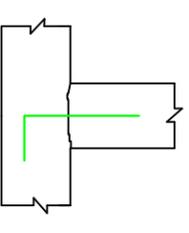
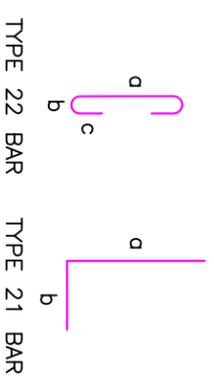


STEEL SCHEDULE

MARK	SIZE	QUANTITY	TYPE	a	b	c	LENGTH	TOTAL LENGTH
A	4	4	21	4'-5"	0'-8"	-	5'-1"	
B	4	4	Straight	-	-	-	6'-3"	
C	4	4	Straight	-	-	-		
D	5	4	Straight	-	-	-	3'-8"	
E	4	4	Straight	-	-	-	2'-3"	
K	4	4	22	1'-2 1/2"	0'-2 1/4"	0'-4"	8'-0"	
L	5	5	21	4'-0"	4'-0"	-	3'-8"	
M	4	4	Straight	-	-	-		

#4 BARS, TOTAL LENGTH = _____ LBS
 #5 BARS, TOTAL LENGTH = _____ 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"



CONSTRUCTION JOINT DETAIL
 NOT TO SCALE

WALL DESIGN LOADING

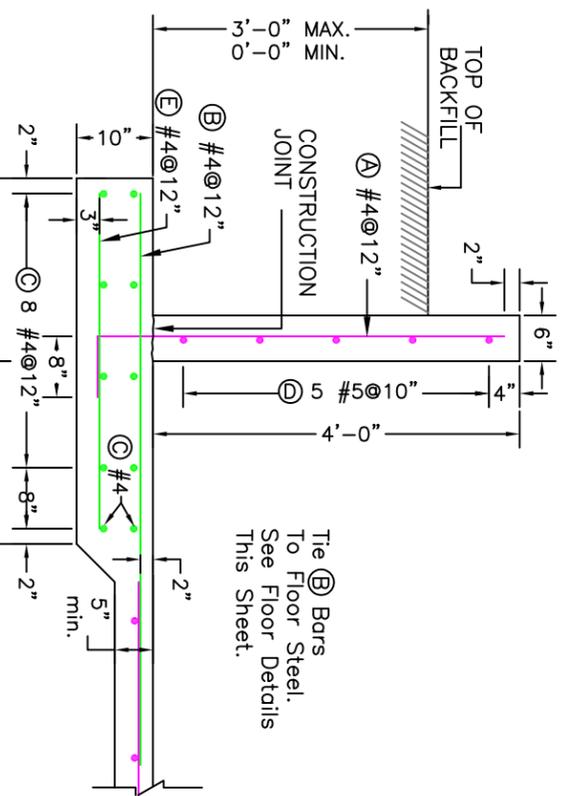
- * MANURE LOADING = 65 pcf
- * BACKFILL: GRANULAR, NON-COHESIVE
- * DENSITY = 120 pcf, $\phi = 30^\circ$
- * SURCHARGE = 2' OF BACKFILL EQUIVALENT (120 psf EFP REPRESENTING MACHINERY LOAD ON SOIL)

CONSTRUCTION

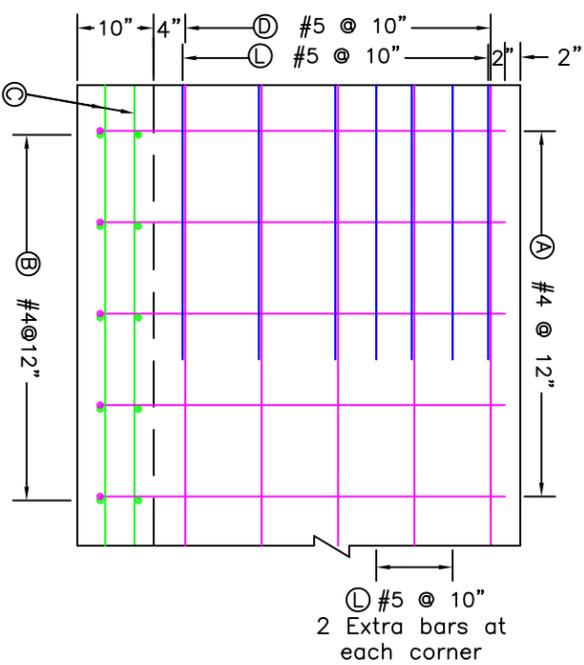
- * WALL CORNER IS OPTIONAL.
- * UNLESS OTHERWISE SHOWN, PROVIDE A MINIMUM OF 2" OF CONCRETE COVER OVER ALL STEEL.
- * DRAINAGE SHALL BE DIRECTED AWAY FROM THE WALL.
- * THE TOP WIDTH OF THE BACKFILL AROUND THE WALL SHALL BE AT LEAST 2 TIMES THE BACKFILL HEIGHT.

CONDITIONS OF USE

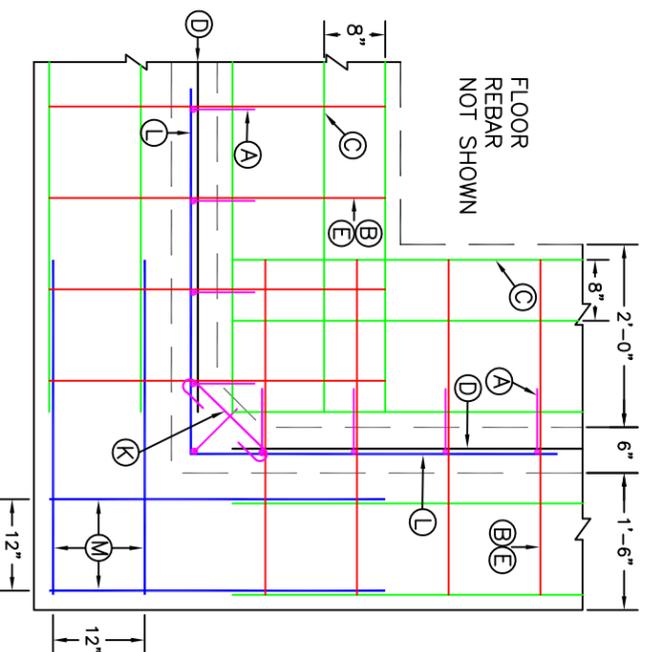
- * NOT TO BE USED FOR WASTE STORAGE FACILITIES. THIS DRAWING IS TO BE USED FOR HUA BUCKWALLS ONLY.
- * STANDARD DRAWING - DESIGNER MUST ENSURE THE APPLICATION OF THIS DRAWING MEETS THE ASSUMPTIONS OF THE DESIGN AS STATED.
- * BACKFILL HEIGHT - 0' to 3'
- * FOOTING MUST BE RESTRAINED WITH A FLOOR SLAB.
- * 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
- * SLAB REINFORCING SHALL BE IN ACCORDANCE WITH ACI 360R-92(97), "DESIGN OF SLABS ON GRADE", 1997.



SECTION
 SCALE 1/2" = 1'



CORNER ELEVATION
 SCALE 1/2" = 1'



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

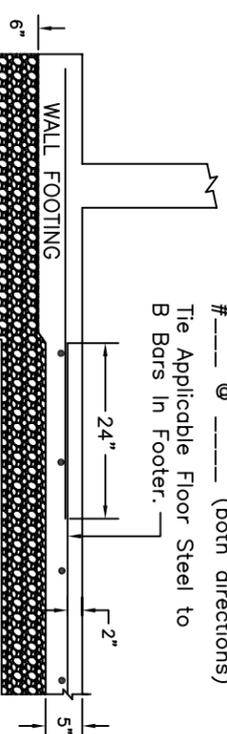
- Ⓚ - 7 Bars per corner
- Ⓛ - 7 Bars per corner
- Ⓜ - 8 Bars per corner
- ⓐ - 1 Extra Bar per corner

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

HUA BUCKWALL

4' HIGH "TEE" WALL
 PARTIAL BACKFILL (0 TO 3 FEET)
 STANDARD DWG. NO. MA-HUA-1

DATE _____ SHEET _____ OF _____



FLOOR DETAILS
 NOT TO SCALE



United States Department of Agriculture

Natural Resources Conservation Service

STANDARD DRAWING
 4' HIGH HUA BUCKWALL
 PARTIAL BACKFILL (0 TO 3 FEET)
 HEAVY USE AREA BUCKWALL

Date	_____
Designed	_____
Drawn	_____
Checked	_____
Approved	_____

Project Name
 Drawing Name
 MA-HUA-1
 Sheet _____ of _____