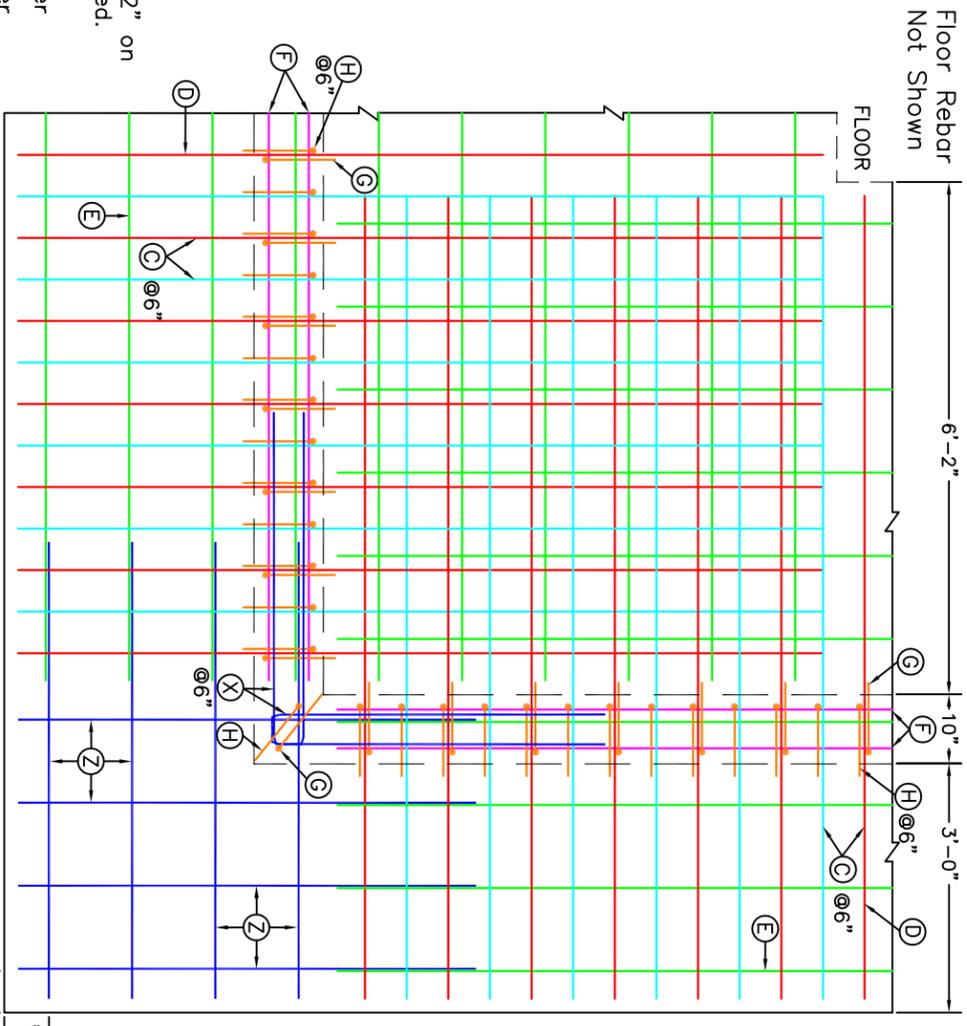


Date _____
 Designed _____
 Drawn _____
 Checked _____
 Approved _____

STANDARD DRAWING
 10' HIGH "TEE" WALL
 PARTIAL BACKFILL (0'-0" TO 6'-0")
 WASTE STORAGE FACILITY

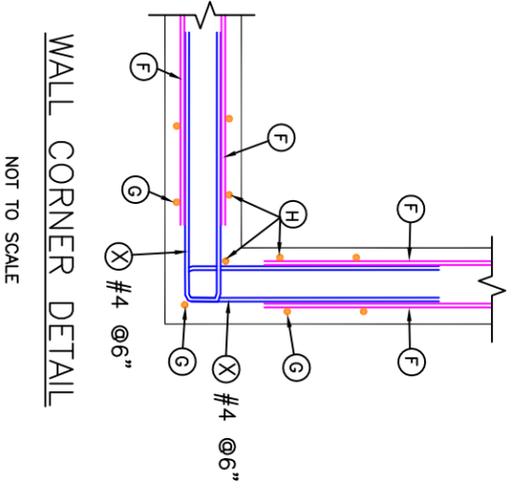
United States
 Department of
 Agriculture
**Natural Resources
 Conservation Service**

Project Name _____
 Drawing Name MA-WSF-07
 Sheet of _____

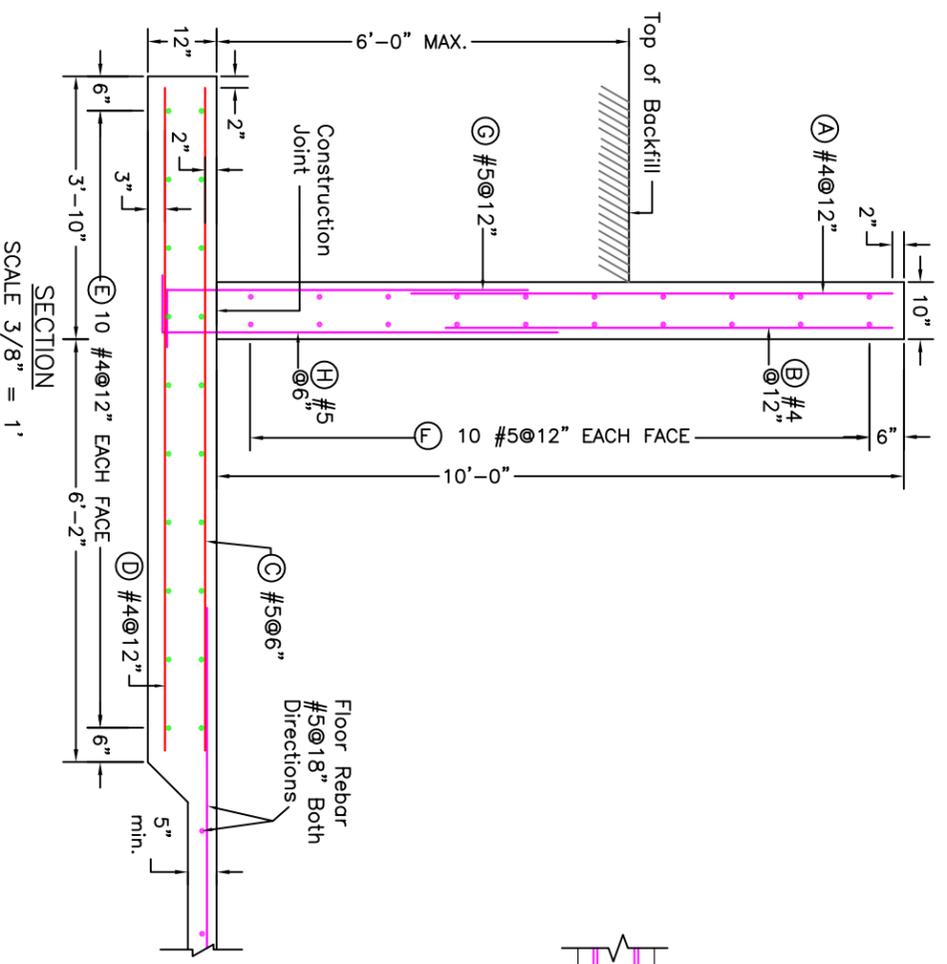


CORNER DETAIL (PLAN VIEW)
 NOT TO SCALE

NOTE: All bars spaced 12" on center except where noted.
 (A) - 1 bar per corner
 (B) - 1 bar per corner
 (C) - 1 bar per corner
 (H) - 1 bar per corner
 (X) - 38 bars per corner
 (Z) - 16 bars per corner



WALL CORNER DETAIL
 NOT TO SCALE



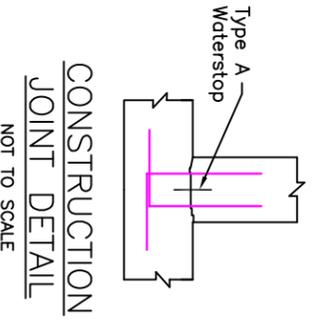
SECTION
 SCALE 3/8" = 1'

STEEL SCHEDULE

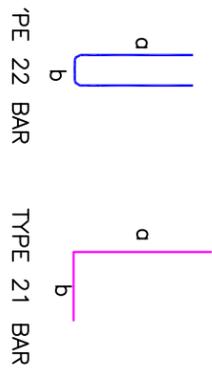
MARK	SIZE	QUANTITY	TYPE	a	b	LENGTH	TOTAL LENGTH
A	4		Straight	-	-	7'-0"	
B	4		Straight	-	-	6'-6"	
C	5		Straight	-	-	9'-8"	
D	4		Straight	-	-	9'-8"	
E	4		Straight				
F	5		Straight				
G	5			5'-3"	0'-10"	6'-1"	
H	5			5'-9"	0'-10"	6'-7"	
X	4			4'-0"	0'-4"	8'-4"	
Z	4		Straight			5'-6"	

#4 BARS, TOTAL LENGTH = _____ X 0.668 LBS/FT. = _____ LBS
 #5 BARS, TOTAL LENGTH = _____ X 1.043 LBS/FT. = _____ LBS

TOTAL REBAR = _____ LBS
 CONCRETE = 0.679 CY/FT. OF WALL LENGTH ESTIMATED TOTAL = _____ CY



CONSTRUCTION JOINT DETAIL
 NOT TO SCALE



TYPE 22 BAR TYPE 21 BAR

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

CONSTRUCTION
 * CONTRACTION JOINTS SHALL BE PLACED IN WALL 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 6'.
 * 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 pcf
 * CONCRETE STRENGTH = 4,000 psi REBAR = GRADE 60

WASTE STORAGE FACILITY
 10' HIGH "TEE" WALL
 PARTIAL BACKFILL (0'-0" TO 6'-0")
 STANDARD DWG. NO. MA-WSF-07
 DATE Sept. 2009 SHEET 1 OF 1

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