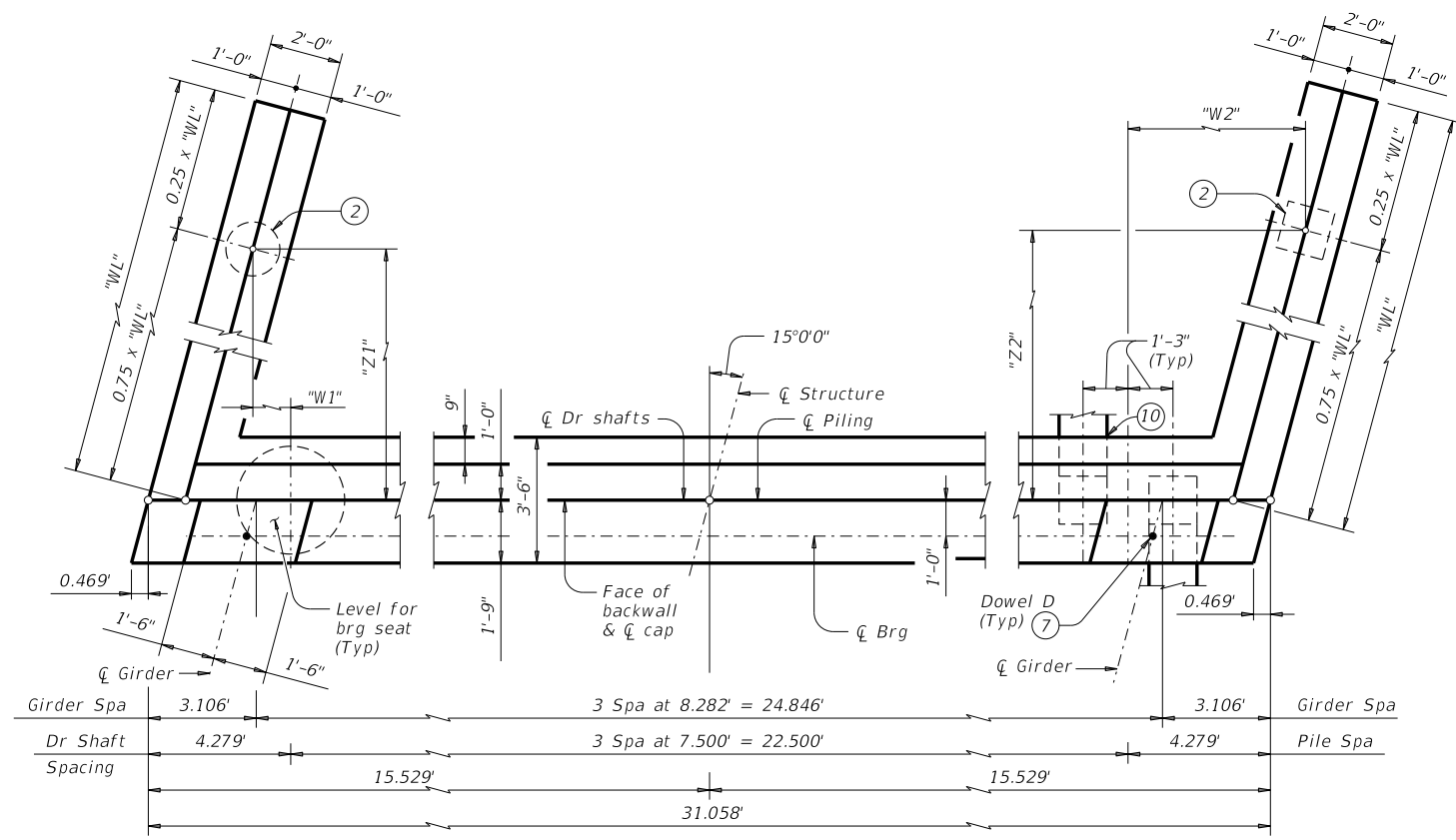


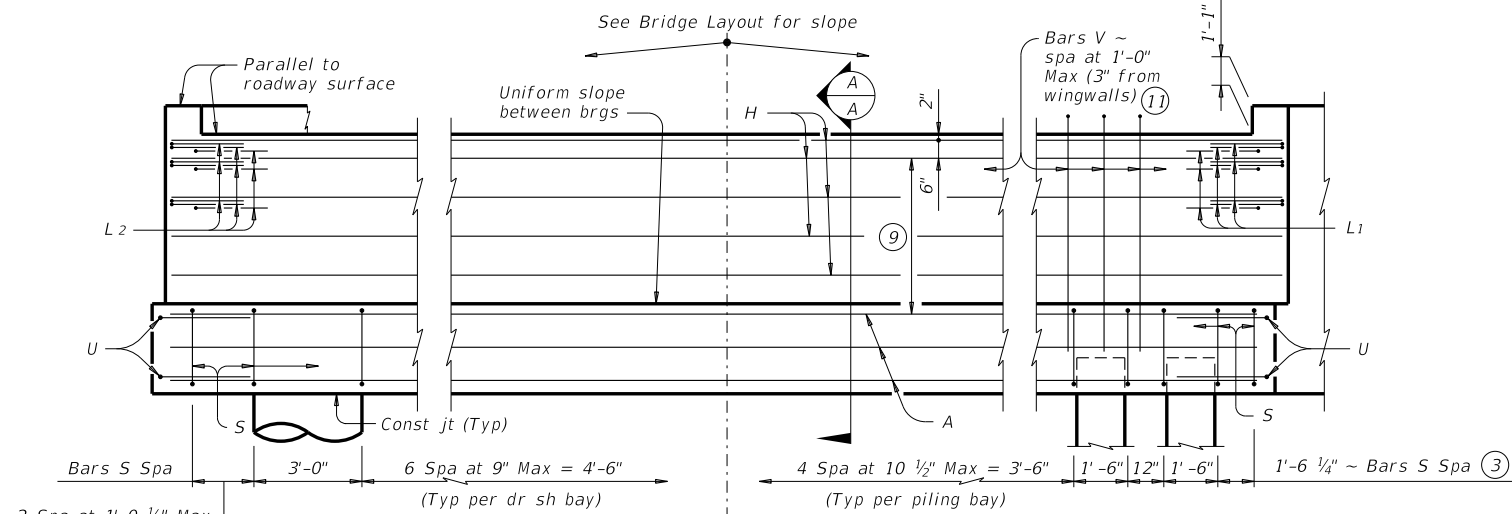
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SHOWING DRILLED SHAFTS      SHOWING PILES

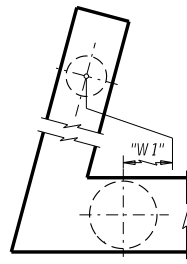
**PLAN 1**



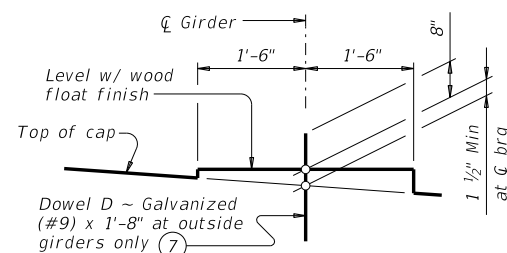
SHOWING DRILLED SHAFTS      SHOWING PILES

**ELEVATION**

Header Slope	Girder Type	Wingwall Type	Wingwall Lgth "WL"	"W1" <sup>(12)</sup>	"Z1"	"W2"	"Z2"				
2:1	Tx28	Cantilevered	8.000'	Not Applicable							
	Tx34	Cantilevered	9.000'								
	Tx40	Cantilevered	10.000'								
	Tx46	Cantilevered	11.000'								
	Tx54	Founded	13.000'	0.720'	9.418'	5.767'	9.418'				
3:1	Tx28	Cantilevered	12.000'	Not Applicable							
	Tx34	Founded	14.000'					0.526'	10.142'	5.961'	10.142'
	Tx40	Founded	15.000'					0.332'	10.867'	6.156'	10.867'
	Tx46	Founded	17.000'					-0.056'	12.316'	6.544'	12.316'
	Tx54	Founded	19.000'					-0.444'	13.764'	6.932'	13.764'

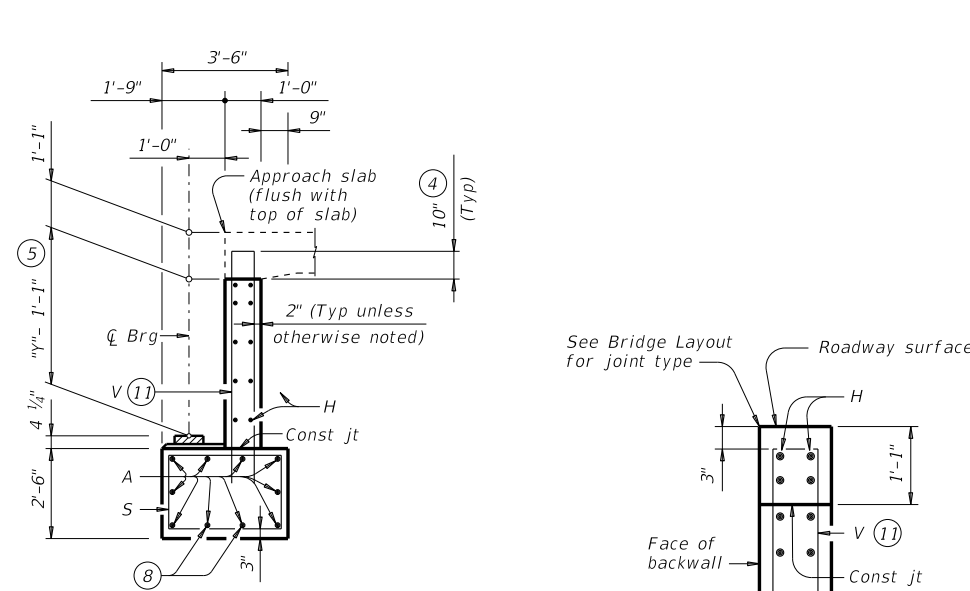


**DETAIL A**



**BEARING SEAT DETAIL**

(Bearing surface must be clean and free of all loose material before placing bearing pad.)



**SECTION A-A**

(With approach slab) ⑥

**BACKWALL DETAIL**

(Without approach slab) ⑥

- ① See Table A for variable dimensions based on header slope and girder type.
- ② See Table A to determine if wingwall foundations are required.
- ③ For piling larger than 16" adjust Bars S spacing as required to avoid piling.
- ④ Increase as required to maintain 3" from finished grade.
- ⑤ See Span details for "Y" value.
- ⑥ See Bridge Layout to determine if approach slab is present.
- ⑦ Omit Dowels D at end of multi-span unit. Adjust reinforcing steel total accordingly.
- ⑧ With pile foundations, move Bars A shown to clear piles.
- ⑨ Spacing based on girder type:  
Tx28 ~ 3 Spaces at 1'-0" Max  
Tx34 ~ 3 Spaces at 1'-0" Max  
Tx40 ~ 4 Spaces at 1'-0" Max  
Tx46 ~ 4 Spaces at 1'-0" Max  
Tx54 ~ 5 Spaces at 1'-0" Max
- ⑩ See Detail A on FD standard.
- ⑪ Field bend as needed to clear piles.
- ⑫ Negative values for the "W1" dimension indicates a wingwall foundation on the other side of the cap foundation from what is shown in plan view. See Detail A.

**GENERAL NOTES:**

Designed according to AASHTO LRFD Bridge Design Specifications.  
See Bridge Layout for header slope 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.  
These abutment details may be used with standard SIG-28-15 only.

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

**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.  
Galvanize dowel bars D.

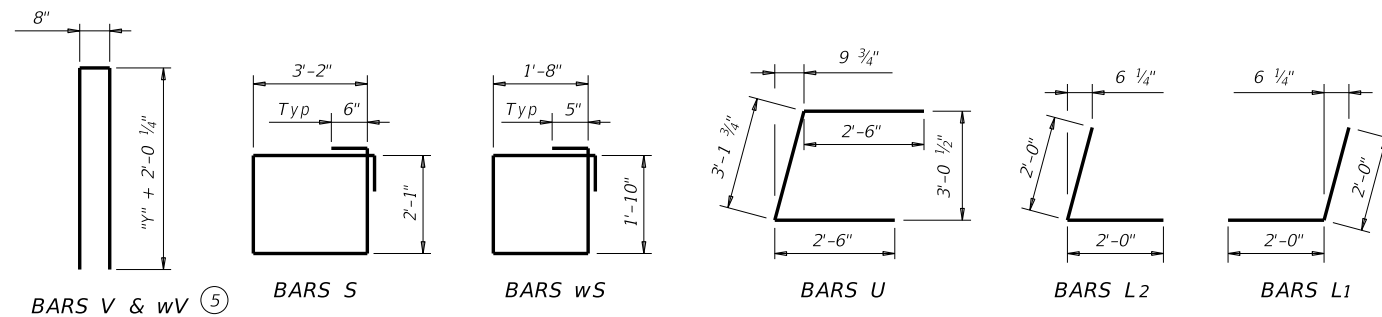
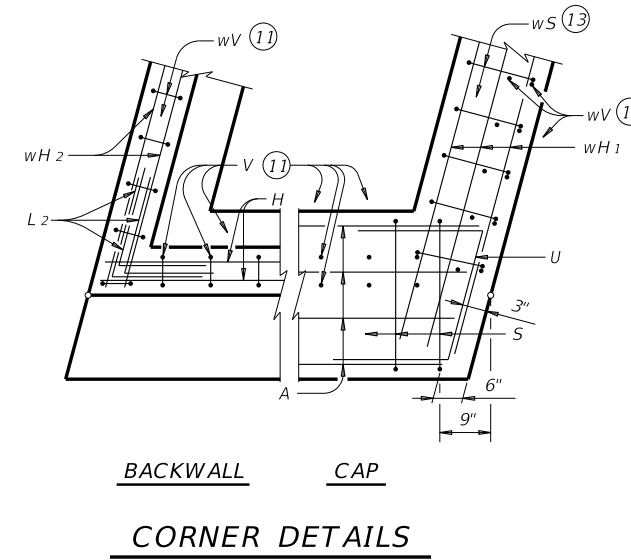
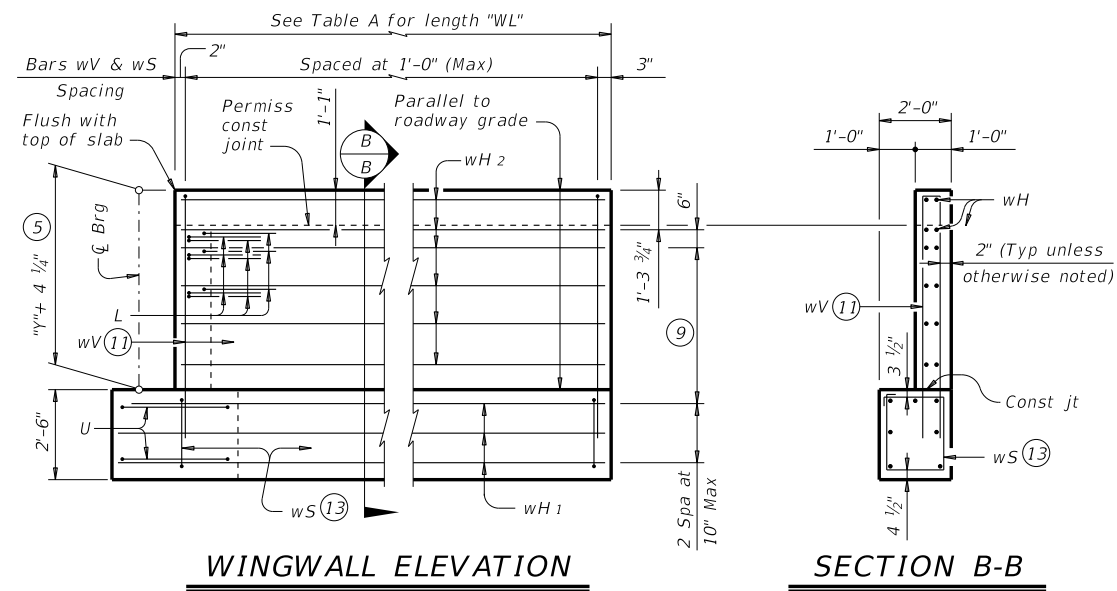
HL93 LOADING

SHEET 1 OF 3

		<b>Bridge Division Standard</b>	
<b>ABUTMENTS</b> TYPE TX28 THRU TX54 PRESTR CONC I-GIRDERS 28' ROADWAY      15° SKEW			
<b>AIG-28-15</b>			
FILE: IG-AIG2815-17.dgn	DN: TAR	CK: KCM	DW: JTR
©TxDOT August 2017	CONT	SECT	JOB
REVISIONS	COUNTY		SHEET NO.

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- ⑤ See Span details for "y" value.
- ⑨ Spacing based on girder type:  
Tx28 ~ 3 Spaces at 1'-0" Max  
Tx34 ~ 3 Spaces at 1'-0" Max  
Tx40 ~ 4 Spaces at 1'-0" Max  
Tx46 ~ 4 Spaces at 1'-0" Max  
Tx54 ~ 5 Spaces at 1'-0" Max
- ⑪ Field bend as needed to clear piles.
- ⑬ Adjust as required to avoid piling.

HL93 LOADING

SHEET 2 OF 3

		<b>Bridge Division Standard</b>	
<b>ABUTMENTS</b> TYPE TX28 THRU TX54 PRESTR CONC I-GIRDERS 28' ROADWAY 15° SKEW			
<b>AIG-28-15</b>			
FILE: IG-AIG2815-17.dgn	DN: TAR	CK: KCM	DW: JTR
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REVISIONS			
DIST	COUNTY	SHEET NO.	

