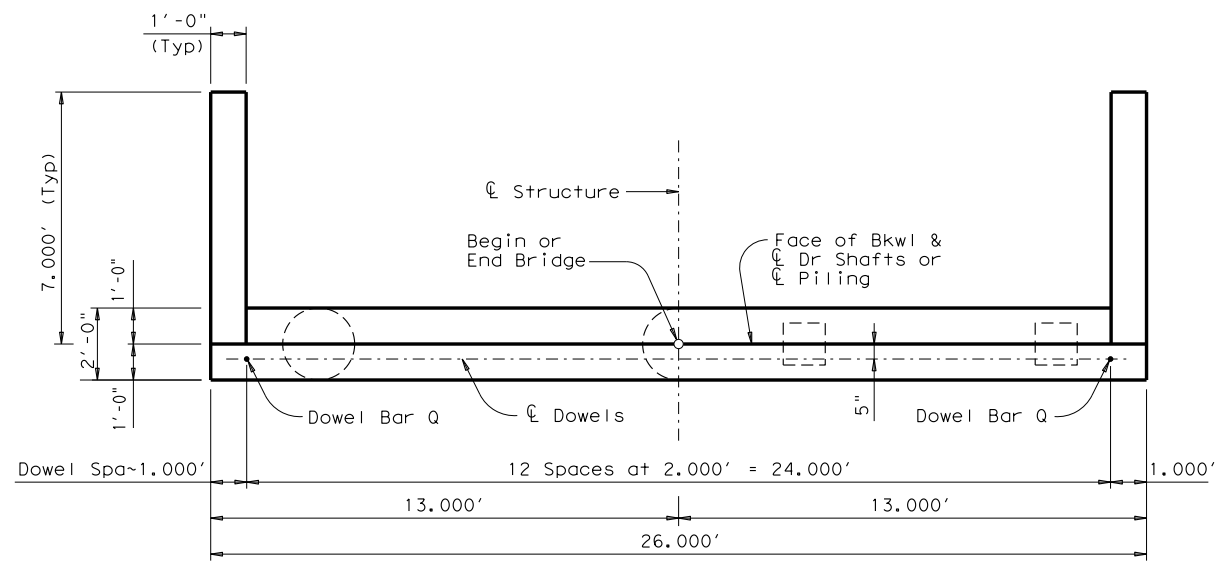
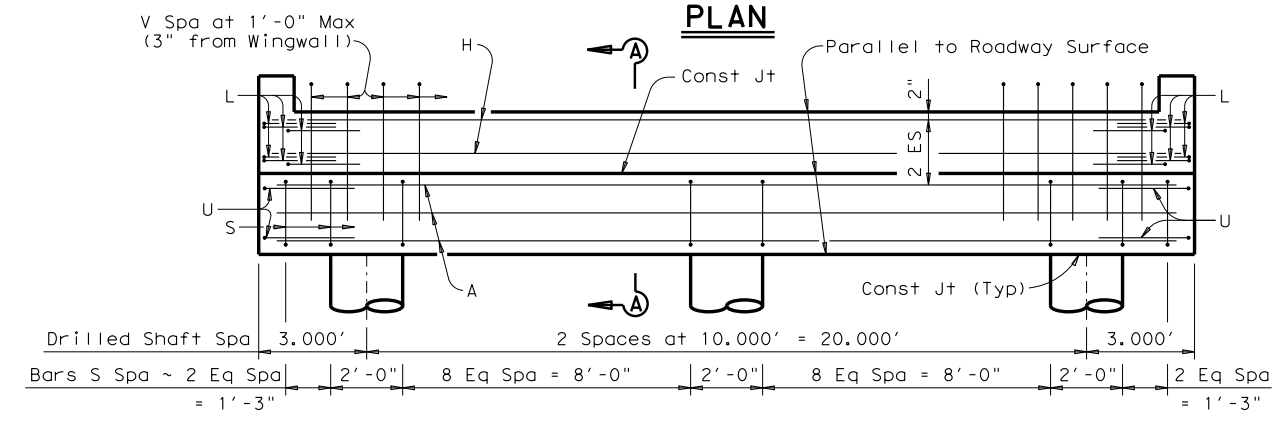


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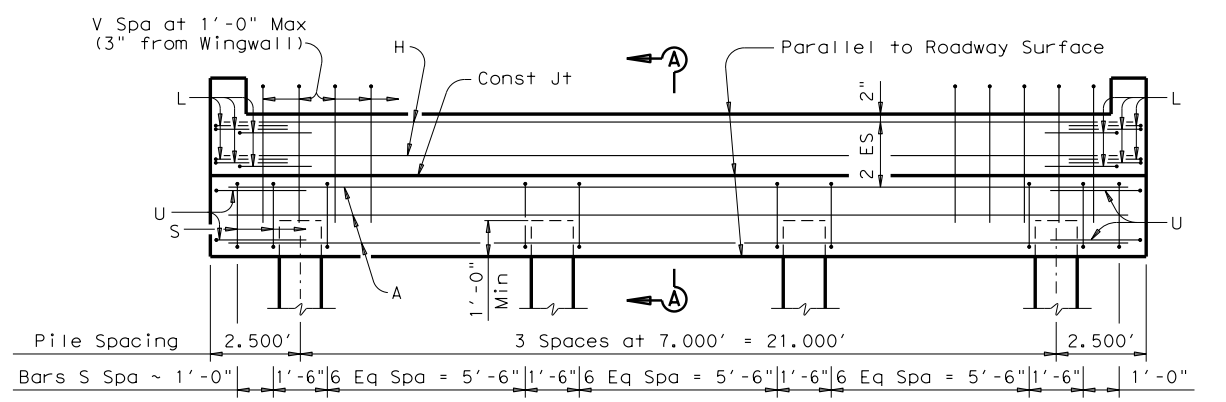
DATE: FILE:



SHOWING DRILLED SHAFTS      SHOWING PILES

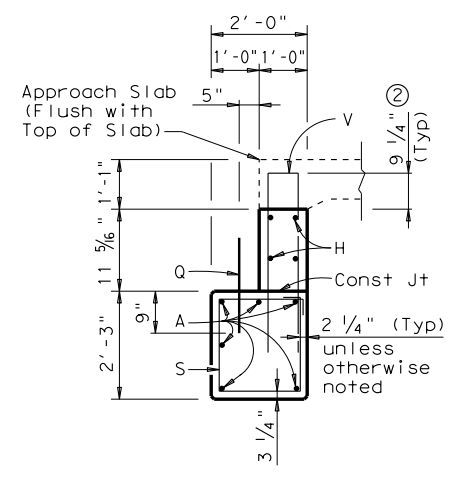
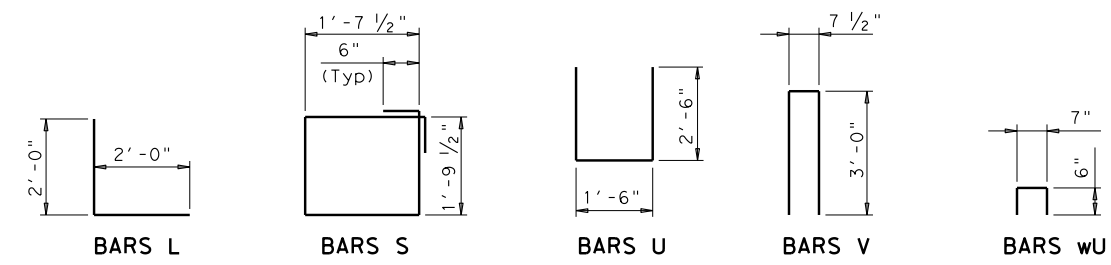


ELEVATION ~ DRILLED SHAFT ABUTMENT

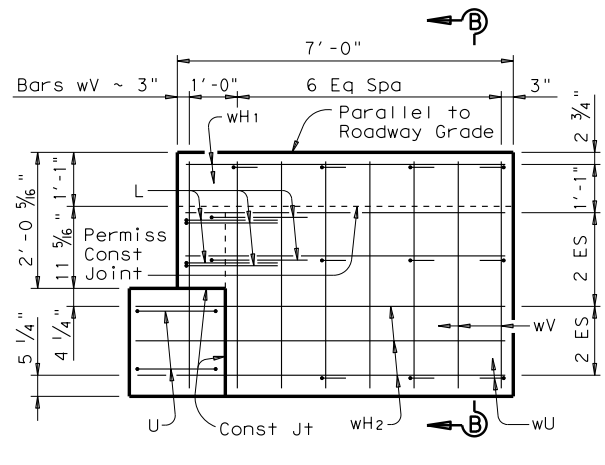


ELEVATION ~ PILING ABUTMENT

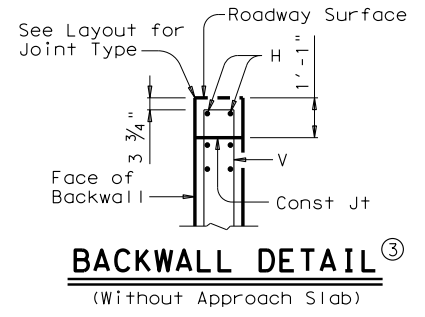
Note: For piling larger than 16", adjust Bars S and/or strip back piling as required to clear cap reinforcing.



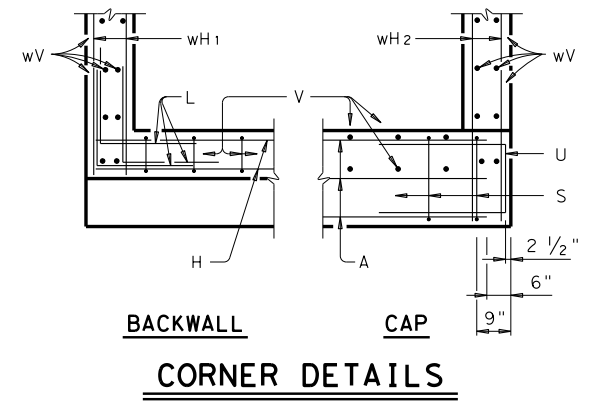
SECTION A-A (With Approach Slab)



WINGWALL ELEVATION



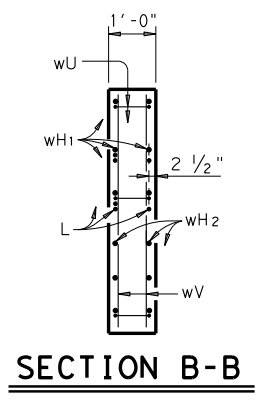
BACKWALL DETAIL (Without Approach Slab)



CORNER DETAILS

TABLE OF ESTIMATED QUANTITIES ①											
DRILLED SHAFT ABUT					PILING ABUTMENT						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	6	#11	25'-0"	797	A	6	#11	25'-0"	797		
H	4	#5	25'-8"	107	H	4	#5	25'-8"	107		
L	12	#6	4'-0"	72	L	12	#6	4'-0"	72		
Q	13	#6	1'-6"	29	Q	13	#6	1'-6"	29		
S	24	#5	7'-10"	196	S	25	#5	7'-10"	204		
U	4	#6	6'-6"	39	U	4	#6	6'-6"	39		
V	25	#5	6'-8"	174	V	25	#5	6'-8"	174		
wH1	12	#6	6'-8"	120	wH1	12	#6	6'-8"	120		
wH2	12	#6	7'-8"	138	wH2	12	#6	7'-8"	138		
wU	20	#4	1'-7"	21	wU	20	#4	1'-7"	21		
wV	32	#5	3'-11"	131	wV	32	#5	3'-11"	131		
Reinforcing Steel				Lb	1,824	Reinforcing Steel				Lb	1,832
Class "C" Concrete				CY	7.3	Class "C" Concrete				CY	7.3

- ① Quantities shown are for one Abutment only (with Approach Slab). With no Approach Slab, add 1.0 CY Class "C" concrete and 54 Lbs Reinforcing Steel for 2 additional H Bars.
- ② Increase as required to maintain 3 3/4" from Finished Grade.
- ③ See Layout to determine if Approach Slab is present.



SECTION B-B

**GENERAL NOTES:**  
 Designed according to AASHTO LRFD Specifications. All cap and wall reinforcing shall be Grade 60. Concrete strength f'c = 3,600 psi. Designed for normal embankment header slope of 3:1. See Layout for foundation type, size and length. See standard FD for foundation details and notes. See standard CRR for riprap attachment details, if applicable. See rail details for rail anchorage cast in wingwalls. Calculated Foundation Loads: 38 Tons/Drilled Shaft 28 Tons/Pile

HL93 LOADING

**Texas Department of Transportation** Bridge Division Standard

**ABUT FOR 30'-4" CONC SLAB AND GIRDER SPANS**

**24 FT ROADWAY**

**ACG-30-24**

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