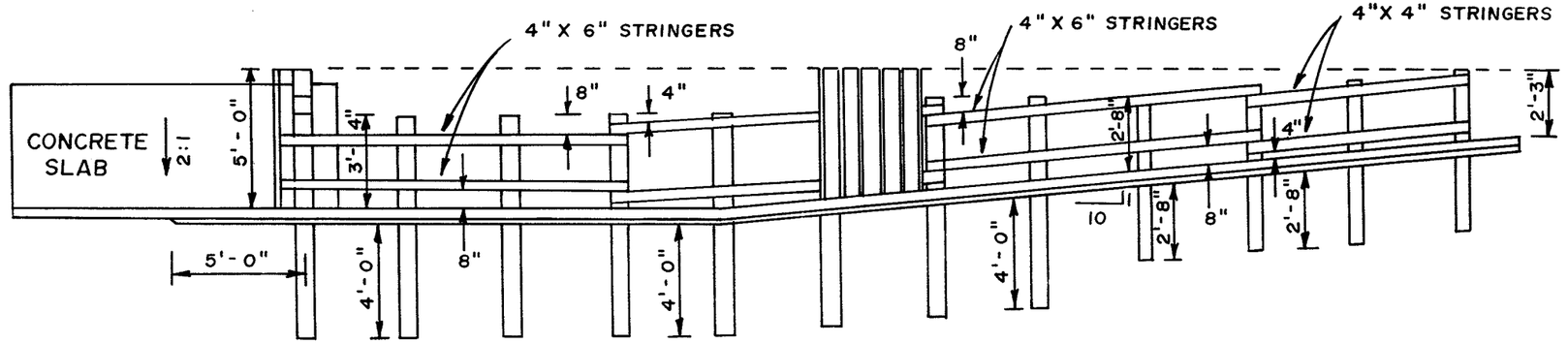
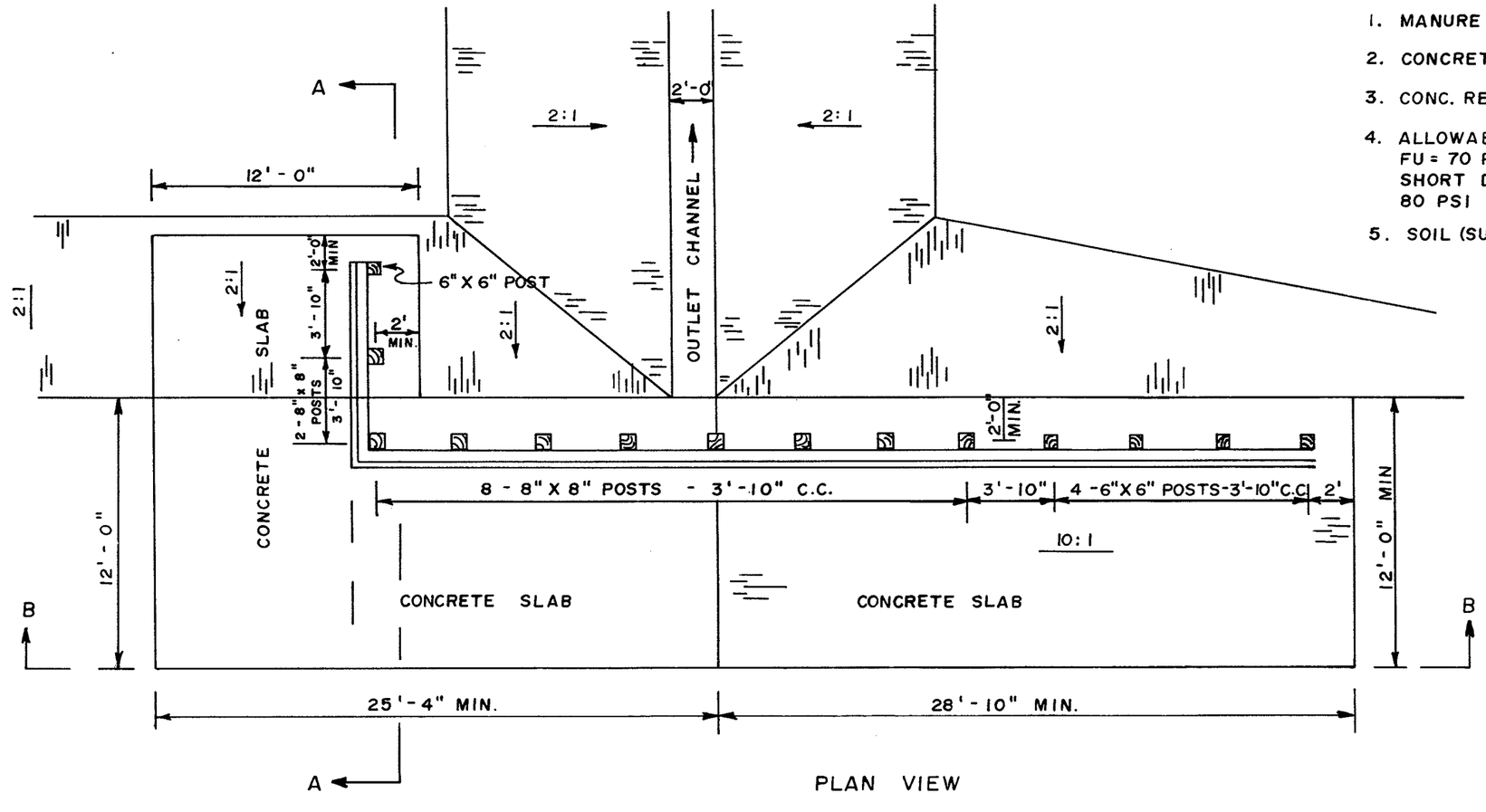
MATERIALS LIST

1.	SHEETING (2" x 6") (ASSUMES ¾" SPACING, 19 PCS 10' AND 35 PCS 8')	438 BD. FT.
2.	POSTS 6" x 6" x 6'-0"	5 EA.
3.	POSTS 8" x 8" x 8'-0"	9 EA.
4.	STRINGERS 4" x 6" x 12'-0"	6 EA.
5.	STRINGERS 4" x 6" x 8'-0"	2 EA.
6.	STRINGERS 4" x 4" x 8'-0"	2 EA.
7.	⅜" BOLTS 14" LONG	22 EA.
8.	⅜" BOLTS 12" LONG	6 EA.
9.	⅜" BOLTS 10" LONG	6 EA.
10.	30 D COMMON NAILS	20 LBS.
11.	#3 REBAR	405.5 LIN. FT.
12.	6" x 6" - 10 x 10 WELDED WIRE MESH	750 SQ. FT.
13.	CONCRETE	16 CU. YD.



ELEVATION B-B



PLAN VIEW

DESIGN VALUES USED

1. MANURE - EQUIVALENT FLUID PRESSURE = 60 PSF
2. CONCRETE - 3000 PSI
3. CONC. REINF. STEEL - FS = 20,000 PSI (WORKING STRESS)
4. ALLOWABLE TIMBER STRESSES, FB = 900 PSI. FU = 70 PSI, (BOTH VALUES INCREASED 10 % FOR SHORT DURATION AND ROUNDED UPWARD TO 1000, 80 PSI RESPECTIVELY.)
5. SOIL (SUBMERGED) UNIT WEIGHT 65 PCF.

PICKETT DAM DETAILS
(FOR ANIMAL WASTE)

NOT TO SCALE

MICHIGAN ENGINEERING STANDARD DRAWING		
APPROVED BY H.W. Belcher, S.C.E.	DATE 12/21/82	
DRAWING NO SO-N-0432	SHEET 1 OF 2	

RE-DESIGN 7-82

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed	Date	Approved by
Drawn		Title
Traced		Title
Checked		Sheet No. of / Drawing No.

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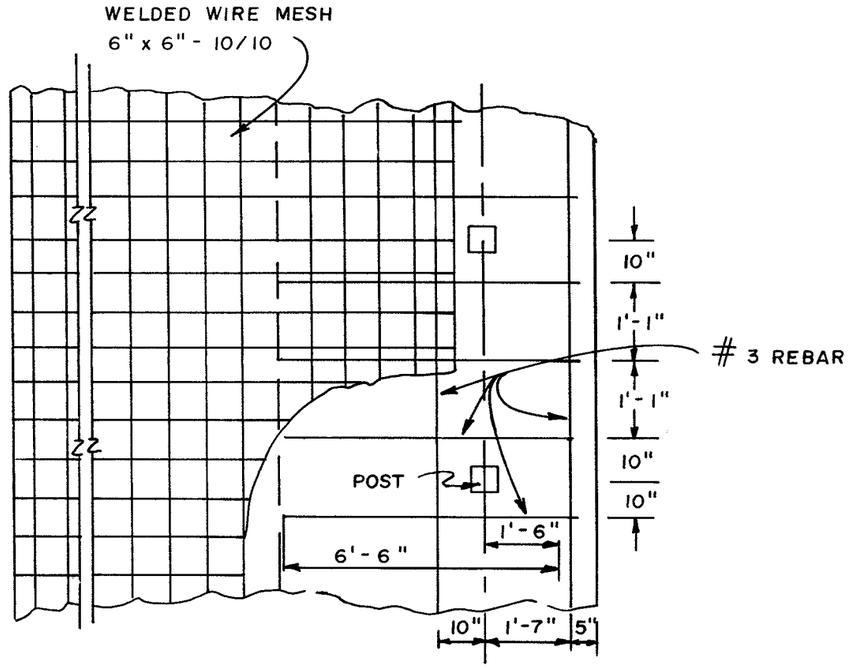
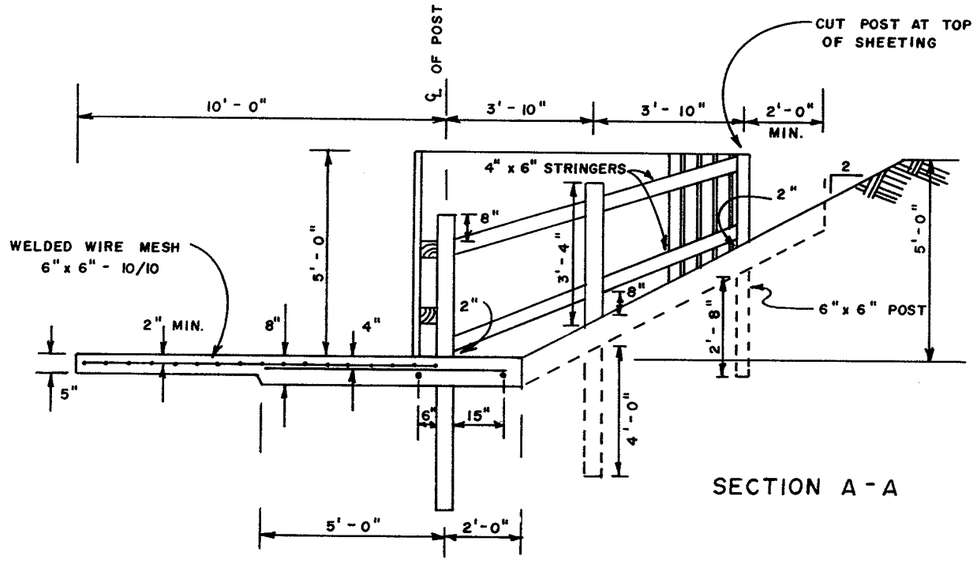
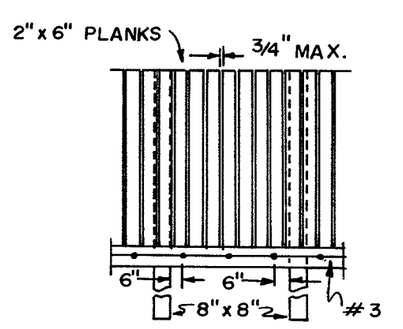
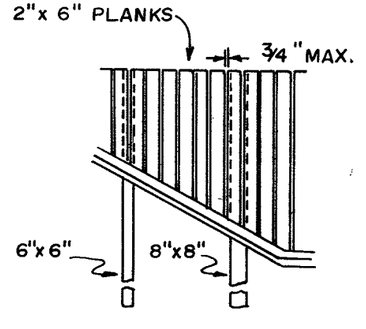




SECTION A-A



SHEETING DETAIL B-B



SHEETING DETAIL C-C

NOTES

1. ALL TIMBER MATERIALS SHALL BE NO. 2 OR BETTER SOUTHERN YELLOW PINE, RED PINE OR OAK. IT SHALL BE PRESSURE TREATED WITH PRESERVATIVE ACCORDING TO FEDERAL SPEC. TT-W-571i AND SHALL HAVE A NET RETENTION OF AT LEAST 0.4 PCF FOR WATER-BORNE PRESERVATIVES, 0.5 PCF FOR PENTACHLOROPHENAL OR 10 PCF FOR CREOSOTE SOLUTIONS.
2. ROUND POSTS MAY BE SUBSTITUTED FOR RECTANGULAR POSTS IN THE FOLLOWING MANNER:
   8 ½" DIAMETER (OR LARGER) FOR 8" x 8" POSTS.
   6" DIAMETER (OR LARGER) FOR 6" x 6" POSTS.
3. ALL BACKFILL IN POST HOLES SHALL BE TAMPED VERY FIRMLY IN 4" LIFTS OR THE BACKFILL SHALL BE CONCRETE.
4. 4" x 6" STRINGERS SHALL BE INSTALLED "ON EDGE" WITH RESPECT TO THE WALL LOAD. THAT IS, WHEN THEY ARE IN PLACE, THEIR DIMENSIONS WILL BE 6" (NOM.) - HORIZONTAL, 4" (NOM.) - VERTICAL.

   ALL STRINGER SPLICES SHALL BE MADE WITH AN "OVER AND UNDER" LAP TO PROVIDE ADEQUATE BEARING AREA ON THE POSTS (STRINGER PIECES ASSUMED TO BE 12' LONG - POST SPACINGS ARE ADJUSTED ACCORDINGLY.)
5. STRINGERS SHALL BE ATTACHED TO POSTS WITH ⅜" BOLTS (MACHINE OR CARRIAGE) AND VERTICAL PLANKS SHALL BE ATTACHED TO STRINGERS BY AT LEAST TWO 30d NAILS. ALL BOLTS AND HARDWARE SHALL BE GALVANIZED.
6. CONCRETE WORK SHALL INCLUDE
   A. 28 DAY COMPRESSIVE STRENGTH - 3000 PSI MINIMUM.
   B. REINFORCING BARS - # 3 OR LARGER.
   C. REINFORCING BAR SPLICES - LAPS OF 12" OR MORE.
   D. WELDED WIRE MESH SPLICES - ONE COMPLETE MESH.

NOT TO SCALE

PICKETT DAM DETAILS
(FOR ANIMAL WASTE)

MICHIGAN ENGINEERING STANDARD DRAWING	
APPROVED BY H.W. Belcher, S.C.E.	DATE 12/21/82
DRAWING NO SO-N-0432	SHEET 2 OF 2

RE-DESIGN 7-82

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed — Date	Approved by — Title
Drawn	Title
Traced	Sheet No. of / Drawing No.
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