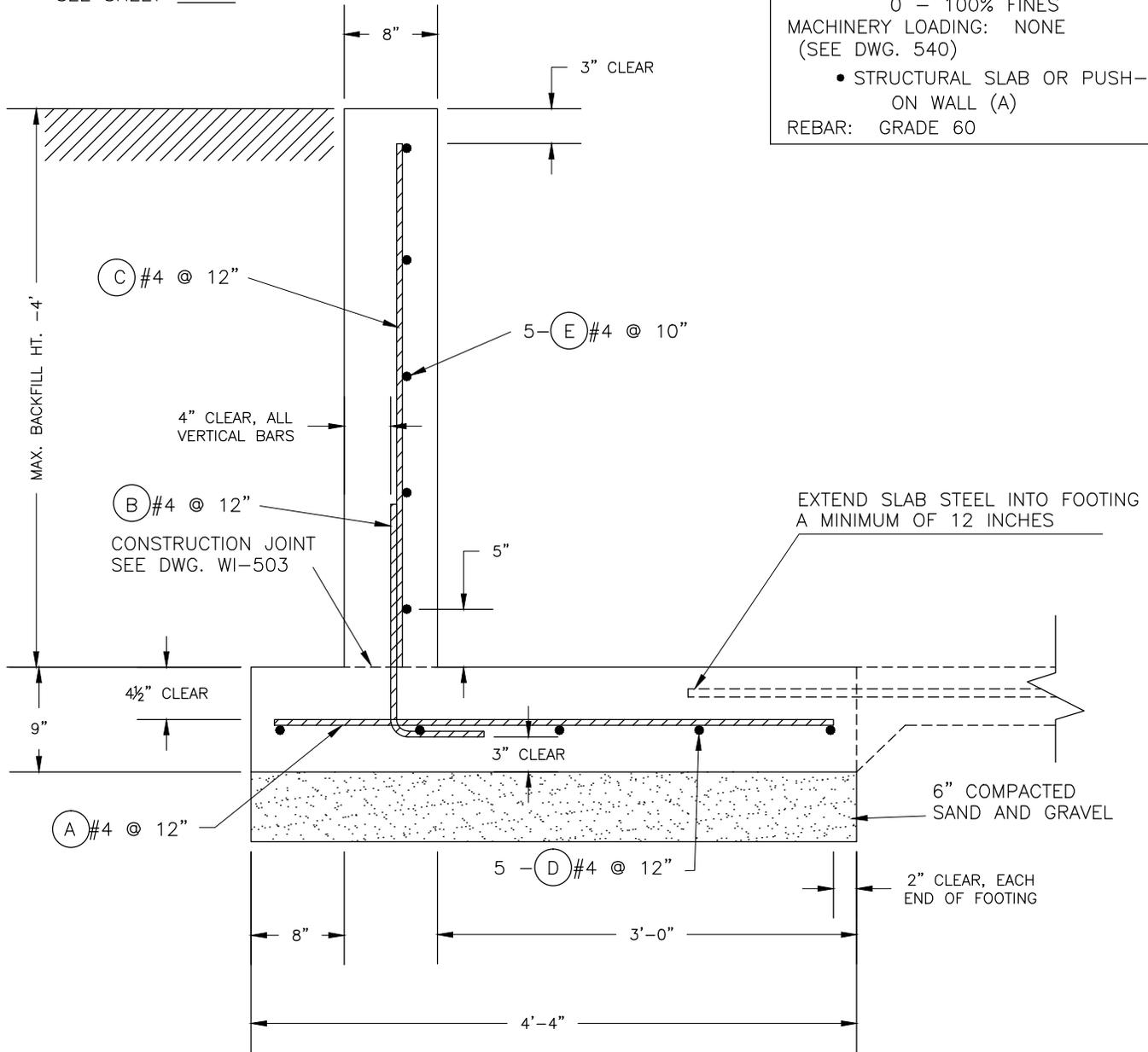


BACKFILL DETAILS
SEE SHEET _____

CONDITIONS OF USE

BACKFILL: 0 TO 4 FEET
0 - 100% FINES
MACHINERY LOADING: NONE
(SEE DWG. 540)
• STRUCTURAL SLAB OR PUSH-OFF
ON WALL (A)
REBAR: GRADE 60



WALL SECTION

MATERIALS

CONCRETE & REBAR: WI CONST SPEC 4
SAND/GRAVEL: WI CONST SPEC 4
BACKFILL: WI CONST SPEC 204
BACKFILL SOURCE:
____ EXCAVATION OF WALL AREA
____ BORROW SITE
____ IMPORTED MATERIALS

LINEAL FEET OF WALL _____



United States
Department of
Agriculture

Natural Resources
Conservation Service

4-FOOT L WALL

CLIENT: _____
COUNTY: _____

Designed _____
Date _____
Drawn _____
Checked _____
Approved _____

File Name
WI-542
Date
07/14
Sheet of

DESIGN VALUES

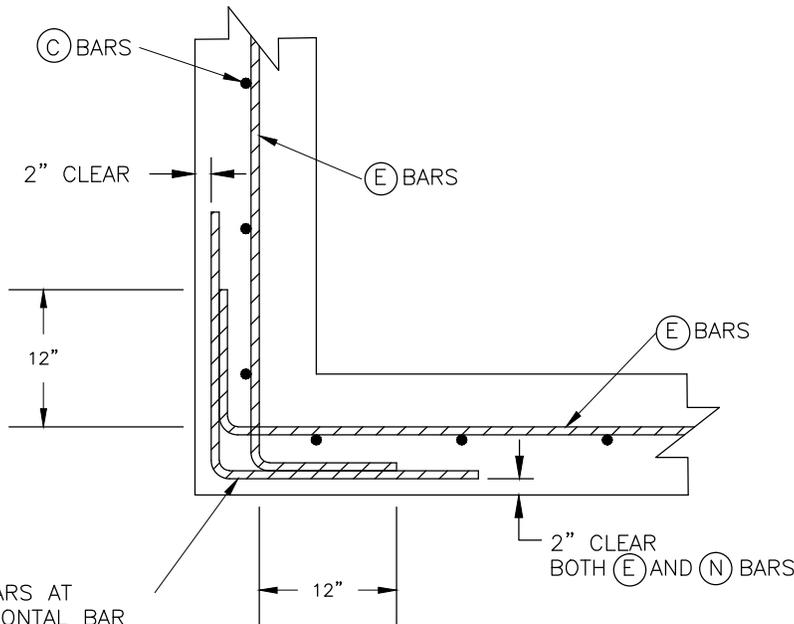
EARTH BACKFILL: 85 PSF/FT, EQUIVALENT FLUID PRESSURE
 110 PCF (SOIL WEIGHT) AND >50% FINES
 MANURE: 65 PSF/FT, EQUIVALENT FLUID PRESSURE
 MACHINERY LOADING: 0 PSF EQUIV. FLUID PRESSURE
 ULTIMATE STRENGTH DESIGN (ACI 318-99)
 CONCRETE STRENGTH: 3,500 PSI REBAR: GRADE 60
 COEFF. FRICTION (SOIL/CONCRETE) = 0.5
 MINIMUM SLIDING FACTOR OF SAFETY = 1.5
 WALL SLIDING RESTRAINT REQUIRED
 MINIMUM OVERTURNING FACTOR OF SAFETY = 2.0
 MIN. ALLOWABLE SUBGRADE BEARING CAPACITY = 2000 PSF
 VERTICAL WALL LOAD FOR SLABS BEARING ON WALL OR
 PUSHOFFS = 1000 LBS./FT.
 NOT DESIGNED TO SUPPORT BUILDINGS OR ROOFS

STEEL SCHEDULE (GRADE 60)

MARK	SIZE	TYPE	R	S	LENGTH
A	#4	STR	---	---	4'-0"
B	#4	2	1'-8"	8"	2'-4"
C	#4	STR	---	---	3'-9"
D	#4	STR	---	---	
E	#4	STR	---	---	
N	#4	2	2'-0"	2'-0"	4'-0"

STEEL DETAILS

BAR SIZE	BEND DIAMETER (D) INCHES	SPLICE LENGTH INCHES (MIN.) *
#4	3	16



PLACE (N) BARS AT EACH HORIZONTAL BAR IN TOP 2' OF WALL ONLY (3 N BARS PER CORNER TOTAL)

CORNER BAR SCHEMATIC

PLAN VIEW - TOP 2 FEET OF WALL SHOWN

CORNER NOTES:

1. PLACE FIRST VERTICAL BAR AT WALL CORNER OR NO FURTHER THAN ONE-HALF BAR SPACING FROM THE INSIDE CORNER.
2. HOOK CAN BE SEPARATE FROM (E) BARS, PROVIDED THAT MINIMUM LAP SPLICE OF 16" FOR #4 BARS IS MET.
3. SEE WALL SECTION FOR EXACT LOCATIONS OF (C) AND (E) BARS.