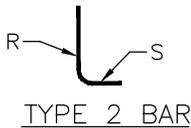
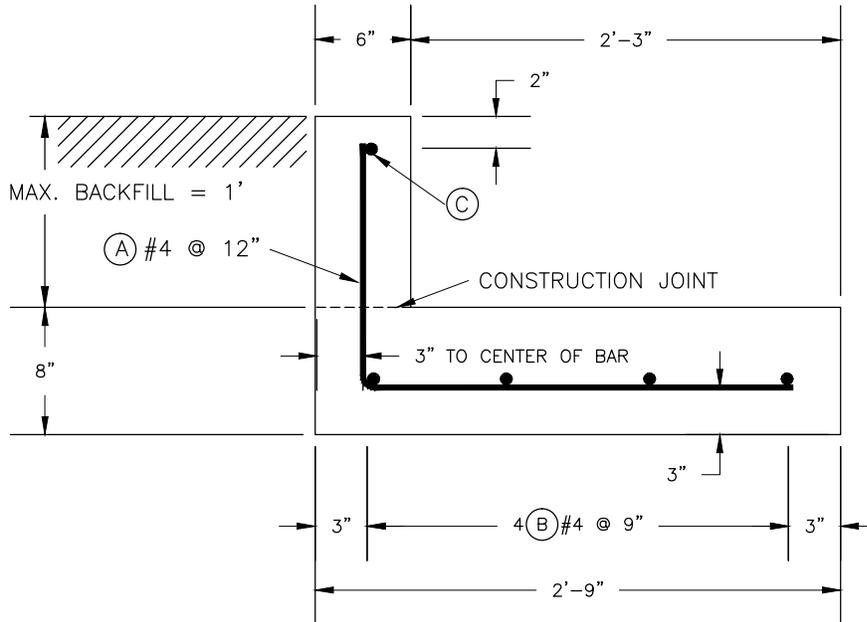


CONDITIONS OF USE
 BACKFILL = 0 TO 1 FOOT
 SURCHARGE = 120 psf
 SOIL EFP = 60 OR 75

TOTAL LENGTH OF WALL _____ FT.



SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

STEEL SCHEDULE

ESTIMATED QUANTITIES

MARK	SIZE	QUAN	TYPE	R	S	LENGTH	TOTAL LENGTH
A	4		2	2'-3"	1'-3"	3'-6"	
B	4		STR	---	---		
C	4		STR	---	---		
L	4		2	2'-0"	2'-0"	4'-0"	
#4 BARS, TOTAL LENGTH							

CONCRETE (0.086 CU.YDS./LIN.FT.) _____ CU.YDS.
 STEEL #4 (0.668 LBS./FT) _____ LBS.

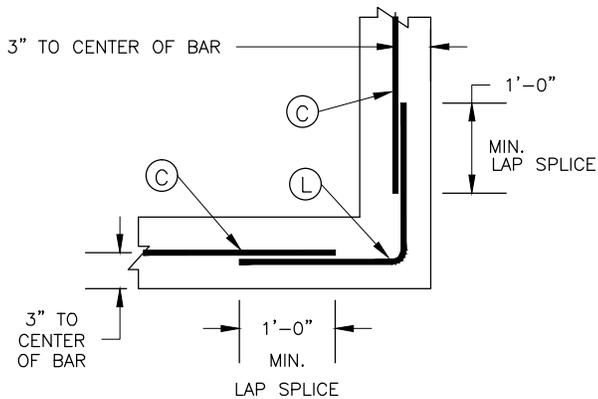
- CONCRETE WILL MEET WISCONSIN SPEC 4 REQUIREMENTS.
- SUBSTITUTION OF GRADE 60 BARS IS PERMITTED.
- MINIMUM SPLICE LENGTH FOR MARK (B) AND (C) BARS IS 12"
- STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.

MARK L BARS NOT SHOWN – SEE WALL CORNER DETAILS ON REVERSE SIDE.

NOTES:

1. CONSTRUCTION JOINT OPTIONS – SEE REVERSE SIDE.
2. DIMENSIONS ARE TO THE REINFORCING BAR SURFACE UNLESS OTHERWISE NOTED.
3. FOR RESTRAINING SLAB REQUIREMENTS – SEE REVERSE SIDE.
4. BACKFILL TO THE TOP OF THE WALL IS RECOMMENDED FOR FROST PROTECTION.

CORNER DETAIL (PLAN VIEW)



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.

SLAB CORNER DETAILS	SEE WI-571
RESTRAINING SLAB OPTIONS	SEE WI-570

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 240 psf/ft.

DESIGN STRENGTHS: WORKING STRESS DESIGN

- CONCRETE $f'_c = 3,500$ psi
- STEEL $f_s = 20,000$ psi (GRADE 40)
- $f_c = 1,400$ psi

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 or 75 psf/ft.
- SURCHARGE LOAD = 120 psf
- SOIL BACKFILL DENSITY = 110 pcf.

WALL RESTRAINT REQUIREMENTS:

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

<u>BACKFILL HEIGHT (OUTSIDE LOAD)</u>	<u>SLAB LENGTH NO INSIDE LOAD</u>		<u>SLAB LENGTH FULL INSIDE LOAD</u>
	<u>EFP=60</u>	<u>EFP=75</u>	
1 FOOT	9 FEET	10 FEET	NO SLAB
0 FEET	NO SLAB	NO SLAB	NO SLAB

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, SUITE 200 MADISON, WI 53717-2906