PA-018B 2’ high, 6” L-wall (without surcharge)
Standard Drawings Folder

C.J. = CONSTRUCTION JOINT

LIQUID-TIGHT JOINT ___ YES ___ NO

LIQUID-TIGHT JOINT OPTIONS

1) NON-METALIC WATERSTOP (PVC)
2) HYDROPHILIC WATERSTOP

CONSTRUCTION JOINT OPTIONS

1. 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.
2. THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.

WALL CORNER DETAIL (PLAN VIEW)

SLAB CORNER DETAILS	
RESTRAINING SLAB OPTIONS	SEE PA-023
	SEE PA-024

ESTIMATED QUANTITIES

CONCRETE (0.1049 CU.YDS./LIN.FT.)	____CU.YDS.
STEEL #4 (0.668 LBS./FT)	____LBS.

- CONCRETE SHALL MEET PA 313 OR 561 SPECIFICATION REQUIREMENTS.
- SUBSTITUTION OF GRADE 60 BARS IS PERMITTED.
- MINIMUM SPLICE LENGTH FOR MARK Ⓑ AND © BARS IS 12"
- STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.

TYPE 2 BAR

TOTAL LENGTH OF WALL ____FT.

STEEL SCHEDULE

MARK	SIZE	QUAN	TYPE	R	S	LENGTH	TOTAL LENGTH
A	4		2	2'-3"	2'-3"	4'-6"	
B	4		STR	----	----		
C	4		STR	----	----		
L	4		2	2'-0"	2'-0"	4'-0"	
#4 BARS, TOTAL LENGTH							

GENERAL DESIGN NOTES:

- DRAINAGE SHALL BE AWAY FROM THE WALL.
- THE MINIMUM WIDTH OF THE BACKFILL AGAINST THE WALL SHALL BE EQUAL TO OR GREATER THAN THE BACKFILL HEIGHT.
- MAXIMUM FOOTING CONTACT PRESSURE IS 500 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 = 75 psf/ft.
- NO SURCHARGE LOAD
- 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
2 FEET	7 FEET	NO SLAB
1 FOOT	NO SLAB	NO SLAB
0 FEET	NO SLAB	NO SLAB

NOTES:

1. DIMENSIONS ARE TO THE REINFORCING BAR SURFACE UNLESS OTHERWISE NOTED.
2. BACKFILL TO THE TOP OF THE WALL IS RECOMMENDED FOR FROST PROTECTION.

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

(ADAPTED FROM WI-521, APRIL 2005)

Date: 06/23/05
Drawn: TJA

NRCS Natural Resources Conservation Service, United States Department of Agriculture

_____ COUNTY, PENNSYLVANIA

2' HIGH, 6" L-WALL (W/O SURCHARGE)

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