

# ONE 6.0 MILLION GALLON WATER STORAGE TANK

## CONTRACT NO. 86 PE 004 WITH

### TOWN OF ADDISON,

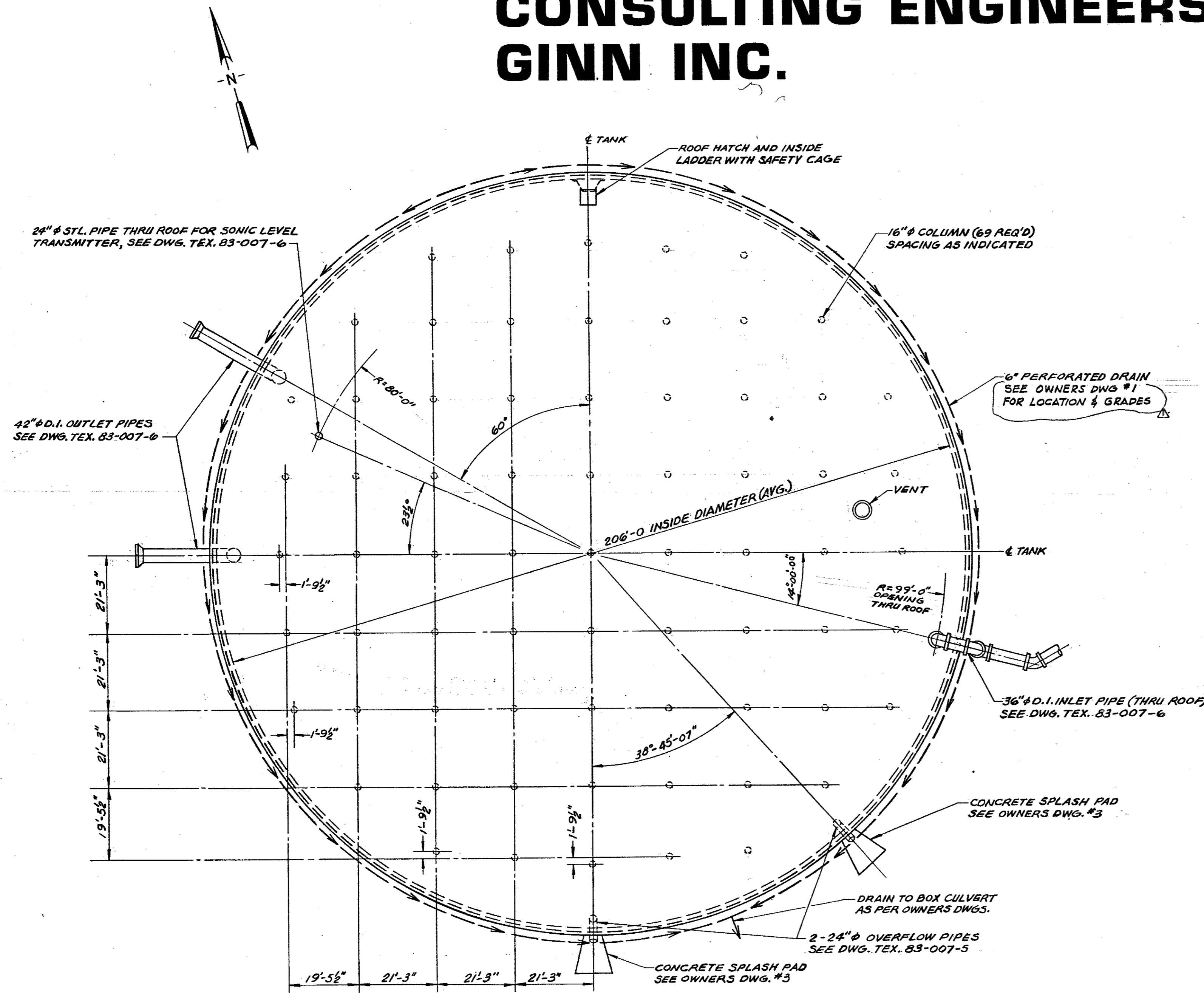
### COUNTY OF DALLAS, TEXAS

## CONSULTING ENGINEERS:

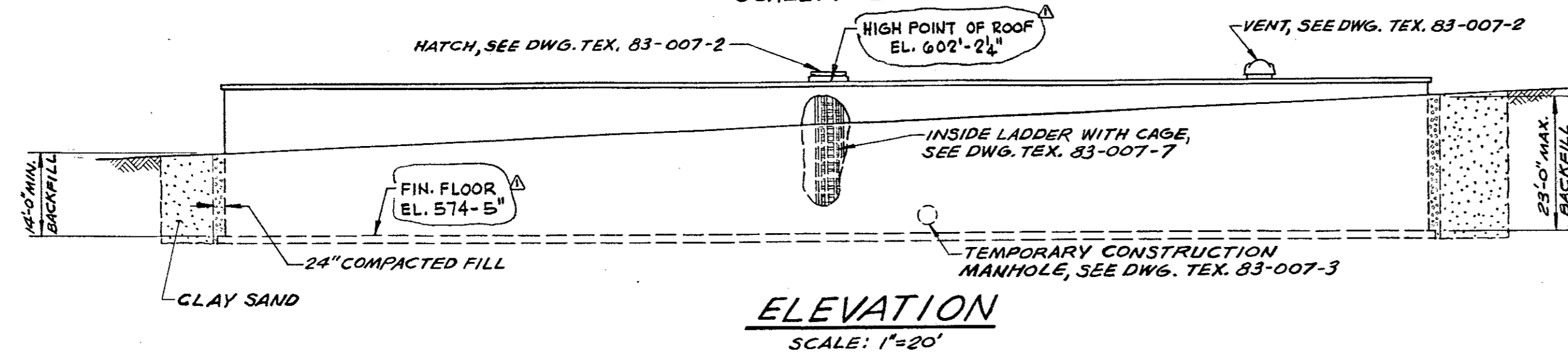
# GINN INC.

### PRELOAD WORKING DRAWINGS

- TEXAS 83-007-1 GENERAL ARRANGEMENT
- TEXAS 83-007-2 TYPICAL TANK SECTION
- TEXAS 83-007-3 TEMPORARY MANHOLE PANEL AND WIREWINDING SCHEDULE
- TEXAS 83-007-4 FLOOR DETAILS
- TEXAS 83-007-5 OVERFLOW AND WEIR BOX DETAILS
- TEXAS 83-007-6 INLET AND OUTLET PIPE DETAILS
- TEXAS 83-007-7 LADDER DETAILS AND PANEL LAYOUT
- TEXAS 83-007-8 ROOF SLAB REINFORCING: LAYER NO. 1
- TEXAS 83-007-9 ROOF SLAB REINFORCING: LAYER NO. 2
- TEXAS 83-007-10 ROOF SLAB REINFORCING: LAYER NO. 3
- TEXAS 83-007-11 ROOF SLAB REINFORCING: LAYER NO. 4
- TEXAS 83-007-12 ROOF SECTIONS
- TEXAS 83-007-13 ODD AND OVERFLOW PANELS
- TEXAS 83-007-14 EXCAVATION DETAILS
- TEXAS 83-007-15 REBAR SCHEDULE



**ROOF PLAN**  
SCALE: 1"=20'



**ELEVATION**  
SCALE: 1"=20'

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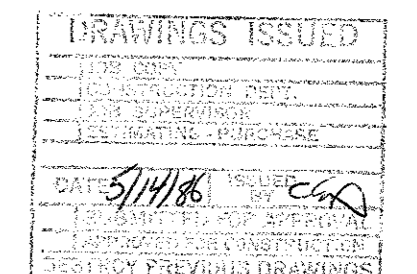
REVISIONS				
NO.	DATE	DESCRIPTION	BY	CHKD
1	5/15/86	REV. PERF. DRAIN; ADDED ELEV.'S ON TANK ELEV.	E	RAO



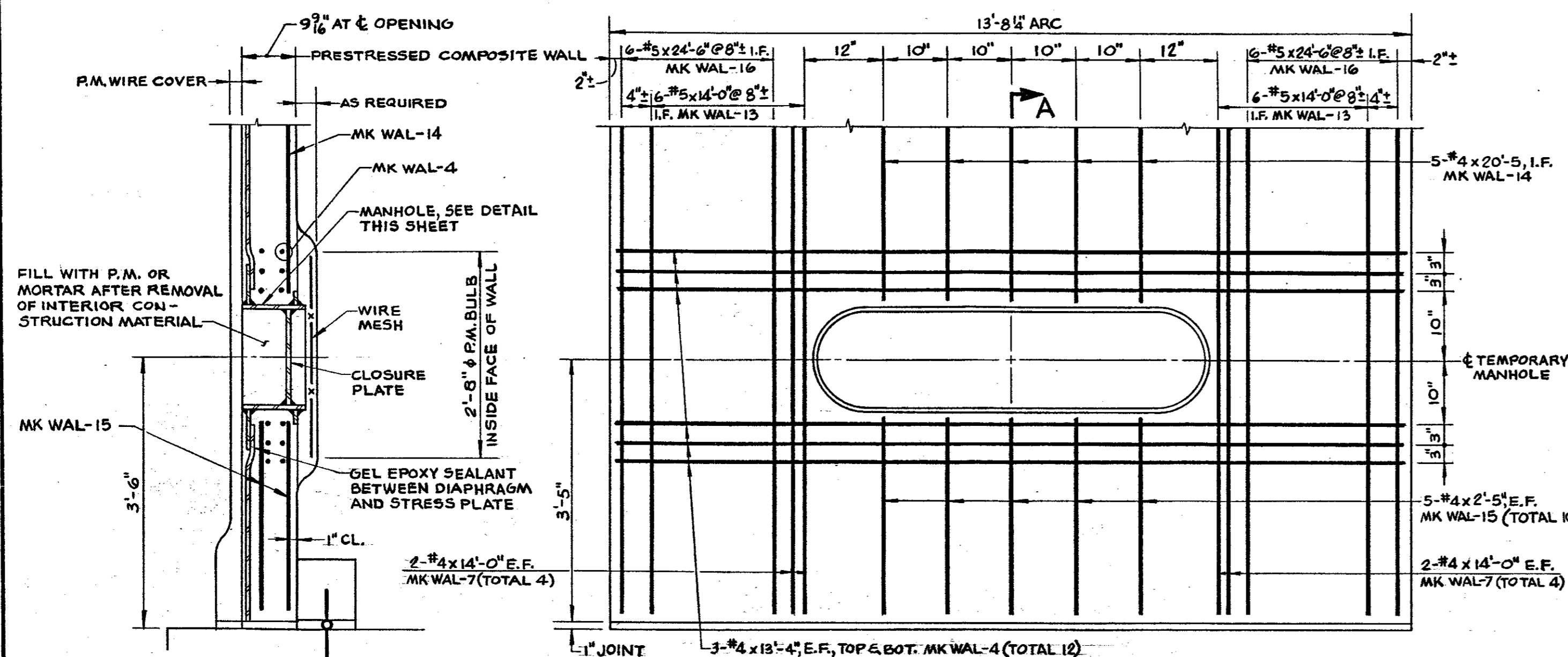
839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

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<b>WORKING DRAWING</b>		
<b>ONE 6.0 M.G. WATER STORAGE TANK</b>		
<b>ADDISON, TEXAS</b>		
<b>GENERAL ARRANGEMENT</b>		
DRAWN: PV	SCALE: AS NOTED	CONTRACT NUMBER: 86 PE 004
DESIGNED: FD	APPROVED:	DRAWING NUMBER: TEX 83-007-1
CHECKED: RAO	DATE: 4-24-86	



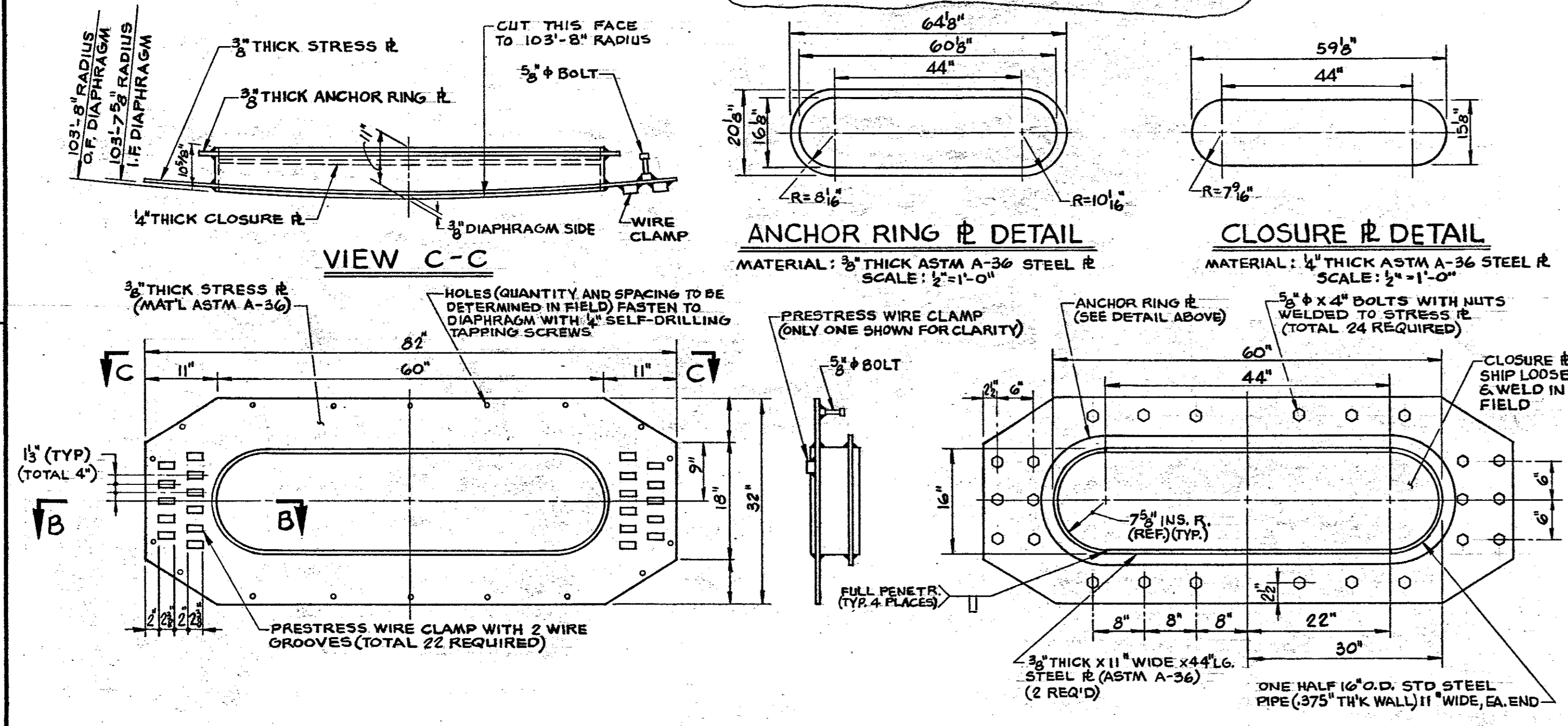




SECTION A-A

TEMPORARY MANHOLE PANEL

NOTE: MK WAL-1 & WAL-4 AT LIFTING INSERTS, AND MK WAL-3 & WAL-12 NOT SHOWN. SEE DWG. TEX. 83-007-2



VIEW C-C

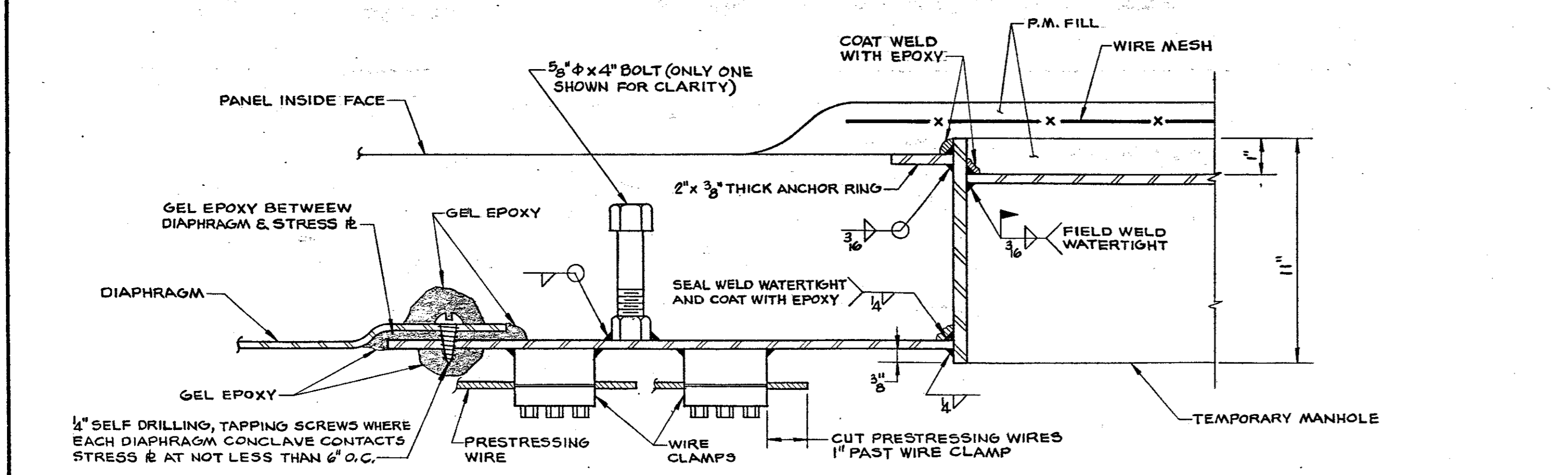
ANCHOR RING DETAIL

CLOSURE DETAIL

OUTSIDE FACE

INSIDE FACE

STRESS PLATE DETAILS



SECTION B-B

N. T. S.

THE DETAILS SHOWN ON THIS DRAWING SHALL BE PRODUCED WITHIN THE GUIDELINES AND REQUIREMENTS SPECIFIED IN PRELOAD CO. CONSTRUCTION SPECIFICATIONS & PROCEDURES NO. 'CS-28'.

MISC. IRON SCHEDULE								
MS	QUANTITY	DESIGN	ORDER	SIZE	LENGTH	WT. (LBS.)	SKETCH	LOCATION
ANC-2	10.8	11		1" x 1/4" L (15 PLF)	20'-0"	390	FORMULA: TOTAL NO. WAL-10 BARS $0.58 \times \frac{20}{2}$ (TO NEXT HIGHER 20')	PANEL JOINTS
ANC-3	8	8		3/4" φ	4'-7"	55	STAINLESS STEEL	ROOF AT OVER FLOW
ANC-4	234	239		1/2" φ	1'-4"	212	2 1/2" THREAD	WATER STOP ENCASUREMENT
ANC-5	4	4		1/2" φ	2'-4"	6	2 1/2" THREAD	D.I. INLET PIPE
ANC-8	4	4		1" φ	2'-9"	29	2 1/2" THREAD	ROOF FOR WIREWINDER
ANC-9	4	4		1" φ	6'-4"	68	2 1/2" THREAD	ROOF FOR WIREWINDER
ANC-10	8	9		5/8" φ	4'-4"	41	2 1/2" THREAD	AT INLET PIPE

LEGEND

- STOP AND COAT WIRE
- ▲ DIRECTION OF APPLICATION
- DIE ON TOP OF MACHINE
- DIE ON BOTTOM OF MACHINE
- \* - WIRES ANCHORED TO STRESS PLATE

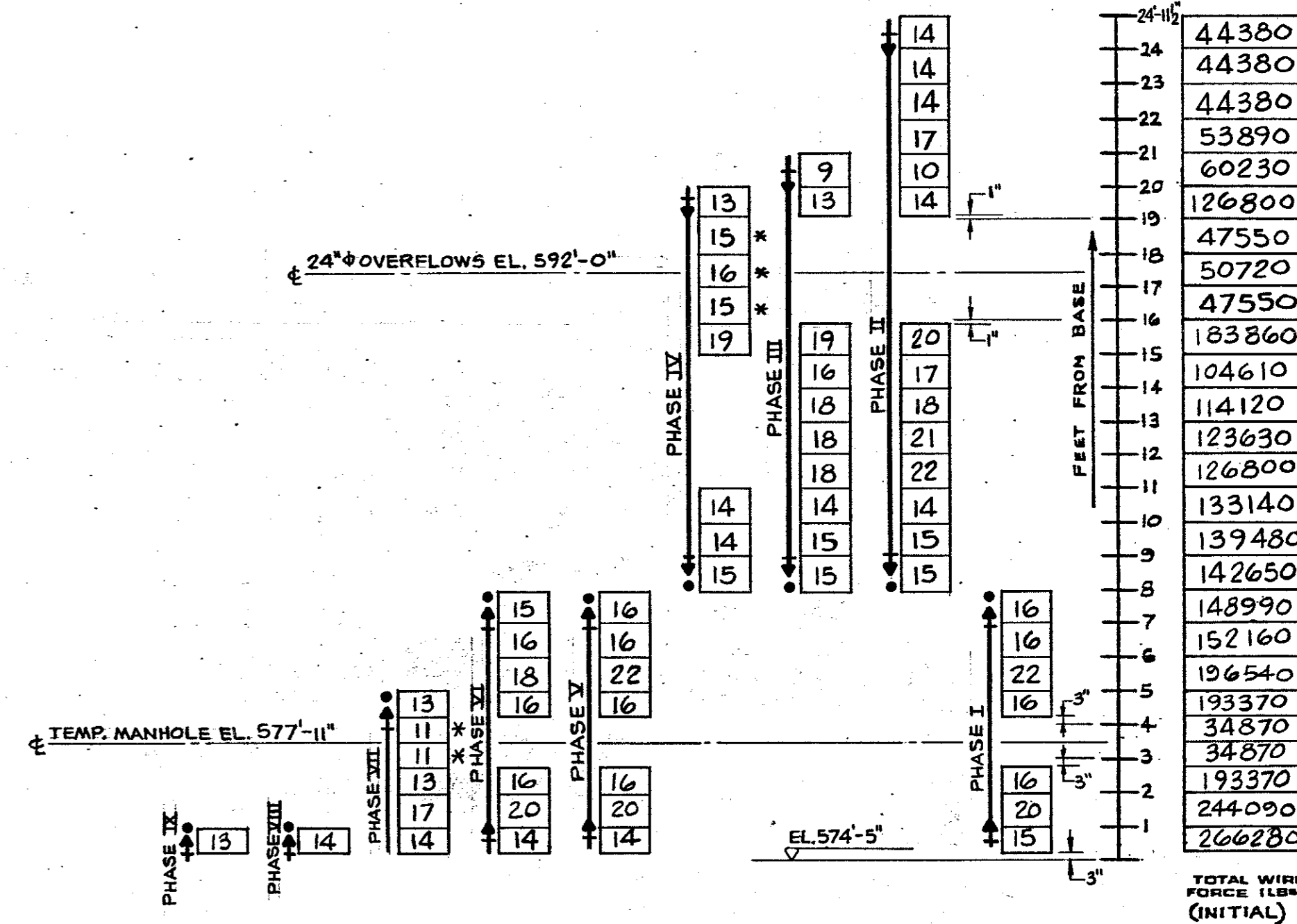
TEMPORARY MANHOLE PRESTRESSING PROCEDURE

- Weld bottom half of clamps to stress plate using E70XX electrodes. All welding shall be in accordance with ANSI/AWS D-1-1-81.
- Wrap wires over temporary manhole making sure wires drop into threaded slots of the clamps.
- Install top half of clamps and tighten with bolts.
- Cut wires 1" from edge of clamps as shown.
- Wires to be cut starting at center line of opening alternating wires above and below opening (maximum unbalanced load = 2 wires).
- Apply pneumatic mortar to cover wires, anchorages and temporary manhole.

PRESTRESS WIRE QUANTITIES

PHASE	WALL		DOME RING		TOTAL	REMARKS	
	WRAPS	WEIGHT	WRAPS	WEIGHT			
I	121	5671					
II	225	10545					
III	155	7264					
IV	121	5671					
V	120	5624					
VI	115	5390					
VII	79	3702					
VIII	14	656					
IX	13	609					
TOTAL	963				963	TOTAL WRAPS	
TOTAL		45132			45132	TOTAL WEIGHT	
WEIGHT OF WIRES/LFT		0.164 = 0.07188		LFT OF WIRE / WRAP = $\frac{206 \times 2(0.71)}{2 \times \pi} \times \pi = 652'$		I.D. + (2 x WALL THICK)	

TOTAL OVERALL HEIGHT OF PRESTRESS PHASES = 73'



WIREWINDING SCHEDULE

- NOTES:
- WIREWINDING SCHEDULE IS BASED ON A WIRE DIAMETER OF 0.164" SIZES AND NUMBERS MAY BE ALTERED AS NECESSARY TO ATTAIN PROPER TOTAL INITIAL FORCE.
  - INITIAL FORCE IN WIRE (BASED ON SIZES INDICATED): WALL --- 3170 LBS.
  - INITIAL UNIT STRESS IN WIRE NOT TO EXCEED 155,000 P.S.I.
  - PROVIDE ONE INCH PNEUMATIC MORTAR PROTECTIVE COVER OVER OUTERMOST LAYER OF WIRES.
  - WIREWINDING SEQUENCE SHOWN SHOULD NOT BE ALTERED WITHOUT PRIOR APPROVAL BY PRELOAD ENGINEERS.

WORKING DRAWING

ONE 6.0 M.G. WATER STORAGE TANK  
ADDISON, TEXAS  
TEMPORARY MANHOLE PANEL  
AND WIREWINDING SCHEDULE

DESIGNED: PV  
CHECKED: RAO  
SCALE: NONE  
DATE: 4-24-86

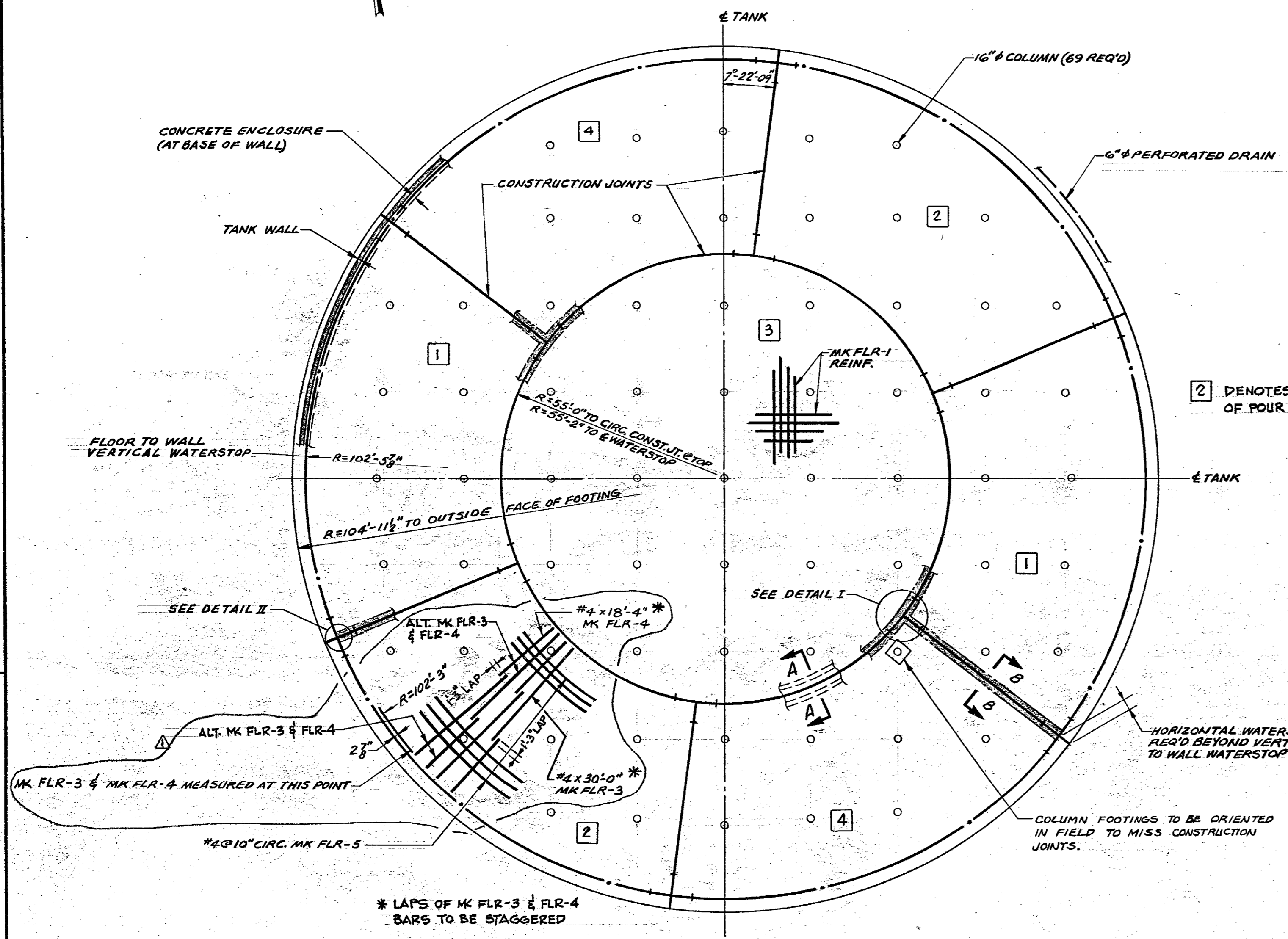
CONTRACT NUMBER: 86 PE004  
DRAWING NUMBER: TEX 83-007-3

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
1	5/19/86	REV. NOTE - TEMP. MANHOLE PANEL	E	RAO

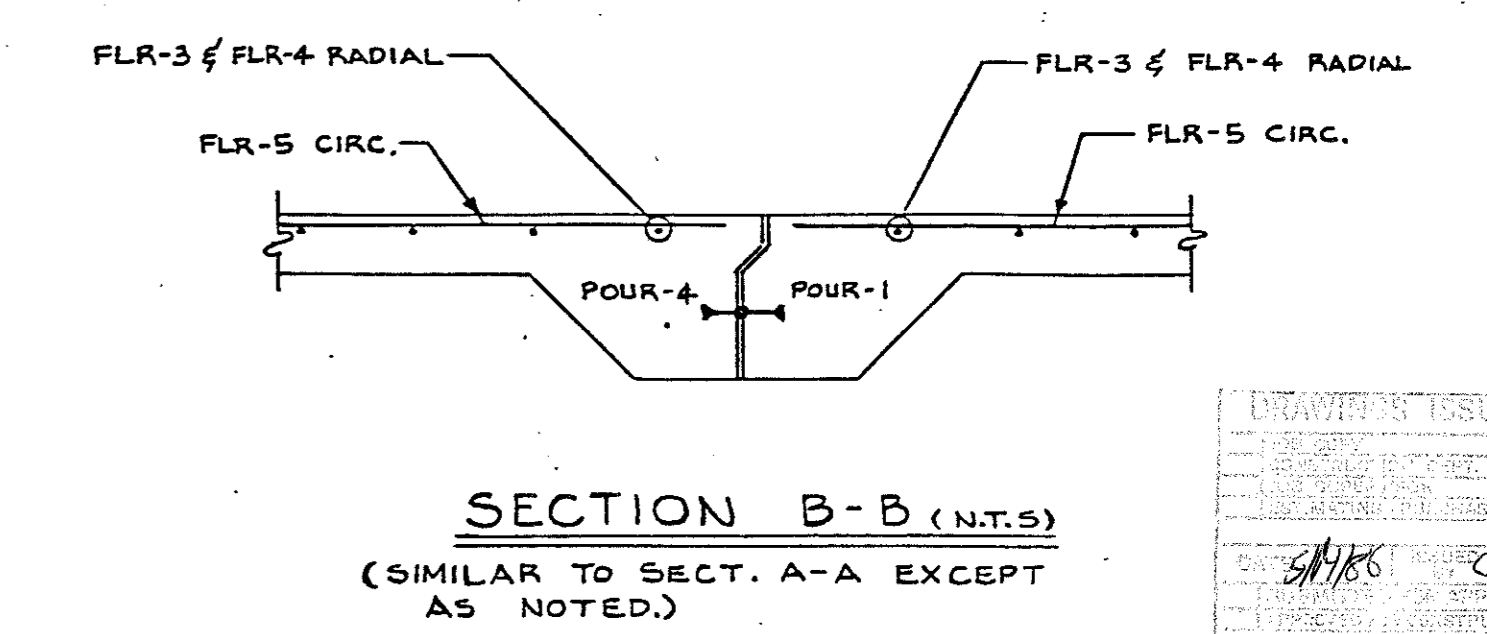
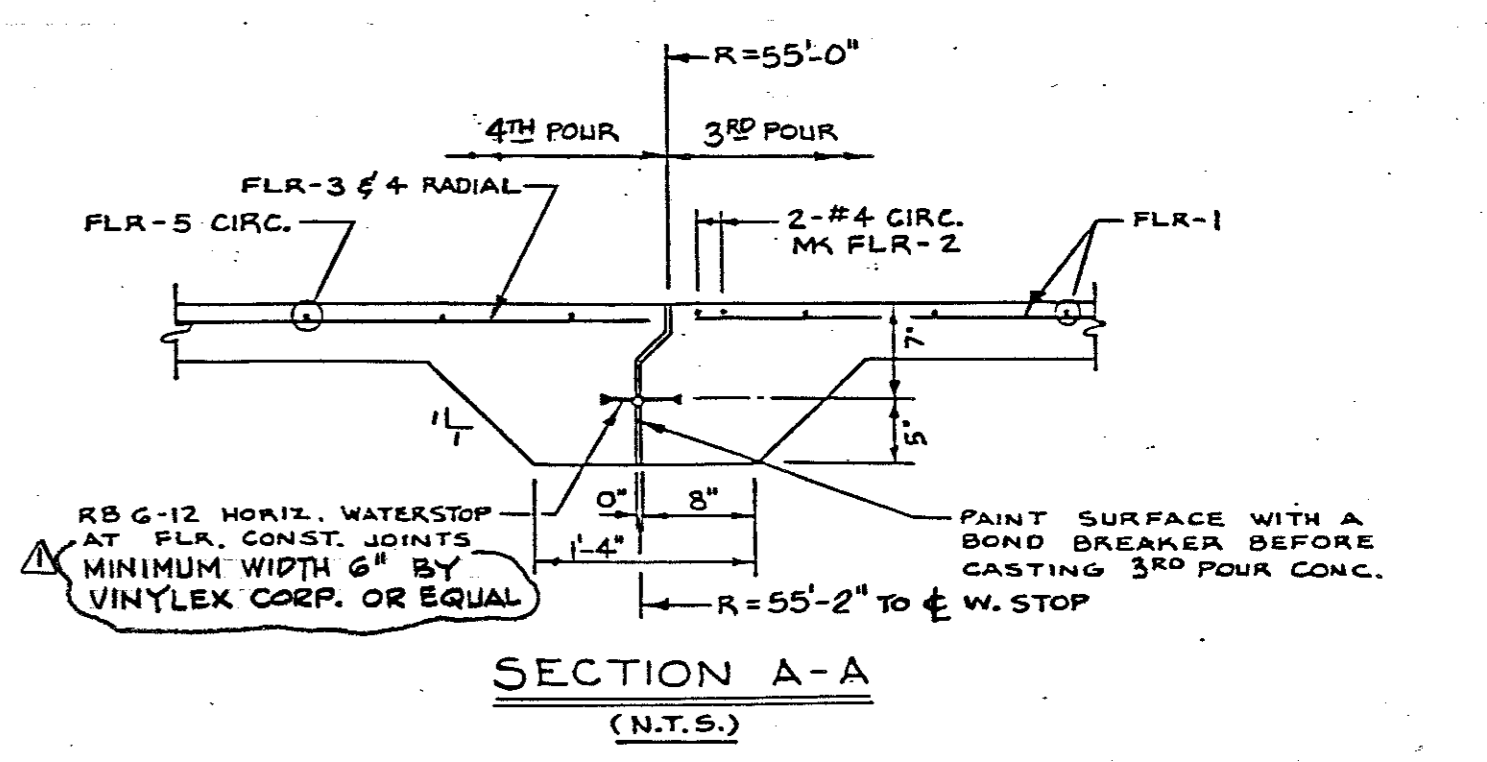
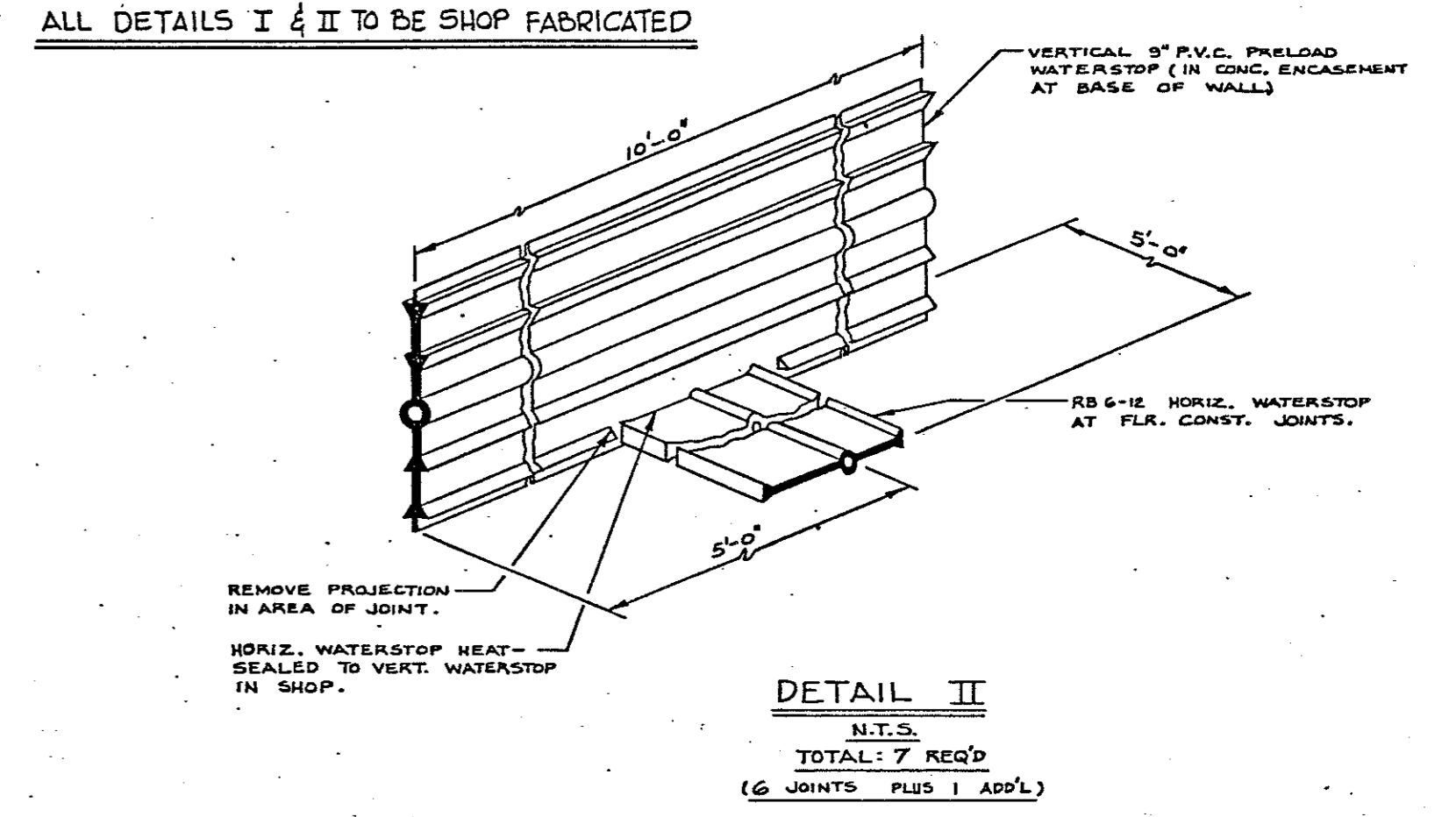
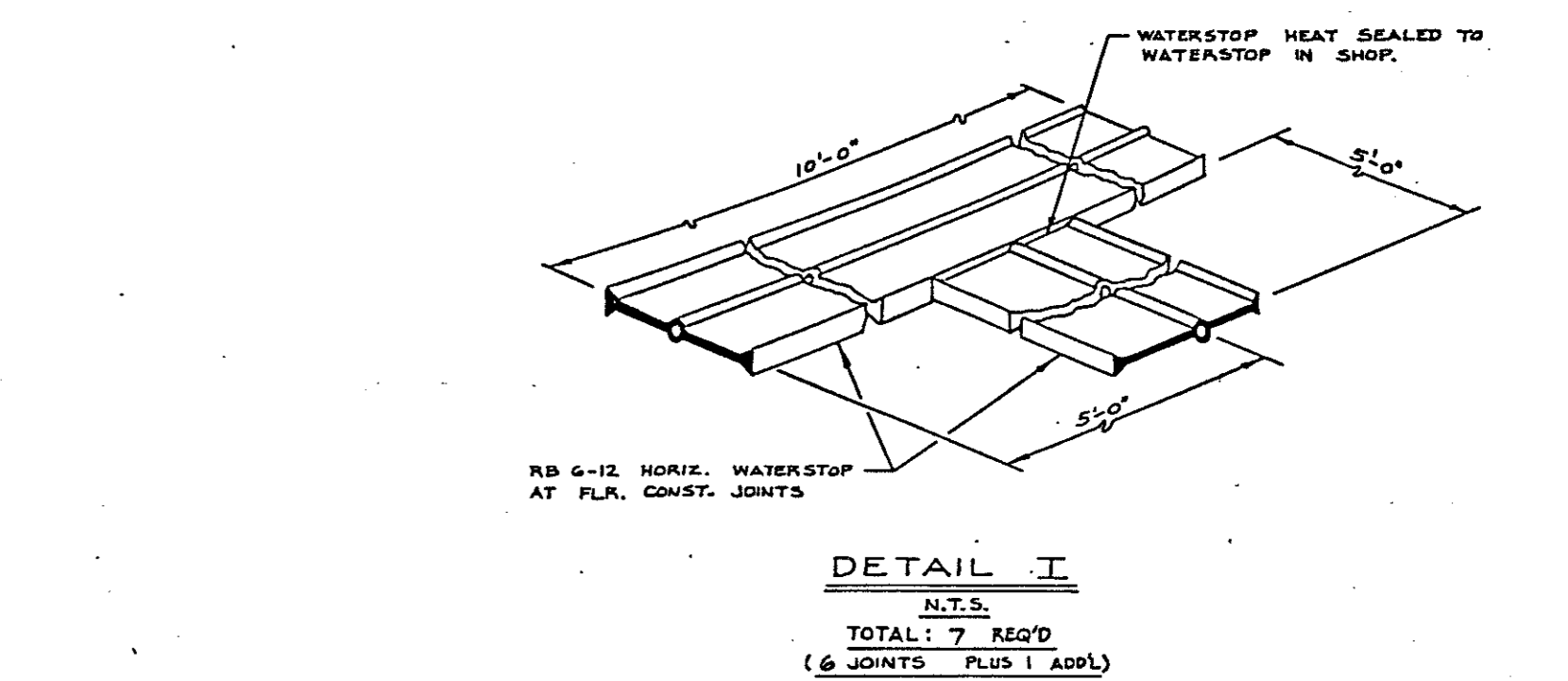
**PRELOAD**

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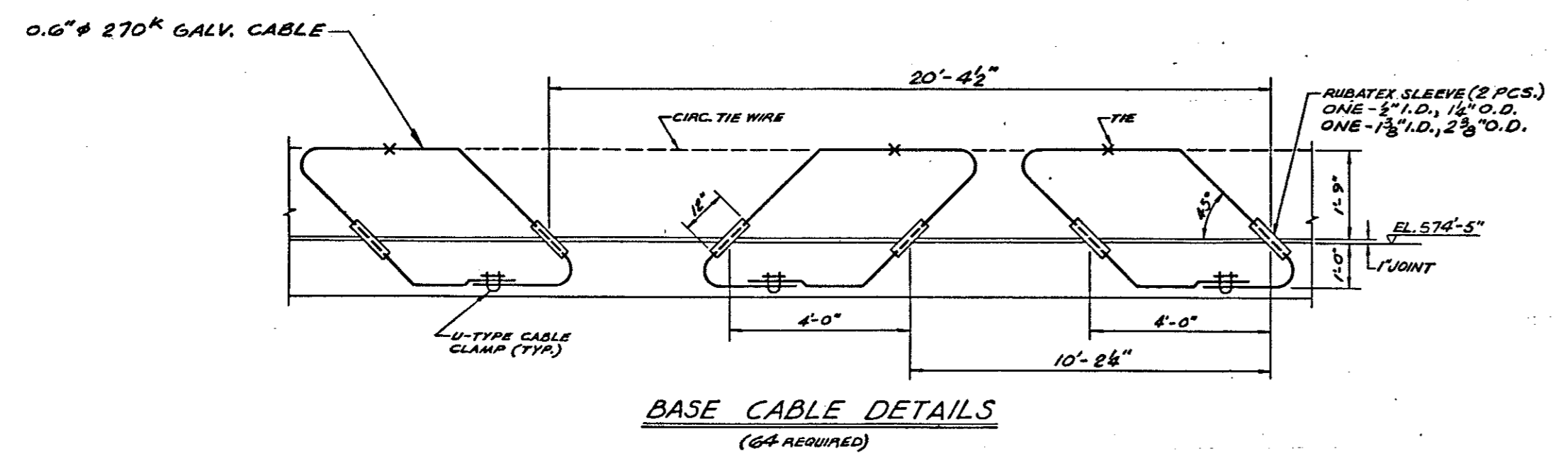
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CONCRETE QUANTITIES	
ITEM	CU. YDS.
FLOOR & FOOTING	540.6
PIPE ENCASEMENT	15.9
WALL PANELS	381.8
CURB	15.0
COLUMN FOOTINGS	54.6
COLUMNS	99.8
ROOF SLAB	793.4
TOTAL YARDAGE (NEAT)	1901.1



**FLOOR JOINT LAYOUT**  
SCALE: 1"=20'

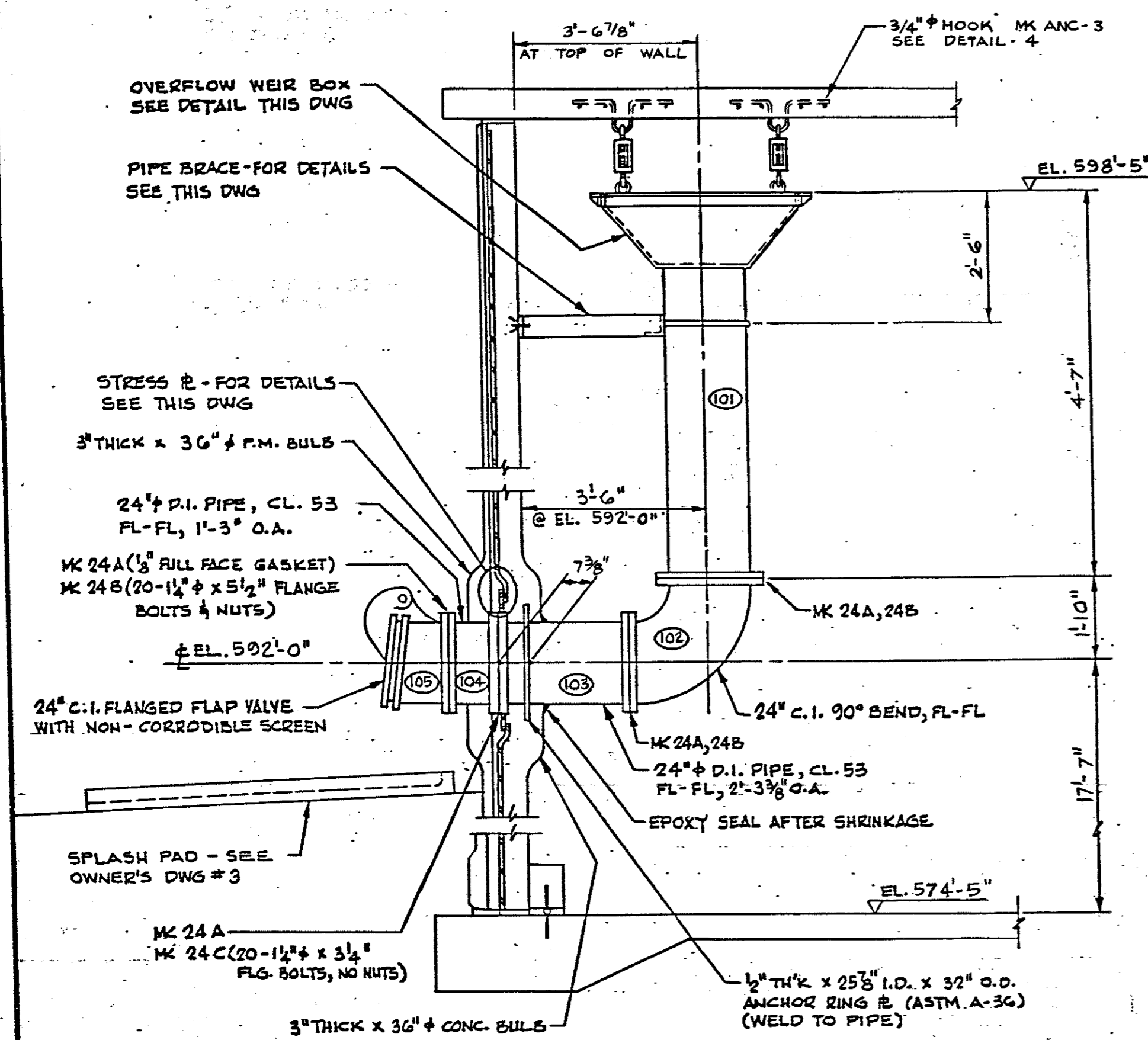


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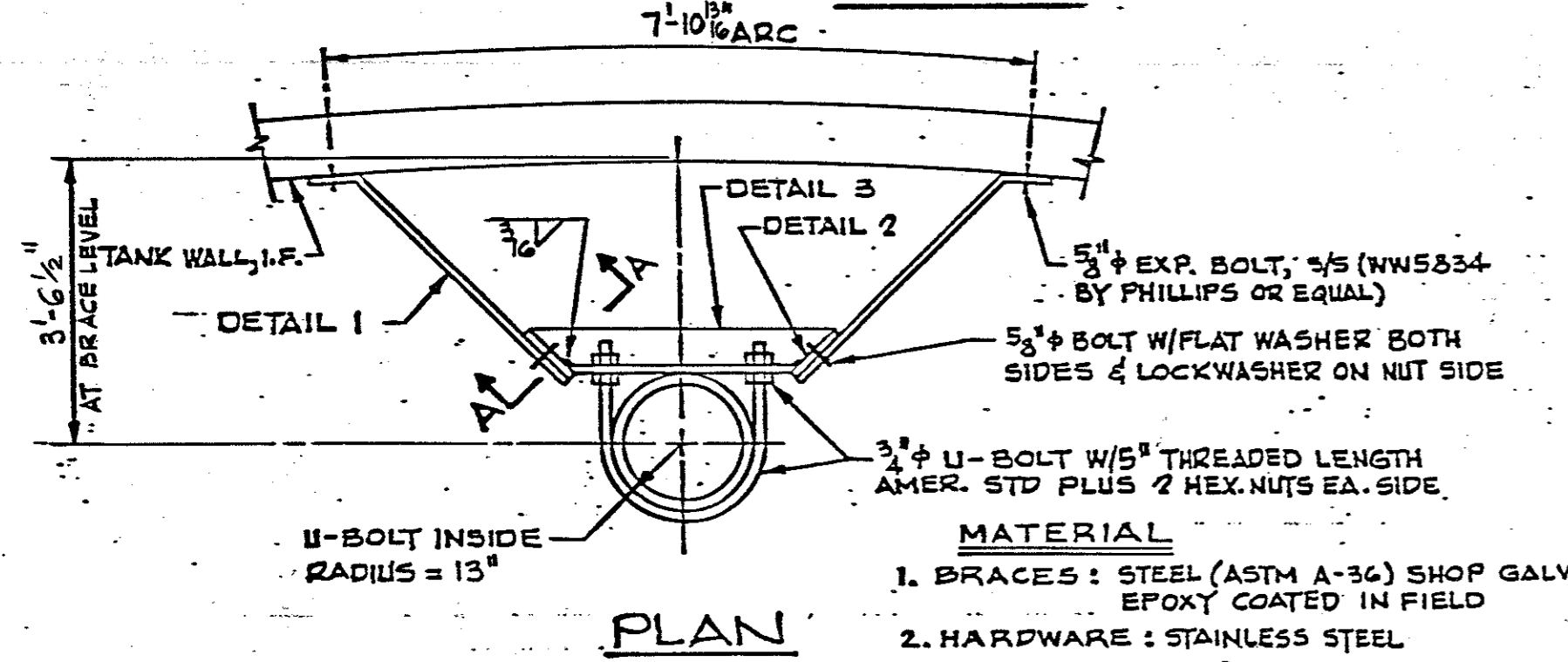
REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
1	5/13/86	REV. FLOOR REINF. & HORIZ. WATERSTOP (SECT. A-A)	E	RAO

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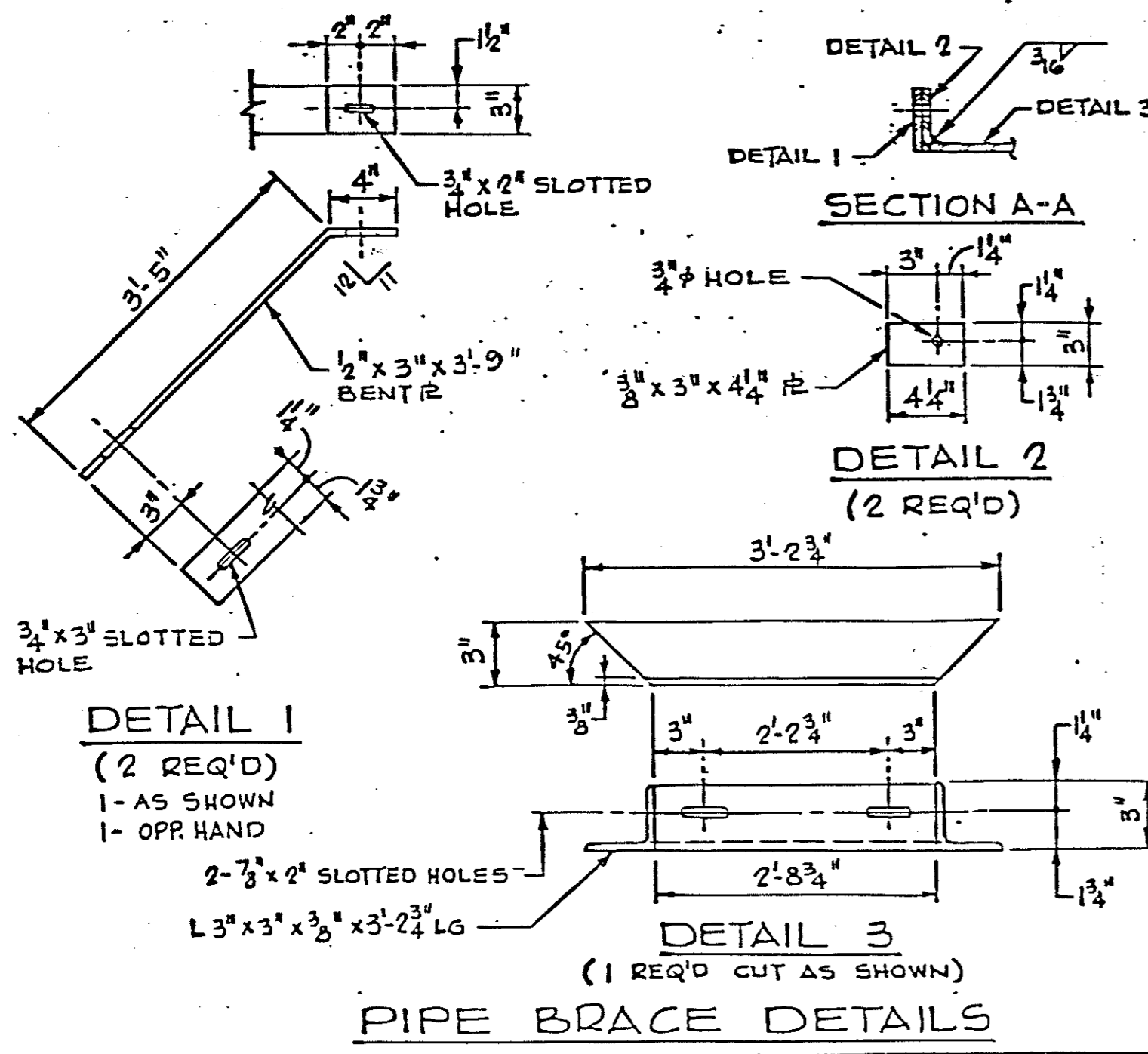
**WORKING DRAWING**  
**ONE 6.0 M.G. WATER STORAGE TANK**  
**ADDISON, TEXAS**  
**FLOOR DETAILS**  
DRAWN: PV SCALE: N.T.S. CONTRACT NUMBER: 86 PE 004  
DESIGNED: FD APPROVED: DATE: 4-24-86 DRAWING NUMBER: 83-007-4  
CHECKED: RAO



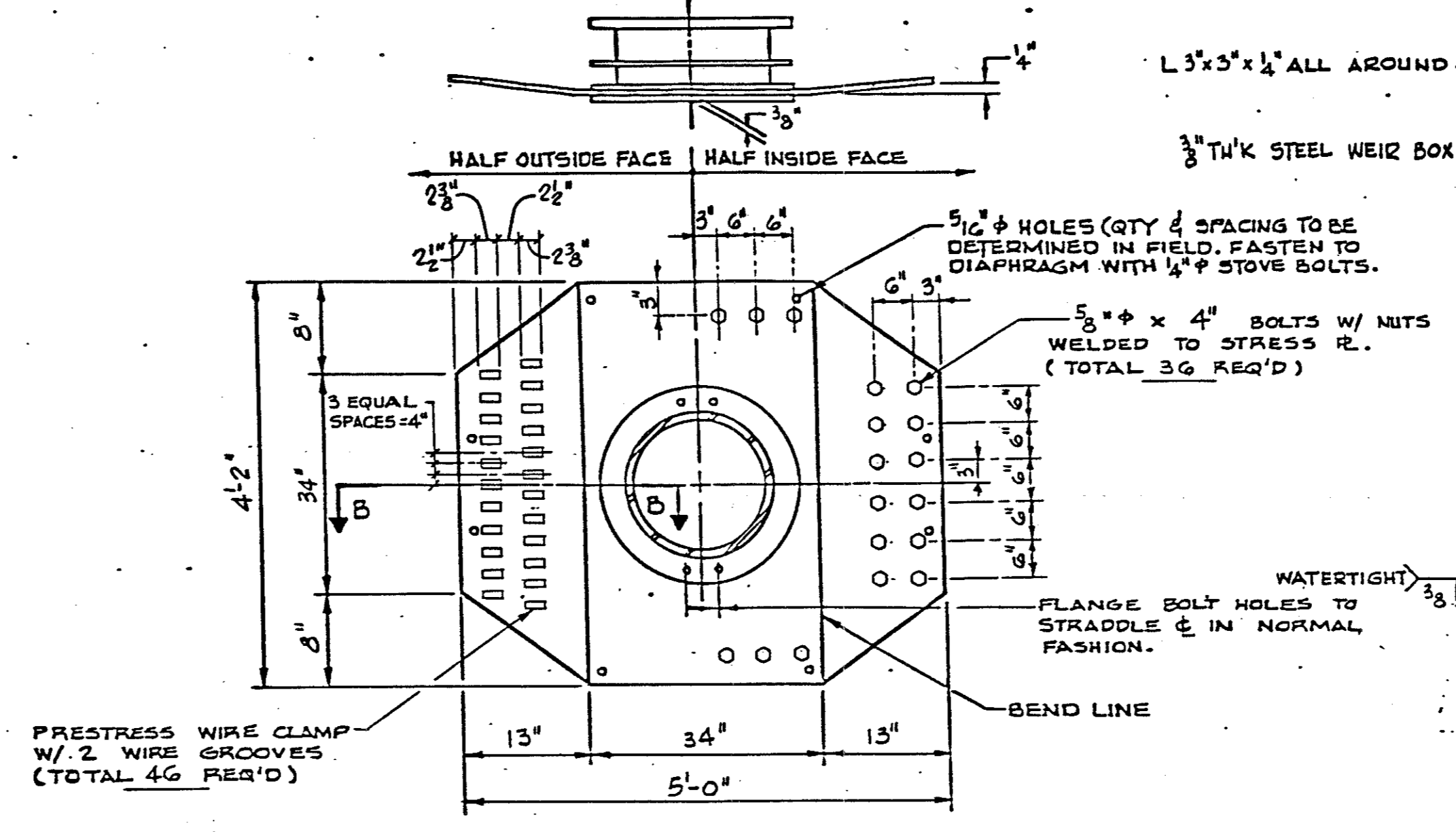
**OVERFLOW PIPE DETAIL**  
(2 REQ'D)



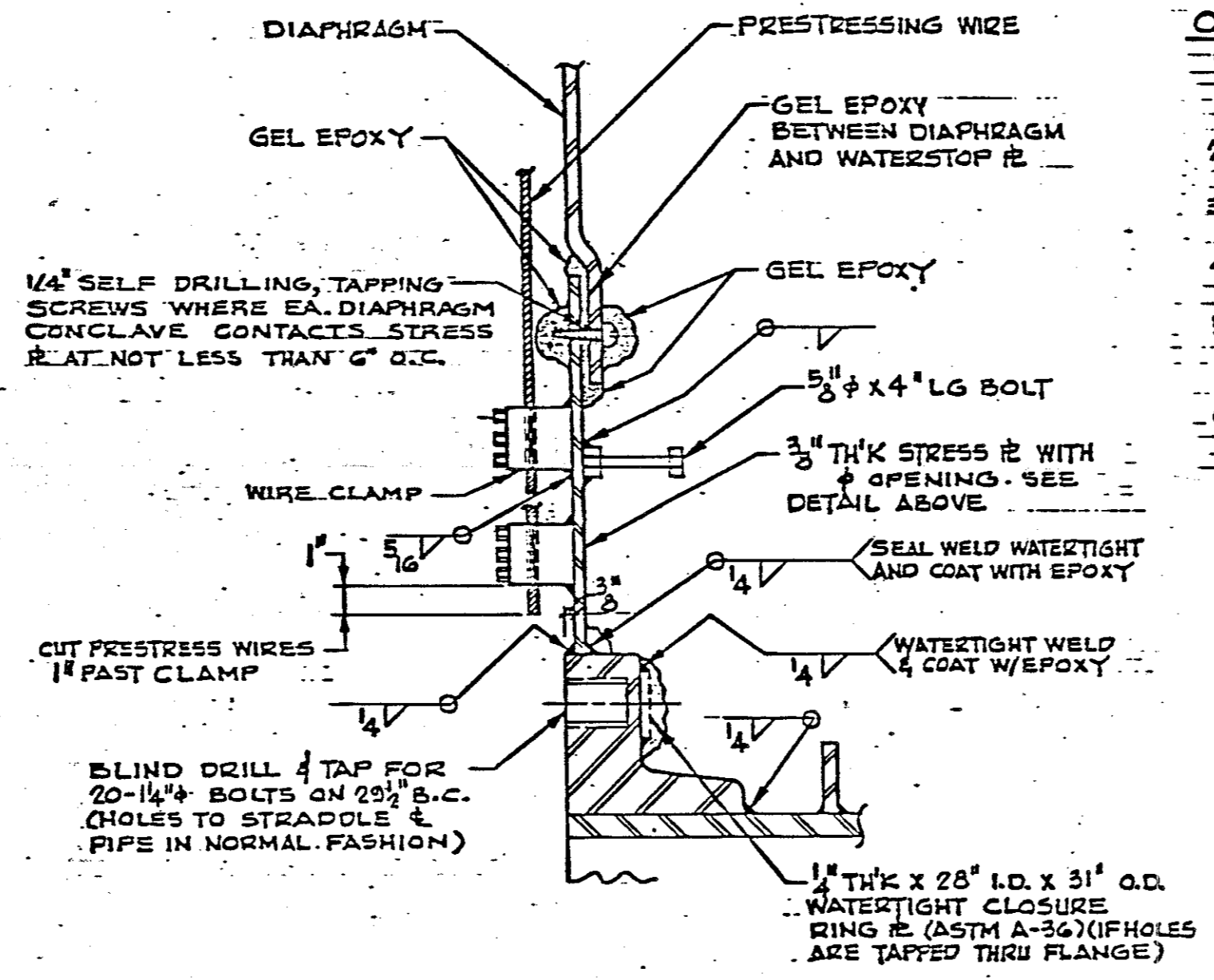
**PLAN**



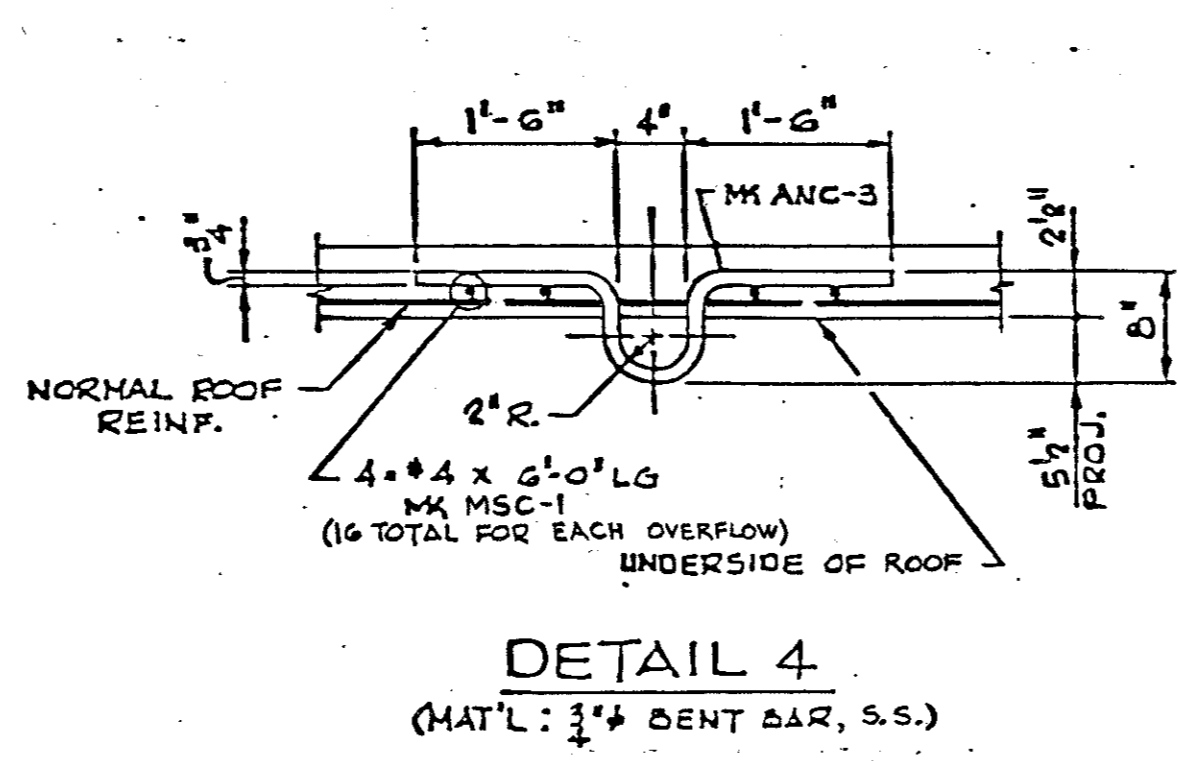
**PIPE BRACE DETAILS**



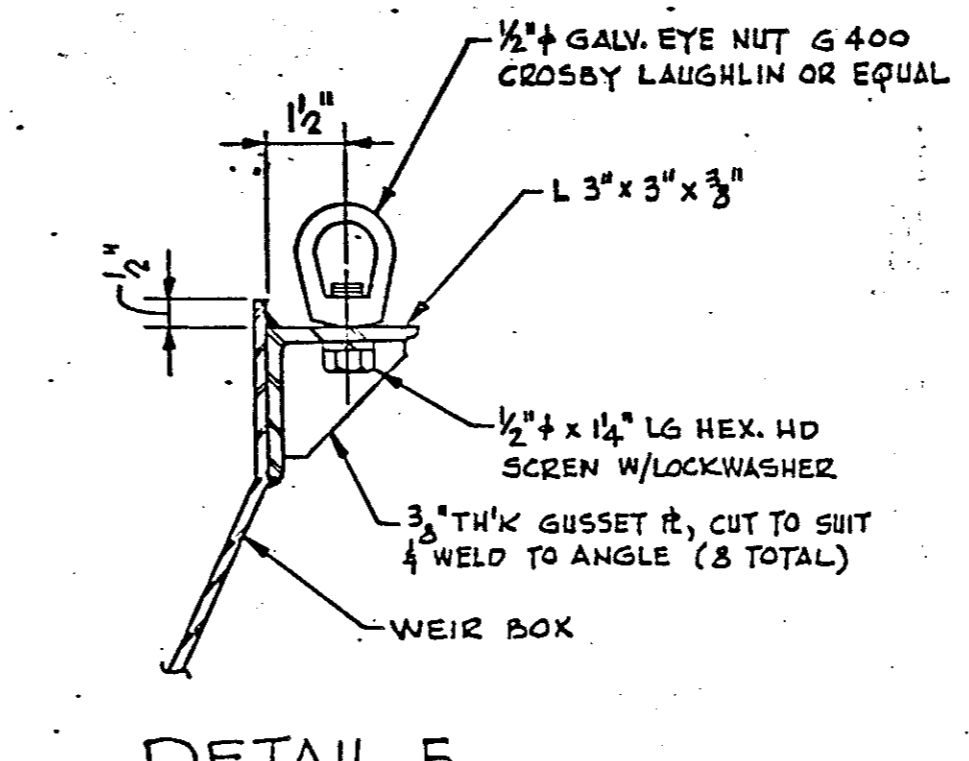
**STRESS PLATE DETAIL**  
1/2" THK R (MAT'L: ASTM A-36) WITH 3/8" Ø HOLE FOR 24" FLANGE.



**SECTION B-B**



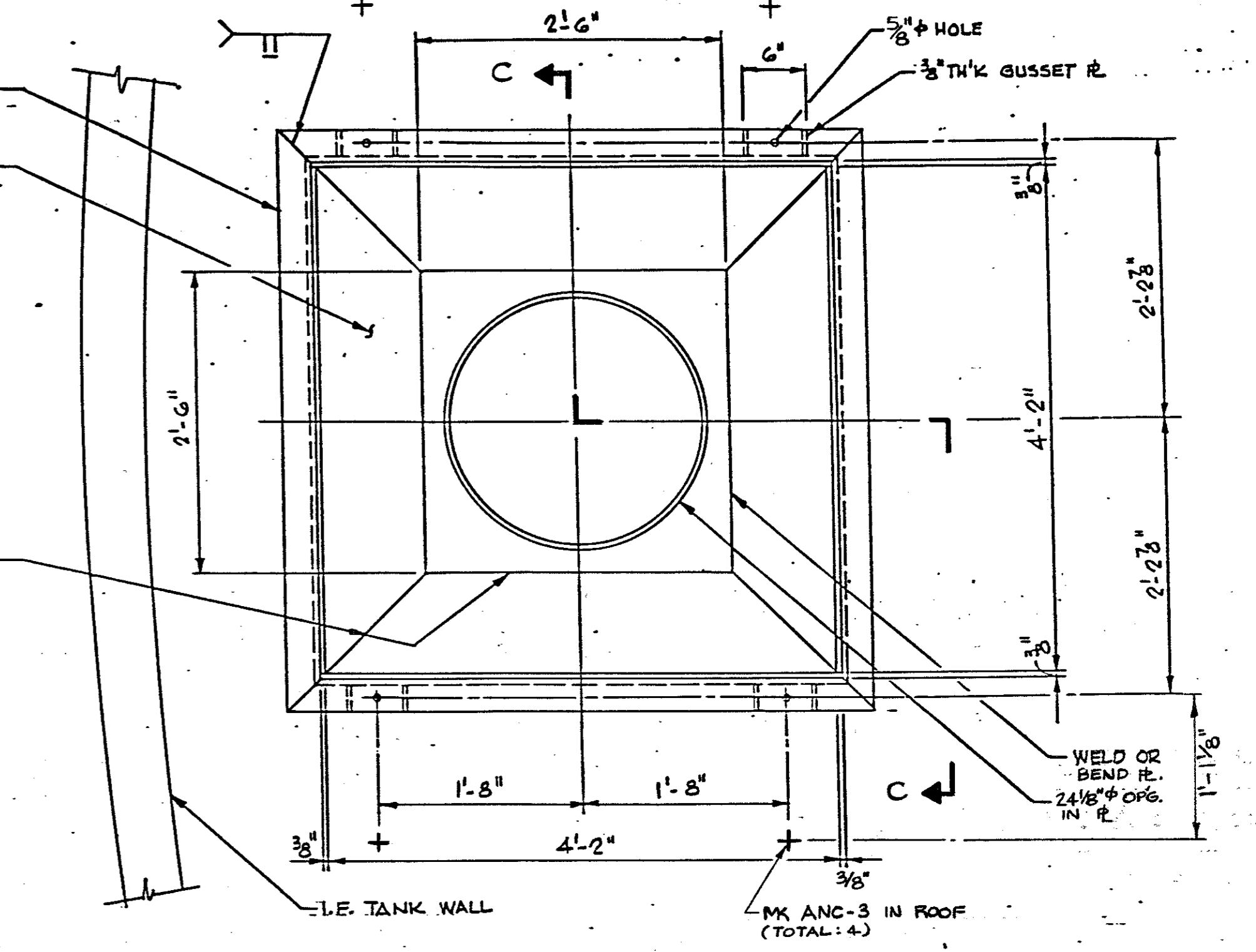
**DETAIL 4**  
(MAT'L: 3/4" BENT BAR, S.S.)



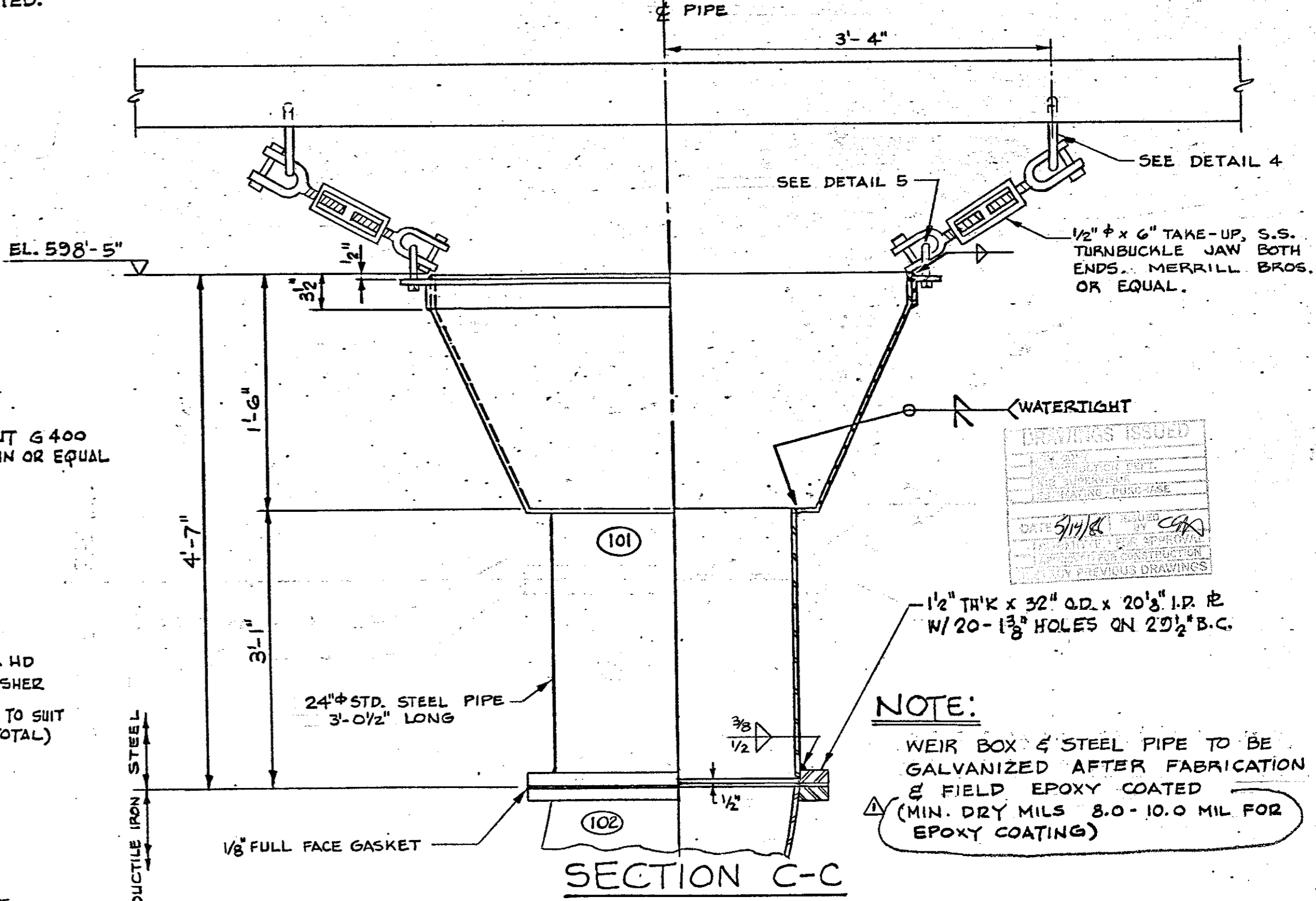
**DETAIL 5**

**PIPING NOTES:**  
1. ALL DUCTILE IRON PIPING TO HAVE 2 COATS OF EPOXY (ONE SHOP & ONE FIELD COAT) ON OUTSIDE FACE AND CEMENT LINED WITH A SEAL COAT OF BITUMINOUS MATERIAL ON INSIDE FACE.  
2. TWO OVERFLOW PIPES W/ WEIR BOXES & BRACES REQUIRED. QUANTITIES SHOWN ARE FOR ONE OVERFLOW ONLY.

**OVERFLOW PRESTRESSING PROCEDURE**  
1. WELD CLAMPS TO STRESS R USING EPOXY. ELECTRODES. ALL WELDING SHALL BE IN ACCORDANCE WITH ANSI/AWS D11.1-81.  
2. WRAP WIRES OVER OVERFLOW, MAKING SURE WIRES DROP INTO SLOTS IN CLAMPS.  
3. INSTALL TOP HALF OF CLAMPS & TIGHTEN WITH BOLTS.  
4. CUT WIRES 1" FROM EDGE OF CLAMPS AS SHOWN.  
5. WIRES TO BE CUT AT CENTER LINE OF OPENING ALTERNATING WIRES ABOVE AND BELOW OPENING (MAX. UNBALANCED LOAD = 2 WIRES).  
6. APPLY PNEUMATIC MORTAR TO COVER WIRES AND ANCHORAGES AFTER PIPE PROJECTING OUTSIDE OF WALL HAS BEEN CONNECTED.



**OVERFLOW WEIR BOX DETAIL**



**SECTION C-C**

**NOTE:**  
WEIR BOX & STEEL PIPE TO BE GALVANIZED AFTER FABRICATION & FIELD EPOXY COATED (MIN. DRY MILS 8.0-10.0 MIL FOR EPOXY COATING)

THE DETAILS SHOWN ON THIS DRAWING SHALL BE PRODUCED WITHIN THE GUIDELINES AND REQUIREMENTS SPECIFIED IN PRELOAD CO. CONSTRUCTION SPECIFICATIONS & PROCEDURES AND CS-289.

NO.	DATE	DESCRIPTION	BY	CHKD
1	3/13/86	REVISED SECT. C-C	E	ZAO

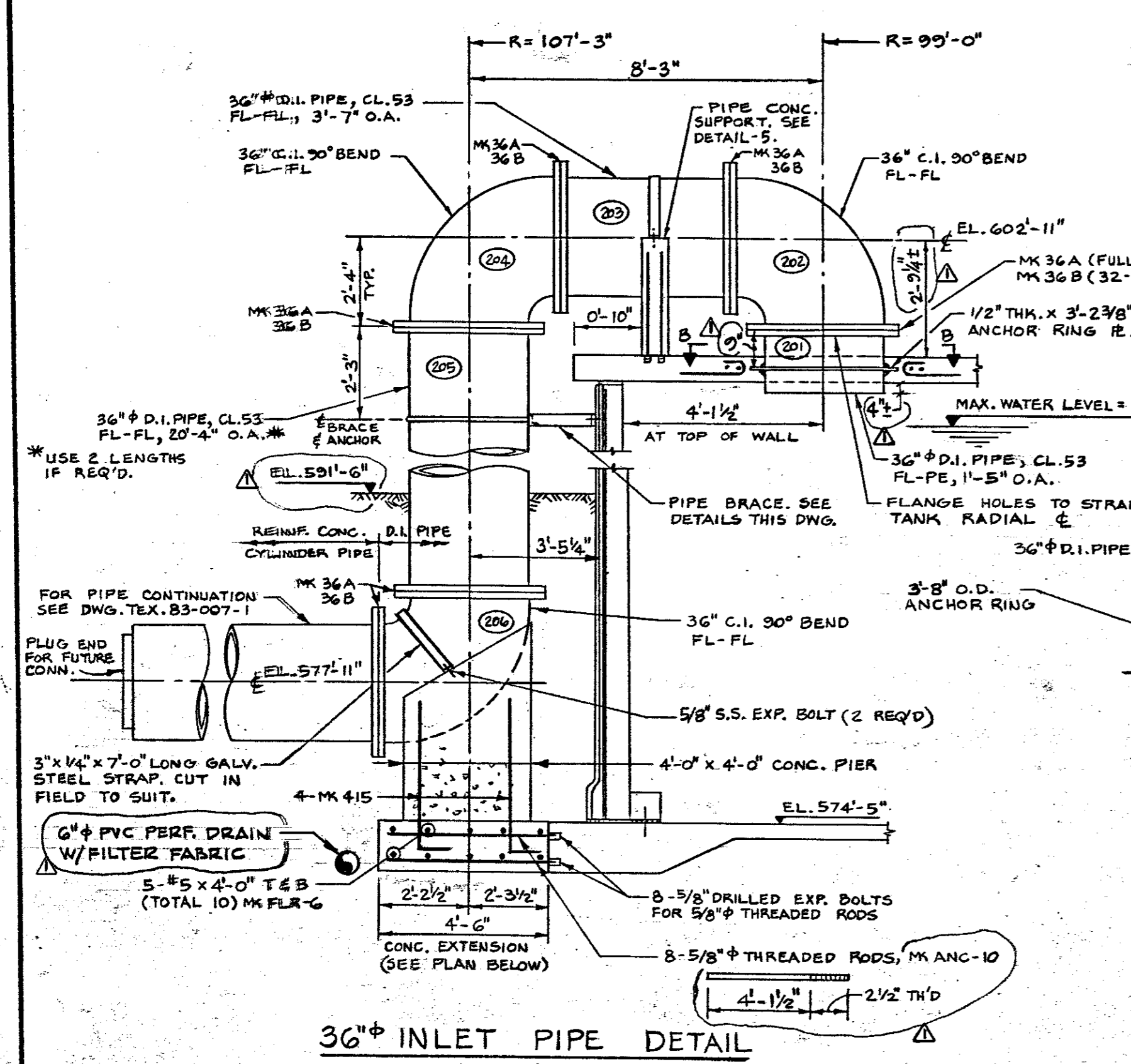
**PRELOAD**  
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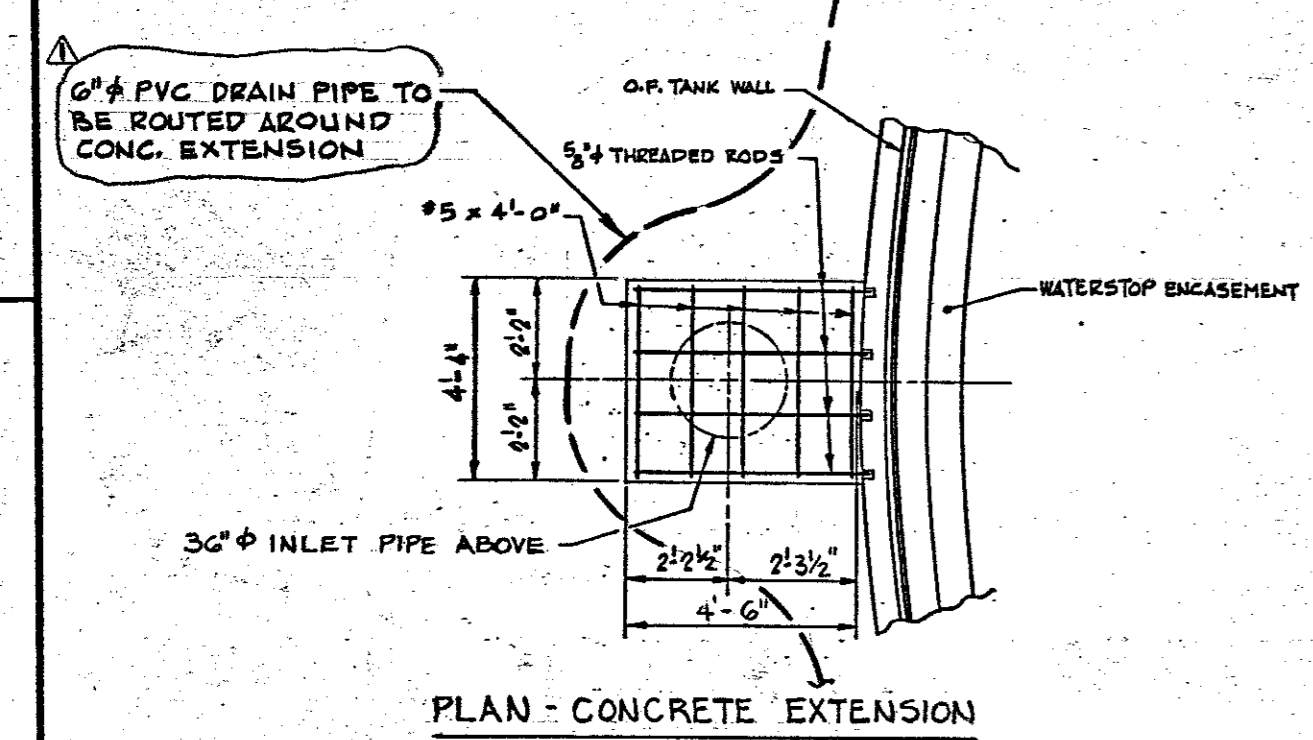
**WORKING DRAWING**  
ONE 6.0 M.G. WATER STORAGE TANK  
ADDISON, TEXAS

**OVERFLOW & WEIR BOX DETAILS**

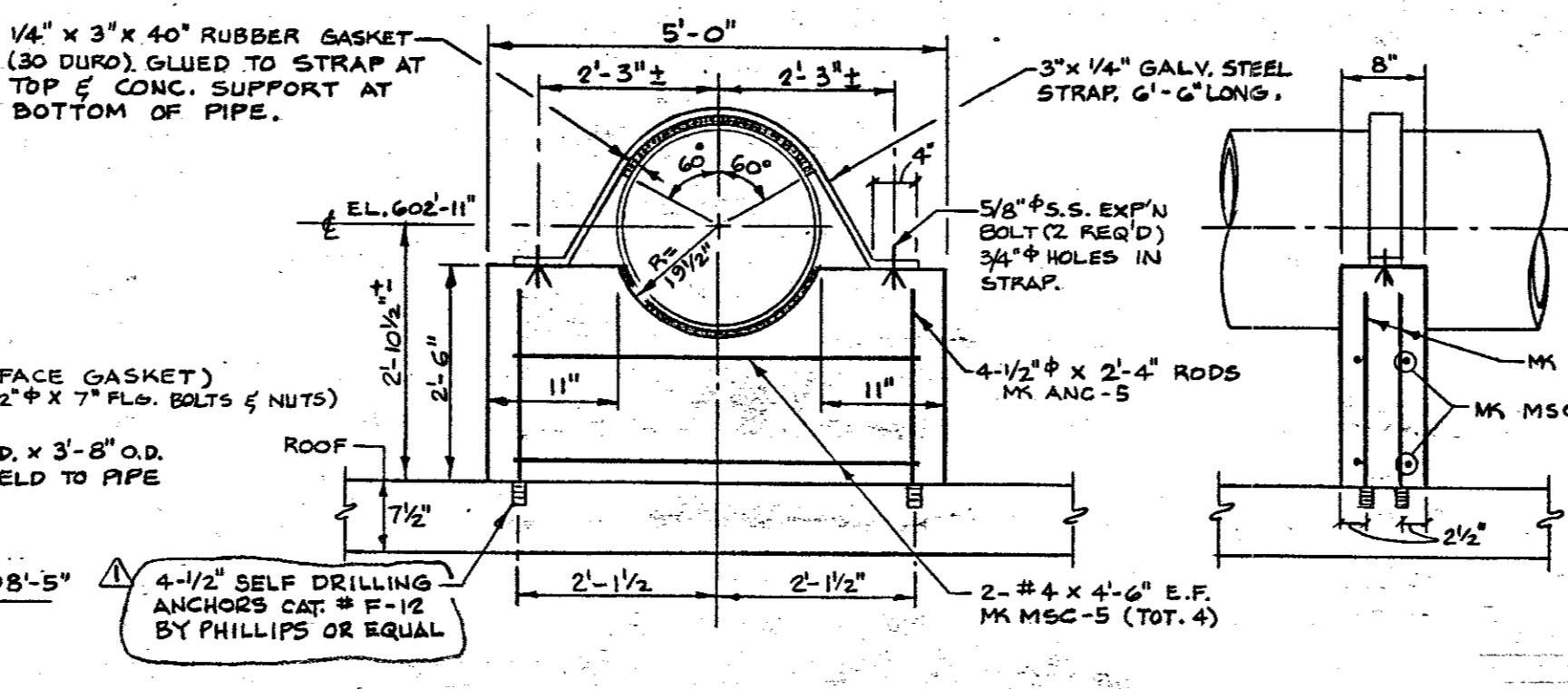
DRAWN: JD	SCALE: N.T.S.	CONTRACT NUMBER: 86 PE 004
DESIGNED: FD	DATE: 4-24-86	DRAWING NUMBER: 83-007-5
CHECKED: RAO		



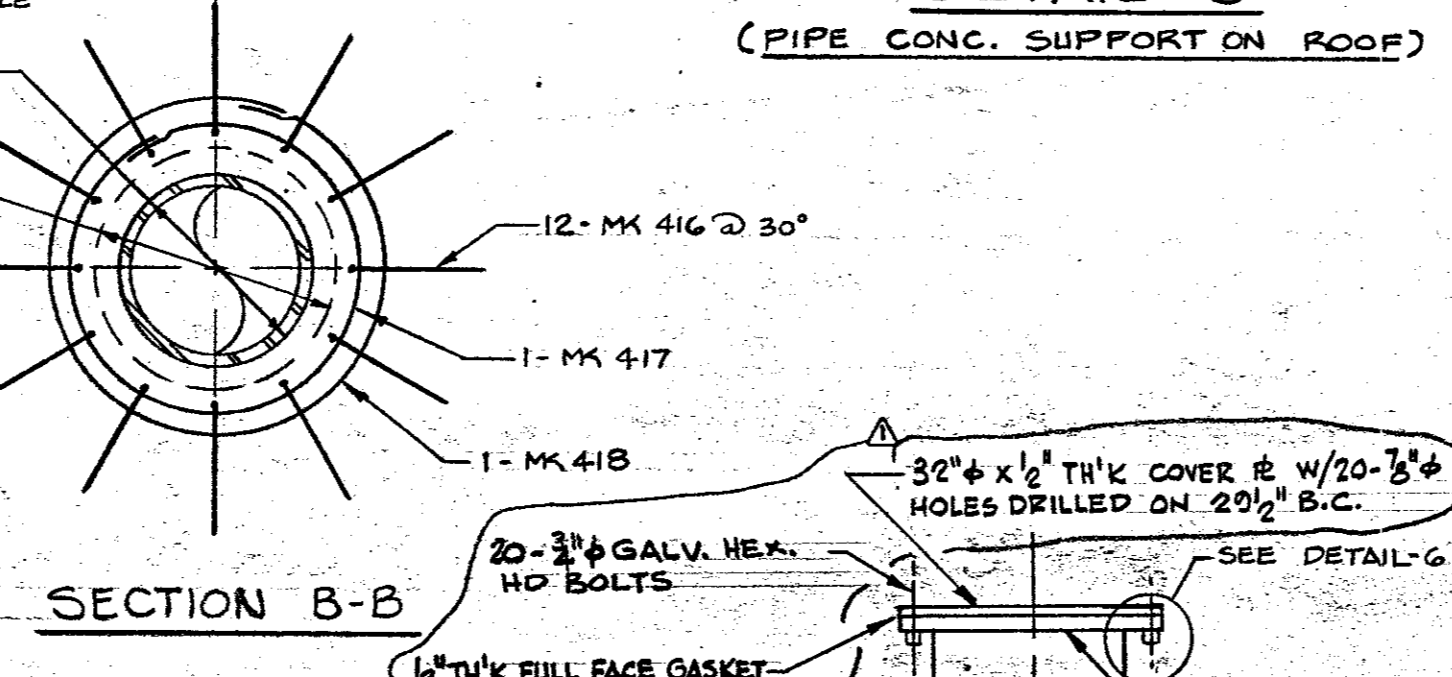
**36" INLET PIPE DETAIL**



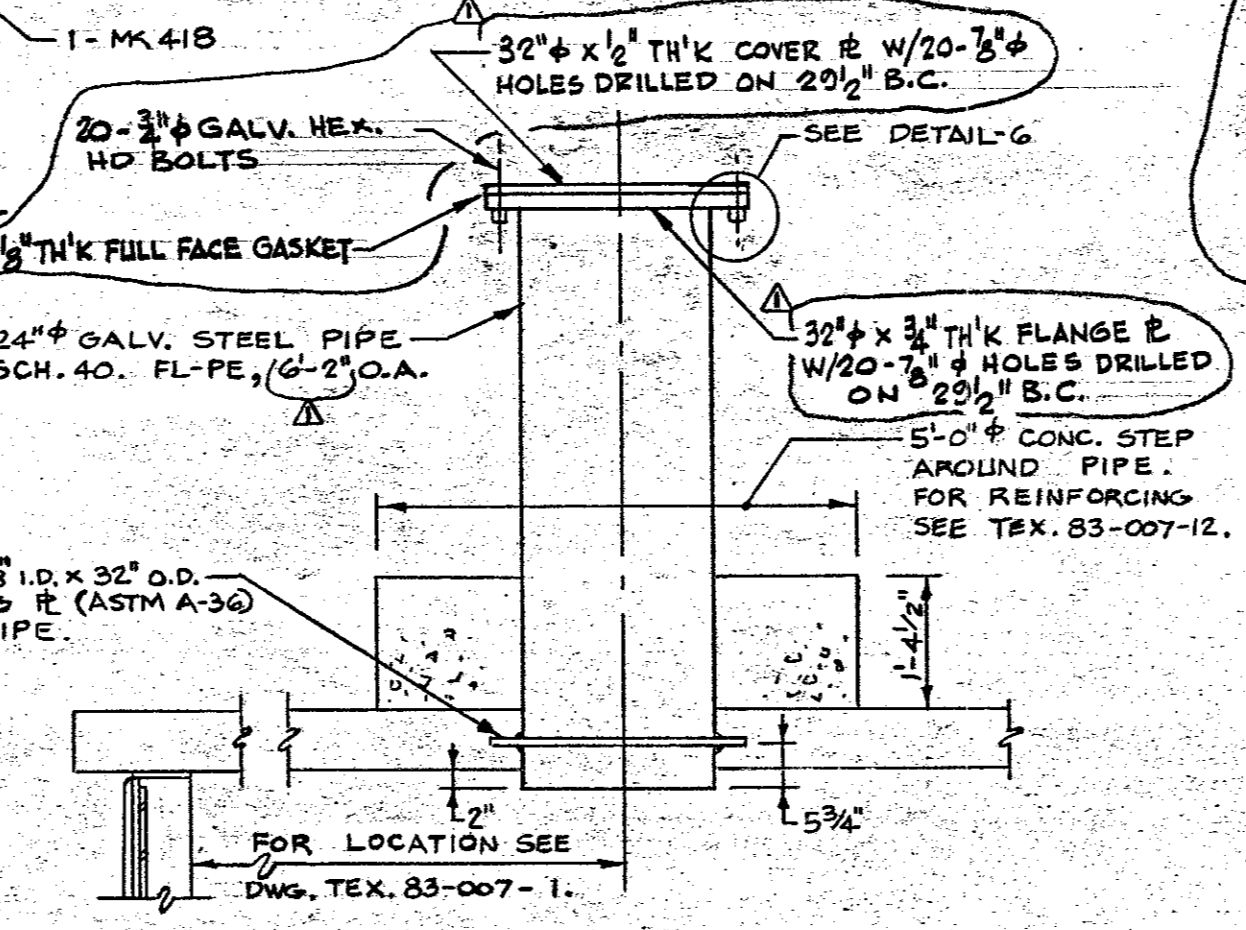
**PLAN - CONCRETE EXTENSION**



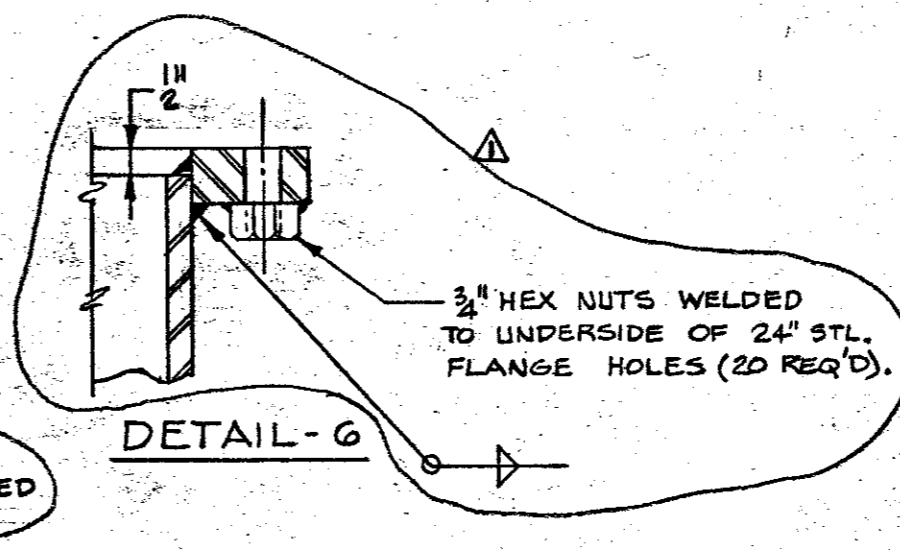
**DETAIL - 5  
(PIPE CONC. SUPPORT ON ROOF)**



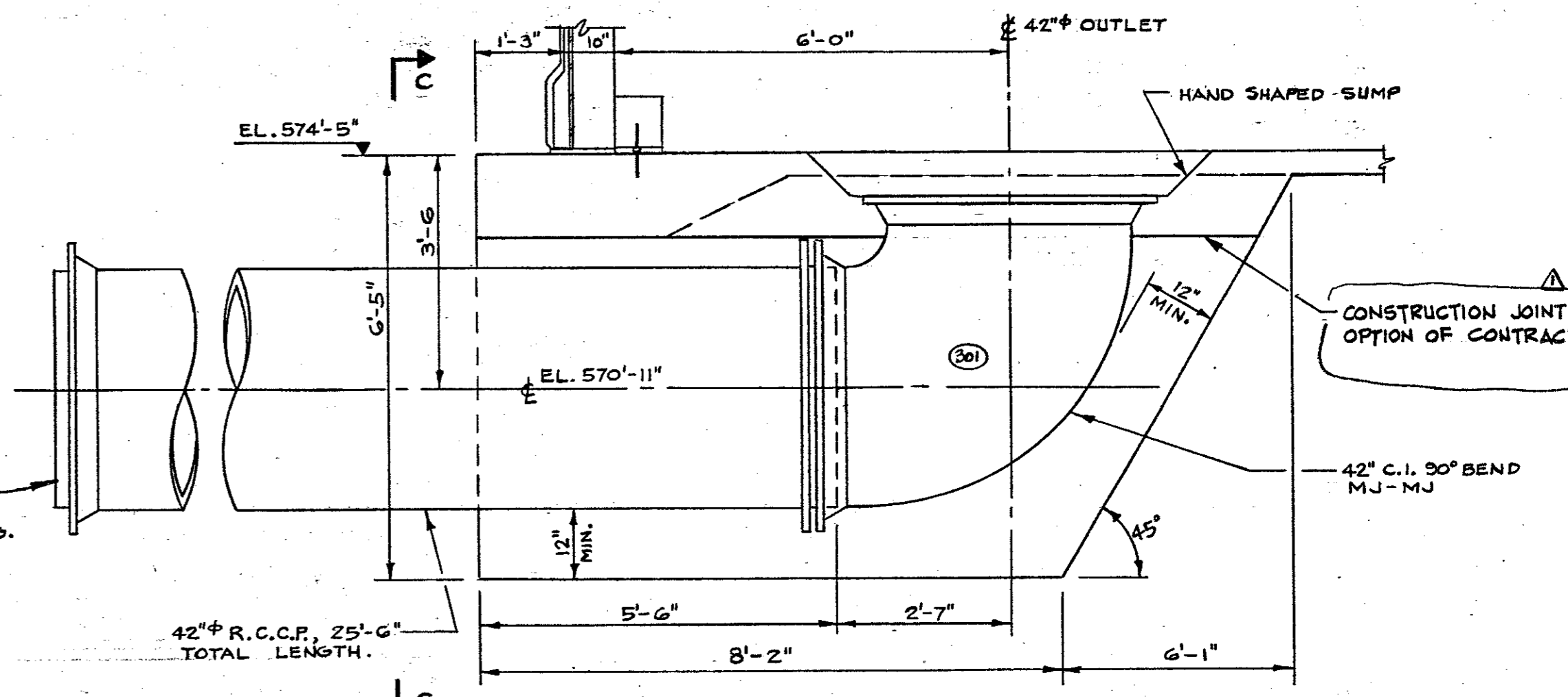
**SECTION B-B**



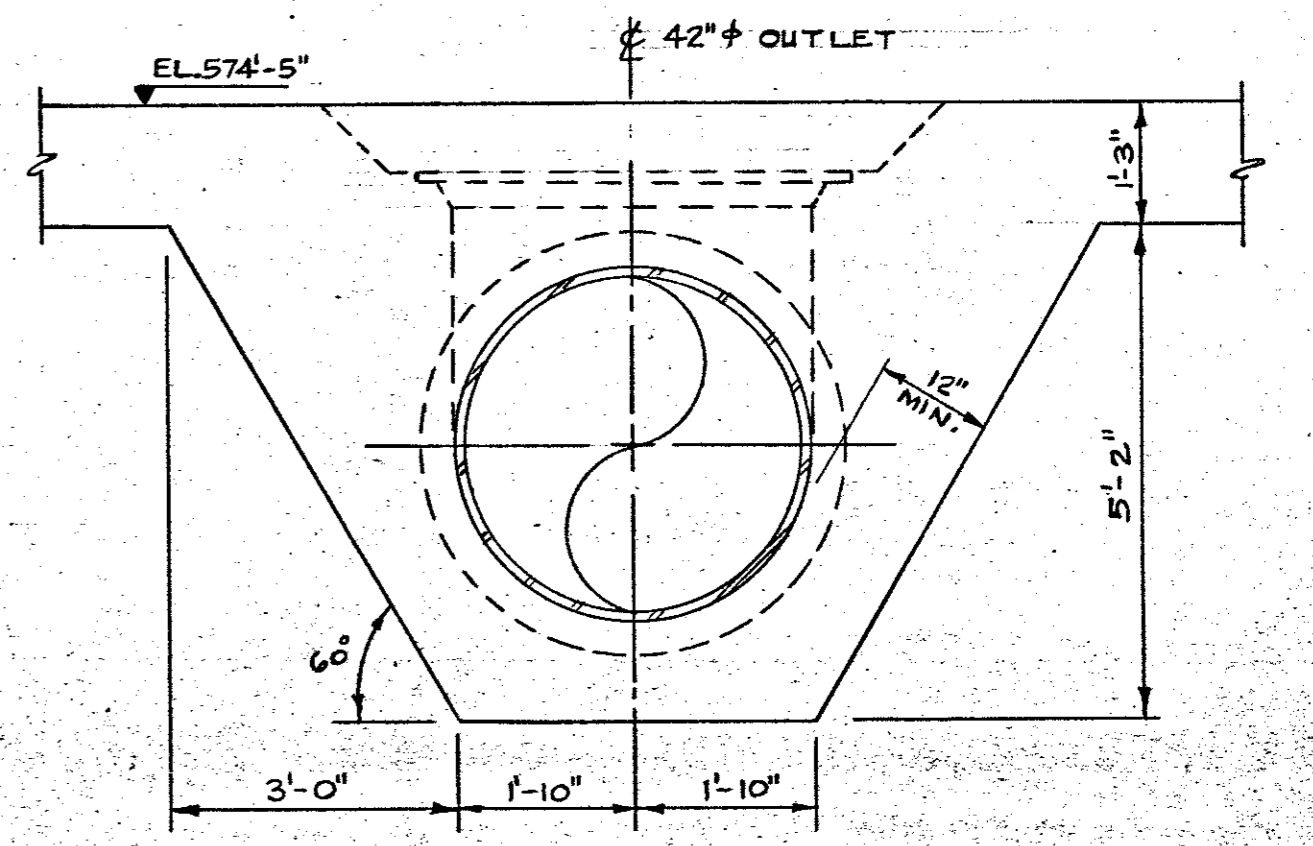
**SONIC LEVEL TRANSMITTER DETAIL**



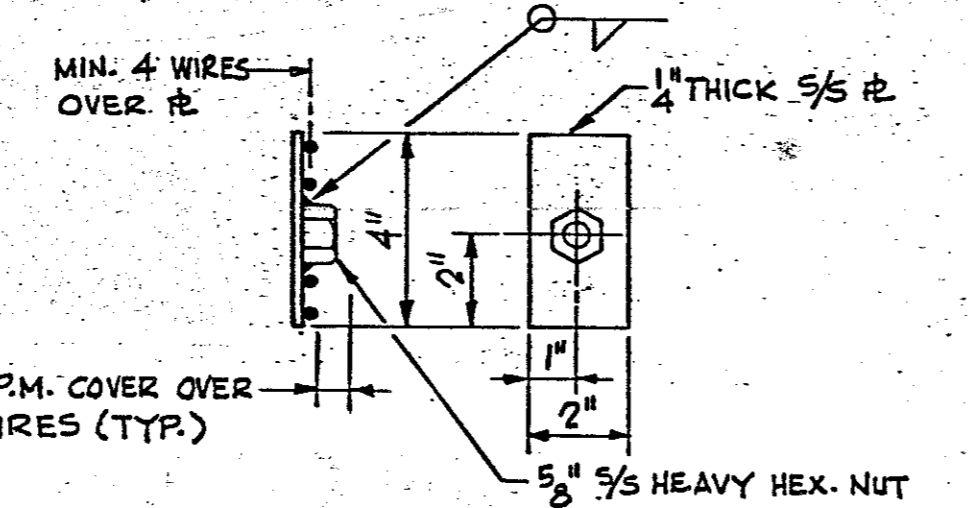
**DETAIL - 6**



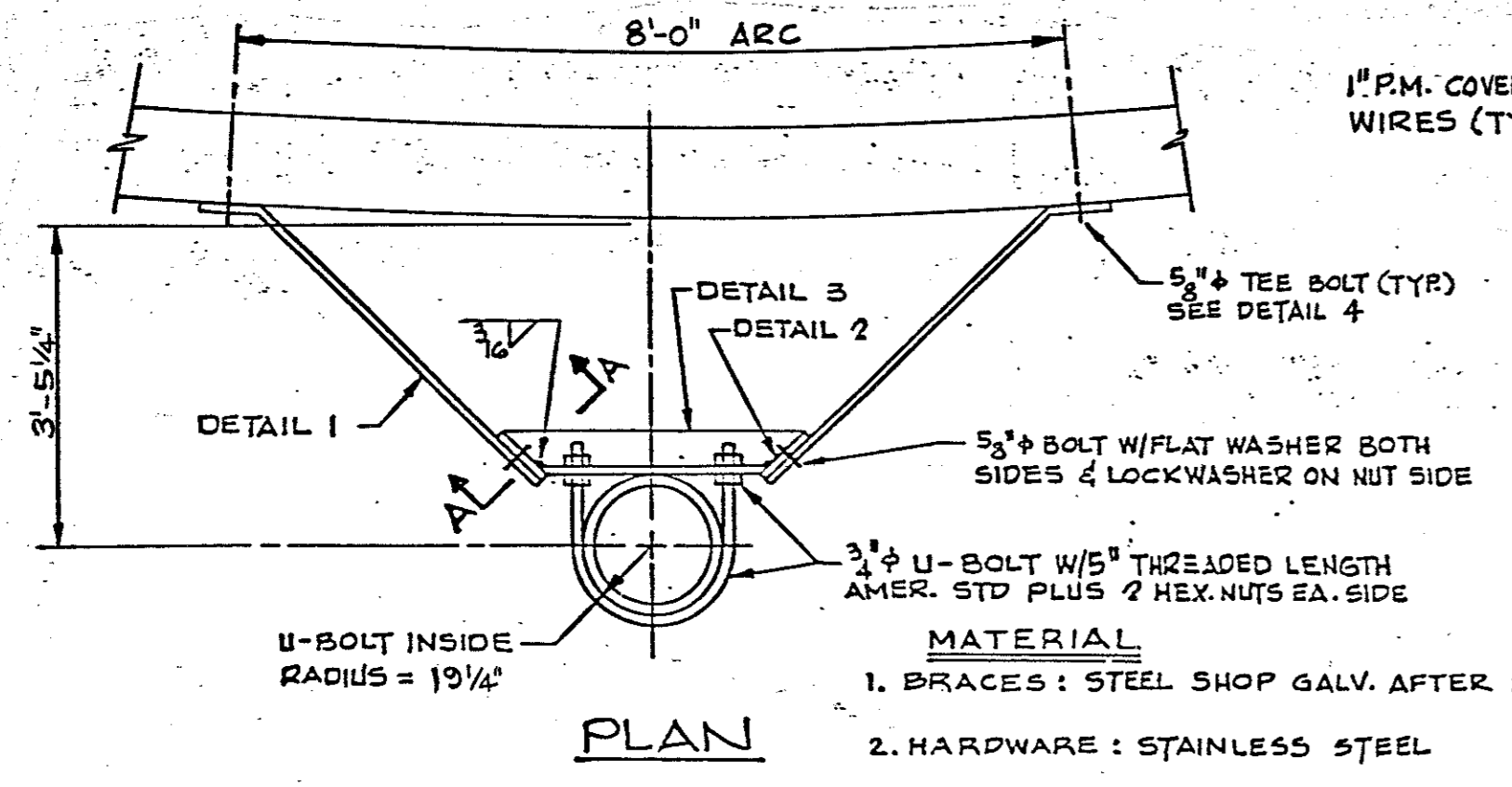
**42" OUTLET PIPE DETAIL  
(2 - REQUIRED)**



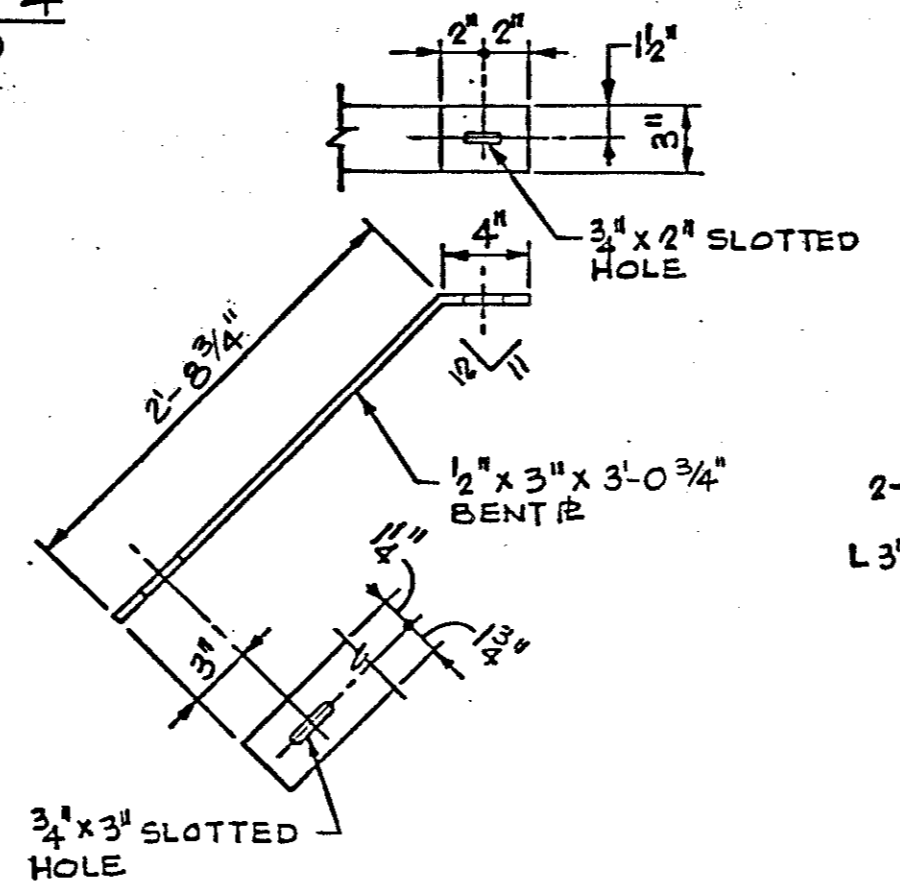
**SECTION C-C**



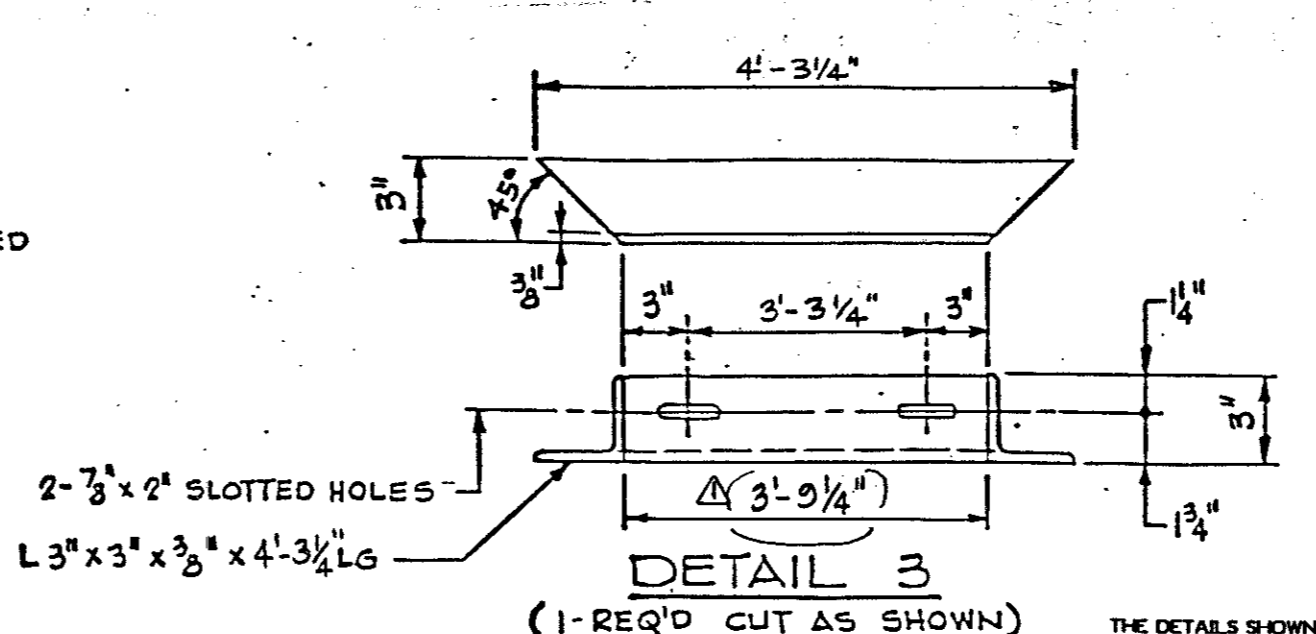
**DETAIL 4  
(2 REQ'D)**



**PLAN**



**DETAIL 1  
(2 REQ'D)  
1- AS SHOWN  
1- OPP. HAND**



**DETAIL 3  
(1-REQ'D CUT AS SHOWN)**

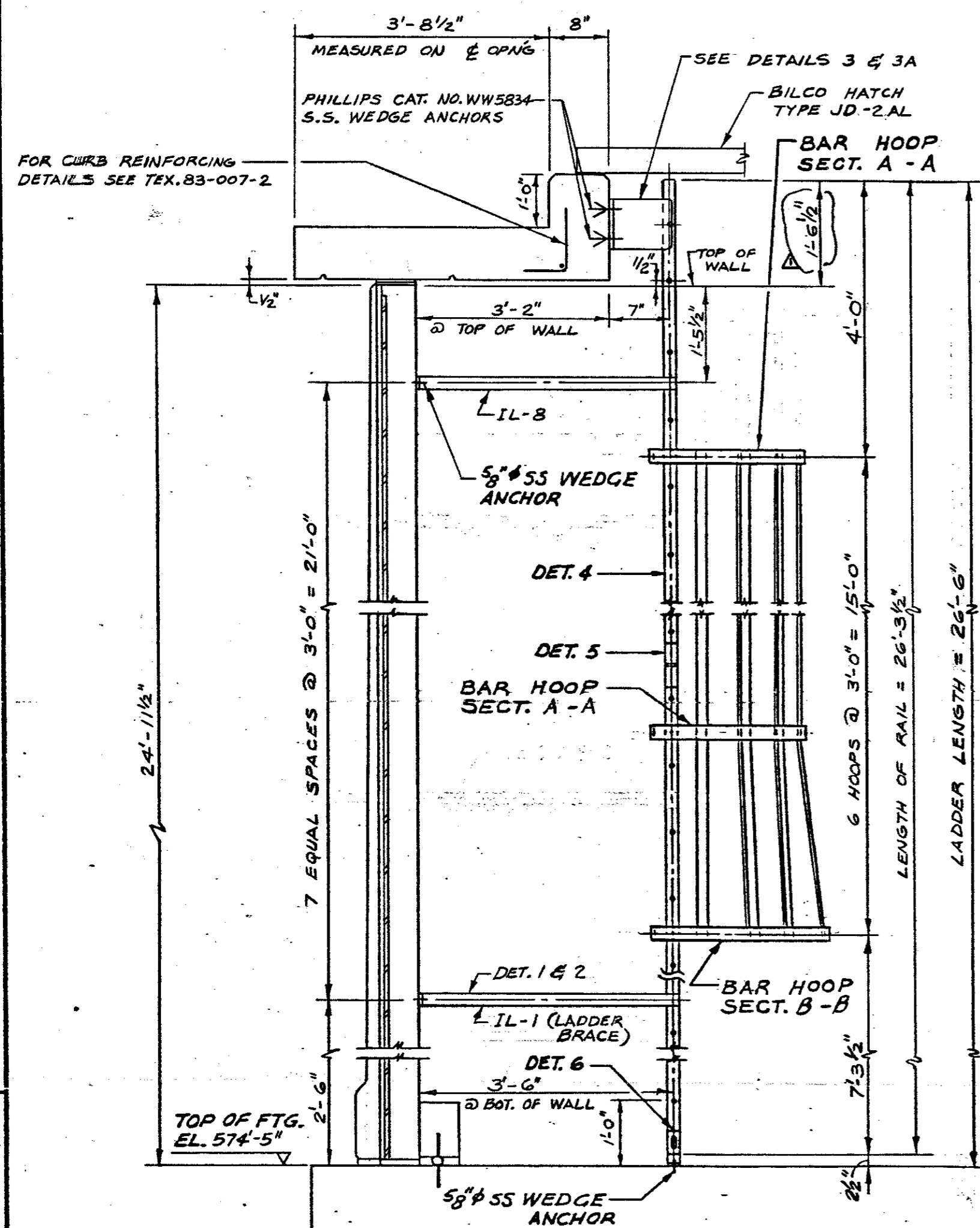
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DRAWINGS ISSUED  
DATE: 5/19/86  
BY: JDR

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	5/19/86	REV. INLET PIPE DET., SONIC LEVEL TRANS. DET., PLAN - CONC. EXT., DET'S 3, 5 & 6	RAO

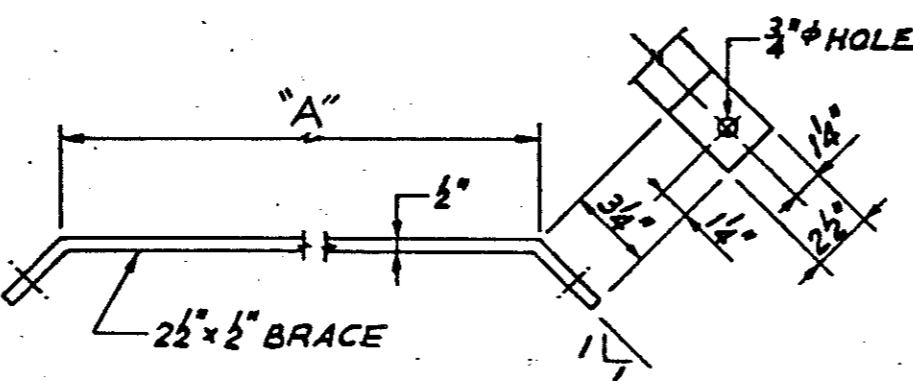
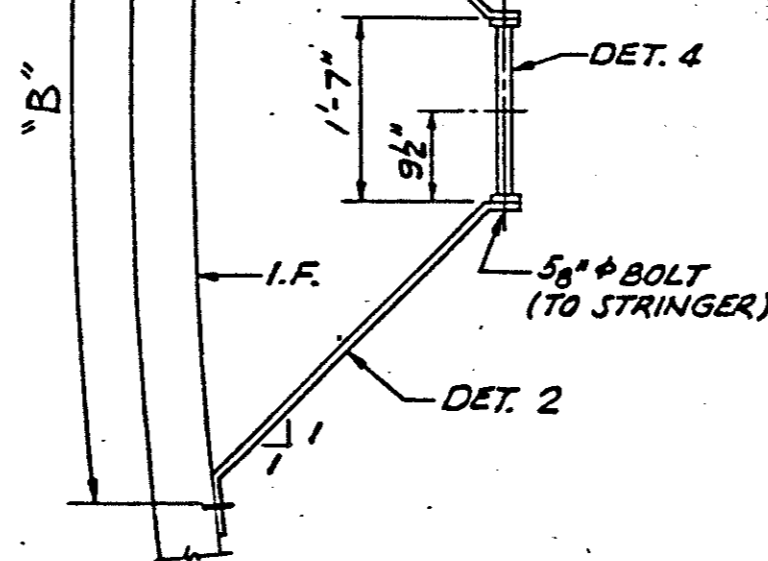
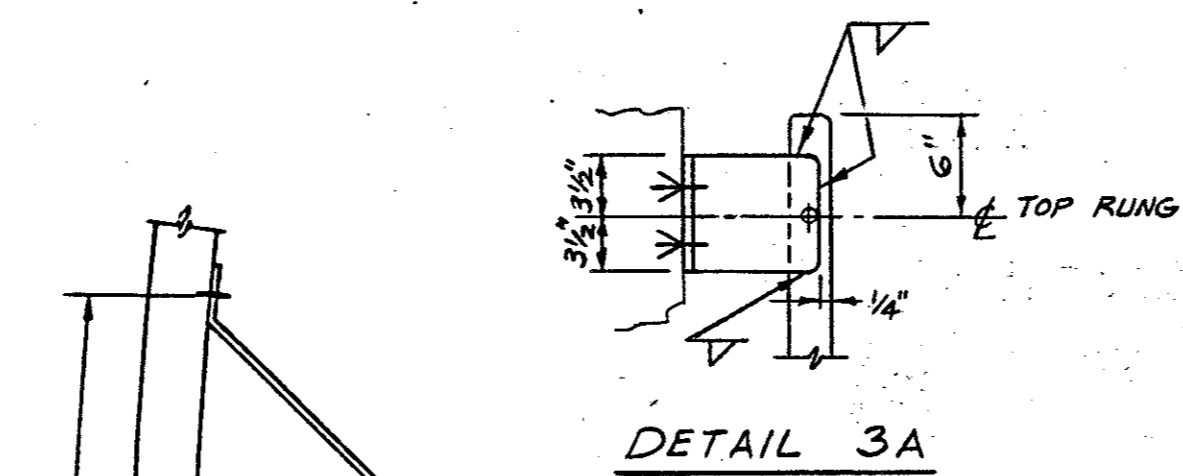
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ONE G.O. M.G. WATER STORAGE TANK ADDISON, TEXAS			
INLET & OUTLET PIPE DETAILS			
DRAWN: JD	SCALE: NONE	CONTRACT NUMBER: 86 PE 004	
DESIGNED: FD	APPROVED:	TEX.	
CHECKED: RAO	DATE: 4-24-86	DRAWING NUMBER: 83-007-6	

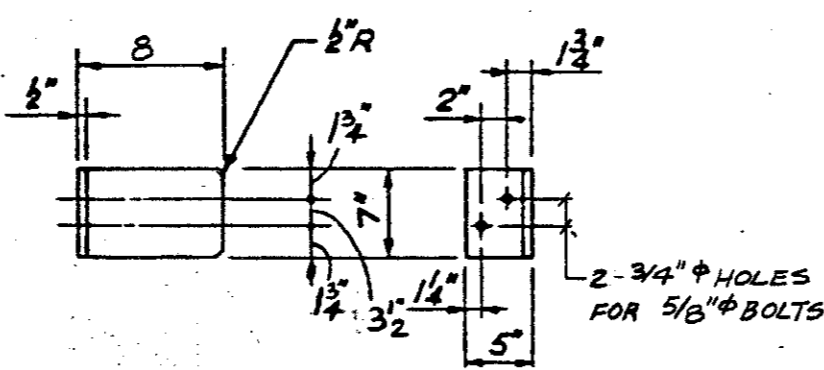


**ELEVATION — INSIDE LADDER**

- LADDER & COMPONENTS TO BE STAINLESS STEEL (TYPE 304).
  - HARDWARE TO BE STAINLESS STEEL.
- NOT TO SCALE



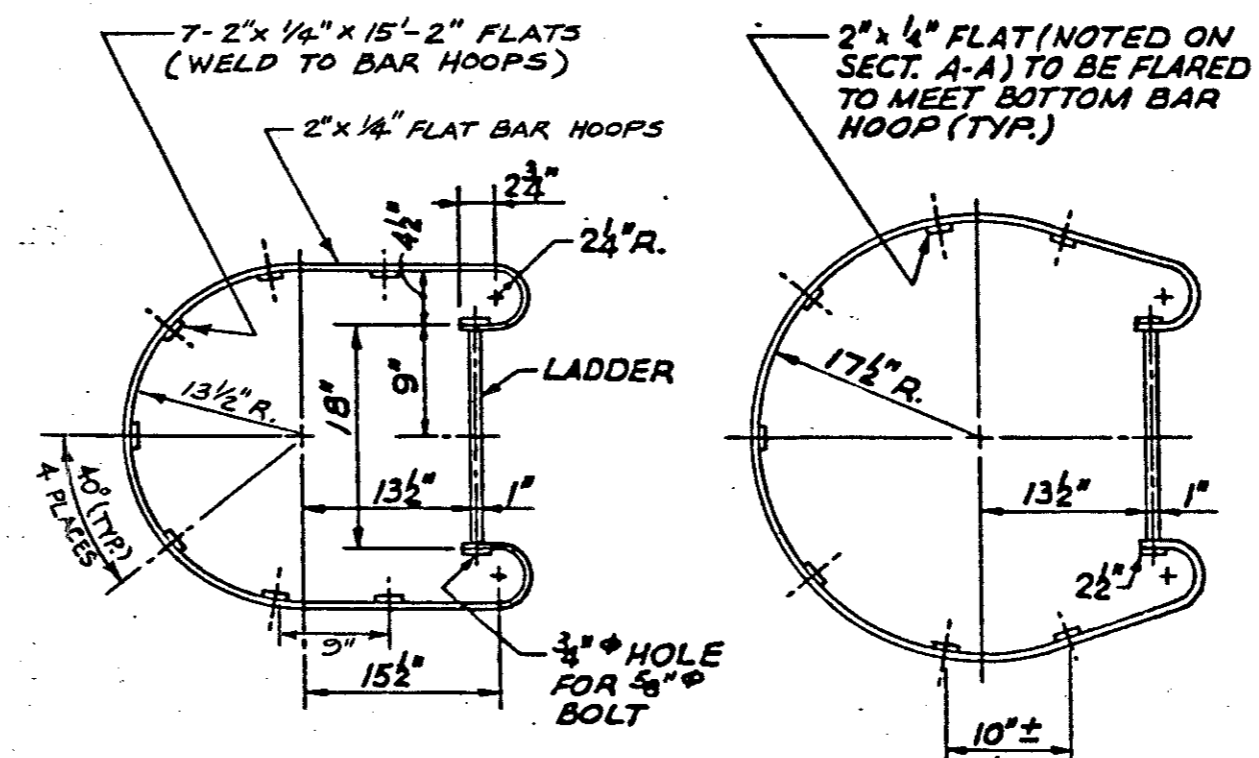
**DETAIL 2**  
(16-LEGS, TOTAL)  
2 EACH OF IL-1 TO IL-8



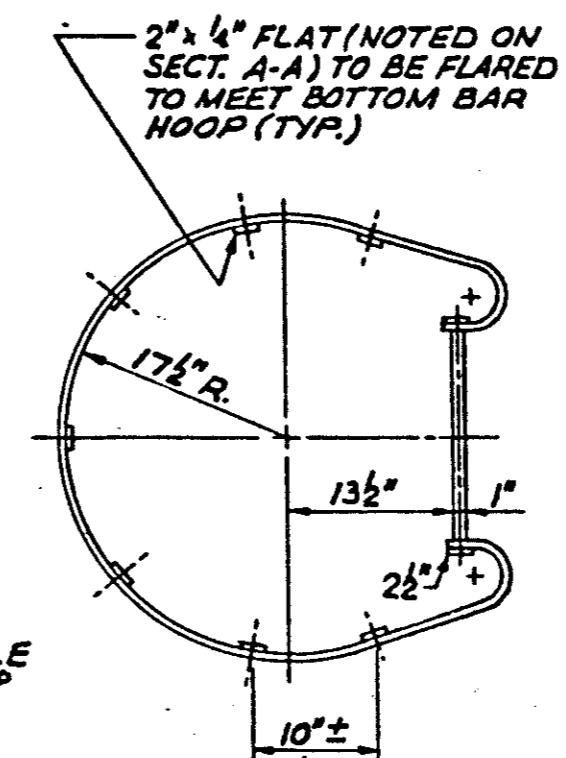
**DETAIL 3**  
(1 - AS SHOWN)  
(1 - OPP. HAND)

**LADDER BRACE SCHEDULE**

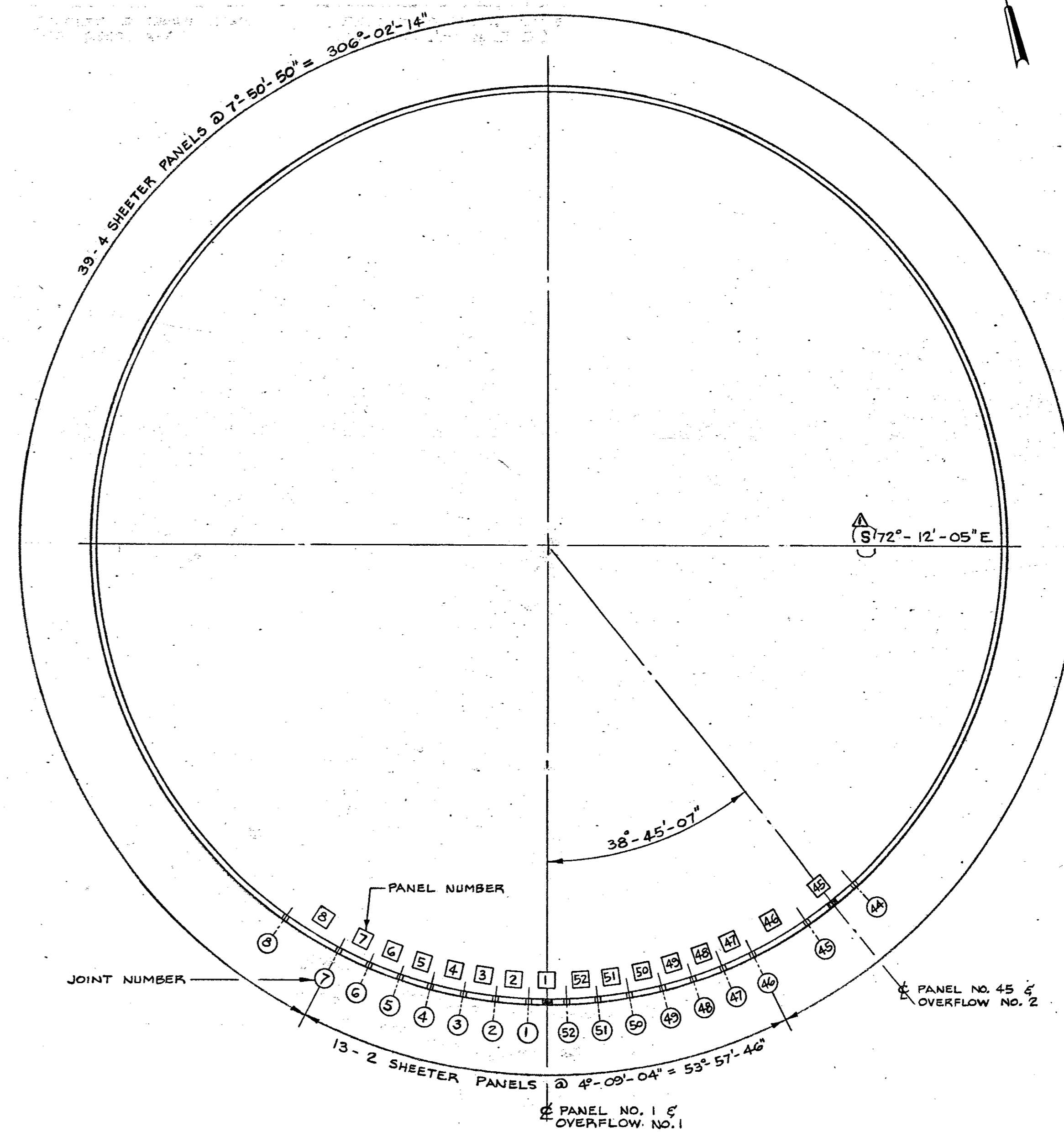
BRACE#	"A"	"B"
IL-1	4'-7 3/8"	8'-5 1/2"
IL-2	4'-8 3/8"	8'-6 3/8"
IL-3	4'-8 3/8"	8'-7 1/2"
IL-4	4'-9 3/8"	8'-7 3/4"
IL-5	4'-9 3/8"	8'-8 1/2"
IL-6	4'-10 3/8"	8'-9 3/8"
IL-7	4'-10 3/8"	8'-9 3/8"
IL-8	4'-11 3/8"	8'-10 3/8"



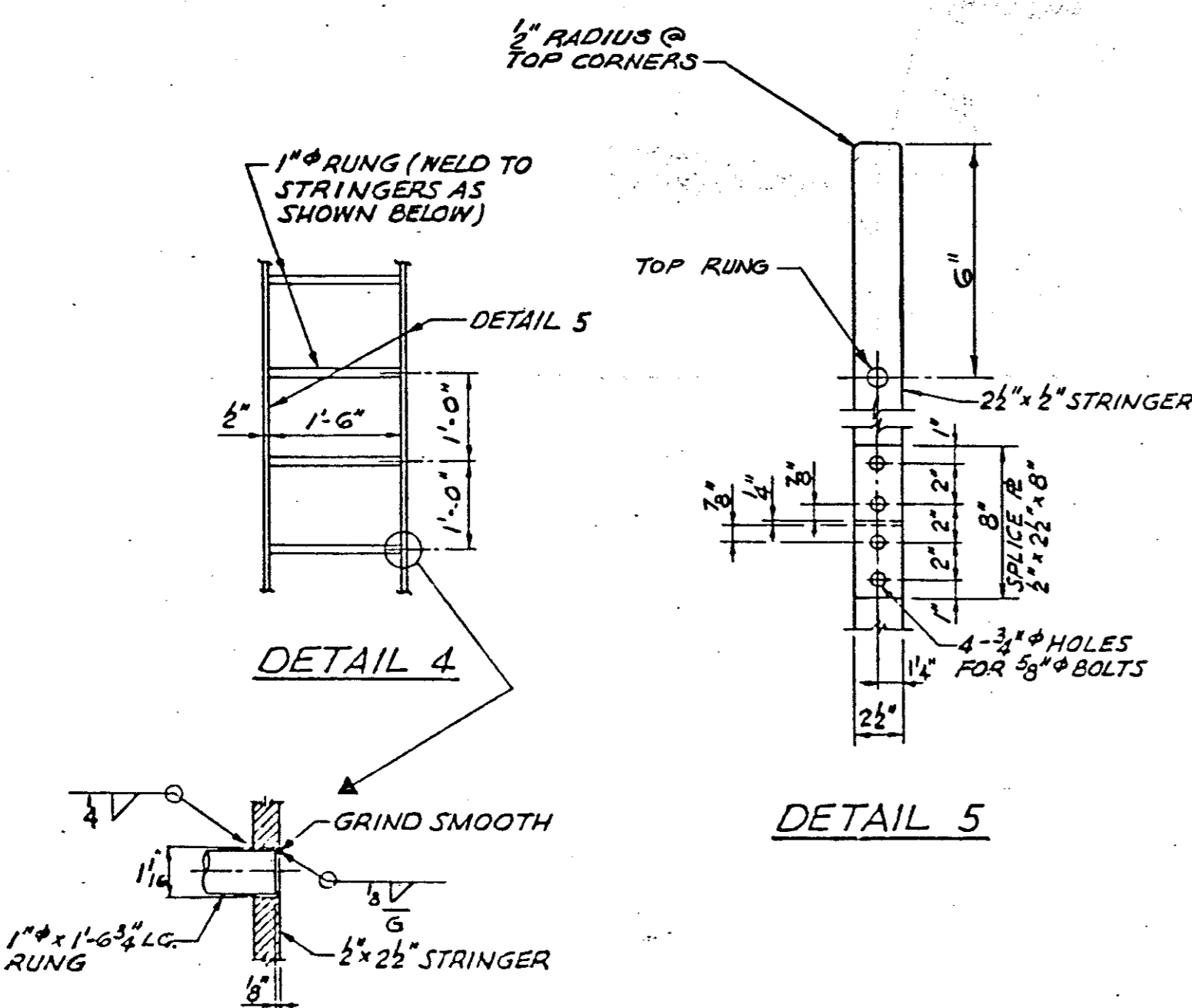
**SECT. A-A TOP & INTERMEDIATE BAR HOOPS**  
TOTAL: 5 REQ'D



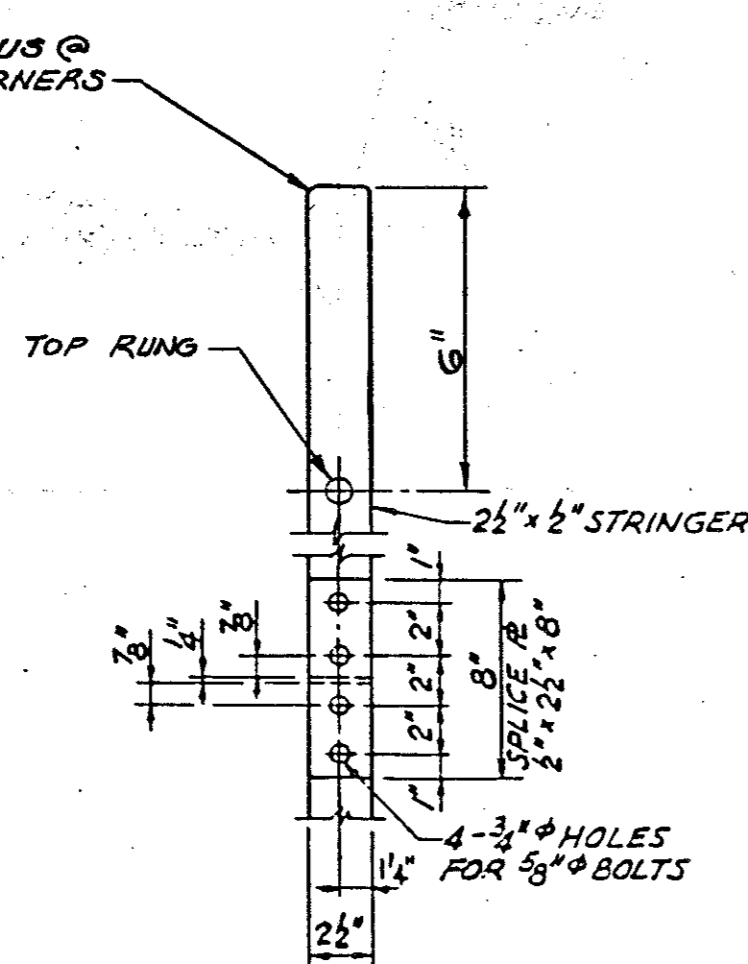
**SECT. B-B BOTTOM BAR HOOP**  
TOTAL: 1 REQ'D (SAME AS SECT. A-A, EXCEPT AS SHOWN)



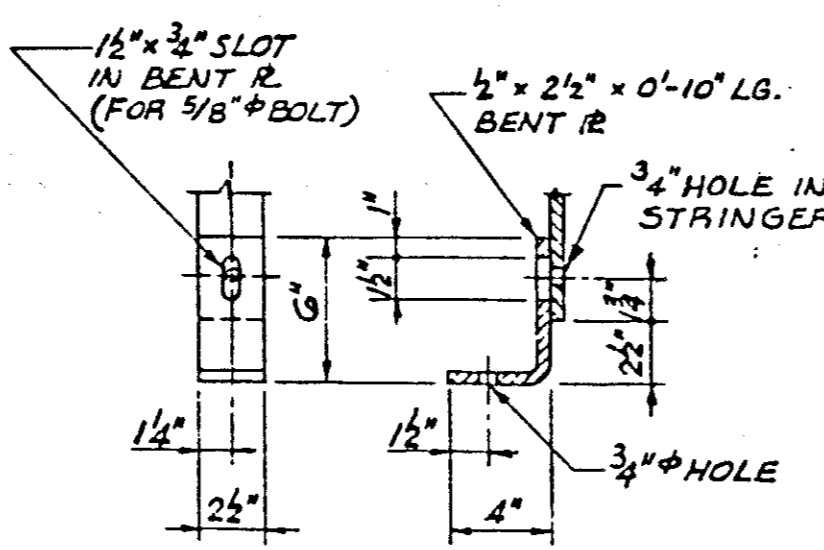
**PANEL LAYOUT**  
SCALE: 1" = 20'



**DETAIL 4**



**DETAIL 5**



**DETAIL 6**  
(2 THUS)

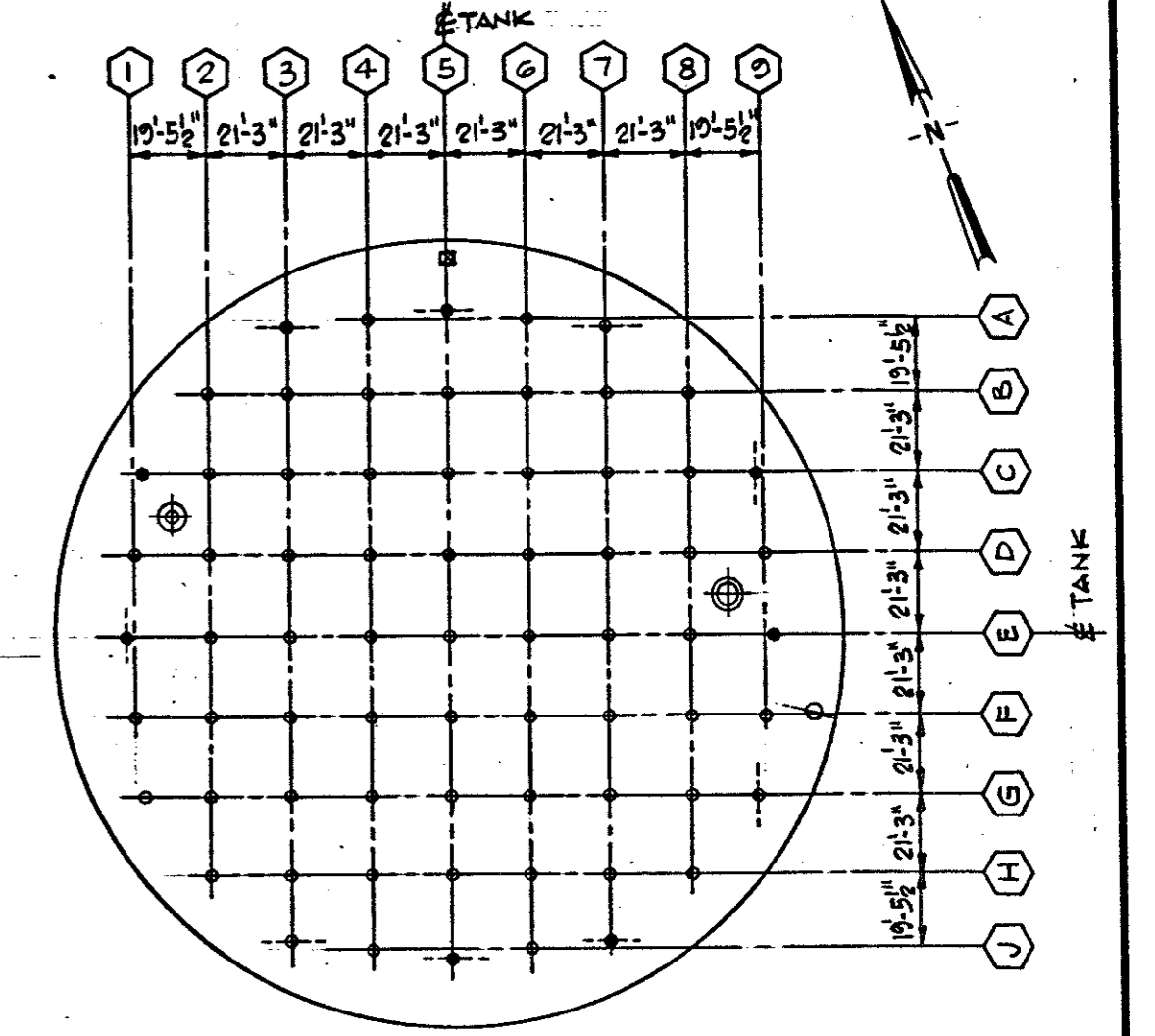
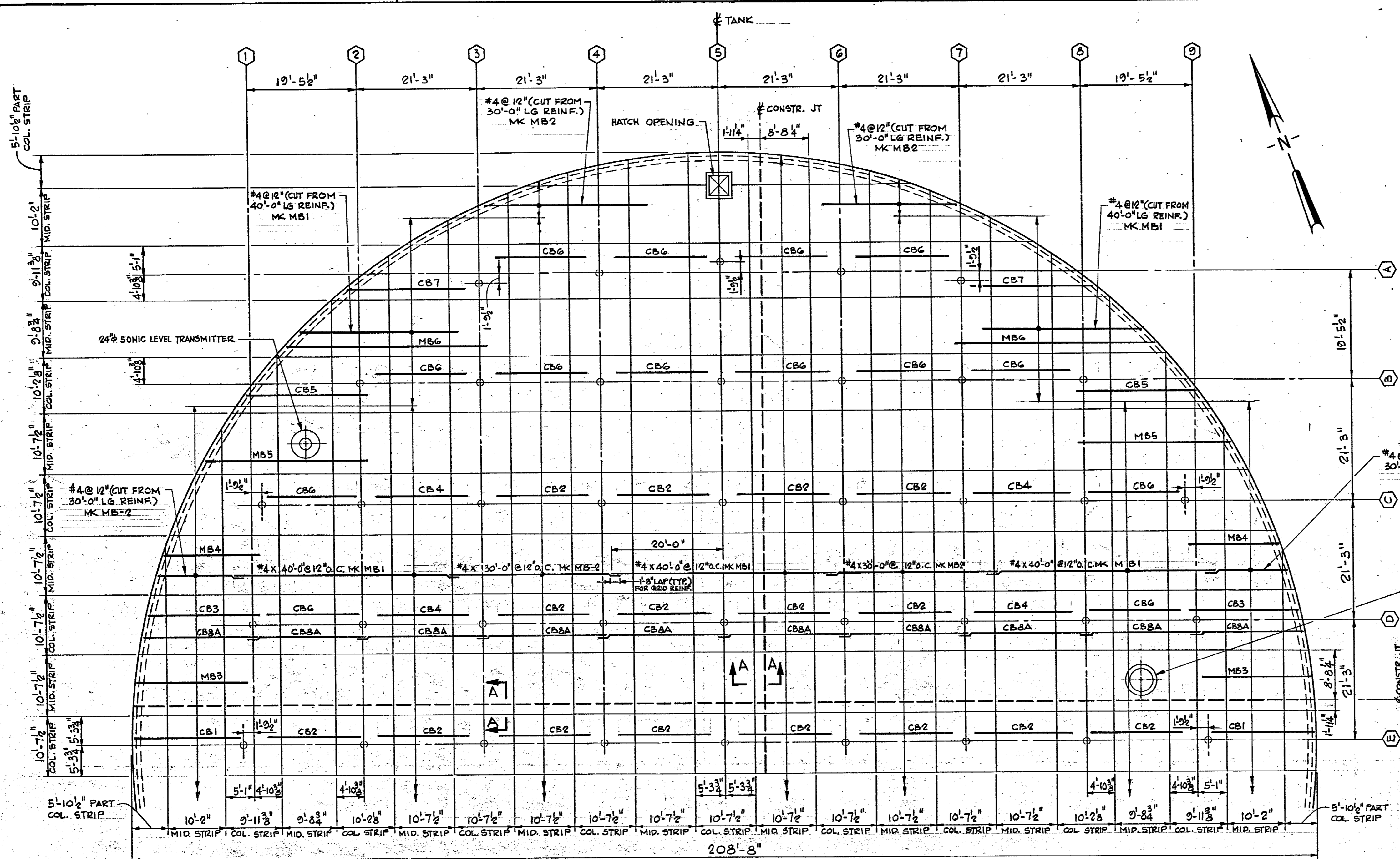
REVISIONS				
NO	DATE	DESCRIPTION	BY	CKD
1	5/13/86	REVISED BEARING ON PANEL LAYOUT REVISED ELEV-INSIDE LADDER	B	RAO



839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

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WORKING DRAWING			
ONE G.O.M.G. WATER STORAGE TANK			
ADDISON, TEXAS			
LADDER DETAILS & PANEL LAYOUT			
DRAWN: JD	SCALE: AS SHOWN	CONTRACT NUMBER: 86 PE 004	
DESIGNED: RAO	MTG:	DRAWING NUMBER: 83-007-7	
CHECKED: FD	DATE: 4-24-86		



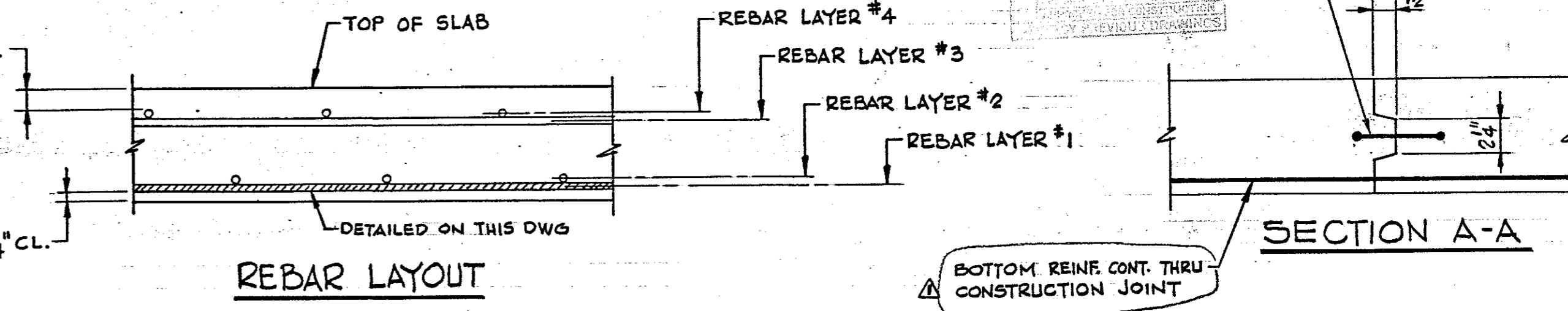
**NOTE:**  
 COLUMNS A-3, A-5, A-7, C-1, C-9, E-1, E-9;  
 G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM  
 COLUMN 4'S SHOWN ABOVE.

ROOF SLAB GRID SCHEDULE (LAYER NO.1)										
BUNDLE MK	REIN. NO.	PER BUNDLE SIZE	LENGTH	NO. OF BUNDLES	TOTAL NO. BARS	BAR WEIGHT			LOCATION	SKETCH
						#5	#4	#3		
MB1	533	#4	40'-0"	1	533	540	14429		CONTINUOUS GRID	
MB2	525	#4	30'-0"	1	525	535	10721		CONTINUOUS GRID	
MB3	2	#4	19'-11"	4	8	8	106		MID STRIPS E-D & E-F IN END BAYS	
MB4	3	#4	17'-9"	4	12	13	154		MID STRIPS C-3 & F-G IN END BAYS	
MB5	3	#4	30'-0"/22'-9"	4	12	13	229		MID STRIPS C-E & G-H IN END BAYS	
MB6	3	#4	36'-0"/26'-6"	4	12	13	271		MID STRIPS B-A & H-J IN END BAYS	
CB1	9	#4	19'-11"	2	18	20	266		END BAYS COL. LINE E	
CB2	6	#4	16'-0"	24	144	150	1603		INTERIOR BAYS	
CB3	9	#4	19'-9"	4	36	38	502		END BAYS COLUMN LINE D & F	
CB4	7	#4	16'-0"	8	56	60	641		INTERIOR BAYS LINES 2-3 & 7-8	
CB5	6	#4	22'-8"/15'-6"	4	24	27	346		END BAYS LINES B & H	
CB6	4	#4	16'-0"	28	112	120	1283		INTERIOR BAYS	
CB7	8	#4	26'-3"/13'-6"	4	32	34	451		END BAYS LINES A & J	
CB8A	4	#4	22'-9"	10	40	42	638		MID STRIP E-D ONLY	
TOTAL WEIGHT							31640			

**PART ROOF FRAMING PLAN**  
 SCALE: 3/32" = 1'-0"

- NOTES:**
- REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 60.
  - FOR HATCH, VENT & SONIC LEVEL TRANSMITTER DETAILS & APPL. REINF. SEE DWG TEX. 83-007-12
  - FOR INLET PIPE SEE DWG TEX. 83-007-6
  - FOR TYP. MIDDLE STRIP & COLUMN STRIP SECTIONS SEE DWG TEX. 83-007-12
  - REINFORCING BARS DETAILED ON THIS DWG ARE FOR LAYER NO.1 (SEE REBAR LAYOUT, THIS DWG)
  - FOR OTHER LAYERS SEE DWGS TEX. 83-007-9, -10 & -11
  - REINF. MARKED WITH SUFFIX 'A' TO BE PLACED NEAR THE COLUMN.
  - BARS MARKED THIS \* TO BE CUT IN EQUAL INCREMENTS AND BAR WEIGHTS LISTED ARE FOR AVERAGE LENGTHS
  - SEE DWG TEX. 83-007-3 & -5 FOR MK ANC-3 AT OVERFLOW PIPES

- FORMWORK NOTES:**
- FORMWORK DESIGN AND RESHORING SHALL BE IN ACCORDANCE WITH ACI 347, LATEST EDITION.
  - FORMS TO REMAIN UNTIL SLAB REACHES DESIGN STRENGTH BUT NOT LESS THAN 7 DAYS UNLESS RESHORING IS USED.
  - SLAB BETWEEN CONSTRUCTION JOINT AND COLUMNS IS NOT DESIGNED FOR CANTILEVER ACTION. FORMWORK IN THIS AREA MUST REMAIN UNTIL ADJACENT SLAB IS CAST AND HAS ACHIEVED FULL STRENGTH.



REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	5/13/86	REVISED SECTION A-A	E RAO

**PRELOAD**  
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**WORKING DRAWING**

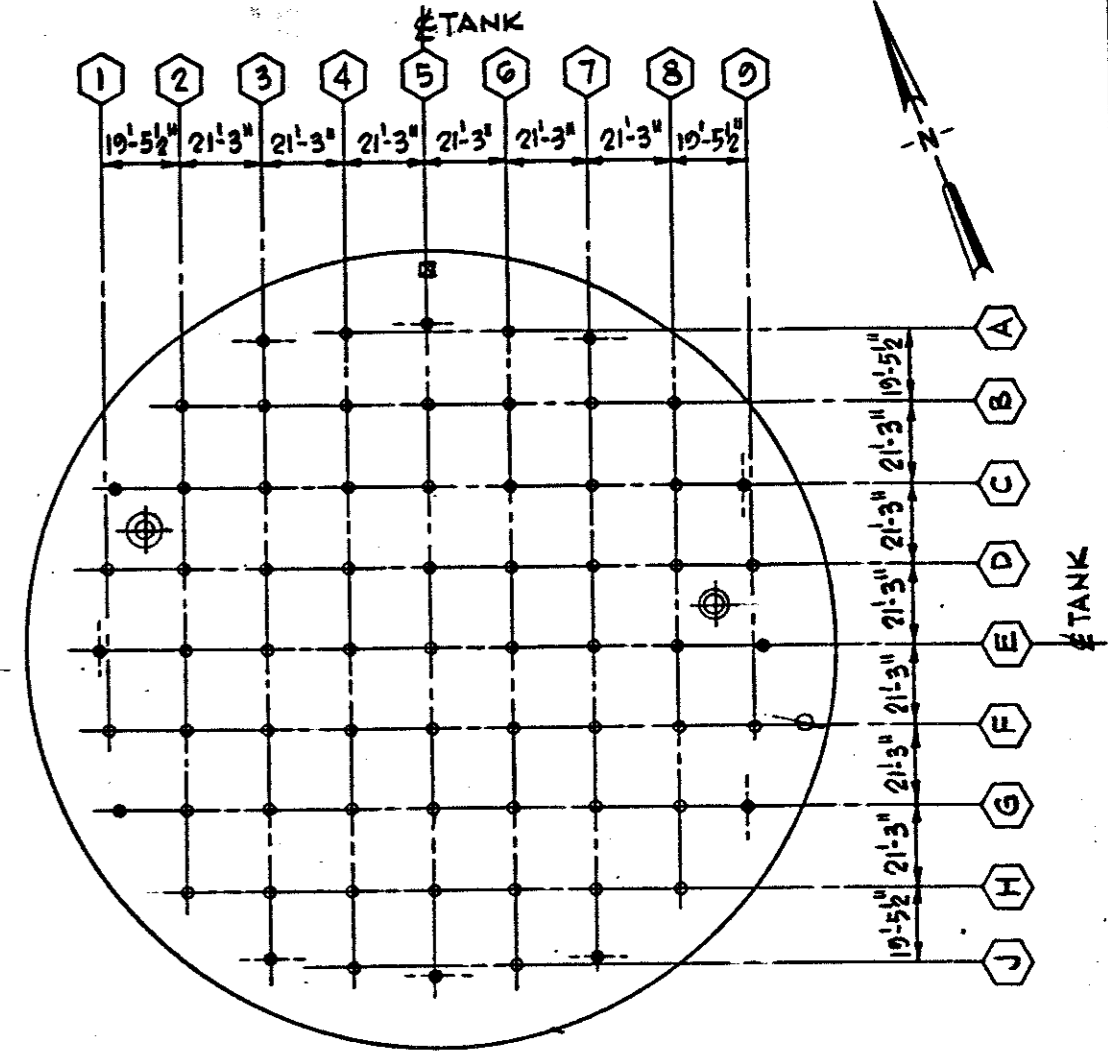
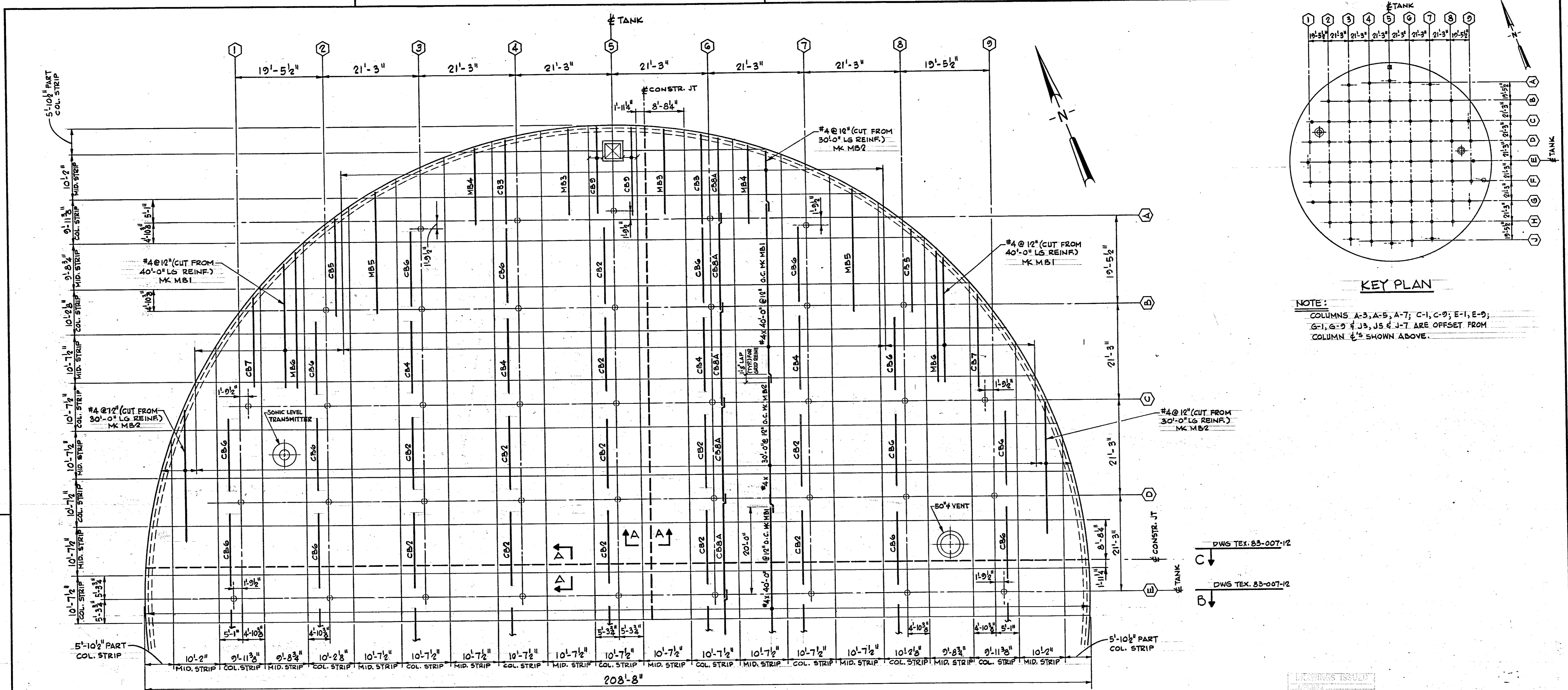
ONE 6.0 M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO.1

DRAWN: E  
 DESIGNED: RAO  
 CHECKED: FD

SCALE:  
 APPROVED:  
 DATE: 4-24-86

CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-B





**KEY PLAN**

**NOTE:**  
 COLUMNS A-3, A-5, A-7; C-1, C-9; E-1, E-9;  
 G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM  
 COLUMN 4'S SHOWN ABOVE.

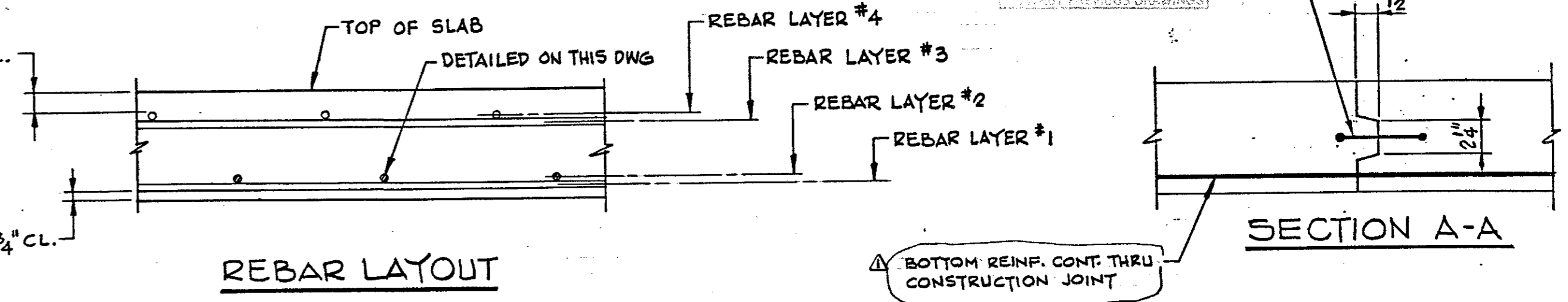
**ROOF SLAB GRID SCHEDULE (LAYER NO.2)**

BUNDLE MK	REIN. PER BUNDLE NO.	SIZE	LENGTH	NO. OF BUNDLES	TOTAL NO. BARS	BAR WEIGHT			LOCATION	SKETCH
						#5	#4	#3		
MB1	533	#4	40'-0"	—	533	540	14 429		CONTINUOUS GRID	
MB2	525	#4	30'-0"	—	525	535	10 721		CONTINUOUS GRID	
MB3	2	#4	19'-11"	4	8	8	106		MID. STRIP 4-5 & 5-6 END BAYS	
MB4	3	#4	17'-9"	4	12	13	154		MID. STRIP 3-4 & 6-7 END BAYS	
* MB5	3	#4	30'-0"/22'-0"	4	12	13	229		MID. STRIP 2-3 & 7-8 END BAYS	
* MB6	3	#4	36'-0"/24'-6"	4	12	13	271		MID. STRIP 1-2 & 8-9 END BAYS	
CB1	9	#4	19'-11"	1	9	10	133		COLUMN LINE 5 AT J	
CB2	6	#4	16'-0"	24	144	150	1603		INTERIOR BAYS	
CB3	9	#4	19'-9"	4	36	38	502		LINE 4 & 6 END BAYS	
CB4	7	#4	16'-0"	8	56	60	641		LINE B-C & G-H INTERIOR BAYS	
* CB5	6	#4	22'-8"/15'-6"	4	24	27	346		LINE 2 & 8 END BAYS	
CB6	4	#4	16'-0"	28	112	120	1283		INTERIOR BAYS	
* CB7	8	#4	26'-3"/13'-6"	4	32	34	451		LINE 6 & 8 END BAYS	
* CB8A	4	#4	22'-9"	10	40	42	638		MID. STRIP 5-6 ONLY	
CB9	6	#4	19'-11"	2	12	13	173		ON EACH SIDE OF HATCH	
<b>TOTAL WEIGHT</b>							<b>31680</b>			

**PART ROOF FRAMING PLAN**

- NOTES:**
1. REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 60.
  2. FOR HATCH, VENT & SONIC LEVEL TRANSMITTER DETAILS & ADD'L REINF. SEE DWG TEX. 83-007-12
  3. FOR INLET PIPE SEE DWG TEX. 83-007-6
  4. FOR TYP MIDDLE STRIP & COLUMN SECTIONS SEE DWG TEX. 83-007-12
  5. REINFORCING BARS DETAILED ON THIS DWG ARE FOR LAYER #2 (SEE REBAR LAYOUT, THIS DWG)
  6. FOR OTHER LAYERS SEE DWGS TEX. 83-007-8, 10 & 11
  7. REINF. MARKED WITH SUFFIX "A" TO BE PLACED NEAR THE COLUMN.
  8. BARS MARKED THUS \* TO BE CUT IN EQUAL INCREMENTS AND BAR WEIGHTS LISTED ARE FOR AVERAGE LENGTHS.

- FORMWORK NOTES:**
1. FORMWORK DESIGN AND RESHORING SHALL BE IN ACCORDANCE WITH ACI 347, LATEST EDITION.
  2. FORMS TO REMAIN UNTIL SLAB REACHES DESIGN STRENGTH BUT NOT LESS THAN 7 DAYS UNLESS RESHORING IS USED.
  3. SLAB BETWEEN CONSTRUCTION JOINT AND COLUMNS IS NOT DESIGNED FOR CANTILEVER ACTION. FORMWORK IN THIS AREA MUST REMAIN UNTIL ADJACENT SLAB IS CAST AND HAS ACHIEVED FULL STRENGTH.



**REVISIONS**

NO	DATE	DESCRIPTION	BY	CKD
1	5/17/86	REVISED SECTION A-A	E	ZAO

**PRELOAD**

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**WORKING DRAWING**

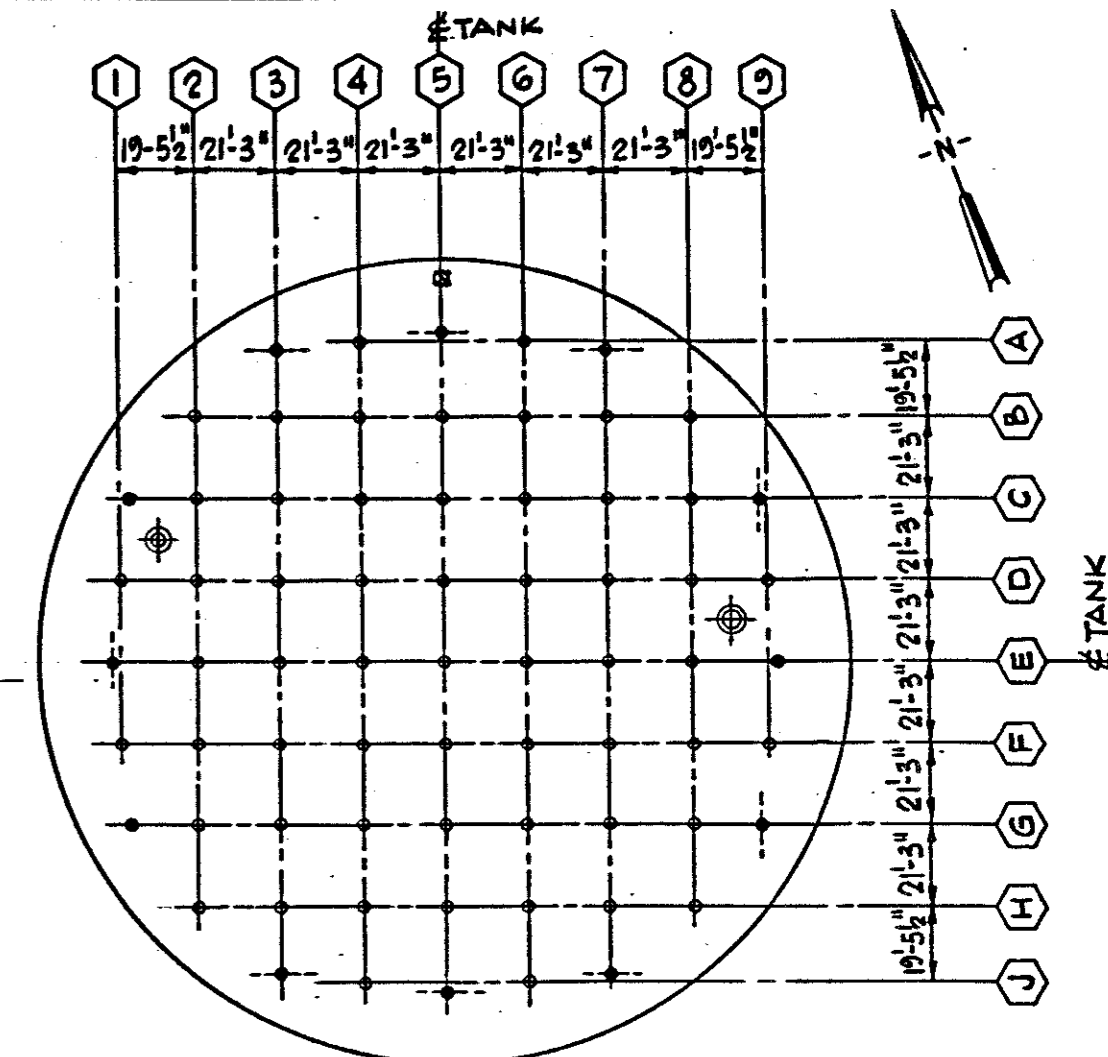
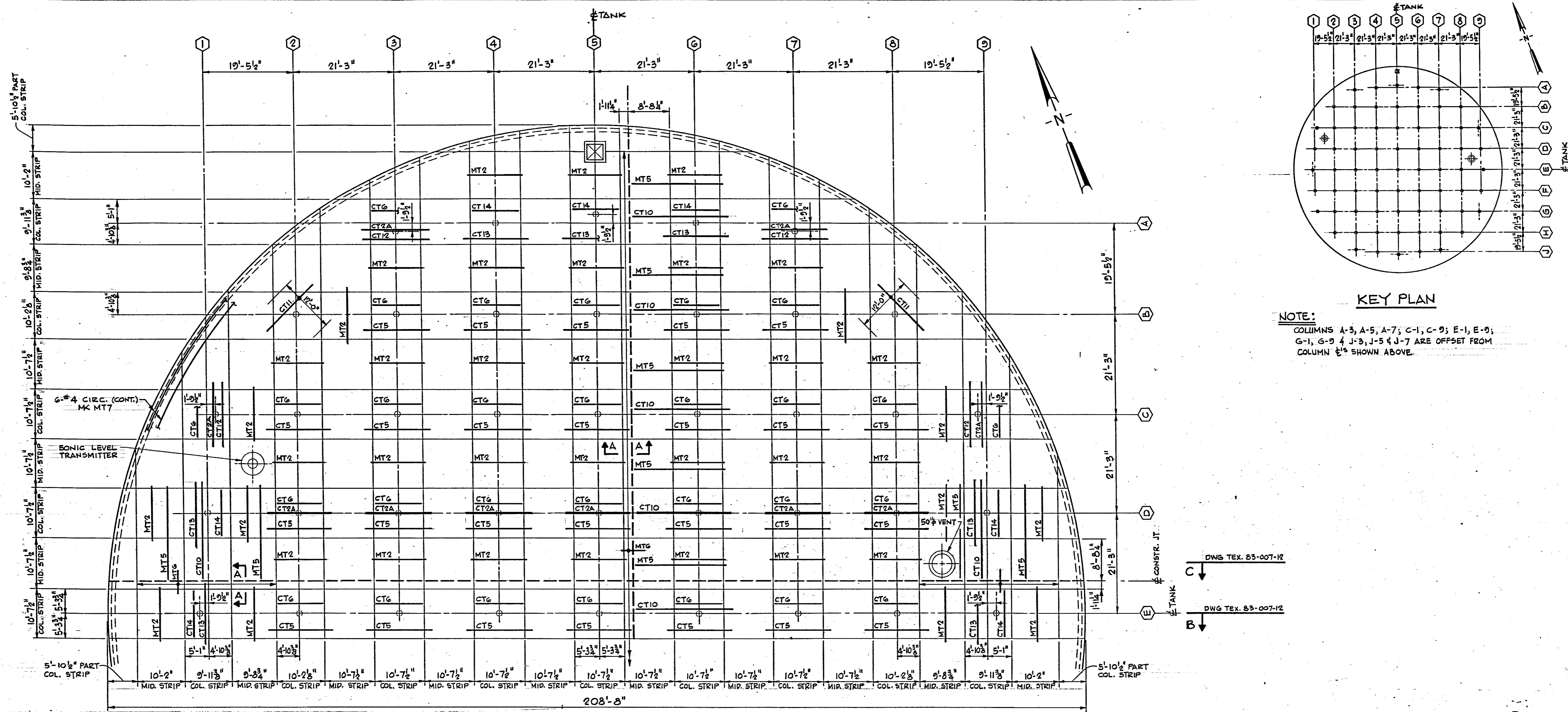
**ONE 6.0 M.G. GROUND STORAGE RESERVOIR**

**ADDISON, TEXAS**

**ROOF SLAB REINFORCING**

**LAYER NO. 2**

DRAWN: E	SCALE:	CONTRACT NUMBER: 86 PE 004
DESIGNED: RAO	APPROVED:	DRAWING NUMBER: 83-007-9
CHECKED: F	DATE: 4/24/86	



**NOTE:**  
 COLUMNS A-3, A-5, A-7; C-1, C-9; E-1, E-9;  
 G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM  
 COLUMN 1'S SHOWN ABOVE.

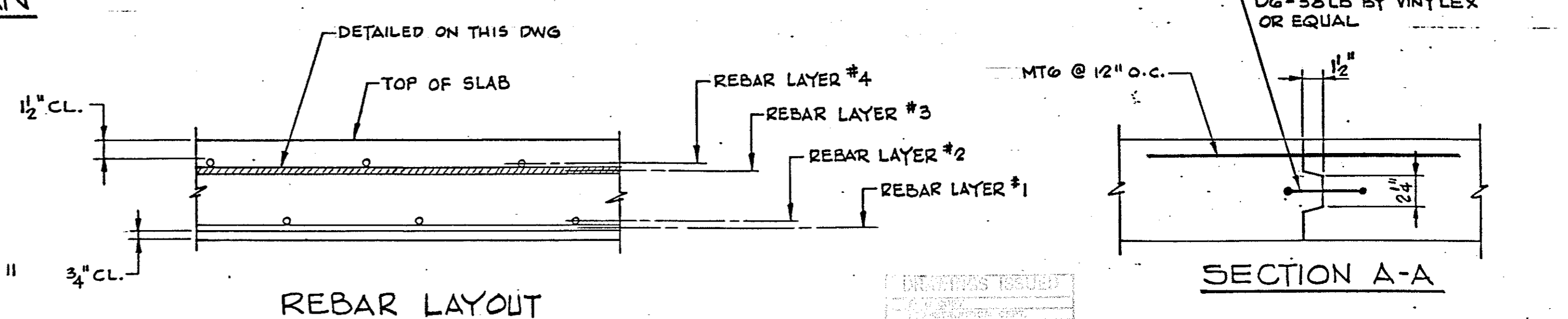
DWG TEX. 83-007-12  
 C  
 DWG TEX. 83-007-12  
 B

ROOF SLAB GRID SCHEDULE (LAYER NO. 3)											
BUNDLE MK	REINR. PER BUNDLE NO.	SIZE	LENGTH	NO. OF TOTAL BUNDLES	NO. OF BARS	ORDER	BAR WEIGHT			LOCATION	SKETCH
							#5	#4	#3		
CT2A	3	#5	14'-0"	14	42	45	657			LINE D & END BAYS LINE 1, 8, A & J	
CT5	10	#5	14'-0"	45	450	460	6717			INTERIOR BAYS	
CT6	9	#5	10'-4"	53	417	490	5279			INTERIOR BAYS & END BAYS OF 1, 2, A & J	
CT10	3	#5	20'-11"	11	33	35	764			LINE 6, ID & 3D	
CT11	20	#5	14'-0"	4	80	84	1227			END BAY OF B & H @ 45°	
CT12	9	#5	14'-0"	8	72	76	1110			END BAYS OF LINE 1, 2, A & J	
CT13	8	#5	14'-0"	12	96	100	1460			LINE A, J, 1 & 2 INTERIOR BAYS	
CT14	8	#5	10'-4"	12	96	100	1078			LINE A, J, 1 & 2 INTERIOR BAYS	
MT2	11	#4	11'-1"	78	858	875	6476			INTERIOR BAYS	
MT5	3	#4	19'-6"	14	42	44	573			LINE 6 & LINE D ONLY	
MT6	260	#4	4'-0"	1	260	270	721			AT CONSTRUCTION JOINT	
MT7	136	#4	30'-0"	1	136	140	2806			CONT. CIRC. REINF.	
TOTAL WEIGHT							18292	10576			

### PART ROOF FRAMING PLAN

- NOTES:**
- REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 60.
  - FOR HATCH, VENT & SONIC LEVEL TRANSMITTER DETAILS & ADD'L REINF. SEE DWG TEX. 83-007-12
  - FOR INLET PIPE SEE DWG TEX. 83-007-6
  - FOR TYP MIDDLE STRIP & COLUMN SECTIONS SEE DWG TEX. 83-007-12
  - REINFORCING BARS DETAILED ON THIS DWG ARE FOR LAYER #3 (SEE REBAR LAYOUT, THIS DWG)
  - FOR OTHER LAYERS SEE DWGS TEX. 83-007-3, -9 & -11
  - REINF. MARKED WITH SUFFIX "A" TO BE PLACED NEAR THE COLUMN.
  - MK CT1, CT3, CT4, CT7, CT8 & CT9 NOT USED  
MK MT1, MT3 & MT4 NOT USED

- FORMWORK NOTES:**
- FORMWORK DESIGN AND RESHORING SHALL BE IN ACCORDANCE WITH ACI 347, LATEST EDITION.
  - FORMS TO REMAIN UNTIL SLAB REACHES DESIGN STRENGTH BUT NOT LESS THAN 7 DAYS UNLESS RESHORING IS USED.
  - SLAB BETWEEN CONSTRUCTION JOINT AND COLUMNS IS NOT DESIGNED FOR CANTILEVER ACTION. FORMWORK IN THIS AREA MUST REMAIN UNTIL ADJACENT SLAB IS CAST AND HAS ACHIEVED FULL STRENGTH.

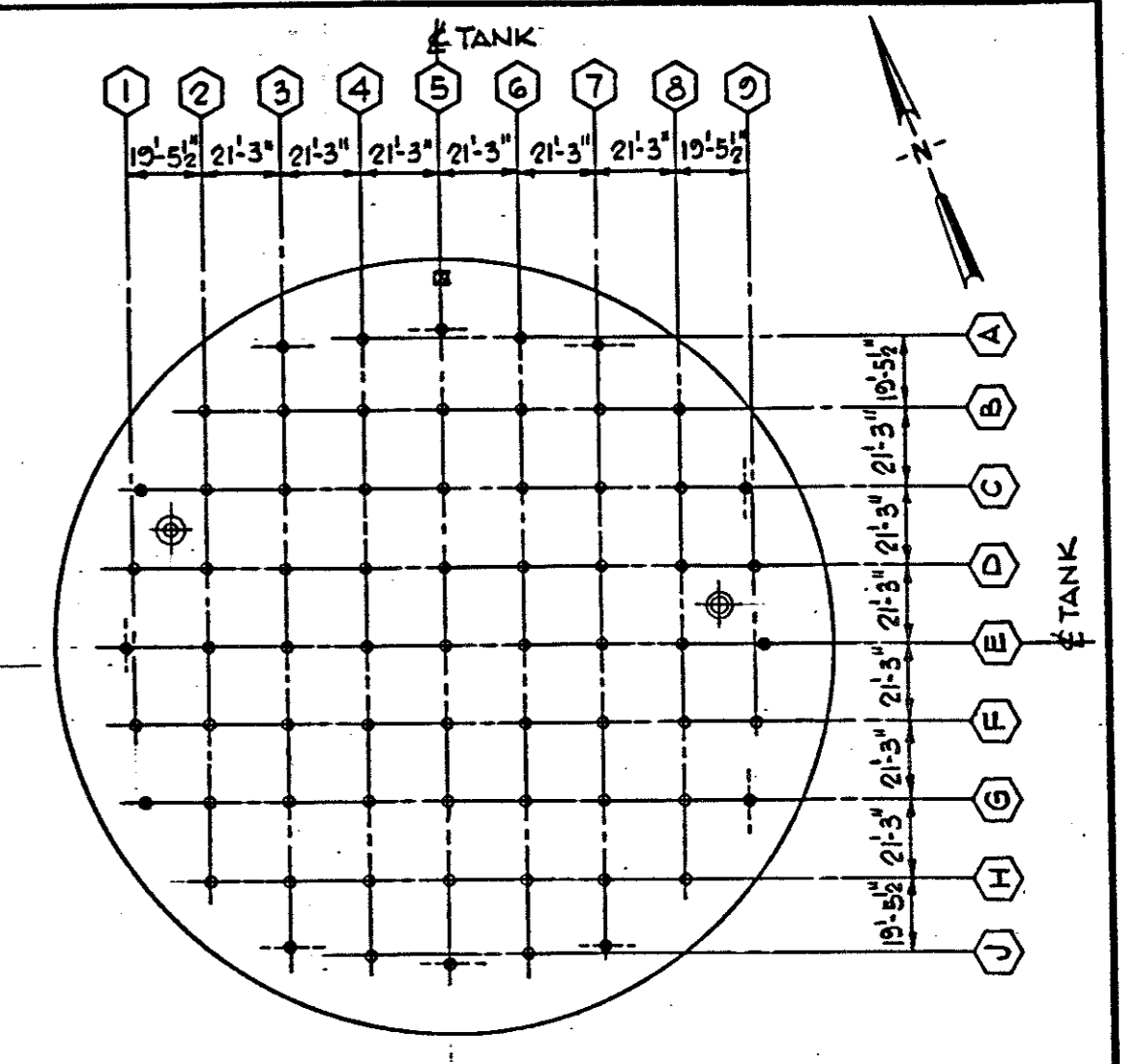
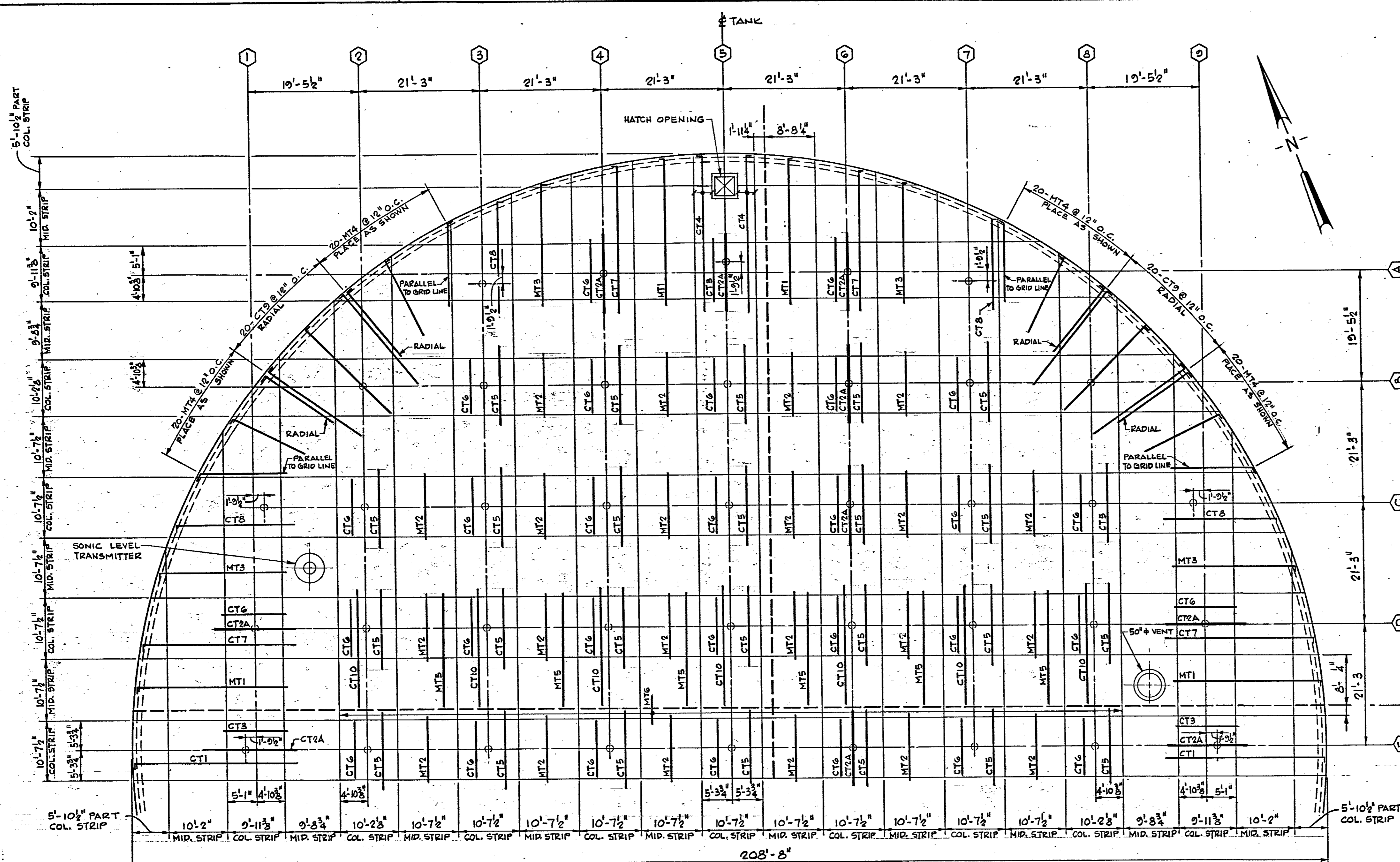


REVISIONS			
NO.	DATE	DESCRIPTION	BY CKD



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WORKING DRAWING  
 ONE G.O.M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO. 3  
 DRAWN: E  
 DESIGNED: RAO  
 CHECKED: FD  
 SCALE: 1/4" = 1'-0"  
 APPROVED:  
 DATE: 4/24/86  
 CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-10



**KEY PLAN**

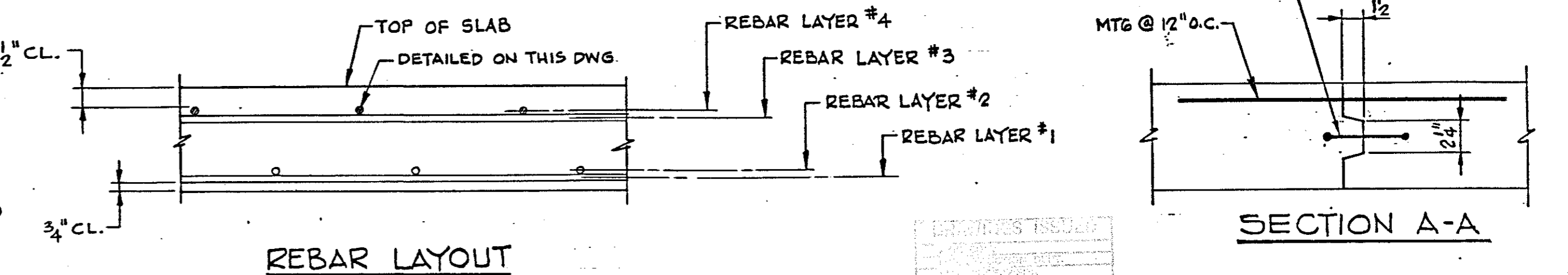
**NOTE:**  
 COLUMNS A-3, A-5, A-7, C-1, C-9, E-1, E-9;  
 G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM  
 COLUMN 1 AS SHOWN ABOVE.

DWG TEX. 83-007-12  
 DWG TEX. 83-007-12

ROOF SLAB GRID SCHEDULE (LAYER NO. 4)										
BUNDLE MK	REINR PER BUNDLE	NO. OF TOTAL BUNDLES	NO. OF BARS	ORDER	BAR WEIGHT			LOCATION	SKETCH	
					#5	#4	#3			
CT1	11 #5	26'-6"	3	33	35	967		LINE E & 5 END BAYS	4"   26'-2"	
CT2A	3 #5	14'-0"	18	54	57	832		LINE 4, 5, E, D & F END BAYS PLUS LINE 6		
CT3	10 #5	10'-4"	4	40	42	453		LINE E & 5 END BAYS		
CT4	6 #5	26'-6"	2	12	13	359		EACH SIDE OF HATCH	4"   26'-2"	
CT5	10 #5	14'-0"	45	450	460	6717		INTERIOR BAYS		
CT6	9 #5	10'-4"	53	477	490	5281		INTERIOR BAYS PLUS LINE 4, 6, D & F END BAYS		
CT7	9 #5	27'-0"	8	72	75	2112		LINE 4, 6, D & F END BAYS	4"   26'-8"	
CT8	12 #5	23'-2"	8	96	100	2417		LINE END BAYS	4"   22'-10"	
CT9	20 #5	23'-4"	4	80	84	2044		ALONG WALL	4"   23'-0"	
CT10	3 #5	20'-11"	7	21	22	480		LINE D ONLY		
MT1	11 #4	26'-8"	8	88	92	1639		MID. STRIP D-E, E-F, 5-4 & 5-6 END BAYS	4"   26'-4"	
MT2	11 #4	11'-1"	38	418	430	3183		INTERIOR BAYS		
MT3	11 #4	23'-4"	8	88	92	1433		MID. STRIP C-D, F-G, 3-4 & 6-7 END BAYS	4"   23'-0"	
MT4	20 #4	15'-4"	8	160	165	1690		ALONG WALL	4"   15'-0"	
MT5	3 #4	19'-6"	6	18	19	248		LINE D		
MT6	140 #4	4'-0"	1	140	145	387		CONSTRUCTION JOINT		
TOTAL WEIGHT					21662	8580				

**PART ROOF FRAMING PLAN**  
 SCALE: 3/32" = 1'-0"

- NOTES:**
1. REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 60.
  2. FOR HATCH, VENT & SONIC LEVEL TRANSMITTER DETAILS & ADD'L REINF. SEE DWG TEX. 83-007-12
  3. FOR INLET PIPE SEE DWG TEX. 83-007-6
  4. FOR TYP MIDDLE STRIP & COLUMN SECTIONS SEE DWG TEX. 83-007-12
  5. REINFORCING BARS DETAILED ON THIS DWG ARE FOR LAYER #4 (SEE REBAR LAYOUT, THIS DWG)
  6. FOR OTHER LAYERS SEE DWGS TEX. 83-007-8, -9 & -10
  7. REINF. MARKED WITH SUFFIX "A" TO BE PLACED NEAR THE # COLUMN.



- FORMWORK NOTES:**
1. FORMWORK DESIGN AND RESHORING SHALL BE IN ACCORDANCE WITH ACI 347, LATEST EDITION.
  2. FORMS TO REMAIN UNTIL SLAB REACHES DESIGN STRENGTH BUT NOT LESS THAN 7 DAYS UNLESS RESHORING IS USED.
  3. SLAB BETWEEN CONSTRUCTION JOINT AND COLUMNS IS NOT DESIGNED FOR CANTILEVER ACTION. FORMWORK IN THIS AREA MUST REMAIN UNTIL ADJACENT SLAB IS CAST AND HAS ACHIEVED FULL STRENGTH.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD

**PRELOAD**

839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

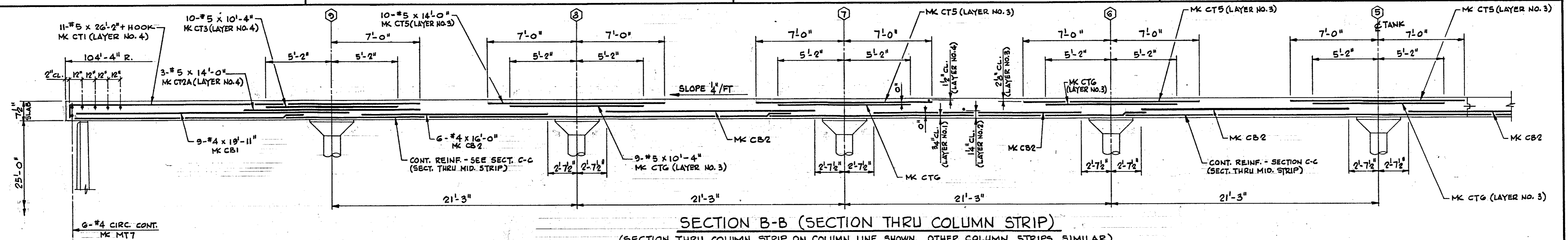
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**WORKING DRAWING**

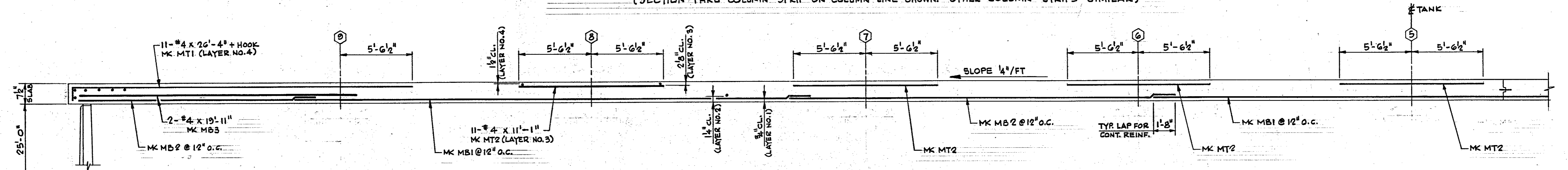
ONE G.O.M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO. 4

CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-11

DESIGNED: RAO  
 CHECKED: FD  
 DATE: 4/24/86

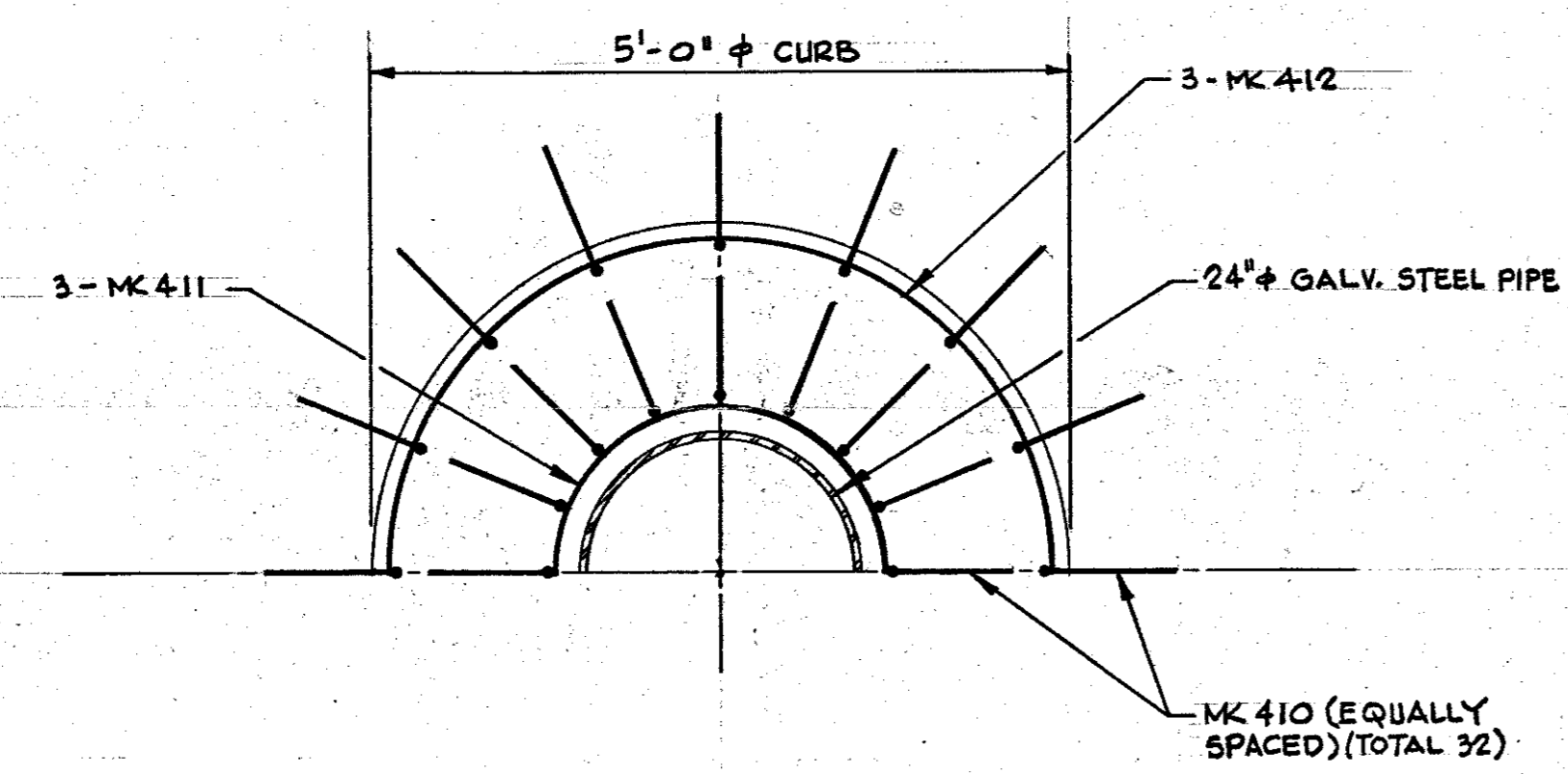


**SECTION B-B (SECTION THRU COLUMN STRIP)**  
 (SECTION THRU COLUMN STRIP ON COLUMN LINE SHOWN. OTHER COLUMN STRIPS SIMILAR)

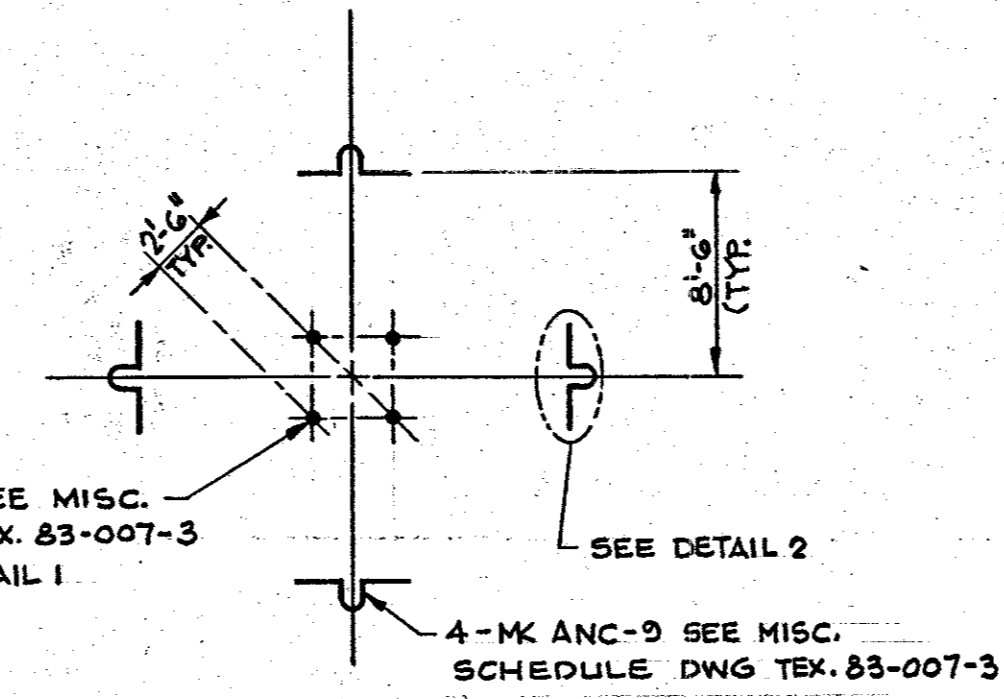


**SECTION C-C (SECTION THRU MIDDLE STRIP)**  
 SECTION THRU MIDDLE STRIP ABOVE COLUMN CENTERLINE SHOWN.  
 OTHER MIDDLE STRIPS SIMILAR.

**NOTE:**  
 REINF. IN ALL LAYERS NOT SHOWN  
 COMPLETELY FOR CLARITY

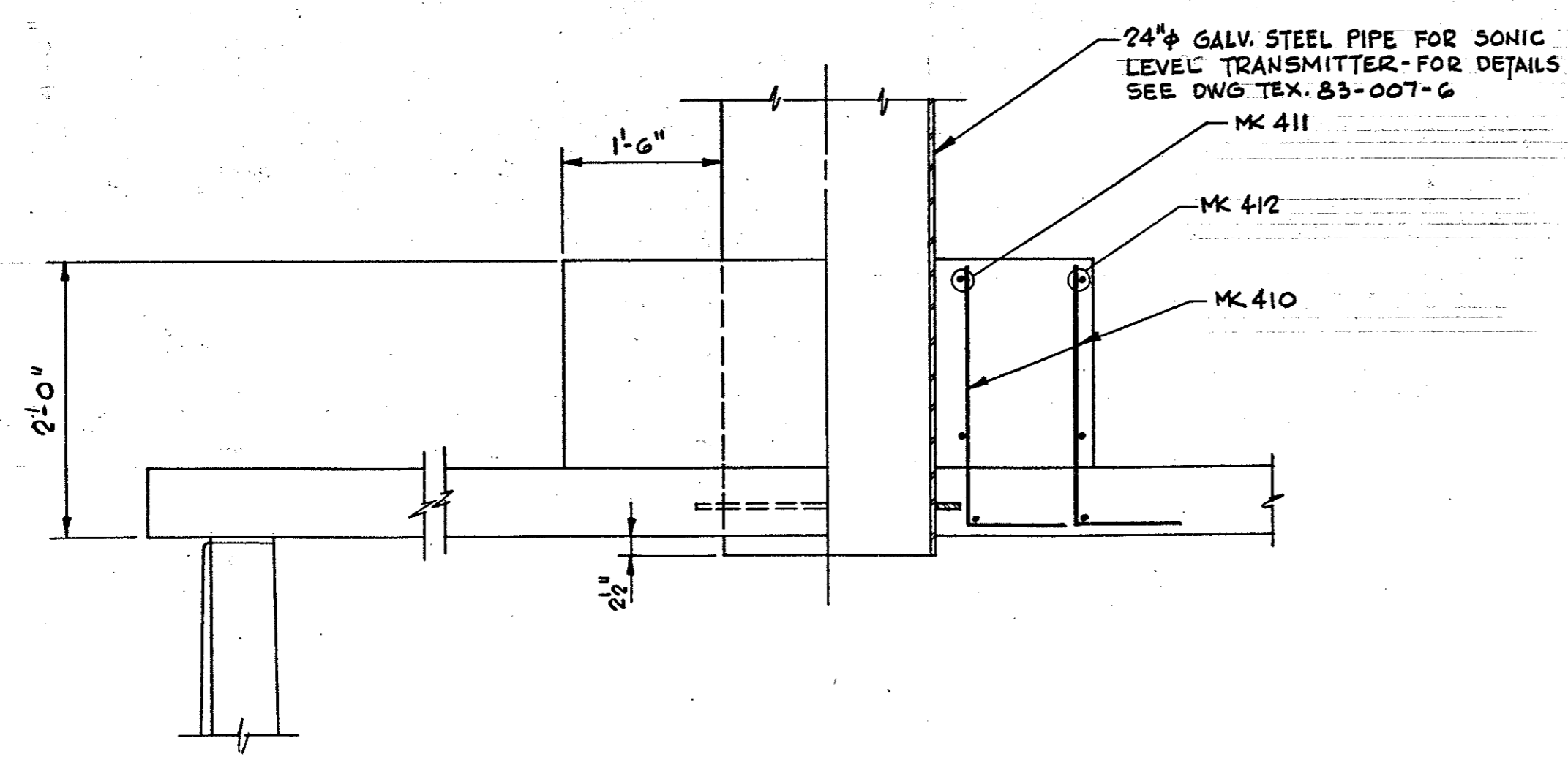


4-MK ANC-8 SEE MISC. SCHED. DWG TEX. 83-007-3 SEE ALSO DETAIL 1

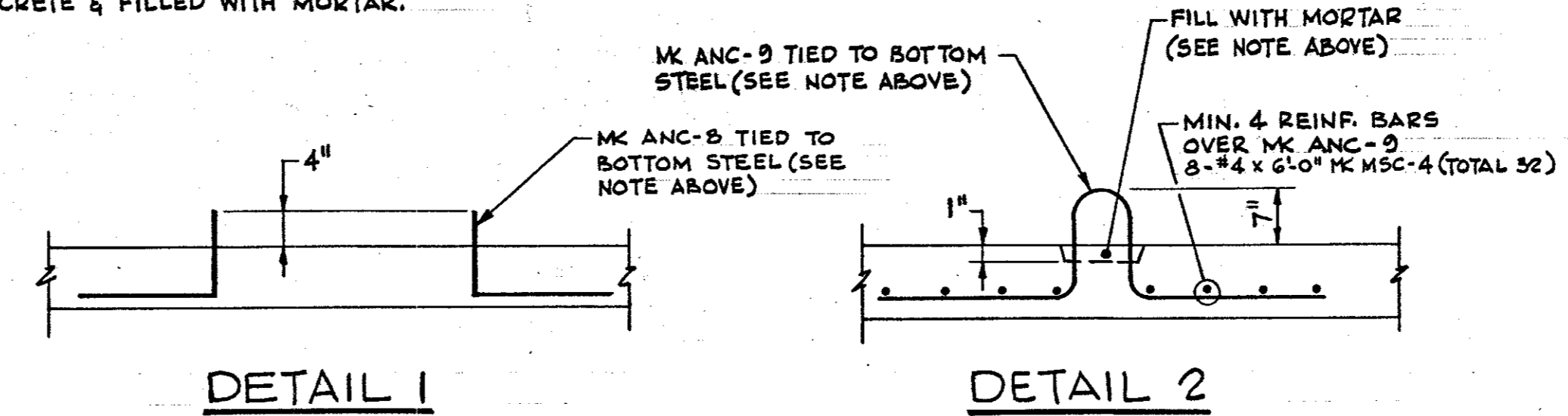


**WIREWINDER CENTER PIN ANCHORAGE ARRANGEMENT**

**NOTE:**  
 MK ANC-8 & MK ANC-9 ARE FOR SUPPORT OF CENTER PIN OF WIREWINDER. AFTER COMPLETION OF WORK MK ANC-8 & ANC-9 SHOULD BE CUT OFF TO 1" BELOW TOP OF CONCRETE & FILLED WITH MORTAR.



**SONIC LEVEL TRANSMITTER DETAIL**



**DETAIL 1**

**DETAIL 2**

WORKING DRAWING

ONE G.O.M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS

ROOF SECTIONS

REVISIONS			
NO.	DATE	DESCRIPTION	BY CKD



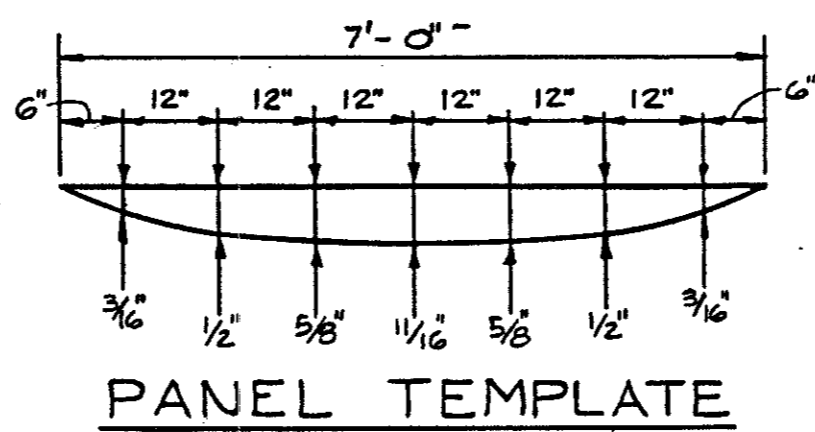
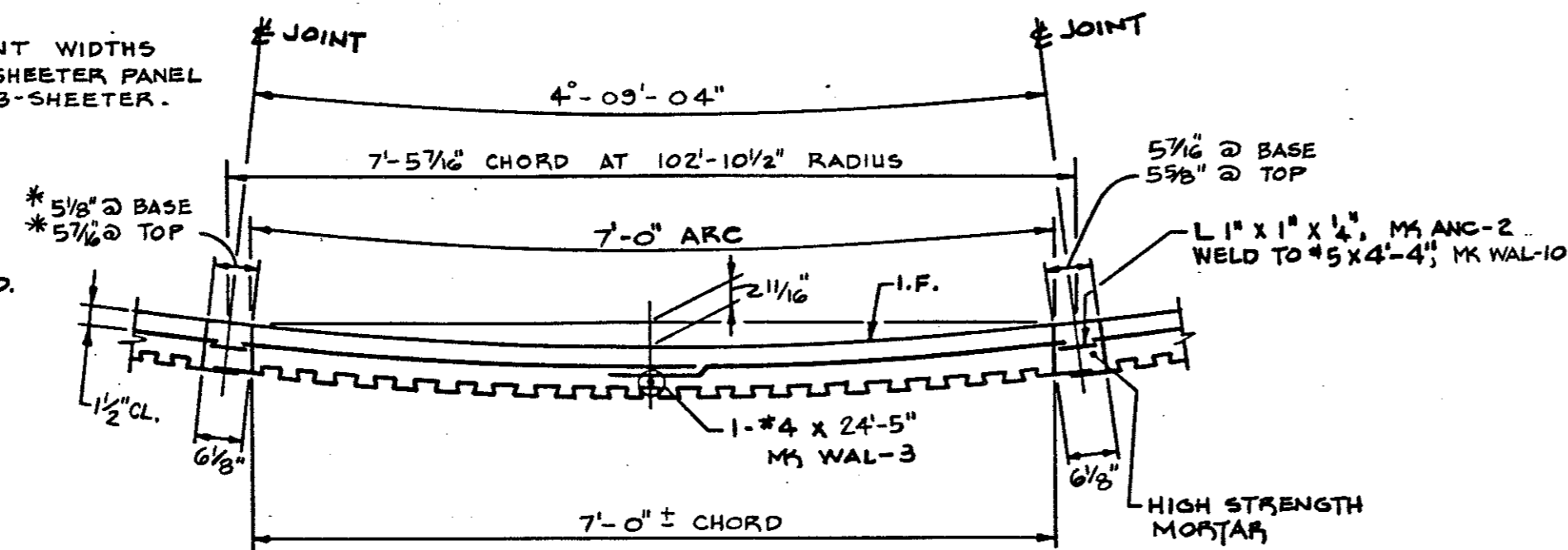
839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530  
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DRAWN: E  
 DESIGNED: RAO  
 CHECKED: FD  
 SCALE:  
 APPROVED:  
 DATE: 4/24/86  
 CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-12

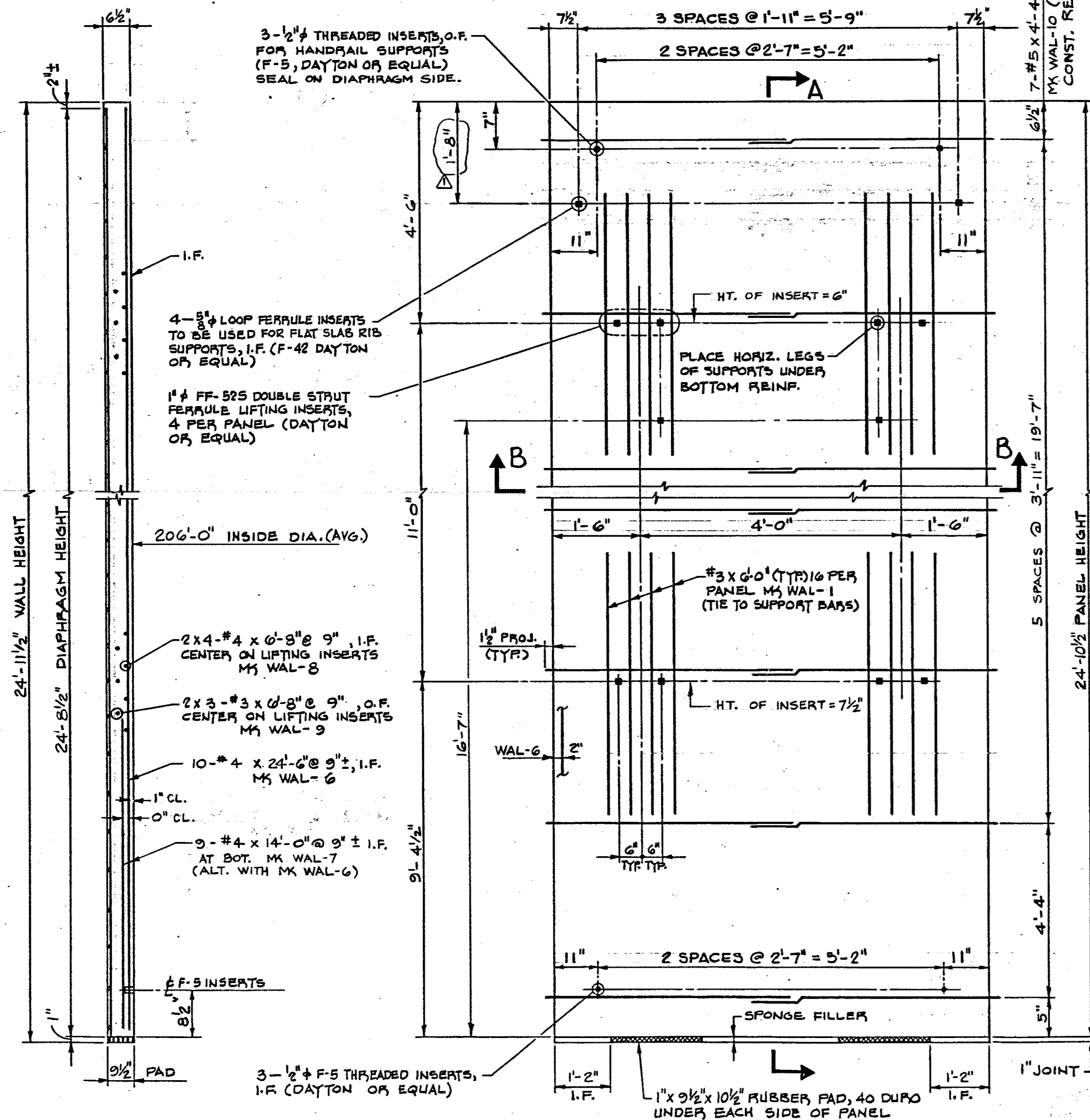
**WALL PANEL NOTES:**

1. PACK ALL INSERT HOLES WITH GROUT AND APPLY TWO COATS OF EPOXY UPON COMPLETION OF THEIR USE.
2. INSIDE FACE OF PANEL TO BE FINE BRUSH FINISHED.
3. PANELS NOT TO BE LIFTED UNTIL CONCRETE STRENGTH OF 3500 PSI IS ATTAINED.
4. LIFTING CABLE: 4 POINT PICKUP  
40' CABLE LENGTH

\* INSIDE JOINT WIDTHS WHERE 2-SHEETER PANEL MEETS A 3-SHEETER.



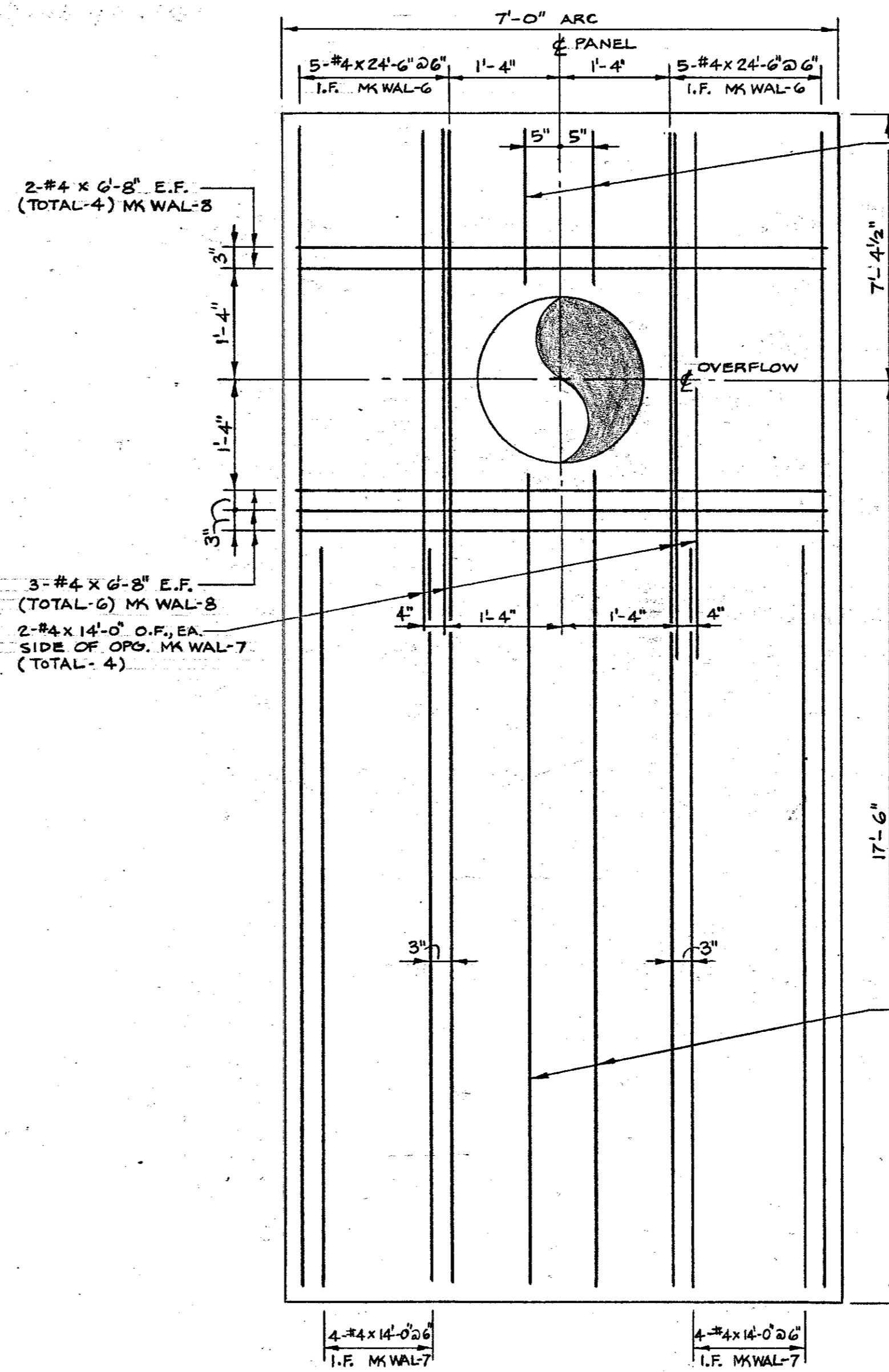
**SECTION B-B**



**SECTION A-A**

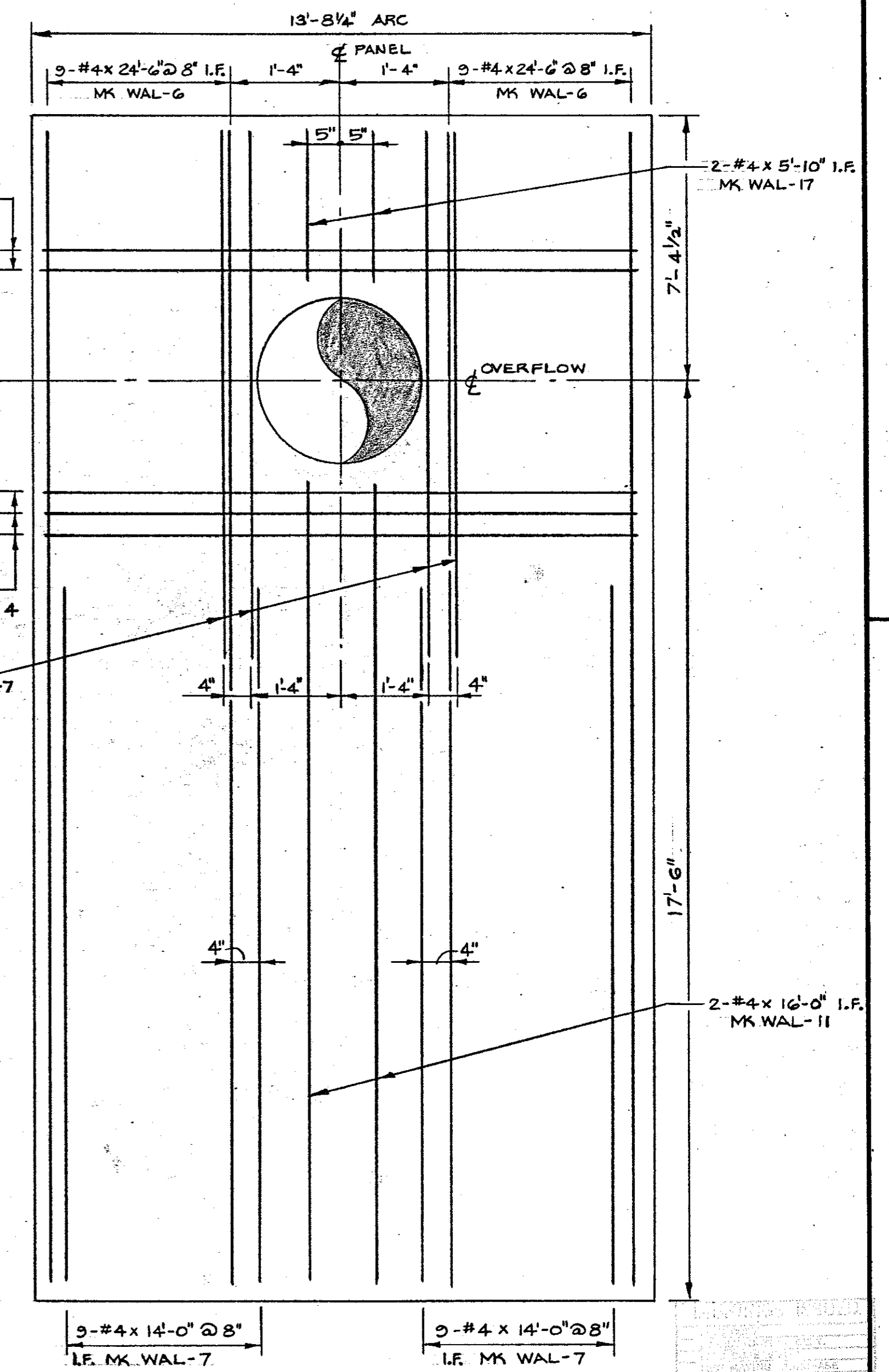
**ODD WALL PANEL ELEVATION**

(PANEL WT. = 8.7 TONS)  
13-TOTAL (12 AS SHOWN)  
FOR 2 SHEETER PANEL W/OVERFLOW SEE THIS DWG.



**2-SHEETER OVERFLOW PANEL**

NOTE: MK WAL-1, WAL-8 & WAL-9 AT LIFTING INSERTS, AND MK WAL-3 & WAL-10 NOT SHOWN. SEE ODD PANEL DETAILS THIS DWG.



**4-SHEETER OVERFLOW PANEL**

NOTE: MK WAL-1 & WAL-4 AT LIFTING INSERTS, AND MK WAL-3 & WAL-12 NOT SHOWN. SEE DWG. TEX. 83-007-2.

WORKING DRAWING

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CHKD
1	5/13/86	REVISED ODD WALL PNL ELEV. & NOTES ON OVERFLOW PANELS	E	ZAO



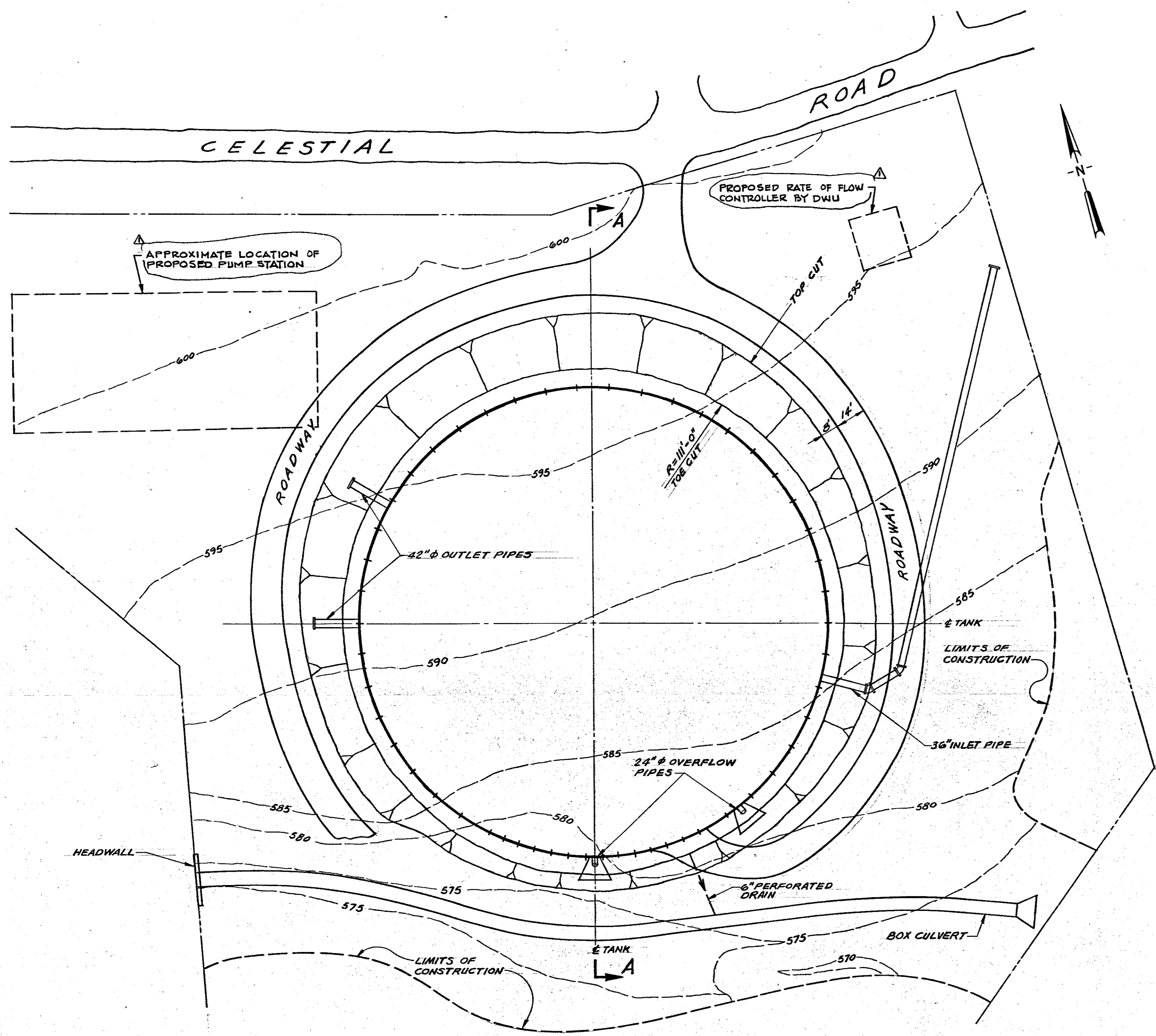
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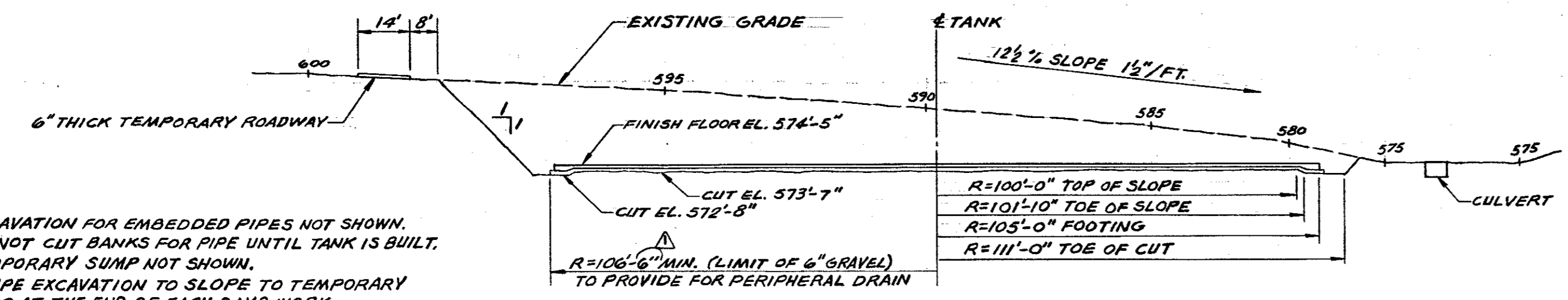
ONE 6.0 M.G. WATER STORAGE TANK  
ADDISON, TEXAS

ODD AND OVERFLOW PANELS			
DESIGNED: RAO	SCALE: NONE	CONTRACT NUMBER: 86 PE 004	TEXT
CHECKED: FD	DATE: 4-24-86	DRAWING NUMBER: 83-007-13	

THE DETAILS SHOWN ON THIS DRAWING SHALL BE PRODUCED WITHIN THE GUIDELINES AND REQUIREMENTS SPECIFIED IN PRELOAD CO. "CONSTRUCTION SPECIFICATIONS & PROCEDURES" NO. 105-207.



**EXCAVATION PLAN**  
SCALE: 1"=30'



**SECTION A-A**  
**NORTH-SOUTH EXCAVATION**  
SCALE: 1"=30'

- NOTES:**
1. EXCAVATION FOR EMBEDDED PIPES NOT SHOWN.
  2. DO NOT CUT BANKS FOR PIPE UNTIL TANK IS BUILT.
  3. TEMPORARY SUMP NOT SHOWN.
  4. SHAPE EXCAVATION TO SLOPE TO TEMPORARY SUMP AT THE END OF EACH DAYS WORK.

THE DETAILS SHOWN ON THIS DRAWING SHALL BE PRODUCED WITHIN THE GUIDELINES AND REQUIREMENTS SPECIFIED IN PRELOAD CO. "CONSTRUCTION SPECIFICATIONS & PROCEDURES" NO. 105-287.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CHKD
1	5/3/86	ADDED PROPOSED PUMP STATION & FLOW CONTROLLER	E	DAO



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**WORKING DRAWING**  
**ONE 6.0 M.G. WATER STORAGE TANK**  
**ADDISON, TEXAS**

**EXCAVATION DETAILS**

DRAWN: PV	SCALE: AS NOTED	CONTRACT NUMBER: 86 PE 004
DESIGNED: BRB	APPROVED:	DRAWING NUMBER: TEX
CHECKED: RAO	DATE: 4-24-86	NUMBER: 83-007-14

