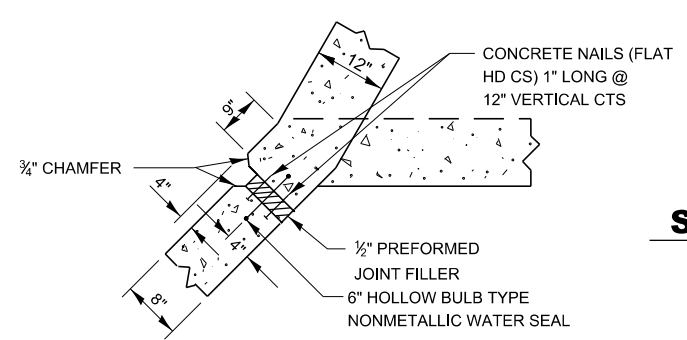


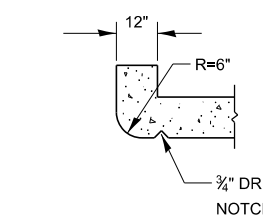
GENERAL NOTES

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
 EXPOSED EDGES SHALL BE BEVELED 3/4".
 FOR BACKFILLING AND EMBANKMENTS SEE STANDARD SPECIFICATIONS.
 REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-43, OR M-53, GRADE 60.
 NONMETALLIC WATER SEAL USED IN WINGWALL JOINTS SHALL EXTEND FROM THE TOP OF THE FOOTING TO WITHIN 6" OF THE TOP OF THE HEADWALL.
 BARS INDICATED THUS 12x4-#5 ECT. INDICATES 12 LINES OF BARS WITH 4 LENGTHS PER LINE.

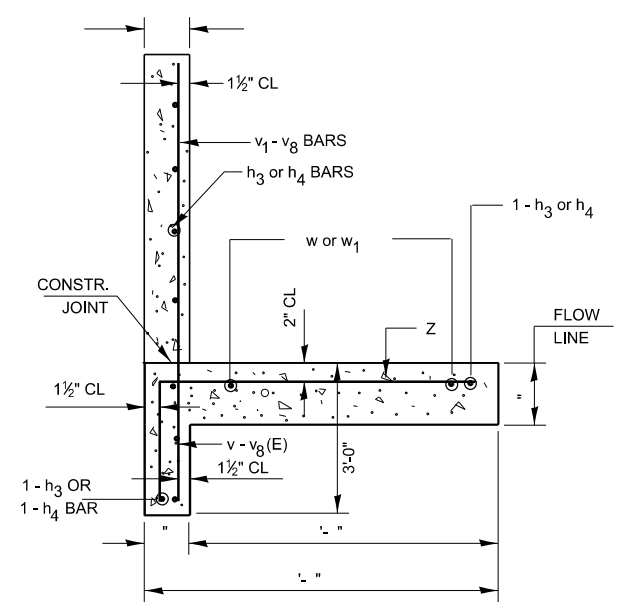


CORNER DETAIL

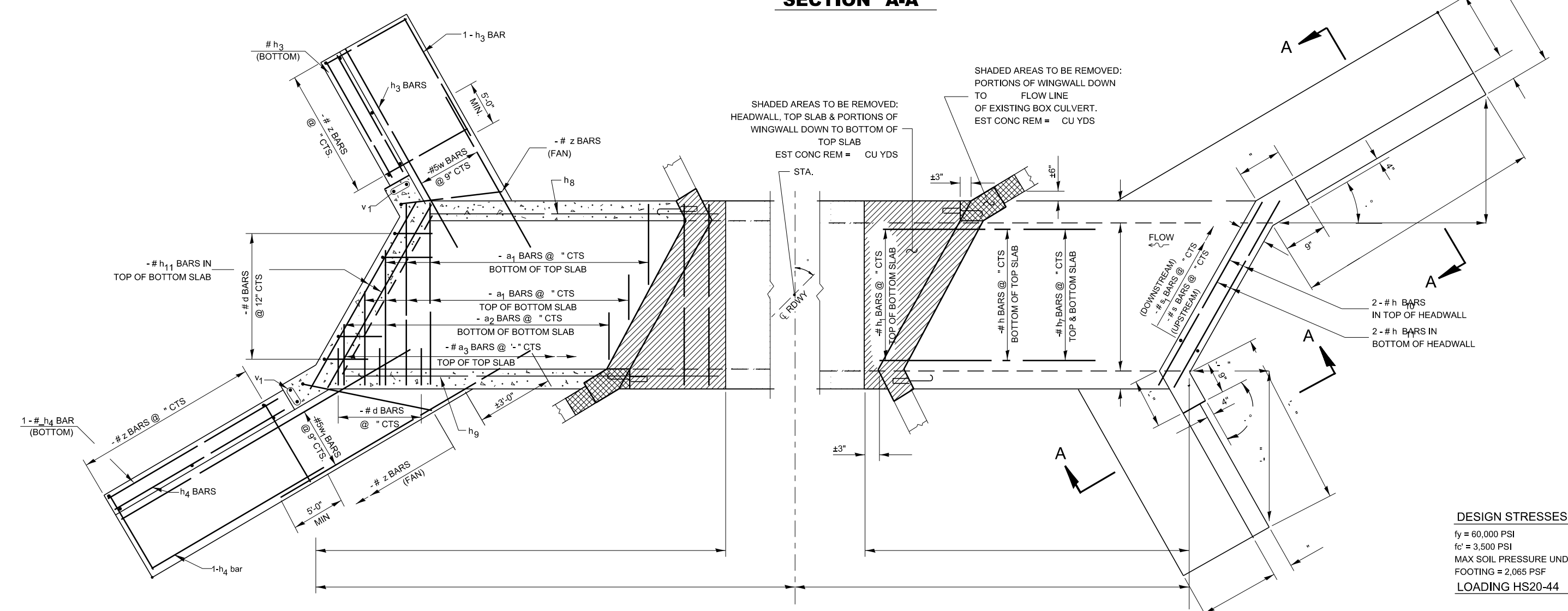
SECTION THRU HEADWALL
(UP STREAM END ONLY)



NOTE:
 a BARS IN SKEW PORTION OF SLAB SHALL BE ORDERED FULL LENGTH & CUT TO FIT.
 BALANCE OF BAR TO BE USED IN OPPOSITE END OF CULVERT.



SECTION "A-A"



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

SHADED AREAS TO BE REMOVED:
 PORTIONS OF WINGWALL DOWN TO FLOW LINE
 OF EXISTING BOX CULVERT.
 EST CONC REM = CU YDS

SHADED AREAS TO BE REMOVED:
 HEADWALL, TOP SLAB & PORTIONS OF WINGWALL DOWN TO BOTTOM OF TOP SLAB
 EST CONC REM = CU YDS

2 - # h BARS IN TOP OF HEADWALL
 2 - # h BARS IN BOTTOM OF HEADWALL

DESIGN STRESSES
 fy = 60,000 PSI
 fc' = 3,500 PSI
 MAX SOIL PRESSURE UNDER FOOTING = 2,065 PSF
 LOADING HS20-44

540-2A

MODEL det 3 d.tbl
 FILE Name: p:\w\sc\paw\benetey.com\PROJECTS\Documents\DOT\Office\Drawings\Detail\Revisions\2023\500-599 STRUCTURES.dgn
 PROJECT: 500-599 STRUCTURES.dgn
 DATE: 9/27/23

USER NAME = Anthony.Grunstad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 9/27/23	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION STATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				