DATE:
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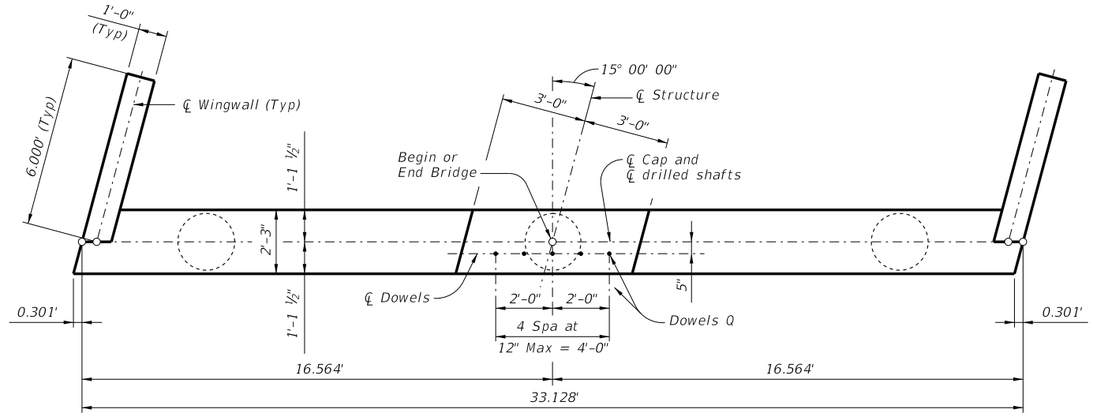
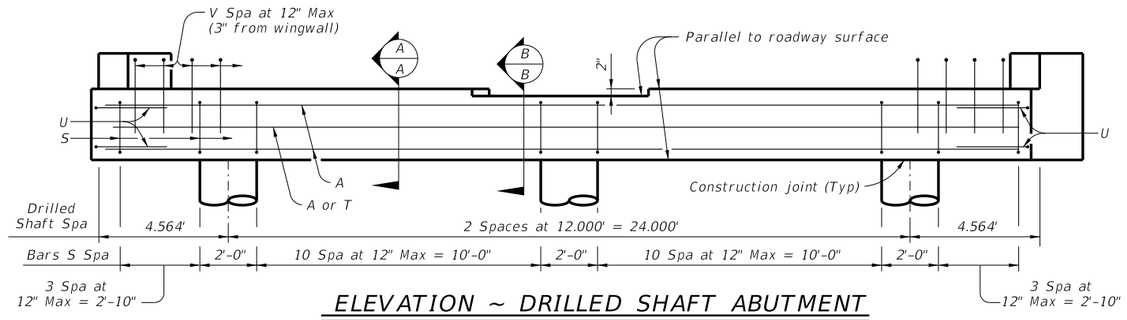
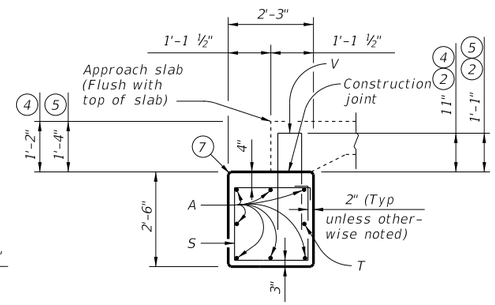


PLAN

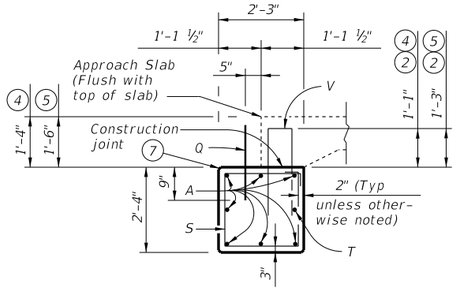


ELEVATION ~ DRILLED SHAFT ABUTMENT



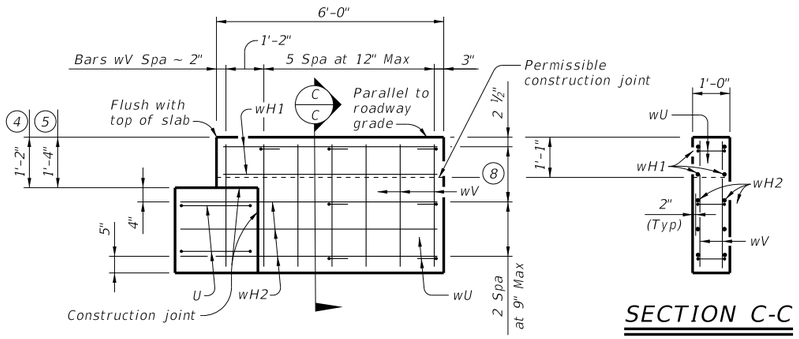
SECTION A-A (3)

(With approach slab)



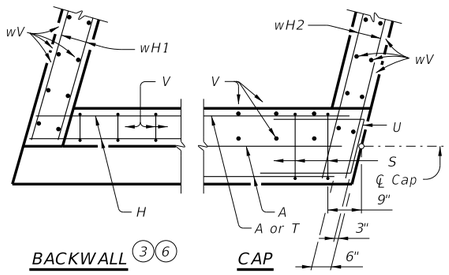
SECTION B-B (3)

(With approach slab)



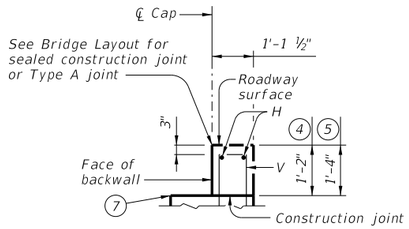
WINGWALL ELEVATION

SECTION C-C



BACKWALL (3) (6) CAP

CORNER DETAILS



BACKWALL DETAIL (3)

(Without approach slab)

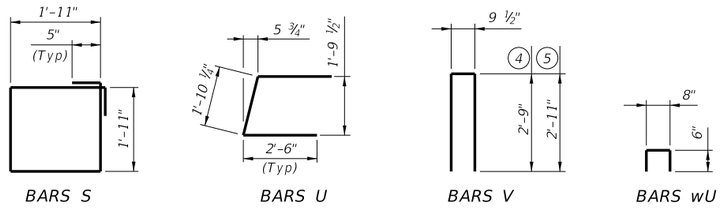


TABLE OF ESTIMATED QUANTITIES (1)

14" SLAB

Bar	No.	Size	Length	Weight
A	7	#11	32'-2"	1,196
Q	5	#6	1'-6"	11
S	30	#4	8'-6"	170
T	1	#5	32'-2"	34
U	4	#6	6'-10"	41
V	32	#5	6'-4"	211
wH1	8	#6	5'-8"	68
wH2	12	#6	6'-10"	123
wU	14	#4	1'-8"	16
wV	28	#5	3'-4"	97
Reinforcing Steel		Lb		1,967
Cl "C" Conc (Abut)		CY		8.2

16" SLAB

Bar	No.	Size	Length	Weight
A	7	#11	32'-2"	1,196
Q	5	#6	1'-6"	11
S	30	#4	8'-6"	170
T	1	#5	32'-2"	34
U	4	#6	6'-10"	41
V	32	#5	6'-8"	223
wH1	8	#6	5'-8"	68
wH2	12	#6	6'-10"	123
wU	14	#4	1'-8"	16
wV	28	#5	3'-6"	102
Reinforcing Steel		Lb		1,984
Cl "C" Conc (Abut)		CY		8.3

(1) Quantities shown are for one abutment only (with approach slab). Without approach slab, add 68 Lbs reinforcing steel for 2 ~ #5 Bars H (32'-10") and the following amounts of concrete:
14" slab thickness add 1.5 CY Class "C" Concrete.
16" slab thickness add 1.7 CY Class "C" Concrete.

(2) Increase as required to maintain 3" from finished grade.

(3) See Bridge 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 CS-MD standard for preformed bituminous fiber material.

(8) 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 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: 40 Tons/drilled shaft.
These abutment details may be used with standards CS-25-30, CS-50-30-15, CS-75-30-15, and CS-80-30-15 only.

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

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

ABUTMENTS FOR C-I-P CONC SLAB SPANS (DRILLED SHAFTS)

30 FT ROADWAY 15° SKEW

ACSD-30-15

FILE: acs13ste-21.dgn	DN: HTP	CK: SDC	DW: LJC	CK: TAR
©TxDOT July 2021	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.