

WALLA WALLA COUNTY
PUBLIC WORKS DEPARTMENT



BLUE CREEK BRIDGE

CRP 15-01

BRS - K364(005)

TA-5753

Commissioners

District 1

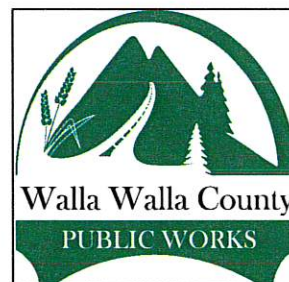
James K. Johnson

District 2

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District 3

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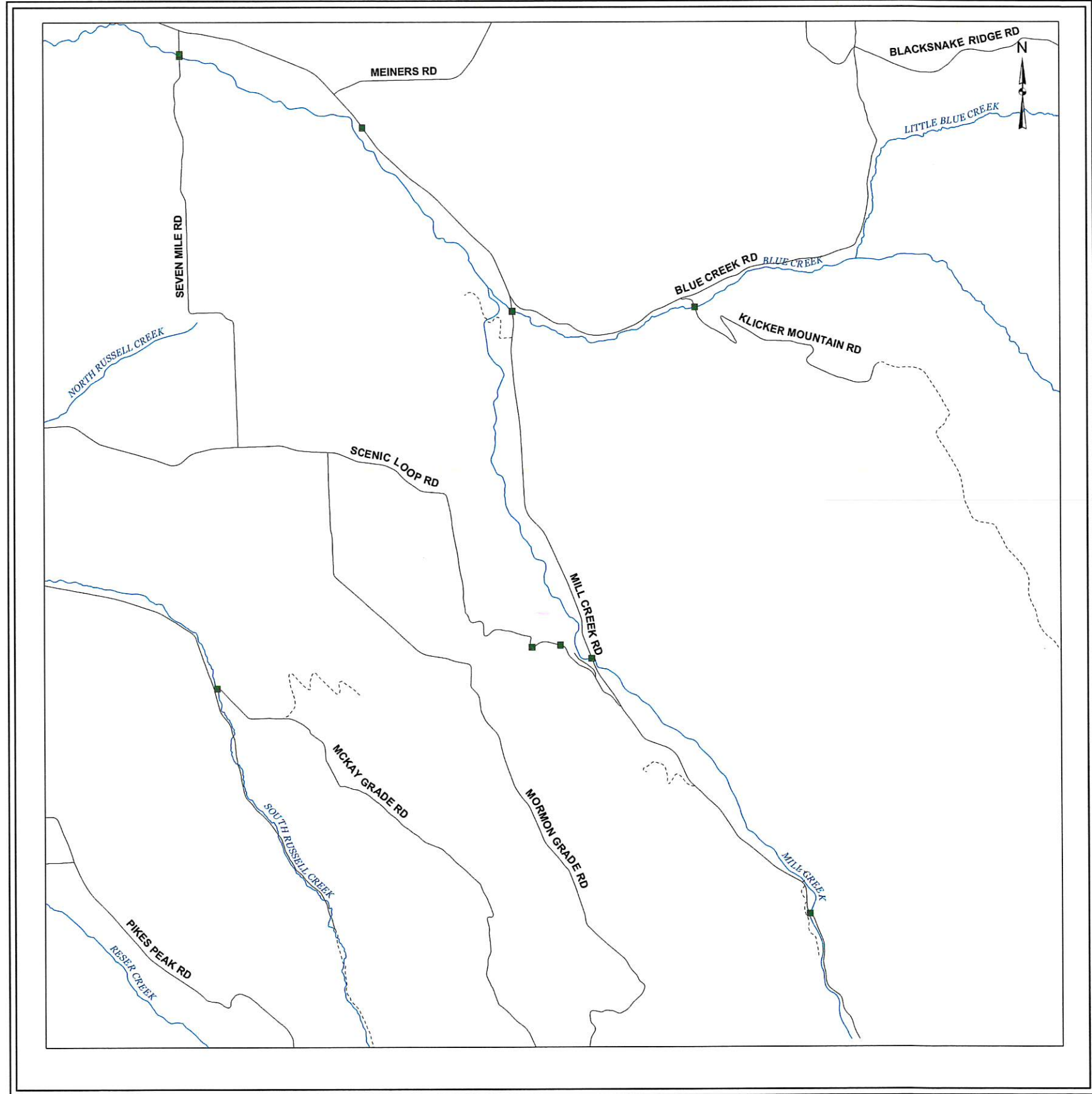
LEGEND

- | | | |
|-----------------------------|------------|----------------------------|
| EXISTING | NEW | |
| | | ANGLE POINT |
| | | BENCH MARK |
| | | BLOCK CORNER |
| | | IRON PIPE |
| | | MONUMENT (IN CASE) |
| | | MONUMENT (SURFACE) |
| | | SECTION CORNER |
| | | QUARTER CORNER |
| | | SIXTEENTH CORNER |
| | | CLOSING CORNER |
| | | SOIL BORING |
| | | MAIL BOX |
| | | SIGN |
| | | TREE (Conifer) |
| | | TREE (Deciduous) |
| | | LIGHT |
| | | TELEPHONE RISER |
| | | UNDERGROUND UTILITY MARKER |
| | | UTILITY POLE |
| | | GUY |
| | | CATCH BASIN |
| | | IRRIGATION RISER |
| UTILITIES (EXISTING) | | |
| | | GAS |
| | | POWER (BURIED) |
| | | SANITARY SEWER |
| | | WATER |
| | | TELEPHONE (BURIED) |
| | | TV (BURIED) |

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. WALLA WALLA COUNTY MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

SHEET NO.	DESCRIPTION
1	VICINITY MAP
2	SUMMARY OF QUANTITIES
3	PLAN AND PROFILE - MILL CREEK RD
4	PLAN AND PROFILE - MILL CREEK RD
5	PLAN AND PROFILE - MILL CREEK RD
6	TYPICAL SECTION - MILL CREEK RD
7	PLAN AND PROFILE - BLUE CREEK RD
8	PLAN AND PROFILE - BLUE CREEK RD
9	TYPICAL SECTION - BLUE CREEK RD
10	PLAN AND PROFILE - DETOUR RD
11	PLAN AND PROFILE - DETOUR RD
12	PLAN AND PROFILE - DETOUR RD
13	APPROACH AND DETAILS
14	APPROACH AND DETAILS
15	APPROACH AND DETAILS
16	APPROACH AND DETAILS
17	APPROACH AND DETAILS
18	APPROACH AND DETAILS
19	APPROACH AND DETAILS
20	PONDS #1 - #3
21	PONDS #4 - #8
22	POND #9 & CHECK DAMS
B1	BRIDGE LAYOUT
F1	PILE LAYOUT
F2	ABUTMENT
F3	WINGWALL DETAILS
F4	WINGWALL
S1	GIRDER DETAILS 1
S2	GIRDER DETAILS 2
S3	GIRDER DETAILS 3
S4	DECK AND FRAMING PLAN
S5	DIAPHRAMS
S6	BAR LIST
TB1	TRAFFIC BARRIER
BP1	BANK PROTECTION
BP2	BANK PROTECTION DETAIL
BP3	BANK PROTECTION @ WINGWALLS
T1	TRAFFIC CONTROL PLAN
T2	TRAFFIC CONTROL DETAILS
T3	TRAFFIC CONTROL DETAILS
R1	RIGHT-OF-WAY
R2	RIGHT-OF-WAY

ABBREVIATION LIST
 BH = BORING HOLE
 CB = CATCH BASIN
 SD = STORM DRAIN



DRAWN: SAH					
DESIGNER: SAH					
CHECKED: TGM					
PROJ. ENG.: DFE					
APPROVED BY: TGM					
6/14/2017	REV DATE	REVISION	BY	APP'D	

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER		BRS-K364(005) TA-5753
15-01		



Walla Walla County
 PUBLIC WORKS DEPARTMENT
 10/19/2017
 PLOT DATE



BLUE CREEK BRIDGE	
VICINITY MAP	SHEET 1

SUMMARY OF QUANTITIES

ITEM NO	ITEM DESCRIPTION	TOTAL QUANTITY	UNITS	MILL CREEK ROAD	BLUE CREEK BRIDGE
PREPARATION					
1	MOBILIZATION	1.00	LS	0.63	0.37
2	CLEARING AND GRUBBING	14.84	ACRE	10.50	4.34
3	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00	LS	1.00	
4	REMOVING DRAINAGE STRUCTURE	11.00	EA	6.00	5.00
5	REMOVING EXISTING BRIDGE - MILL CREEK BRIDGE	1.00	LS	1.00	
6	REMOVING EXISTING BRIDGE - BLUE CREEK BRIDGE	1.00	LS		1.00
7	DEWATERING PROJECT AREA	1.00	LS	1.00	
8	REMOVING GUARDRAIL	1,601.00	LF	313.00	1,288.00
9	REMOVING MISC. TRAFFIC ITEM	29.00	EA	11.00	18.00
10	REMOVING EXISTING FENCE	7,850.00	LF	7,250.00	600.00
11	TEMPORARY DETOUR FENCE	300.00	LF		300.00
GRADING					
12	ROADWAY EXCAVATION INCL. HAUL	49,165.00	CY	14,718.00	34,447.00
13	UNSATURABLE FOUNDATION EXCAVATION INCL. HAUL	800.00	CY	400.00	400.00
14	CONTROLLED BLASTING OF ROCK FACE	800.00	LF	800.00	
15	COMMON BORROW INCL. HAUL	38,799.00	CY	38,799.00	
16	EMBANKMENT COMPACTION	74,912.00	CY	62,362.00	12,550.00
17	SUBGRADE STABILIZATION MATTESS	3,022.00	SY	3,022.00	
STOCKPILING					
18	CRUSHED SURFACING TOP COURSE IN STOCKPILE	14,500.00	CY		14,500.00
DRAINAGE					
19	DITCH EXCAVATION INCL. HAUL	35,493.00	CY	28,637.00	6,856.00
20	CHANNEL EXCAVATION INCL. HAUL	5,950.00	CY	5,950.00	
21	CHANNEL EMBANKMENT	1,700.00	CY	1,700.00	
22	FILTER BLANKET	833.00	CY	433.00	400.00
23	STREAMBED MATERIAL	1,474.00	CY	1,474.00	
24	INSTREAM BOULDER	22.00	EA	22.00	
25	HAND PLACED RIPRAP	95.00	CY	95.00	
26	HEAVY LOOSE RIPRAP	3,678.00	CY	2,878.00	800.00
27	QUARRY SPALLS	285.00	CY	189.00	96.00
28	ROCK BARB	1,251.00	CY	1,251.00	
29	BOX CULVERT HEADWALL	2.00	EA	2.00	
30	60-IN. X 36-IN. PRECAST CONCRETE BOX CULVERT	72.00	LF	72.00	
31	PLAIN STEEL CULV. PIPE 0.064 IN. TH. X 12 IN. DIAM.	38.00	LF	38.00	
32	PLAIN STEEL CULV. PIPE 0.064 IN. TH. X 18 IN. DIAM.	406.00	LF	256.00	150.00
33	PLAIN STEEL CULV. PIPE 0.064 IN. TH. X 24 IN. DIAM.	366.00	LF	303.00	63.00
34	PLAIN STEEL CULV. PIPE 0.064 IN. TH. X 30 IN. DIAM.	149.00	LF	149.00	
35	PLAIN STEEL CULV. PIPE ARCH 0.079 IN. TH. X 49 IN. SPAN	166.00	LF	166.00	
36	PLAIN STEEL CULV. PIPE ARCH 0.079 IN. TH. X 71 IN. SPAN	232.00	LF	232.00	
37	HIGH DENSITY POLYETHYLENE (HDPE) DRAIN PIPE 4 IN. DIAM. PERF	139.00	LF	139.00	
38	DUCTILE IRON PIPE 4 IN. DIAM.	40.00	LF	40.00	
39	PVC DRAIN PIPE 2 IN. DIAM.	44.00	LF	44.00	
STORM SEWER					
40	CATCH BASIN TYPE 1L	5.00	EA	2.00	3.00
41	CATCH BASIN TYPE 2 48 IN. DIAM.	1.00	EA		1.00
42	SOLID WALL PVC STORM SEWER PIPE 6 IN. DIAM.	58.00	LF	58.00	
43	SOLID WALL PVC STORM SEWER PIPE 12 IN. DIAM.	634.00	LF	44.00	590.00
44	CURB INLET TYPE 1	8.00	EA		8.00
STRUCTURE					
45	STRUCTURAL EARTH WALL	100.00	SF	100.00	
46	TEMPORARY BRIDGE - MILL CREEK BRIDGE	1.00	EA	1.00	
47	TEMPORARY BRIDGE - BLUE CREEK BRIDGE	1.00	EA		1.00
48	STRUCTURE EXCAVATION CLASS A INCL. HAUL	1,591.00	CY	808.00	783.00
49	SHORING OR EXTRA EXCAVATION CLASS A INCL. HAUL	1.00	LS	0.75	0.25
50	GRAVEL BACKFILL FOR WALL	215.00	CY	109.00	106.00
51	FURNISHING ST. PILING	3,048.00	LF	872.00	2,176.00
52	DRIVING ST. PILING	110.00	EA	42.00	68.00
53	FURNISHING STEEL PILE TIP OR SHOE	110.00	EA	42.00	68.00
54	ST. REINF. BAR FOR SUBSTRUCTURE	74,926.00	LB	55,780.00	19,146.00
55	CONCRETE CLASS 4000 FOR SUBSTRUCTURE	669.00	CY	428.00	241.00
56	CONCRETE CLASS 4000W FOR BRIDGE	106.00	CY	106.00	
57	SUPERSTRUCTURE - MILL CREEK BRIDGE	1.00	LS	1.00	
58	SUPERSTRUCTURE - BLUE CREEK BRIDGE	1.00	LS		1.00
59	TRAFFIC BARRIER - MILL CREEK BRIDGE	342.00	LF	342.00	
60	TRAFFIC BARRIER - BLUE CREEK BRIDGE	262.00	LF		262.00
61	BRIDGE APPROACH SLAB	449.00	SY	260.00	189.00

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS.

ITEM NO	ITEM DESCRIPTION	TOTAL QUANTITY	UNITS	MILL CREEK ROAD	BLUE CREEK BRIDGE
SURFACING					
62	CRUSHED SURFACING BASE COURSE	21,201.00	CY	13,320.00	7,881.00
HOT MIX ASPHALT					
63	HMA CL. 1/2 IN. PG 64H-28	8,612.00	TON	5,700.00	2,912.00
64	HMA CL. 1/2 IN. PG 64H-28 FOR APPROACH	311.00	TON	145.00	166.00
EROSION CONTROL AND PLANTING					
65	CHECK DAM	370.00	LF	370.00	
66	WATTLE	2,020.00	LF	1,820.00	200.00
67	EROSION CONTROL MAT	285.00	SY		285.00
68	EROSION CONTROL AND WATER POLLUTION PREVENTION	1.00	LS	0.75	0.25
69	WETLAND SOIL MIX	5,022.00	CY	5,022.00	
70	SEEDING, FERTILIZING, AND MULCHING - NATIVE GRASS MIX	11.13	ACRE	7.00	4.13
71	SEEDING, FERTILIZING, AND MULCHING - DRYLAND PASTURE MIX	1.00	ACRE		1.00
72	WETLAND SEEDING AND MULCHING	5.00	ACRE	5.00	
73	LIVE BRANCH CUTTINGS	1,060.00	EA	1,030.00	30.00
74	PLANTINGS-PLUGS	3,500.00	EA	3,500.00	
75	PLANTINGS - 1 GALLON	839.00	EA	839.00	
76	PLANTINGS - 5 GALLON	159.00	EA	139.00	20.00
77	SOD INSTALLATION	90.00	SY	90.00	
78	ROOTWAD	49.00	EA	49.00	
79	ROOTWAD ANCHORED	4.00	EA	4.00	
80	HIGH VISIBILITY FENCE	370.00	LF	370.00	
81	SILT FENCE	7,410.00	LF	7,410.00	
TRAFFIC					
82	EXTRUDED CURB	120.00	LF	120.00	
83	CEMENT TRAFFIC CURB AND GUTTER	1,968.00	LF		1,968.00
84	BEAM GUARDRAIL TYPE 31 TRANSITION SECTION TYPE 21	8.00	EA	4.00	4.00
85	BEAM GUARDRAIL TYPE 31 NON FLARED TERMINAL	10.00	EA	6.00	4.00
86	BEAM GUARDRAIL TYPE 31	50.00	LF	50.00	
87	FLEXIBLE GUIDE POST TYPE WW - GROUND MOUNT	26.00	EA		26.00
88	TEMPORARY CONC. BARRIER	75.00	LF	75.00	
89	PAINT LINE	34,770.00	LF	21,120.00	13,650.00
90	PAINTED STOP LINE	25.00	LF	25.00	
91	PROJECT TEMPORARY TRAFFIC CONTROL - MILL CREEK PROJECT	1.00	LS	1.00	
92	PROJECT TEMPORARY TRAFFIC CONTROL - BLUE CREEK PROJECT	1.00	LS		1.00
93	PERMANENT SIGNING	13.00	EA	2.00	11.00
OTHER ITEMS					
94	STRUCTURE EXCAVATION CLASS B INCL HAUL	305.00	CY	75.00	230.00
95	SHORING OR EXTRA EXCAVATION CLASS B	839.00	SF	150.00	689.00
96	STRUCTURE SURVEYING - MILL CREEK BRIDGE	1.00	LS	1.00	
97	STRUCTURE SURVEYING - BLUE CREEK BRIDGE	1.00	LS		1.00
98	ROADWAY SURVEYING - MILL CREEK PROJECT	1.00	LS	1.00	
99	ROADWAY SURVEYING - BLUE CREEK PROJECT	1.00	LS		1.00
100	WIRE FENCE TYPE 1	600.00	LF		600.00
101	WIRE FENCE TYPE 2	104.00	LF		104.00
102	REMOVE AND RESET EXISTING FENCE	313.00	LF	195.00	118.00
103	REMOVE AND RESET EXISTING CHAIN LINK FENCE	300.00	LF		300.00
104	GLARE SCREEN	256.00	LF		256.00
105	6 IN. DIAM. SCH. 40 PVC PIPE	495.00	LF	359.00	136.00
106	CUTOFF BLOCK	3.00	EA	3.00	
107	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	200.00	CY	150.00	50.00
108	TRIMMING AND CLEANUP	1.00	LS	0.52	0.48
109	SPCC PLAN	1.00	LS	0.50	0.50
110	MONUMENT TYPE 2	49.00	EA	38.00	11.00
111	MONUMENT TYPE 3	36.00	EA	9.00	27.00
112	MINOR CHANGE	20,000.00	DOL	10,000.00	10,000.00
113	MAILBOX SUPPORT TYPE 1	10.00	EA	4.00	6.00
114	MAILBOX SUPPORT TYPE 2	7.00	EA	5.00	2.00
115	TRAINING	1,600.00	HR		1,600.00
SCHEDULE B - WATER LINES					
B1	MOBILIZATION	1.00	LS	1.00	
B2	REMOVAL OF STRUCTURE AND OBSTRUCTION	1.00	LS	1.00	
B3	30 IN. DIAM. WATER LINE	249.00	LF	249.00	
B4	ACCESS MANHOLE	1.00	EA	1.00	
B5	ACCESS MANHOLE ADJUSTMENT	2.00	EA	2.00	
B6	CARV VAULT ADJUSTMENT	1.00	EA	1.00	
B7	TEST STATION ADJUSTMENT	9.00	EA	9.00	
B8	ROCK EXCAVATION	20.00	CY	20.00	

DRAWN: SAH	REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: SAH	10	WASH	
CHECKED: TGM	JOB NUMBER		
PROJ. ENG.: DFE	15-01		
APPROVED BY: TGM			
5/31/2018	REV DATE	REVISION	BY APP'D

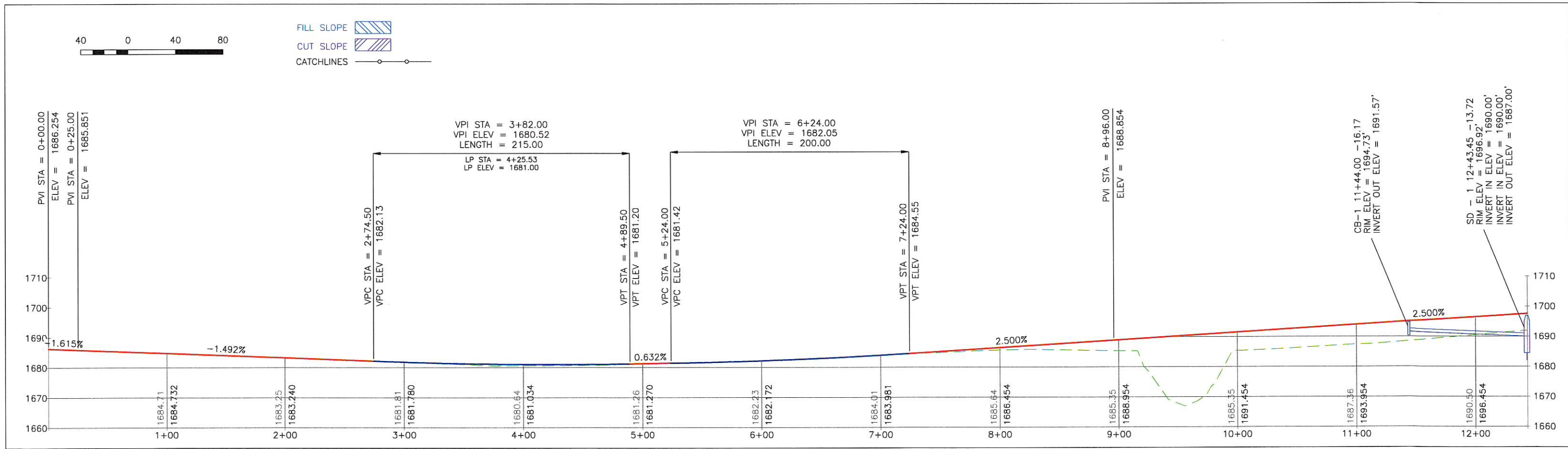
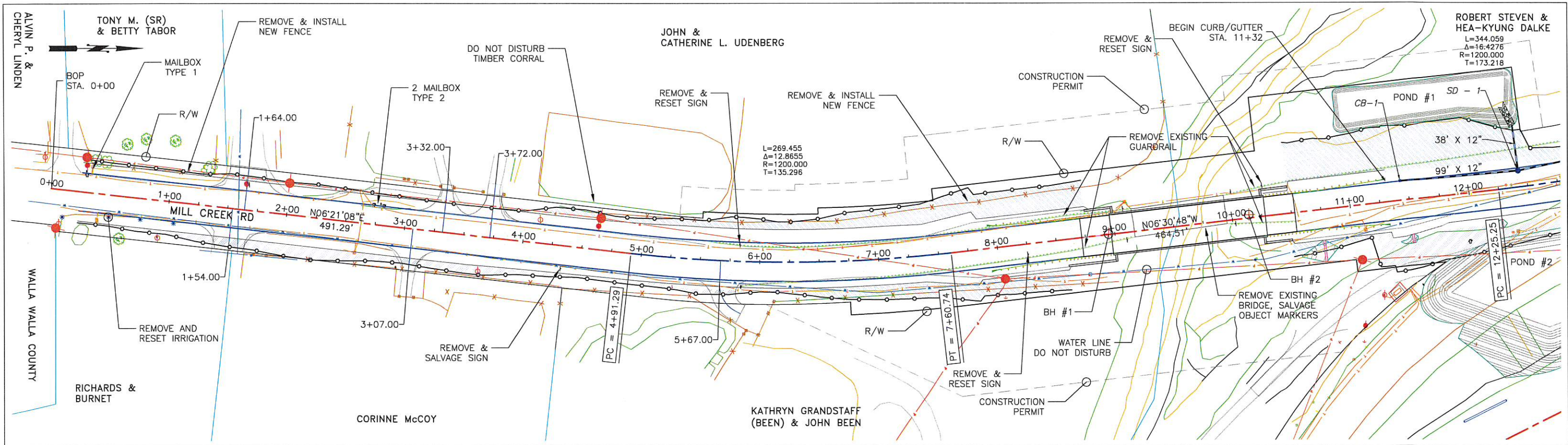
**BRS-K364(005)
TA-5753**



Walla Walla County
PUBLIC WORKS DEPARTMENT
6/26/2018
PLOT DATE



BLUE CREEK BRIDGE
SUMMARY of QUANTITIES

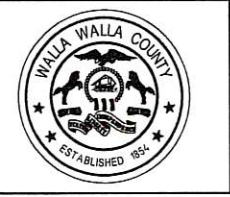


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DESIGNER: TAS	10	WASH	
CHECKED: TGM	JOB NUMBER		
PROJ. ENG.: DFE	15-01		
APPROVED BY: TGM			
1/3/2018	REV DATE	REVISION	BY APP'D

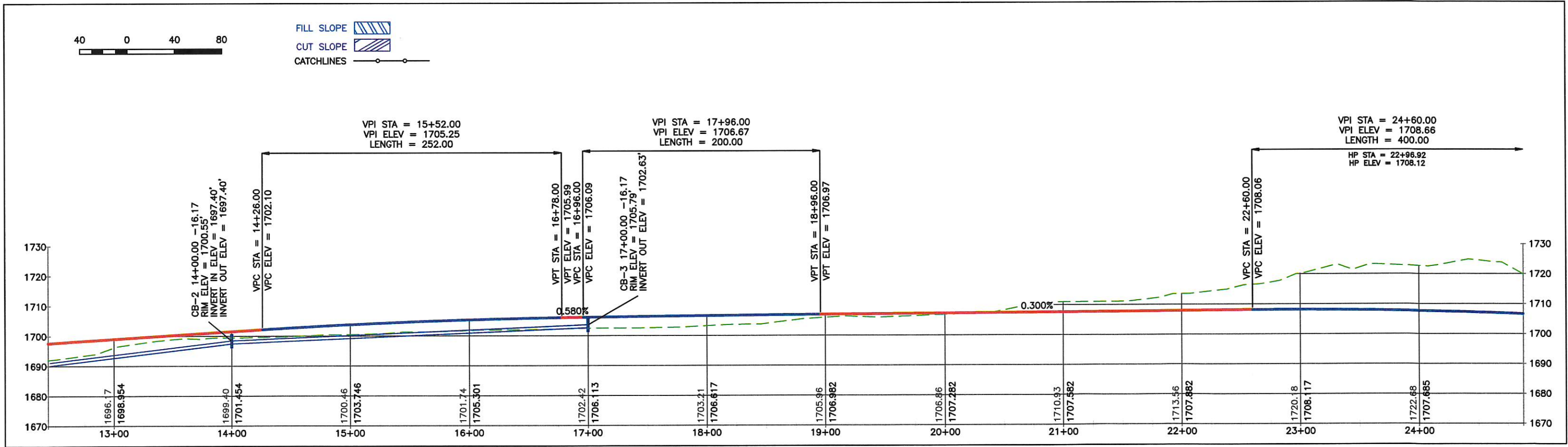
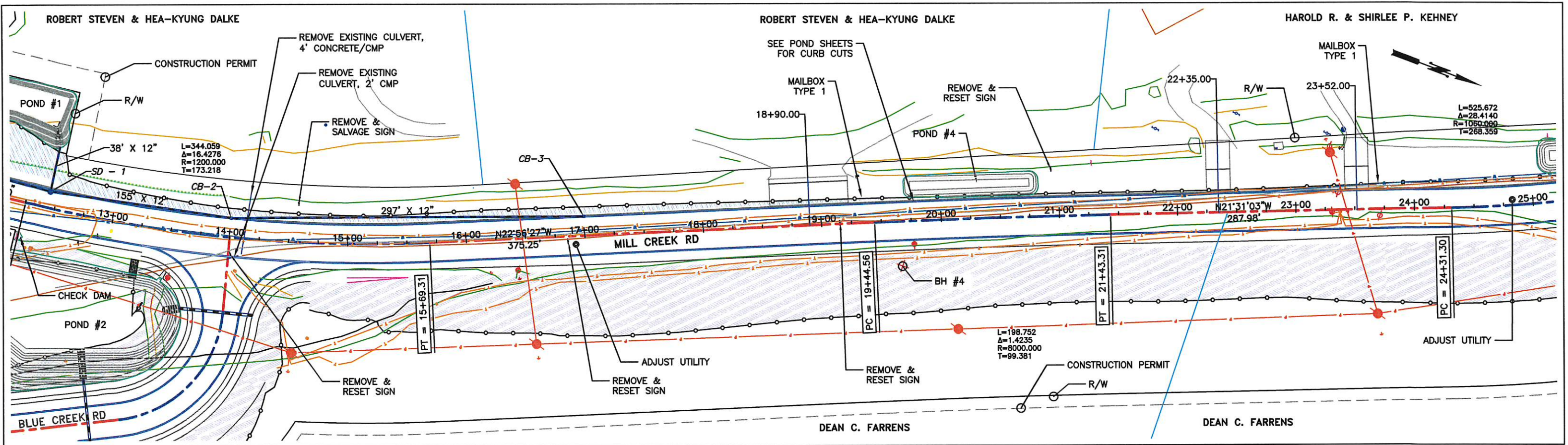
BRS-K364(005)
TA-5753



Walla Walla County
PUBLIC WORKS DEPARTMENT
1/3/2018
PLOT DATE



BLUE CREEK BRIDGE
PLAN and PROFILE, 0+00 TO 12+50



DRAWN: TAS	REGION NO.	STATE
DESIGNER: TAS	10	WASH
CHECKED: TGM	JOB NUMBER	
PROJ. ENG.: DFE	15-01	
APPROVED BY: TGM		
9/27/2017	REV DATE	REVISION
	BY	APP'D

FED. AID PROJ. NO.

BRS-K364(005)

TA-5753



Walla Walla County

PUBLIC WORKS DEPARTMENT

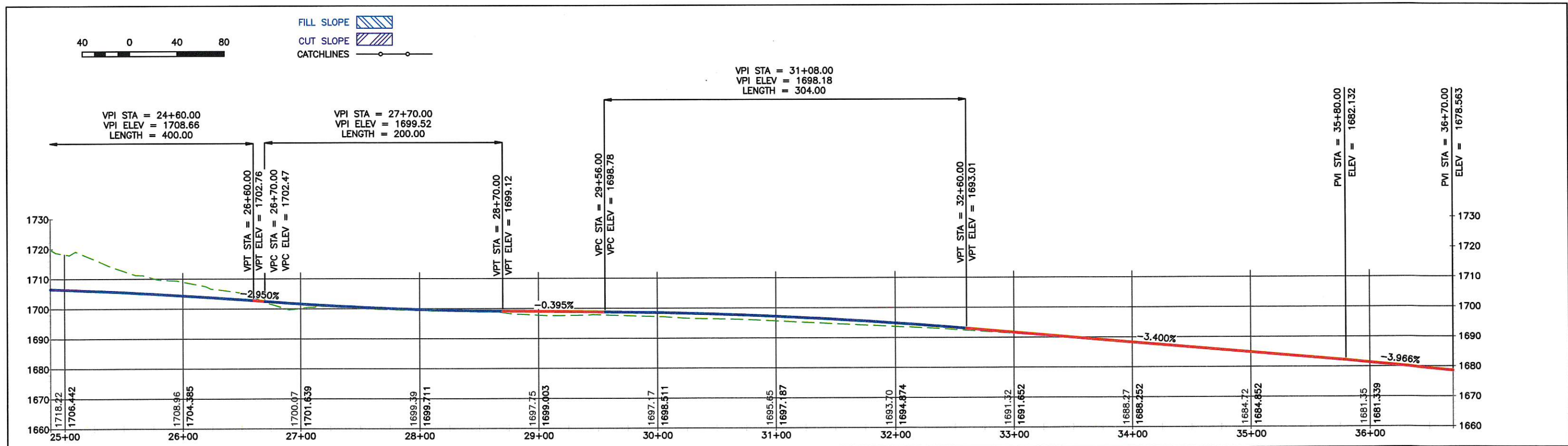
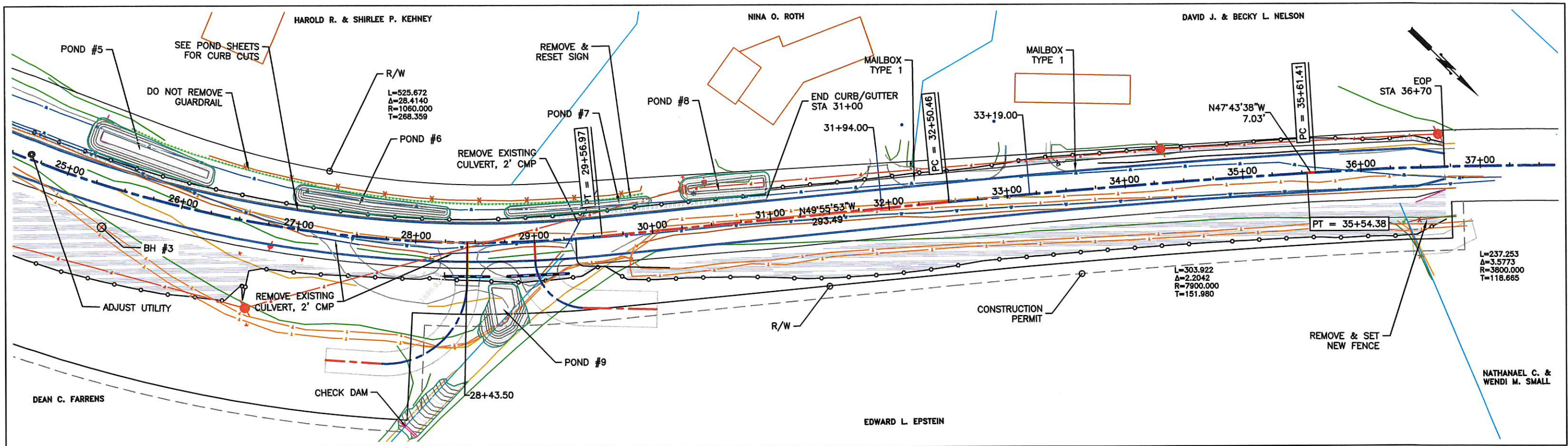
10/19/2017

PLOT DATE



BLUE CREEK BRIDGE

PLAN and PROFILE, 12+50 TO 25+00

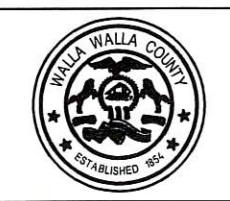


DRAWN: TAS	REGION NO. 10	STATE WASH
DESIGNER: TAS	JOB NUMBER 15-01	
CHECKED: TGM		
PROJ. ENG.: DFE		
APPROVED BY: TGM		
6/14/2017	REV DATE	REVISION
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FED. AID PROJ. NO.
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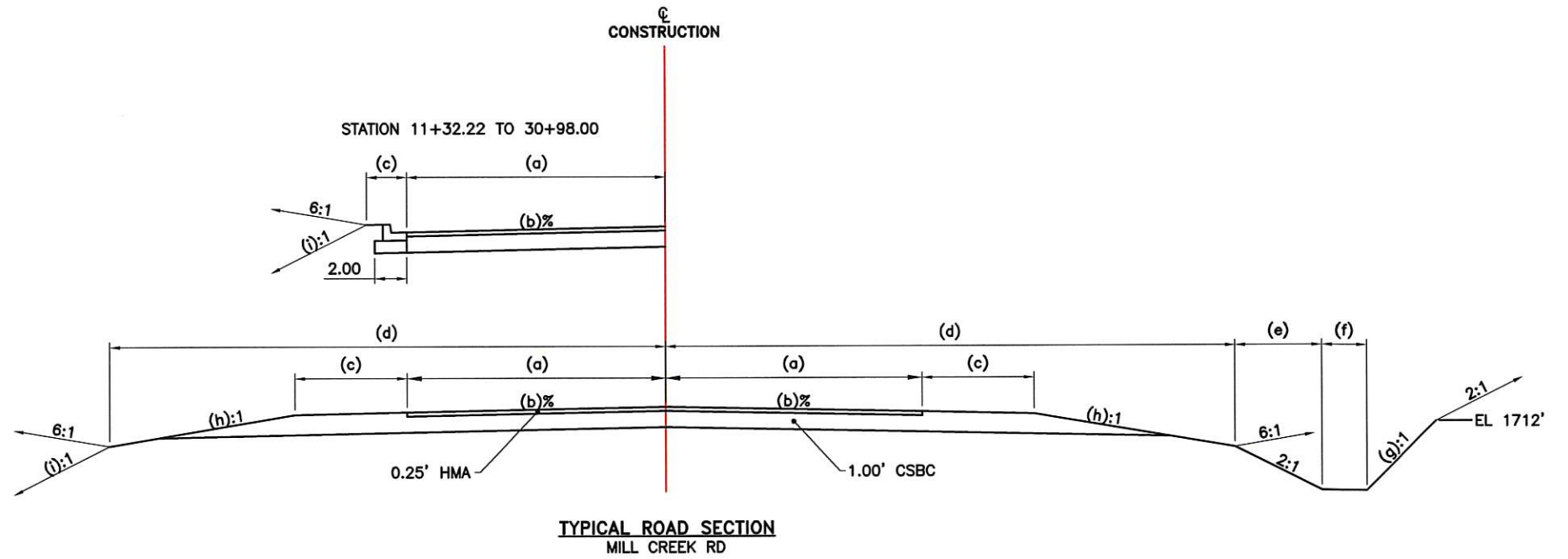
Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017
PLOT DATE



BLUE CREEK BRIDGE
PLAN and PROFILE, 25+00 TO 36+70
SHEET **5**

**MILL CREEK RD
SUPERELEVATION TABLE**

Station	Description	Left Lane	Right Lane
3+54.00	End Normal Crown	-2.00%	-2.00%
3+97.00	Level Crown	-2.00%	0.00%
4+48.00	Reverse Crown	-2.00%	2.00%
5+32.00	Begin Full Super	-5.60%	5.60%
7+09.00	End Full Super	-5.60%	5.60%
8+00.00	Reverse Crown	-2.00%	2.00%
8+44.00	Level Crown	-2.00%	0.00%
8+87.00	Begin Normal Crown	-2.00%	-2.00%
10+88.06	End Normal Crown	-2.00%	-2.00%
11+35.91	Level Crown	-2.00%	0.00%
11+83.77	Reverse Crown	-2.00%	2.00%
12+69.91	Begin Full Super	-5.60%	5.60%
15+24.65	End Full Super	-5.60%	5.60%
16+10.79	Reverse Crown	-2.00%	2.00%
16+58.65	Level Crown	-2.00%	0.00%
17+06.51	Begin Normal Crown	-2.00%	-2.00%
22+90.70	End Normal Crown	-2.00%	-2.00%
23+38.63	Level Crown	-2.00%	0.00%
23+86.56	Reverse Crown	-2.00%	2.00%
24+77.63	Begin Full Super	-5.80%	5.80%
29+10.64	End Full Super	-5.80%	5.80%
30+01.71	Reverse Crown	-2.00%	2.00%
30+49.64	Level Crown	-2.00%	0.00%
30+97.57	Begin Normal Crown	-2.00%	-2.00%
34+68.88	End Normal Crown	-2.00%	-2.00%
35+16.74	Level Crown	0.00%	-2.00%
35+64.59	Reverse Crown	2.00%	-2.00%
35+83.74	Begin Full Super	2.80%	-2.80%
37+76.33	End Full Super	2.80%	-2.80%
37+95.47	Reverse Crown	2.00%	-2.00%
38+43.33	Level Crown	0.00%	-2.00%
38+91.18	Begin Normal Crown	-2.00%	-2.00%



- (a) TRANSITION FROM EXISTING ROAD TO 16', BOP TO STA. 0+25.00
TRANSITION FROM 16' TO EXISTING ROAD, STA. 36+25.00 TO EOP
- (b) TRANSITION FROM BOP TO -2%, BOP TO STA 0+25.00
SEE SUPERELEVATION TABLE FOR VARIABLE SLOPES
TRANSITION FROM -2% T EXISTING SLOPE, STA. 36+25.00 TO EOP
- (c) TRANSITION FROM EXISTING TO 0', BOP TO STA. 0+25.00
TRANSITION FROM 0' TO 7', STA. 7+38.00 TO STA. 7+81.00
8', STA. 10+48.50LT, TO STA. 12+50.00LT.
TRANSITION FROM 8' TO 2.5', STA. 12+50.00LT TO STA 12+70.00LT
TRANSITION FROM 2.5' TO 0', STA. 30+95.00LT TO STA 31+00.00LT
TRANSITION FROM 7' TO 0', STA. 11+44.00RT TO STA. 11+86.00RT
- (d) TRANSITION FROM EXISTING TO 24.52', BOP TO STA. 0+25.00
24.52' (MIN.)
TRANSITION FROM 24.52' TO EXISTING, STA. 36+25.00 TO EOP
- (e) TRANSITION FROM 0' TO 4', STA. 11+00.00RT TO STA. 11+25.00RT
4', STA 11+25.00RT TO STA. 36+25.00RT
TRANSITION FROM 4' TO EXISTING, STA. 36+25.00RT TO EOP
- (f) TRANSITION FROM 0' TO 6', STA. 12+75.00RT TO STA. 13+25.00RT
MATCH INTO BLUE CREEK ROAD DITCH
4', STA. 14+75.00RT @ BLUE CREEK ROAD TO STA. 15+00.00RT
TRANSITION FROM 4' TO 0', STA 15+00.00RT TO STA. 15+50.00RT
- (g) END (g):1 SLOPE @ ELEVATION 1712.00' (TOP OF BASALT MAY VARY).
BOP TO STA. 28+50.00 3/4:1 SLOPE.
STA. 28+50.00 TO 36+25.00 1:1 SLOPE.
STA. 36+25.00 TO EOP TRANSITION BACKSLOPE FROM 1:1 TO EXISTING SLOPE
- (h) TRANSITION 6:1 SLOPE TO 2:1 SLOPE, STA 7+95.00 TO STA 8+15.00
END 2:1, STA 8+76.50LT
END 2:1, STA 8+58.50RT
START 2:1, STA 10+48.50
TRANSITION 2:1 SLOPE TO 6:1 SLOPE, STA 11+12.00 TO STA 11+32.00RT
- (i) START 1.75:1, STA 10+48.50LT
TRANSITION 1.75:1 TO 2:1, STA. 12+50.00 TO STA. 12+75.00LT

MILL CREEK RD STRIPPING

CENTERLINE
STA. 0+00 BOP TO STA. 36+70 EOP DOUBLE NO PASS

FOG LINE
STA 0+00 BOP TO 36+70 EOP 11' LEFT & RIGHT FROM CENTER LINE
NO STRIPE THROUGH BLUE CREEK RD INTERSECTION

DRAWN: TAS	REGION NO.	STATE
DESIGNER: TAS	10	WASH
CHECKED: TGM	JOB NUMBER	
PROJ. ENG.: DFE	15-01	
APPROVED BY: TGM	REV DATE	REVISION
6/13/2017	BY	APP'D

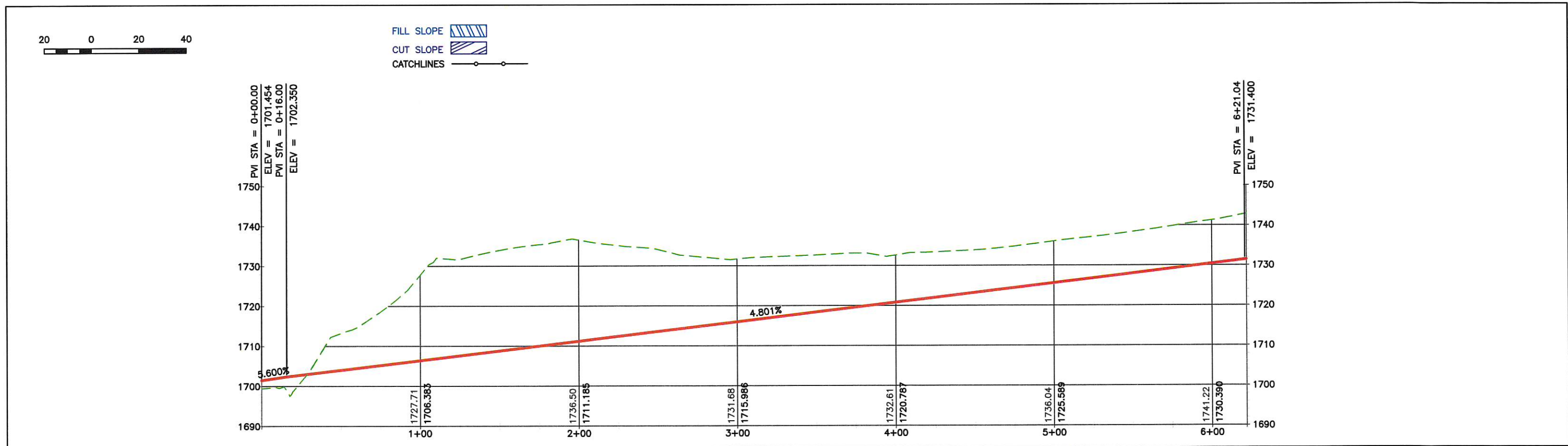
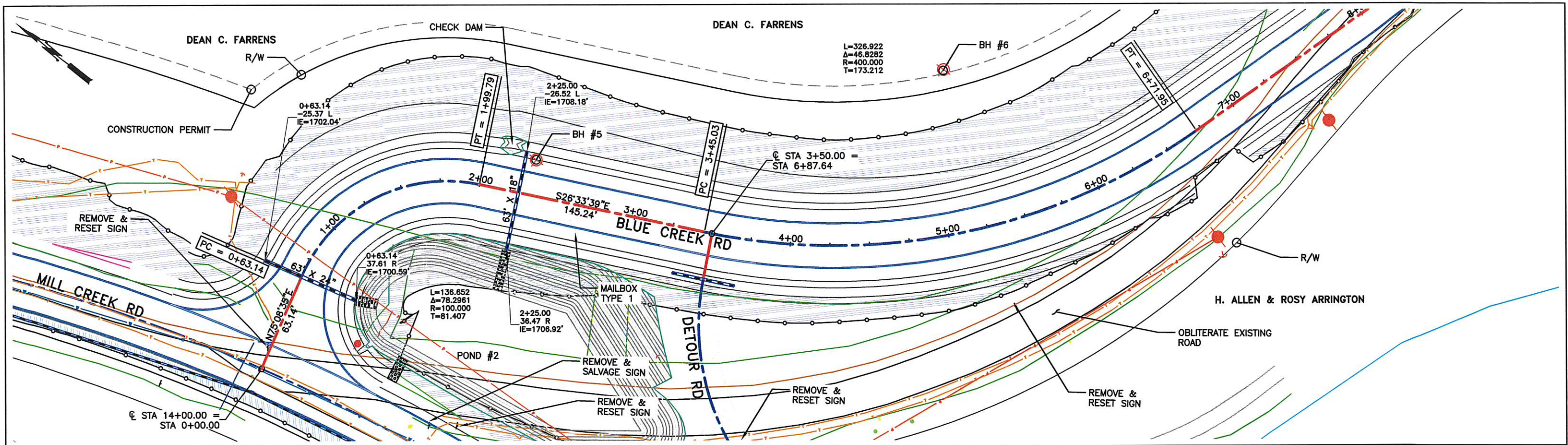
FED. AID PROJ. NO.
**BRS-K364(005)
TA-5753**



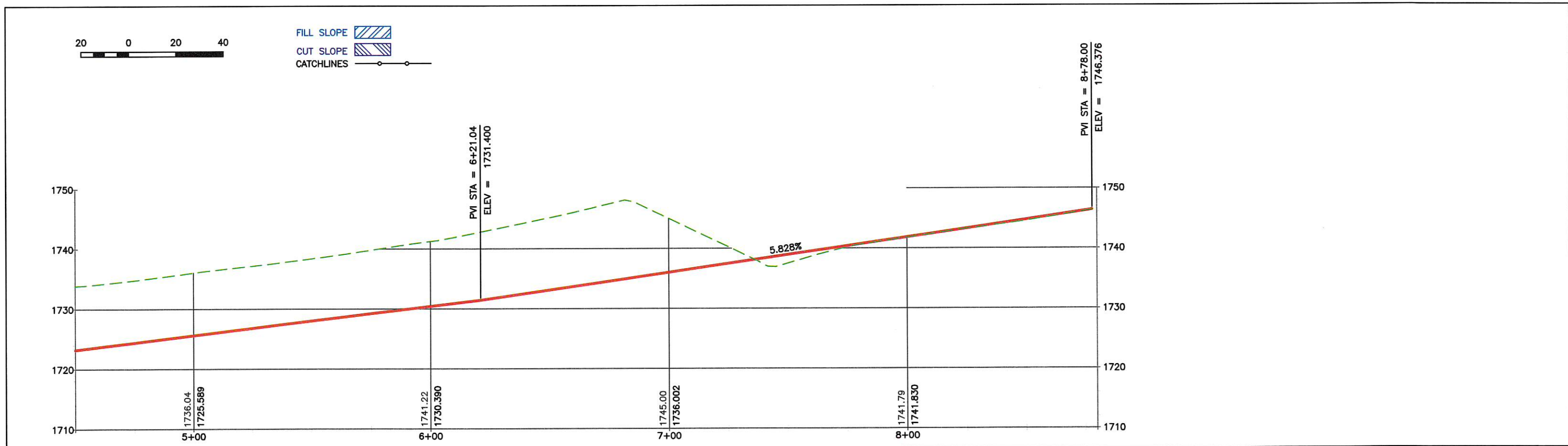
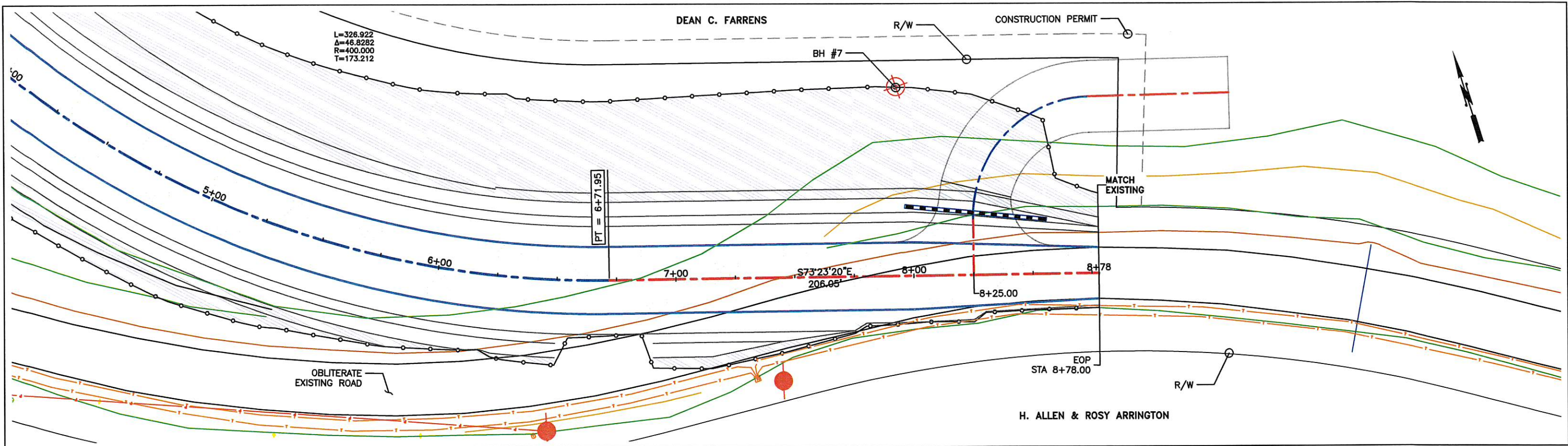
Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017
PLOT DATE



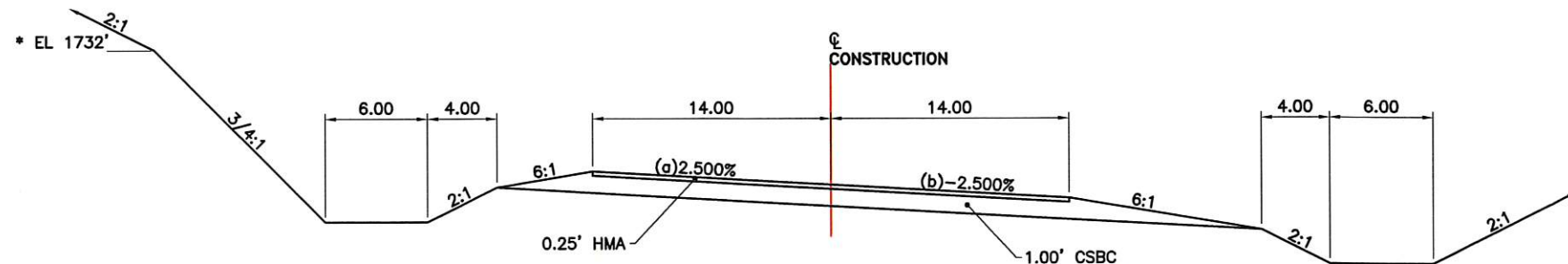
BLUE CREEK BRIDGE		MILL CREEK ROAD SECTIONS	SHEET 6
MILL CREEK ROAD SECTIONS			



DRAWN: TAS DESIGNER: TAS CHECKED: TGM PROJ. ENG.: DFE APPROVED BY: TGM	REGION NO. 10 STATE WASH JOB NUMBER 15-01	FED. AID PROJ. NO. BRS-K364(005) TA-5753		Walla Walla County PUBLIC WORKS DEPARTMENT 10/19/2017 PLOT DATE		BLUE CREEK BRIDGE PLAN and PROFILE 0+00 TO 5+00	SHEET 7
9/27/2017	REV DATE	REVISION	BY	APP'D			

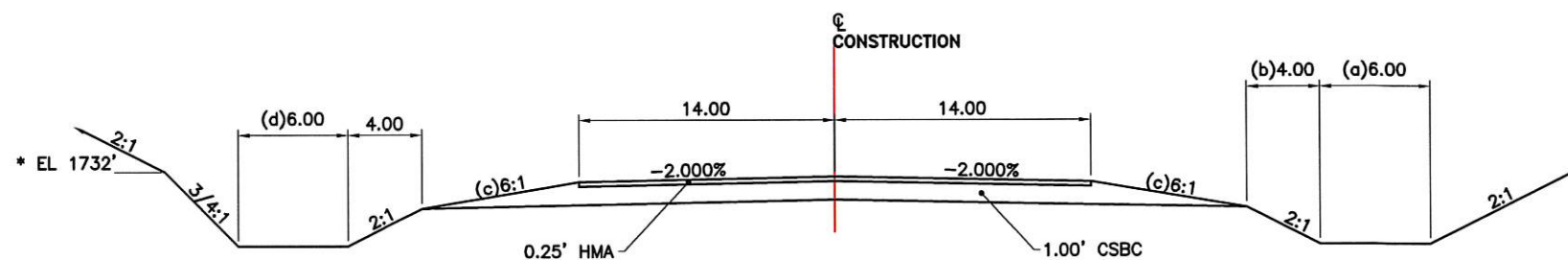


DRAWN: TAS DESIGNER: TAS CHECKED: TGM PROJ. ENG.: DFE APPROVED BY: TGM	REGION NO. 10 STATE WASH JOB NUMBER 15-01	FED. AID PROJ. NO. BRS-K364(005) TA-5753		Walla Walla County PUBLIC WORKS DEPARTMENT 10/19/2017 PLOT DATE		BLUE CREEK BRIDGE PLAN and PROFILE 5+00 TO 8+78.00	SHEET 8
6/14/2017	REV DATE	REVISION	BY	APP'D			



TYPICAL ROAD SECTION
STA 0+16.00 TO STA 2+50.00

- (a) TRANSITION 2.5% TO -2%, STA. 1+75.00 TO STA. 2+50.00
- (b) TRANSITION -2.5% TO -2%, STA. 1+75.00 TO STA. 2+50.00
- * ESTIMATED TOP OF BASALT



TYPICAL ROAD SECTION
STA 2+50.00 TO STA 8+78.00

- (a) TRANSITION 6.0' TO 0.0', STA 7+15.00 TO STA 7+45.00
- (b) TRANSITION 4.0' TO 0.0', STA 7+45.00 TO STA 7+75.00
- (c) TRANSITION 6:1 TO 2:1, STA 7+75.00 TO STA 8+30.00
- (d) TRANSITION 6.0' TO MATCH EXISTING, STA 8+25.00 TO STA 8+78.00
- * ESTIMATED TOP OF BASALT

BLUE CREEK RD STRIPPING

CENTERLINE
STA. 0+00 TO STA. 8+78 DOUBLE NO PASS

FOG LINE
STA 0+00 TO 36+70 11' FROM CENTER LINE

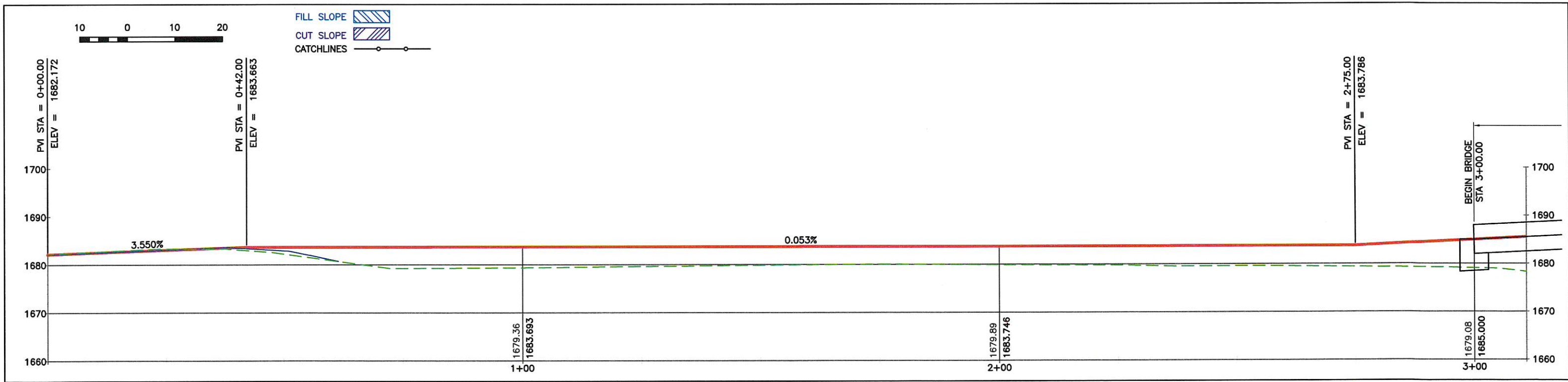
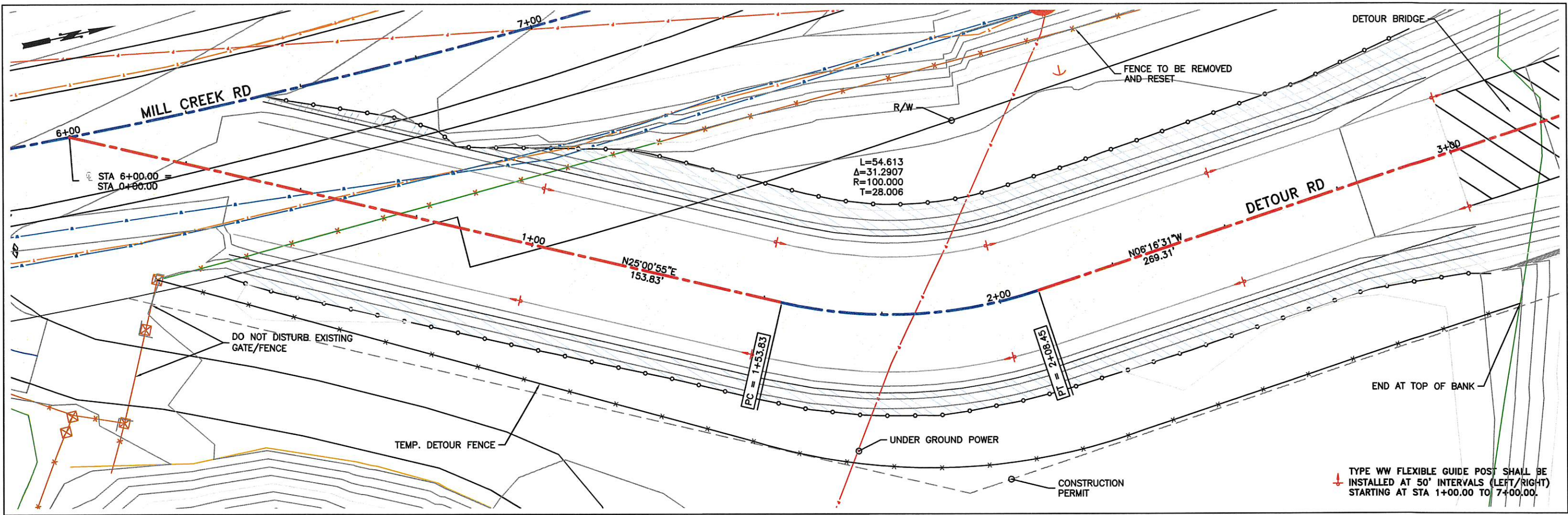
DRAWN: TAS	REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: TAS	10	WASH	BRS-K364(005) TA-5753
CHECKED: TGM	JOB NUMBER		
PROJ. ENG.: DFE	15-01		
APPROVED BY: TGM			
6/13/2017	REV DATE	REVISION	BY APP'D



Walla Walla County
PUBLIC WORKS DEPARTMENT



BLUE CREEK BRIDGE
BLUE CREEK ROAD SECTIONS

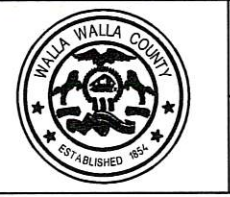


DRAWN: TAS	REV DATE	REVISION	BY	APP'D
DESIGNER: TAS				
CHECKED: TGM				
PROJ. ENG.: DFE				
APPROVED BY: TGM				
5/16/2017				

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER	BRS-K364(005) TA-5753	
15-01		

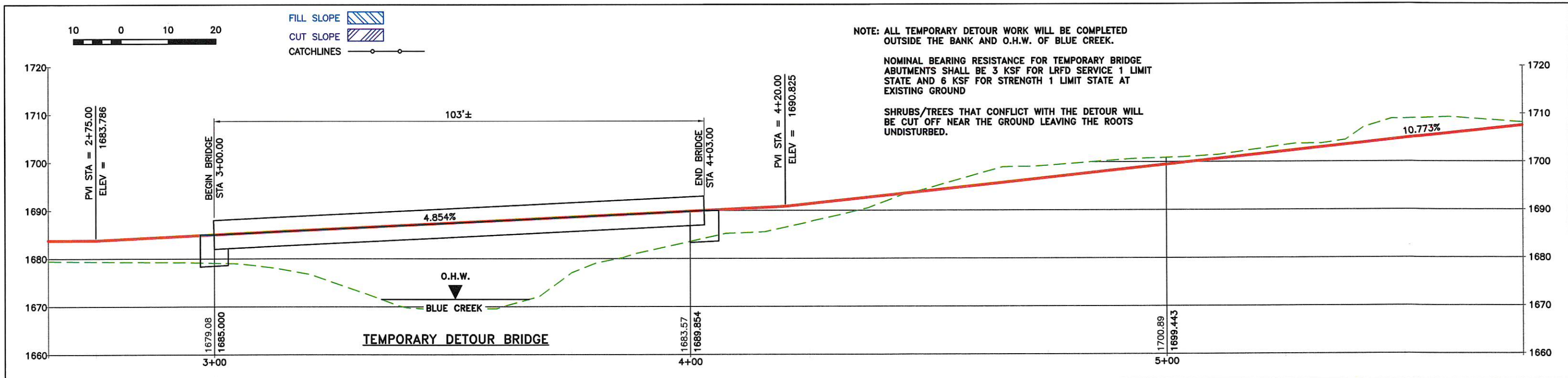
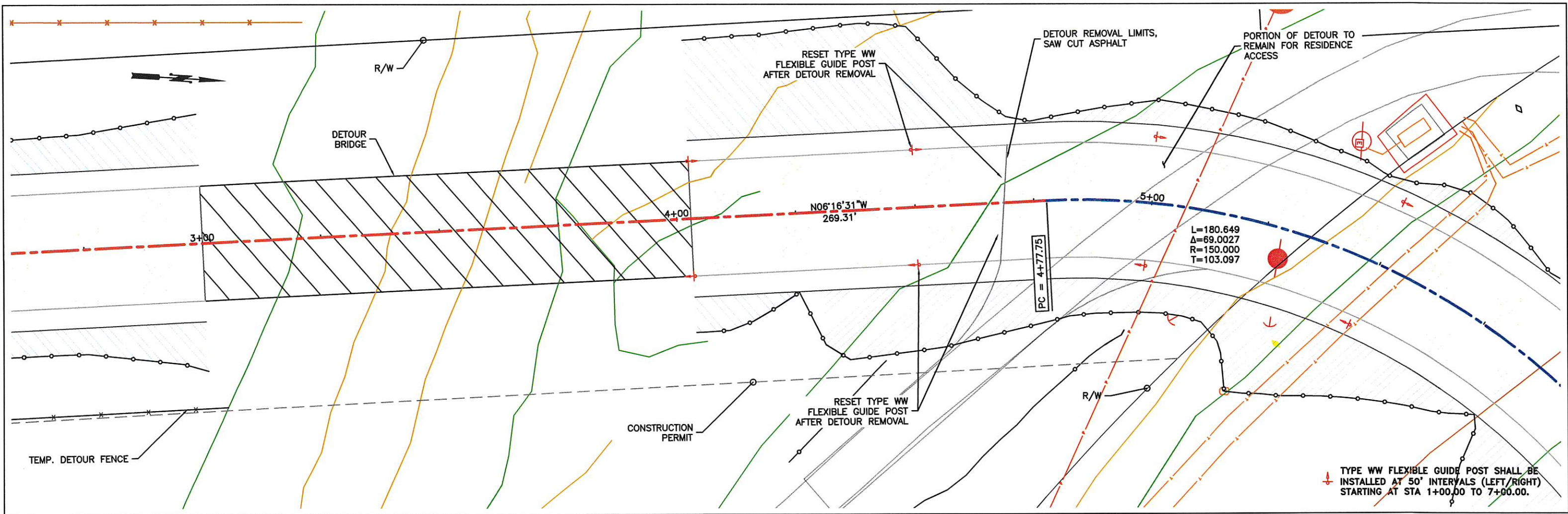


Walla Walla County
 PUBLIC WORKS DEPARTMENT
 10/19/2017
 PLOT DATE



BLUE CREEK BRIDGE
DETOUR PLAN and PROFILE

SHEET
10

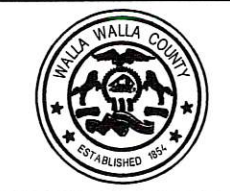


DRAWN: TAS	REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: TAS	10	WASH	
CHECKED: TGM	JOB NUMBER		
PROJ. ENG.: DFE	15-01		
APPROVED BY: TGM	REV DATE	REVISION	BY APP'D
6/13/2017			

FED. AID PROJ. NO.
BRS-K364(005)
TA-5753

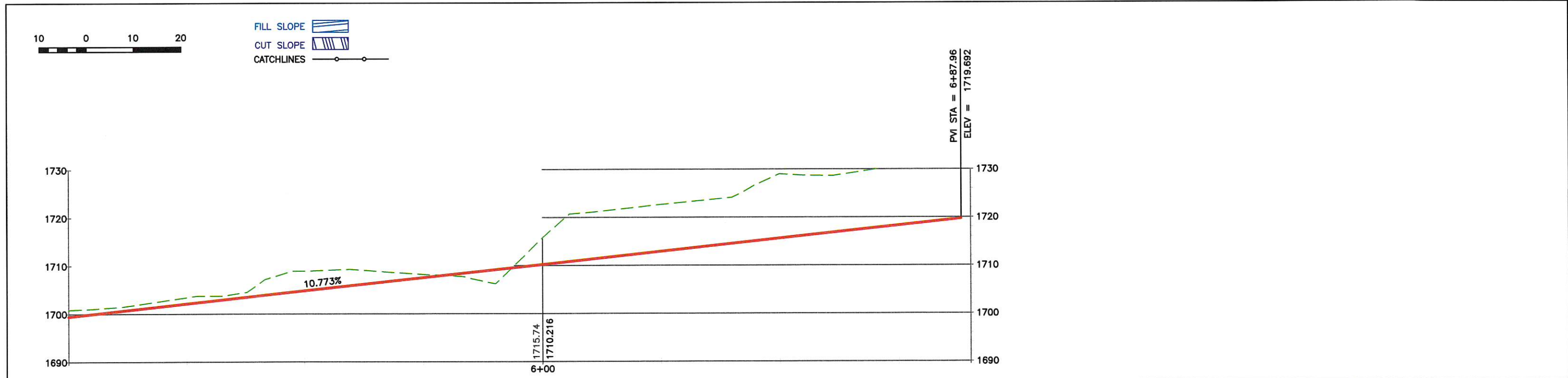
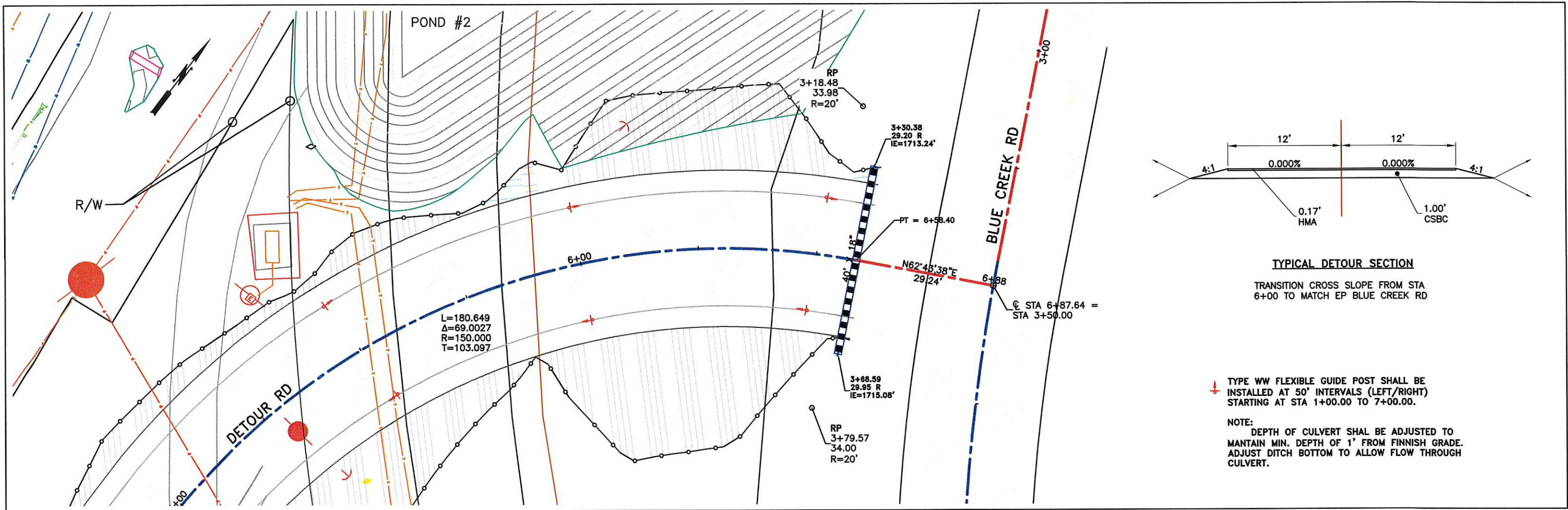


Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017
PLOT DATE

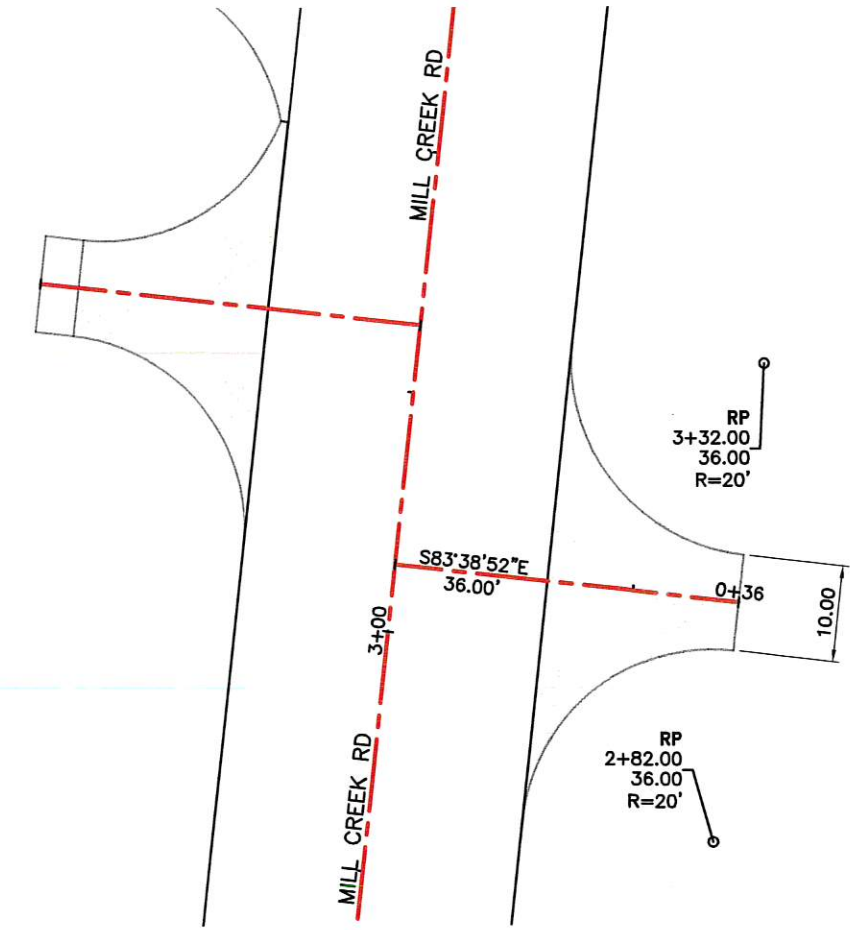
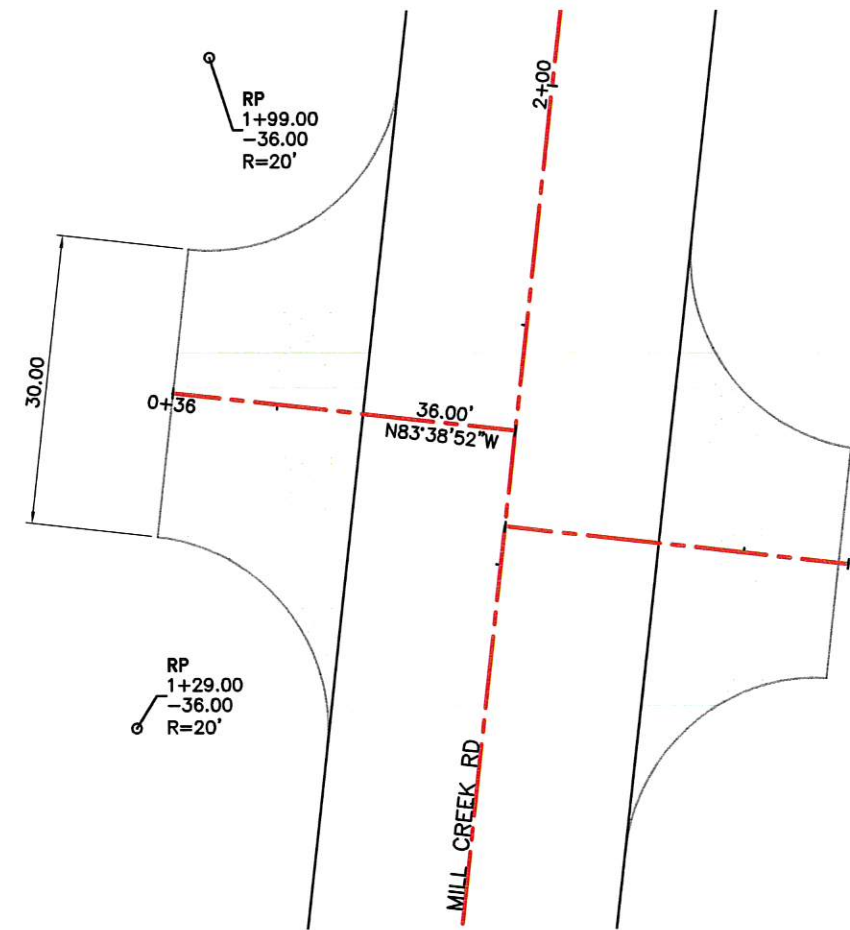
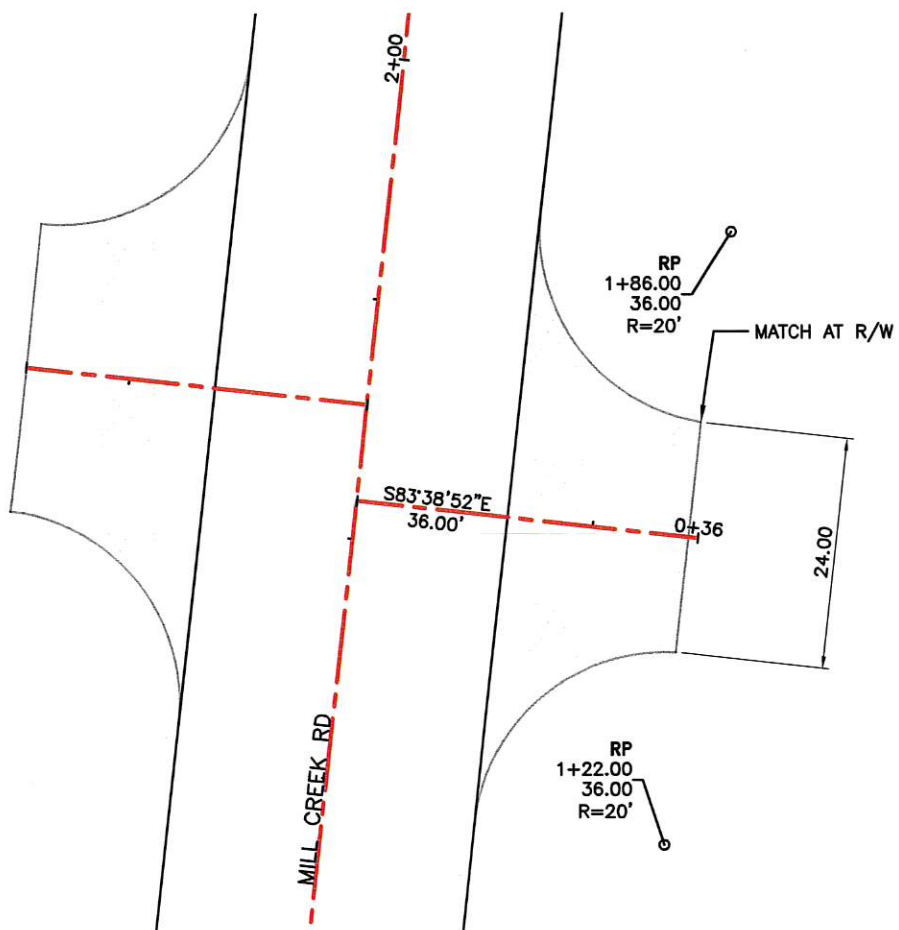
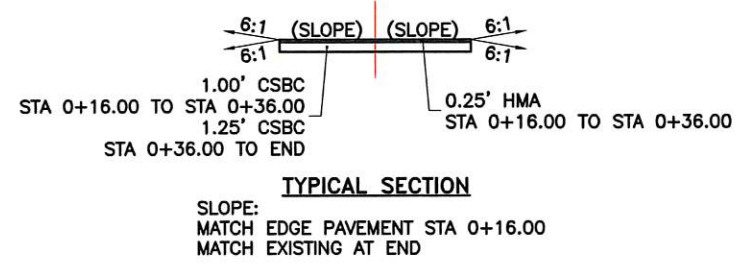


BLUE CREEK BRIDGE
DETOUR PLAN and PROFILE

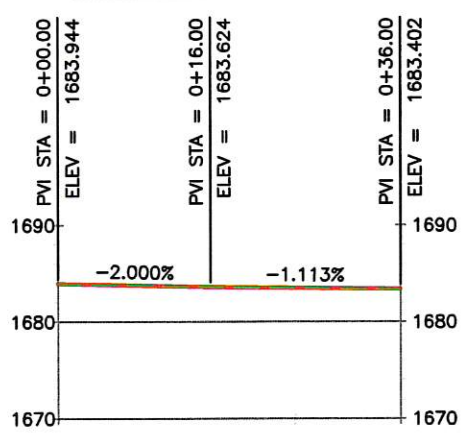
SHEET
11



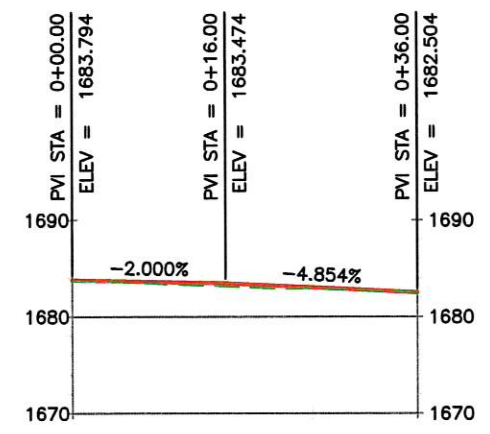
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9/27/2017 REV DATE REVISION BY APP'D							



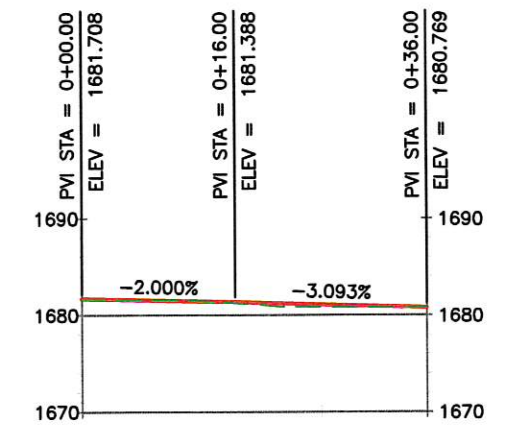
APPROACH (RT) STA 1+54



APPROACH (LT) STA 1+64



APPROACH (RT) STA 3+07



DRAWN: TAS					REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: TAS				10	WASH		
CHECKED: TGM					JOB NUMBER		
PROJ. ENG.: DFE					15-01		
APPROVED BY: TGM							
9/27/2017	REV DATE	REVISION	BY	APP'D			

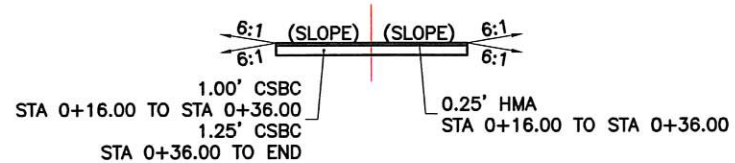
FED. AID PROJ. NO.
BRS-K364(005)
TA-5753



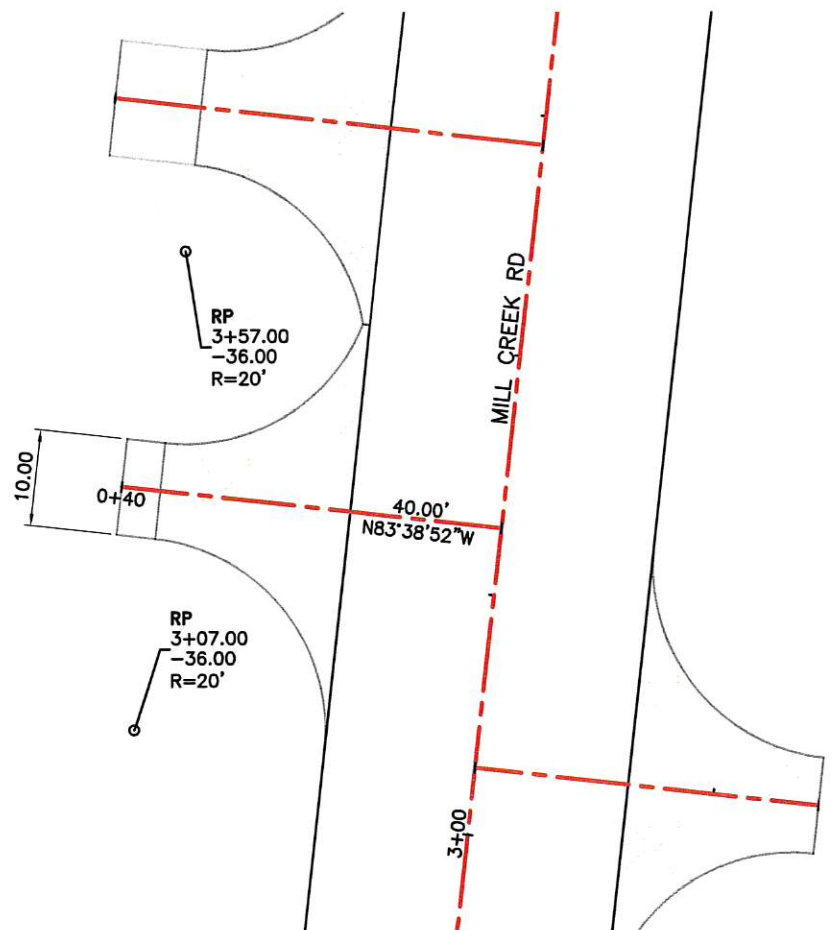
Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017
PLOT DATE



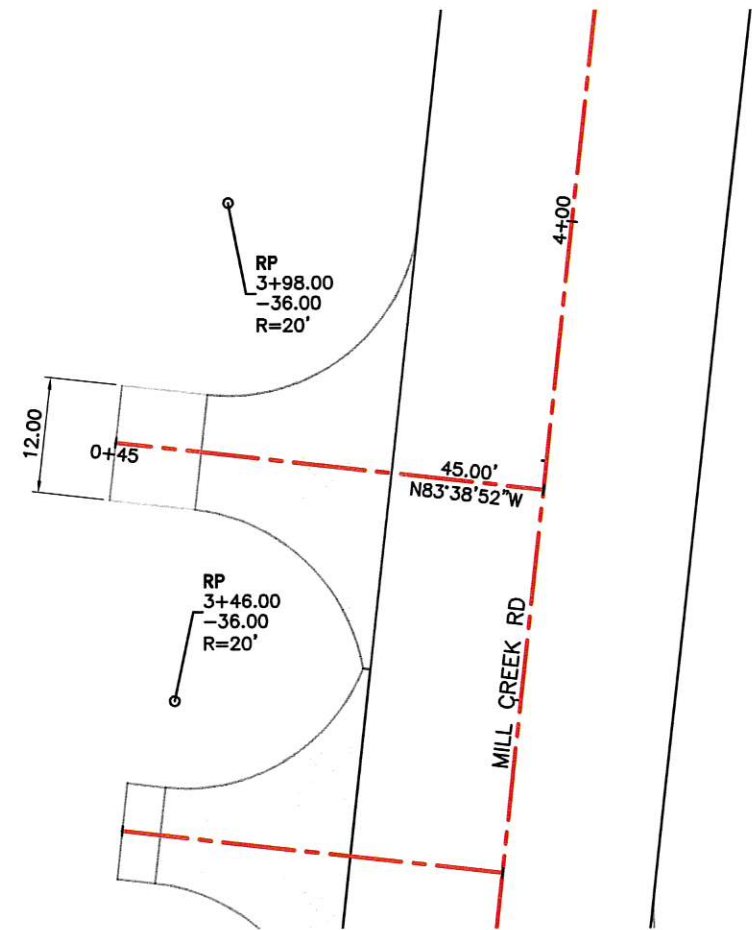
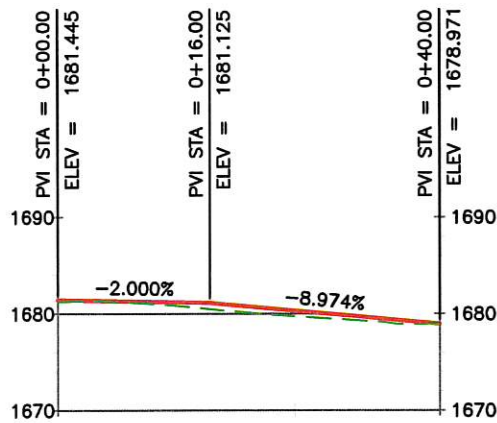
BLUE CREEK BRIDGE
APPROACH DETAILS



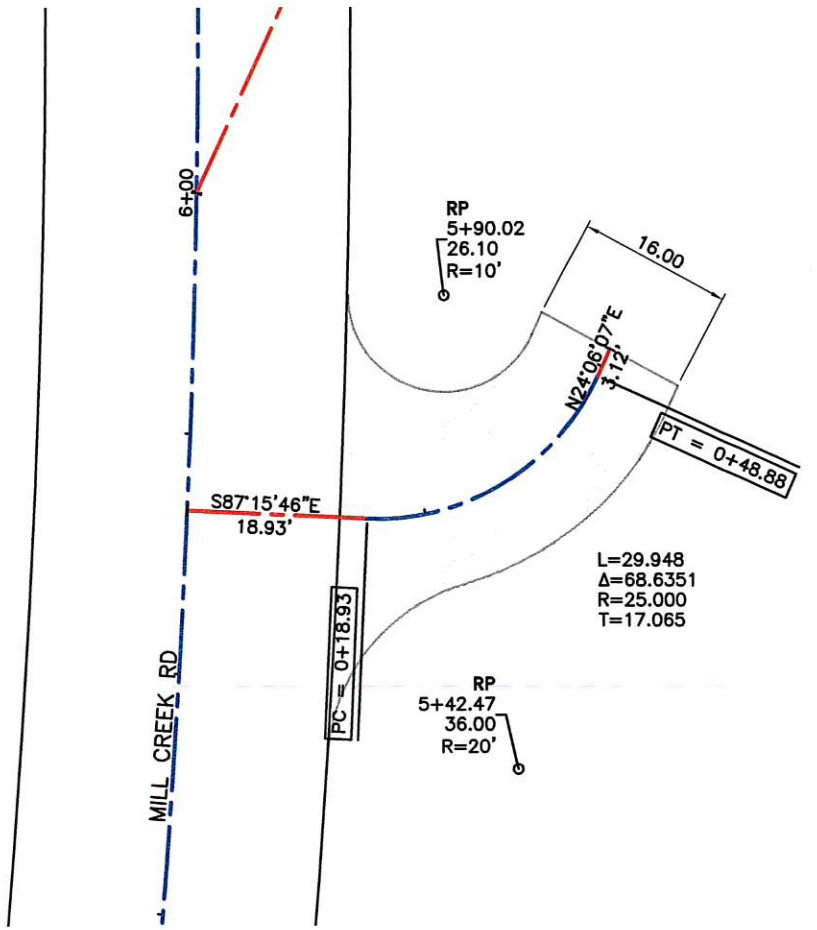
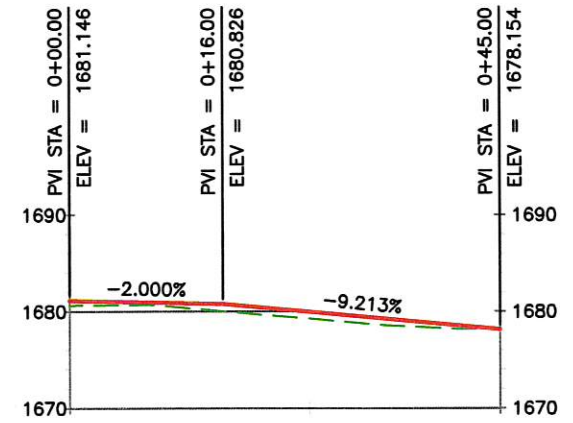
TYPICAL SECTION
 SLOPE:
 MATCH EDGE PAVEMENT STA 0+16.00
 MATCH EXISTING AT END



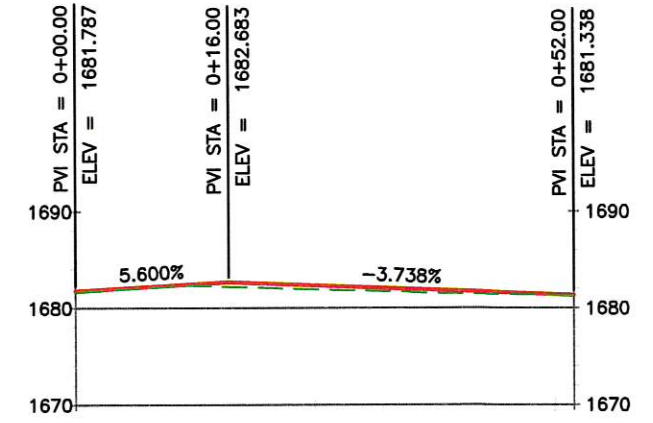
APPROACH (LT) STA 3+32



APPROACH (LT) STA 3+72



APPROACH (RT) STA 5+67

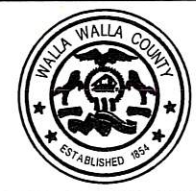


DRAWN: TAS				REGION NO.	STATE
DESIGNER: TAS				10	WASH
CHECKED: TGM				JOB NUMBER	
PROJ. ENG.: DFE				15-01	
APPROVED BY: TGM					
9/27/2017	REV DATE	REVISION	BY	APP'D	

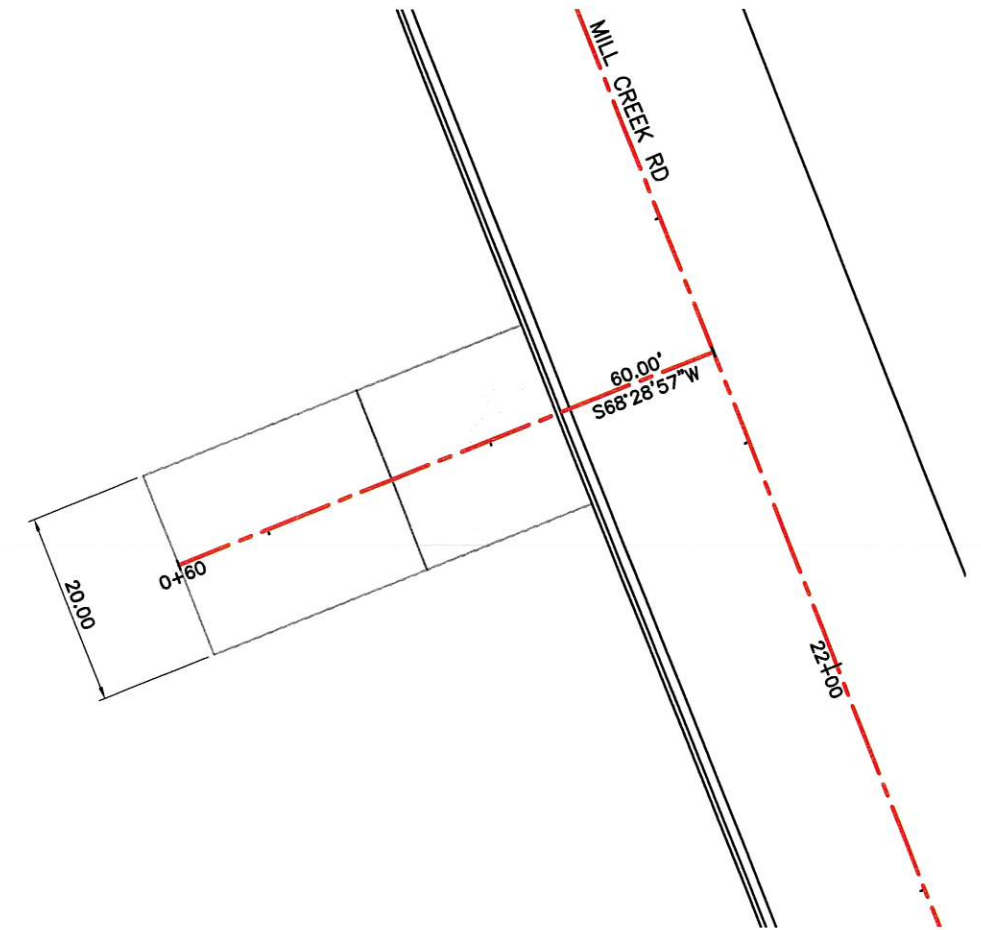
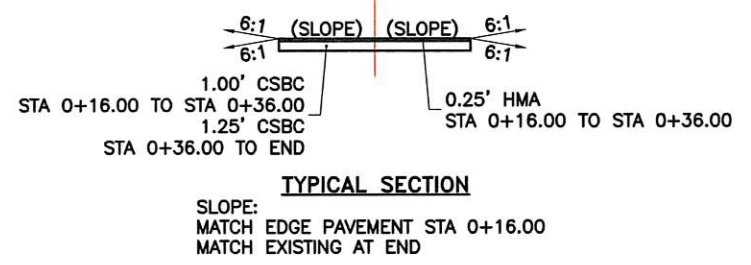
FED. AID PROJ. NO.
BRS-K364(005)
TA-5753



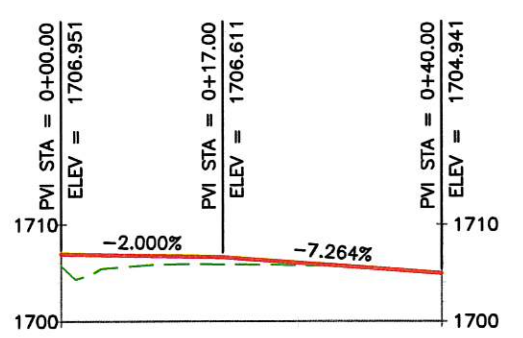
Walla Walla County
 PUBLIC WORKS DEPARTMENT
 10/19/2017
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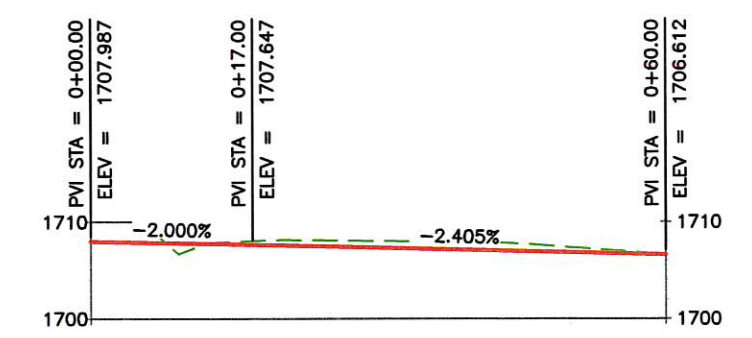
BLUE CREEK BRIDGE
APPROACH DETAILS
 SHEET 14



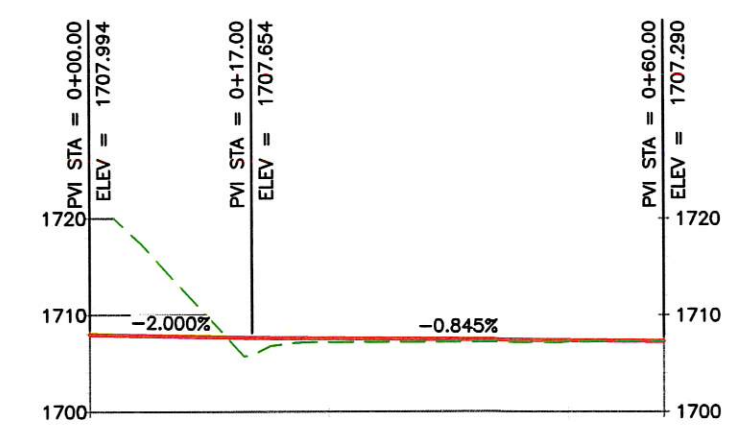
APPROACH (LT) STA 18+90



APPROACH (LT) STA 22+35



APPROACH (LT) STA 23+52

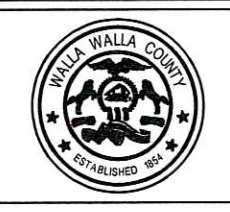


DRAWN: TAS				REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: TAS				10	WASH	
CHECKED: TGM				JOB NUMBER		
PROJ. ENG.: DFE				15-01		
APPROVED BY: TGM						
9/27/2017	REV DATE	REVISION	BY	APP'D		

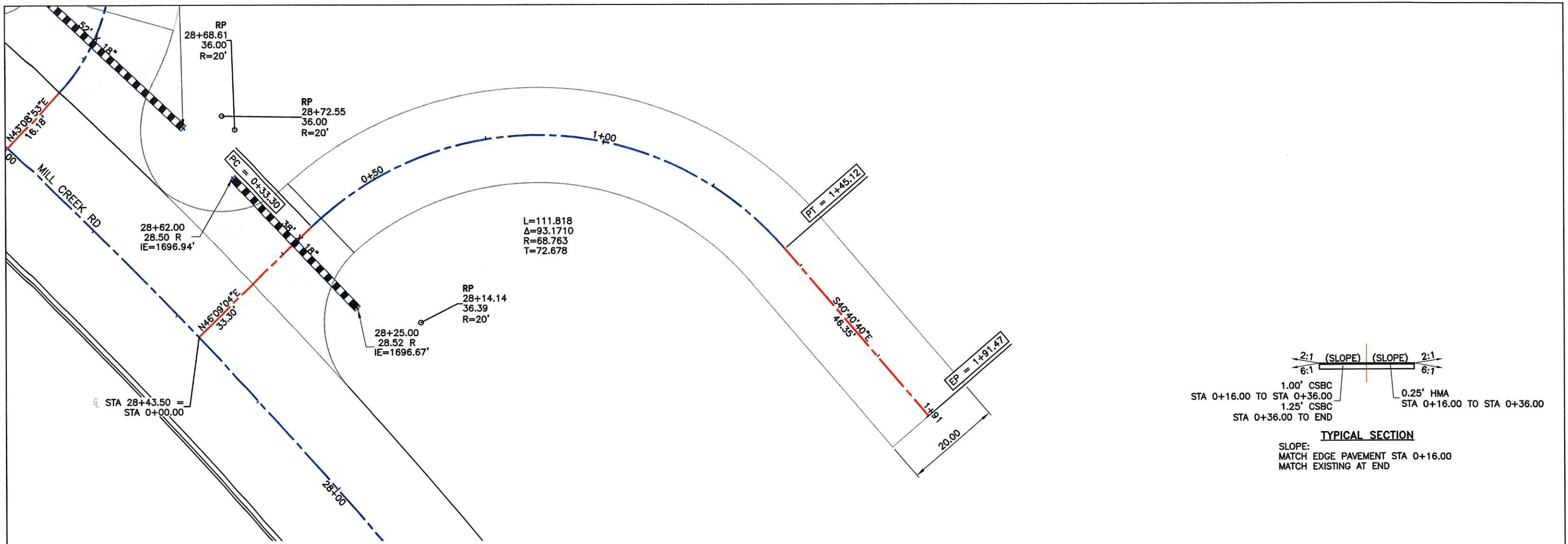
FED. AID PROJ. NO.
BRS-K364(005)
TA-5753



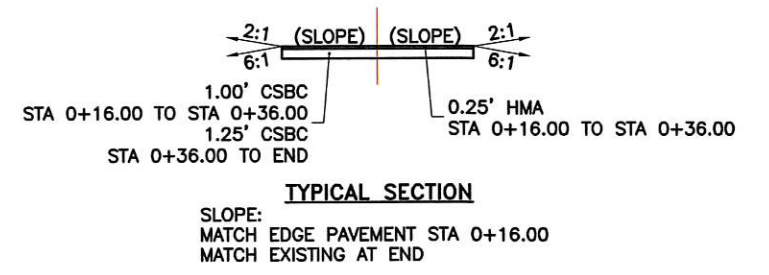
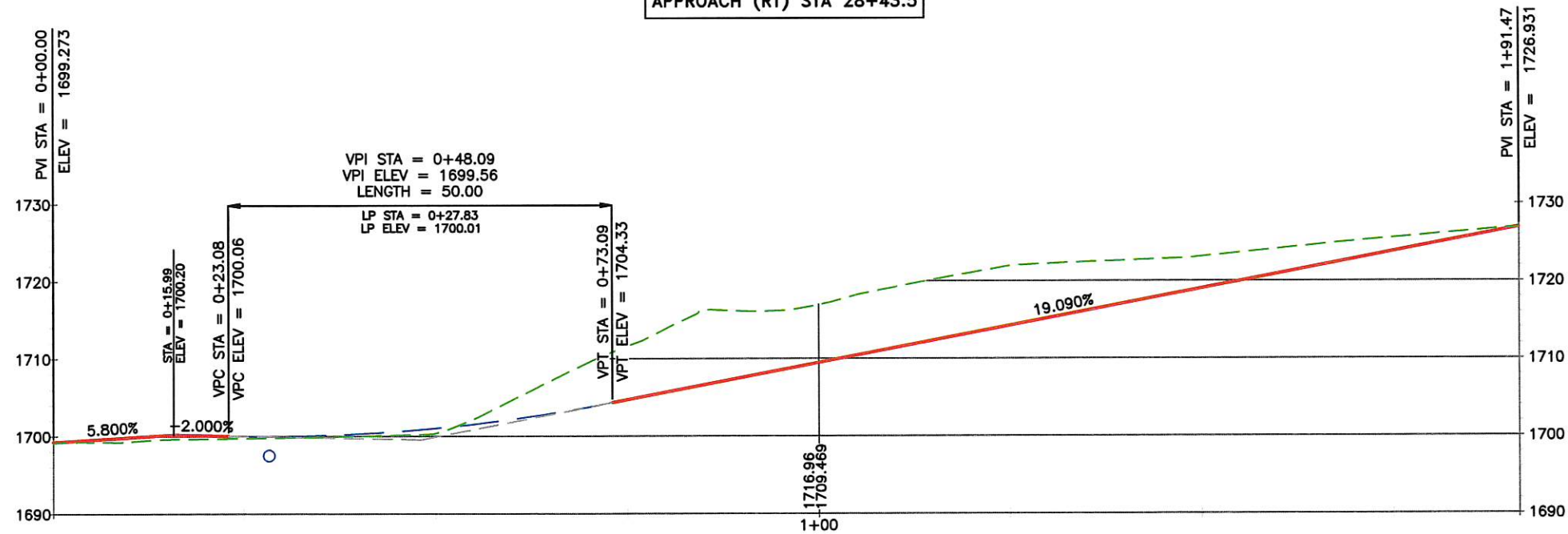
Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017
PLOT DATE



BLUE CREEK BRIDGE
APPROACH DETAILS



APPROACH (RT) STA 28+43.5

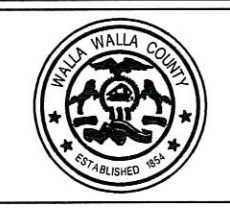


DRAWN: TAS				REGION NO.	STATE
DESIGNER: TAS				10	WASH
CHECKED: TGM				JOB NUMBER	
PROJ. ENG.: DFE				15-01	
APPROVED BY: TGM				REV DATE	REVISION
9/27/2017				BY	APP'D

FED. AID PROJ. NO.
BRS-K364(005)
TA-5753

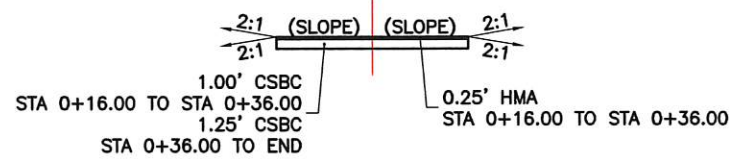


Walla Walla County
PUBLIC WORKS DEPARTMENT
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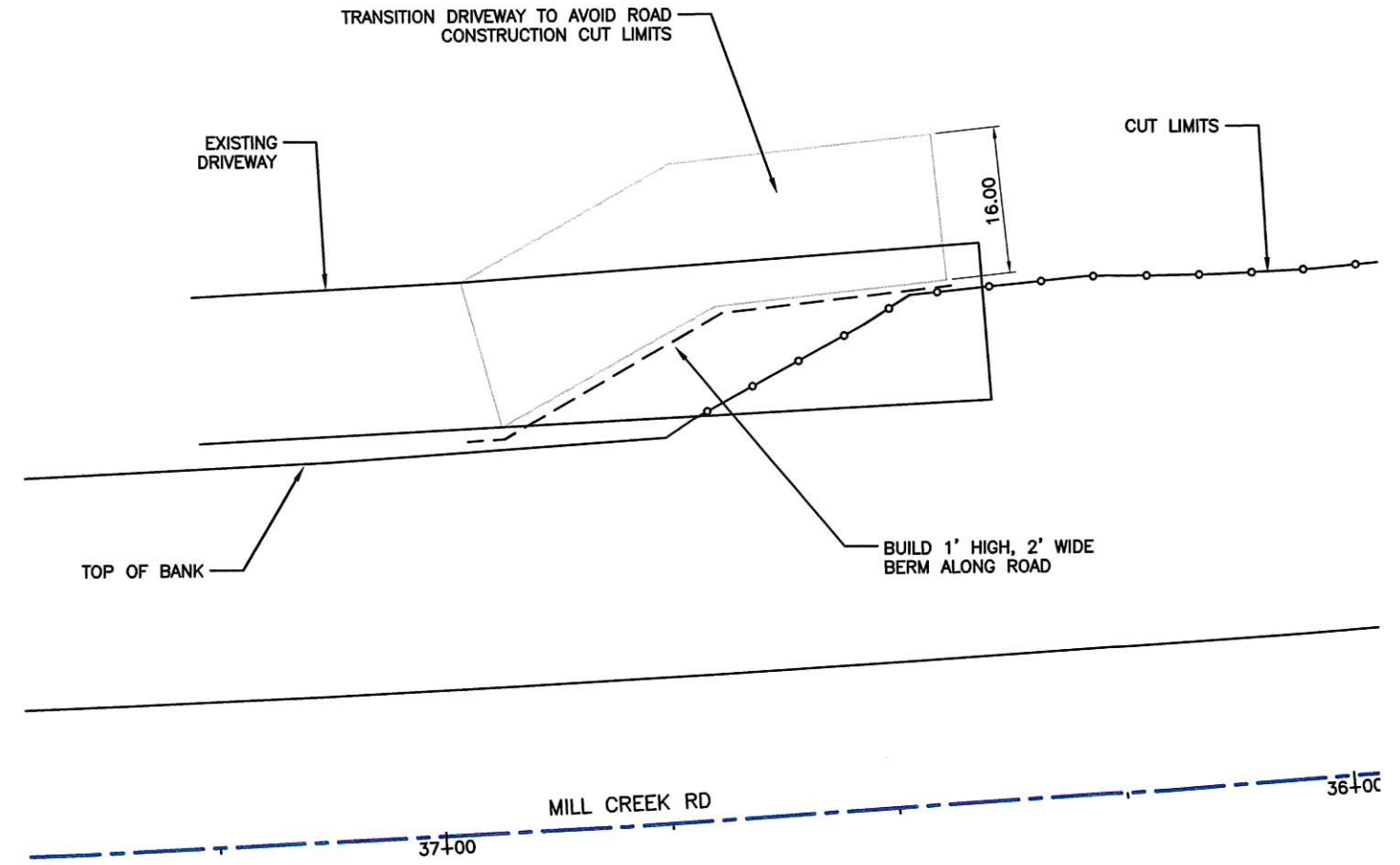
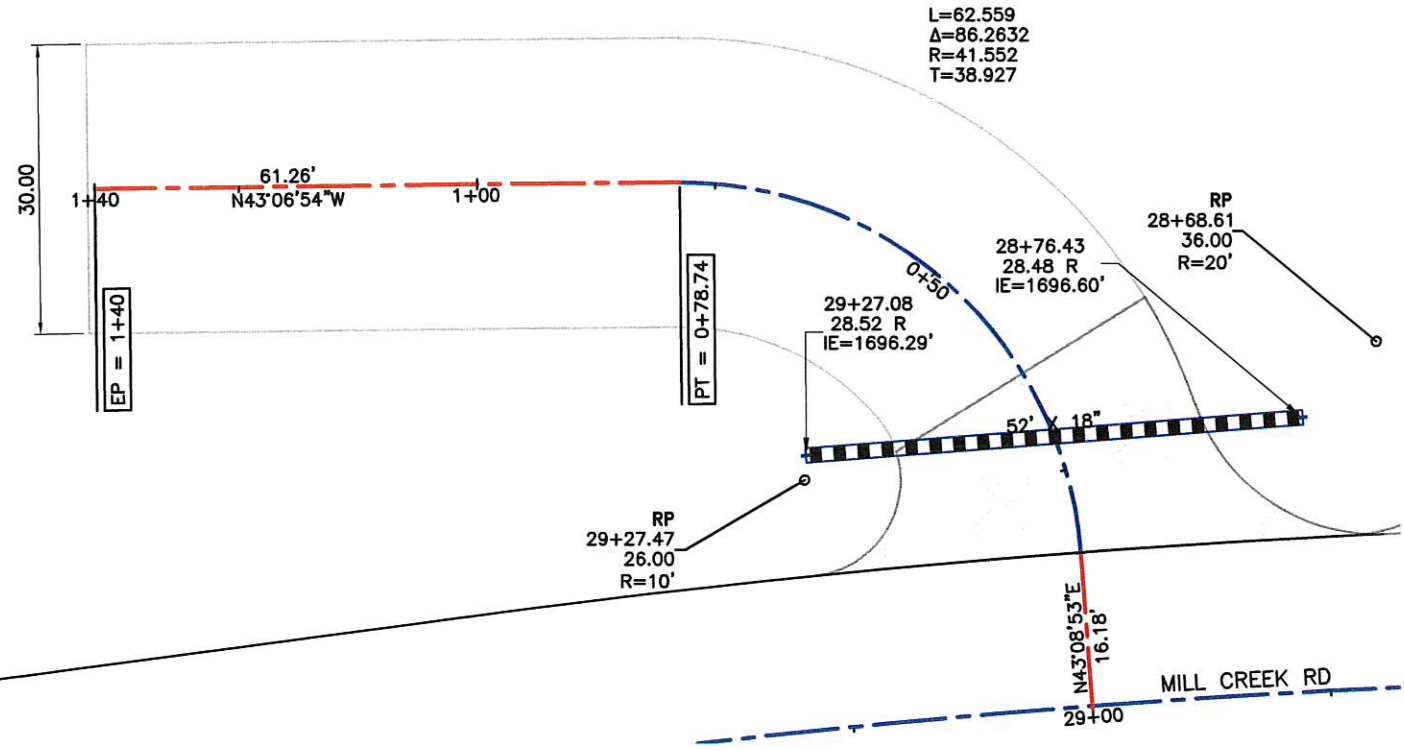
BLUE CREEK BRIDGE
APPROACH DETAILS

SHEET
16

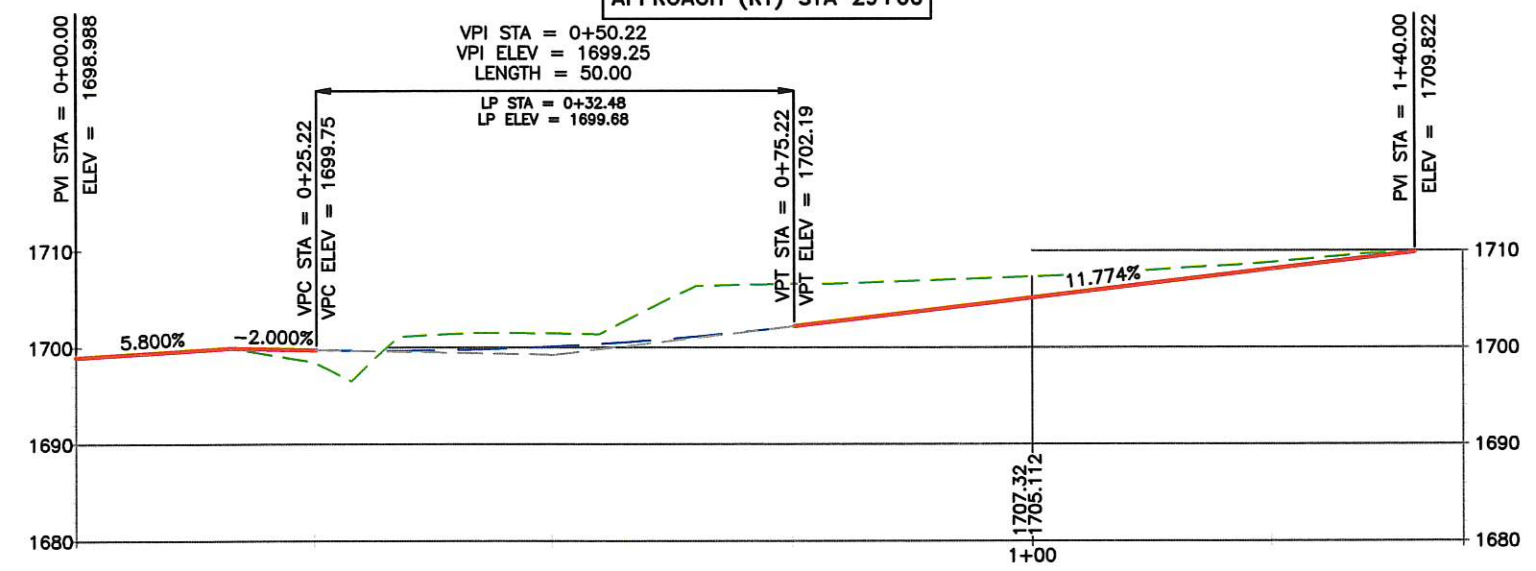


TYPICAL SECTION

SLOPE:
MATCH EDGE PAVEMENT STA 0+16.00
MATCH EXISTING AT END



APPROACH (RT) STA 29+00



DRAWN: TAS	REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: TAS	10	WASH	
CHECKED: TGM	JOB NUMBER		
PROJ. ENG.: DFE	15-01		
APPROVED BY: TGM	REV DATE	REVISION	BY APP'D
9/27/2017			

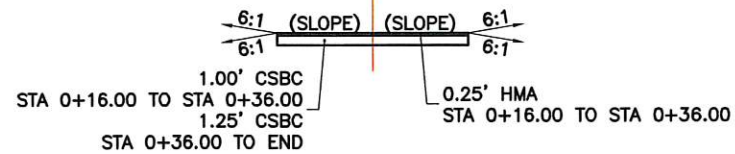
BRS-K364(005)
TA-5753



Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017
PLOT DATE

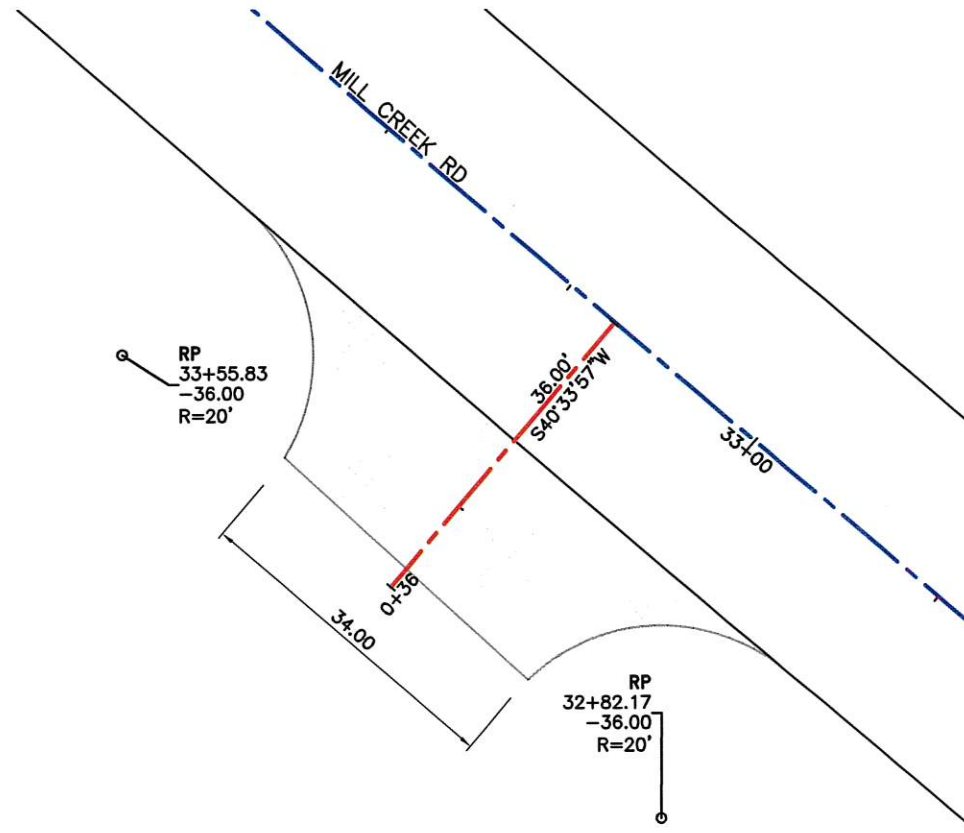
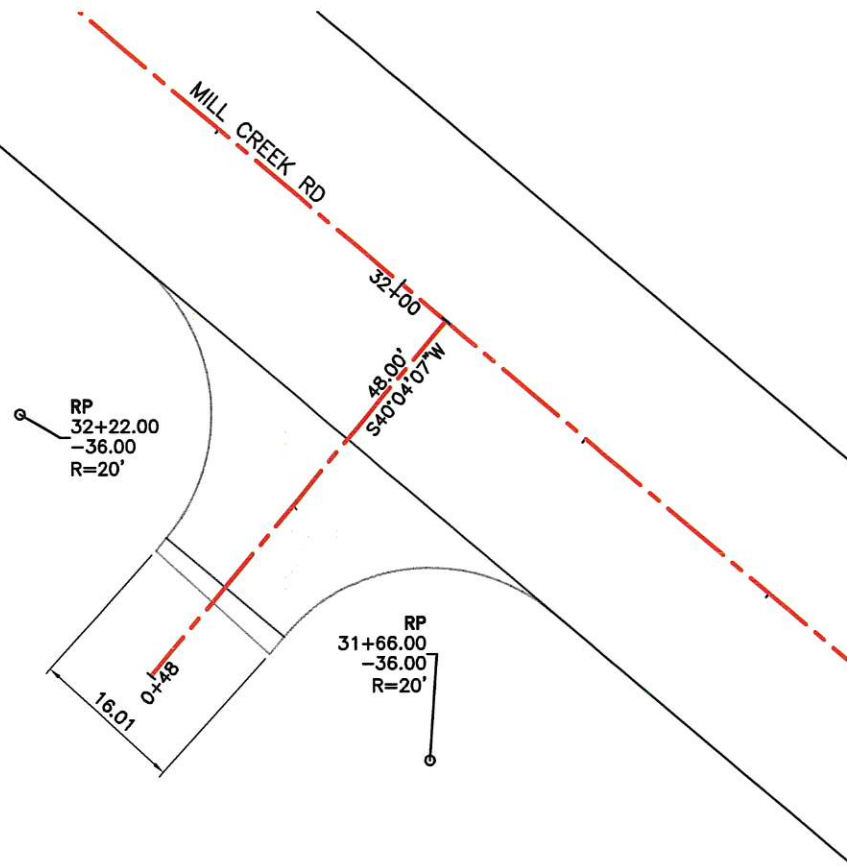


BLUE CREEK BRIDGE	SHEET
APPROACH DETAILS	17

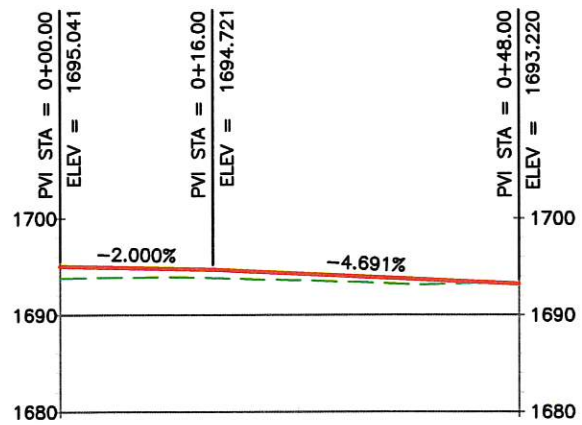


TYPICAL SECTION

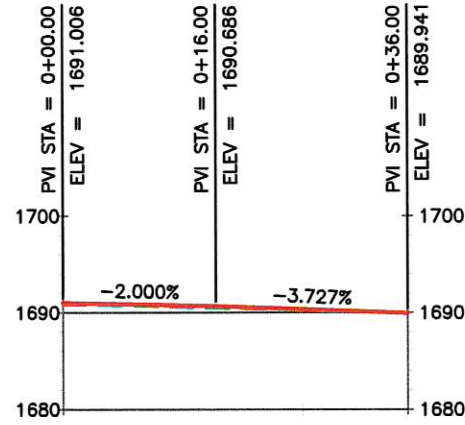
SLOPE:
MATCH EDGE PAVEMENT STA 0+16.00
MATCH EXISTING AT END



APPROACH (LT) STA 31+94



APPROACH (LT) STA 33+19



DRAWN: TAS				REGION NO.	STATE
DESIGNER: TAS				10	WASH
CHECKED: TGM				JOB NUMBER	
PROJ. ENG.: DFE				15-01	
APPROVED BY: TGM					
9/27/2017	REV DATE	REVISION	BY	APP'D	

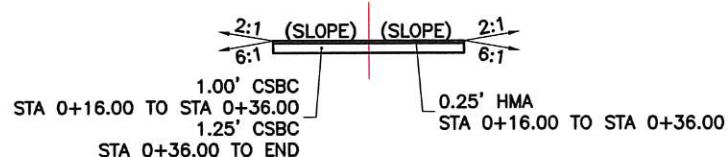
FED. AID PROJ. NO.
BRS-K364(005)
TA-5753



Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017
PLOT DATE

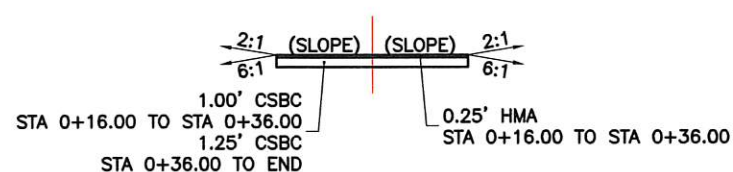


BLUE CREEK BRIDGE
APPROACH DETAILS



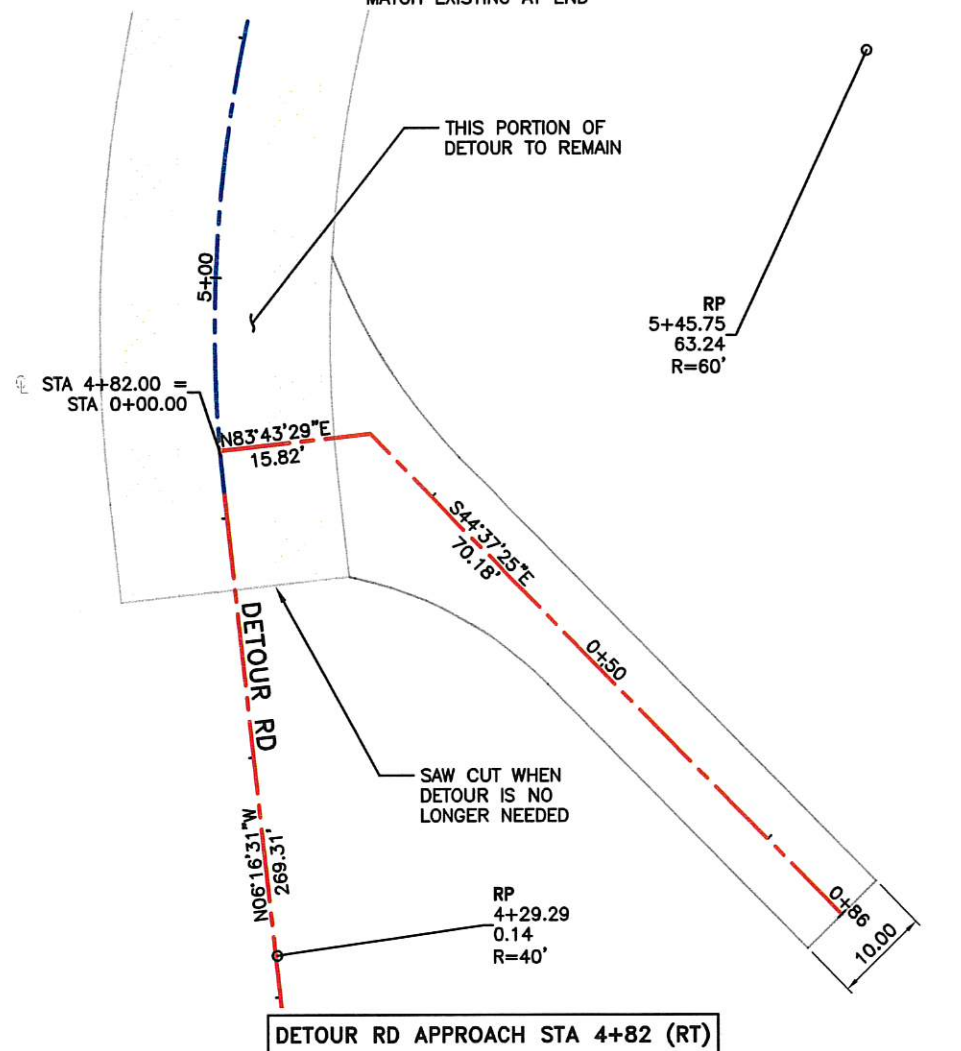
TYPICAL SECTION

SLOPE:
MATCH EDGE PAVEMENT STA 0+16.00
MATCH EXISTING AT END

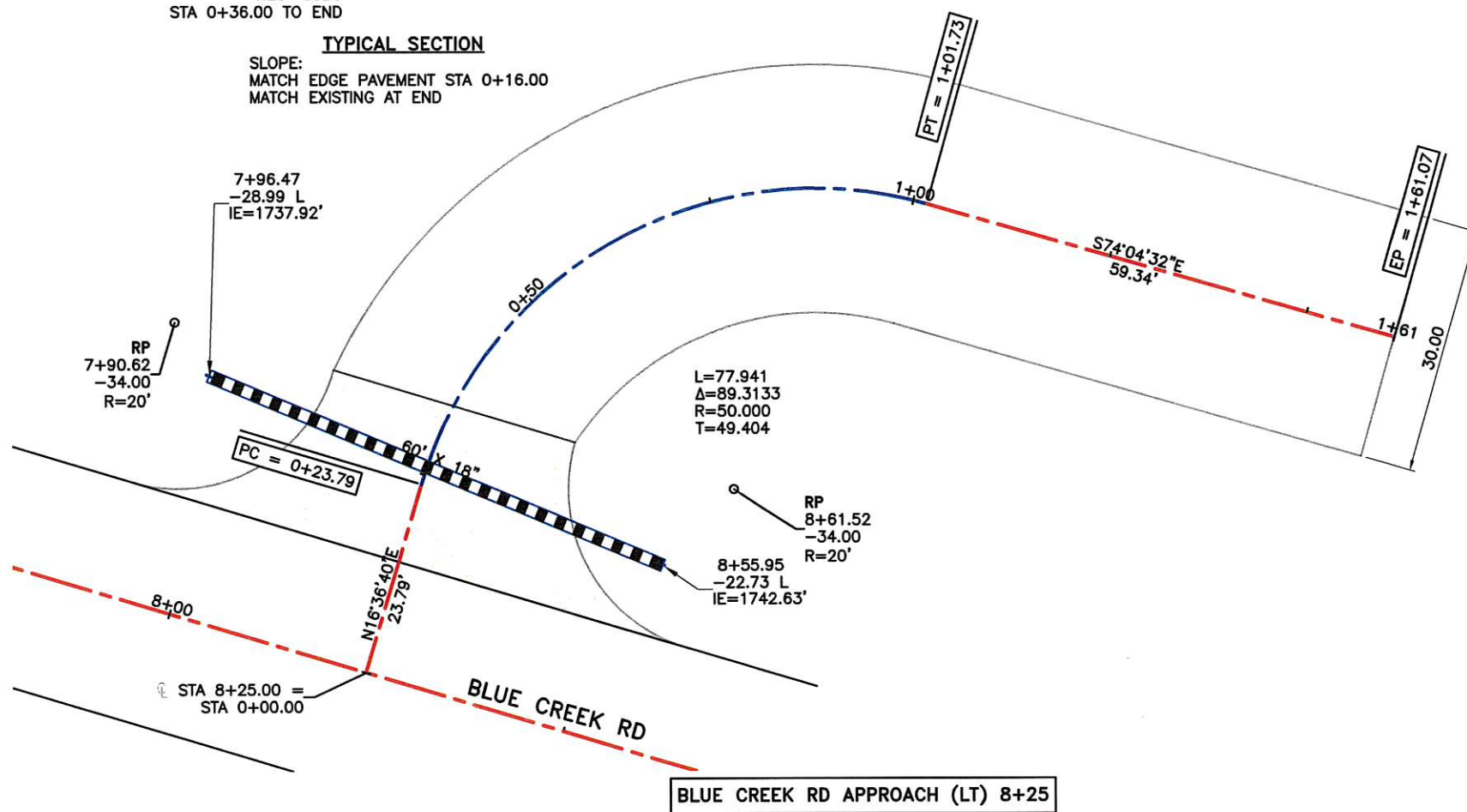
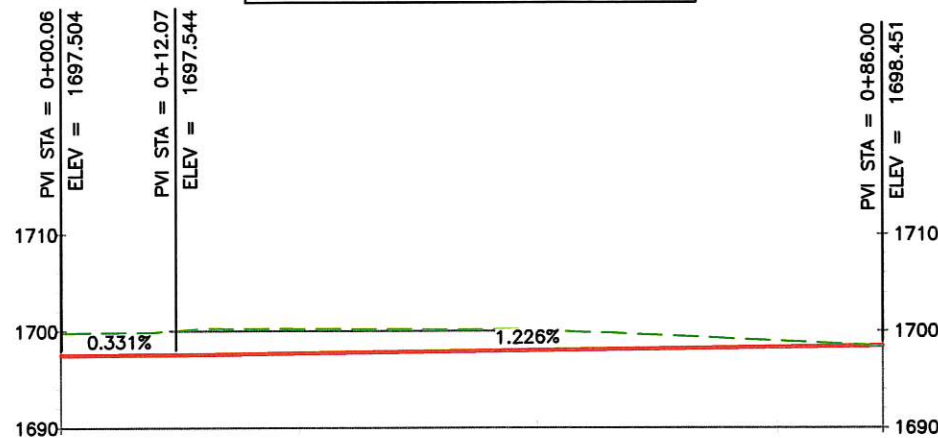


TYPICAL SECTION

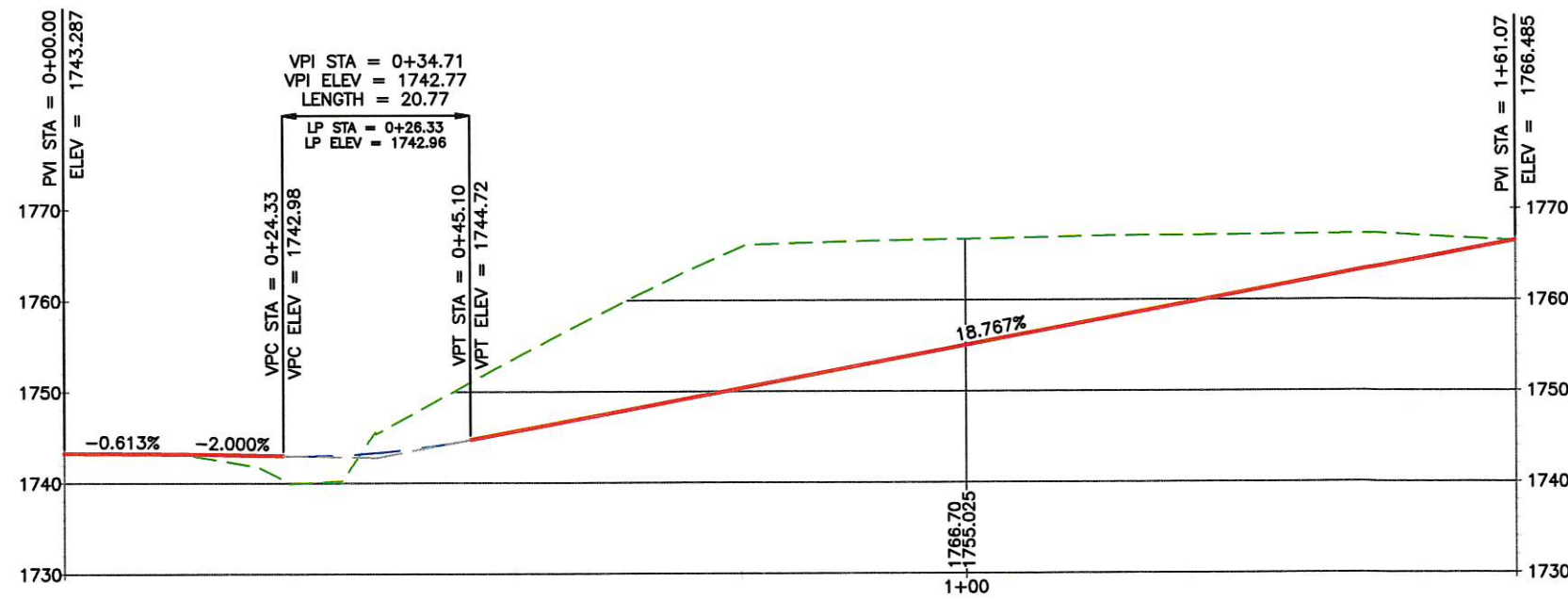
SLOPE:
MATCH EDGE PAVEMENT STA 0+16.00
MATCH EXISTING AT END



DETOUR RD APPROACH STA 4+82 (RT)



BLUE CREEK RD APPROACH (LT) 8+25



DRAWN: TAS				REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: TAS				10	WASH	
CHECKED: TGM				JOB NUMBER		
PROJ. ENG.: DFE				15-01		
APPROVED BY: TGM						
9/27/2017	REV DATE	REVISION	BY	APP'D		

BRS-K364(005)
TA-5753



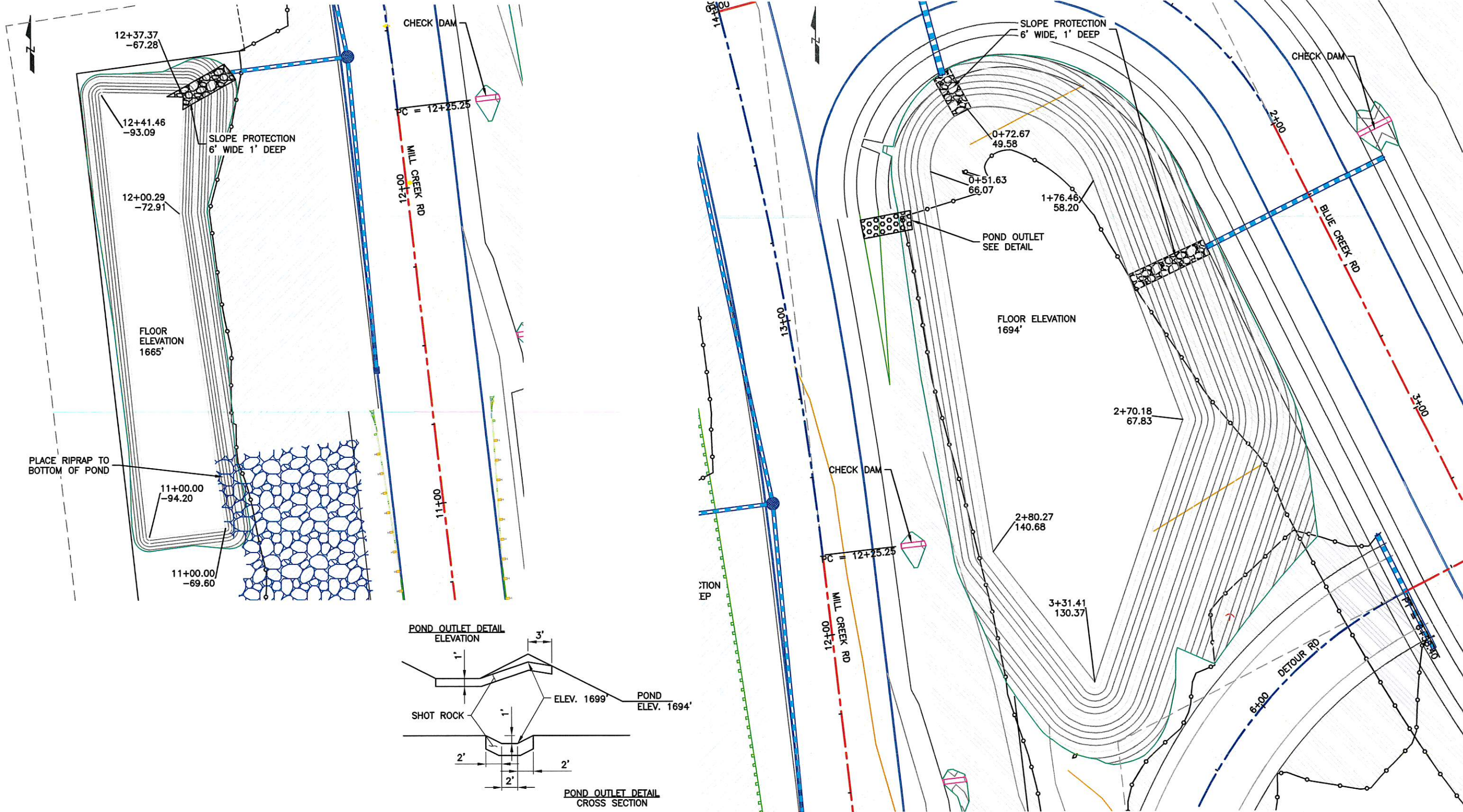
Walla Walla County
PUBLIC WORKS DEPARTMENT
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BLUE CREEK BRIDGE
APPROACH DETAILS

POND #1
 SIDE SLOPES 1:1
 OFFSETS AND STATIONS FROM MILL CREEK RD ALIGNMENT
 SLOPE PROTECTION NOT REQUIRED IF SOLID ROCK IS PRESENT

POND #2
 SIDE SLOPES 2:1
 OFFSETS AND STATIONS FROM BLUE CREEK RD ALIGNMENT
 CURVED SECTIONS FOLLOW BLUE CREEK RD ALIGNMENT
 SLOPE PROTECTION NOT REQUIRED IF SOLID ROCK IS PRESENT



DRAWN: SAH	REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNER: SAH	10	WASH	
CHECKED: TGM	JOB NUMBER		
PROJ. ENG.: DFE	15-01		
APPROVED BY: TGM	REV DATE	REVISION	BY APP'D
5/16/2017			

FED. AID PROJ. NO.
BRS-K364(005)
TA-5753

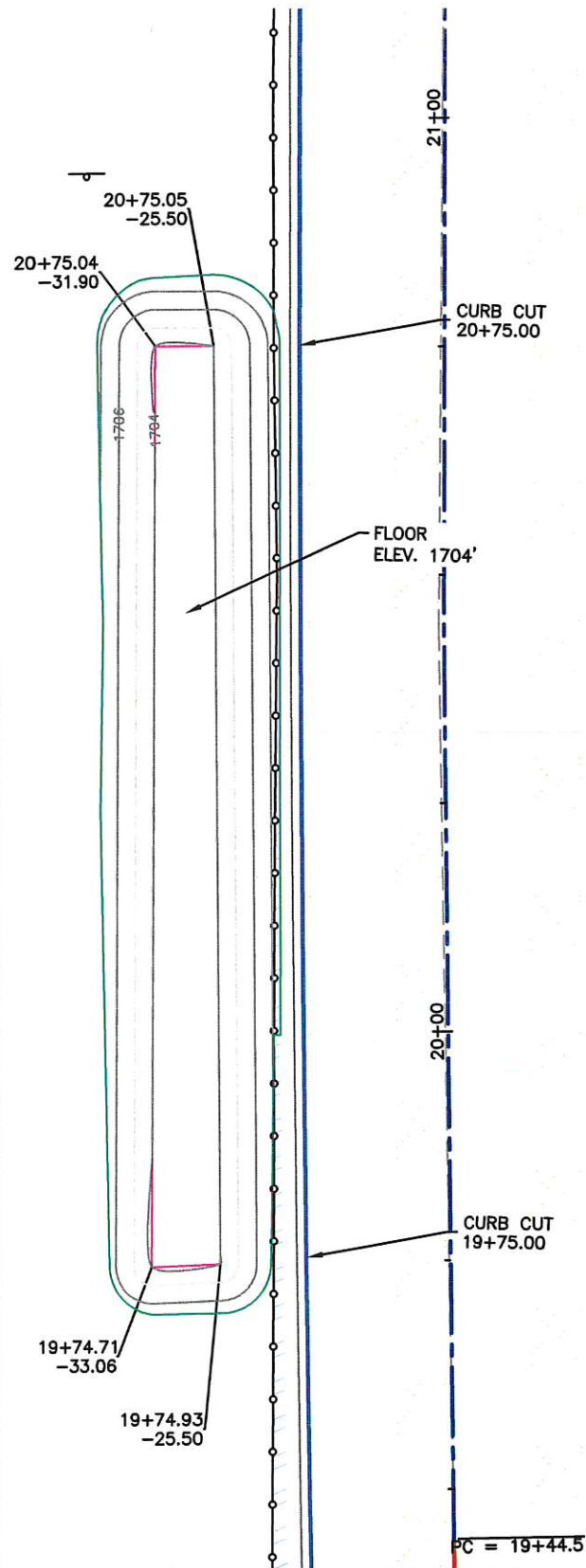


Walla Walla County
 PUBLIC WORKS DEPARTMENT
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BLUE CREEK BRIDGE
PONDS #1 & #2
 SHEET 20

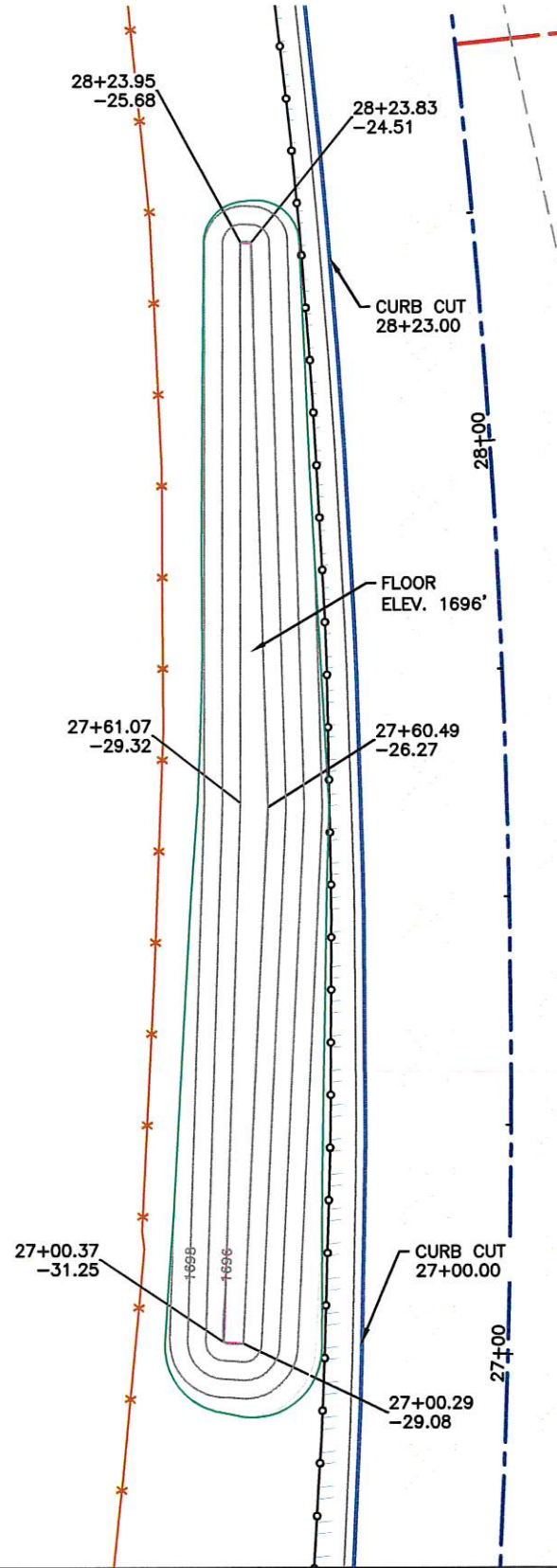
POND #4
SIDE SLOPES 2:1
OFFSETS AND STATIONS FROM MILL CREEK RD ALIGNMENT



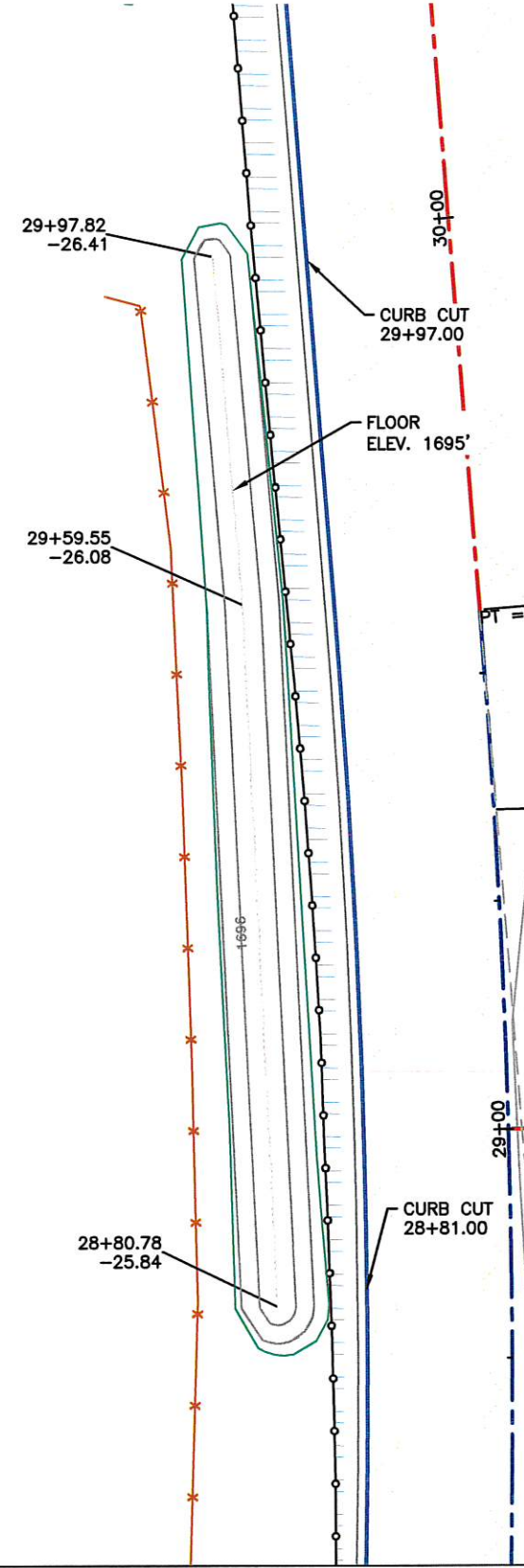
POND #5
SIDE SLOPES 2:1
OFFSETS AND STATIONS FROM MILL CREEK RD ALIGNMENT



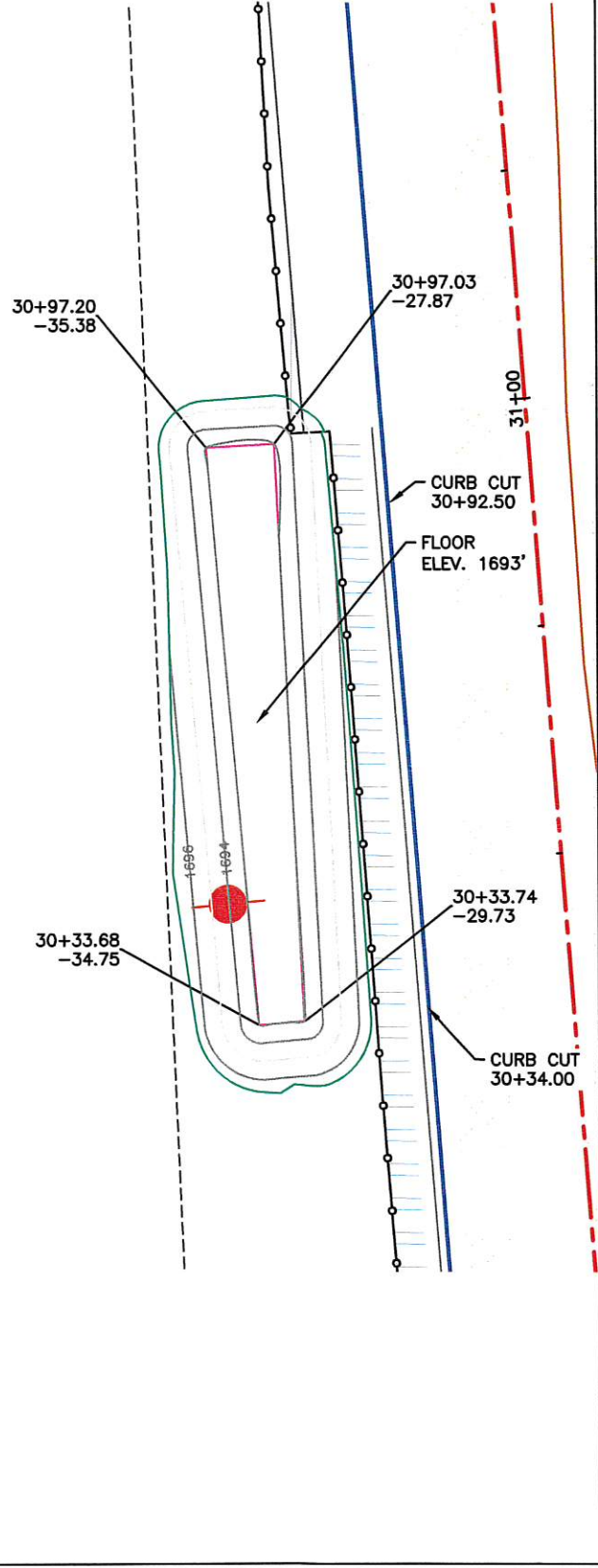
POND #6
SIDE SLOPES 2:1
OFFSETS AND STATIONS FROM MILL CREEK RD ALIGNMENT



POND #7
SIDE SLOPES 2:1
OFFSETS AND STATIONS FROM MILL CREEK RD ALIGNMENT



POND #8
SIDE SLOPES 2:1
OFFSETS AND STATIONS FROM MILL CREEK RD ALIGNMENT



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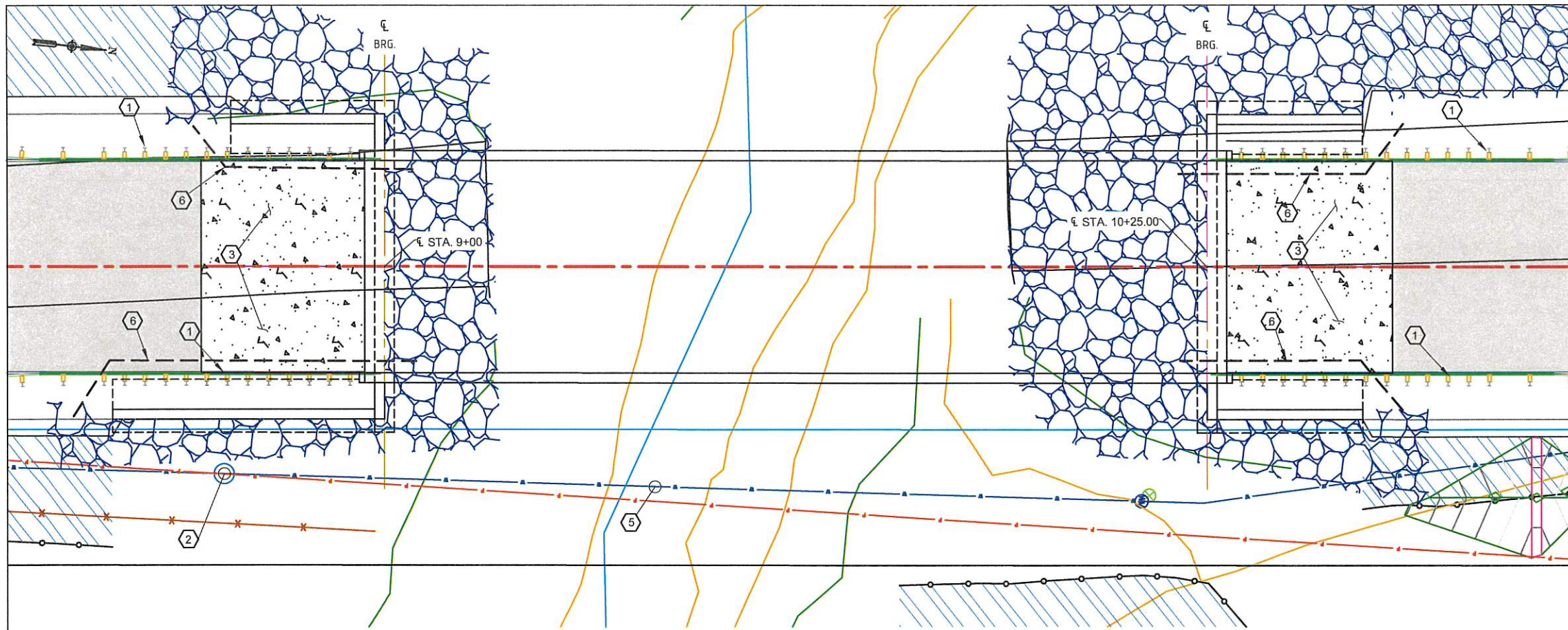
REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER	BRS-K364(005) TA-5753	
15-01		



Walla Walla County
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BLUE CREEK BRIDGE
PONDS #4 - #8
SHEET
21



BRIDGE GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: ALL MATERIAL AND WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE "2018 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, EXCEPT AS NOTED IN THESE PLANS, SPECIAL PROVISIONS, AND AMENDMENTS.

DESIGN SPECIFICATIONS: THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS FOR LOAD AND RESISTANCE FACTOR DESIGN IN THE "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS", 6TH EDITION, WITH 2013 INTERIM REVISIONS.

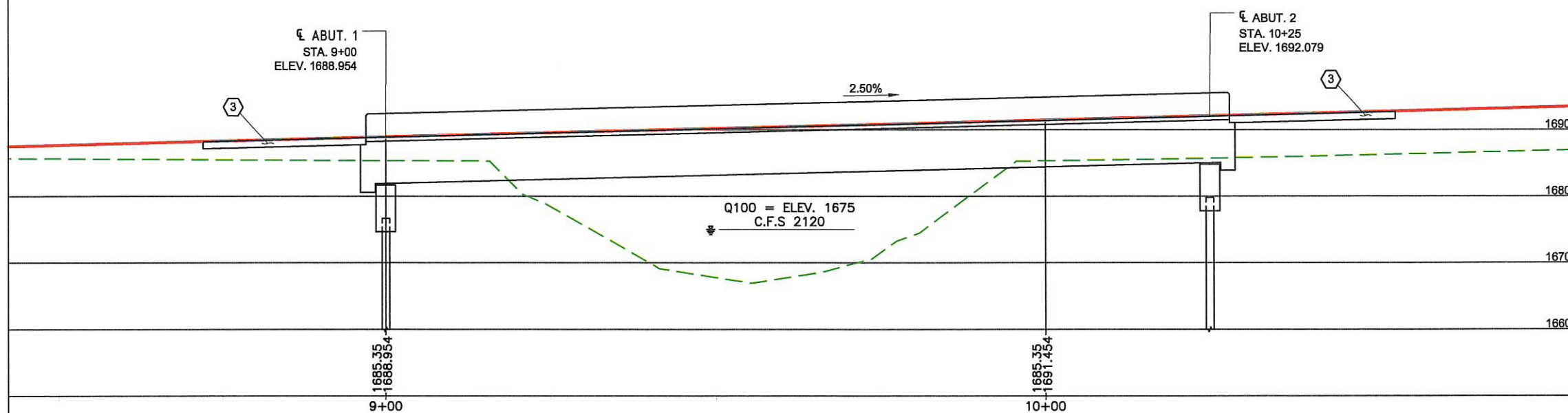
MATERIAL:
 CONCRETE (CAST-IN-PLACE): CLASS 4000
 CONCRETE (PRECAST GIRDERS): SEE GIRDER DETAILS
 REINFORCING STEEL: ASTM A-706, GRADE 60
 PRESTRESSING STEEL: SEE GIRDER DETAILS

FINISHING:
 ALL EXPOSED CAST-IN-PLACE SURFACES ABOVE THE FINISHED GRADE NOT FINISHED WITH FORM LINERS TO RECEIVE A CLASS 1 FINISH. OF THE GIRDERS, ONLY THE EXTERIOR FACE OF THE EXTERIOR GIRDERS SHALL RECEIVE A CLASS 1 FINISH. ALL EXPOSED EDGES OF CAST-IN-PLACE CONCRETE SHALL BE CHAMFERED WITH A 1" (DIAGONAL LENGTH) CHAMFER. ALL EXPOSED CAST-IN-PLACE CONCRETE SURFACES TO RECEIVE A PIGMENTED SEALER.

OTHER:
 UNLESS OTHERWISE SHOWN ON THE PLANS, CONCRETE COVER FROM THE FACE OF CONCRETE TO REINFORCING BARS SHALL BE 2" (3" FOR CONCRETE CAST AGAINST SOIL).

UNLESS OTHERWISE SHOWN, THE MINIMUM REINFORCING BAR SPLICE LENGTH SHALL BE 2'-0".

- ABBREVIATIONS:**
- PG - PROFILE GRADE
 - ABUT - ABUTMENT
 - BK - BACK
 - EF - EACH FACE
 - TYP - TYPICAL
 - BF - BACK FACE
 - NF - NEAR FACE
 - OC - ON CENTER
 - FF - FAR FACE
 - ES - EQUALLY SPACED
 - CLR - CLEAR
 - BRG - BEARING



ALL PILING SHALL BE DRIVEN TO REFUSAL ON THE UNDERLYING BEDROCK

ABUTMENT	MIN ULTIMATE BEARING (TONS)	MIN TIP ELEVATION	ESTIMATED TIP ELEVATION
1	150	1658.0	1649.5
2	125	1659.3	1654.4

ALL PILING SHALL BE HP 14X89 Fy = 50KSI MEETING THE MATERIAL REQUIREMENTS OF ASTM A992 WITH REINFORCED PILE TIPS

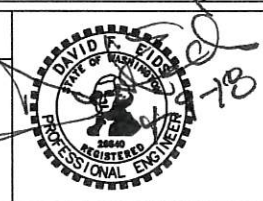
DESIGN LIVE LOAD: HL93

CONSTRUCTION NOTES

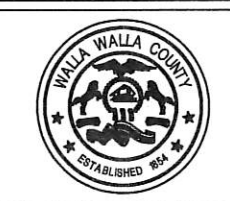
- ① BEAM GUARDRAIL (TYPE 31) GUARDRAIL PLACEMENT CASE 5, STD. PLAN C-2A, REDUCER SECTION TYPE B, STD. PLAN C-1D, BEAM GUARDRAIL TRANSITION SECTION TYPE 1, STD. PLAN C-3, THRIE BEAM END SECTION DESIGN F, STD. PLAN C-7A, GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER, D CONNECTION, STD. PLAN C-24.10-01
- ② MANHOLE
- ③ APPROACH SLAB (34' TOTAL WIDTH), SEE WSDOT STD PLAN A-40.50-01.
- ④
- ⑤ DO NOT DISTURB 30" TRANSMISSION WATERLINE
- ⑥ 6" SCHEDULE 40 PVC CONDUIT EXTENDED 1' PAST END DIAPHRAGM, CAP EACH END.

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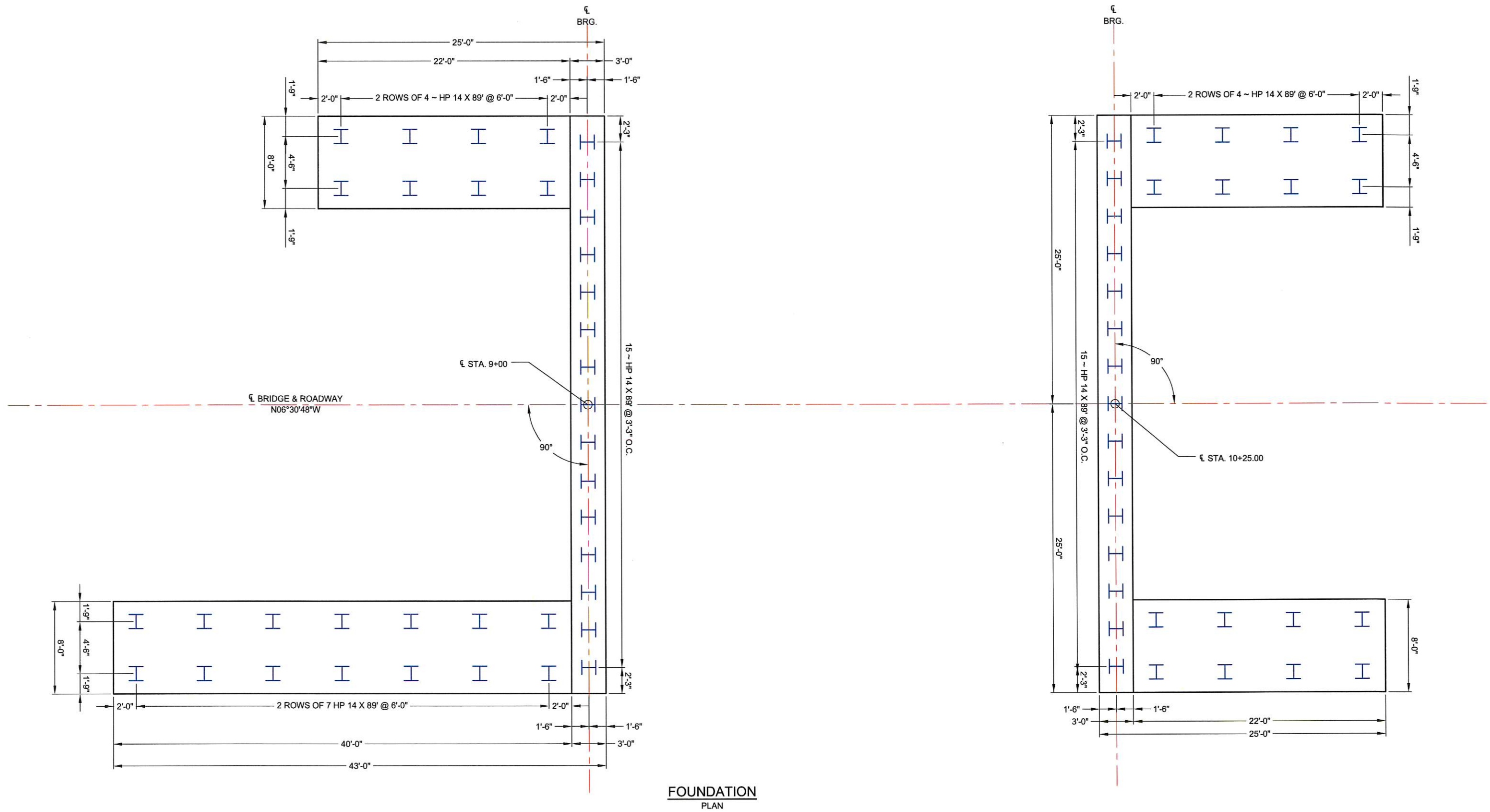
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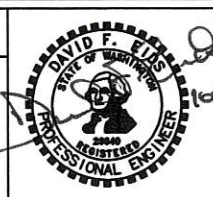
BLUE CREEK BRIDGE
BRIDGE LAYOUT
 SHEET B1



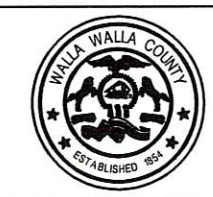
FOUNDATION
PLAN

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APPROVED BY: TGM						
6/14/2017	REV DATE	REVISION	BY	APP'D		

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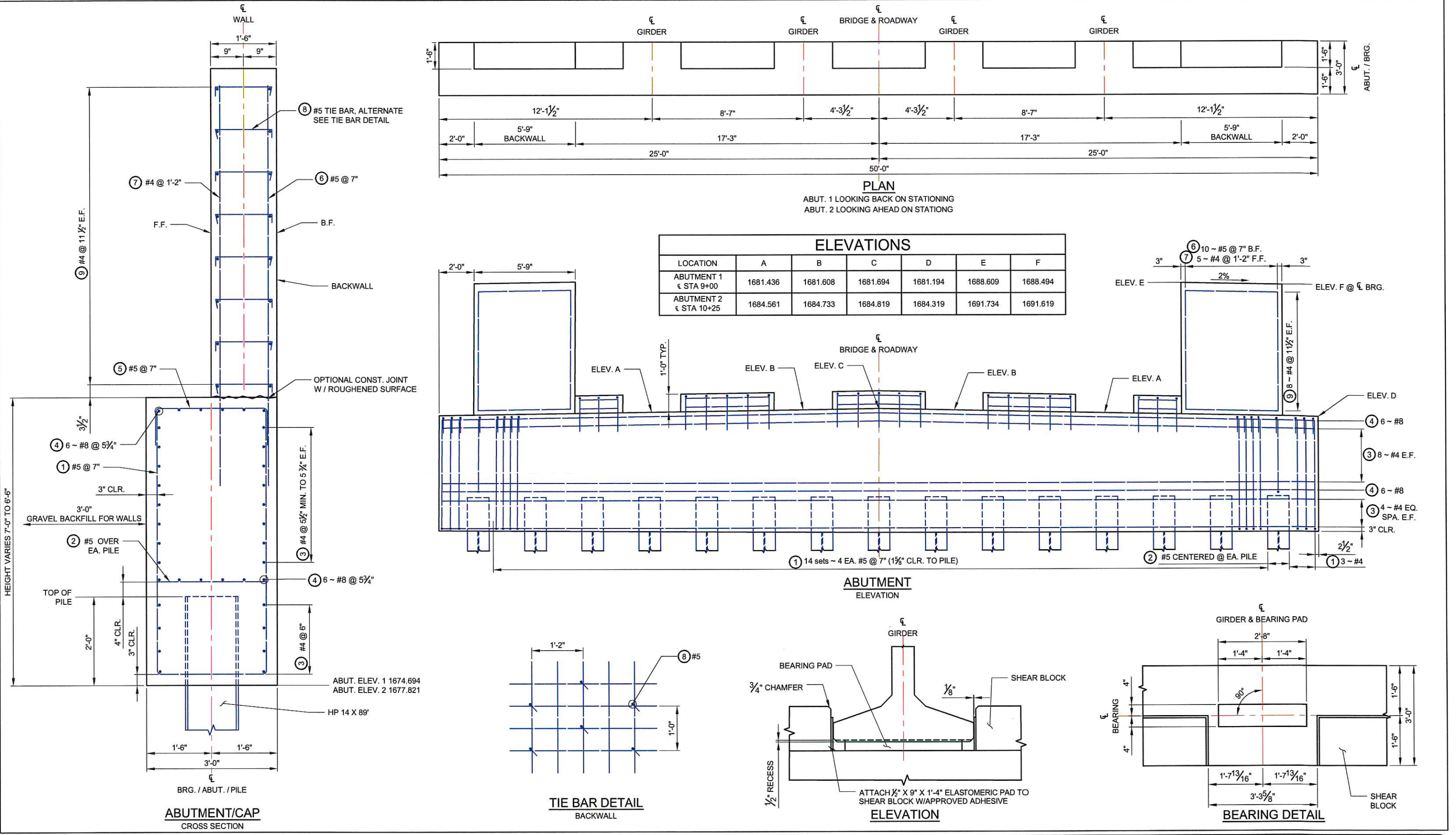


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BLUE CREEK BRIDGE
PILE LAYOUT

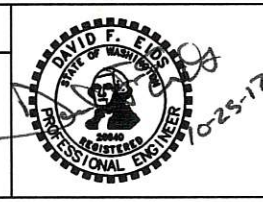
SHEET
F1



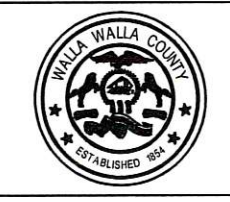
ELEVATIONS						
LOCATION	A	B	C	D	E	F
ABUTMENT 1 € STA 9+00	1681.436	1681.608	1681.694	1681.194	1688.609	1688.494
ABUTMENT 2 € STA 10+25	1684.561	1684.733	1684.819	1684.319	1691.734	1691.619

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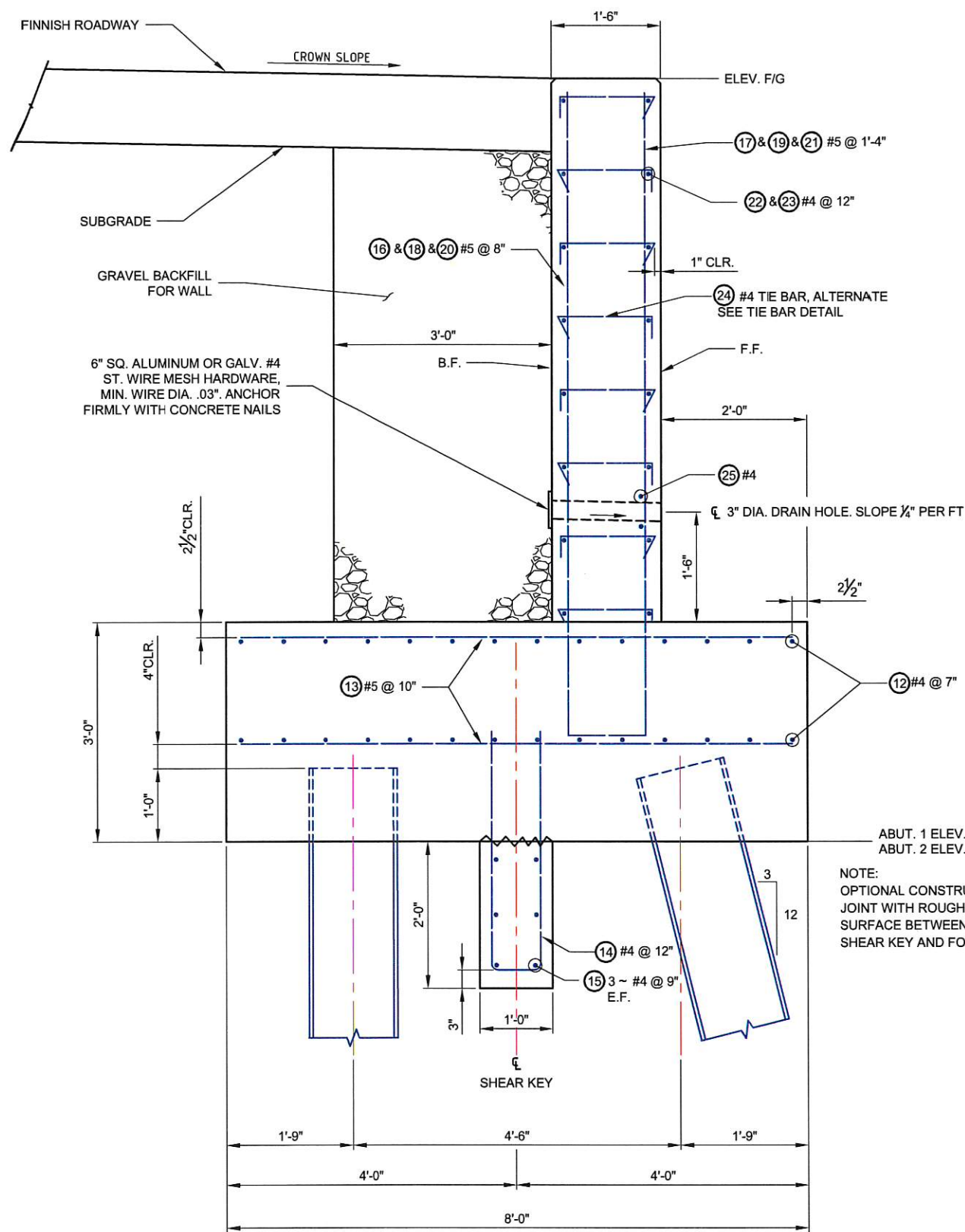
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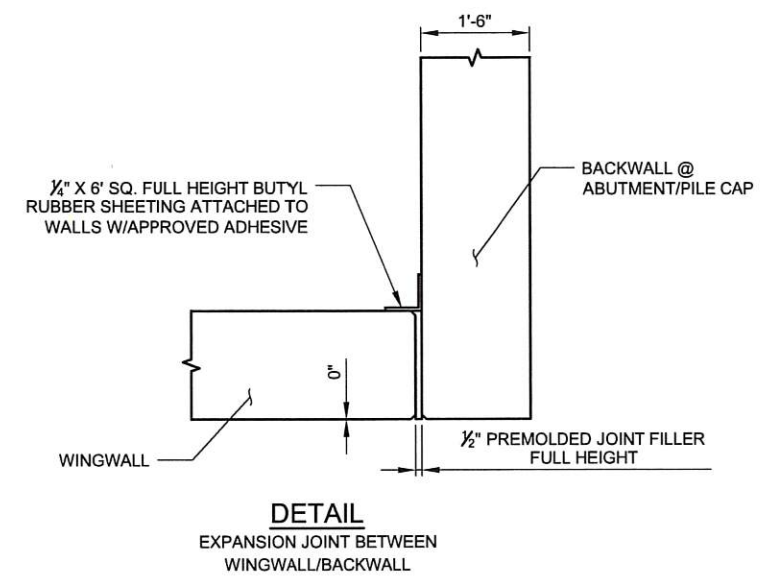
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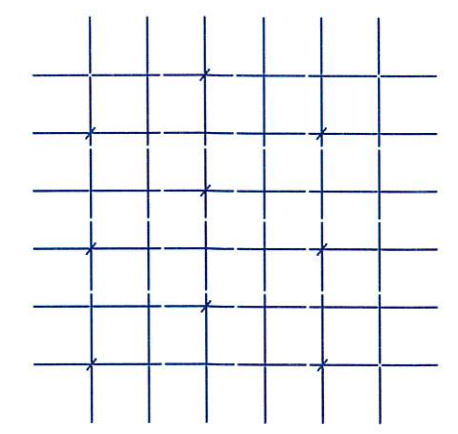
BLUE CREEK BRIDGE
ABUTMENT
SHEET **F2**



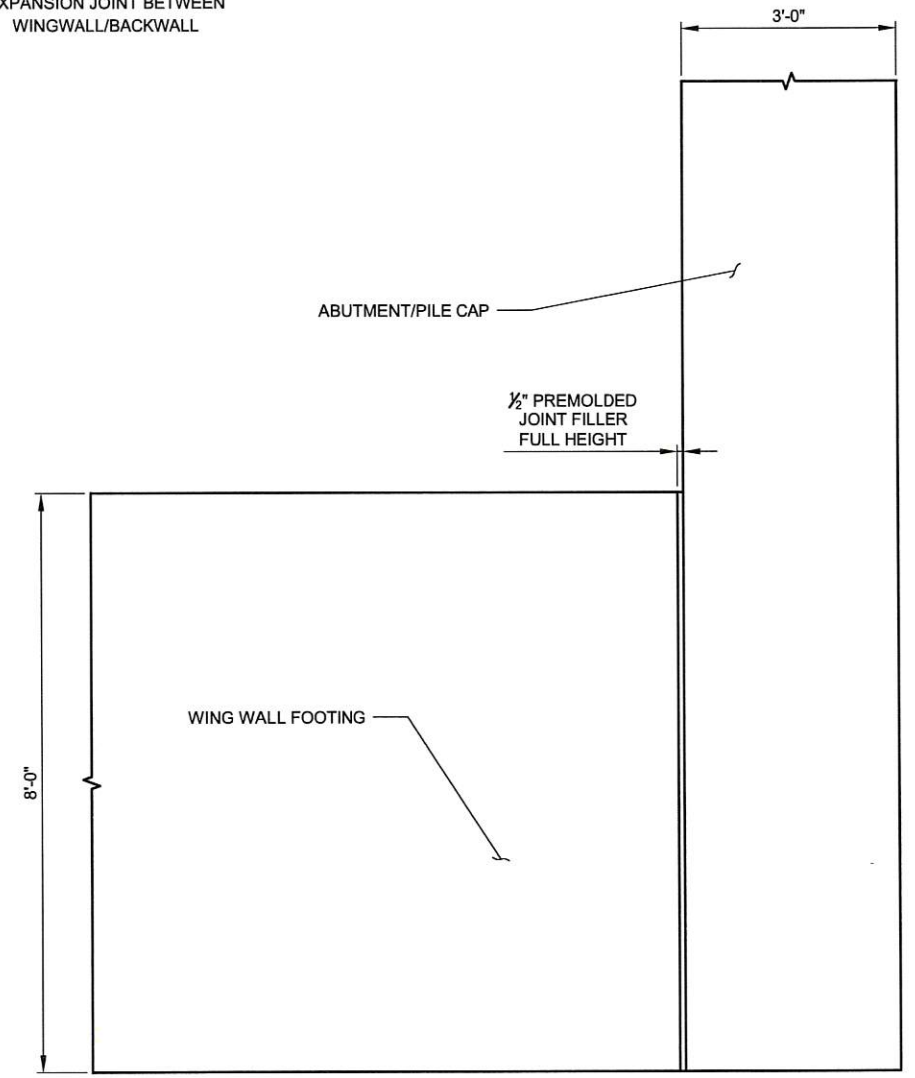
SECTION
WINGWALL



DETAIL
EXPANSION JOINT BETWEEN
WINGWALL/BACKWALL



TIE BAR DETAIL
WINGWALL



DETAIL
EXPANSION JOINT BETWEEN
WING WALL FOOTING AND
ABUTMENT/PILE CAP

WINGWALL ELEVATION		
LOCATION	F	G
ABUT. 1 SW	1688.494	1687.908
ABUT. 1 SE	1688.494	1687.701
ABUT. 2 NW	1691.619	1692.207
ABUT. 2 NE	1691.619	1692.207

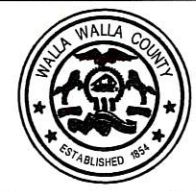
ABUT. 1 ELEV. 1674.694
ABUT. 2 ELEV. 1677.821
NOTE:
OPTIONAL CONSTRUCTION
JOINT WITH ROUGHENED
SURFACE BETWEEN
SHEAR KEY AND FOOTING.

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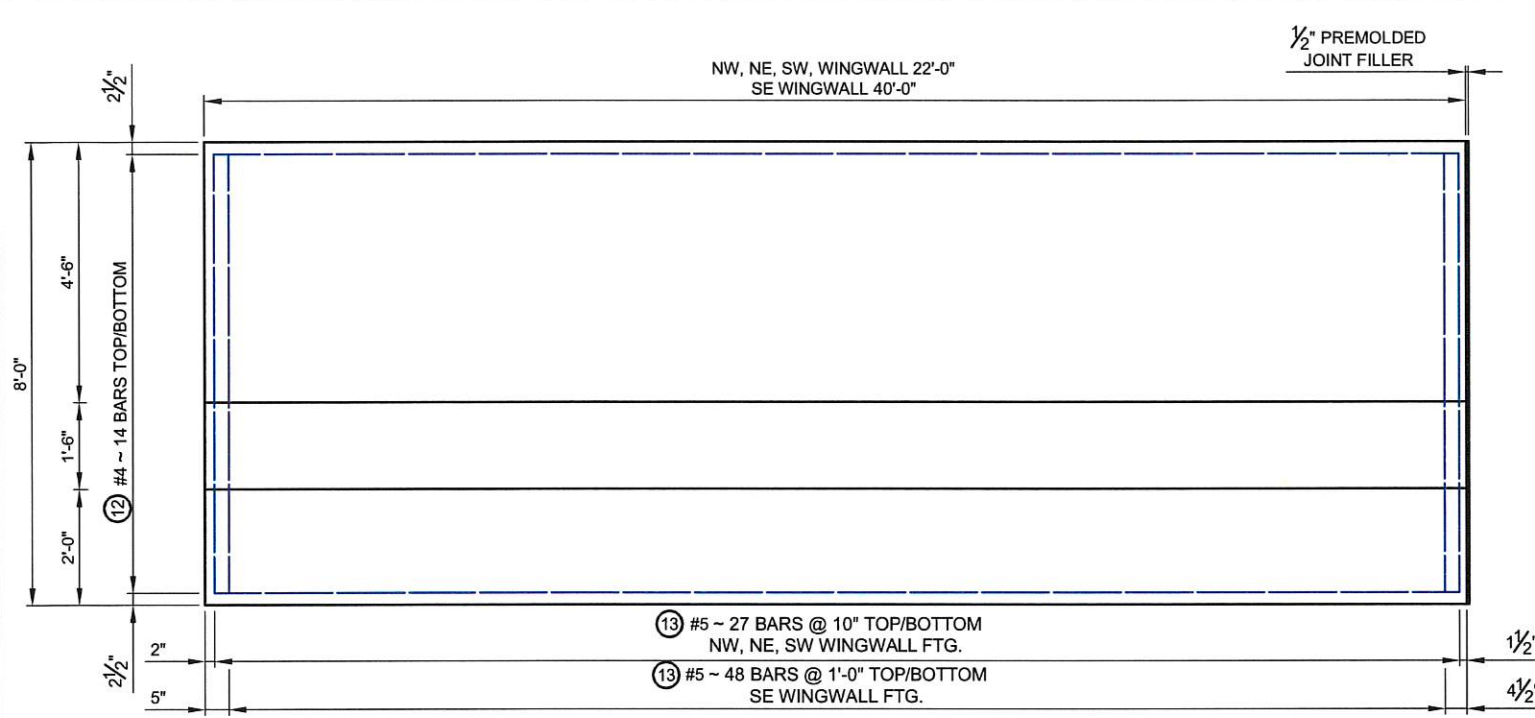
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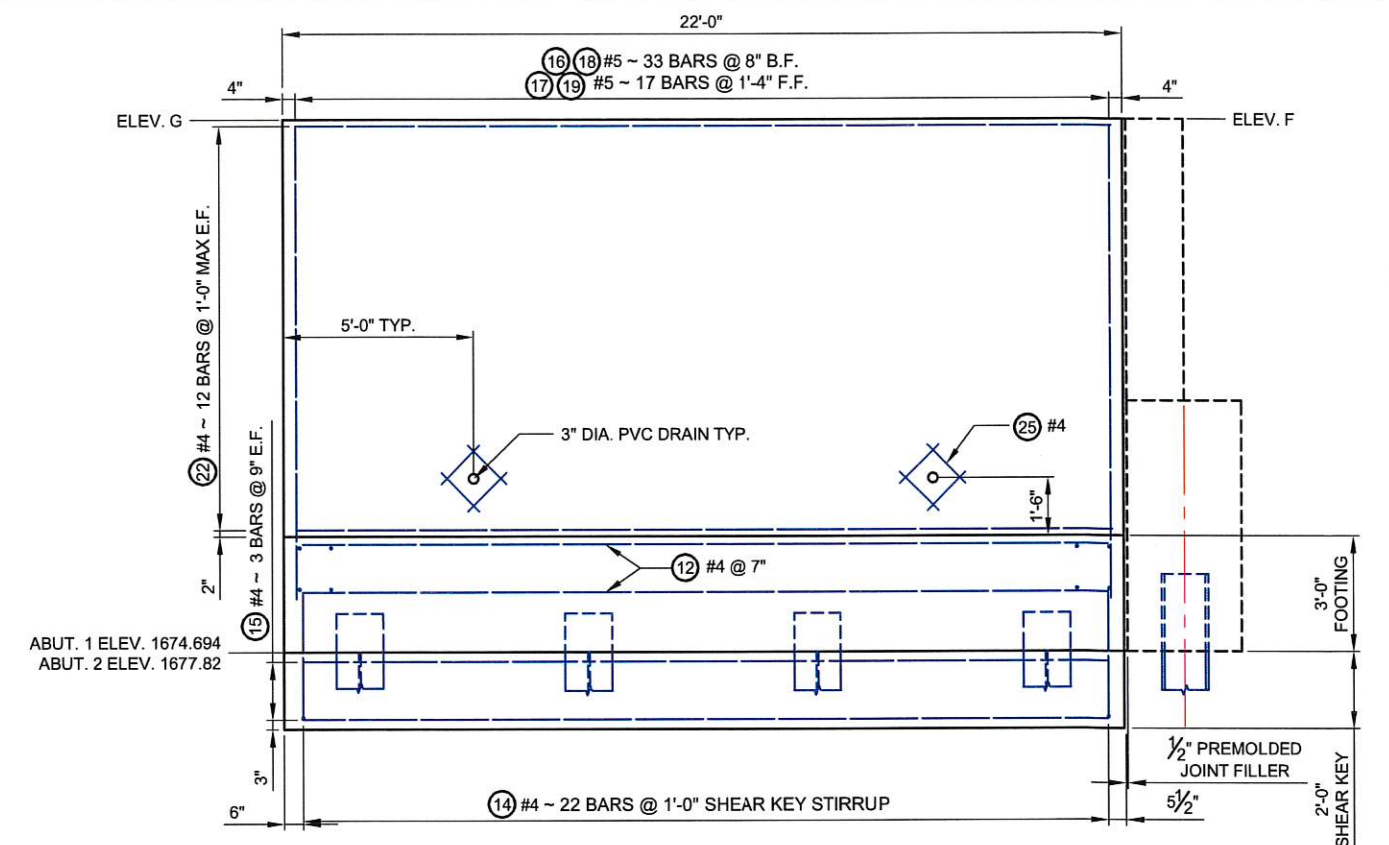
Walla Walla County
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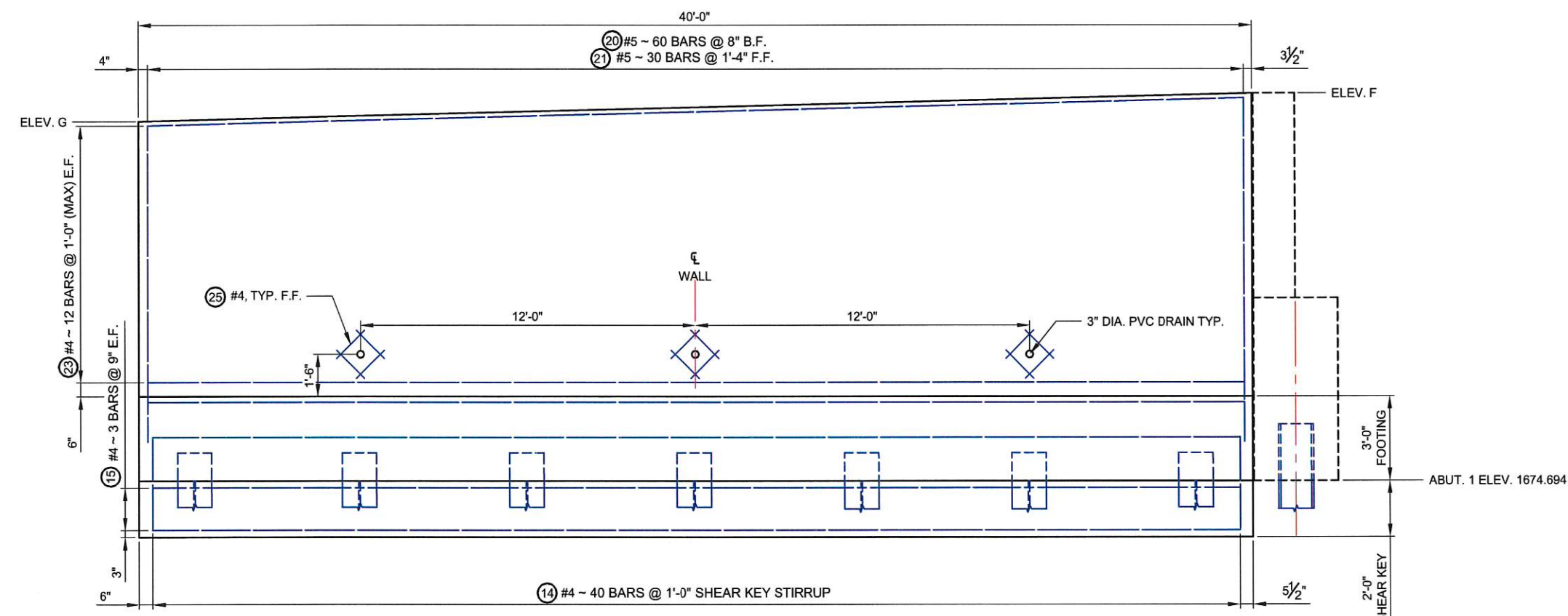
BLUE CREEK BRIDGE
WINGWALL DETAILS
SHEET
F3



PLAN
WINGWALL



ELEVATION
NW, NE, SW WINGWALLS



ELEVATION
SE WINGWALL

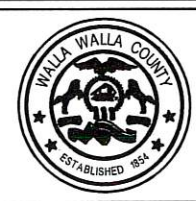
WINGWALL ELEVATION		
LOCATION	F	G
ABUT. 1 LT (SW)	1688.494	1687.908
ABUT. 1 RT (SE)	1688.494	1687.701
ABUT. 2 LT (NW)	1691.619	1692.207
ABUT. 2 RT (NE)	1691.619	1692.207

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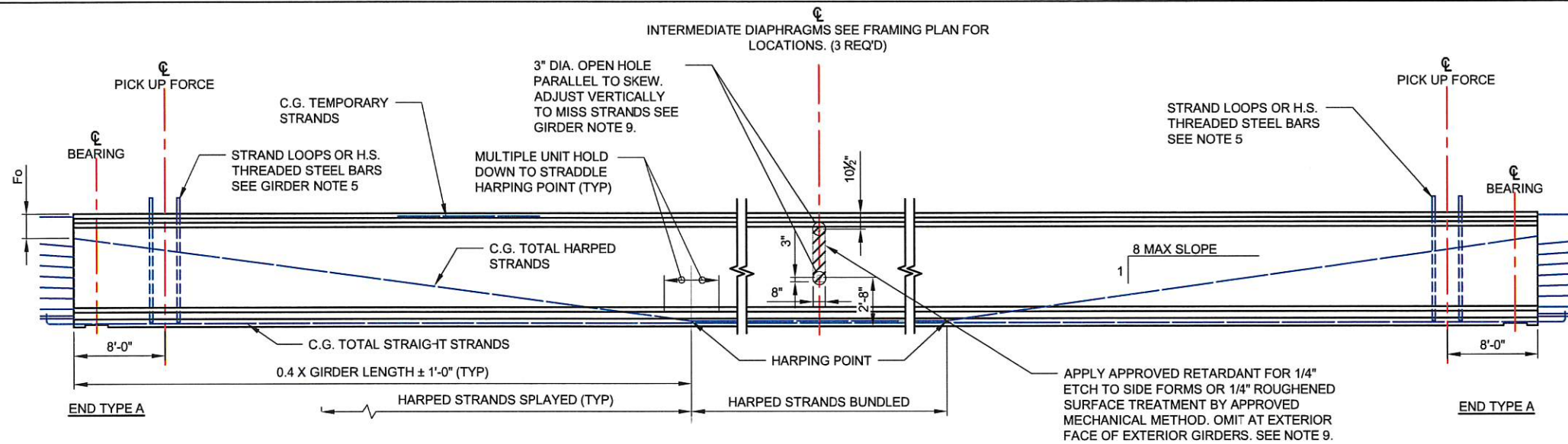
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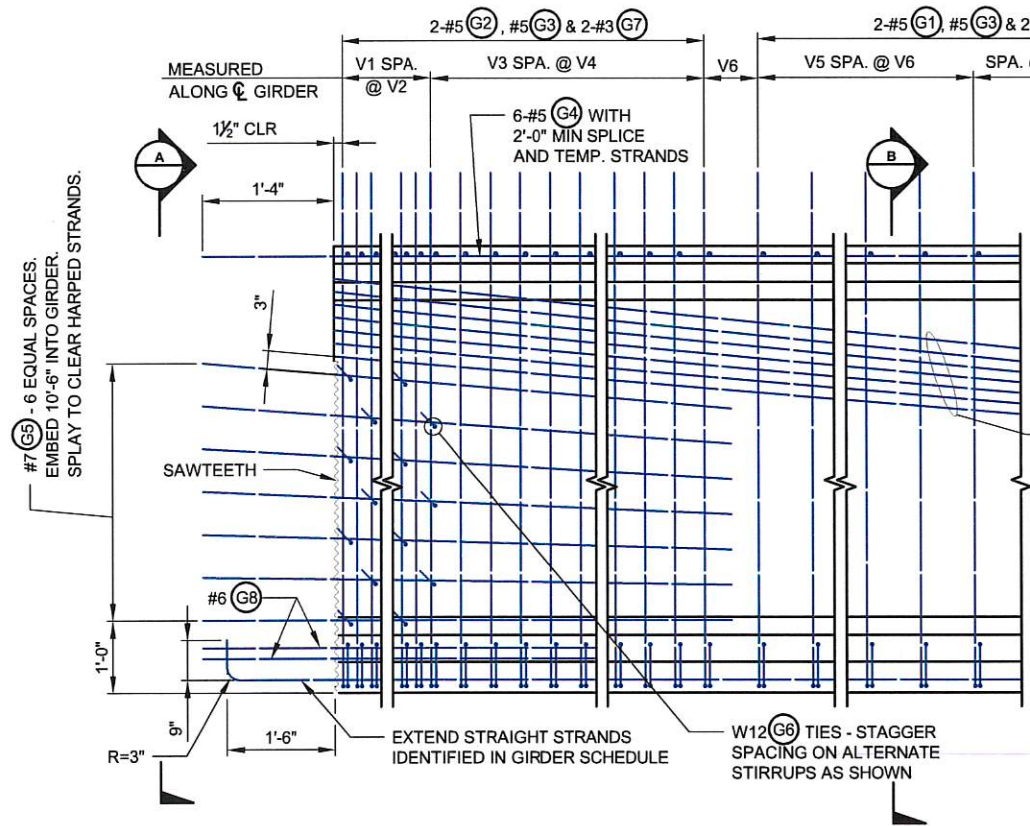
BLUE CREEK BRIDGE
WINGWALL
SHEET
F4



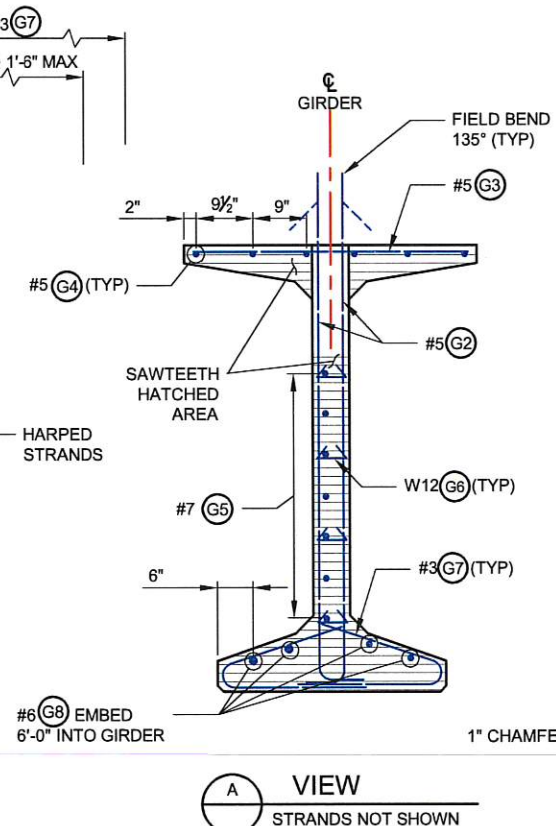
TYPICAL GIRDER ELEVATION

GIRDER GENERAL NOTES

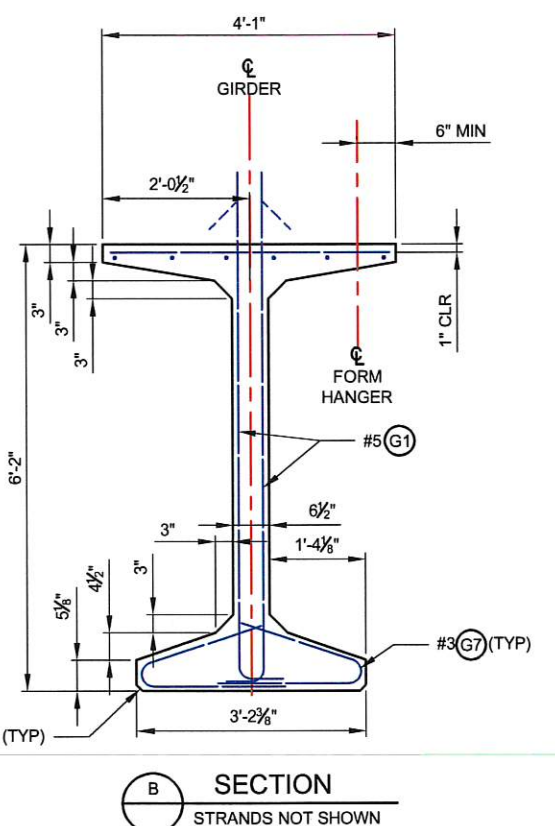
1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI.
3. CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
4. THE TOP SURFACE OF THE GIRDER FLANGE SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
5. LIFTING EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 6-02.3(25)J OF THE STANDARD SPECIFICATIONS.
6. CAUTION SHALL BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING. ONCE ERECTED, ALL GIRDERS SHALL BE BRACED LATERALLY TO PREVENT TIPPING UNTIL THE DIAPHRAGMS ARE CAST AND CURED.
7. FORMS FOR BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER AS TO NOT CAUSE DAMAGE TO THE GIRDER DURING THE STRAND RELEASE OPERATION.
8. TEMPORARY TOP STRANDS SHALL BE EITHER PRETENSIONED OR POST-TENSIONED IN ACCORDANCE WITH SECTION 6-02.3(25)I OF THE STANDARD SPECIFICATIONS AND THE GIRDER DETAILS SHEETS. THE LIFTING LOCATION "L" AND CONCRETE RELEASE STRENGTH "F" CI SHOWN IN THE GIRDER SCHEDULE ASSUME THAT THE TEMPORARY TOP STRANDS ARE PRETENSIONED. ALTERNATIVELY, POST-TENSIONED TEMPORARY TOP STRANDS MAY BE USED IF THE LIFTING POINTS IN THE GIRDER SCHEDULE ARE MAINTAINED AND THE STRANDS ARE STRESSED PRIOR TO LIFTING THE GIRDER FROM THE FORM.
9. FOR DIAPHRAGMS, OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. INSERTS SHALL BE 1"Ø MEADOWBURKE MX-3 HI-TENSILE, 1"Ø x 5 1/2" WILLIAMS F22 OPEN FERRULE INSERT, 1"Ø x 4Ø DAYTON-SUPERIOR F-62 FLARED THIN SLAB FERRULE INSERT OR APPROVED EQUAL.
10. DEFORMED WELDED WIRE REINFORCEMENT CONFORMING TO SECTION 9-07.7 WITH DEFORMED WIRE CONFORMING TO SECTION 9-07.8 MAY BE SUBSTITUTED FOR MILD STEEL REINFORCEMENT IF AASHTO LRFD BRIDGE DESIGN SPECIFICATION REQUIREMENTS (INCLUDING DEVELOPMENT AND ANCHORAGE) ARE MET. WELDED WIRE REINFORCEMENT SHALL HAVE THE SAME AREA AND SPACING AS THE MILD STEEL REINFORCEMENT THAT IT REPLACES AND THE YIELD STRENGTH SHALL BE GREATER THAN OR EQUAL TO 60 KSI. SHEAR STIRRUP LONGITUDINAL WIRES AND TACK WELDS SHALL BE EXCLUDED FROM GIRDER WEBS. LONGITUDINAL WIRES FOR ANCHORAGE OF WELDED WIRE REINFORCEMENT SHALL HAVE AN AREA OF 40% OR MORE OF THE AREA OF THE WIRE BEING ANCHORED BUT SHALL NOT BE LESS THAN D4.



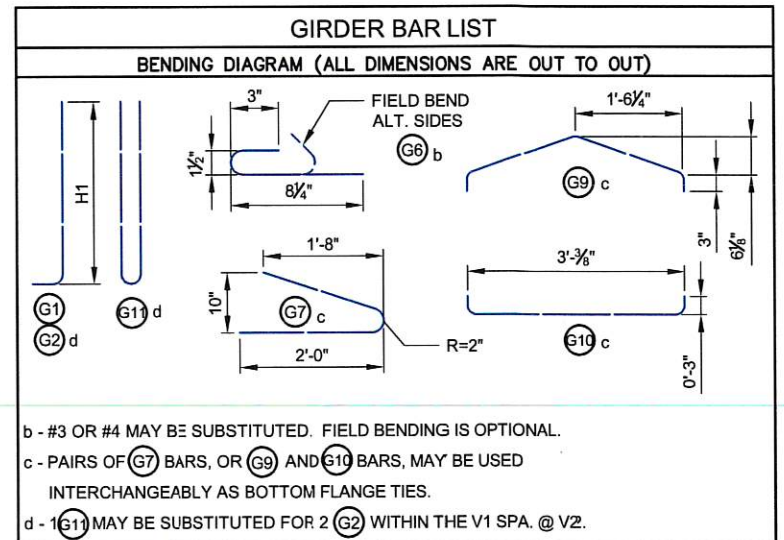
TYPICAL END ELEVATION



VIEW A STRANDS NOT SHOWN



SECTION B STRANDS NOT SHOWN

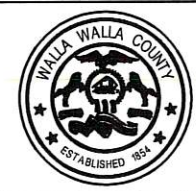


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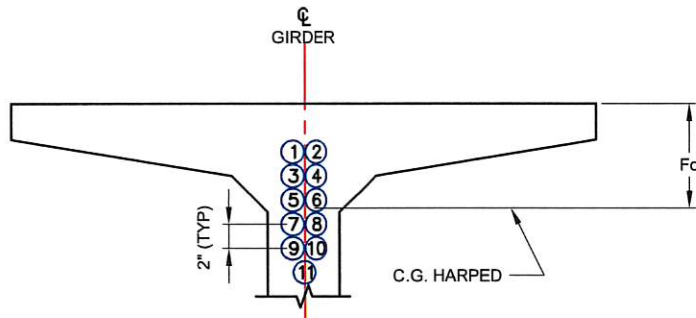
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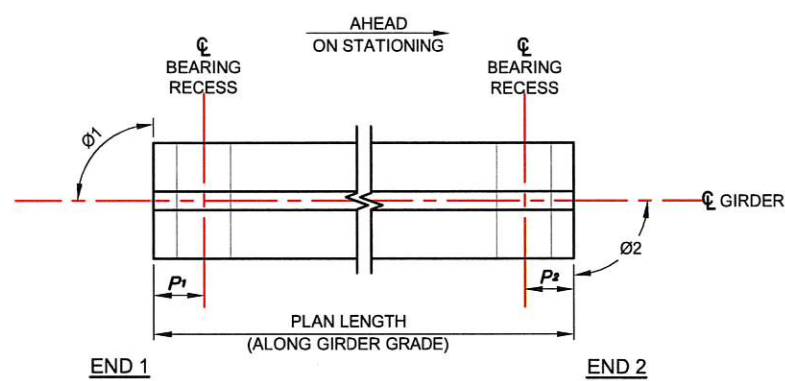


BLUE CREEK BRIDGE
GIRDER DETAILS I
SHEET S1



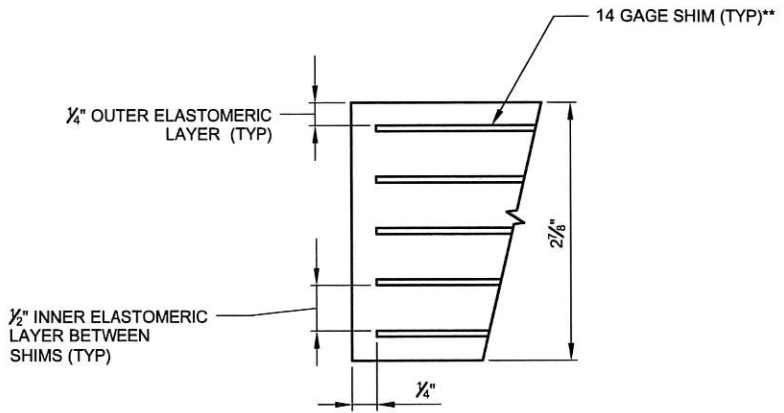
STRAND PATTERN AT GIRDER END

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

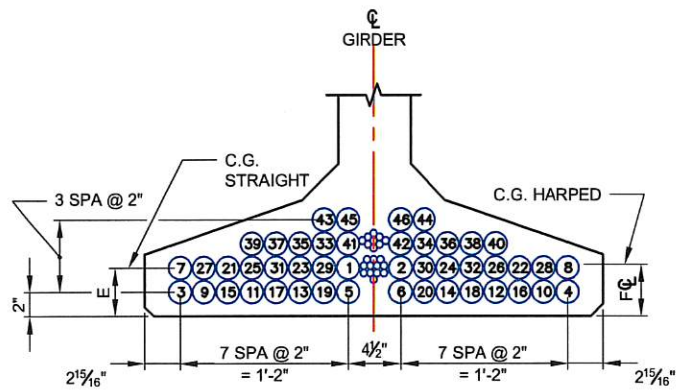


GIRDER SCHEDULE LEGEND

PLAN

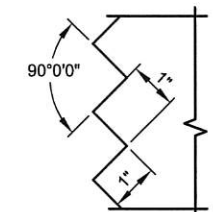


BEARING PAD TYPICAL SECTION

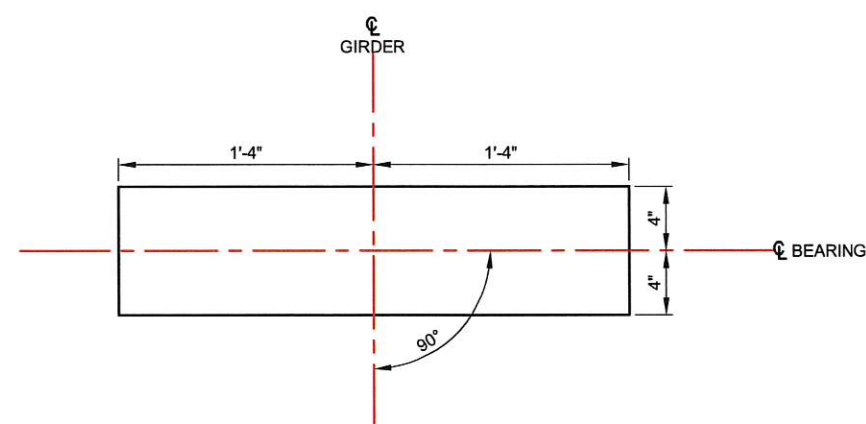


STRAND PATTERN AT MID SPAN

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



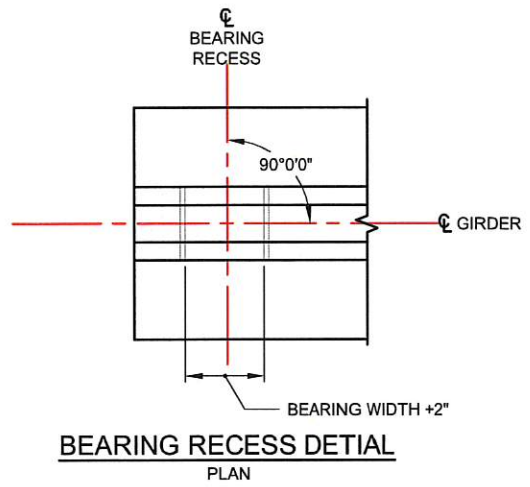
SAWTOOTH DETAIL
SAWTEETH ARE FULL WIDTH AND EXTEND FROM BOTTOM OF BOTTOM FLANGE TO LOWEST HARPED STRAND AS WELL AS TOP FLANGE TO TOP OF HARPED STRANDS.



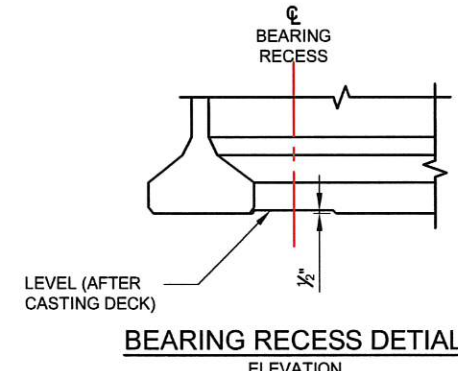
BEARING PAD PLAN

** SHIMS ASTM A570 GR 36

BEARING DESIGN TABLE (METHOD B)	
SERVICE 1 LIMIT STATE	
DEAD LOAD	185 KIPS
LIVE LOAD W/O IM	91 KIPS
SHEAR MODULUS	165 PSI
UNLOADED HEIGHT	2.87"
LOADED HEIGHT (DL)	2.84"



BEARING RECESS DETAIL PLAN



BEARING RECESS DETAIL ELEVATION

GIRDER SCHEDULE																															
(1) "A" DIM. = 10 3/4" BASED ON GIRDER DEFLECTION = "D" AT 120 DAYS																															
SPAN	GIRDER	GIRDER SERIES	END 1 TYPE	END 2 TYPE	"A" DIMENSION AT # BEARINGS (IN)	INT. DIAPHRAGM TYPE (FULL OR PARTIAL)	Ø1 (DEG)	Ø2 (DEG)	P1 (FT-IN)	P2 (FT-IN)	PLAN LENGTH (ALONG GIRDER GRADE) (FT-IN)	MIN. CONC. COMP. STRENGTH		NUMBER OF STRAIGHT STRANDS	NUMBER OF HARPED STRANDS	NUMBER OF TEMP. STRANDS	LOCATION OF C.G. STRANDS			STRAIGHT STR. TO EXTEND		D	REINFORCEMENT DETAILS								
												@ 28-DAYS FC (KSI)	@ RELEASE FC (KSI)				E (IN)	F (IN)	Fo (IN)	END 1	END 2		(1) DECK SCREED CAMBER "C" (IN)	(2) LOWER BOUND @ 40 DAYS (IN)	UPPER BOUND @ 120 DAYS (IN)	V1	V2	V3	V4	V5	V6
ALL	ALL	WF74G	A	A	10 3/4"	PARTIAL	90	90	1'-10 1/2"	1'-10 1/2"	128'-9"	9.0	7.5	32	12	2	3	4	9	① TO ⑥	① TO ⑥	1 1/2	1 1/8	3 5/8	6	3 1/2	24	6	5	9	7'-3 3/4"

(1) "A" DIM. AND SCREED CAMBER "C" MAY BE ADJUSTED DEPENDING ON ACTUAL GIRDER CAMBER "D" AFTER TEMPORARY STRANDS ARE RELEASED
(2) D40 VALUE 50% OF CALCULATED D40 (WSDOT BDM 5.2.4)

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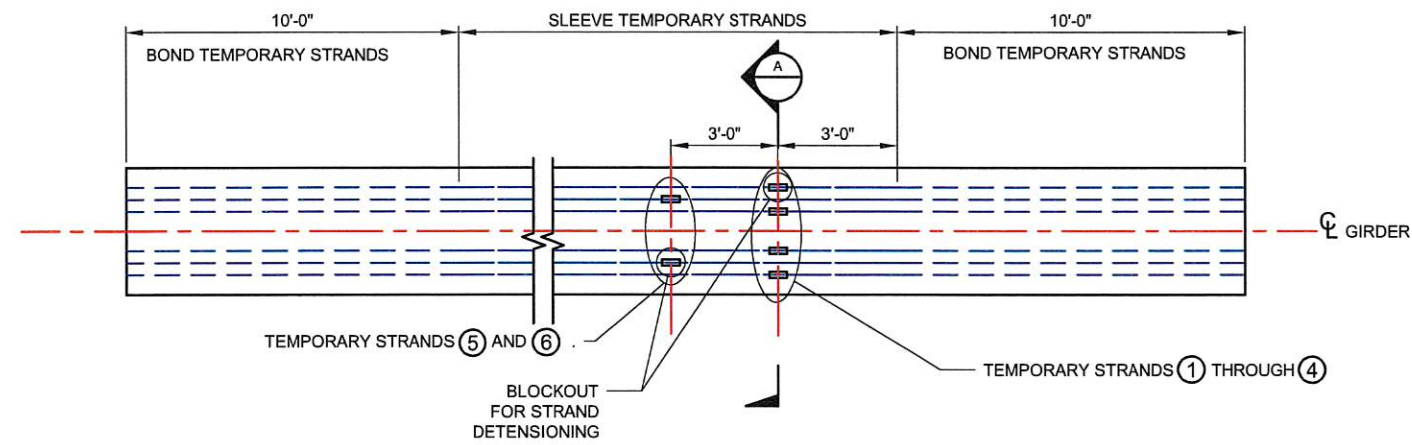
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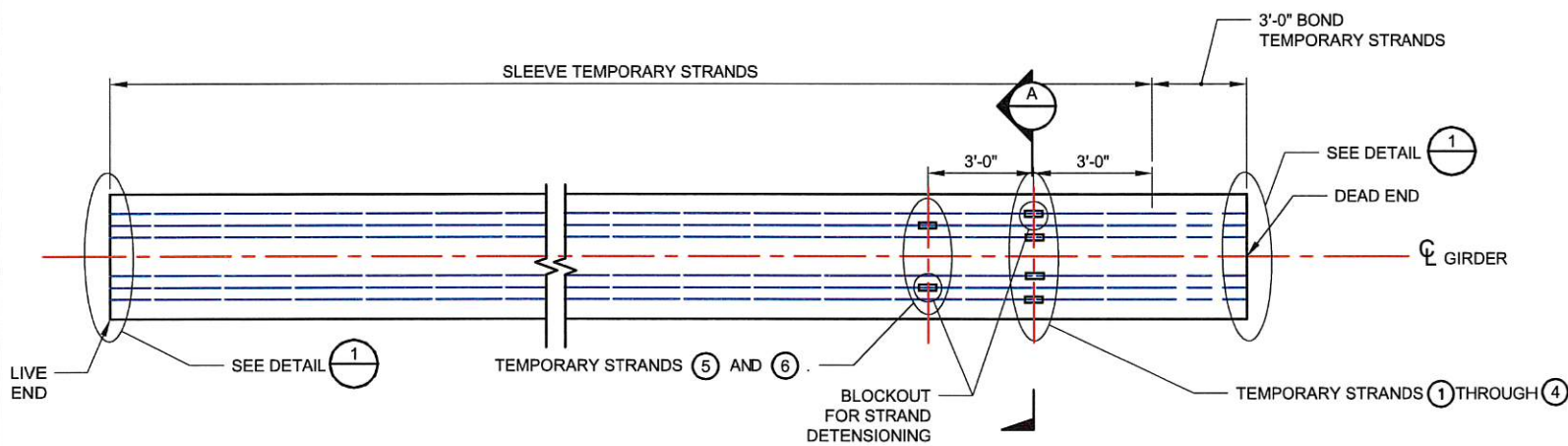
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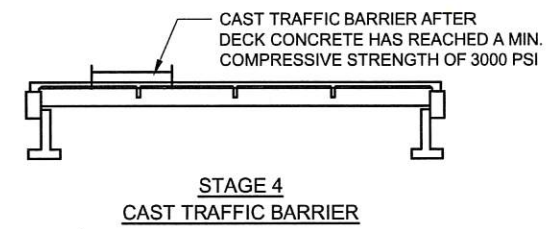
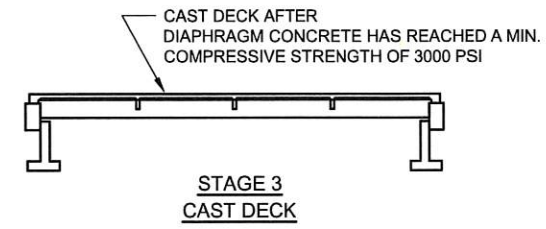
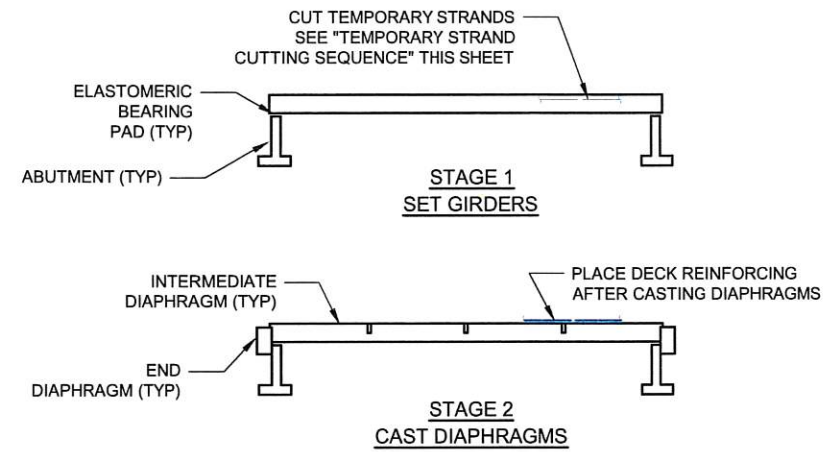
BLUE CREEK BRIDGE
GIRDER DETAILS II
SHEET **S2**



PRETENSIONED TEMPORARY TOP STRANDS ALTERNATE
PLAN



PRETENSIONED TEMPORARY TOP STRANDS ALTERNATE
PLAN



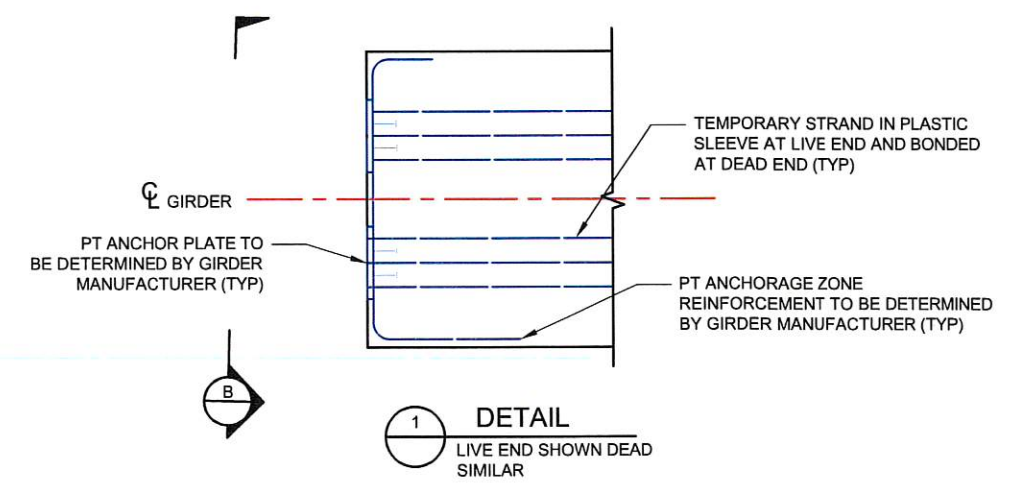
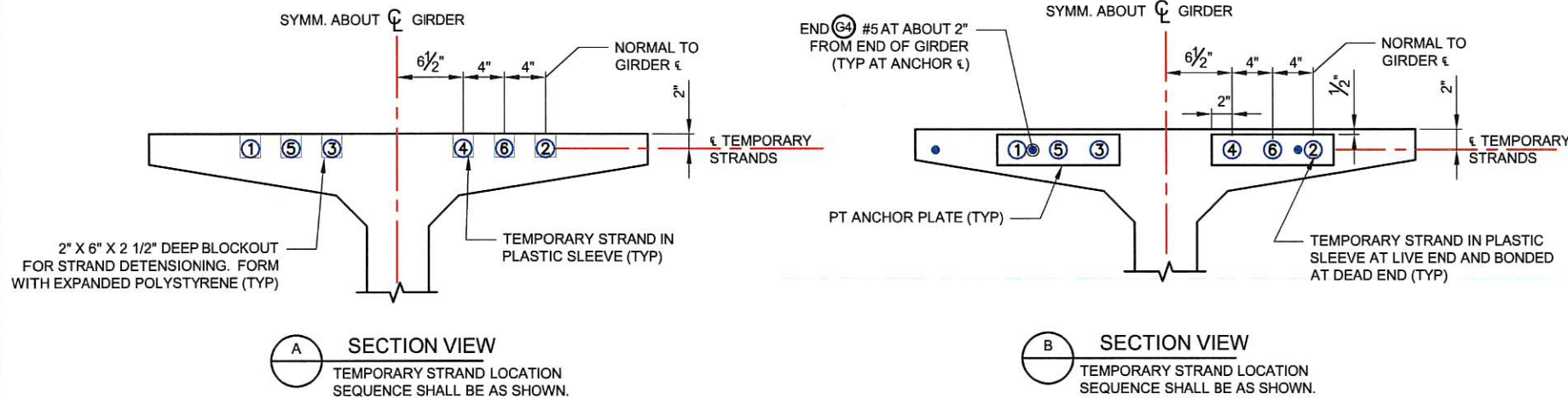
SUPERSTRUCTURE CONSTRUCTION SEQUENCE

TEMPORARY STRAND CUTTING SEQUENCE

1. ERECT AND BRACE GIRDERS.
2. REMOVE EXPANDED POLYSTYRENE IN 2" x 6" RECESSES IN TOP FLANGE OF GIRDERS.
3. CUT STRANDS IN 2" x 6" RECESSES. 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 AROUND THE GIRDER CENTERLINE STARTING WITH THOSE NEAREST THE CENTERLINE AND WORKING OUTWARDS.
4. REMOVE ALL MOISTURE IN RECESS PRIOR TO FILLING RECESS WITH GROUT.

CONSTRUCTION SEQUENCE GENERAL NOTES

1. NO FORMWORK, LOADS OR OTHER RESTRAINTS THAT WILL RESTRICT OR HINDER THE VERTICAL MOVEMENT OF THE GIRDERS SHALL BE INSTALLED PRIOR TO CUTTING OF TEMPORARY STRANDS.
2. THE FOLLOWING SHALL OCCUR PRIOR TO THE INSTALLATION OF ANY DECK OR DIAPHRAGM FORM WORK:
 - a. THE ENGINEER WILL VERIFY THAT ALL TEMPORARY STRANDS HAVE BEEN CUT.
 - b. THE CONTRACTOR SHALL MEASURE AND RECORD THE GIRDER CAMBER FOR EACH GIRDER AT THE BEG. / END AND AT 10TH POINTS ALONG THE GIRDER AFTER RELEASE OF THE TEMPORARY STRANDS.
 - c. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON SHALL SUBMIT STAMPED CALCULATIONS AND PLANS FOR ANY ADJUSTMENTS TO THE DECK "A" DIMENSION AND SCREED ELEVATIONS FOR APPROVAL BY THE CONTRACTING AGENCY BEFORE CASTING THE DECK.

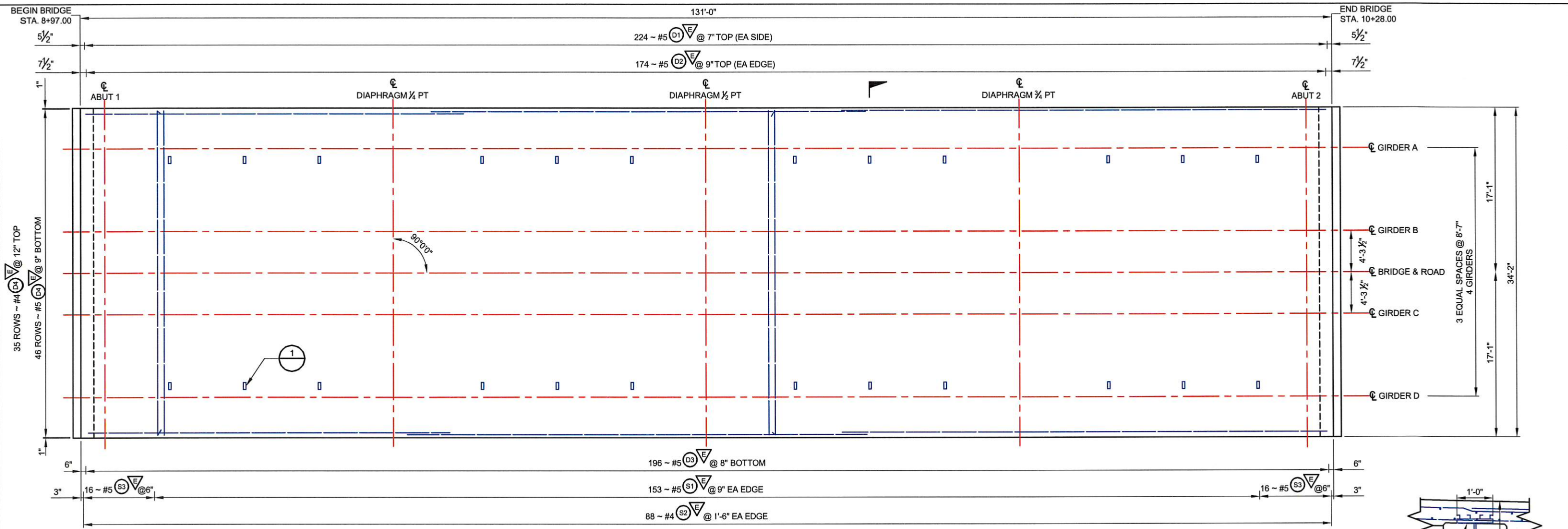


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DESIGNER: SAH				10	WASH	
CHECKED: TGM				JOB NUMBER		
PROJ. ENG.: DFE				15-01		
APPROVED BY: TGM						
6/14/2017	REV DATE	REVISION	BY	APP'D		

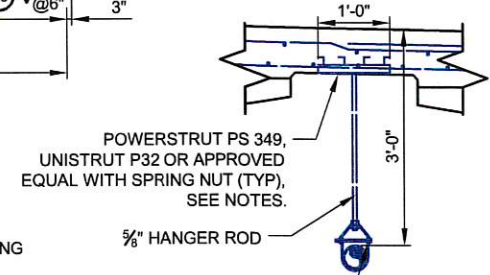
FED. AID PROJ. NO. BRS-K364(005) TA-5753

Walla Walla County
PUBLIC WORKS DEPARTMENT
10/19/2017 PLOT DATE

BLUE CREEK BRIDGE
GIRDER DETAILS III
SHEET S3

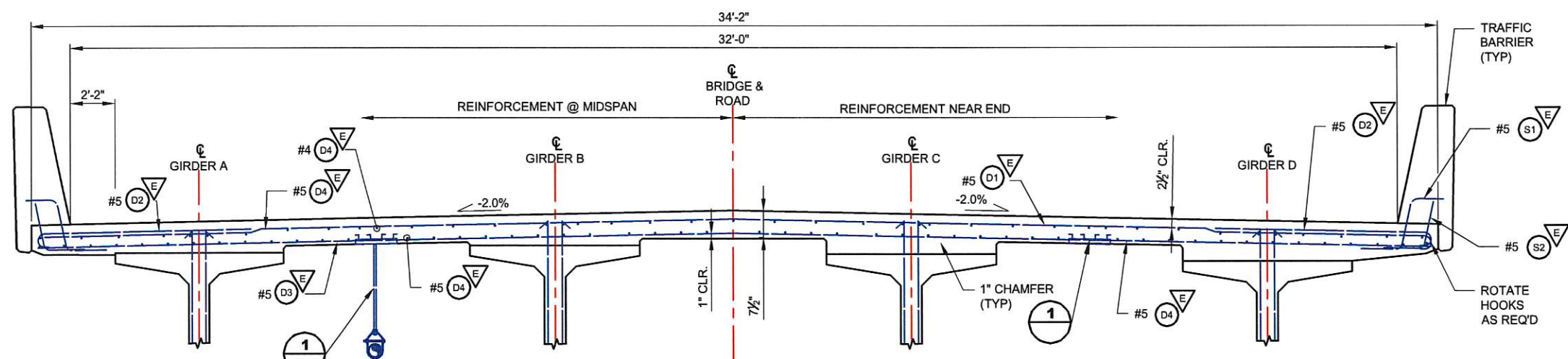


DECK PLAN
PLAN

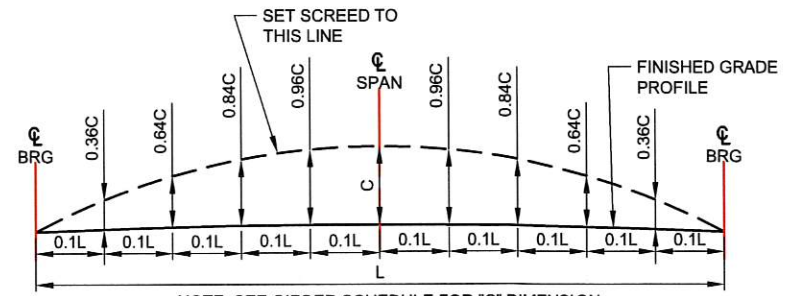


- NOTES:
- INSTALL INSERT LEVEL TRANSVERSELY AT SPACING SHOWN. ADJUST LONGITUDINAL DECK REINFORCEMENT AS NEEDED.
 - ALL COMPONENTS TO BE GALVANIZED.
 - CHASE THREADS ON HANGER ROD AS REQUIRED.

1 DETAIL



A SECTION



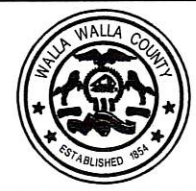
NOTE: SEE GIRDER SCHEDULE FOR "C" DIMENSION
SCREED CAMBER DIAGRAM

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6/14/2017				

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	BRS-K364(005) TA-5753
JOB NUMBER		
15-01		

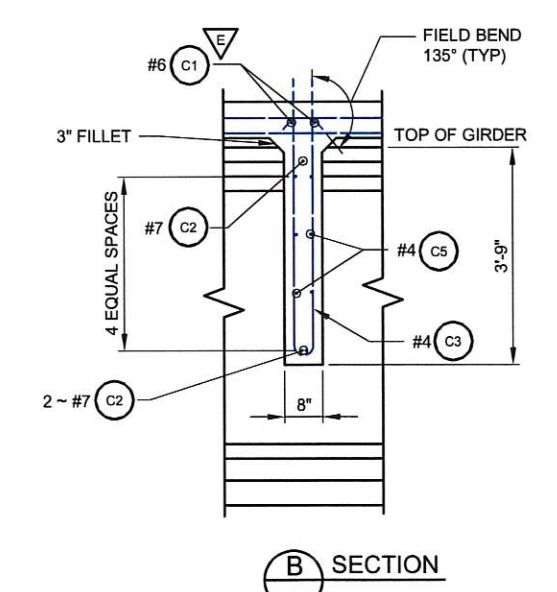
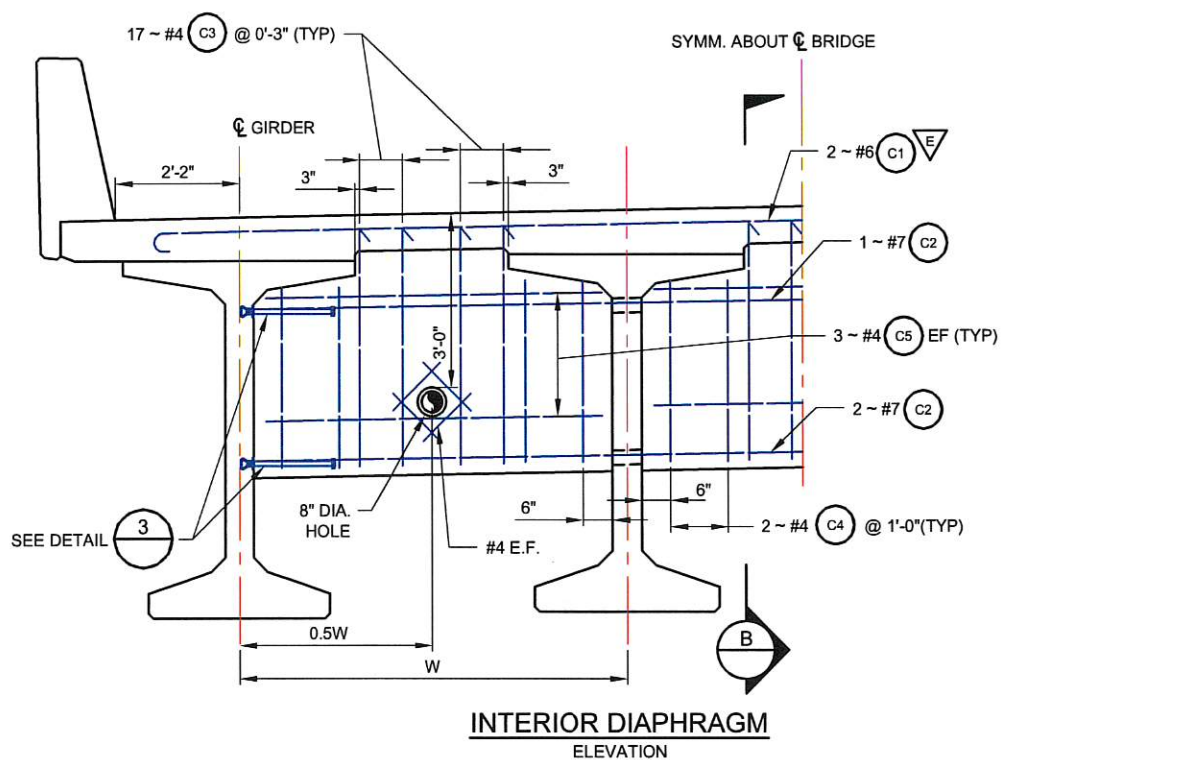
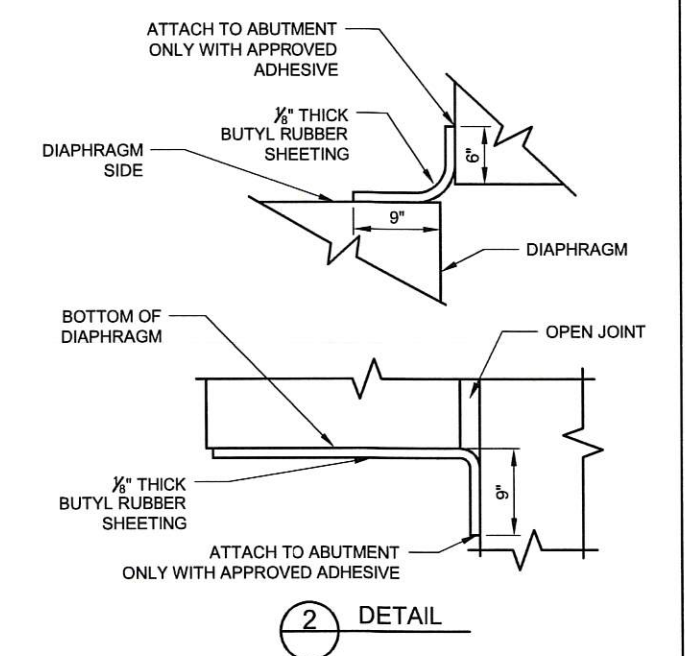
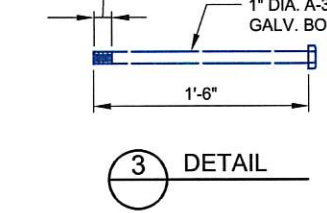
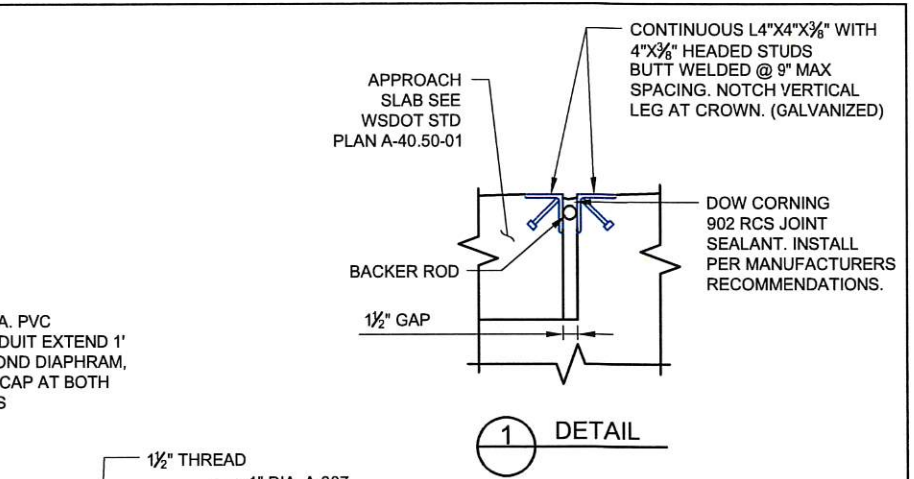
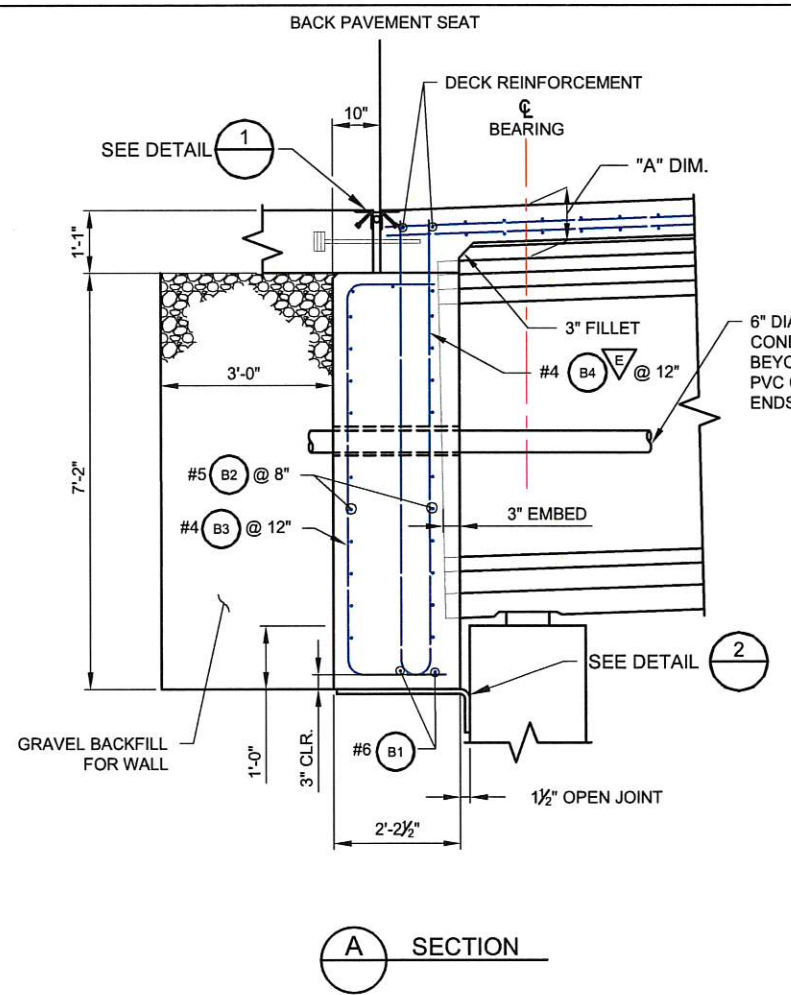
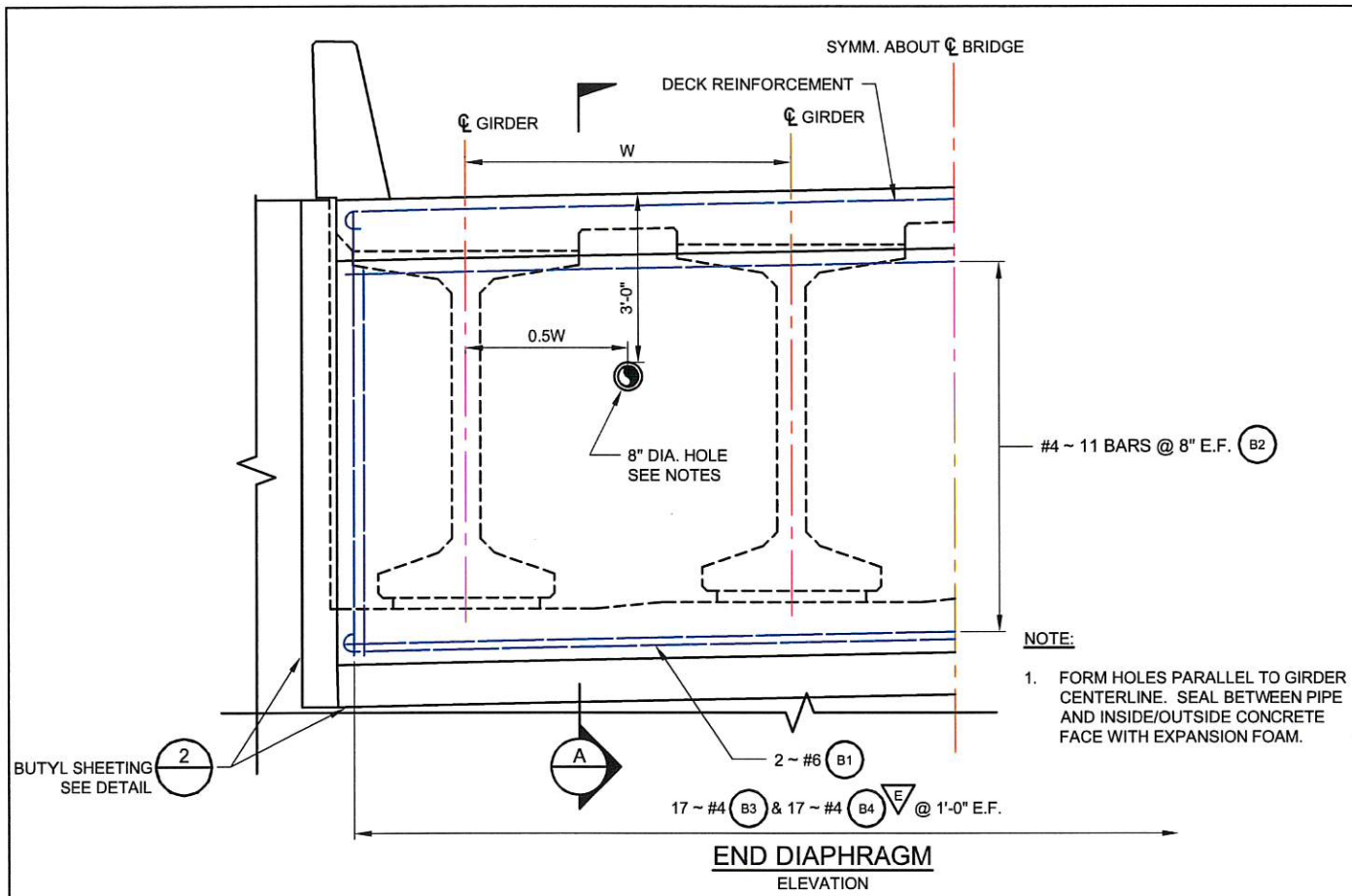


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BLUE CREEK BRIDGE
DECK AND FRAMING PLAN

SHEET
S4

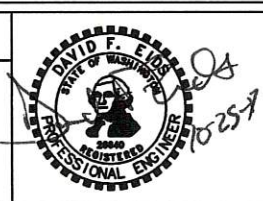


DIAPHRAGM GENERAL NOTES

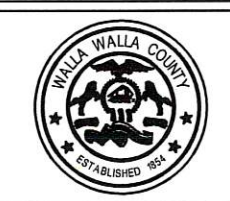
- GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- #7 BARS FOR INTERIOR DIAPHRAGMS WILL NEED TO BE THREADED THROUGH HOLES PRIOR TO PLACEMENT OF EXTERIOR GIRDERS. A MINIMUM SPLICE LENGTH OF 3'-7" IS REQUIRED ON #7 BARS AND 3'-0" ON #6 BARS.
- CUT/RELEASE TEMPORARY STRANDS PRIOR TO CASTING DIAPHRAGMS.
- LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.
- EXTENDED STRANDS AND GIRDER REINFORCEMENT NOT SHOWN FOR CLARITY.
- ADJUST REINFORCEMENT TO CLEAR 8" DIA. HOLE.

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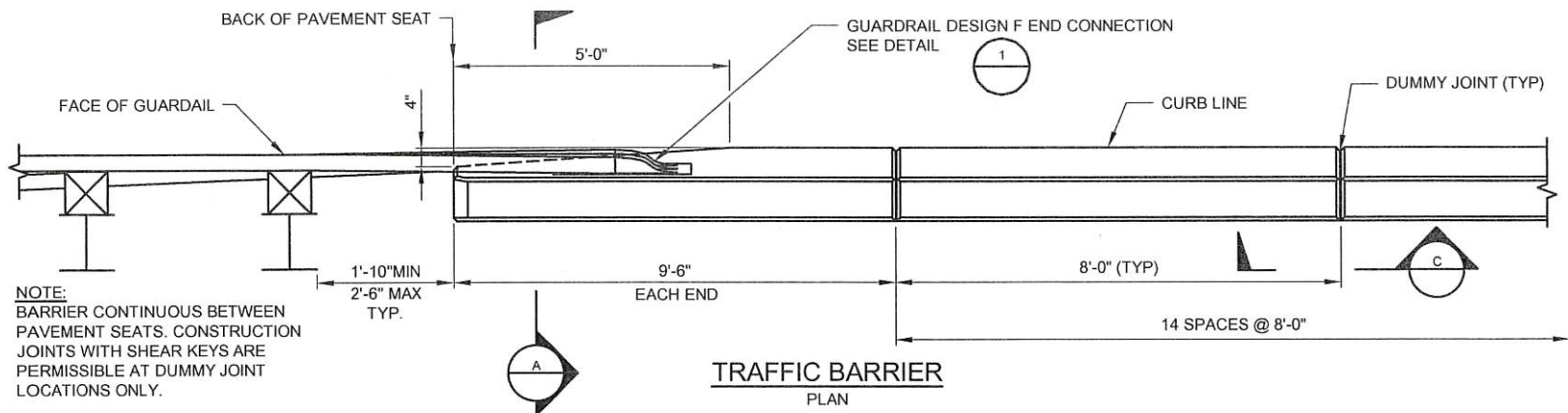
Walla Walla County
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BLUE CREEK BRIDGE

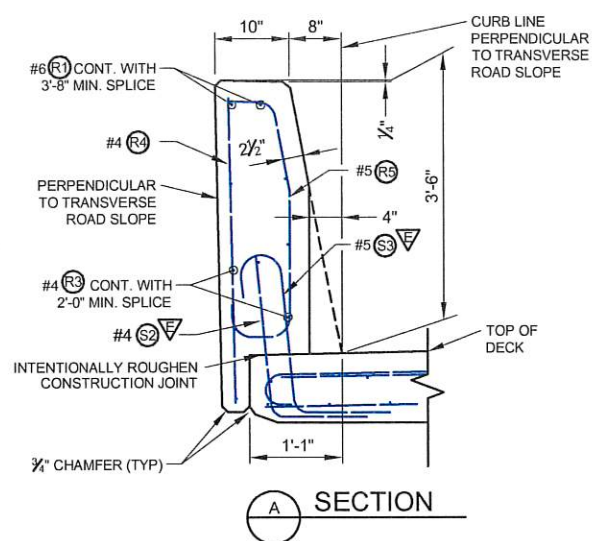
DIAPHRAGMS

SHEET S5

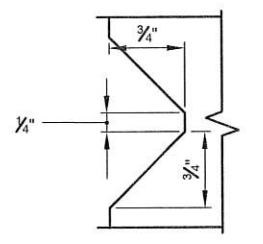


NOTE:
BARRIER CONTINUOUS BETWEEN PAVEMENT SEATS. CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS ONLY.

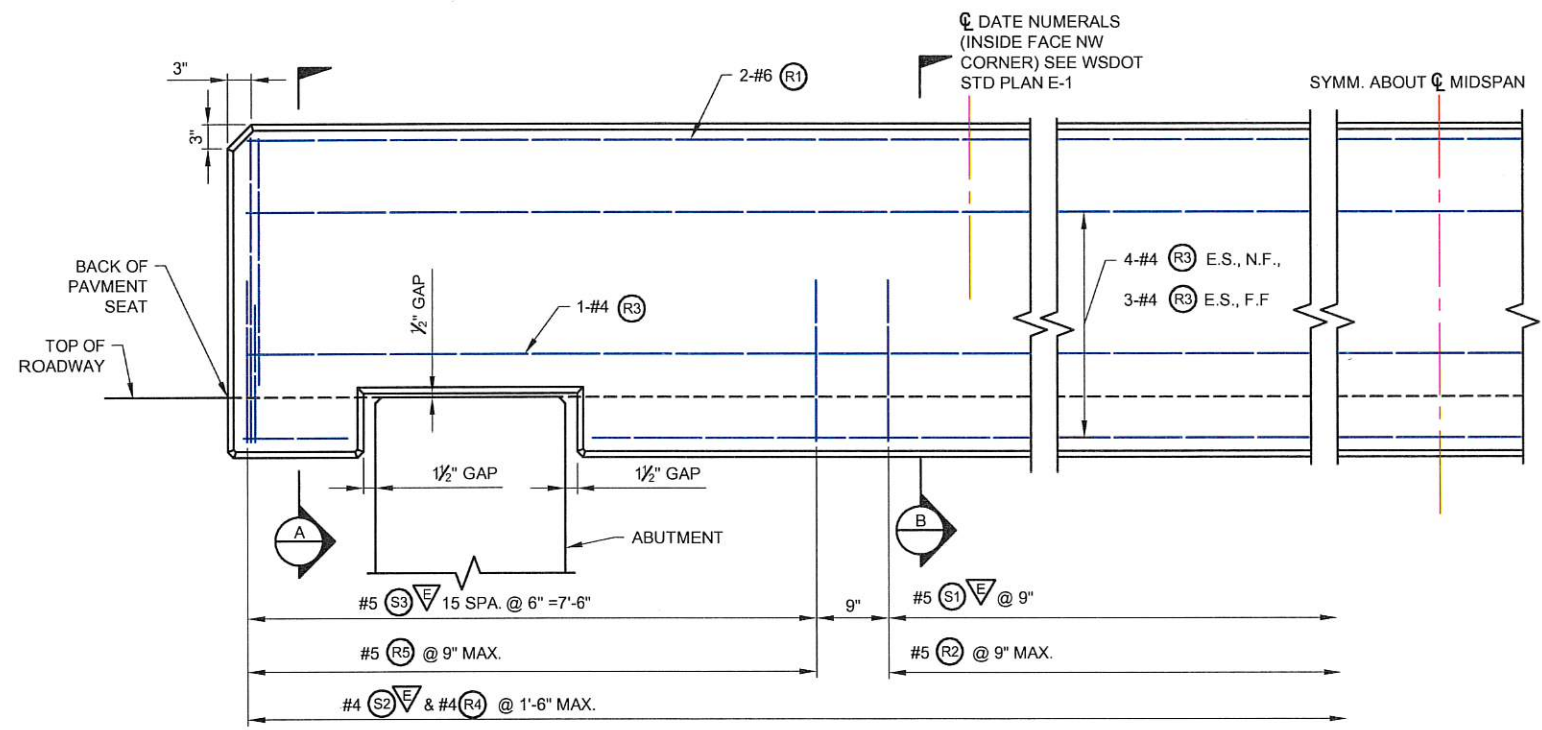
TRAFFIC BARRIER PLAN



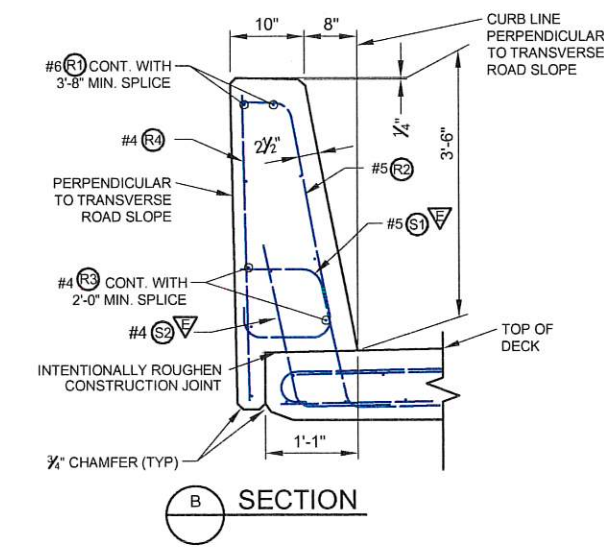
SECTION A



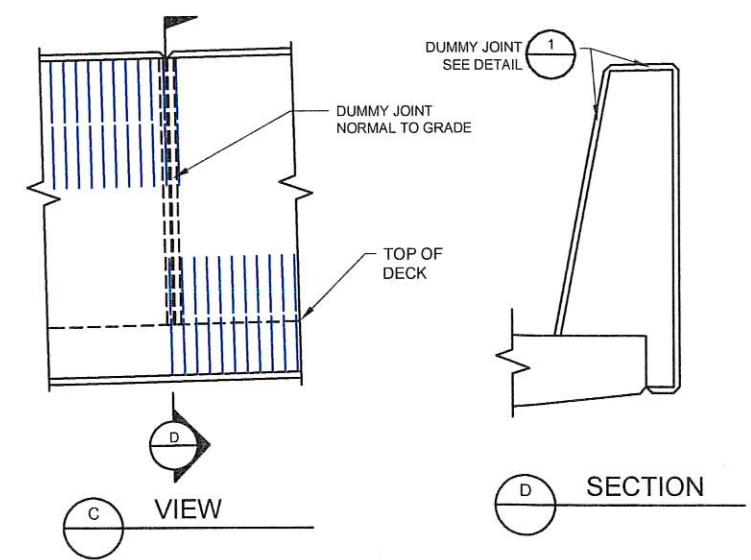
1 DETAIL DUMMY JOINT



TRAFFIC BARRIER ELEVATION

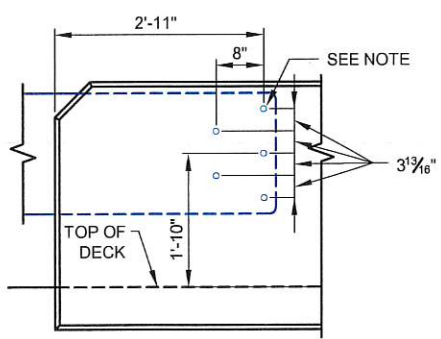


SECTION B

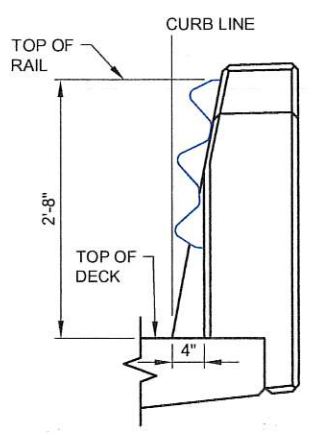


VIEW C

SECTION D



1 DETAIL GUARDRAIL F CONNECTION



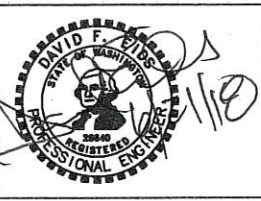
SECTION A

TRAFFIC BARRIER BAR LIST			
BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)			
MARK	SIZE		
S1	5	E	
S2	4	E	
S3	5	E	
R1	6	STR.	
R2	5		
R3	4	STR.	
R4	4	STR.	
R5	5		

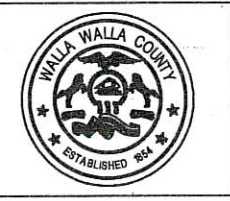
E - EPOXY COATED

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DESIGNER: SAH	JOB NUMBER 15-01		BRS-K364(005)
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PROJ. ENG.: DFE			
APPROVED BY: TGM			
6/21/2018	REV DATE	REVISION	BY APP'D

DAVID F. BROWN
REGISTERED PROFESSIONAL ENGINEER
NO. 110



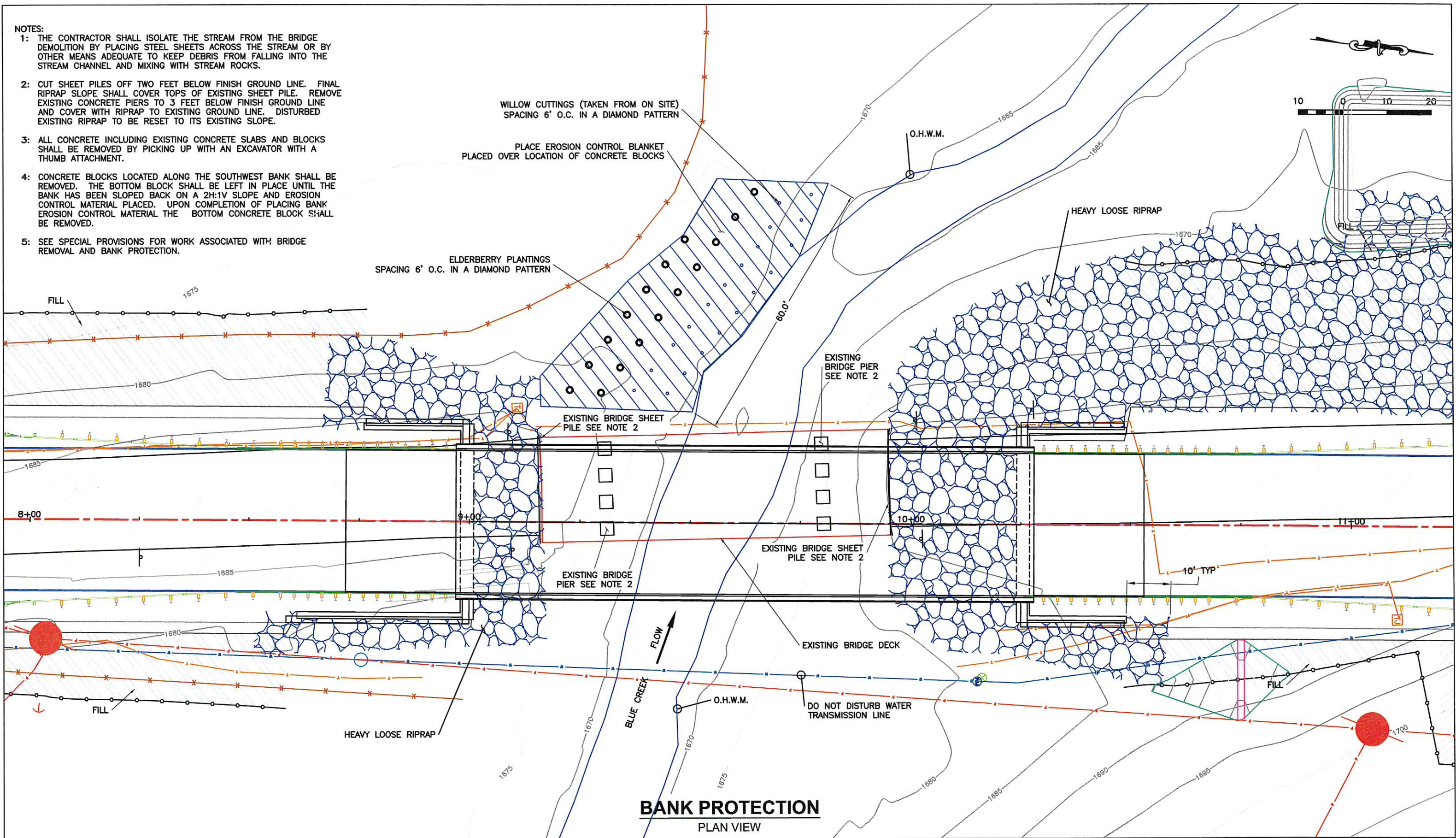
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6/21/2018
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BLUE CREEK BRIDGE
TRAFFIC BARRIER
SHEET TB1

NOTES:

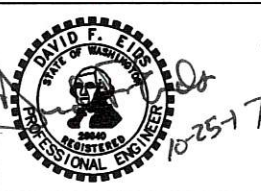
- 1: THE CONTRACTOR SHALL ISOLATE THE STREAM FROM THE BRIDGE DEMOLITION BY PLACING STEEL SHEETS ACROSS THE STREAM OR BY OTHER MEANS ADEQUATE TO KEEP DEBRIS FROM FALLING INTO THE STREAM CHANNEL AND MIXING WITH STREAM ROCKS.
- 2: CUT SHEET PILES OFF TWO FEET BELOW FINISH GROUND LINE. FINAL RIPRAP SLOPE SHALL COVER TOPS OF EXISTING SHEET PILE. REMOVE EXISTING CONCRETE PIERS TO 3 FEET BELOW FINISH GROUND LINE AND COVER WITH RIPRAP TO EXISTING GROUND LINE. DISTURBED EXISTING RIPRAP TO BE RESET TO ITS EXISTING SLOPE.
- 3: ALL CONCRETE INCLUDING EXISTING CONCRETE SLABS AND BLOCKS SHALL BE REMOVED BY PICKING UP WITH AN EXCAVATOR WITH A THUMB ATTACHMENT.
- 4: CONCRETE BLOCKS LOCATED ALONG THE SOUTHWEST BANK SHALL BE REMOVED. THE BOTTOM BLOCK SHALL BE LEFT IN PLACE UNTIL THE BANK HAS BEEN SLOPED BACK ON A 2H:1V SLOPE AND EROSION CONTROL MATERIAL PLACED. UPON COMPLETION OF PLACING BANK EROSION CONTROL MATERIAL THE BOTTOM CONCRETE BLOCK SHALL BE REMOVED.
- 5: SEE SPECIAL PROVISIONS FOR WORK ASSOCIATED WITH BRIDGE REMOVAL AND BANK PROTECTION.



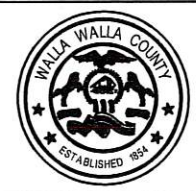
BANK PROTECTION
PLAN VIEW

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DESIGNER: SAH	JOB NUMBER	
CHECKED: TGM	15-01	
PROJ. ENG.: DFE	BY	APP'D
APPROVED BY: TGM	REV DATE	REVISION
6/14/2017		

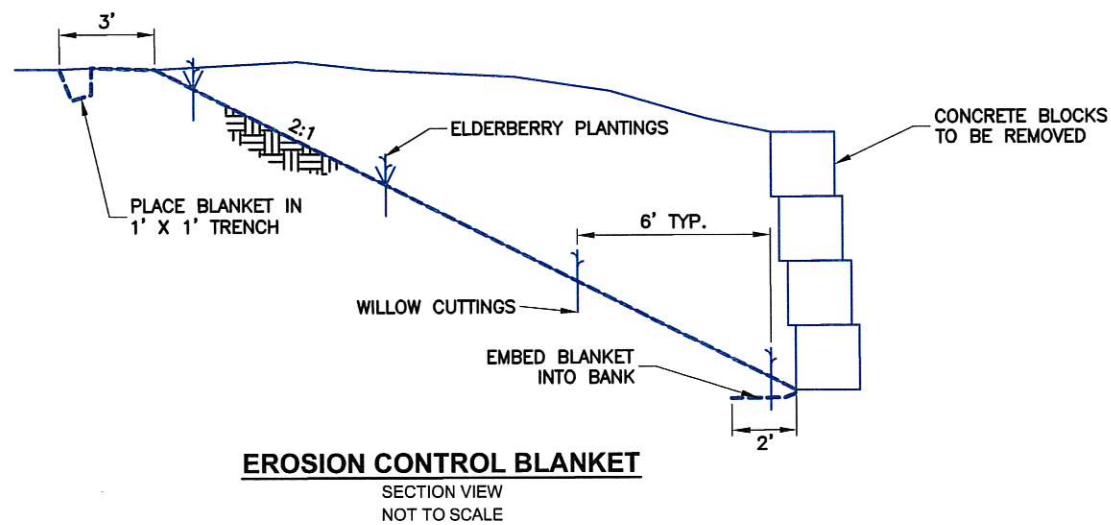
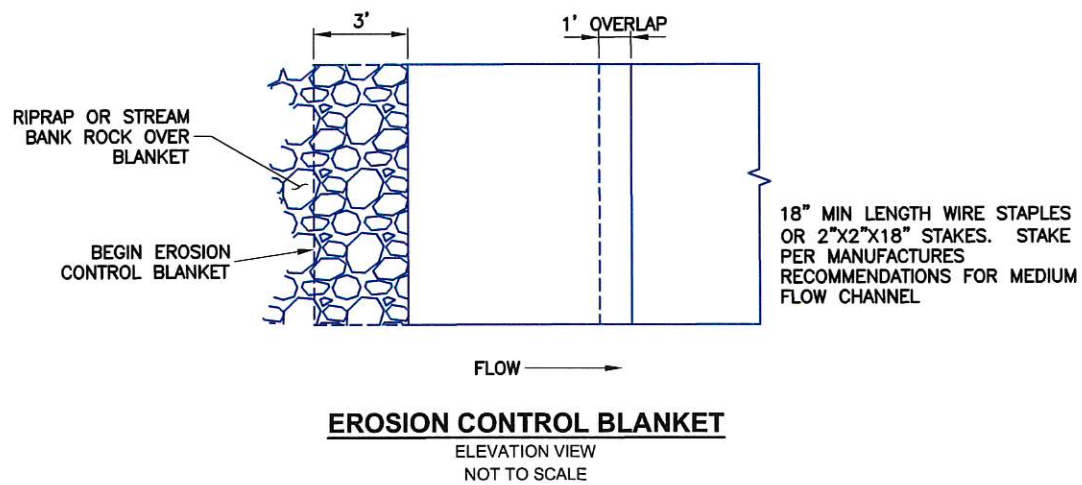
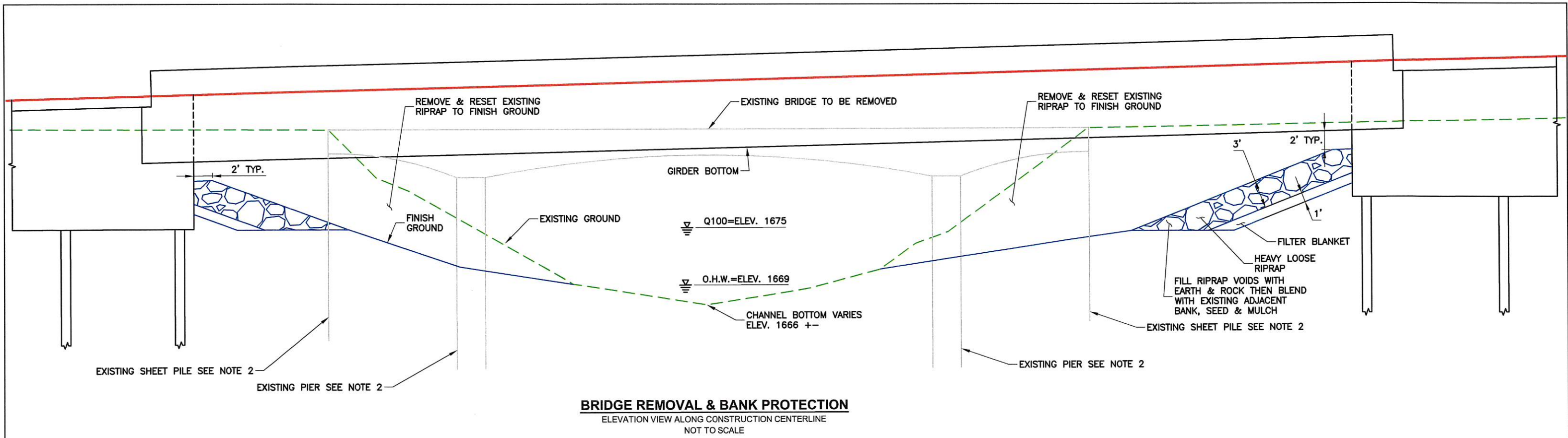
FED. AID PROJ. NO.
BRS-K364(005)
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10/19/2017
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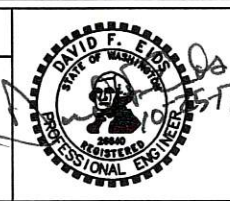
BLUE CREEK BRIDGE	SHEET
BANK PROTECTION	BP1



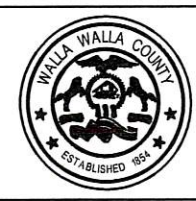
- NOTES:**
- 1: THE CONTRACTOR SHALL ISOLATE THE STREAM FROM THE BRIDGE DEMOLITION BY PLACING STEEL SHEETS ACROSS THE STREAM OR BY OTHER MEANS ADEQUATE TO KEEP DEBRIS FROM FALLING INTO THE STREAM CHANNEL AND MIXING WITH STREAM ROCKS.
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 - 5: SEE SPECIAL PROVISIONS FOR WORK ASSOCIATED WITH BRIDGE REMOVAL AND BANK PROTECTION.
 - 6: SEE BANK PROTECTION @ WINGWALLS SHEET FOR RIPRAP PLACEMENT.

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BRS-K364(005)
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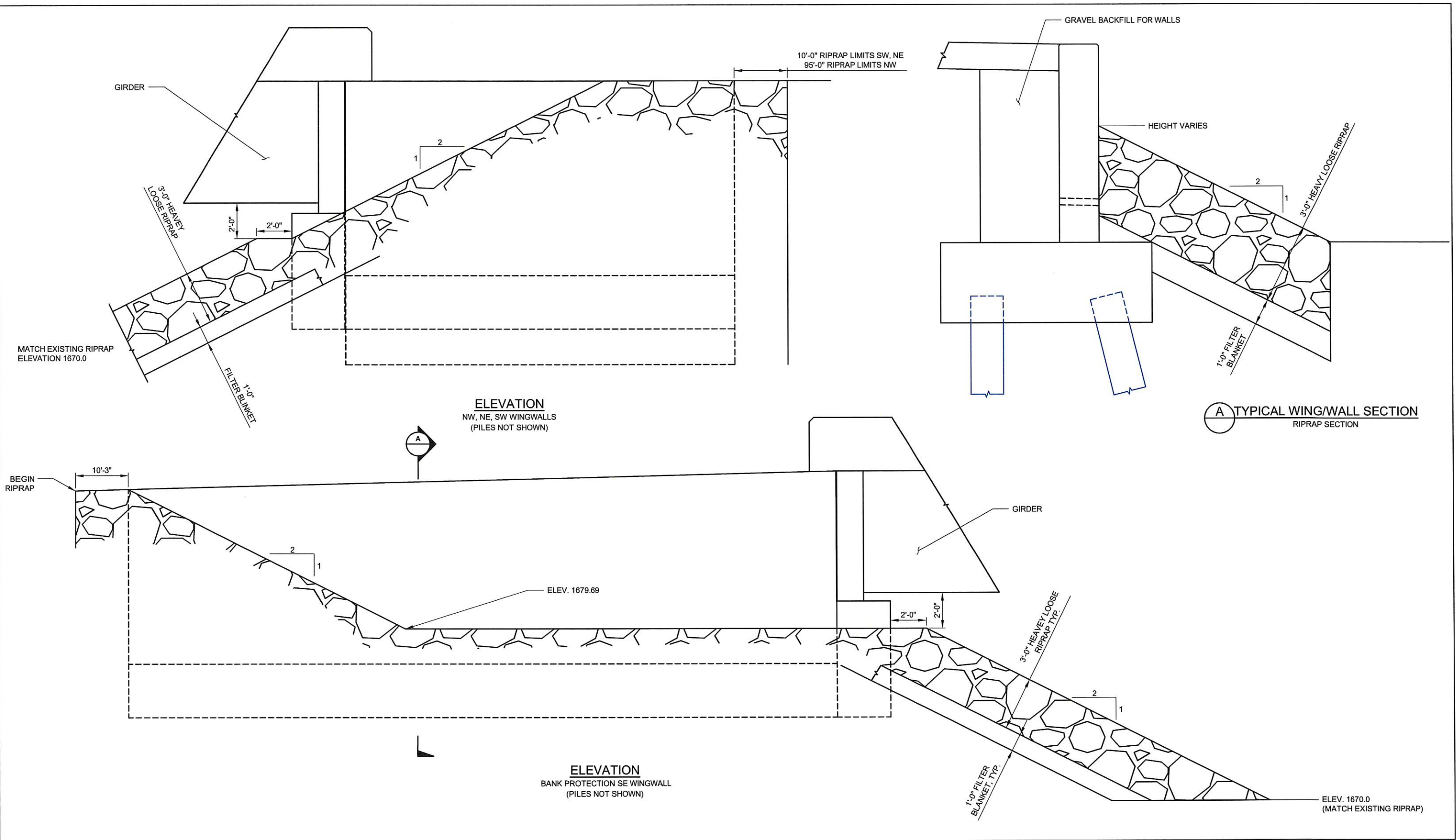
Walla Walla County
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10/19/2017
PLOT DATE



BLUE CREEK BRIDGE

BANK PROTECTION DETAIL

SHEET
BP2



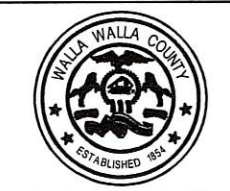
A TYPICAL WING/WALL SECTION
RIPRAP SECTION

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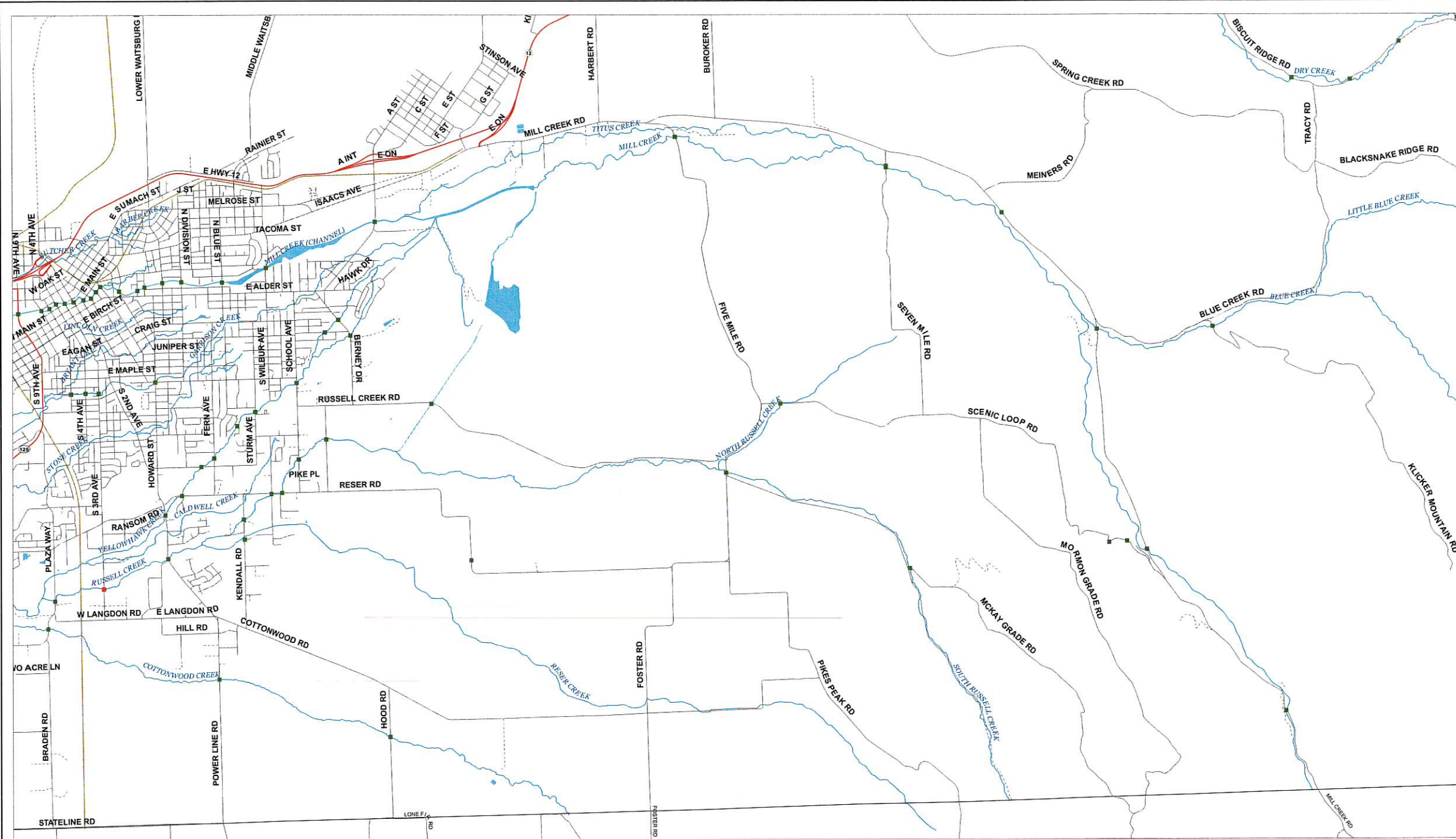
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Walla Walla County
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BLUE CREEK BRIDGE
BANK PROTECTION @ WINGWALLS BP3



NOTE:
ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. AND SHALL BE MODIFIED AS REQUIRED BY THE ENGINEER.

ALL TRAFFIC CONTROL DEVICES SHALL MEET REQUIREMENTS OF N.C.H.R.P REPORT 350 AS CERTIFIED BY THE MANUFACTURER OF THE DEVICE.

SEE STD. PLAN K-80.20-00 FOR TYPE III BARRICADE DETAIL. PAINTED RAILS ARE NOT ACCEPTABLE. TYPE III TRAFFIC BARRICADE FACE RAILS SHALL HAVE RETRO-REFLECTORIZED SHEETING ATTACHED.

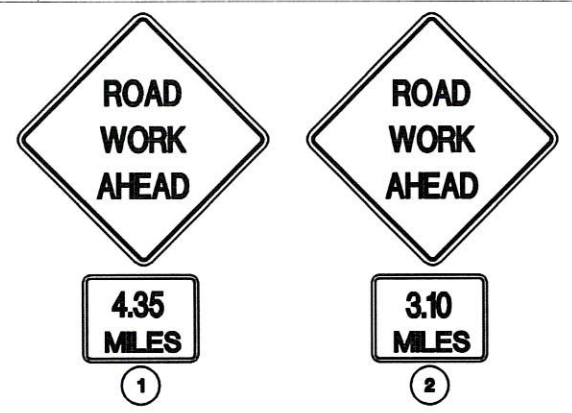
SIGNS TO BE MOUNTED ON TYPE III BARRICADES UPON ACTUAL CLOSING OF A SECTION OF ROAD.

CONDITION AND CARE OF EQUIPMENT
ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT CLEAN TO PROVIDE PROTECTION FOR THE CREW THROUGH BETTER VISIBILITY TO THE MOTORIST. THE CONDITION OF SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE NEW OR "ACCEPTABLE" AS DEFINED IN THE BOOK "QUALITY GUIDELINES FOR WORK ZONE TRAFFIC CONTROL DEVICES", AND WILL BE ACCEPTED BASED ON A VISUAL INSPECTION. A SIGN OR TRAFFIC CONTROL DEVICE DETERMINED TO BE "NOT ACCEPTABLE" SHALL BE REMOVED FROM THE PROJECT.

LEGEND

-  SIGN SINGLE POST
-  SIGN DOUBLE POST
-  TYPE III BARRICADE

SIGN SCHEDULE				
QUANTITY	SIZE ENGLISH	COLOR	POST PER SIGN	DESCRIPTION
11	36 X 36	BLACK / ORANGE	1	ROAD WORK AHEAD
1	24X18	BLACK / ORANGE		4.35 MILES
1	24X18	BLACK / ORANGE		3.60 MILES
3	36 X 36	BLACK / ORANGE	1	REDUCED SPEED AHEAD (SYMBOL)
3	36 X 36	BLACK / ORANGE	1	MOTORCYCLES USE EXTREME CAUTION
3	24 X 30	BLACK / WHITE	1	SPEED LIMIT 25
2	48 X 30	BLACK / WHITE	TYPE III	BRIDGE OUT
2	48 X 30	BLACK / WHITE	TYPE III	ROAD CLOSED
3	48 X 18	BLACK / ORANGE	1	DETOUR ARROW LEFT
3	48 X 18	BLACK / ORANGE	1	DETOUR ARROW RIGHT
3	36 X 36	BLACK / ORANGE	PORTABLE	BE PREPARED TO STOP
3	36 X 36	BLACK / ORANGE	PORTABLE	FLAGGER (SYMBOL)



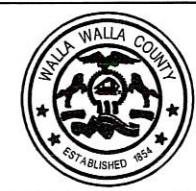
- SIGN LOCATIONS:**
- 100 FT (MIN) WEST OF FIVE MILE RD
 - AT SPRING CREEK RD AND BLUE CREEK RD INTERSECTION

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6/14/2017		

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Walla Walla County
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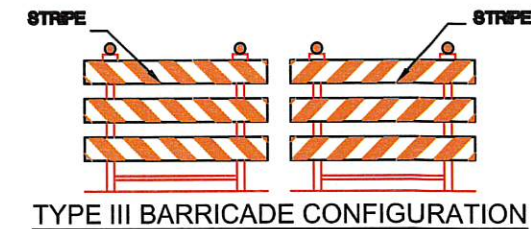
BLUE CREEK BRIDGE

TRAFFIC CONTROL

SHEET **T1**

LEGEND

-  SIGN SINGLE POST
-  SIGN DOUBLE POST
-  TYPE III BARRICADE

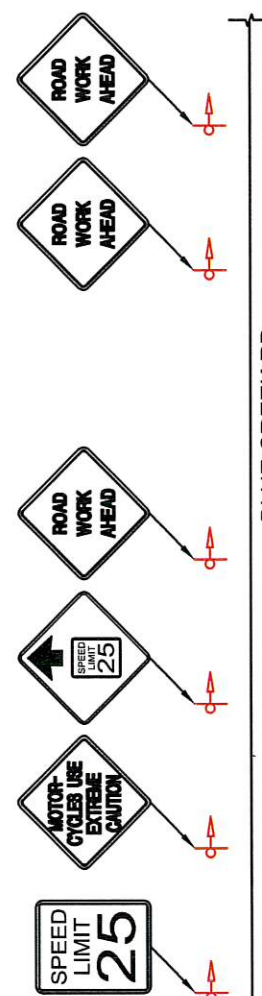


TYPE III BARRICADE CONFIGURATION

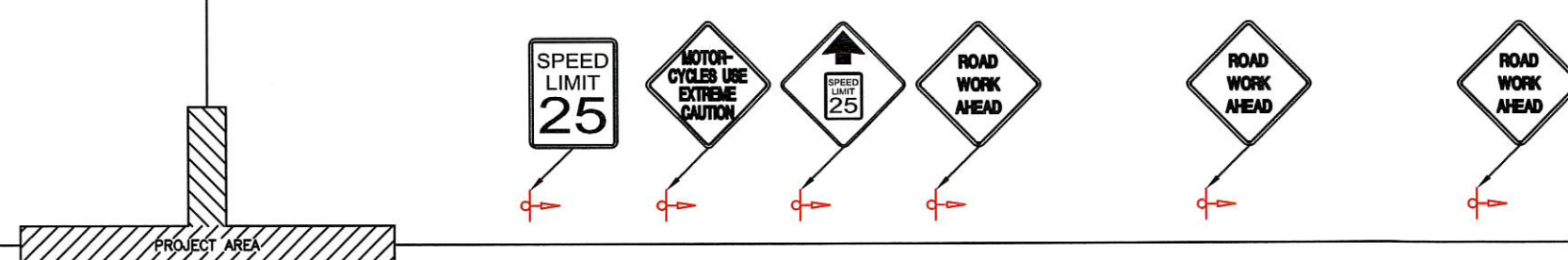
SEE STD PLAN K-80.20-00

2009 Edition M.U.T.C.D.
Page 581

- GUIDANCE:
- 14 SIGNS MOUNTED ON TYPE 3 BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.



BLUE CREEK RD



MILL CREEK RD




SIGN SPACING
ALL SIGNS SHALL BE SPACED AT 500 FT MIN STARTING FROM THE BEGINNING OF PROJECT.

REDUCED SPEED AHEAD, SPEED LIMIT 25 SHALL BE 250 FT FROM MOTORCYCLES USE EXTREME CAUTION SIGNS.



PORTABLE SIGNS


DRAWN: tas	REGION NO. 10	STATE WASH	FED. AID PROJ. NO.
DESIGNER: tas	JOB NUMBER	15-01	BRS-K364(005) TA-5753
CHECKED: TGM	BY	APP'D	
PROJ. ENG.: TGM	REV DATE	REVISION	
APPROVED BY: TGM	6/14/2017		



Walla Walla County

PUBLIC WORKS DEPARTMENT

10/19/2017
PLOT DATE






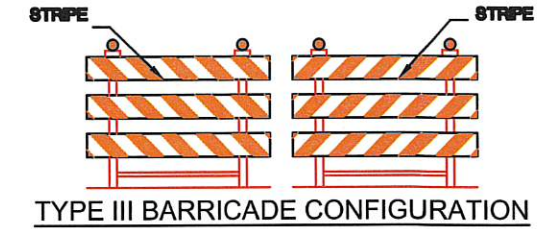
BLUE CREEK BRIDGE

TRAFFIC CONTROL

SHEET
T2

LEGEND

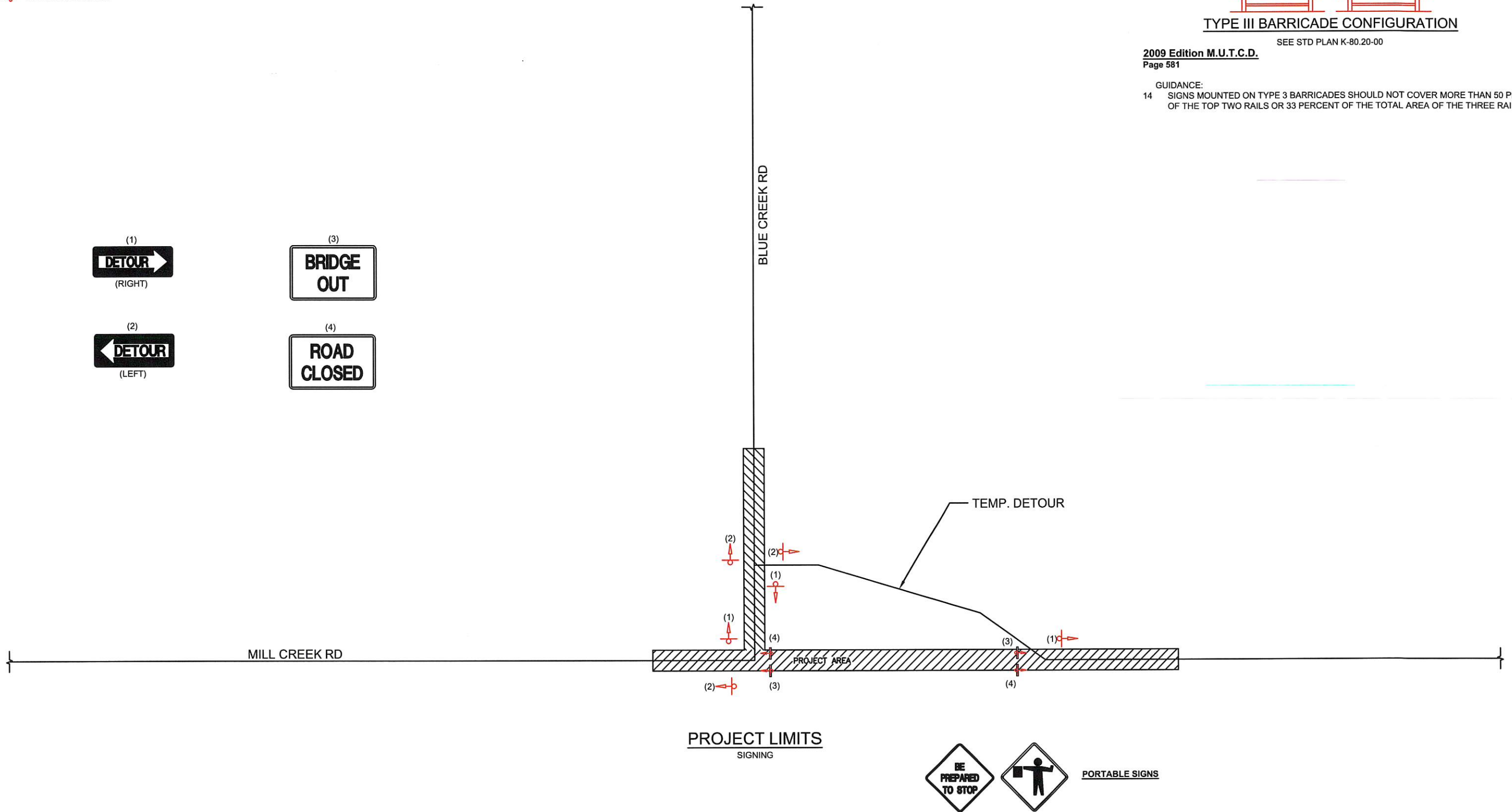
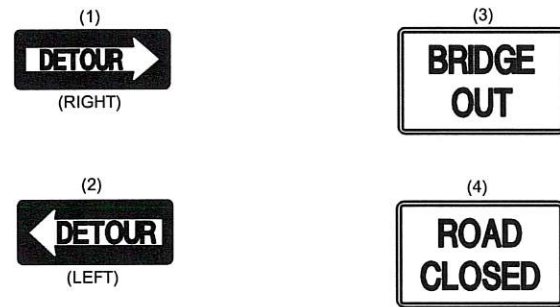
-  SIGN SINGLE POST
-  SIGN DOUBLE POST
-  TYPE III BARRICADE



SEE STD PLAN K-80.20-00

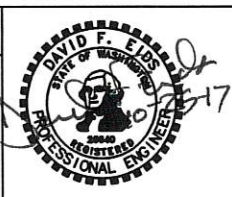
2009 Edition M.U.T.C.D.
Page 581

- GUIDANCE:
- 14 SIGNS MOUNTED ON TYPE 3 BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.



DRAWN: tas					REGION NO.	STATE
DESIGNER: tas					10	WASH
CHECKED: TGM					JOB NUMBER	
PROJ. ENG.: TGM					15-01	
APPROVED BY: TGM						
6/14/2017	REV DATE	REVISION	BY	APP'D		

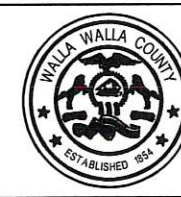
FED. AID PROJ. NO.
**BRS-K364(005)
TA-5753**



Walla Walla County

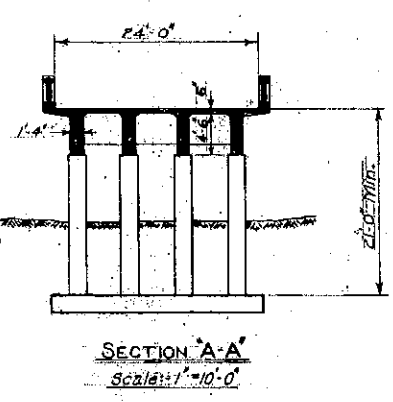
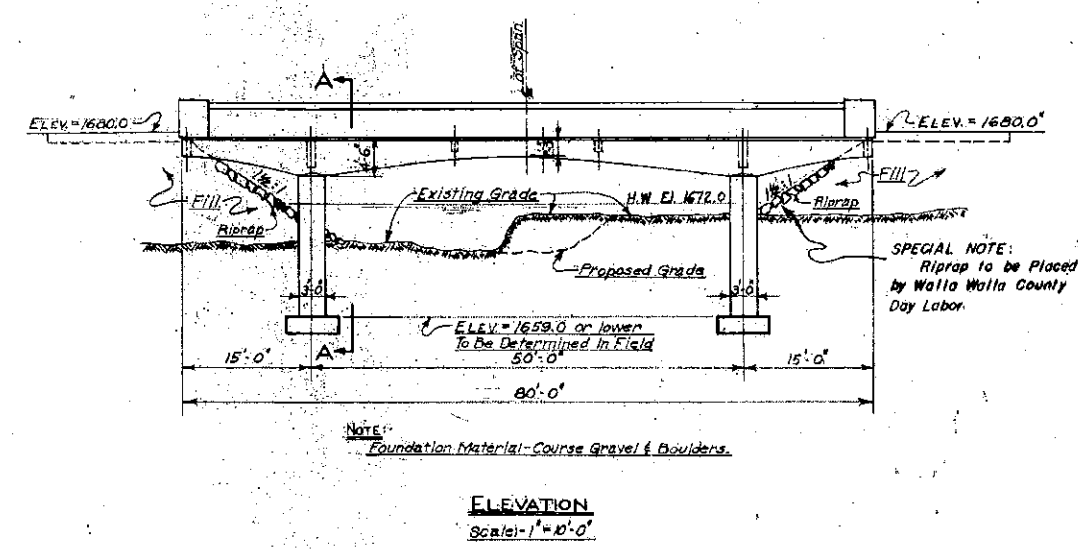
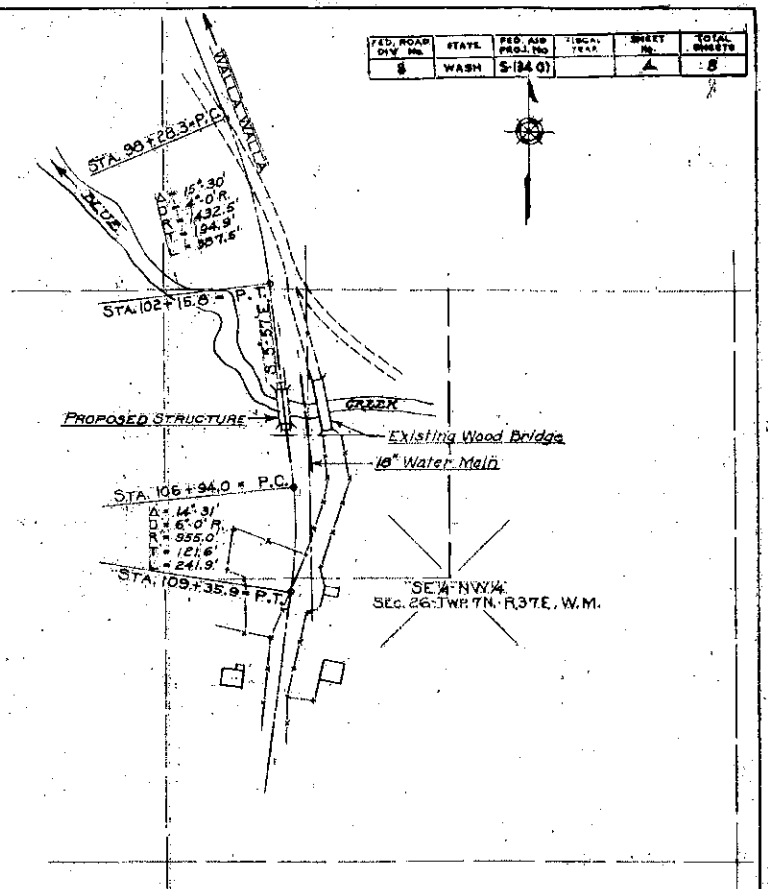
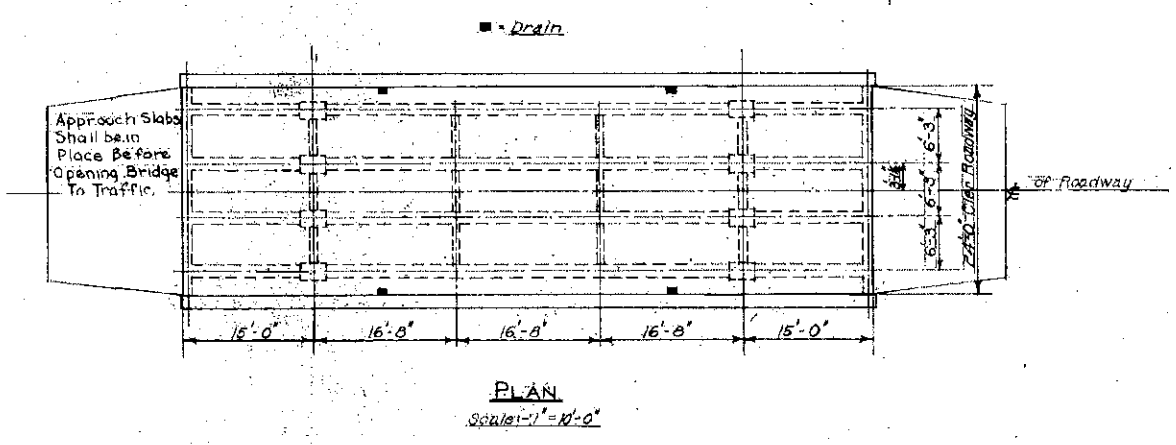
PUBLIC WORKS DEPARTMENT

10/19/2017
PLOT DATE



BLUE CREEK BRIDGE	
TRAFFIC CONTROL	T3

FED. ROAD DIV. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
8	WASH.	5-1240	8	8



APPROXIMATE QUANTITIES

EXCAVATION - Structure	190	Cu. Yds.
CONCRETE - Class A	134	Cu. Yds.
CONCRETE - Class B	23	Cu. Yds.
STEEL REINFORCING BARS	36482	Lbs.
BRIDGE DRAINS	4	Only
REINFORCED CONCRETE BRIDGE RAILINGS	165	Lm. Ft.

LOADING H 15 - S 12 (1944)

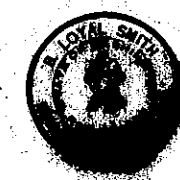
GENERAL NOTES:

All Material & Workmanship Shall be in Accordance With The Requirements of The State of Washington, Department of Highways, Standard Specifications for Road & Bridge Construction, Dated January, 1941.

Footing Elevations are Subject to Change Depending on Foundation Material Encountered, and Reinforcing Steel for Footings & Columns shall not be cut until final footing elevations have been determined in the field.

All Exposed Corners shall be Chamfered 1" unless shown or noted otherwise.

All falsework shall be released before placing concrete in handrails.

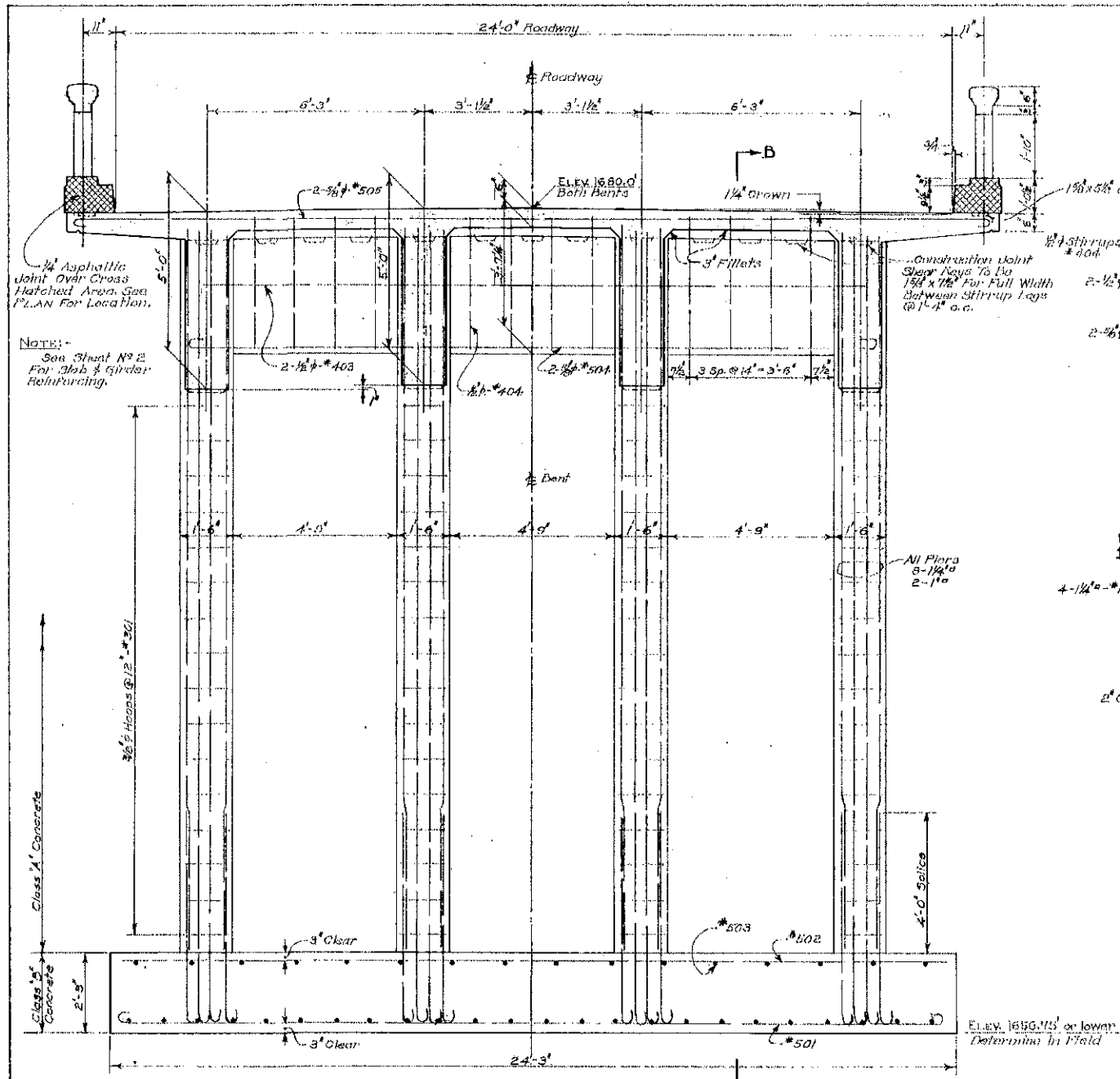


W.L. MALONY — BRIDGE ENGINEER
SYMONS BLDG. — SPOKANE, WASHINGTON

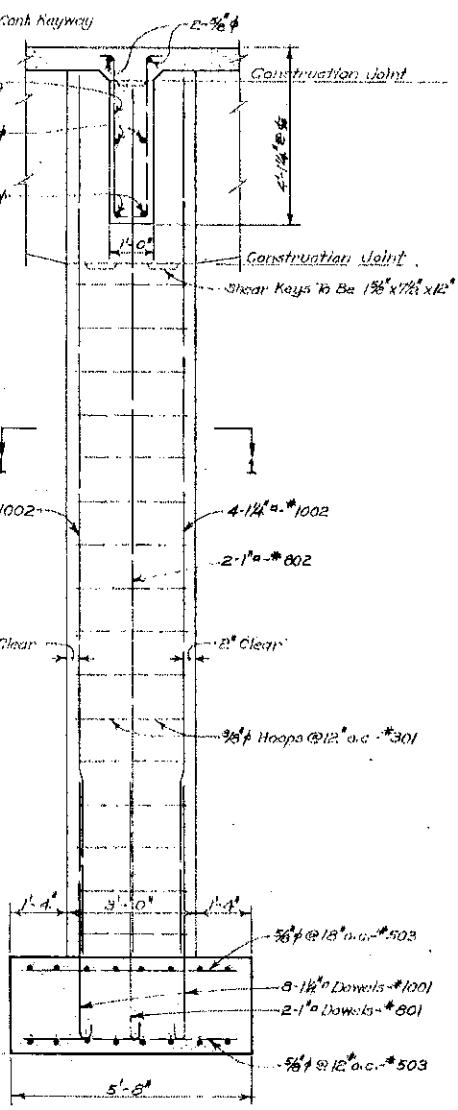
LAYOUT PLAN
COUNTY ROAD PROJECT NO 123
BLUE CREEK BRIDGE
OVER
BLUE CREEK
WALLA WALLA COUNTY
OFFICE COUNTY ENGINEER
WALLA WALLA, WASHINGTON
APPROVED MAY 23, 1947
SHEET NO 3 OF 6 SHEETS
COUNTY ENGINEER

Date	Added High Water Line	A.M.B.	
	Revision	By	Appr

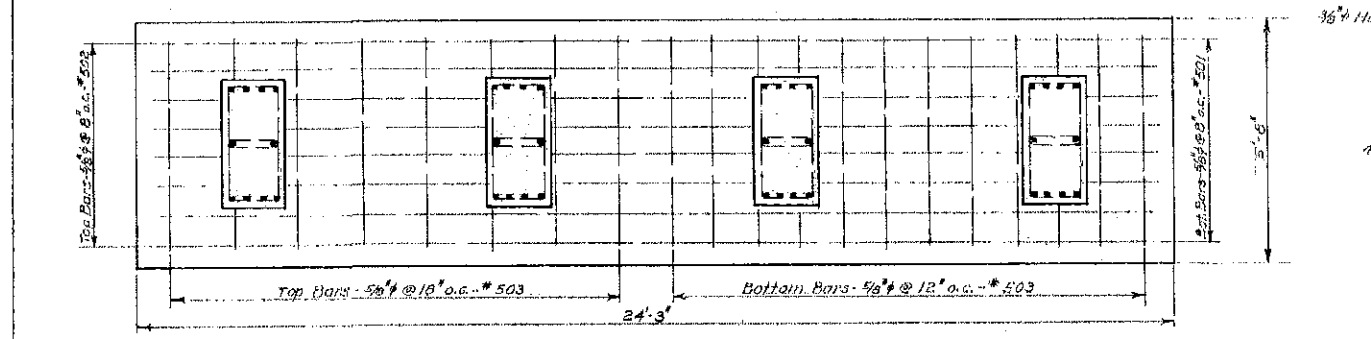
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
8	WASH.	3-124(8)		6	8



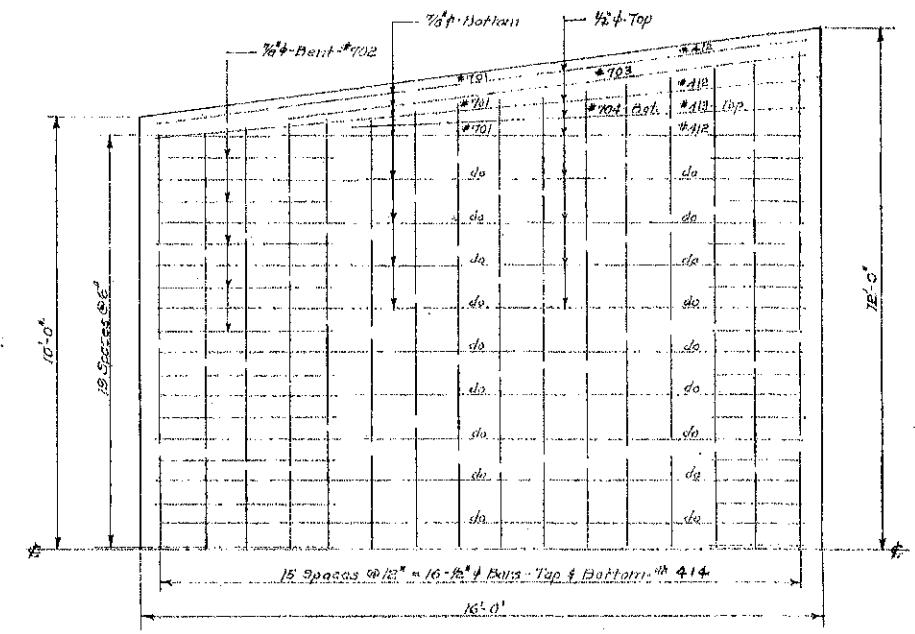
ELEVATION AT BENT
Scale: 1/8" = 1'-0"



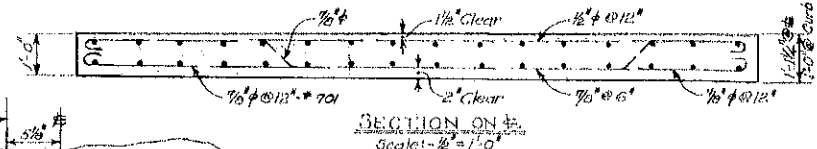
SECTION B-B
Scale: 1/8" = 1'-0"



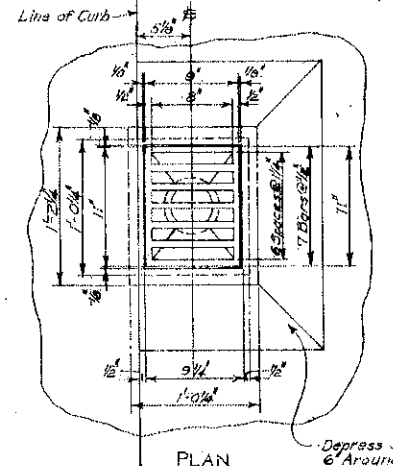
PLAN OF FOOTING
Scale: 1/8" = 1'-0"



HALF PLAN OF APPROACH SLAB
Scale: 1/4" = 1'-0"



SECTION ON #
Scale: 1/4" = 1'-0"



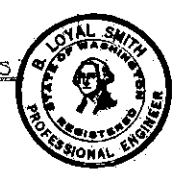
PLAN

SECTION

DRAIN DETAILS
Scale: 1/16" = 1'-0"
Four Required

SEQUENCE OF POURINGS

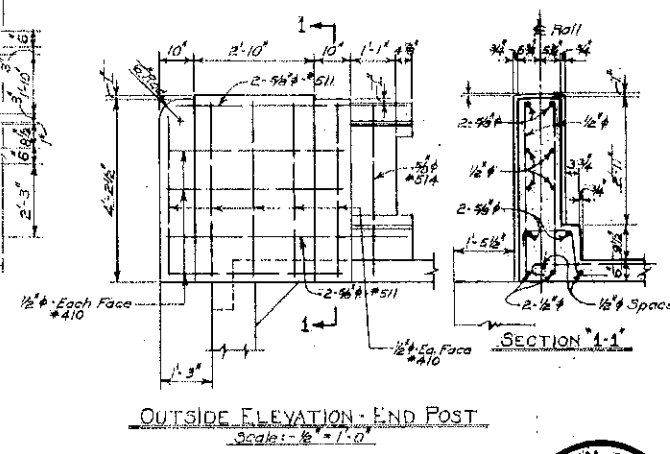
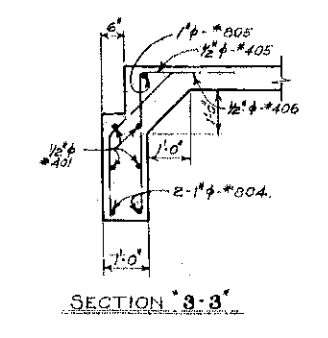
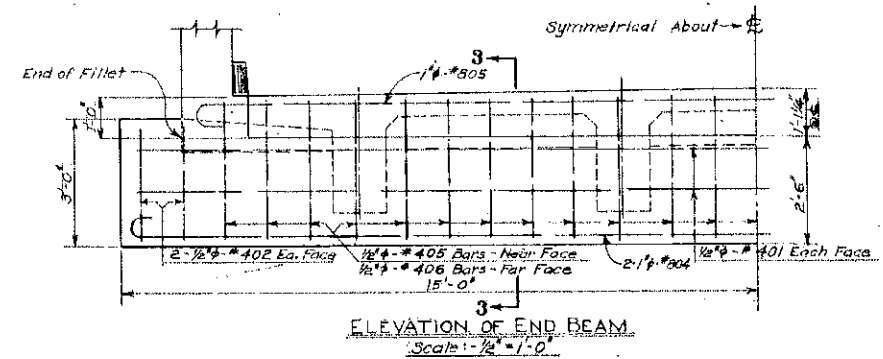
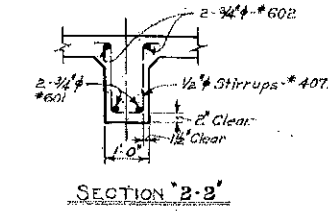
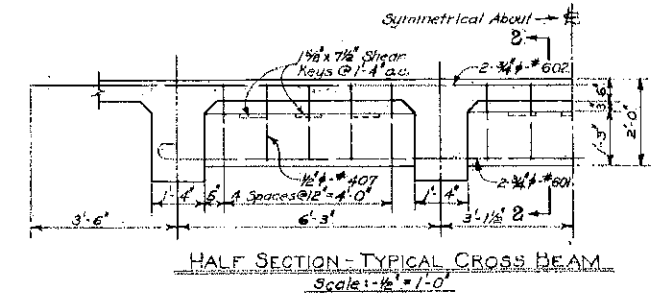
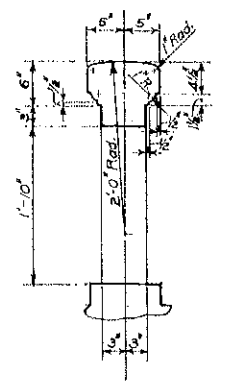
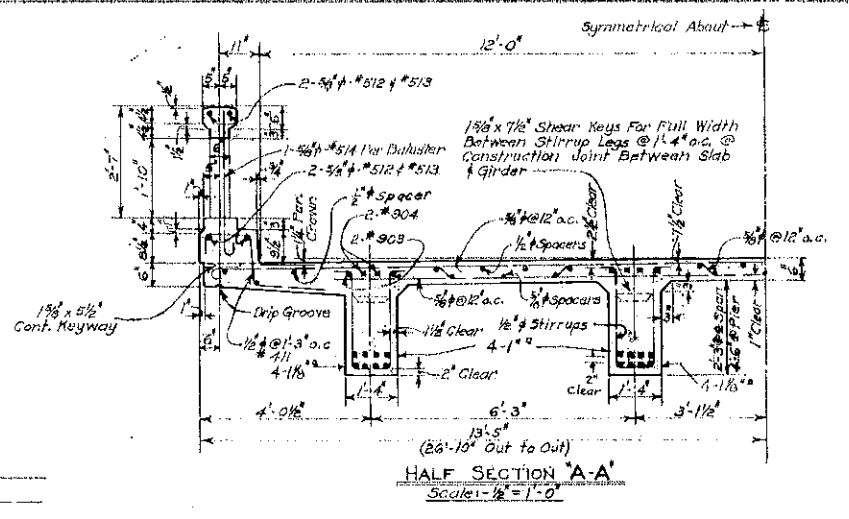
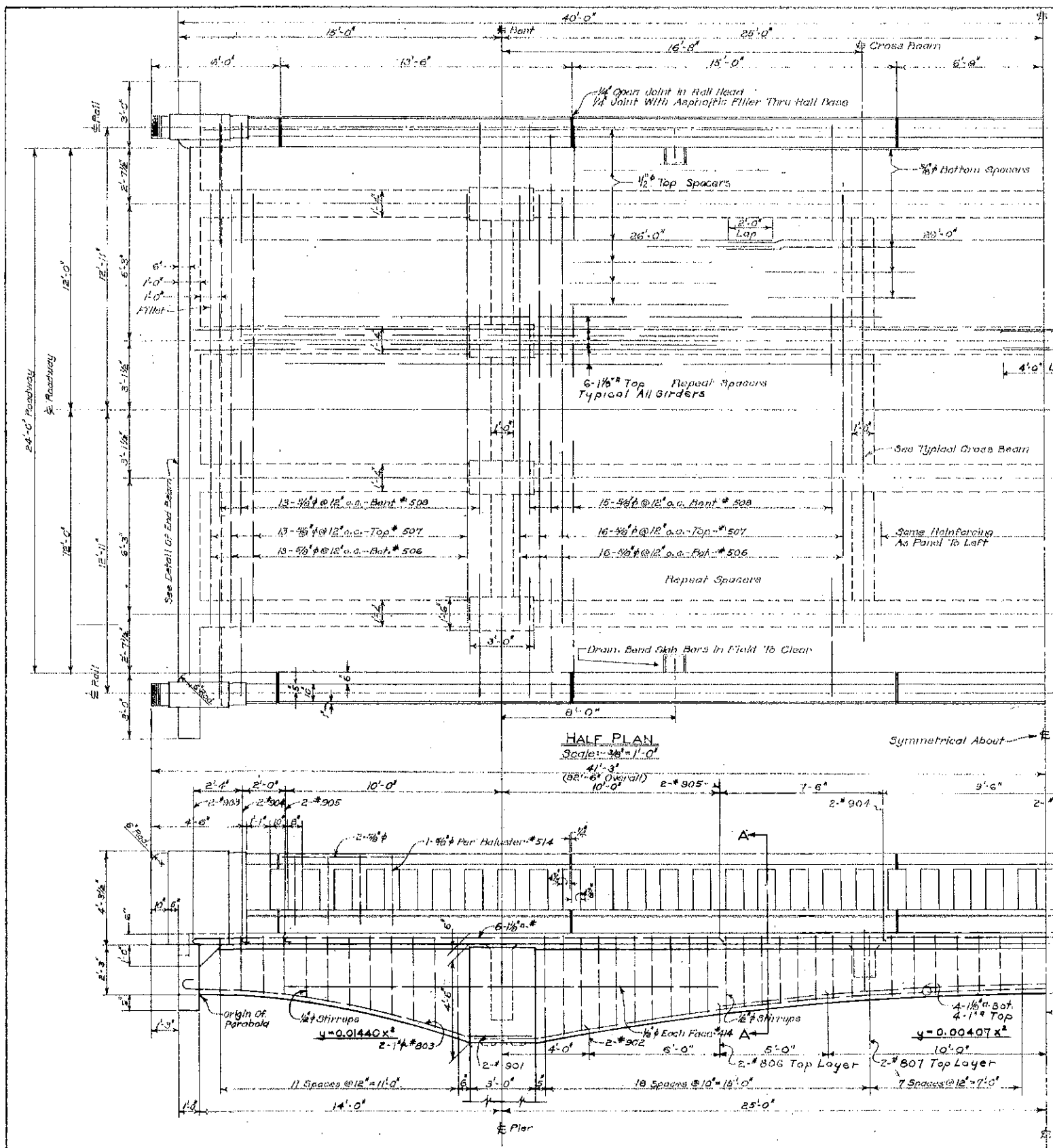
- Footings. Class B Concrete
 - Columns to Bottom of Girders. Class A Concrete
 - Girders, Beams & End Walls to Bottom of Slab Filllets. Class A Concrete
 - Roadway Slab. Class A Concrete
 - Curbs & Rails. Class A Concrete
- Pours No. 3 & 4 shall each be made in one continuous operation.



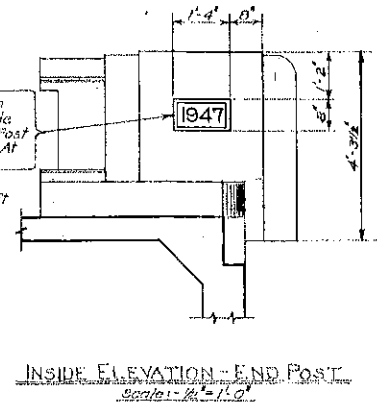
W. L. MALONY
SYMONS BLDG.
BRIDGE ENGINEER
SPOKANE, WASHINGTON

BENTS-MISC. DETAILS
COUNTY ROAD PROJECT NO. 123
BLUE CREEK BRIDGE
OVER
BLUE CREEK
WALLA WALLA COUNTY
OFFICE COUNTY ENGINEER
WALLA WALLA, WASHINGTON
APPROVED MAY 23, 1947
SHEET NO. 5 OF 6 SHEETS
COUNTY ENGINEER

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	WASH.	5-484(0)	5	8



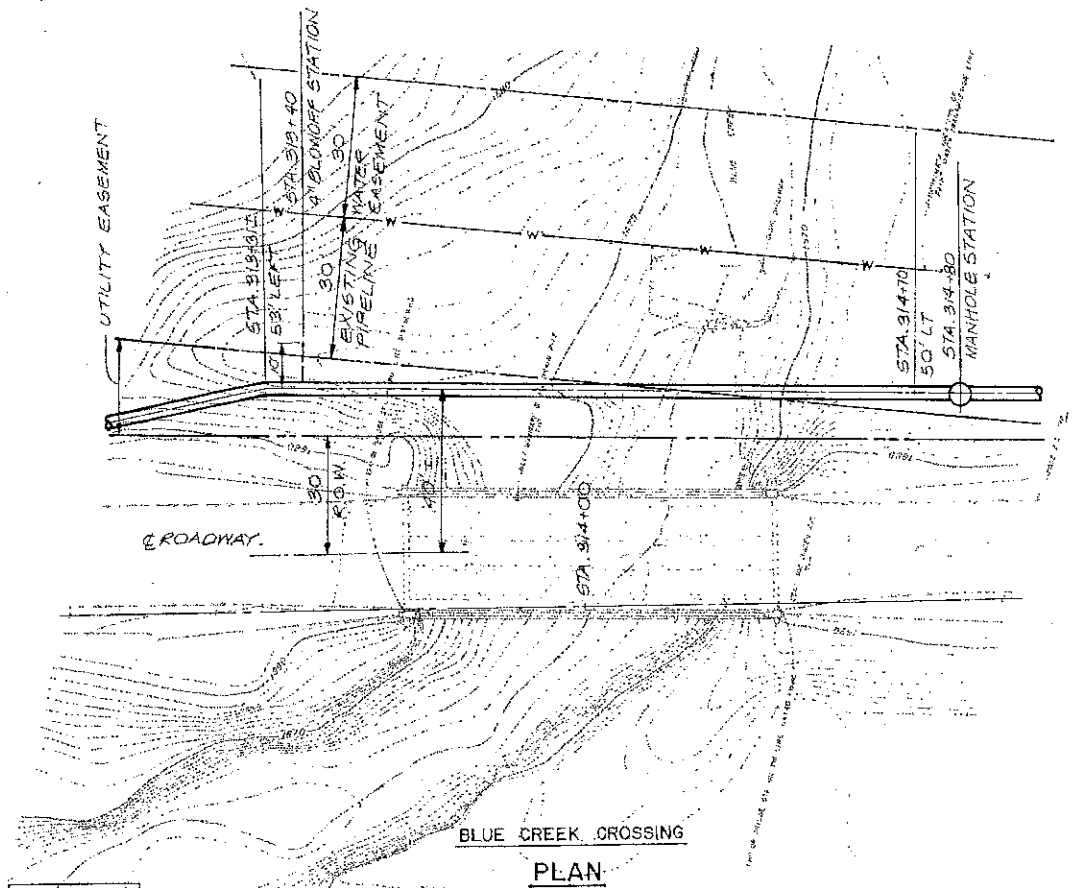
Standard Data Panel to be Placed at Center of Inside Face of Right Hand End Post for Approaching Traffic at Each End of Bridge.
Reinforcing Same as to Left



SUPERSTRUCTURE - PLAN & ELEVATION
COUNTY ROAD PROJECT NO 123
BLUE CREEK BRIDGE
 OVER
BLUE CREEK
 WALLA WALLA COUNTY
 OFFICE COUNTY ENGINEER
 WALLA WALLA, WASHINGTON
 APPROVED MAY 23, 1947
 SHEET NO. 5 OF 8 SHEETS
 COUNTY ENGINEER
 CONT. 333

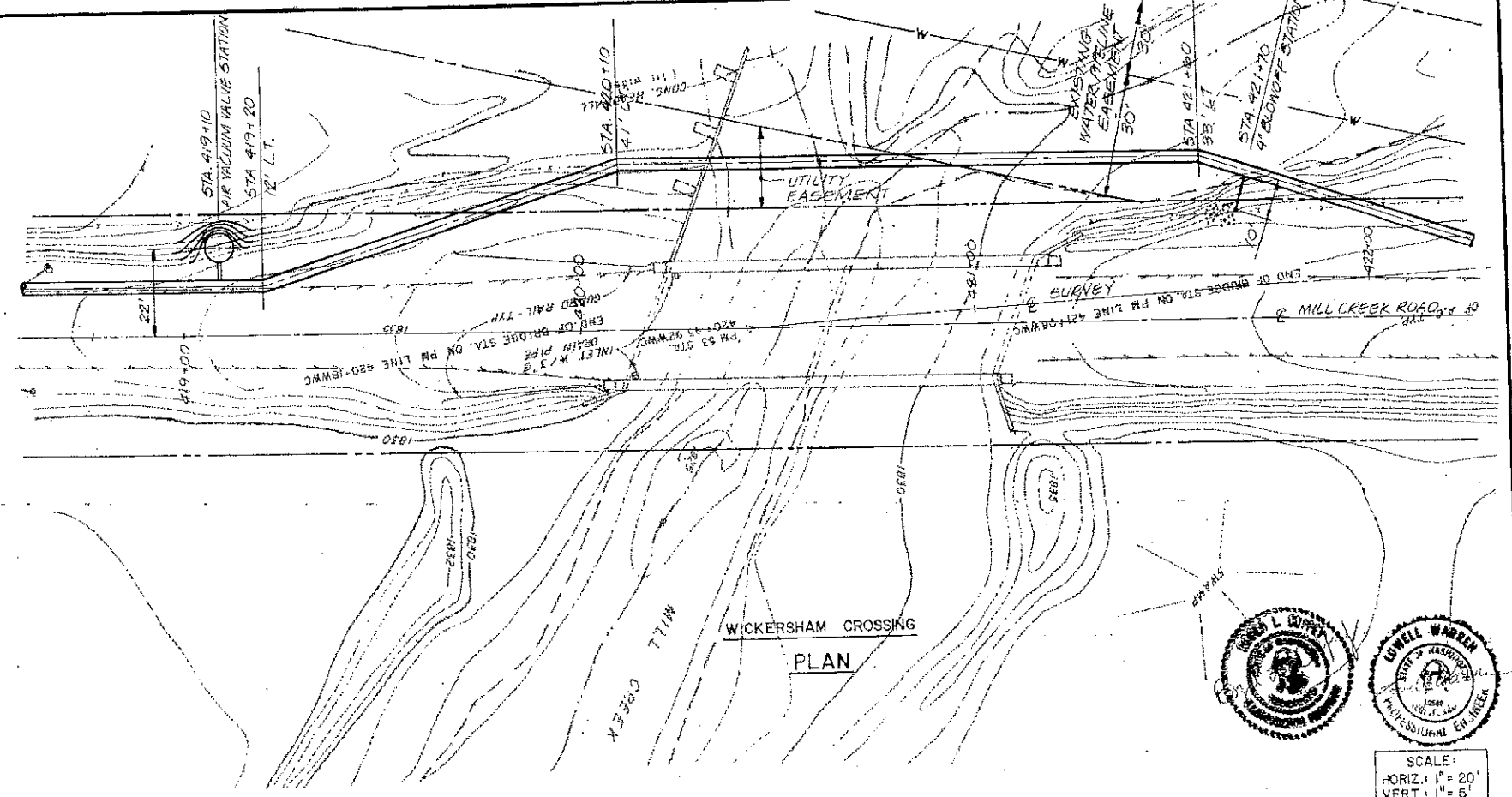
5/10/47	Added 1/2" Slab Spacer	G.H.A. Bull
Date	Revision	By

W.L. MALONY — BRIDGE ENGINEER
 SYMONS BLDG. — SPOKANE, WASHINGTON



PLAN

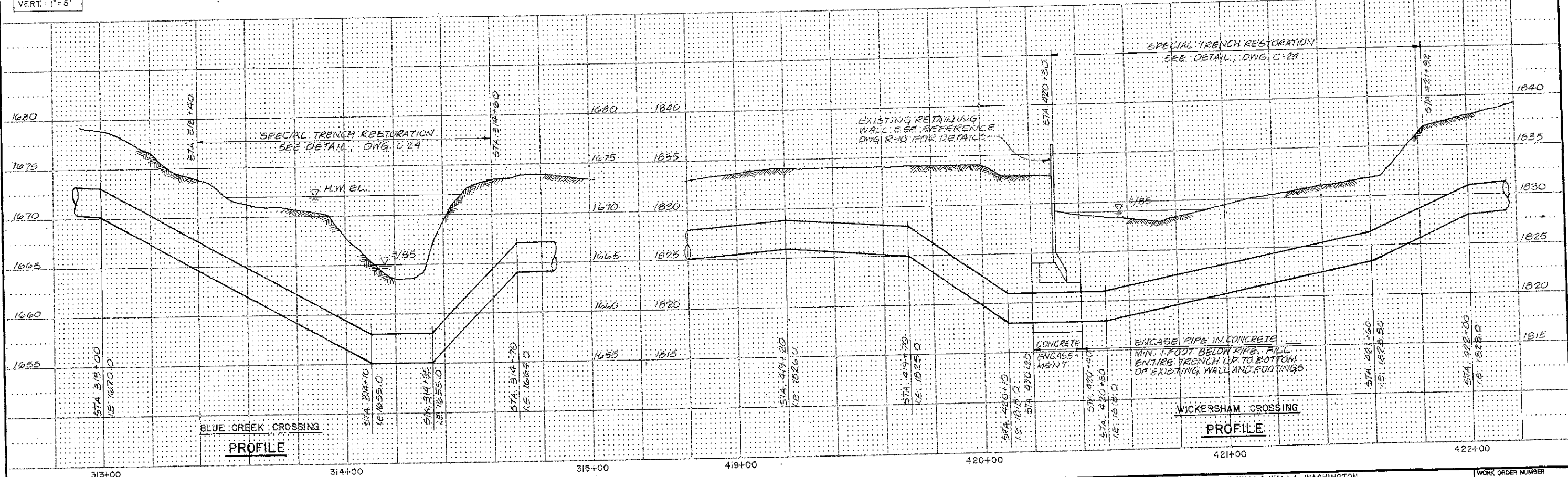
SCALE:
HORIZ. 1" = 20'
VERT. 1" = 5'



PLAN



SCALE:
HORIZ. 1" = 20'
VERT. 1" = 5'



PROFILE

PROFILE

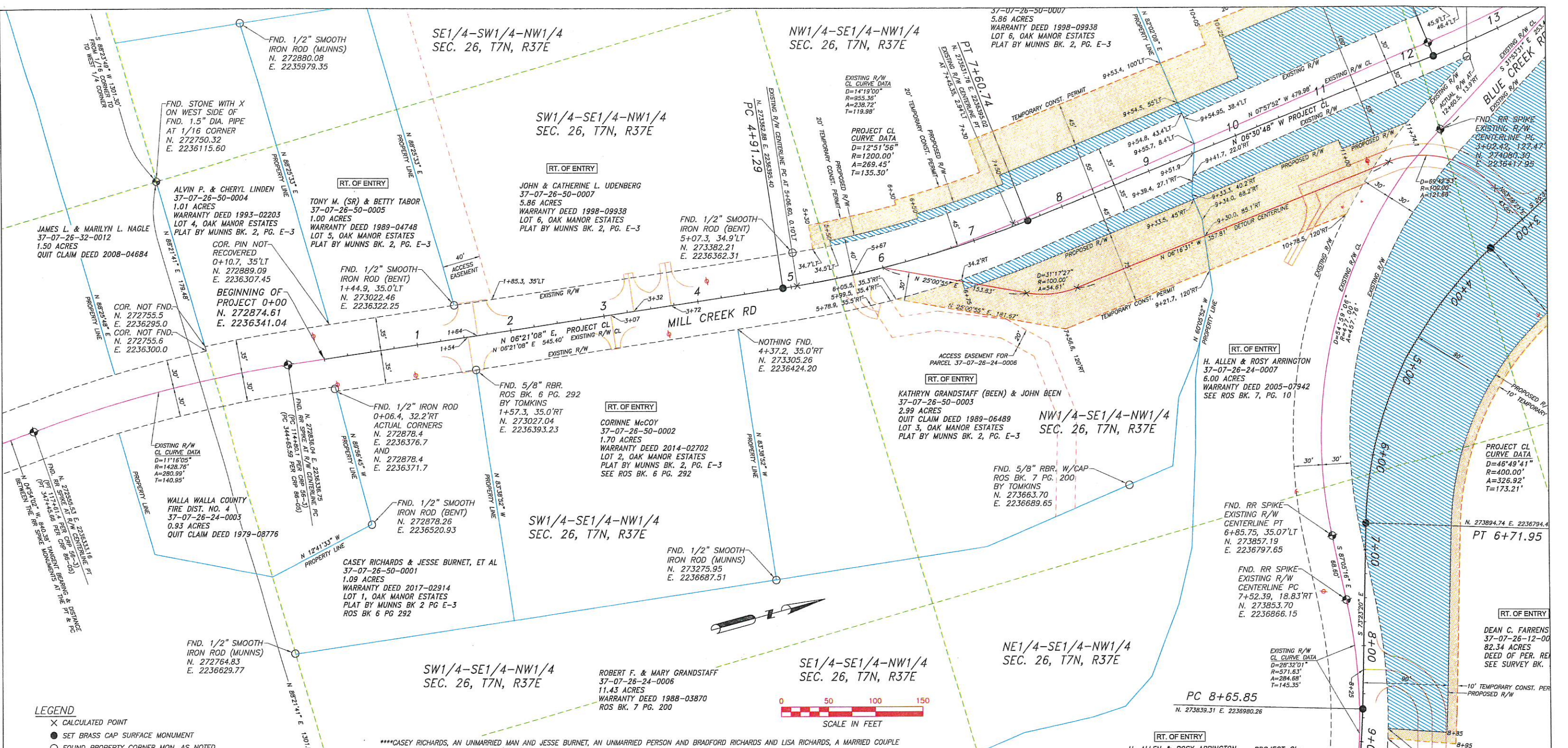
REV. NO.	DATE	DESCRIPTION
0	4-22-86	ISSUED FOR BIDS

DESIGNED RLC	CIVIL REVIEW J.W.P.	MECHANICAL REVIEW
DRAWN LEL	STRUCTURAL REVIEW J.W.P.	ELECTRICAL REVIEW J.W.P.
CHECKED RLC	DATE 4-22-86	APPROVED M.P.

R. W. BECK AND ASSOCIATES
ENGINEERS AND CONSULTANTS
SEATTLE, WASHINGTON DENVER, COLORADO

CITY OF WALLA WALLA, WASHINGTON
WATER TRANSMISSION PIPELINE / HYDROELECTRIC FACILITY
BLUE CREEK AND WICKERSHAM CROSSINGS

WORK ORDER NUMBER
JU-1485-WT-BD
DRAWING NUMBER
778-C-22.0
5-C-39



- LEGEND**
- X CALCULATED POINT
 - SET BRASS CAP SURFACE MONUMENT
 - FOUND PROPERTY CORNER MON. AS NOTED
 - ⊕ FOUND MONUMENT AS NOTED
 - FENCE LINE
 - PROPERTY LINE
 - PROJECT CENTERLINE
 - PROPOSED RIGHT OF WAY
 - SECTION SUBDIVISION LINE
 - EXISTING RIGHT OF WAY
 - EXISTING CENTERLINE OF RIGHT OF WAY
 - ▨ RIGHT OF WAY ACQUISITION AREA
 - ▨ TEMPORARY CONSTRUCTION PERMIT AREA

CENTER 1/4 COR.
FND. 2" PIPE WITH
1.5" BRASS CAP
ROS BK. 7 PG. 10
N. 272787.52
E. 2237416.09

***CASEY RICHARDS, AN UNMARRIED MAN AND JESSE BURNET, AN UNMARRIED PERSON AND BRADFORD RICHARDS AND LISA RICHARDS, A MARRIED COUPLE
*KATHRYN FRANCES GRANDSTAFF (BEEN) & JOHN DAVID BEEN

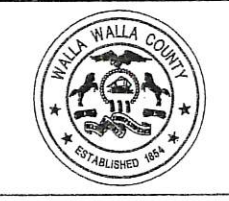
RIGHT OF WAY ACQUISITION, TEMPORARY CONSTRUCTION PERMIT AREAS, AND RIGHT OF ENTRY								
OWNER	PARCEL NUMBER	SIZE	R/W ACQUISITION IN ACRES	R/W ACQUISITION IN SQ.FT.	NET AREA IN ACRES	TEMPORARY CONST. PERMIT IN ACRES	TEMPORARY CONST. PERMIT IN SQ.FT.	RIGHT OF ENTRY YES or NO
ALVIN P. & CHERYL LINDEN	37-07-26-50-0004	1.010 AC	0.000 AC	000 SF	1.010 AC	0.000 AC	000 SF	NO
TONY M. (SR) & BETTY TABOR	37-07-26-50-0005	1.000 AC	0.000 AC	000 SF	1.000 AC	0.000 AC	000 SF	YES
JOHN & CATHERINE L. UDENBERG	37-07-26-50-0007	5.860 AC	0.097 AC	4,236 SF	5.793 AC	0.326 AC	14,207 SF	YES
WALLA WALLA COUNTY FIRE DIST. NO. 4	37-07-26-24-0003	0.930 AC	0.000 AC	000 SF	0.930 AC	0.000 AC	000 SF	NO
***CASEY RICHARDS & JESSE BURNET, ET AL	37-07-26-50-0001	1.090 AC	0.000 AC	000 SF	1.090 AC	0.000 AC	000 SF	NO
CORINNE McCOY	37-07-26-50-0002	1.700 AC	0.000 AC	000 SF	1.700 AC	0.000 AC	000 SF	YES
*KATHRYN GRANDSTAFF (BEEN) & JOHN BEEN	37-07-26-50-0003	2.990 AC	0.087 AC	3,796 SF	2.903 AC	0.425 AC	18,529 SF	YES
H. ALLEN & ROSY ARRINGTON	37-07-26-24-0007	6.000 AC	0.196 AC	8,540 SF	5.804 AC	0.327 AC	14,230 SF	YES

DRAWN: LDW	REGION NO. 10	STATE WASH	FEDERAL AID NO. BRS-K364(005)
DESIGNER: LDW	CRP NUMBER 15-01	SIGNATURE DATE 5/3/12	EXPIRATION DATE 3/31/16
CHECKED: JL	CONTRACT NUMBER TA-5753	34x22 SHEET 1"=50'	11x17 SHEET 1"=100'
PROJ. ENG.: DFE	START SHEETS 6-11-15	REV DATE	REVISION

3415 REGISTERED PROFESSIONAL LAND SURVEYOR



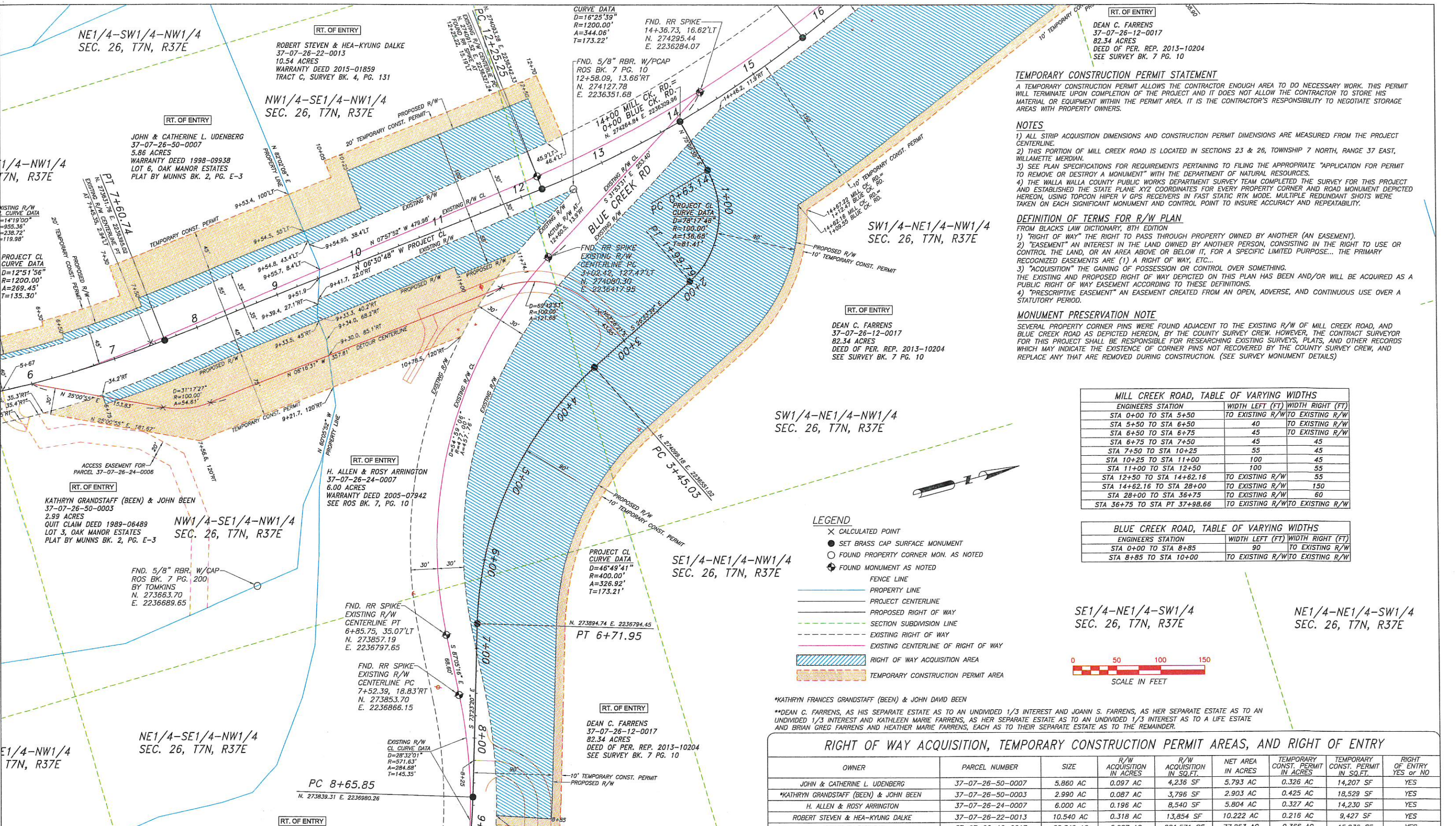
Walla Walla County
PUBLIC WORKS DEPARTMENT



BLUE CREEK BRIDGE PROJECT

RIGHT OF WAY PLAN

SHEET 1 OF 5 SHEETS



RT. OF ENTRY
 DEAN C. FARRENS
 37-07-26-12-0017
 82.34 ACRES
 DEED OF PER. REP. 2013-10204
 SEE SURVEY BK. 7 PG. 10

TEMPORARY CONSTRUCTION PERMIT STATEMENT
 A TEMPORARY CONSTRUCTION PERMIT ALLOWS THE CONTRACTOR ENOUGH AREA TO DO NECESSARY WORK. THIS PERMIT WILL TERMINATE UPON COMPLETION OF THE PROJECT AND IT DOES NOT ALLOW THE CONTRACTOR TO STORE HIS MATERIAL OR EQUIPMENT WITHIN THE PERMIT AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NEGOTIATE STORAGE AREAS WITH PROPERTY OWNERS.

NOTES
 1) ALL STRIP ACQUISITION DIMENSIONS AND CONSTRUCTION PERMIT DIMENSIONS ARE MEASURED FROM THE PROJECT CENTERLINE.
 2) THIS PORTION OF MILL CREEK ROAD IS LOCATED IN SECTIONS 23 & 26, TOWNSHIP 7 NORTH, RANGE 37 EAST, WILLAMETTE MERIDIAN.
 3) SEE PLAN SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO FILING THE APPROPRIATE "APPLICATION FOR PERMIT TO REMOVE OR DESTROY A MONUMENT" WITH THE DEPARTMENT OF NATURAL RESOURCES.
 4) THE WALLA WALLA COUNTY PUBLIC WORKS DEPARTMENT SURVEY TEAM COMPLETED THE SURVEY FOR THIS PROJECT AND ESTABLISHED THE STATE PLANE XYZ COORDINATES FOR EVERY PROPERTY CORNER AND ROAD MONUMENT DEPICTED HEREON, USING TOPCON HIPER V GPS RECEIVERS IN FAST STATIC RTK MODE. MULTIPLE REDUNDANT SHOTS WERE TAKEN ON EACH SIGNIFICANT MONUMENT AND CONTROL POINT TO INSURE ACCURACY AND REPEATABILITY.

DEFINITION OF TERMS FOR R/W PLAN
 FROM BLACKS LAW DICTIONARY, 8TH EDITION
 1) "RIGHT OF WAY" THE RIGHT TO PASS THROUGH PROPERTY OWNED BY ANOTHER (AN EASEMENT).
 2) "EASEMENT" AN INTEREST IN THE LAND OWNED BY ANOTHER PERSON, CONSISTING IN THE RIGHT TO USE OR CONTROL THE LAND, OR AN AREA ABOVE OR BELOW IT, FOR A SPECIFIC LIMITED PURPOSE... THE PRIMARY RECOGNIZED EASEMENTS ARE (1) A RIGHT OF WAY, ETC...
 3) "ACQUISITION" THE GAINING OF POSSESSION OR CONTROL OVER SOMETHING.
 THE EXISTING AND PROPOSED RIGHT OF WAY DEPICTED ON THIS PLAN HAS BEEN AND/OR WILL BE ACQUIRED AS A PUBLIC RIGHT OF WAY EASEMENT ACCORDING TO THESE DEFINITIONS.
 4) "PRESCRIPTIVE EASEMENT" AN EASEMENT CREATED FROM AN OPEN, ADVERSE, AND CONTINUOUS USE OVER A STATUTORY PERIOD.

MONUMENT PRESERVATION NOTE
 SEVERAL PROPERTY CORNER PINS WERE FOUND ADJACENT TO THE EXISTING R/W OF MILL CREEK ROAD, AND BLUE CREEK ROAD AS DEPICTED HEREON, BY THE COUNTY SURVEY CREW. HOWEVER, THE CONTRACT SURVEYOR FOR THIS PROJECT SHALL BE RESPONSIBLE FOR RESEARCHING EXISTING SURVEYS, PLATS, AND OTHER RECORDS WHICH MAY INDICATE THE EXISTENCE OF CORNER PINS NOT RECOVERED BY THE COUNTY SURVEY CREW, AND REPLACE ANY THAT ARE REMOVED DURING CONSTRUCTION. (SEE SURVEY MONUMENT DETAILS)

MILL CREEK ROAD, TABLE OF VARYING WIDTHS

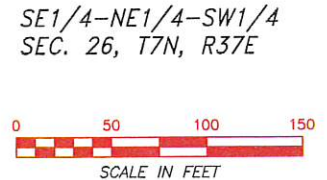
ENGINEERS STATION	WIDTH LEFT (FT) TO EXISTING R/W	WIDTH RIGHT (FT) TO EXISTING R/W
STA 0+00 TO STA 5+50	40	45
STA 5+50 TO STA 6+50	45	45
STA 6+50 TO STA 7+50	45	45
STA 7+50 TO STA 10+25	55	45
STA 10+25 TO STA 11+00	100	45
STA 11+00 TO STA 12+50	100	55
STA 12+50 TO STA 14+62.16	TO EXISTING R/W	55
STA 14+62.16 TO STA 28+00	TO EXISTING R/W	150
STA 28+00 TO STA 36+75	TO EXISTING R/W	60
STA 36+75 TO STA PT 37+98.66	TO EXISTING R/W	TO EXISTING R/W

BLUE CREEK ROAD, TABLE OF VARYING WIDTHS

ENGINEERS STATION	WIDTH LEFT (FT) TO EXISTING R/W	WIDTH RIGHT (FT) TO EXISTING R/W
STA 0+00 TO STA 8+85	90	TO EXISTING R/W
STA 8+85 TO STA 10+00	TO EXISTING R/W	TO EXISTING R/W

LEGEND

- ✕ CALCULATED POINT
- SET BRASS CAP SURFACE MONUMENT
- FOUND PROPERTY CORNER MON. AS NOTED
- ⊕ FOUND MONUMENT AS NOTED
- FENCE LINE
- PROPERTY LINE
- PROJECT CENTERLINE
- PROPOSED RIGHT OF WAY
- SECTION SUBDIVISION LINE
- EXISTING RIGHT OF WAY
- EXISTING CENTERLINE OF RIGHT OF WAY
- ▨ RIGHT OF WAY ACQUISITION AREA
- ▨ TEMPORARY CONSTRUCTION PERMIT AREA



*KATHRYN FRANCES GRANDSTAFF (BEEN) & JOHN DAVID BEEN
 **DEAN C. FARRENS, AS HIS SEPARATE ESTATE AS TO AN UNDIVIDED 1/3 INTEREST AND JOANN S. FARRENS, AS HER SEPARATE ESTATE AS TO AN UNDIVIDED 1/3 INTEREST AND KATHLEEN MARIE FARRENS, AS HER SEPARATE ESTATE AS TO AN UNDIVIDED 1/3 INTEREST AS TO A LIFE ESTATE AND BRIAN GREG FARRENS AND HEATHER MARIE FARRENS, EACH AS TO THEIR SEPARATE ESTATE AS TO THE REMAINDER.

RIGHT OF WAY ACQUISITION, TEMPORARY CONSTRUCTION PERMIT AREAS, AND RIGHT OF ENTRY

OWNER	PARCEL NUMBER	SIZE	R/W ACQUISITION IN ACRES	R/W ACQUISITION IN SQ.FT.	NET AREA IN ACRES	TEMPORARY CONST. PERMIT IN ACRES	TEMPORARY CONST. PERMIT IN SQ.FT.	RIGHT OF ENTRY YES or NO
JOHN & CATHERINE L. UDENBERG	37-07-26-50-0007	5.860 AC	0.097 AC	4,236 SF	5.793 AC	0.326 AC	14,207 SF	YES
*KATHRYN GRANDSTAFF (BEEN) & JOHN BEEN	37-07-26-50-0003	2.990 AC	0.087 AC	3,796 SF	2.903 AC	0.425 AC	18,529 SF	YES
H. ALLEN & ROSY ARRINGTON	37-07-26-24-0007	6.000 AC	0.196 AC	8,540 SF	5.804 AC	0.327 AC	14,230 SF	YES
ROBERT STEVEN & HEA-KYUNG DALKE	37-07-26-22-0013	10.540 AC	0.318 AC	13,854 SF	10.222 AC	0.216 AC	9,427 SF	YES
**DEAN C. FARRENS	37-07-26-12-0017	82.340 AC	5.087 AC	221,571 SF	77.253 AC	0.366 AC	15,936 SF	YES

DRAWN: LDW	REGION NO.	FEDERAL AID NO. BRS-K364(005)
DESIGNER: LDW	STATE 10 WASH	EXPIRATION DATE 3/31/18
CHECKED: JL	CRP NUMBER 15-01	SIGNATURE DATE 5/31/17
PROJ. ENG.: DFE	CONTRACT NUMBER TA-5753	34x22 SHEET 1"=50'
START SHEETS 6-11-15	REV DATE	REVISION
BY	APP'D	11x17 SHEET 1"=100'



Walla Walla County
 PUBLIC WORKS DEPARTMENT



BLUE CREEK BRIDGE PROJECT

RIGHT OF WAY PLAN

TEMPORARY CONSTRUCTION PERMIT STATEMENT

A TEMPORARY CONSTRUCTION PERMIT ALLOWS THE CONTRACTOR ENOUGH AREA TO DO NECESSARY WORK. THIS PERMIT WILL TERMINATE UPON COMPLETION OF THE PROJECT AND IT DOES NOT ALLOW THE CONTRACTOR TO STORE HIS MATERIAL OR EQUIPMENT WITHIN THE PERMIT AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NEGOTIATE STORAGE AREAS WITH PROPERTY OWNERS.

NOTES

- 1) ALL STRIP ACQUISITION DIMENSIONS AND CONSTRUCTION PERMIT DIMENSIONS ARE MEASURED FROM THE PROJECT CENTERLINE.
- 2) THIS PORTION OF MILL CREEK ROAD IS LOCATED IN SECTIONS 23 & 26, TOWNSHIP 7 NORTH, RANGE 37 EAST, WILLAMETTE MERIDIAN.
- 3) SEE PLAN SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO FILING THE APPROPRIATE "APPLICATION FOR PERMIT TO REMOVE OR DESTROY A MONUMENT" WITH THE DEPARTMENT OF NATURAL RESOURCES.
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DEFINITION OF TERMS FOR R/W PLAN

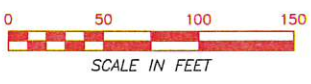
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MONUMENT PRESERVATION NOTE

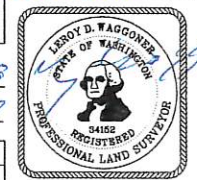
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ROAD RIGHT OF WAY ESTABLISHMENT HISTORY

MILL CREEK ROAD, WAS ORIGINALLY PETITIONED BY "MR. A. DODGE" IN JULY 1863, AND IT WAS APPROVED UNDER ESTABLISHMENT NUMBER 14. A LARGE CHANGE IN THE LOCATION AND ALIGNMENT OF THE ROAD NECESSITATED THE RE-ESTABLISHMENT OF MILL CREEK ROAD IN MAY 1874 UNDER ESTABLISHMENT NUMBER 158. IN 1947 (CRP No. 144) AND 1948 (CRP No. 152) ANOTHER MAJOR RE-ALIGNMENT AND RE-CONSTRUCTION WAS CONDUCTED FROM THE INTERSECTION OF SEVEN MILE BRIDGE ROAD EASTERLY AND SOUTHERLY TO A POINT JUST PAST BLUE CREEK BRIDGE. THE COUNTY FINALIZED THIS RIGHT OF WAY RE-ALIGNMENT OFFICIALLY BY "ORDER OF ESTABLISHMENT" ON FEBRUARY 15, 1972, UNDER ESTABLISHMENT NUMBER 1052. PER THESE ESTABLISHMENTS RECORDS THE COUNTY HAS CLAIMED A 60 FOOT RIGHT OF WAY WIDTH FOR MANY YEARS. ALSO, IN MORE RECENT YEARS ADDITIONAL STRIPS OF RIGHT OF WAY HAVE BEEN ACQUIRED BY DEDICATIONS ON SHORT PLATS OR BY DIRECT CONVEYANCE THROUGH A QUIT CLAIM DEED OR A RIGHT OF WAY EASEMENT DEED FOR A COUNTY ROAD PROJECT. NO MATTER HOW IT WAS ACQUIRED, THE EXISTING RIGHT OF WAY DEPICTED ON THESE PLANS IS LABELED AS SUCH. BLUE CREEK ROAD, WAS PETITIONED BY M. ROBINSON IN MAY OF 1878 AND ADOPTED THE SAME YEAR WITH A 60' RIGHT OF WAY WIDTH.



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DESIGNER: LDW	CRP NUMBER 15-01	EXPIRATION DATE 3/31/18	SIGNATURE DATE 5/31/17
CHECKED: JL	CONTRACT NUMBER TA-5753	34x22 SHEET 1"=50'	11x17 SHEET 1"=100'
PROJ. ENG.: DFE	START SHEETS 6-11-15	REV DATE	REVISION
BY	APP'D		



Walla Walla County
PUBLIC WORKS DEPARTMENT



BLUE CREEK BRIDGE PROJECT

RIGHT OF WAY PLAN

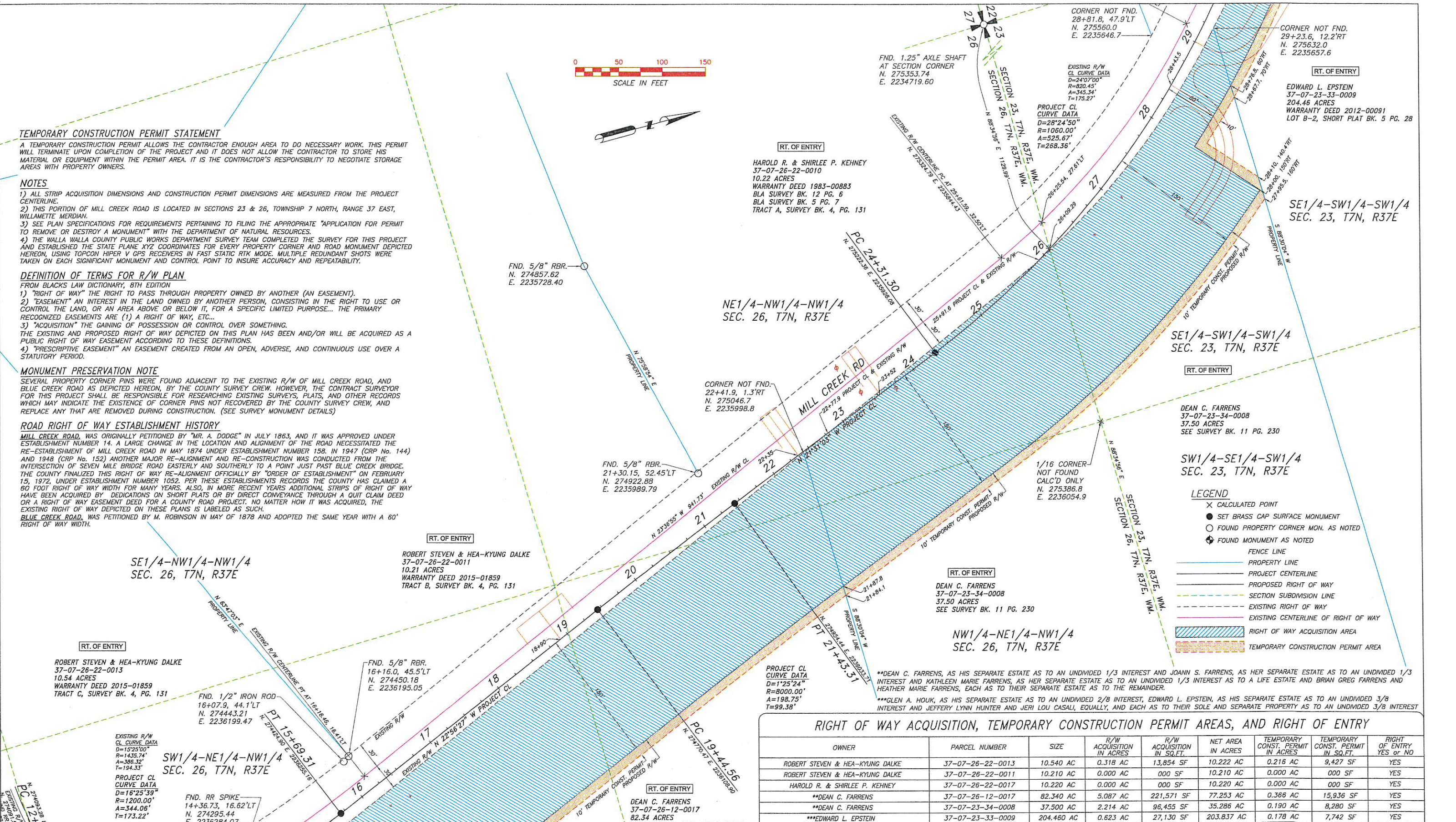
SHEET 3 OF 5 SHEETS

RIGHT OF WAY ACQUISITION, TEMPORARY CONSTRUCTION PERMIT AREAS, AND RIGHT OF ENTRY

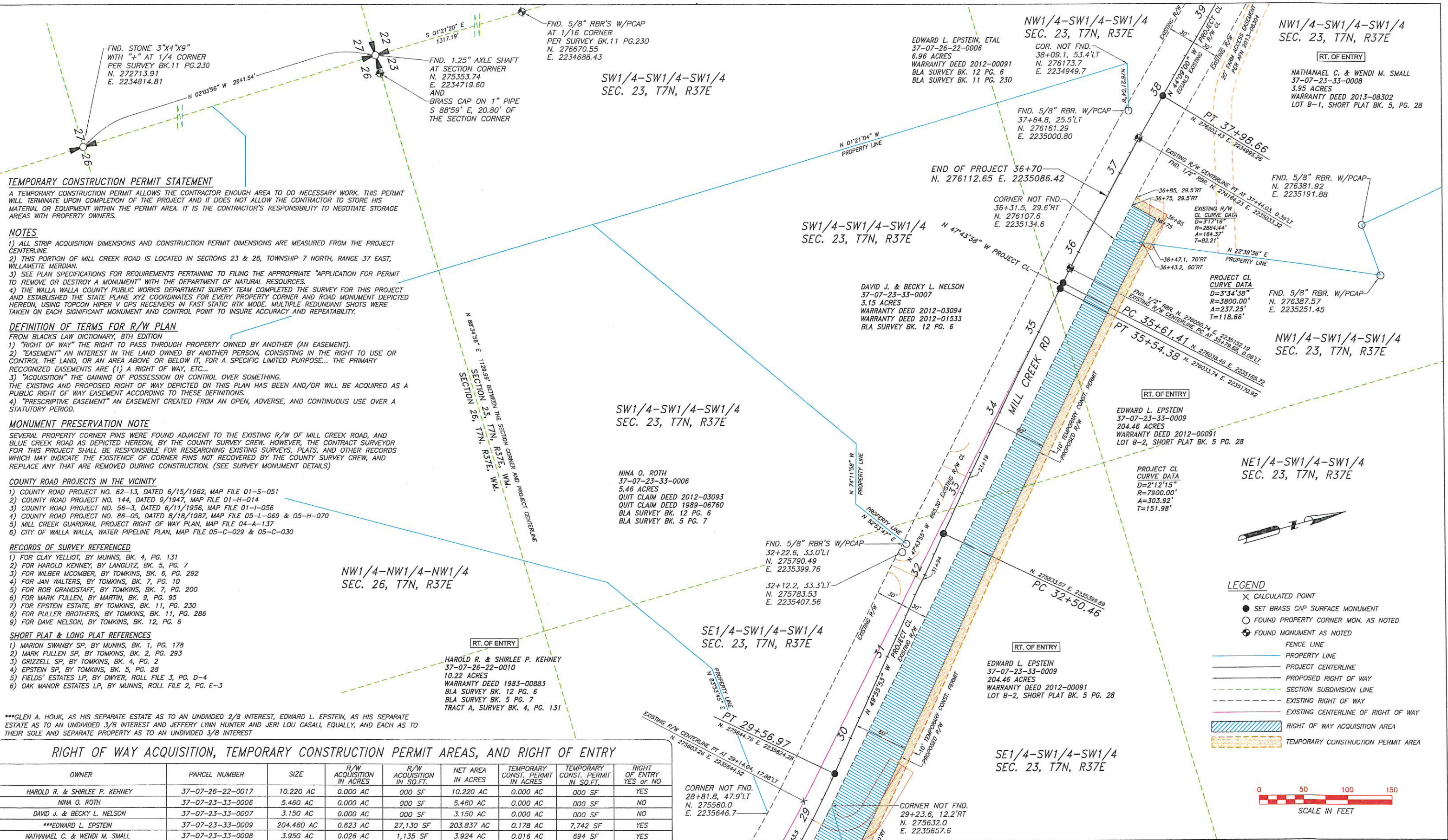
OWNER	PARCEL NUMBER	SIZE	R/W ACQUISITION IN ACRES	R/W ACQUISITION IN SQ.FT.	NET AREA IN ACRES	TEMPORARY CONST. PERMIT IN ACRES	TEMPORARY CONST. PERMIT IN SQ.FT.	RIGHT OF ENTRY YES or NO
ROBERT STEVEN & HEA-KYUNG DALKE	37-07-26-22-0013	10.540 AC	0.318 AC	13,854 SF	10.222 AC	0.216 AC	9,427 SF	YES
ROBERT STEVEN & HEA-KYUNG DALKE	37-07-26-22-0011	10.210 AC	0.000 AC	000 SF	10.210 AC	0.000 AC	000 SF	YES
HAROLD R. & SHIRLEE P. KEHNEY	37-07-26-22-0017	10.220 AC	0.000 AC	000 SF	10.220 AC	0.000 AC	000 SF	YES
**DEAN C. FARRENS	37-07-26-12-0017	82.340 AC	5.087 AC	221,571 SF	77.253 AC	0.366 AC	15,936 SF	YES
**DEAN C. FARRENS	37-07-23-34-0008	37.500 AC	2.214 AC	96,455 SF	35.286 AC	0.190 AC	8,280 SF	YES
***EDWARD L. EPSTEIN	37-07-23-33-0009	204.460 AC	0.623 AC	27,130 SF	203.837 AC	0.178 AC	7,742 SF	YES

**DEAN C. FARRENS, AS HIS SEPARATE ESTATE AS TO AN UNDIVIDED 1/3 INTEREST AND JOANN S. FARRENS, AS HER SEPARATE ESTATE AS TO AN UNDIVIDED 1/3 INTEREST AND KATHLEEN MARIE FARRENS, AS HER SEPARATE ESTATE AS TO AN UNDIVIDED 1/3 INTEREST AS TO A LIFE ESTATE AND BRIAN GREG FARRENS AND HEATHER MARIE FARRENS, EACH AS TO THEIR SEPARATE ESTATE AS TO THE REMAINDER.
***GLEN A. HOUK, AS HIS SEPARATE ESTATE AS TO AN UNDIVIDED 2/8 INTEREST, EDWARD L. EPSTEIN, AS HIS SEPARATE ESTATE AS TO AN UNDIVIDED 3/8 INTEREST AND JEFFERY LYNN HUNTER AND JERI LOU CASALI, EQUALLY, AND EACH AS TO THEIR SOLE AND SEPARATE PROPERTY AS TO AN UNDIVIDED 3/8 INTEREST

- LEGEND**
- X CALCULATED POINT
 - SET BRASS CAP SURFACE MONUMENT
 - FOUND PROPERTY CORNER MON. AS NOTED
 - ◆ FOUND MONUMENT AS NOTED
 - FENCE LINE
 - PROPERTY LINE
 - PROJECT CENTERLINE
 - PROPOSED RIGHT OF WAY
 - SECTION SUBDIVISION LINE
 - EXISTING RIGHT OF WAY
 - EXISTING CENTERLINE OF RIGHT OF WAY
 - ▨ RIGHT OF WAY ACQUISITION AREA
 - ▨ TEMPORARY CONSTRUCTION PERMIT AREA



NE1/4-NW1/4-NW1/4 SEC. 26, T7N, R37E
 SE1/4-SW1/4-SW1/4 SEC. 23, T7N, R37E
 SW1/4-NE1/4-NW1/4 SEC. 26, T7N, R37E
 NW1/4-NE1/4-NW1/4 SEC. 26, T7N, R37E



TEMPORARY CONSTRUCTION PERMIT STATEMENT
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- NOTES**
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- COUNTY ROAD PROJECTS IN THE VICINITY**
- 1) COUNTY ROAD PROJECT NO. 62-13, DATED 6/15/1962, MAP FILE 01-S-051
 - 2) COUNTY ROAD PROJECT NO. 144, DATED 9/1947, MAP FILE 01-H-014
 - 3) COUNTY ROAD PROJECT NO. 56-3, DATED 6/11/1956, MAP FILE 01-I-056
 - 4) COUNTY ROAD PROJECT NO. 86-05, DATED 8/18/1987, MAP FILE 05-L-069 & 05-H-070
 - 5) MILL CREEK GUARDRAIL PROJECT RIGHT OF WAY PLAN, MAP FILE 04-A-137
 - 6) CITY OF WALLA WALLA, WATER PIPELINE PLAN, MAP FILE 05-C-029 & 05-C-030

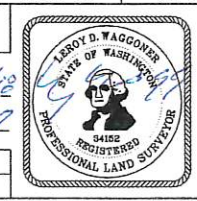
- RECORDS OF SURVEY REFERENCED**
- 1) FOR CLAY YELLIOT, BY MUNNS, BK. 4, PG. 131
 - 2) FOR HAROLD KENNEY, BY LANGLITZ, BK. 5, PG. 7
 - 3) FOR WILBER MCOMBER, BY TOMKINS, BK. 6, PG. 292
 - 4) FOR JAN WALTERS, BY TOMKINS, BK. 7, PG. 10
 - 5) FOR ROB GRANDSTAFF, BY TOMKINS, BK. 7, PG. 200
 - 6) FOR MARK FULLEN, BY MARTIN, BK. 9, PG. 95
 - 7) FOR EPSTEIN ESTATE, BY TOMKINS, BK. 11, PG. 230
 - 8) FOR FULLER BROTHERS, BY TOMKINS, BK. 11, PG. 286
 - 9) FOR DAVE NELSON, BY TOMKINS, BK. 12, PG. 6

- SHORT PLAT & LONG PLAT REFERENCES**
- 1) MARION SWANBY SP, BY MUNNS, BK. 1, PG. 178
 - 2) MARK FULLEN SP, BY TOMKINS, BK. 2, PG. 293
 - 3) GRIZZELL SP, BY TOMKINS, BK. 4, PG. 2
 - 4) EPSTEIN SP, BY TOMKINS, BK. 5, PG. 28
 - 5) FIELDS' ESTATES LP, BY DWYER, ROLL FILE 3, PG. D-4
 - 6) OAK MANOR ESTATES LP, BY MUNNS, ROLL FILE 2, PG. E-3

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OWNER	PARCEL NUMBER	SIZE	R/W ACQUISITION IN ACRES	R/W ACQUISITION IN SQ.FT.	NET AREA IN ACRES	TEMPORARY CONST. PERMIT IN ACRES	TEMPORARY CONST. PERMIT IN SQ.FT.	RIGHT OF ENTRY YES or NO
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NATHANAEL C. & WENDI M. SMALL	37-07-23-33-0008	3.950 AC	0.026 AC	1,135 SF	3.924 AC	0.016 AC	694 SF	YES

DRAWN: LDW	DESIGNER: LDW	CHECKED: JL	PROJ. ENG.: DFE
START SHEETS 6-11-15	REV DATE	REVISION	BY APP'D
REGION NO. 10	STATE WASH	FEDERAL AID NO. BRS-K364(005)	EXPIRATION DATE 3/24/12
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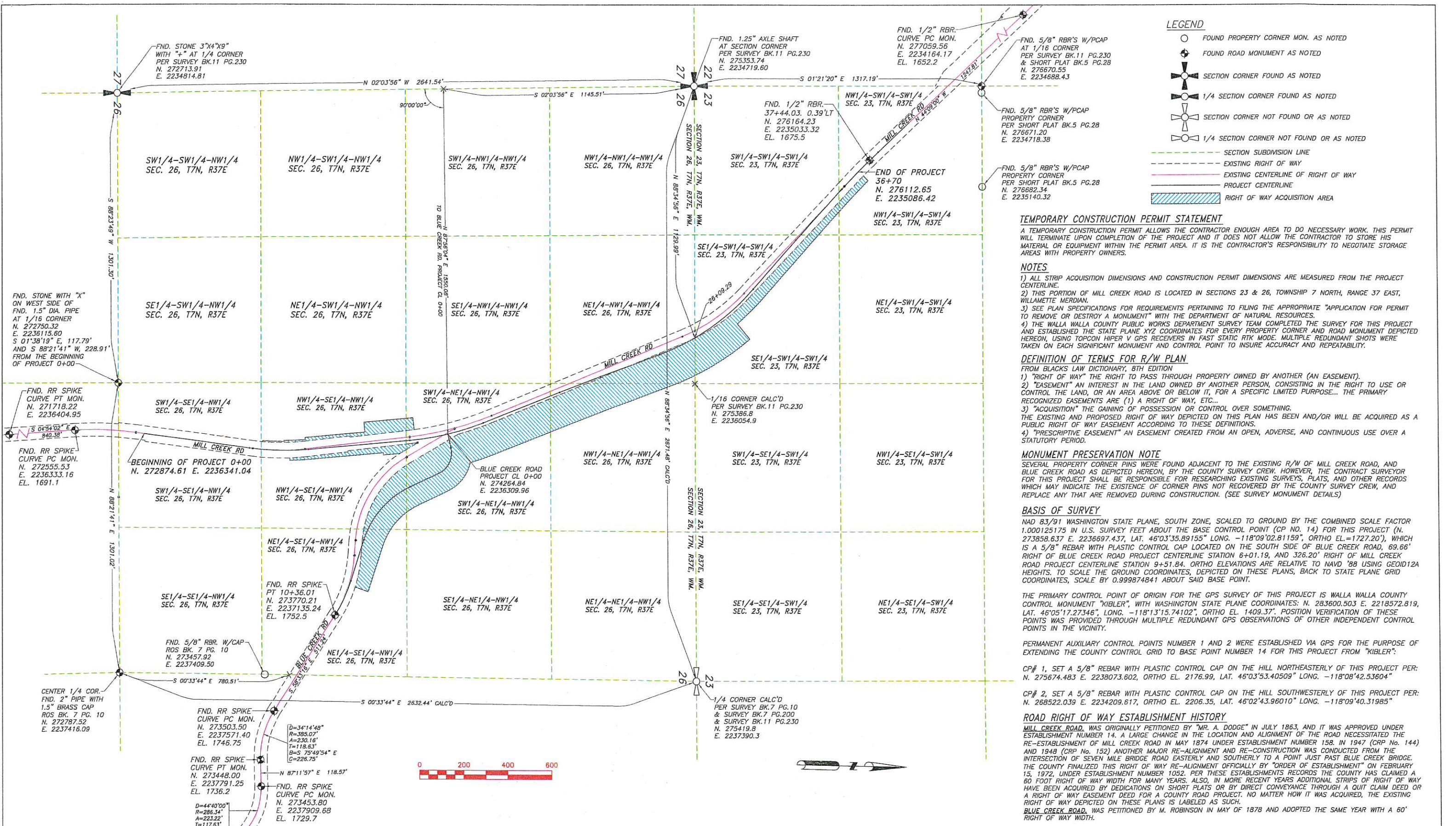
BLUE CREEK BRIDGE PROJECT
 RIGHT OF WAY PLAN

SHEET 4 OF 5 SHEETS

LEGEND

- X CALCULATED POINT
- SET BRASS CAP SURFACE MONUMENT
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LEGEND

- FOUND PROPERTY CORNER MON. AS NOTED
- ⊕ FOUND ROAD MONUMENT AS NOTED
- ⊕ SECTION CORNER FOUND AS NOTED
- ⊕ 1/4 SECTION CORNER FOUND AS NOTED
- ⊕ SECTION CORNER NOT FOUND OR AS NOTED
- ⊕ 1/4 SECTION CORNER NOT FOUND OR AS NOTED
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BASIS OF SURVEY
 NAD 83/91 WASHINGTON STATE PLANE, SOUTH ZONE, SCALED TO GROUND BY THE COMBINED SCALE FACTOR 1.000125175 IN U.S. SURVEY FEET ABOUT THE BASE CONTROL POINT (CP NO. 14) FOR THIS PROJECT (N. 273858.637 E. 2236697.437, LAT. 46°03'35.89155" LONG. -118°09'02.81159", ORTHO EL.=1727.20"), WHICH IS A 5/8" REBAR WITH PLASTIC CONTROL CAP LOCATED ON THE SOUTH SIDE OF BLUE CREEK ROAD, 69.66' RIGHT OF BLUE CREEK ROAD PROJECT CENTERLINE STATION 6+01.19, AND 326.20' RIGHT OF MILL CREEK ROAD PROJECT CENTERLINE STATION 9+51.84. ORTHO ELEVATIONS ARE RELATIVE TO NAVD '88 USING GEOID12A HEIGHTS. TO SCALE THE GROUND COORDINATES, DEPICTED ON THESE PLANS, BACK TO STATE PLANE GRID COORDINATES, SCALE BY 0.999874841 ABOUT SAID BASE POINT.

THE PRIMARY CONTROL POINT OF ORIGIN FOR THE GPS SURVEY OF THIS PROJECT IS WALLA WALLA COUNTY CONTROL MONUMENT "KIBLER", WITH WASHINGTON STATE PLANE COORDINATES: N. 283600.503 E. 2218572.819, LAT. 46°05'17.27346", LONG. -118°13'15.74102", ORTHO EL. 1409.37". POSITION VERIFICATION OF THESE POINTS WAS PROVIDED THROUGH MULTIPLE REDUNDANT GPS OBSERVATIONS OF OTHER INDEPENDENT CONTROL POINTS IN THE VICINITY.

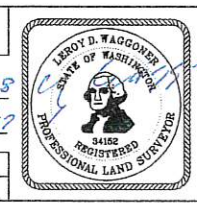
PERMANENT AUXILIARY CONTROL POINTS NUMBER 1 AND 2 WERE ESTABLISHED VIA GPS FOR THE PURPOSE OF EXTENDING THE COUNTY CONTROL GRID TO BASE POINT NUMBER 14 FOR THIS PROJECT FROM "KIBLER":

CP# 1, SET A 5/8" REBAR WITH PLASTIC CONTROL CAP ON THE HILL NORTHEASTERLY OF THIS PROJECT PER: N. 275674.483 E. 2238073.602, ORTHO EL. 2176.99, LAT. 46°03'53.40509" LONG. -118°08'42.53604"

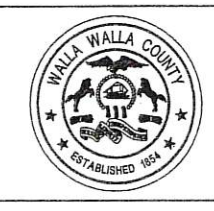
CP# 2, SET A 5/8" REBAR WITH PLASTIC CONTROL CAP ON THE HILL SOUTHWESTERLY OF THIS PROJECT PER: N. 268522.039 E. 2234209.617, ORTHO EL. 2206.35, LAT. 46°02'43.96010" LONG. -118°09'40.31985"

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BLUE CREEK BRIDGE PROJECT
RIGHT OF WAY PLAN