

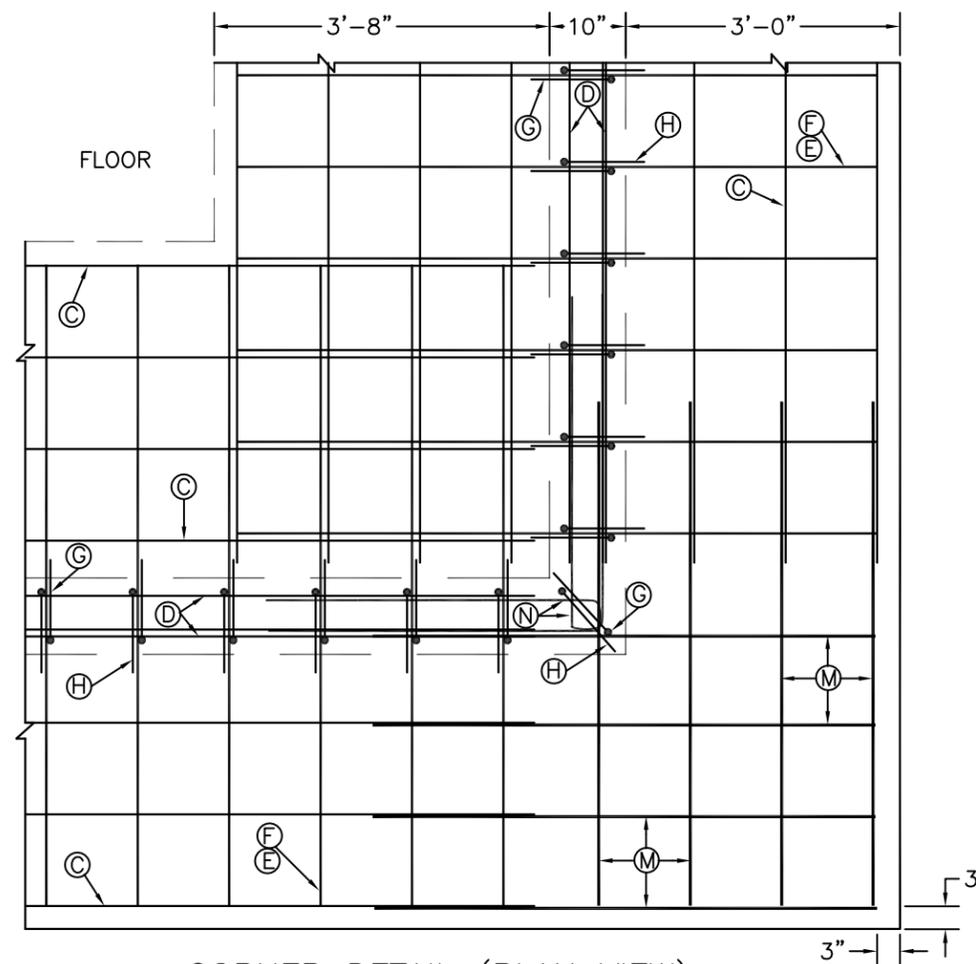
SECTION  
SCALE 1/2" = 1'

STEEL SCHEDULE

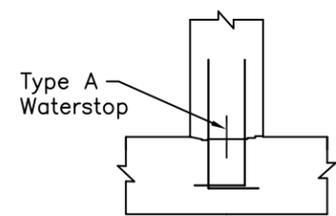
MARK	SIZE	QUANTITY	TYPE	a	b	LENGTH	TOTAL LENGTH
A	4		Straight	-	-	6'-8"	
B	4		Straight	-	-	6'-8"	
C	4		Straight				
D	5		Straight				
E	4		Straight	-	-	7'-0"	
F	5		Straight			7'-0"	
G	5	21		3'-9"	0'-10"	4'-7"	
H	5	21		3'-9"	0'-10"	4'-7"	
M	4		Straight			5'-6"	
N	4	22		3'-8"	0'-4"	7'-8"	

#4 BARS, TOTAL LENGTH = \_\_\_\_\_ X 0.668 LBS/FT. = \_\_\_\_\_LBS  
 #5 BARS, TOTAL LENGTH = \_\_\_\_\_ X 1.043 LBS/FT. = \_\_\_\_\_LBS  
 TOTAL REBAR = \_\_\_\_\_ LBS  
 CONCRETE = 0.525 CY/FT. OF WALL LENGTH ESTIMATED TOTAL = \_\_\_\_\_CY

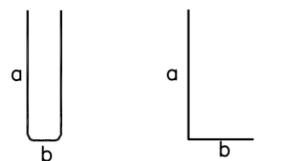
MINIMUM LAP SPLICE  
 #4 bars = 1'-8"  
 #5 bars = 2'-1"



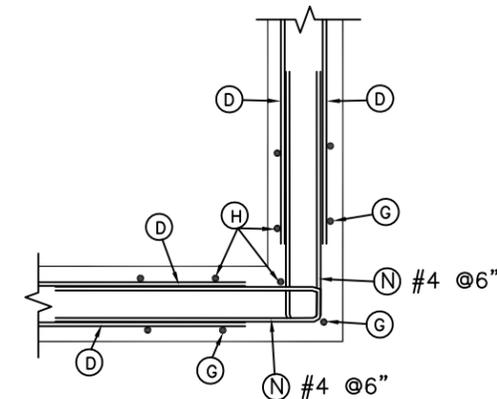
CORNER DETAIL (PLAN VIEW)  
SCALE 1/2" = 1'



CONSTRUCTION JOINT DETAIL  
NOT TO SCALE



TYPE 22 BAR TYPE 21 BAR



WALL CORNER DETAIL  
NOT TO SCALE

- (A) - 1 bar per corner
- (B) - 1 bar per corner
- (C) - 1 bar per corner
- (H) - 1 bar per corner
- (M) - 16 bars per corner
- (N) - 30 bars per corner

WALL DESIGN LOADING

- \* MANURE LOADING = 65 pcf
- \* BACKFILL: GRANULAR, NON-COHESIVE
- \* DENSITY = 120 pcf;  $\phi = 30^\circ$
- \* SURCHARGE = 2 FT 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 6'
- \* FOOTING MUST BE TIED TO 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	
8' HIGH "TEE" WALL	
PARTIAL BACKFILL (0' TO 6')	
STANDARD DWG. NO. MA-WSF-05	
DATE Sept. 2009	SHEET 1 OF 1

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

Date \_\_\_\_\_  
 Designed \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_



Project Name \_\_\_\_\_  
 Drawing Name MA-WSF-05  
 Sheet \_\_\_\_\_ of \_\_\_\_\_