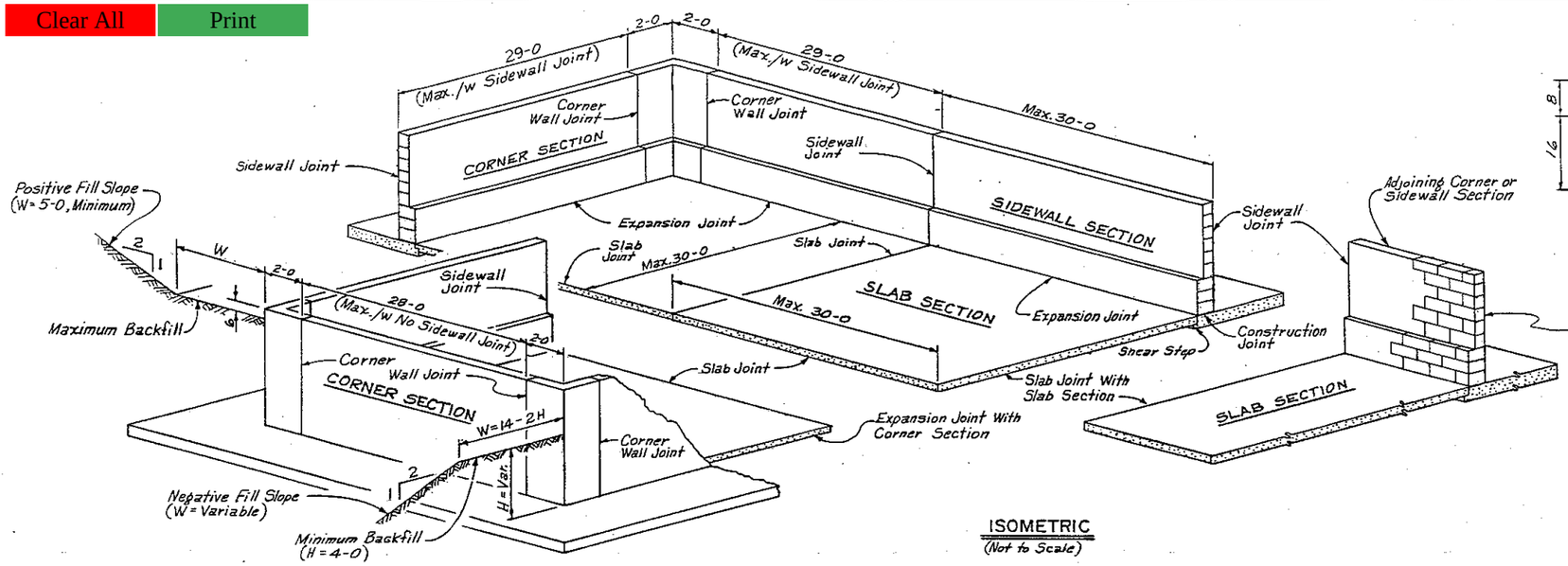
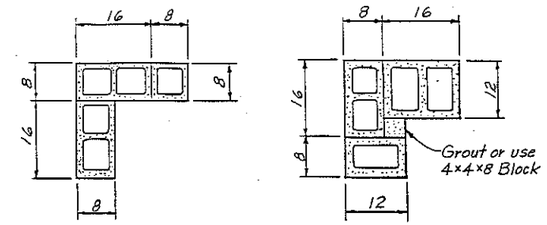
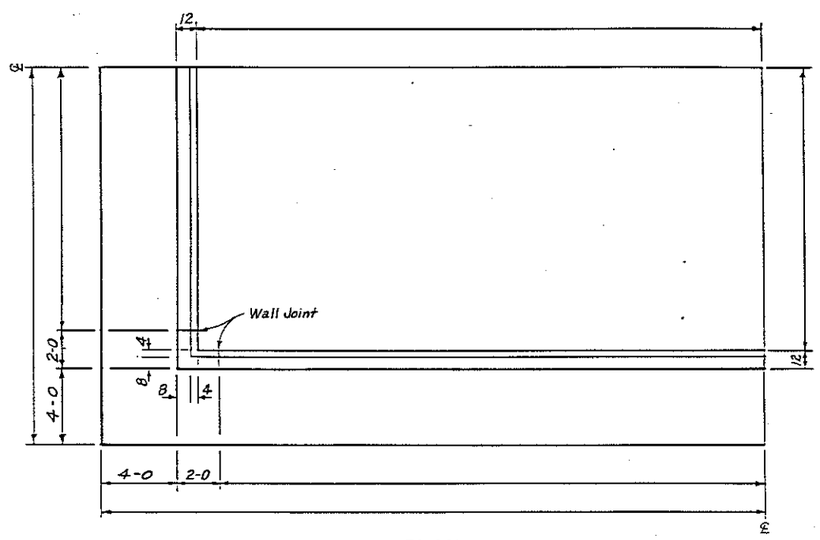
Clear All Print



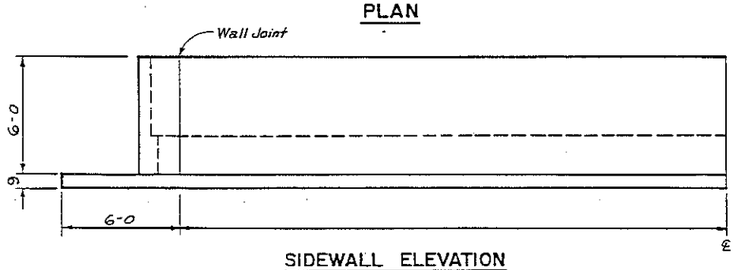
ISOMETRIC
(Not to Scale)



TYPICAL CORNER DETAILS
3/4" = 1'-0"



PLAN

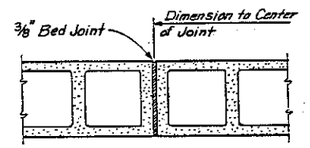


SIDEWALL ELEVATION

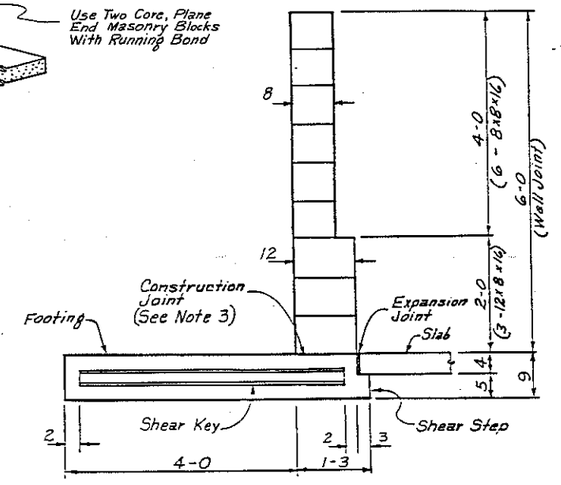
BACKFILL AND GRADING NOTES:

Bank Backfill Material to Maximum Height of Backfill of Wall Joints for Minimum and Intermediate Backfill Conditions.

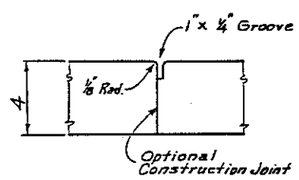
Grade Backfill to Remove Surface Runoff from Area Surrounding Holding Tank.



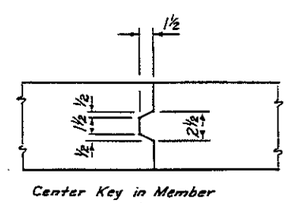
WALL JOINT
(See Note 2)



JOINT DETAILS

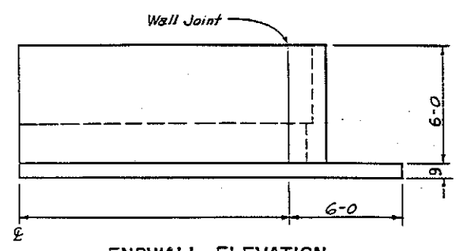


SLAB JOINT



SHEAR KEY DETAIL

JOINT DETAILS



ENDWALL ELEVATION

JOINT NOTES:

1. Paint Keyed Footing Joint and Area of Shear Step Under Slab with Bituminous Paint to Prevent Bonding of Concrete.
2. Paint Blocks on One Side of Wall Joint with Bituminous Paint to Prevent Bonding of Bed Mortar.
3. Use Rough Finish on Footing Concrete Under Concrete Block to Facilitate Bonding with Grout Fill and Bed Mortar.
4. Use 1/2" Thick, Type I Preformed Joint Filler in Expansion Joint Between Wall Footing and Slab Sections.
5. Footing Slab Not Articulated at Corner Wall Joints.

HOLDING TANK
(Not to Scale)

REINFORCED CONCRETE BLOCK AG WASTE STORAGE TANK					
Standard Dwg. No.	SNTC - 9				
Designed	QKM	Drawn	EAK	Checked	WHL
Date	2-82	Sheet	1 of 2		

STANDARDIZED DESIGN
Must be adapted to specific site. Refer to Instructions for Use and Design Assumptions.

— x —

OPEN TOP AGRICULTURAL WASTE STORAGE TANK
STRUCTURAL DETAILS - HOLDING TANK

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DESIGNED	DATE	APPROVED BY
DRAWN		TITLE
TRACED		TITLE
CHECKED		SHEET No. of / DRAWING NO.

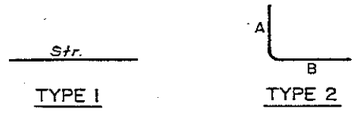
SCS-ENG-314 (Rev. 7-71)

Clear All Print

STEEL SCHEDULE-HOLDING TANK

No.	Qty.	Lgth.	Total Length	Size	Type	A	B
1		5-9		6	2	2-3	4-2
2		4-0		6	2	1-7	2-5
3		3-10		5	1		

Leg A Vertical
All Bars Except Bars 1 and 2 are Size 5



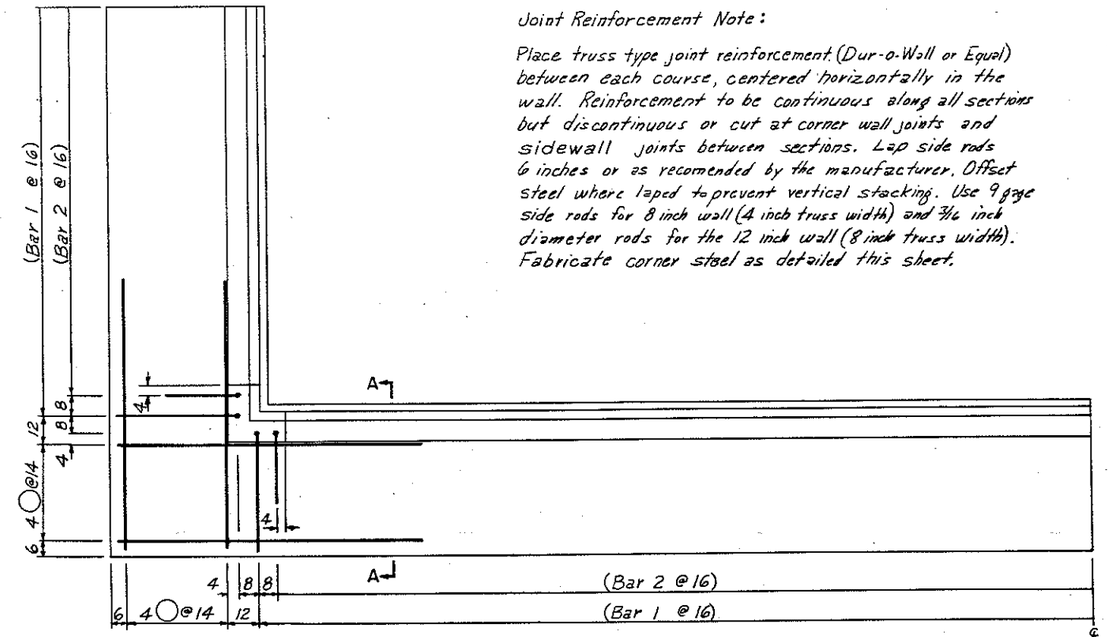
BAR TYPES

QUANTITIES OF MATERIALS

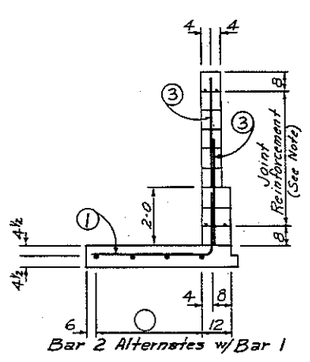
Steel Reinforcement Deformed Bars :	No. 5 Bars	ft.		lbs. (1.043 lbs/ft)
	No. 6 Bars	ft.		lbs. (1.503 lbs/ft)
	Total			lbs.
Welded Wire Fabric		sq. ft.		lbs. (0.210 lbs/sq. ft)
Joint Reinforcement :	8 inch wall			ft.
	12 inch wall			ft.
	Total			
Total Class 3000 Concrete				cu. yds.
Concrete Masonry Block :	12×8×16 Block			units
	8×8×16 Block			units
Mortar :	For Unit Masonry			cu. yds.
	For Reinforced Masonry Grout			cu. yds.
Total Bedding Material				cu. yds.

Joint Reinforcement Note:

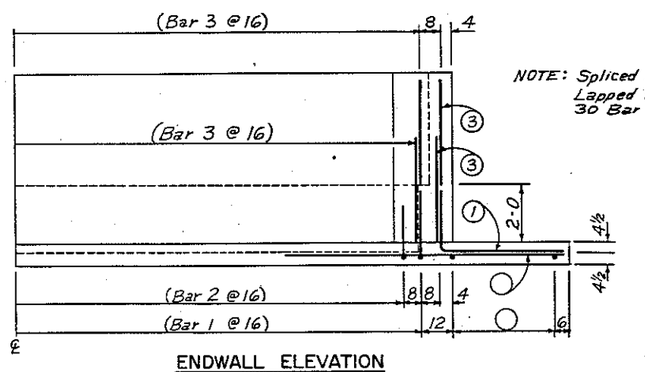
Place truss type joint reinforcement (Dur-o-Wall or Equal) between each course, centered horizontally in the wall. Reinforcement to be continuous along all sections but discontinuous or cut at corner wall joints and sidewall joints between sections. Lap side rods 6 inches or as recomended by the manufacturer. Offset steel where laped to prevent vertical stacking. Use 9 gage side rods for 8 inch wall (4 inch truss width) and 3/16 inch diameter rods for the 12 inch wall (8 inch truss width). Fabricate corner steel as detailed this sheet.



PLAN

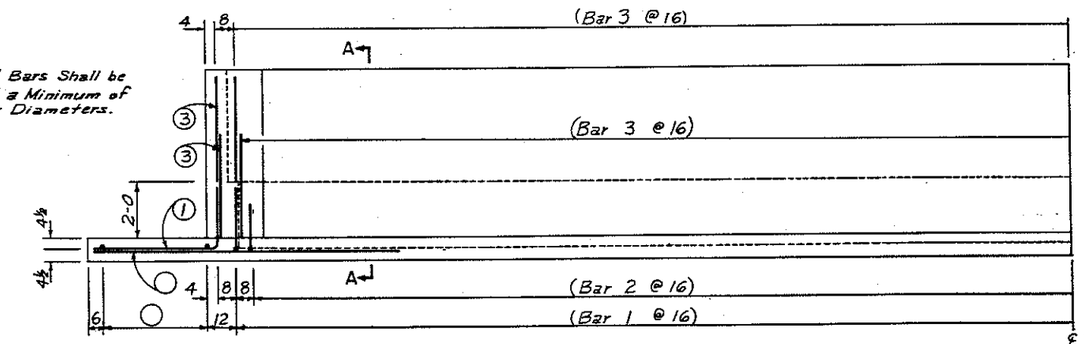


SECTION A-A



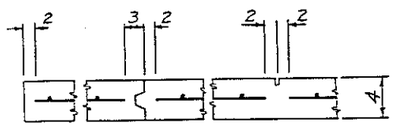
ENDWALL ELEVATION

NOTE: Spliced Bars Shall be Lapped a Minimum of 30 Bar Diameters.



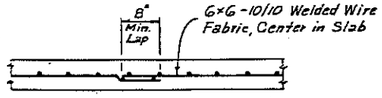
SIDEWALL ELEVATION

HOLDING TANK
(Not to Scale)

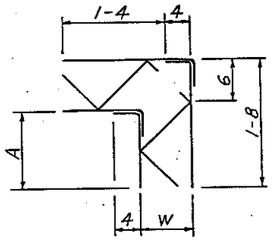


MINIMUM EDGE CLEARANCES

4" Thickness of Sand or Sand-Gravel Mixture (2" Maximum Size) Required for Slab Bedding. To Insure Compaction, Thoroughly Wet Bedding Material 24 Hours Prior to Placing the Slab. Then Sprinkle Lightly Immediately Before Pouring.



SLAB DETAILS



CORNER TRUSS DETAILS

12 Inch Wall : W = 8, A = 12
8 Inch Wall : W = 4, A = 16

— x —

OPEN TOP AGRICULTURAL WASTE STORAGE TANK
STEEL PLACEMENT - HOLDING TANK

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

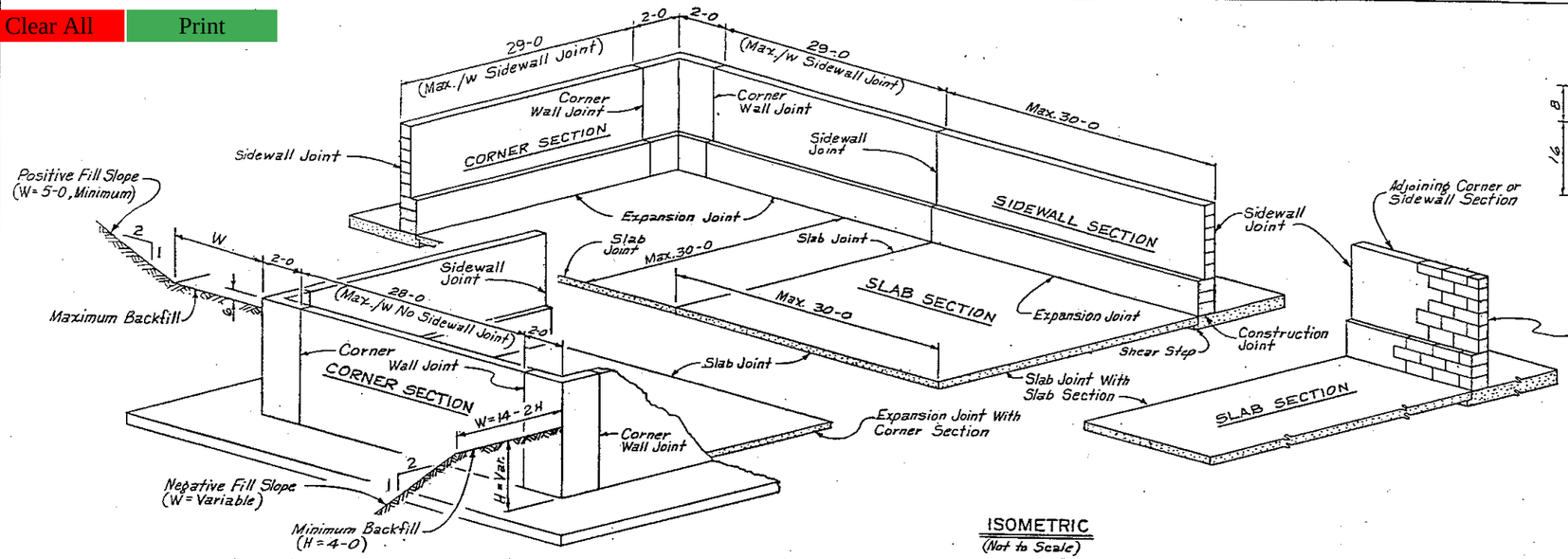
DESIGNED	DATE	APPROVED BY	
DRAWN		TITLE	
TRACED		TITLE	
CHECKED		SHEET NO. OF	DRAWING NO.

REINFORCED CONCRETE BLOCK AG WASTE STORAGE TANK			
Standard Dwg. No.	SNTC-9		
Designed QKM	Drawn EAK	Checked WHL	
Date 2-82	Sheet 2 of 2		

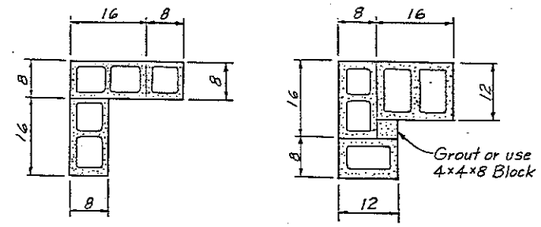
STANDARDIZED DESIGN
Must be adapted to specific site. Refer to Instructions for Use and Design Assumptions.

8-10-84 (Block)
9-14-84

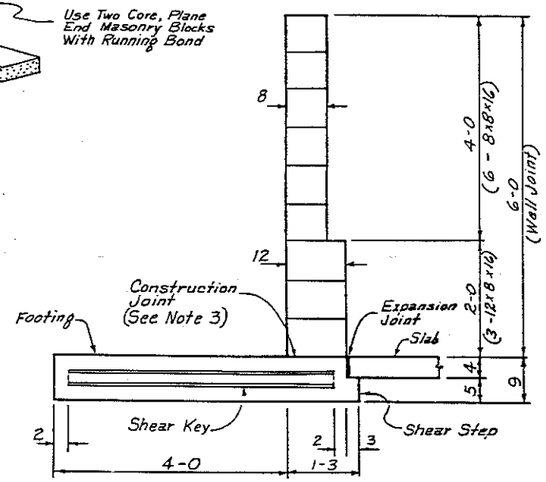
Clear All Print



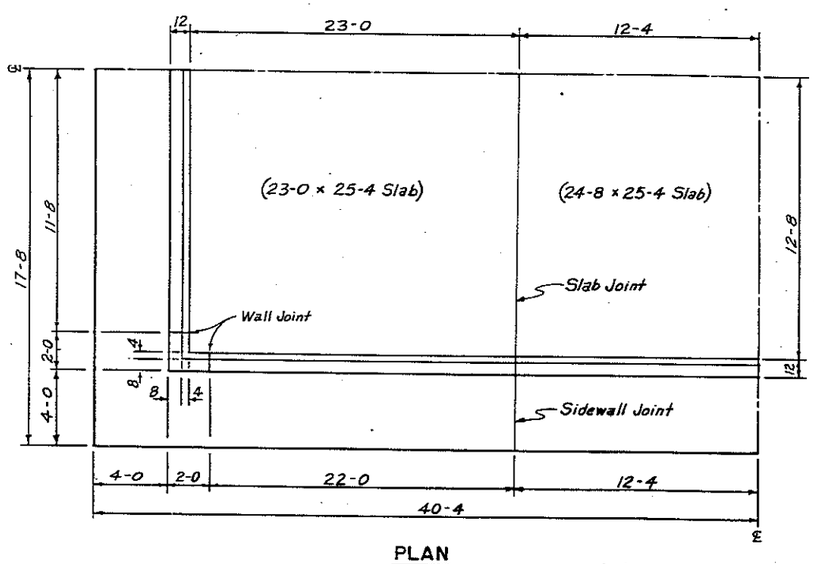
ISOMETRIC
(Not to Scale)



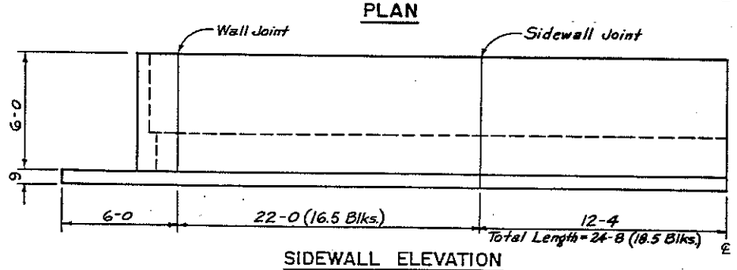
TYPICAL CORNER DETAILS
3/4" = 1'-0"



JOINT DETAILS



PLAN

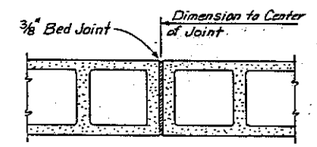


SIDEWALL ELEVATION

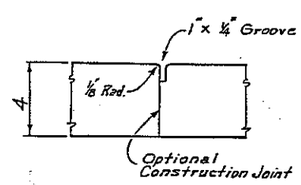
BACKFILL AND GRADING NOTES:

Bank Backfill Material to Maximum Height of Backfill of Wall Joints for Minimum and Intermediate Backfill Conditions.

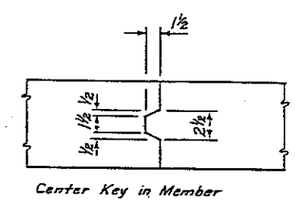
Grade Backfill to Remove Surface Runoff from Area Surrounding Holding Tank.



WALL JOINT
(See Note 2)

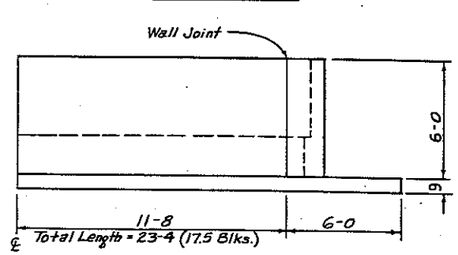


SLAB JOINT



SHEAR KEY DETAIL

JOINT DETAILS



ENDWALL ELEVATION

JOINT NOTES:

1. Paint Keyed Footing Joint and Area of Shear Step Under Slab with Bituminous Paint to Prevent Bonding of Concrete.
2. Paint Blocks on One Side of Wall Joint with Bituminous Paint to Prevent Bonding of Bed Mortar.
3. Use Rough Finish on Footing Concrete Under Concrete Block to Facilitate Bonding with Grout Fill and Bed Mortar.
4. Use 1/2" Thick, Type I Preformed Joint Filler in Expansion Joint Between Wall Footing and Slab Sections.
5. Footing Slab Not Articulated at Corner Wall Joints.

25 x 70 (25-4 x 70-8)

OPEN TOP AGRICULTURAL WASTE STORAGE TANK
STRUCTURAL DETAILS - HOLDING TANK

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DESIGNED | APPROVED BY
DRAWN | TITLE
TRACED | TITLE
CHECKED | SHEET No. of | DRAWING NO.

EXAMPLE

SCS-ENG-314 (Rev. 7-71)

REINFORCED CONCRETE BLOCK AG WASTE STORAGE TANK			
Standard Dwg. No.	SNTC-9 (Example)		
Designed QKM	Drawn EAK	Checked WHL	
Date 2-82	Sheet 1 of 2		

STANDARDIZED DESIGN
Must be adapted to specific site. Refer to Instructions for Use and Design Assumptions.

HOLDING TANK
(Not to Scale)

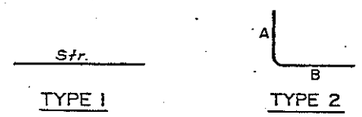
8-10-84 (Block)
9-14-84

Clear All Print

STEEL SCHEDULE-HOLDING TANK

No.	Qty.	Length	Total Length	Size	Type	A	B
1	150	5-9	862-6	6	2	2-3	4-2
2	142	4-0	568-0	6	2	1-7	2-5
3	300	3-10	1150-0	5	1		
4	32	14-7	466-8	5	1		
5	16	12-11	206-8	5	1		
6	16	18-3	292-0	5	1		

Leg A Vertical
All Bars Except Bars 1 and 2 are Size 5



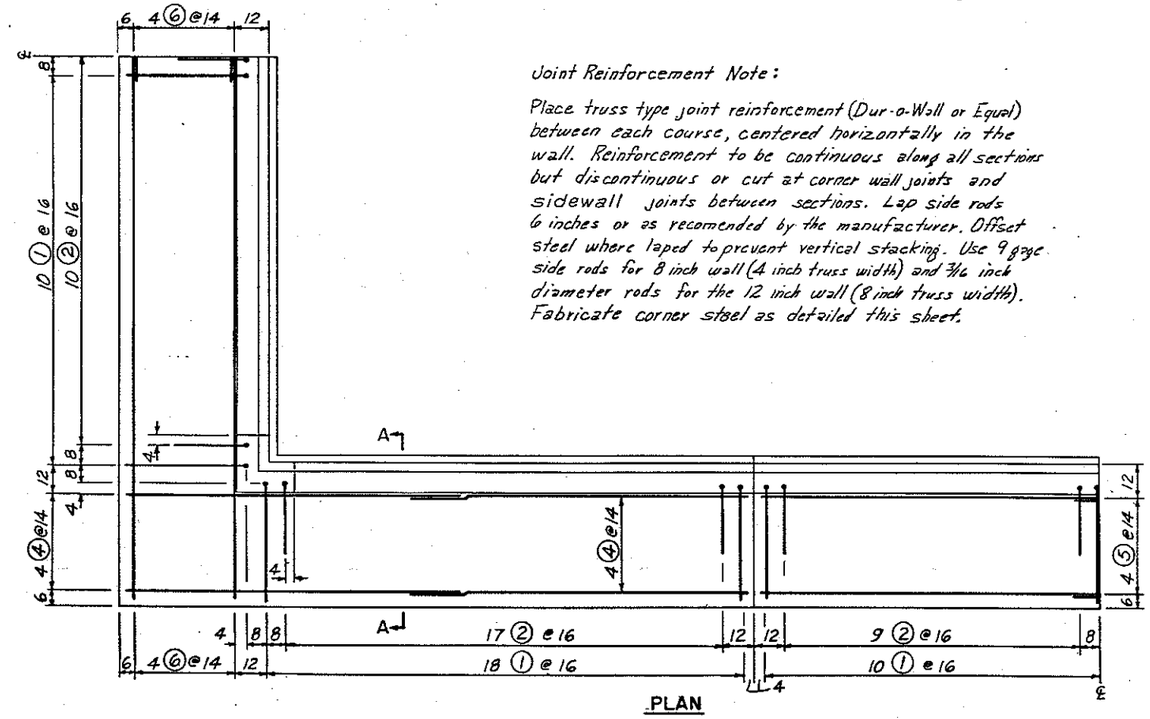
BAR TYPES

QUANTITIES OF MATERIALS

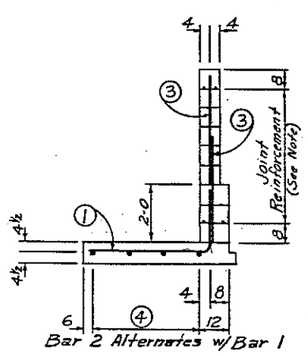
Steel Reinforcement Deformed Bars :	No. 5 Bars	2115.33 ft.	2206	lbs. (1.043 lbs/ft)
	No. 6 Bars	1430.5 ft.	2150	lbs. (1.503 lbs/ft)
	Total		4562	lbs.
Welded Wire Fabric		1790 sq. ft.	376	lbs. (0.210 lbs/sq. ft)
Joint Reinforcement :	8 inch wall		1200	ft.
	12 inch wall		400	ft.
	Total			
Total Class 3000 Concrete			51.5	cu. yds.
Concrete Masonry Block :	12×8×16 Block		432	units
	8×8×16 Block		900	units
Mortar :	For Unit Masonry		1.5	cu. yds.
	For Reinforced Masonry Grout		17.9	cu. yds.
Total Bedding Material			22.0	cu. yds.

Joint Reinforcement Note:

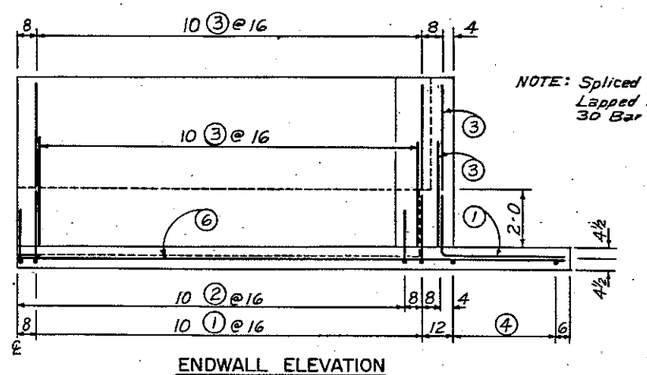
Place truss type joint reinforcement (Dur-o-Wall or Equal) between each course, centered horizontally in the wall. Reinforcement to be continuous along all sections but discontinuous or cut at corner wall joints and sidewall joints between sections. Lap side rods 6 inches or as recomended by the manufacturer. Offset steel where laped to prevent vertical stacking. Use 9 gage side rods for 8 inch wall (4 inch truss width) and 3/16 inch diameter rods for the 12 inch wall (8 inch truss width). Fabricate corner steel as detailed this sheet.



PLAN

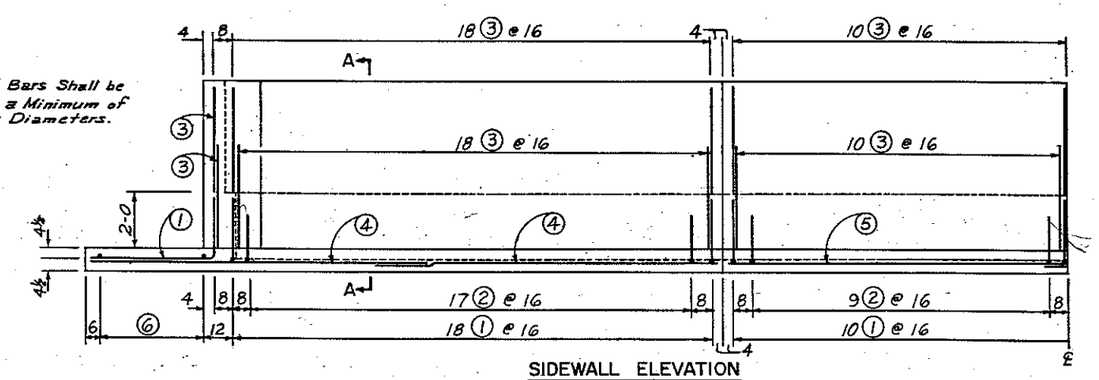


SECTION A-A



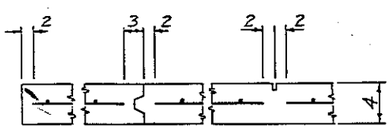
ENDWALL ELEVATION

NOTE: Spliced Bars Shall be Lapped a Minimum of 30 Bar Diameters.



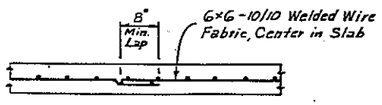
SIDEWALL ELEVATION

HOLDING TANK
(Not to Scale)

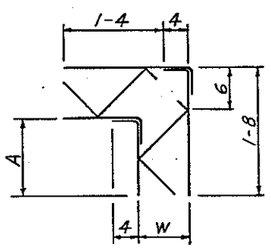


MINIMUM EDGE CLEARANCES

4" Thickness of Sand or Sand-Gravel Mixture (2" Maximum Size) Required for Slab Bedding. To Insure Compaction, Thoroughly Wet Bedding Material 24 Hours Prior to Placing the Slab. Then Sprinkle Lightly Immediately Before Pouring.



SLAB DETAILS



CORNER TRUSS DETAILS
1" = 1'-0"

12 Inch Wall : W = 8, A = 12
8 Inch Wall : W = 4, A = 16

25 x 70 (25-4 × 70-8)

OPEN TOP AGRICULTURAL WASTE STORAGE TANK
STEEL PLACEMENT - HOLDING TANK

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

EXAMPLE

DESIGNED | DATE | APPROVED BY | TITLE
DRAWN | TITLE
TRACED | TITLE
CHECKED | SHEET | DRAWING NO.

REINFORCED CONCRETE BLOCK AG WASTE STORAGE TANK					
Standard Dwg. No.	SNTC - 9 (Example)				
Designed QKM	Drawn EAK		Checked WHL		
Date 2-82		Sheet 2	of 2		

STANDARDIZED DESIGN
Must be adapted to specific site. Refer to Instructions for Use and Design Assumptions.

8-10-84 (Block)
9-14-84