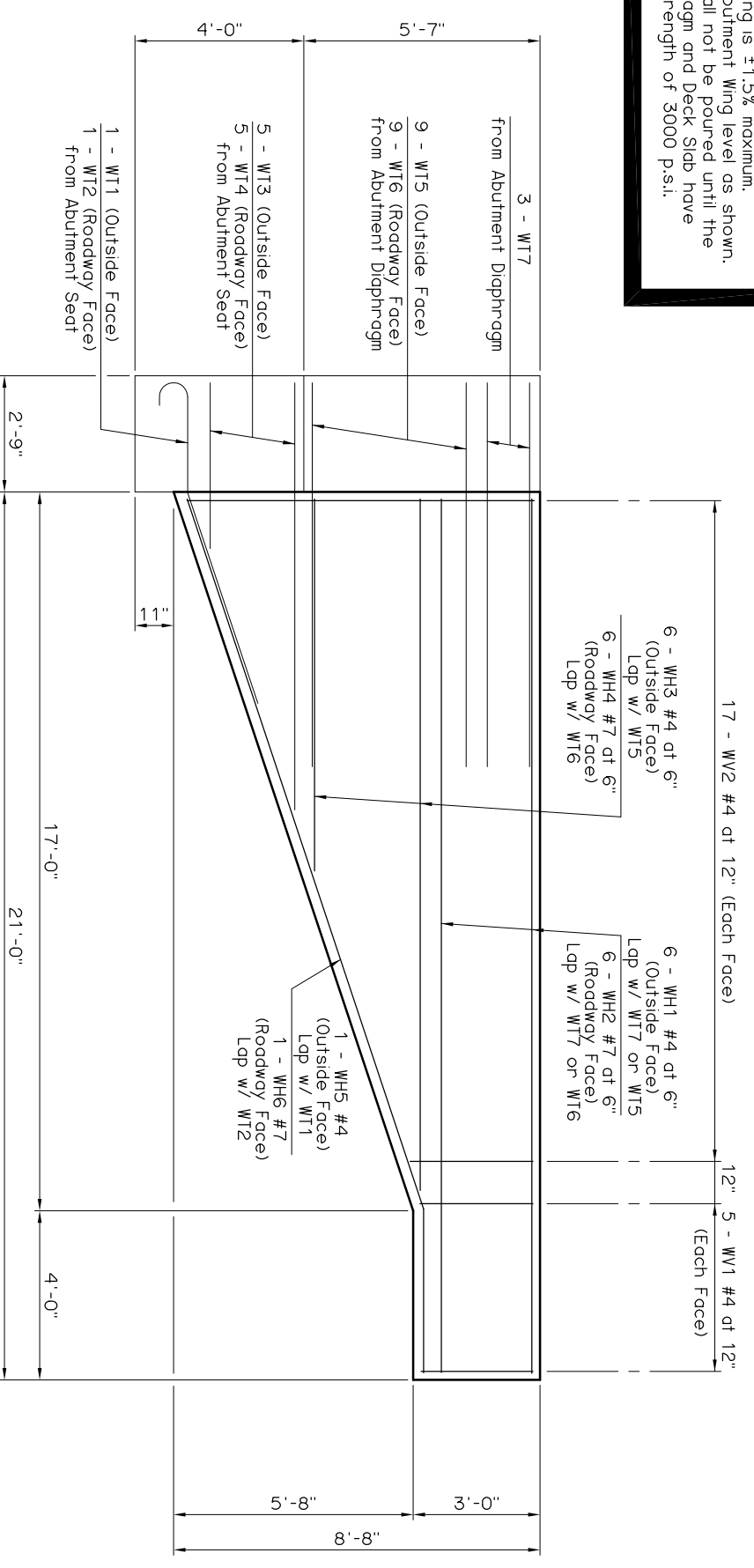
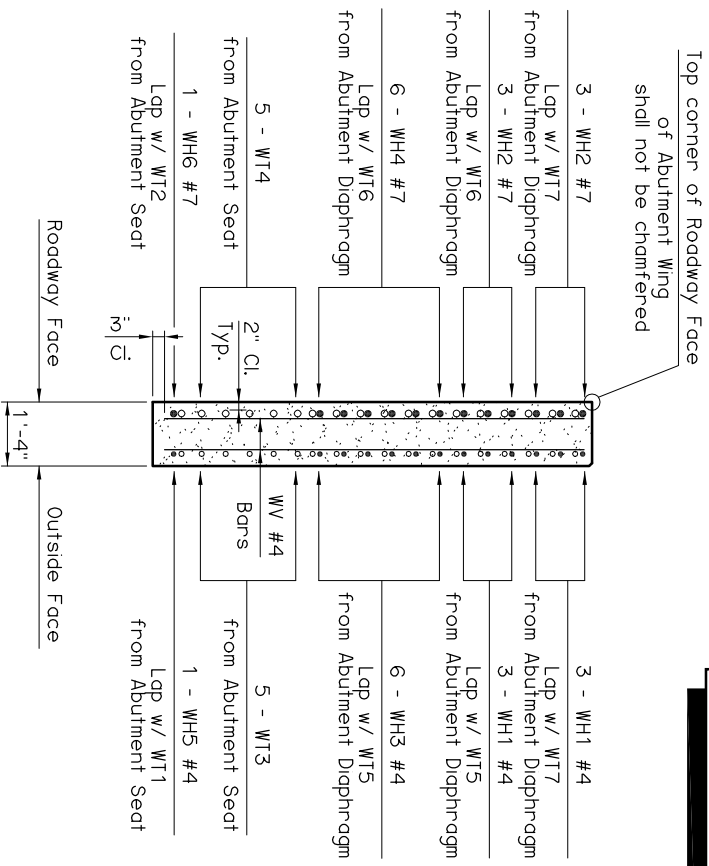
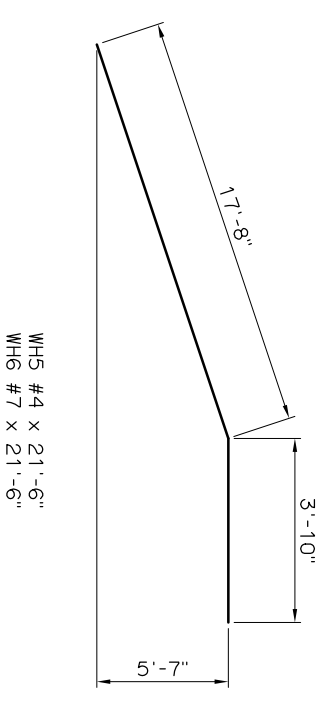


This standard may be used only if grade from Back Face of Abutment Seat to end of Wing is  $\pm 1.5\%$  maximum. Construct top of Abutment Wing level as shown. Abutment Diaphragm and Deck Slab have attained a strength of 3000 p.s.i.



**SECTION THRU WING AT  
BACK FACE OF ABUTMENT SEAT**

**WING ELEVATION**



WH5 #4 x 21'-6"  
WH6 #7 x 21'-6"

**ABUTMENT QUANTITIES**

ITEM	UNIT	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	C.Y.	45
GRANULAR BACKFILL	C.Y.	90
CLASS A CONCRETE	C.Y.	29.8
EPOXY COATED REINFORCING STEEL	LB.	4,830
PILES, FURNISHED (HP10x42)	L.F.	
PILES, DRIVEN (HP10x42)	L.F.	
WATER REPELLENT (VISUALLY INSPECTED)	S.Y.	11
6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.	42
6" NON-PERF. PIPE UNDERDRAIN RND.	L.F.	

**ABUTMENT WING BAR LIST**  
ONE SHOWN, TWO REQUIRED

MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION
EPOXY COATED REINFORCING					
WH1	#4	6	STR.	20'-8"	
WH2	#7	6	STR.	20'-8"	
WH3	#4	6	STR.	12'-5" AVG.	8'-8" to 16'-2"
WH4	#7	6	STR.	12'-5" AVG.	8'-8" to 16'-2"
WH5	#4	1	BNT.	21'-6"	
WH6	#7	1	BNT.	21'-6"	
WH1	#4	10	STR.	2'-7"	
WH2	#4	34	STR.	5'-6" AVG.	2'-10" to 8'-2"

① 2 Sets of 17

APPROVED BY BRIDGE ENGINEER *Clayton Head* DATE *8/18/03*

OKLAHOMA DEPT. OF TRANSPORTATION  
BRIDGE STANDARD (ENGLISH)  
ABUTMENT DETAILS  
TYPE IV P.C. BEAMS  
INTEGRAL (SHEET 2 OF 2)

1999 SPECIFICATIONS B40-I-ABUT-PC4-2 OOE B-45E