

CRSI CANTILEVERED RETAINING WALL-8' HEIGHT
CRSI DESIGN GUIDE FOR CANTILEVERED RETAINING WALLS,
1ST EDITION & CRSI DESIGN HANDBOOK 2008, 10TH EDITION

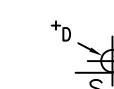
DIMENSIONS	
Hw	8'
Astem	8"
C	3'
W	5' - 2"
Abase	12"
Lap ("01" bar height above footer)	25"

STEM REINFORCEMENT	
”O”	#4 @ 9”
”O1”	#4 @ 9”
”Lw”	#4 @ 11 1/8”

BASE REINFORCEMENT	
"P"	#4 @ 9"
"Lb"	7-#4 BARS
"HEADED"	NONE

SOIL PROPERTIES	
μ	0.45
γ	130 pcf
ϕ	30 deg.
BACKFILL SLOPE	LEVEL

”01” BAR REQUIREMENT

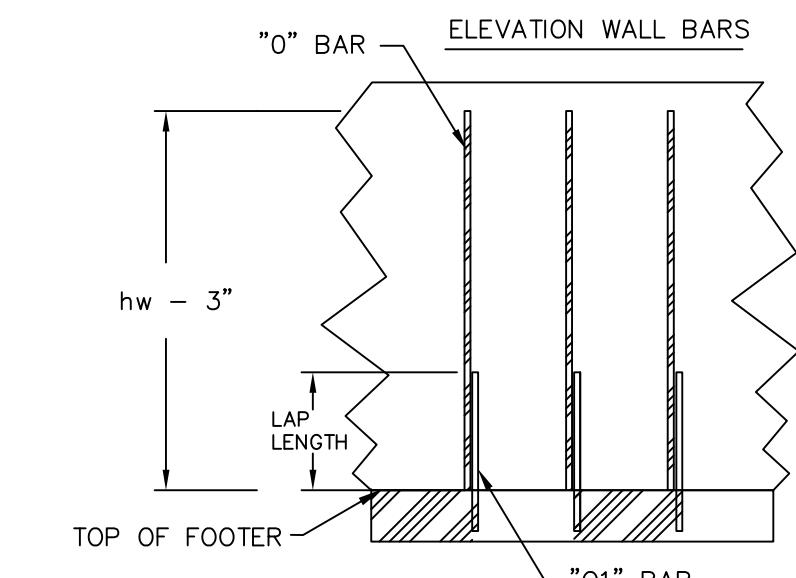


<u>BAR SIZE</u>	BEND DIAMETER (D) INCHES
#4	3
#5	3-3/4
#6	4-1/2

LAP SPLICE LENGTH FOR ALL #4 BARS
SHALL BE 25"

LAP SPLICE LENGTH FOR ALL #5 BARS
SHALL BE 31"

LAP SPLICING LENGTH FOR ALL #6 BARS
SHALL BE 37"

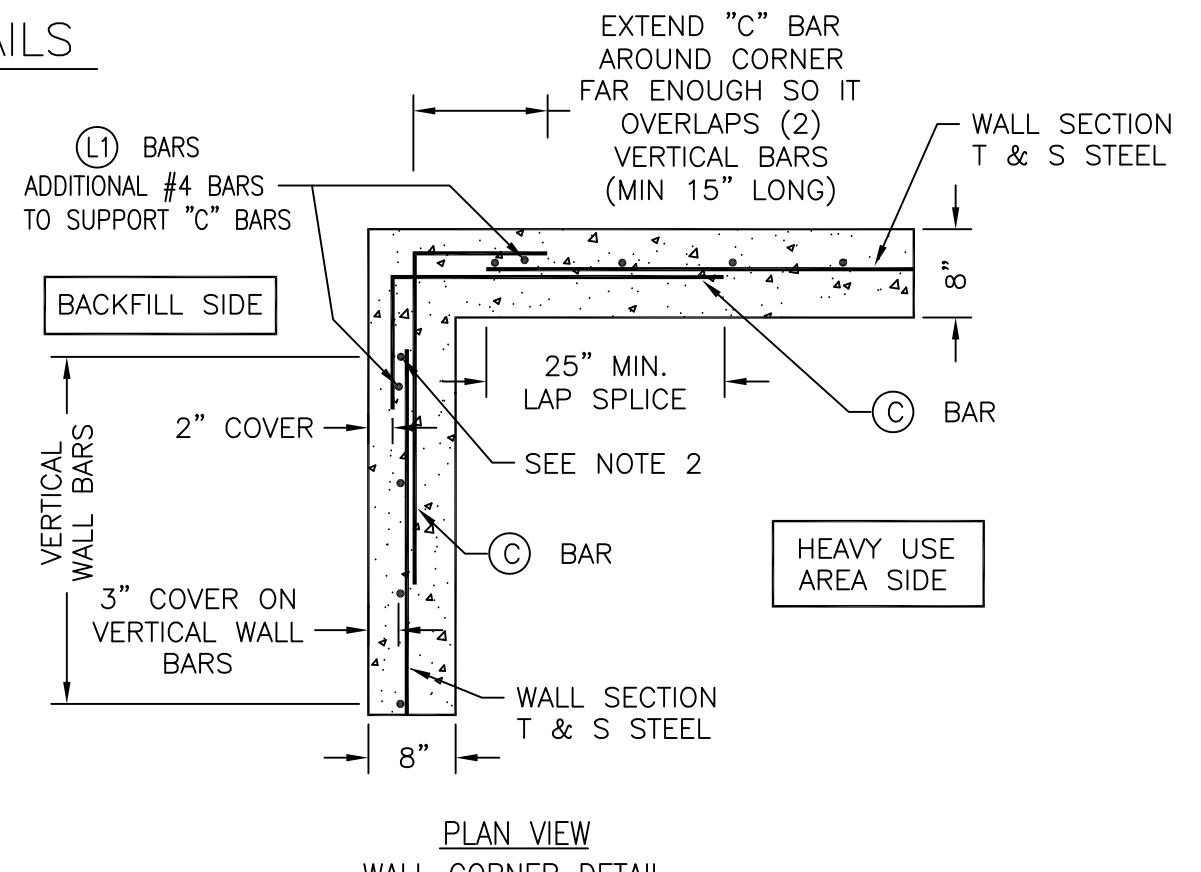
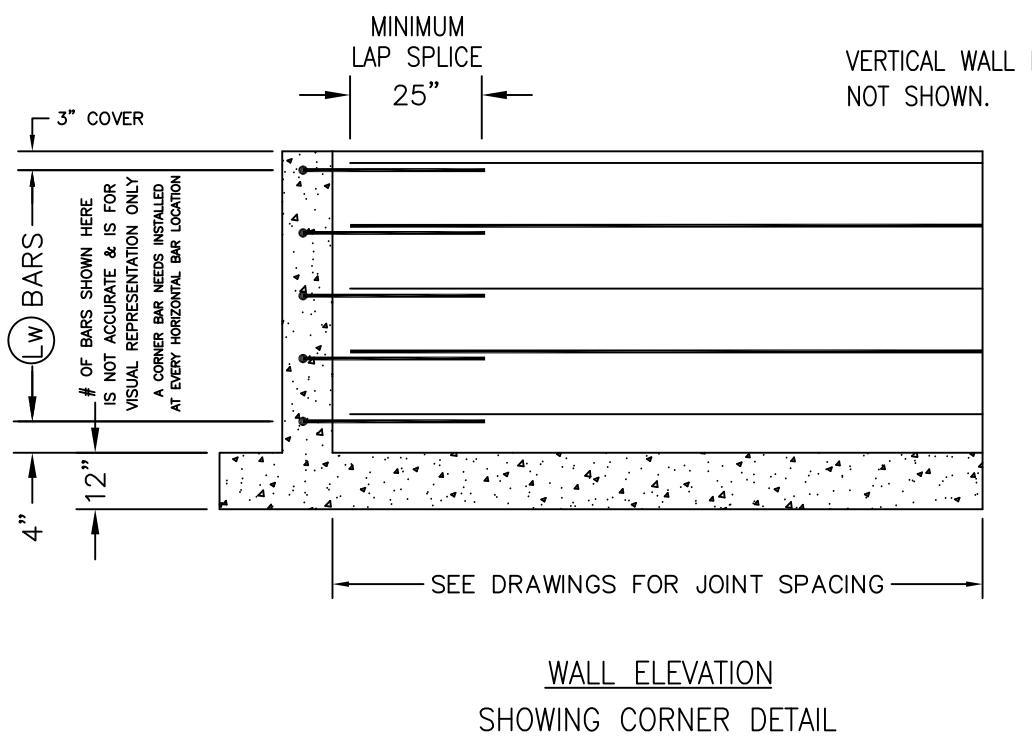


NOT

NOTES

1. ALL CONCRETE IS 4,000 psi,
2. ALL STEEL IS 24,000 psi (GRADE 60)
3. FOUNDATION SHALL BE APPROVED PRIOR TO FLOOR INSTALLATION
4. WATER TABLE MUST BE BELOW THE FOOTING ELEVATION.
4" PERMINER DRAIN REQUIRED WITH FREE OUTLET AND ANIMAL GUARD.
5. STAGGER ALL JOINT SPLICES
6. WATERSTOP SHALL BE 4" VINYL-BULB TYPE
7. FOOTING AND FLOOR CONCRETE TO BE PLACED ON MIN. OF 4" OF AASHTO #57 STONE

8' WALL CORNER DETAILS



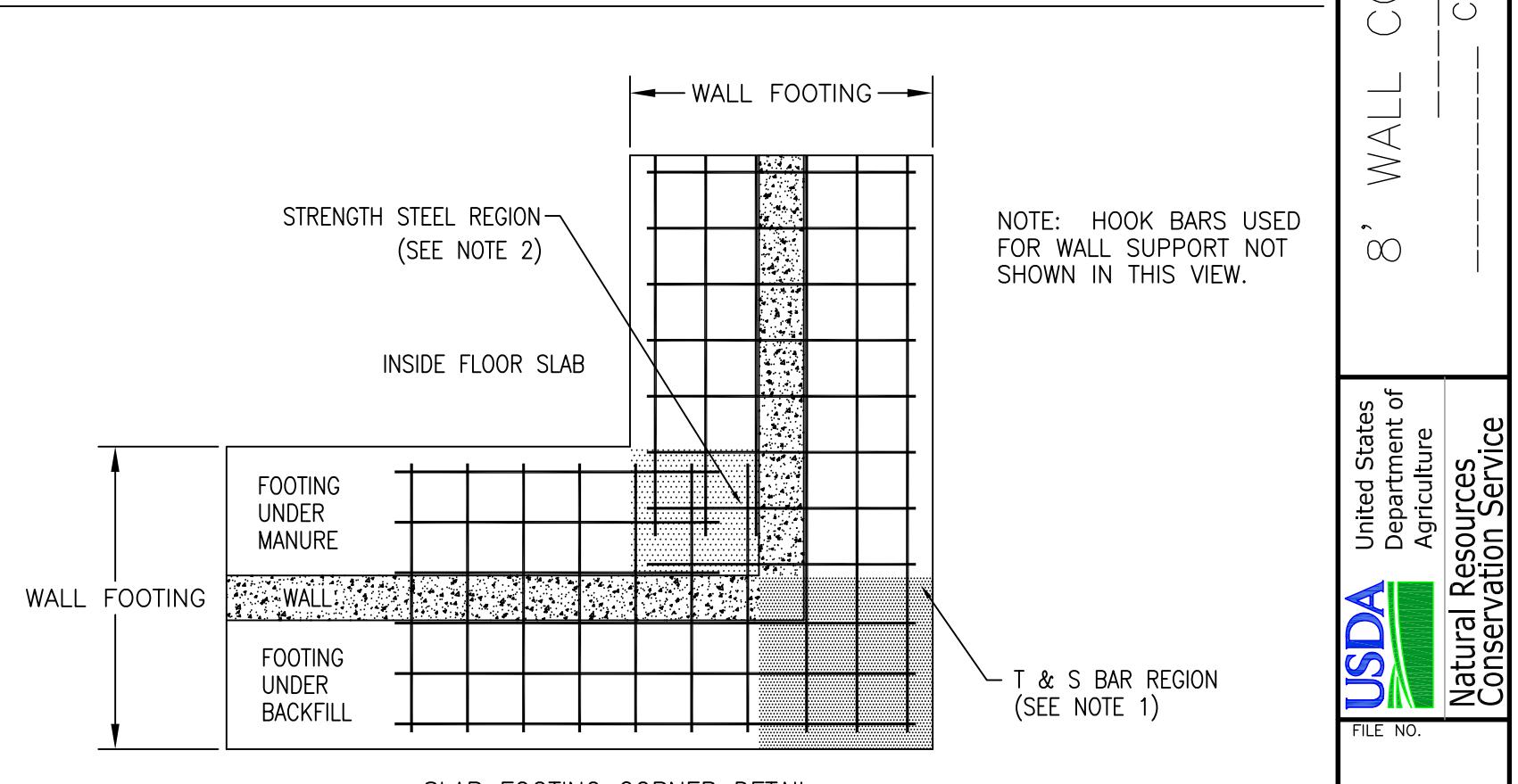
ADAPTED AND MODIFIED FROM STANDARD DRAWING # PA-027A

NOTES:

1. (C) BARS SHALL BE PLACED AT EVERY (Lw) BAR LOCATION
SEE WALL DRAWINGS FOR BAR SIZE AND SPACING.
2. PLACE FIRST VERTICAL BAR (SEE PLAN VIEW) AT
WALL CORNER, OR NO FARTHER THAN ONE-HALF THE VERTICAL
BAR SPACING FROM THE CORNER.
3. (C) BARS ARE #4 BARS (GRADE 60)

NOTES FOR FOOTING STEEL PLACEMENT

- 1.) FOOTING TEMPERATURE AND SHRINKAGE STEEL (T&S) TO BE EXTENDED INTO THIS REGION FROM BOTH SIDES OF CORNER. REGION IS OUTSIDE EXTENSION OF WALLS INCLUDING WALL THICKNESS.
- 2.) STRENGTH STEEL IS EXTENDED INTO THIS REGION FROM BOTH SIDES OF CORNER. REGION IS INSIDE EXTENSION OF THE WALLS. FOOTING SLAB T&S STEEL OUTSIDE THE CORNER REGION TO LAP SPLICE WITH THE STRENGTH STEEL 16 INCHES.
- 3.) IN THE CORNER REGIONS, STRENGTH STEEL AND T&S STEEL WILL REQUIRE SWITCHING POSITIONS FROM TOP TO BOTTOM AND VICE VERSA.



DRAWING ADAPTED & MODIFIED FROM STANDARD DRAWING: PA-023

8' WALL CORNER DETAILS
FARM
COUNTY, PENNSYLVANIA

DATE 11/2023

DESIGNED	DRAWN
BTQ	CHECKED
	APPROVED