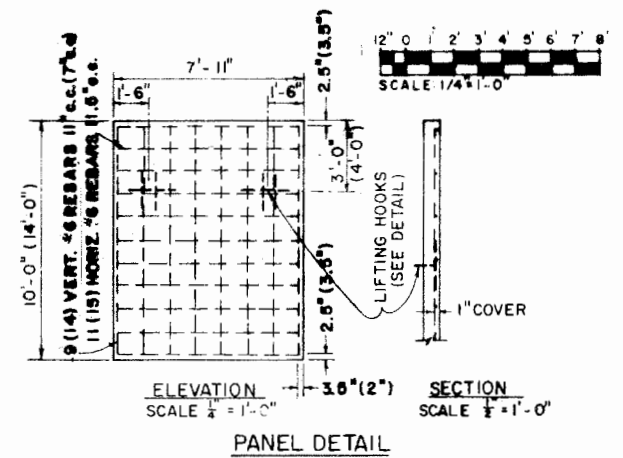
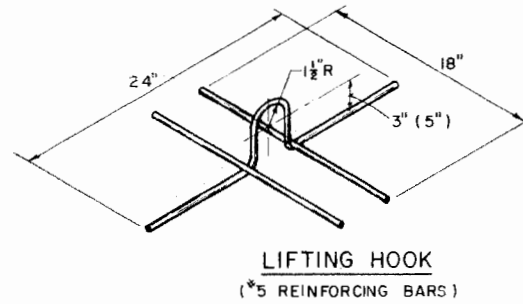
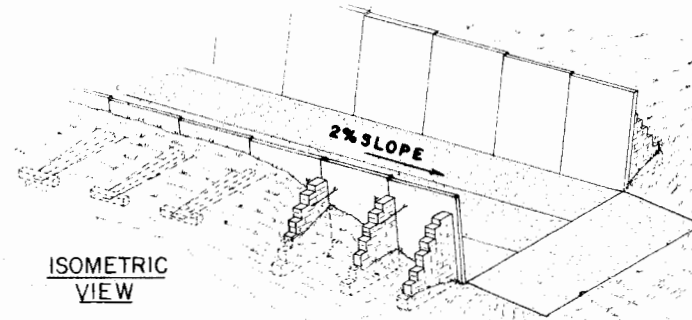


NOTES:

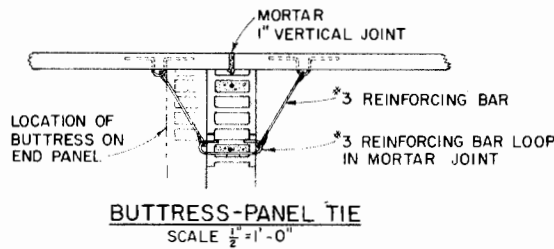
1. DIMENSIONS IN PARENTHESIS PERTAIN ONLY TO THE 14 FOOT HIGH PANEL.
2. SPECIFY MIN. 4000 PSI COMPRESSIVE STRENGTH CONCRETE, i.e. 6 GALLONS OF WATER PER SACK OF CEMENT, MIN. 7 SACKS OF CEMENT PER CU. YD. CONCRETE. USE 6% AIR ENTRAINMENT.
3. MINIMUM LAP FOR ALL REINFORCING SHALL BE 10"
4. CAST FLOOR IN LENGTHWISE STRIPS 10' WIDE.
5. USE POLYETHYLENE OR TREATED PAPER BOND BREAKER BETWEEN FLOOR & PANELS.
6. USE A VIBRATOR TO ELIMINATE VOIDS IN THE CONCRETE.
7. WET CURE PANELS 5 TO 7 DAYS BEFORE TILTING INTO PLACE.
APPROXIMATE PANEL WEIGHT (10 FT. - 3460 LBS.)
(14 FT. - 7630 LBS.)



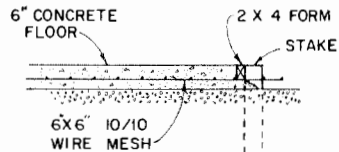
SILO CAPACITY - TONS/FT. OF LENGTH						
DEPTH	DENSITY	AVERAGE SILO WIDTH				
		20	30	40	50	60
10 FT.	40 ³ / _{FT.} ³	4	6	8	10	12
14 FT.	45 ³ / _{FT.} ³	6.3	9.4	12.6	15.8	18.9



ISOMETRIC VIEW

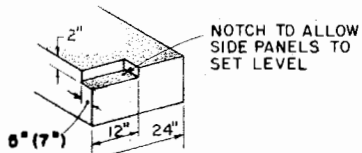


BUTTRESS-PANEL TIE
SCALE 1/2" = 1'-0"

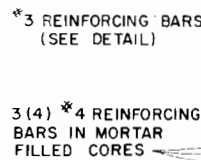
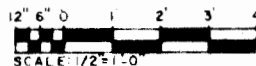


FORMING DETAIL FOR ADJOINING FLOOR STRIPS

SCALE 1/2" = 1'-0"



FOOTING DETAIL
SCALE 1/4" = 1'-0"



MORTAR CAP

12" x 24" WIDE CONC. FOOTING 8'-0" O.C.

MASONRY BLOCK BUTTRESS ABOVE GRADE & ENDS

CROWN FOR DRAINAGE & COVER WITH 4 MIL POLYETHYLENE & 2" OF GROUND LIMESTONE

12" x 8" x 16" CONCRETE BLOCK

HORIZONTAL REINFORCING BARS CLOSE TO OUTSIDE OF PANELS WHERE MORE THAN 50% OF PANEL IS ABOVE GRADE

FOOTING NOTCHED TO ALLOW FOR SLOPING FLOOR, SEE DETAIL

PANEL THICKNESS PLUS 1/2"

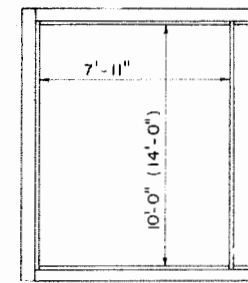
CROSS SECTION
SCALE 1/2" = 1'-0"

REINFORCING BARS CLOSE TO INSIDE

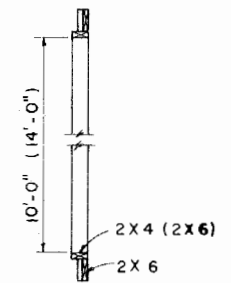
6" x 6" 10/10 WELDED WIRE MESH

6" CONC. FLOOR SLOPED 1/4" FT. OF LENGTH

TIMBER & REBAR ANCHOR BELOW GRADE



PLAN
SCALE 1/4" = 1'-0"



SECTION
SCALE 1/2" = 1'-0"

PANEL FORM

8" x 8" x 4' RAILROAD TIE OR OTHER PPT. TIMBER ANCHOR

2 STONE, 1/4" - 1/4"
6" x 6" x 6' RAILROAD TIE, 8'-0" O.C.
GALVANIZED CABLE WITH CLAMPS OR 3 REINFORCING BAR, 20' LONG INSERTED IN HOLES DRILLED IN ANCHOR AND BENT AROUND LIFTING HOOKS

BASED ON: CORNELL UNIV. PLAN NO. 838

LSU
AgCenter
Research & Extension

HORIZONTAL SILO
TILT-UP BELOW GRADE

N.Y. '73	EX. 6175	SHEET 1 OF 1	
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Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.