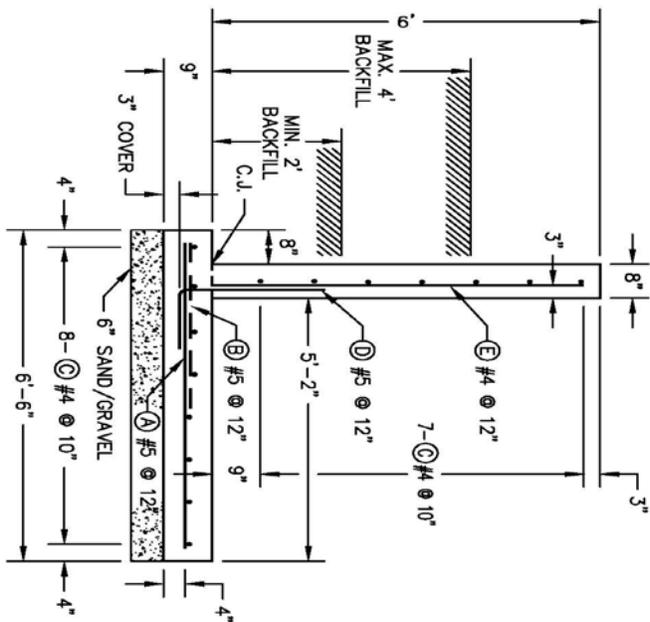


PA-022A 6' high, 8" L-wall (with backfill 2-4 ft without surcharge)
Standard Drawings Folder



NOTE: PLACE ⓑ BAR AT 6" SPACING FROM ⓐ BAR.



STEEL SCHEDULE

MARK	SIZE	QUAN	TYPE	R	S	LENGTH	TOTAL LENGTH
A	5		SIR	---	---	6'-0"	
B	5		SIR	---	---	3'-3"	
C	4		SIR	---	---	---	
D	5	2	2-3"	1'-0"	3'-3"	---	
E	4		SIR	---	---	5'-9"	
L	4	2	2'-0"	9"	2'-9"	---	
L1	4		SIR	---	---	5'-9"	

ESTIMATED QUANTITIES	
CONCRETE (0.33 CU.YDS./LIN.FT.)	_____ CU. YDS.
STEEL #4 (21.8 FT./LIN. FT.)	_____ FT.
STEEL #5 (12.5 FT./LIN. FT.)	_____ FT.
STEEL (61.3 FT./CORNER)	_____ FT.

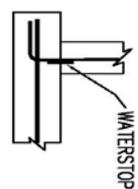
TOTAL LENGTH OF WALL _____ FT.

- NOTES:
1. A 2-FOOT MINIMUM OF BACKFILL IS REQUIRED.
2. DIMENSIONS ARE TO THE REINFORCING BAR SURFACE.

C.L. = CONSTRUCTION JOINT

LIQUID-TIGHT JOINT — YES — NO

- LIQUID-TIGHT JOINT OPTIONS
1) NON-METALLIC WATERSTOP (PVC)
2) HYDROPHILIC WATERSTOP



- CONSTRUCTION JOINT OPTIONS
- IF SLAB AND WALL ARE POURED SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT OF NEW CONCRETE.
 - THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.

6-FOOT WALL CORNER DETAILS SEE PA-027A
SLAB CORNER DETAILS SEE PA-023
RESTRAINING SLAB OPTIONS SEE PA-024

GENERAL DESIGN NOTES:

- DRAINAGE SHALL BE AWAY FROM THE WALL.
- THE MINIMUM TOP WIDTH OF THE BACKFILL AGAINST THE WALL SHALL BE EQUAL TO OR GREATER THAN THE BACKFILL HEIGHT.
- MAXIMUM FOOTING CONTACT PRESSURE IS 1080 psf/ft.

DESIGN STRENGTHS: WORKING STRESS DESIGN

CONCRETE $f'_c = 4,000$ psi STEEL $f_s = 20,000$ psi (GRADE 40)

WALL DESIGN LOADING: 313 STANDARD - LATERAL EARTH PRESSURE VALUES, SEE SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE.

- MANURE LOAD INSIDE = 65 psf/ft.
- SOIL BACKFILL LOAD OUTSIDE = 60 psf/ft.
- NO HORIZONTAL SURCHARGE ADDED.
- SOIL BACKFILL DENSITY = 110 pcf.
- WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

WALL RESTRAINT REQUIREMENTS:

• 5" THICK SLAB, SAFETY FACTOR AGAINST SLIDING 1.5 MIN.

BACKFILL HEIGHT (OUTSIDE LOAD)	SLAB LENGTH (NO INSIDE LOAD)	SLAB LENGTH (FULL INSIDE LOAD)
4 FEET	7 FEET	NO SLAB
3 FEET	NO SLAB	2 FEET **
2 FEET	NO SLAB	2 FEET **

** MINIMUM SLAB LENGTH OF 2 FEET REQUIRED AND MUST BE TIED INTO THE WALL FOOTING.

SLAB POURED WITH WALL FOOTING:
#3 BARS @ 18" SPACING (MINIMUM REINFORCEMENT)
SLAB NOT POURED WITH WALL FOOTING:
#3 DWEL BARS - 3'-0" LENGTH @ 7'-0" SPACING.

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WISCONSIN 53717-2906

(ADAPTED FROM W-560, APRIL 2005)



_____ COUNTY, PENNSYLVANIA
6' HIGH, 8" L-WALL (BACKFILL 2-4 FT. W/O SURCHARGE)

Drawn	TJA	Date	06/28/05
Checked			
Approved by			

PA-022A
06/27/05 12:49
PA-022A