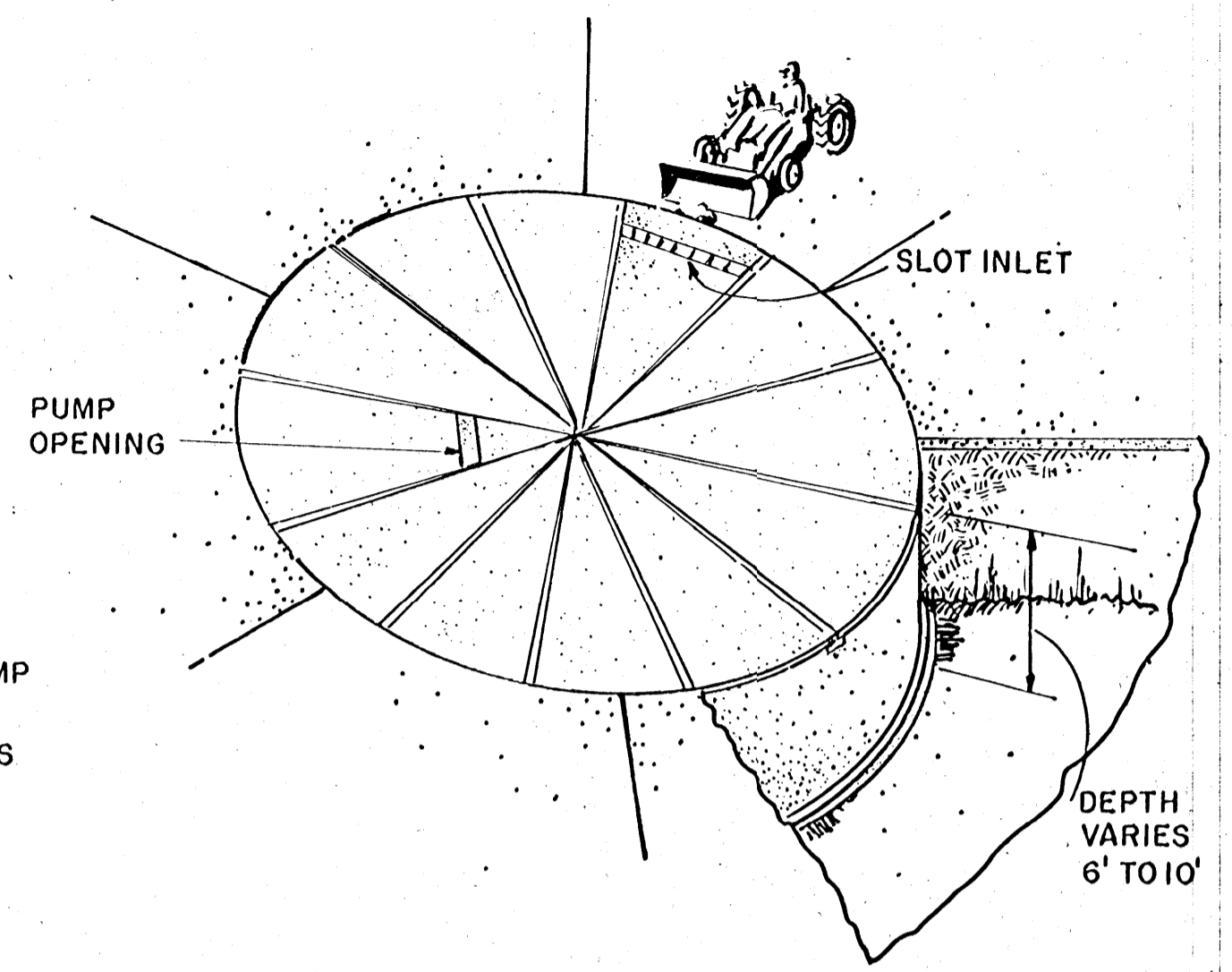
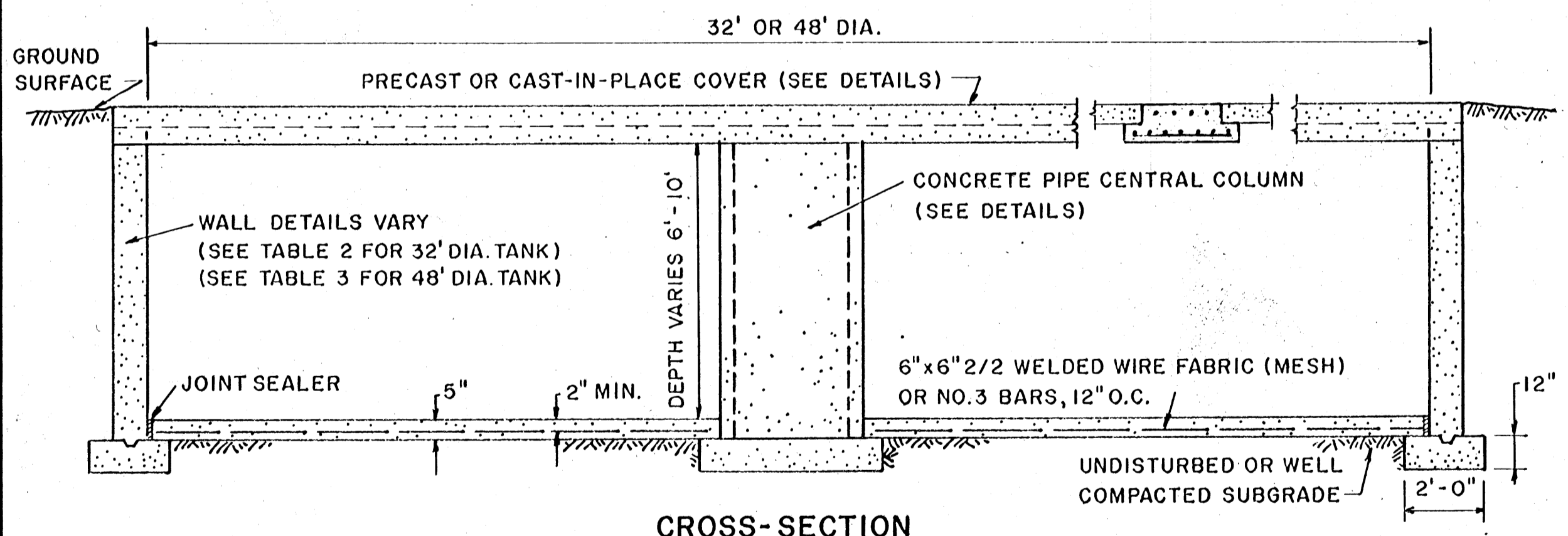


**HALF PLAN VIEW**

NOTE:  
ROOF DESIGN LOAD FOR TRACTOR AND 1500 GAL. CAPACITY SPREADER.



**GENERAL VIEW**



**CROSS-SECTION**

**TABLE I - APPROXIMATE TANK CAPACITIES IN GALLONS**

TANK DEPTH, FEET	TANK DIAMETER, FEET	
	32	48
6	36,000	81,000
8	48,000	108,000
10	60,000	135,000

NOTE: ESTIMATE TANK VOLUME REQUIRED FOR CATTLE AT 15 GALLON PER HEAD PER DAY

**GENERAL NOTES:**

1. SUGGESTED CONCRETE MIX DESIGN: SPECIFY MIX CONTAINING 6 BAGS OF PORTLAND CEMENT PER CU. YD. AND NOT MORE THAN 6 GALLONS OF WATER PER BAG OF CEMENT. SPECIFY 5-7% ENTRAINED AIR.
2. THE SIZE AND SHAPE OF PUMP, AGITATOR AND FILL OPENINGS MAY VARY. CONSULT EQUIPMENT MFG. FOR DETAILS.
3. A BARN CLEANER OR GUTTER INLET MAY BE ADAPTED TO THIS TANK.
4. A FLAP VALVE IN THE TANK FLOOR MAY BE USED IN AREAS SUBJECT TO HIGH WATER TABLES TO RELIEVE BOUYANCY PROBLEMS WHEN TANK IS EMPTY.
5. THE AREA SURROUNDING THE TANK SHOULD BE PAVED (MIN. WIDTH 10')

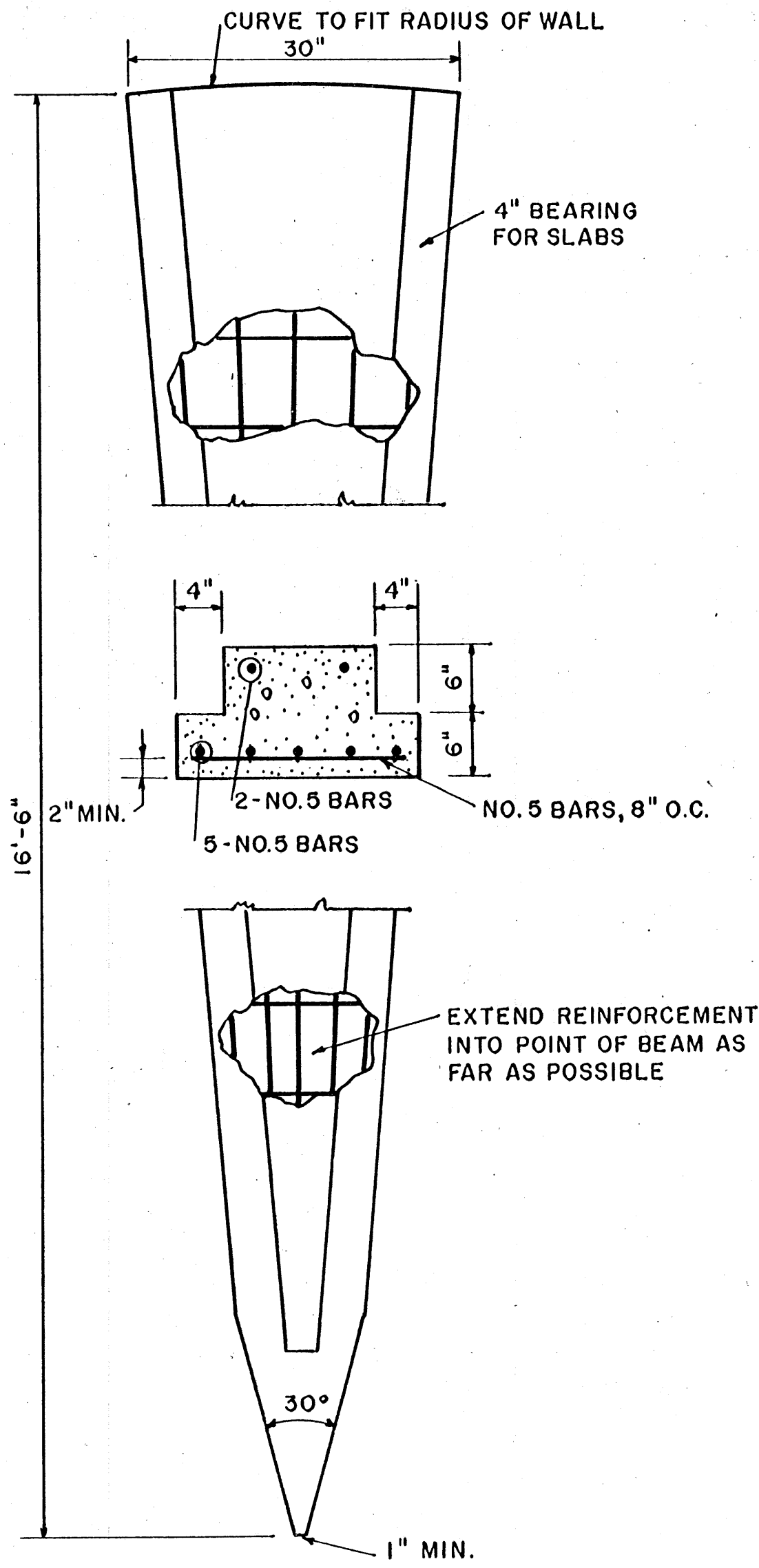
COOPERATIVE EXTENSION WORK IN  
AGRICULTURE AND HOME ECONOMICS  
**STATE OF MISSISSIPPI**  
**MISSISSIPPI STATE UNIVERSITY**  
AND  
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

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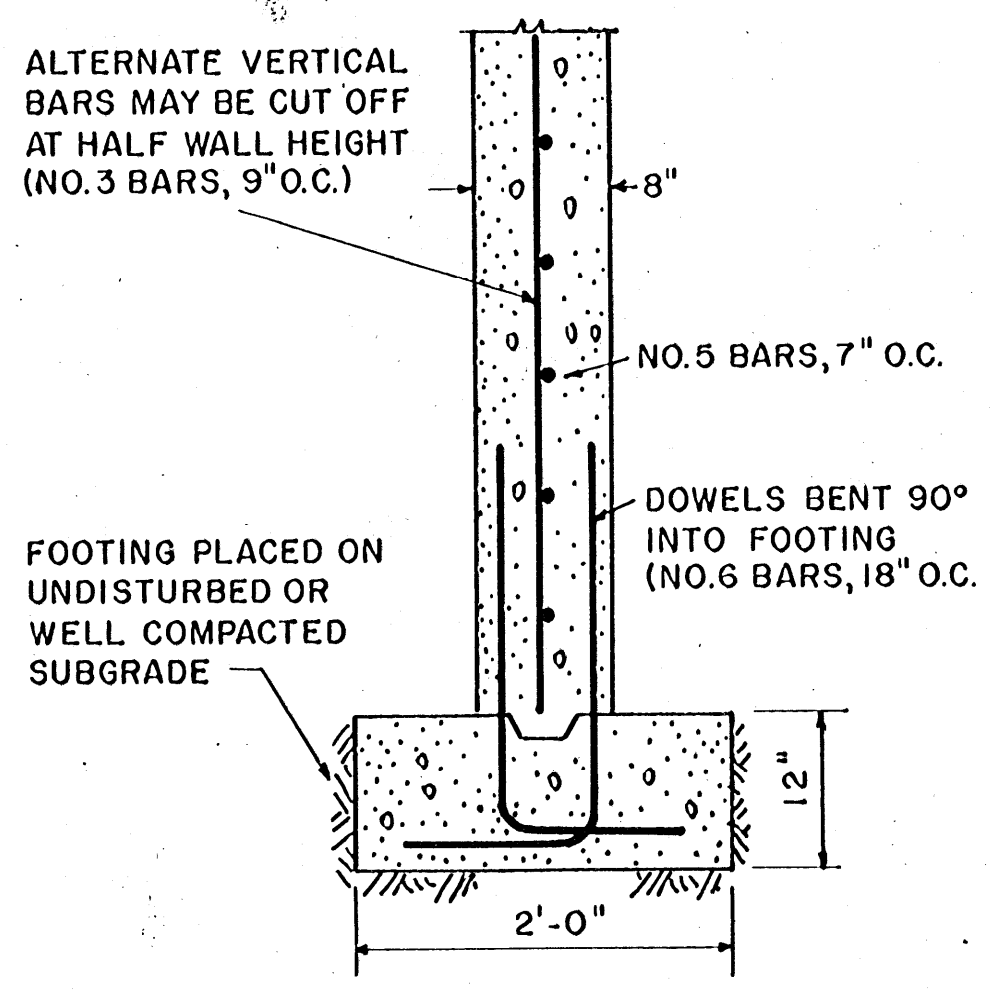
**CIRCULAR CONCRETE  
MANURE TANK**

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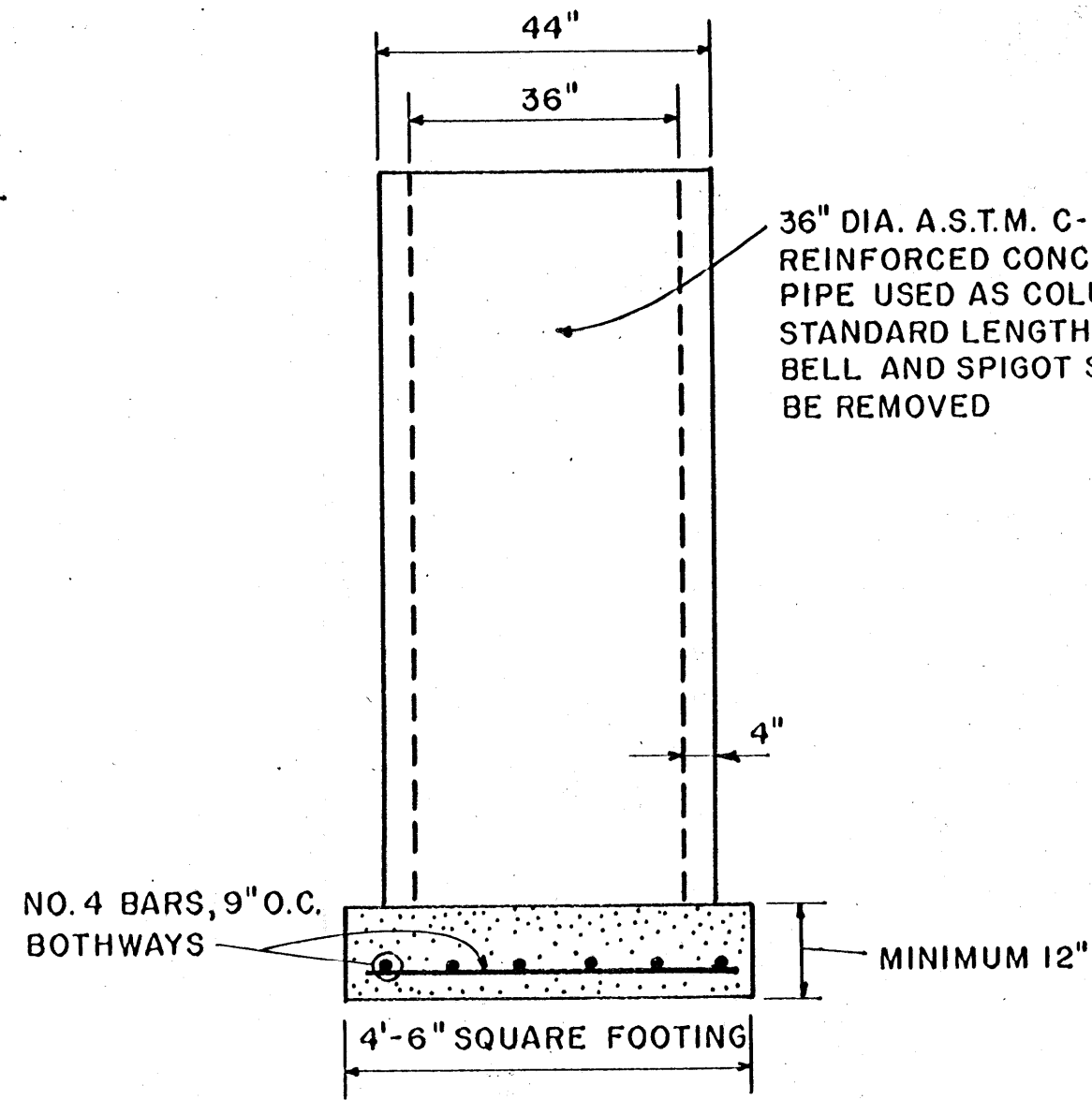
PCA '65    EX. 5984    SHEET 1 OF 3



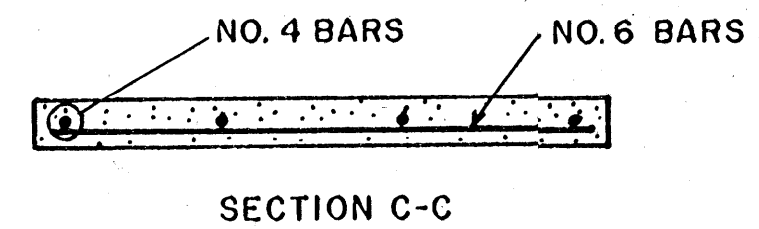
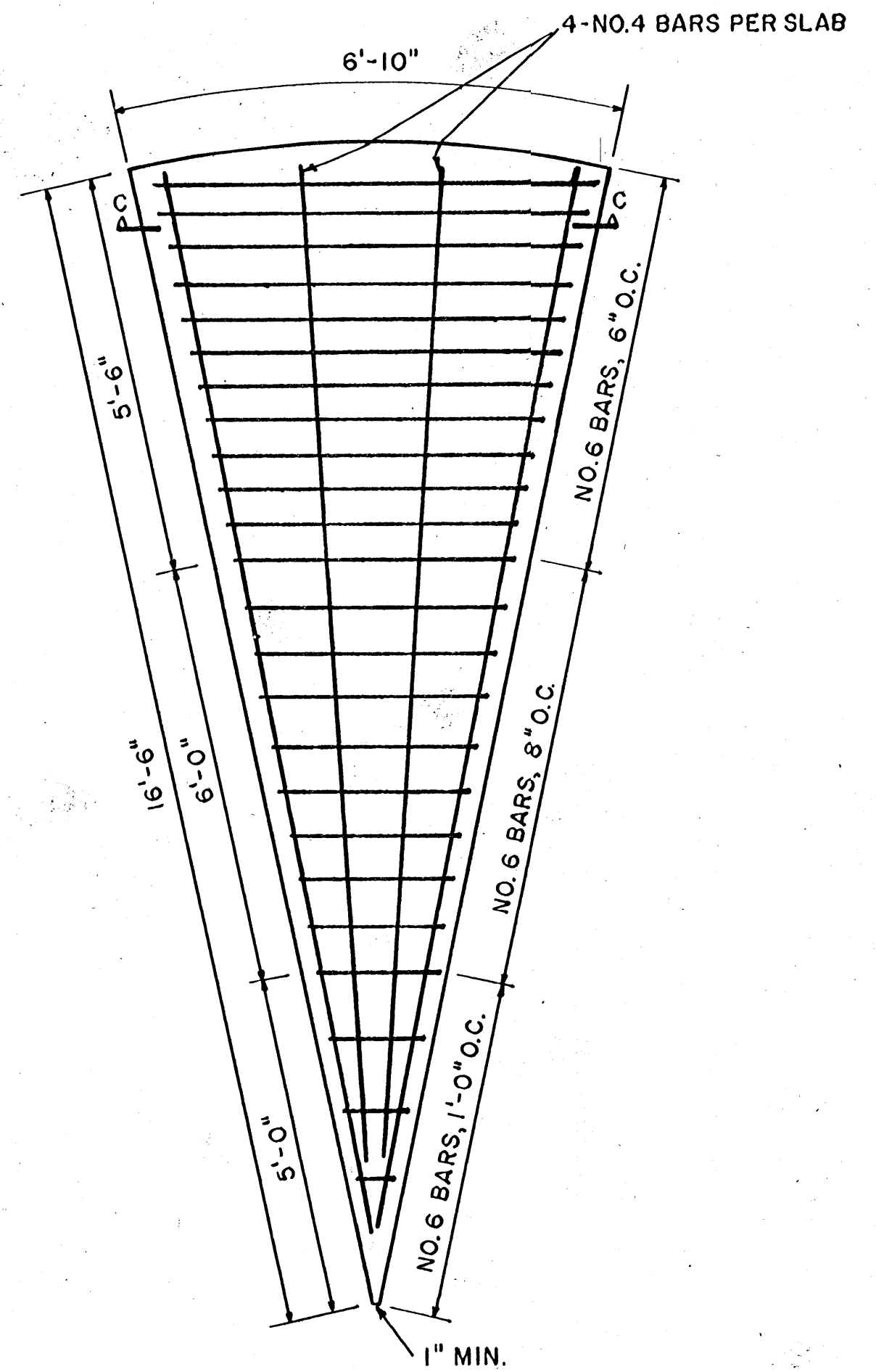
**PLAN AND SECTION OF BEAM**  
(32' DIA. TANK - 12 REQ.)



**TYPICAL WALL AND FOOTING DETAIL**  
(32' DIA. TANK)



**CENTRAL COLUMN**  
(32' DIA. TANK)



**SLAB PLAN VIEW**  
(32' DIA. TANK)  
12 UNITS REQ.

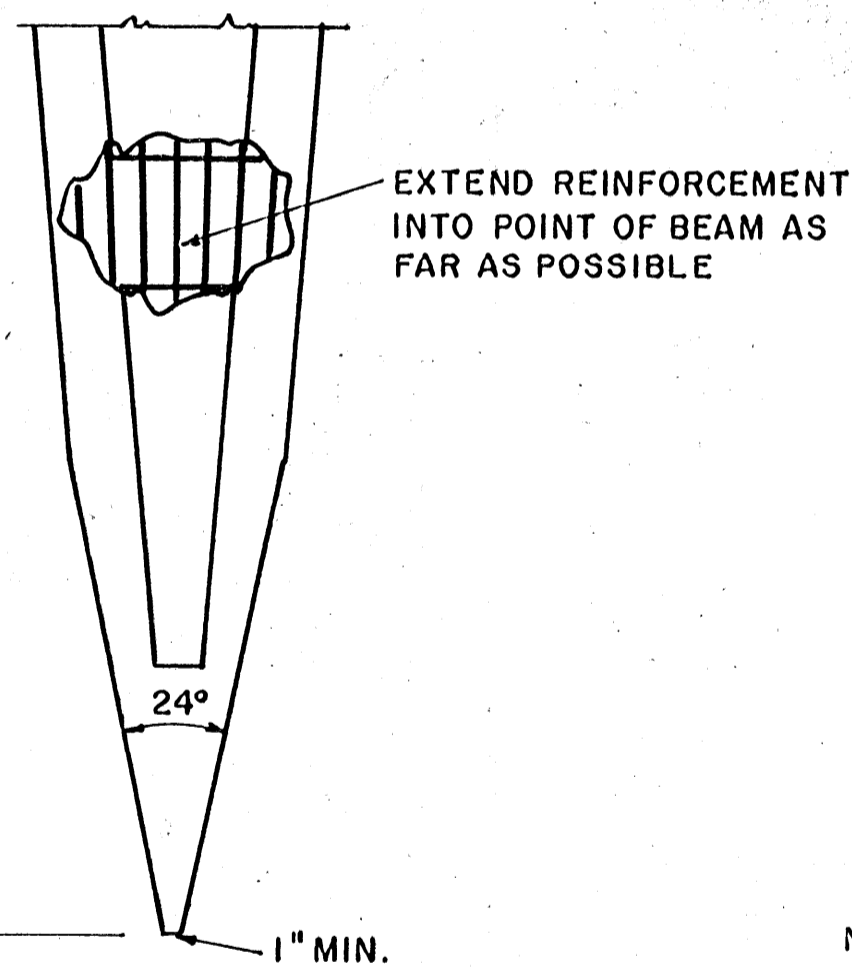
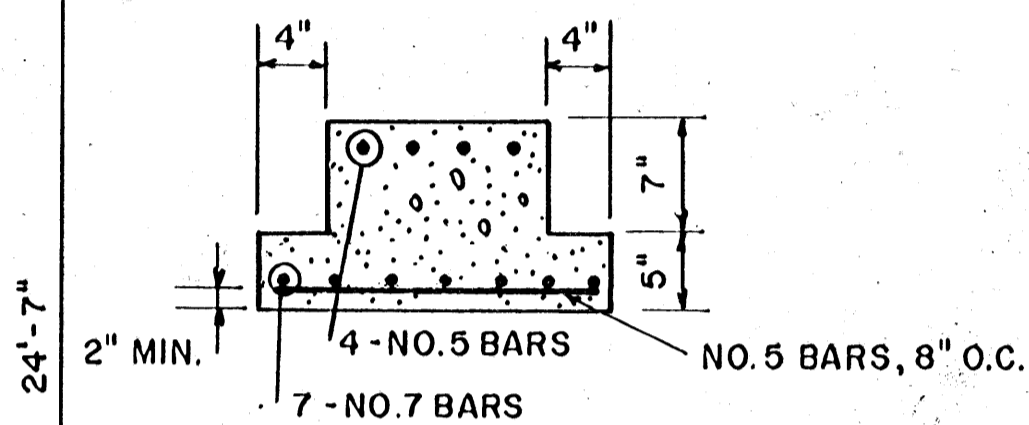
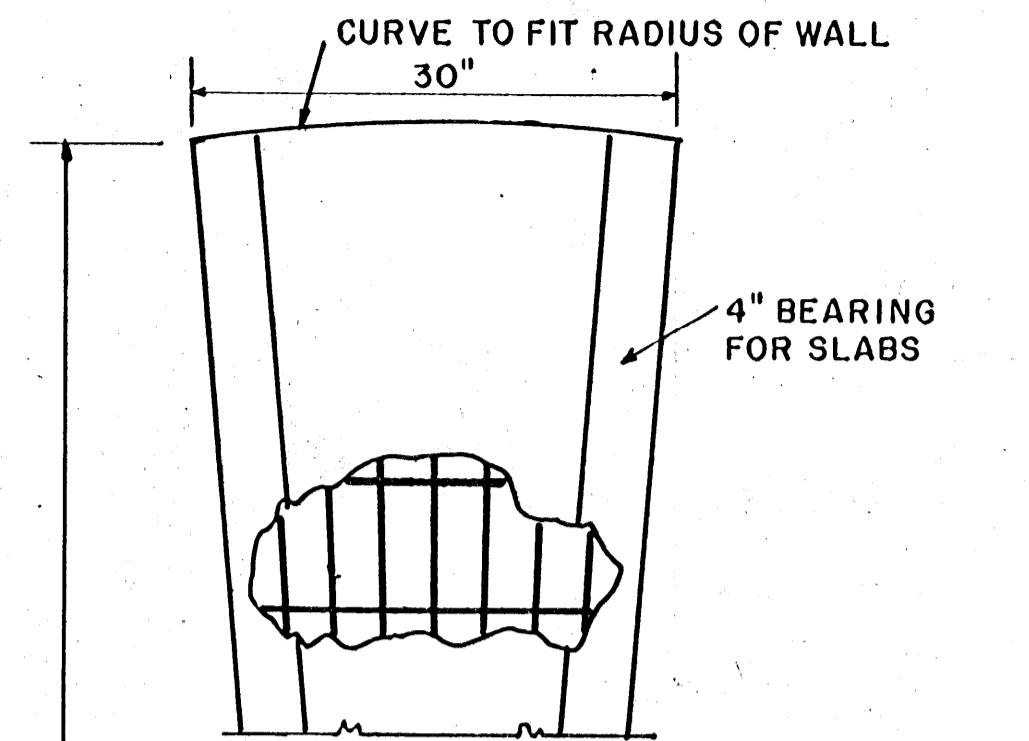
TABLE 2 - WALL THICKNESS AND REINFORCEMENT FOR WALL HEIGHTS 6, 8 AND 10 FEET

TANK DIAMETER, FEET	WALL THICKNESS, INCHES	RING STEEL	VERTICAL STEEL	REMARKS
32	8	NO. 5, 7" O.C. SINGLE CURTAIN	NO. 3, 9" O.C.	ALT. VERTICAL BARS MAY BE STOPPED AT HALF WALL HEIGHT

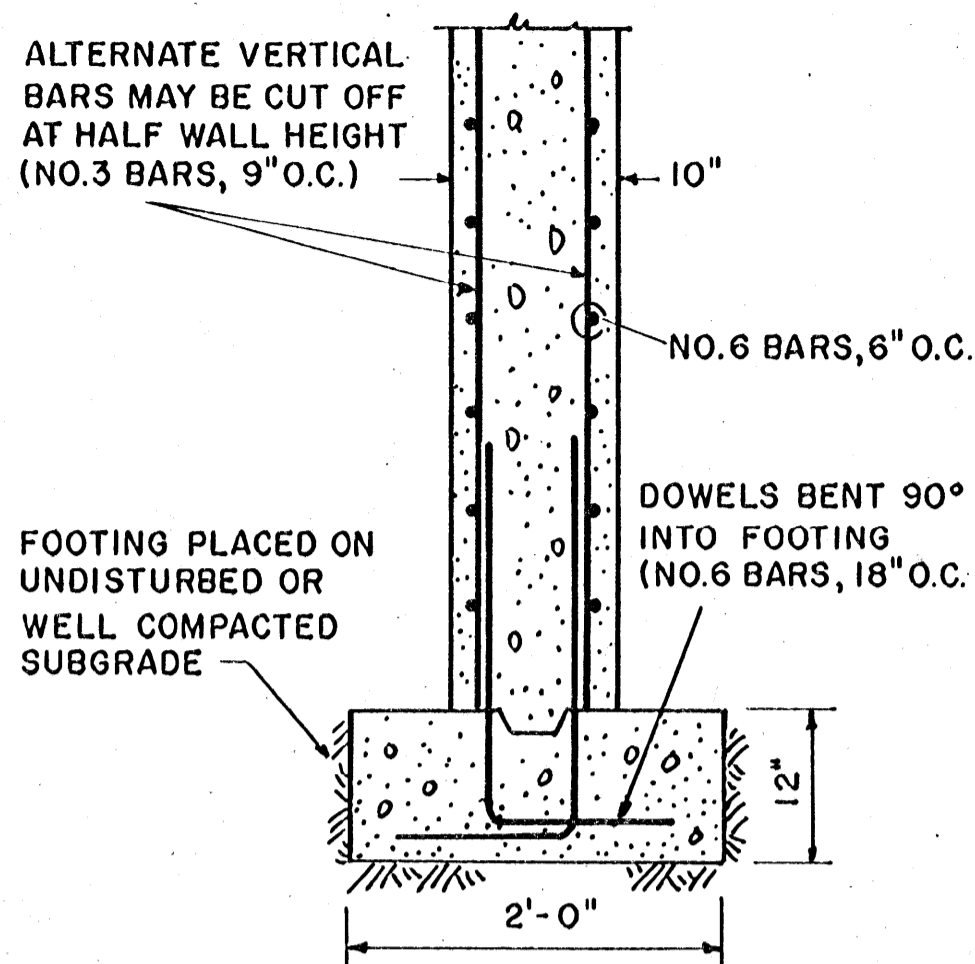
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**CIRCULAR CONCRETE  
MANURE TANK**

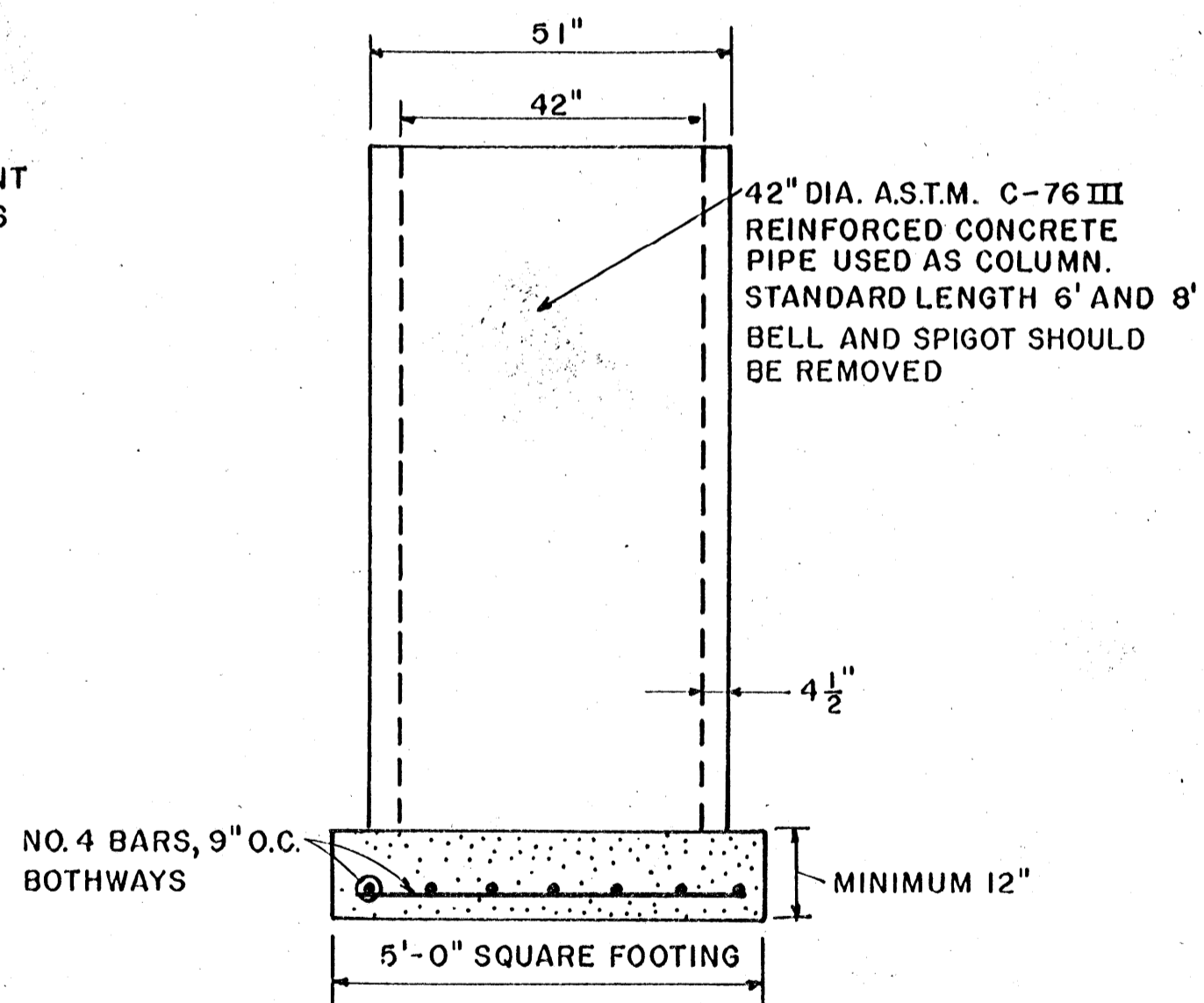
PCA '65    EX. 5984    SHEET 2 OF 3



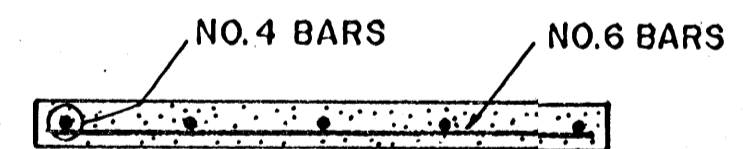
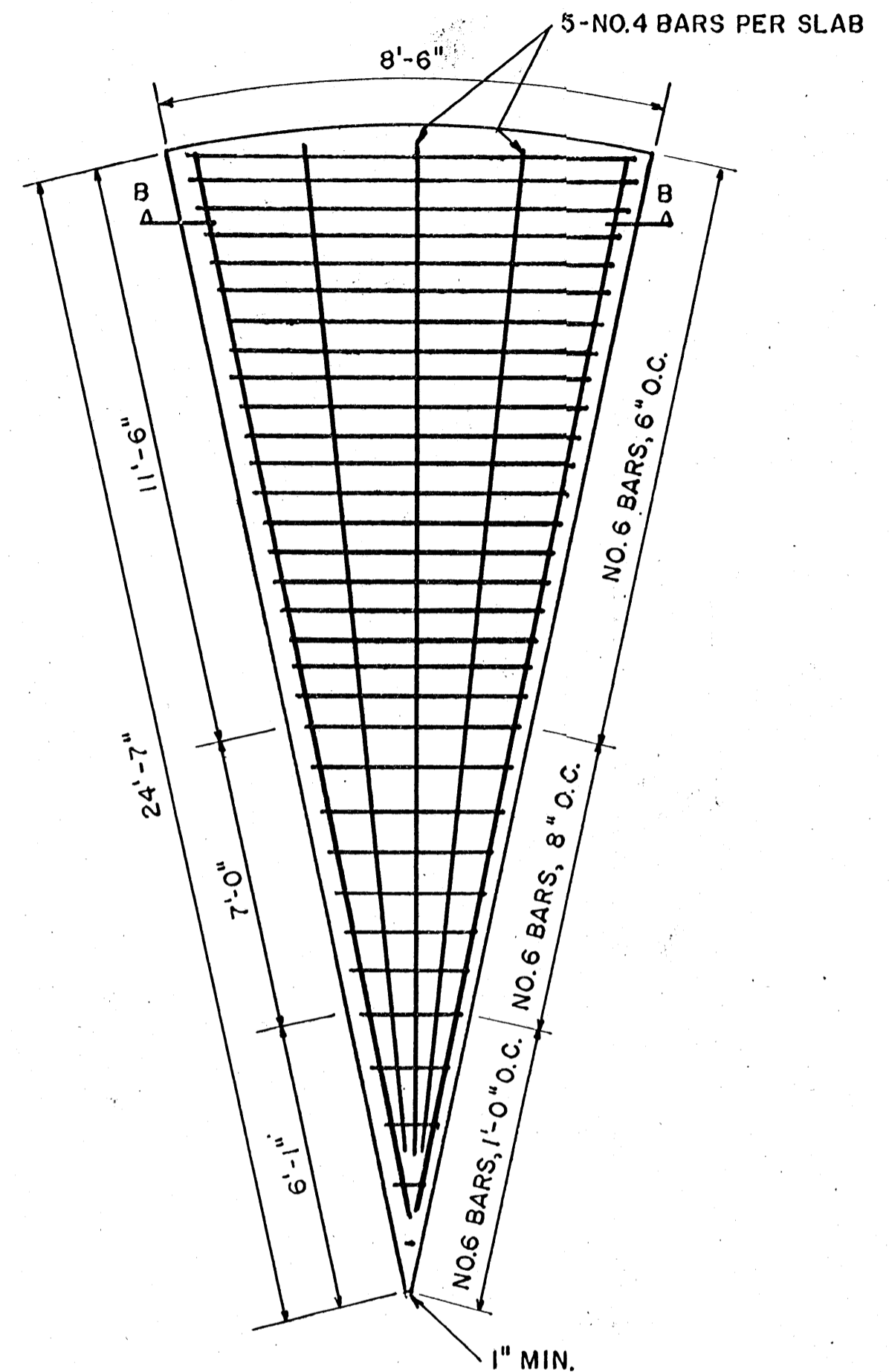
**PLAN AND SECTION OF BEAM**  
(48' DIA. TANK - 15 REQ.)



**TYPICAL WALL AND FOOTING DETAIL**  
(48' DIA. TANK)



**CENTRAL COLUMN**  
(48' DIA. TANK)



**SLAB PLAN VIEW**  
(48' DIA. TANK)  
15 UNITS REQ.

TABLE - WALL THICKNESS AND REINFORCEMENT FOR WALL HEIGHTS 6, 8 AND 10 FEET

TANK DIAMETER, FEET	WALL THICKNESS, INCHES	RING STEEL	VERTICAL STEEL	REMARKS
48	10	NO. 6, 6" O.C. DOUBLE CURTAIN	NO. 3, 9" O.C.	ALT. VERTICAL BARS MAY BE STOPPED AT HALF WALL HEIGHT