

# ONE 6.0 MILLION GALLON WATER STORAGE TANK

## CONTRACT NO. 86 PE 004 WITH

### TOWN OF ADDISON,

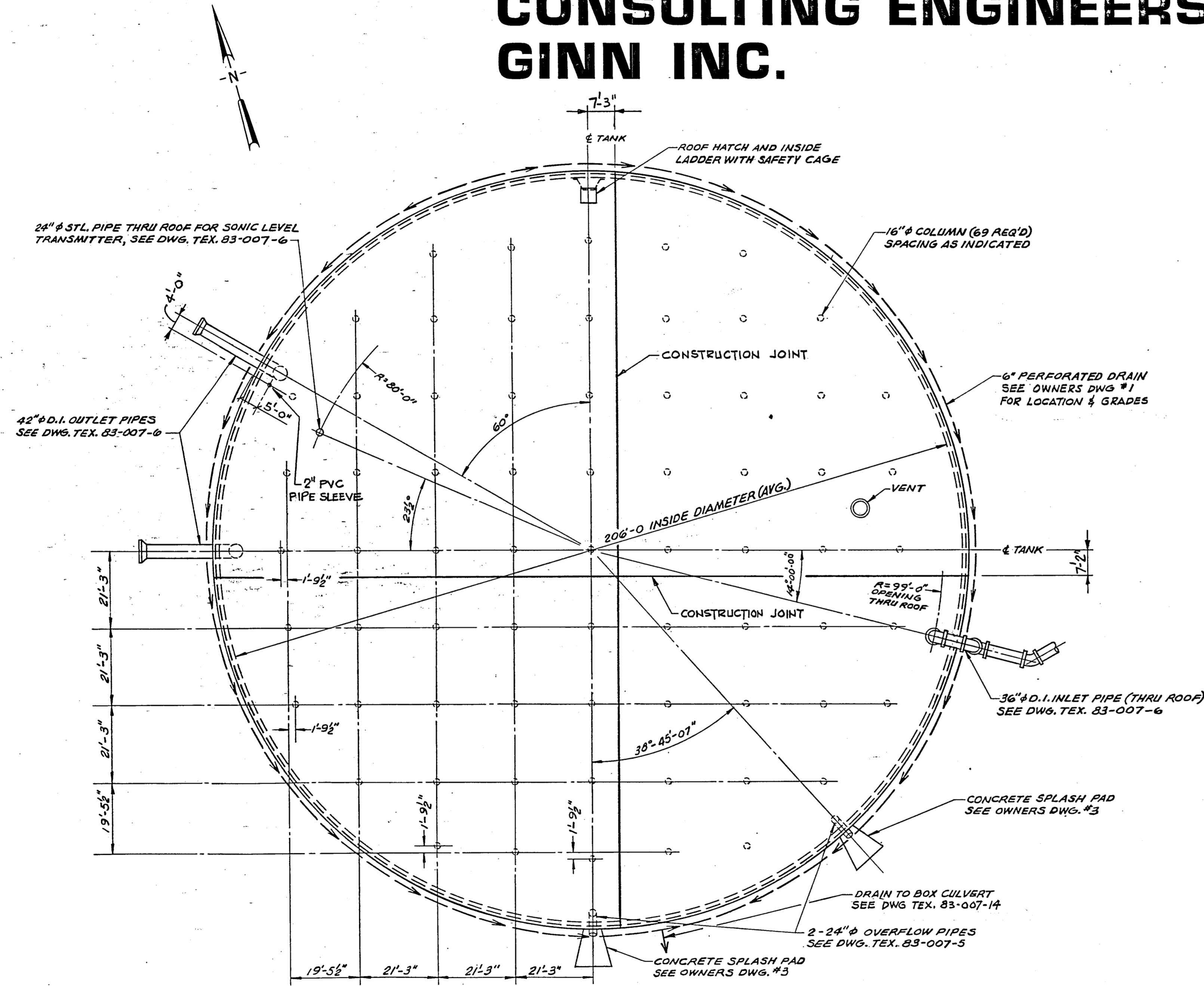
### COUNTY OF DALLAS, TEXAS

### CONSULTING ENGINEERS:

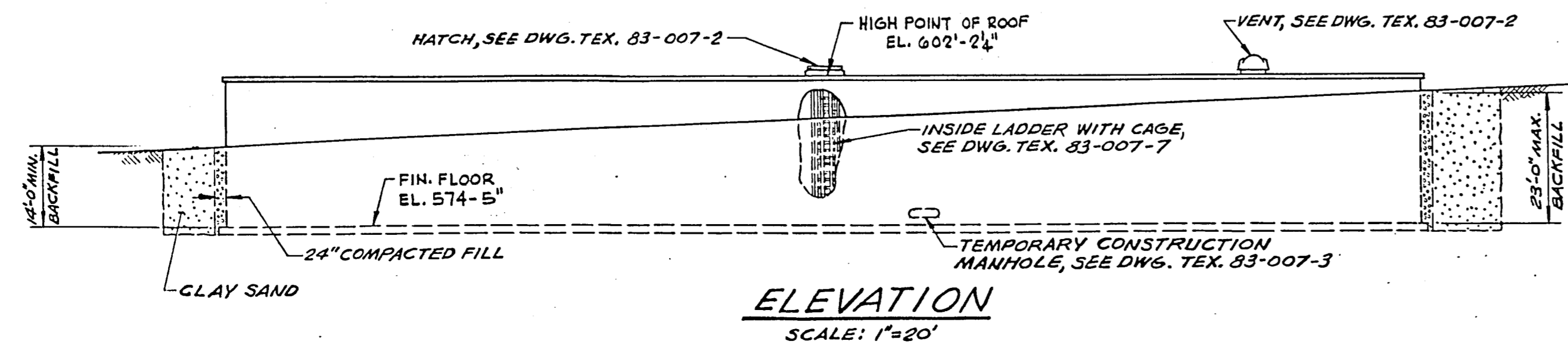
### GINN INC.

#### 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'

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

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
Δ	5/13/86	REV. PERF. DRAIN; ADDED ELEV.'S ON TANK ELEV.	E	RAO
A	4/13/87	AS BUILT	E	



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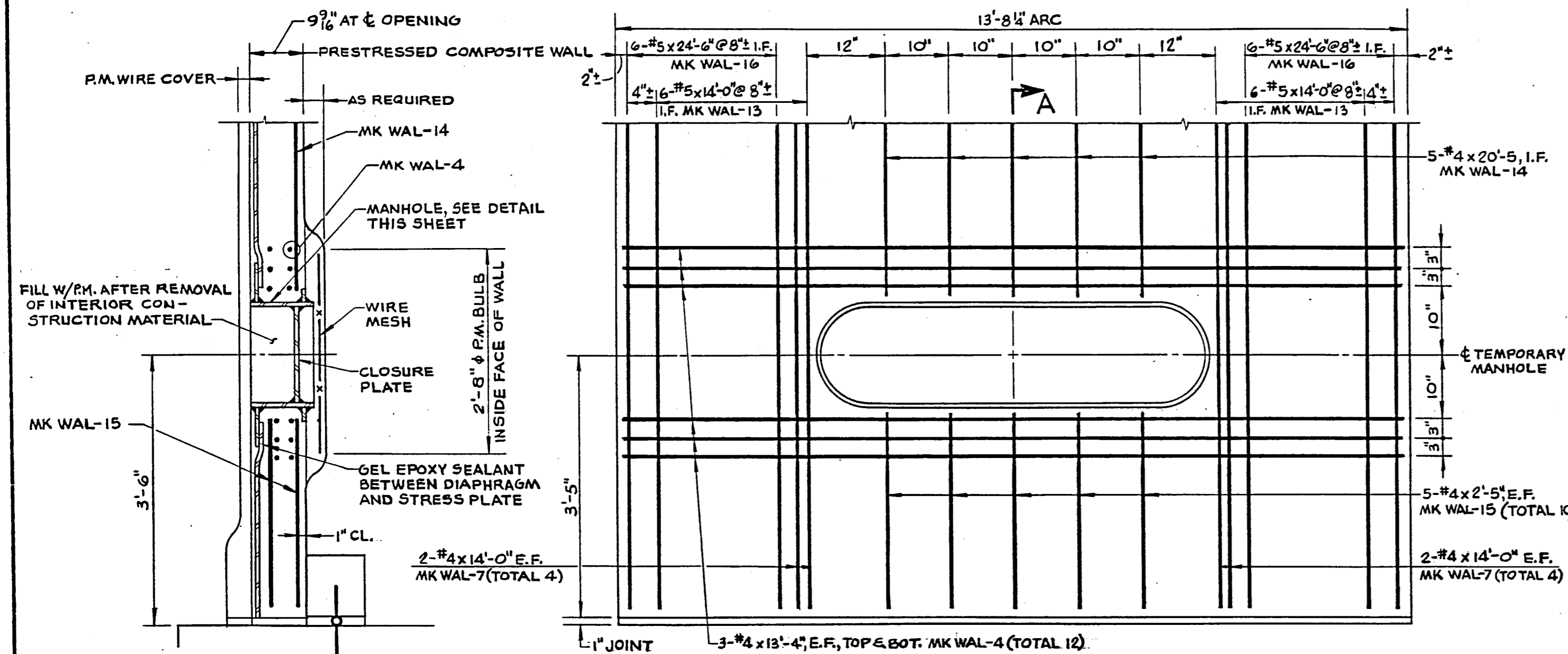
**WORKING DRAWING**

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

**GENERAL ARRANGEMENT**

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

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

MISC. IRON SCHEDULE

MS	QUANTITY	SIZE	LENGTH	WT. (LBS.)	SKETCH	LOCATION
ANC-2	10.8	11	20'-0"	390	FORMULA: TOTAL NO. WALS = 10 WALS = 10 BARS @ 58 (TO NEXT HIGHER 20')	PANEL JOINTS
ANC-3	8	8	4'-7"	55	STAINLESS STEEL	ROOF AT OVER FLOW
ANC-4	234	239	1/2" φ	212	2 1/2" THREAD	WATER STOP ENCASMENT
ANC-5	4	4	1/2" φ	6	2 1/2" THREAD	D.I. INLET PIPE
ANC-8	4	4	1" φ	29	2" THREAD	ROOF FOR WIREWINDER
ANC-9	4	4	1" φ	68	2" THREAD	ROOF FOR WIREWINDER
ANC-10	8	9	5/8" φ	41	2 1/2" THREAD	AT INLET PIPE
ANC-11	4	4	1/2" φ	4	2 1/2" THREAD	D.I. INLET PIPE

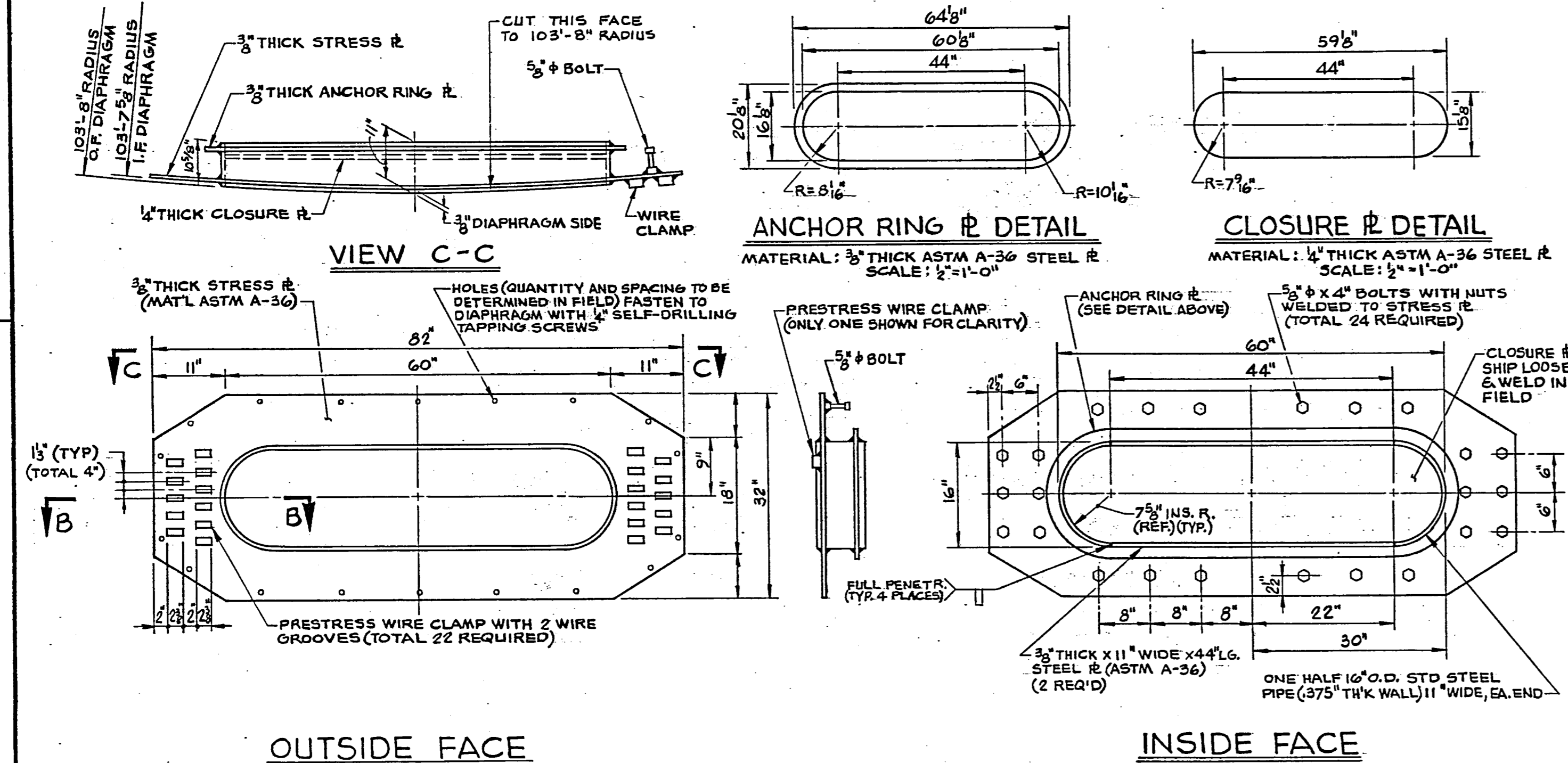
- LEGEND
- STOP AND COAT WIRE
  - ▲ DIRECTION OF APPLICATION
  - DIE ON TOP OF MACHINE
  - DIE ON BOTTOM OF MACHINE
  - \* - WIRES ANCHORED TO STRESS R

- TEMPORARY MANHOLE PRESTRESSING PROCEDURE
- Weld bottom half of clamps to stress plate using E70XX electrodes. All welding shall be in accordance with AWS D1.1-81.
  - 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.

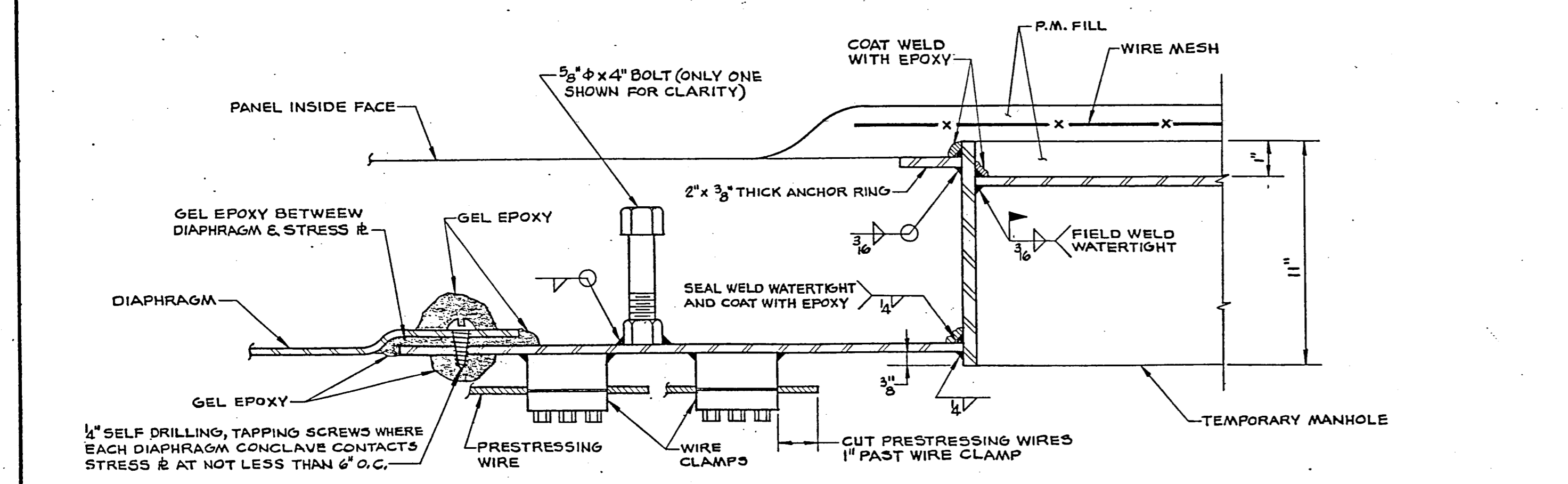
PRESTRESS WIRE QUANTITIES

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 =  $\frac{206 + 2(0.71)}{1.0 + (2 \times \text{WALL THICK})} \times \pi = 652'$

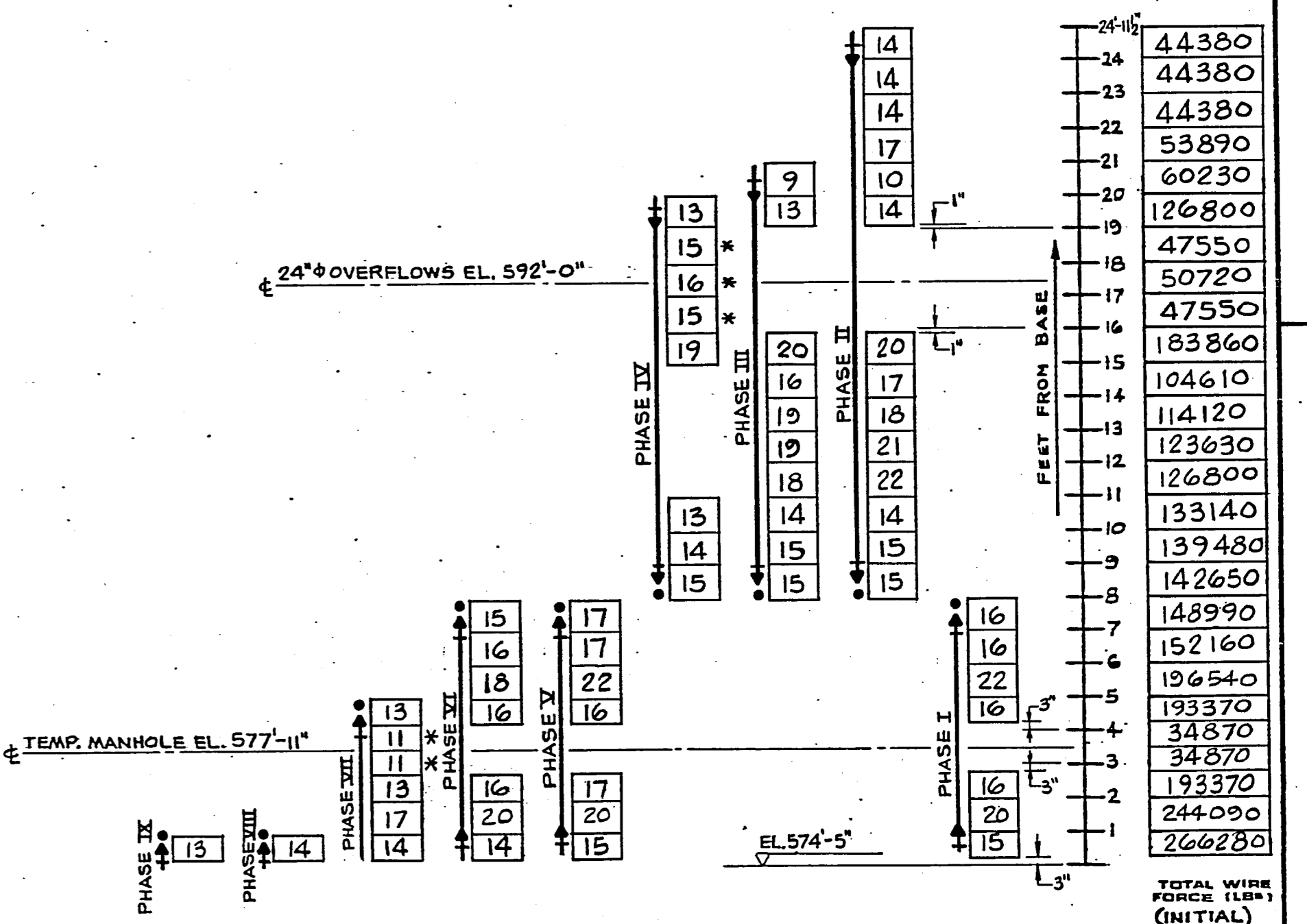


STRESS PLATE DETAILS



SECTION B-B

THE DETAILS SHOWN ON THIS DRAWING SHALL BE PRODUCED WITHIN THE GUIDELINES AND REQUIREMENTS SPECIFIED IN PRELOAD CO. CONSTRUCTION SPECIFICATIONS & PROCEDURES - NO. CS-23P.



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.

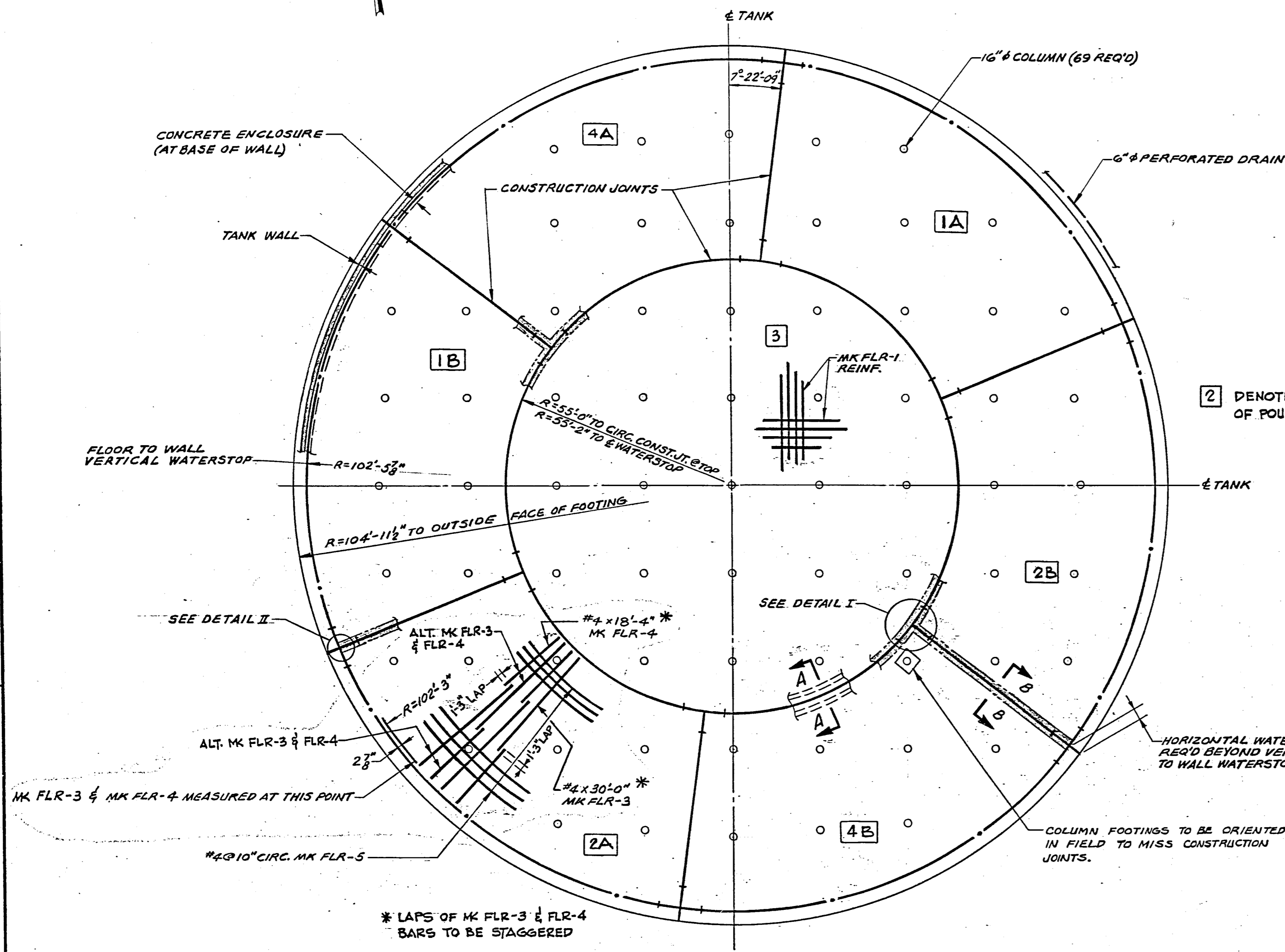
REVISIONS

NO.	DATE	DESCRIPTION	BY	CKD
1	5/13/86	REV. NOTE - TEMP MANHOLE PANEL	E	RAO
2	7/17/86	MISC. IRON SCHEDULE	PV	RAO
3	1/13/87	AS BUILT	E	

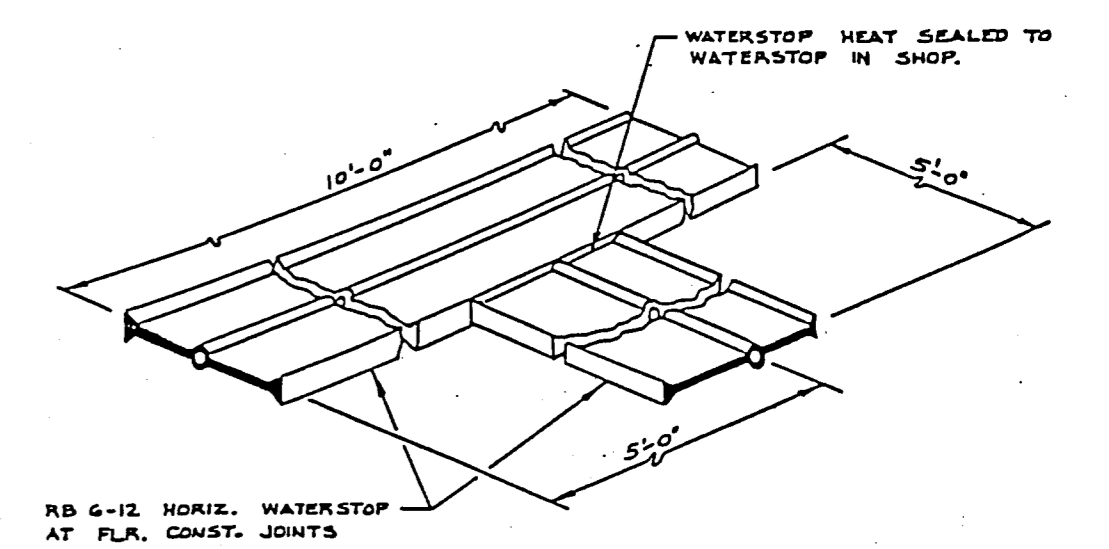
PRELOAD  
 839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

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

DRAWN: PV SCALE: NONE CONTRACT NUMBER: 86 PE004  
 DESIGNED: FD MTO: DRAWING NUMBER: 83-007-3  
 CHECKED: RAO DATE: 4-24-86

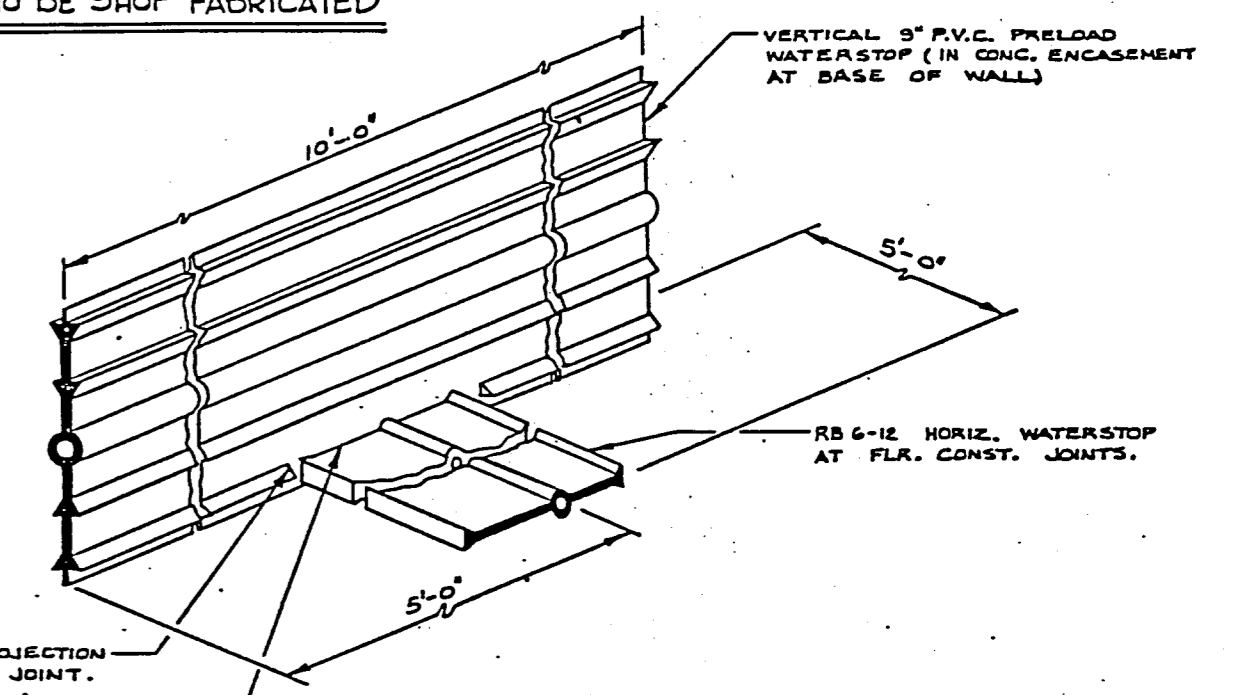


CONCRETE QUANTITIES	
ITEM	CU. YDS.
FLOOR & FOOTING	540.6
PIPE ENCASEMENT	15.9
WALL PANELS	381.8
CURB	15.0
COLUMN FOOTINGS	54.6
COLUMNS	99.8
ROOF SLAB	793.4
TOTAL YARDAGE (NEAT)	1901.1

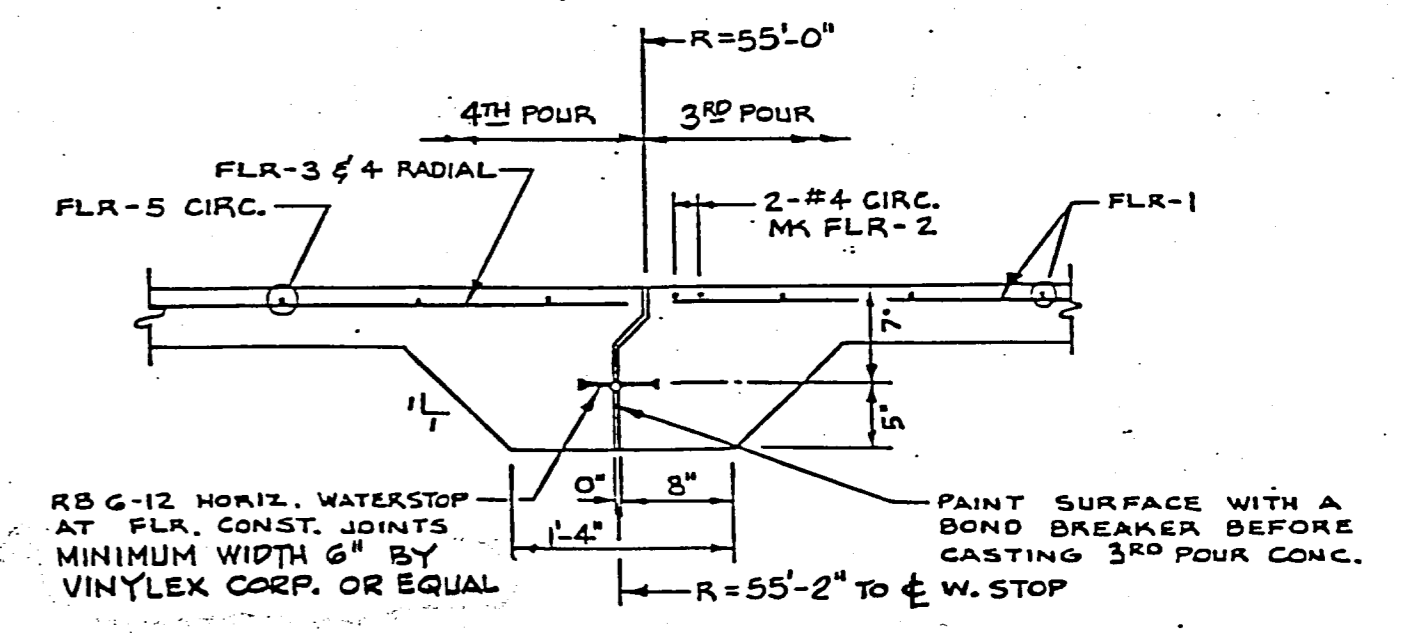


**DETAIL I**  
N.T.S.  
TOTAL: 7 REQ'D  
(6 JOINTS PLUS 1 ADD'L)

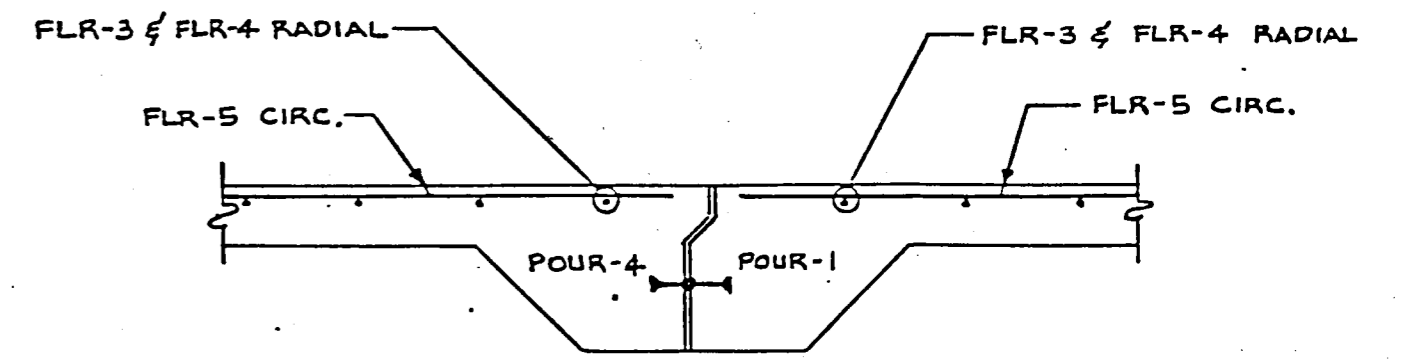
ALL DETAILS I & II TO BE SHOP FABRICATED



**DETAIL II**  
N.T.S.  
TOTAL: 7 REQ'D  
(6 JOINTS PLUS 1 ADD'L)

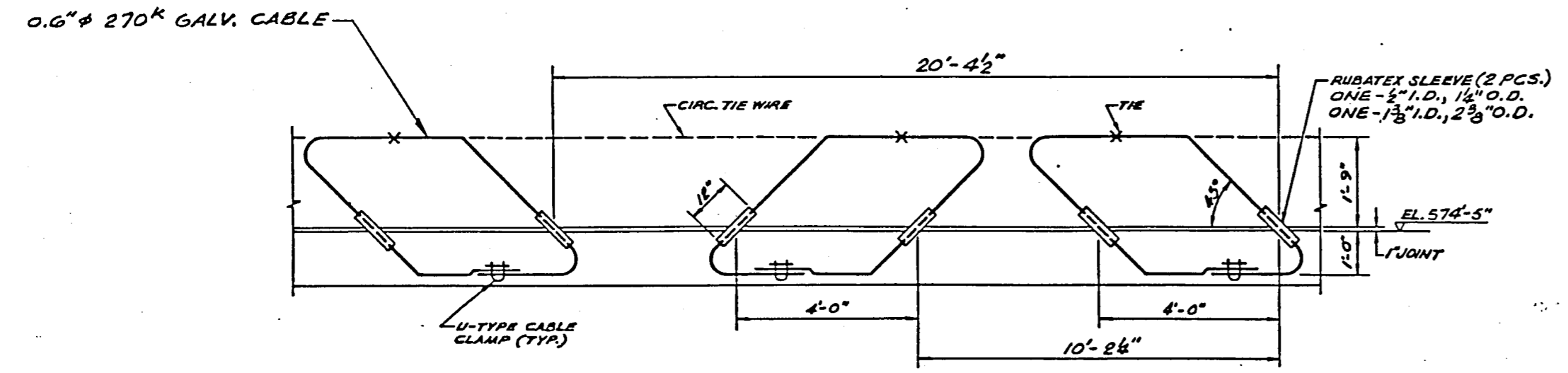


**SECTION A-A**  
(N.T.S.)



**SECTION B-B (N.T.S.)**  
(SIMILAR TO SECT. A-A EXCEPT AS NOTED.)

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



**BASE CABLE DETAILS**  
(64 REQUIRED)

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

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CHKD
Δ	5/13/86	REV. FLOOR REINF. & HORIZ. WATERSTOP (SECT. A-A)	E	RAO
A	4/13/87	AS BUILT	E	

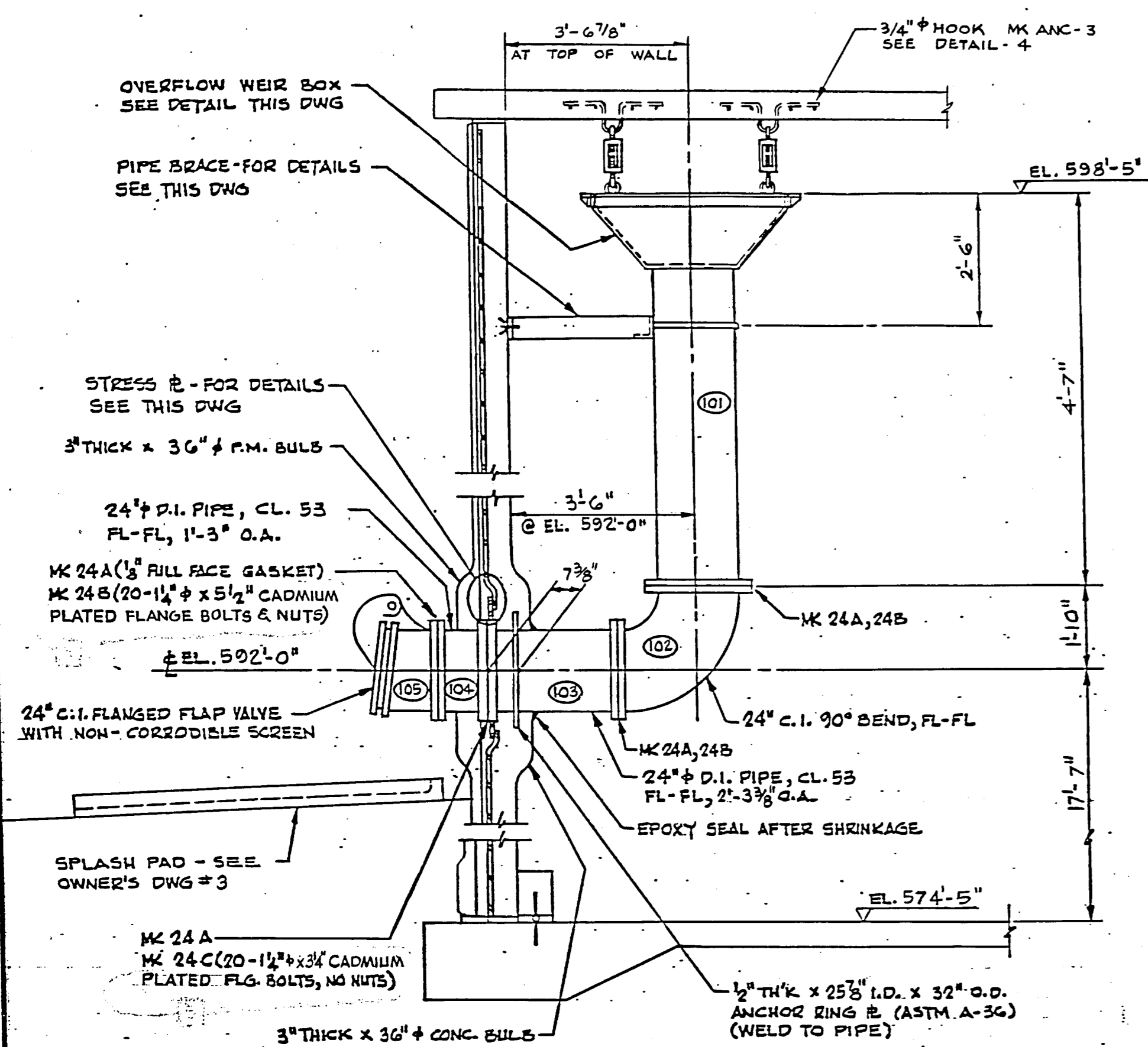


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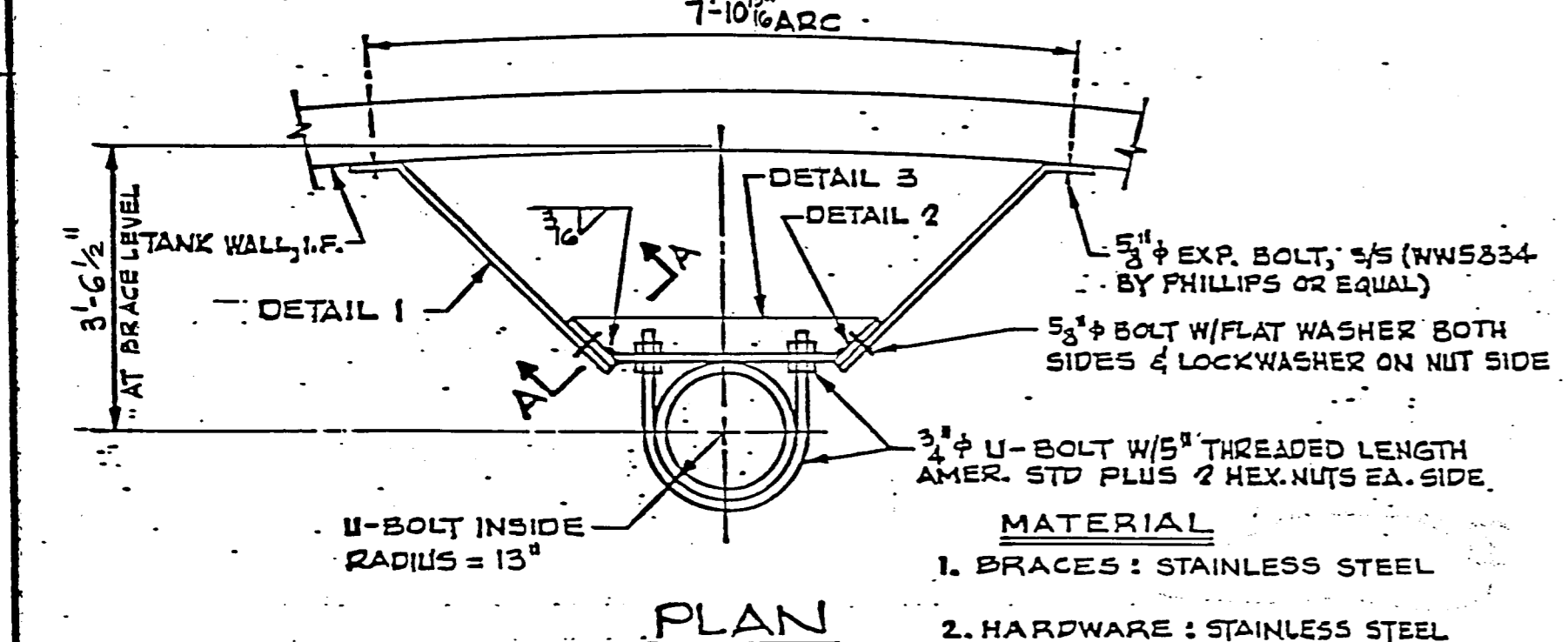
**WORKING DRAWING**  
**ONE 6.0 M.G. WATER STORAGE TANK**  
**ADDISON, TEXAS**

**FLOOR DETAILS**

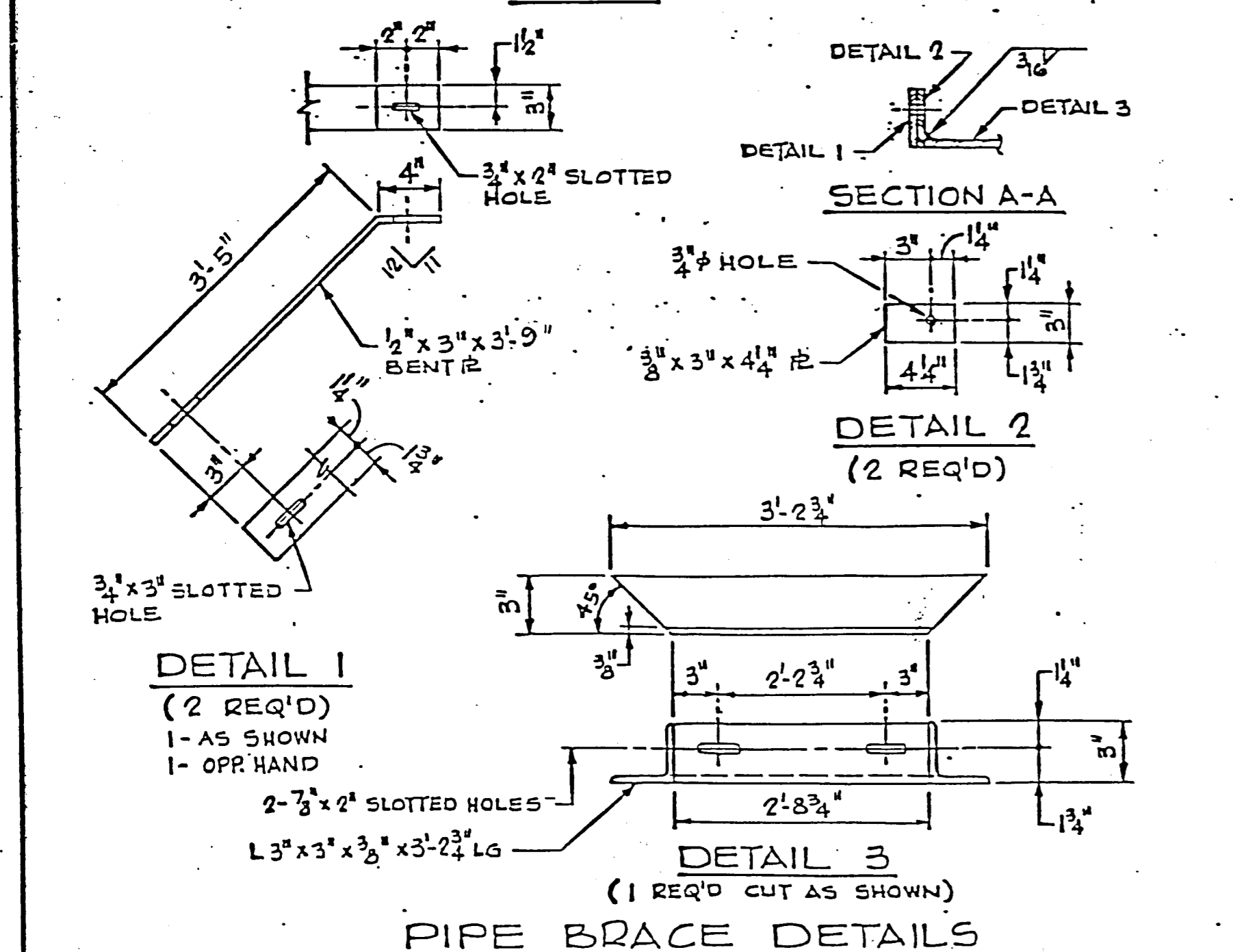
DRAWN: PV SCALE: N.T.S. CONTRACT: 86 PE 004  
DESIGNED: FD APPROVED: DRAWING NUMBER: 75X  
CHECKED: RAO DATE: 4-24-86 NUMBER: 83-007-4



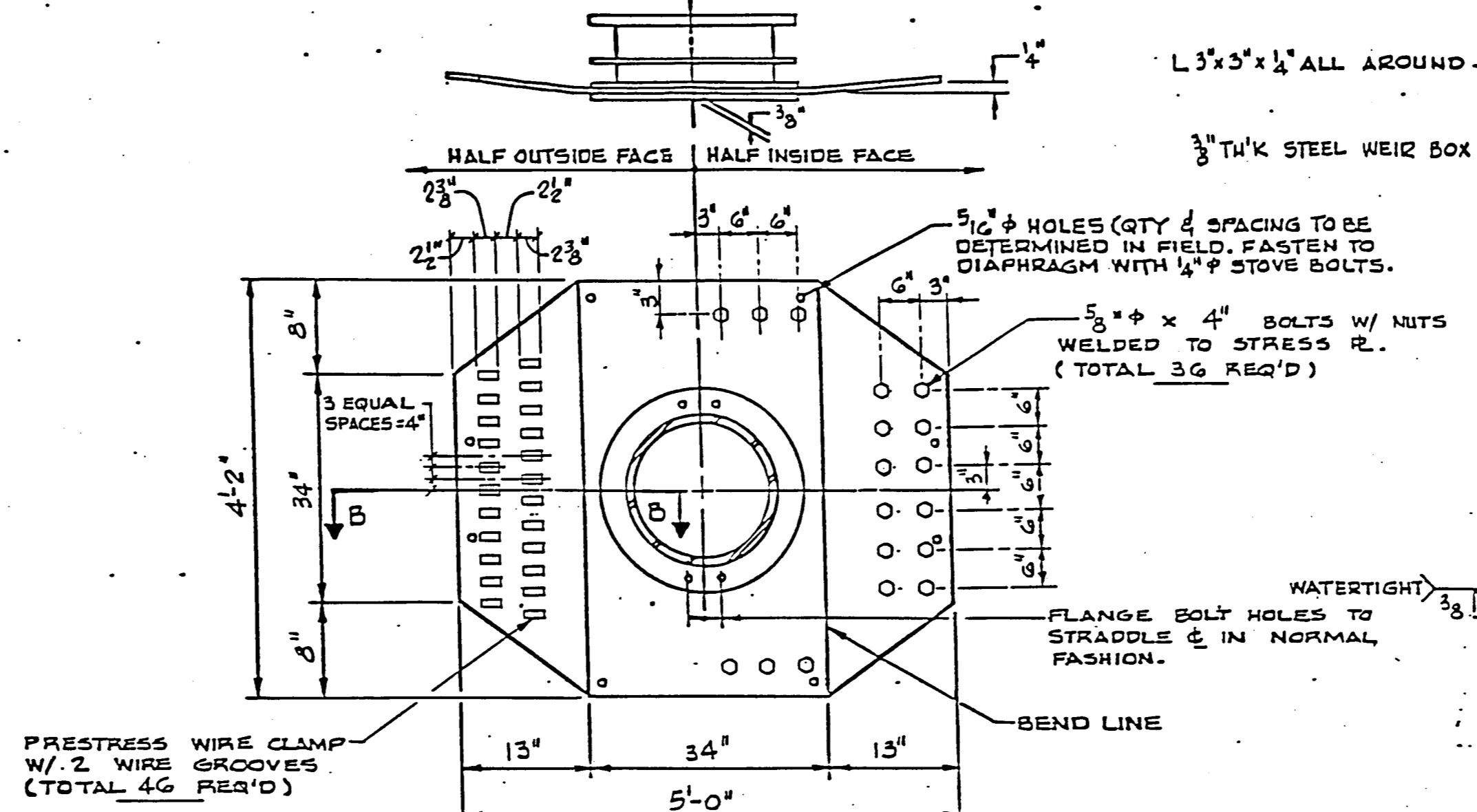
**OVERFLOW PIPE DETAIL**  
(2 REQ'D)



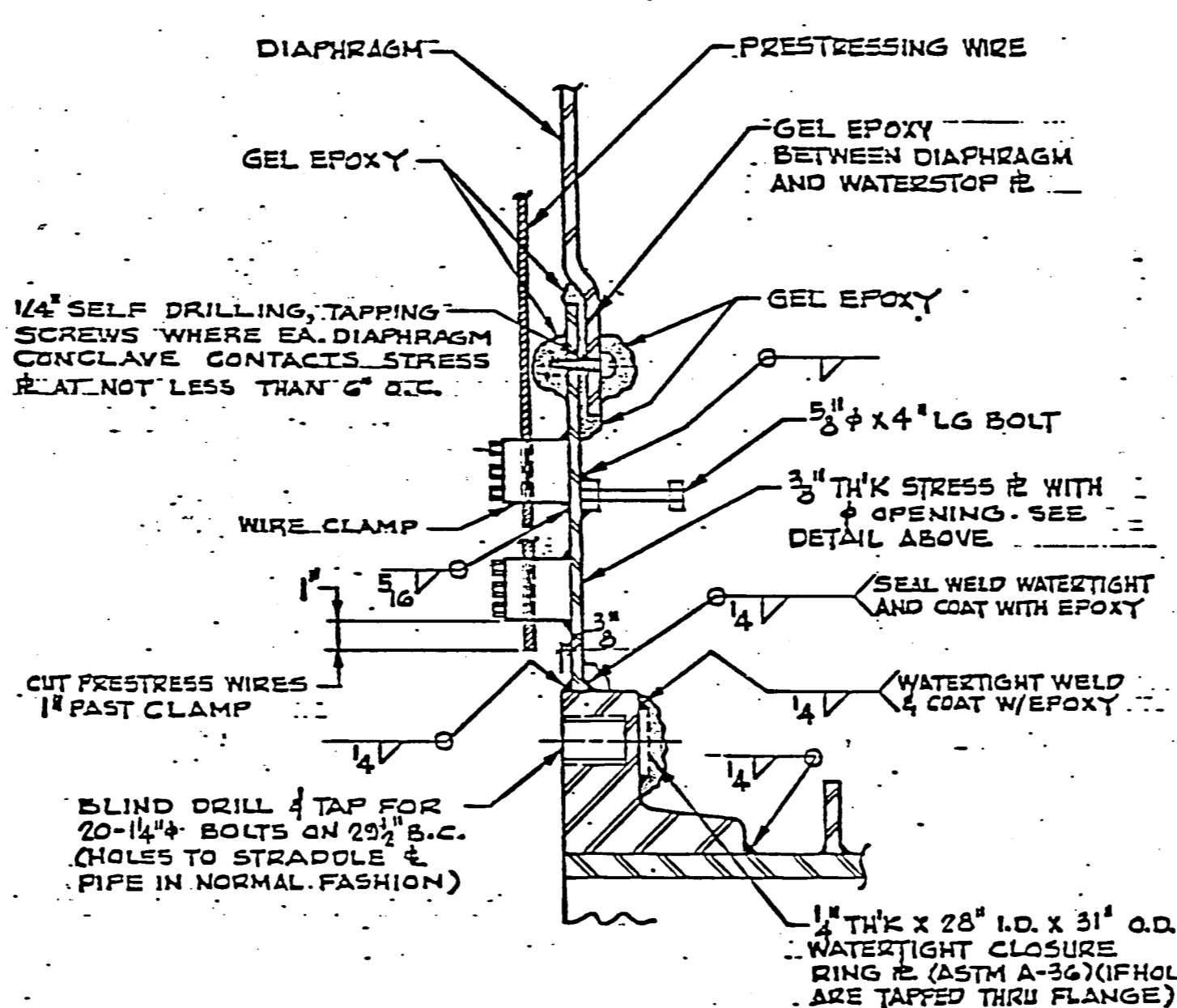
**PLAN**



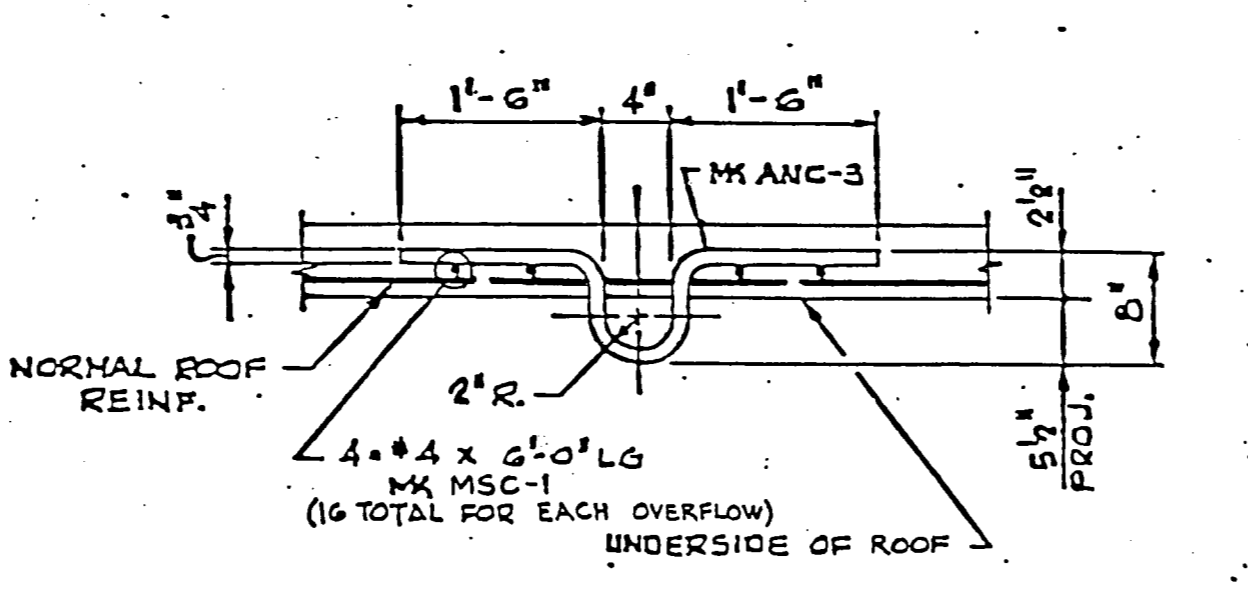
**PIPE BRACE DETAILS**



**STRESS PLATE DETAIL**  
1/2\"/>

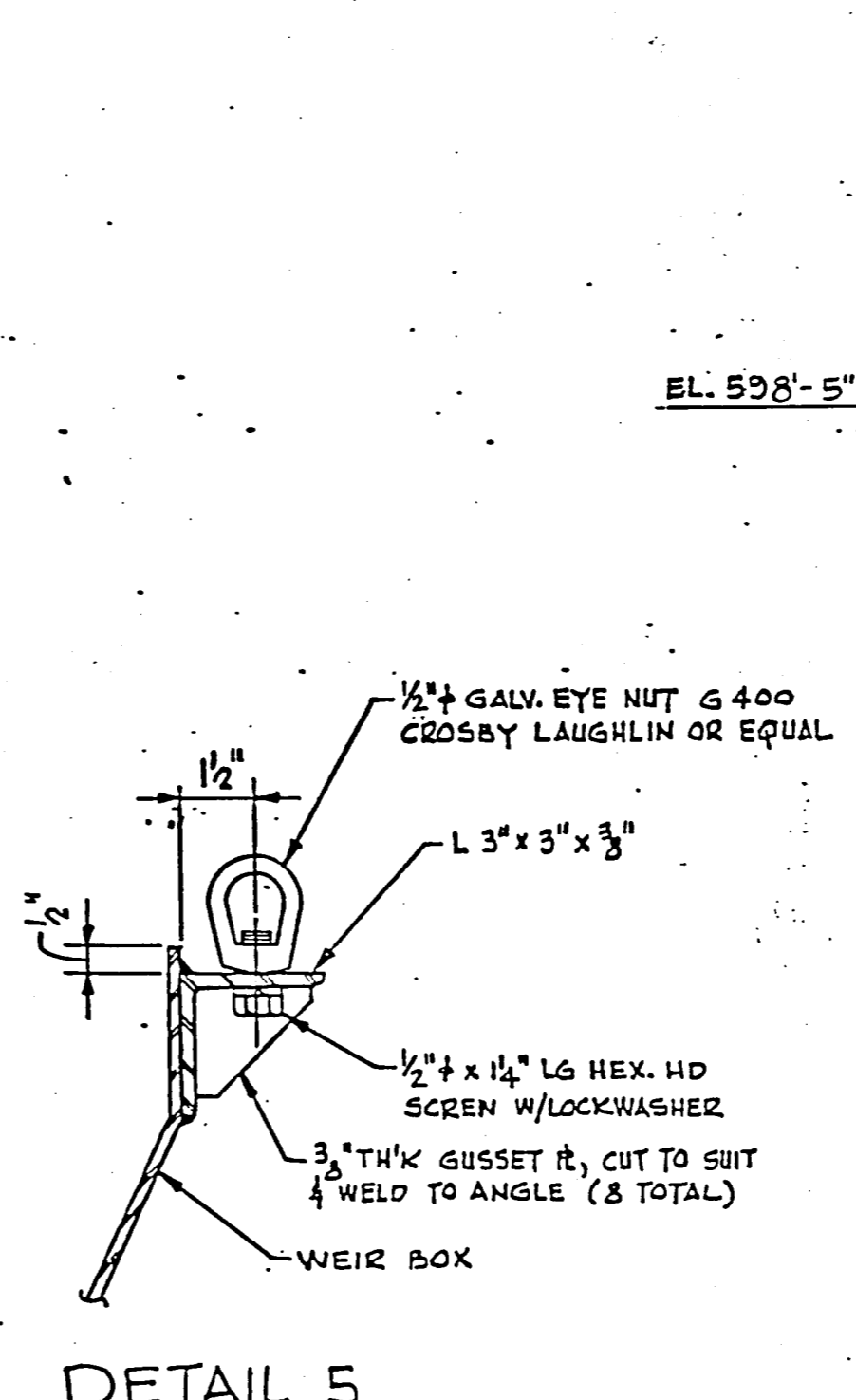


**SECTION B-B**

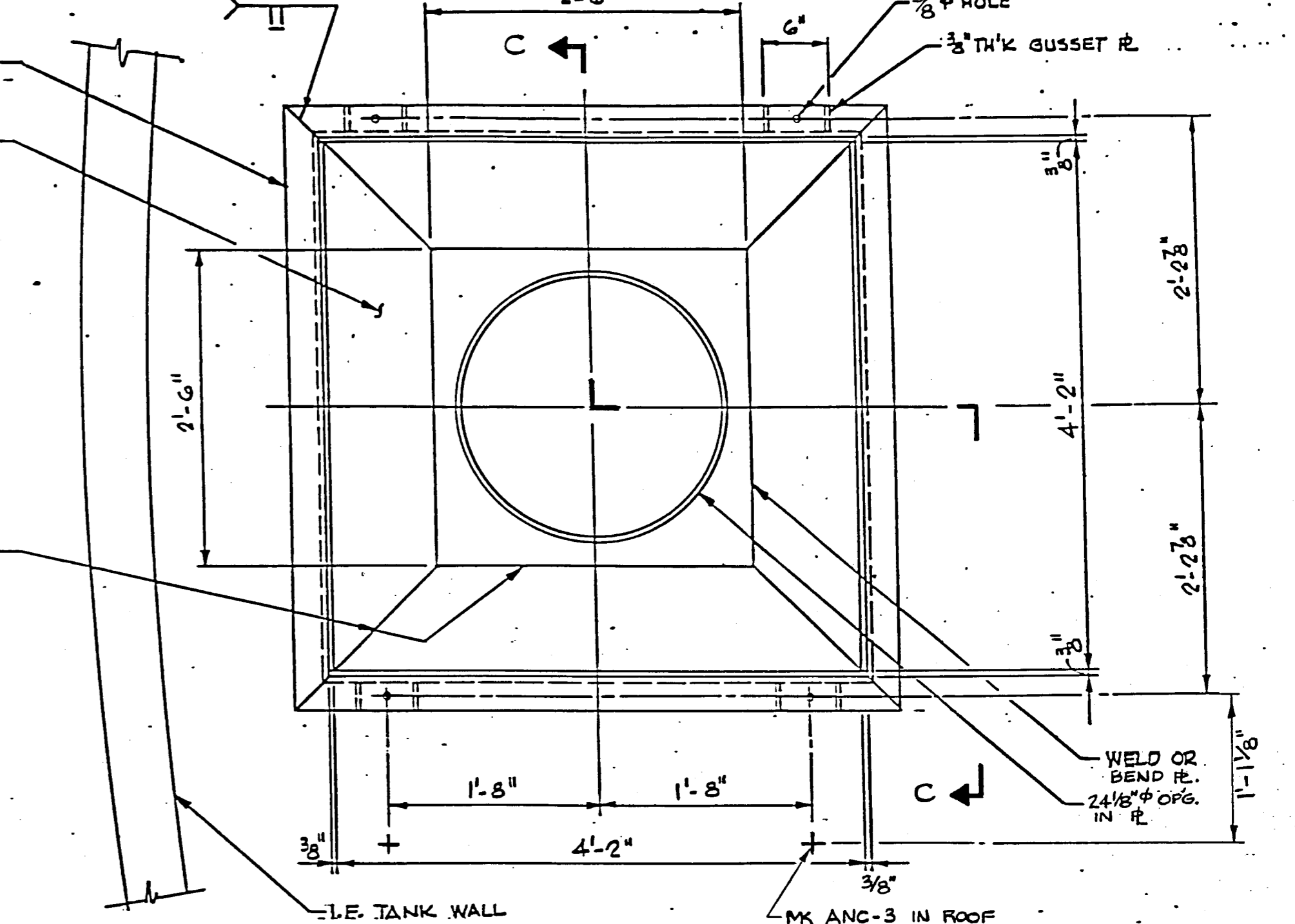


**DETAIL 4**  
(MAT'L: 3/4\"/>

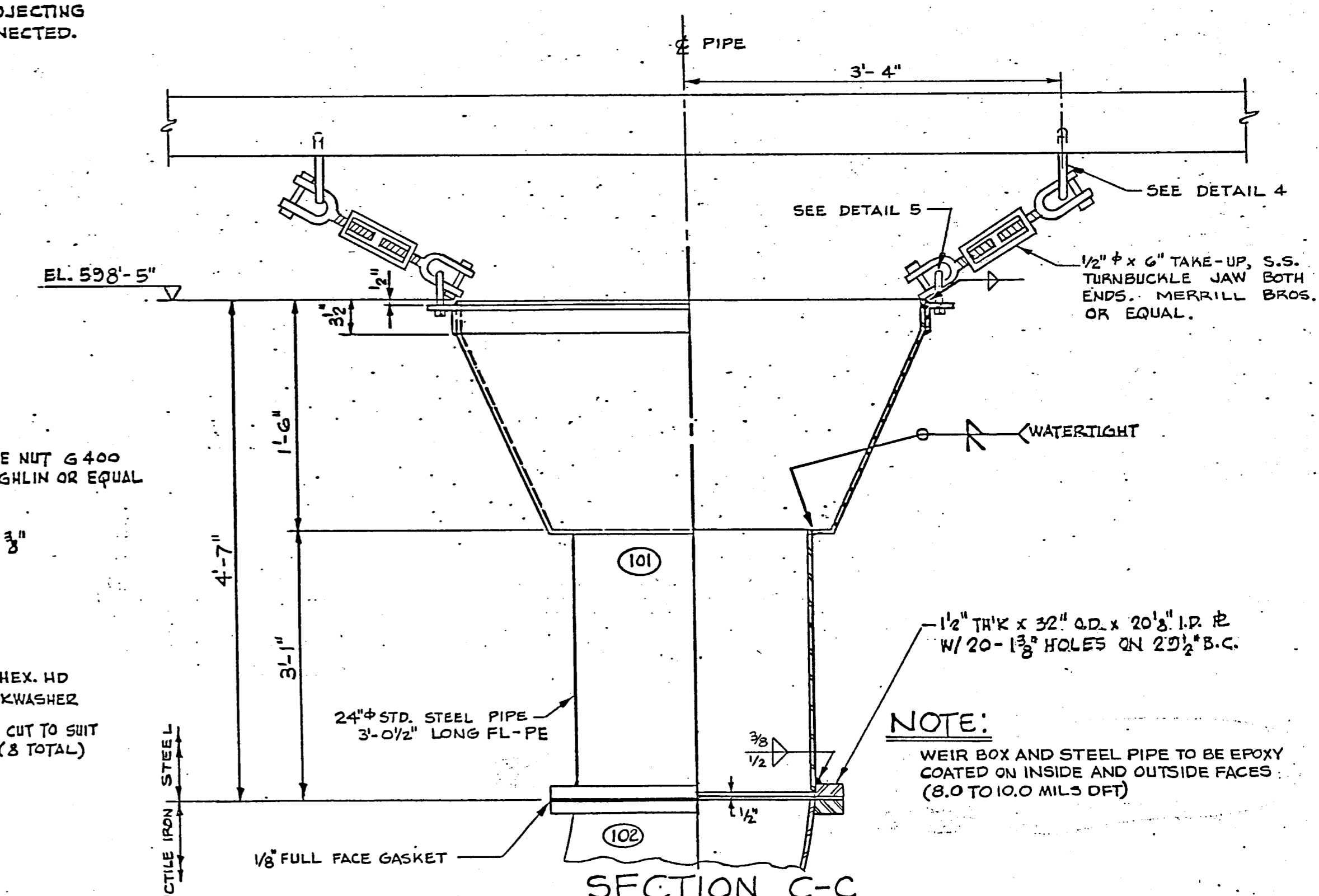
- OVERFLOW PRESTRESSING PROCEDURE**
1. WELD CLAMPS TO STRESS RING USING E70XX ELECTRODES. ALL WELDING SHALL BE IN ACCORDANCE WITH ANSI/AWS D11.81.
  2. WRAP WIRES OVER OVERFLOW, MAKING SURE WIRES DROP INTO SLOTS IN CLAMPS.
  3. INSTALL TOP HALF OF CLAMPS & TIGHTEN WITH BOLTS.
  4. CUT WIRES 1\"/>



**DETAIL 5**



**OVERFLOW WEIR BOX DETAIL**



**SECTION C-C**

- 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.
  3. EPOXY COATINGS TO BE NEMEC OR APPROVED EQUAL WITH A MINIMUM 8.0-10.0 DFT.

THE DETAILS SHOWN ON THIS DRAWING SHALL BE PRODUCED WITHIN THE GUIDELINES AND REQUIREMENTS SPECIFIED IN PRELOAD CO. CONSTRUCTION SPECIFICATIONS & PROCEDURES NO. CS-283.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
1	5/13/80	REVISED SECT. C-C	JD	RAO
2	5/23/80	PER ENGINEERS COMMENTS	JD	RAO
3	6/27/80	REVISED AS SHOWN	PV	RAO
4	4/13/87	AS BUILT	JE	

**PRELOAD**  
839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

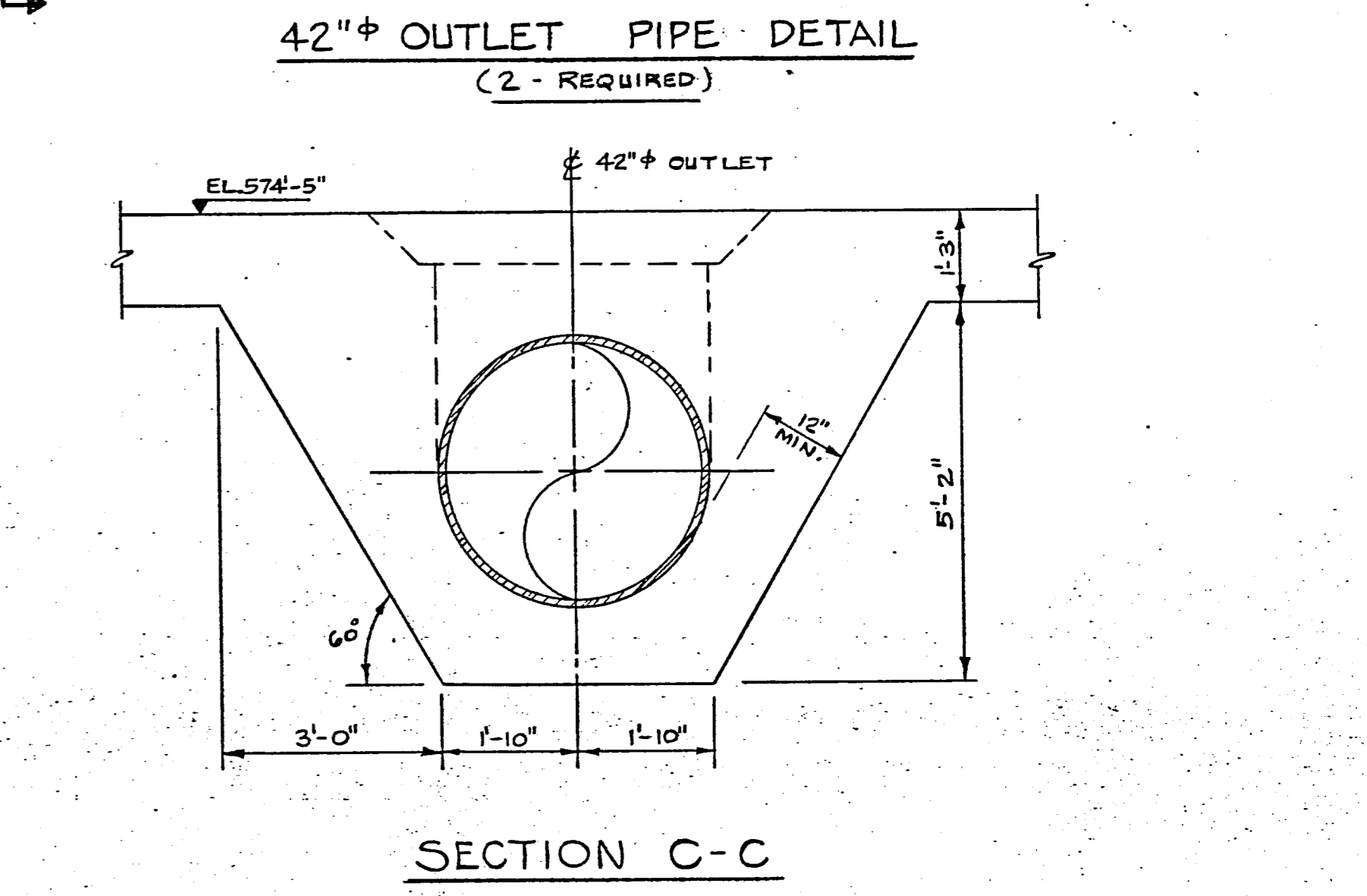
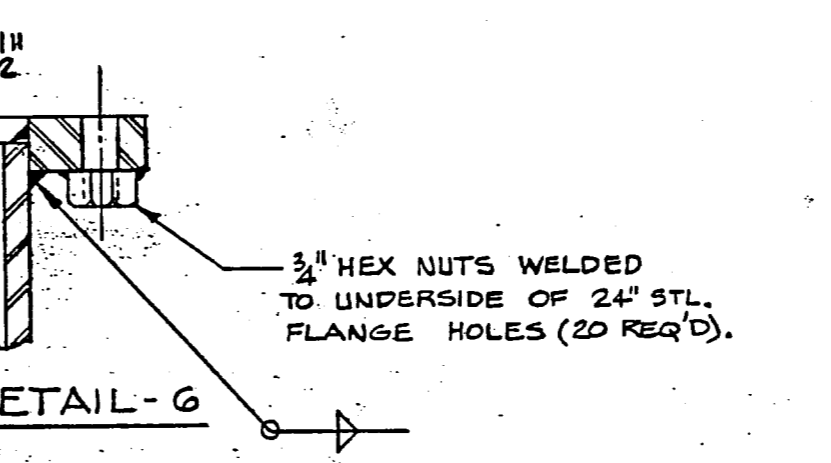
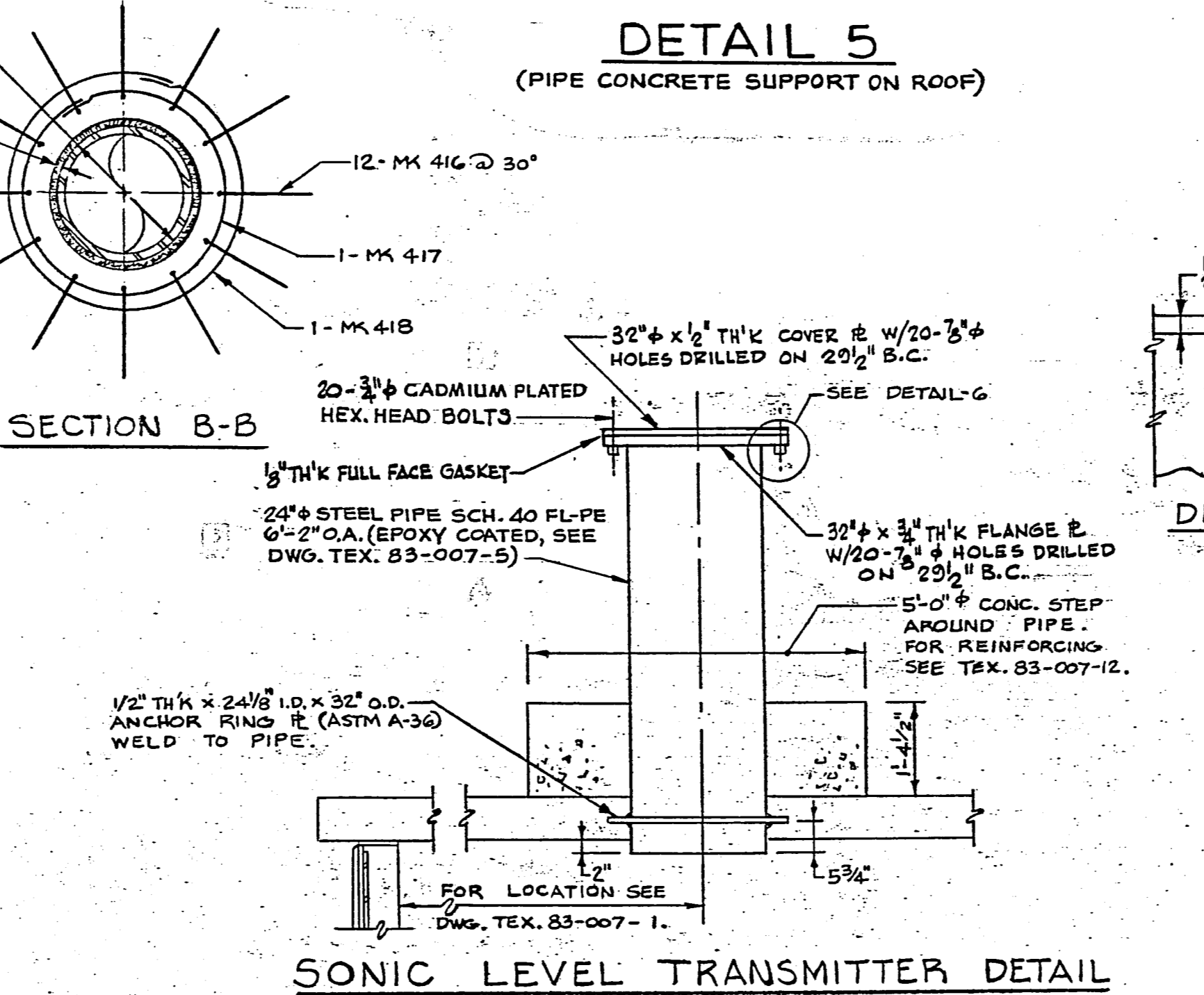
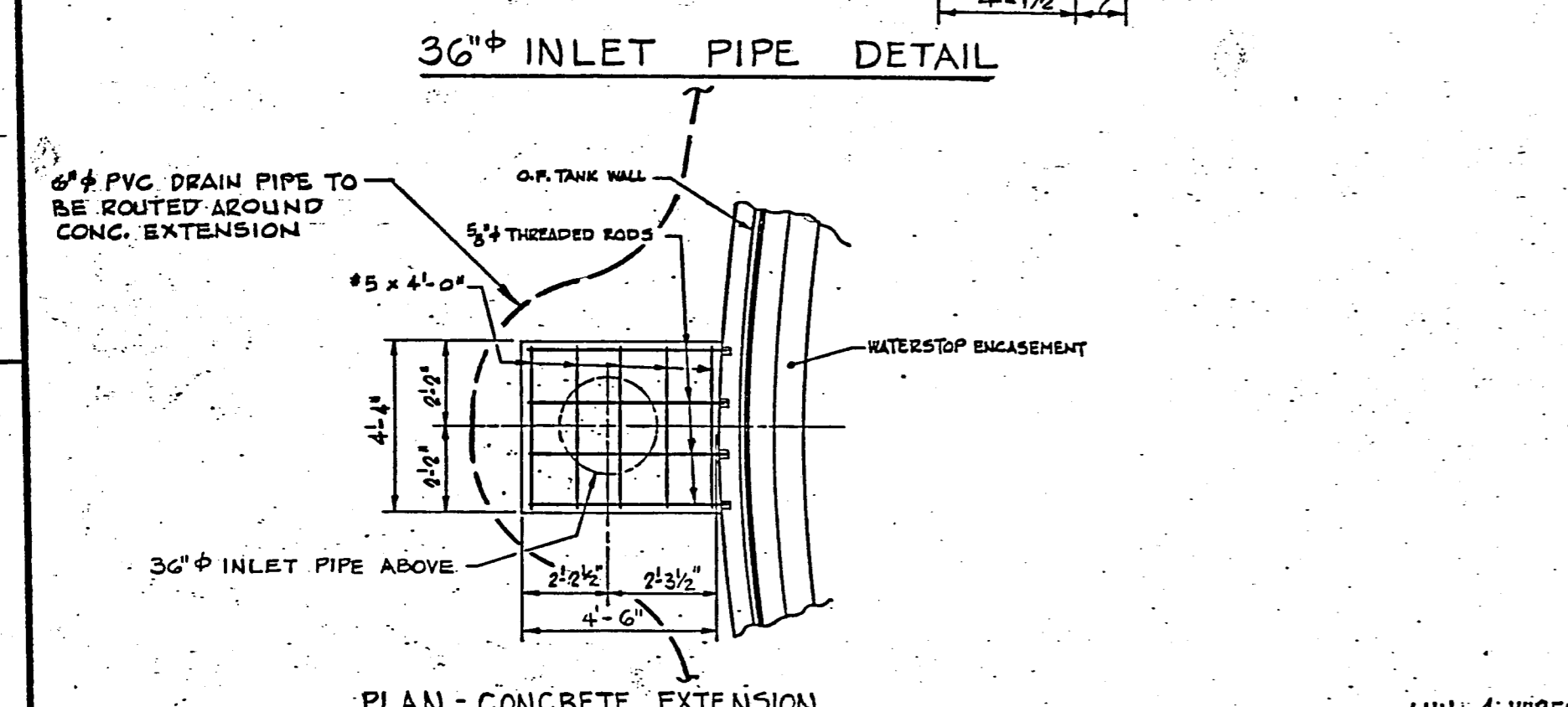
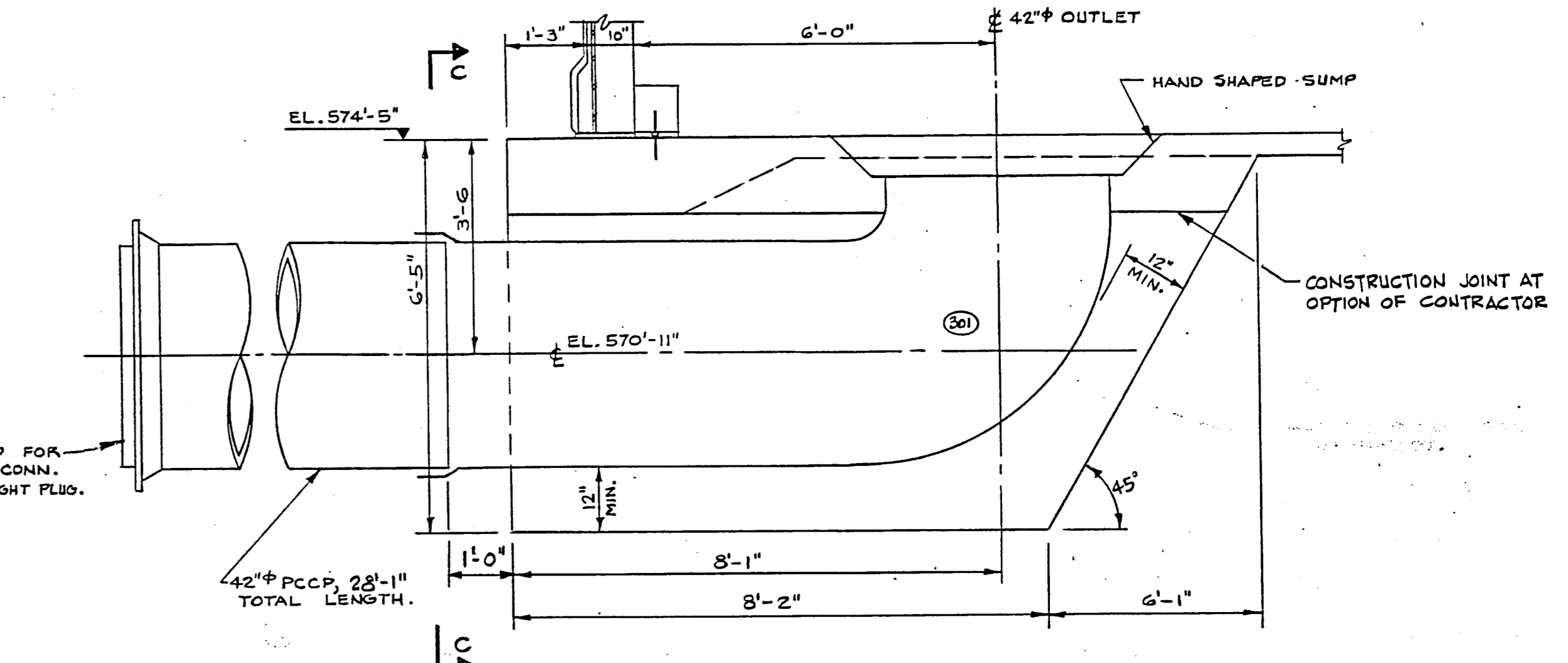
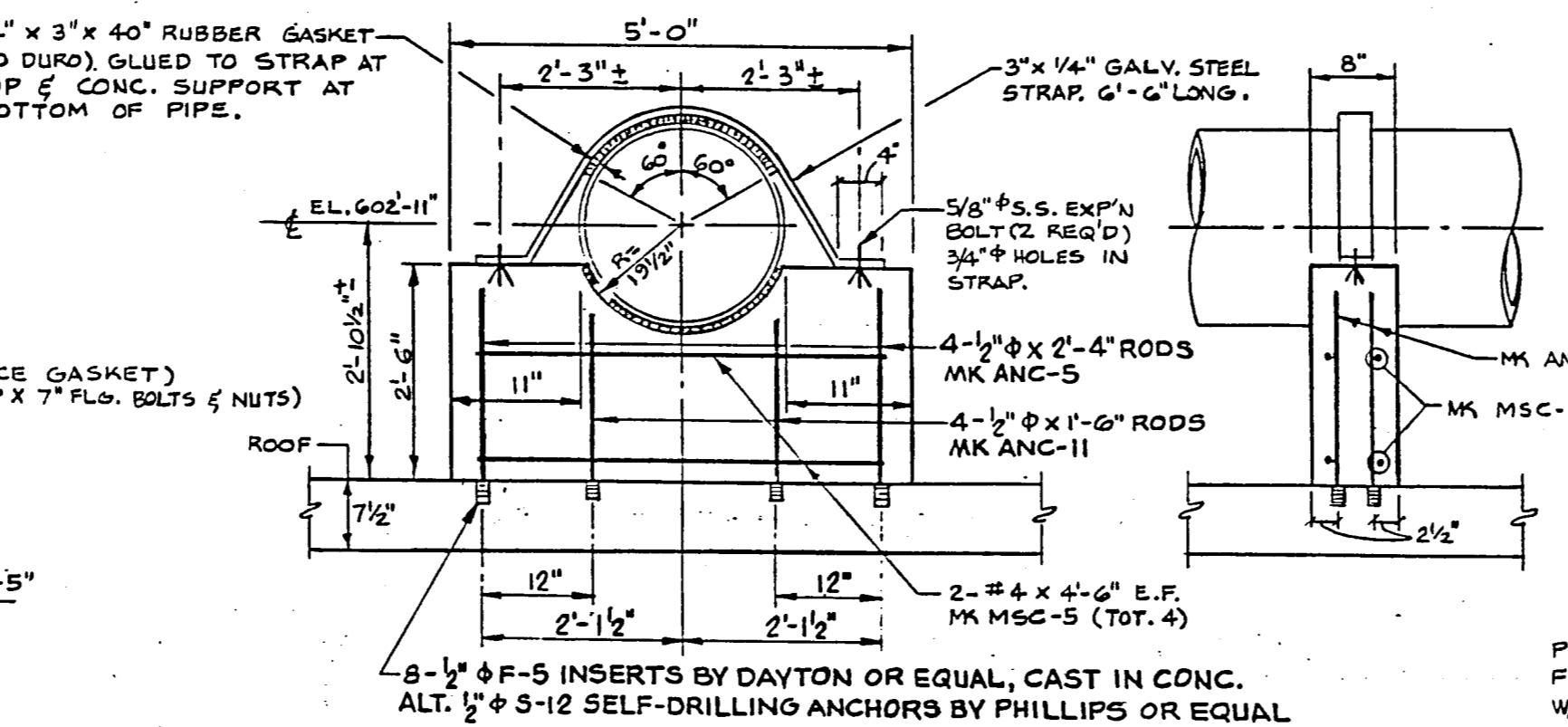
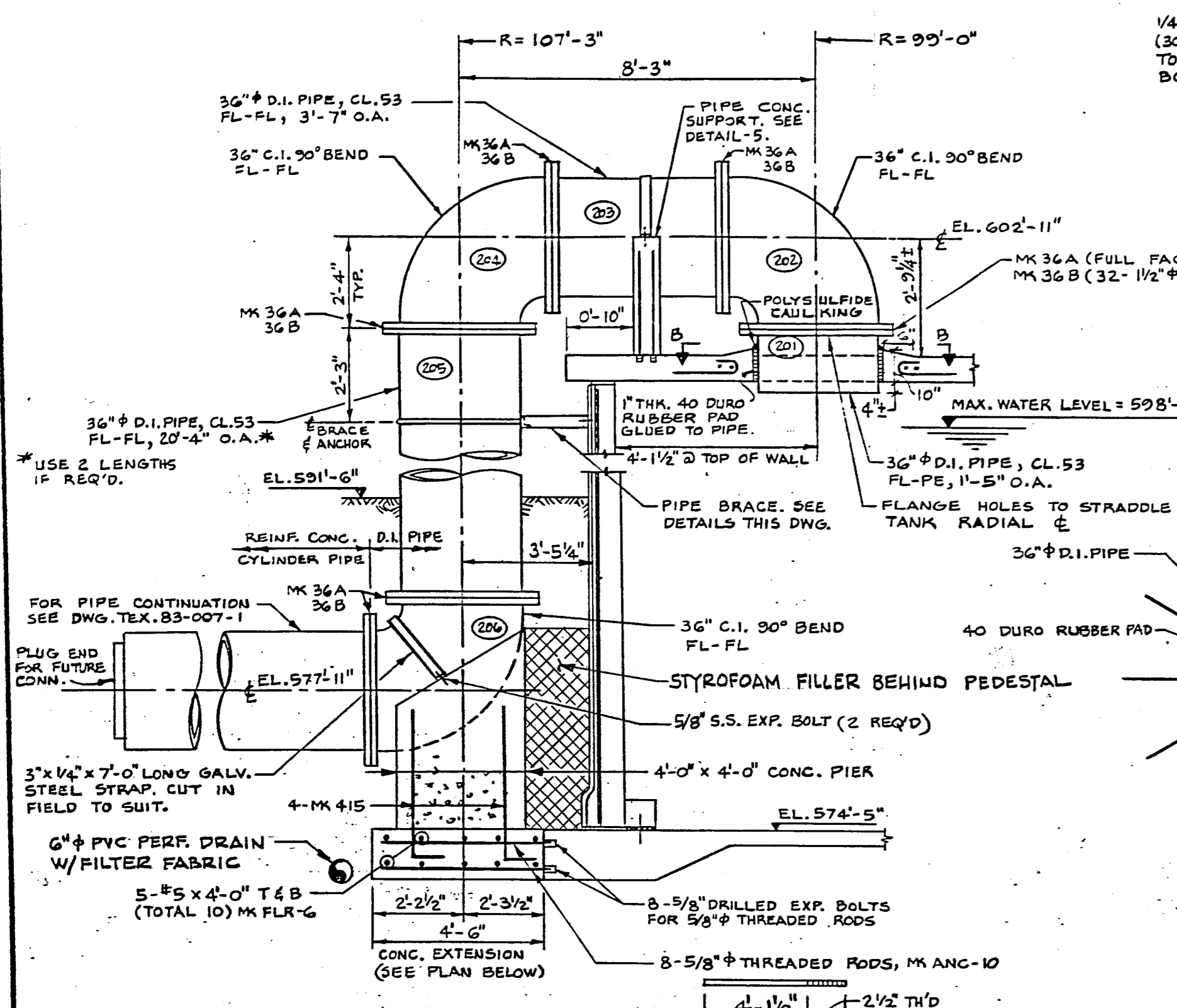
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**WORKING DRAWING**  
ONE 6.0 M.G. WATER STORAGE TANK  
ADDISON, TEXAS

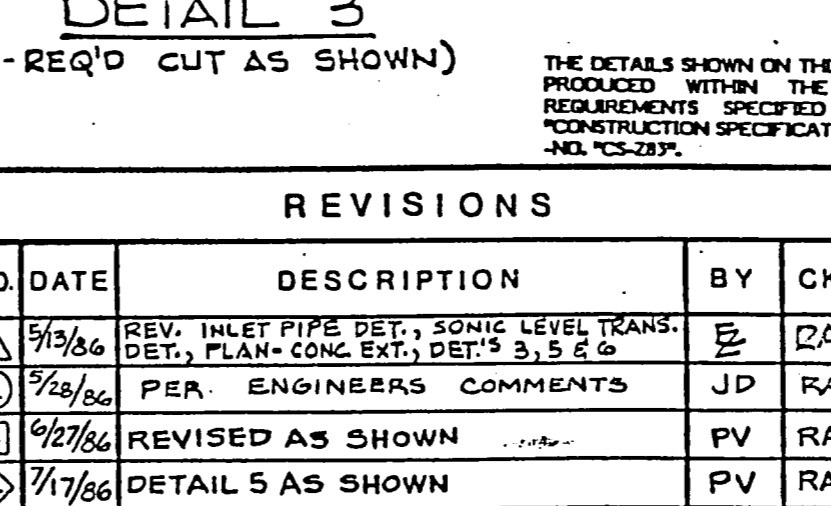
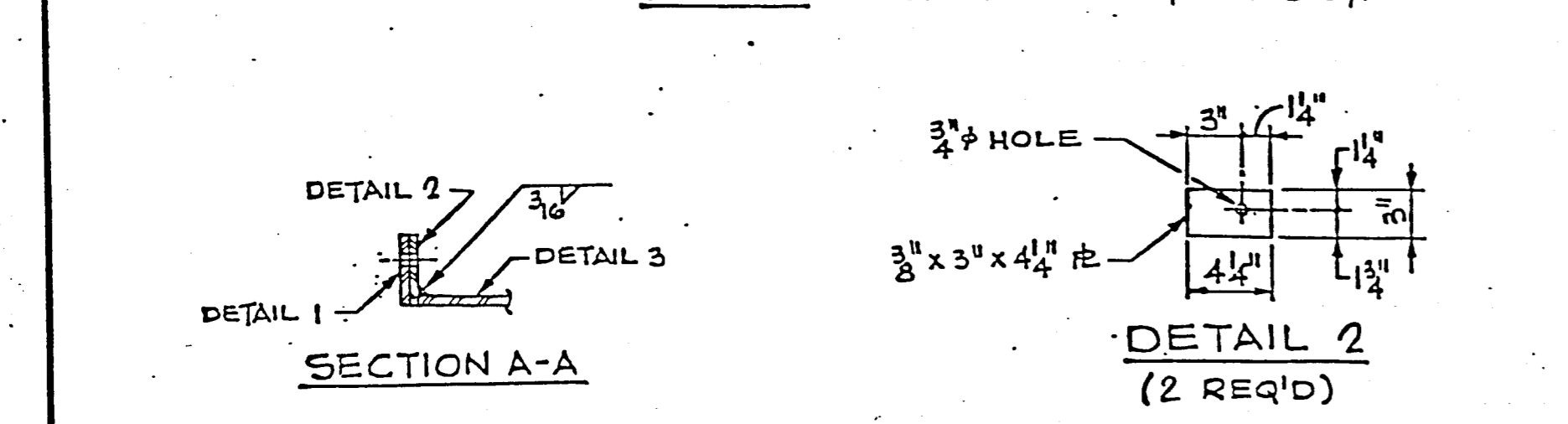
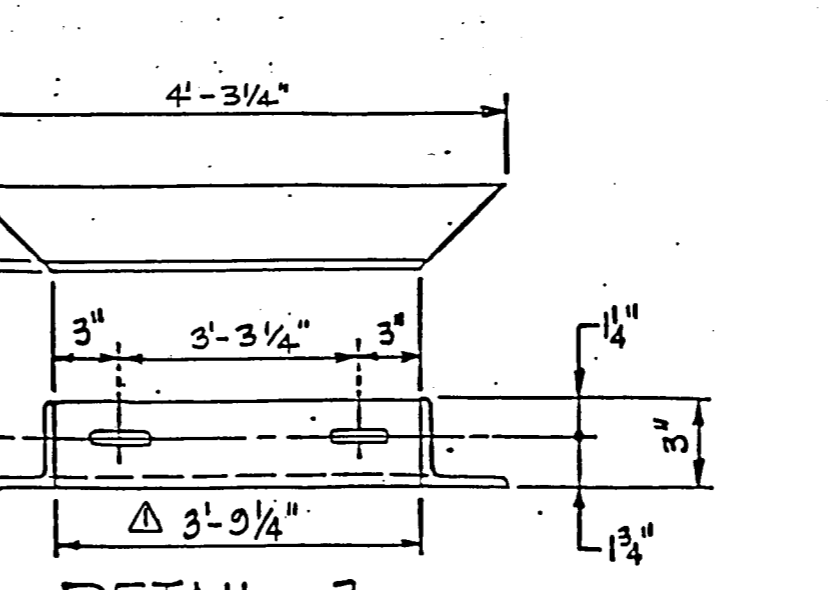
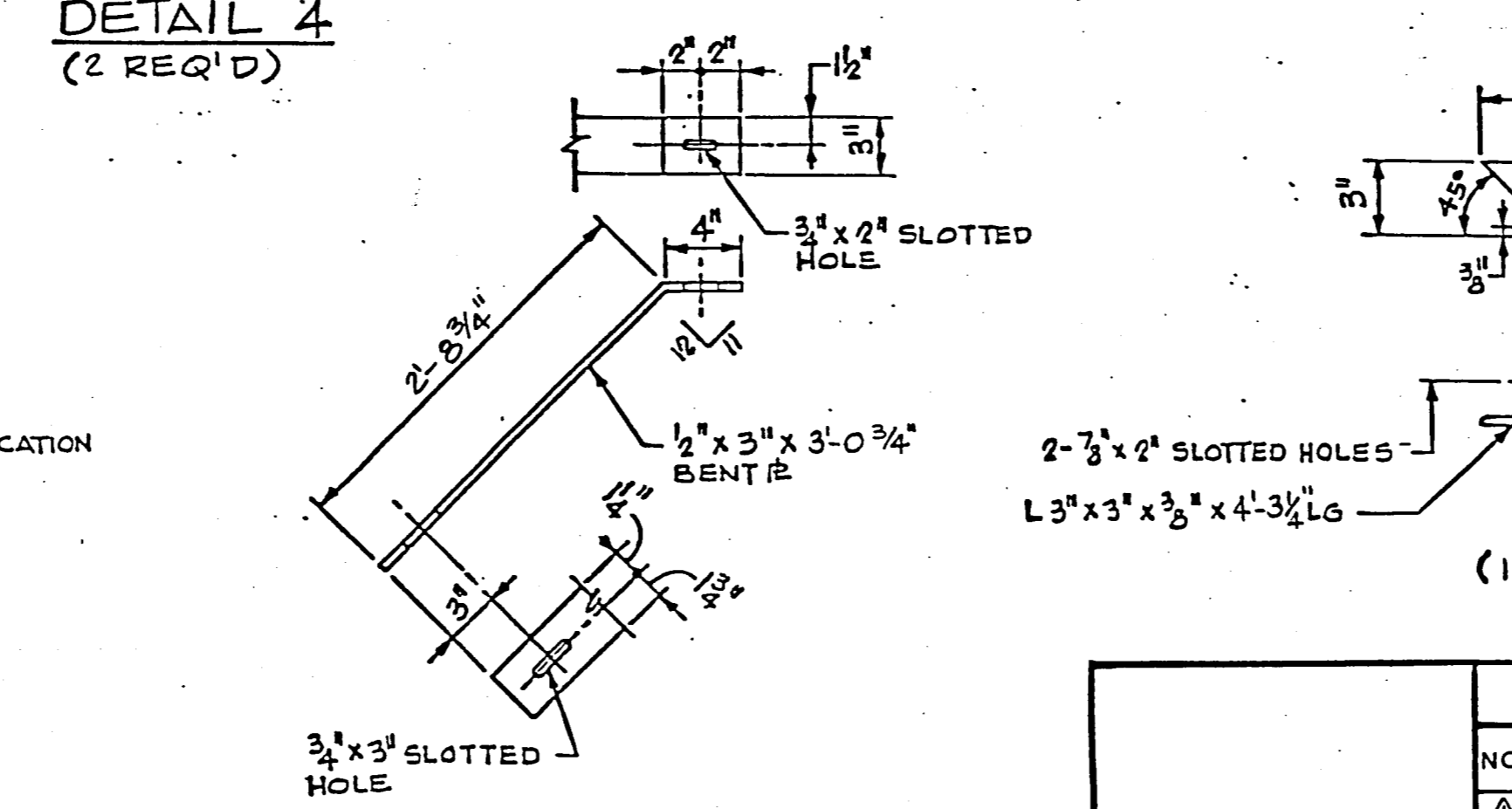
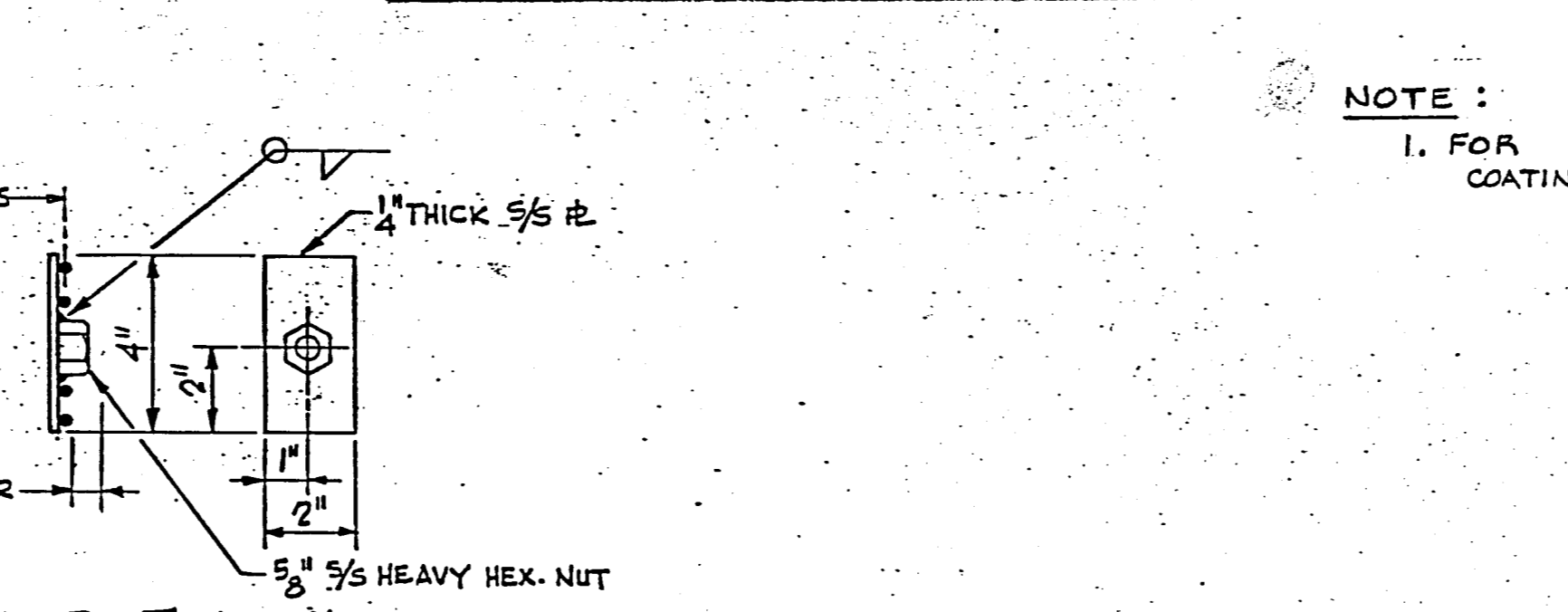
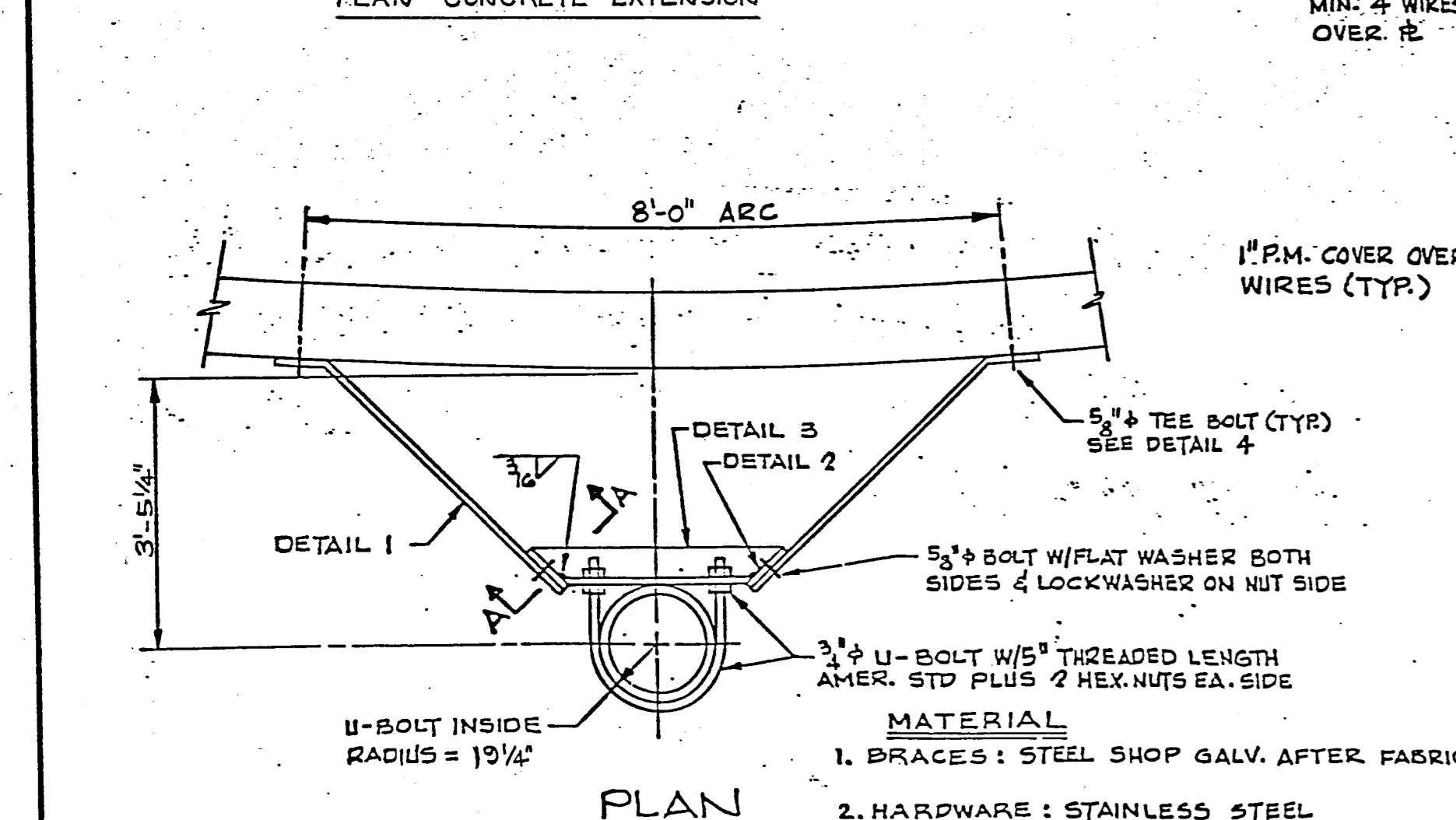
**OVERFLOW & WEIR BOX DETAILS**

DESIGNED: JD  
CHECKED: RAO  
DATE: 4-24-86

SCALE: N.T.S.  
CONTRACT NUMBER: 86 PE 004  
DRAWING NUMBER: 83-007-B

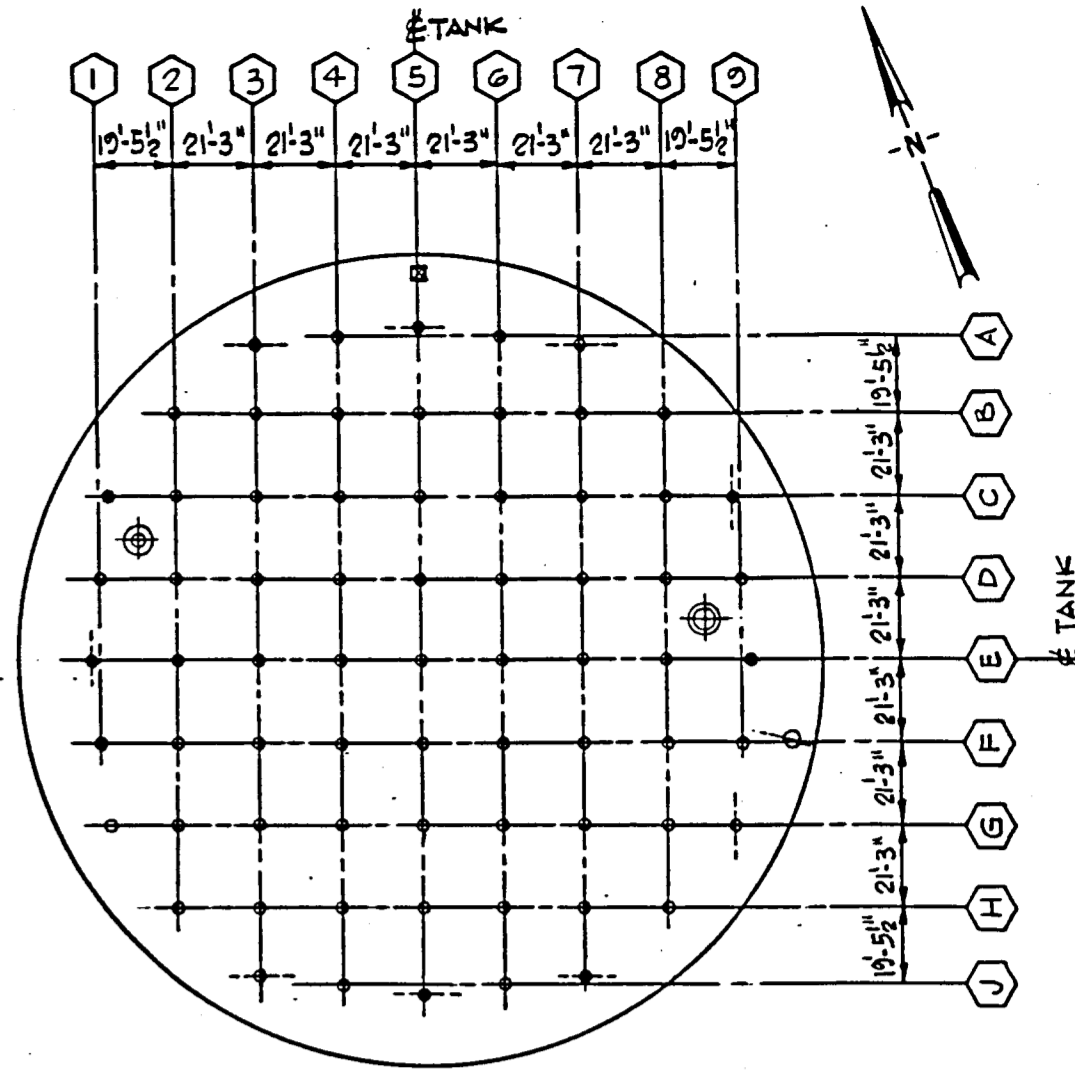
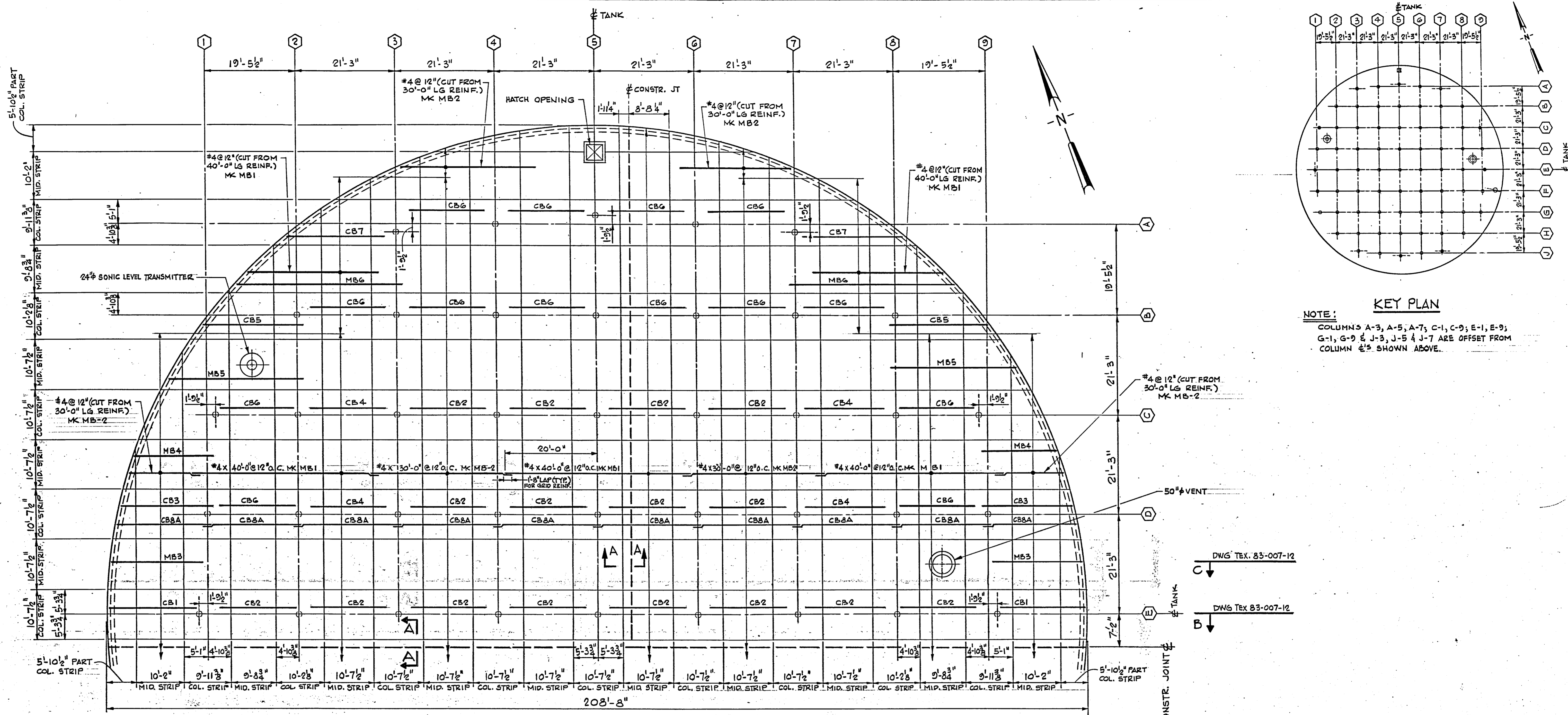


**NOTE:**  
 1. FOR D.I. PIPING NOTES INCLUDING EPOXY COATING SEE DWG. TEX. 83-007-5.



REVISIONS				PRELOAD		ONE 6.0 M.G. WATER STORAGE TANK ADDISON, TEXAS	
NO.	DATE	DESCRIPTION	BY	CHKD			
1	5/13/86	REV. INLET PIPE DET., SONIC LEVEL TRANS. DET., PLAN-CONC. EXT., DET'S 3, 5 & 6	E	RAO	839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530		
2	3/28/86	PER. ENGINEERS COMMENTS	JD	RAO	THIS DRAWING IS THE PROPERTY OF THE PRELOAD COMPANY, INC. AND/OR PRELOAD TECHNOLOGY, INC. AND IS SUBJECT TO RETURN ON DEMAND. IT CONTAINS FEATURES OF DESIGN WHICH ARE FULLY COVERED BY PATENTS AND PATENTS PENDING AND COPYRIGHTS. IT IS SUBMITTED FOR USE ONLY IN CONNECTION WITH PROPOSALS OR CONTRACTS OF PRELOAD OR ITS LICENSEES, UPON THE EXPRESS CONDITION THAT IT MAY NOT BE USED ON ANY OTHER DIFFERENT PROJECTS WITHOUT PRIOR APPROVAL OF PRELOAD.		
3	9/27/86	REVISED AS SHOWN	PV	RAO	DRAWN: JD SCALE: NONE CONTRACT NUMBER: 86 PE 004		
4	7/17/86	DETAIL 5 AS SHOWN	PV	RAO	DESIGNED: FD APPROVED: DATE: 4-24-86 DRAWING NUMBER: 83-007-6		
5	7/19/87	AS BUILT	E		CHECKED: RAO		





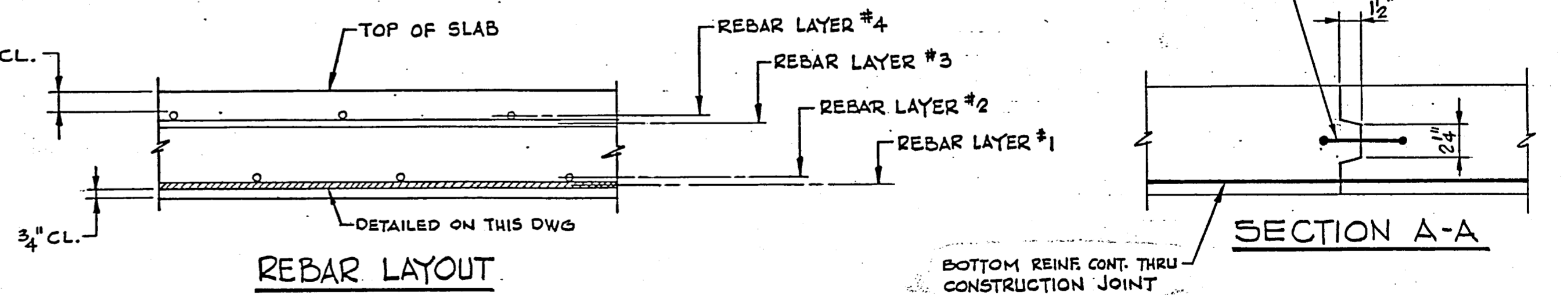
**NOTE:**  
 COLUMNS A-3, A-5, A-7, C-1, C-9, E-1, E-9;  
 G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM  
 COLUMN 5 AS SHOWN ABOVE.

ROOF SLAB GRID SCHEDULE (LAYER NO.1)											
BUNDLE MK	REINF. PER BUNDLE NO.	SIZE	LENGTH	NO. OF BUNDLES	TOTAL BUNDLES NO. BARS	ORDER	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 STRIPS E-D & E-F IN END BAYS	
MB4	3	#4	17'-9"	4	12	13	154			MID STRIPS C-D & E-F IN END BAYS	
* MB5	3	#4	30'-0"/22'-9"	4	12	13	229			MID STRIPS C-D & 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	1,603			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	1,283			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							—	31,640	—		

**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 WITH \* 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
Δ	5/13/86	REVISED SECTION A-A	E RAO
A	4/13/87	AS BUILT	E

**PRELOAD**  
 839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

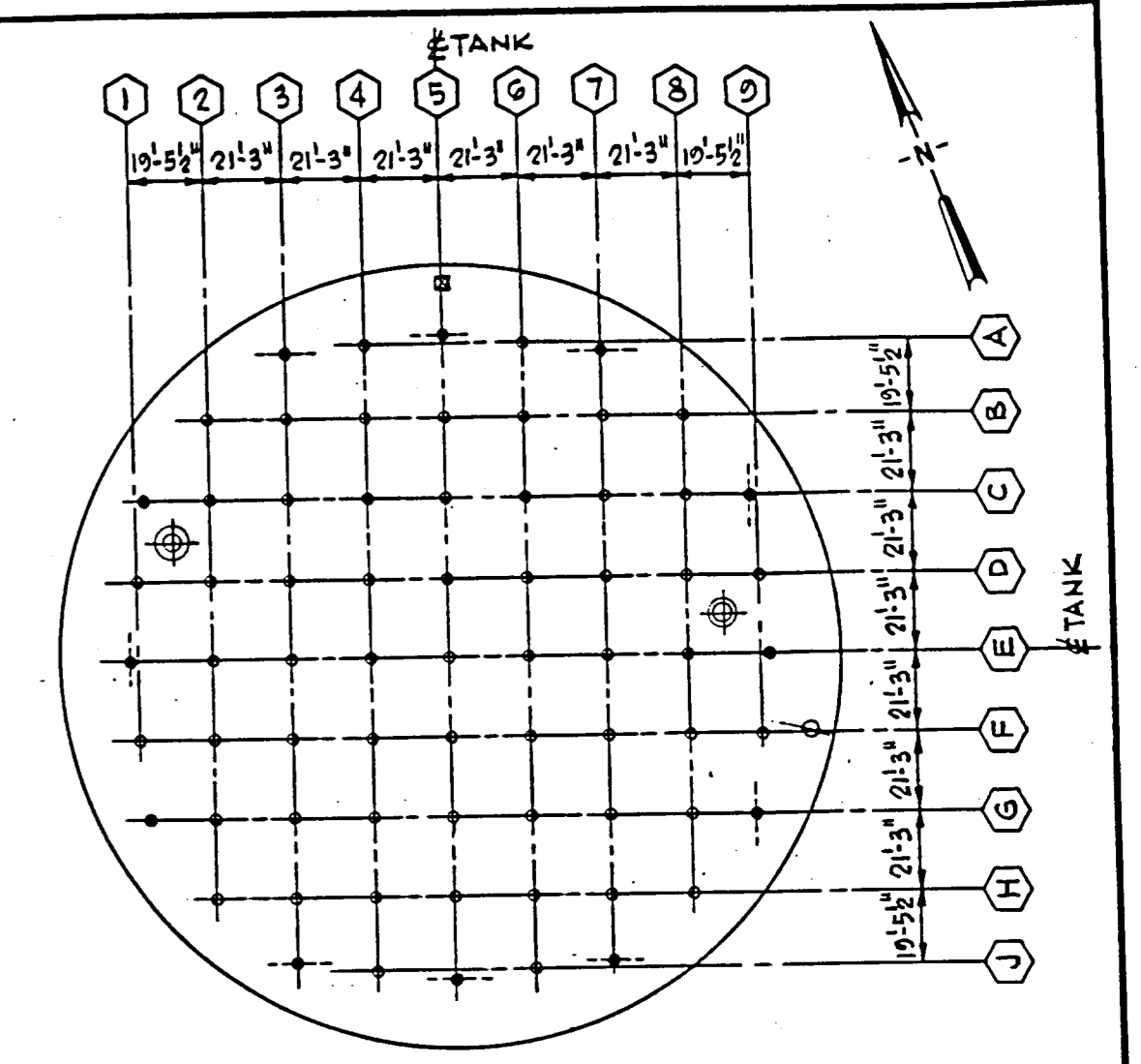
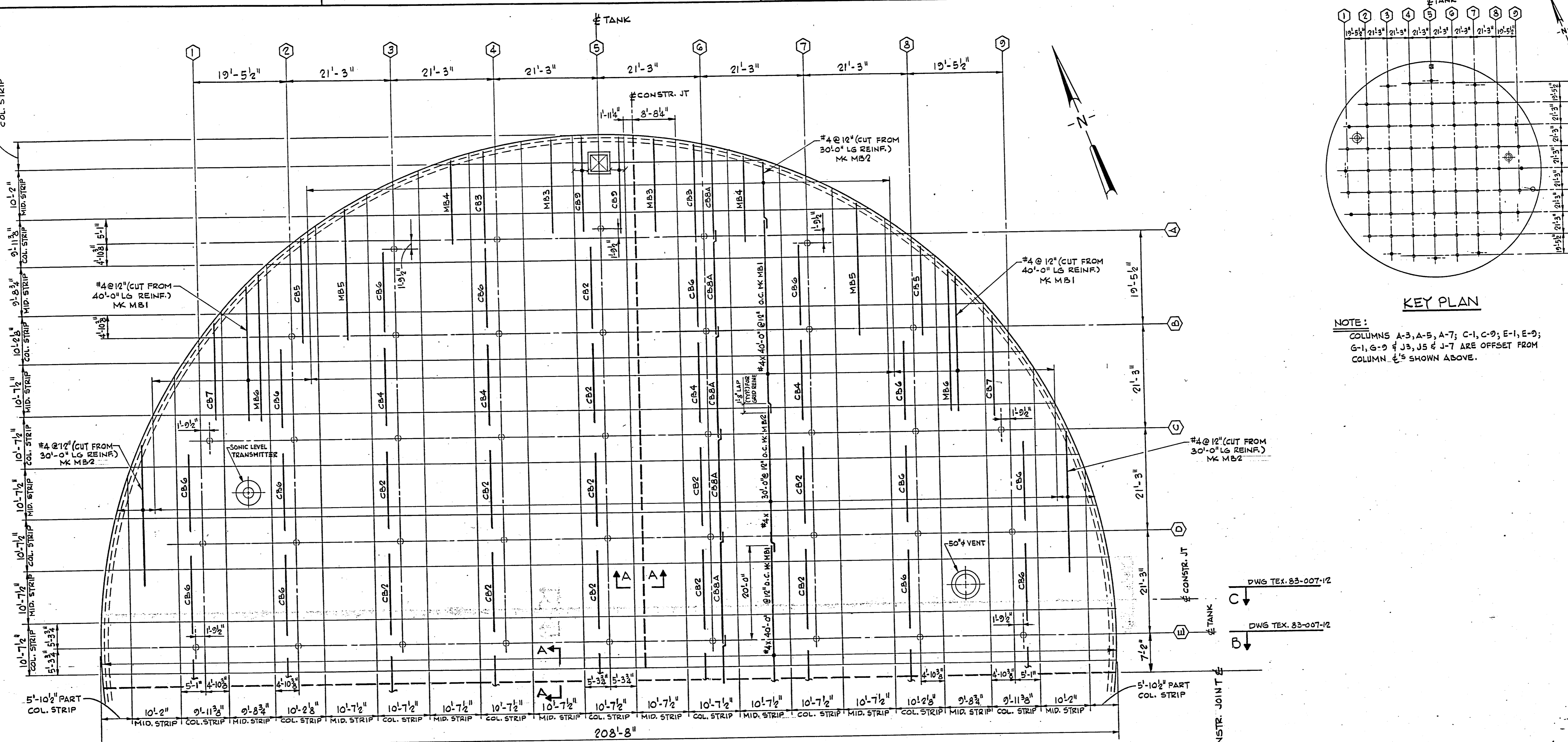
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**WORKING DRAWING**  
 ONE 6.0 M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO. 1

DESIGNED BY: RAO  
 CHECKED BY: FD  
 SCALE: AS SHOWN  
 APPROVED: [Signature]  
 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 6'S SHOWN ABOVE.

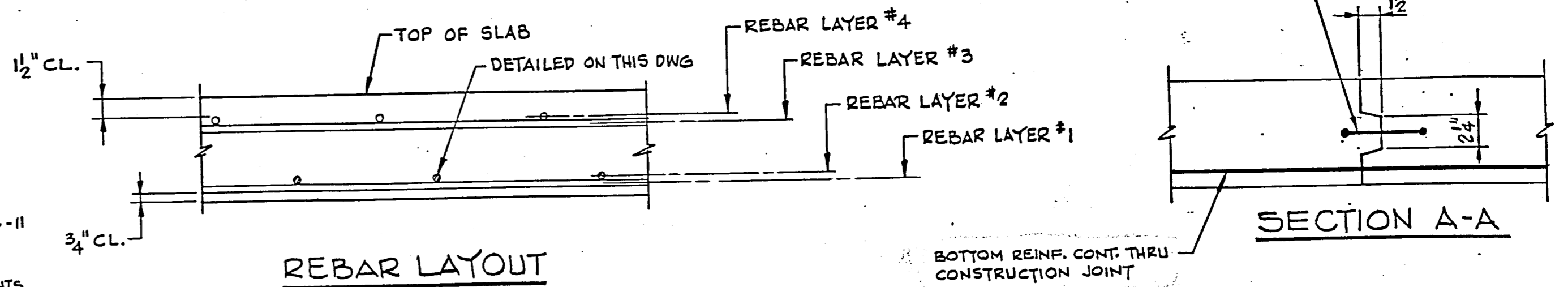
**ROOF SLAB GRID SCHEDULE (LAYER NO.2)**

BUNDLE MK	REINR PER BUNDLE NO.	SIZE	LENGTH	NO. OF TOTAL BUNDLES	NO. BARS	ORDER	BAR WEIGHT			LOCATION	SKETCH
							#5	#4	#3		
MB1	533	#4	40'-0"	1	533	540	14420			CONTINUOUS GRID	
MB2	525	#4	30'-0"	1	525	535	10721			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'-9"	4	12	13	229			MID. STRIP 2-3 & 7-8 END BAYS	
MB6	3	#4	36'-0"/26'-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	1003			INTERIOR BAYS	
CB3	9	#4	19'-9"	4	36	38	502			LINE 4 & 6 END BAYS	
CB4	7	#4	16'-0"	3	56	60	641			LINE 5, 7, 8, 9 & 10 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 1 & 9 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	
TOTAL WEIGHT								31680			

**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	3/12/86	REVISED SECTION A-A	RE	RAO
2	4/3/87	AS BUILT	RE	

**PRELOAD**

839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

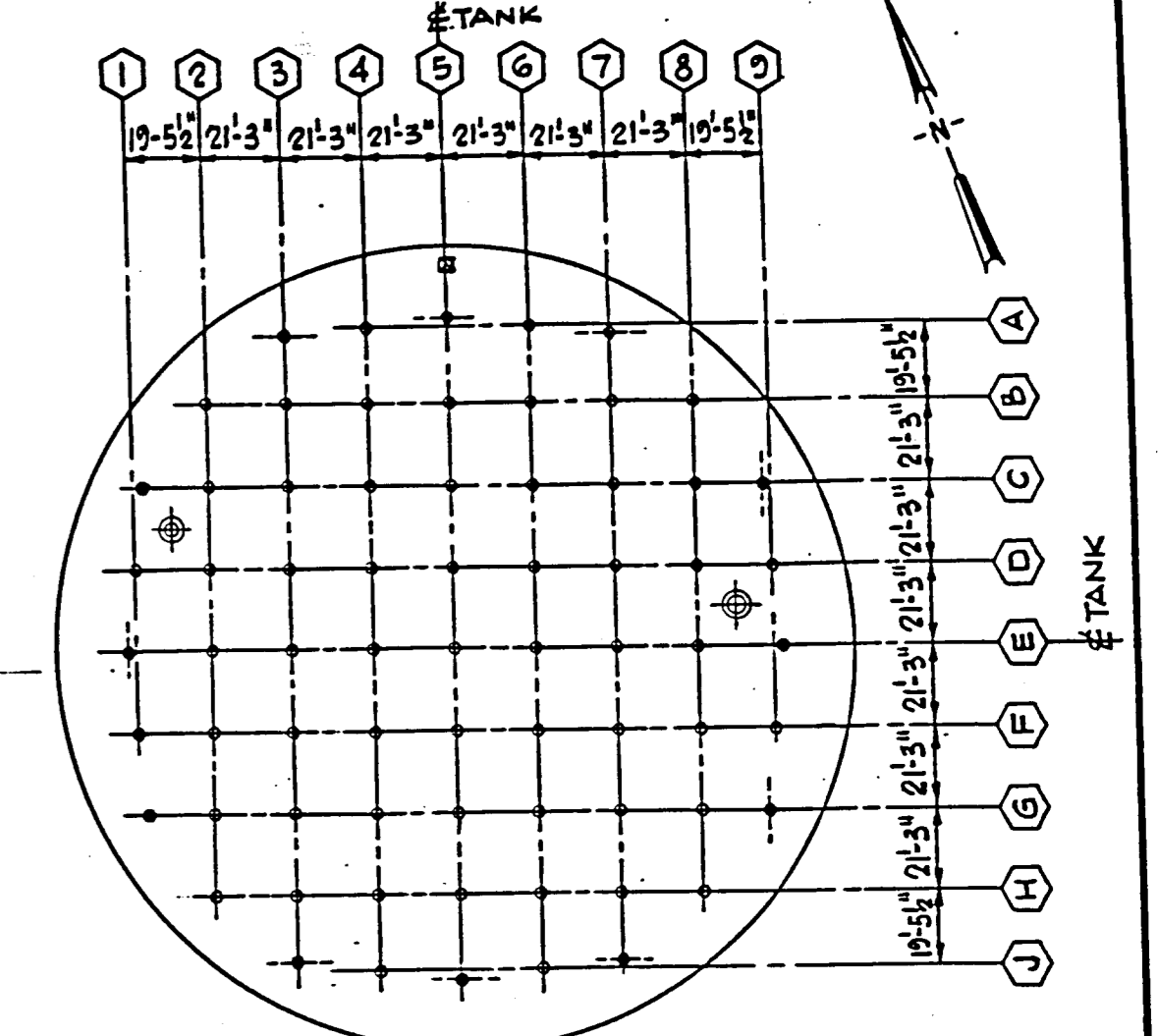
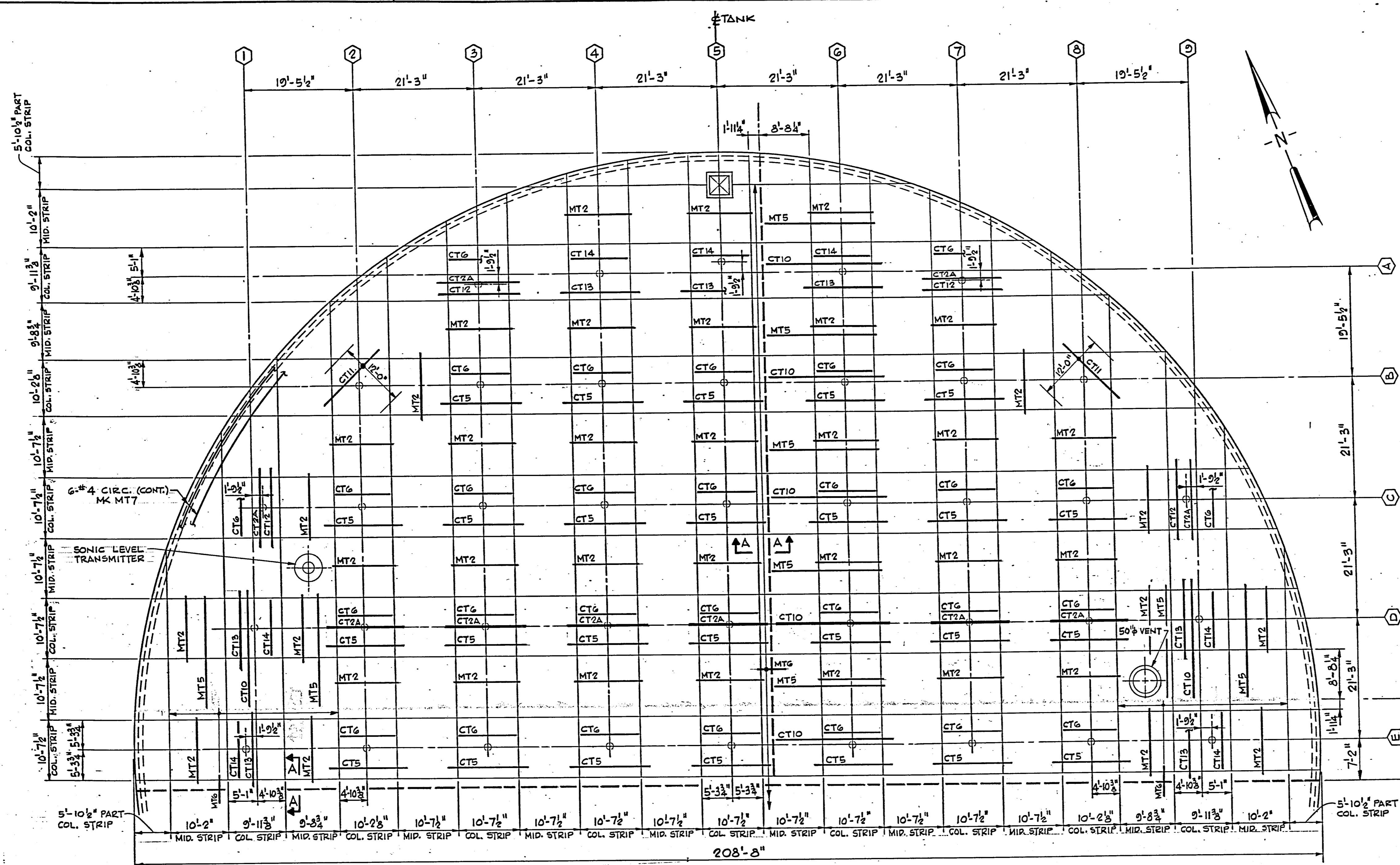
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**WORKING DRAWING**

ONE 6.0 M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO. 2

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

CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-9



**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 E'S SHOWN ABOVE.

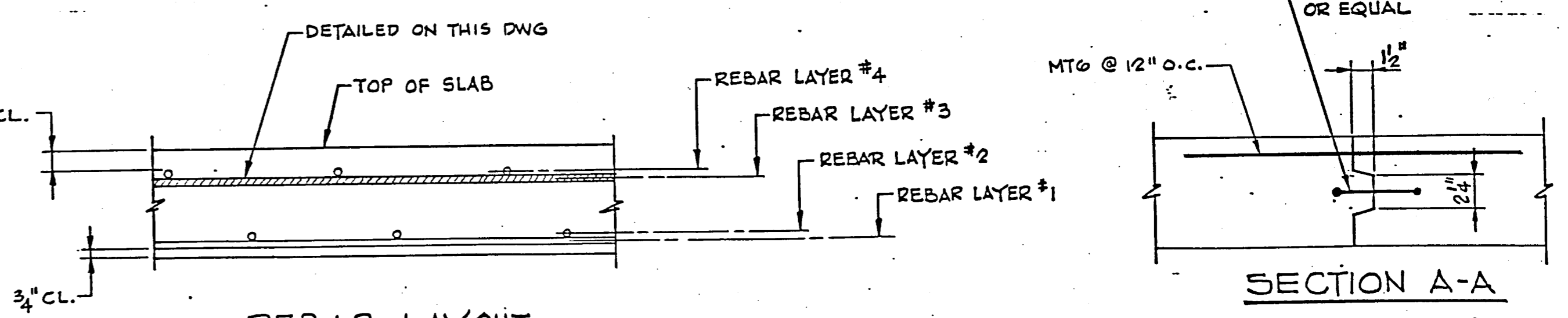
**ROOF SLAB GRID SCHEDULE (LAYER NO. 3)**

BUNDLE MK	REINFR PER BUNDLE NO.	NO. OF TOTAL BUNDLES	NO. OF BARS	ORDER	BAR WEIGHT			LOCATION	SKETCH
					#5	#4	#3		
CT2A	3	#5	14'-0"	14	45	657		LINE D & END BAYS LINE I, B, A & J	
CT5	10	#5	14'-0"	45	450	6717		INTERIOR BAYS	
CT6	9	#5	10'-4"	53	477	5279		INTERIOR BAYS & END BAYS OF I, B, A & J	
CT10	3	#5	20'-11"	11	33	764		LINE G, I D & 9D	
CT11	20	#5	14'-0"	4	80	84	1227	END BAY OF D & H @ 45°	
CT12	9	#5	14'-0"	8	72	76	1110	END BAYS OF LINE I, B, A & J	
CT13	8	#5	14'-0"	12	96	100	1460	INTERIOR BAYS	
CT14	8	#5	10'-4"	12	96	100	1078	LINE A, J, I & 9 INTERIOR BAYS	
MT2	11	#4	11'-1"	78	858	875	6476	INTERIOR BAYS	
MT5	3	#4	19'-6"	14	42	44	573	LINE G & 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.	
<b>TOTAL WEIGHT</b>					<b>18292</b>	<b>10576</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 #3 (SEE REBAR LAYOUT, THIS DWG)
  6. FOR OTHER LAYERS SEE DWGS TEX. 83-007-8, -9 & 11
  7. REINF. MARKED WITH SUFFIX "A" TO BE PLACED NEAR THE COLUMN.
  8. MK CT1, CT3, CT4, CT7, CT8 & CT9 NOT USED  
MK MT1, MT3 & MT4 NOT USED

- 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 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
A	4/13/87	AS BUILT	E	

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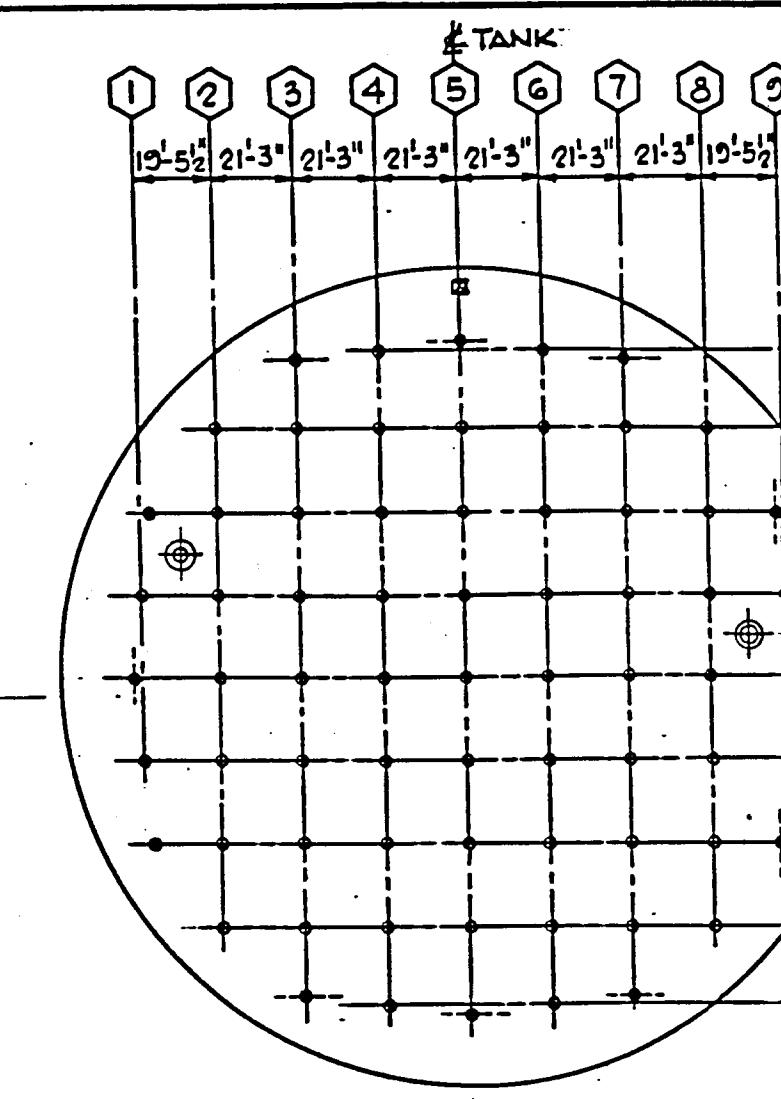
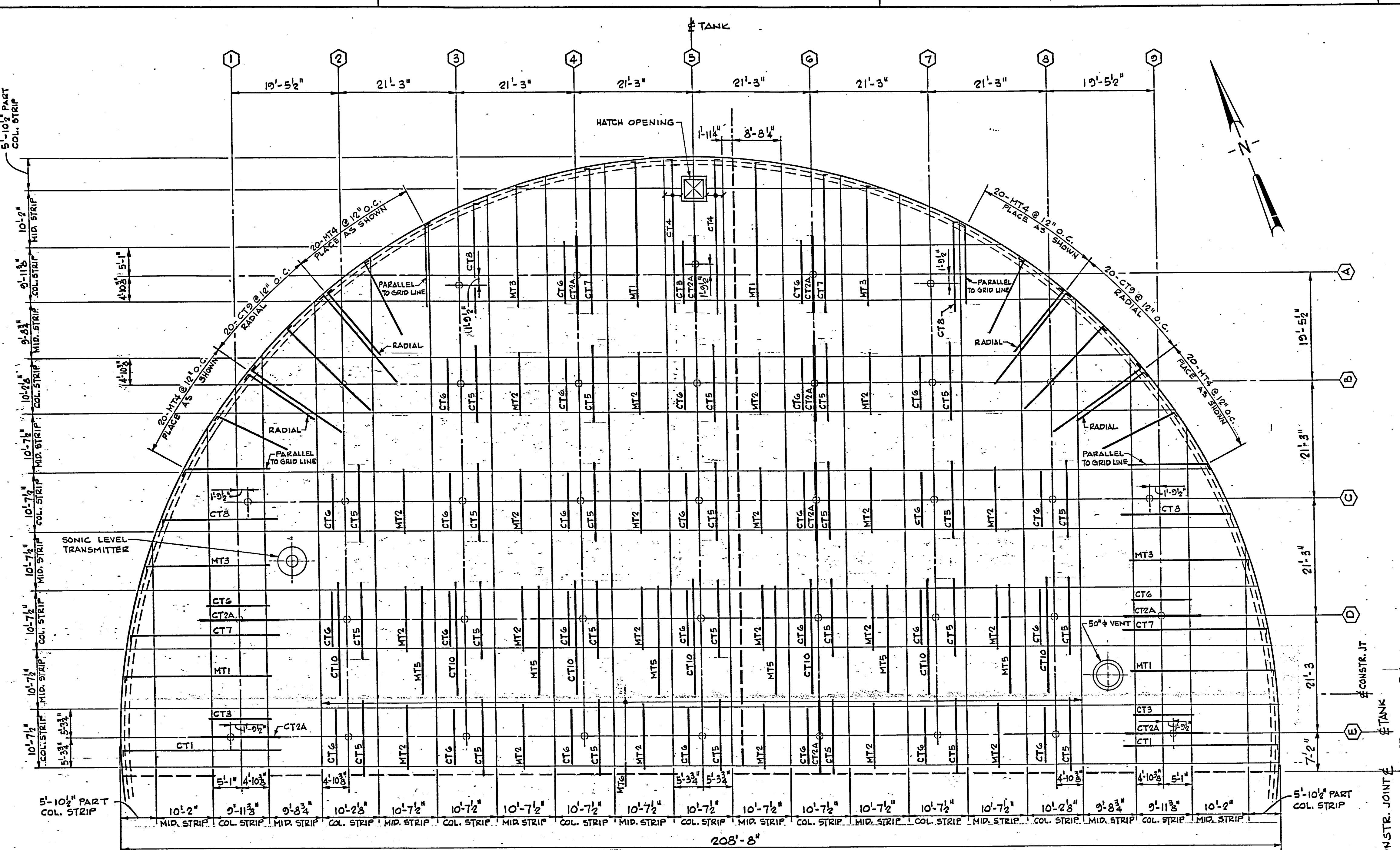
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**WORKING DRAWING**

ONE G.O.M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO. 3

DESIGNED BY: <b>RAO</b>	SCALE: _____	CONTRACT NUMBER: <b>86 PE 004</b>
CHECKED BY: <b>FD</b>	DATE: <b>4/24/86</b>	DRAWING NUMBER: <b>83-007-10</b>



**KEY PLAN**

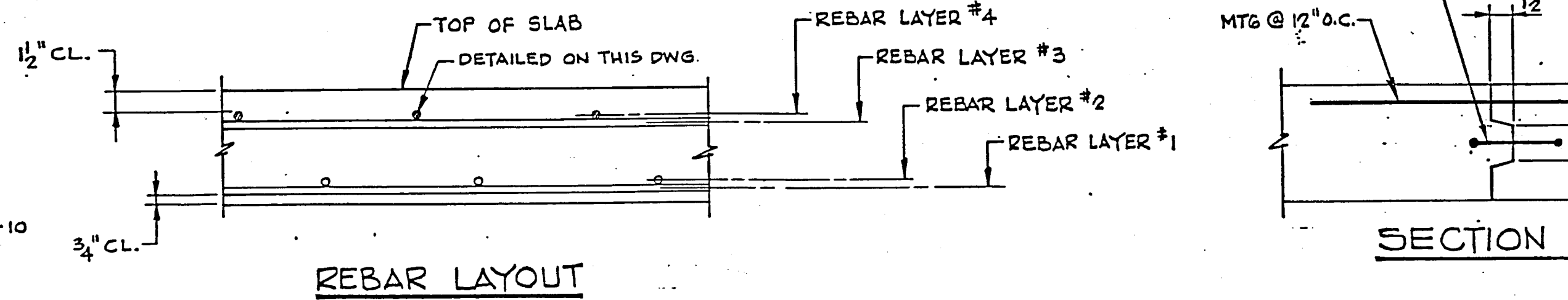
**NOTE:**  
 COLUMNS A-3, A-5, A-7, C-1, C-9; E-1, G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM COLUMN E-1 AS SHOWN ABOVE.

ROOF SLAB GRID SCHEDULE (LAYER NO. 4)										
NO.	REINFR PER BUNDLE	NO. OF TOTAL BUNDLES	NO. BARS	ORDER	BAR WEIGHT			LOCATION	SKETCH	
					#5	#4	#3			
1	11 #5	26'-6"	3	33	35	967		LINE E & S END BAYS	4" 26'-2"	
2A	3 #5	14'-0"	18	54	57	832		LINE 4, 5, E, D & F END BAYS PLUS LINE G		
3	10 #5	10'-4"	4	40	42	453		LINE E & S END BAYS		
4	6 #5	26'-6"	2	12	13	359		EACH SIDE OF HATCH	4" 26'-2"	
5	10 #5	14'-0"	45	450	460	6717		INTERIOR BAYS		
6	9 #5	10'-4"	53	477	490	5281		INTERIOR BAYS PLUS LINE 4, G, D & F END BAYS		
7	9 #5	27'-0"	8	72	75	2112		LINE 4, G, D & F END BAYS	4" 26'-2"	
8	12 #5	23'-2"	8	96	100	2417		LINE END BAYS	4" 22'-10"	
9	20 #5	23'-4"	4	80	84	2044		ALONG WALL	4" 23'-0"	
10	3 #5	20'-11"	7	21	22	480		LINE D ONLY		
					TOTAL WEIGHT		21662	8580		

**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 & 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 #4 (SEE REBAR LAYOUT, THIS DWG)
  - FOR OTHER LAYERS SEE DWGS TEX. 83-007-8, -9 & -10
  - REINF. MARKED WITH SUFFIX "A" TO BE PLACED NEAR THE COLUMN.



**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.
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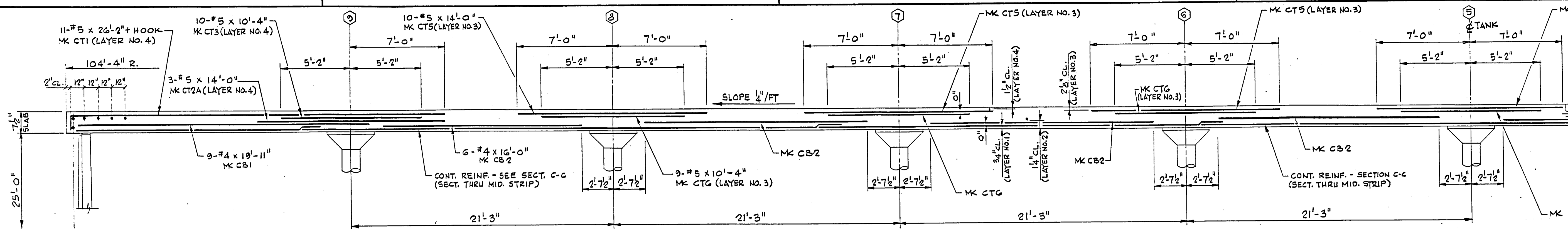
REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
A	4/13/87	AS BUILT	E	



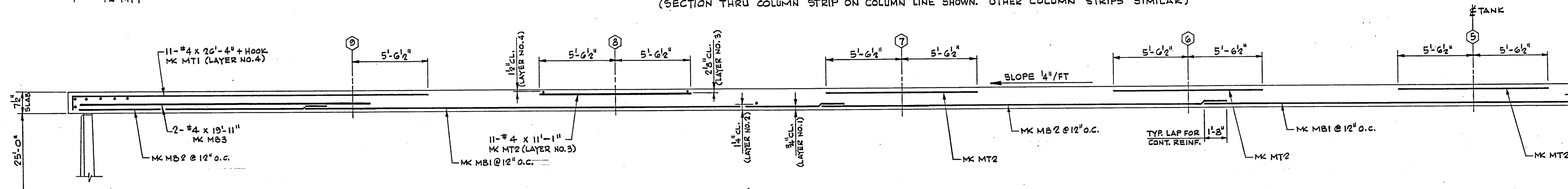
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WORKING	
ONE G.O.M.G. GROUND	
ADDISON, TX	
ROOF SLAB REIN	
LAYER NO. 4	
DRAWN: E	SCALE:
DESIGNED: RAO	APPROVED:
CHECKED: FD	DATE: 4/24/87

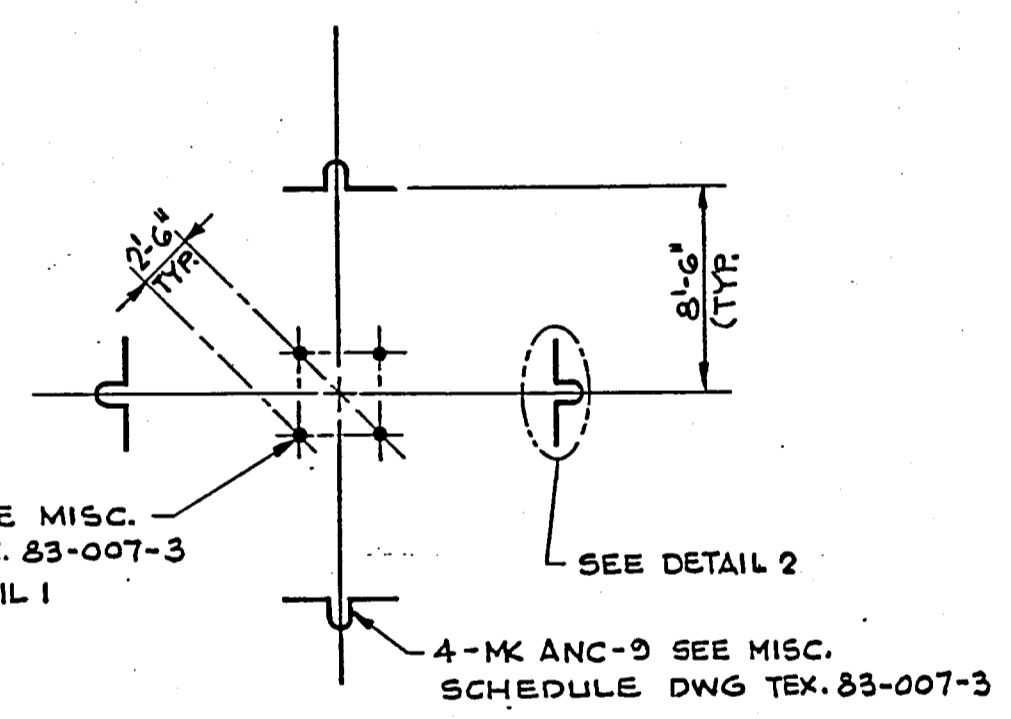
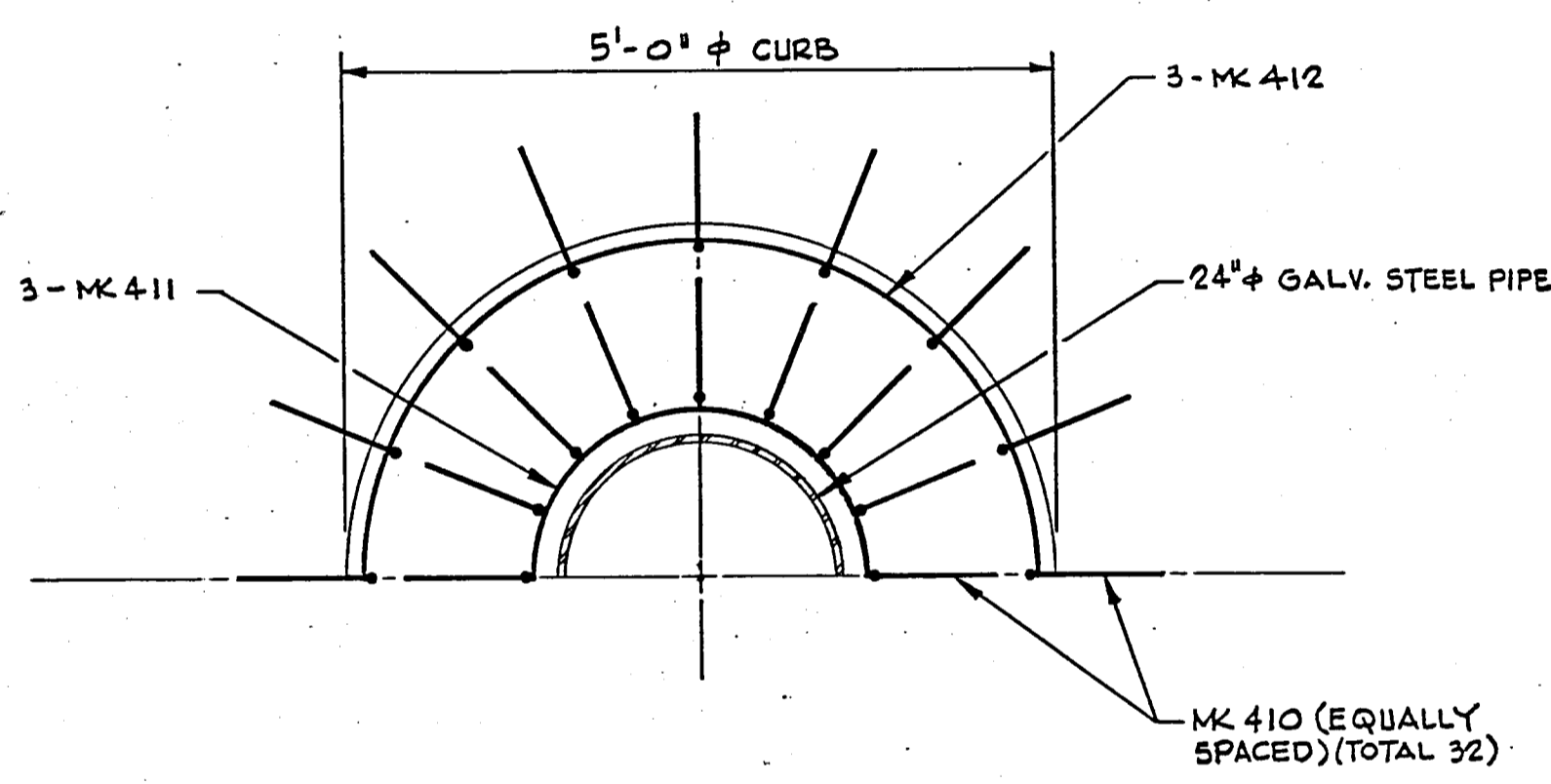


**SECTION B-B (SECTION THRU COLUMN STRIP)**  
 (SECTION THRU COLUMN STRIP ON COLUMN LINE SHOWN. OTHER COLUMN STRIPS SIMILAR)



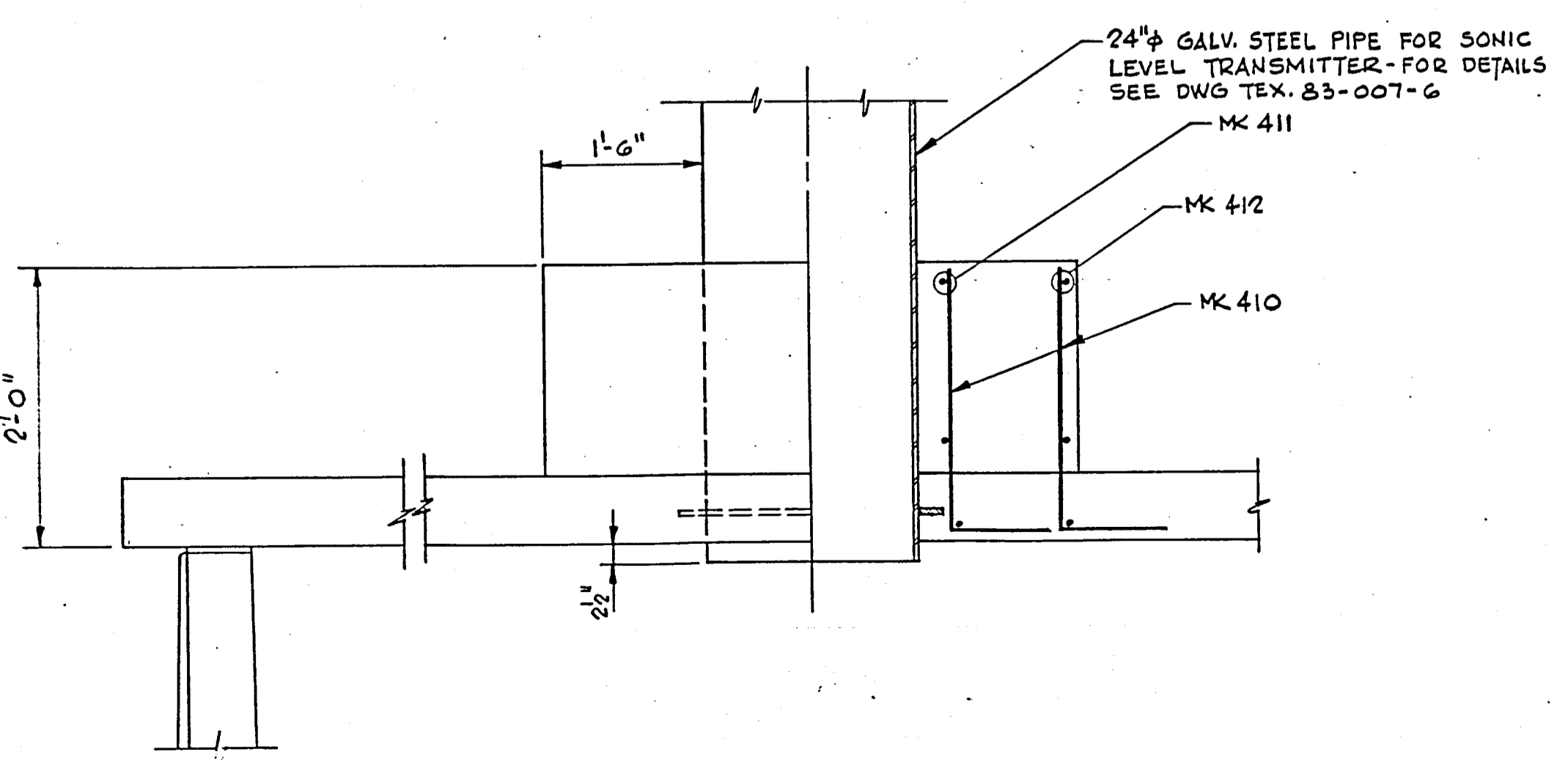
**SECTION C-C (SECTION THRU MIDDLE STRIP)**  
 SECTION THRU MIDDLE STRIP ABOVE COLUMN CENTERLINE SHOWN. OTHER MIDDLE STRIPS SIMILAR.

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

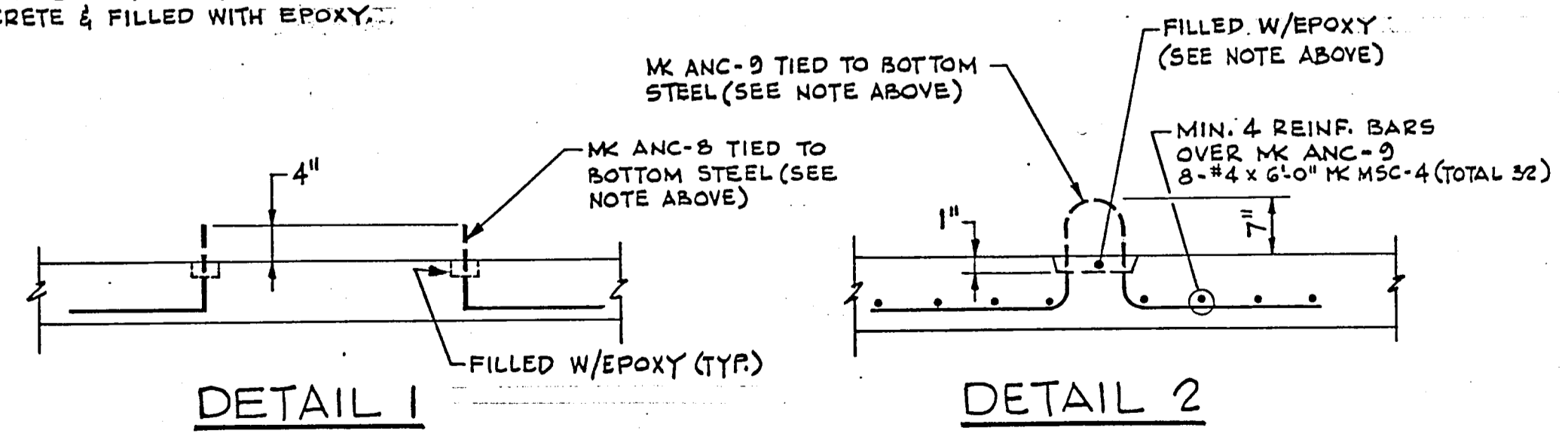


**WIREWINDER CENTER PIN ANCHORAGE ARRANGEMENT**

**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 EPOXY.



**SONIC LEVEL TRANSMITTER DETAIL**



**DETAIL 1**

**DETAIL 2**

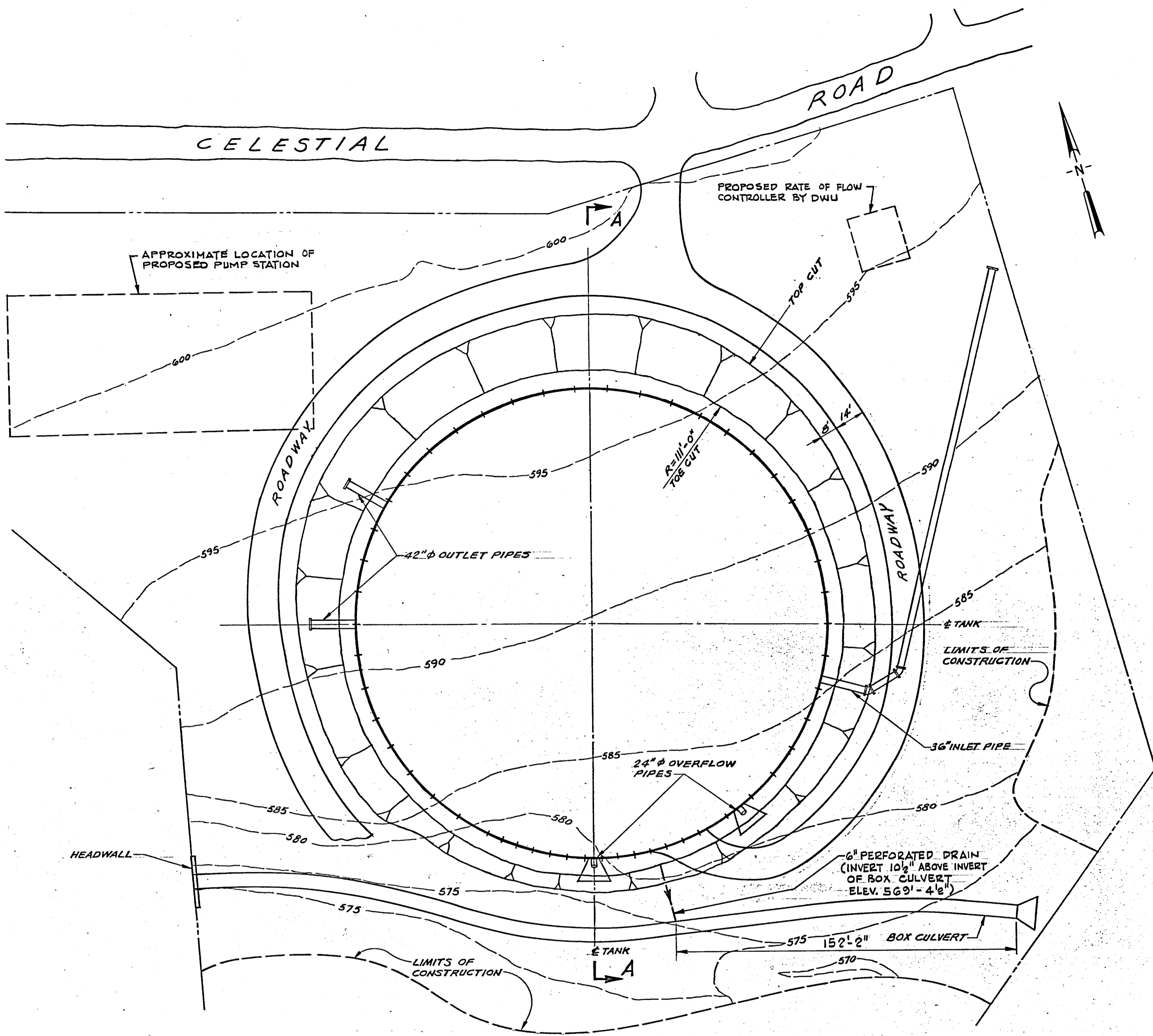
REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
A	4/13/87	AS BUILT	E	



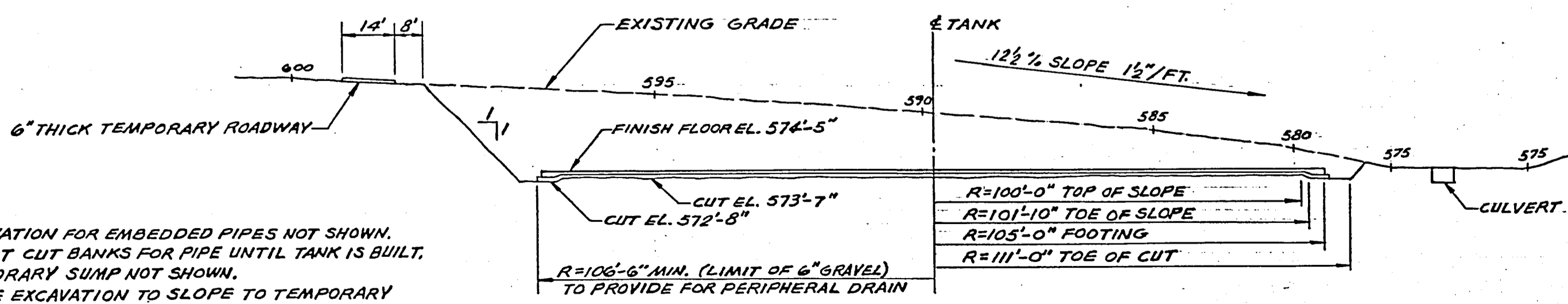
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WORKING I  
 ONE G.O.M.G. GROUND S  
 ADDISON, TE  
 ROOF SECT  
 DRAWN: E SCALE:  
 DESIGNED: RAO APPROVED:  
 CHECKED: PD DATE: 4/24/86





**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. "CS-28".

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
1	7/13/86	ADDED PROPOSED PUMP STATION & FLOW CONTROLLER	E	RAO
2	4/12/87	AS BUILT	E	

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**WORKING D**

**ONE 6.0 M.G. WATE**  
**ADDISON,**

**EXCAVATION**

DRAWN: PV	SCALE: AS SHOWN
DESIGNED: BRB	APPROVED:
CHECKED: RAO	DATE: 4-24-

# REBAR SCHEDULE

# BAR BENDING SCHEDULE

## FLOOR & FOOTING

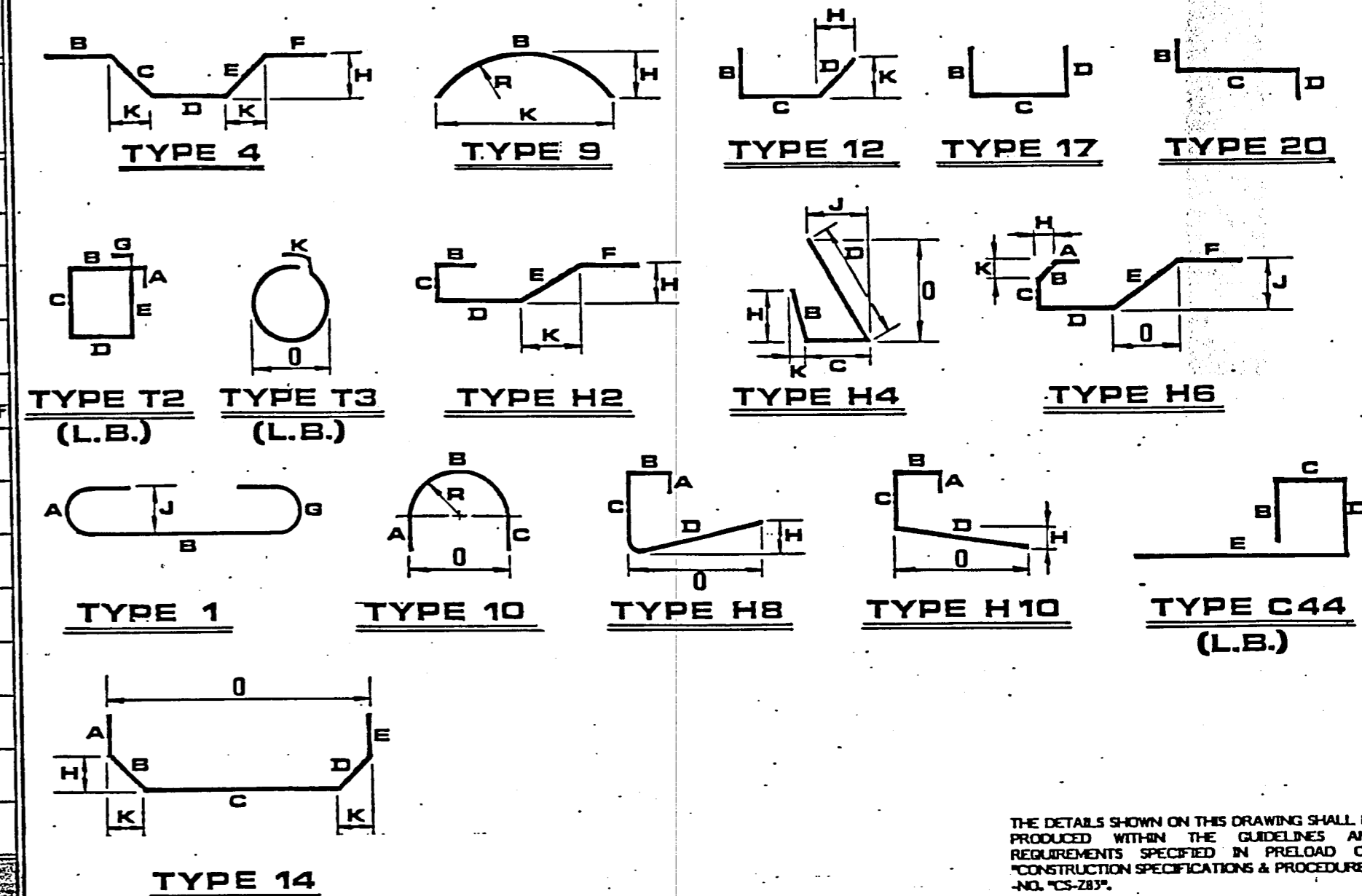
MARK	QUANTITIES		SIZE	LENGTH	WEIGHT			TYPE	LOCATION
	DESIGN	ORDER			No. 5	No. 4	No. 3		
FTG-1	183	189	#5	30'-0"	5914				FOOTING
FTG-2	62	71	#5	30'-0"	2222				do
FLR-1	789	802	#4	30'-0"		16072			CENTER FLOOR SECTION
FLR-2	24	26	#4	30'-0"		521			do
FLR-3	771	779	#4	30'-0"		15611			RADIAL OUTER FLOOR
FLR-4	771	779	#4	18'-4"		9538			do
FLR-5	937	947	#4	30'-0"		18978			CIRCUMFERENTIAL OUTER FLOOR
FLR-6	10	10	#5	4'-0"	42				INLET PIPE SUPPORT
EXTRA	6		#5	30'-0"	188				
EXTRA	30		#4	30'-0"		601			
<b>TOTAL</b>					8366	61321			
400	330	343	#4	9'-9"		2234		H2	FOOTING
401	329	329	#4	8'-9"		1923		H2	do
402	214	218	#4	3'-0"		437		20	do
415	4	4	#4	4'-0"		11		17	INLET PIPE SUPPORT
<b>TOTAL</b>						4605			

## WALL

MARK	QUANTITIES		SIZE	LENGTH	WEIGHT			TYPE	LOCATION
	DESIGN	ORDER			No. 5	No. 4	No. 3		
WAL-1	832	848	#3	6'-0"			1913		AT LIFTING INSERTS
WAL-3	130	133	#4	24'-5"			2170		SUPPORT REINFORCEMENT
WAL-4	568	582	#4	13'-4"			5184		4 SHEETER PANEL AT LIFTING INS.
WAL-6	851	870	#4	24'-6"			14238		I.F. VERTICAL REINFORCEMENT
WAL-7	810	834	#4	14'-0"			7800		I.F. VERTICAL REINFORCEMENT
WAL-8	114	122	#4	6'-8"			544		2 SHEETER PANEL I.F. @ LIFTING INS.
WAL-9	78	84	#3	6'-8"			211		2 SHEETER PANEL O.F. @ LIFTING INS.
WAL-10	182	182	#5	4'-4"	823				2 SHEETER PANEL BRACING REINF.
WAL-11	4	4	#4	16'-0"		43			OVERFLOW PANELS
WAL-12	546	560	#5	7'-9"	4527				4 SHEETER PANEL BRACING REINF.
WAL-13	12	12	#5	14'-0"	175				TEMPORARY MANHOLE PANEL
WAL-14	5	5	#4	20'-5"		68			do
WAL-15	10	10	#4	2'-5"		16			do
WAL-16	12	12	#5	24'-6"	307				do
WAL-17	4	4	#4	5'-10"		16			OVERFLOW PANELS
EXTRA	2		#5	30'-0"	63				
EXTRA	8		#4	30'-0"		160			
EXTRA	2		#3	30'-0"			23		
<b>TOTAL</b>					5895	30239	2147		

## MISCELLANEOUS (ROOF)

MARK	QUANTITIES		SIZE	LENGTH	WEIGHT			TYPE	LOCATION
	DESIGN	ORDER			No. 5	No. 4	No. 3		
MSC-1	32	33	#4	6'-0"		132			ROOF AT OVERFLOWS
MSC-2	4	4	#4	4'-10"		13			HATCH
MSC-3	24	26	#5	8'-0"		217			do
MSC-4	32	34	#4	6'-0"		136			AT MK ANC-9 IN ROOF SLAB
MSC-5	4	4	#4	4'-6"		12			INLET PIPE SUPPORT ON ROOF
<b>TOTAL</b>						217	293		
405	20	21	#4	3'-6"		49		1	VENT
408	20	21	#4	5'-0"		70			do
410	32	33	#4	2'-4"		51		17	SONIC TRANSMITTER
413	4	5	#4	7'-8"		26		17	HATCH
414	12	13	#4	4'-2"		36		17	do
416	12	12	#4	2'-6"		20		1	ROOF AT INLET PIPE
<b>TOTAL</b>						252			
404	2	2	#4	17'-6"		23		T3	VENT
406	1	1	#4	25'-1"		17		T3	do
407	2	2	#4	16'-6"		22		10	do
409	2	2	#4	15'-8"		21		T3	do
411	3	3	#4	8'-11"		18		T3	ROOF AT SONIC TRANSMITTER
412	3	3	#4	15'-11"		32		T3	do
417	1	1	#4	13'-10"		9		T3	ROOF AT INLET PIPE
418	1	1	#4	15'-5"		10		T3	do
<b>TOTAL</b>						152			



THE DETAILS SHOWN ON THIS DRAWING SHALL BE PRODUCED WITHIN THE GUIDELINES AND REQUIREMENTS SPECIFIED IN PRELOAD CO. CONSTRUCTION SPECIFICATIONS & PROCEDURES - VOL. "CS-28".

MARK	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
400	#4	9'-9"	H2		2'-1"	*9/2"	2'-7/4"	1'-9/2"	2'-5/2"		10"		1'-7"		
401	#4	8'-9"	H2		2'-1"	*9/2"	2'-7/4"	1'-9/2"	1'-5/2"		10"		1'-7"		
402	#4	3'-0"	20		1'-1/2"	*8/2"	1'-1/2"								
403	#4	4'-8"	T3										1'-3/4"		1'-1"
404	#4	17'-6"	T3										1'-3/4"		5'-2"
405	#4	3'-6"	1	6"	3'-0"							4"			
406	#4	25'-1"	T3										1'-3		7'-7"
407	#4	16'-6"	10	7/4"	15'-3/4"	7/2"							4'-10/2"		9'-9"
408	#4	5'-0"	C44		7"	*5"	8"	3'-4"							
409	#4	15'-8"	T3										1'-3/2"		4'-7"
410	#4	2'-4"	17			1'-8"	8"								
411	#4	8'-11"	T3										1'-3/4"		2'-5"
412	#4	15'-11"	T3										1'-3"		4'-8"
413	#4	7'-8"	17		1'-4"	5'-0"	1'-4"								
414	#4	4'-2"	17			3'-0"	1'-2"								
415	#4	4'-0"	17			3'-4"	8"								
416	#4	2'-6"	1	6"	2'-0"							4"			
417	#4	13'-10"	T3										1'-3/4"		4'-0"
418	#4	15'-5"	T3										1'-3/2"		4'-6"
500	#5	3'-8"	17			3'-2"	6"								
501	#5	8'-1"	17			5'-5"	2'-8"								

BENDING NOTE: HOLD BENDING TOLERANCE TO +0", -1/2" FOR DIMENSIONS SHOWN THUS (\*).

- NOTES:**
- REBARs ARE TO BE NEW BILLET STEEL, ASTM A-615, GR. 60.
  - MINIMUM LAP TO BE EQUAL TO 30 BAR DIAMETER UNLESS OTHERWISE NOTED.
  - WELDED WIRE FABRIC TO BE ASTM A-185-LAPS 1/4 SQS.
  - DESIGN QUANTITY IS THE NO. OF BARS PLACED IN THE STRUCTURE. ORDER QUANTITY REPRESENTS NO. OF BARS TO BE PURCHASED.
  - REINFORCING FOR ROOF SLAB NOT INCLUDED. SEE DWGS. TEX. 83-007-8, 9, 10 & 11.

## COLUMN AND COLUMN FOOTING

MARK	QUANTITIES		SIZE	LENGTH	WEIGHT			TYPE	LOCATION
	DESIGN	ORDER			No. 5	No. 4	No. 3		
COL-1	698	700	#4	3'-8"		1716			COLUMN FOOTING
COL-2	552	560	#5	22'-5"	13095				COLUMN VERTICALS
<b>TOTAL</b>					13095	1716			
500	562	560	#5	3'-8"	2144			17	DOWELS FROM FOOTING
501	552	560	#5	8'-1"	4719			17	DOWELS INTO ROOF SLAB
<b>TOTAL</b>					6863				
403	1725	1750	#4	4'-8"		5459		T3	COLUMN TIES
<b>TOTAL</b>						5459			

## CURB

MARK	QUANTITIES		SIZE	LENGTH	WEIGHT			TYPE	LOCATION
	DESIGN	ORDER			No. 5	No. 4	No. 3		
ENC-1	90	93	#3	30'-0"			1049		WATERSTOP ENCASEMENT
<b>TOTAL</b>							1049		

## TOTAL BAR WEIGHT

LOCATION	No.	No. 5	No. 4	No. 3	TOTAL (TYPE OF BARS)			TOTAL
					STRAIGHT	H. BEND.	L. BEND.	
FLR & FTG		8366	61321		69687			
WALL			4605			4605		
WAL		5895	30239	2147	38281			
ENC				1049			1049	
COL		13095	1716		14811			
WAL		6863			6863			
COL			5459			5459	27133	
MISC.		217	293		510			
MISC.			252			252	914	
MISC.			152			152	914	
<b>TOTAL</b>		34436	104037	3196	124338	11720	5611	141669

## LAP LENGTH

SIZE	LENGTH		SIZE	WEIGHT
	30φ	40φ		
3	1'-0"	1'-3"	3	.376
4	1'-3"	1'-8"	4	.668
5	1'-7"	2'-1"	5	1.043
6	1'-11"	2'-6"	6	1.502
7	2'-3"	2'-11"	7	2.044
8	2'-6"	3'-4"	8	2.670

## UNIT WEIGHT OF REBARS

SIZE	WEIGHT
3	.376
4	.668
5	1.043
6	1.502
7	2.044
8	2.670

REVISIONS			
NO.	DATE	DESCRIPTION	BY CKD
1	9/13/86	REVISED AS SHOWN	E RAO
2	9/13/86	AS BUILT	E RAO



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

REBAR SCHEDULE		
DRAWN	SCALE	CONTRACT
PV	N. T. S.	86 PE 004
DESIGNED	MTD	DRAWING
FD		TEX
CHECKED	DATE	NUMBER
RAO	4-24-86	85-007-15

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