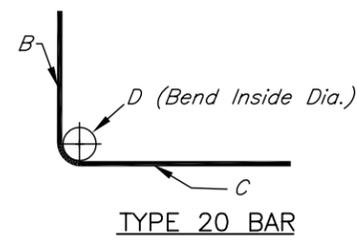


STEEL SCHEDULE

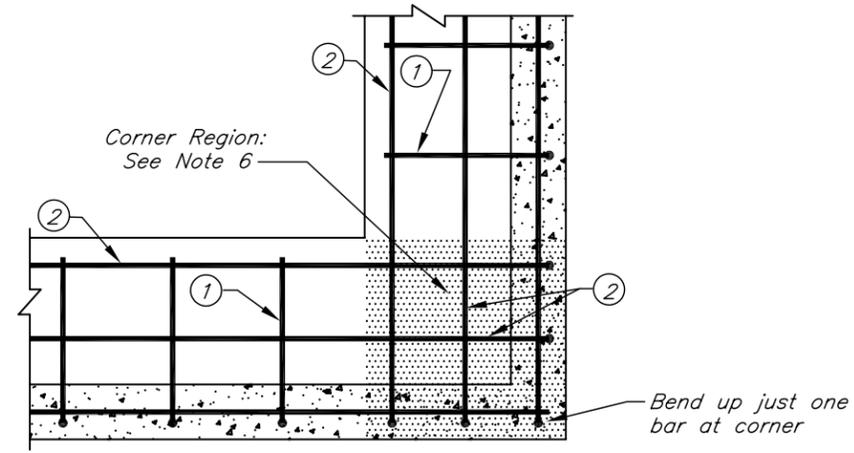
MARK	SIZE	QUANTITY	TYPE	B	C	LENGTH	TOTAL LENGTH
①	#4	20		1'-2"	1'-4"	2'-6"	
②	#4	STR		---	---		
③	#4	STR		---	---		
④	#4	20		2'-0"	2'-0"	4'-0"	
#4 Bars Total Length							



STEEL DETAILS

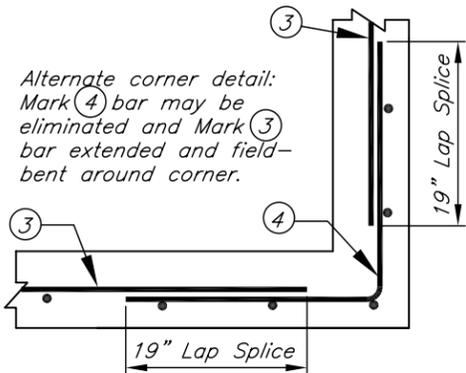
BAR SIZE	INSIDE BEND DIAMETER (D) INCHES	LONGITUDINAL STEEL LAP SPLICE LENGTH, INCHES (MIN.)	
		Wall bars	Footing bars
#4	3	19	16

Total length of wall (measured along ϕ wall) = _____ ft.



FOOTING SLAB CORNER DETAIL (PLAN VIEW)

NOT TO SCALE



WALL CORNER DETAIL (PLAN VIEW)

ESTIMATED QUANTITIES

CONCRETE (0.062 CU.YD./FT OF WALL)=_____ CU.YD.
STEEL #4 BARS (0.668 LB./FT.)=_____ LB.

Steel quantity include splice lengths? Y___ N___

CONDITIONS OF USE

Allowable backfill height = 0 to 1 ft
 Soil backfill type = low to medium PI silts and clays, 50% or more fines
 Water table below footing
 Machinery surcharge load NOT allowed
 Not designed to support buildings or roofs

MATERIALS

Concrete compressive strength = 4,000 psi
 Reinforcing steel may be Grade 40 or 60.
 Concrete and reinforcing steel shall meet requirements of Construction Specification IA-31.

WALL DESIGN LOADINGS

Manure load inside = 65 psf/ft EFP (Equivalent Fluid Pressure)
 Soil backfill density = 110 pcf
 Soil backfill load = 85 psf/ft EFP

WALL SLIDING RESTRAINT REQUIREMENTS

Assumptions:
 5-inch thick floor slab, factor of safety against sliding 1.5.
 Coefficient of friction (soil/concrete) = 0.25 (wet, medium to dense clay foundation)
 No surcharge

Backfill Height, ft.	Min. Floor Slab Length, ft.*
1	8
0	0

* Min. floor slab length for restraint is not required if L-wall forms a tank with opposing wall having approximately the same backfill height.

GENERAL DESIGN NOTES

- Design loadings and soil pressures based upon criteria found in Conservation Practice Standard 313 (Waste Storage Facility).
- Drainage shall be away from the wall.
- Backfill to top of wall is recommended for frost protection.
- Mark ② and ③ bars shall extend to 2 to 3 inches from edge of concrete at ends of straight wall sections.
- Mark ① bars shall be placed a maximum of 6 inches from wall end.
- Footing slab reinforcement at corners (see detail): extend Mark ② (longitudinal) bars into Corner Region from both sides of corner and bend to extend vertically up into wall same distance as Mark ① bars. Discontinue Mark ① bars in Corner Region.
- Construction joint, if used, shall be completed as described in Construction Specification IA-31. Surface of construction joint shall be roughened to approximately 1/4" depth. Or, slab and wall may be poured at the same time, eliminating the need for a construction joint.

Date	07/08
Designed	JGibbs
Drawn	
Checked	
Approved	

1'-FT HIGH REINFORCED CONCRETE "L" WALL
 0' TO 1' CL BACKFILL, NO SURCHARGE
 6" WALL THICKNESS



File No. IA-1661.dwg

Drawing No. _____

Sheet of _____