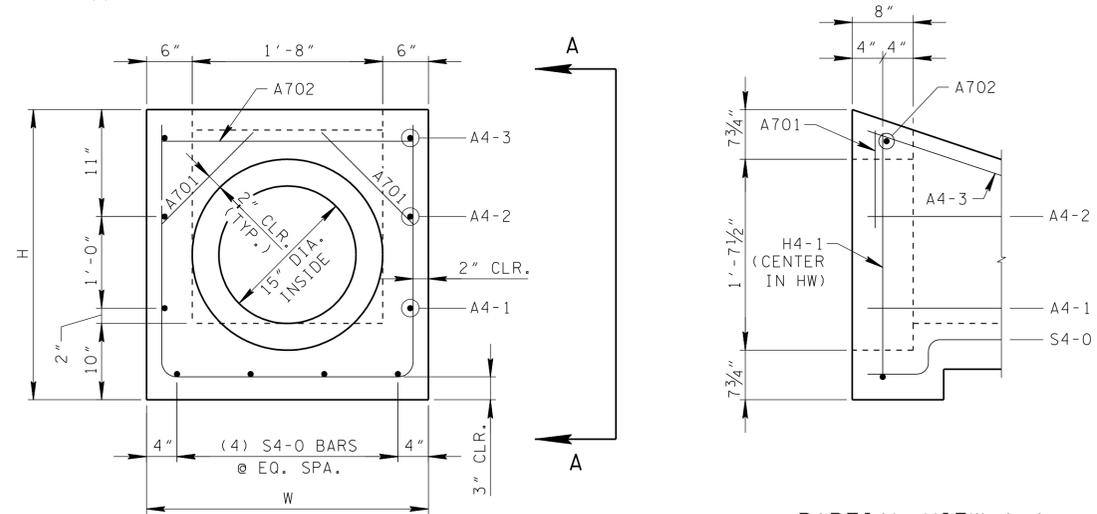
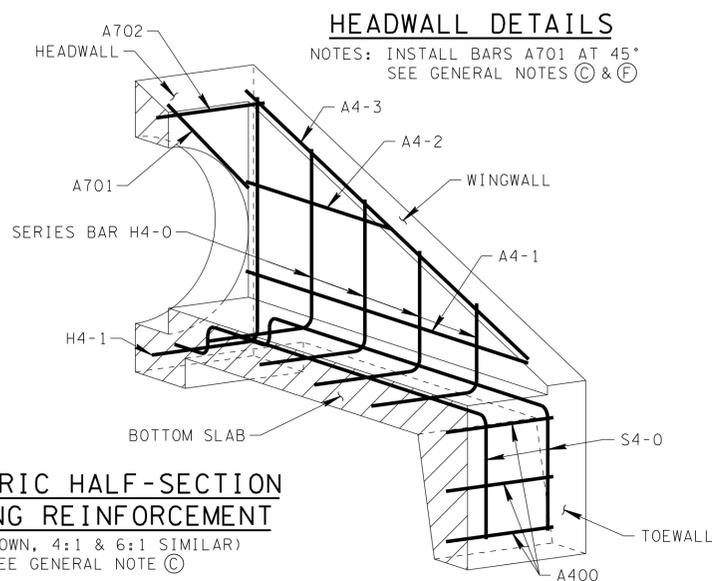


**ISOMETRIC VIEW**  
NOTE: 3/4" CHAMFER REQUIRED ON ALL EXPOSED EDGES

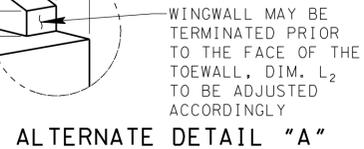


**ELEVATION**

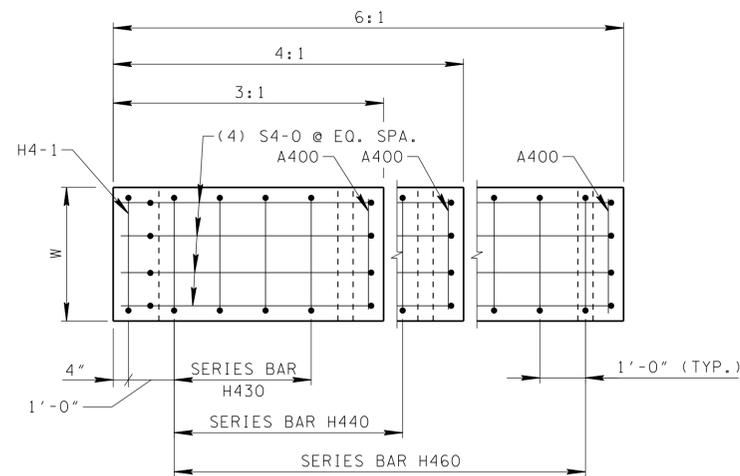
**PARTIAL VIEW A-A**



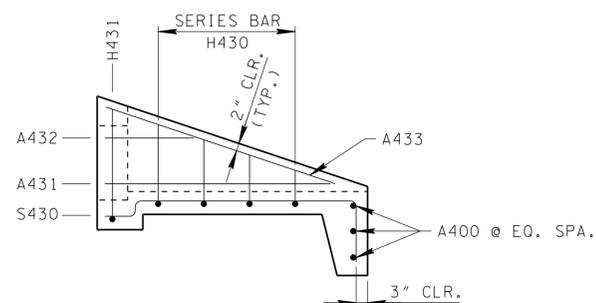
**ISOMETRIC HALF-SECTION SHOWING REINFORCEMENT**  
(3:1 SHOWN, 4:1 & 6:1 SIMILAR)  
SEE GENERAL NOTE (C)



**ALTERNATE DETAIL "A"**

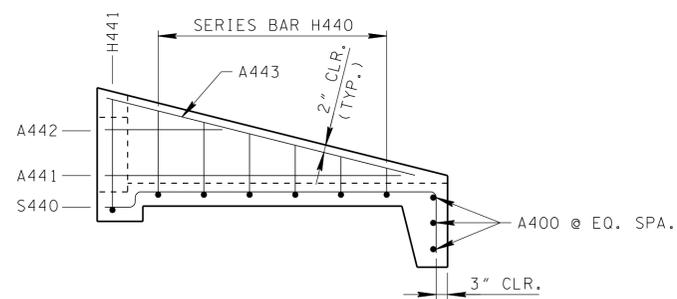


**BOTTOM SLAB PLAN**



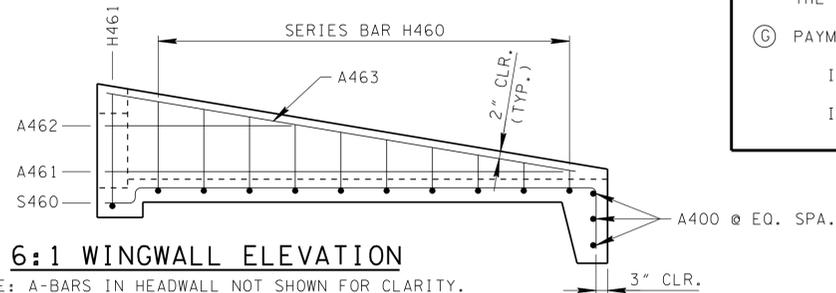
**3:1 WINGWALL ELEVATION**

NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.



**4:1 WINGWALL ELEVATION**

NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.



**6:1 WINGWALL ELEVATION**

NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.

**GENERAL NOTES**

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE AND ALL PRECAST 15" CONCRETE ENDWALLS (TYPE "U") FOR CROSS DRAINS ONLY. "U" ENDWALL TO BE PLACED AT 90° SKEW TO CENTERLINE. SEE STD. DWG. D-PE-99 FOR SKEWED CONNECTION DETAIL WHEN CROSS DRAIN IS NOT PERPENDICULAR TO CENTERLINE. CAST-IN-PLACE CONCRETE ENDWALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
- (B) SEE STD. DWG. D-PE-15B FOR BILL OF STEEL & PRECAST NOTES.
- (C) "-" IN BAR DESIGNATION REPRESENTS 3, 4 OR 6 FOR 3:1, 4:1 OR 6:1 SLOPES, RESPECTIVELY.
- (D) SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
- (E) TOEWALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15°.
- (F) OPTIONAL STEPPED HOLE IS ALLOWED PROVIDED THE AMOUNT OF COVER BETWEEN THE PIPE OPENING AND BARS A701 AND A702 IS THE SAME OR GREATER THAN SHOWN ON THIS DRAWING.
- (G) PAYMENT WILL BE MADE UNDER:
  - ITEM NO. 611-07.01, CLASS "A" CONCRETE (PIPE ENDWALLS)----CU. YD.
  - ITEM NO. 611-07.02, STEEL BAR REINFORCING (PIPE ENDWALLS)----LB.

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 15" PIPE						
SLOPE	CONCRETE ENDWALL DIMENSIONS				ESTIMATED QUANTITIES	
	H	L <sub>1</sub>	L <sub>2</sub>	W	CLASS "A"	STEEL BAR
					CONC. CU. YD.	REINF. LB.
3:1	2'-11"	6'-0"	6'-3 3/8"	2'-8"	0.72	68
4:1	2'-11"	8'-0"	8'-3"	2'-8"	0.89	85
6:1	2'-11"	11'-2"	11'-3 3/8"	2'-8"	1.21	117

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

15"  
CONCRETE ENDWALL  
CROSS DRAIN  
(FOR 3:1, 4:1 & 6:1 SLOPES)