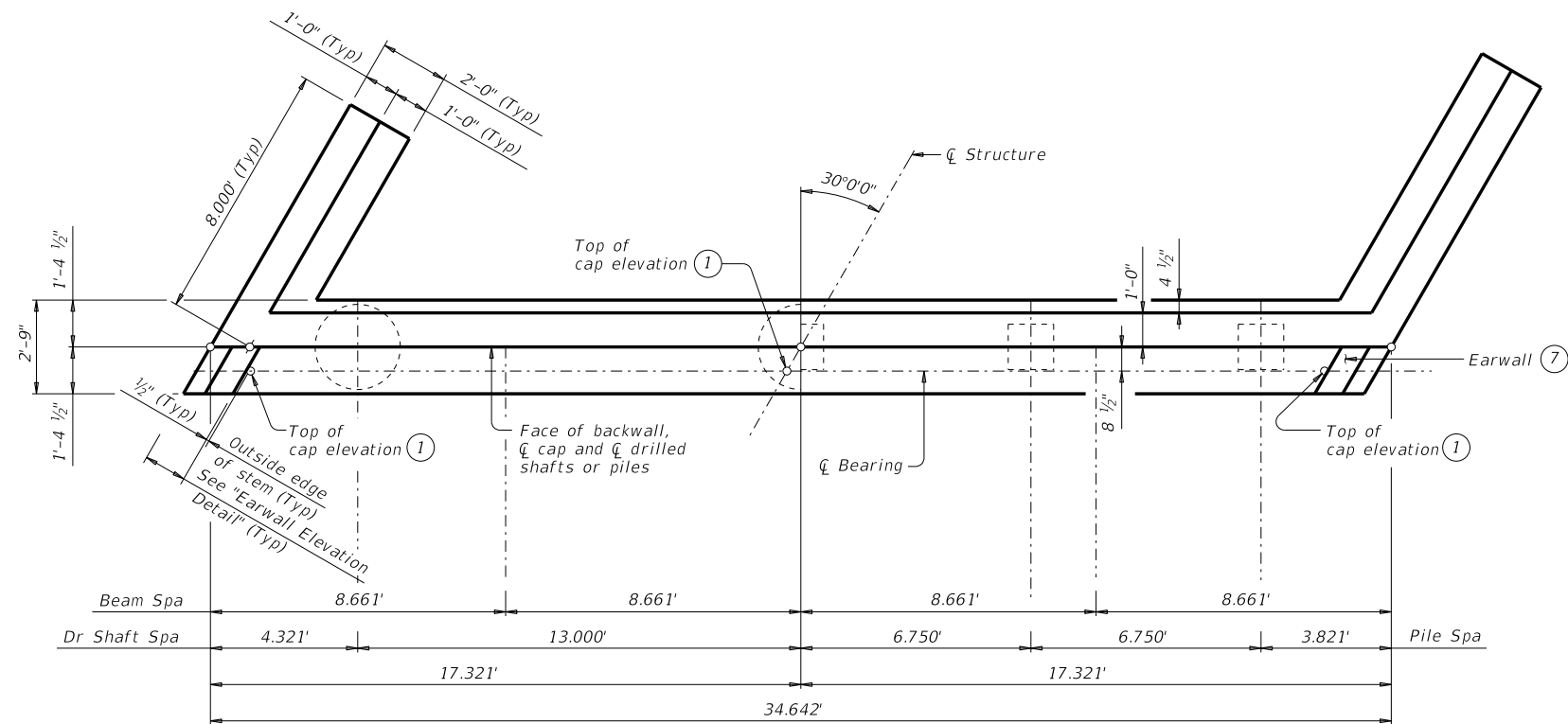


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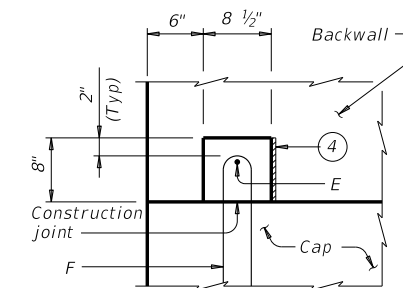
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SHOWING DRILLED SHAFTS

**PLAN**

SHOWING PILES



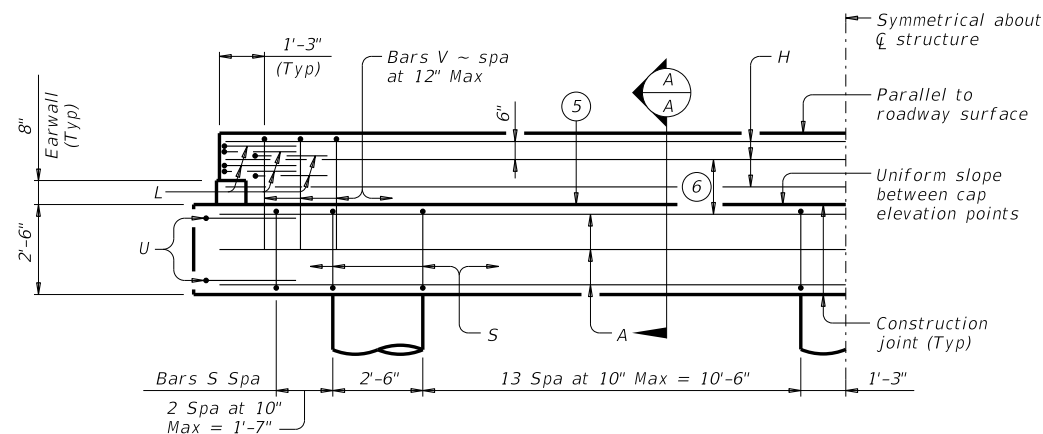
**EARWALL ELEVATION DETAIL**

(Slope top of earwall away from beams.)

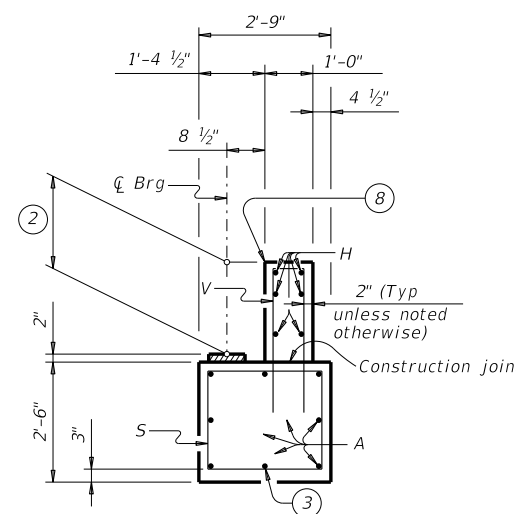
- ① Top of cap elevations are based on section depths shown on span details.
- ② 1'-8" for 7DS20 beams, 1'-11" for 7DS23 beams.
- ③ With pile foundations, replace Bar A, located at bottom centerline of cap with 4 ~ #11 x 5'-3" bars placed between piles. Deduct 67 Lbs from reinforcing steel total.
- ④ 1/2" preformed bituminous fiber material between beam stem and earwall. Bond to beam with an approved adhesive. Cast inside face of earwall with face of beam stem.
- ⑤ Surface finish top of cap with a textured, wood float. Level surface in the direction of the centerline of beams. Provide bearings surface clean and free of all loose material before placing bearing pads.
- ⑥ 2 spaced at 12" Max.
- ⑦ Do not cast earwalls until beams are erected in their final position.
- ⑧ Top of backwall elevation is equal to top of beam elevation.

**TABLE OF FOUNDATION LOADS**

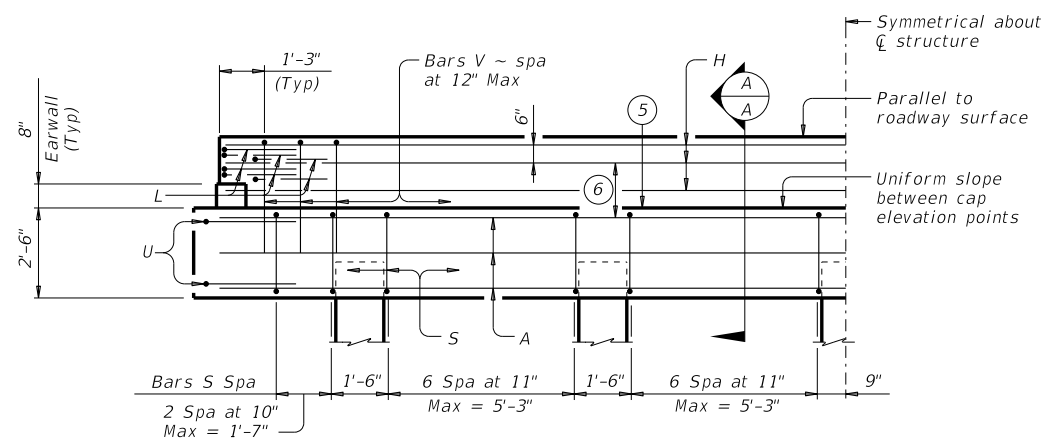
Average Span Length	Drilled Shaft Loads	Vertical Pile Loads
Ft	Tons/DS	Tons/Pile
30	48	29
35	52	31
40	56	34
45	60	36
50	64	39
55	68	41
60	72	43



**HALF ELEVATION ~ DRILLED SHAFT ABUTMENT**



**SECTION A-A**



**HALF ELEVATION ~ PILE ABUTMENT**

(Showing 16" piles ~ for piles larger than 16", adjust Bars S spacing as required to avoid piling.)

**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.
- Designed for normal embankment header slope of 3:1 or 2:1.
- See Bridge Layout for header slope, beam type, and foundation type, size and length.
- See Common Foundation Details (FD) standard sheet for all foundation details and notes.
- See Concrete Riprap (CRR) standard sheet or Stone Riprap (SRR) standard sheet for riprap attachment details, if applicable.
- See applicable rail details for rail anchorage in wingwalls.
- Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.
- This abutment does not accommodate an approach slab. These abutment details may be used with standard SDSB-28-30 only.

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

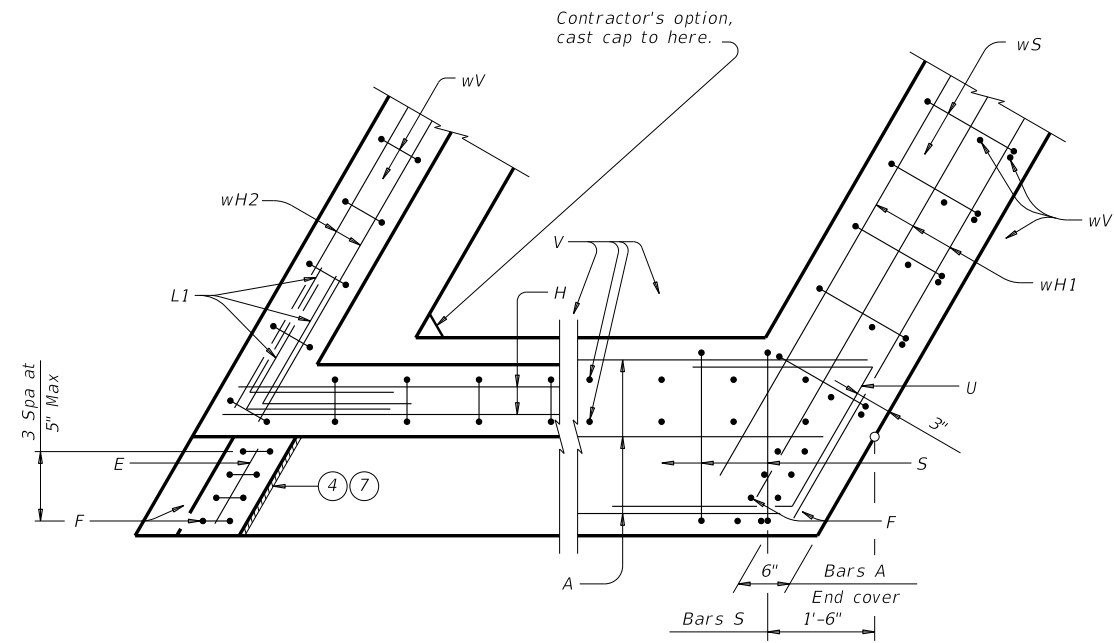
HL93 LOADING

SHEET 1 OF 2

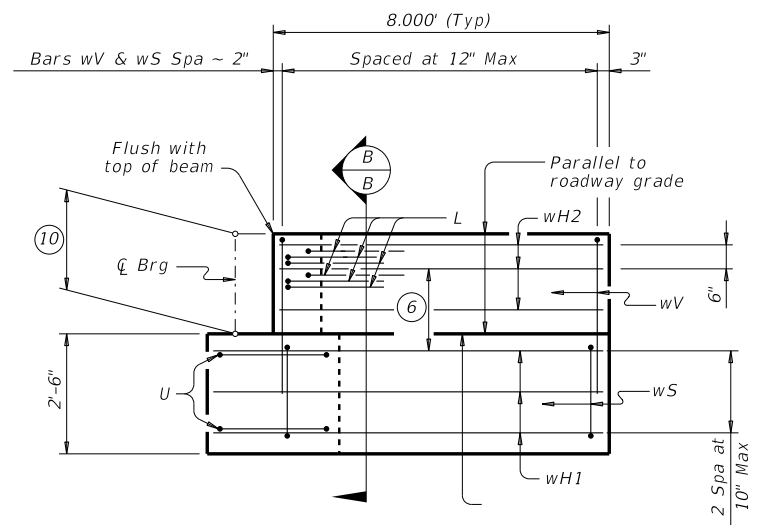


**ABUTMENTS  
PRESTRESSED CONCRETE  
DECKED SLAB BEAMS  
28' ROADWAY 30° SKEW  
ADSB-28-30**

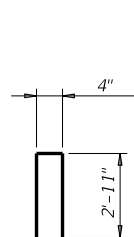
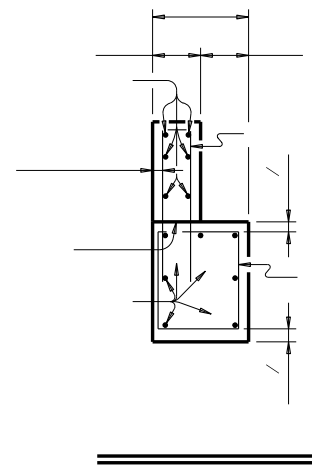
FILE: DSB-ADSB2830-20.dgn	DN: JLR	CK: SDC	DW: JTR	CK: TAR
©TxDOT August 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS				
DIST	COUNTY			SHEET NO.



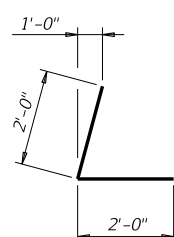
**BACKWALL CAP**  
**CORNER DETAILS**



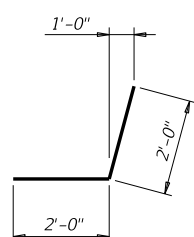
**WINGWALL ELEVATION**  
(Earwall omitted for clarity.)



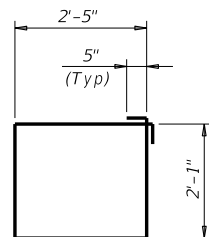
BARS F



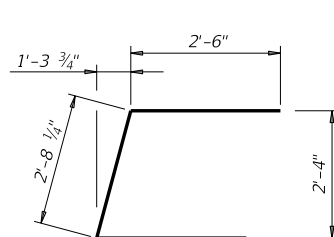
BARS L1



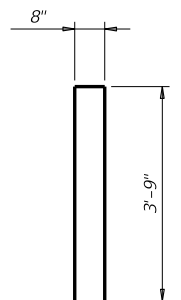
BARS L2



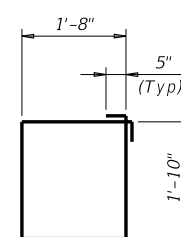
BARS S



BARS U



BARS V & wV



BARS wS

**TABLE OF ESTIMATED QUANTITIES (TYPE 7DS20 BEAMS)**

Bar	No.	Size	Length	Weight
A	8	#11	33'-8"	1,431
E	2	#5	1'-3"	3
F	8	#4	6'-2"	33
H	6	#6	34'-4"	309
L1	6	#6	4'-0"	36
L2	6	#6	4'-0"	36
S	34	#4	9'-10"	223
U	4	#6	7'-8"	46
V	34	#5	8'-2"	290
wH1	14	#		

- ③ With pile foundations, replace Bar A, located at bottom centerline of cap with 4 ~ #11 x 5'-3" bars placed between piles. Deduct 67 Lbs from reinforcing steel total.
- ④ 1/2" preformed bituminous fiber material between beam stem and earwall. Bond to beam with an approved adhesive. Cast inside face of earwall with face of beam stem.
- ⑥ 2 spaces at 12" Max.
- ⑦ Do not cast earwalls until beams are erected in their final position.
- ⑨ Quantities shown are for one abutment only.
- ⑩ 1'-10" for 7DS20 beams, 2'-1" for 7DS23 beams.

FILE:	DN: JLR	CK: SDC	DW: JTR	CK: TAR
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