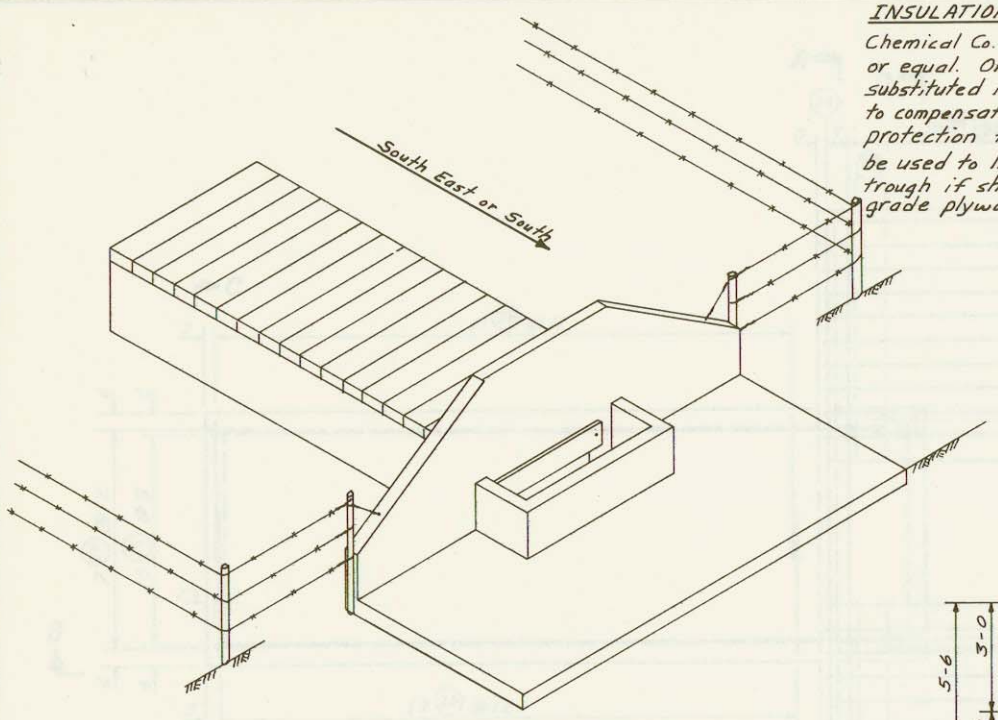
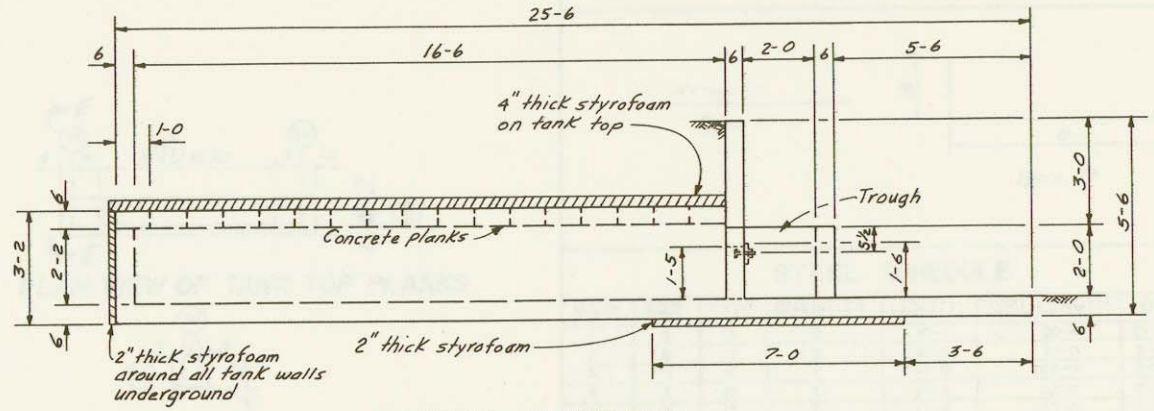


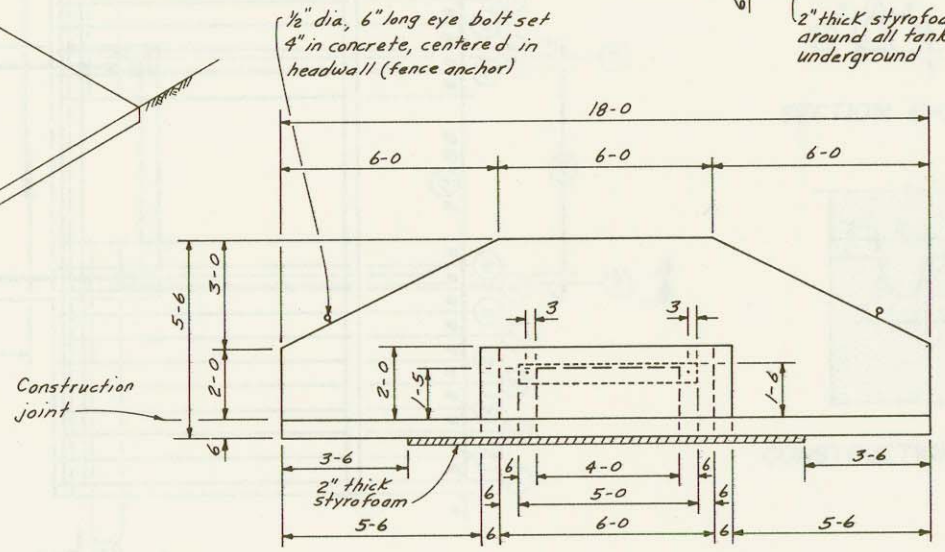
ISOMETERIC VIEW

1 0 1 2 3 4
Scale in feet

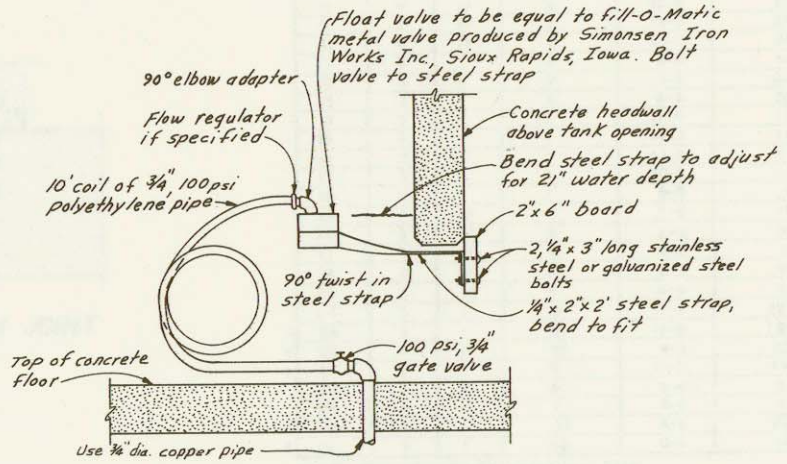
INSULATION NOTE: Use moisture resistant Dow Chemical Co. Styrofoam type TG or SM insulation or equal. Ordinary "styrofoam" beadboard may be substituted if insulation thicknesses are doubled to compensate for moisture absorbtion. For added protection the Dow product (or equal) may also be used to line the inside (or outside) of the trough if shielded by galvanized steel or exterior grade plywood.



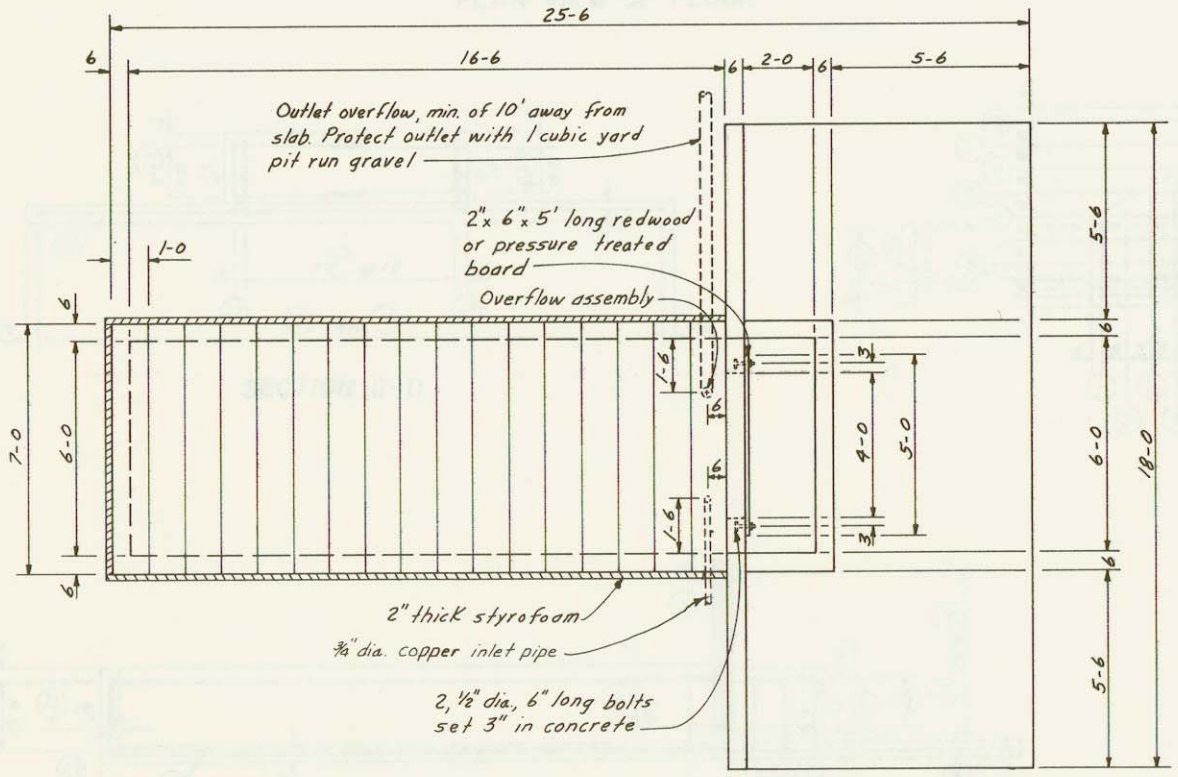
SIDEWALL ELEVATION



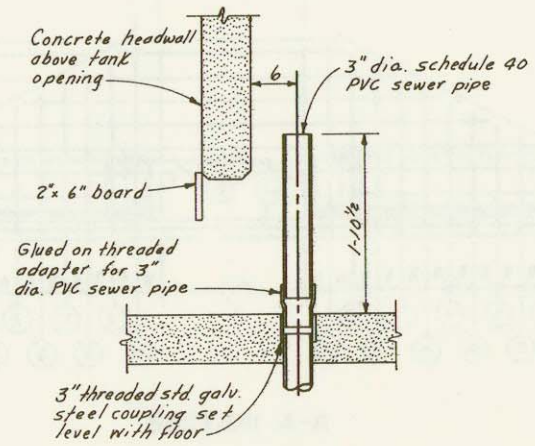
HEADWALL ELEVATION



FLOAT VALVE ASSEMBLY
(NOT TO SCALE)



PLAN VIEW



OVERFLOW ASSEMBLY
(NOT TO SCALE)

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
Excavation	Cu. Yds.	
Fill	Cu. Yds.	
Concrete	Cu. Yds.	10.4
Reinforcing steel	Lbs.	895
Fence	Lin. Ft.	
2" thick styrofoam, type TG or SM	Sq. Ft.	459
½" dia., 6" long bolts w/washers and nuts	Each	2
2"x 6"x 5' board	Each	1
Float valve assembly (Per detail)	Each	1
Overflow assembly (Per detail)	Each	1
½" dia., 6" long eye bolts	Each	2
¾" dia., copper pipe	Lin. Ft.	

JOB PLAN NO. 14.3

NOTES:

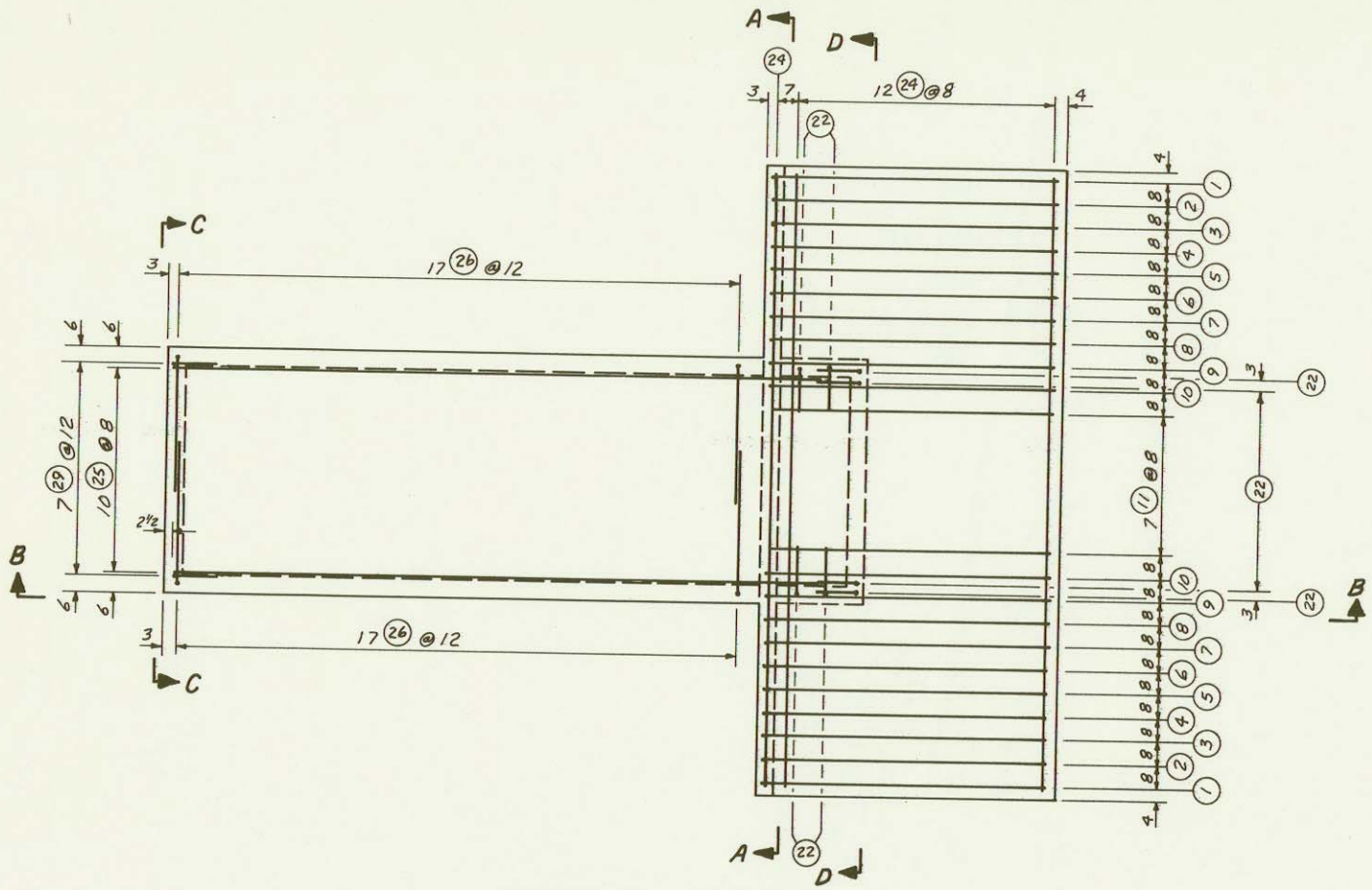
1. Bar dimensions are out to out of bar.
2. Radius of bends equals three bar diameters.
3. Chamfer all exposed concrete edges ¾".
4. Lap bar splices 30 bar diameters minimum.
5. The 2½" dimension from face of concrete to steel is clear distance.
6. For each foot of increase in tank length add 78.6 gallons of storage, 37.4 pounds of steel and 0.35 cubic yards of concrete.
7. Mound earth over top of tank a min. of 2' depth. No heavy equipment allowed on top of tank lid.
8. Fence tank completely to exclude livestock as per drawing.
9. Volume of tank as shown is approx. 1950 gallons.

1 0 1 2 3
Scale in feet
(Unless otherwise shown)

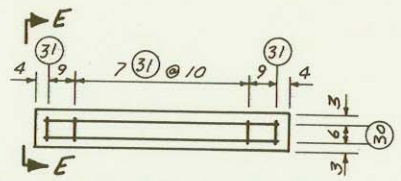
CONCRETE STOCKWATER STORAGE TANK

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

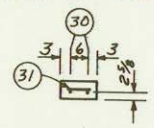
	Date		
Designed		Approved by	
Drawn		Title	
Traced		Title	
Checked		Sheet No 1 of 2	Drawing No.



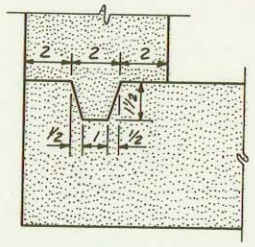
PLAN VIEW OF FLOOR



PLAN VIEW OF TANK TOP PLANKS

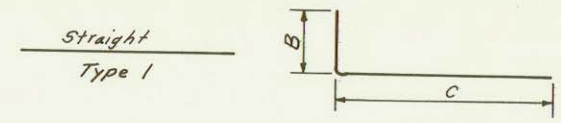


SECTION E-E



CONSTRUCTION JOINT

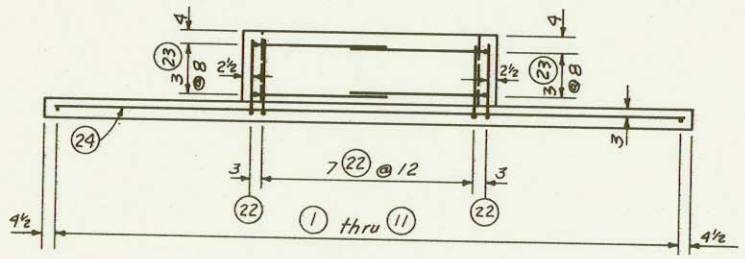
BAR TYPES



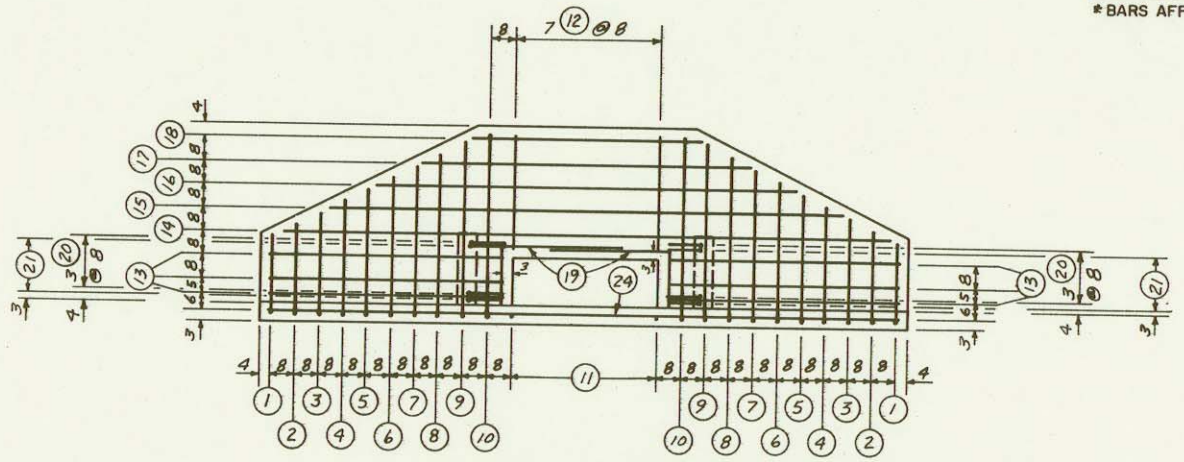
STEEL SCHEDULE

MARK	SIZE	TYPE	QUANTITY	LENGTH	TOTAL LENGTH	B	C
1	3	17	2	10-3	20-6	2-3	8-0
2	3	17	2	10-6	21-0	2-6	8-0
3	3	17	2	11-0	22-0	3-0	8-0
4	3	17	2	11-3	22-6	3-3	8-0
5	3	17	2	11-6	23-0	3-6	8-0
6	3	17	2	11-9	23-6	3-9	8-0
7	3	17	2	12-3	24-6	4-3	8-0
8	4	17	2	12-6	25-0	4-6	8-0
9	4	17	2	13-0	26-0	5-0	8-0
10	4	17	2	13-0	26-0	5-0	8-0
11	3	1	7	8-0	56-0		
12	3	1	7	3-3	22-9		
13	3	1	6	6-6	39-0		
14	3	1	1	17-0	17-0		
15	3	1	1	14-3	14-3		
16	3	1	1	11-9	11-9		
17	3	1	1	10-3	10-3		
18	3	1	1	6-3	6-3		
19	3	17	2	5-0	10-0	1-9	3-3
20	3	17	6	2-9	16-5	1-0	1-9
21	3	17	6	2-0	12-0	1-0	1-0
22	3	17	13	3-3	42-3	1-3	2-0
23	3	17	6	5-6	33-0	1-9	3-9
24	3	1	13	17-6	227-5		
25	3	1	10	18-6	185-0		
26	4	17	34	6-3	212-6	2-3	4-0
27	3	1	8	17-0	136-0		
28	3	17	6	5-0	30-0	1-0	4-0
29	4	17	7	3-6	24-6	1-3	2-3
30	5	1	34	6-6	221-0		
31	4	1	153	0-8	102-0		

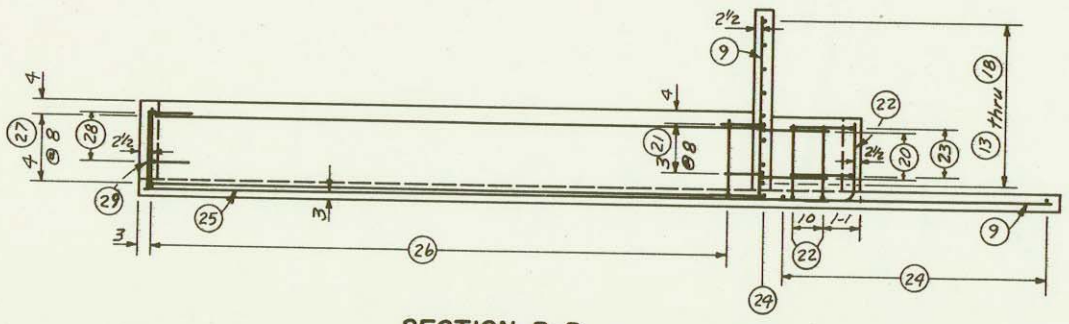
* BARS AFFECTED BY EXTENSION OF TANK



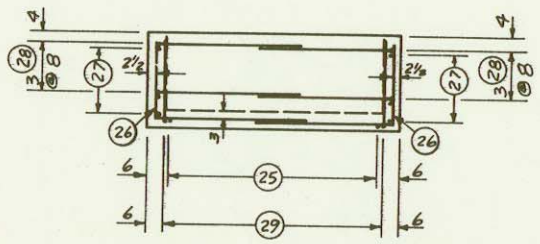
SECTION D-D



SECTION A-A



SECTION B-B



SECTION C-C

QUANTITIES

REINFORCING STEEL

NO. 3 BARS = 1,026'-6" = 386 LBS.
NO. 4 BARS = 416'-0" = 278 LBS.
NO. 5 BARS = 221'-0" = 231 LBS.
TOTAL = 895 LBS.

CONCRETE = 10.4 CU. YDS.

1 0 1 2 3
Scale in feet

CONCRETE STOCKWATER STORAGE TANK

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

	Date		
Designed		Approved by	
Drawn		Title	
Traced		Title	
Checked		Sheet No. 2 of 2	Drawing No.

JOB PLAN NO. 14.3