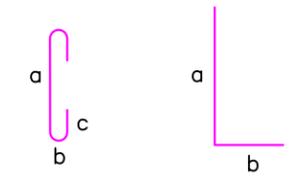


STEEL SCHEDULE

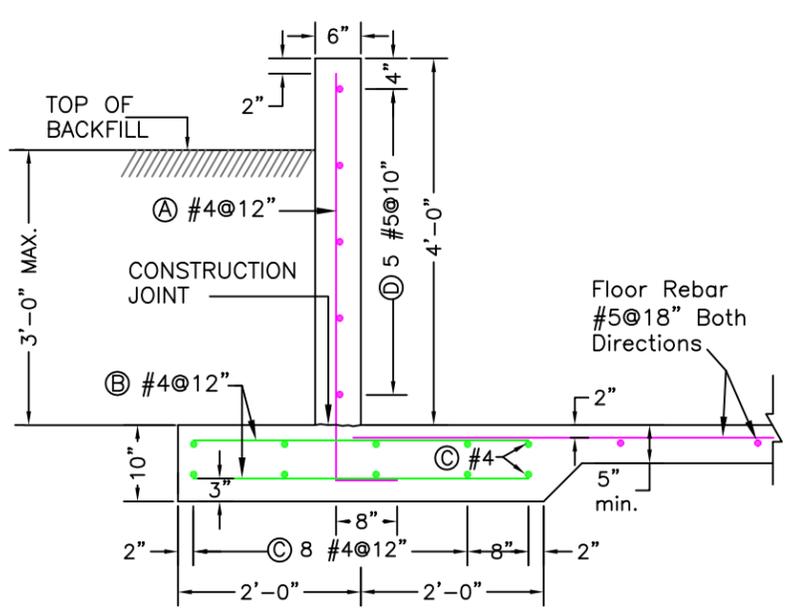
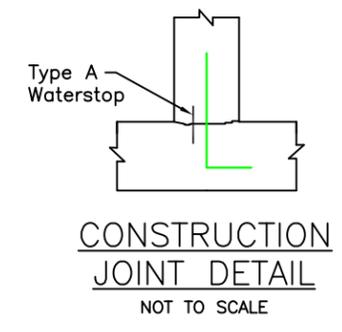
MARK	SIZE	QUANTITY	TYPE	a	b	c	LENGTH	TOTAL LENGTH
A	4		21	4'-5"	0'-8"	-	5'-1"	
B	4		Straight	-	-	-	3'-8"	
C	4		Straight	-	-	-		
D	5		Straight	-	-	-		
K	4		22	1'-2 1/2"	0'-2 1/4"	0'-4"	2'-3"	
L	5		21	4'-0"	4'-0"	-	8'-0"	
M	4		Straight	-	-	-	3'-8"	

#4 BARS, TOTAL LENGTH = _____ X 0.668 LBS/FT. = _____LBS
 #5 BARS, TOTAL LENGTH = _____ X 1.043 LBS/FT. = _____LBS
 TOTAL REBAR = _____ LBS
 CONCRETE = 0.198 CY/FT. OF WALL LENGTH ESTIMATED TOTAL = _____CY

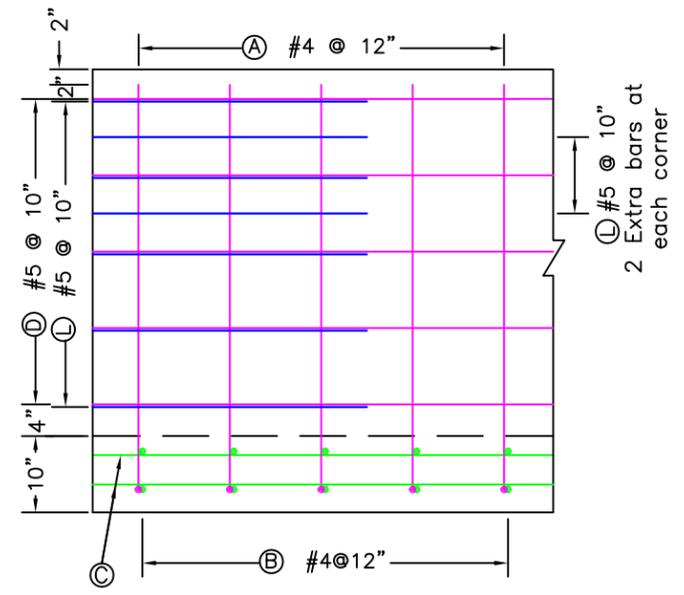
MINIMUM LAP SPLICE
 #4 bars = 1'-8"
 #5 bars = 2'-1"



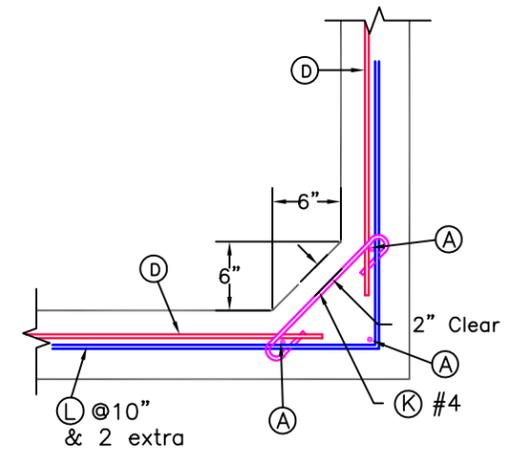
TYPE 22 BAR TYPE 21 BAR



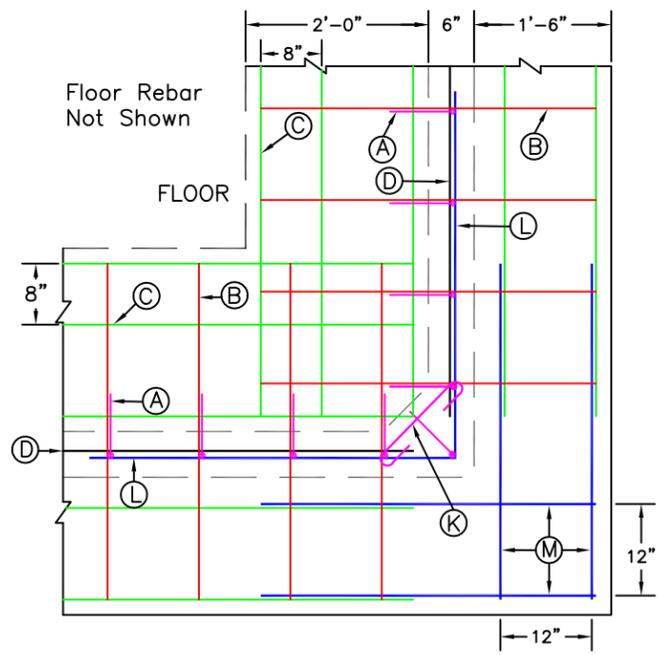
SECTION
 SCALE 1/2" = 1'



CORNER ELEVATION
 SCALE 1/2" = 1'



WALL CORNER FILLET DETAIL
 NOT TO SCALE



- (K) - 7 Bars per corner
- (L) - 7 Bars per corner
- (M) - 8 Bars per corner
- (A) - 1 Extra Bar per corner

NOTE: All bars spaced 12" on center except where noted.

CORNER DETAIL (PLAN VIEW)
 SCALE 1/2" = 1'

WALL DESIGN LOADING

- * MANURE LOADING = 65 pcf
- * BACKFILL: GRANULAR, NON-COHESIVE
- * DENSITY = 120 pcf; $\phi = 30^\circ$
- * SURCHARGE = 2' OF BACKFILL EQUIVALENT (120 psf EFP REPRESENTING MACHINERY LOAD ON SOIL)

CONSTRUCTION

- * CONTRACTION JOINTS SHALL BE PLACED IN WALLS AT A MAXIMUM SPACING OF 150'
- * EXPANSION JOINTS IN THE FLOOR SLABS SHALL BE A MAXIMUM OF 80', THE SUBBASE MATERIAL UNDER THE SLAB SHALL BE SAND, OR AT LEAST 2" OF SAND OVER CRUSHED STONE OR GRAVEL. SEE PROJECT DRAWINGS AND SPECS FOR ADDITIONAL SUBBASE REQUIREMENTS.
- * UNLESS OTHERWISE SHOWN, PROVIDE A MINIMUM OF 2" OF CONCRETE COVER OVER ALL STEEL.
- * ALL CONTRACTION AND EXPANSION JOINTS SHALL HAVE TYPE B WATERSTOPS.
- * DRAINAGE SHALL BE DIRECTED AWAY FROM THE WALL.
- * THE TOP WIDTH OF THE BACKFILL AROUND THE WALL SHALL BE AT LEAST 2 TIMES THE BACKFILL HEIGHT.

CONDITIONS OF USE

- * STANDARD DRAWING - DESIGNER MUST ENSURE THE APPLICATION OF THIS DRAWING MEETS THE ASSUMPTIONS OF THE DESIGN AS STATED.
- * BACKFILL HEIGHT- 0' to 3'
- * FOOTING MUST BE RESTRAINED WITH A FLOOR SLAB.
- * DRAINAGE CONDITION: FULL DRAINAGE, EITHER BY COARSE WELL DRAINED BACKFILL OR A DRAINAGE SYSTEM.
- * MINIMUM SUBGRADE BEARING CAPACITY = 2,000 psf
- * CONCRETE STRENGTH = 4,000 psi REBAR = GRADE 60

WASTE STORAGE FACILITY	
4' HIGH "TEE" WALL	
PARTIAL BACKFILL (0 TO 3 FEET)	
STANDARD DWG. NO. MA-WSF-01	
DATE Sept. 2009	SHEET 1 OF 1

Date _____

Designed _____ Drawn _____ Checked _____ Approved _____

STANDARD DRAWING
 4' HIGH "TEE" WALL
 PARTIAL BACKFILL (0 TO 3 FEET)
 WASTE STORAGE FACILITY

United States Department of Agriculture
 Natural Resources Conservation Service

Project Name _____
 Drawing Name MA-WSF-01
 Sheet _____ of _____