

DESIGN DATA

DESIGN: 17th EDITION AASHTO AND CURRENT AWS SPECIFICATIONS LOAD FACTOR DESIGN
 LOADING: HS20-44 + 20 PSF F.W.S.
 REINFORCING STEEL: (GR. 60) F_y = 60,000 PSI

CLASS "A" CONCRETE F'_c = 3,000 PSI
 CLASS "AA" CONCRETE F'_c = 4,000 PSI

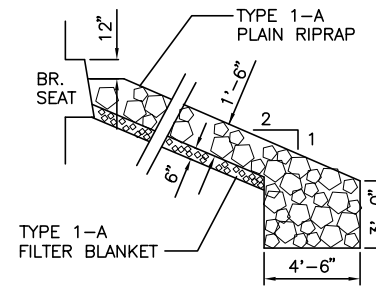
OPERATING RATING: HS 60

MAXIMUM FOUNDATION LOADS:
 ABUTMENTS = 42 TONS/PILE

PILE CAPACITY:
 THE REQUIRED ULTIMATE CAPACITY FOR EACH HP12x53 PILE IS 84 TONS

HYDRAULIC DATA

D.A.	= 12.46 SQ. MI.
Q2	= 1150 CFS
V2	= 4.43 FPS
Q2 CHW	= 808.77 FT.
Q5	= 2390 CFS
V5	= 5.46 FPS
Q5 CHW	= 811.93 FT.
Q10	= 3460 CFS
V10	= 6.07 FPS
Q10 CHW	= 813.95 FT.
Q25	= 5140 CFS
V25	= 6.81 FPS
Q25 CHW	= 816.44 FT.
Q50	= 6650 CFS
V50	= 7.34 FPS
Q50 CHW	= 818.29 FT.
Q100	= 8320 CFS
V100	= 7.94 FPS
Q100 CHW	= 819.99 FT.
QOT=Q500	= 13070 CFS
VO.T.	= 10.09 FPS
O.T. ELEV.	= 825.12 FT.

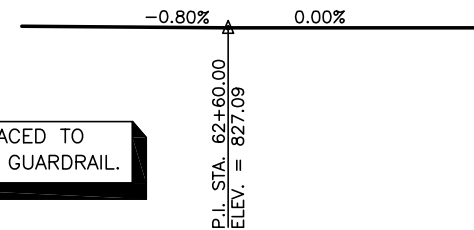


PROVIDE 3/4" MIN. OPEN GAP BETWEEN THE DECK AND WING AND BETWEEN TRAFFIC RAILS ON THE DECK AND WING, (TYP. EA. WING, ABUT. 2 ONLY) ▲

CONTRACTOR TO PROVIDE HOLES FOR THE CONNECTION OF GUARDRAIL ALL FOUR CORNERS. SEE STD. TR1-2

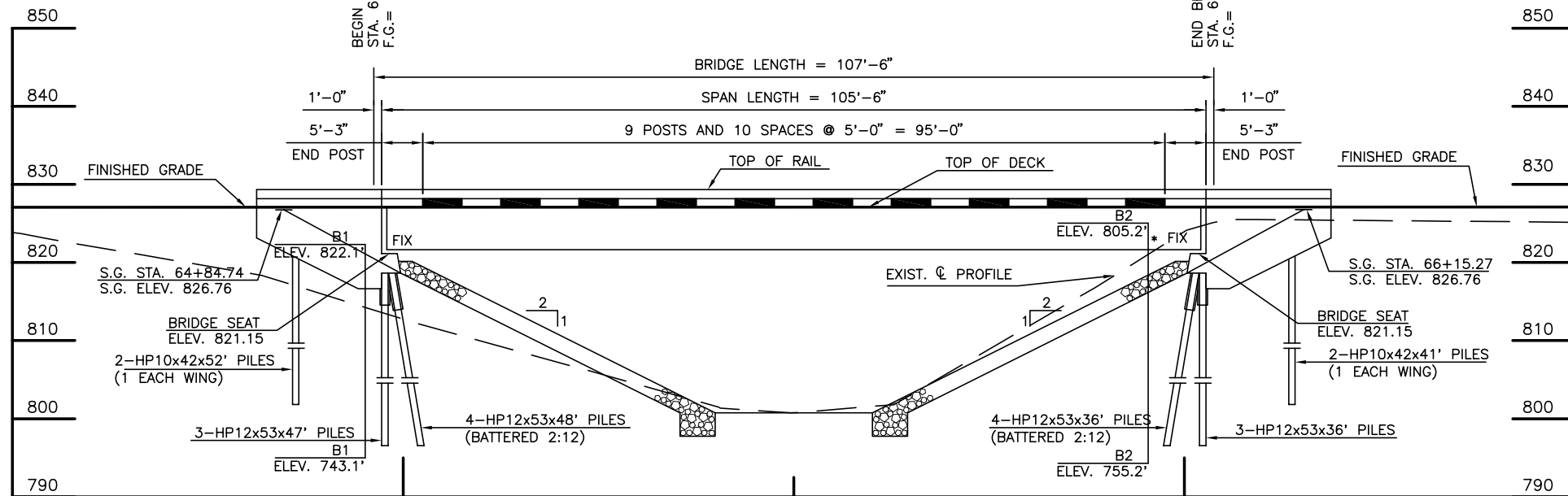
▲ USE SILICONE SEALER WITH 7/8" BACKER ROD IN 3/4" OPEN GAP, SEE STD. LECS-4-1. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

RIPRAP TO BE PLACED TO SECOND POST OF GUARDRAIL.



PROFILE GRADE DATA

BM-60d NAIL IN 12" OAK STA. 57+08.72, 21.68' LT. ELEV. = 833.33
 BEGIN BRIDGE STA. 64+96.25 F.C. = 827.09
 BM-60d NAIL IN 36" OAK STA. 64+37.42, 45.68' RT. ELEV. = 827.51
 BM-60d NAIL IN 24" OAK TREE STA. 68+54.76, 132.72' LT. ELEV. = 828.40
 END BRIDGE STA. 66+03.75 F.C. = 827.09



ELEVATION
 SCALE 1"=10'

* USE SLOTTED ANCHOR PLATES

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNITS	ABUTS.	SUPSTR.	TOTAL
501(B)	1307 SUBSTRUCTURE EXCAVATION COMMON	C.Y.	84.00		84.00
501(D)	6353 UNCLASSIFIED BACKFILL	C.Y.	82.00		82.00
503(A)	1313 PRESTRESSED CONCRETE BEAMS. (TYPE IV)	L.F.		416.67	416.67
504(D)	6239 CONCRETE RAIL (TR3)	L.F.	64.00	211.00	275.00
506(A)	1322 STRUCTURAL STEEL	LB.		1,810.00	1,810.00
507(A)	6172 WEATHERING STEEL FIXED BEARING ASSEMBLY	EA.		4.00	4.00
507(B)	6176 WEATHERING STEEL EXPANSION BEARING ASSEMBLY	EA.		4.00	4.00
509(A)	1326 CLASS "AA" CONC.	C.Y.		80.60	80.60
509(B)	1328 CLASS "A" CONC.	C.Y.	53.80		53.80
511(A)	1332 REINFORCING STEEL (1)	LB.	8,550.00	17,860.00	26,410.00
514(A)	6010 PILES, FURNISHED (HP 10x42)	L.F.	186.00		186.00
514(A)	6011 PILES, FURNISHED (HP 12x53)	L.F.	585.00		585.00
514(B)	6292 PILES DRIVEN (HP 10x42)	L.F.	186.00		186.00
514(B)	6294 PILES DRIVEN (HP 12x53)	L.F.	585.00		585.00
601(B)	1353 TYPE 1-A PLAIN RIPRAP	TON	950.00		950.00
601(C)	1355 TYPE 1-A FILTER BLANKET	TON	260.00		260.00
619(D)	1397 REMOVAL OF EXISTING BRIDGE STRUCTURE	L.SUM			1.00

(1) INCLUDES 1620 LBS. IN SUPSTR. AND 864 LBS. IN ABUTMENTS FOR "SR" BARS IN CONC. RAIL INCLUDES 82 LBS. IN ABUTMENT FOR "B2" BARS

1-105' P.C. BEAM SPAN, 0° SKEW, 26'-3" CLR. RDWY. W/1'-1" CONCRETE TRAFFIC RAIL (TR3-2)

SEE SHEETS NO. 11-12 FOR BORING LOGS

CREEK COUNTY DOG CREEK

GENERAL PLAN & ELEVATION