.0
(140.0' RT.)

WSDOT R/W

TEMPORARY
CONSTRUCTION
EASEMENT

A 445+20.0
(245.0' RT.)

A 444+95.0
(285.0' RT.)

PC 10+00.00 P.O.B.
= A 443+78.94 (189.37 RT) P.O.T.

PC 10+52.27 P.C.

A 442+30.0
(140.0' RT.)

A 441+00.0
(140.0' RT.)

A 441+00.0
(50.0' RT.)

MUCKLESHOOT INDIAN RESERVATION

FILE NAME c:\users\rillinn\pw_wsdot\0122211\XL5186_PS_AL1.dgn

TIME 9:26:46 AM

DATE 10/9/2020

PLOTTED BY RillinnM

DESIGNED BY M. RILLING

ENTERED BY M. RILLING

CHECKED BY B. ALLEN

PROJ. ENGR. N. PEN

REGIONAL ADM. M. COTTEN

REVISION

DATE

BY

REGION
NO. 10

STATE
WASH

JOB NUMBER
19A031

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.



DATE 10/12/2020

P.E. STAMP BOX

DATE

P.E. STAMP BOX



Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE

ALIGNMENT AND RIGHT OF WAY PLAN

PLAN REF NO
AL1

SHEET
8
OF
100
SHEETS

[illegible]

GENERAL LEGEND	
	WSDOT RIGHT OF WAY
	TEMP. CONSTRUCTION EASEMENT
	RIGHT OF WAY CENTERLINE
	EXISTING GUARDRAIL
	EXISTING FENCE
	REMOVING EXISTING CULVERT
	EXISTING DITCH
	EXISTING CATCH BASIN
	REMOVING CEMENT CONC. PAVEMENT
	REMOVING ASPHALT CONC. PAVEMENT
	FILL
	CUT
	CG
	OHW
	STREAM BUFFER
	EXISTING TREE / TREE STUMP
	PRESERVE/PROTECT EXISTING TREE
	EXISTING HP GAS LINE
	DEACTIVATED HP GAS LINE
	EXISTING BURIED POWER
	EXISTING WATER LINE
	EXISTING SANITARY SEWER LINE
	EXISTING SEWER MANHOLE
	EXISTING SEWER CLEANOUT
	EXISTING WATER VALVE
	EXISTING POWER POLE
	EXISTING UTILITY DOWN GUY

	SENSITIVE AREA SITE BOUNDARY
	SURVEY BREAK LINE
	EXISTING LUMINAIRE
	EXISTING JUNCTION BOX
	BORE HOLE / POTHOLE (p = piezometer)
	EDGE OF ROADWAY
	EXISTING LANE LINE
	EXISTING DOUBLE YELLOW CENTERLINE
	COMPOST SOCK FOR TESC SHEET QTSP1
	HVF
	DIRECTION OF FLOW
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	EXISTING CABLE GATE
	EXISTING CONTROL POINT
	QUANTITY TABULATION NOTE
	EXISTING SIGN

RELOCATE EXISTING WATER & SANITARY SEWER LINES
SEE UTILITY PLAN

SENSITIVE AREA SITE BOUNDARY
SEE SPECIAL PROVISION "ENVIRONMENTAL COMMITMENTS"

EXISTING SANITARY SEWER PUMP STATION
CONTRACTOR SHALL NOT DISTURB

HILLSIDE SPRING
DO NOT DISTURB

MUCKLESHOOT INDIAN RESERVATION

LOG WALL
DO NOT DISTURB

TEMP. CONSTRUCTION EASEMENT

WSDOT R/W

HIGH VISIBILITY FENCE SCHEDULE SEE NOTE 4

SP1-18	SP1-19	SP1-20	SP1-22
A 442+42.9 (139.1 LT)	A 441+35.0 (24.7 RT)	A 441+08.3 (30.7 LT)	A 443+55.7 (128.8 RT)
A 442+71.44 (110.6 LT)	A 441+60.8 (24.9 RT)	A 441+21.9 (41.9 LT)	A 443+70.0 (104.5 RT)
A 444+56.1 (40.5 LT)	A 441+66.7 (48.1 RT)	A 441+29.8 (57.2 LT)	A 443+85.3 (83.3 RT)
	A 441+75.2 (58.1 RT)	A 441+62.0 (74.3 LT)	A 444+01.6 (67.8' RT)
	A 441+93.3 (63.4 RT)	A 441+78.2 (92.1 LT)	A 444+83.7 (29.9 RT)
	A 442+36.1 (88.3 RT)	A 442+05.2 (133.3 LT)	
	A 443+04.0 (163.0 RT)		

NOTES (CONTINUED):

- COMPOST SOCK SHALL BE PLACED AT A MINIMUM 1 FOOT OFFSET INSIDE HIGH VISIBILITY FENCE.
- COMPOST SOCK PLACEMENT SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL ADJUST COMPOST SOCK LOCATION IN ACCORDANCE WITH PROJECT PERMITS.

NOTES:

- PRIOR TO EXCAVATION ACTIVITIES THE CONTRACTOR SHALL REFERENCE EXISTING PAVEMENT MARKINGS IN ACCORDANCE WITH "REFERENCING EXISTING PAVEMENT MARKINGS" IN THE SPECIAL PROVISIONS.
- TO THE EXTENT PRACTICAL THE CONTRACTOR SHALL PRESERVE & PROTECT ALL TREES IN THE IMMEDIATE PROXIMITY OF THE CLEARING AND GRUBBING LIMITS.
- SEE SPECIAL PROVISION "CLEARING" FOR INFORMATION ON USE AND HANDLING OF FELLED TREES.

CONCRETE PANEL
WIDTH = 22' TYP.

BEGIN PROJECT
SR 164 MP 8.20
A STA. 438+70

END PROJECT
SR 164 MP 8.30
A STA. 446+20

MUCKLESHOOT INDIAN RESERVATION

0 25 50
SCALE IN FEET

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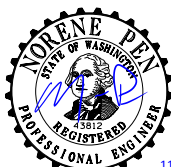
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DATE 11/10/2020
PLOTTER BY rillm
DESIGNED BY M. RILLING
ENTERED BY M. RILLING
CHECKED BY B. ALLEN
PROJ. ENGR. N. PEN
REGIONAL ADM. M. COTTEN

DELETED NOTES 11/18/2020 JD
REVISION DATE BY

REGION NO. 10
STATE WASH
JOB NUMBER 19A031
CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.



11/10/2020
DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX



SR 164
PUSSYFOOT CREEK
FISH PASSAGE

SITE PREP / TESC PLAN

PLAN REF NO
SP1

SHEET
10
OF
100
SHEETS

LEGEND			
	WSDOT RIGHT OF WAY		FILL
	TEMP. CONSTRUCTION EASEMENT		CUT
	EDGE OF ROADWAY		CG
	RIGHT OF WAY CENTERLINE		OHW
	STREAM CENTERLINE		EXISTING TREE/STUMP
	EXISTING CULVERT		SURVEY BREAK LINE
	EXISTING DITCH		STREAM BUFFER
	EXISTING GUARDRAIL		FLOW
	EXISTING FENCE		SENSITIVE AREA SITE BOUNDARY
			GRADING FILL LIMITS
			GRADING CUT LIMITS
			CLEARING AND GRUBBING LIMITS
			ORDINARY HIGH WATER LINE

IMPACT QUANTITIES		
EXISTING CONDITION	PUSSYFOOT	
BUFFER DISTANCE	165 FT	
PERMANENT STREAM IMPACT*	7840 SF	0.18 ACRE
PERMANENT STREAM IMPACT**	2500 SF	0.06 ACRE
TEMPORARY STREAM IMPACT	7130 SF	0.17 ACRE
PERMANENT STREAM BUFFER IMPACT	5010 SF	0.12 ACRE
TEMPORARY STREAM BUFFER IMPACT	3390 SF	0.08 ACRE

* OUTSIDE PIPE
**INSIDE PIPE

MUCKLESHOOT
INDIAN RESERVATION

TEMP. CONSTRUCTION
EASEMENT

WSDOT R/W

END PROJECT
SR 164 MP 8.30
A STA. 446+20

MUCKLESHOOT
INDIAN RESERVATION

0 25 50
SCALE IN FEET

BEGIN PROJECT
SR 164 MP 8.20
A STA. 438+70



P.E. STAMP BOX

P.E. STAMP BOX

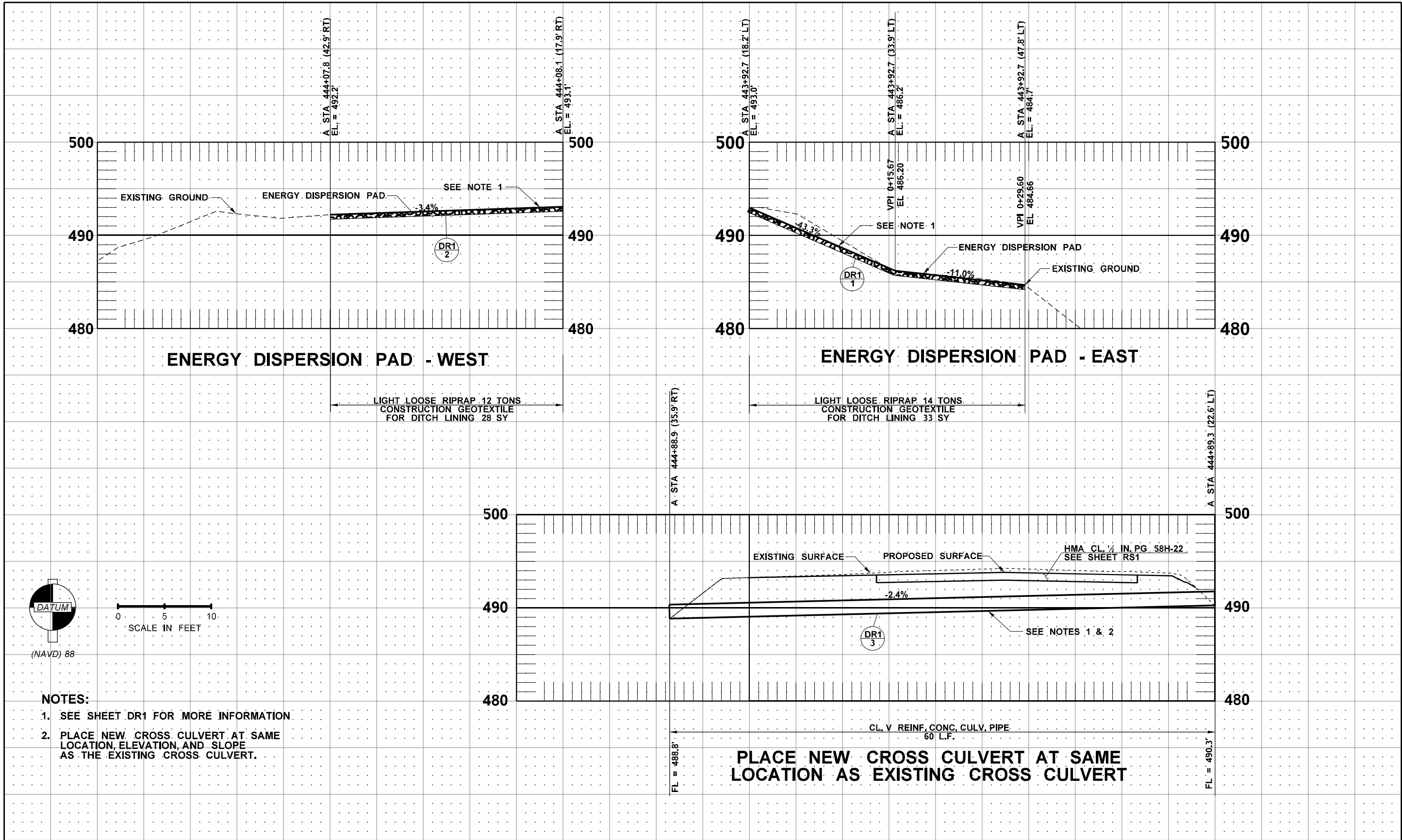




SR 164
PUSSYFOOT CREEK
FISH PASSAGE
ENVIRONMENTAL COMPLIANCE PLAN

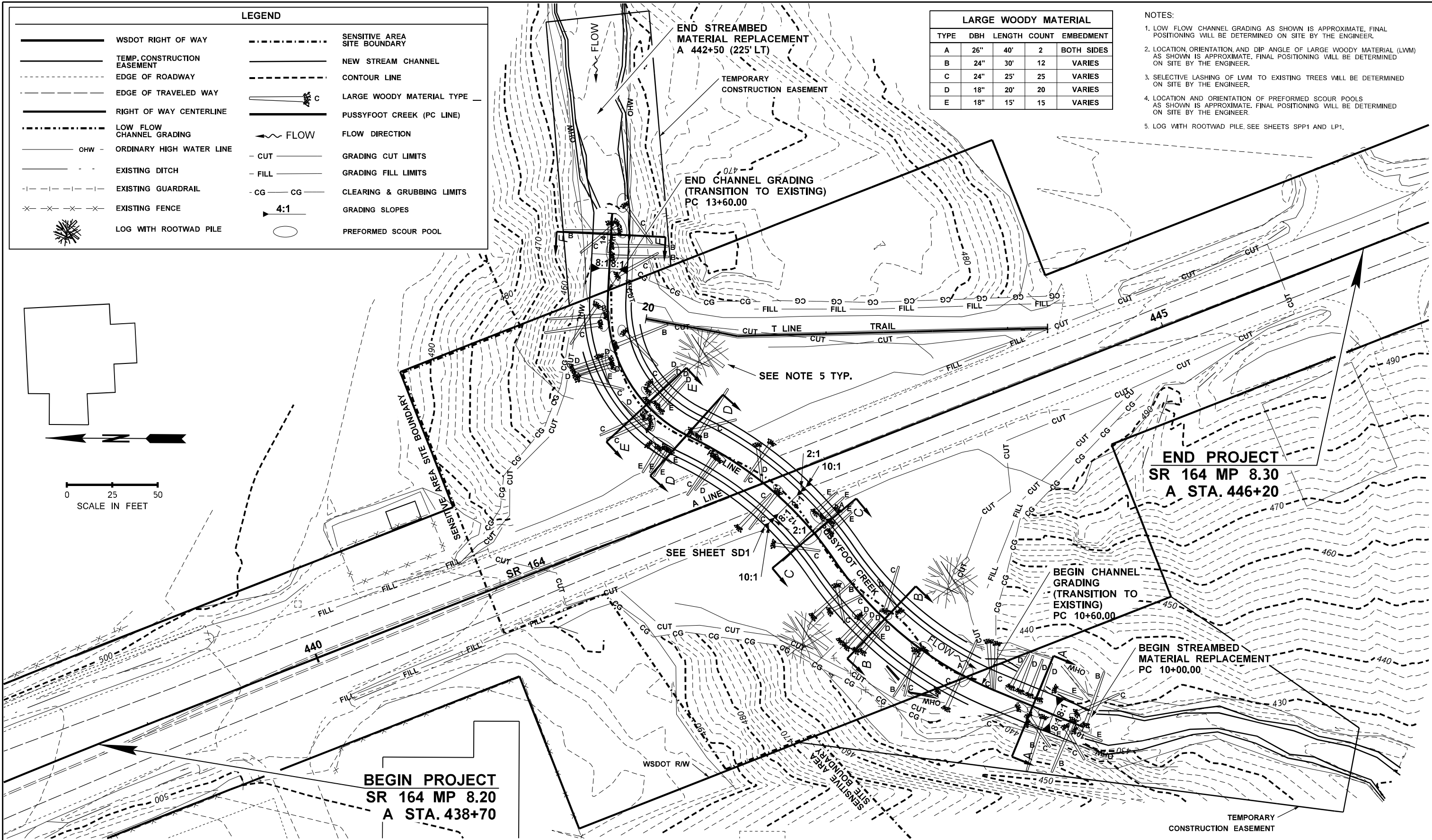
PLAN REF NO
EC1




SHEET
12
OF
100
SHEETS

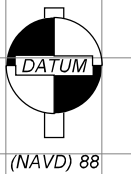
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TIME	9:33:20 AM				10	WASH	
DATE	10/9/2020						
PLOTTED BY	RlillinM						
DESIGNED BY	M. RILLING						
ENTERED BY	M. RILLING						
CHECKED BY	B. ALLEN						
PROJ. ENGR.	N. PEN						
REGIONAL ADM.	M. COTTEN						
	REVISION	DATE	BY		JOB NUMBER	CONTRACT NO.	LOCATION NO.
					19A031		



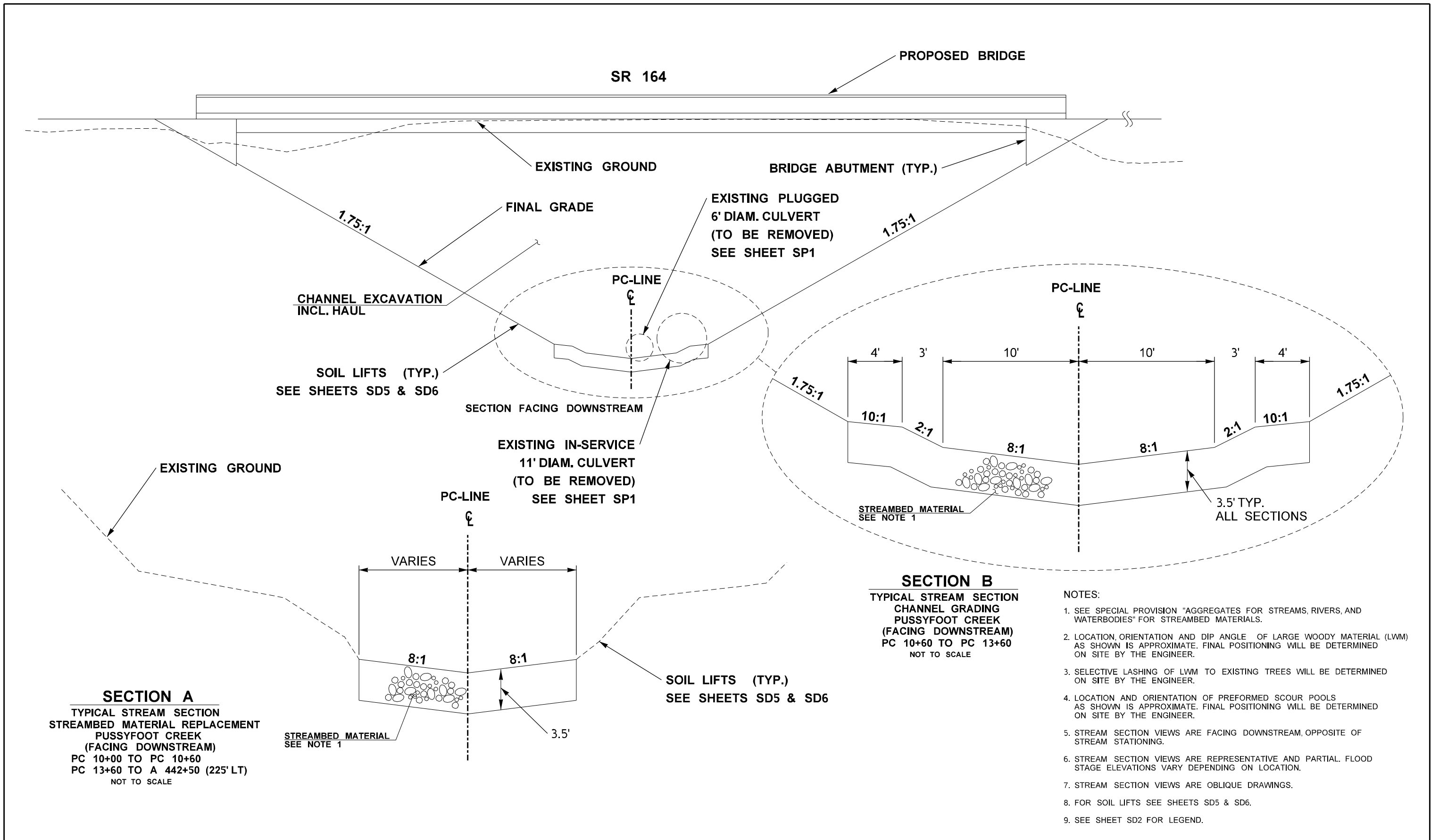
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TIME 7:03:03 AM		10 WASH																
DATE 10/1/2020		JOB NUMBER 19A031																
PLOTTED BY oneills		CONTRACT NO.		LOCATION NO.														
DESIGNED BY S. P. O'NEILL						P.E. STAMP BOX		PAD AND CROSS CULVERT PROFILES		SHEET 14 OF 100 SHEETS								
ENTERED BY S. P. O'NEILL																		
CHECKED BY B. ALLEN																		
PROJ. ENGR. N. PEN																		
REGIONAL ADM. M. COTTEN		REVISION		DATE BY														



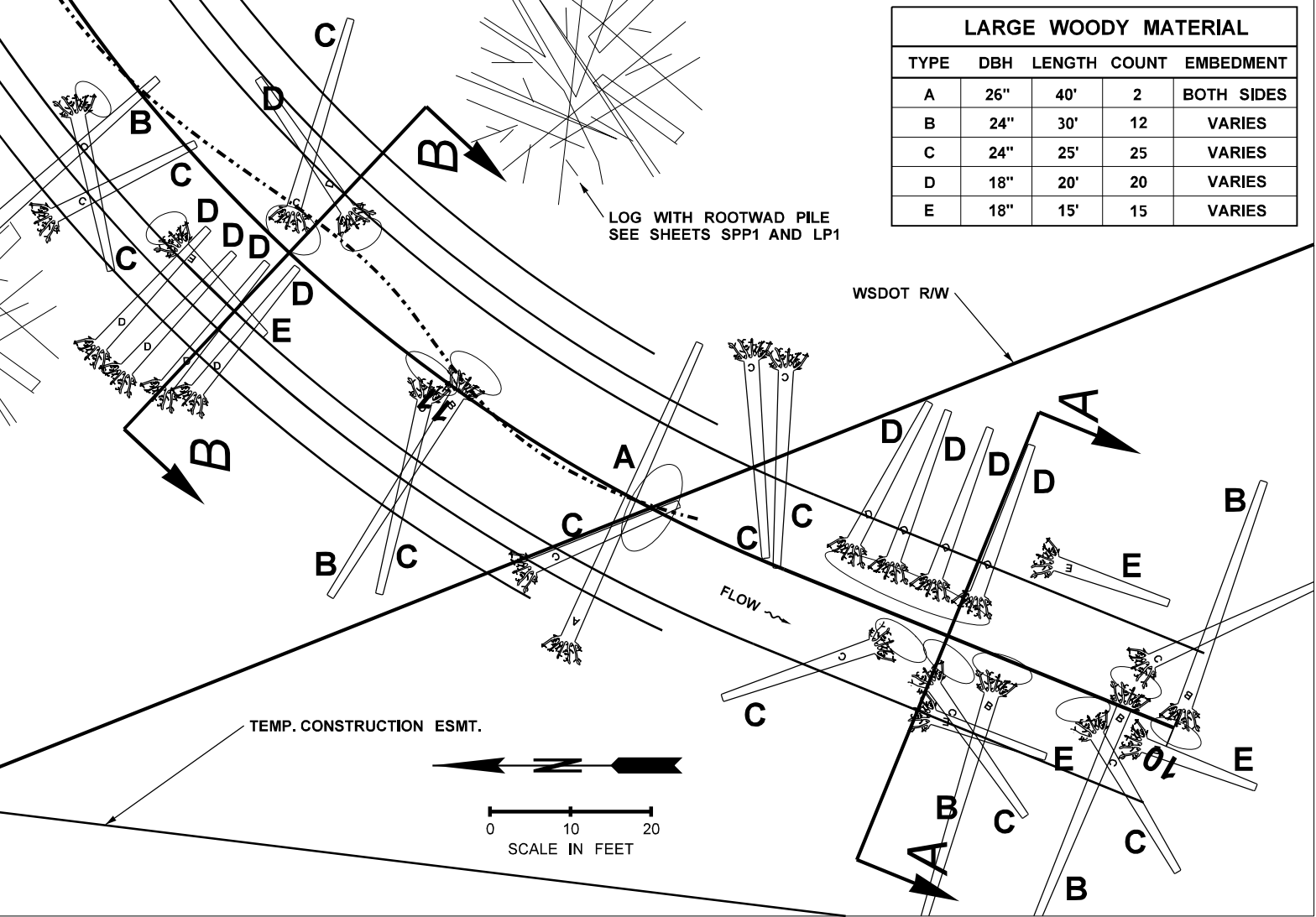
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TIME 9:35:12 AM	DATE 10/9/2020	DESIGNED BY M. RILLING	ENTERED BY M. RILLING	CHECKED BY J. HEILMAN	PROJ. ENGR. N. PEN					



SHEET
16
OF
100
SHEETS



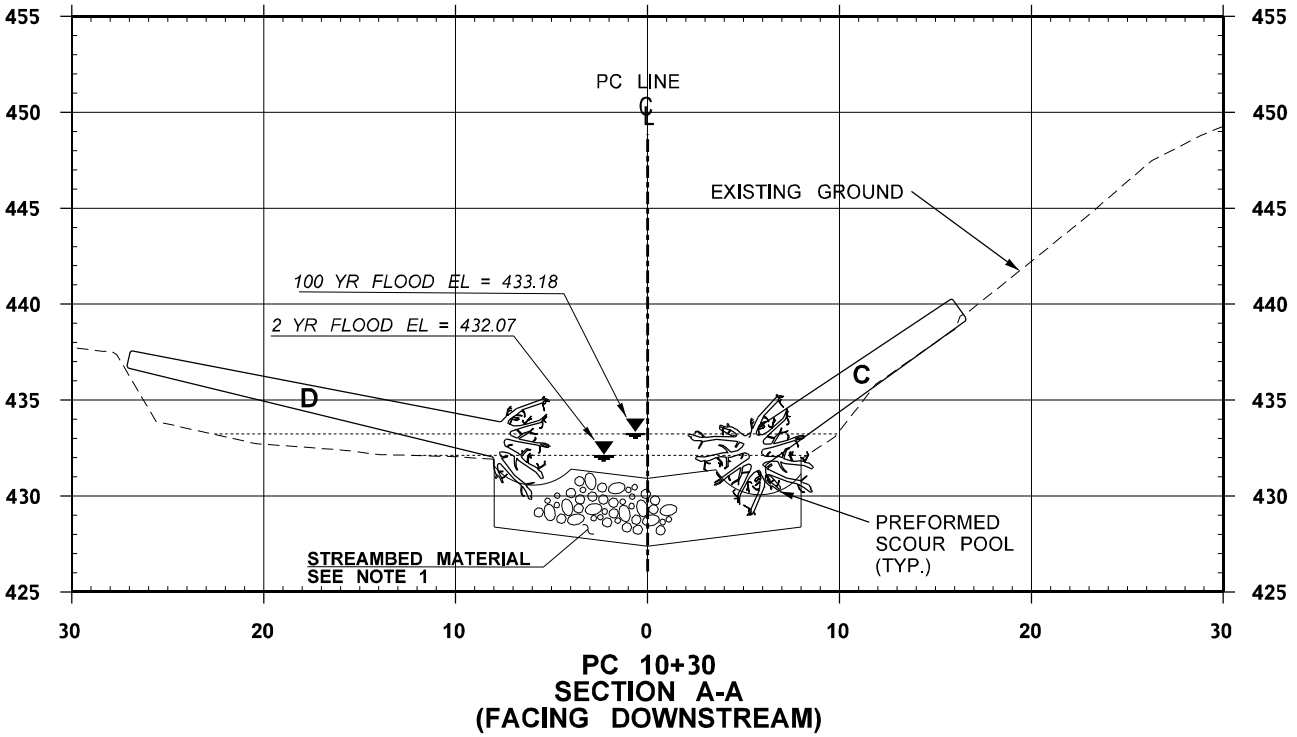
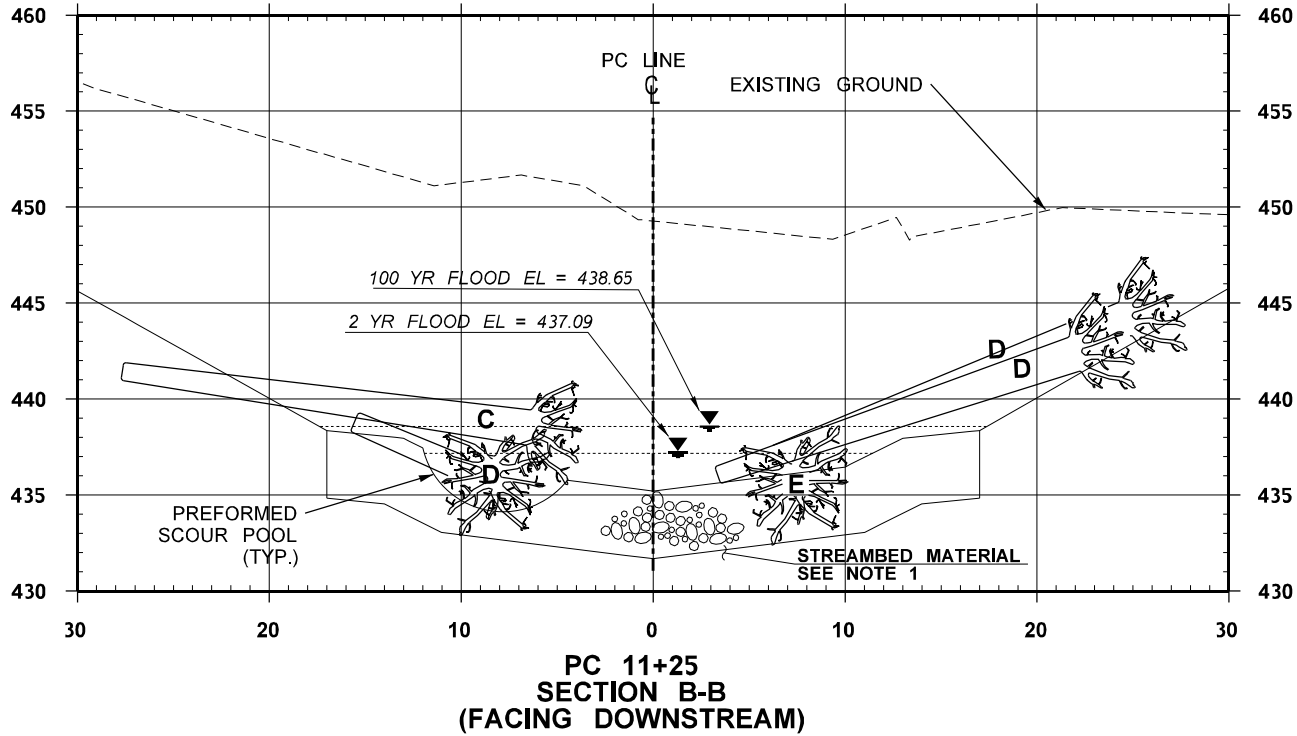
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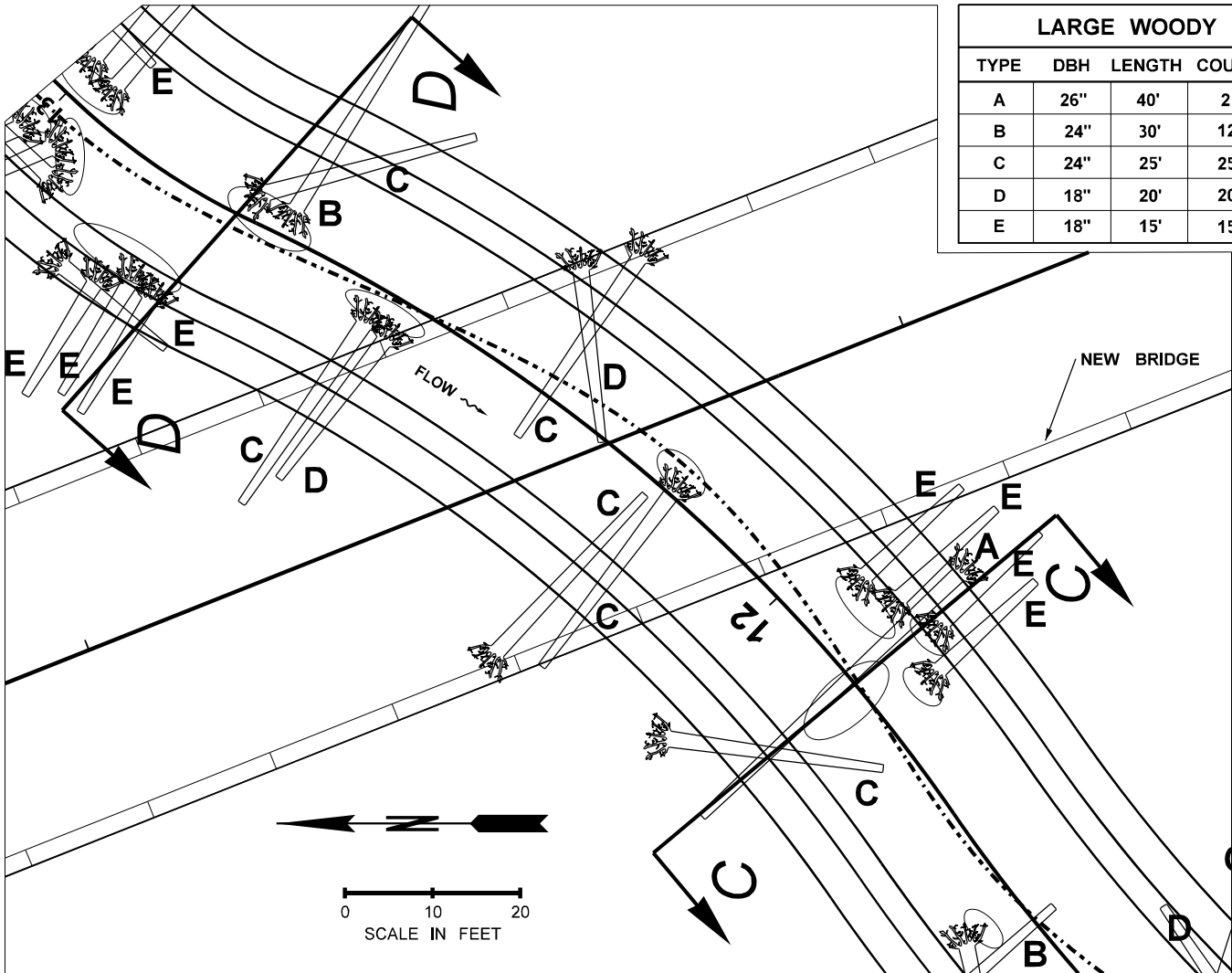
LARGE WOODY MATERIAL				
TYPE	DBH	LENGTH	COUNT	EMBEDMENT
A	26"	40'	2	BOTH SIDES
B	24"	30'	12	VARIES
C	24"	25'	25	VARIES
D	18"	20'	20	VARIES
E	18"	15'	15	VARIES

LEGEND	
	WSDOT RIGHT OF WAY
	TEMP. CONSTRUCTION EASEMENT
	RIGHT OF WAY CENTERLINE
	LOW FLOW CHANNEL GRADING
	PUSSYFOOT CREEK (PC LINE)
	NEW STREAM CHANNEL
	LARGE WOODY MATERIAL TYPE C
	FLOW DIRECTION
	PREFORMED SCOUR POOL
	NEW BRIDGE RAIL

- NOTES:
- SEE SPECIAL PROVISION "AGGREGATES FOR STREAMS, RIVERS, AND WATERBODIES" FOR STREAMBED MATERIALS.
 - LOCATION, ORIENTATION, AND DIP ANGLE OF LARGE WOODY MATERIAL (LWM) AS SHOWN IS APPROXIMATE. FINAL POSITIONING WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - SELECTIVE LASHING OF LWM TO EXISTING TREES WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - LOCATION AND ORIENTATION OF PREFORMED SCOUR POOLS AS SHOWN IS APPROXIMATE. FINAL POSITIONING WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - STREAM SECTION VIEWS ARE FACING DOWNSTREAM, OPPOSITE OF STREAM STATIONING.
 - STREAM SECTION VIEWS ARE REPRESENTATIVE AND PARTIAL. FLOOD STAGE ELEVATIONS VARY DEPENDING ON LOCATION.
 - STREAM SECTION VIEWS ARE OBLIQUE DRAWINGS.
 - FOR SOIL LIFTS SEE SHEETS SD5 & SD6.
 - SEE SHEET SD1 FOR DIMENSIONS AND SLOPES.



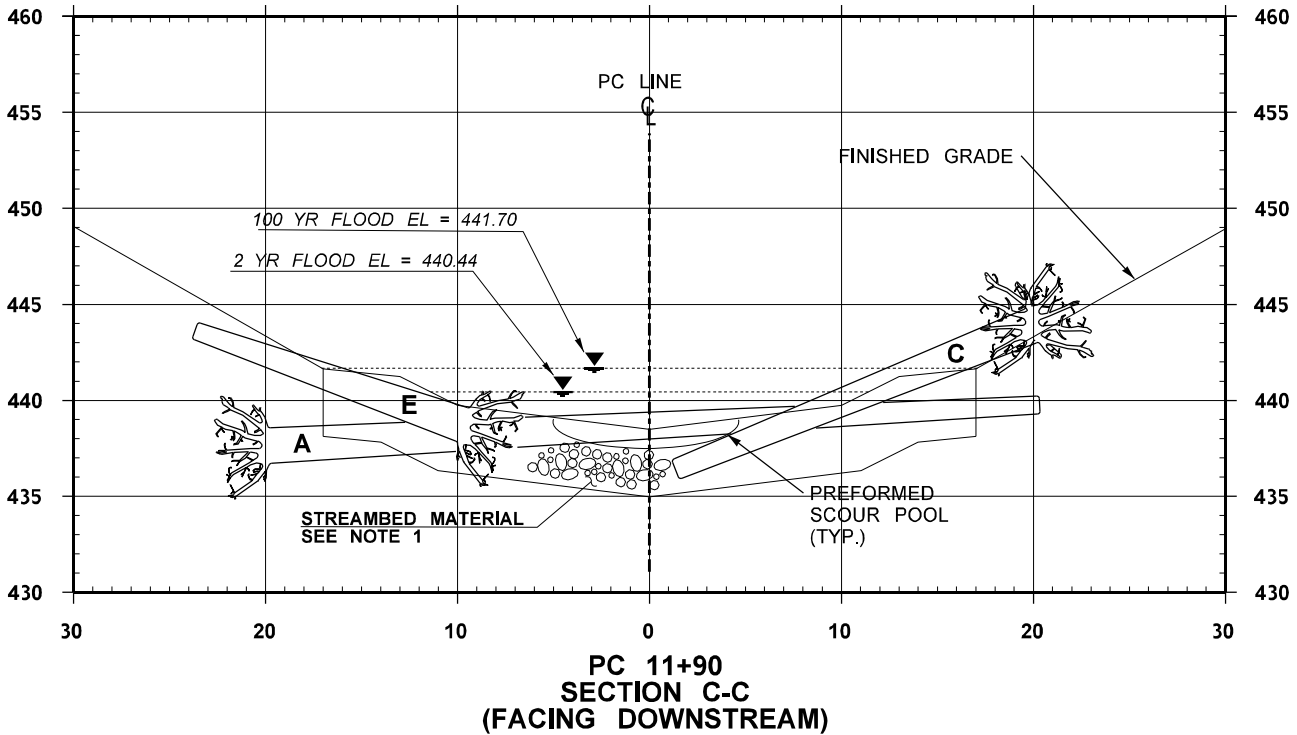
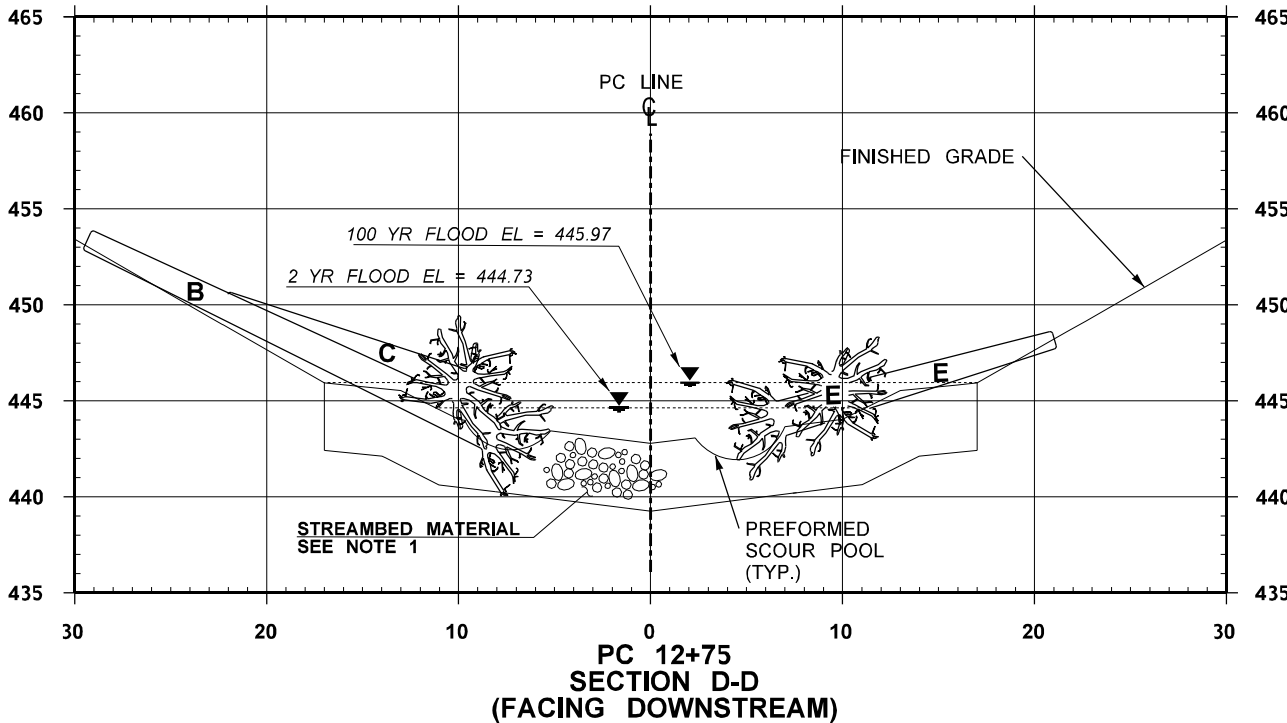
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TIME 9:44:41 AM	DATE 10/9/2020	DESIGNED BY M. RILLING	ENTERED BY M. RILLING	CHECKED BY J. HEILMAN	PROJ. ENGR. N. PEN					REGIONAL ADM. M. COTTEN	REVISION	DATE



LARGE WOODY MATERIAL				
TYPE	DBH	LENGTH	COUNT	EMBEDMENT
A	26"	40'	2	BOTH SIDES
B	24"	30'	12	VARIES
C	24"	25'	25	VARIES
D	18"	20'	20	VARIES
E	18"	15'	15	VARIES

LEGEND	
	WSDOT RIGHT OF WAY
	TEMP. CONSTRUCTION EASEMENT
	RIGHT OF WAY CENTERLINE
	LOW FLOW CHANNEL GRADING
	PUSSYFOOT CREEK (PC LINE)
	NEW STREAM CHANNEL
	LARGE WOODY MATERIAL TYPE C
	FLOW DIRECTION
	PREFORMED SCOUR POOL
	NEW BRIDGE RAIL

- NOTES:
- SEE SPECIAL PROVISION "AGGREGATES FOR STREAMS, RIVERS, AND WATERBODIES" FOR STREAMBED MATERIALS.
 - LOCATION, ORIENTATION, AND DIP ANGLE OF LARGE WOODY MATERIAL (LWM) AS SHOWN IS APPROXIMATE. FINAL POSITIONING WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - SELECTIVE LASHING OF LWM TO EXISTING TREES WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - LOCATION AND ORIENTATION OF PREFORMED SCOUR POOLS AS SHOWN IS APPROXIMATE. FINAL POSITIONING WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - STREAM SECTION VIEWS ARE FACING DOWNSTREAM, OPPOSITE OF STREAM STATIONING.
 - STREAM SECTION VIEWS ARE REPRESENTATIVE AND PARTIAL. FLOOD STAGE ELEVATIONS VARY DEPENDING ON LOCATION.
 - STREAM SECTION VIEWS ARE OBLIQUE DRAWINGS.
 - FOR SOIL LIFTS SEE SHEETS SD5 & SD6.
 - SEE SHEET SD1 FOR DIMENSIONS AND SLOPES.



FILE NAME	c:\users\rillinn\pw_wsdot\d0122211\XL5186_PS_SD.dgn
TIME	9:44:42 AM
DATE	10/9/2020
PLOTTED BY	RillinnM
DESIGNED BY	M. RILLING
ENTERED BY	M. RILLING
CHECKED BY	J. HEILMAN
PROJ. ENGR.	N. PEN
REGIONAL ADM.	M. COTTEN

REVISION

DATE

BY

REGION NO.
10

STATE

WASH

JOB NUMBER
19A031

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.



P.E. STAMP BOX



P.E. STAMP BOX

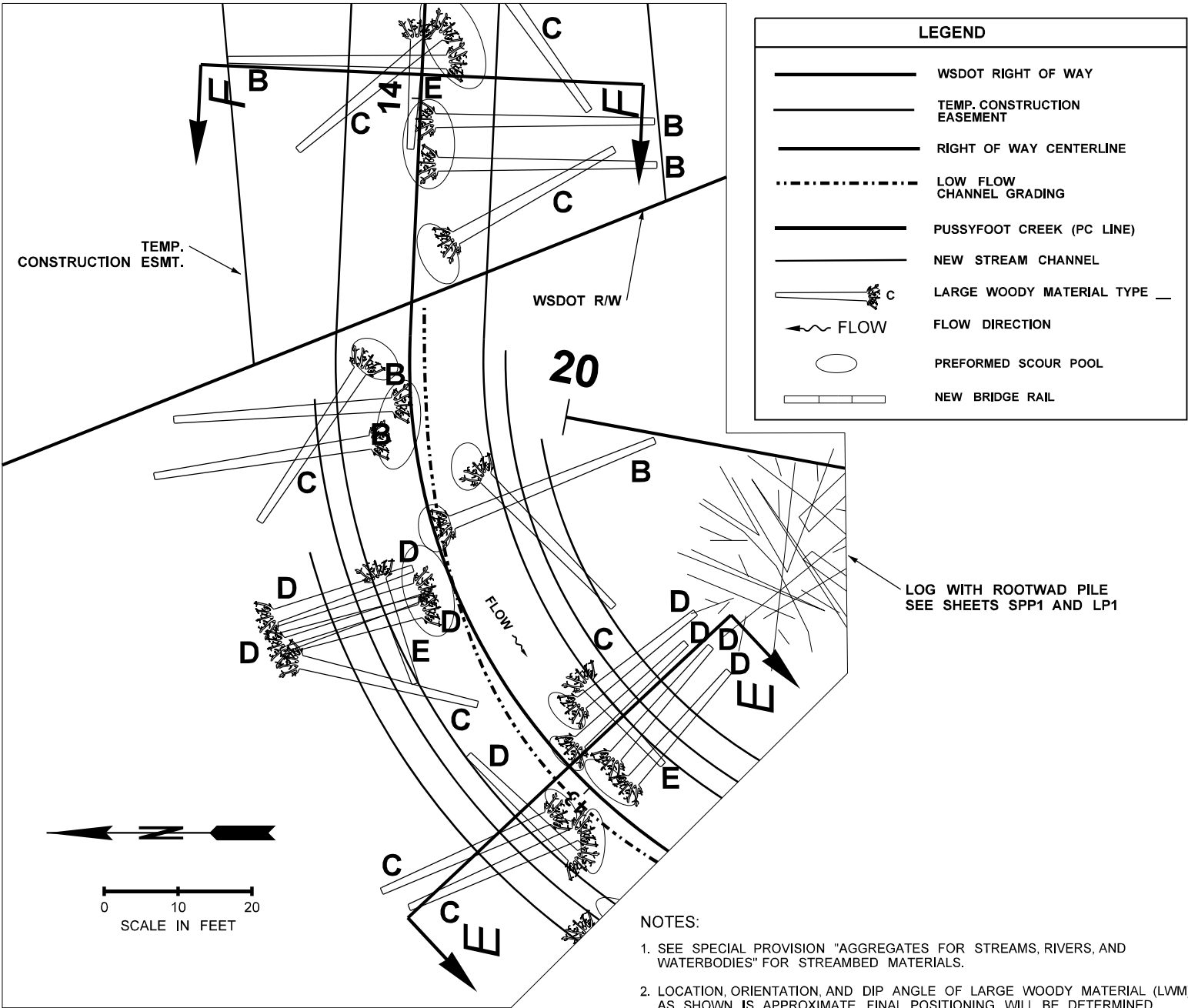


SR 164
PUSSYFOOT CREEK
FISH PASSAGE

STREAM DETAILS

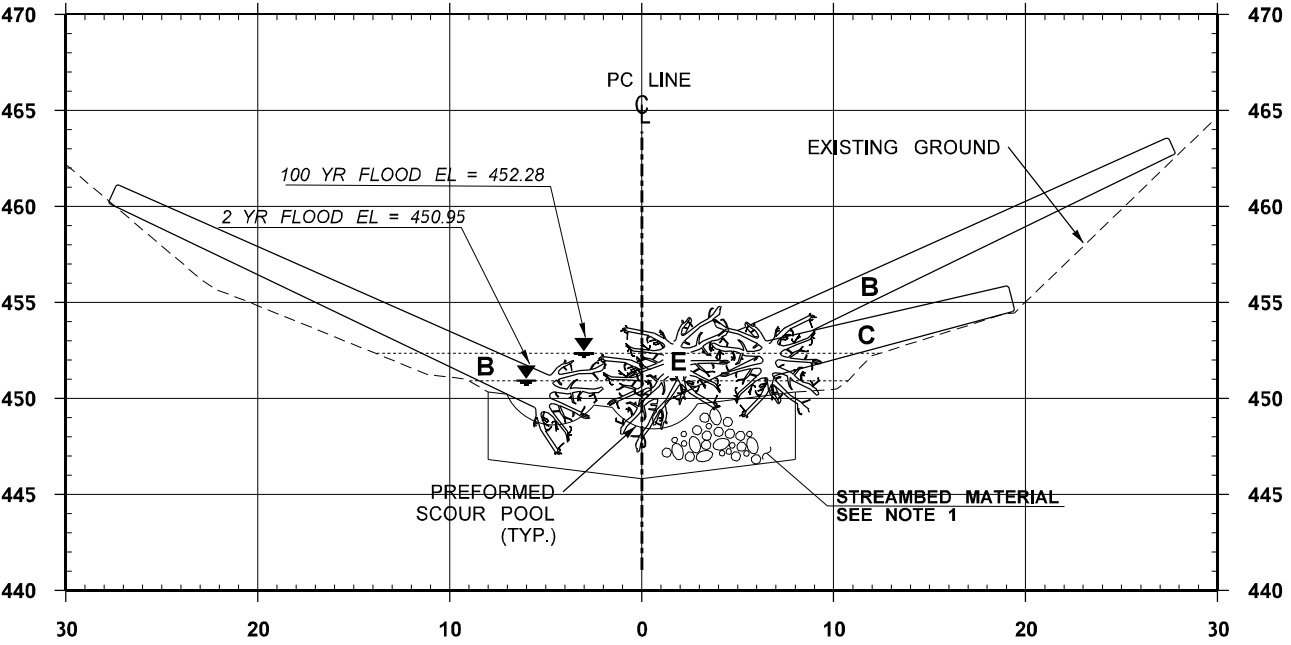
PLAN REF NO
SD3

SHEET
19
OF
100
SHEETS

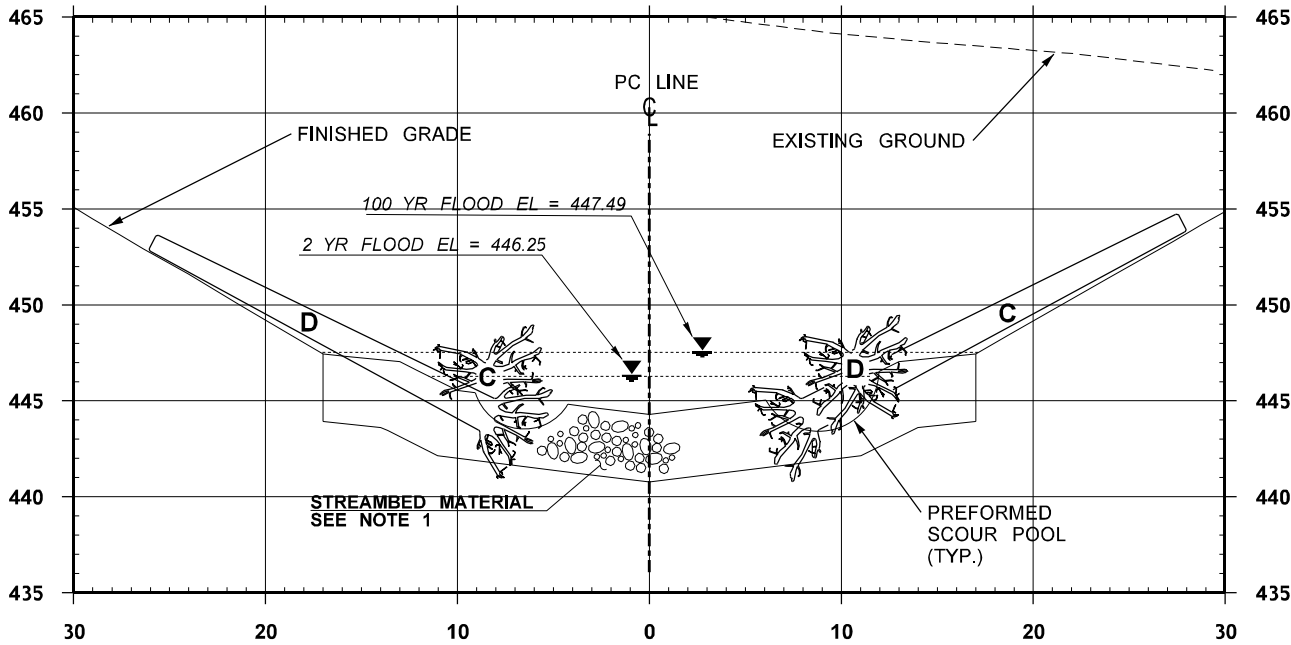


LARGE WOODY MATERIAL				
TYPE	DBH	LENGTH	COUNT	EMBEDMENT
A	26"	40'	2	BOTH SIDES
B	24"	30'	12	VARIES
C	24"	25'	25	VARIES
D	18"	20'	20	VARIES
E	18"	15'	15	VARIES

- NOTES:
- SEE SPECIAL PROVISION "AGGREGATES FOR STREAMS, RIVERS, AND WATERBODIES" FOR STREAMBED MATERIALS.
 - LOCATION, ORIENTATION, AND DIP ANGLE OF LARGE WOODY MATERIAL (LWM) AS SHOWN IS APPROXIMATE. FINAL POSITIONING WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - SELECTIVE LASHING OF LWM TO EXISTING TREES WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - LOCATION AND ORIENTATION OF PREFORMED SCOUR POOLS AS SHOWN IS APPROXIMATE. FINAL POSITIONING WILL BE DETERMINED ON SITE BY THE ENGINEER.
 - STREAM SECTION VIEWS ARE FACING DOWNSTREAM, OPPOSITE OF STREAM STATIONING.
 - STREAM SECTION VIEWS ARE REPRESENTATIVE AND PARTIAL. FLOOD STAGE ELEVATIONS VARY DEPENDING ON LOCATION.
 - STREAM SECTION VIEWS ARE OBLIQUE DRAWINGS.
 - FOR SOIL LIFTS SEE SHEETS SD5 & SD6.
 - SEE SHEET SD1 FOR DIMENSIONS AND SLOPES.



PC 14+05
SECTION F-F
(FACING DOWNSTREAM)



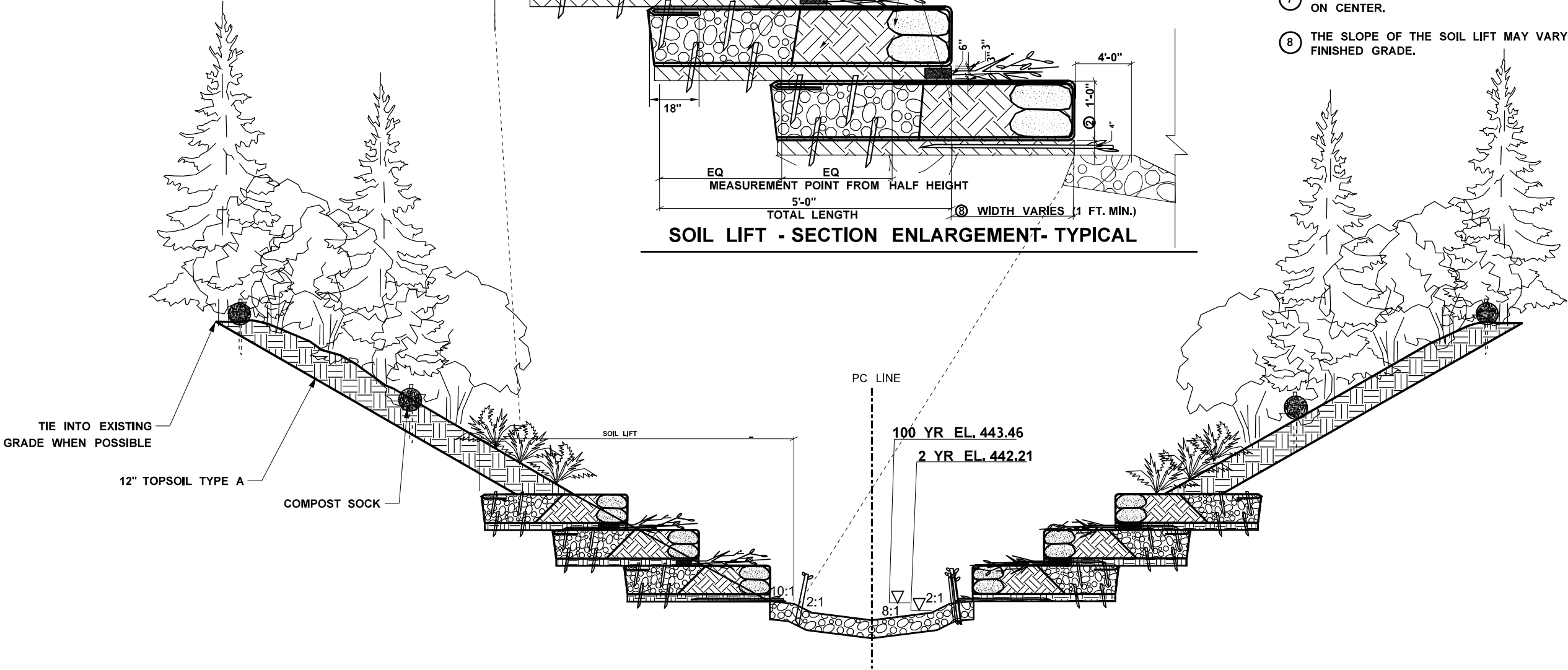
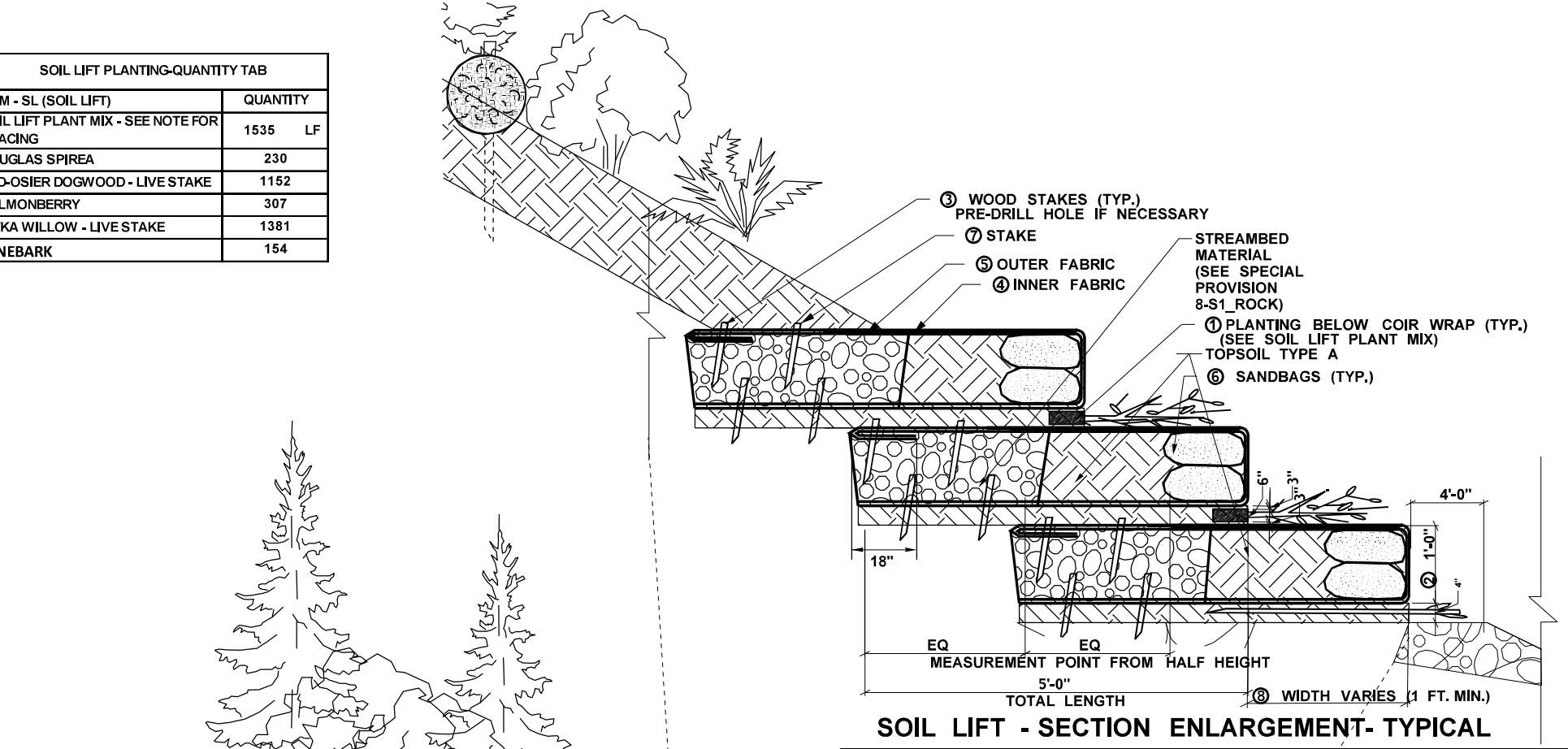
PC 13+05
SECTION E-E
(FACING DOWNSTREAM)

FILE NAME c:\users\irilln\pw_wsdot\d0122211\XL5186_PS_SD.dgn		REGION NO. 10		STATE WASH	FED.AID PROJ.NO.				SR 164 PUSSYFOOT CREEK FISH PASSAGE	PLAN REF NO SD4
TIME 9:44:42 AM	DATE 10/9/2020	DESIGNED BY M. RILLING	ENTERED BY M. RILLING	CHECKED BY J. HEILMAN	PROJ. ENGR. N. PEN					REGIONAL ADM. M. COTTEN
PLOTTED BY RillnM									STREAM DETAILS	
REVISION	DATE	BY								



SOIL LIFT PLANTING-QUANTITY TAB		
ITEM - SL (SOIL LIFT)	QUANTITY	
SOIL LIFT PLANT MIX - SEE NOTE FOR SPACING	1535	LF
DOUGLAS SPIREA	230	
RED-OSIER DOGWOOD - LIVE STAKE	1152	
SALMONBERRY	307	
SITKA WILLOW - LIVE STAKE	1381	
NINEBARK	154	

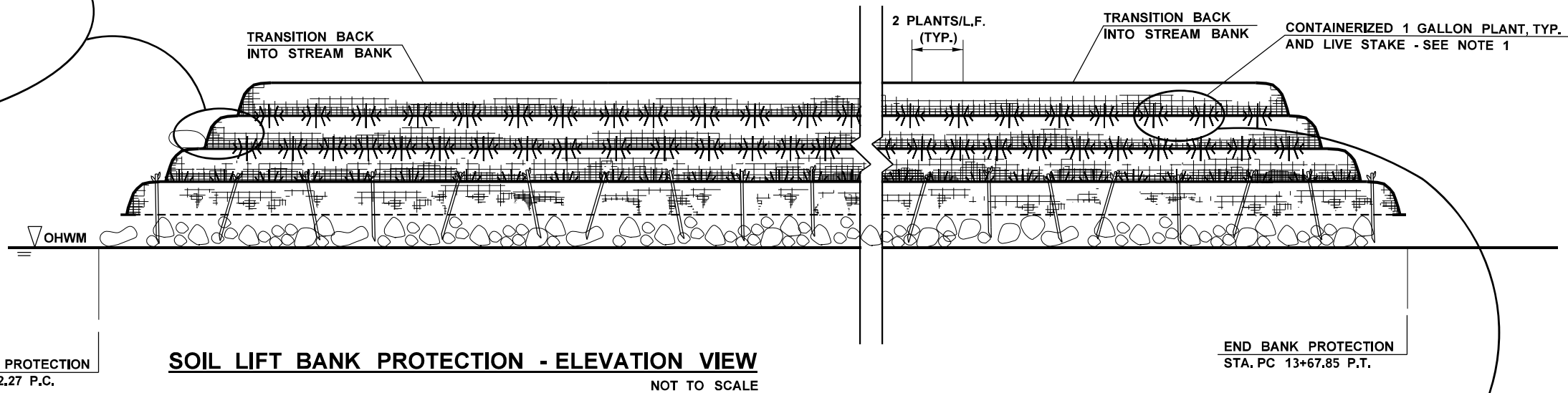
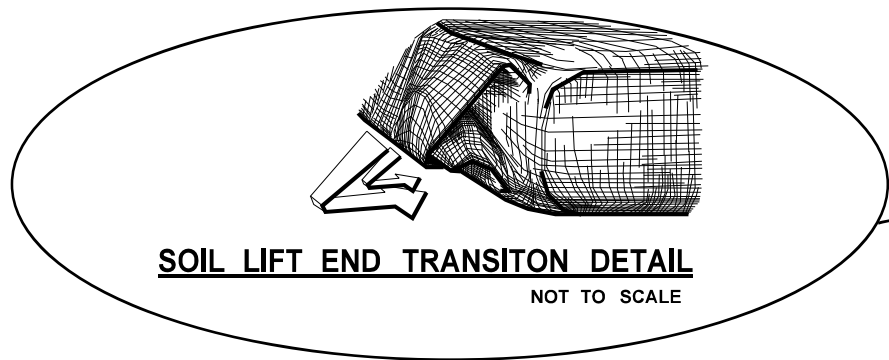
SOIL LIFT BANK PROTECTION ITEMS AND NOTES:

- SEE SPECIAL PROVISION " SOIL LIFT" AND THIS SHEET FOR SOIL LIFT PLANT MATERIAL. INSTALL 2 CONTAINER PLANTS PER LINEAR FOOT. BETWEEN LIFTS,INSTALL DOUGLAS SPIRAEA SALMONBERRY AND NINEBARK AT 2 PLANT PER FOOT. INSTALL SITKA WILLOW AND RED-OSIER DOGWOOD LIVE STAKE AT 3 CUTTINGS PER FOOT. THE PLANT MATERIAL MUST BE INSTALLED WHILE THE COIR LIFTS ARE BUILT.
- HAND COMPACT TOPSOIL TYPE A TO 1'FOOT DEPTH.
- DRIVE 2 X 4 WOOD STAKES INTO THE BACK END OF THE LIFT. BURY 2/3 OF THE WOOD STAKE WITHIN THE BOTTOM LIFT.
- EMBED INNER FABRIC A MINIMUM OF 3'FROM SLOPE FACE.
- EMBED OUTER FABRIC A MINIMUM OF 3'FROM SLOPE FACE.
- PLACE TWO SAND BAGS AT THE FRONT FACE OF THE LIFT FOR SOIL LIFT FORMATION.
- ABOVE LIFTS,INSTALL INNER FABRIC; SECURE WOOD STAKES 3' ON CENTER.
- THE SLOPE OF THE SOIL LIFT MAY VARY TO MEET THE EXISTING OR FINISHED GRADE.



SOIL LIFT BANK PROTECTION - TYPICAL SECTION

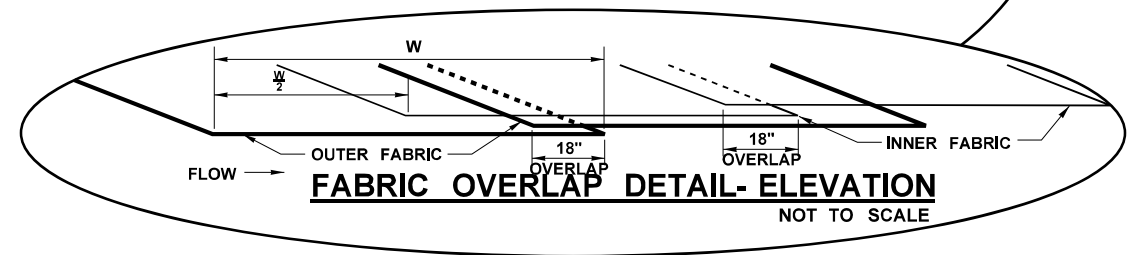
FILE NAME c:\users\hossein\pw_wsd\td0202485\PS_LS.dgn		REGION NO. STATE		FED.AID PROJ.NO.		 <div>Digitally signed by Lindsey Jungbluth Date: 2020.10.12 06:55:27 -07'00'</div>	 <div>Washington State Department of Transportation</div>	SR 164 PUSSYFOOT CREEK FISH PASSAGE	Plot 3
TIME 12:12:11 PM		10	WASH						PLAN REF NO SD5
DATE 10/9/2020									
PLOTTED BY hossein									
DESIGNED BY N.HOSSEINIDARPOSHTI									
ENTERED BY N.HOSSEINIDARPOSHTI						CONTRACT NO. LOCATION NO.			SHEET 21 OF 100 SHEETS
CHECKED BY L.JUNGBLUTH									
PROJ. ENGR. N.PEN									
REGIONAL ADM. M.COTTEN	REVISION	DATE	BY					STREAM DETAILS	



SOIL LIFT APPROX LOCATION	
ITEM - SL (SOIL LIFT)	APPROX STA
SOIL LIFT (2 LAYER)	PC 10+52 17 FT RT TO 12+00 17 FT RT
SOIL LIFT (3 LAYER)	PC 12+00 17 FT RT TO 12+40 17 FT RT
SOIL LIFT (2 LAYER)	PC 12+40 17 FT RT TO 13+67 17 FT RT
SOIL LIFT (3 LAYER)	PC 10+57 17 FT LT TO 12+12 17 FT LT
SOIL LIFT (2 LAYER)	PC 12+12 17 FT LT TO 12+64 17 FT LT
SOIL LIFT (3 LAYER)	PC 12+64 17 FT LT TO 13+67 17 FT LT

SOIL LIFT INSTALLATION NOTES:

10. SEE SPECIAL PROVISION SOIL LIFT AND PLAN SHEET SD5 FOR SOIL LIFT BANK PROTECTION CONSTRUCTION DETAILS AND PLANT MATERIAL.
11. SEE SHEETS SD5 AND SD6 FOR SOIL LIFT PLANS AND DETAILS.
12. PLANT MATERIAL FOR SOIL LIFTS SHALL BE INSTALLED AT THE TIME OF SOIL LIFT CONSTRUCTION.
13. PLANTS FOR SOIL LIFTS SHALL BE RANDOMLY MIXED ALONG EACH SOIL LIFT.
14. SEE SHEET SD2 FOR THE LEGEND.



FILE NAME c:\users\hossein\pw_wsd\td0202485\PS_LS.dgn																				Plot 28	
TIME 12:14:33 PM								REGION NO. STATE		FED.AID PROJ.NO.											
DATE 10/9/2020								10 WASH												SD6	
PLOTTED BY hossein								JOB NUMBER												SHEET 22 OF 100 SHEETS	
DESIGNED BY N.HOSSEINIDARPOSHTI								19A031													
ENTERED BY N.HOSSEINIDARPOSHTI																					
CHECKED BY L.JUNGBLUTH								CONTRACT NO.		LOCATION NO.											
PROJ. ENGR. N.PEN																					
REGIONAL ADM. M.COTTEN		REVISION		DATE		BY															

STATE OF WASHINGTON

Lindsey A. Jungbluth

Lindsey Jungbluth

LANDSCAPE ARCHITECT

NO 1483 EXP 11/01/2020

Digitally signed by Lindsey Jungbluth

Date: 2020.10.12 06:51:14 -07'00'

Washington State

Department of Transportation

SR 164

PUSSYFOOT CREEK

FISH PASSAGE

STREAM DETAILS

Plot 28

SD6

SHEET 22 OF 100 SHEETS

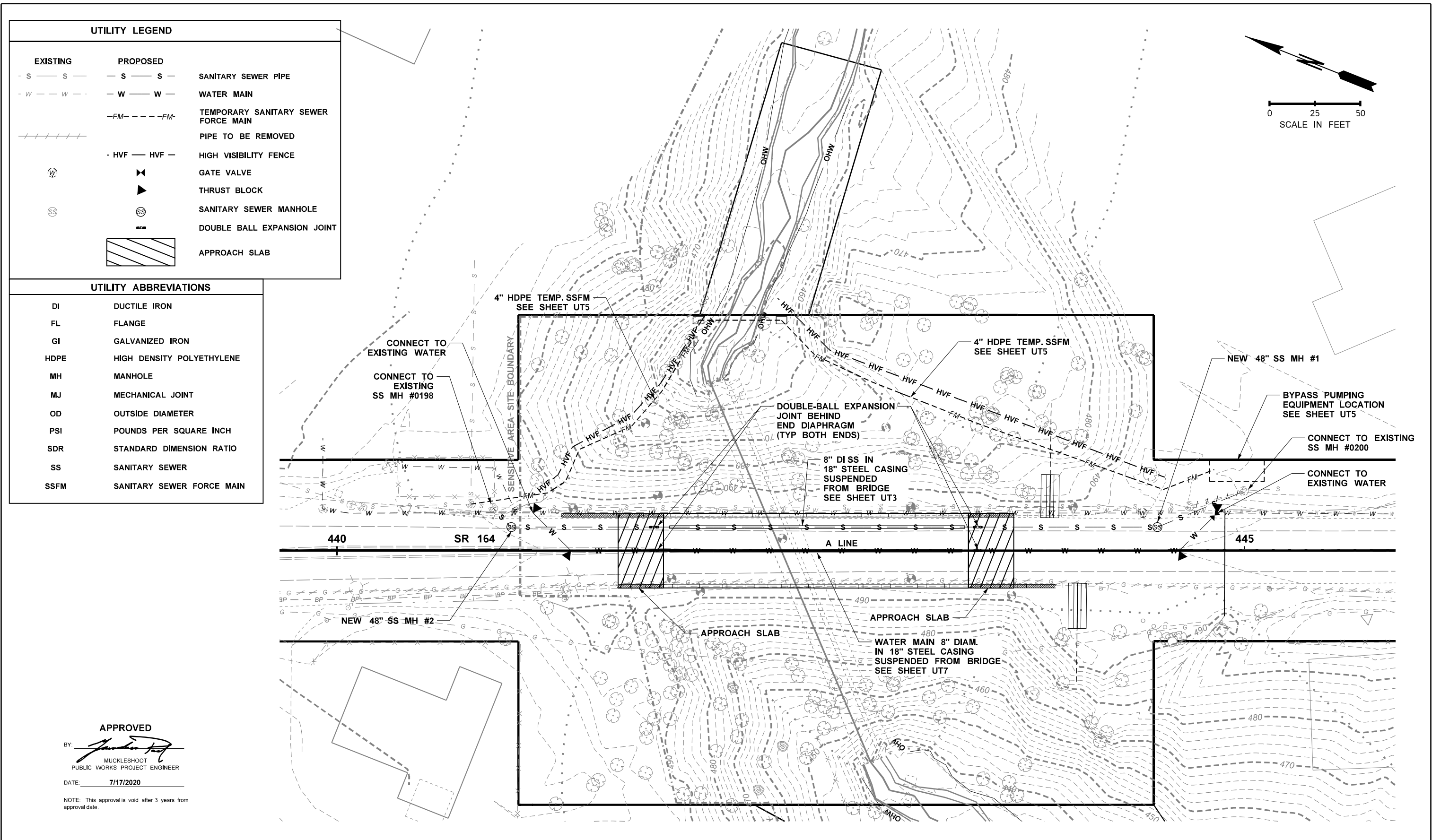


Digitally signed by Lindsey Jungbluth
Date: 2020.10.12 06:51:14 -07'00'



SR 164
PUSSYFOOT CREEK
FISH PASSAGE

STREAM DETAILS

[illegible]

PROVIDE SURFACE RESTORATION
PER APPLICABLE ROADWAY
SECTION. SEE SHEET RS1

APPROXIMATE
FINAL BATTER
FOR FACE OF
GEOSYNTHETIC
LAYER

DETECTABLE
MARKING TAPE

4"

6"

MAX WIDTH =
PIPE O.D. + 30"

GRAVEL BASE PER WSDOT 9-03.10
COMPACTED TO 95% DENSITY UNLESS
NOTED OTHERWISE IN PLANS

12 GA. SOLID INSULATED
LOCATE WIRE
ON NON-CONDUCTIVE PIPES

COMPACTED CSTC BEDDING
PER WSDOT 9-03.9(3) UNLESS
NOTED OTHERWISE IN PLANS

Diagram illustrating the cross-section of a retaining wall structure, showing the relationship between the wall face, geosynthetic layers, and the pipe bedding.

Labels and Dimensions:

- APPROXIMATE FINAL BATTER FOR FACE OF GEOSYNTHETIC LAYERS**: Indicated by a dashed line and a batter angle of 48°.
- SV**: Vertical distance from the top of the wall face to the top of the geosynthetic layers.
- 8" D.I. WATER OR SANITARY SEWER PIPE, LINE AND GRADE PER PLAN. PIPE SHALL BE LOCATED IN A SINGLE SOIL LIFT BETWEEN GEOSYNTHETIC LAYERS FOR FULL LENGTH OF WALL.**: Dimension indicating the pipe size and placement.
- GEOSYNTHETIC LAYERS (TYP.)**: Indicated by arrows pointing to the horizontal layers.
- 1'-0" MIN.**: Minimum thickness of the geosynthetic layer.
- COMPACTED CSTC BEDDING PER WSDOT 9-03.9(3)**: Indicated by an arrow pointing to the bedding material.
- PIPE O.D. + 24"**: Dimension indicating the bedding thickness around the pipe.
- GRAVEL BORROW BACKFILL**: Indicated by an arrow pointing to the backfill material.
- 4'-0" MIN. (TYP.)**: Minimum length of the geosynthetic layer.
- 8" D.I. (TYP.)**: Dimension indicating the pipe size.
- 2'-0" (TYP.)**: Dimension indicating the bedding thickness.

SANITARY SEWER AND WATER PIPE NOTES:

1. WATER PIPE SHALL BE CLASS 52 RESTRAINED JOINT DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF SPECIAL PROVISION 7-09.2.
2. SANITARY SEWER PIPE SHALL BE CLASS 52 RESTRAINED JOINT DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF SPECIAL PROVISION 7-17.2.

Labels and Dimensions:

- BRIDGE DECK
- 18" STEEL CASING
- 8" D.I. PIPE
- PIPE INSULATION (OMIT AT BELLS AND CASING SPACERS)
- SEE BRIDGE PLANS FOR HANGER DETAILS AND SPACING
- PROVIDE CASING SPACERS BEHIND EACH PIPE BELL AND AT MID POINT OF EACH LENGTH OF PIPE
- CASING END SEAL INSTALLED LENGTH
- 1'-0"
- 3/4" THREADED ROD WITH DOUBLE NUTS BOTH ENDS
- ANCHOR CASING TO END DIAPHRAGM AT HIGH END ONLY WITH 1/2"x3" PLATE STRAPS (4 PLACES)
- 3/4"Ø REIN. ANCHOR, EMBED 6" MIN.
- L = NOMINAL LENGTH (TYP.)
- 0.5L±
- 0.5L±

1. WATER PIPE SHALL BE CLASS 52 RESTRAINED JOINT DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF SPECIAL PROVISION 7-09.2.
2. SANITARY SEWER PIPE SHALL BE CLASS 52 RESTRAINED JOINT DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF SPECIAL PROVISION 7-17.2.
3. SLOPE SANITARY SEWER PIPE CASING AS SHOWN ON SHEET UT3.

(4) MC4x13.8 AT HIGH END OF CASING

1/8" Ø HOLE

1/4"

18" DIA. STANDARD STEEL CASING PIPE, 0.375" WALL THICKNESS

2" THICKNESS RIGID FOAM INSULATION WITH STAINLESS STEEL JACKET. OMIT AT CASING SPACERS AND PIPE BELLS

8" DIA. D.I. CLASS 52 RESTRAINED JOINT PIPE

1.15" MIN. CLEARANCE

4"

2"

SPACER, EFFECTIVE HEIGHT

PIPE BELL DIAMETER

CL CASING

CL D.I. PIPE

APPROVED

BY: *[Signature]*

APPROVED

BY:  _____

MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER

DATE: **7/17/2020**

NOTE: This approval is void after 3 years from approval date.

[illegible]

NOTES:

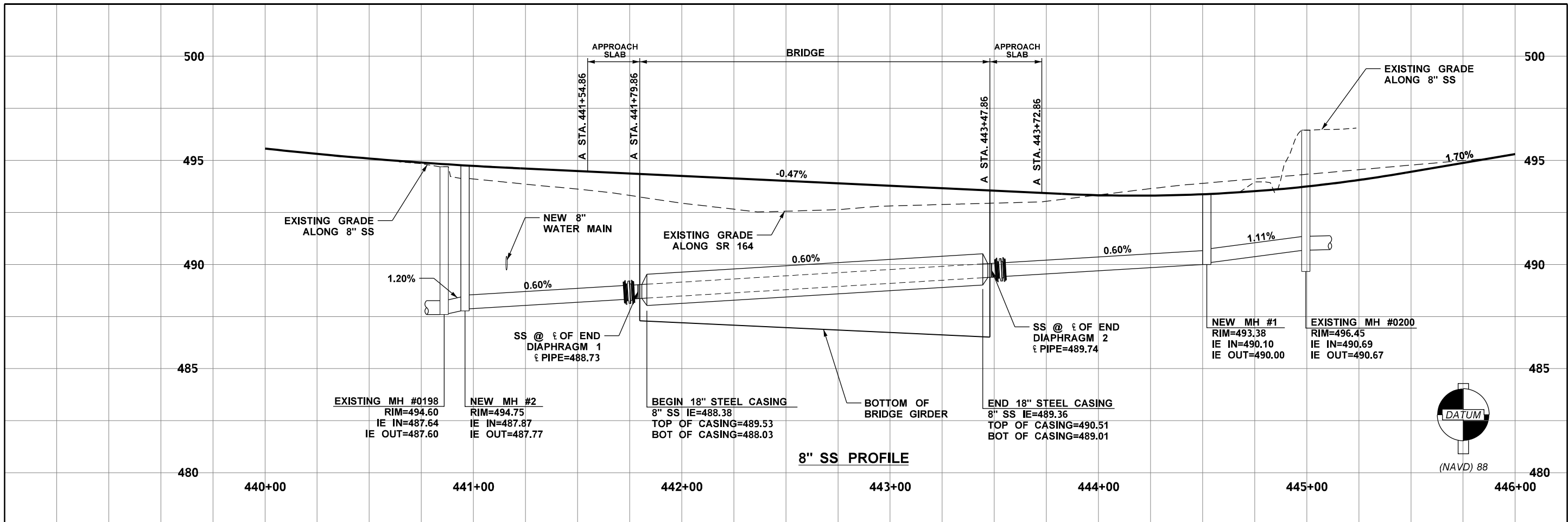
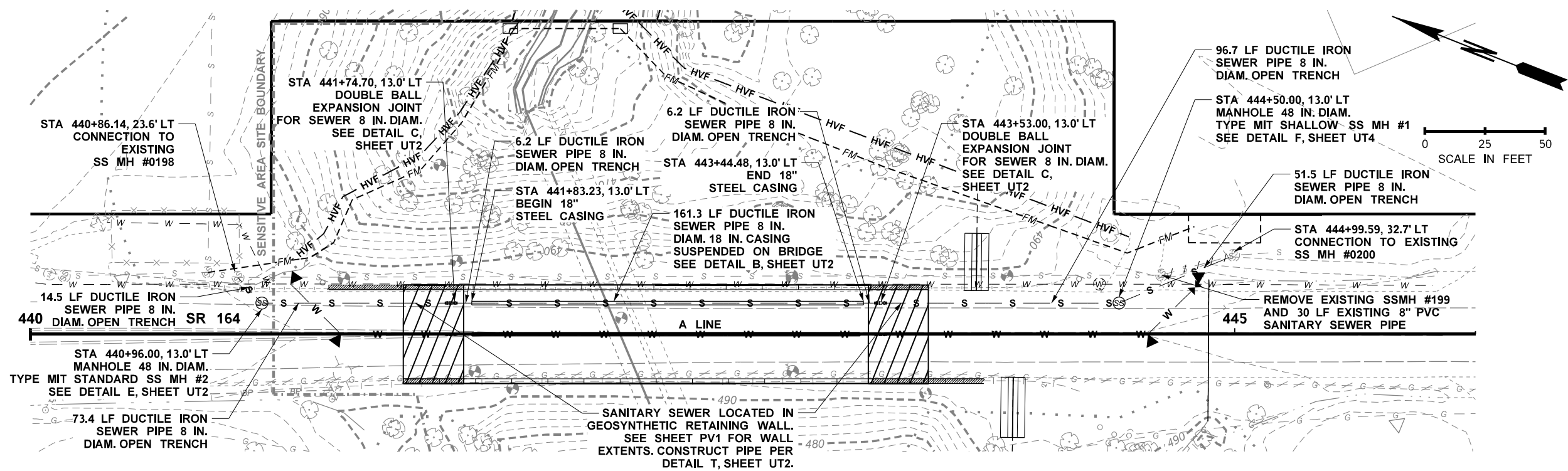
1. THE LOCATIONS OF EXISTING UTILITIES, STRUCTURES, EQUIPMENT, AND OTHER ITEMS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING ITEMS PRIOR TO CONSTRUCTION.
2. ALL SEWER FORCEMAIN JOINTS SHALL BE MECHANICALLY RESTRAINED.
3. RETAIN AND PROTECT ALL EXISTING ITEMS NOT DESIGNATED TO BE REMOVED OR MODIFIED.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ALL PUMP AROUND (BYPASS) FACILITIES AND TO COORDINATE WITH THE TRIBE DURING THE COURSE OF THIS PROJECT.

APPROVED


BY: 
MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER

DATE: 7/17/2020


NOTE: This approval is void after 3 years from approval date.



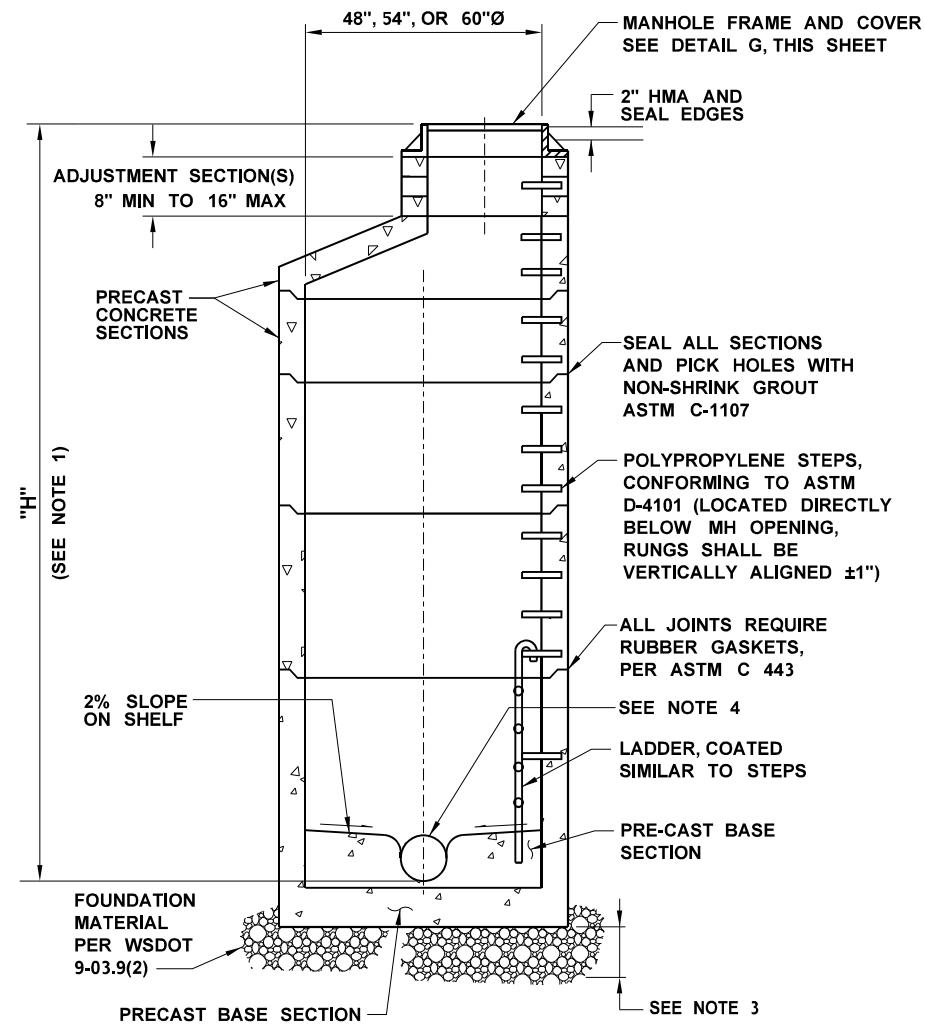
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DATE 7/20/2020								10 WASH												UT3									
PLOTTED BY tylerjac								JOB NUMBER 19A031												SHEET 25 OF 100 SHEETS									
DESIGNED BY R. RAYMOND								CONTRACT NO.		LOCATION NO.										SR 164 PUSSYFOOT CREEK FISH PASSAGE									
ENTERED BY C.D. CLARK																													
CHECKED BY J. WRIGHT																				SANITARY SEWER PLAN/PROFILE									
PROJ. ENGR. N. PEN																													
REGIONAL ADM. M. COTTEN																													
REVISION										DATE										BY									



7/16/2020
DATE
P.E. STAMP BOX

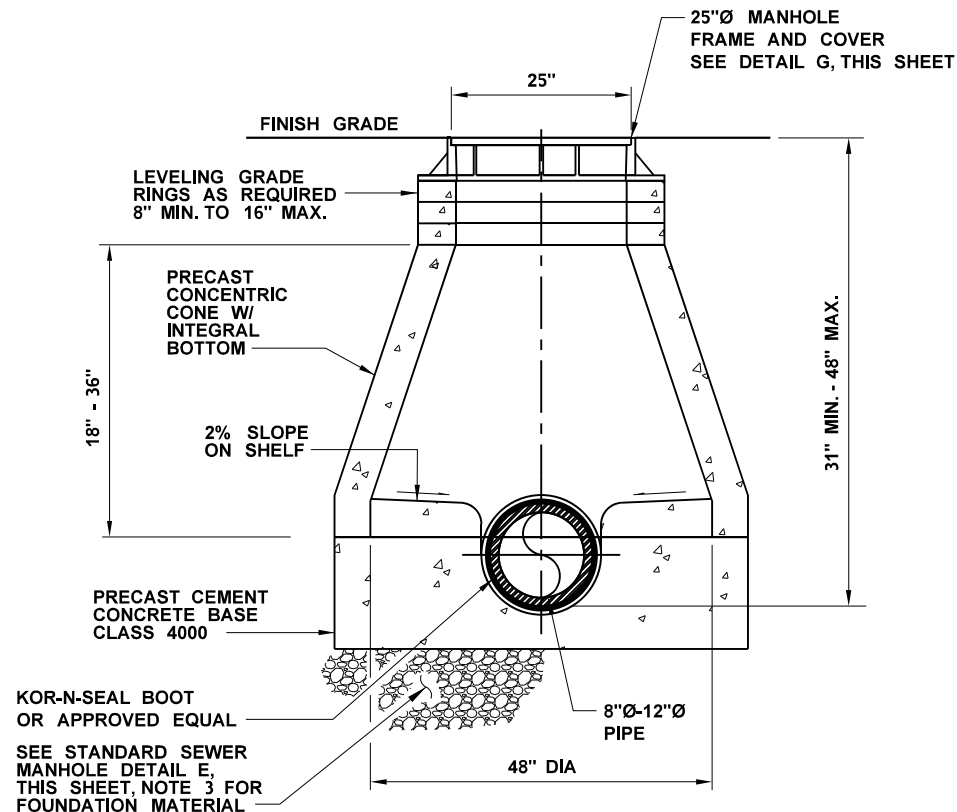


Washington State
Department of Transportation
Parametrix

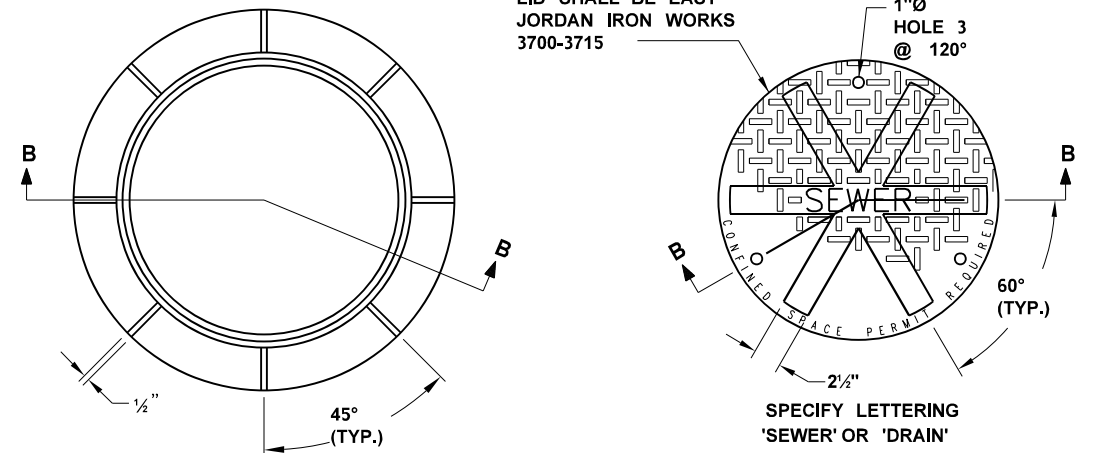


DETAIL E
SEWER MANHOLE,
MIT STANDARD TYPE
NOT TO SCALE

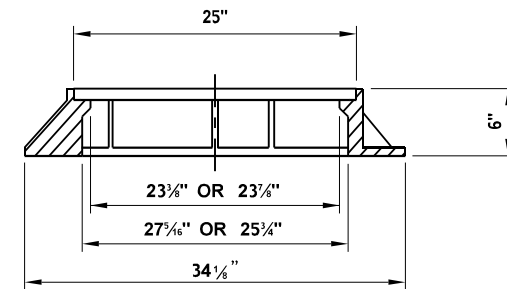
- NOTES:**
1. WHEN "H" IS LESS THAN 8' USE TYPE III MANHOLE.
 2. WHEN 'H' IS GREATER THAN 20', MANHOLE SHALL BE 60" DIAMETER.
 3. FOUNDATION MATERIAL SHALL BE 12" MIN. OR AS REQUIRED TO ACHIEVE A FIRM AND UNYIELDING SUB-BASE.
 4. USE KOR-N-SEAL BOOT OR OTHER APPROVED WATER TIGHT FLEXIBLE BOOT FOR MANHOLE WALL PENETRATIONS.



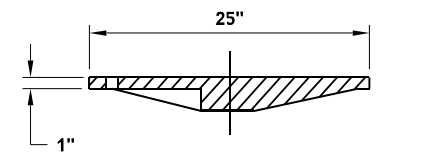
DETAIL F
MANHOLE DETAIL,
MIT SHALLOW TYPE
NOT TO SCALE



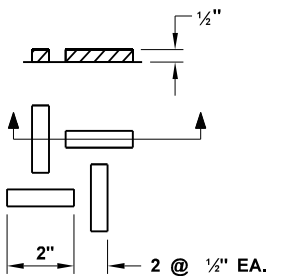
FRAME PLAN



SECTION A-A



SECTION B-B



NON-SKID PATTERN

- NOTES:**
1. COVERS SHALL HAVE "SEWER" CAST IN 2" RAISED LETTERS. THE WORDS "CONFINED SPACE PERMIT REQUIRED" SHALL BE CAST IN 1" LETTERS AS SHOWN.
 2. FRAME AND COVER OF DUCTILE IRON WITH MINIMUM WEIGHTS AS FOLLOWS: FRAME= 210 LBS, COVER=150 LBS. CAST IRON FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS SERIES 3700-3715.
 3. WATER RESISTANT LIDS SHALL HAVE A 1" PICK HOLE. WATER TIGHT LIDS SHALL BE BOLT DOWN LID. FRAME SHALL HAVE NEOPRENE GASKET AND SHALL BE DRILLED AND TAPPED FOR BOTH WATER TIGHT & WATER RESISTANT MANHOLES.

DETAIL G
SEWER MANHOLE FRAME AND COVER
NOT TO SCALE

APPROVED

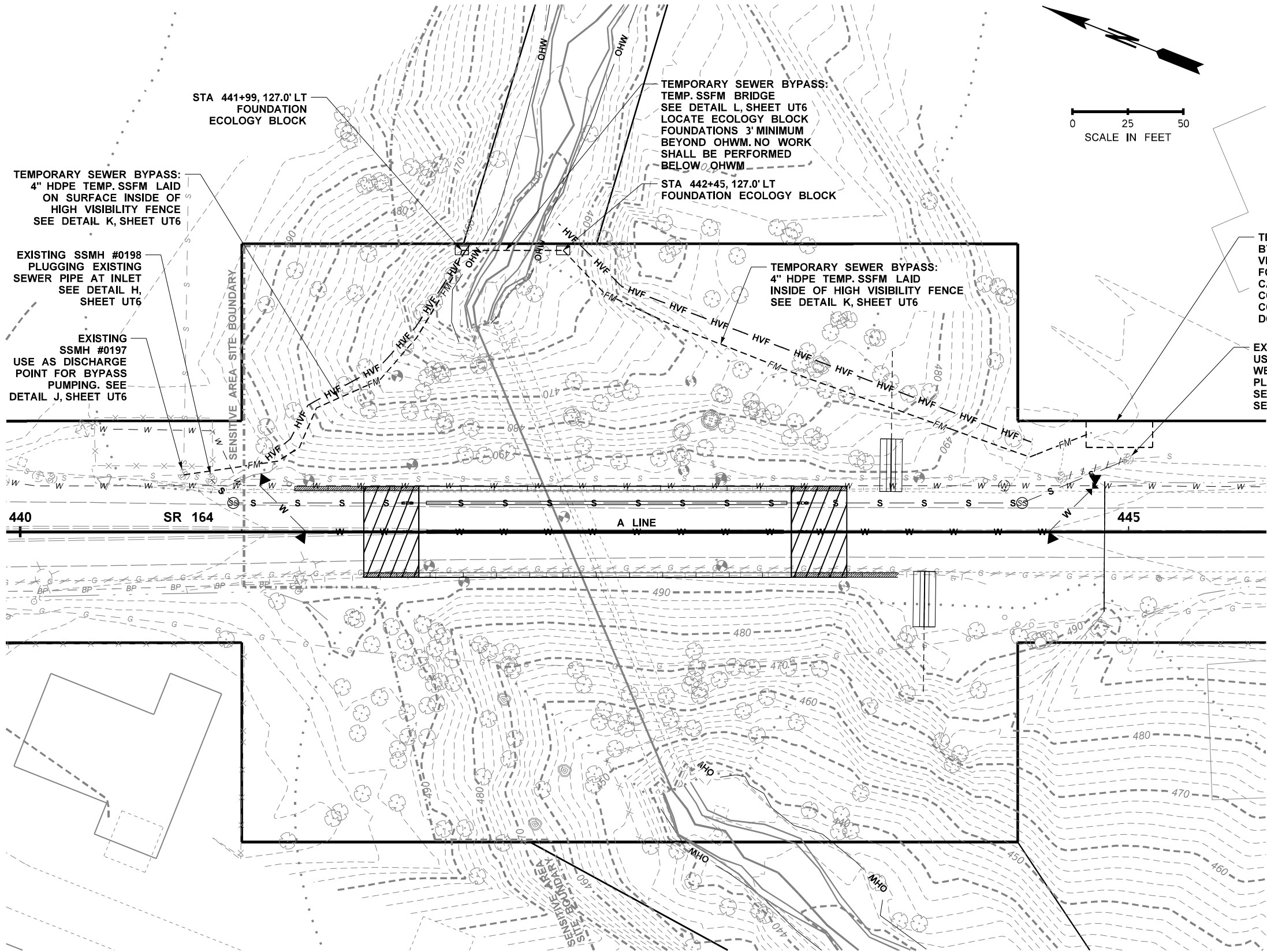
BY: *James T. Telford*
MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER

DATE: 7/17/2020

NOTE: This approval is void after 3 years from approval date.

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TIME 9:51:41 AM						REGION NO. STATE		FED.AID PROJ.NO.										PLAN REF NO	
DATE 7/20/2020						10 WASH												UT4	
PLOTTED BY tylerjac						JOB NUMBER												SHEET	
DESIGNED BY R. RAYMOND						19A031												26	
ENTERED BY C.D. CLARK						CONTRACT NO.		LOCATION NO.										OF	
CHECKED BY J. WRIGHT																		100	
PROJ. ENGR. N. PEN																		SHEETS	
REGIONAL ADM. M. COTTEN		REVISION		DATE		BY													

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GENERAL NOTE:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, LABOR, TOOLS, AND MATERIAL REQUIRED FOR TEMPORARY SEWAGE BYPASS PUMPING UNTIL THE NEW SANITARY SEWER HAS BEEN COMPLETED, TESTED, AND ACCEPTED. CONTRACTOR TO SUBMIT BYPASS PUMPING PLAN PRIOR TO CONSTRUCTION.

TEMPORARY SEWER BYPASS: BYPASS PUMPING EQUIPMENT LOCATION. CLEAR EXISTING VEGETATION AND PROVIDE 4" DEPTH COMPACTED CSBC. FOR ALL FUELED EQUIPMENT, PROVIDE SPILL CONTAINMENT CAPABLE OF CONTAINING 110 PERCENT OF THE VOLUME CONTAINED IN THE LARGEST TANK WITHIN THE CONTAINMENT STRUCTURE. DOUBLE-WALLED TANKS DO NOT REQUIRE ADDITIONAL CONTAINMENT.

EXISTING SS MH #0200 USE AS TEMPORARY WET WELL FOR BYPASS PUMPING PLUGGING EXISTING SEWER PIPE AT OUTLET SEE DETAIL H, SHEET UT6

APPROVED
BY: 
MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER
DATE: 7/17/2020

NOTE: This approval is void after 3 years from approval date.

FILE NAME	C:\Users\tylerjacipw_wsdot\1022211\XL5186_PS_UT.dgn	REGION NO.	STATE	FED.AID PROJ.NO.
TIME	9:51:58 AM	10	WASH	
DATE	7/20/2020	JOB NUMBER	19A031	
PLOTTED BY	tylerjac	CONTRACT NO.		LOCATION NO.
DESIGNED BY	R. RAYMOND			
ENTERED BY	C.D. CLARK			
CHECKED BY	J. WRIGHT			
PROJ. ENGR.	N. PEN			
REGIONAL ADM.	M. COTTEN	REVISION	DATE	BY



7/16/2020
DATE

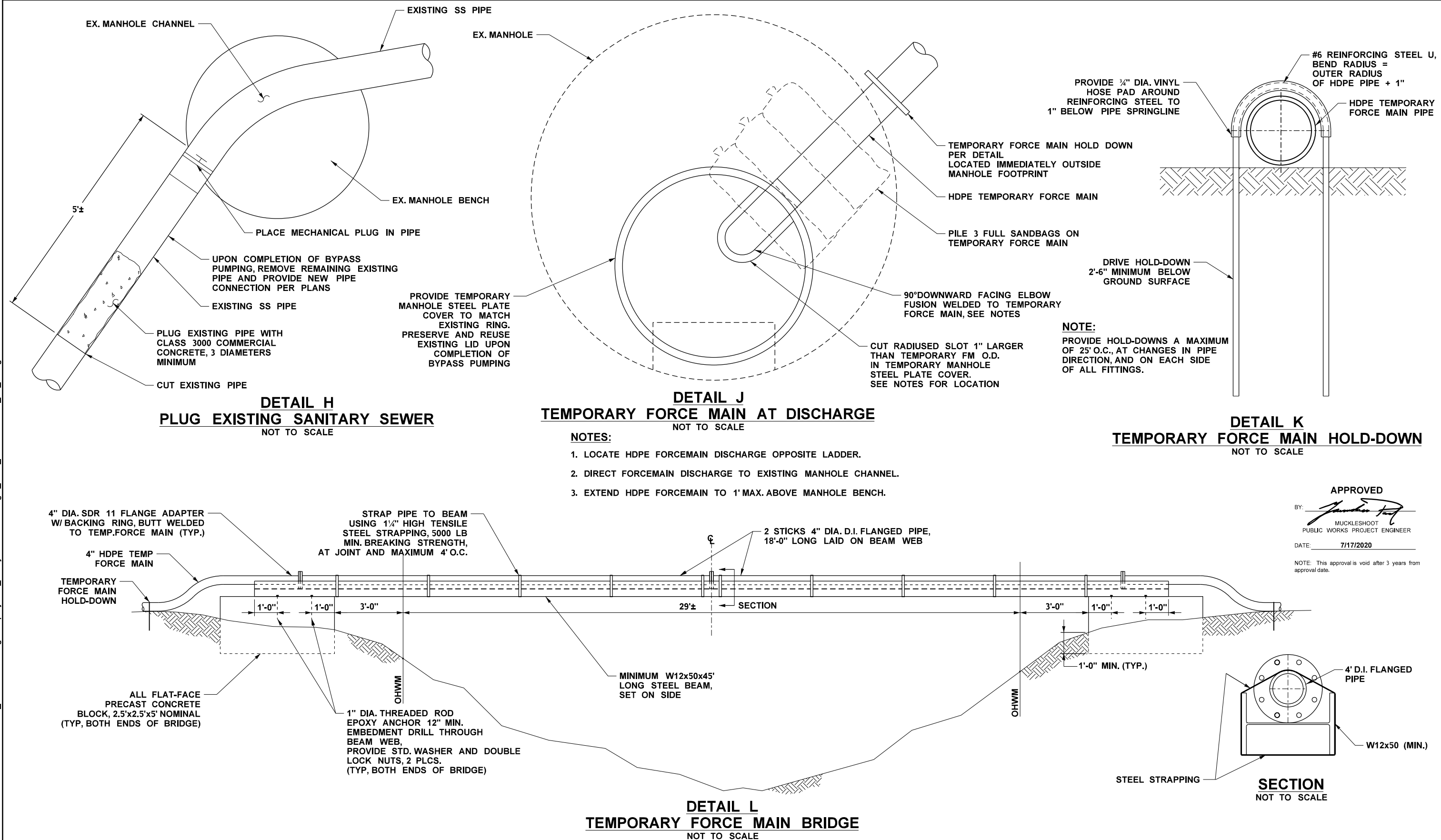
P.E. STAMP BOX



SR 164
PUSSYFOOT CREEK
FISH PASSAGE
SANITARY SEWER BYPASS PLAN

Plot 5
PLAN REF NO
UT5
SHEET
27
OF
100
SHEETS

p:\HQ\Q\YMAPPPW03P.WSDOT\Documents\HQ\Fish Passage\NWprojr* 24_PussyfootCreekDesign\CAD\ Sheets\XL5186_PS_UT.dgn



APPROVED
BY:
MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER
DATE: 7/17/2020
NOTE: This approval is valid after 3 years from approval date.

FILE NAME C:\Users\tylerjac\pw_wsdot\id0122211\XL5186_PS_UT.dgn																			Plot 5	
TIME	9:52:14 AM				REGION NO.	STATE	FED.AID PROJ.NO.				 Washington State Department of Transportation Parametrix		SR 164 PUSSYFOOT CREEK FISH PASSAGE		SANITARY SEWER BYPASS DETAILS		PLAN REF NO			
DATE	7/20/2020				10	WASH	UT6													
PLOTTED BY	tylerjac				JOB NUMBER	19A031														
DESIGNED BY	R. RAYMOND				CONTRACT NO.		LOCATION NO.										SHEET			
ENTERED BY	C.D. CLARK																28			
CHECKED BY	J. WRIGHT																OF			
PROJ. ENGR.	N. PEN																100			
REGIONAL ADM.	M. COTTEN																SHEETS			
		REVISION		DATE	BY															

NOTES:

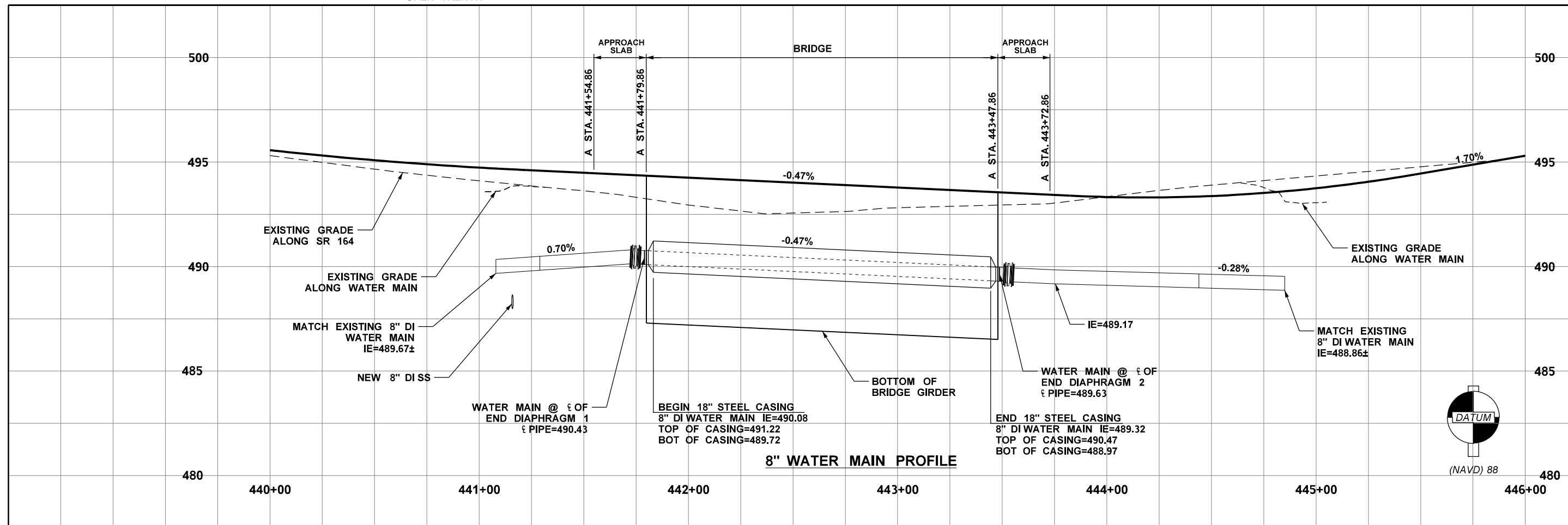
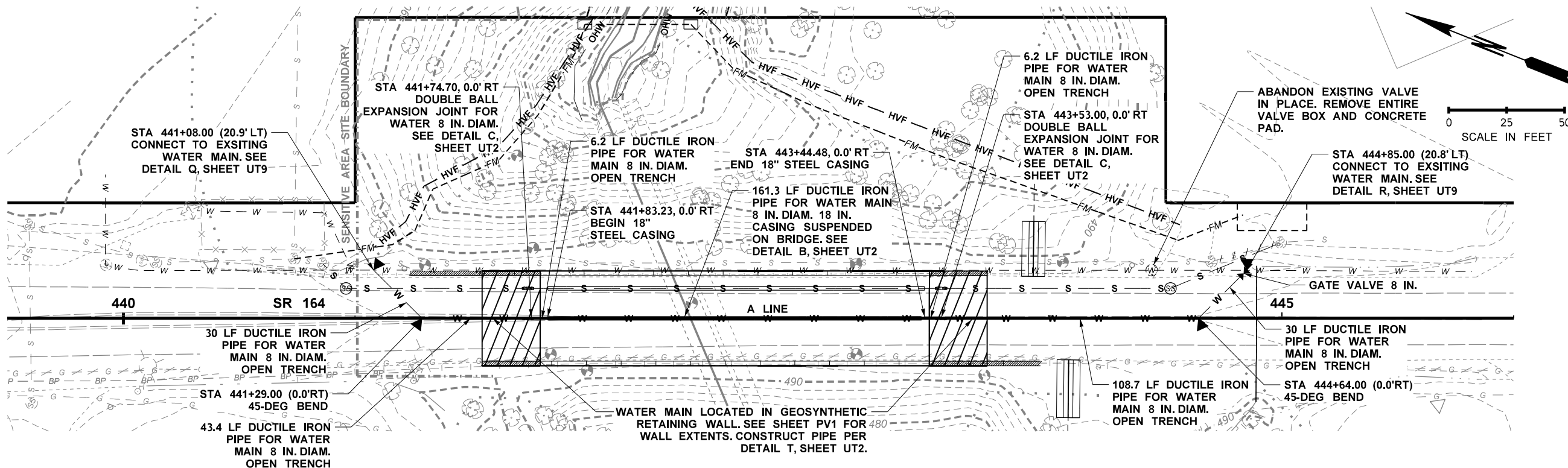
1. THE LOCATIONS OF EXISTING UTILITIES, STRUCTURES, EQUIPMENT, AND OTHER ITEMS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING ITEMS PRIOR TO CONSTRUCTION.
2. ALL WATER MAIN JOINTS SHALL BE MECHANICALLY RESTRAINED.
3. RETAIN AND PROTECT ALL EXISTING ITEMS NOT DESIGNATED TO BE REMOVED OR MODIFIED.

APPROVED

BY: 
MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER

DATE: 7/17/2020

NOTE: This approval is void after 3 years from approval date.



FILE NAME C:\Users\tylerjac\pw_wsdot\122211\XL5186_PS_UT.dgn

TIME 9:52:33 AM

DATE 7/20/2020

PLOTTED BY tylerjac

DESIGNED BY R. RAYMOND

ENTERED BY C.D. CLARK

CHECKED BY J. WRIGHT

PROJ. ENGR. N. PEN

REGIONAL ADM. M. COTTEN

REVISION

DATE

BY

REGION NO. 10 STATE WASH

JOB NUMBER 19A031

CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.



P.E. STAMP BOX

7/16/2020
DATE

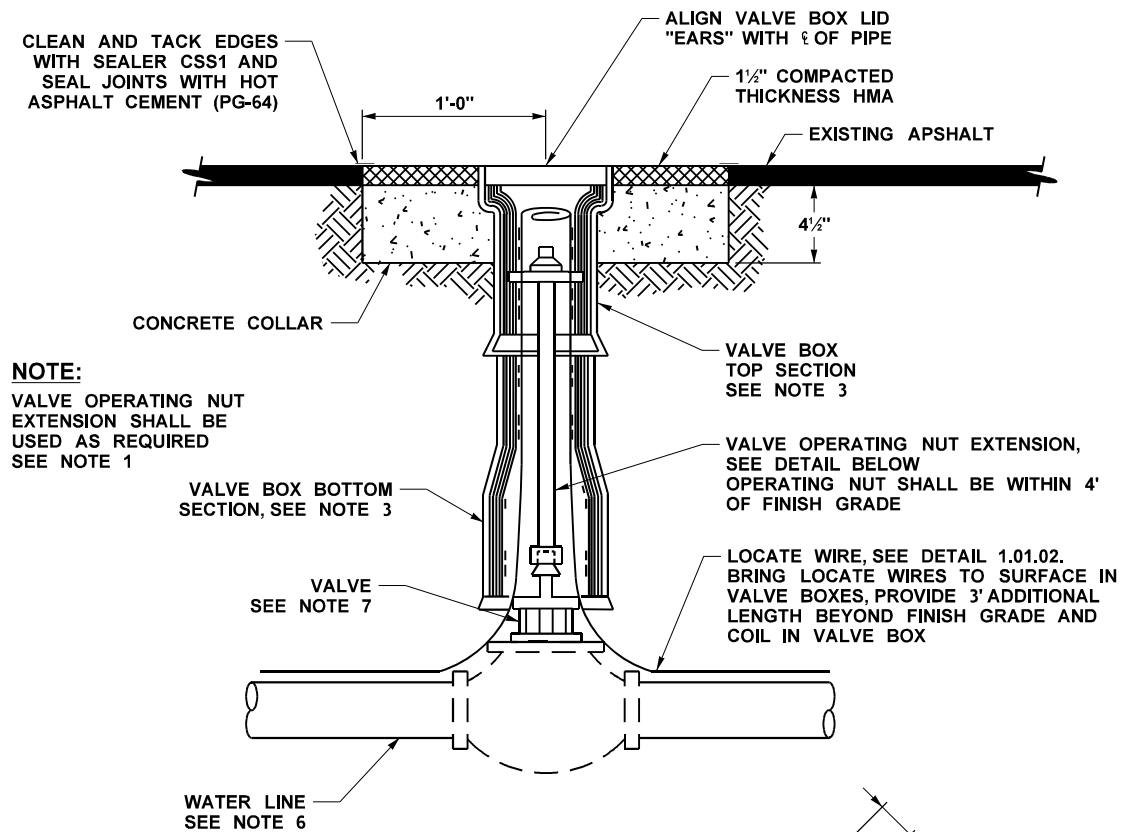
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
WATER MAIN PLAN/PROFILE

Plot 7

PLAN REF. NO.

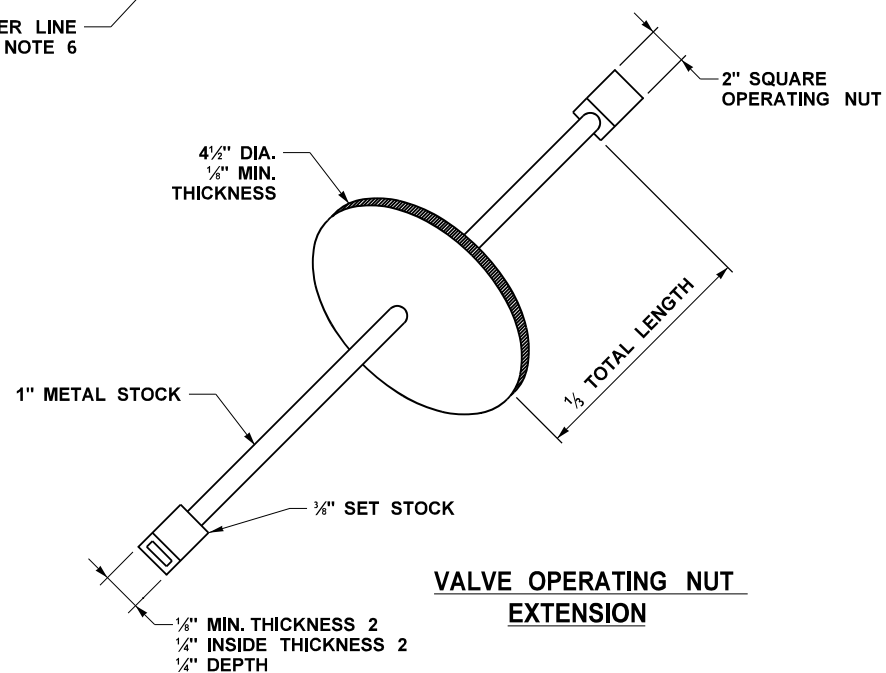
UT7

SHEET 29
OF 100
SHEETS



NOTE:

VALVE OPERATING NUT EXTENSION SHALL BE USED AS REQUIRED SEE NOTE 1



DETAIL M
WATER MAINS AND VALVES
NOT TO SCALE

NOTES:

1. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN 4 FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF 1 FOOT LONG, ONLY ONE EXTENSION SHALL BE USED PER VALVE.
2. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF WELDED STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
3. VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), THE WORD "WATER" SHALL BE CAST IN RELIEF IN THE TOP.
4. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.

APPROVED

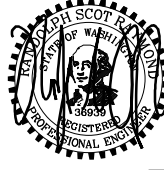

BY: 

MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER

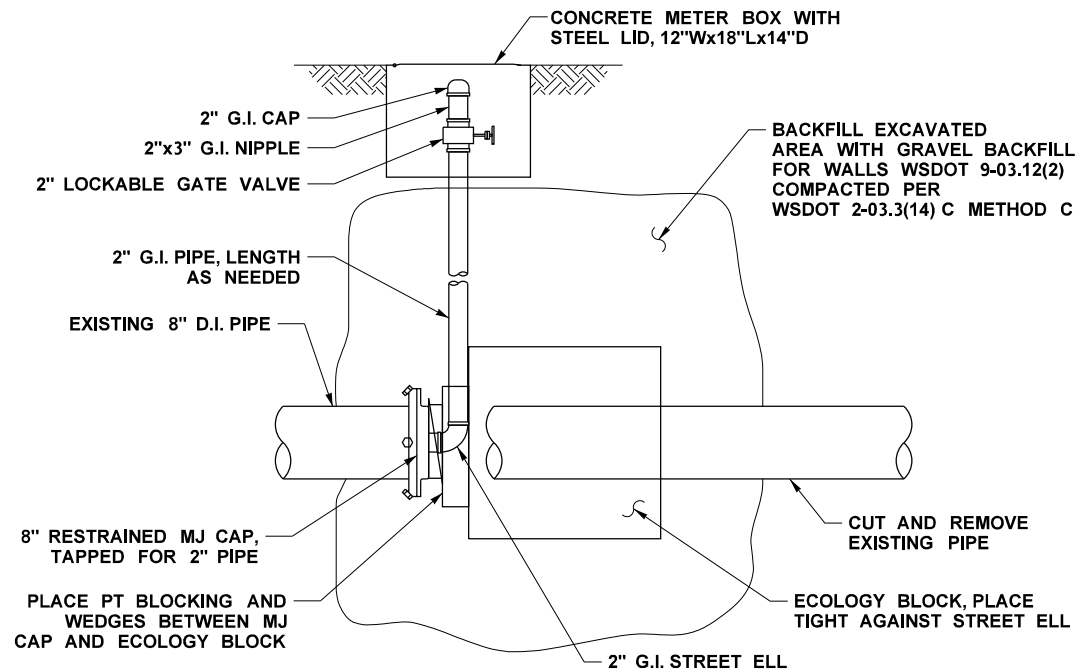
DATE: 7/17/2020

NOTE: This approval is void after 3 years from approval date.

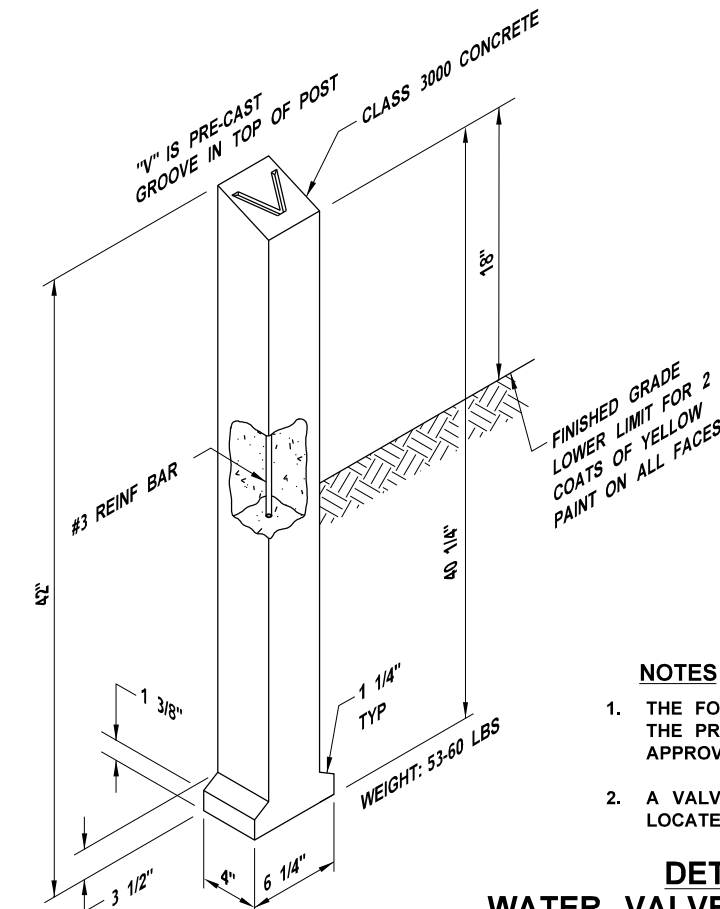
p:\HQ\Q\YMAPPPW03P.WSDOT\Documents\HQ\Fish Passage\NWproj\24_PussyfootCreekDesign\CAD\Sheets\XL5186_PS_UT.dgn

FILE NAME	C:\Users\tylerjacipw_wsdot\0122211\XL5186_PS_UT.dgn	REGION NO.	STATE	FED.AID PROJ.NO.	 7/16/2020 DATE	 Parametrix	SR 164 PUSSYFOOT CREEK FISH PASSAGE	Plot 7
TIME	9:52:57 AM	10	WASH					PLAN REF NO UT8
DATE	7/20/2020	JOB NUMBER	19A031	LOCATION NO.			WATER MAIN DETAILS	SHEET 30 OF 100 SHEETS
PLOTTED BY	tylerjac	CONTRACT NO.						
DESIGNED BY	R. RAYMOND							
ENTERED BY	C.D. CLARK							
CHECKED BY	J. WRIGHT							
PROJ. ENGR.	N. PEN							
REGIONAL ADM.	M. COTTEN	REVISION	DATE	BY				

p:\HQ\Q\YMAPPPW03P.WSDOT\Documents\HQ\Fish Passage\NWproj\24_PussyfootCreekDesign\CAD\Sheets\XL5186_PS_UT.dgn



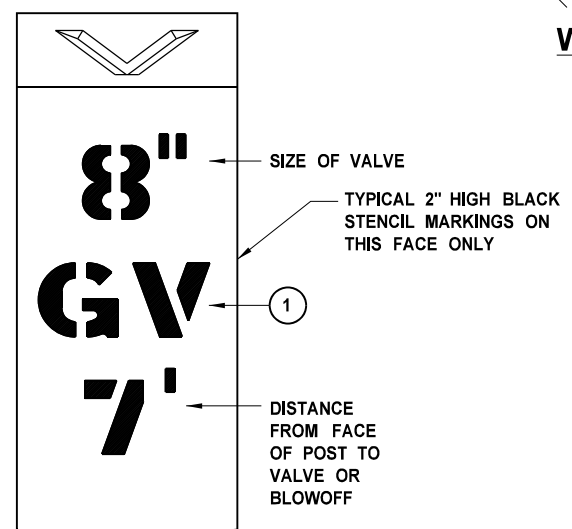
DETAIL N
TEMPORARY WATER MAIN CAPPING / BLOWOFF
NOT TO SCALE



DETAIL P
WATER VALVE MARKER POST
NOT TO SCALE

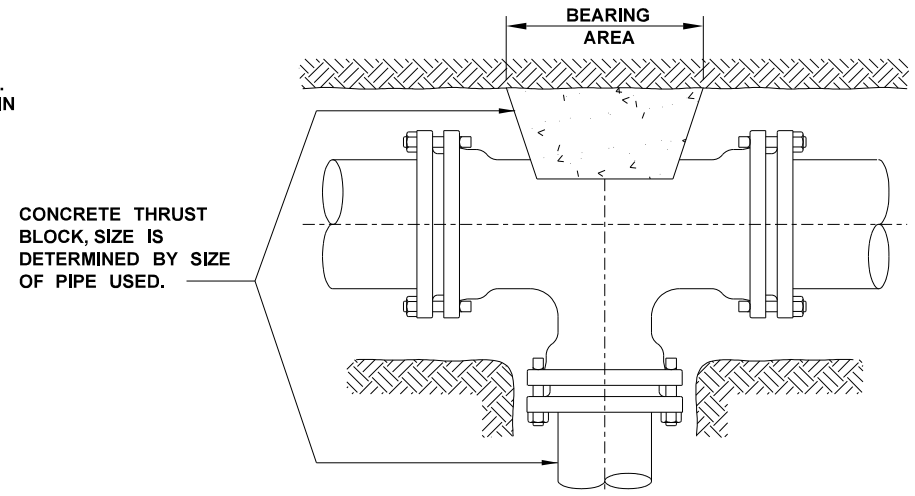
NOTES

1. THE FOG TITE INC VALVE MARKER POST WITH THE "WATER" LEGEND IS THE PRE-APPROVED PRODUCT. ALL OTHERS REQUIRE THE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
2. A VALVE MARKER POST SHALL BE REQUIRED WHENEVER A VALVE IS LOCATED OUTSIDE OF PAVED AREAS.



DETAIL Q
WATER MAIN CONNECTION
STA 441+08.00 (20.9'LT)
NOT TO SCALE

DETAIL R
WATER MAIN CONNECTION
STA 444+85.00 (20.8'LT)
NOT TO SCALE



DETAIL S
WATER MAIN
THRUST BLOCKING
NOT TO SCALE

FITTING SIZE (INCHES)	BEARING AREA OF BLOCK IN SQUARE FEET				
	TEES & PIPE ENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
1000 PSF SOIL BEARING STRENGTH					
3	1.6	2.3	1.3	1.0	1.0
4	2.8	4.0	2.2	1.1	1.0
6	6.4	9.0	4.9	2.5	1.2
8	11.3	16.0	8.7	4.5	2.3
10	17.7	25.0	13.6	6.9	3.5
12	25.4*	36.0*	19.5	10.0	5.0
14	34.6*	49.0*	26.5*	13.6	7.0
16	45.2*	64.0*	34.6*	17.7	8.9

2500 PSF SOIL BEARING STRENGTH					
3	1.0	1.0	1.0	1.0	1.0
4	1.1	1.6	1.0	1.0	1.0
6	2.6	3.6	2.0	1.0	1.0
8	4.5	6.4	3.5	1.8	1.0
10	7.1	10.0	5.4	2.8	1.4
12	10.1	14.4	7.8	4.0	2.0
14	13.8	19.6	10.6	5.4	2.8
16	18.1	25.6*	13.8	7.1	3.6

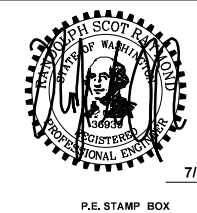
* MAXIMUM BEARING AREA ALLOWED IS 25 SQ. FT.; BEARING AREA MAY BE REDUCED BY USING RODS, RESTRAINED JOINT PIPE OR CONDUCTING SOILS TEST TO CONFIRM HIGHER SOIL BEARING

NOTES

1. BLOCK HEIGHT SHALL BE EQUAL OR LESS THAN ONE HALF OF THE TOTAL DEPTH FROM GROUND SURFACE TO BLOCK BASE.
2. BLOCK SIZE BASED ON 225 PSI TEST PRESSURE.
3. WRAP FITTINGS WITH POLYETHYLENE PLASTIC BEFORE POURING CONCRETE THRUST BLOCK. PROVIDE FORMS AS NECESSARY AND ENSURE ACCESS TO FITTING NUTS AND BOLTS.

APPROVED
BY: *[Signature]*
MUCKLESHOOT
PUBLIC WORKS PROJECT ENGINEER
DATE: 7/17/2020

NOTE: This approval is void after 3 years from approval date.









SR 164
PUSSYFOOT CREEK
FISH PASSAGE
WATER MAIN DETAILS

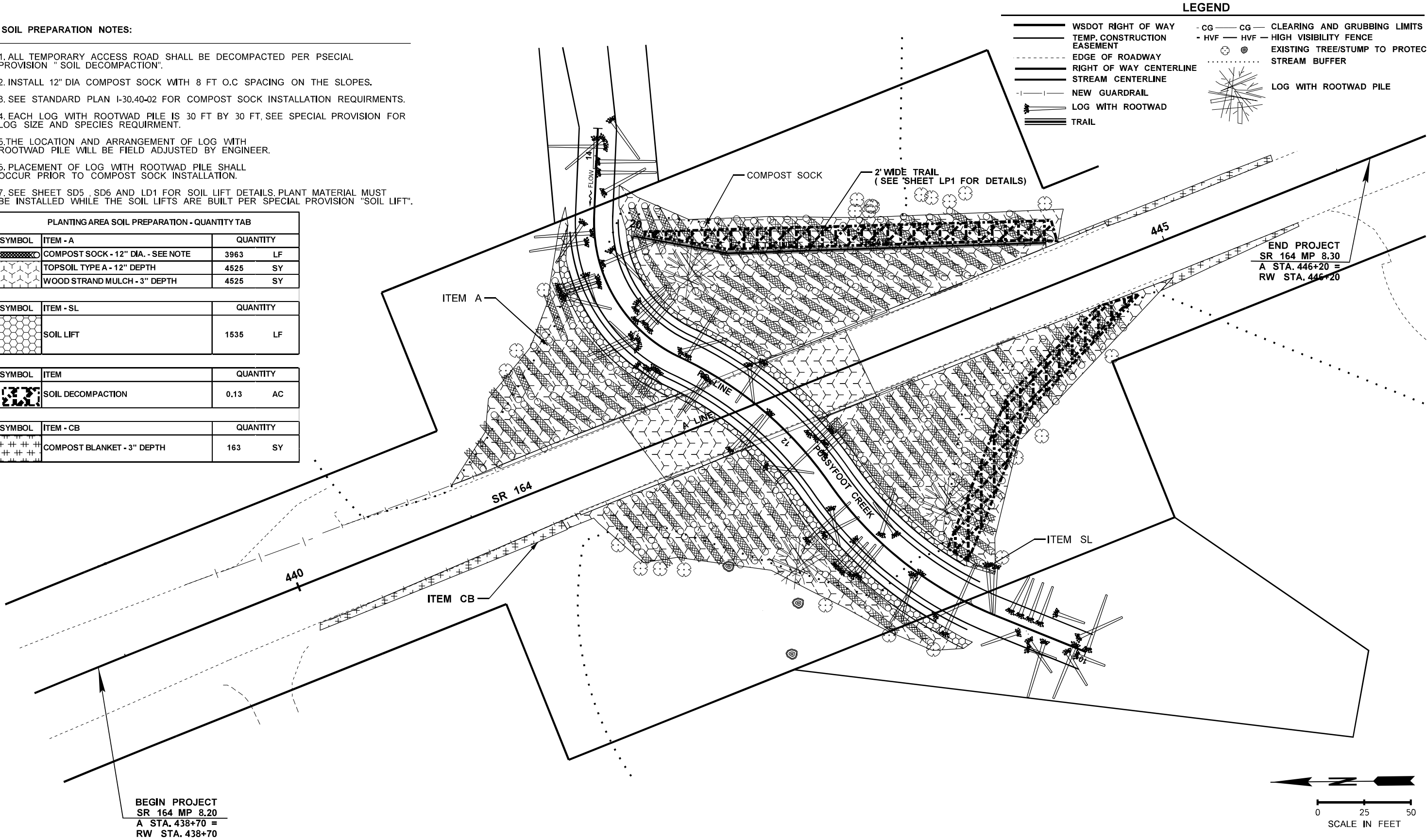
Plot 9
PLAN REF NO
UT9
SHEET
31
OF
100
SHEETS


FILE NAME	C:\Users\tylerjacipw_wsdot\0122211\XL5186_PS_UT.dgn					REGION NO.	STATE	FED.AID PROJ.NO.
TIME	9:53:16 AM					10	WASH	
DATE	7/20/2020							
PLOTTED BY	tylerjac							
DESIGNED BY	R. RAYMOND					JOB NUMBER		
ENTERED BY	C.D. CLARK					19A031		
CHECKED BY	J. WRIGHT					CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	N. PEN							
REGIONAL ADM.	M. COTTEN	REVISION	DATE	BY				

SOIL PREPARATION NOTES:

1. ALL TEMPORARY ACCESS ROAD SHALL BE DECOMPACTED PER PSECIAL PROVISION " SOIL DECOMPACTION".
2. INSTALL 12" DIA COMPOST SOCK WITH 8 FT O.C SPACING ON THE SLOPES.
3. SEE STANDARD PLAN I-30.40-02 FOR COMPOST SOCK INSTALLATION REQUIRMENTS.
4. EACH LOG WITH ROOTWAD PILE IS 30 FT BY 30 FT, SEE SPECIAL PROVISION FOR LOG SIZE AND SPECIES REQUIREMENT.
5. THE LOCATION AND ARRANGEMENT OF LOG WITH ROOTWAD PILE WILL BE FIELD ADJUSTED BY ENGINEER.
6. PLACEMENT OF LOG WITH ROOTWAD PILE SHALL OCCUR PRIOR TO COMPOST SOCK INSTALLATION.
7. SEE SHEET SD5 , SD6 AND LD1 FOR SOIL LIFT DETAILS. PLANT MATERIAL MUST BE INSTALLED WHILE THE SOIL LIFTS ARE BUILT PER SPECIAL PROVISION "SOIL LIFT".

PLANTING AREA SOIL PREPARATION - QUANTITY TAB			
SYMBOL	ITEM - A	QUANTITY	
	COMPOST SOCK - 12" DIA. - SEE NOTE	3963	LF
	TOPSOIL TYPE A - 12" DEPTH	4525	SY
	WOOD STRAND MULCH - 3" DEPTH	4525	SY
SYMBOL	ITEM - SL	QUANTITY	
	SOIL LIFT	1535	LF
SYMBOL	ITEM	QUANTITY	
	SOIL DECOMPACTION	0.13	AC
SYMBOL	ITEM - CB	QUANTITY	
	COMPOST BLANKET - 3" DEPTH	163	SY



FILE NAME c:\users\hossein\pw_wsdot\0202485\PS_LS.dgn		TIME 12:23:26 PM		DATE 10/9/2020		PLOTTED BY hossein		DESIGNED BY N.HOSSEINIDARPOSHTI		ENTERED BY N.HOSSEINIDARPOSHTI		CHECKED BY L.JUNGBLUTH		PROJ. ENGR. N.PEN		REGIONAL ADM. M.COTTEN		REVISION		DATE		BY		REGION NO. 10		STATE WASH		JOB NUMBER 19A031		CONTRACT NO.		LOCATION NO.		FED.AID PROJ.NO.		Digitally signed by Lindsey Jungbluth Date: 2020.10.12 06:52:00 -07'00'		 Washington State Department of Transportation		SR 164 PUSSYFOOT CREEK FISH PASSAGE		SOIL PREPARATION PLAN		Plot 1 PLAN REF NO SPP1		SHEET 32 OF 100 SHEETS	
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PLANTING AREAS PLANTING PLAN-QUANTITY TAB					
SYMBOL	ITEM	QUANTITY			
MIX W - (4' O.C)		W1	W2	W3	W4
	BIG LEAF MAPLE	8	7	9	8
	ALASKA YELLOW CEDAR	8	8	9	8
	WESTERN RED CEDAR	17	13	17	15
	SCOULER'S WILLOW	38	30	39	34
	RED-OSIER DOGWOOD	38	30	39	34
	SALMONBERRY	38	30	39	34
	LADY FERN	62	50	63	57

SYMBOL	ITEM	QUANTITY			
MIX D - (4' O.C)		D1	D2	D3	D4
	BIG LEAF MAPLE	10	8	27	21
	DOUGLAS FR	12	12	35	28
	WESTERN RED CEDAR	10	8	27	21
	INDIAN PLUM	49	42	135	106
	OCEANSPRAY	30	25	81	64
	SNOWBERRY	49	43	135	106
	THIMBLEBERRY	49	42	135	106
	WESTERN SWORD FERN	37	32	101	80

SYMBOL	ITEM	QUANTITY	
MIX R - (4' O.C)		R1	R2
	LADY FERN	13	12
	TALL OREGON GRAPE	20	17
	SNOWBERRY	41	35
	SALAL	20	17
	THIMBLEBERRY	40	34

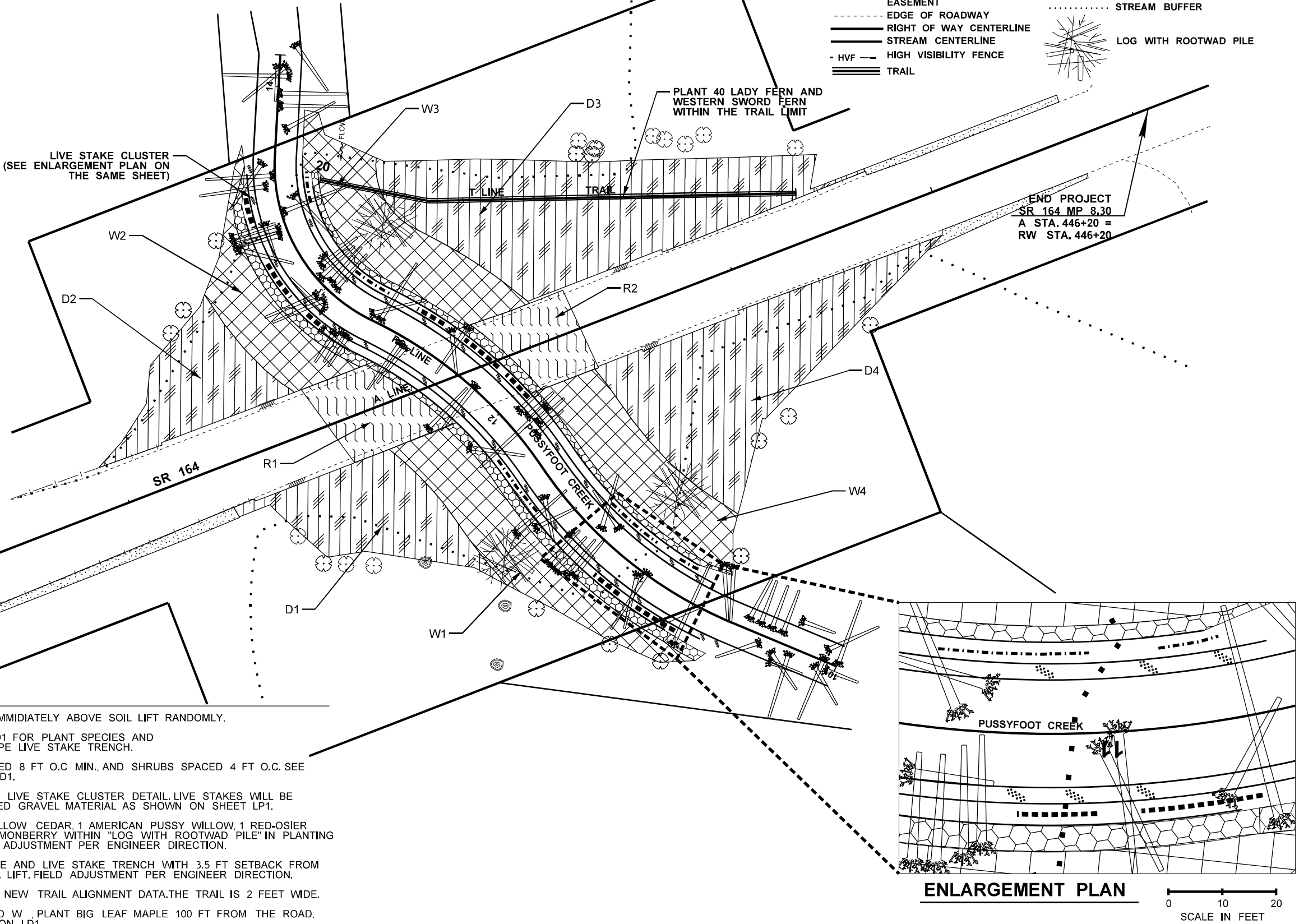
SYMBOL	ITEM	QUANTITY
MIX L - LIVE STAKE CLUSTER (1.5' O.C)		L1
	DOUGLAS SPIRAEA	112
	SITKA WILLOW	119
	PACIFIC NINEBARK	119

SYMBOL	ITEM	QUANTITY
LIVE FASCINE - (LF)		121
	SEE PLANT MATERIAL LIST SHEET LD1	
LIVE STAKE TRENCH - (LF)		104
	SEE PLANT MATERIAL LIST SHEET LD1	

SYMBOL	ITEM	QUANTITY
	SEEDING, FERTILIZING, AND MULCHING (ACRE)	0.03

LEGEND

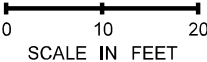
	WSDOT RIGHT OF WAY		EXISTING GUARDRAIL
	TEMP. CONSTRUCTION EASEMENT		EXISTING TREE/STUMP TO PROTECT
	EDGE OF ROADWAY		STREAM BUFFER
	RIGHT OF WAY CENTERLINE		LOG WITH ROOTWAD PILE
	STREAM CENTERLINE		
	HVF HIGH VISIBILITY FENCE		
	TRAIL		



PLANTING NOTES:

1. PLANT LADY FERN IMMEDIATELY ABOVE SOIL LIFT RANDOMLY.
2. SEE PLAN SHEET LD1 FOR PLANT SPECIES AND PERCENTAGE FOR PSPIE LIVE STAKE TRENCH.
3. TREES TO BE SPACED 8 FT O.C MIN., AND SHRUBS SPACED 4 FT O.C. SEE SETBACK CHART ON LD1.
3. SEE SHEET LD2 FOR LIVE STAKE CLUSTER DETAIL. LIVE STAKES WILL BE PLANTED IN STREAMBED GRAVEL MATERIAL AS SHOWN ON SHEET LP1.
4. PLANT 1 ALASKA YELLOW CEDAR, 1 AMERICAN PUSSY WILLOW, 1 RED-OSIER DOGWOOD AND 1 SALMONBERRY WITHIN "LOG WITH ROOTWAD PILE" IN PLANTING BEDS W1,W3,W4. FIELD ADJUSTMENT PER ENGINEER DIRECTION.
5. INSTALL LIVE FASCINE AND LIVE STAKE TRENCH WITH 3.5 FT SETBACK FROM THE TOE OF THE SOIL LIFT. FIELD ADJUSTMENT PER ENGINEER DIRECTION.
6. SEE SHEET AL1 FOR NEW TRAIL ALIGNMENT DATA. THE TRAIL IS 2 FEET WIDE.
8. IN PLANT MIX D AND W , PLANT BIG LEAF MAPLE 100 FT FROM THE ROAD. SEE SETBACK CHART ON LD1.

ENLARGEMENT PLAN



FILE NAME	c:\users\hossein\pw_wsdot\0202485\PS_LS.dgn	REGION NO.	STATE	FED.AID PROJ.NO.
TIME	12:24:00 PM	10	WASH	
DATE	10/9/2020			
PLOTTED BY	hossein			
DESIGNED BY	N.HOSSEINIDARPOSHTI	JOB NUMBER		
ENTERED BY	N.HOSSEINIDARPOSHTI	19A031		
CHECKED BY	L.JUNGBLUTH	CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	N.PEN			
REGIONAL ADM.	M.COTTEN	REVISION	DATE	BY



Digitally signed by Lindsey Jungbluth
Date: 2020.10.12 06:52:27 -07'00'



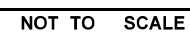
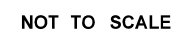
SR 164
PUSSYFOOT CREEK
FISH PASSAGE


RESTORATION PLAN

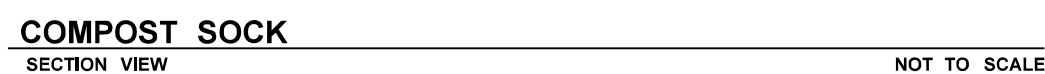
Plot 2

PLAN REF NO
LP1

SHEET
33
OF
100
SHEETS



FILE NAME c:\users\hossein\pw_wsdotd\0202485\PS_LS.dgn										Plot 5									
TIME 12:13:25 PM						REGION NO. STATE		FED.AID PROJ.NO.		 Digitally signed by Lindsey Jungbluth Date: 2020.10.12 06:53:33 -07'00'									
DATE 10/9/2020						10 WASH				SR 164 PUSSYFOOT CREEK FISH PASSAGE									
PLOTTED BY hossein						JOB NUMBER				SHEET 35 OF 100 SHEETS									
DESIGNED BY N.HOSSEINIDARPOSHTI						19A031				LANDSCAPE DETAILS									
ENTERED BY N.HOSSEINIDARPOSHTI						CONTRACT NO.		LOCATION NO.											
CHECKED BY L.JUNGBLUTH																			
PROJ. ENGR. N.PEN																			
REGIONAL ADM. M.COTTEN				REVISION		DATE		BY											



NOT TO SCALE

[illegible]

SIGN SPECIFICATIONS


[illegible]

GENERAL NOTES:

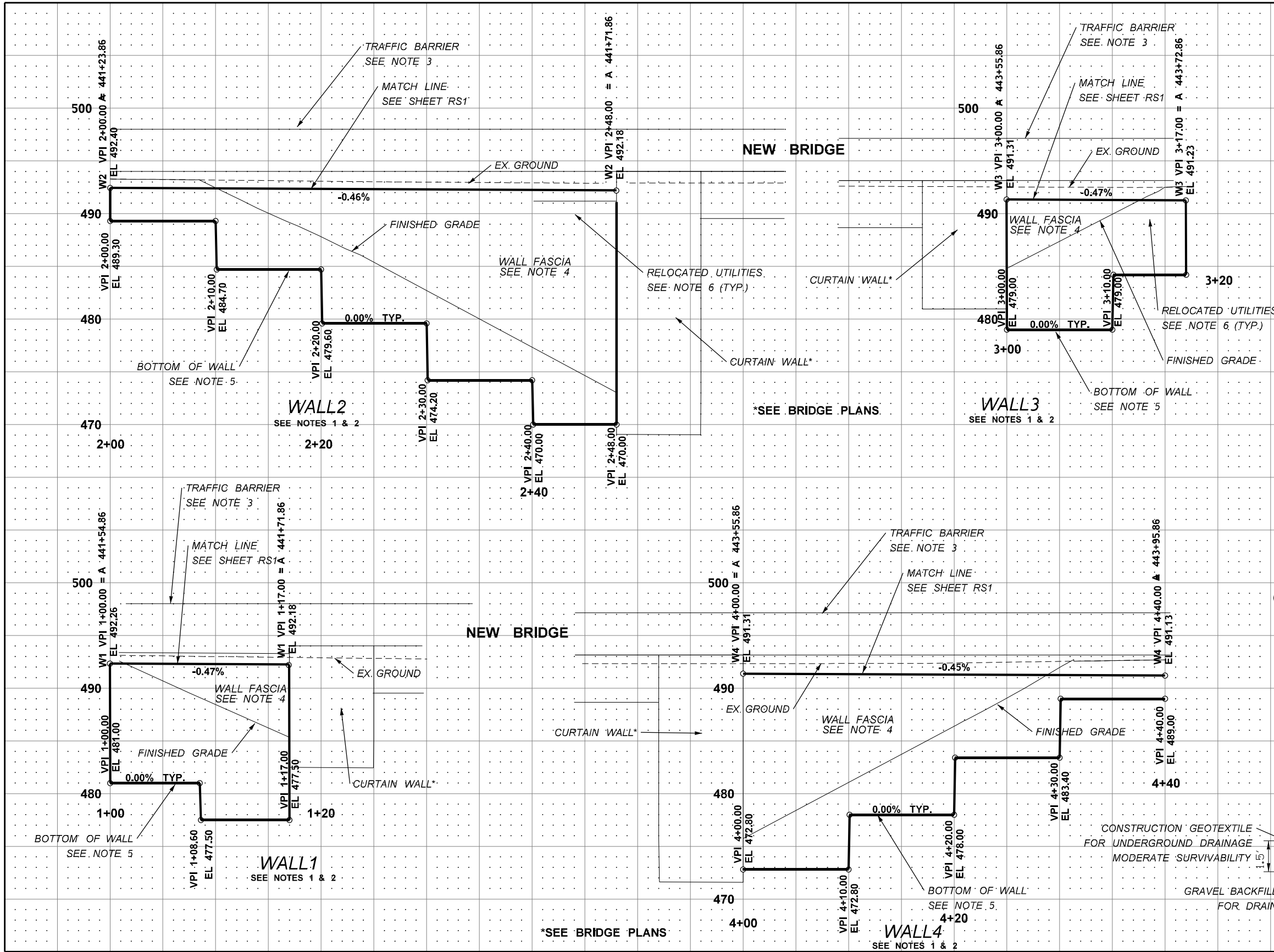
POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".
FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.
2.5" SQ. PERFORATED SQUARE STEEL TUBE POSTS SHALL BE 12 GAGE AND SHALL HAVE TYPE ST-4 SUPPORTS. SEE STANDARD PLAN G-24.50.

CONSTRUCTION NOTES:

1. EDGE OF SIGN SHALL BE 3' FROM FACE OF GUARDRAIL.

					REGION NO.	STATE	FED. AID PROJ. NO.	 Washington State Department of Transportation	SR 164 PUSSYFOOT CREEK FISH PASSAGE	SS 1
DESIGNED BY	L. ANGLIN				10	WASH				SHEET
ENTERED BY	L. ANGLIN				JOB NUMBER 19A031				37	
CHECKED BY	H. PIPER								OF	
PROJ. ENGR.	N. PEN				CONTRACT NO.				100	
REGION ADM.	M. COTTEN								SHEETS	
		REVISION	DATE	BY						

QUANTITY TABULATION - PAVING/MARKING																					
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.			EXTRUDED CURB	BEAM GUARDRAIL TYPE 31	BEAM GUARDRAIL TRANSITION SECTION TYPE 21	BEAM GUARDRAIL TYPE 31 NON FLARED TERMINAL	GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER DESIGN D (FOR INFORMATION ONLY)		FLEXIBLE GUIDE POST	PROFILED PLASTIC LINE	PLASTIC DRAINAGE MARKING	TEMPORARY PAVEMENT MARKING - SHORT DURATION						SEE GENERAL NOTES	GENERAL NOTES:		
CODE	LOCATION \ UNIT OF MEASURE >		L.F.	L.F.	EACH	EACH	EACH		EACH	L.F.	EACH	L.F.									
PV1-1	A 443+73.0 (18.5 LT) TO A 443+90.7 (18.5 LT)		18															1	1. EXTRUDED CURB TYPE 5, STD. PLAN F-10.42. 2. BEAM GUARDRAIL TYPE 31, STD. PLAN C-20.10. 3. ALL GUARDRAIL POSTS SHALL BE STEEL. 4. BEAM GUARDRAIL TRANSITION SECTION TYPE 21, STD. PLAN C-25.20. 5. GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER, STD. PLAN C-24.10, DESIGN D. 6. GUARDRAUL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER, STD. PLAN C-24.10, INCIDENTAL TO BID ITEM "BEAM GUARDRAIL TRANSITION SECTION TYPE 21." 7. BEAM GUARDRAIL TYPE 31 NON FLARED TERMINAL, STD. PLAN C-22.40. 8. NOT USED 9. PROFILED PLASTIC LINE, STD. PLAN M-20.10 AND STD. PLAN M-20.20. 10. FLEXIBLE GUIDE POST, TYPE WW GUARDRAIL MOUNT, STD. PLAN M-40.10. 11. ALL PLASTIC MARKINGS SHALL BE TYPE D. 12. PLASTIC DRAINAGE MARKING SEE STD. PLAN M-24.60, "CROSS CULVERT" 13. OFFSET TERMINAL 2 FEET FROM EDGE OF SHOULDER. 14. PLASTIC DRAINAGE MARKING SEE STD. PLAN M-24.60, "DRAINAGE STRUCTURE INLET"		
PV1-2	A 443+67.0 (18.5 LT) TO A 444+75.0 (20.5 LT)				1	1	1		2								2,3,4,5,6,7,10,13				
PV1-3	A 440+10.0 (23.0 RT) TO A 441+60.0 (18.5 RT)			50	1	1	1		3								2,3,4,5,6,7,10				
PV1-4	A 443+90.0 (18.5 RT) TO A 444+98.0 (20.5 RT)				1	1	1		2								2,3,4,5,6,7,10,13				
PV1-5	A 440+22.5 (22.0 LT) TO A 441+30.0 (18.5 LT)				1	1	1		3									2,3,4,5,6,7,10			
PV1-10	A 438+70.0 (O.C.) TO A 446+20.0 (O.C.)									2160		1080						9,11			
PV1-11	A 438+70.0 (14.0 LT) TO A 446+20.0 (11.0 LT)									750		750						9,11			
PV1-12	A 438+70.0 (17.5 RT) TO A 446+20.0 (11.0 RT)									750		750						9,11			
PV1-13	A 444+89.1 (16.8 LT)										1							11,12			
PV1-14	A 444+88.8 (17.2 RT)										1							11,12			
PV1-15	A 439+95.3 (15.3 LT)										1										
PV1-20	A 443+95.9 (18.5 RT TO 444+06.1 (18.5 RT)		10															1			

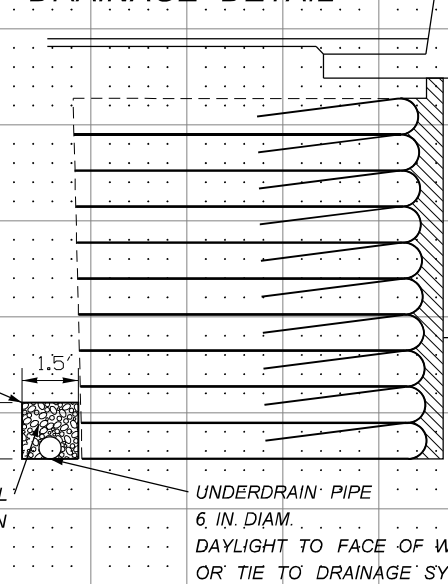




- NOTES:
1. FOR WALL DESIGN SEE STD. PLAN D-3.09 PERMANENT GEOSYNTHETIC WALL, TYPE 1.
 2. FOR WALL HEIGHTS GREATER THAN 11' THE REINFORCEMENT LENGTH (L) SHALL BE EQUAL TO THE TOTAL WALL HEIGHT (H).
 3. FOR BARRIER DETAILS SEE BRIDGE PLANS.
 4. PRECAST PERMANENT GEOSYNTHETIC WALL FASCIA SEE STD. PLAN D-3.11.
 5. SEE GEOSYNTHETIC WALL DRAINAGE DETAIL THIS SHEET.
 6. NEW SEWER AND WATER LINES SEE SHEET UT1.
 7. FOR WALL LOCATION AND QUANTITIES SEE SHEET PV1.

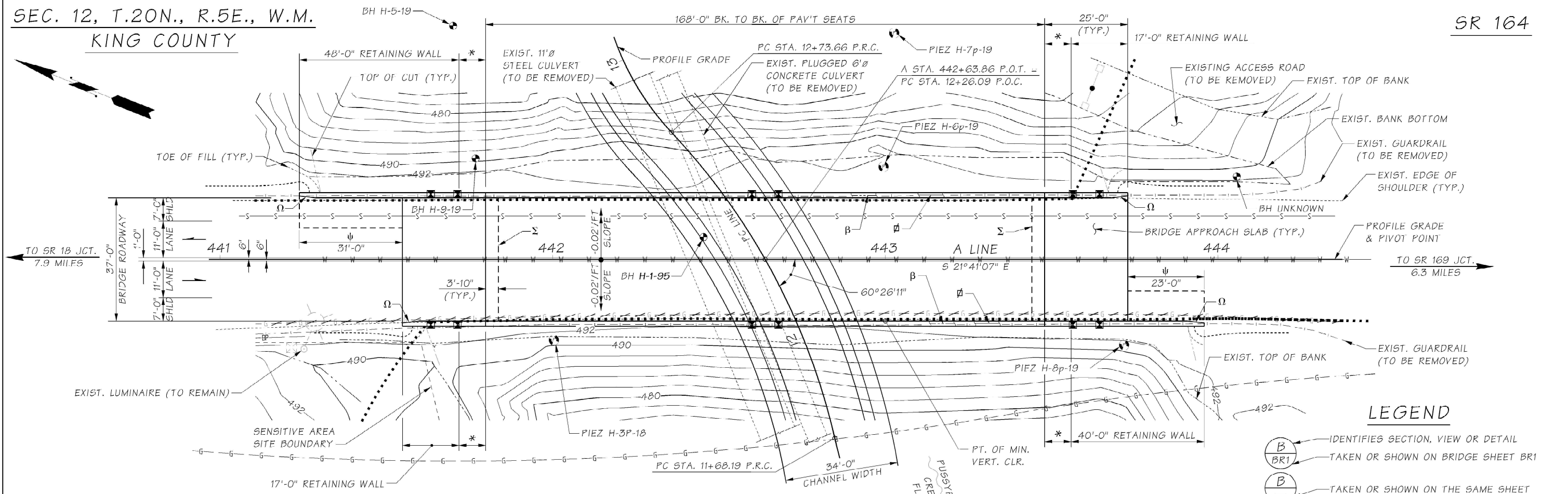


(NAVD) 88

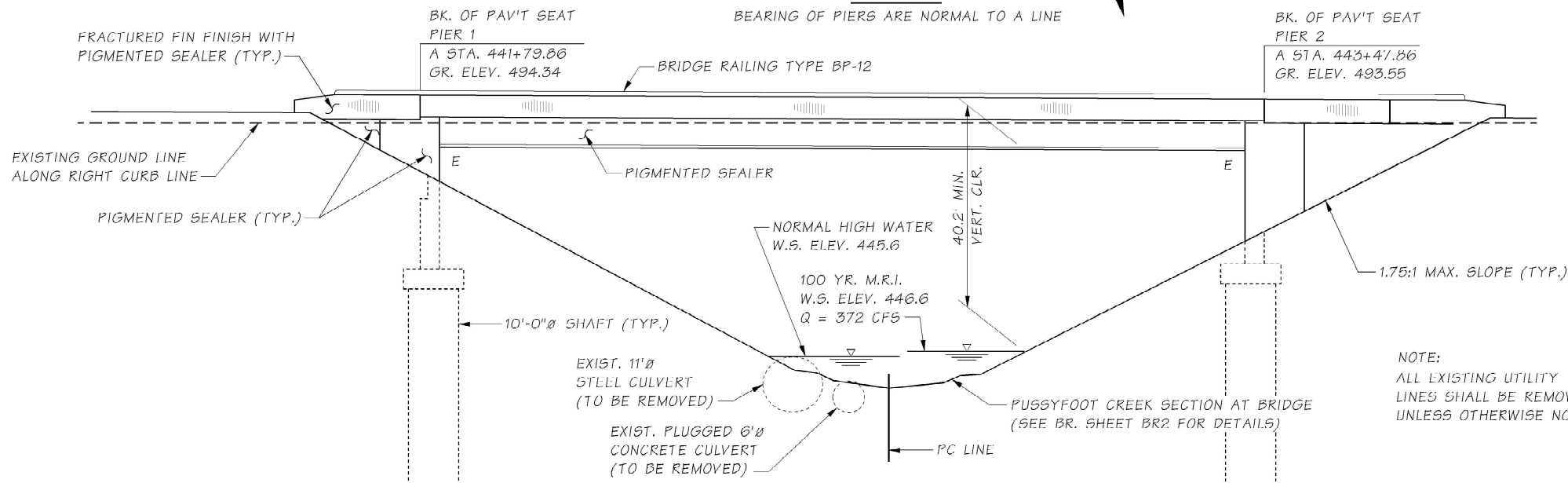
GEOSYNTHETIC WALL DRAINAGE DETAIL



FILE NAME c:\users\rlillinm\pw_wsdot\012221\XL5186_PR_WALL.dgn										 P.E. STAMP BOX		 Washington State Department of Transportation	SR 164 PUSSYFOOT CREEK FISH PASSAGE			PLAN REF. NO. WP1																																																																																																																																																																																																																																																																																																																																																																																																																																																												
TIME 9:40:21 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	LOCATION NO.	SHEET 40 OF 100 SHEETS																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
DATE 10/9/2020				JOB NUMBER 19A031																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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PLAN



ELEVATION

- LEGEND**
- IDENTIFIES SECTION, VIEW OR DETAIL
 - TAKEN OR SHOWN ON BRIDGE SHEET BR1
 - TAKEN OR SHOWN ON THE SAME SHEET
 - EXIST. BURIED POWER
 - 8" WATER LINE
 - 8" SEWER LINE
 - EXIST. GAS LINE (TO REMAIN)
 - EXIST. DEACTIVATED GAS LINE
 - EXIST. STREAM BUFFER
 - 8'-0" CURTAIN WALL
 - EXPANSION BEARING
 - 2 ~ 2" CONDUIT PIPES IN TRAFFIC BARRIER FOR FULL LENGTH OF BARRIER
 - SOIL BORING LOCATIONS
 - FRONT FACE OF ABUTMENT WALL
 - BEAM GUARDRAIL CONNECTION TYPE "D" (STD. PLAN C-24.10)
 - GEOSYNTHETIC WALL SINGLE SLOPE TRAFFIC BARRIER
 - JUNCTION BOX NEMA 4X
 - TYPE 1 JUNCTION BOX
 - EXIST. JUNCTION BOX
 - BRIDGE RAILING TYPE BP-12
 - PIEZOMETER LOCATIONS
 - EXISTING CABLE BARRIER (TO BE REMOVED)

P.C. GIRDERS (WF74TDG)

W/6 1/2" MIN. C-I-P DECK

LOADING: HL-93

SEISMIC OPERATIONAL CLASSIFICATION: NORMAL

DATUM

NAVD 88

REFERENCE LINE
ELEVATION 420.0

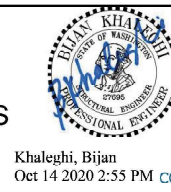
NOTE: 500 YR M.R.I.
W.S. ELEV. 446.9
Q = 485 CFS

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF
BRIDGE DECK ON A LINE AND ARE EQUAL TO PROFILE GRADE.
SEE STD. PLAN A-50.10 FOR EMBANKMENT DETAILS AT BRIDGE ENDS.

NOTE:
ALL EXISTING UTILITY
LINES SHALL BE REMOVED
UNLESS OTHERWISE NOTED.

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\001 LAYOUT.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A							
Checked By	Reid, Z							
Detailed By	Davis, E							
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APP'D			

BRIDGE
AND
STRUCTURES
OFFICE

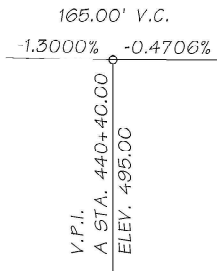


SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

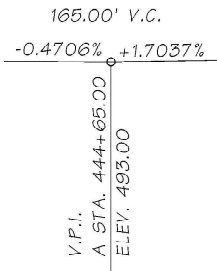
LAYOUT

BRIDGE
SHEET NO.
BR1
SHEET
41
OF
100
SHEETS

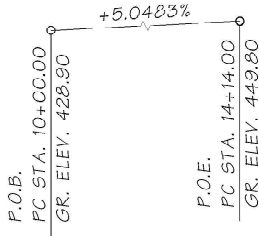
PC LINE CURVE DATA					
P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
12+22.18	30°12'50" LT.	200.00'	53.99'	105.47'	N 55°20'21" E
13+27.07	67°27'49" RT.	80.00'	53.42'	94.20'	N 25°07'31" E



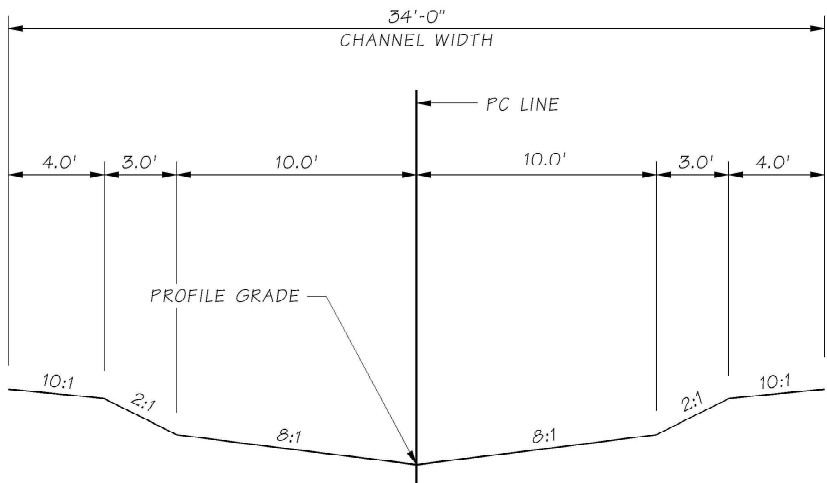
A LINE PROFILE



A LINE PROFILE



PC LINE PROFILE



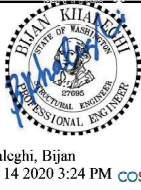
PUSSYFOOT CREEK
SECTION AT BRIDGE

DIMENSIONS MEASURED NORMAL TO PC LINE

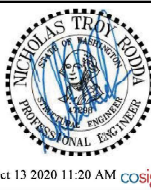
GENERAL NOTES:

- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2021.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION 2017. DEAD LOAD INCLUDES ADDITIONAL FUTURE WEARING SURFACE OF 35 POUNDS PER SQUARE FOOT. THE BRIDGE TRAFFIC BARRIERS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS FOR TEST LEVEL 4 (TL-4) RAILINGS.
- THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION 2011 WITH INTERIMS THROUGH 2015, USING SEISMIC DESIGN CATEGORY C, SITE CLASS D, A PEAK GROUND ACCELERATION OF 0.36, AND 0.2 SECOND AND 1.0 SECOND SPECTRAL ACCELERATION OF 0.82 AND 0.24, RESPECTIVELY, ON SITE CLASS B.
- THE CONCRETE IN BRIDGE DECKS SHALL BE CLASS 4000D. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. THE CONCRETE IN SHAFTS SHALL BE CLASS 5000P. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-09.3(1)E.
- UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, 3" AT THE BOTTOM OF SHAFT CAP AND 2" AT ALL OTHER LOCATIONS.
- FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S. AND OTHER CIVIL PLANS.

Bridge Design Engr.	Khaleghi, B	M:\w-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\002 GEN NOTE & DATA.wnd
Supervisor	Rodda, NT		
Designed By	Jaberi, A	10/19	
Checked By	Reid, Z	02/20	
Detailed By	Davis, E	10/19	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APPD



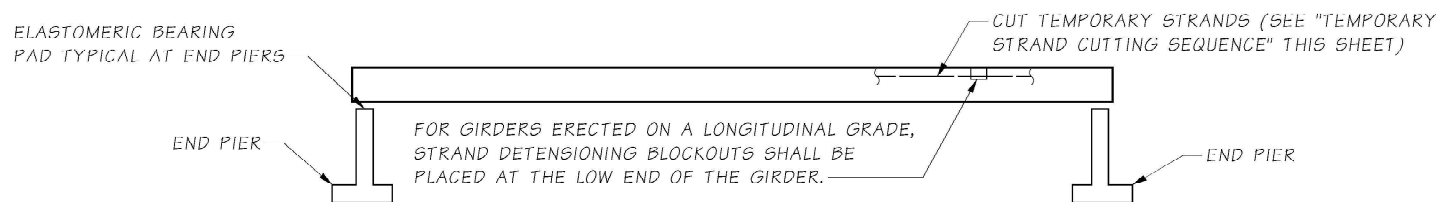
BRIDGE
AND
STRUCTURES
OFFICE



SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

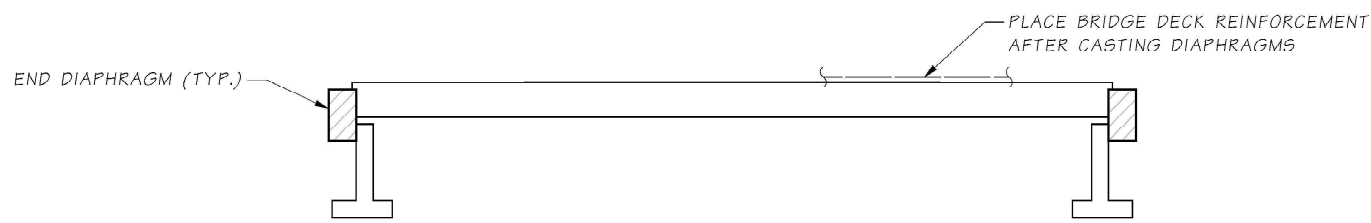
DATA AND GENERAL NOTES

SR 164 FILE NO. SHEET BR3



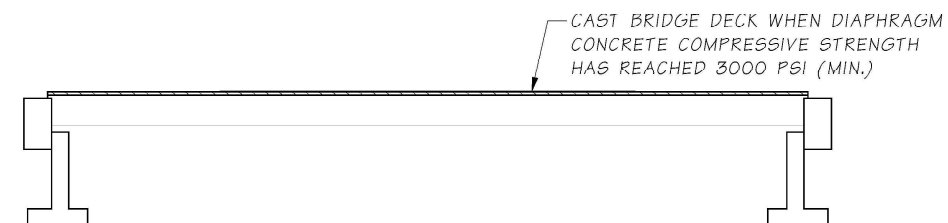
STAGE 1
SET GIRDERS IN PLACE

INSTALL TEMPORARY BRACING FOR ERECTION IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F4.

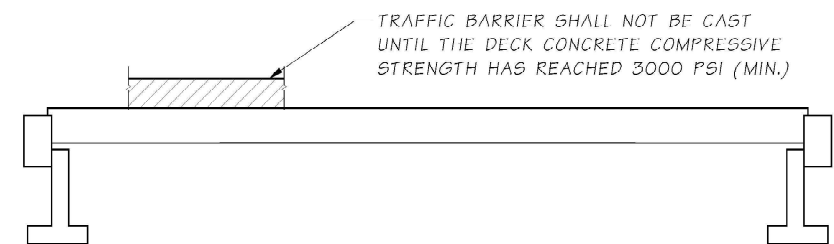


STAGE 2
CAST DIAPHRAGMS AND
PLACE BRIDGE DECK REINFORCEMENT

INSTALL TEMPORARY BRACING FOR DIAPHRAGM PLACEMENT IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F5.



STAGE 3
CAST BRIDGE DECK



STAGE 4
CAST TRAFFIC BARRIERS

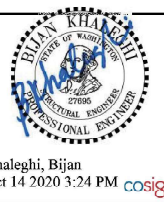
CONSTRUCTION SEQUENCE ~ SUPERSTRUCTURE

TEMPORARY STRAND
CUTTING SEQUENCE

1. ERECT AND BRACE GIRDERS.
2. JUST PRIOR TO CUTTING THE TEMPORARY STRANDS, REMOVE EXPANDED POLYSTYRENE IN BLOCKOUTS IN TOP FLANGE OF GIRDERS. ONCE THE EXPANDED POLYSTYRENE HAS BEEN REMOVED FROM THE STRAND DETENSIONING BLOCKOUT, PREVENT MOISTURE FROM ENTERING THE BLOCKOUT UNTIL THE TEMPORARY TOP STRAND IS CUT AND THE BLOCKOUT FILLED WITH GROUT.
3. CUT STRANDS IN BLOCKOUTS. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE RELEASED IN A SYMMETRICAL MANNER ABOUT THE GIRDER CENTERLINE STARTING WITH THOSE FURTHEST FROM THE CENTERLINE AND WORKING INWARDS. FOR POST-TENSIONED TEMPORARY TOP STRANDS, ACTIVELY RESTRAIN THE STRAND CHUCKS AT THE GIRDER ENDS DURING CUTTING.
4. WITHIN 24 HOURS OF CUTTING THE TEMPORARY STRANDS, FILL THE BLOCKOUTS WITH A GROUT CONFORMING TO STD. SPEC. 9-20.3(2). REMOVE ALL MOISTURE IN BLOCKOUTS PRIOR TO FILLING THEM WITH GROUT.

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\003 CONSTR SEQ.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A	10/19		JOB NUMBER 19A031				
Checked By	Reid, Z	02/20		CONTRACT NO.				
Detailed By	Davis, E	10/19						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APPD			

Tue Oct 19 10:49:46 2020



Khaleghi, Bijan
Oct 14 2020 3:24 PM cosign

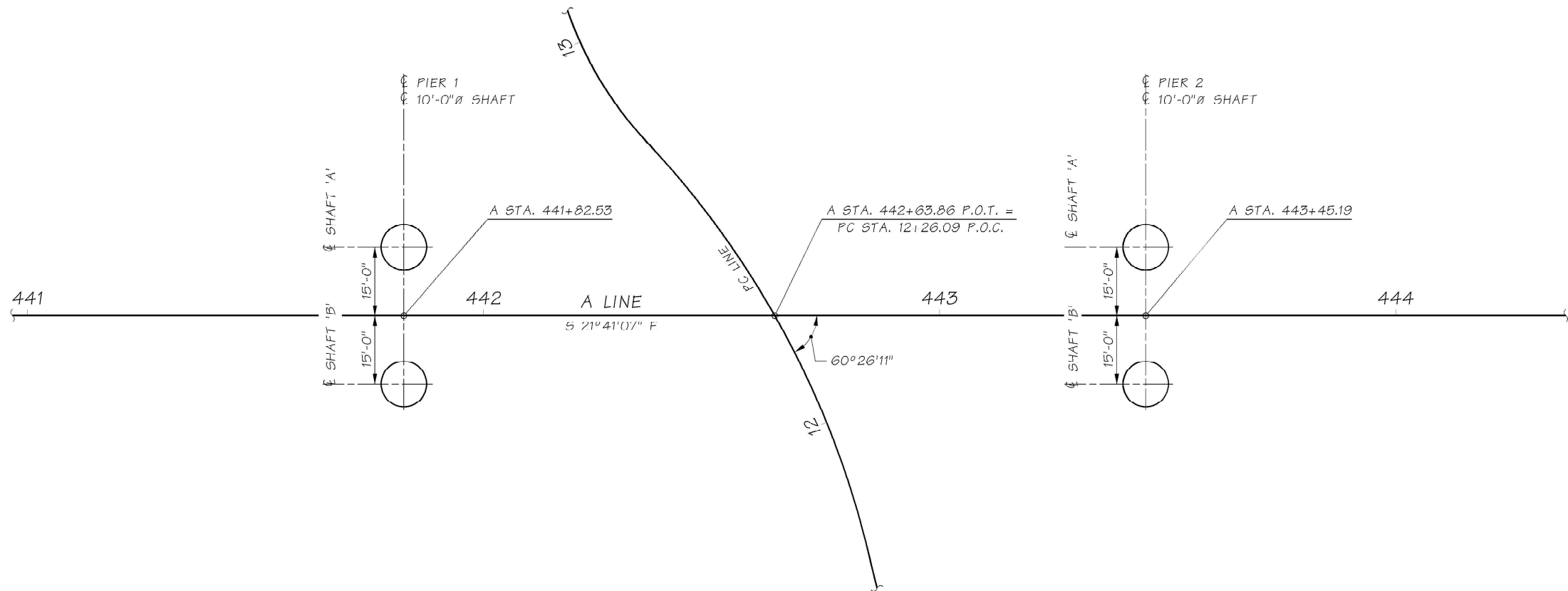
BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:20 AM cosign



SR 164 PUSSYFOOT CREEK FISH PASSAGE NEW BRIDGE NO. 164/25		BRIDGE SHEET NO. BR3
CONSTRUCTION SEQUENCE		SHEET 43 OF 100 SHEETS



FOUNDATION LAYOUT

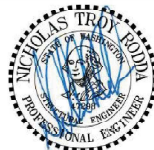
BEARING OF PIERS ARE NORMAL TO A LINE

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSYFOOT CREEK\SR 164 PUSYFOOT	CR\window files\004 FOUNDATION LAYOUT.wnd
Supervisor	Rodda, NT		
Designed By	Jaberi, A	10/19	
Checked By	Reid, Z	02/20	
Detailed By	Davis, E	10/19	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist			
DATE	REVISION	BY	APPD



Khaleghi, Bijan
Oct 14 2020 3:24 PM cosign

BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:21 AM cosign

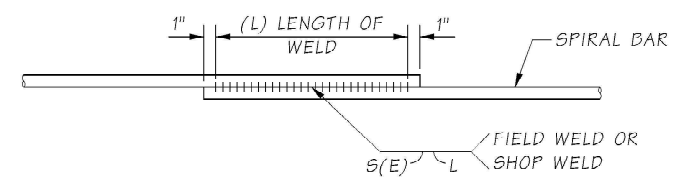
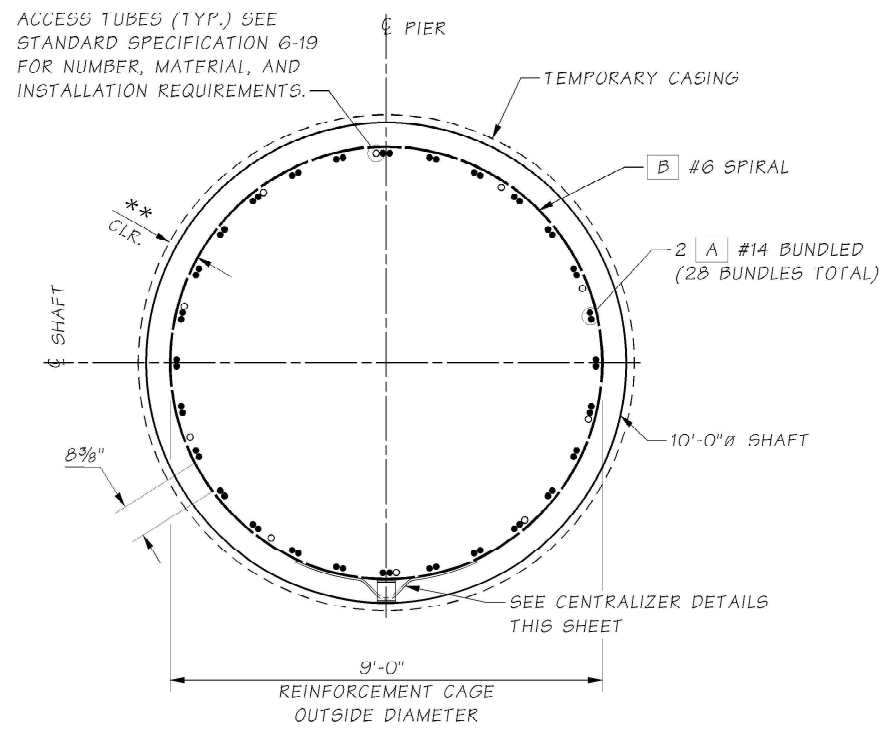
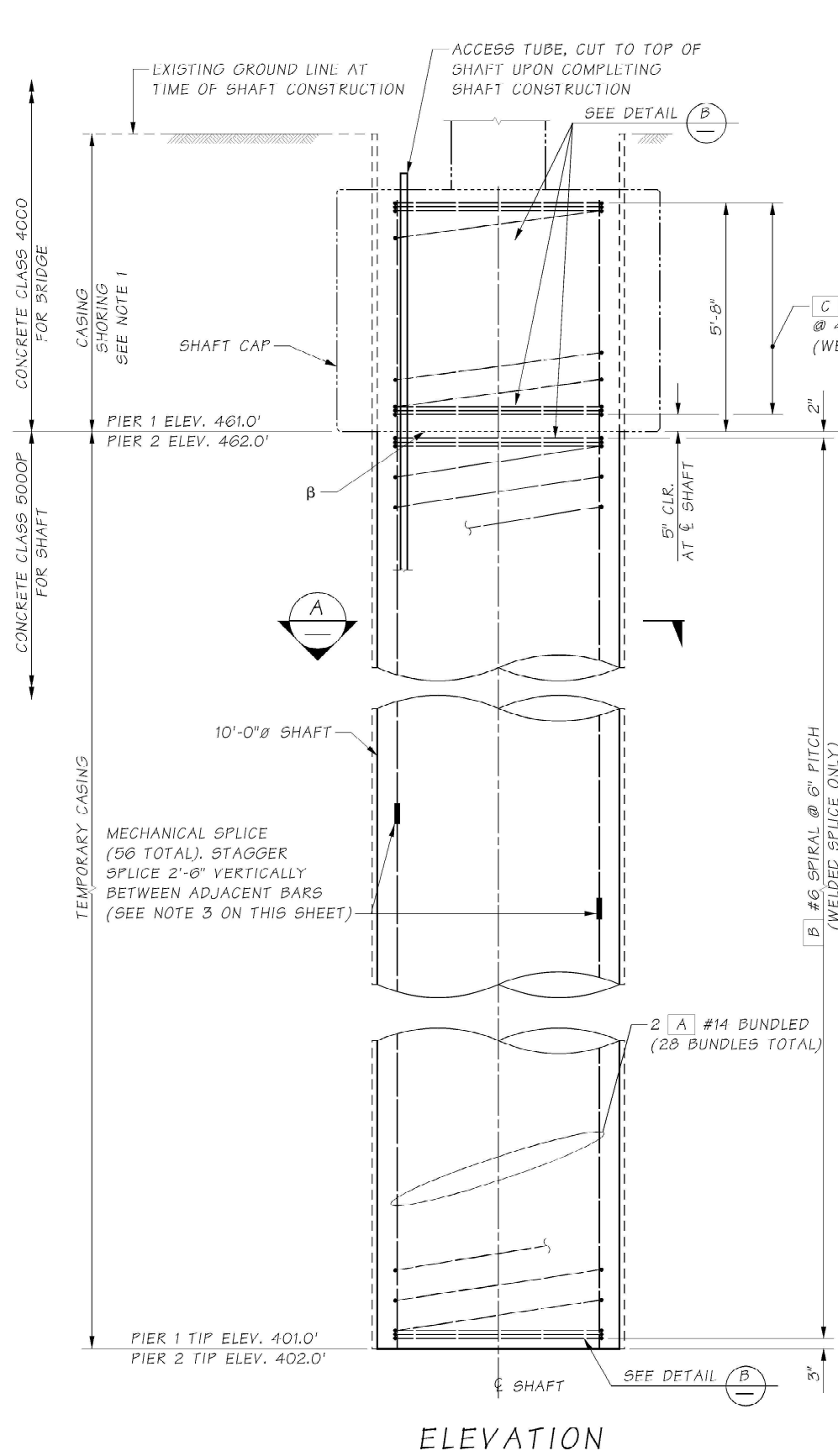


Washington State
Department of Transportation

SR 164
PUSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

FOUNDATION LAYOUT

BRIDGE
SHEET
NO.
BR4
SHEET
44
OF
100
SHEETS

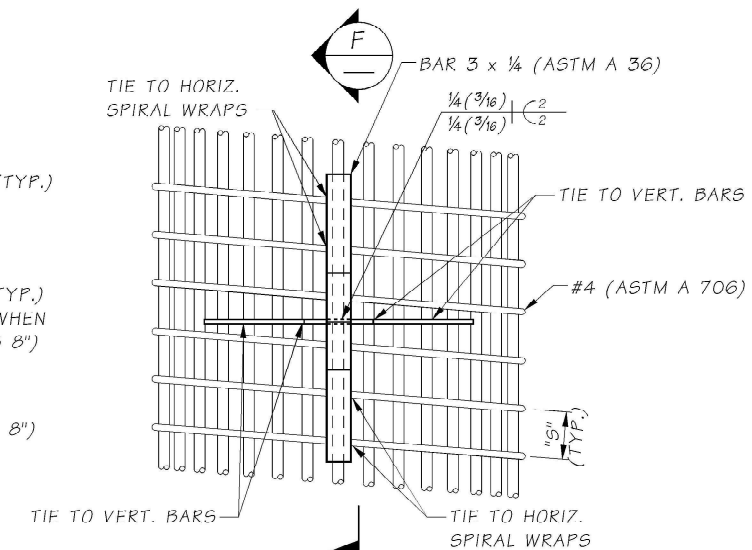
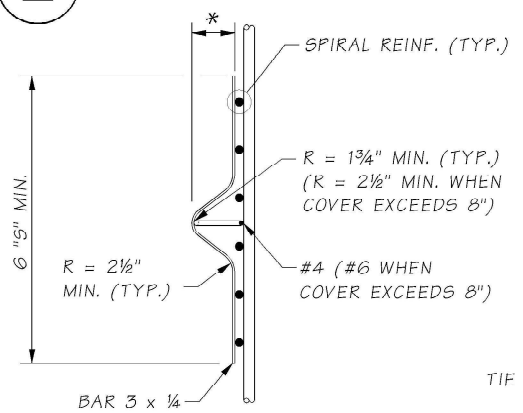
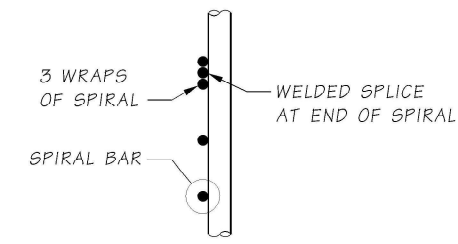


WELDED LAP SPLICE DETAIL

WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E FOR WELD DIMENSIONS, SEE TABLE BELOW.

SHAFT SPIRAL TABLE			
DEFORMED BAR	WELD DIMENSIONS (IN.)		
	S	E	LENGTH (L)
#6	3/8	3/16	6

B CONSTRUCTION JOINT WITH ROUGHENED SURFACE. REMOVE SEDIMENT, LAITENCE & WEAK CONCRETE TO SOUND CONCRETE PRIOR TO SETTING CROSSBEAM REINFORCEMENT.



CENTRALIZED DETAIL

EPOXY COAT CENTRALIZED AFTER FABRICATION

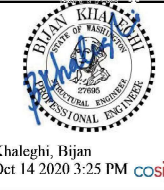
CENTRALIZER NOTES:

- CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH PAINT CONFORMING TO STANDARD SPECIFICATION 9-08.1(2)C OR 9-08.1(2)F AFTER FABRICATION.
- EACH LEG SHALL BE TIED TO TWO VERTICAL BAR AND TWO SPIRAL WRAPS OR TWO HOOPS.
- SEE STD. SPEC. 6-19.3(5)B FOR SPACING REQUIREMENTS.
- CAGECASTER® REBAR CAGE SPACERS MAY BE USED IN LIEU OF DETAIL SHOWN. SPACING REQUIREMENTS FOR CAGECASTER® SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. EACH LEG SHALL BE TIED TO A MINIMUM OF TWO SPIRAL WRAPS OR HOOPS.

NOTES:

- CASING SHORING SHALL BE DELETED IF THE CONTRACTOR SHORES AND EXCAVATES FOR THE SHAFT CAP PRIOR TO THE SHAFT EXCAVATION.
- MECHANICAL SPLICE SHALL PROVIDE A MECHANICAL CONNECTION BETWEEN TWO REBARS WITH THREADED ENDS. MECHANICAL SPLICES SHALL MEET THE REQUIREMENTS OF STD. SPEC. SEC. 6-02.3(24)F.
- IF THE CONTRACTOR DOES NOT PLACE THE SHAFT CAP IN THE SAME CONSTRUCTION WINDOW AS THE INSTALLATION OF THE SHAFTS, THE CONTRACTOR SHALL FILL THE AREA CONTAINED BY THE CASING SHORING IN THE SHAFT CAP WITH GRAVEL BACK FILL FOR DRAINS TO PROTECT THE SHAFT TO SHAFT TO SHAFT CAP REINFORCING STEEL PRIOR TO BACKFILLING THE UPPER PORTION OF THE CASING SHORING EXCAVATION AREA TO OPEN THE ROADWAY FOR NORMAL OPERATIONS.

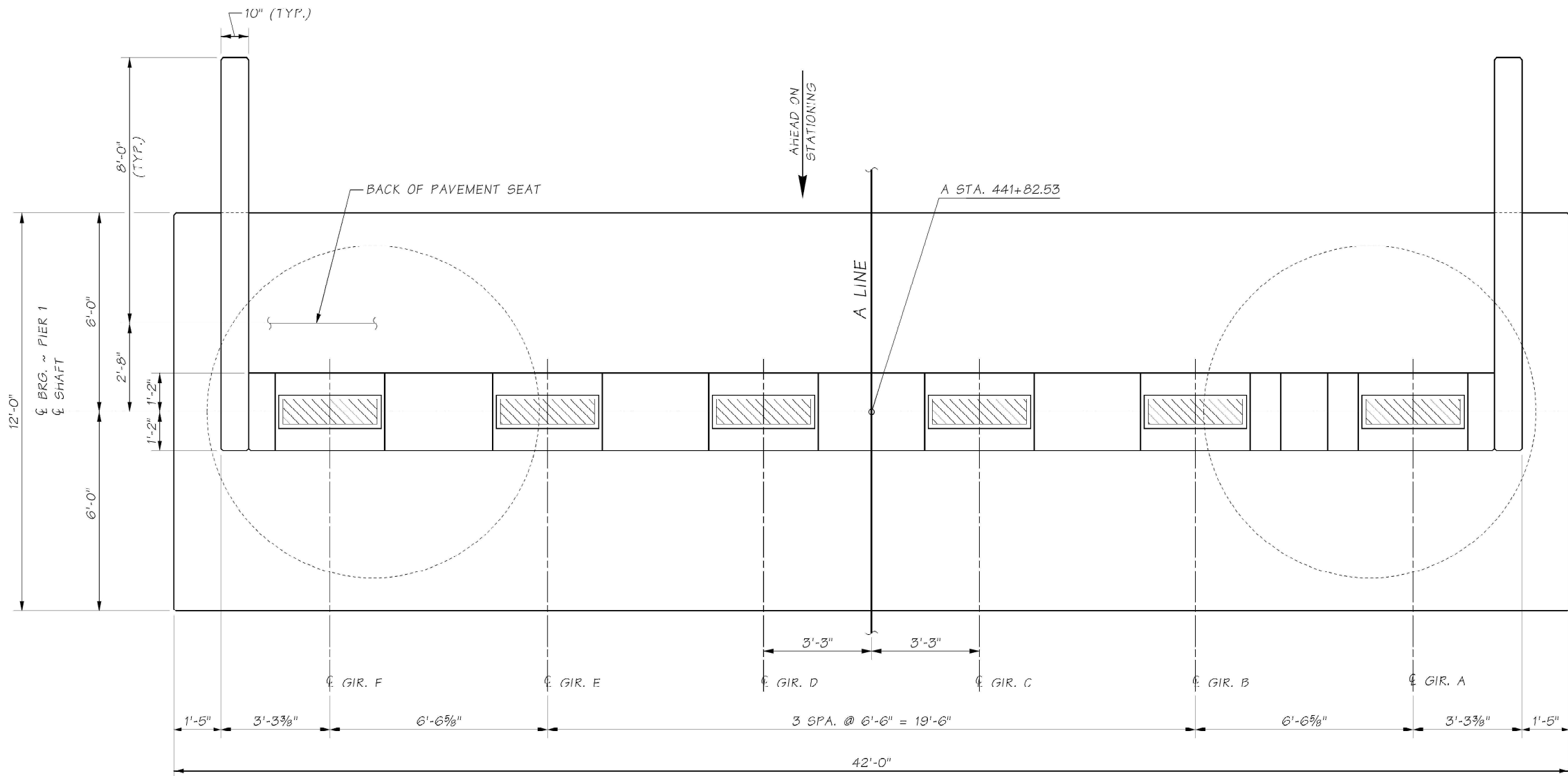
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\005 SHAFT DET.wnd	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				
Designed By	Jaberi, A	10/19			
Checked By	Reid, Z	02/20			
Detailed By	Davis, E	10/19			
Bridge Projects Engr.					
Prelim. Plan By					
Architect/Specialist		DATE	REVISION	BY	APP'D



BRIDGE AND STRUCTURES OFFICE

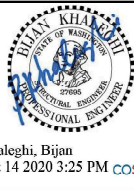


SR 164 PUSSYFOOT CREEK FISH PASSAGE NEW BRIDGE NO. 164/25	BRIDGE SHEET NO. BR5
PIER 1 & 2 SHAFT DETAILS	SHEET 45 OF 100 SHEETS

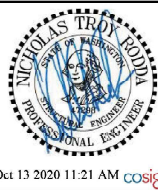


PLAN

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\006 PIER 1 PLN.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A	10/19		JOB NUMBER 19A031				
Checked By	Reid, Z	02/20		CONTRACT NO.				
Detailed By	Davis, E	10/19						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APPD			



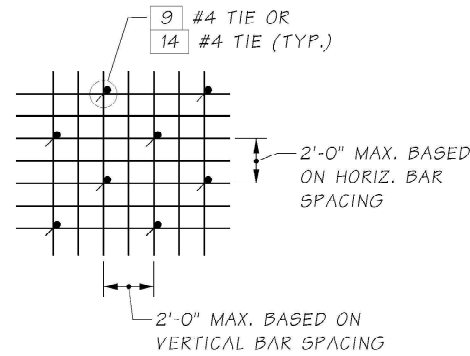
BRIDGE
AND
STRUCTURES
OFFICE



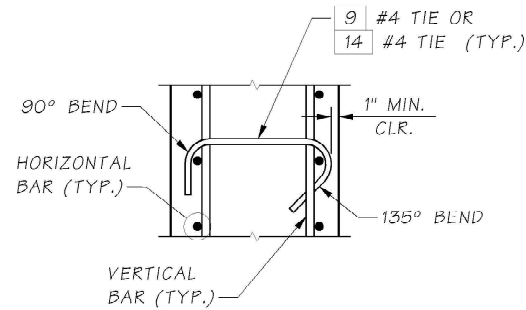
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 1 PLAN

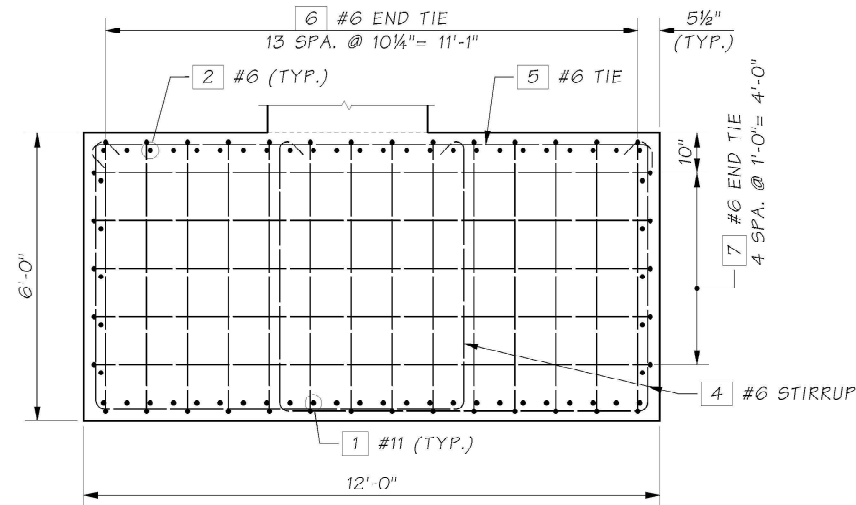
TIE BAR SPACING DETAIL



TIE BAR DETAIL

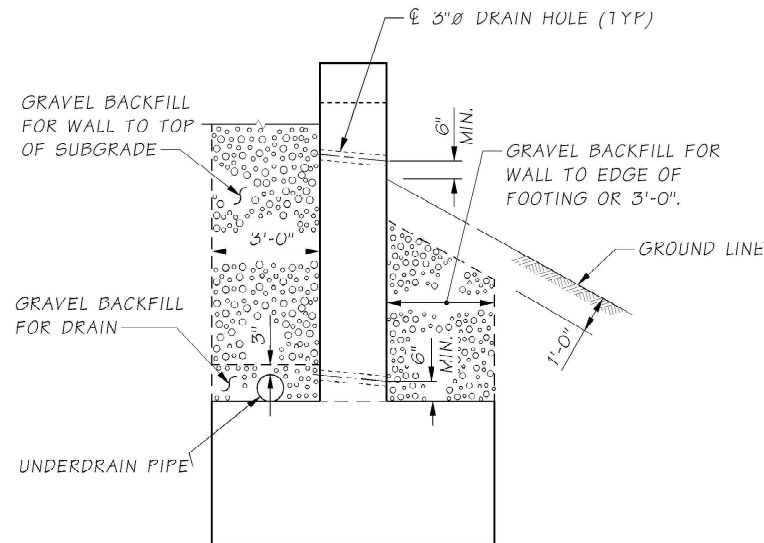


SECTION C BR7

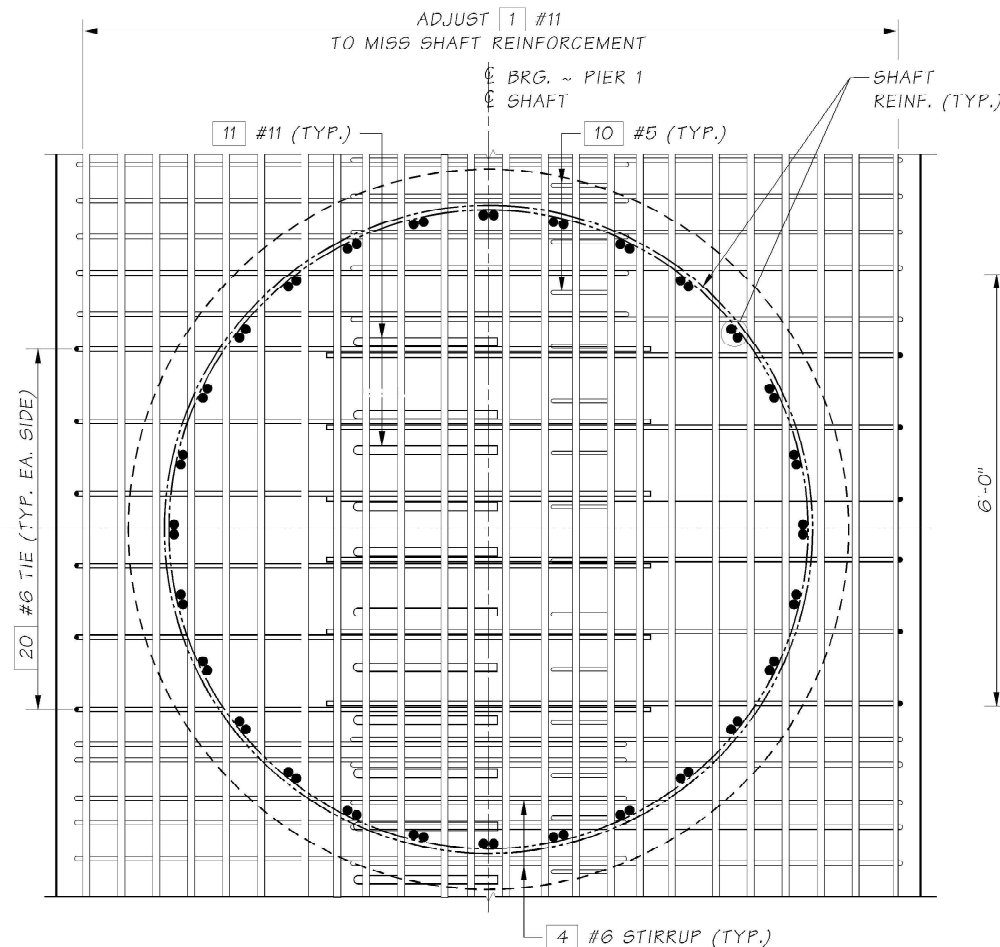


LEGEND:
N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE

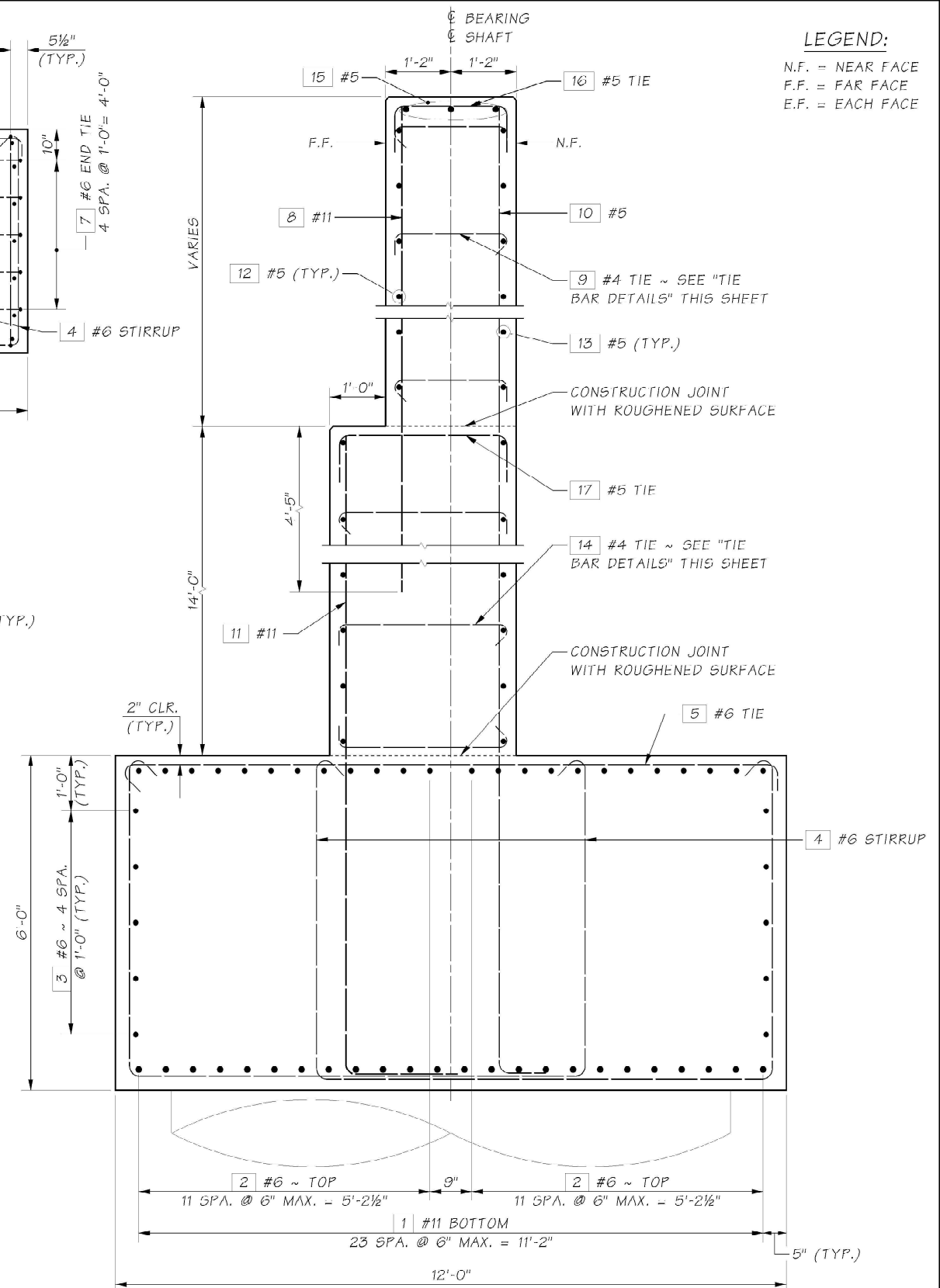
DRAINAGE DETAIL



SECTION B BR7



SECTION A BR7

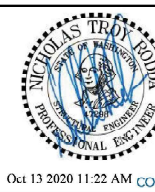


Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\008 PIER 1 DET 1.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT		10	WASH.			
Designed By	Jaberi, A	10/19					
Checked By	Reid, Z	02/20					
Detailed By	Davis, E	10/19					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist							
DATE	REVISION	BY	APP'D	JOB NUMBER	CONTRACT NO.		
				19A031			



Khaleghi, Bijan
Oct 14 2020 3:26 PM cosign

BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:22 AM cosign

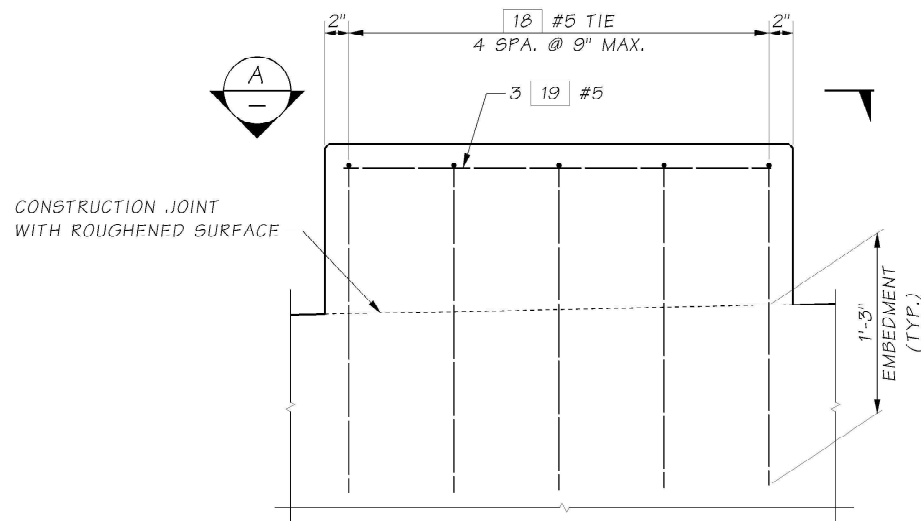


Washington State
Department of Transportation

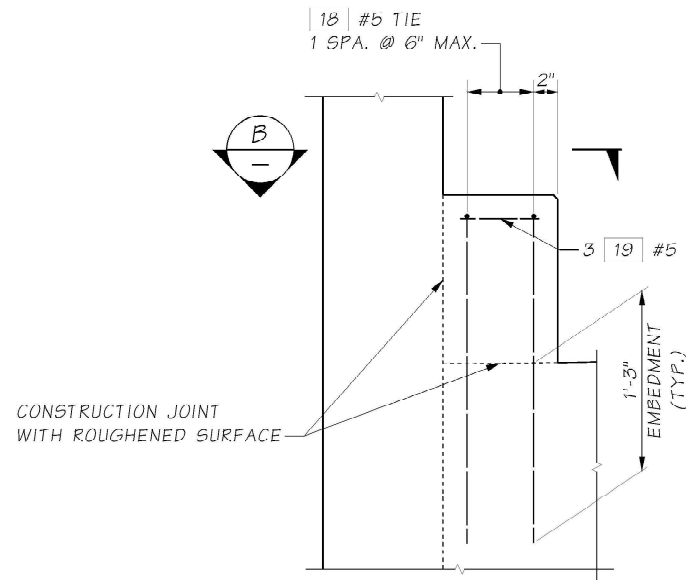
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 1 DETAILS 1 OF 2

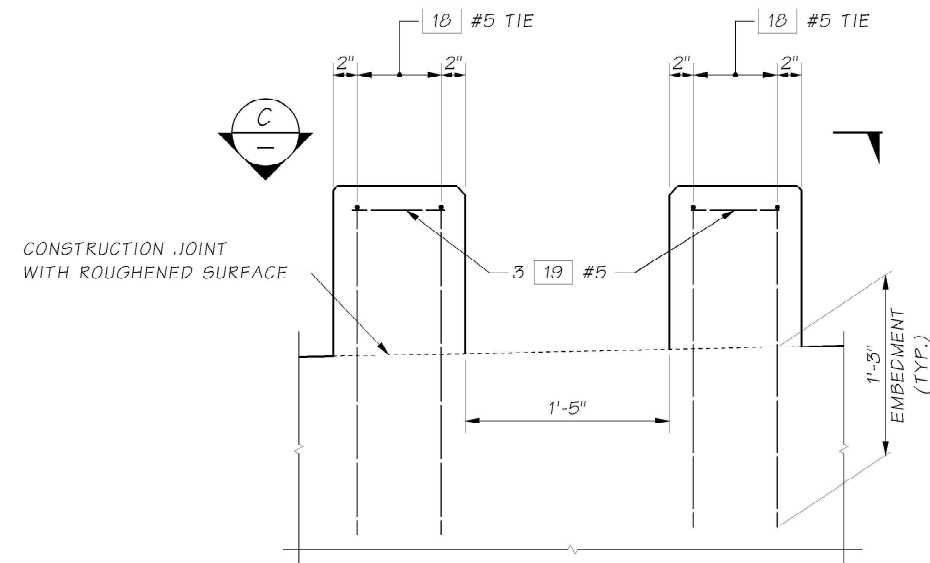
BRIDGE
SHEET
NO.
BR8
SHEET
48
OF
100
SHEETS



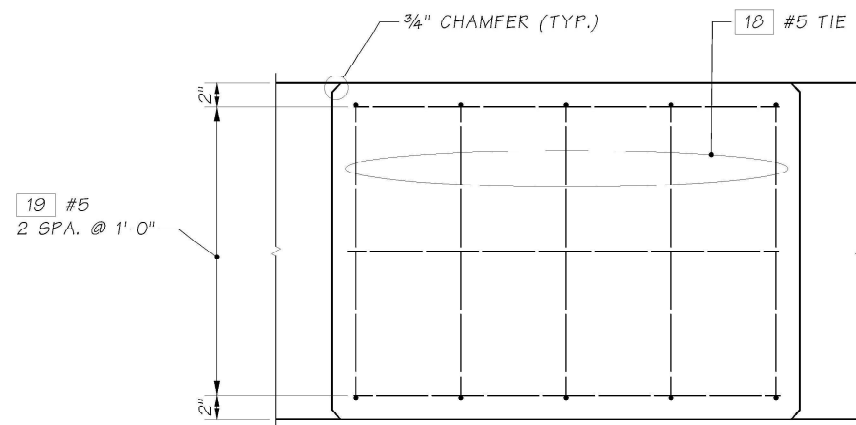
INTERIOR GIRDER STOP



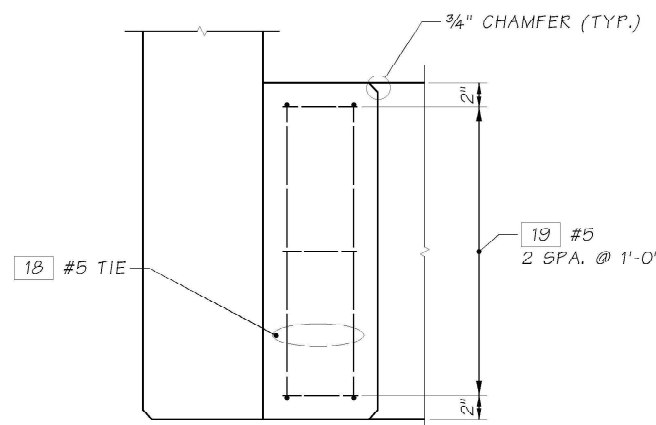
EXTERIOR GIRDER STOP



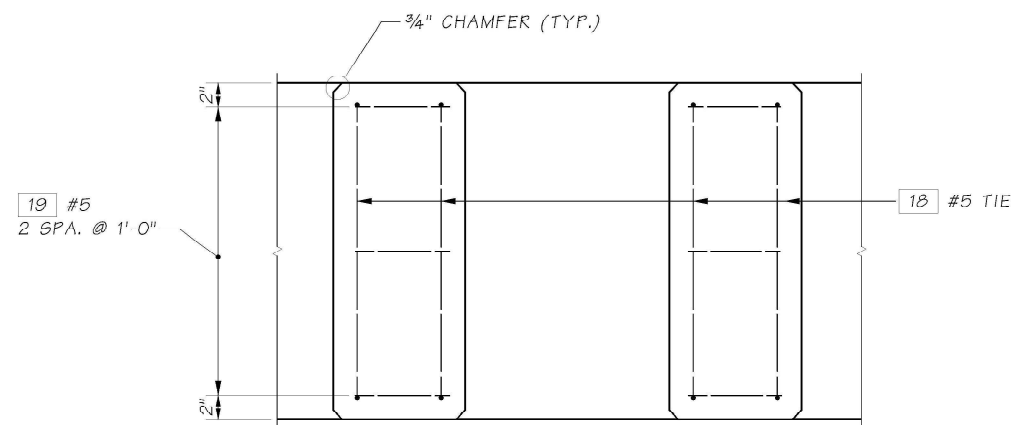
INTERIOR GIRDER STOP
BETWEEN GIR. 'A' & 'B' ONLY



VIEW A



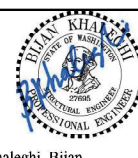
VIEW B



VIEW C

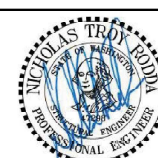
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\009 PIER 1 DET 2.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A	10/19		JOB NUMBER				
Checked By	Reid, Z	02/20		19A031				
Detailed By	Davis, E	10/19		CONTRACT NO.				
Bridge Projects Engr.				DATE	REVISION	BY	APPD	
Prelim. Plan By								
Architect/Specialist								

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Oct 14 2020 3:27 PM cosign

BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:22 AM cosign

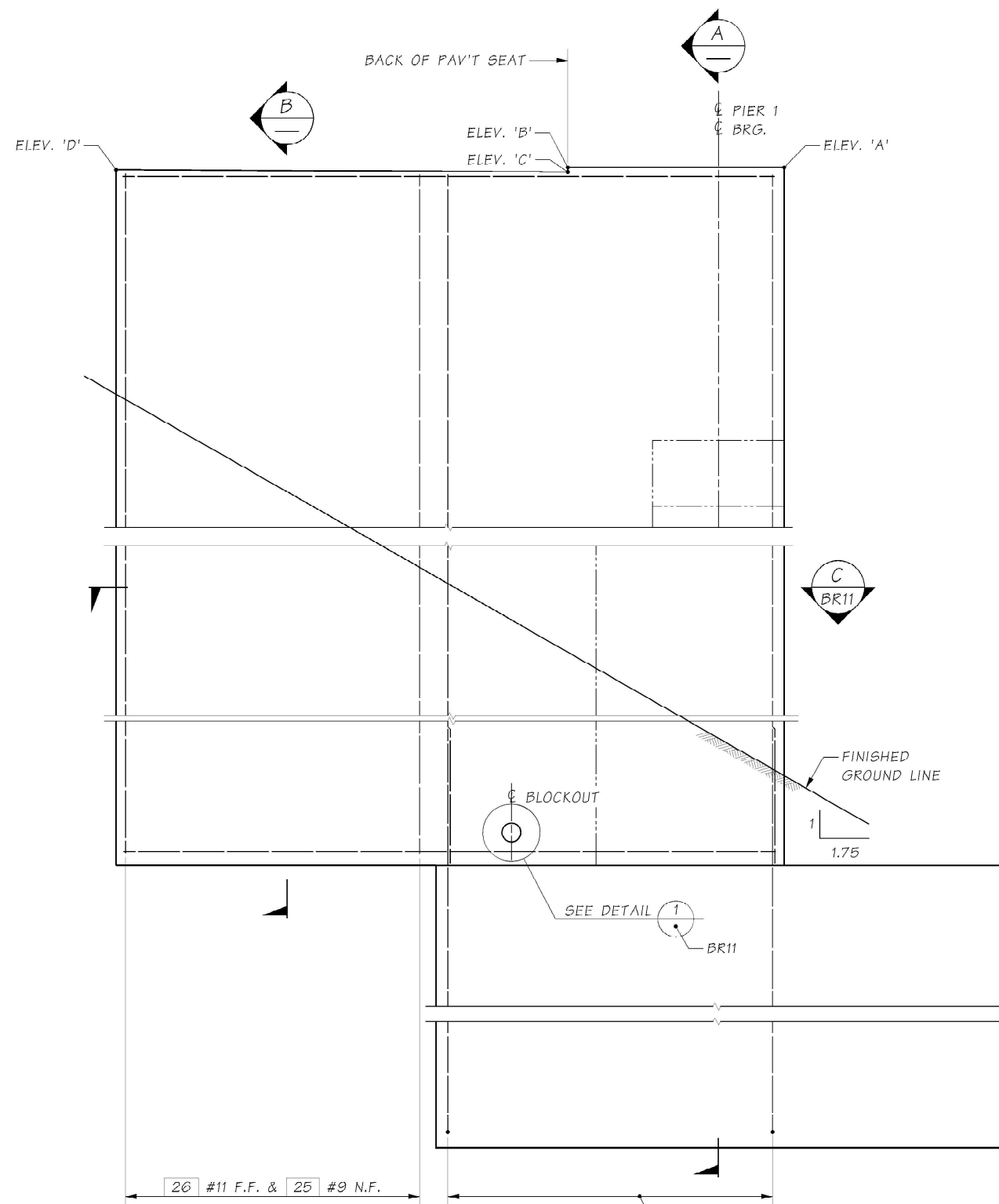


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Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

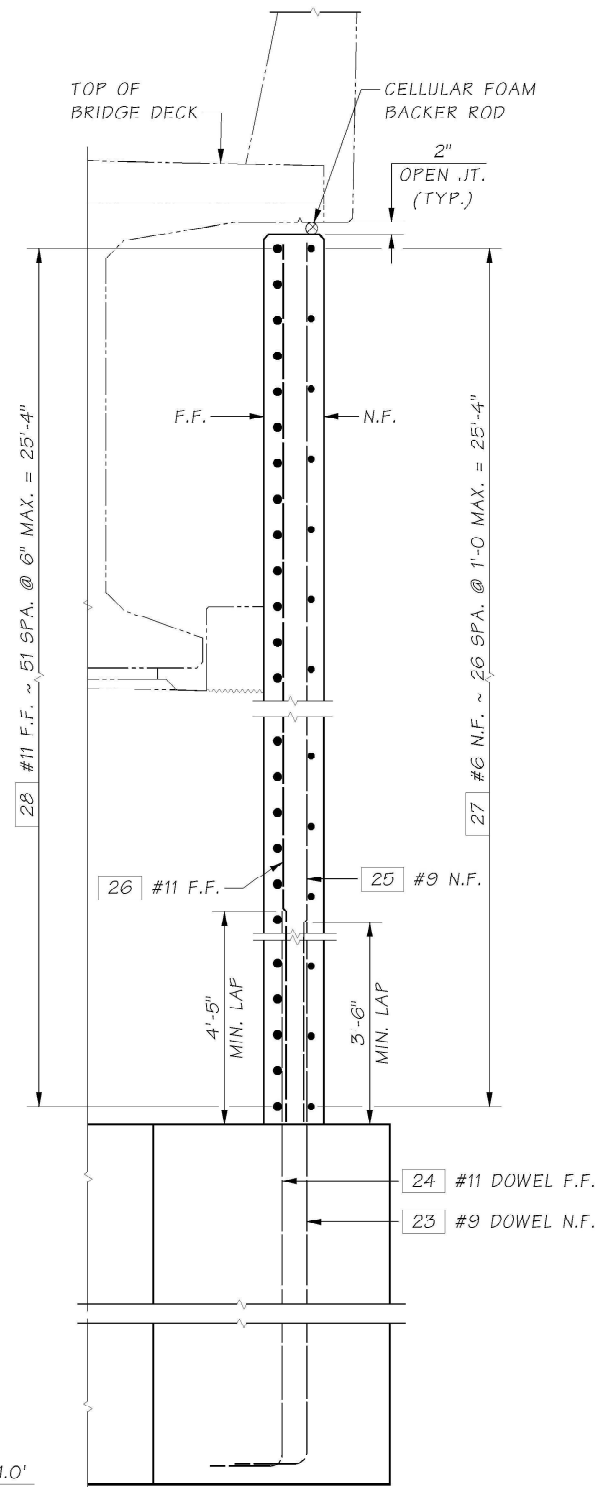
PIER 1 DETAILS 2 OF 2

BRIDGE
SHEET
NO.
BR9
SHEET
49
OF
100
SHEETS

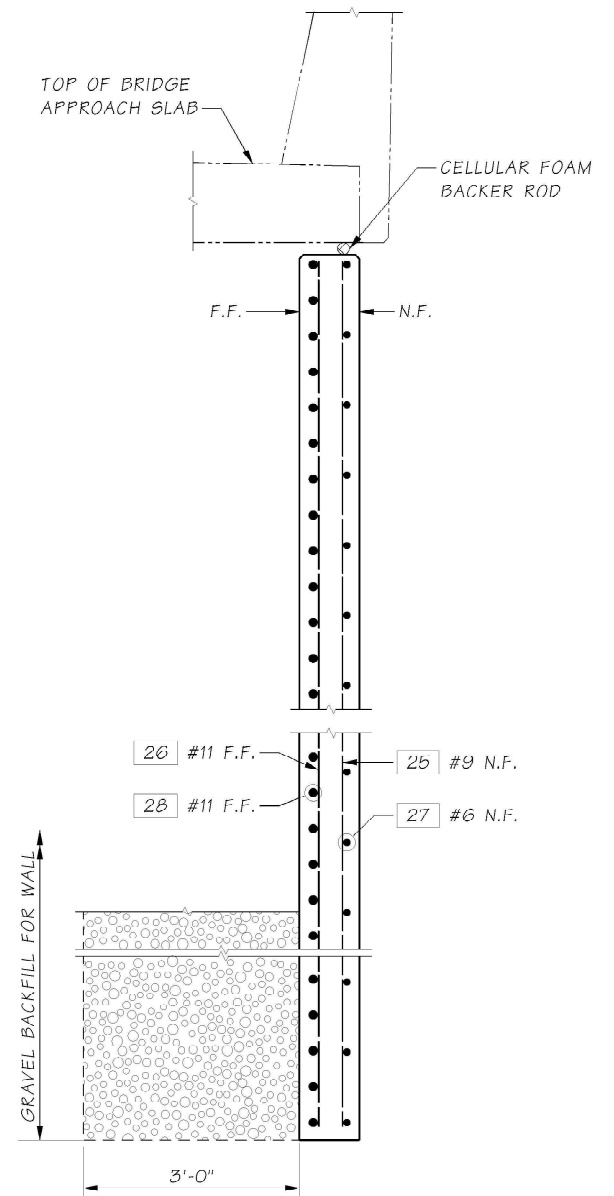


ELEVATION

PIER 1 RIGHT CURTAIN WALL SHOWN.
PIER 1 LEFT SIMILAR BUT OPPOSITE HAND.
FOR REINFORCEMENT NOT SHOWN SEE PIER PLANS.
SHAFT AND PIER WALL NOT SHOWN FOR CLARITY.



SECTION A



SECTION B

LEGEND:

N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE

CURTAIN WALL LOCATION	TOP OF CURTAIN WALL ELEVATIONS (NEAR FACE)			
	'A'	'B'	'C'	'D'
PIER 1 LEFT	492.77	492.78	492.70	492.74
PIER 1 RIGHT	492.77	492.78	492.70	492.74

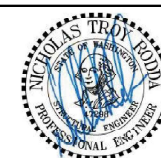
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\010 PIER 1 CRT WALL DET1.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT		10	WASH.			
Designed By	Jaberi, A	10/19	JOB NUMBER		CONTRACT NO.		
Checked By	Reid, Z	02/20	19A031				
Detailed By	Davis, E	10/19					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist		DATE	REVISION	BY	APP'D		

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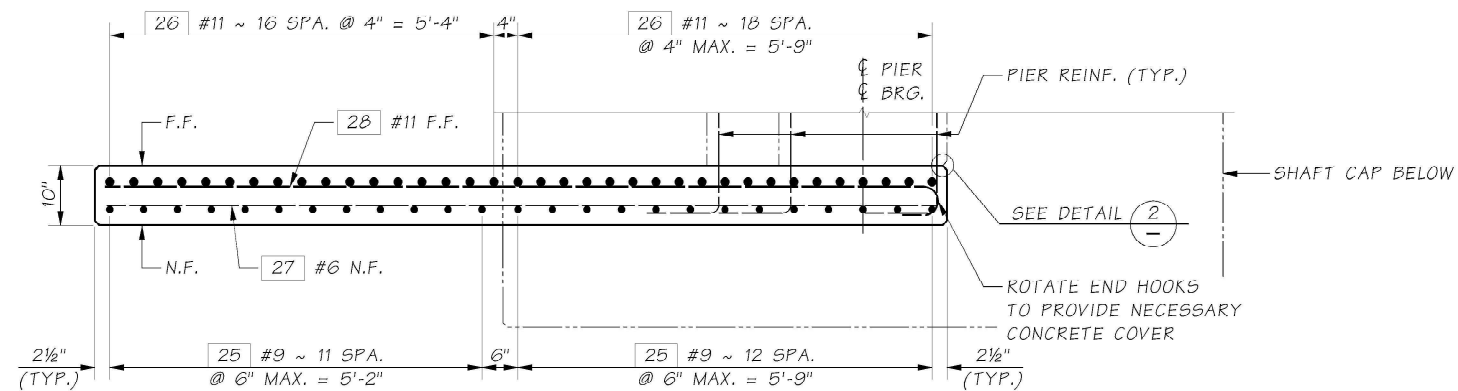


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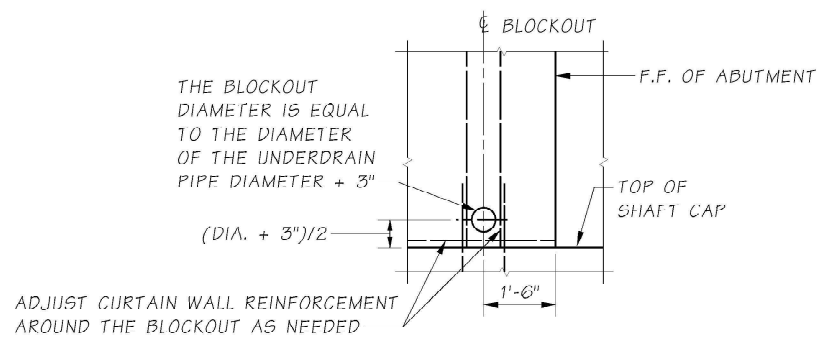
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 1 CURTAIN WALL
DETAILS 1 OF 2

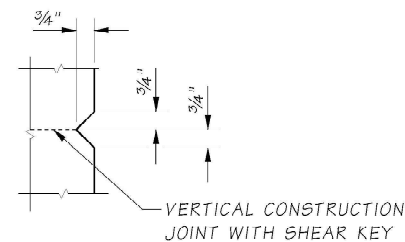
BRIDGE SHEET NO.
BR10
SHEET 50 OF 100
SHEETS



SECTION C
BR10



DETAIL 1
BR10



DETAIL 2

SR 164 FILE NO. SHEET BR11

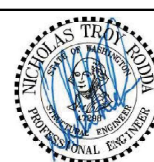
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\011 PIER 1 CRT WALL DET2.wnd
Supervisor	Rodda, NT		
Designed By	Jaberi, A	10/19	
Checked By	Reid, Z	02/20	
Detailed By	Davis, E	10/19	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist			
DATE	REVISION	BY	APPD

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Oct 14 2020 3:28 PM cosign

BRIDGE
AND
STRUCTURES
OFFICE



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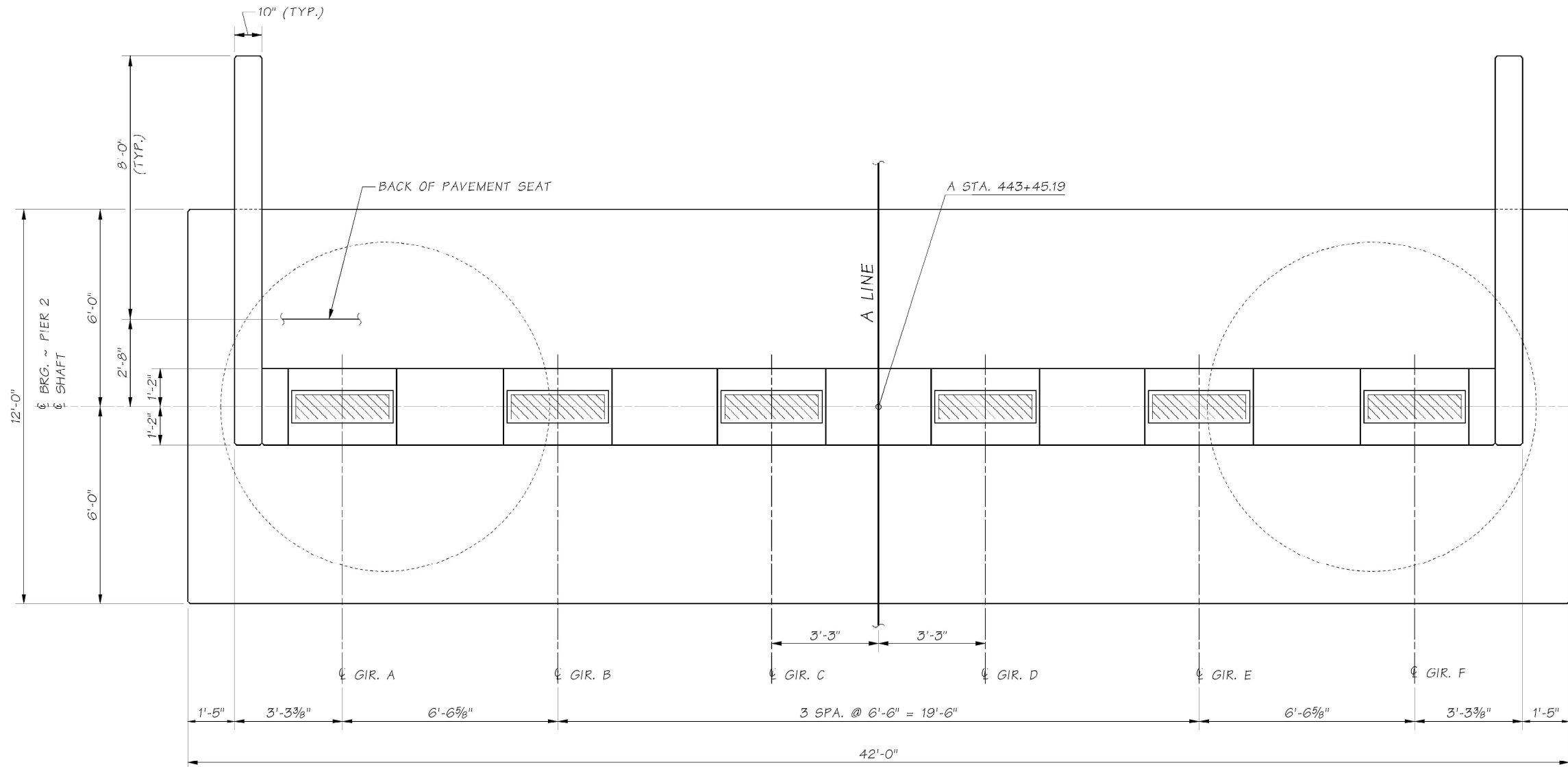


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SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 1 CURTAIN WALL
DETAILS 2 OF 2

BRIDGE
SHEET
NO.
BR11
SHEET
51
OF
100
SHEETS



PLAN

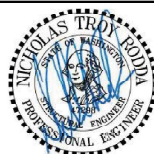
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\012 PIER 2 PLN.wnd				
Supervisor	Rodda, NT			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
Designed By	Jaberi, A	10/19		10	WASH.		
Checked By	Reid, Z	02/20					
Detailed By	Davis, E	10/19					
Bridge Projects Engr.				JOB NUMBER			
Prelim. Plan By				19A031			
Architect/Specialist				CONTRACT NO.			
	DATE	REVISION	BY	APPD			

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BRIDGE
AND
STRUCTURES
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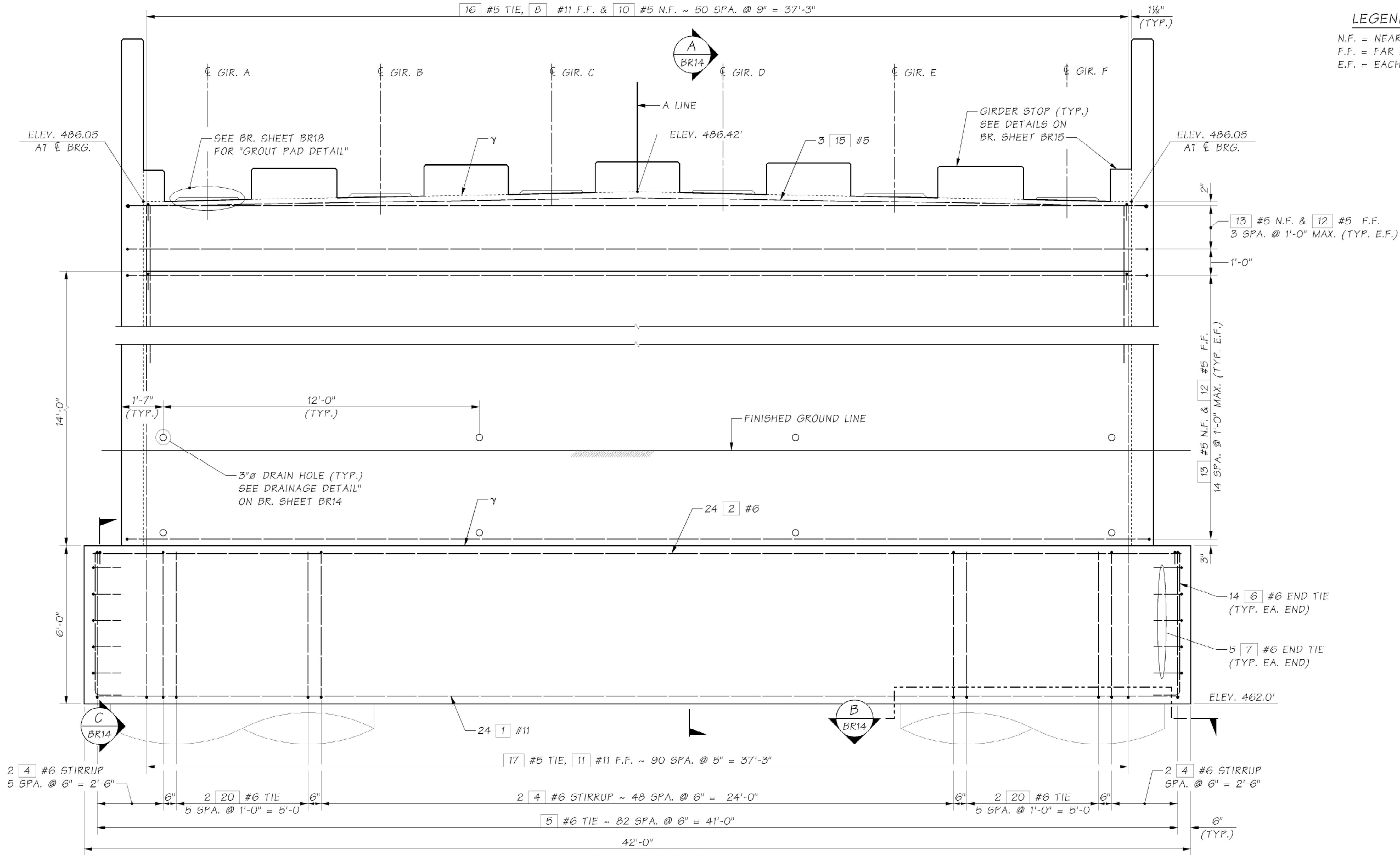
Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 2 PLAN

BRIDGE
SHEET
NO.
BR12
SHEET
52
OF
100
SHEETS

TOP OF GROUT PAD ELEVATIONS						
GIRDER	A	B	C	D	E	F
ELEVATION	486.22	486.35	486.48	486.48	486.35	486.22



LEGEND:
N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE

ELEVATION

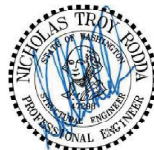
γ - CONSTRUCTION JOINT WITH ROUGHENED SURFACE

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\013 PIER 2 ELEV.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT		10	WASH.			
Designed By	Jaberi, A	10/19	JOB NUMBER 19A031				
Checked By	Reid, Z	02/20	CONTRACT NO.				
Detailed By	Davis, E	10/19					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist		DATE	REVISION	BY	APP'D		



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AND
STRUCTURES
OFFICE



Oct 13 2020 11:23 AM cosign

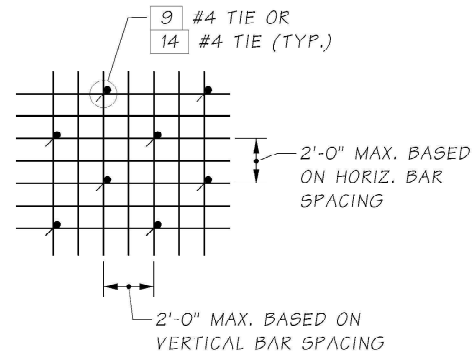
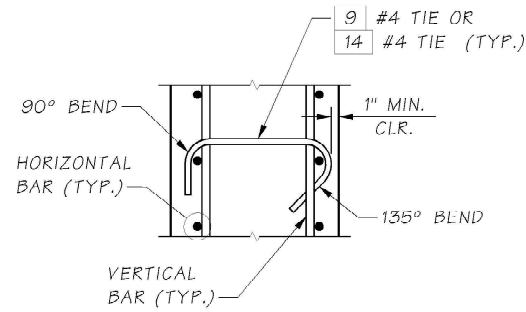
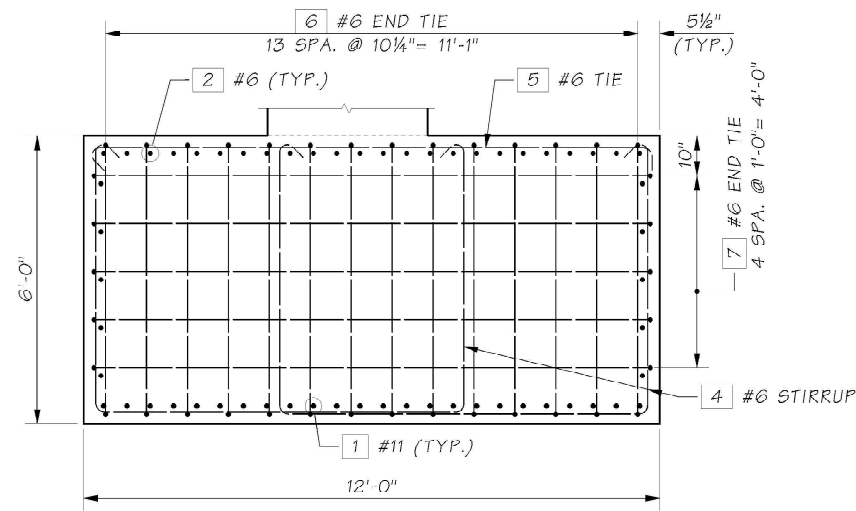
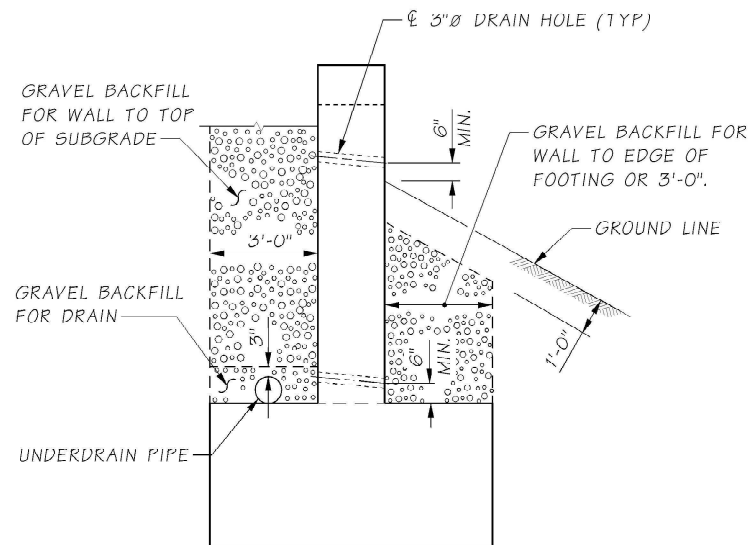
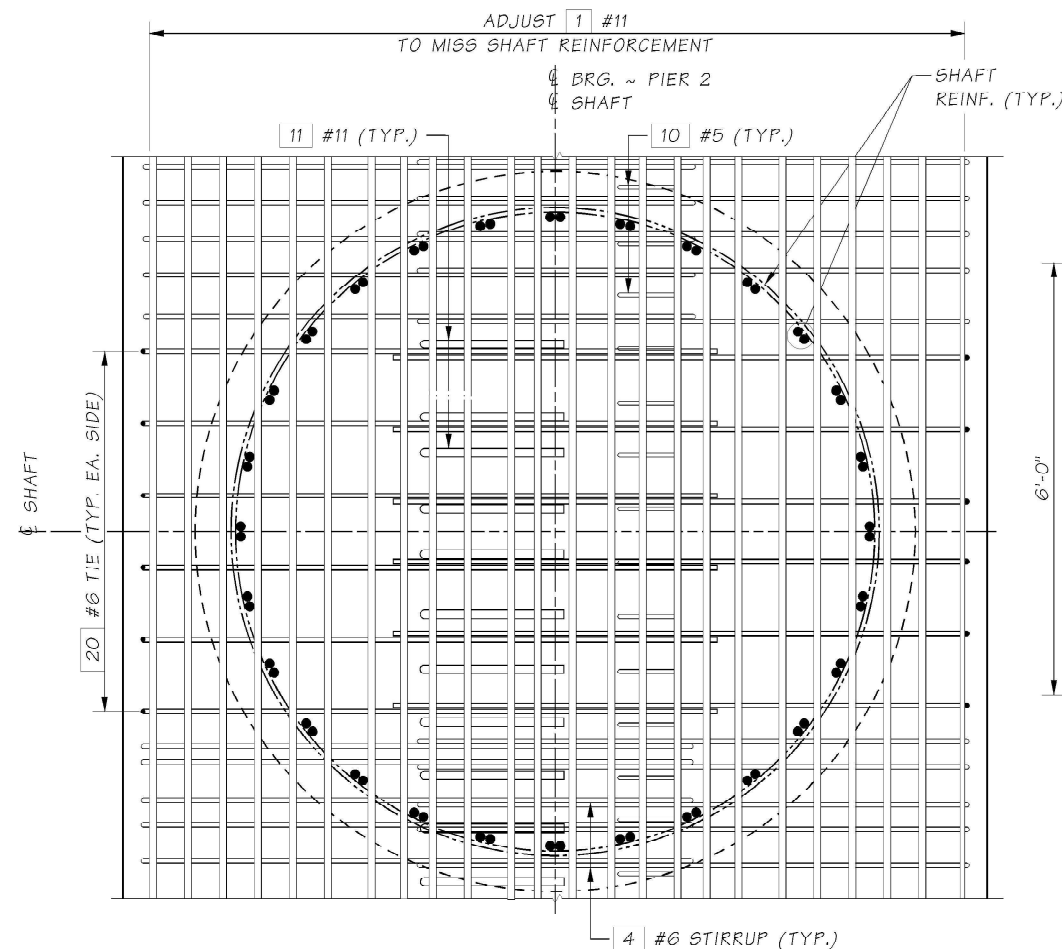
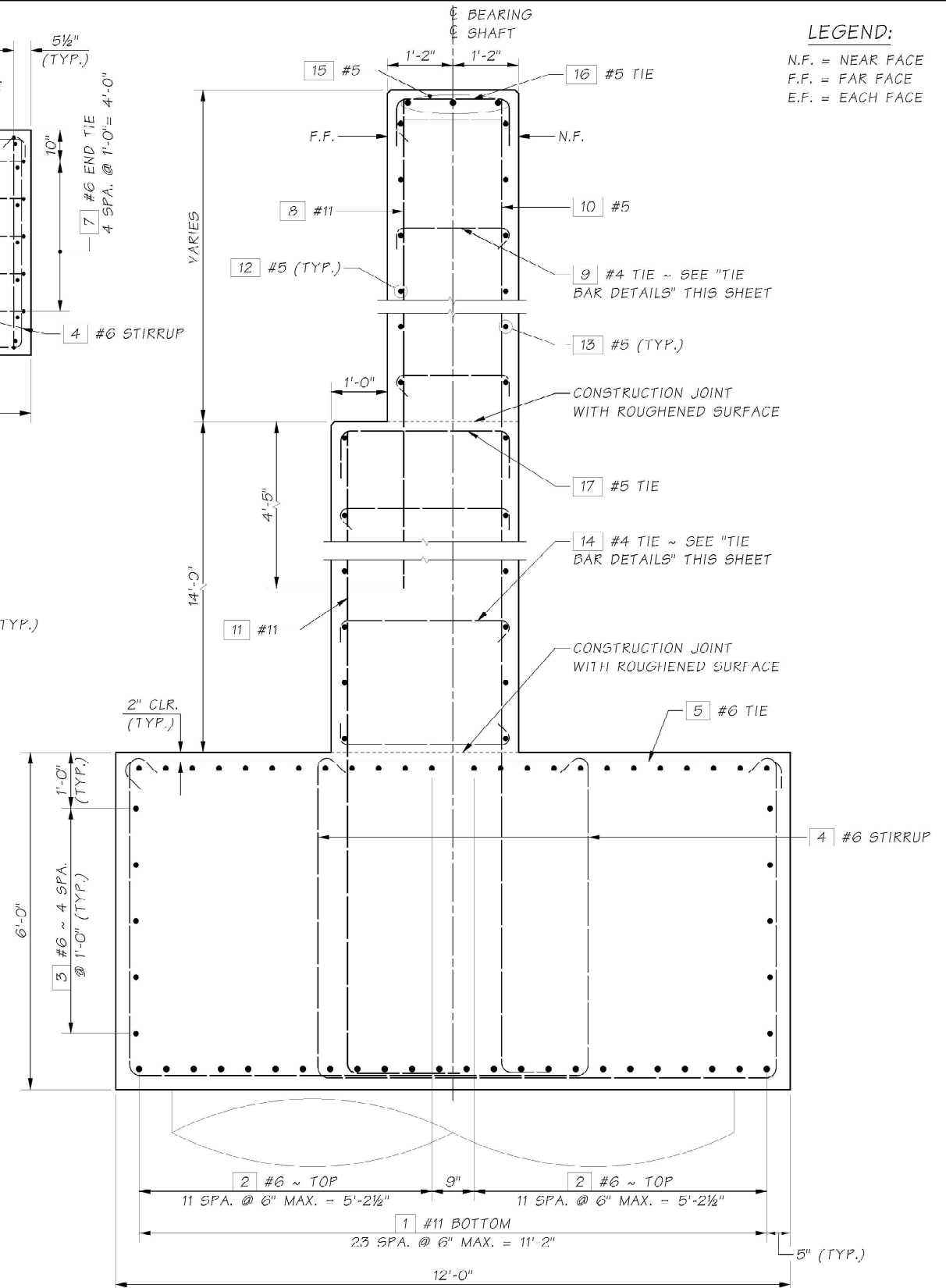


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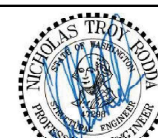
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 2 ELEVATION

BRIDGE
SHEET
NO.
BR13
SHEET
53
OF
100
SHEETS

TIE BAR
SPACING DETAILTIE BAR DETAILSECTION C
BR13LEGEND:N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACEDRAINAGE DETAILSECTION B
BR13SECTION A
BR13

Bridge Design Engr.	Khaleghi, B	M:\w-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\014 PIER 2 DET 1.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT		10	WASH.			
Designed By	Jaberi, A	10/19					
Checked By	Reid, Z	02/20					
Detailed By	Davis, E	10/19					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist							
DATE	REVISION	BY	APP'D				

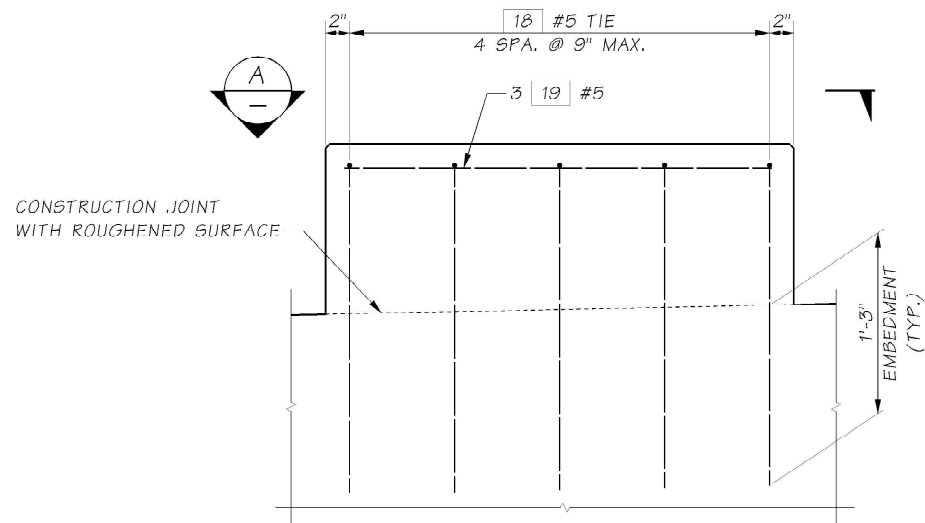
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AND
STRUCTURES
OFFICE

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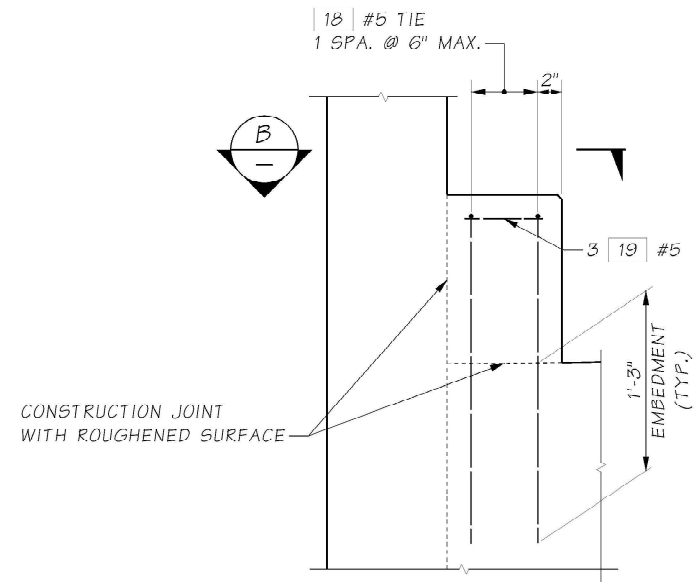
Washington State
Department of TransportationSR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 2 DETAILS 1 OF 2

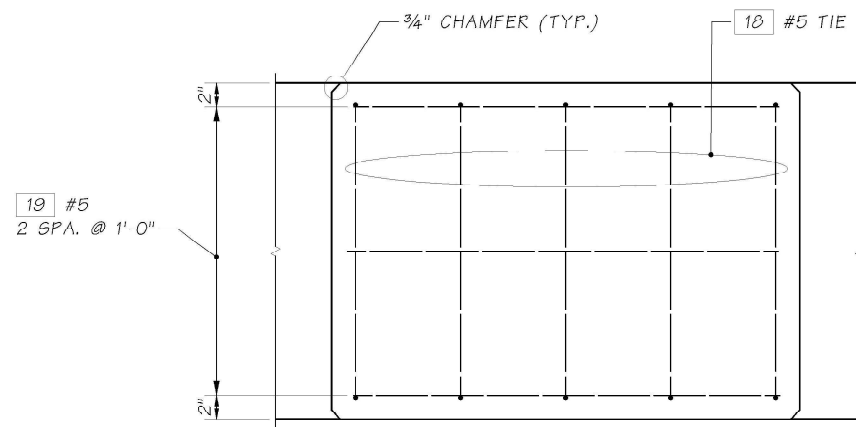
BRIDGE
SHEET
NO.
BR14
SHEET
54
OF
100
SHEETS



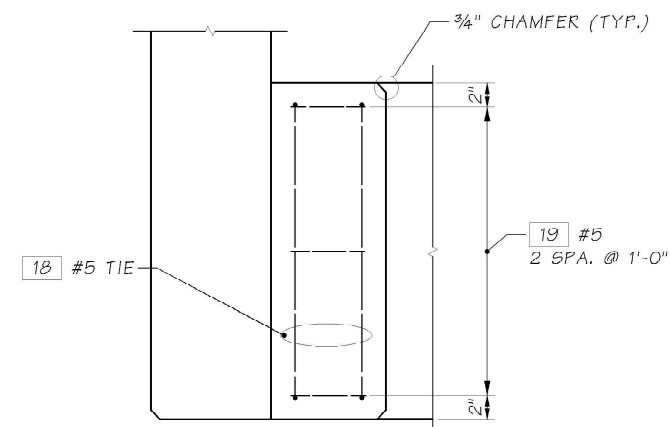
INTERIOR GIRDER STOP



EXTERIOR GIRDER STOP



VIEW A

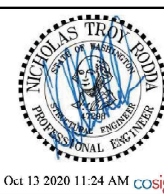


VIEW B

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\015 PIER 2 DET2.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A	10/19		JOB NUMBER				
Checked By	Reid, Z	02/20		19A031				
Detailed By	Davis, E	10/19		CONTRACT NO.				
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APPD			



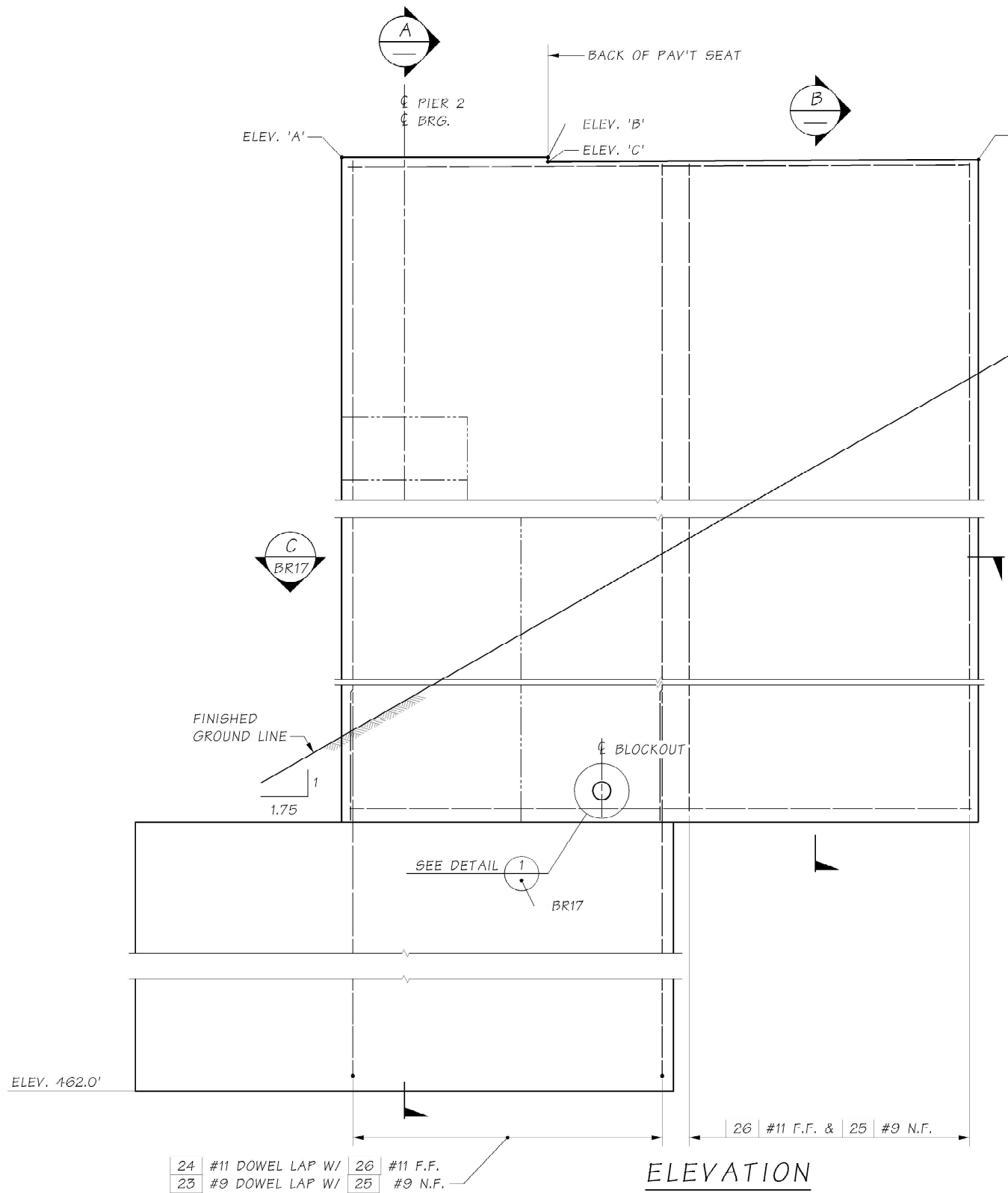
BRIDGE
AND
STRUCTURES
OFFICE



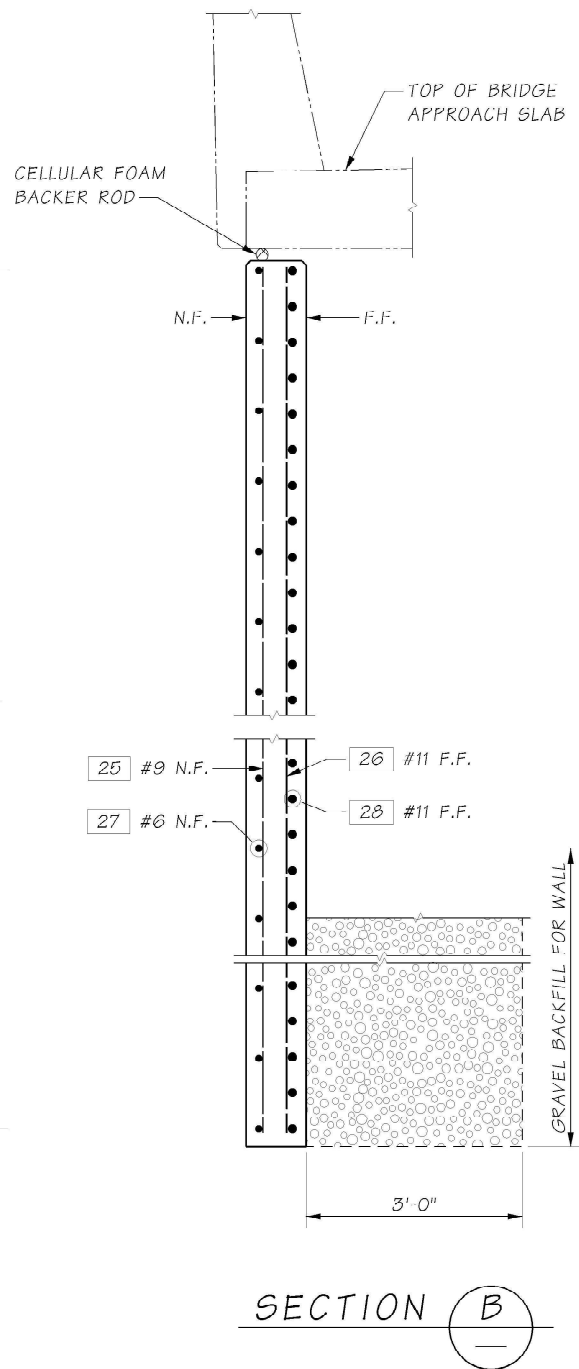
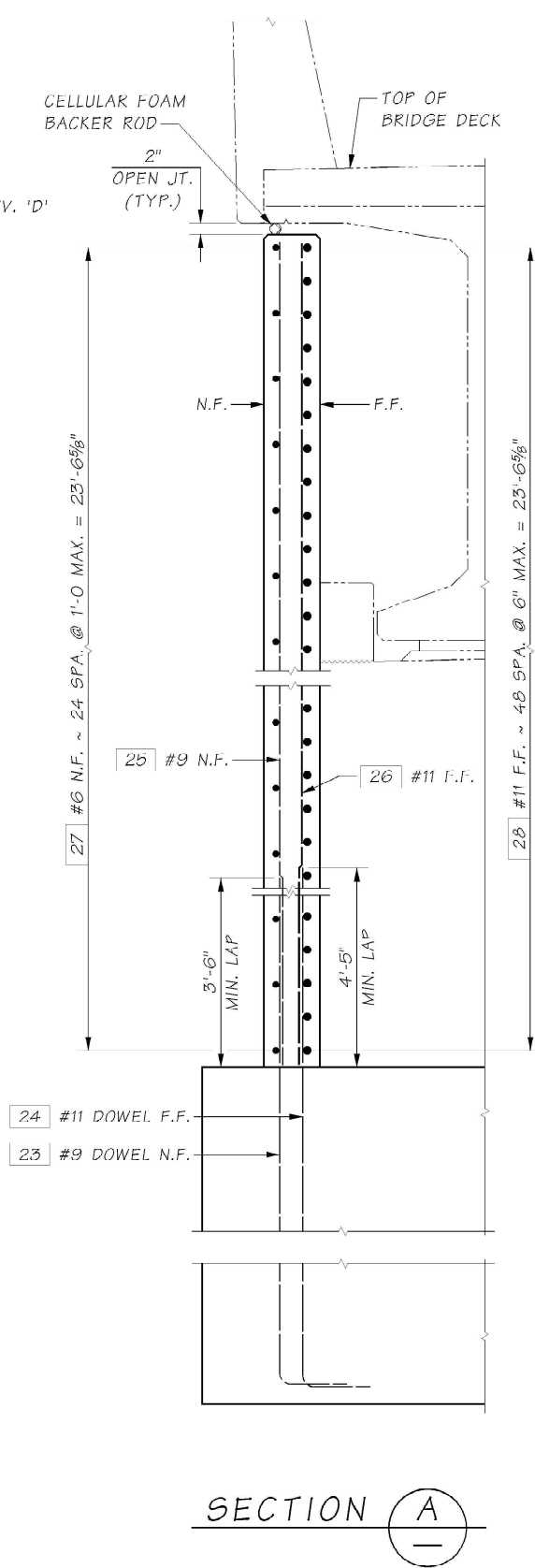
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

PIER 2 DETAILS 2 OF 2

BRIDGE
SHEET
NO.
BR15
SHEET
55
OF
100
SHEETS



PIER 2 RIGHT CURTAIN WALL SHOWN.
PIER 2 LEFT SIMILAR BUT OPPOSITE HAND.
FOR REINFORCEMENT NOT SHOWN SEE PIER PLANS.
SHAFT AND PIER WALL NOT SHOWN FOR CLARITY.



LEGEND:

N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE

CURTAIN WALL LOCATION	TOP OF CURTAIN WALL ELEVATIONS (NEAR FACE)			
	'A'	'B'	'C'	'D'
PIER 2 LEFT	492.01	491.99	491.91	491.87
PIER 2 RIGHT	492.01	491.99	491.91	491.87

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\016 PIER 2 CURT WALL DET1.wnd
Supervisor	Rodda, NT		
Designed By	Jaberi, A	10/19	
Checked By	Reid, Z	02/20	
Detailed By	Davis, E	10/19	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APP'D

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Washington State Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

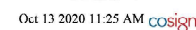
PIER 2 CURTAIN WALL
DETAILS 1 OF 2

BRIDGE SHEET NO.
BR16
SHEET 56 OF 100 SHEETS



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Oct 14 2020 3:30 PM

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AND
STRUCTURES
OFFICE



PIER 2 CURTAIN WALL
DETAILS 2 OF 2

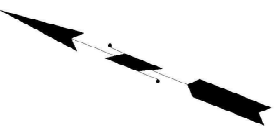
BRIDGE
SHEET
NO.
R17

SHEET
57
OF
100
SHEETS

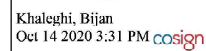


1. GIRDER STOPS SHALL BE CONSTRUCTED AFTER GIRDER PLACEMENT.
2. THE ELASTOMERIC GIRDER STOP PADS SHALL BE BONDED TO THE GIRDER STOPS WITH AN APPROVED ADHESIVE.

BEARING DESIGN TABLE AASHTO METHOD B DESIGN	
SERVICE - I LIMIT STATE	
DEAD LOAD (DL) REACTION	225 KIPS
LIVE LOAD REACTION (W/O IMPACT)	110 KIPS
UNLOADED HEIGHT	1.72 IN
LOADED HEIGHT (DL)	1.70 IN
SHEAR MODULUS AT 73° F	165 PSI



BEARING OF PIERS ARE NORMAL TO A LINE



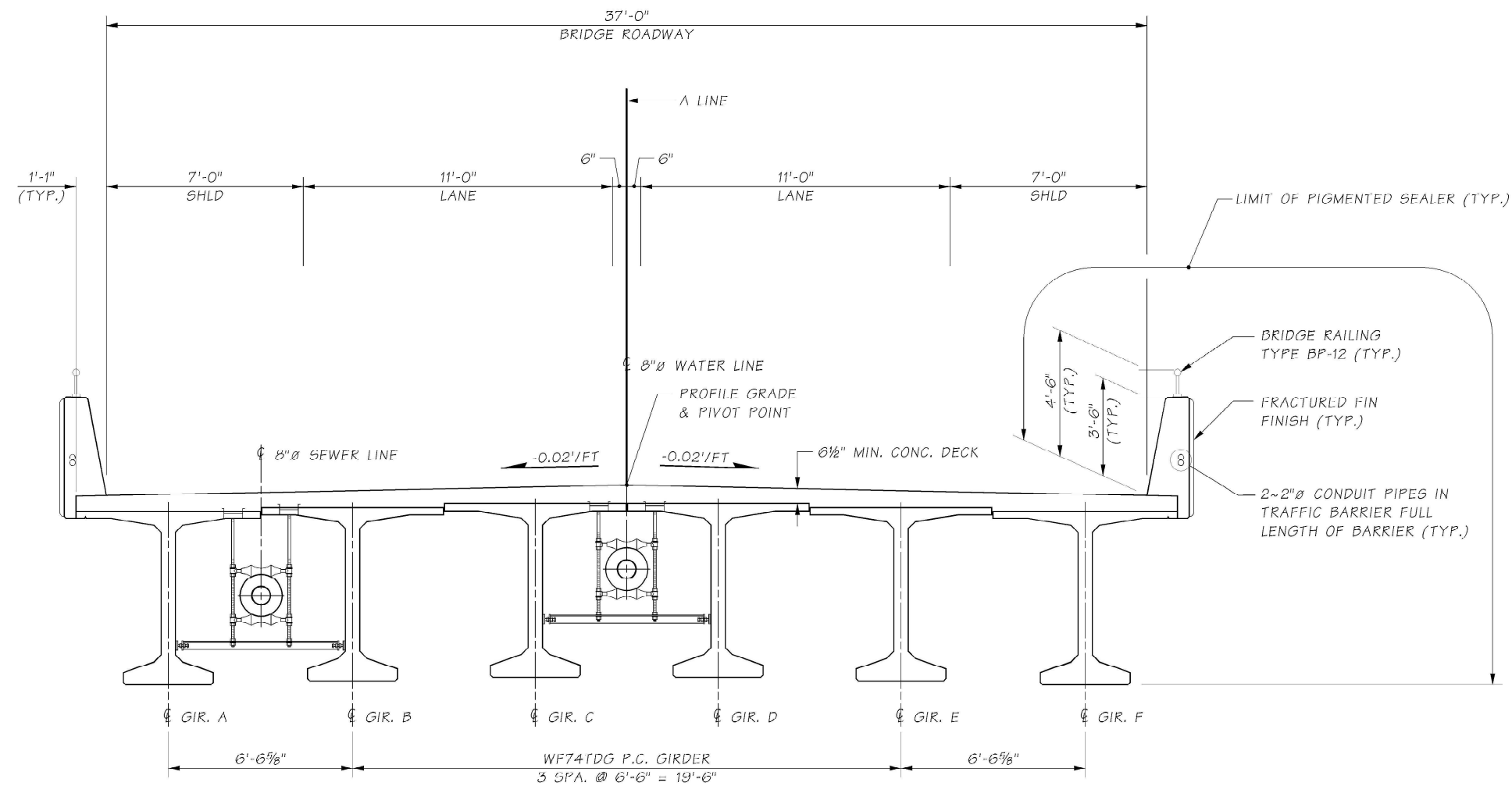
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FRAMING PLAN

SHEET
59
OF
100
BUDGETS

SR 164 FILE NO. SHEET BR20



TYPICAL SECTION
SHOWN NEAR MID SPAN

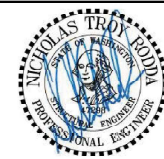
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\020 TYP SEC.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A	10/19						
Checked By	Rodda, NT	01/20						
Detailed By	Davis, E	10/19						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APPD			

Tue Oct 19 10:48:02 2020



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BRIDGE
AND
STRUCTURES
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Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

TYPICAL SECTION

BRIDGE
SHEET
NO.
BR20
SHEET
60
OF
100
SHEETS

GIRDER SCHEDULE

GIRDER	GIRDER SERIES	TOP FLANGE WIDTH W	PLAN LENGTH (ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	INT. DIAPHRAGM TYPE (FULL OR PARTIAL)	GIRDER END DETAILS						MIN. CONC. COMP. STRENGTH		NUMBER OF STRANDS (SEE GIRDER NOTE 2)			LOCATION OF C.G. STRANDS			STRAIGHT STRANDS TO EXTEND				"A" DIVISION AT E BEARINGS	DECK SCREED CAMBER C	MIDSPAN VERTICAL DEFLECTION D		REINFORCEMENT DETAILS						SHIPPING AND HANDLING DETAILS						
					END 1 TYPE	END 2 TYPE	Ld	θ1	θ2	P1	P2	@ 28-DAYS F'CI (KSI)	@ RELEASE F'CI (KSI)	STRAIGHT	HARPED	TEMPORARY	E	Fℓ	Fo	END 1		END 2			LOWER BOUND @ 40 DAYS	UPPER BOUND @ 120 DAYS	SPACING	LENGTH	SPACING	LENGTH	SPACING	LENGTH	MAXIMUM MIDSPAN VERTICAL DEFLECTION AT SHIPPING	L	L1	L2	Kθ MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIPS-IN/RAD)	WCC MINIMUM SHIPPING SUPPORT CNTR.-TO-CNTR. WHEEL SPACING	
																				STRANDS	EXTENSION LENGTH	STRANDS																	EXTENSION LENGTH
A & F	WF74TDG	6'-7"	165'-9"	-	A	A	-	90°	90°	1'-6½"	1'-6½"	8.4	6.7	38	18	8	3½"	5"	1'-0"	③ TO ⑥	-	③ TO ⑥	-	9"	2¾"	2⅜"	5¼"	2½"	2'-6"	6"	12'-0"	9"	4'-6"	6½"	9'-0"	15'-0"	25'-0"	60,000	6'-0"
B - E	WF74TDG	6'-6"	165'-9"	-	A	A	-	90°	90°	1'-6½"	1'-6½"	8.4	6.7	38	18	8	3½"	5"	1'-0"	③ TO ⑥	-	③ TO ⑥	-	9"	2¾"	2¼"	5⅝"	2½"	2'-6"	6"	12'-0"	9"	4'-6"	6½"	9'-0"	15'-0"	25'-0"	60,000	6'-0"

GIRDER NOTES

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.94 KIPS PER STRAND).

Bridge Design Engr.	Khaleghi, B		M:\W-Team\SR 164	PUSSYFOOT CREEK\SR 164	PUSSYFOOT	CR\window files\021 GIR DET1.wnd																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</
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Khaleghi, Bijan
Oct 14 2020 3:32 PM cosign

BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:26 AM cosign



Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

WF74DG GIRDER
DETAILS 1 OF 5

BRIDGE
SHEET
NO.

BR21

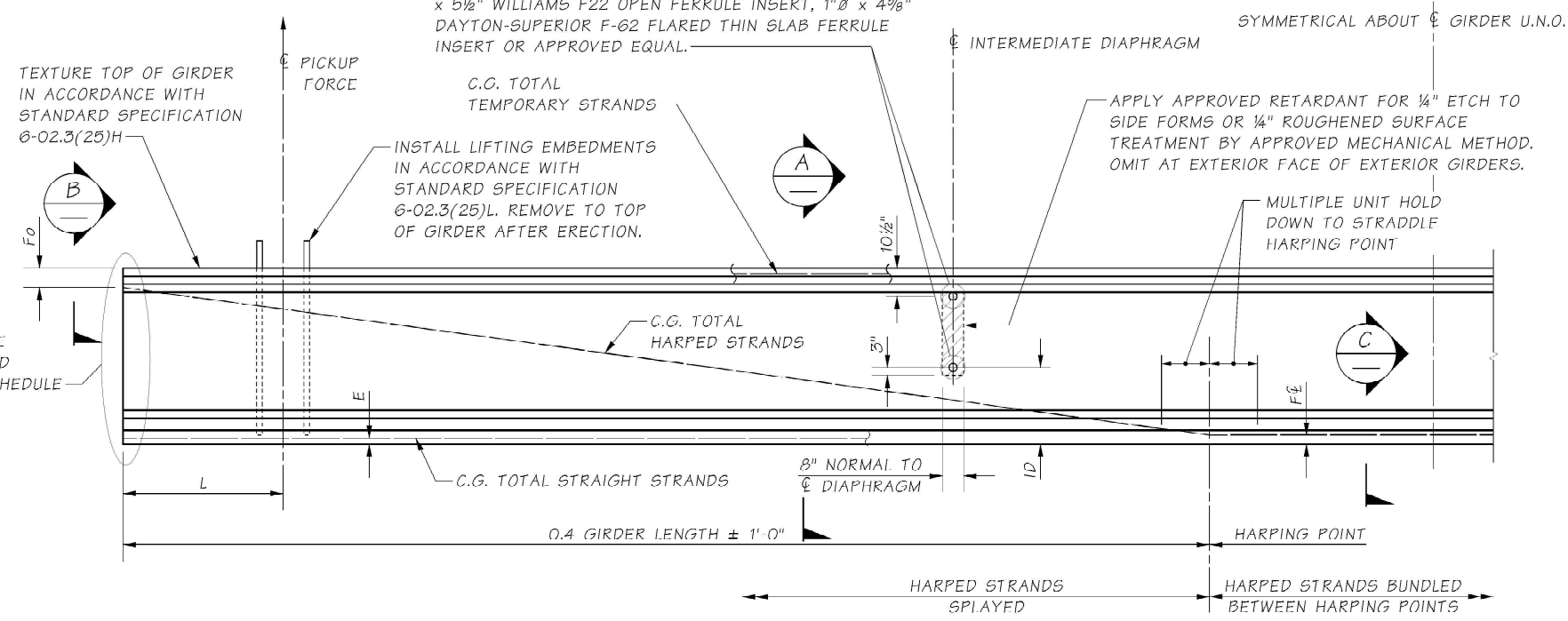
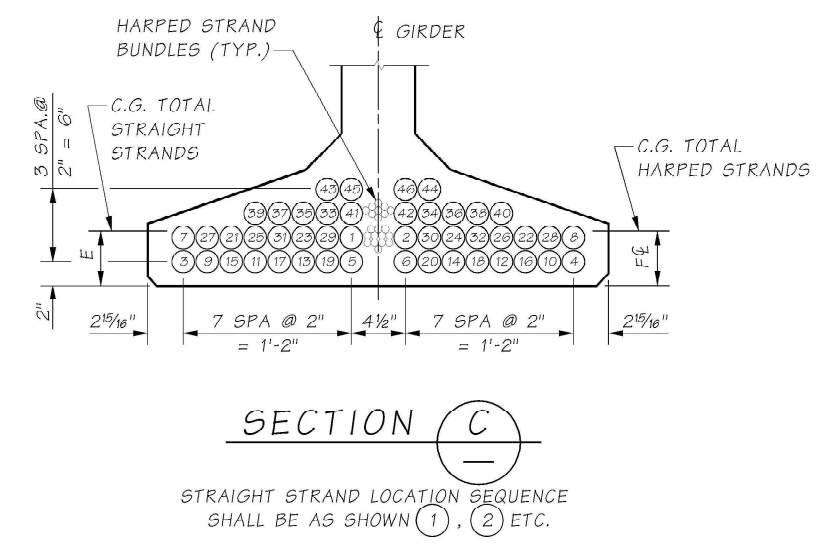
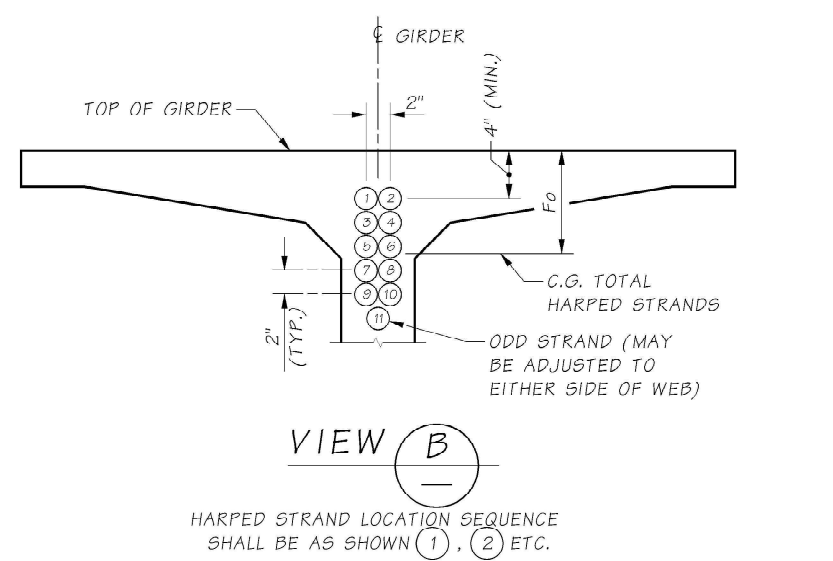
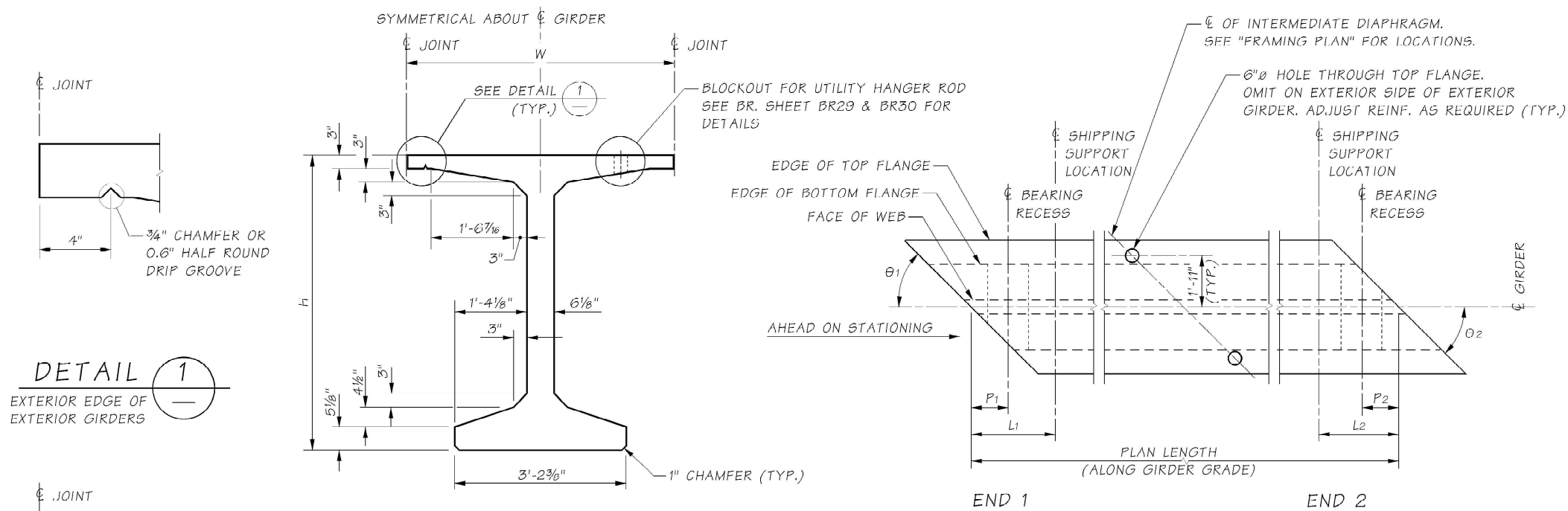
SHEET

61

OF

100

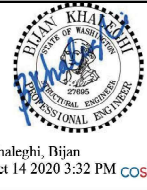
SUBTOTS



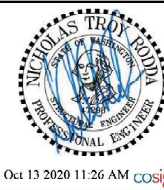
GIRDER ELEVATION

GIRDER SERIES	H GIRDER HEIGHT	ID PARTIAL DEPTH INT. DIAPHRAGM	ID FULL DEPTH INT. DIAPHRAGM
WF36TDG	3'-0"	1'-2 1/8"	1'-2 1/8"
WF42TDG	3'-6"	1'-6"	1'-2 1/8"
WF50TDG	4'-2"	1'-9 1/2"	1'-2 1/8"
WF58TDG	4'-10"	2'-3"	1'-2 1/8"
WF66TDG	5'-6"	2'-4 3/4"	1'-2 1/8"
WF74TDG	6'-2"	2'-8"	1'-2 1/8"
WF83TDG	6'-10 3/8"	2'-1 3/8"	1'-2 1/8"
WF95TDG	7'-10 1/2"	3'-1 1/2"	1'-2 1/8"
WF100TDG	8'-4"	2'-8"	1'-2 1/8"

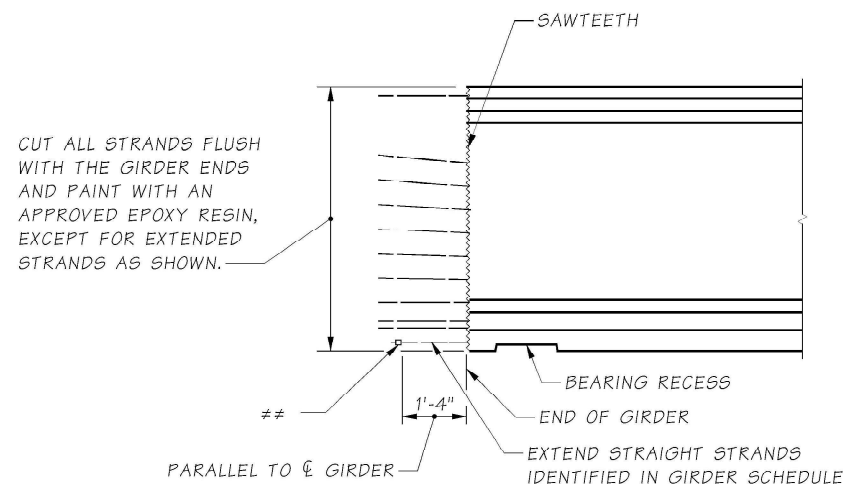
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR\window files\022 GIR DET2.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT		10	WASH.			
Designed By	Jaberi, A	10/19	JOB NUMBER 19A031		CONTRACT NO.		
Checked By	Rodda, NT	01/20					
Detailed By	Davis, E	10/19					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist		DATE	REVISION	BY	APPD		



BRIDGE AND STRUCTURES OFFICE

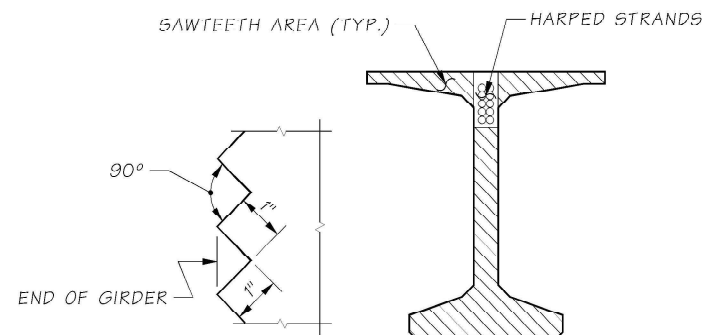


SR 164 PUSSYFOOT CREEK FISH PASSAGE NEW BRIDGE NO. 164/25	BRIDGE SHEET NO. BR22
WF74TDG GIRDER DETAILS 2 OF 5	SHEET 62 OF 100 SHEETS



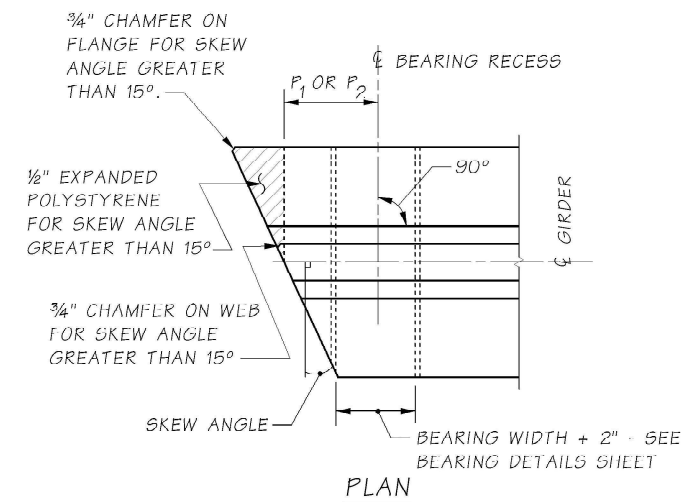
END TYPE A

1 1/16"Ø MIN. STRAND CHUCK OR ASTM A108 2 3/4"Ø x 1 1/8" STRAND ANCHOR. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.



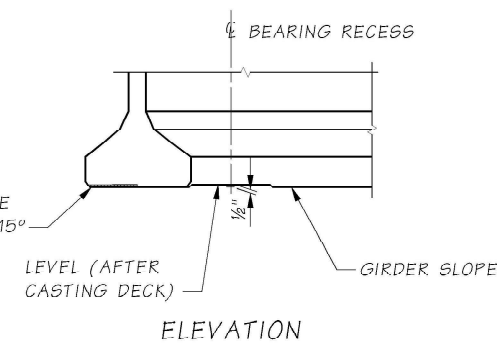
SAWTEETH DETAIL

SAWTEETH SHALL BE FULL WIDTH OVER AREA SHOWN



BEARING RECESS AND BOTTOM FLANGE SPALL PROTECTION DETAIL

BEARING RECESS FORMS SHALL BE CONSTRUCTED AND FASTENED TO AVOID GIRDER DAMAGE DURING STRAND RELEASE.

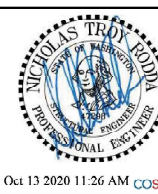


Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR\window files\023 GIR DET3.wnd	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				
Designed By	Jaberi, A	10/19		REGION NO.	STATE
Checked By	Rodda, NT	01/20		10	WASH.
Detailed By	Davis, E	10/19			
Bridge Projects Engr.				JOB NUMBER	
Prelim. Plan By				19A031	
Architect/Specialist				CONTRACT NO.	
	DATE	REVISION	BY	APP'D	



Khaleghi, Bijan
Oct 14 2020 3:32 PM cosign

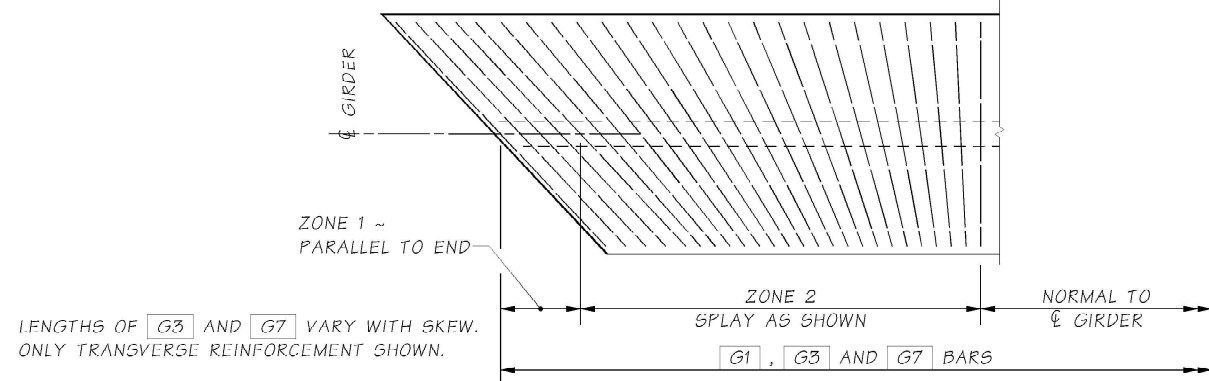
BRIDGE
AND
STRUCTURES
OFFICE



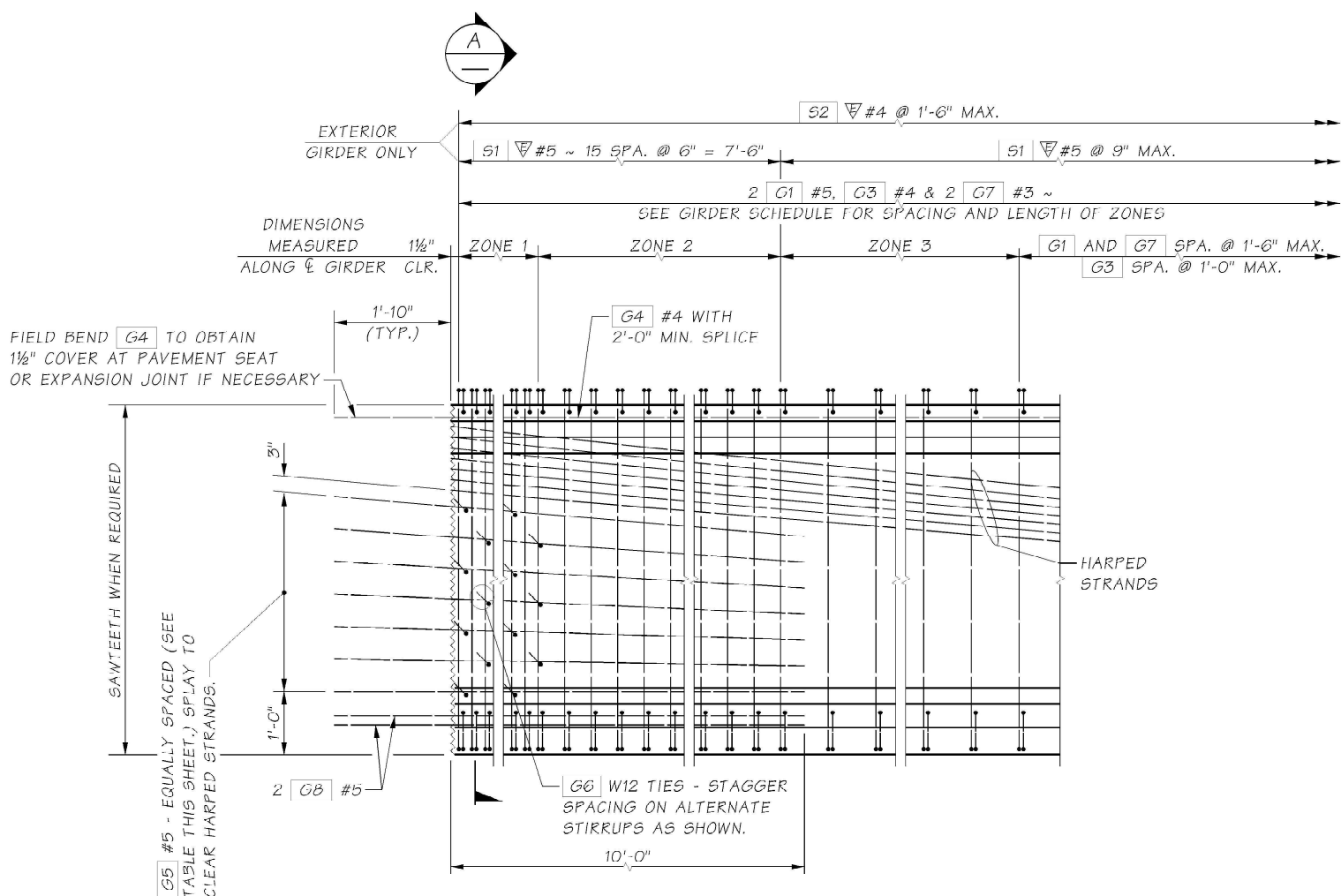
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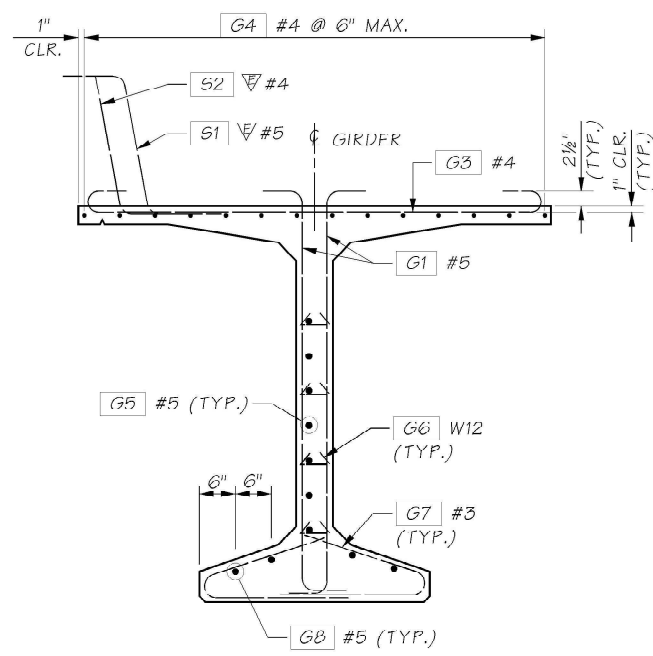
SR 164 PUSSYFOOT CREEK FISH PASSAGE NEW BRIDGE NO. 164/25	BRIDGE SHEET NO. BR23
WF74TDG GIRDER DETAILS 3 OF 5	SHEET 63 OF 100 SHEETS



PLAN
TRANSVERSE REINFORCING
AT SKEWED ENDS



REINFORCEMENT END ELEVATION
STRAIGHT AND TEMPORARY STRANDS NOT SHOWN FOR CLARITY.
WF66TDG SHOWN, OTHERS SIMILAR



SECTION A
STRANDS NOT SHOWN

BENDING DIAGRAM

(ALL DIMENSIONS ARE OUT TO OUT)

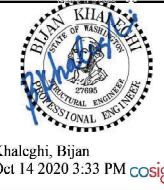
α - VARIES FOR SKEWED ENDS.
 δ - #3 OR #4 MAY BE SUBSTITUTED. FIELD BENDING IS OPTIONAL.
 β - PAIRS OF G7 BARS, OR G9 AND G10 BARS, MAY BE USED INTERCHANGEABLY AS BOTTOM FLANGE TIES.
 ψ - 1 G2 MAY BE SUBSTITUTED FOR 2 G1 WITHIN ZONE 1.

GIRDER REINFORCEMENT NOTES

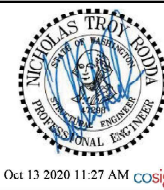
1. DEFORMED WELDED WIRE REINFORCEMENT MAY BE SUBSTITUTED FOR MILD REINFORCEMENT IN ACCORDANCE WITH STANDARD SPECIFICATION 6-02.3(25)A.

GIRDER SERIES	NO. OF BARS
WF36TDG	3
WF42TDG	4
WF50TDG	5
WF58TDG	6
WF66TDG	7
WF74TDG	7
WF83TDG	8
WF95TDG	9
WF100TDG	10

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\024 CIR DET4.wnd	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			
Designed By	Jaberi, A	10/19	10	WASH.
Checked By	Rodda, NT	01/20		
Detailed By	Davis, E	10/19		
Bridge Projects Engr.				
Prelim. Plan By				
Architect/Specialist				
DATE	REVISION	BY	APP'D	



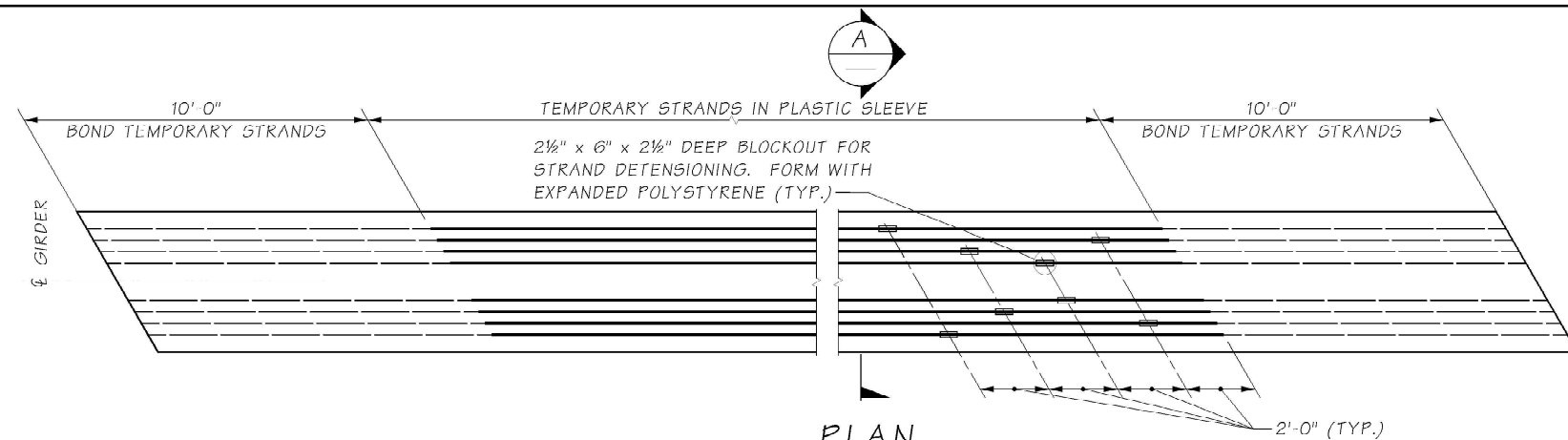
BRIDGE AND STRUCTURES OFFICE



SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

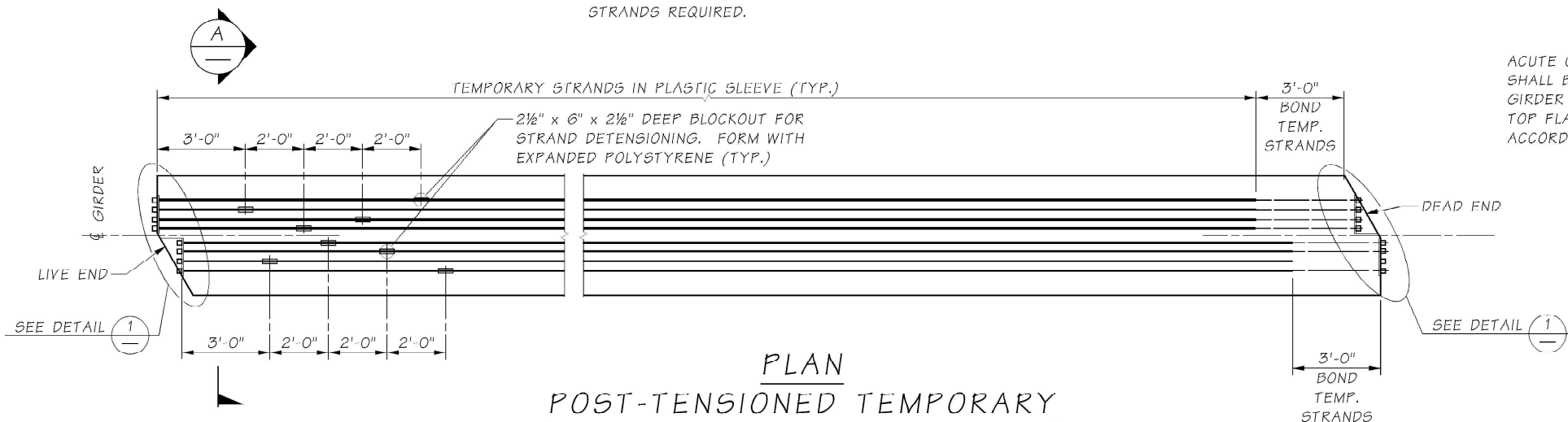
WF74TDG GIRDER
DETAILS 4 OF 5

BRIDGE SHEET NO. BR24
SHEET 64 OF 100 SHEETS



PLAN
PRETENSIONED TEMPORARY
TOP STRANDS ALTERNATE

SEE GIRDER SCHEDULE FOR NUMBER OF TEMPORARY STRANDS REQUIRED.

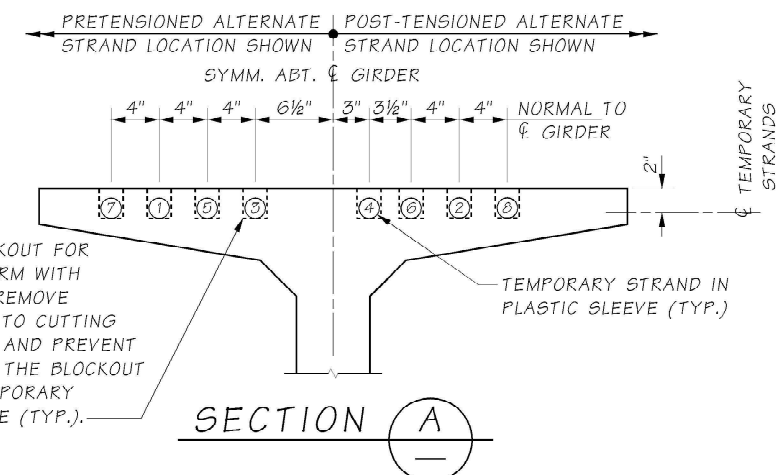


PLAN
POST-TENSIONED TEMPORARY
TOP STRANDS ALTERNATE

SEE GIRDER SCHEDULE FOR NUMBER OF TEMPORARY STRANDS REQUIRED.

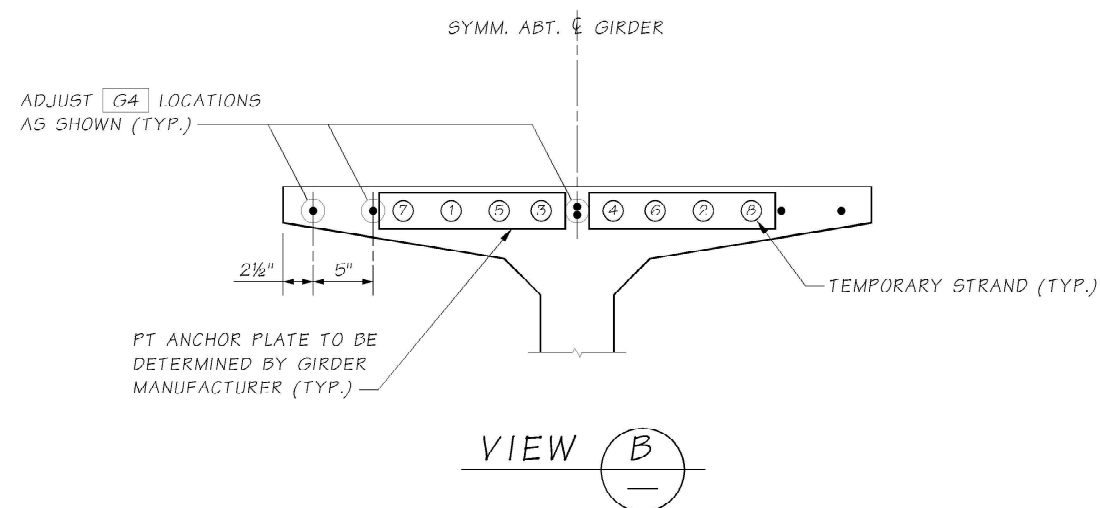
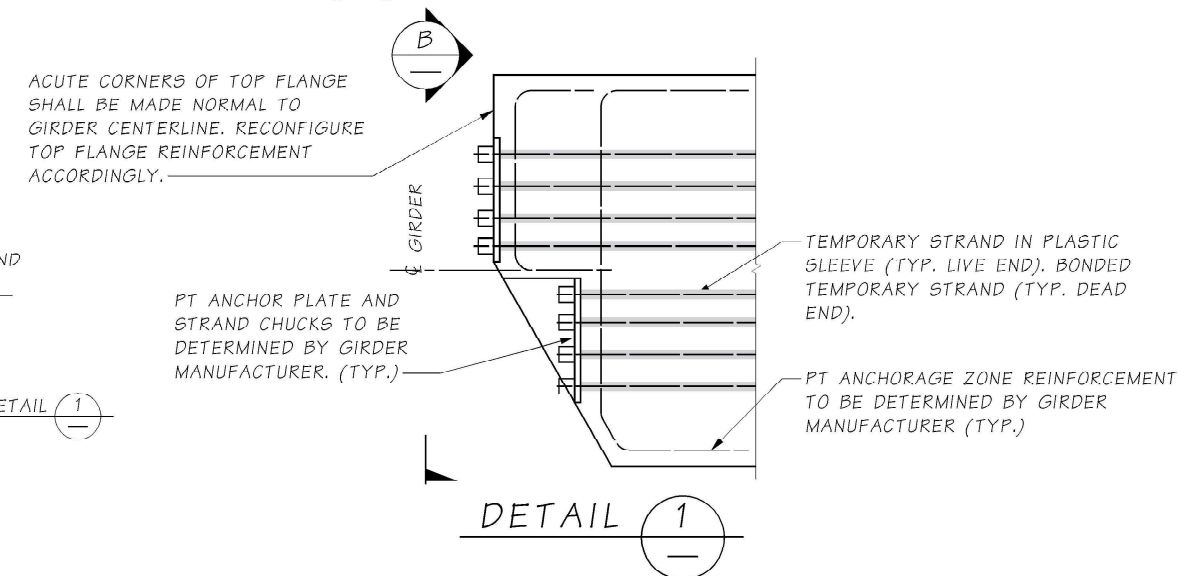
TEMPORARY STRAND NOTES

1. TEMPORARY TOP STRANDS SHALL BE EITHER PRETENSIONED OR POST-TENSIONED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 6-02.3(25)L.
2. FOR GIRDERS ERECTED ON A LONGITUDINAL GRADE, STRAND DETENSIONING BLOCKOUTS SHALL BE PLACED AT THE LOW END OF THE GIRDER.
3. SEE "TEMPORARY STRAND CUTTING SEQUENCE" ON CONSTRUCTION SEQUENCE SHEET FOR TEMPORARY STRAND DETENSIONING PROCEDURE.



NOTES:

1. TEMPORARY STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ② ETC.

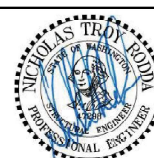


Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\025 GIR DET5.wnd	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				
Designed By	Jaberi, A	10/19			
Checked By	Rodda, NT	01/20			
Detailed By	Davis, E	10/19			
Bridge Projects Engr.					
Prelim. Plan By					
Architect/Specialist					
DATE	REVISION	BY	APP'D		



Khaleghi, Bijan
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BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:27 AM cosign

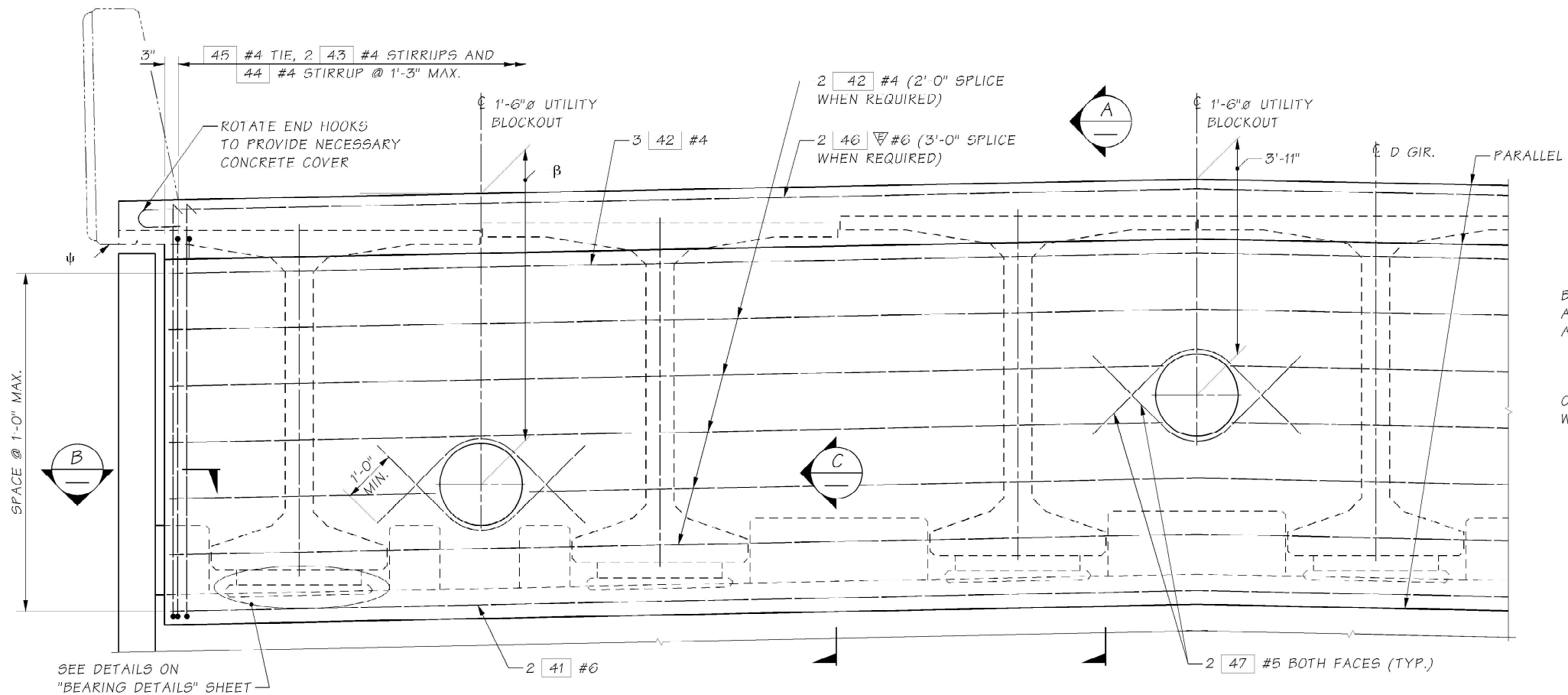


Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

WF74TDG GIRDER
DETAILS 5 OF 5

BRIDGE
SHEET NO.
BR25
SHEET
65
OF
100
SHEETS

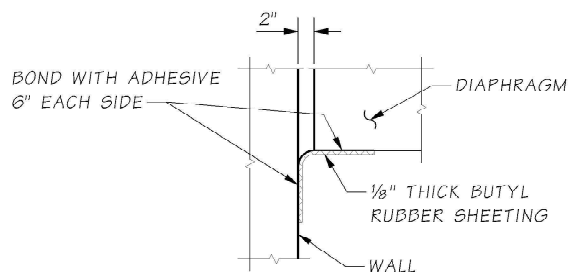


	PIER	DIM.
β	1	5'-3 $\frac{3}{8}$ "
	2	3'-6 $\frac{5}{8}$ "

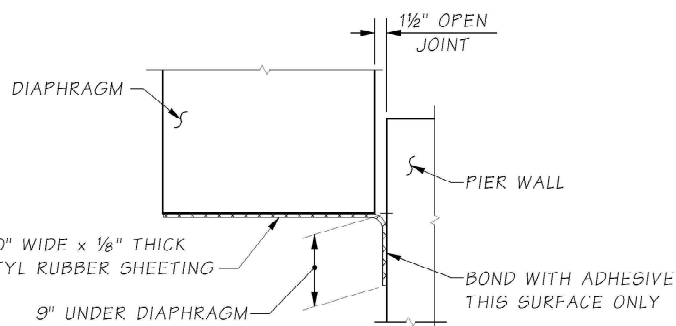
ELEVATION END DIAPHRAGM

PIER 1 SHOWN, PIER 2 SIMILAR.
DIMENSIONS ARE ALONG ϕ DIAPHRAGM.

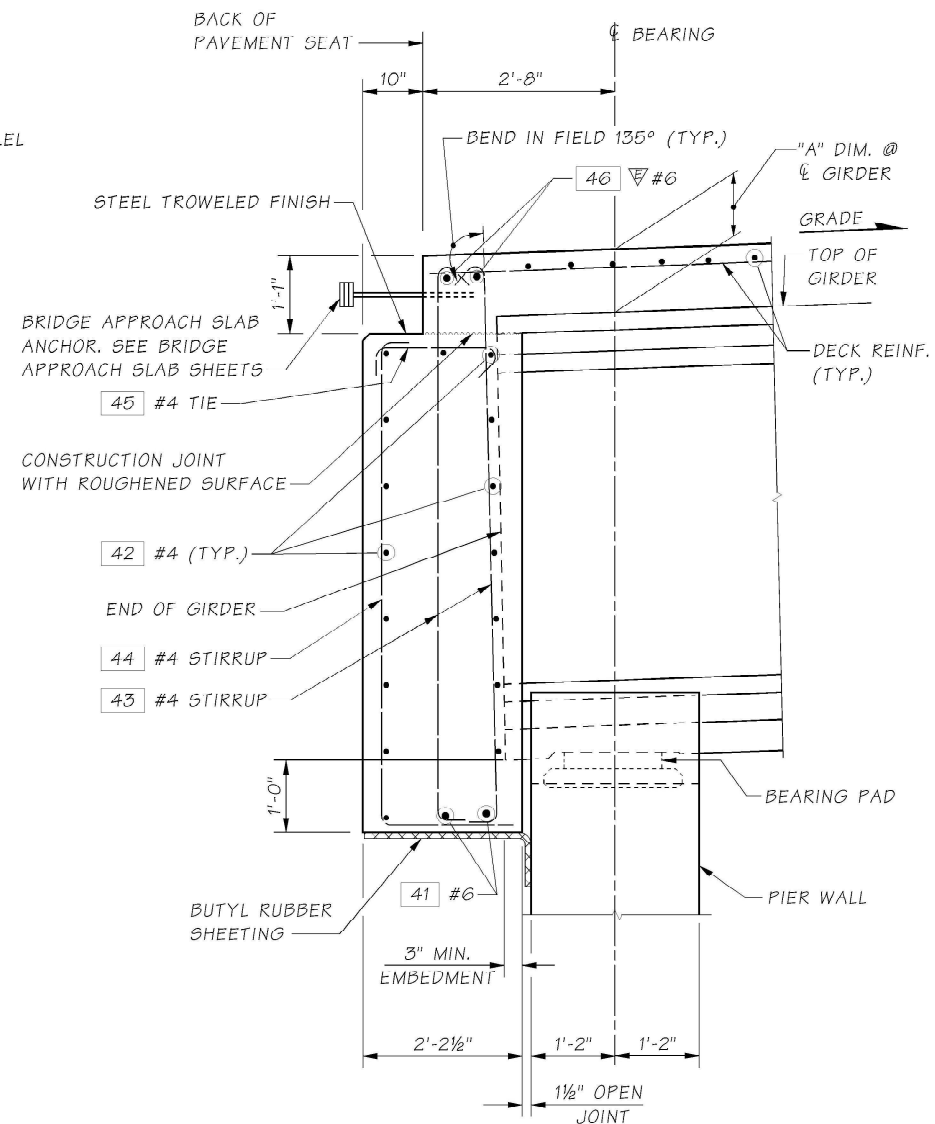
ψ - END DIAPHRAGM SOFFIT
TO MATCH EDGE OF GIRDER



SECTION B



SECTION C



SECTION A

SEE GIRDER SCHEDULE
FOR DIMENSION "A".
ALL LONGITUDINAL
DIMENSIONS ARE
NORMAL TO PIER WALL.

NOTES:

- GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
- EXTENDED STRANDS AND GIRDER REINFORCING NOT SHOWN FOR CLARITY.

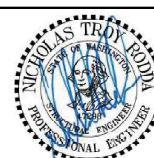
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\027 END DIAPH.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A	10/19		JOB NUMBER				
Checked By	Rodda, NT	01/20		19A031				
Detailed By	Davis, E	10/19		CONTRACT NO.				
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APP'D			

Tue Oct 19 10:49:04 2020



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BRIDGE
AND
STRUCTURES
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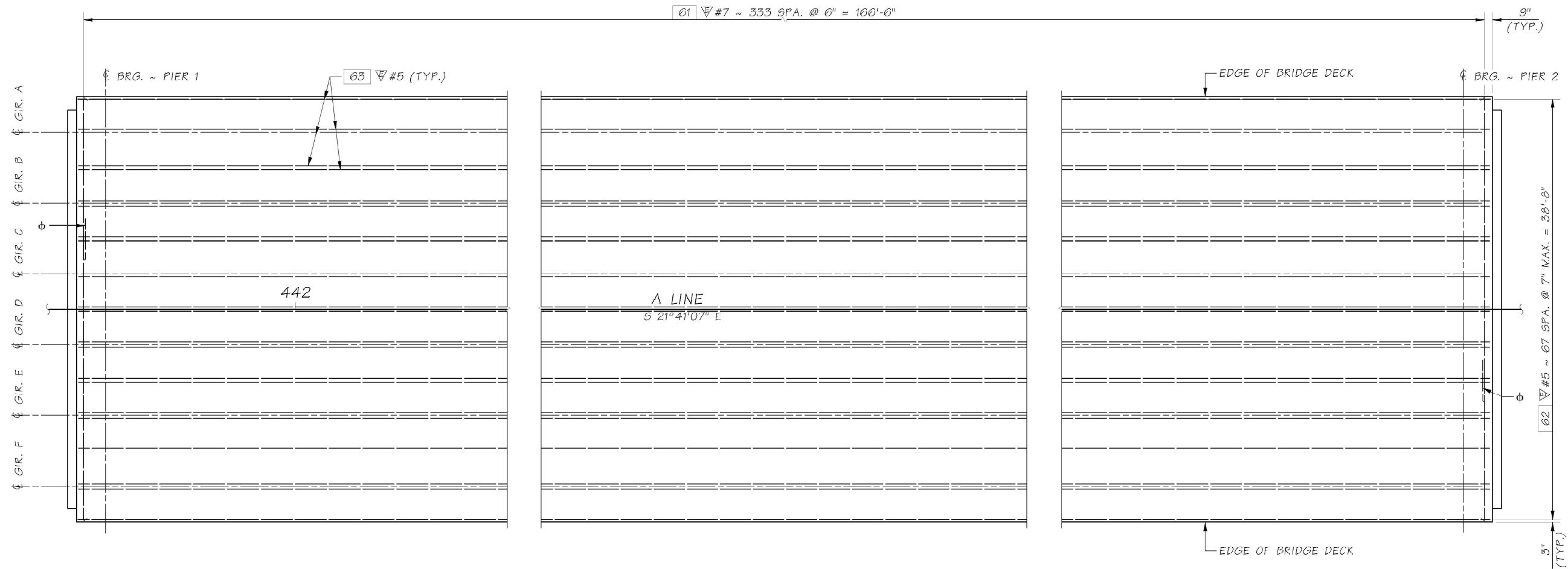
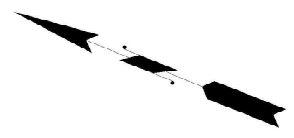
Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

END DIAPHRAGM DETAILS

BRIDGE
SHEET
NO.
BR26
SHEET
66
OF
100
SHEETS

SR 164 FILE NO. SHEET BR27



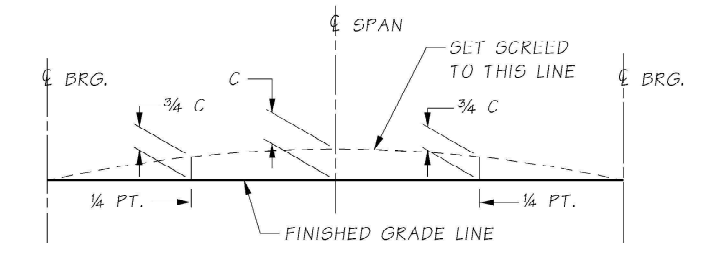
NOTES:

1. MINIMUM REBAR SPLICE LENGTH UNLESS AS NOTED:
#5 = 2'-6"
#7 = 3'-9"
2. LOCATION OF SPLICES AT CONTRACTORS OPTION UNLESS OTHERWISE NOTED.
3. ALL SPLICES SHALL BE STAGGERED SO NOT MORE THAN 50% OF THE REBAR IS SPLICED AT THE SAME LOCATION, UNLESS OTHERWISE NOTED.

PLAN
BRIDGE DECK REINFORCEMENT

FOR REINFORCEMENT NOT SHOWN, SEE "END DIAPHRAGM" AND "INTERMEDIATE DIAPHRAGM" SHEETS.

Φ - PERMISSIBLE 3'-9" MIN. LAP SPLICE CENTERED BETWEEN GIRDERS ALTERNATE SPLICE LOCATION EVERY OTHER BAR ABOUT Φ BRIDGE DECK.



SCREED SETTING DIMENSIONS
FOR DIMENSION "C" SEE GIRDER SCHEDULE

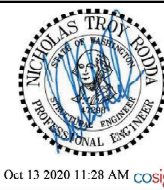
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Supervisor	Rodda, NT		
Designed By	Jaberi, A	10/19	
Checked By	Rodda, NT	01/20	
Detailed By	Davis, E	10/19	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER				
19A031				
CONTRACT NO.				



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Oct 14 2020 3:34 PM cosign

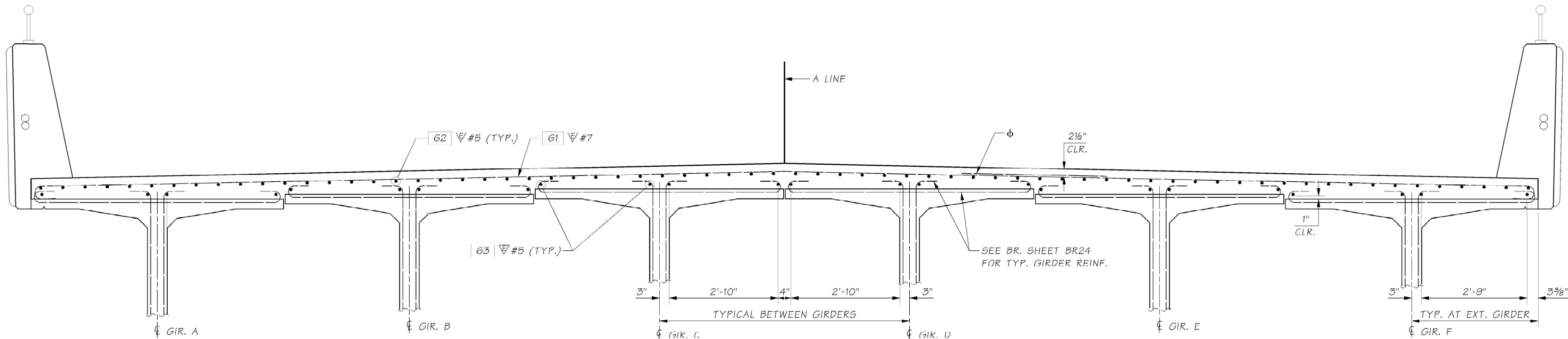
BRIDGE
AND
STRUCTURES
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SR 164 PUSSYFOOT CREEK FISH PASSAGE NEW BRIDGE NO. 164/25		BRIDGE SHEET NO. BR27
BRIDGE DECK REINFORCEMENT PLAN		SHEET 67 OF 100 SHEETS



SECTION
BRIDGE DECK REINFORCEMENT

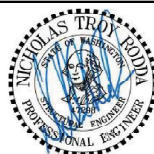
φ - PERMISSIBLE 3'-9" MIN. LAP SPLICE CENTERED BETWEEN GIRDERS ALTERNATE SPLICE LOCATION EVERY OTHER BAR ABOUT C BRIDGE DECK.

Bridge Design Engr.	Khaleghi, B	M:\w-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\029 DECK REINF SEC.wnd					
Supervisor	Rodda, NT						
Designed By	Jaberi, A	10/19					
Checked By	Rodda, NT	01/20					
Detailed By	Davis, E	10/19					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist							
	DATE	REVISION	BY	APPD			



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Oct 14 2020 3:34 PM cosign

BRIDGE
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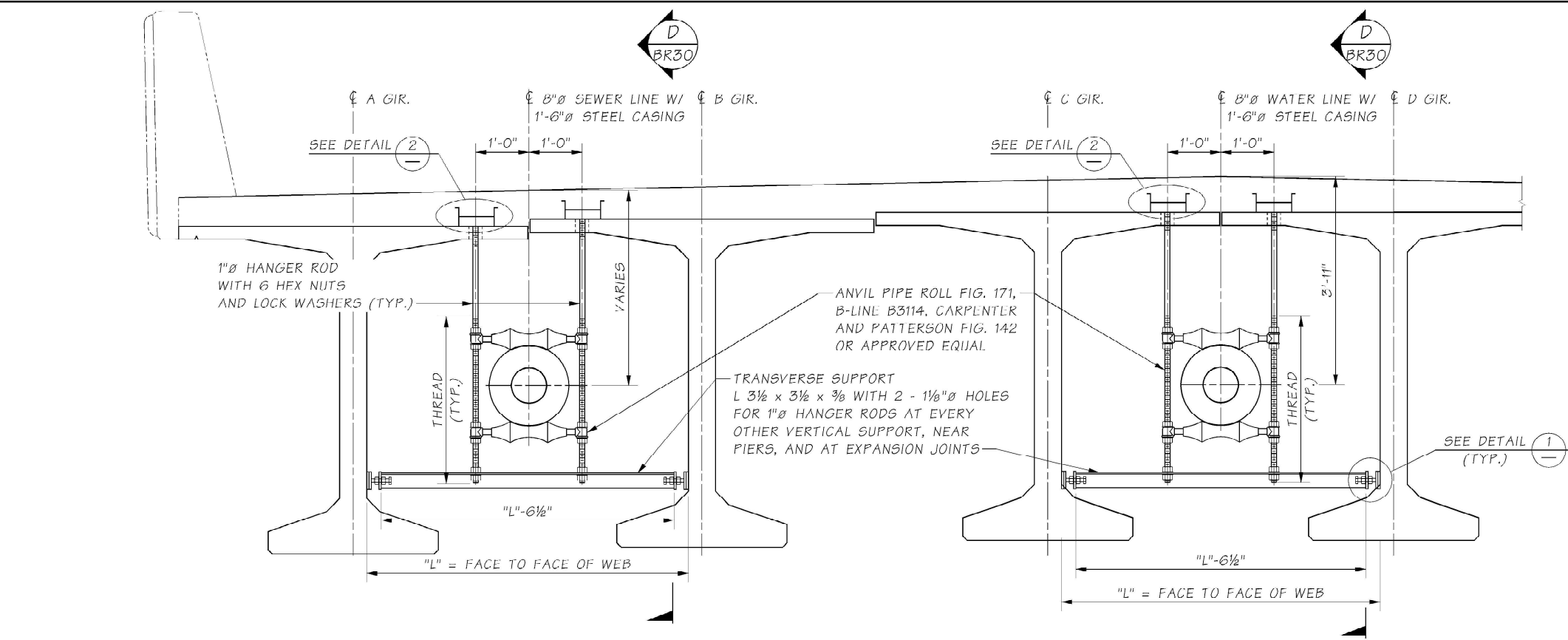


Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

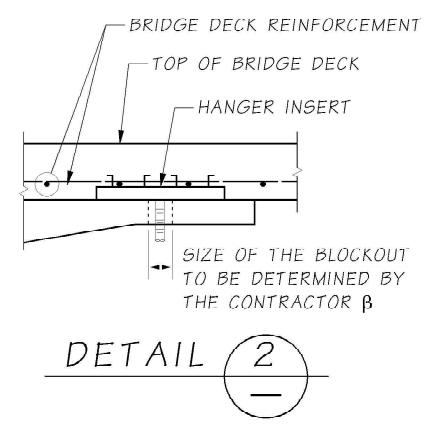
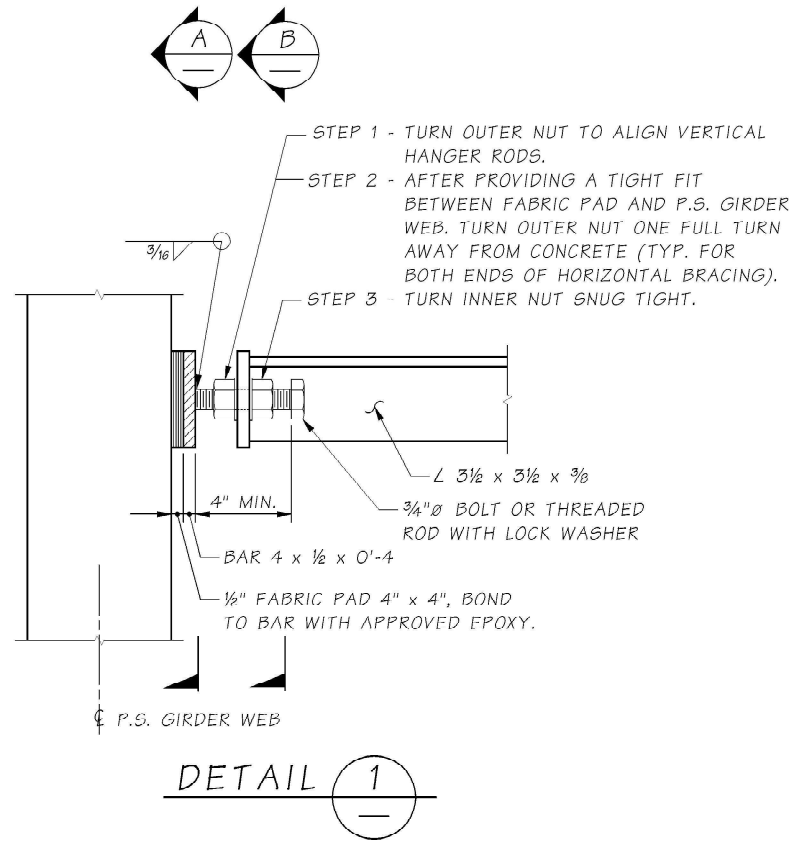
BRIDGE DECK REINFORCEMENT SECTION

BRIDGE
SHEET
NO.
BR28
SHEET
68
OF
100
SHEETS

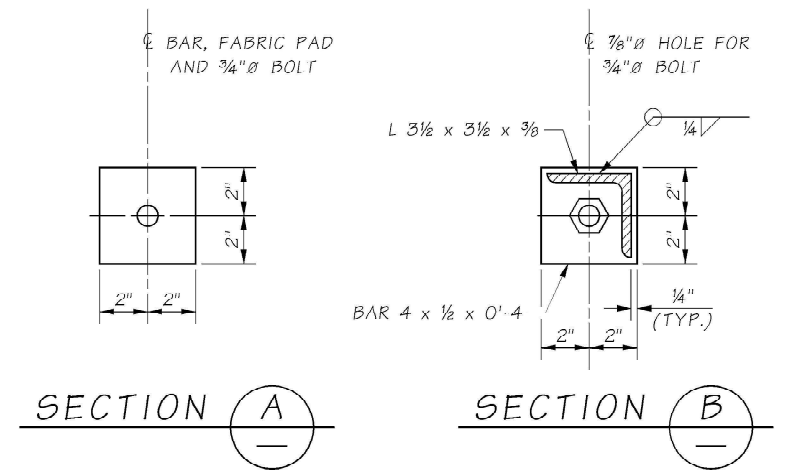


- NOTES:
1. ALL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M 111 OR AASHTO M 232 EXCEPT PIPE ROLLERS.
 2. PAINT ROLLERS WITH THREE COATS OF GALVANIZING REPAIR PAINT. SEE STD. SPEC. SECTION 9-08.1(2)B.
 3. WHERE TRANSVERSE SUPPORT CONFLICTS WITH SANITARY SEWER, THE TRANSVERSE SUPPORT SHALL BE PLACED ABOVE THE SANITARY SEWER LINE.

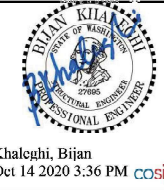
HANGER UTILITY SUPPORT



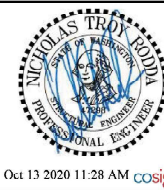
2 COOPER B-LINE B22-120, POWERSTRUT PS 349 1'8", OR UNISTRUT P3255, WITH SPRING NUT (TYP.). CHASE THREADS ON HANGER ROD FOR THREAD COMPATIBILITY WITH SPRING NUT. INSERT TO BE INSTALLED LEVEL LONGITUDINALLY AND TRANSVERSELY. PLACE INSERT TO PROVIDE FOR TRANSVERSE ADJUSTMENT OF HANGER RODS. HANGER RODS SHALL NOT BE WITHIN 2" OF THE END OF THE INSERT. TWO INSERTS MAY BE USED TO ACCOMMODATE SUPERELEVATION.



Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\030 UTIL DET1.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT		10	WASH.			
Designed By	Jaberi, A	10/19					
Checked By	Rodda, NT	01/20					
Detailed By	Davis, E	10/19					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist							
DATE	REVISION	BY	APP'D				

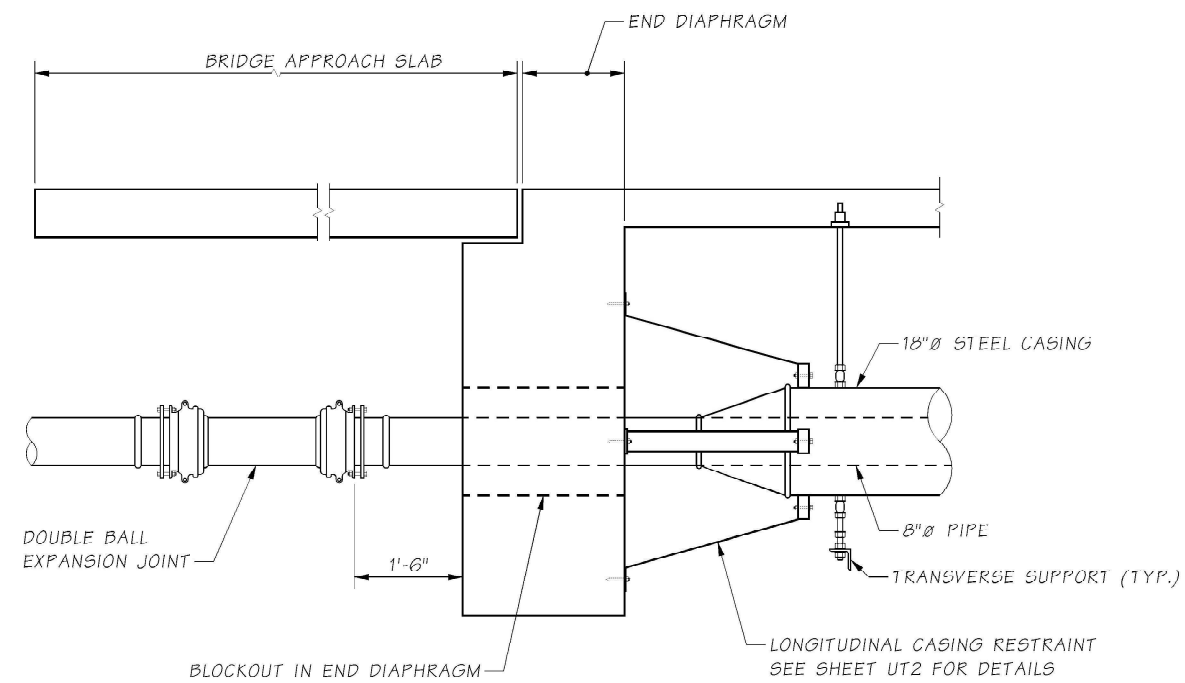


BRIDGE AND STRUCTURES OFFICE

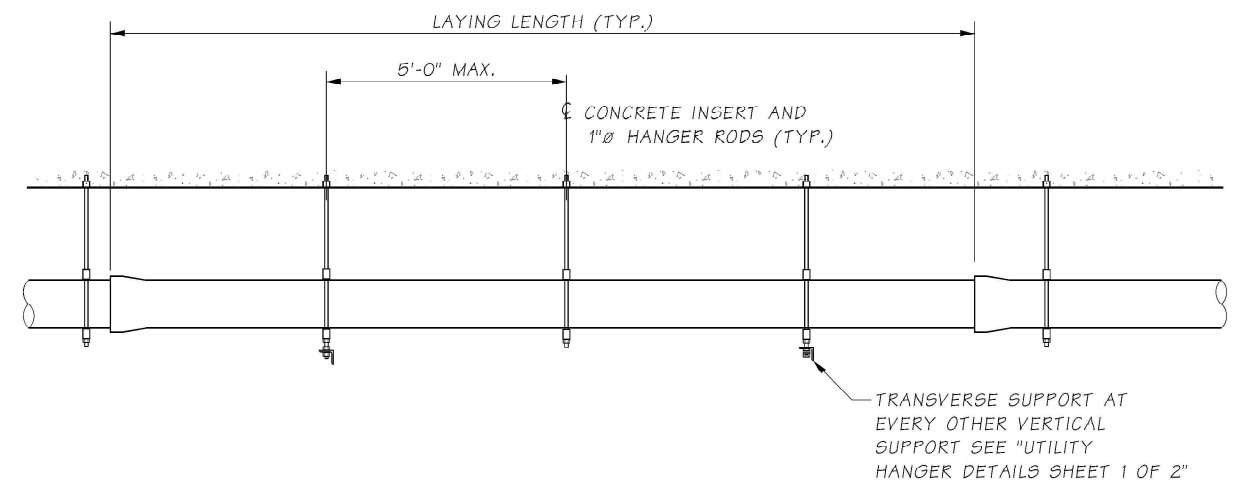


SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25
UTILITY HANGER
DETAILS 1 OF 2

BRIDGE SHEET NO.
BR29
SHEET 69 OF 100
SHEETS



UTILITY CASING
PLACEMENT DETAIL

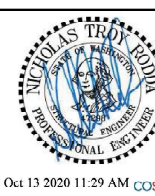


SECTION **D**
BR29

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\031 UTIL DET2.wnd						
Supervisor	Rodda, NT							
Designed By	Jaberi, A	10/19						
Checked By	Rodda, NT	01/20						
Detailed By	Davis, E	10/19						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist								
	DATE	REVISION	BY	APP'D				



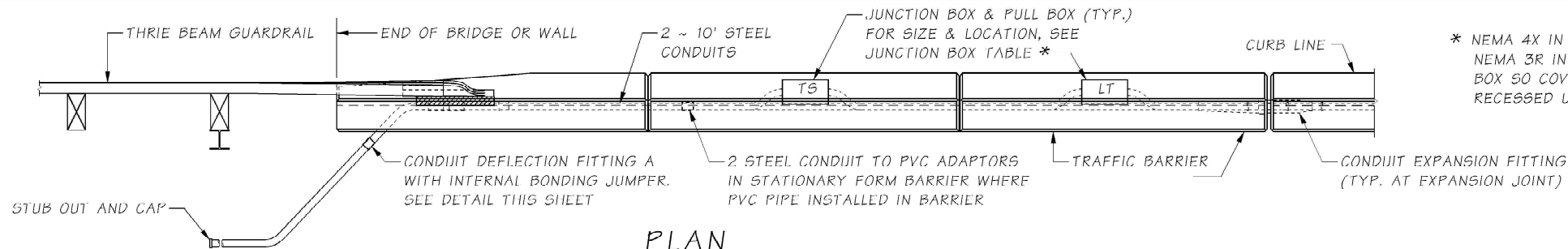
BRIDGE
AND
STRUCTURES
OFFICE



SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

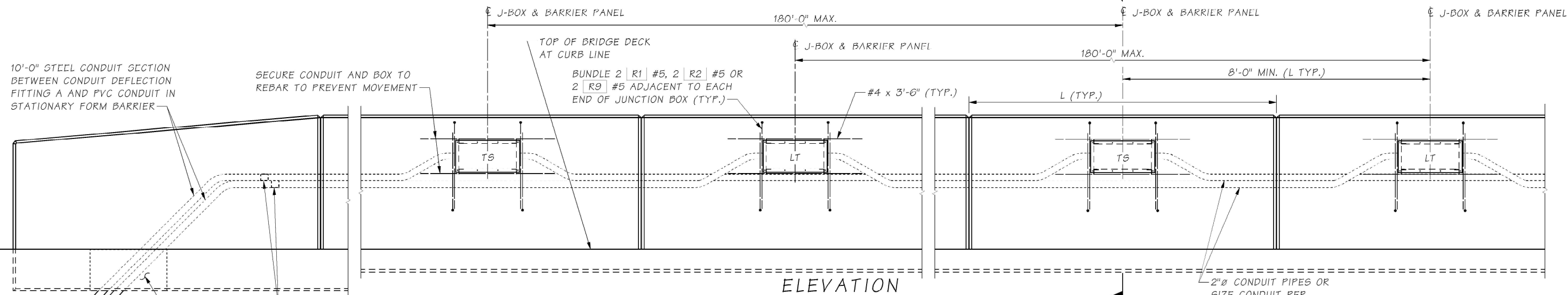
UTILITY HANGER
DETAILS 2 OF 2

BRIDGE
SHEET
NO.
BR30
SHEET
70
OF
100
SHEETS



* NEMA 4X IN STATIONARY FORM BARRIER, OR NEMA 3R IN SLIP FORM BARRIER. MOUNT JUNCTION BOX SO COVER IS FLUSH WITH BARRIER, CAN BE RECESSED UP TO 1/8".

PLAN CONDUITS & J-BOX IN TRAFFIC BARRIER



ELEVATION CONDUITS & J-BOX IN TRAFFIC BARRIER

LABEL JUNCTION BOX COVER IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 9-29.2(4). ADJACENT JUNCTION BOXES ARE SHOWN CENTERED BETWEEN ADJACENT DUMMY JOINTS. IF THE DISTANCE BETWEEN ADJACENT DUMMY JOINTS IS 16'-0" OR GREATER, PLACE ADJACENT JUNCTION BOXES SYMMETRICALLY ON EITHER SIDE OF THE CENTER OF ONE DUMMY PANEL WHILE MAINTAINING 8'-0" MINIMUM BETWEEN CENTER LINES OF THE JUNCTION BOXES.

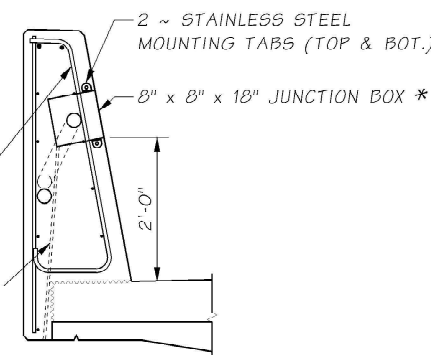
WHERE CONDUIT IN A STRUCTURE IS ROUTED ACROSS A JOINT, WRAP STEEL CONDUIT PIPE FOR 1'-0" ON EACH SIDE OF JOINT. PIPE WRAP TAPE SHALL BE 2" WIDE, 20 MIL THICK, AND INSTALLED WITH A MINIMUM OF 1" OVERLAP

1/2" PREMOLDED JOINT FILLER
SEE STANDARD PLANS

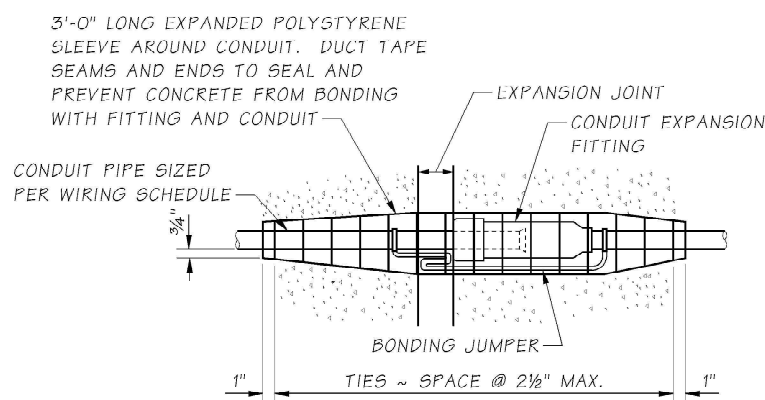
WHERE CONDUIT IN A STRUCTURE IS ROUTED ACROSS A JOINT, WRAP STEEL CONDUIT PIPE FOR 1'-0" ON EACH SIDE OF JOINT. PIPE WRAP TAPE SHALL BE 2" WIDE, 20 MIL THICK, AND INSTALLED WITH A MINIMUM OF 1" OVERLAP

3/4" POLYSTYRENE FOAM. WRAP 1 1/2 TIMES AROUND CONDUIT AND CONDUIT FITTING

SECTION B

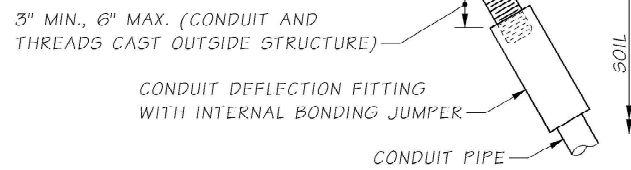


SECTION A



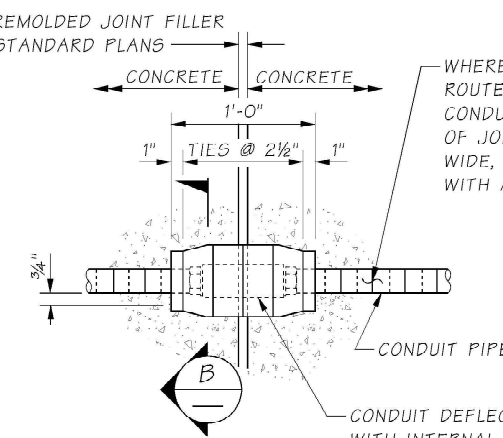
CONDUIT EXPANSION FITTING

CONDUIT FITTING - (TYPE AX FOR MOVEMENT OF ± 2") AT BRIDGE EXPANSION JOINTS



CONDUIT DEFLECTION FITTING A

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND 3/4" MOVEMENT. PLACE AT CONDUIT PIPE EXIT FROM STRUCTURE AND SHALL BE IN NEUTRAL STATE AFTER INSTALLATION.



CONDUIT DEFLECTION FITTING B

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND 3/4" MOVEMENT. CONDUIT PIPES PLACED THROUGH RETAINING WALL TRAFFIC BARRIER SHALL BE FITTED WITH DEFLECTION FITTINGS AT A MAXIMUM SPACING OF 120'. THE DEFLECTION FITTINGS SHALL BE PLACED AT THE TRAFFIC BARRIER OPEN JOINT THAT COINCIDES WITH THE RETAINING WALL EXPANSION JOINT.

SR 164 FILE NO. SHEET BR33

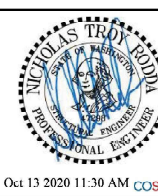
Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR\window files\034 TB3.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT		10	WASH.			
Designed By	Jaberi, A	10/19	JOB NUMBER 19A031				
Checked By	Rodda, NT	01/20	CONTRACT NO.				
Detailed By	Davis, E	10/19					
Bridge Projects Engr.			DATE	REVISION	BY	APPD	
Prelim. Plan By							
Architect/Specialist							

Tue Oct 13 10:49:07 2020



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Oct 14 2020 3:37 PM cosign

BRIDGE
AND
STRUCTURES
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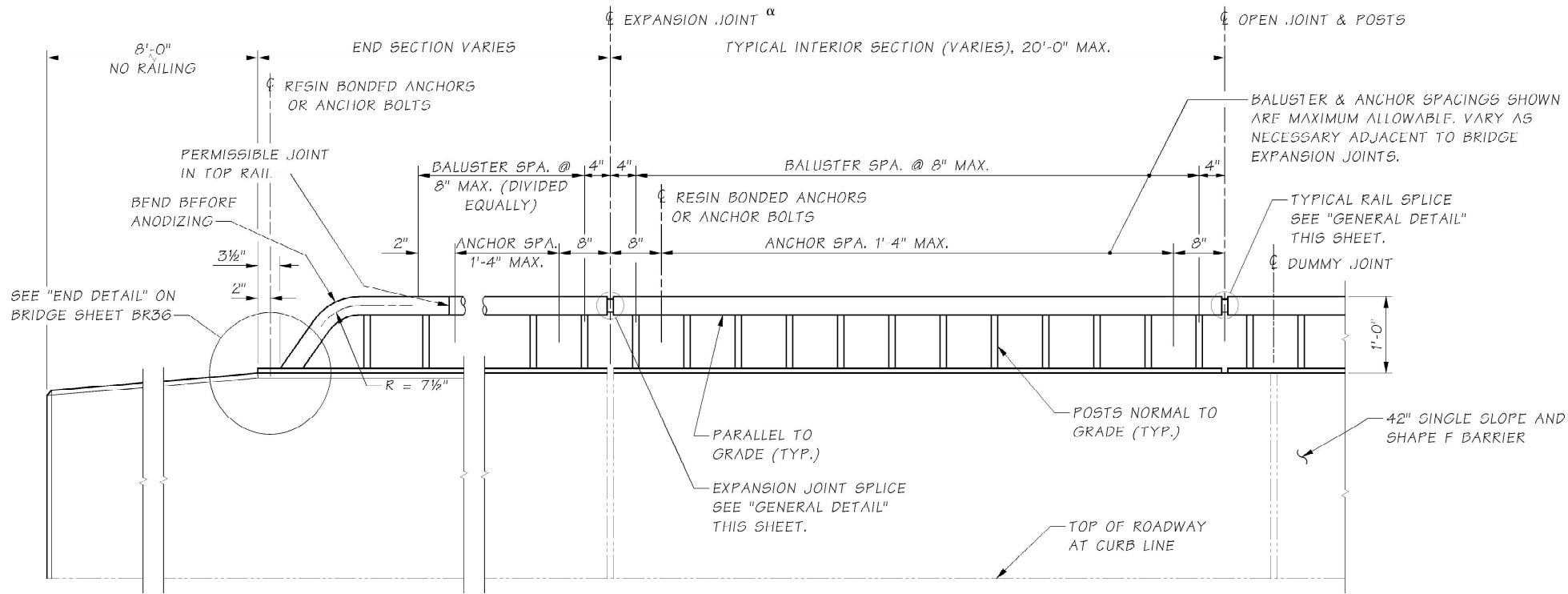
Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

TRAFFIC BARRIER
DETAILS 3 OF 4

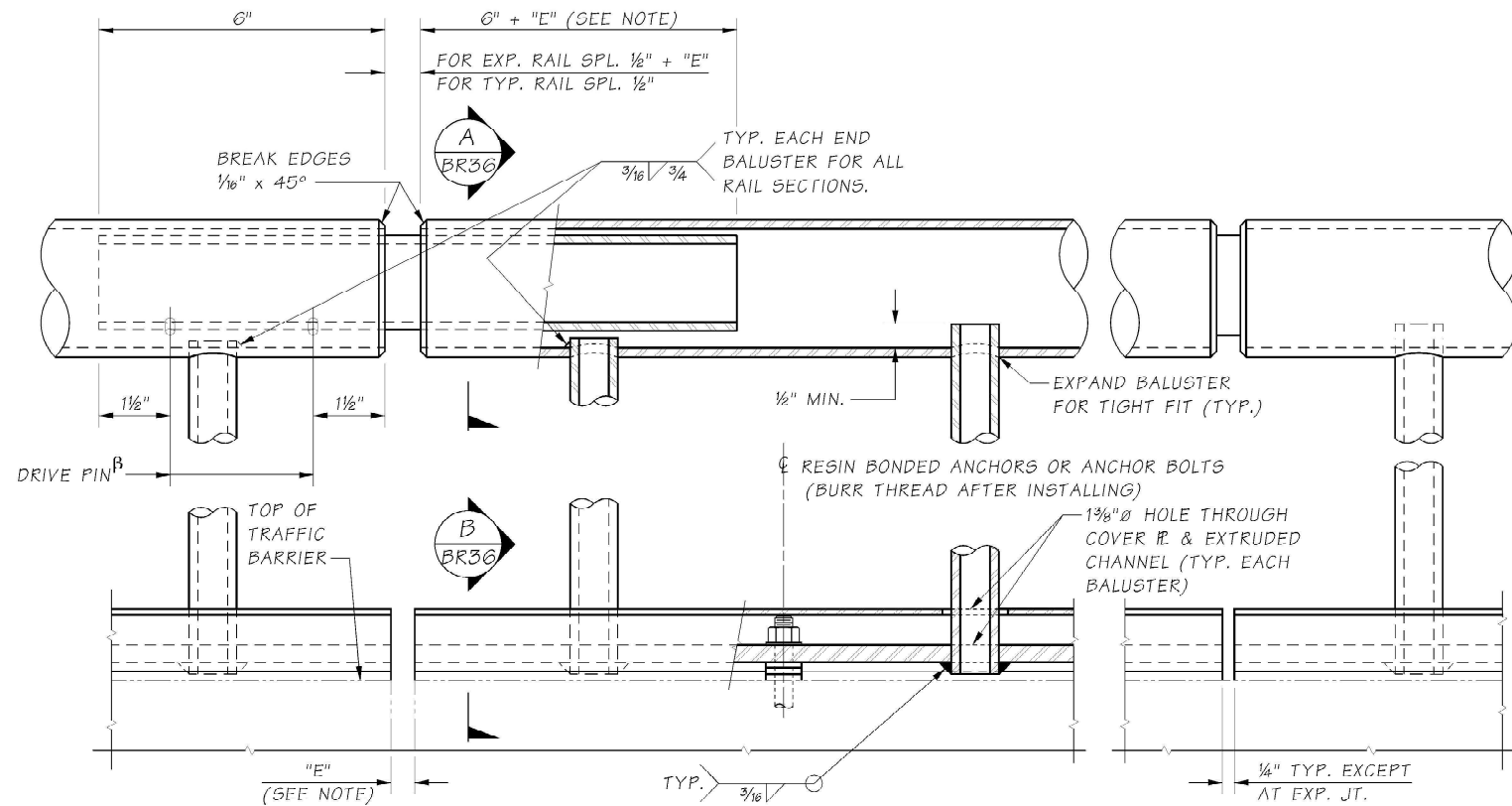
BRIDGE
SHEET NO.
BR33
SHEET
73
OF
100
SHEETS

SR 164 FILE NO. SHEET BR35



ELEVATION

BALUSTER AND GUARDRAIL SECTION
ATTACHMENT DETAILS NOT SHOWN.



GENERAL DETAIL

NOTES

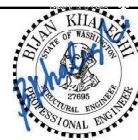
- PIPE RAILING AND PIPE RAILING SPLICES SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'. THESE ITEMS MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING TO HORIZONTAL CURVATURE.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- WELDING OF ALUMINUM SHALL CONFORM TO STD. SPEC. SECTION 9-28.14(3).
- AFTER FABRICATION, POSTS SHALL BE HEAT TREATED IN ACCORDANCE WITH SECTION 6.5 OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS DATED 2001.
- ALL ALUMINUM PARTS SHALL BE GIVEN A CLEAR ANODIC COATING OF AT LEAST 0.0006" THICK AND SEALED TO MEET THE REQUIREMENTS OF ASTM B 580 WITH A UNIFORM FINISH.
- PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.

α PROVIDE EXPANSION RAIL SPLICE AT TRAFFIC BARRIER EXPANSION JOINTS. RAIL SPLICE JOINTS ARE NOT REQUIRED AT TRAFFIC BARRIER DUMMY JOINTS.

β LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.

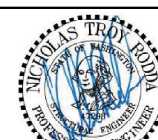
NOTE:
"E" DIMENSION SHALL BE EQUAL TO OPENING OF TRAFFIC BARRIER EXPANSION JOINTS.

Bridge Design Engr.	Khaleghi, B	M:\w-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\037 BR RAIL1.wnd	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT			10	WASH.			
Designed By	Jaberi, A	10/19						
Checked By	Rodda, NT	01/20						
Detailed By	Davis, E	10/19						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist		DATE	REVISION	BY	APP'D			



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BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:31 AM cosign

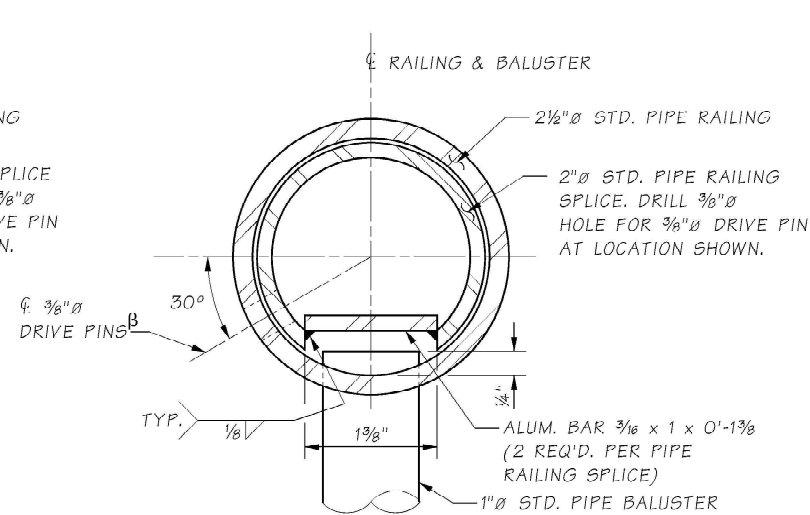
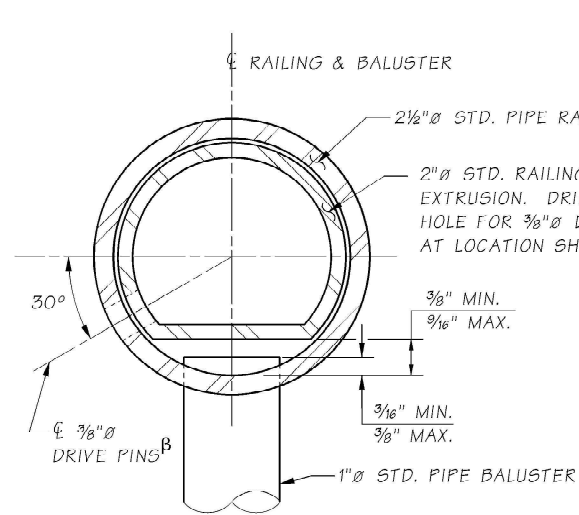
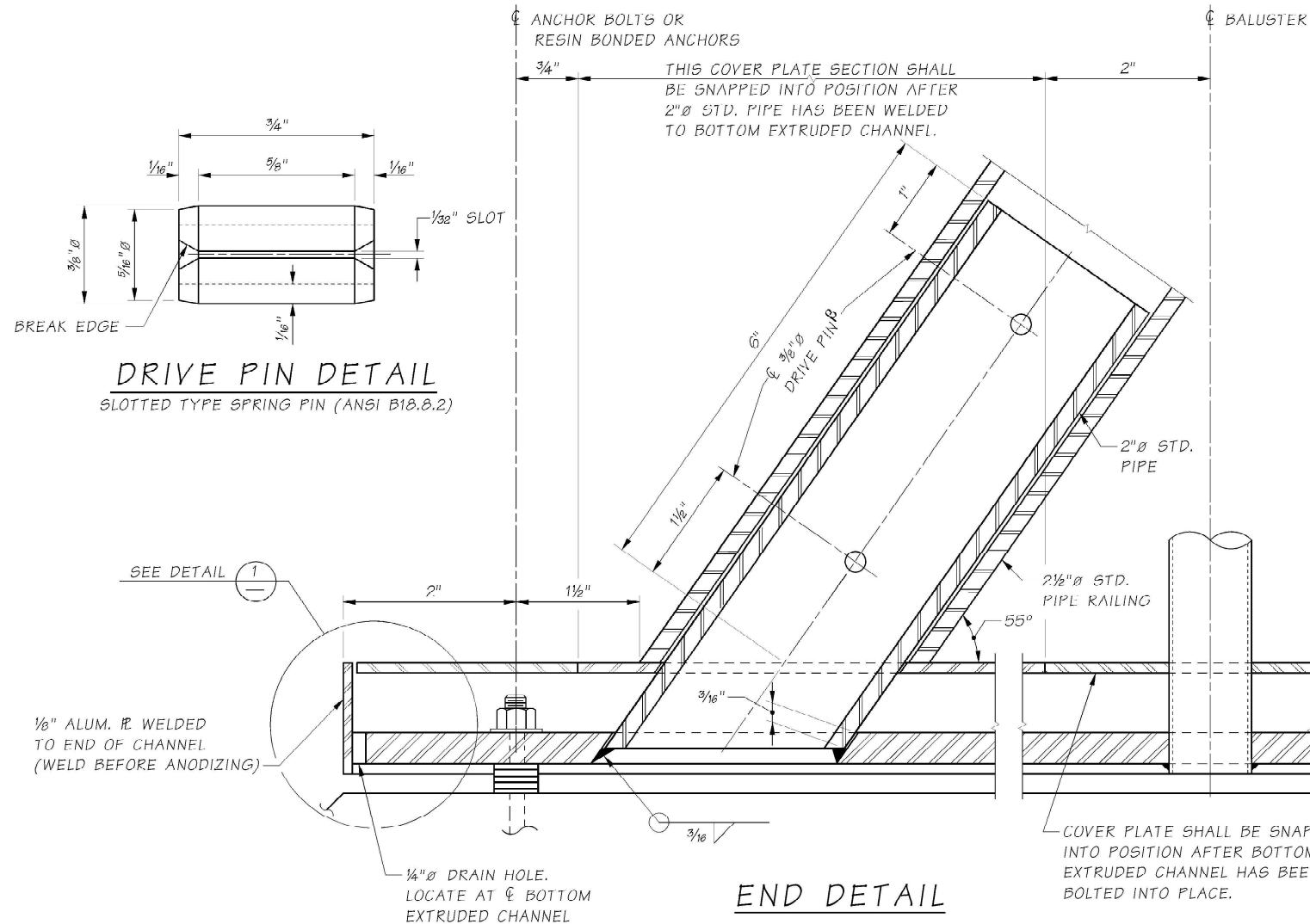


Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

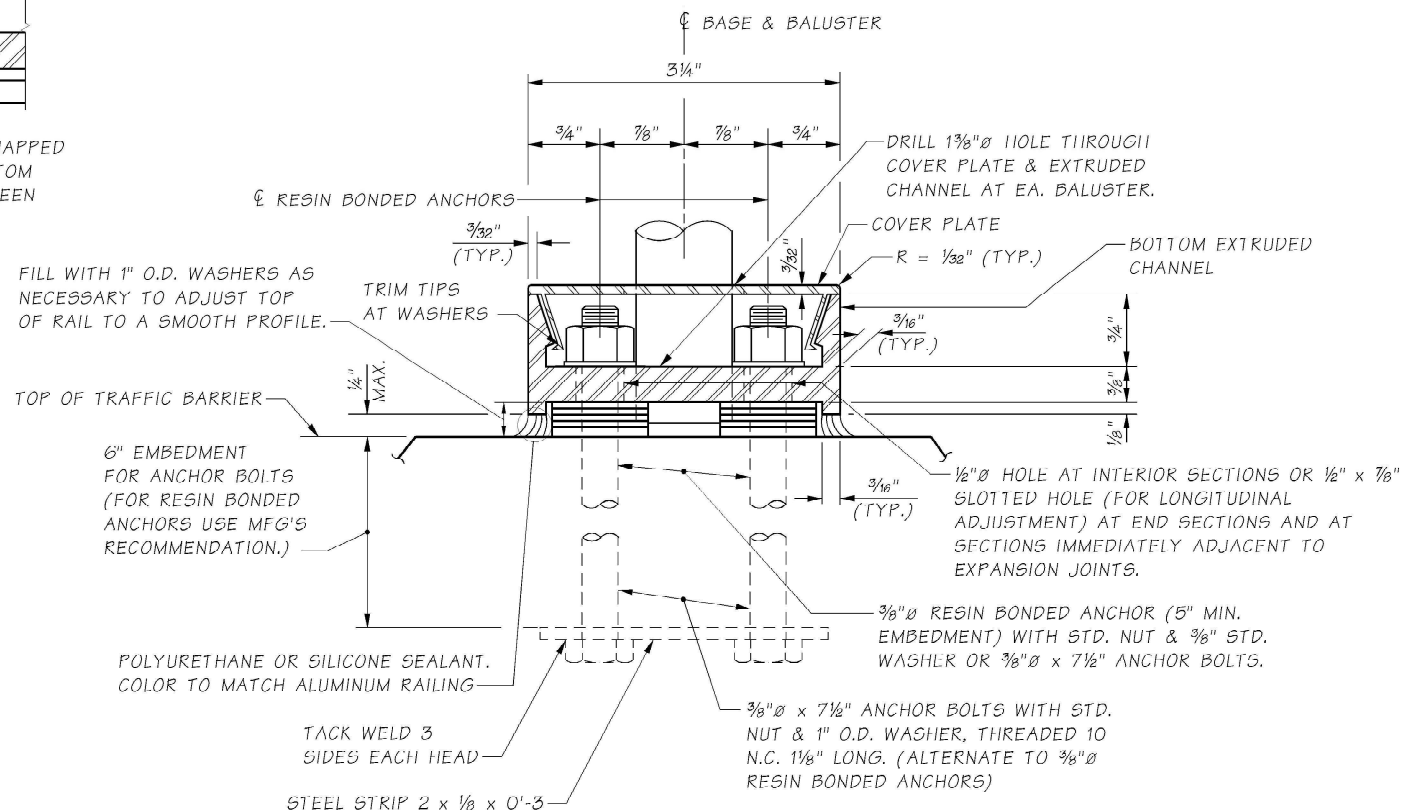
BRIDGE RAILING TYPE BP-12
DETAILS 1 OF 2

BRIDGE
SHEET NO.
BR35
SHEET
75
OF
100
SHEETS



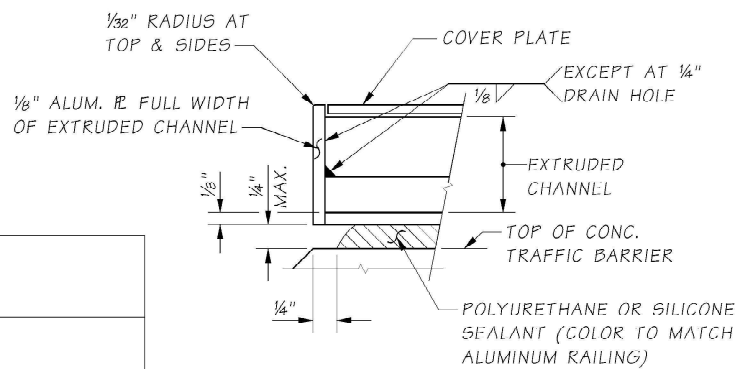
B LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.

B LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.

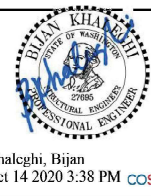


ANCHOR BOLTS SHALL BE POSITIONED IN A JIG DURING WELDING.

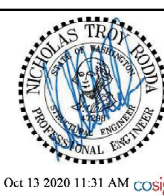
MAT'L	PART	MATERIAL SPECIFICATION
ALUMINUM	PIPES	ASTM B221-6005-T5 OR 6005A-T5 ASTM B241-6061-T6 OR B429
ALUMINUM	EXTRUDED CHANNELS, COVER PLATES & BAR	ASTM B221-6005-T5 OR 6005A-T5
STEEL	ANCHOR BOLTS, NUTS & WASHERS	STANDARD SPECIFICATION SECTION 9-06.5(4) (GALVANIZE IN ACCORDANCE WITH AASHTO SPECIFICATION M 232)
STEEL	STRIP	ASTM A36
STEEL	DRIVE PINS	ASTM A276 OR A240 TYPE 302 STAINLESS STEEL



Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR\window files\038 BR RAIL2.wnd
Supervisor	Rodda, NT		
Designed By	Jaberi, A	10/19	
Checked By	Rodda, NT	01/20	
Detailed By	Davis, E	10/19	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APP'D



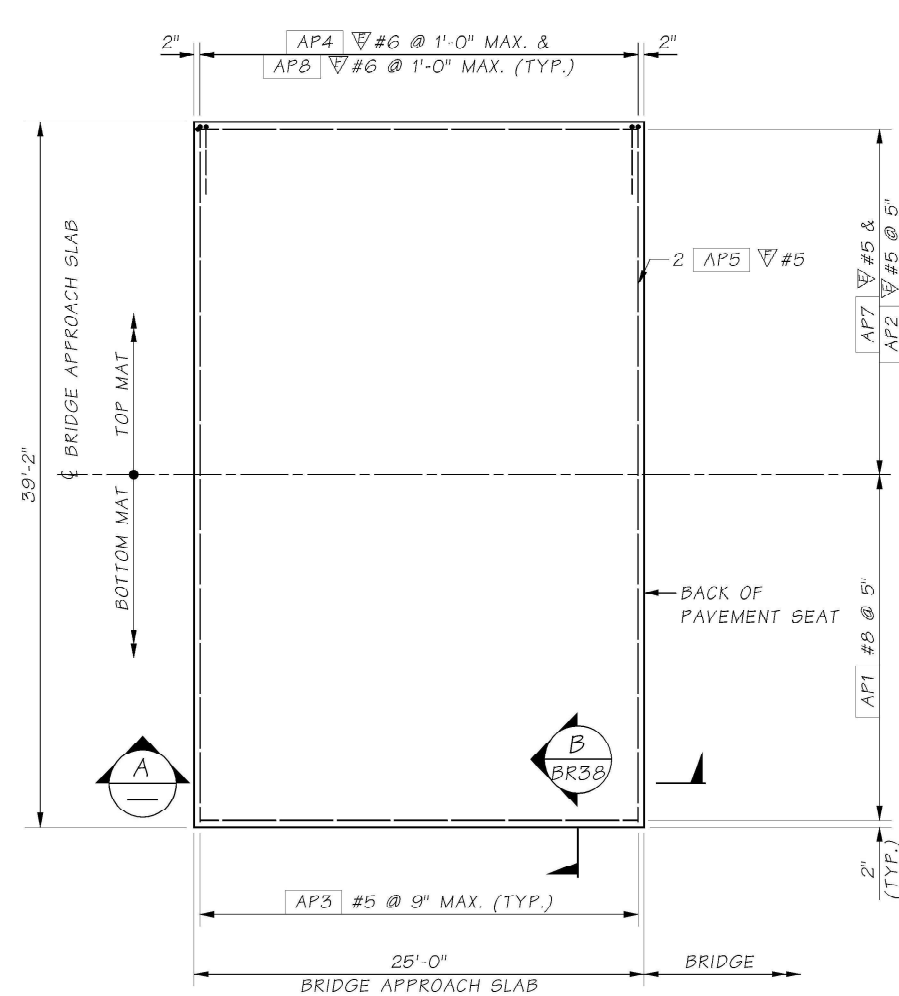
BRIDGE AND STRUCTURES OFFICE



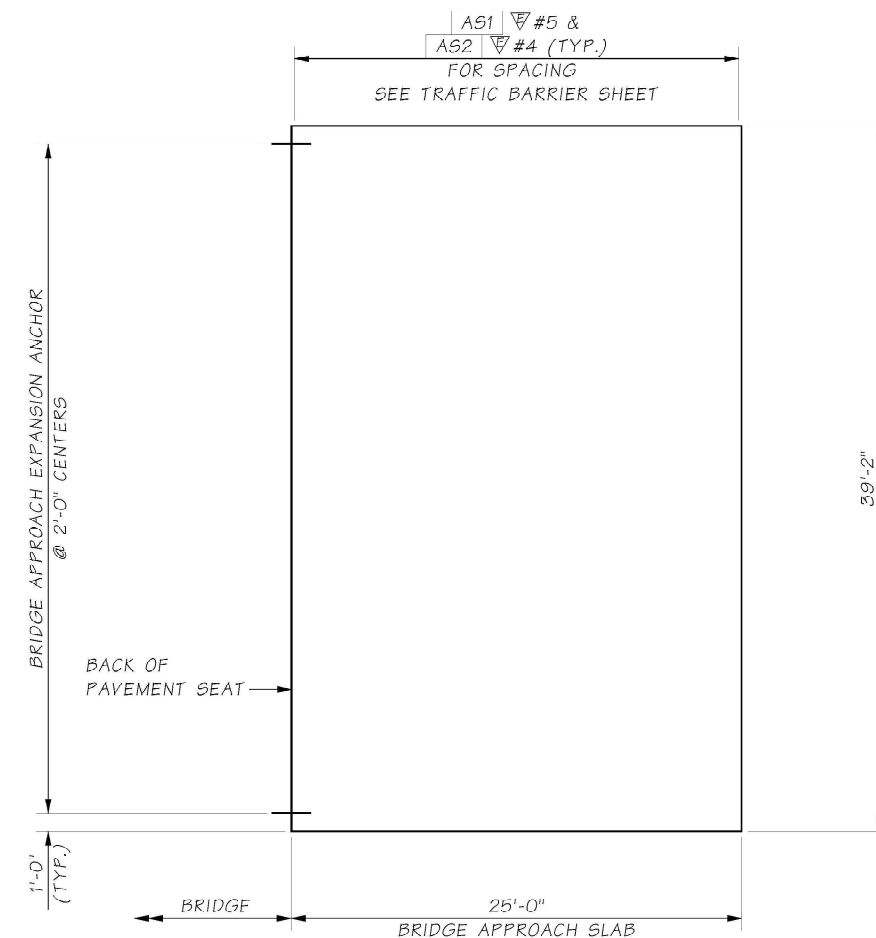
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

BRIDGE RAILING TYPE BP-12
DETAILS 2 OF 2

BRIDGE SHEET NO.
BR36
SHEET 76 OF 100
SHEETS



PLAN

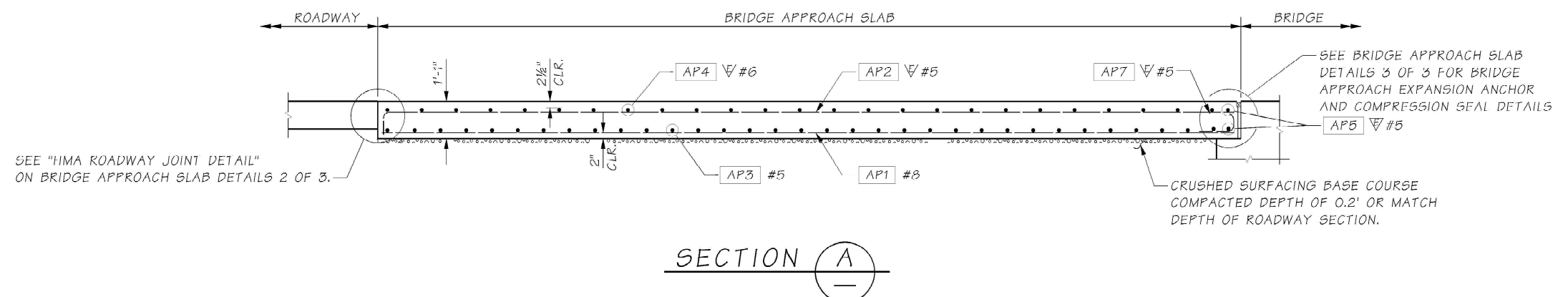
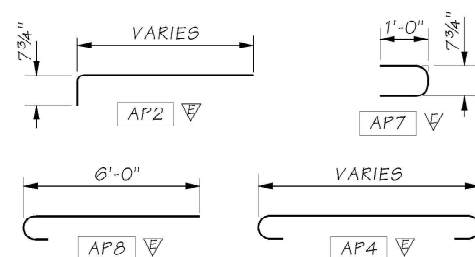


NOTES:

1. ALL EDGES OF BRIDGE APPROACH SLAB SHALL HAVE $\frac{1}{2}$ " RADIUS EXCEPT AT LONGITUDINAL JOINTS.
2. THE MINIMUM LAP SPLICE OF #5 IS 2'-0", ∇ #5 IS 2'-6", ∇ #6 IS 3'-0", AND #8 IS 3'-3". ALL LAP SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION. LAP SPLICES SHALL BE LOCATED WITHIN THE MIDDLE HALF OF THE BRIDGE APPROACH SLAB. OPTIONAL SPLICES ARE ALLOWED FOR AP4 ∇ #6.
3. FOR TRAFFIC BARRIER DETAILS, INCLUDING ANY BRIDGE APPROACH SLAB BLOCKOUT INFORMATION, SEE TRAFFIC BARRIER SHEETS.

BENDING DIAGRAM

NOTE: ALL DIMENSIONS ARE OUT TO OUT
 = EPOXY COATED REINFORCING STEEL

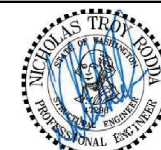


Bridge Design Engr.	Khaloghi, B	M:\W-Team\SR 164 PUSSEYFOOT CREEK\SR 164 PUSSEYFOOT	CR\window files\039 APPRI.wnd									
Supervisor	Rodda, NT					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS		
Designed By	Jaberi, A 10/19					10	WASH.					
Checked By	Rodda, NT 01/20											
Detailed By	Davis, E 10/19											
Bridge Projects Engr.						JOB NUMBER						
Prelim. Man By						18A031						
Architect/Specialist		DATE	REVISION	BY	APPD	CONTRACT NO.						



Khaleghi, Bijan
Oct 14 2020 3:39 PM cosign

BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:31 AM cosign

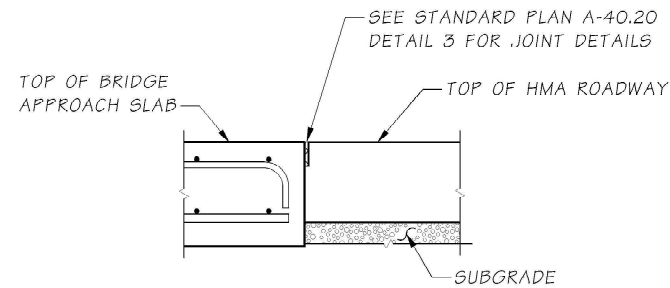


**Washington State
Department of Transportation**

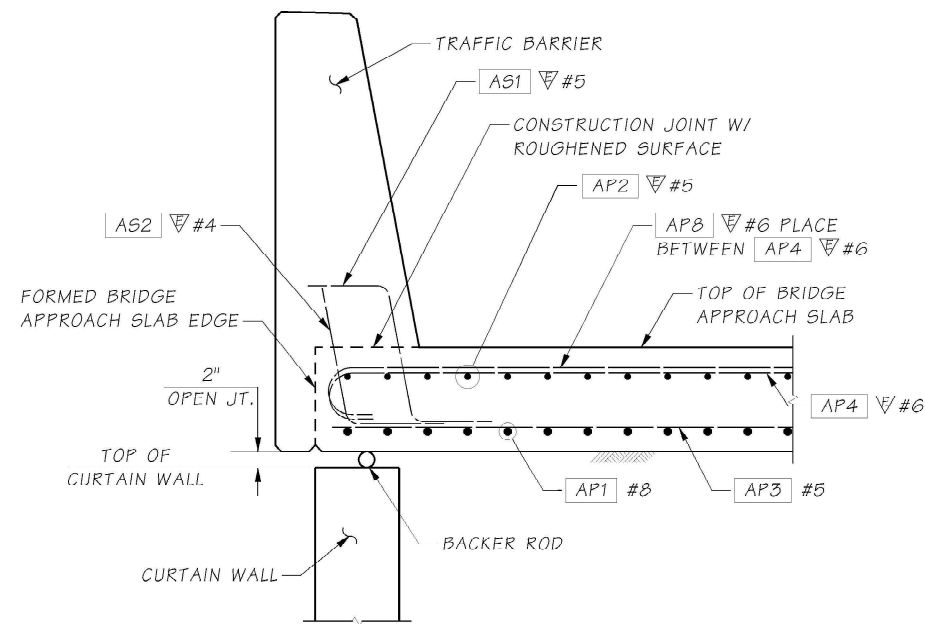
SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

BRIDGE APPROACH SLAB
DETAILS 1 OF 3

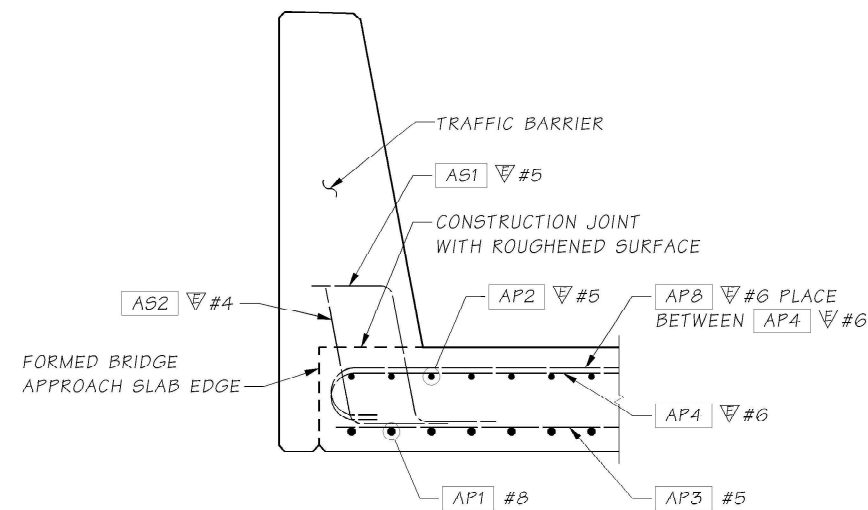
BRIDGE
SHEET
NO.
R37



HMA ROADWAY JOINT DETAIL



SECTION B
BR37



SECTION B
BR37

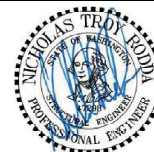
Bridge Design Engr.	Khaleghi, B	M:\w-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT	CR>window files\040 APPR2.wnd
Supervisor	Rodda, NT		
Designed By	Jaberi, A	10/19	
Checked By	Rodda, NT	01/20	
Detailed By	Davis, E	10/19	
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APPD

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER				
19A031				
CONTRACT NO.				



Khaleghi, Bijan
Oct 14 2020 3:39 PM cosign

BRIDGE
AND
STRUCTURES
OFFICE



Oct 13 2020 11:31 AM cosign

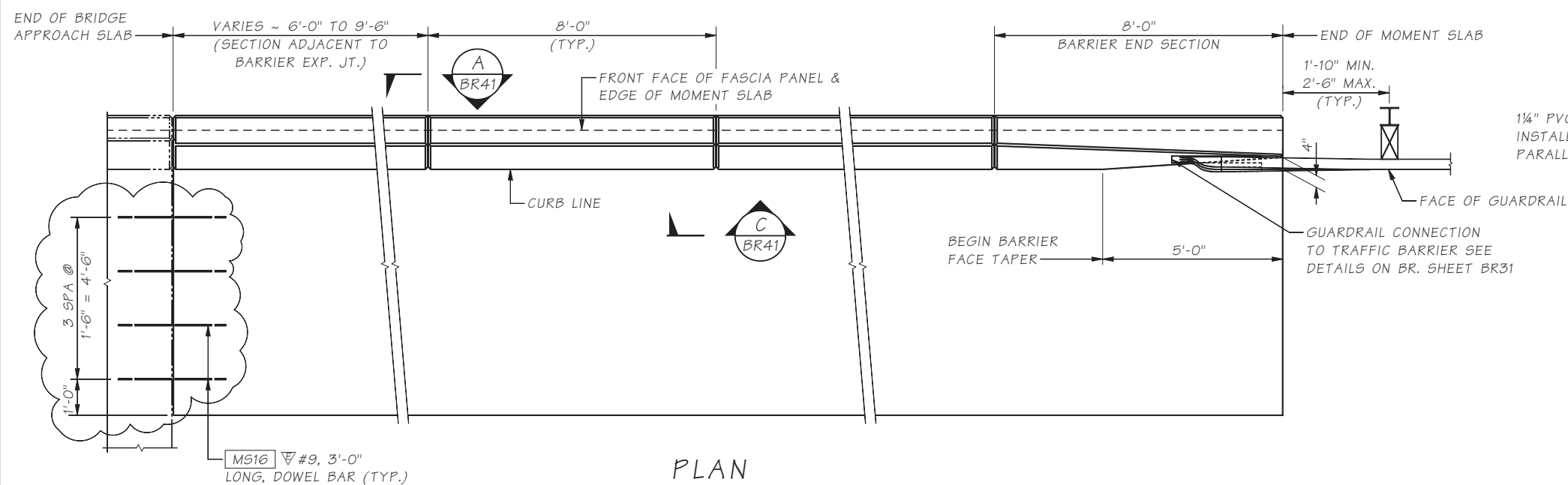


Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

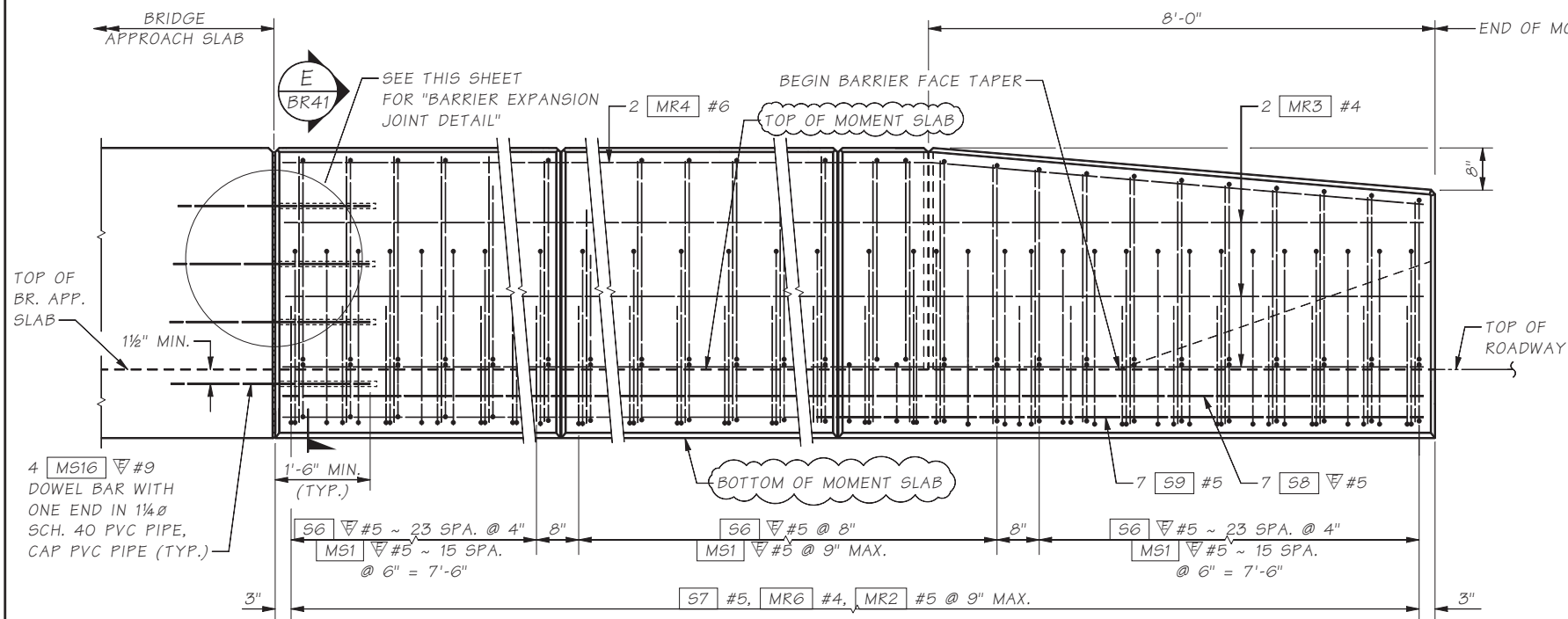
BRIDGE APPROACH SLAB
DETAILS 2 OF 3

BRIDGE SHEET NO.	BR38
SHEET OF	78 OF 100
SUBJECTS	

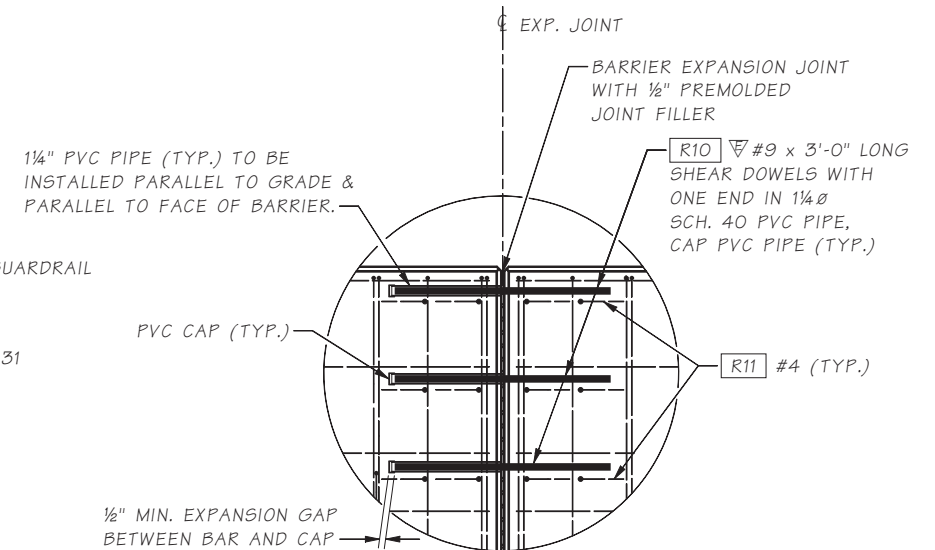


PLAN
TRAFFIC BARRIER WITH MOMENT SLAB
NE AND SW CORNERS

CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.
FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.

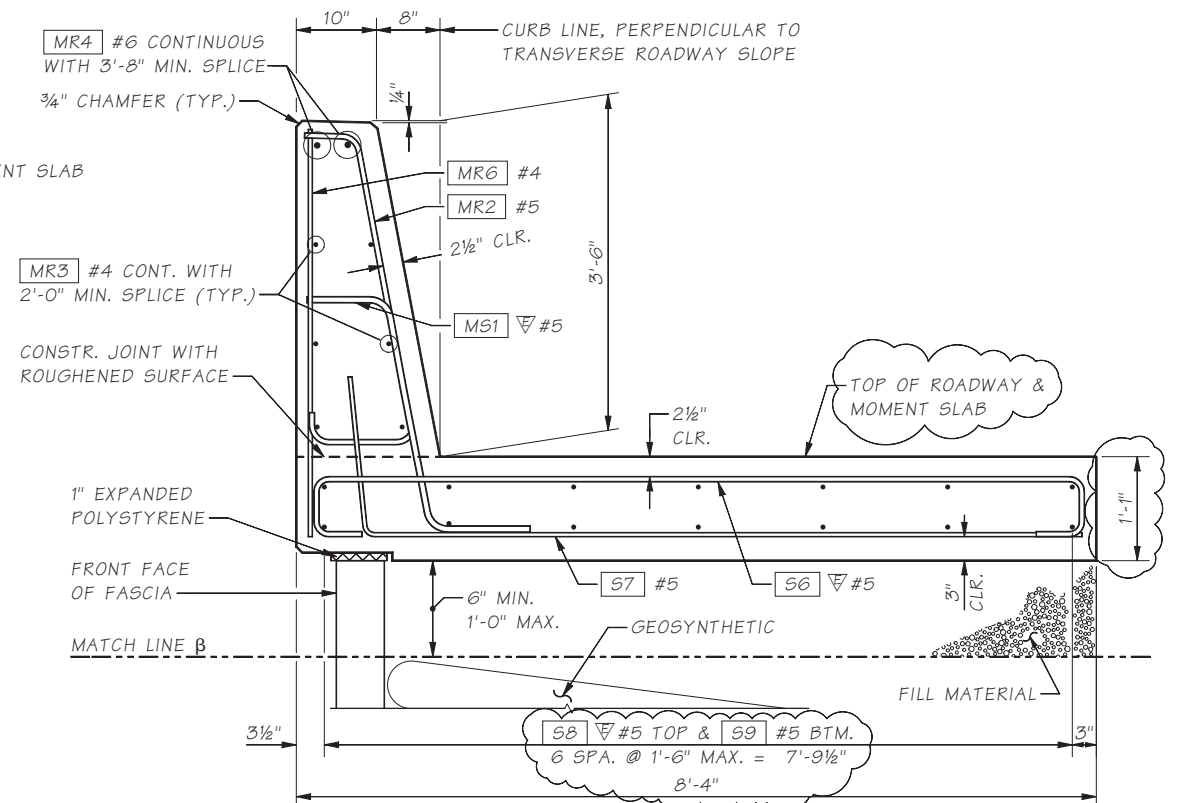


OUTSIDE ELEVATION
TRAFFIC BARRIER WITH MOMENT SLAB



BARRIER EXPANSION JOINT DETAIL

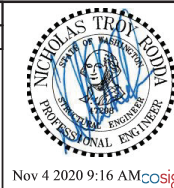
ENSURE THAT NO CONCRETE ENTERS
THE PVC PIPE DURING CONCRETE PLACEMENT



TYPICAL SECTION
TRAFFIC BARRIER WITH MOMENT SLAB

β - FOR STRUCTURAL DETAILS BELOW THE MATCH LINE,
SEE STANDARD PLANS D-3.09, D-3.10 OR D-3.11.

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\AD1 - 040 M SLAB DET1.WND
Supervisor	Rodda, NT	
Designed By	Jaberi, A	01/20
Checked By	Reid, Z	01/20
Detailed By	Davis, E	10/20
Bridge Projects Engr.		
Prelim. Plan By		11/18/20 AD2 - UPDATED DETAILS
Architect/Specialist		DATE REVISION
		BY APP'D



Nov 4 2020 9:16 AM cosigr

BRIDGE
AND
STRUCTURES
OFFICE



Khaleghi, Bijan
Nov 4 2020 10:14 AM cosigr



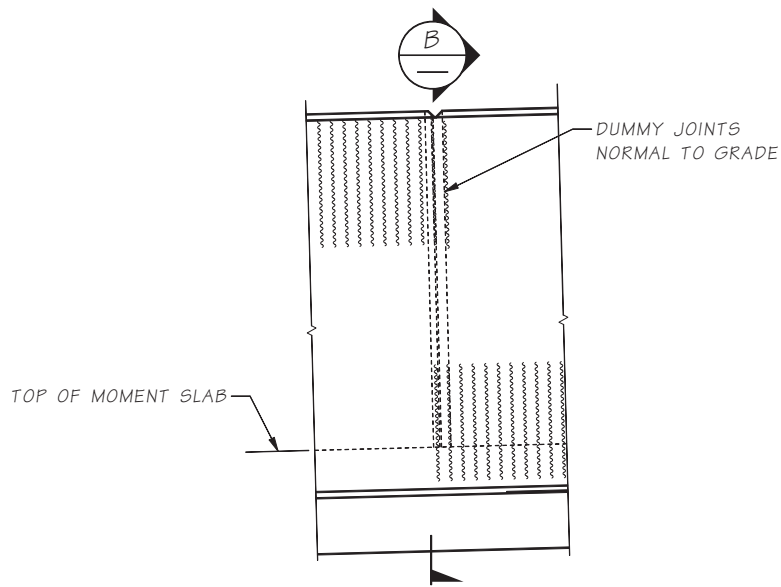
Washington State
Department of Transportation

SR 164
PUSSYFOOT CREEK
FISH PASSAGE
NEW BRIDGE NO. 164/25

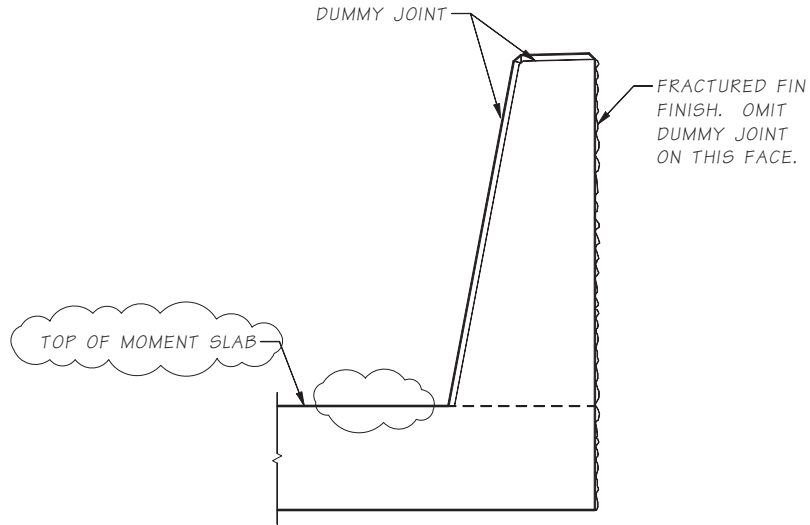
GEOSYNTHETIC WALL - SINGLE SLOPE
TRAFFIC BARRIER DETAILS 1 OF 2

BRIDGE
SHEET
NO.
BR40
SHEET
80
OF
100
SHEETS

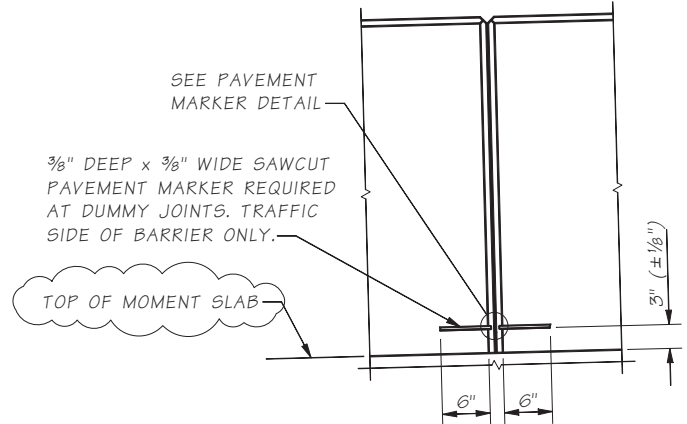
SR 164 FILE NO. SHEET BR41



VIEW A
BR40

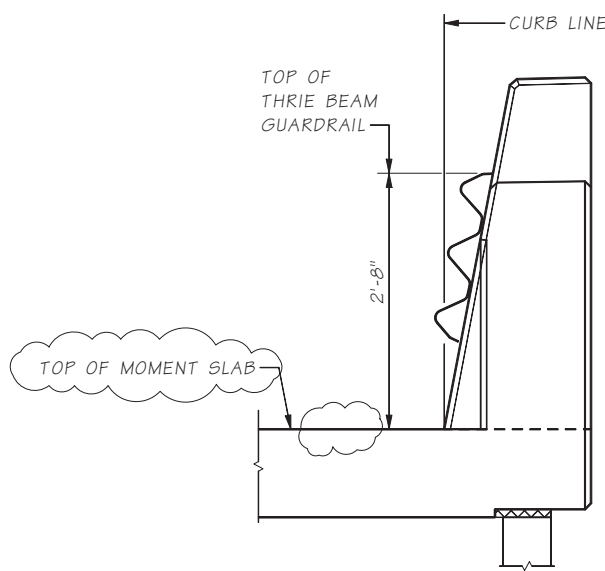
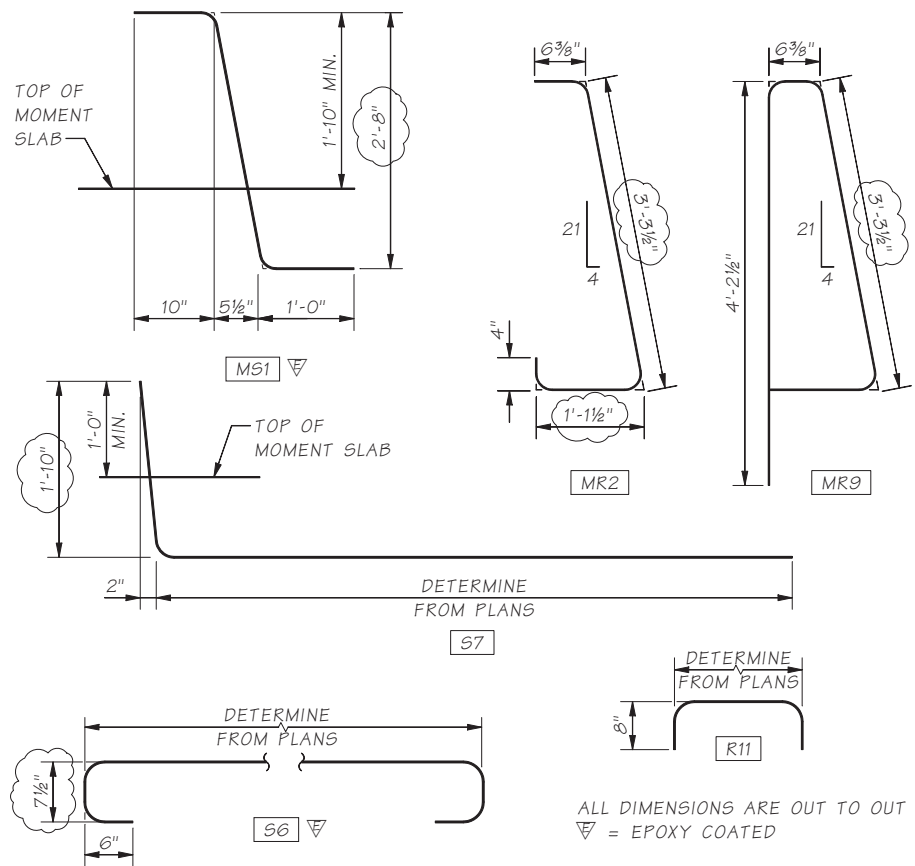


SECTION B
—

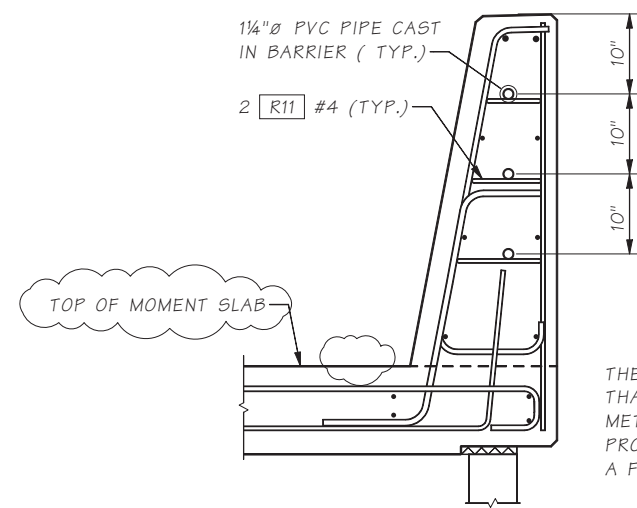


VIEW C
BR40

BENDING DIAGRAM

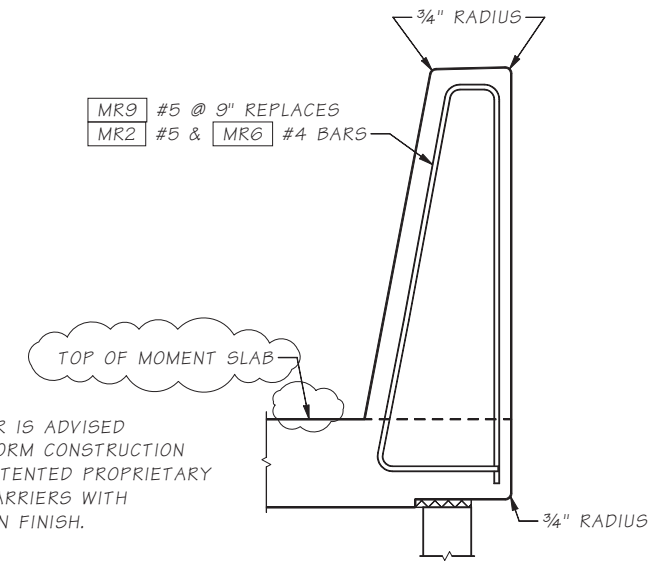


END VIEW
THRIE BEAM SHOWN
WITH "F" CONNECTION
(SEE STD. PLAN C-7a)



SECTION E
BR40

TYPICAL AT ALL EXPANSION JOINTS
INCLUDING JOINT BETWEEN TRAFFIC
BARRIER OR TRAFFIC BARRIER WITH
MOMENT SLAB AND APPROACH SLAB BARRIER.



SLIPFORM
ALTERNATE

SEE "TYPICAL SECTION - TRAFFIC BARRIER
WITH MOMENT SLAB" FOR ADDITIONAL DETAILS.

Bridge Design Engr.	Khaleghi, B	M:\W-Team\SR 164 PUSSYFOOT CREEK\SR 164 PUSSYFOOT CR>window files\AD1 - 041 M SLAB DET2.WND
Supervisor	Rodda, NT	
Designed By	Jaberi, A	01/20
Checked By	Reid, Z	01/20
Detailed By	Davis, E	01/20
Bridge Projects Engr.		
Prelim. Plan By	11/18/20	AD2 - REMOVED CALLOUTS, UPDATED BEND. DIAGR.
Architect/Specialist	DATE	REVISION
	BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER		CONTRACT NO.		
19A031				



BRIDGE
AND
STRUCTURES
OFFICE

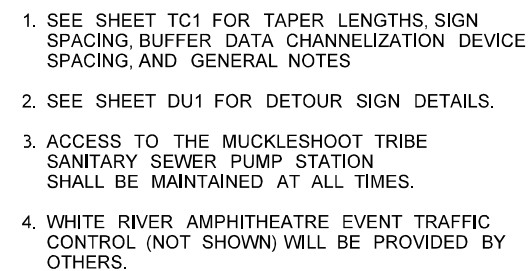


SR 164 PUSSYFOOT CREEK FISH PASSAGE NEW BRIDGE NO. 164/25	BRIDGE SHEET NO. BR41
GEOSYNTHETIC WALL - SINGLE SLOPE TRAFFIC BARRIER DETAILS 2 OF 2	SHEET 81 OF 100 SHEETS

S = Bar is included in substructure quantities.													E = Bar is to be epoxy coated.													V = Bar dimensions vary between dimensions shown on this line and the following line.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
L = Lump sum quantity.													T = Transverse or S = Seismic																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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FIELD LOCATE 1 MILE (+-) IN
ADVANCE OF CLOSURE

NOT TO SCALE

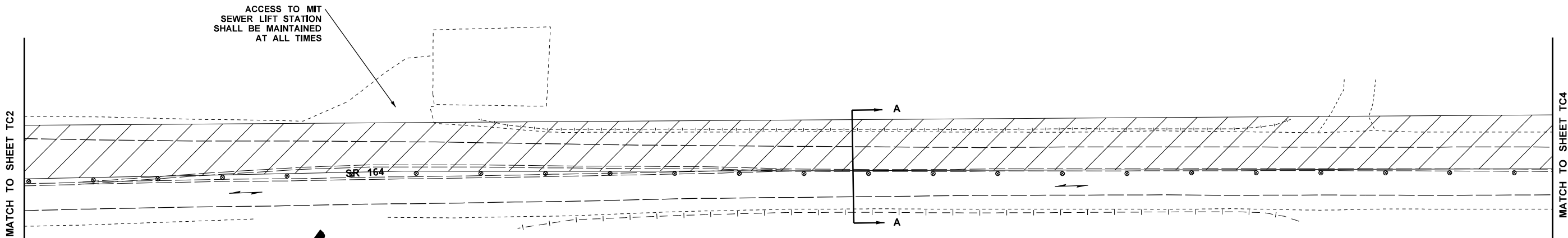
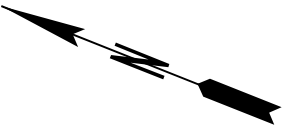


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TIME	7:18:13 AM					10	WASH	
DATE	10/12/2020					JOB NUMBER 19A031		
PLOTTED BY	rlillinm					CONTRACT NO.		
DESIGNED BY	M. RILLING					LOCATION NO.		
ENTERED BY	M. RILLING							
CHECKED BY	B. ALLEN							
PROJ. ENGR.	N. PEN							
REGIONAL ADM.	M. COTTEN		REVISION	DATE	BY			



TRAFFIC CONTROL PLAN

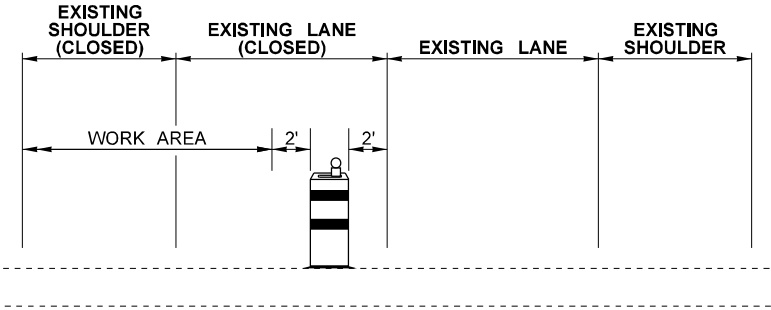
SHEET
84
OF
100
SHEETS



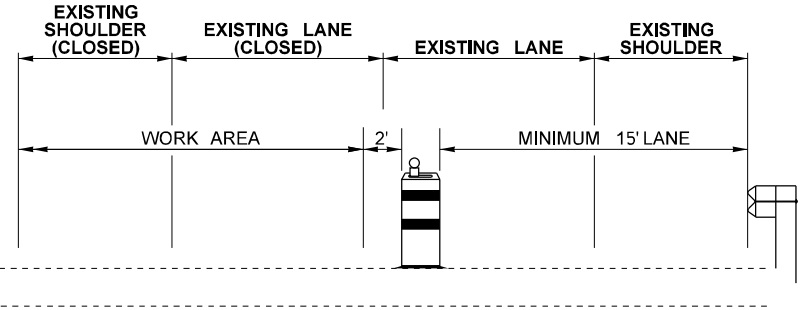
**SR 164 WESTBOUND SINGLE LANE CLOSURE
(ALTERNATING ONE WAY TRAFFIC)**

NOT TO SCALE

- NOTES:
- 1. SEE SHEET TC1 FOR TAPER LENGTHS, SIGN SPACING, BUFFER DATA CHANNELIZATION DEVICE SPACING, AND GENERAL NOTES
 - 2. SEE SHEET DU1 FOR DETOUR SIGN DETAILS.
 - 3. ACCESS TO THE MUCKLESHOOT TRIBE SANITARY SEWER PUMP STATION SHALL BE MAINTAINED AT ALL TIMES.
 - 4. WHITE RIVER AMPHITHEATRE EVENT TRAFFIC CONTROL (NOT SHOWN) WILL BE PROVIDED BY OTHERS.



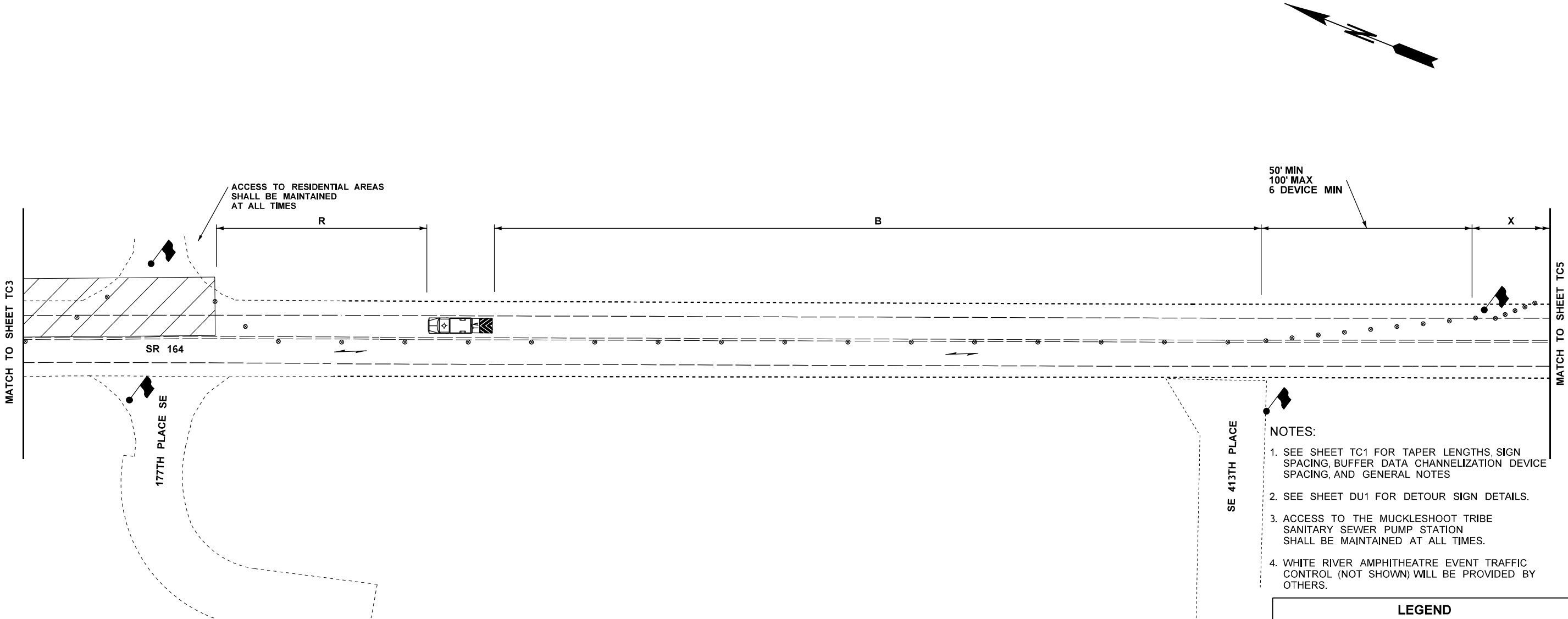
**SECTION A
(NO SHIFT TYP.)**



**SECTION A
(WITH SHIFT TYP.)**

LEGEND	
	TRAFFIC SAFETY DRUM
	CONSTRUCTION SIGNS CLASS A
	CONSTRUCTION SIGNS CLASS B
	FLAGGING STATION
	TRANSPORTABLE ATTENUATOR
	PORTABLE CHANGEABLE MESSAGE SIGN
	TYPE III BARRICADE WITH TYPE C LIGHTS
	TRAFFIC MOVEMENT ARROW
	WORK ZONE

FILE NAME c:\users\rillinn\pw_wsdot\0122211\XL5186_PS_TC-DU.dgn		REGION NO. 10		STATE WASH	FED.AID PROJ.NO.					SR 164 PUSSYFOOT CREEK FISH PASSAGE	PLAN REF NO TC3
TIME 7:18:13 AM											
DATE 10/12/2020					JOB NUMBER 19A031	LOCATION NO.				TRAFFIC CONTROL PLAN	SHEET 85 OF 100 SHEETS
PLOTTED BY rillinn											
DESIGNED BY M. RILLING					CONTRACT NO.						
ENTERED BY M. RILLING											
CHECKED BY B. ALLEN					DATE						
PROJ. ENGR. N. PEN											
REGIONAL ADM. M. COTTEN	REVISION	DATE	BY		P.E. STAMP BOX	P.E. STAMP BOX					



SR 164 WESTBOUND SINGLE LANE CLOSURE
(ALTERNATING ONE WAY TRAFFIC)
NOT TO SCALE

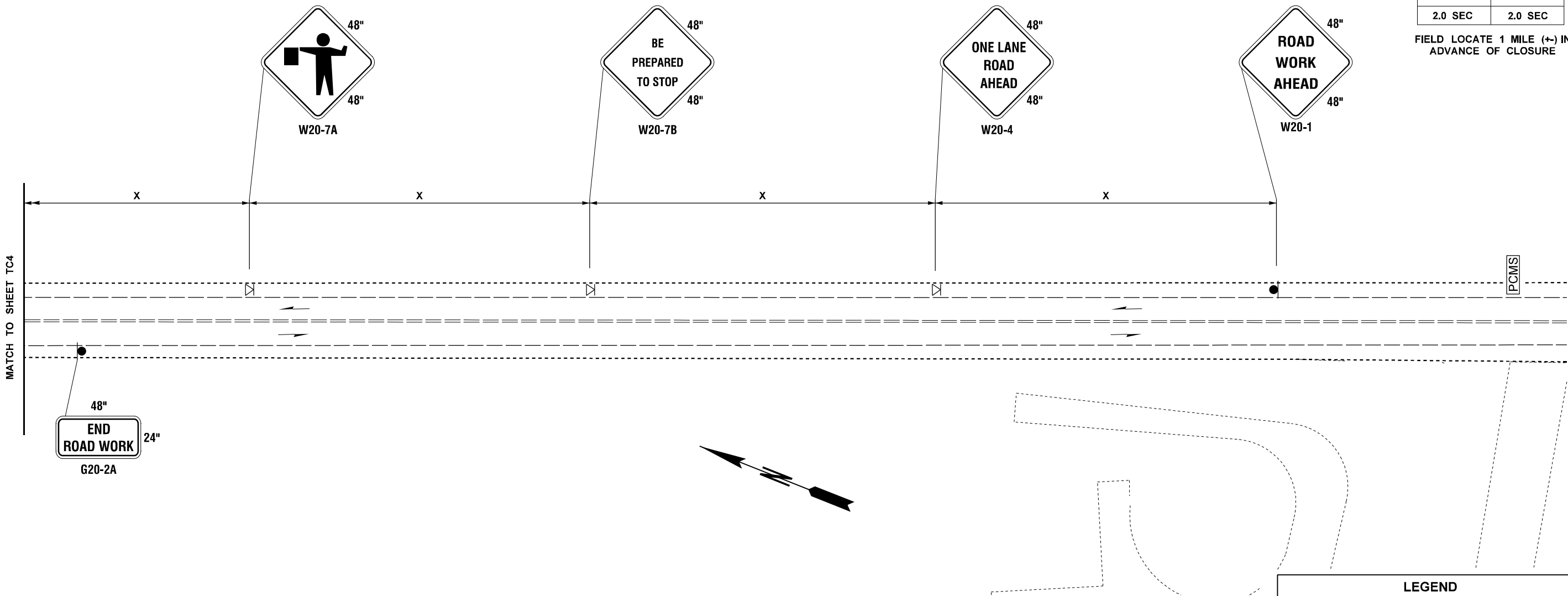
- NOTES:
- SEE SHEET TC1 FOR TAPER LENGTHS, SIGN SPACING, BUFFER DATA CHANNELIZATION DEVICE SPACING, AND GENERAL NOTES
 - SEE SHEET DU1 FOR DETOUR SIGN DETAILS.
 - ACCESS TO THE MUCKLESHOOT TRIBE SANITARY SEWER PUMP STATION SHALL BE MAINTAINED AT ALL TIMES.
 - WHITE RIVER AMPHITHEATRE EVENT TRAFFIC CONTROL (NOT SHOWN) WILL BE PROVIDED BY OTHERS.

LEGEND	
	TRAFFIC SAFETY DRUM
	CONSTRUCTION SIGNS CLASS A
	CONSTRUCTION SIGNS CLASS B
	FLAGGING STATION
	TRANSPORTABLE ATTENUATOR
	PORTABLE CHANGEABLE MESSAGE SIGN
	TYPE III BARRICADE WITH TYPE C LIGHTS
	TRAFFIC MOVEMENT ARROW
	WORK ZONE

FILE NAME 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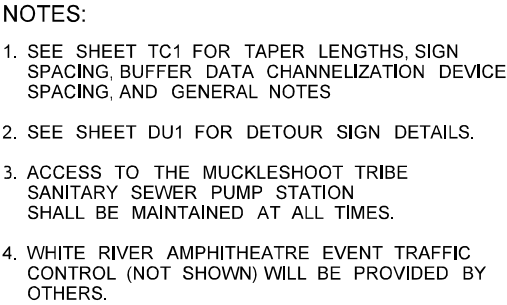
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


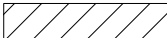
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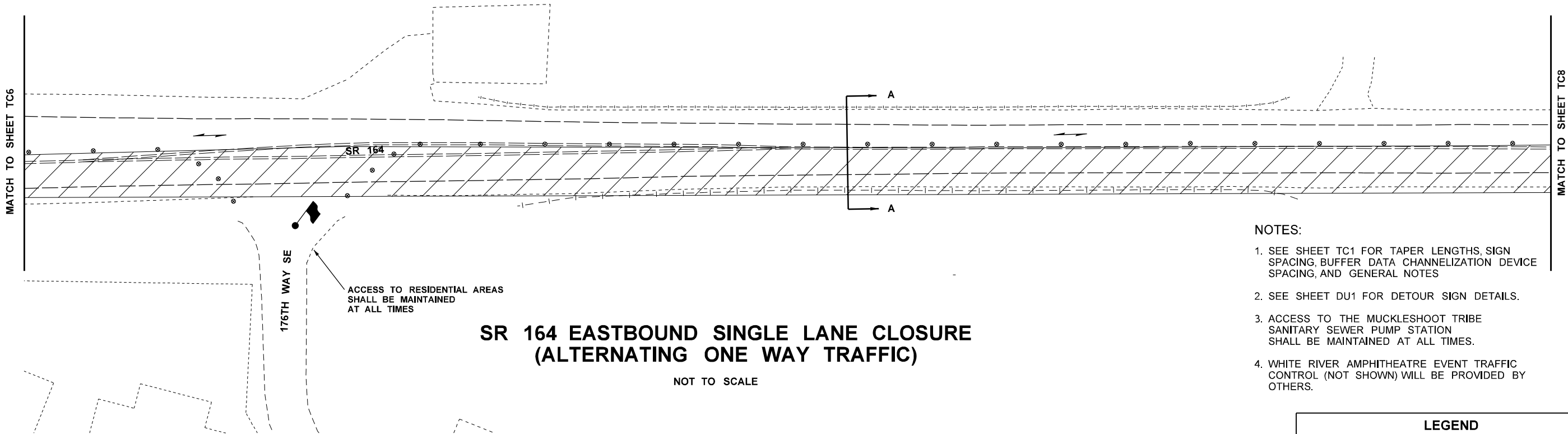
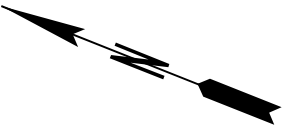
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FIELD LOCATE 1 MILE (+-) IN
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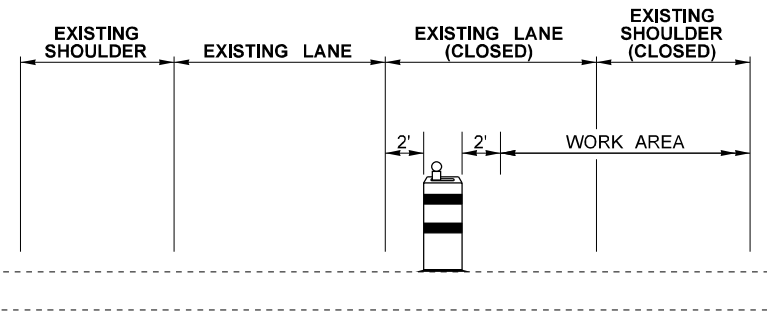
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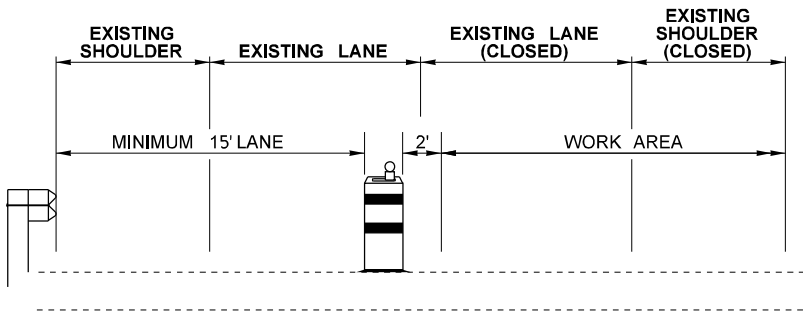
- NOTES:
- 1. SEE SHEET TC1 FOR TAPER LENGTHS, SIGN SPACING, BUFFER DATA CHANNELIZATION DEVICE SPACING, AND GENERAL NOTES
 - 2. SEE SHEET DU1 FOR DETOUR SIGN DETAILS.
 - 3. ACCESS TO THE MUCKLESHOOT TRIBE SANITARY SEWER PUMP STATION SHALL BE MAINTAINED AT ALL TIMES.
 - 4. WHITE RIVER AMPHITHEATRE EVENT TRAFFIC CONTROL (NOT SHOWN) WILL BE PROVIDED BY OTHERS.

SR 164 EASTBOUND SINGLE LANE CLOSURE
(ALTERNATING ONE WAY TRAFFIC)

NOT TO SCALE



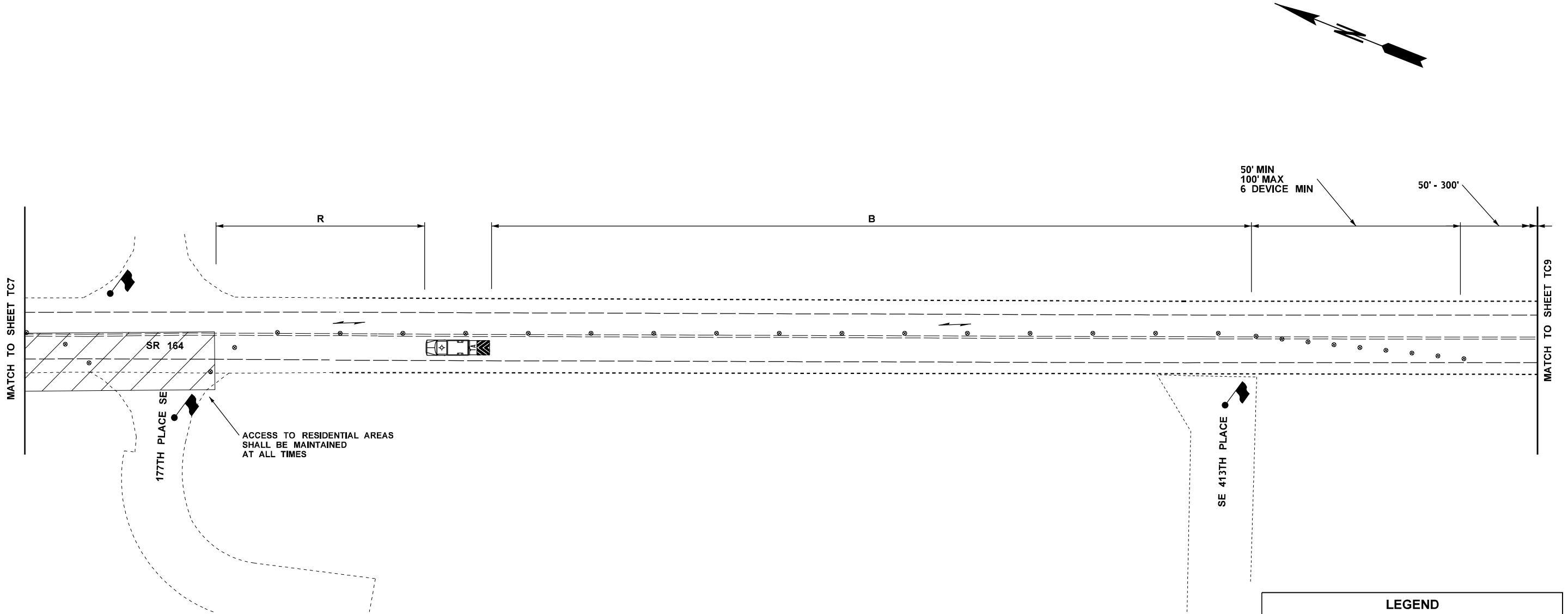
SECTION A
(NO SHIFT TYP.)



SECTION A
(WITH SHIFT TYP.)

LEGEND	
	TRAFFIC SAFETY DRUM
	CONSTRUCTION SIGNS CLASS A
	CONSTRUCTION SIGNS CLASS B
	FLAGGING STATION
	TRANSPORTABLE ATTENUATOR
	PORTABLE CHANGEABLE MESSAGE SIGN
	TYPE III BARRICADE WITH TYPE C LIGHTS
	TRAFFIC MOVEMENT ARROW
	WORK ZONE

FILE NAME c:\users\rillinn\pw_wsdot\0122211\XL5186_PS_TC-DU.dgn		REGION NO. 10		STATE WASH		FED.AID PROJ.NO.				SR 164		PLAN REF NO.
TIME 7:18:15 AM										PUSSYFOOT CREEK		TC7
DATE 10/12/2020								Washington State Department of Transportation		FISH PASSAGE		SHEET 89 OF 100 SHEETS
PLOTTED BY rillinn										TRAFFIC CONTROL PLAN		
DESIGNED BY M. RILLING								DATE		DATE		
ENTERED BY M. RILLING												
CHECKED BY B. ALLEN								P.E. STAMP BOX		P.E. STAMP BOX		
PROJ. ENGR. N. PEN								DATE		DATE		
REGIONAL ADM. M. COTTEN								P.E. STAMP BOX		P.E. STAMP BOX		
REVISION		DATE		BY		CONTRACT NO.		LOCATION NO.				
						JOB NUMBER 19A031						

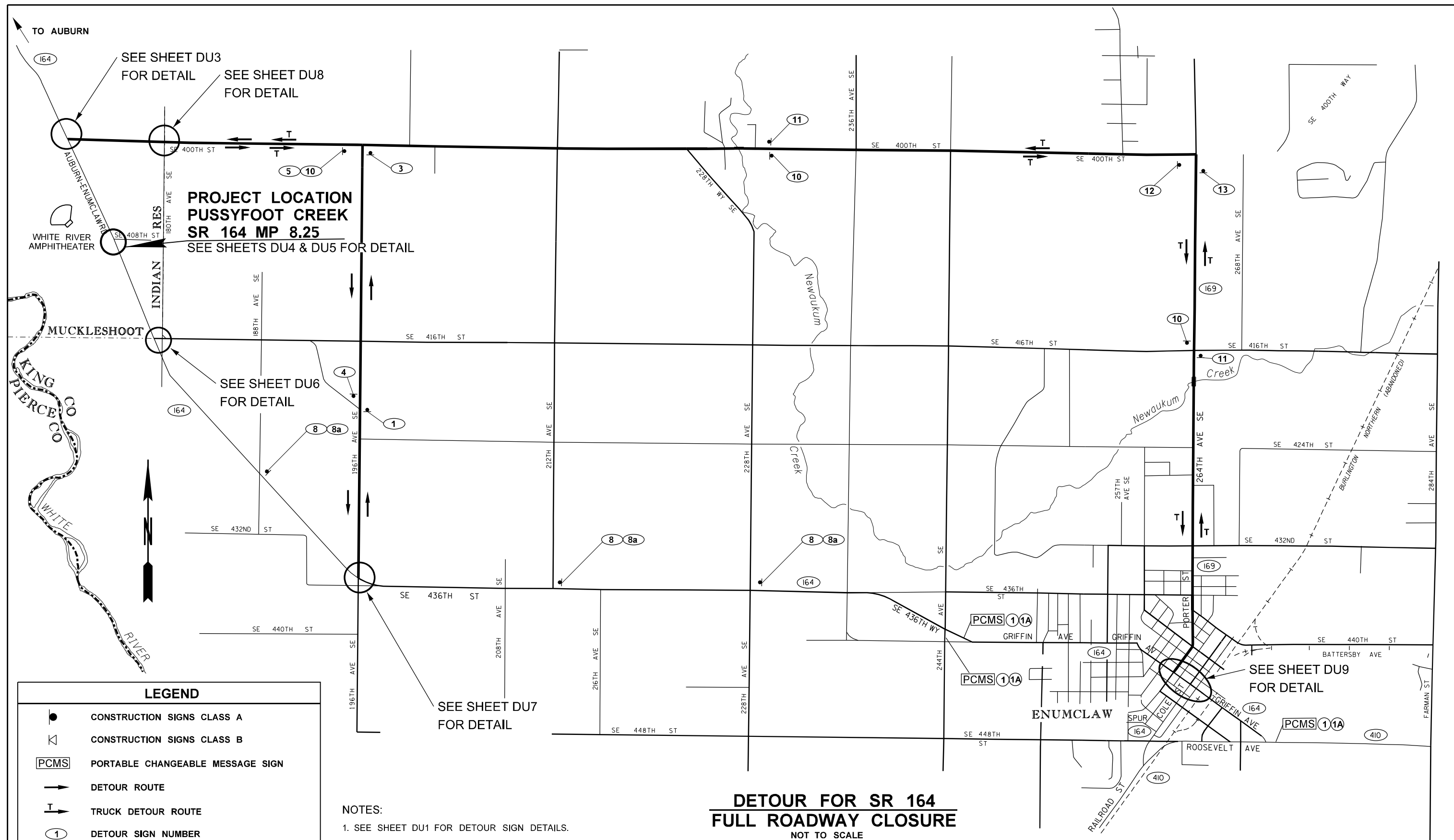



SR 164 EASTBOUND SINGLE LANE CLOSURE
(ALTERNATING ONE WAY TRAFFIC)
NOT TO SCALE

- NOTES:
- SEE SHEET TC1 FOR TAPER LENGTHS, SIGN SPACING, BUFFER DATA CHANNELIZATION DEVICE SPACING, AND GENERAL NOTES
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LEGEND	
	TRAFFIC SAFETY DRUM
	CONSTRUCTION SIGNS CLASS A
	CONSTRUCTION SIGNS CLASS B
	FLAGGING STATION
	TRANSPORTABLE ATTENUATOR
	PORTABLE CHANGEABLE MESSAGE SIGN
	TYPE III BARRICADE WITH TYPE C LIGHTS
	TRAFFIC MOVEMENT ARROW
	WORK ZONE

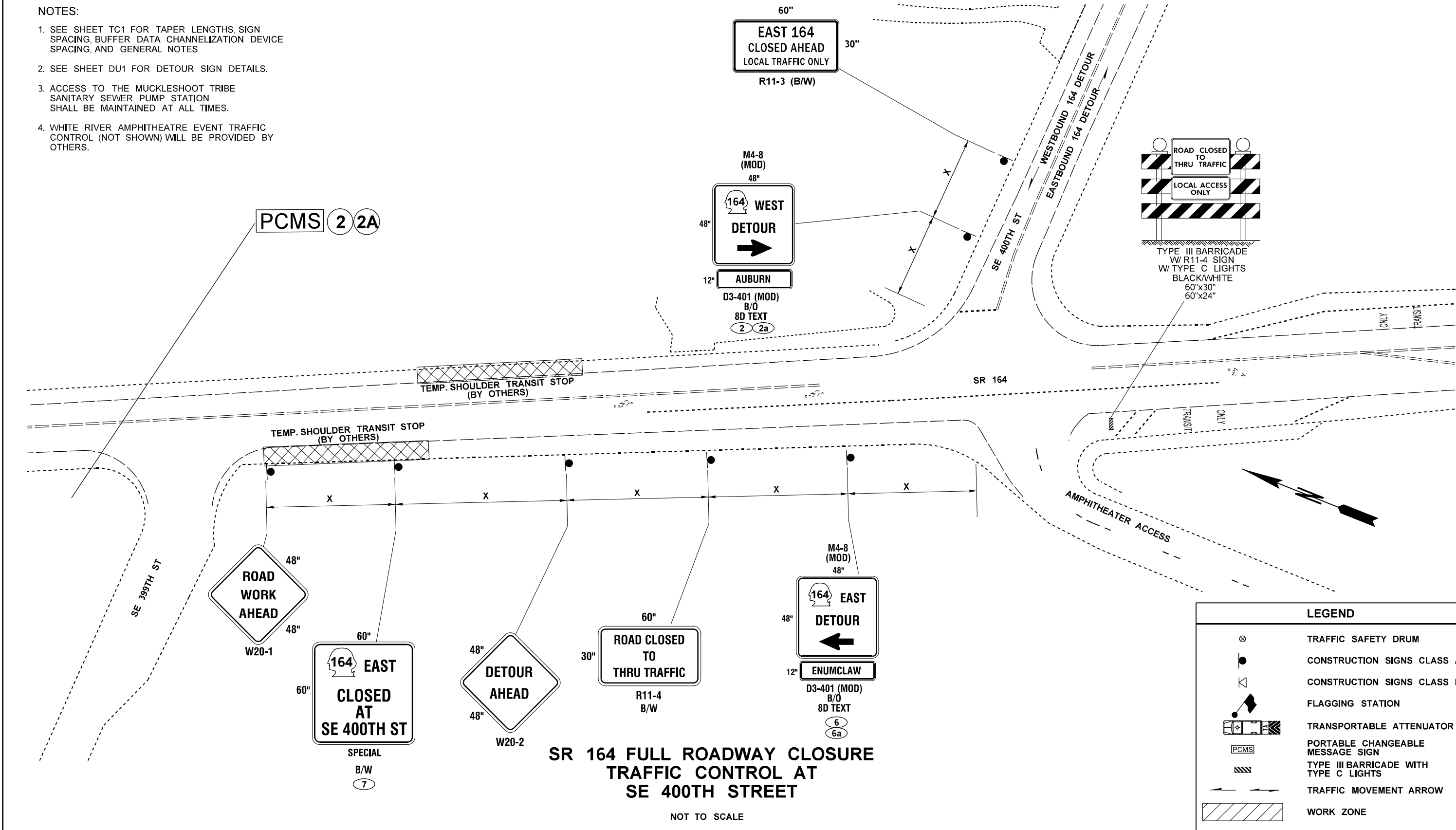
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TIME	7:18:16 AM					REGION NO.	STATE	FED.AID PROJ.NO.													
DATE	10/12/2020					10	WASH													PLAN REF NO	
PLOTTED BY	rillinn					JOB NUMBER 19A031		LOCATION NO.												TC8	
DESIGNED BY	M. RILLING																			SHEET	
ENTERED BY	M. RILLING					CONTRACT NO.												90			
CHECKED BY	B. ALLEN																	OF			
PROJ. ENGR.	N. PEN																	100			
REGIONAL ADM.	M. COTTEN																	SHEETS			
		REVISION		DATE		BY						P.E. STAMP BOX		DATE							
												</									



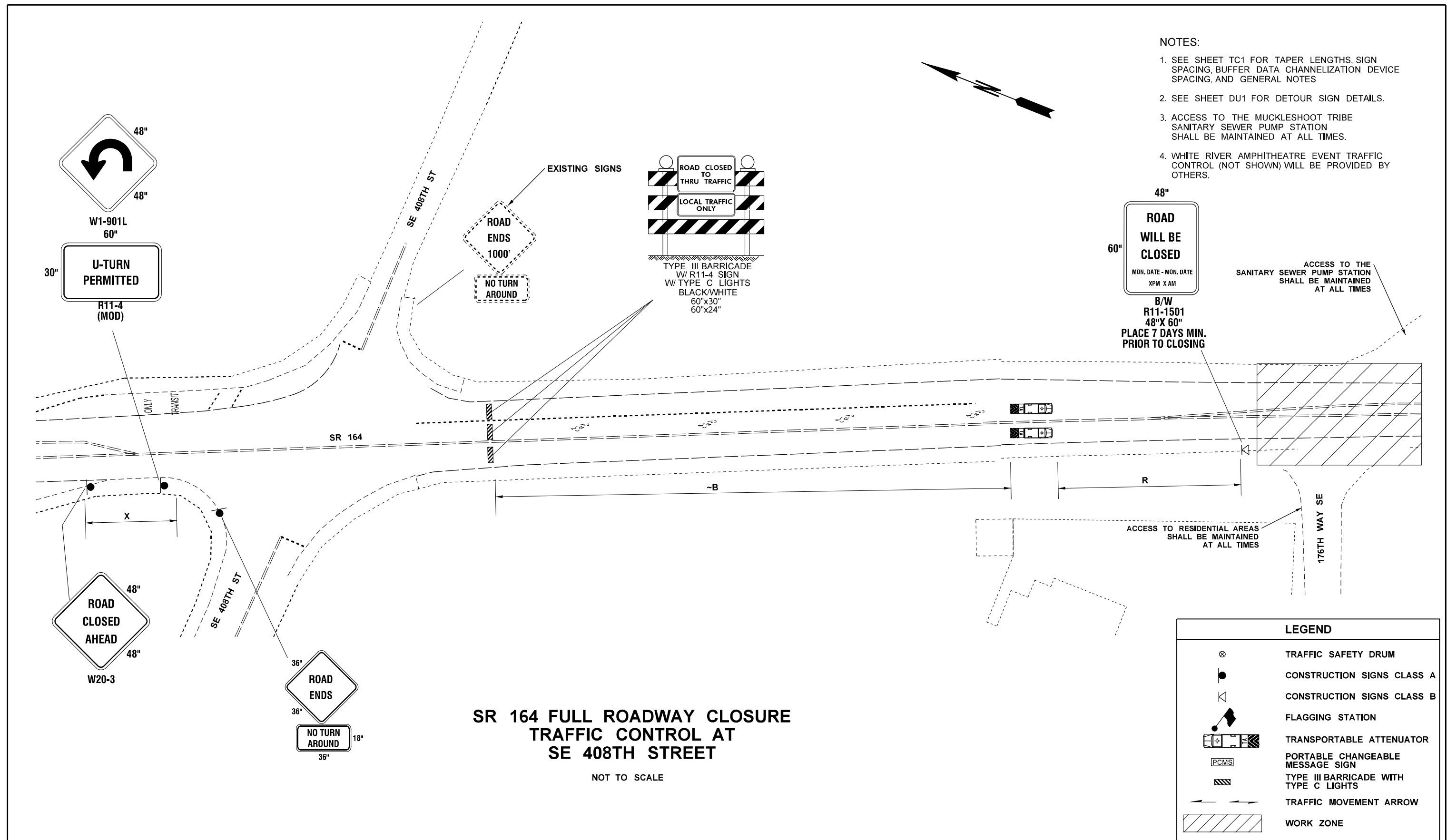
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TIME	7:18:17 AM					REGION NO.	STATE	FED.AID PROJ.NO.			
DATE	10/12/2020					10	WASH				
PLOTTED BY	trillinm					JOB NUMBER					
DESIGNED BY	M. RILLING					19A031		LOCATION NO.			
ENTERED BY	M. RILLING					CONTRACT NO.					
CHECKED BY	B. ALLEN										
PROJ. ENGR.	N. PEN							<div style="display: flex; justify-content: space-around;"> <div>  <p>Washington State Department of Transportation</p> </div> <div> <p>SR 164 PUSSYFOOT CREEK FISH PASSAGE</p> </div> <div> <p>PLAN REF NO DU2</p> </div> </div>			
REGIONAL ADM.	M. COTTEN										
REVISION								<div style="display: flex; justify-content: space-around;"> <div> <p>P.E. STAMP BOX</p> <p>DATE</p> </div> <div> <p>P.E. STAMP BOX</p> <p>DATE</p> </div> </div>			
DATE								<div style="display: flex; justify-content: space-around;"> <div> <p>SHEET 93 OF 100 SHEETS</p> </div> <div> <p>DETOUR PLAN</p> </div> </div>			

NOTES:

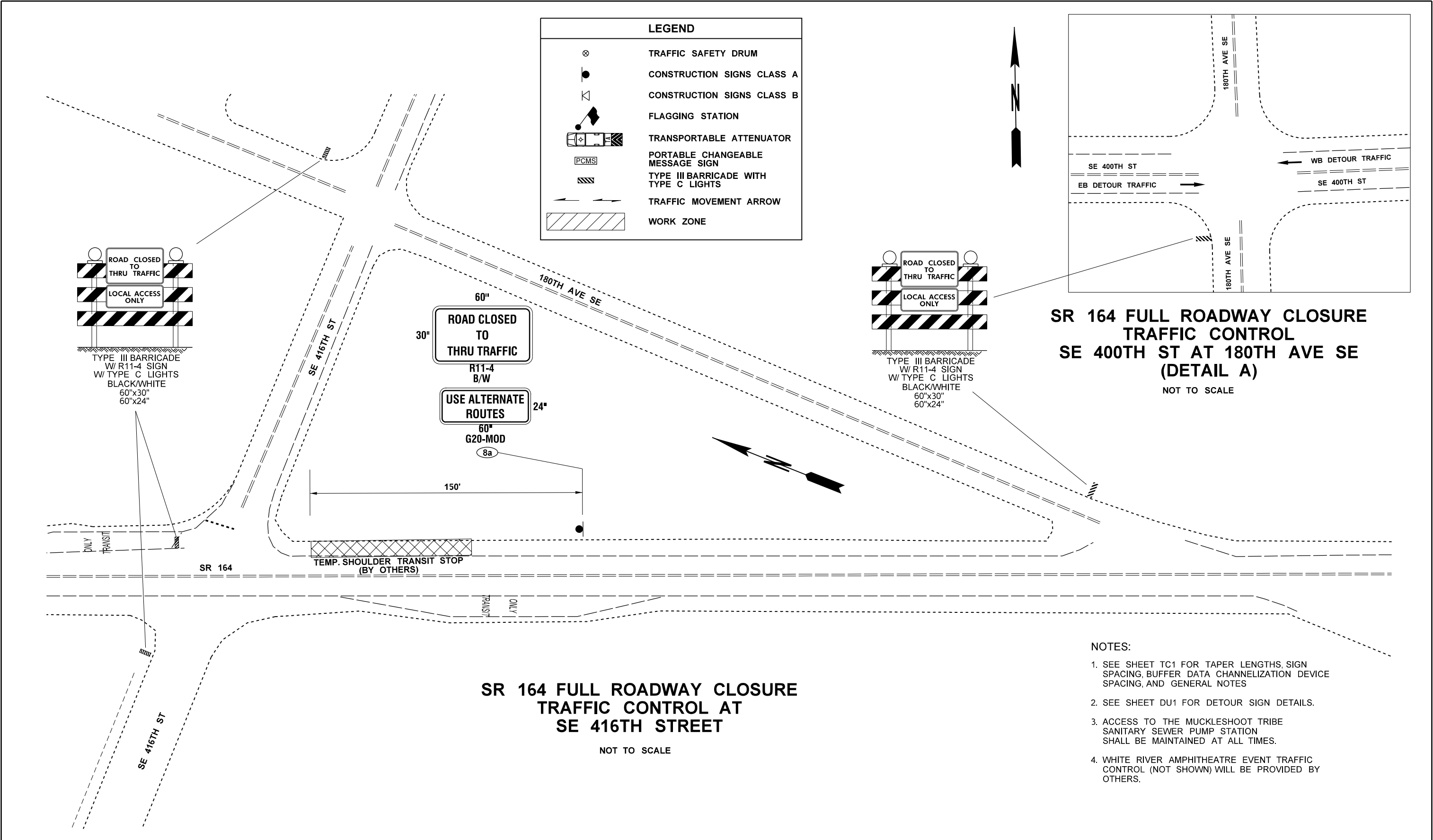
- SEE SHEET TC1 FOR TAPER LENGTHS, SIGN SPACING, BUFFER DATA CHANNELIZATION DEVICE SPACING, AND GENERAL NOTES
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FILE 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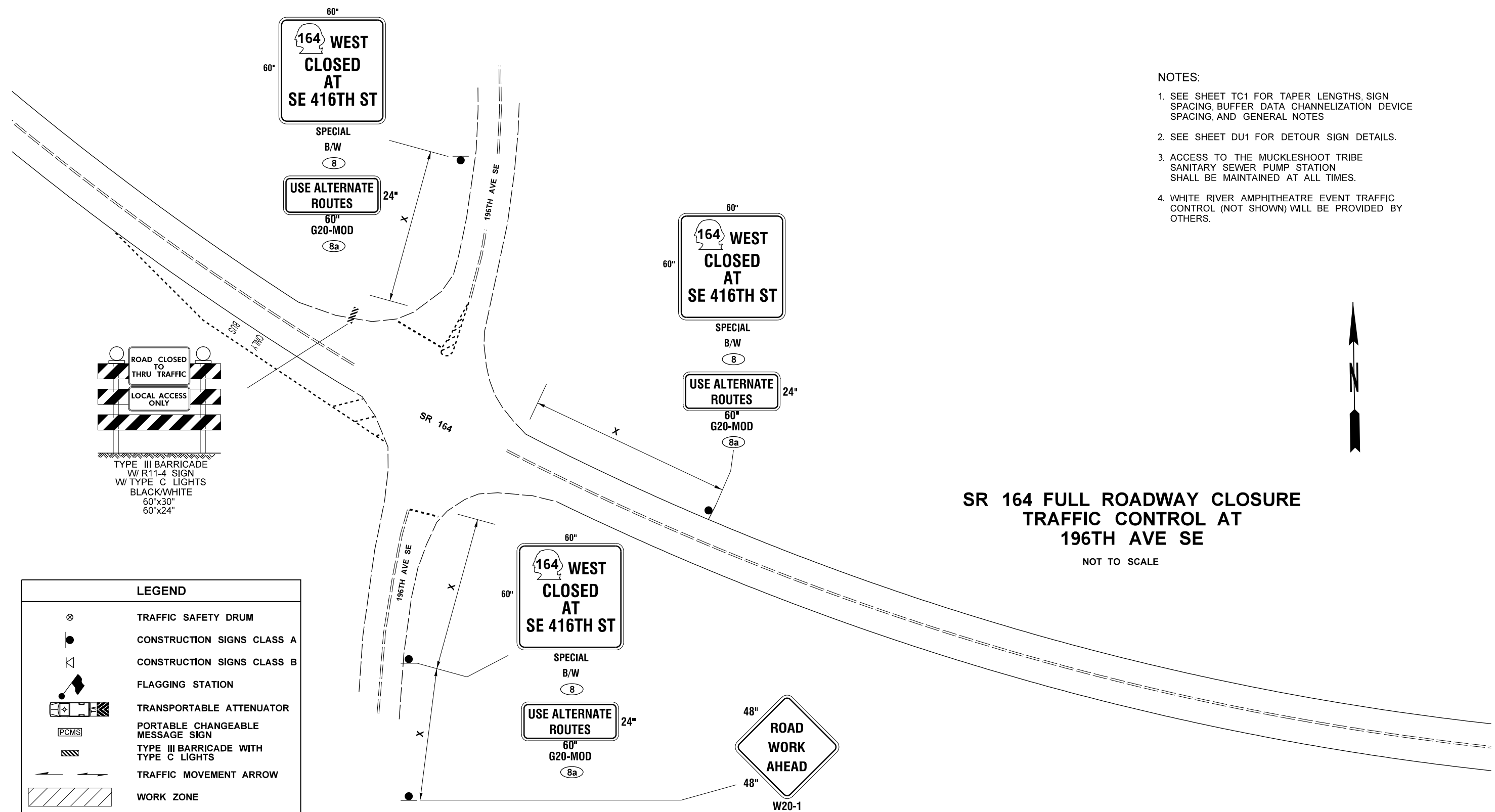
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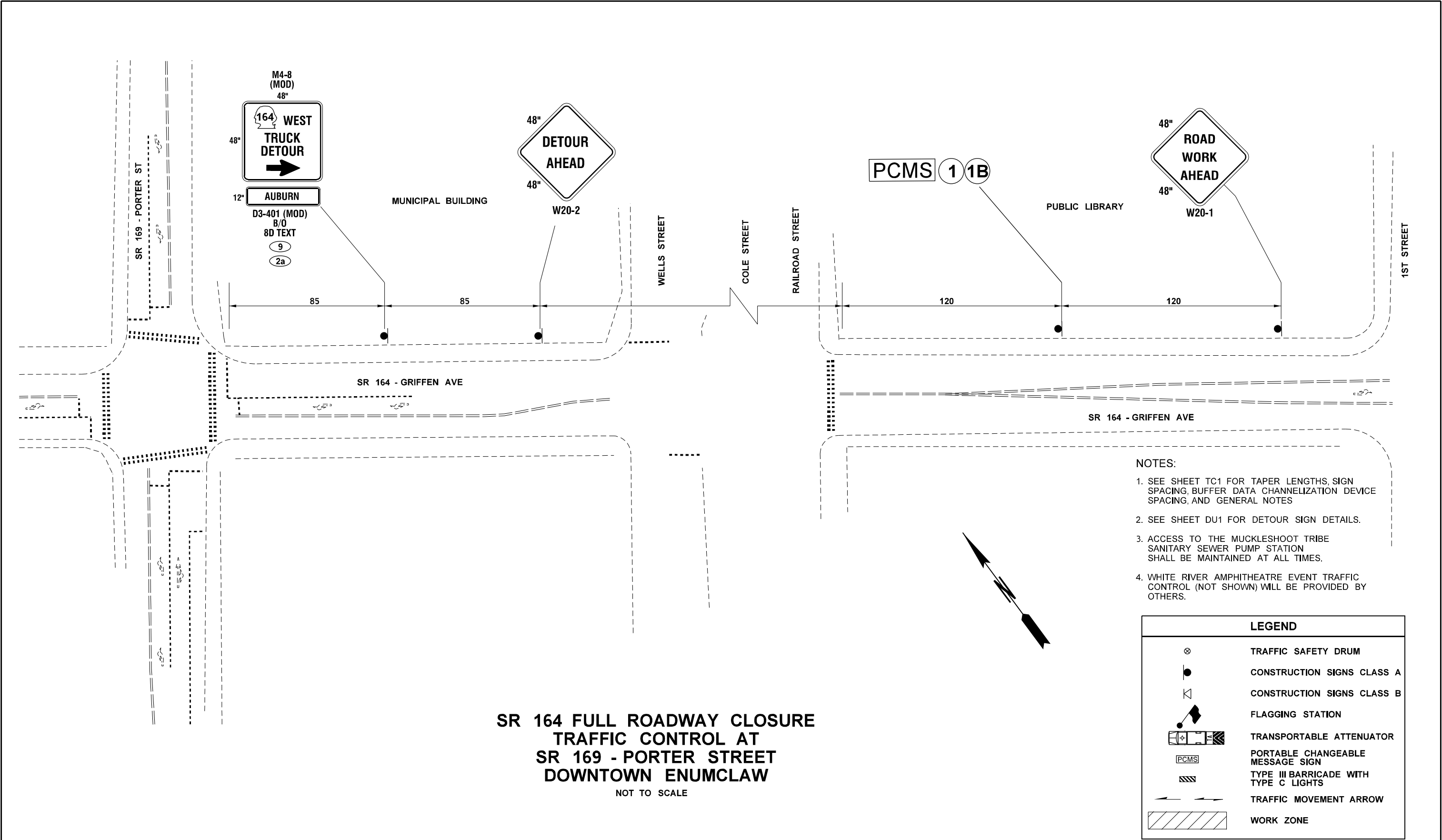
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 - 3. ACCESS TO THE MUCKLESHOOT TRIBE SANITARY SEWER PUMP STATION SHALL BE MAINTAINED AT ALL TIMES.
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