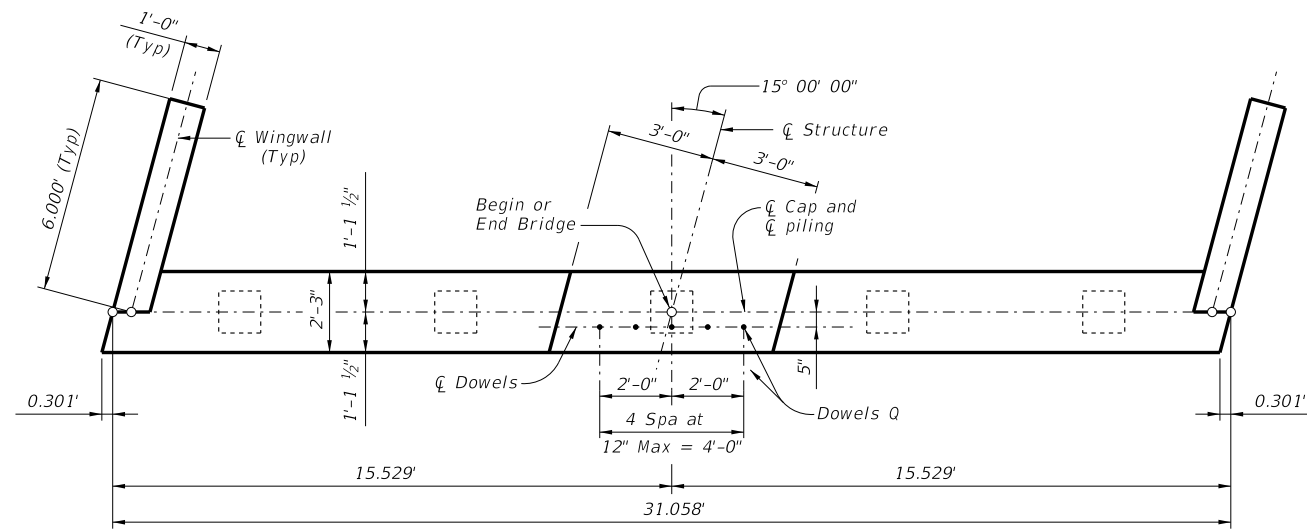
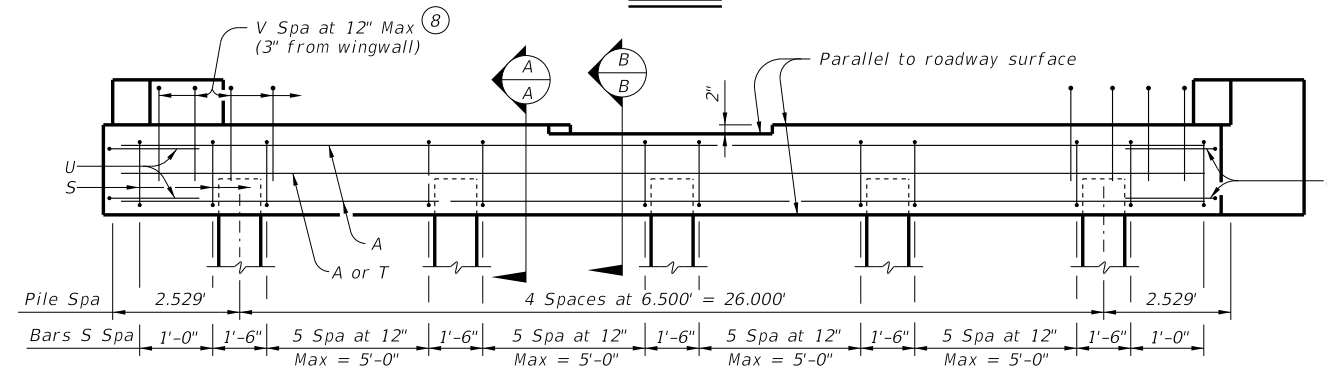


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DATE: FILE:

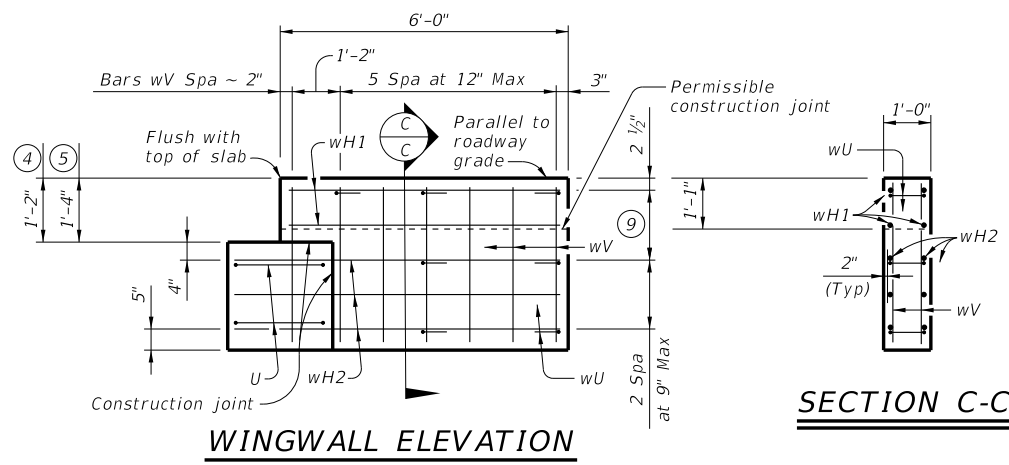


PLAN

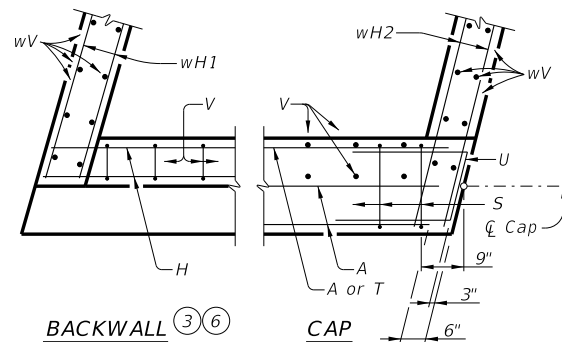


ELEVATION ~ PILING ABUTMENT

Note: For piling larger than 16', adjust Bars S as required to avoid piling.

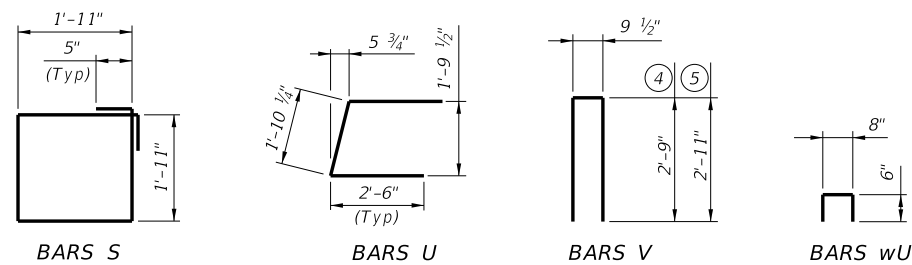


WINGWALL ELEVATION



BACKWALL (3)(6)
CAP

CORNER DETAILS

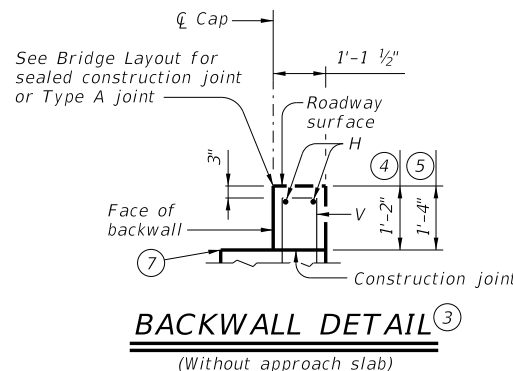


BAR S

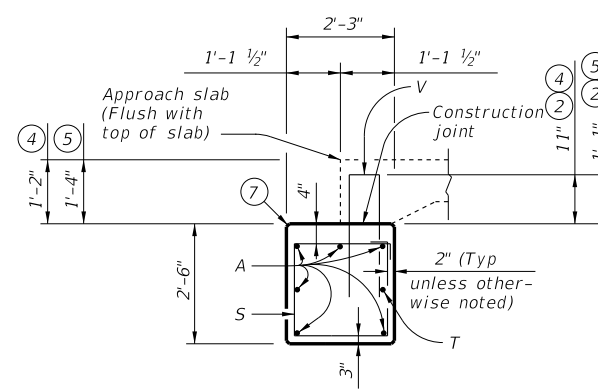
BAR U

BAR V

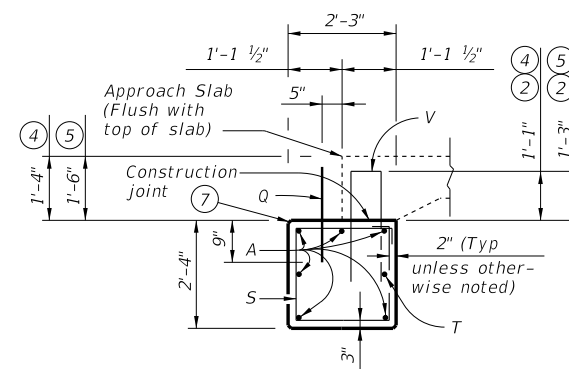
BAR wU



BACKWALL DETAIL (3)
(Without approach slab)



SECTION A-A (3)
(With approach slab)



SECTION B-B (3)
(With approach slab)

TABLE OF ESTIMATED QUANTITIES (1)

14" SLAB					16" SLAB						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	6	#11	30'-1"	959	A	6	#11	30'-1"	959		
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11		
S	28	#4	8'-6"	159	S	28	#4	8'-6"	159		
T	1	#5	30'-1"	31	T	1	#5	30'-1"	31		
U	4	#6	6'-10"	41	U	4	#6	6'-10"	41		
V	30	#5	6'-4"	198	V	30	#5	6'-8"	209		
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'-8"	16	wU	14	#4	1'-8"	16		
wV	28	#5	3'-4"	97	wV	28	#5	3'-6"	102		
Reinforcing Steel				Lb	1,703	Reinforcing Steel				Lb	1,719
CI "C" Conc (Abut)				CY	7.8	CI "C" Conc (Abut)				CY	7.9

- Quantities shown are for one abutment only (with approach slab). Without approach slab, add 64 Lbs reinforcing steel for 2 ~ #5 Bars H (30'-9") and the following amounts of concrete:
14" slab thickness add 1.4 CY Class "C" Concrete.
16" slab thickness add 1.6 CY Class "C" Concrete.
- Increase as required to maintain 3" from finished grade.
- See Bridge Layout to determine if approach slab is present.
- Use with 14" slab thickness.
- Use with 16" slab thickness.
- Omit Bars H if approach slab is present.
- See CS-MD standard for preformed bituminous fiber material.
- Field bend as needed to clear piles.
- Spacing based on slab depth
14" ~ 2 spaces at 8" Max.
16" ~ 2 spaces at 9" Max.

MATERIAL NOTES:

- Provide Class C concrete ($f'c = 3,600$ psi).
- Provide Class C (HPC) concrete if shown elsewhere in the plans.
- Provide Grade 60 reinforcing steel.

GENERAL NOTES:

- Designed according to AASHTO LRFD Bridge Design Specifications.
- Details shown are for right forward skew. See Bridge Layout for actual skew direction.
- Designed for normal embankment header slope of 3:1.
- See Bridge Layout for foundation type, size and length.
- See Common Foundation Details (FD) standard sheet for foundation details and notes.
- See Concrete Riprap (CRR) standard sheet or Stone Riprap (SRR) standard sheets for riprap attachment details, if applicable.
- See applicable rail details for anchorage in wingwalls.
- See Miscellaneous Details for C-I-P Concrete Slab Spans (CS-MD) standard sheet 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-50-28-15, S-75-28-15, and CS-80-28-15 only.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.

HL93 LOADING

		Bridge Division Standard	
ABUTMENTS FOR C-I-P CONC SLAB SPANS 28' ROADWAY 15° SKEW (PILES)			
ACSP-28-15			
FILE: CS-ACS2815P-21.dgn	DN: HTP	CK: SDC	DW: LJC
©TxDOT July 2021	CONT	SECT	JOB
REVISIONS		HIGHWAY	
DIST		COUNTY	
		SHEET NO.	