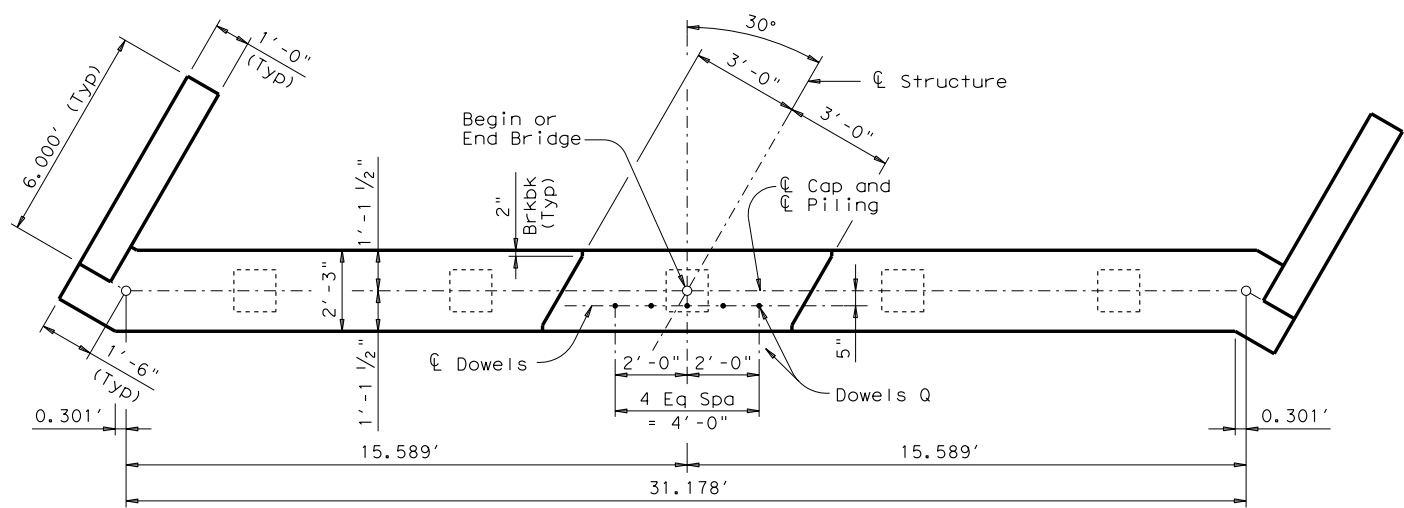
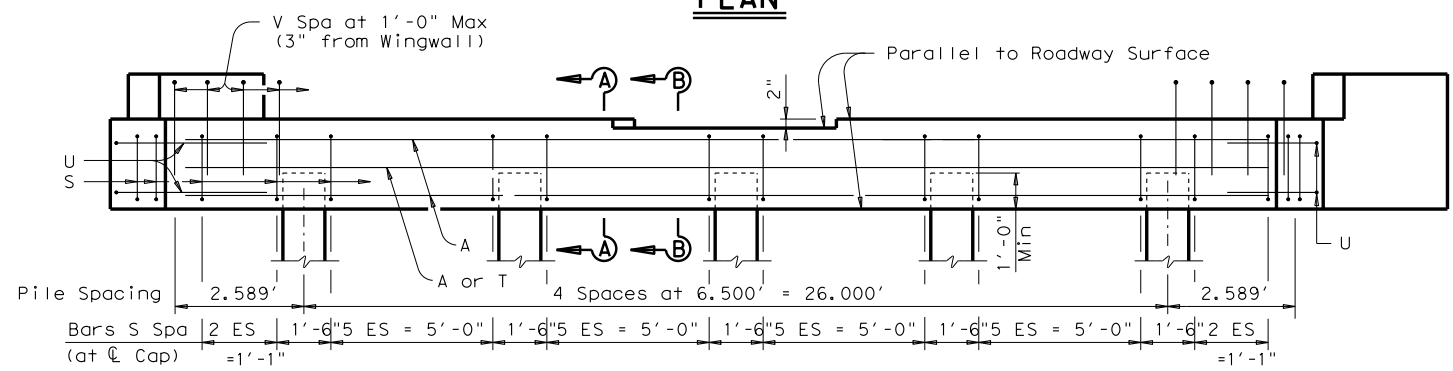


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DATE: FILE:

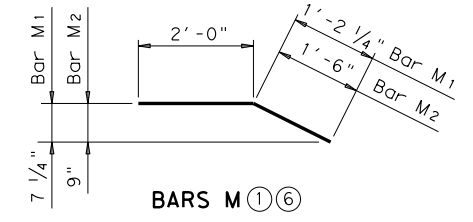


PLAN

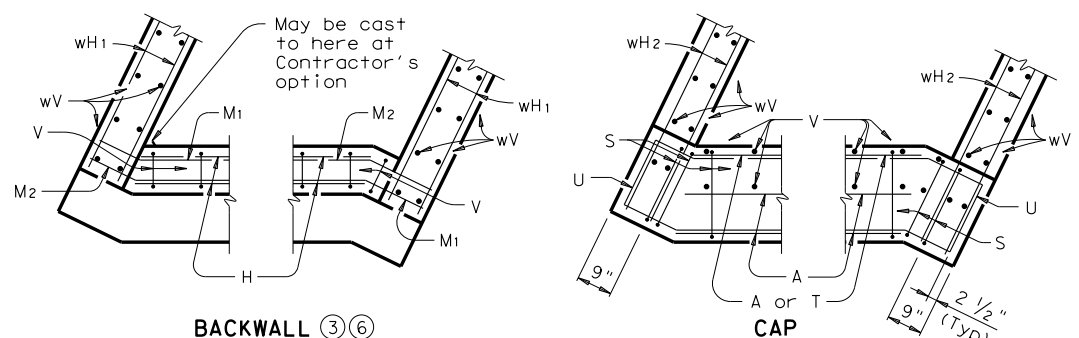


ELEVATION ~ PILING ABUTMENT

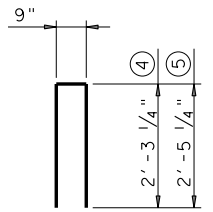
Note: For piling larger than 16", adjust Bars S and/or strip back piling as required to clear cap reinforcing.



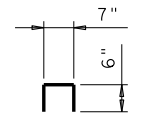
BARS M ①⑥



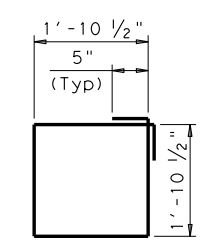
CORNER DETAILS



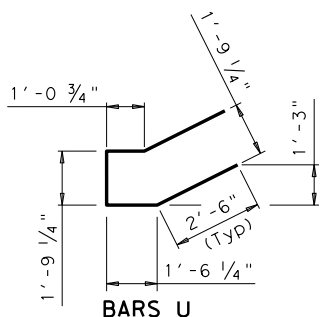
BARS V



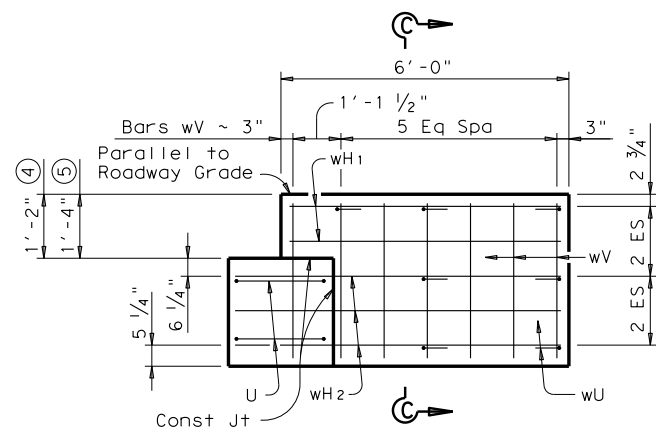
BARS wU



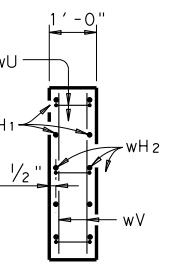
BARS S



BARS U

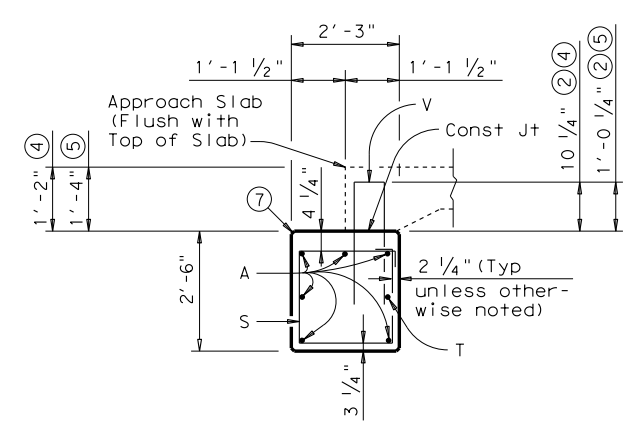


WINGWALL ELEVATION

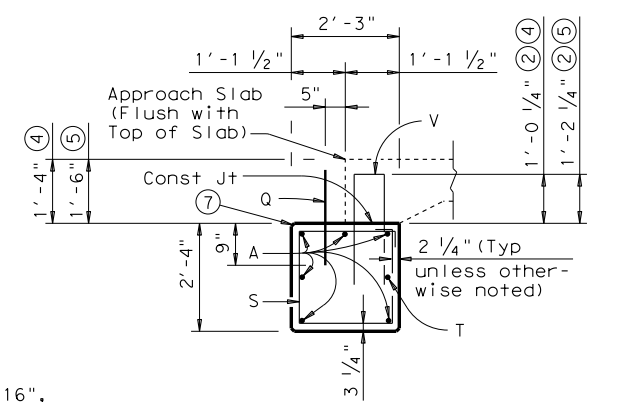


SECTION C-C

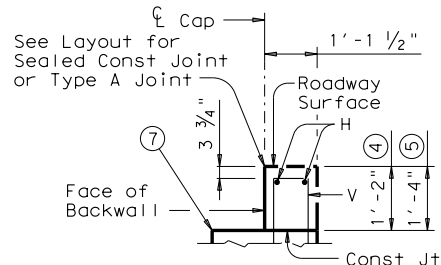
ORIENTATION OF STEEL H PILING



SECTION A-A ③
(With Approach Slab)



SECTION B-B ③
(With Approach Slab)



BACKWALL DETAIL ③
(Without Approach Slab)

TABLE OF ESTIMATED QUANTITIES ①											
14" SLAB					16" SLAB						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	6	#11	31'-2"	994	A	6	#11	31'-2"	994		
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11		
S	34	#4	8'-4"	189	S	34	#4	8'-4"	189		
T	1	#5	31'-2"	33	T	1	#5	31'-2"	33		
U	4	#6	9'-4"	56	U	4	#6	9'-4"	56		
V	33	#5	5'-4"	183	V	33	#5	5'-8"	195		
wH1	8	#6	5'-8"	68	wH1	8	#6	5'-8"	68		
wH2	12	#6	6'-10"	123	wH2	12	#6	6'-10"	123		
wU	14	#4	1'-7"	15	wU	14	#4	1'-7"	15		
wV	28	#5	3'-4"	97	wV	28	#5	3'-6"	102		
Reinforcing Steel				Lb	1,769	Reinforcing Steel				Lb	1,786
Class "C" Concrete				CY	8.4	Class "C" Concrete				CY	8.5

- ① Quantities shown are for one Abutment only (with Approach Slab). With no Approach Slab, add 79 Lbs Total Reinforcing Steel for the following:
 2 ~ #5 Bars H (31'-2")
 2 ~ #5 Bars M1 (3'-2")
 2 ~ #5 Bars M2 (3'-6")
 Add the following amounts for concrete:
 14" slab thickness add 1.6 CY Class "C" Concrete.
 16" slab thickness add 1.8 CY Class "C" Concrete.
- ② Increase as required to maintain 3 3/4" from Finished Grade.
- ③ See Layout to determine if Approach Slab is present.
- ④ Use with 14" slab thickness.
- ⑤ Use with 16" slab thickness.
- ⑥ Omit Bars H and M if Approach Slab is present.
- ⑦ See standard CS-MD for Preformed Bituminous Fiber Material.

GENERAL NOTES:
 Designed according to AASHTO LRFD Specifications. Details shown are for right forward skew. See layout for actual skew direction.
 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 size and length. See standard FD for foundation details and notes. See standard CS-MD for joint details and details not shown.
 Calculated Foundation Loads: 25 Tons/Pile. These abutment details may be used with standards CS-25-28, CS-50-28-30, CS-75-28-30 and CS-80-28-30 only.

HL93 LOADING

		Bridge Division Standard	
ABUTMENTS FOR C-I-P CONC SLAB SPANS (PILES)			
28 FT ROADWAY		30° SKEW	
ACSP-28-30			
FILE: acs08ste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
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REVISIONS			HIGHWAY
	DIST	COUNTY	SHEET NO.