

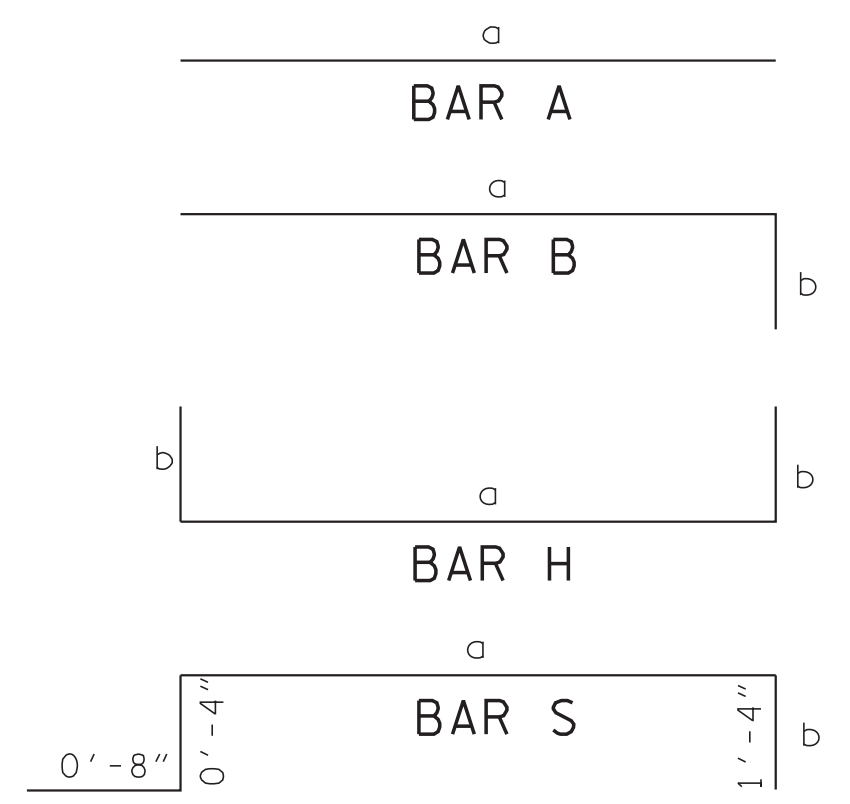
- REV. 7-29-92: REDREW, RENAMED, AND REORGANIZED SHEET. CHANGED DRAWING NUMBER FROM D-PE-6D(2) TO D-SEW-6D(2). ADDED REFERENCE TO TYPE "SD" ENDWALL. CORRECTED TABLE AS NEEDED.
- REV. 10-26-92: CHANGED DRAWING NUMBER FROM D-SEW-6D(2) TO D-SEW-6DB.

BILL OF STEEL																																						
CODE NO.	LOCATION	BAR SIZE	15" PIPE				18" PIPE				24" PIPE				30" PIPE				36" PIPE				42" PIPE				48" PIPE											
			DIMENSIONS BENDING		NO. REOD.	LENGTH	DIMENSIONS BENDING		NO. REOD.	LENGTH	DIMENSIONS BENDING		NO. REOD.	LENGTH	DIMENSIONS BENDING		NO. REOD.	LENGTH	DIMENSIONS BENDING		NO. REOD.	LENGTH	DIMENSIONS BENDING		NO. REOD.	LENGTH	DIMENSIONS BENDING		NO. REOD.	LENGTH								
			a	b			a	b			a	b			a	b			a	b			a	b			a	b			a	b						
A400	TOEWALL	4	2'-6"		4	2'-6"	2'-9"		4	2'-9"	3'-4"		4	3'-4"	3'-11"		4	3'-11"	4'-6"		4	4'-6"	5'-1"		4	5'-1"	5'-8"		4	5'-8"								
A401	WINGWALLS	4	11'-5"		2	11'-5"	12'-5"		2	12'-5"	15'-5"		2	15'-5"	19'-5"		2	19'-5"	23'-5"		2	23'-5"	27'-5"		2	27'-5"	28'-5"		2	28'-5"								
A402	WINGWALLS	4	5'-5"		2	5'-5"	6'-5"		2	6'-5"	9'-5"		2	9'-5"	13'-5"		2	13'-5"	17'-5"		2	17'-5"	21'-5"		2	21'-5"	22'-5"		2	22'-5"								
A403	WINGWALLS	4									3'-5"		2	3'-5"	7'-5"		2	7'-5"	11'-5"		2	11'-5"	15'-5"		2	15'-5"	16'-5"		2	16'-5"								
A404	WINGWALLS	4													1'-5"		2	1'-5"	5'-5"		2	5'-5"	9'-5"		2	9'-5"	10'-5"		2	10'-5"								
A405	WINGWALLS	4																								3'-5"		2	3'-5"	4'-5"		2	4'-5"					
A500	WINGWALLS	5	11'-10"		4	11'-10"	2'-10"		4	12'-10"	5'-10"		4	15'-10"	9'-11"		4	19'-11"	24'-0"		4	24'-0"	28'-1"		4	28'-1"	29'-1"		4	29'-1"								
A501	HEADWALL	5	1'-8"		4	1'-8"	1'-8"		4	1'-8"	1'-11"		4	1'-11"	2'-4"		4	2'-4"	2'-6"		4	2'-6"	2'-8"		4	2'-8"	2'-11"		4	2'-11"								
A502	HEADWALL	5	2'-6"		2	2'-6"	2'-9"		2	2'-9"	3'-4"		2	3'-4"	3'-11"		2	3'-11"	4'-6"		2	4'-6"	5'-1"		2	5'-1"	5'-8"		2	5'-8"								
A503	HEADWALL	5																								2'-2"		4	2'-2"	2'-4"		4	2'-4"					
B400	BOTTOM SLAB & WINGWALL	4	1'-0"	1'-8"	2	2'-8"	1'-0"	1'-10"	2	2'-10"	1'-0"	2'-4"	2	3'-4"	1'-0"	3'-0"	2	4'-0"	1'-0"	3'-8"	2	4'-8"	1'-0"	4'-4"	2	5'-4"	1'-0"	4'-6"	2	5'-6"								
B401	BOTTOM SLAB & WINGWALL	4	1'-0"	1'-0"	2	2'-0"	1'-0"	1'-2"	2	2'-2"	1'-0"	1'-8"	2	2'-8"	1'-0"	1'-8"	2	3'-4"	1'-0"	3'-0"	2	4'-0"	1'-0"	3'-8"	2	4'-8"	1'-0"	3'-10"	2	4'-10"								
B402	BOTTOM SLAB & WINGWALL	4	1'-0"	0'-6"	2	1'-6"	1'-0"	0'-6"	2	1'-6"	1'-0"	1'-0"	2	2'-0"	1'-0"	1'-8"	2	2'-8"	1'-0"	2'-4"	2	3'-4"	1'-0"	3'-0"	2	4'-0"	1'-0"	3'-2"	2	4'-2"								
B403	BOTTOM SLAB & WINGWALL	4									1'-0"	0'-6"	2	1'-6"	1'-0"	1'-0"	2	2'-0"	1'-0"	1'-8"	2	2'-8"	1'-0"	2'-4"	2	3'-4"	1'-0"	2'-6"	2	3'-6"								
B404	BOTTOM SLAB & WINGWALL	4													1'-0"	0'-6"	2	1'-6"	1'-0"	1'-0"	2	2'-0"	1'-0"	1'-8"	2	2'-8"	1'-0"	1'-0"	2	2'-10"								
B405	BOTTOM SLAB & WINGWALL	4																								1'-0"	0'-6"	2	1'-6"	1'-0"	1'-2"	2	2'-2"					
B406	BOTTOM SLAB & WINGWALL	4																								1'-0"	0'-6"	2	1'-6"	1'-0"	0'-6"	2	1'-6"					
H400	BOTTOM SLAB & HEADWALL	4	2'-6"	2'-9"	1	8'-0"	2'-9"	2'-11"	1	8'-7"	3'-4"	3'-5"	1	10'-2"	3'-11"	4'-1"	1	12'-1"	4'-6"	4'-9"	1	14'-0"	5'-1"	5'-5"	1	15'-11"	5'-8"	5'-7"	1	16'-10"								
H401	BOTTOM SLAB & WINGWALL	4	2'-6"	2'-8"	1	7'-10"	2'-9"	2'-10"	1	8'-5"	3'-4"	3'-4"	1	10'-0"	3'-11"	4'-0"	1	11'-11"	4'-6"	4'-8"	1	13'-10"	5'-1"	5'-4"	1	15'-9"	5'-8"	5'-6"	1	16'-8"								
H402	BOTTOM SLAB & WINGWALL	4	2'-6"	2'-2"	1	6'-10"	2'-9"	2'-4"	1	7'-5"	3'-4"	2'-10"	1	9'-0"	3'-11"	3'-6"	1	10'-11"	4'-6"	4'-2"	1	12'-10"	5'-1"	4'-10"	1	14'-9"	5'-8"	5'-0"	1	15'-8"								
H403	BOTTOM SLAB & WINGWALL	4	2'-6"	2'-0"	1	6'-6"	2'-9"	2'-2"	1	7'-1"	3'-4"	2'-8"	1	8'-8"	3'-11"	3'-4"	1	10'-7"	4'-6"	4'-0"	1	12'-6"	5'-1"	4'-8"	1	14'-5"	5'-8"	4'-10"	1	15'-4"								
H404	BOTTOM SLAB & WINGWALL	4	2'-6"	1'-10"	1	6'-2"	2'-9"	2'-0"	1	6'-9"	3'-4"	2'-6"	1	8'-4"	3'-11"	3'-2"	1	10'-3"	4'-6"	3'-10"	1	12'-2"	5'-1"	4'-6"	1	14'-1"	5'-8"	4'-8"	1	15'-0"								
H405	BOTTOM SLAB & WINGWALL	4	2'-6"	1'-8"	1	5'-10"	2'-9"	1'-10"	1	6'-5"	3'-4"	2'-4"	1	8'-0"	3'-11"	3'-0"	1	9'-11"	4'-6"	3'-8"	1	11'-10"	5'-1"	4'-4"	1	13'-9"	5'-8"	4'-6"	1	14'-8"								
H406	BOTTOM SLAB & WINGWALL	4	2'-6"	1'-6"	1	5'-6"	2'-9"	1'-8"	1	6'-1"	3'-4"	2'-2"	1	7'-8"	3'-11"	2'-10"	1	9'-7"	4'-6"	3'-6"	1	11'-9"	5'-1"	4'-2"	1	13'-5"	5'-8"	4'-4"	1	14'-4"								
H407	BOTTOM SLAB & WINGWALL	4	2'-6"	1'-4"	1	5'-2"	2'-9"	1'-6"	1	5'-9"	3'-4"	2'-0"	1	7'-4"	3'-11"	2'-8"	1	9'-3"	4'-6"	3'-4"	1	11'-2"	5'-1"	4'-0"	1	13'-1"	5'-8"	4'-2"	1	14'-0"								
H408	BOTTOM SLAB & WINGWALL	4	2'-6"	1'-2"	1	4'-10"	2'-9"	1'-4"	1	5'-5"	3'-4"	1'-10"	1	7'-0"	3'-11"	2'-6"	1	8'-11"	4'-6"	3'-2"	1	10'-10"	5'-1"	3'-10"	1	12'-9"	5'-8"	4'-0"	1	13'-8"								
H409	BOTTOM SLAB & WINGWALL	4	2'-6"	1'-0"	1	4'-6"	2'-9"	1'-2"	1	5'-1"	3'-4"	1'-8"	1	6'-8"	3'-11"	2'-4"	1	8'-7"	4'-6"	3'-0"	1	10'-6"	5'-1"	3'-8"	1	12'-5"	5'-8"	3'-10"	1	13'-4"								
H410	BOTTOM SLAB & WINGWALL	4	2'-6"	0'-10"	1	4'-2"	2'-9"	1'-0"	1	4'-9"	3'-4"	1'-6"	1	6'-4"	3'-11"	2'-2"	1	8'-3"	4'-6"	2'-10"	1	10'-2"	5'-1"	3'-6"	1	12'-1"	5'-8"	3'-8"	1	13'-0"								
H411	BOTTOM SLAB & WINGWALL	4	2'-6"	0'-8"	1	3'-10"	2'-9"	0'-10"	1	4'-5"	3'-4"	1'-4"	1	6'-0"	3'-11"	2'-0"	1	7'-11"	4'-6"	2'-8"	1	9'-10"	5'-1"	3'-4"	1	11'-9"	5'-8"	3'-6"	1	12'-8"								
H412	BOTTOM SLAB & WINGWALL	4	2'-6"	0'-6"	1	3'-6"	2'-9"	0'-8"	1	4'-1"	3'-4"	1'-2"	1	5'-8"	3'-11"	1'-10"	1	7'-7"	4'-6"	2'-6"	1	9'-6"	5'-1"	3'-2"	1	11'-5"	5'-8"	3'-4"	1	12'-4"								
H413	BOTTOM SLAB & WINGWALL	4	2'-6"	0'-6"	1	3'-6"	2'-9"	0'-6"	1	3'-9"	3'-4"	1'-0"	1	5'-4"	3'-11"	1'-8"	1	7'-3"	4'-6"	2'-4"	1	9'-2"	5'-1"	3'-0"	1	11'-1"	5'-8"	3'-2"	1	12'-0"								
H414	BOTTOM SLAB & WINGWALL	4					2'-9"	0'-6"	1	3'-9"	3'-4"	0'-10"	1	5'-0"	3'-11"	1'-6"	1	6'-11"	4'-6"	2'-2"	1	8'-10"	5'-1"	2'-10"	1	10'-9"	5'-8"	3'-0"	1	11'-8"								
H415	BOTTOM SLAB & WINGWALL	4									3'-4"	0'-8"	1	4'-8"	3'-11"	1'-4"	1	6'-7"	4'-6"	2'-0"	1	8'-6"	5'-1"	2'-8"	1	10'-5"	5'-8"	2'-10"	1	11'-4"								
H416	BOTTOM SLAB & WINGWALL	4									3'-4"	0'-6"	1	4'-4"	3'-11"	1'-2"	1	6'-3"	4'-6"	1'-10"	1	8'-2"	5'-1"	2'-6"	1	10'-1"	5'-8"	2'-8"	1	11'-0"								
H417	BOTTOM SLAB & WINGWALL	4									3'-4"	0'-6"	1	4'-4"	3'-11"	1'-0"	1	5'-11"	4'-6"	1'-8"	1	7'-10"	5'-1"	2'-4"	1	9'-9"	5'-8"	2'-6"	1	10'-8"								
H418	BOTTOM SLAB & WINGWALL	4													3'-11"	0'-10"	1	5'-7"	4'-6"	1'-6"	1	7'-6"	5'-1"	2'-2"	1	9'-5"	5'-8"	2'-4"	1	10'-4"								
H419	BOTTOM SLAB & WINGWALL	4													3'-11"	0'-8"	1	5'-3"	4'-6"	1'-4"	1	7'-2"	5'-1"	2'-0"	1	9'-1"	5'-8"	2'-2"	1	10'-0"								
H420	BOTTOM SLAB & WINGWALL	4													3'-11"	0'-6"	1	4'-11"	4'-6"	1'-2"	1	6'-10"	5'-1"	1'-10"	1	8'-9"	5'-8"	2'-0"	1	9'-8"								
H421	BOTTOM SLAB & WINGWALL	4													3'-11"	0'-6"	1	4'-11"	4'-6"	1'-0"	1	6'-6"	5'-1"	1'-8"	1	8'-5"	5'-8"	1'-10"	1	9'-4"								
H422	BOTTOM SLAB & WINGWALL	4																								4'-6"	0'-10"	1	6'-2"	5'-8"	1'-8"	1	9'-0"					
H423	BOTTOM SLAB & WINGWALL	4																								4'-6"	0'-8"	1	5'-10"	5'-8"	1'-4"	1	8'-8"					
H424	BOTTOM SLAB & WINGWALL	4																								4'-6"	0'-6"	1	5'-6"	5'-8"	1'-2"	1	8'-4"					
H425	BOTTOM SLAB & WINGWALL	4																								4'-6"	0'-6"	1	5'-6"	5'-8"	1'-2"	1	8'-0"					
H426	BOTTOM SLAB & WINGWALL	4																									5'-1"	0'-10"	1	6'-9"	5'-8"	1'-0"	1	7'-8"				
H427	BOTTOM SLAB & WINGWALL	4																									5'-1"	0'-8"	1	6'-5"	5'-8"	0'-10"	1	7'-4"				
H428	BOTTOM SLAB & WINGWALL	4																									5'-1"	0'-6"	1	6'-1"	5'-8"	0'-8"	1	7'-0"				
H429	BOTTOM SLAB & WINGWALL	4																									5'-1"	0'-6"	1	6'-1"	5'-8"	0'-6"	1	6'-8"				
H430	BOTTOM SLAB & WINGWALL	4																																	5'-8"	0'-6"	1	6'-8"
S400	BOTTOM SLAB & WINGWALL	4	13'-0"	①	4	15'-4"	14'-0"	①	4	16'-4"	17'-0"	①	4	19'-4"	21'-0"	①	5	23'-4"	25'-0"	①	5	27'-4"	29'-0"	①	6	31'-4"	30'-0"	①	6	32'-4"								

① SEE LEGEND FOR ADDITIONAL DIMENSIONS.



REINFORCING STEEL LEGEND



TO BE USED ON SIDE DRAINS ONLY.
 ☐ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 CONCRETE ENDWALL
 TYPE "SD" WITH
 STEEL PIPE GRATE
 FOR 15" THRU 48"
 PIPES - 6:1 SLOPE
 2-26-87 D-SEW-6DB