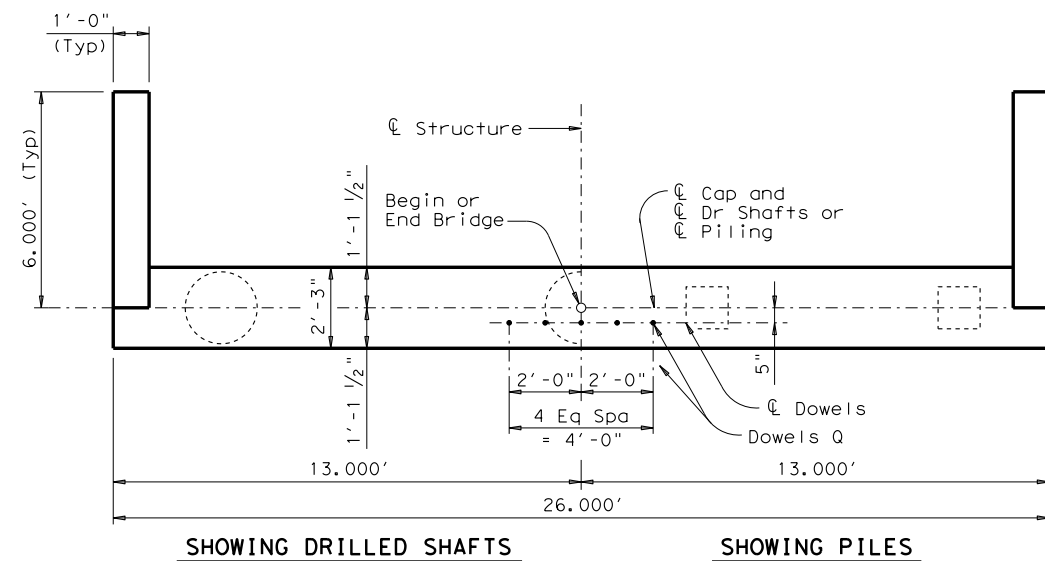
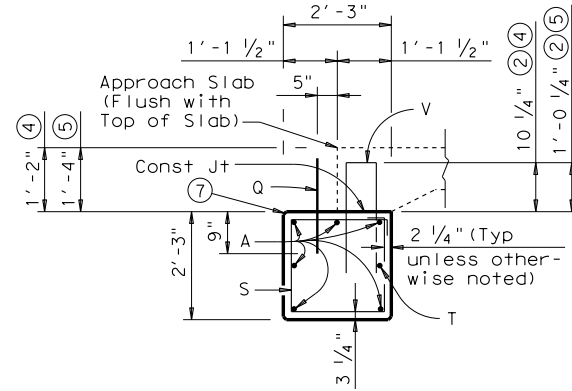


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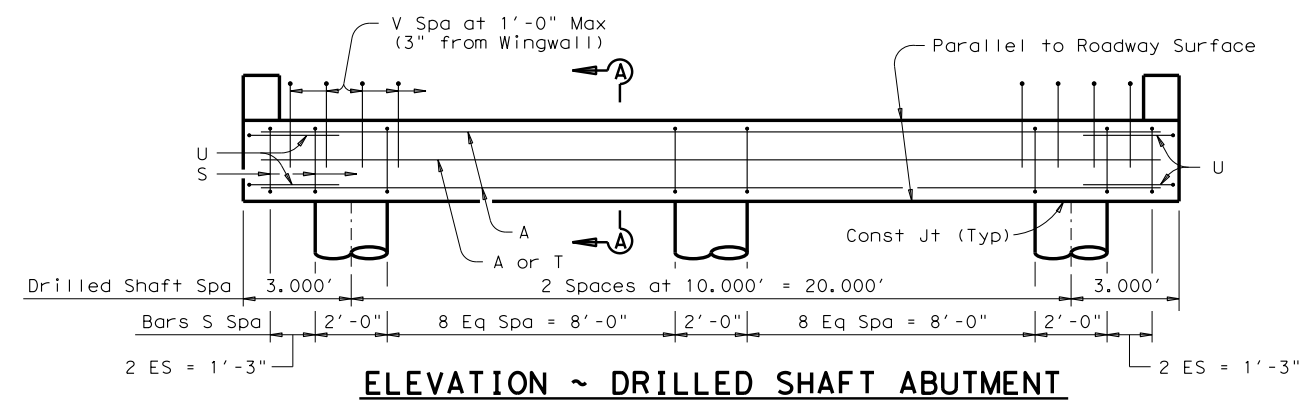
DATE: FILE:



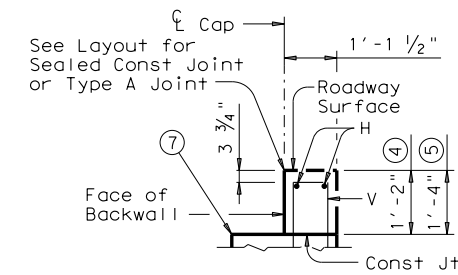
SHOWING DRILLED SHAFTS **PLAN** SHOWING PILES



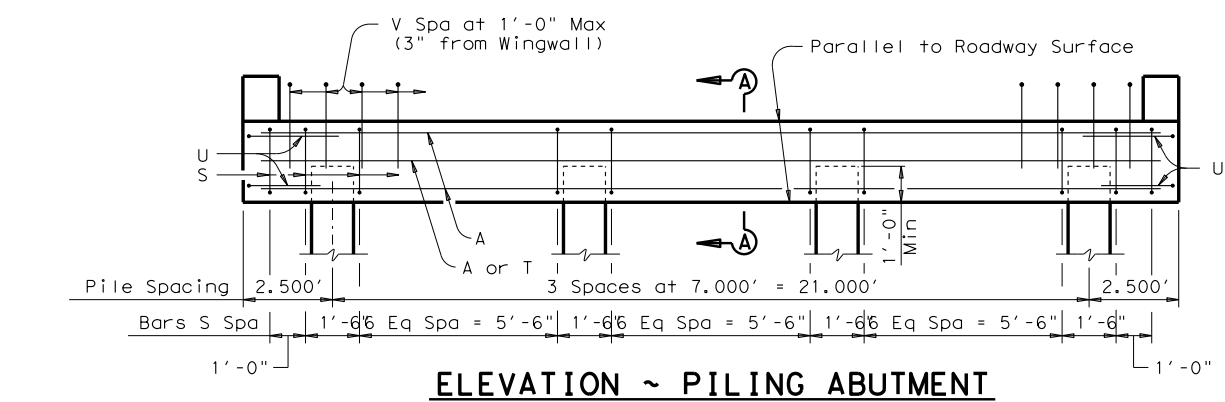
SECTION A-A
(With Approach Slab)



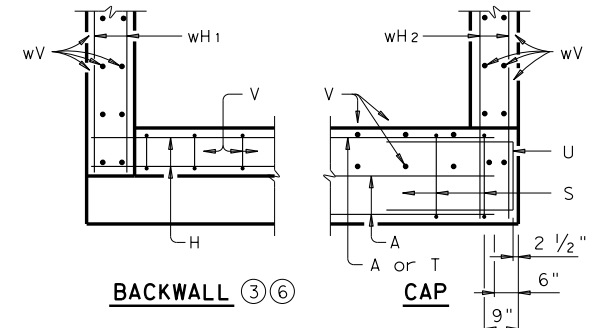
ELEVATION ~ DRILLED SHAFT ABUTMENT



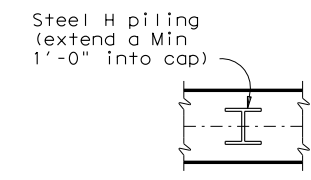
BACKWALL DETAIL
(Without Approach Slab)



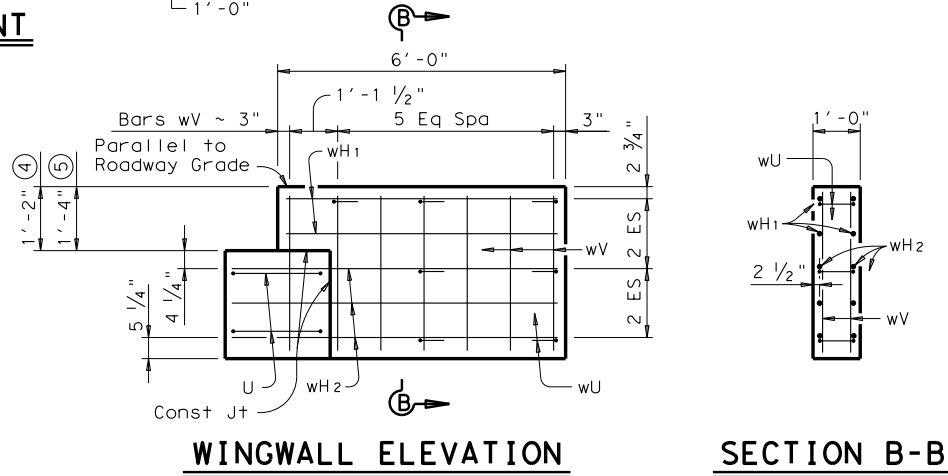
ELEVATION ~ PILING ABUTMENT



CORNER DETAILS

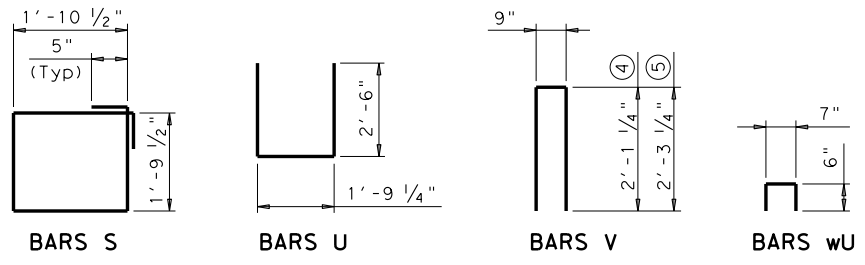


ORIENTATION OF STEEL H PILING



WINGWALL ELEVATION

SECTION B-B



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

14" SLAB ~ 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
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11
S	24	#4	8'-2"	131	S	25	#4	8'-2"	136
T	1	#5	25'-0"	26	T	1	#5	25'-0"	26
U	4	#6	6'-9"	41	U	4	#6	6'-9"	41
V	25	#5	5'-0"	130	V	25	#5	5'-0"	130
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'-1"	90	wV	28	#5	3'-1"	90
Reinforcing Steel				Lb 1,432	Reinforcing Steel				Lb 1,437
Class "C" Concrete				CY 6.2	Class "C" Concrete				CY 6.2

16" SLAB ~ 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
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11
S	24	#4	8'-2"	131	S	25	#4	8'-2"	136
T	1	#5	25'-0"	26	T	1	#5	25'-0"	26
U	4	#6	6'-9"	41	U	4	#6	6'-9"	41
V	25	#5	5'-4"	139	V	25	#5	5'-4"	139
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'-3"	95	wV	28	#5	3'-3"	95
Reinforcing Steel				Lb 1,446	Reinforcing Steel				Lb 1,451
Class "C" Concrete				CY 6.3	Class "C" Concrete				CY 6.3

- ① Quantities shown are for one Abutment only (with Approach Slab). With no Approach Slab, add 54 Lbs Reinforcing Steel for 2 ~ #5 Bars H (25'-8") and the following amounts of concrete:
14" slab thickness add 1.2 CY Class "C" Concrete.
16" slab thickness add 1.3 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 if Approach Slab is present.
- ⑦ See standard CS-MD for Preformed Bituminous Fiber Material.

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 CS-MD for joint details and details not shown. Calculated Foundation Loads: 35 Tons/Drilled Shaft 25 Tons/Pile. These abutment details may be used with standards CS-25-24, CS-50-24, CS-75-24 and CS-80-24 only.

HL93 LOADING

		Bridge Division Standard	
ABUTMENTS FOR C-I-P CONC SLAB SPANS			
24 FT ROADWAY			
ACS-24			
FILE: acs01ste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
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REVISIONS			HIGHWAY
	DIST	COUNTY	SHEET NO.