

CONSTRUCTION PLANS FOR

# 6 MG CELESTIAL ROAD GROUND STORAGE TANK

**SHEET INDEX**

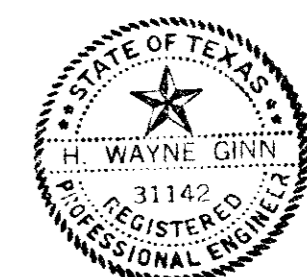
SHEET NO.	TITLE
1	SITE PLAN
2	PLAN AND SECTIONS
3	MISCELLANEOUS TANK DETAILS
4	MISCELLANEOUS TANK DETAILS
5	MISCELLANEOUS TANK DETAILS
6	BOX CULVERT PROFILE
7	TYPE "A" HEADWALL DETAILS
8	TYPE "B" HEADWALL DETAILS

**MAYOR:**  
JERRY REDDING

**CITY MANAGER:**  
RON WHITEHEAD

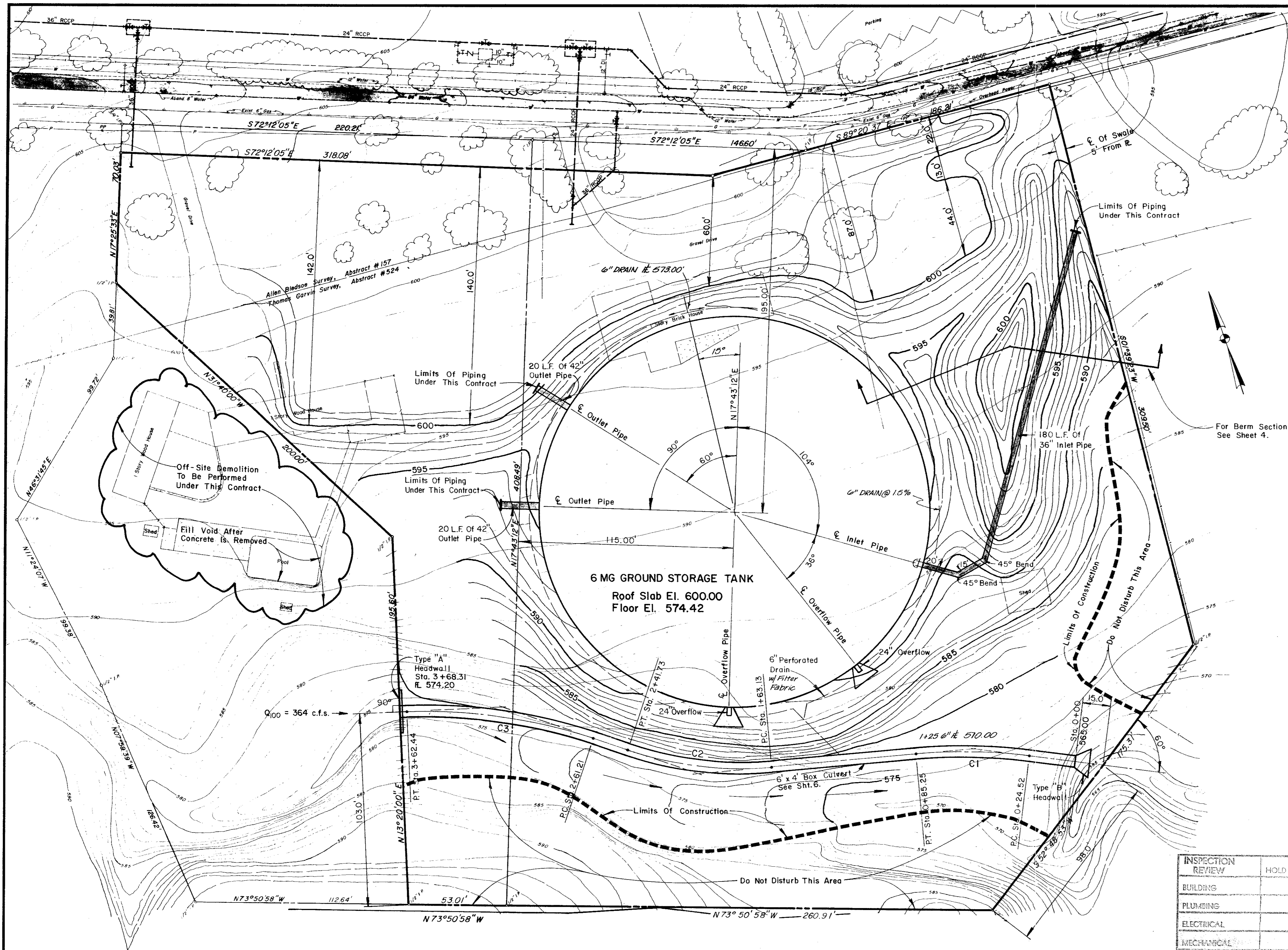
**COUNCIL MEMBERS:**  
STEWART BEATTY  
GREG COLE  
BARRY FINKELSTEIN  
RICHARD RODER  
LYNN SPRULL

Approved by: \_\_\_\_\_ Date: 5-2-86  
Jerry Redding, Mayor of Addison



**GINN, INC.**  
Consulting Engineers Dallas, Texas

*Construction  
DRAWINGS  
5-13-86  
RJA*



**LEGEND**

- Existing Water Line
- Proposed Water Line
- Existing Contour Line
- Proposed Contour Line
- Limits Of Construction
- Property Line
- Existing Fence
- Existing Structure
- Existing Tree
- Proposed Box Culvert
- Existing Valve

**GENERAL NOTES**

1. Contractor shall demolish existing structures on-site and on the adjacent property as directed by Engineer and Section 02227 of the Specifications.
2. ★ Denotes items, dimensions, and forming techniques that may be changed per qualified tank manufacturer.
3. Contractor shall restrict construction to between 7:00 AM and 6:00 PM Monday thru Friday, 8:00 AM and 6:00 PM Saturday, unless otherwise approved by the Engineer. No work will be allowed on Sunday.
4. The Contractor shall plan his work sequence in a manner that will cause the minimum interference with traffic during construction operation. Access to facilities must be maintained at all times throughout the duration of the construction.
5. Prior to the start of construction, it is the responsibility of the Contractor to determine the location of all utilities, whether or not shown on the plans. The Contractor shall also become familiar with any proposed adjustments to be made by the utility owners and extend full cooperation. Under no circumstances will a claim for extras, due to delay caused by various utility companies, be allowed.
6. Any costs resulting from Contractor damages to utilities shall be the responsibility of the Contractor.
7. The Contractor shall notify the Engineer prior to any construction of drainage facilities and paving.
8. All elevations are based on U.S.C. and G. Datum; USC and G. Bench Mark #E-921 is a bronze disc in the vertical wall of the Old Addison School Building (Magic Time Machine Restaurant), elevation 650.61 feet. New bench marks have been established along the project (shown on site plan sheet). The Contractor shall establish new bench marks as needed or before removal of the existing markers.
9. Prior to start of any excavation, Contractor shall have laid out (horizontally and vertically) all components of the project and have received approval from the Engineer before proceeding. The Contractor shall be responsible for all alignment and elevation control. The Contractor shall provide the Engineer a "cut sheet" prior to beginning any excavation or embankment, indicating all "cuts and fills" as required on the project.
10. Engineer and Town of Addison Landscape Department shall establish limits of construction.
11. Contractor is responsible for the site grading and placement of all fills and embankments as shown. The maximum slope allowed for embankments is 3:1. The fill and embankment shall be placed according to the specifications.

INSPECTION REVIEW	HOLD	APPROVED	REVIEWED BY
BUILDING		5-19-86	DP
PLUMBING			
ELECTRICAL			
MECHANICAL			
ZONING		5/11/86	MS
HEALTH			

DEPARTMENTAL REVIEW	HOLD	APPROVED	REVIEWED BY
PLUMBING			
ELECTRICAL			
MECHANICAL			
ZONING			
HEALTH			

<b>Drainage Criteria</b>		<b>6'x4' Box Culvert Curve Data</b>	
$Q_{100} = C I_{100} A$ , Rational Method		C1	$\Delta = 12^{\circ}00'00''$
Where $Q_{100}$ = 100 Year Storm			R = 290.00'
C = Runoff Coefficient, 0.9			L = 60.73'
$I_{100}$ = Intensity Of 100 Year Storm, Tech Paper #40		C2	$\Delta = 22^{\circ}31'06''$
A = Drainage Area			R = 200.00'
			L = 78.60'
			T = 39.82'
$Q = (0.9)(11.6)(34.9) = 364$ c.f.s.		C3	$\Delta = 20^{\circ}00'00''$
			R = 290.00'
			L = 101.23'
			T = 51.13'

**Benchmarks:**  
 TBM #1 "1" Set on N.E. corner concrete water valve vault located 70' ± north of N.W. property corner. ELEV. 608.44  
 TBM #2 "1" Set on front porch of church at 5555 Celestial Road. ELEV. 577.95



ADD TANK PERIMETER DRAIN ELEVATIONS

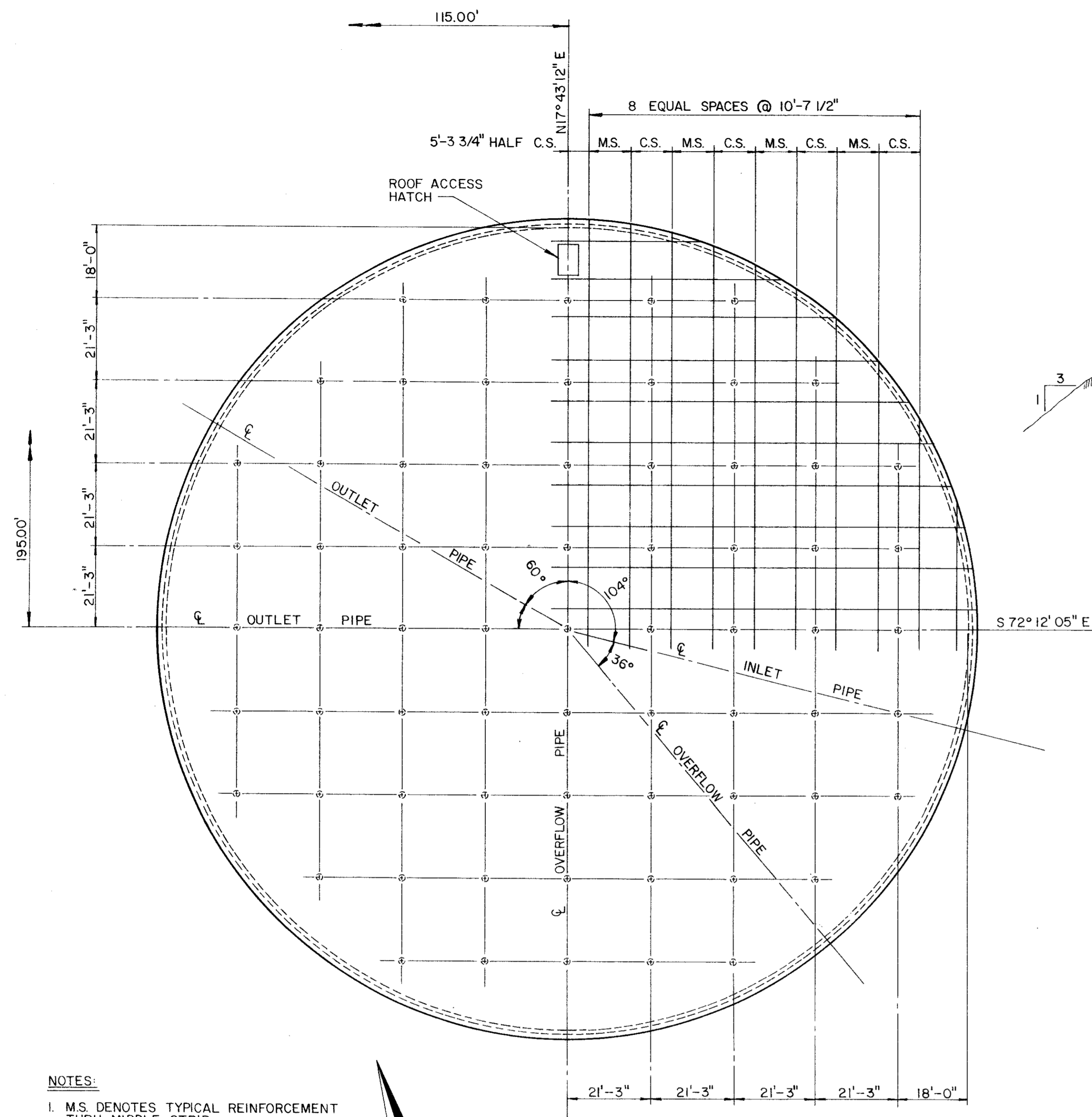
No.	Revision	By	Date

TOWN OF ADDISON  
 DALLAS COUNTY, TEXAS  
**6 MG CELESTIAL ROAD STORAGE TANK**

**SITE PLAN**

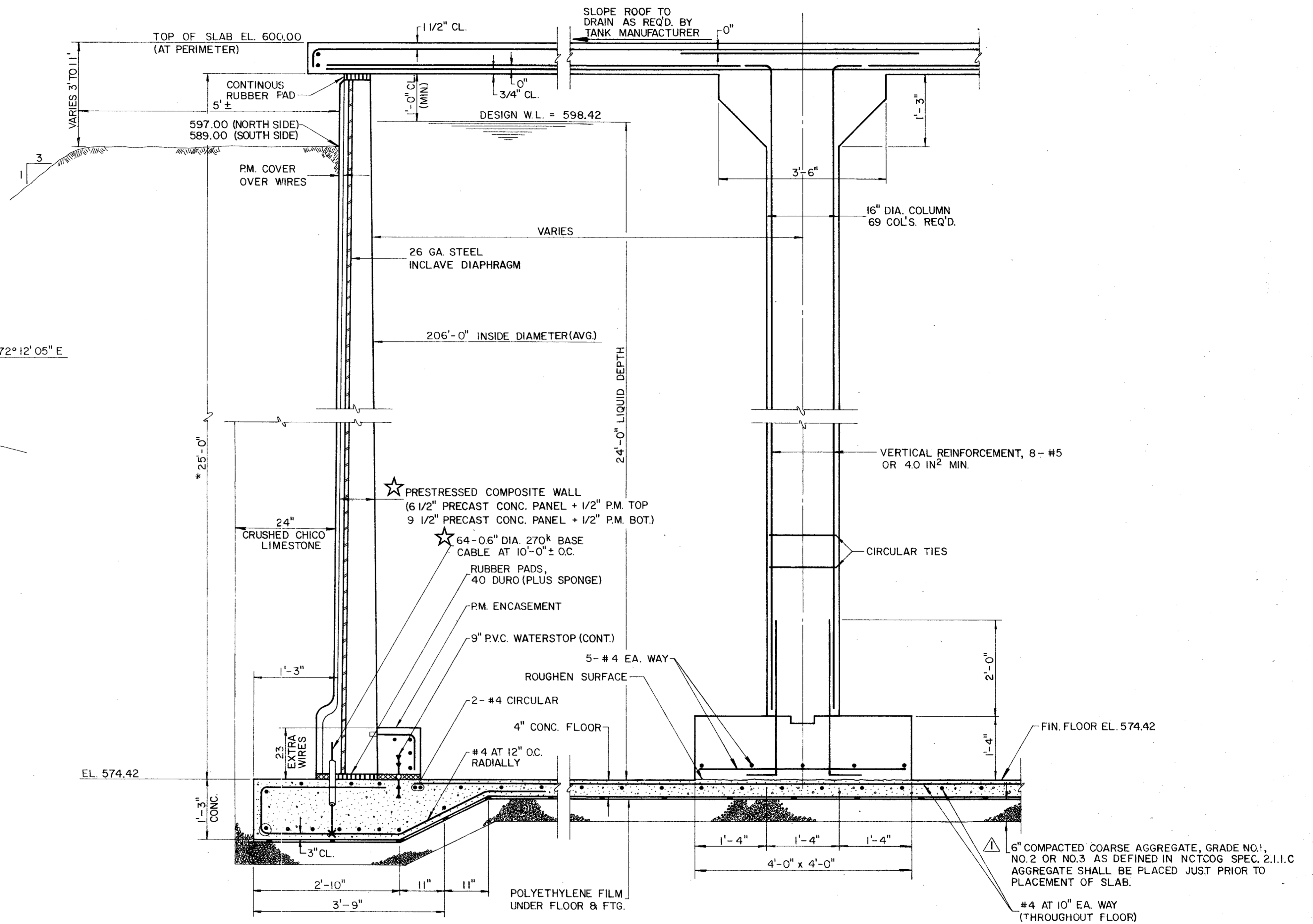
**GINN, INC.**  
 Consulting Engineers Dallas, Texas

Designed - RCH	Drawn - ALA	Date - FEB. 1986	Job No. - 215
Approved - HWG	Checked - GF	Scale - 1" = 30'	Sheet 1 of 8



NOTES:  
 1. M.S. DENOTES TYPICAL REINFORCEMENT THRU MIDDLE STRIP.  
 2. C.S. DENOTES TYPICAL REINFORCEMENT THRU COLUMN STRIP.

★ ROOF PLAN  
N.T.S.

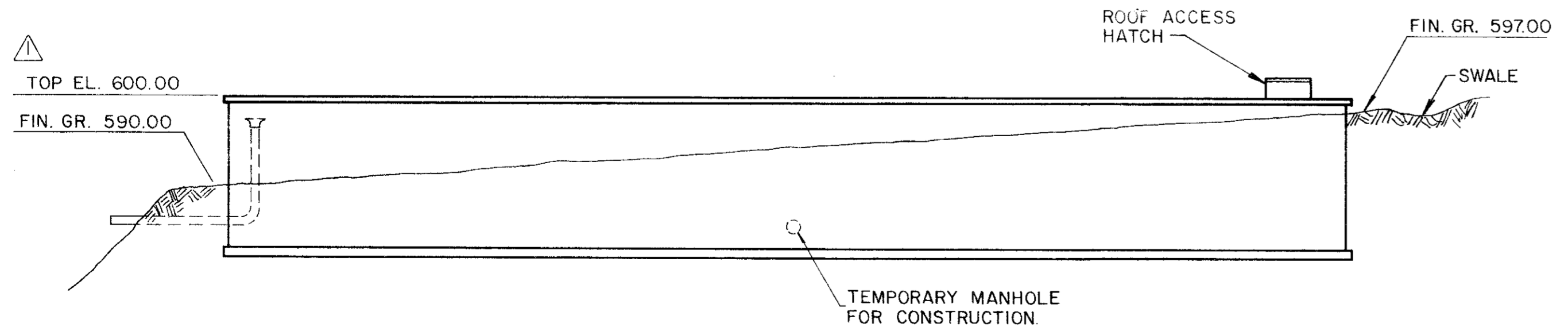


★ SECTION THRU COLUMN STRIP  
N.T.S.

NOTE: MAXIMUM SOIL PRESSURE = 10,000 P.S.F.

\* HORIZONTAL PRESTRESSING WIRES AT 150,000 P.S.I. INITIAL AND 120,000 P.S.I. DESIGN STRESS WITH 61 WIRES/FT. AT BOTTOM TO 14 WIRES/FT. AT 6'-0" FROM TOP OF WALL AND 14 WIRES/FT. TO TOP OF WALL.  
 WIRE DIAMETER BEFORE PRESTRESSING = 0.192"  
 DIE DIAMETER = 0.164"

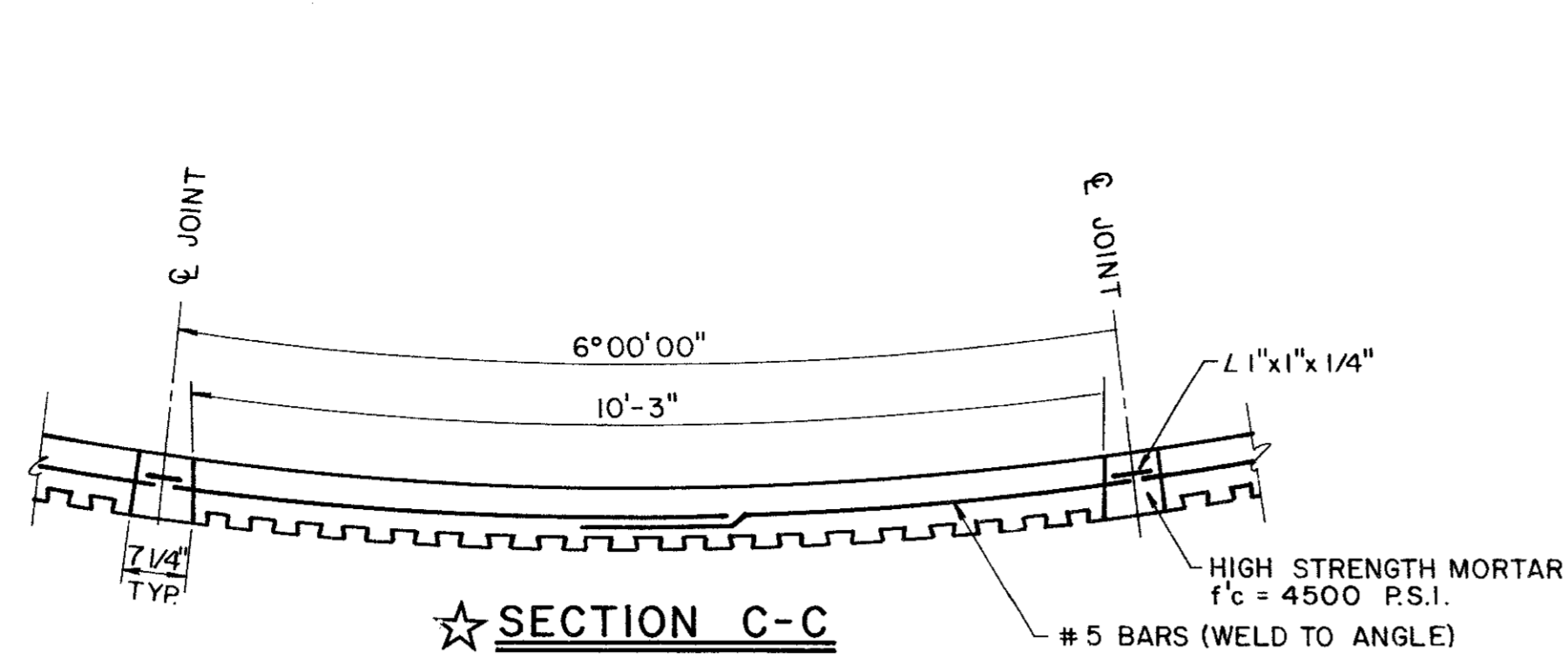
- NOTES:
- P.M. = PNEUMATIC MORTAR
  - MINIMUM 28 DAY CONCRETE CYLINDER STRENGTHS:  
 FLOOR, FOOTING & COLUMN FOOTING 3000 P.S.I.  
 ROOF SLAB 4000 P.S.I.  
 COLUMN CONCRETE 4000 P.S.I.  
 WALL CONCRETE 4500 P.S.I.  
 PNEUMATIC MORTAR 4500 P.S.I.
  - ROOF LIVE LOAD = 100 P.S.F.
  - REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GR-60.



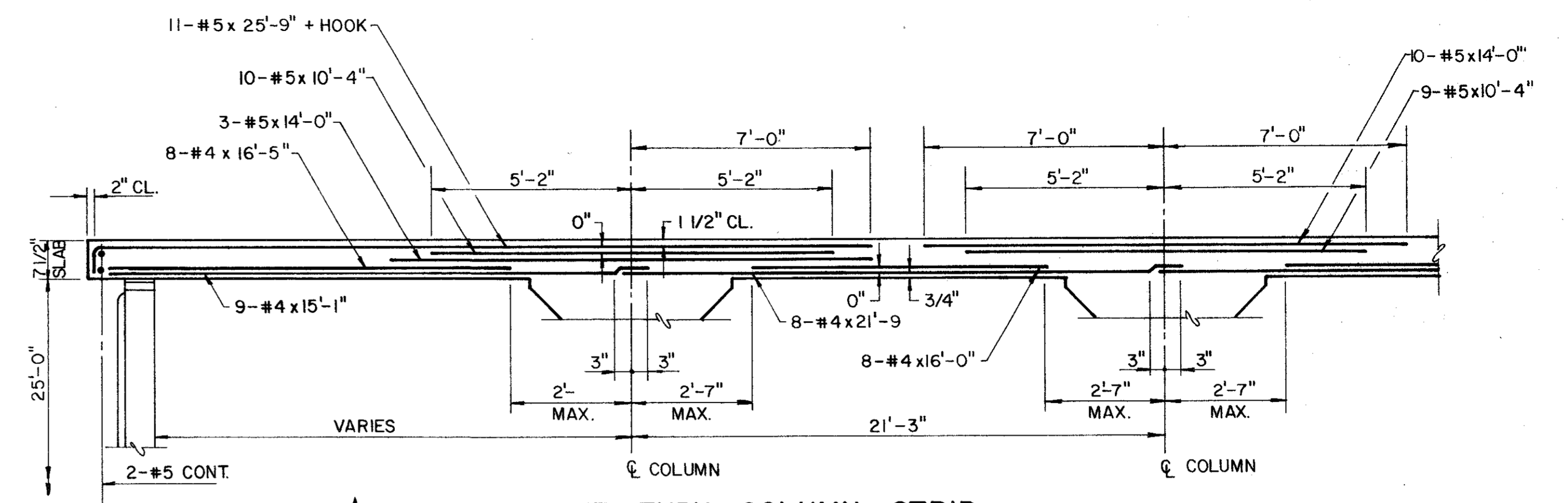
ELEVATION (LOOKING WEST)  
N.T.S.



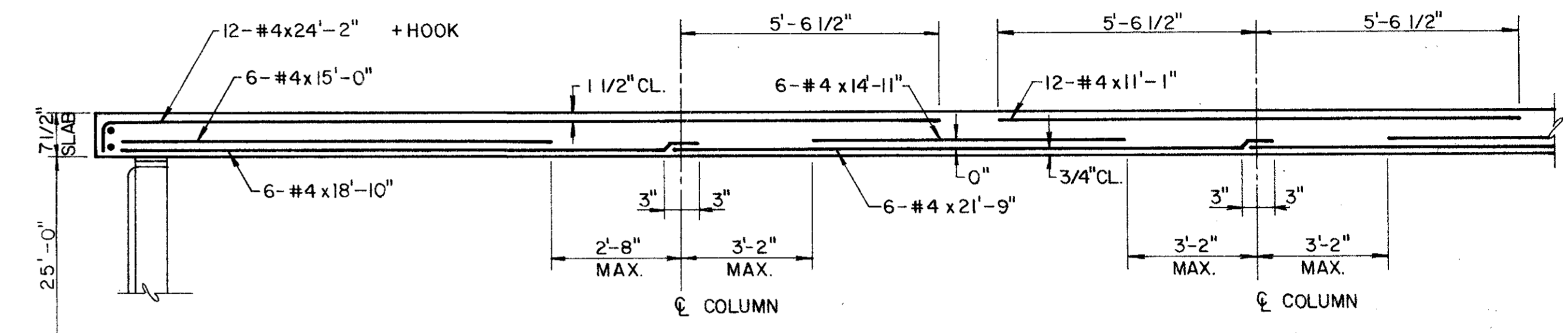
REVISE TOP OF TANK ELEVATIONS		RCH	5-7-86
No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<b>6 MG CELESTIAL ROAD STORAGE TANK</b>			
<b>PLAN AND SECTIONS</b>			
GINN, INC. Consulting Engineers Dallas, Texas			
Designed - RCH	Drawn - ALA	Date - FEB, 1986	Job No. - 215
Approved - HWG	Checked - GF	Scale - AS SHOWN	Sheet 2 of 8



☆ SECTION C-C

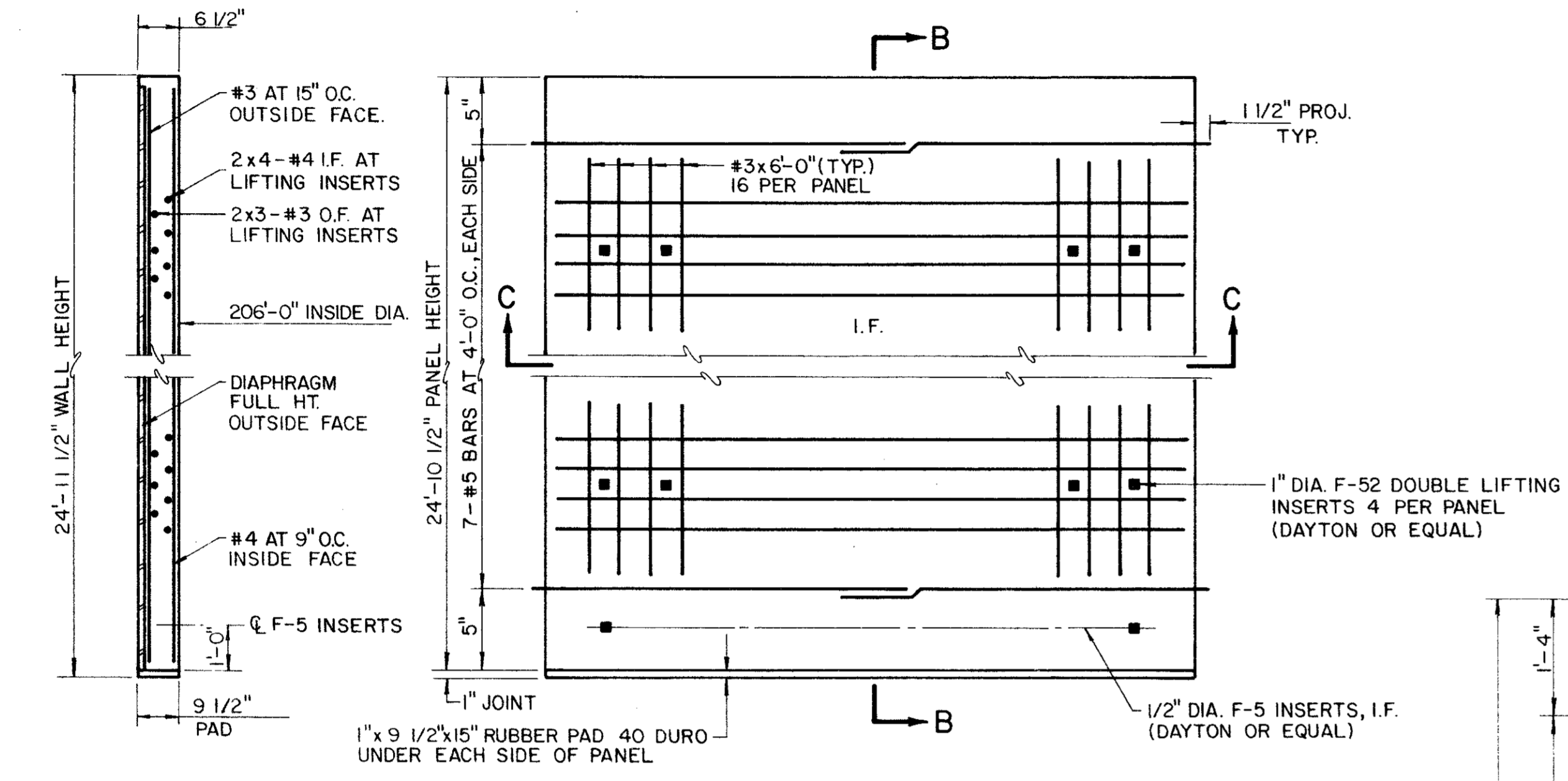


☆ REINFORCEMENT THRU COLUMN STRIP



☆ REINFORCEMENT THRU MIDDLE STRIP

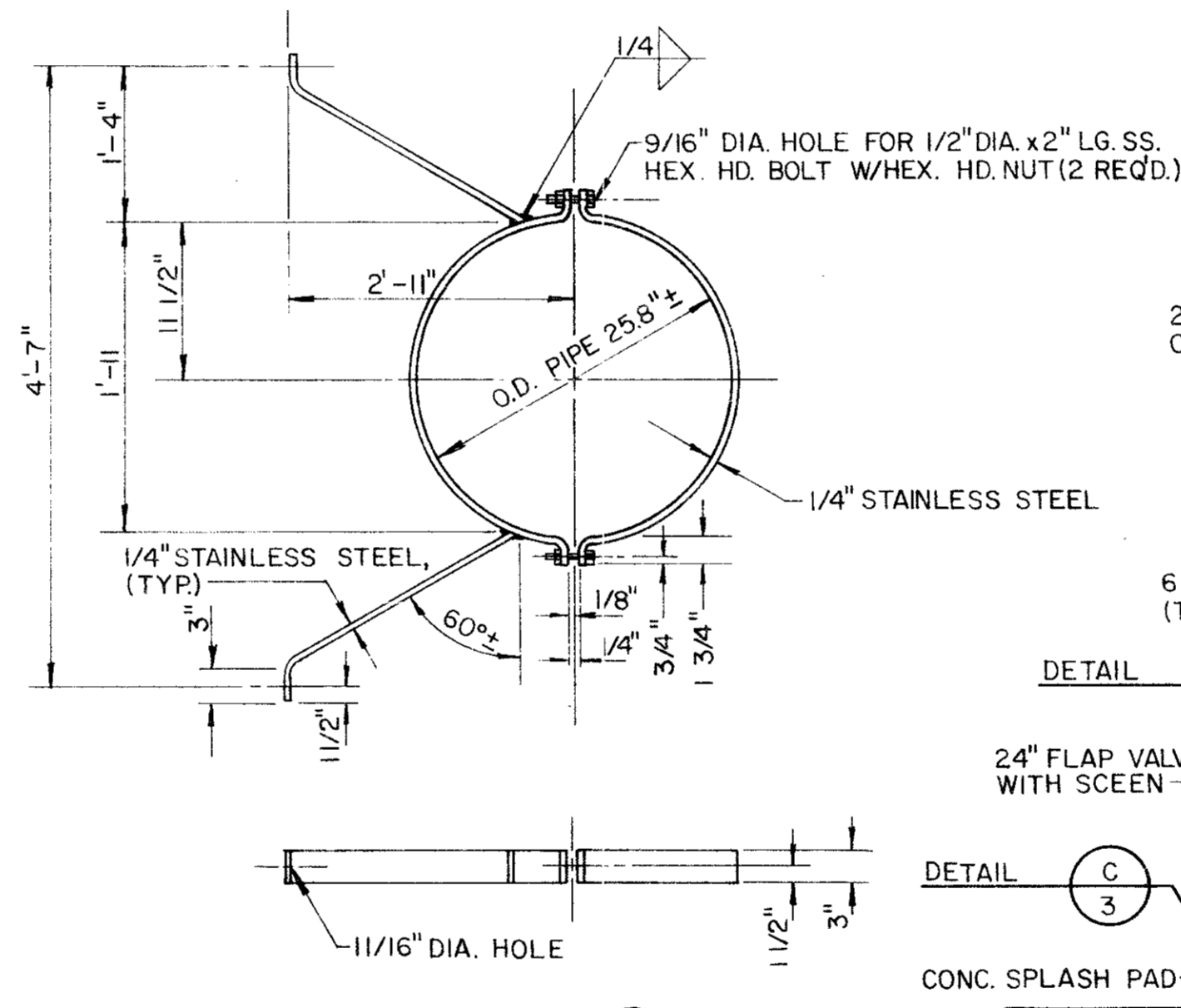
REINFORCEMENT SHOWN IN ONE DIRECTION ONLY FOR CLARITY



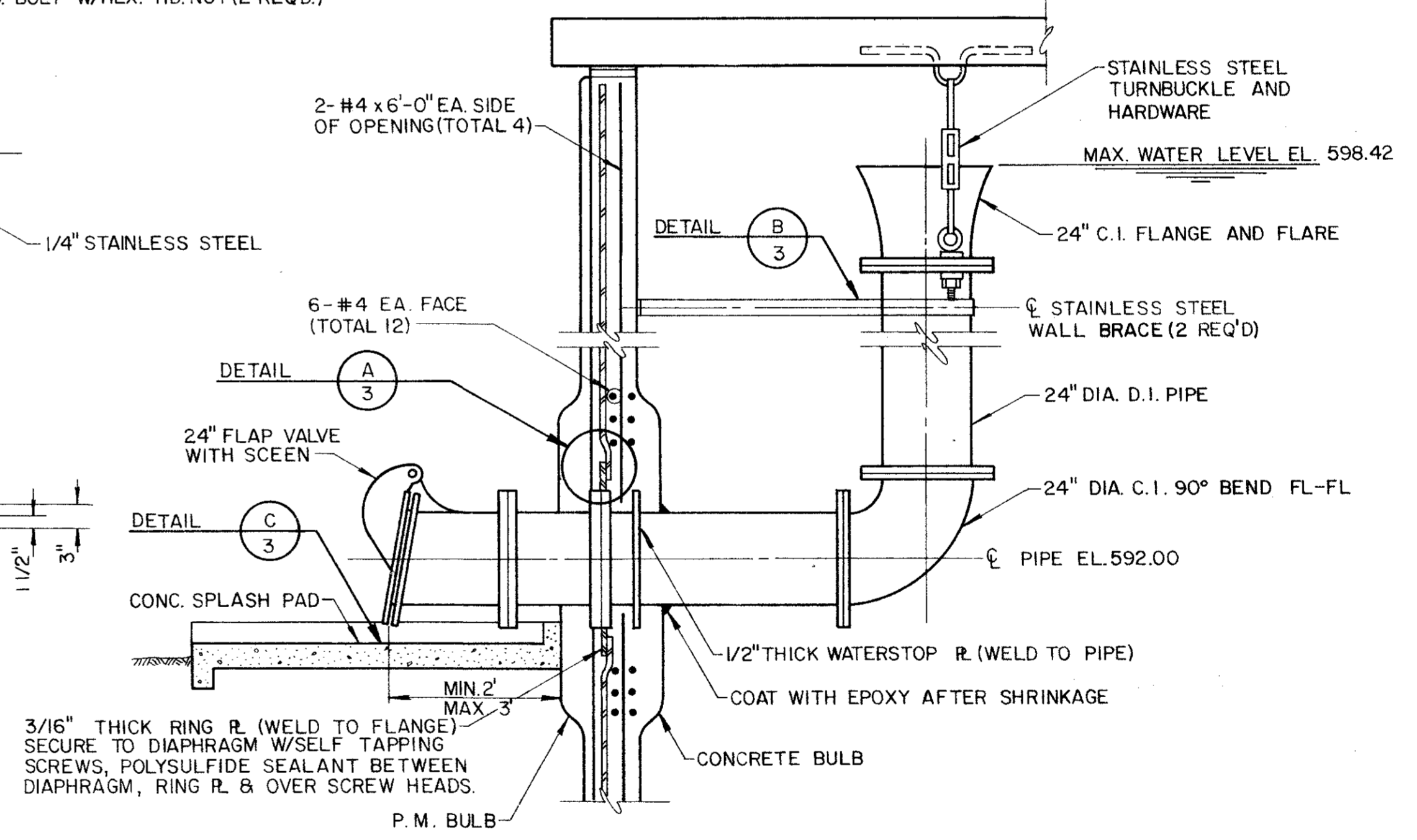
☆ SECTION B-B

☆ PANEL ELEVATION

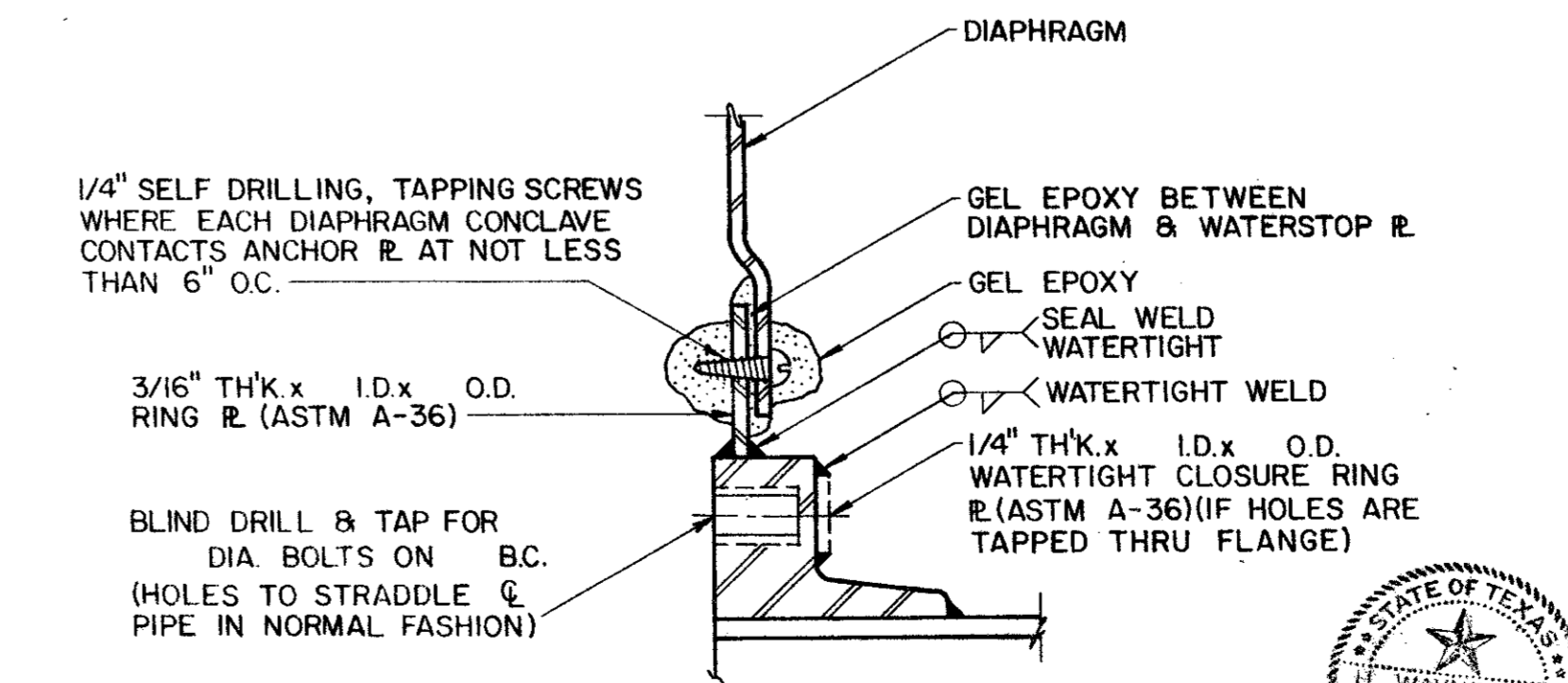
☆ (60 REQ'D.)



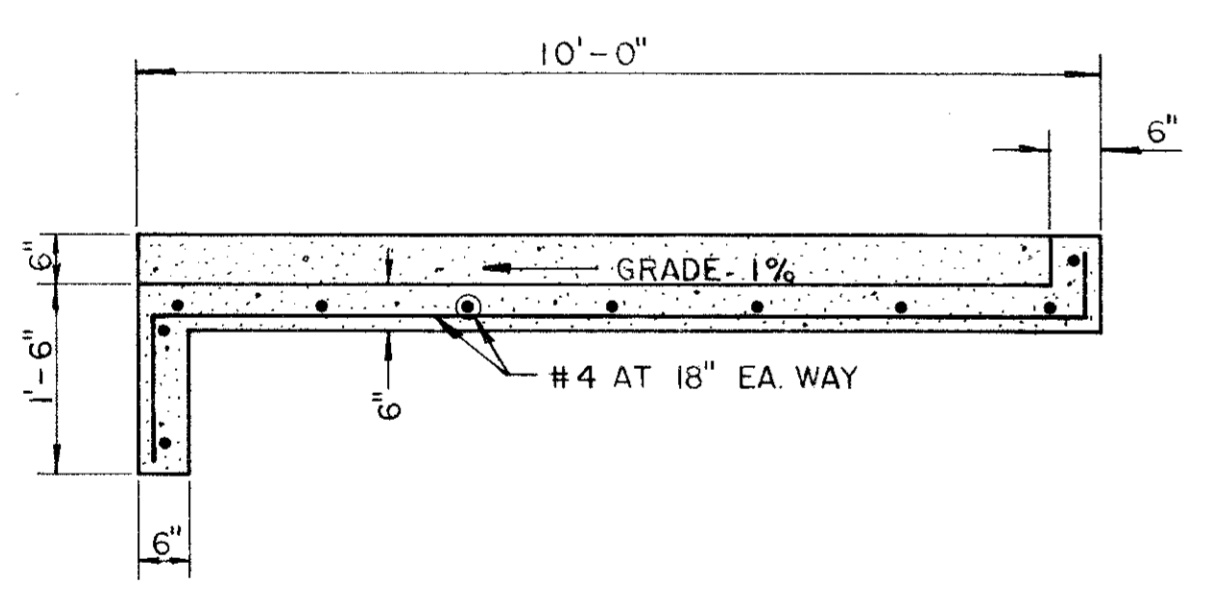
DETAIL B



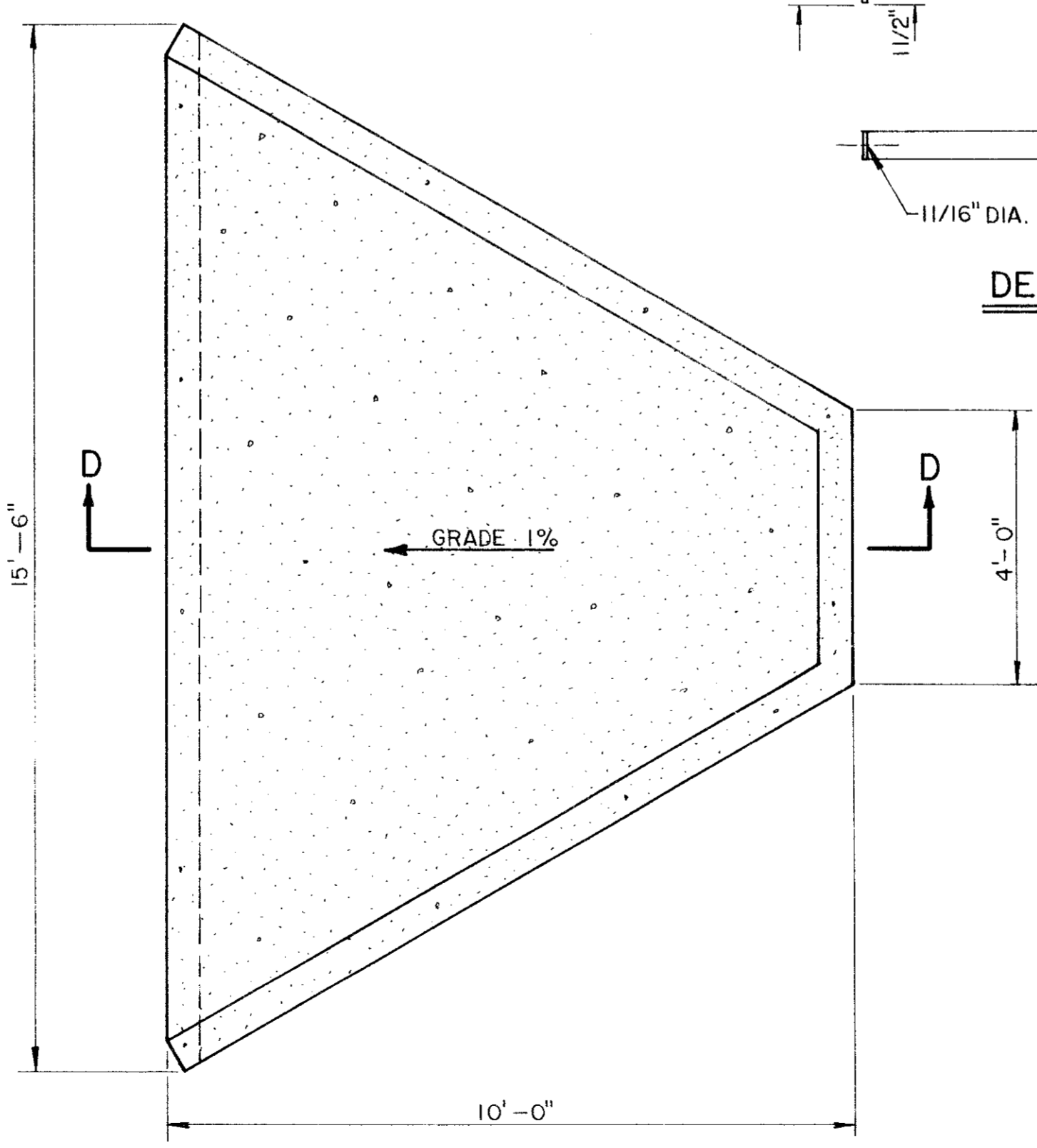
OVERFLOW DETAIL



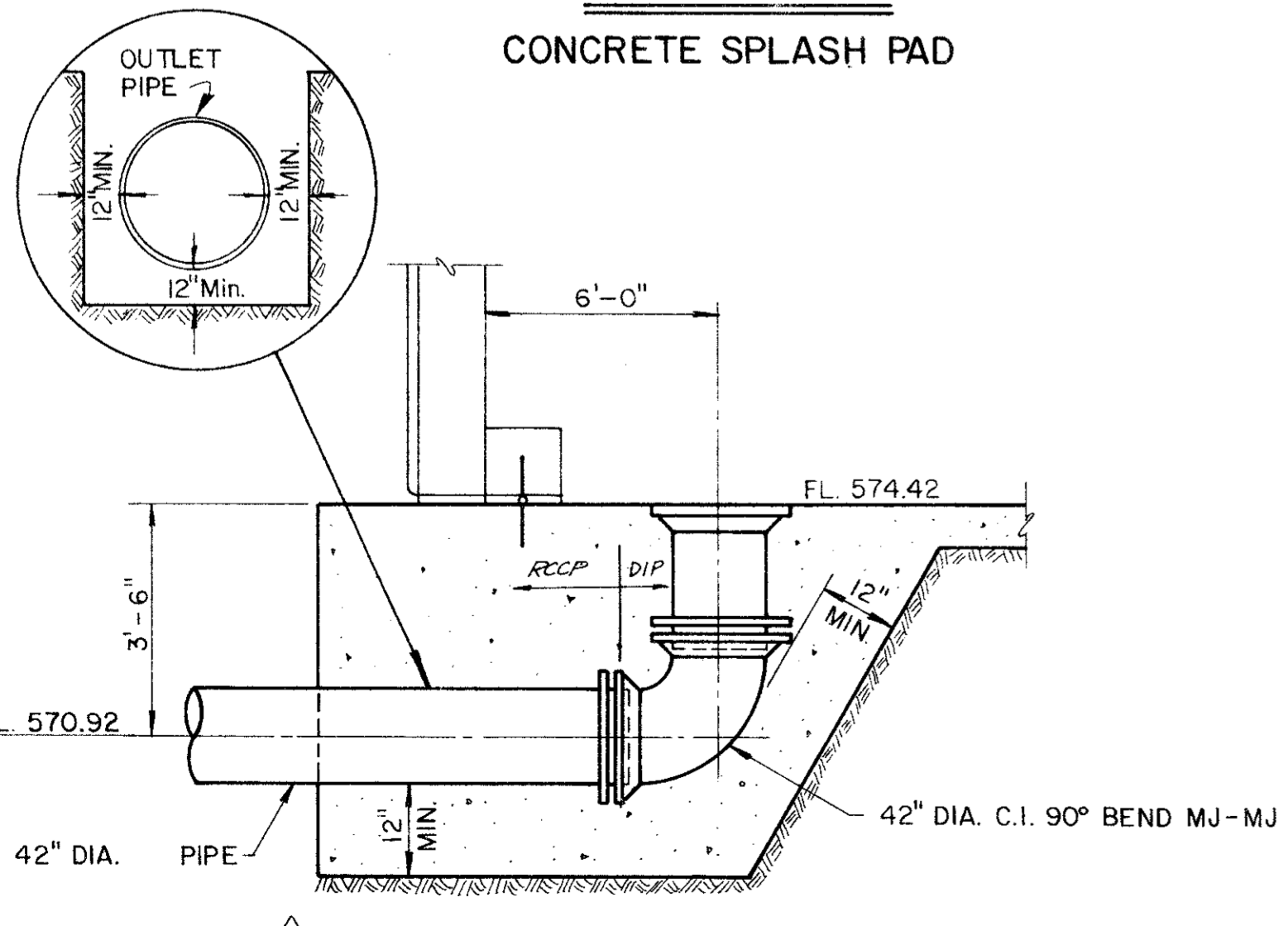
DETAIL A



SECTION D-D  
CONCRETE SPLASH PAD



DETAIL C

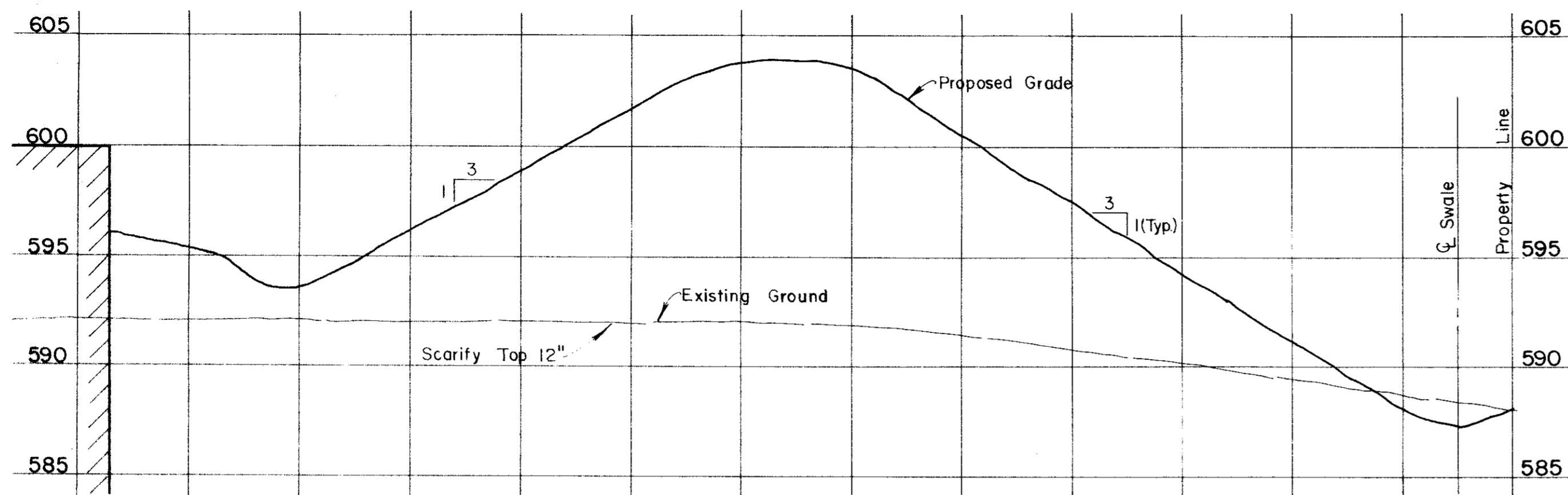


OUTLET PIPE DETAIL

CLARIFY OUTLET PIPE DETAIL			
No.	Revision	By	Date

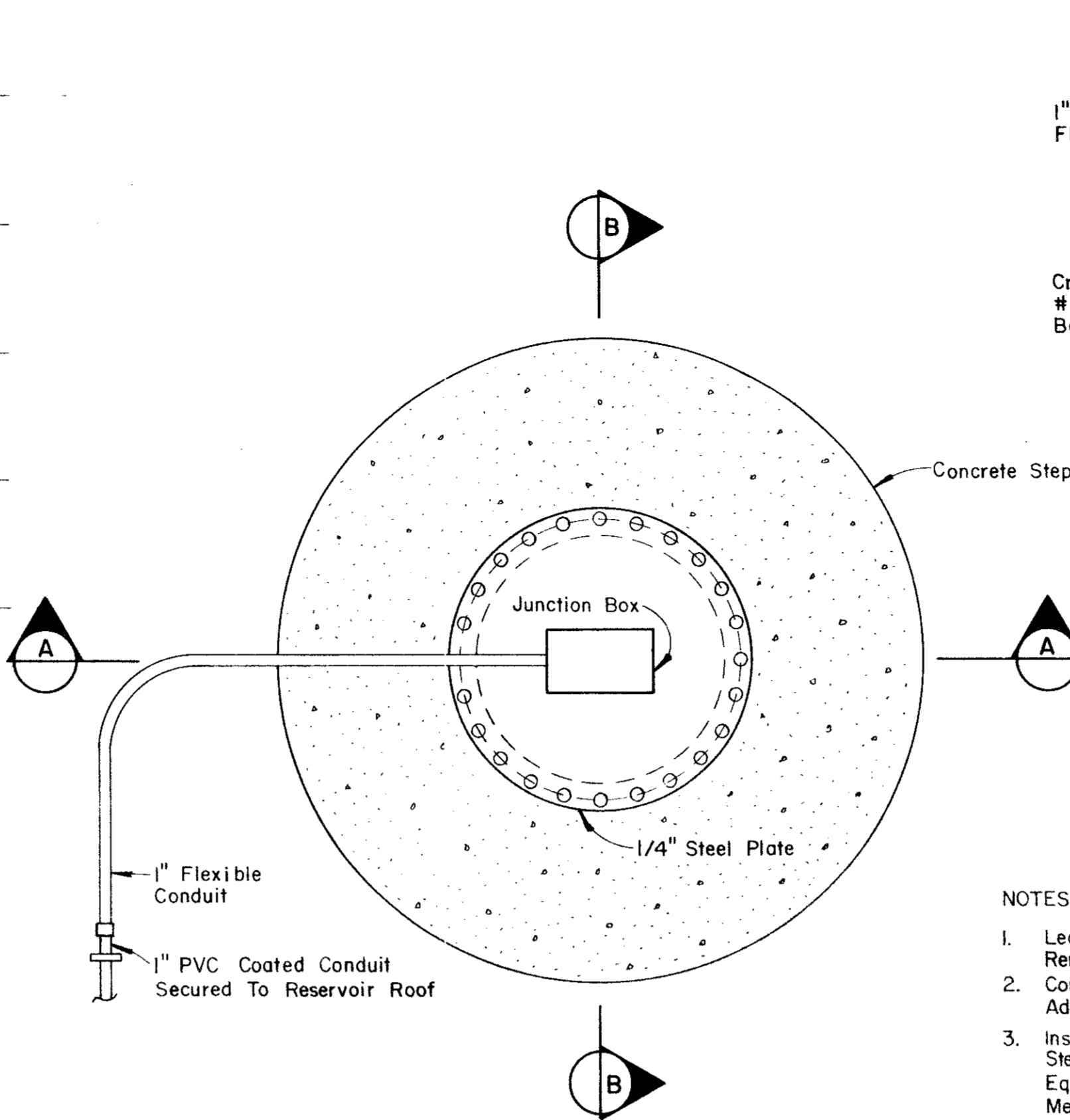
TOWN OF ADDISON  
 DALLAS COUNTY, TEXAS  
**6 MG CELESTIAL ROAD STORAGE TANK**  
**MISCELLANEOUS TANK DETAILS**  
**GINN, INC.**  
 Consulting Engineers Dallas, Texas

Designed - RCH	Drawn - ALA	Date - FEB. 1986	Job No. - 215
Approved - HWG	Checked - GF	Scale - NOT TO SCALE	Sheet 3 of 8



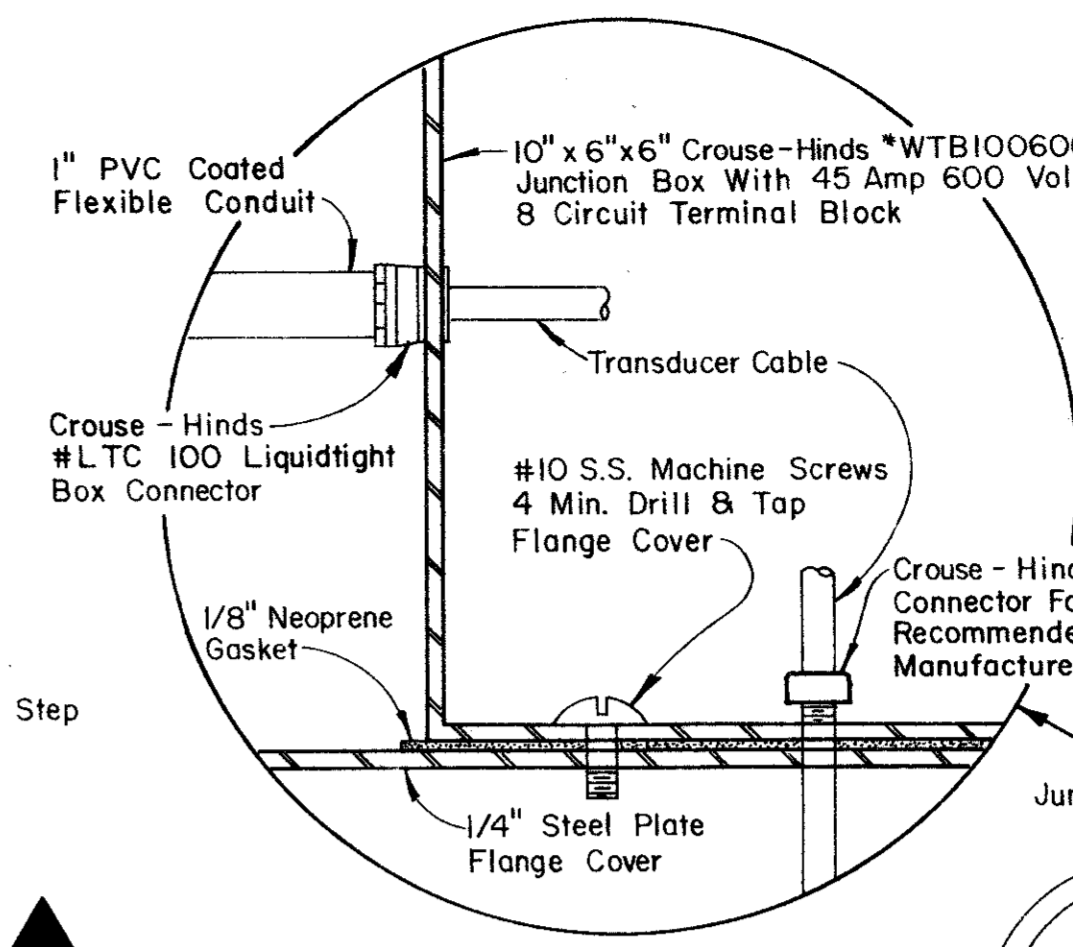
**BERM SECTION**

Scale: H: 1" = 10'  
V: 1" = 5'



**PLAN SONIC LEVEL TRANSMITTER**

Scale: 1" = 1'-0"

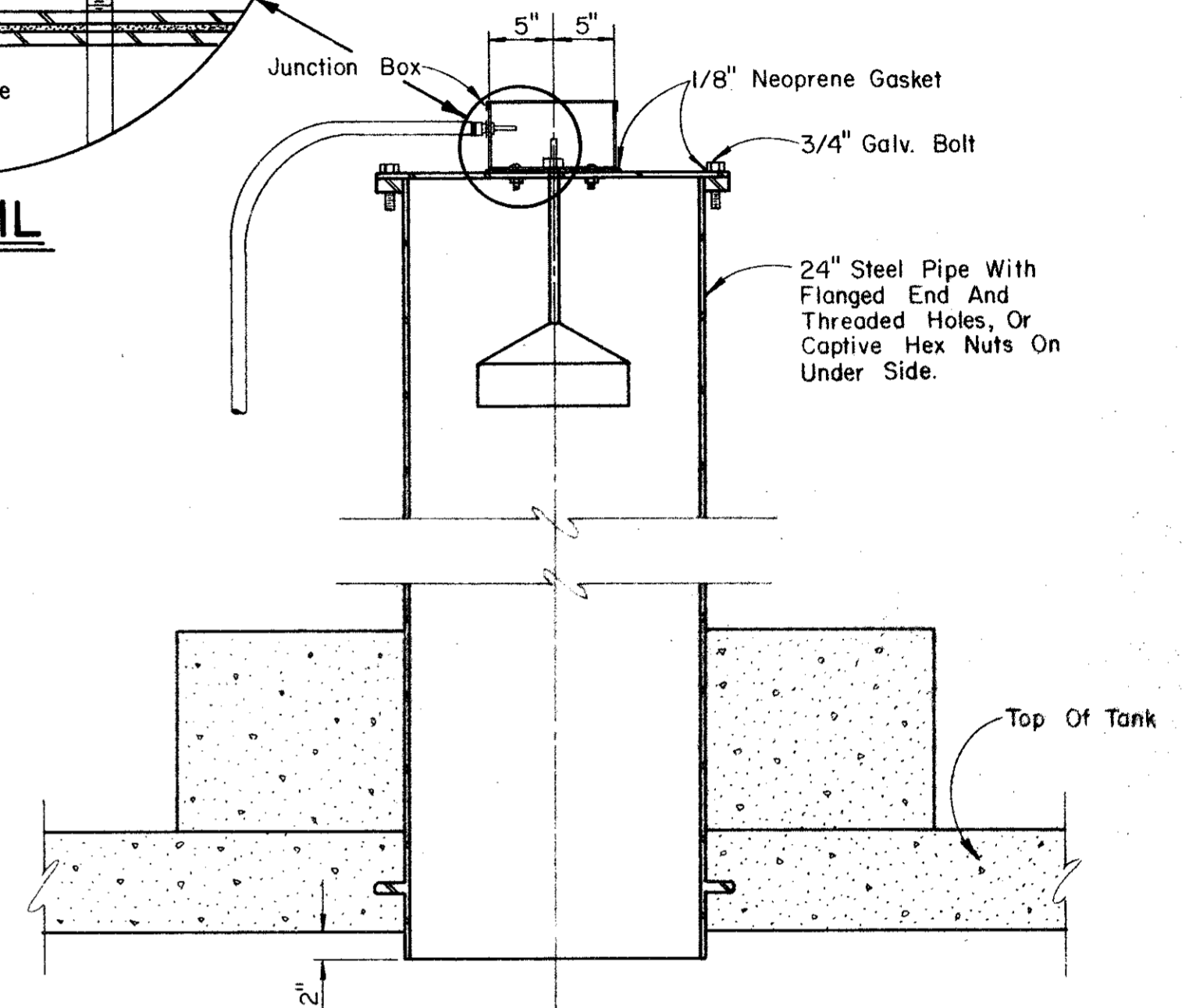


**DETAIL**

N.T.S.

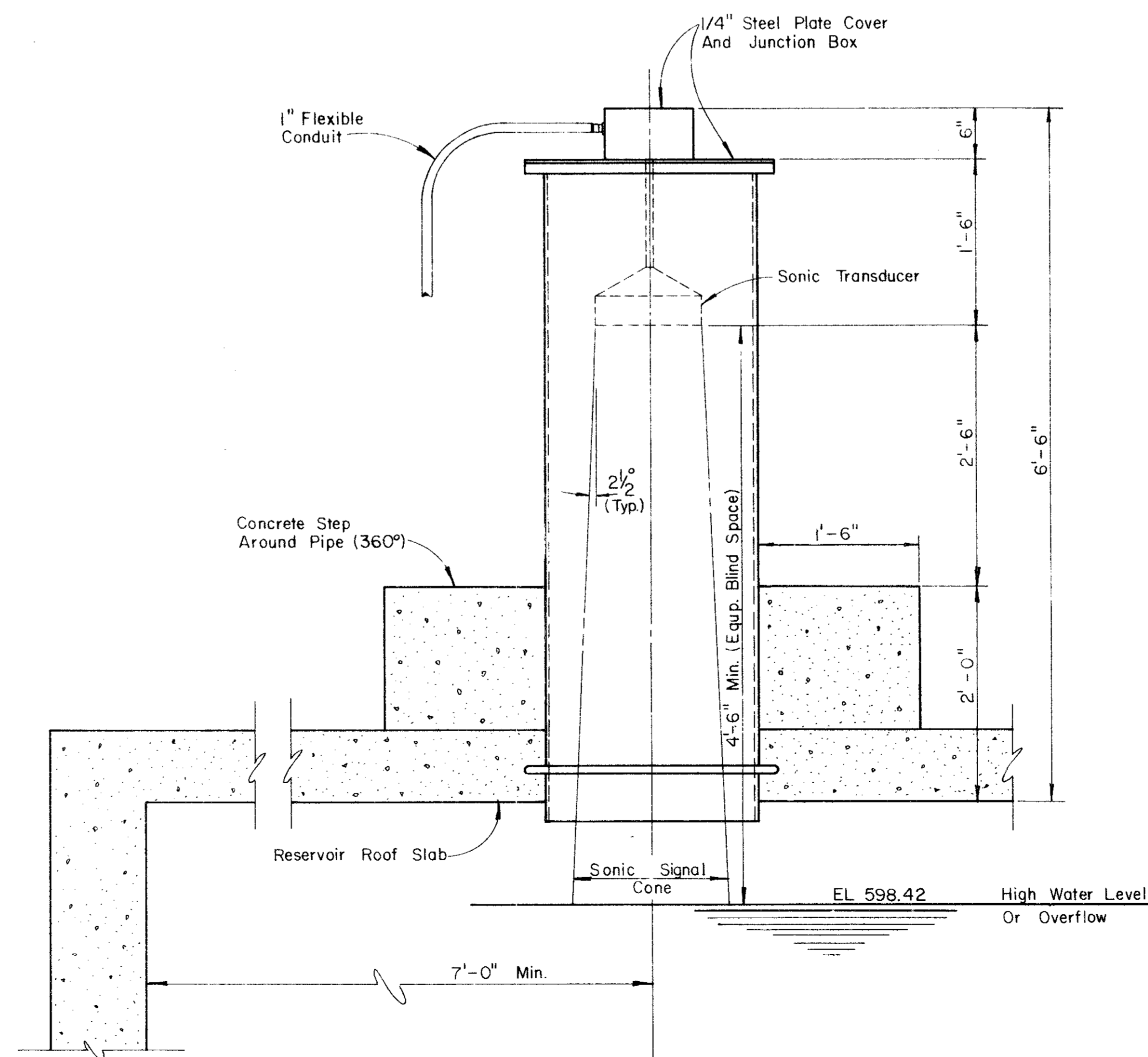
**NOTES:**

1. Leave Slack In Flexible Conduit For Removal Of Cover Plate.
2. Coil Excess Cable In Box For Future Adjustments.
3. Installation Of 24" Steel Pipe And Step Will Be By Reservoir Contractor. Equipment Will Be Installed By Meter Vault Contractor.
4. Install Transducer On A Radius Line A Minimum Of 90° From The Inlet And Overflow.



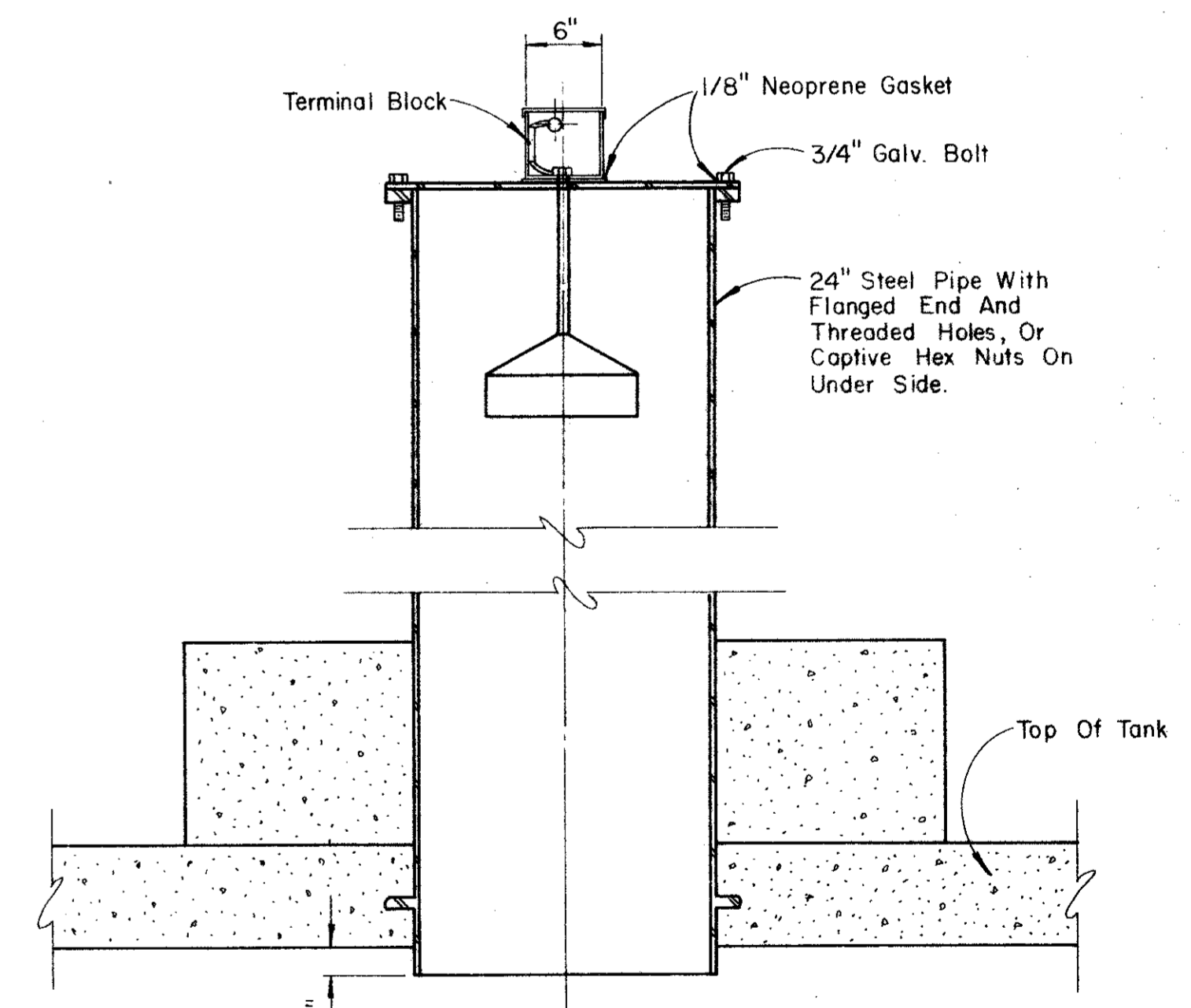
**SECTION A-A**

Scale: 1" = 1'-0"



**ELEVATION**

Scale: 1" = 1'-0"

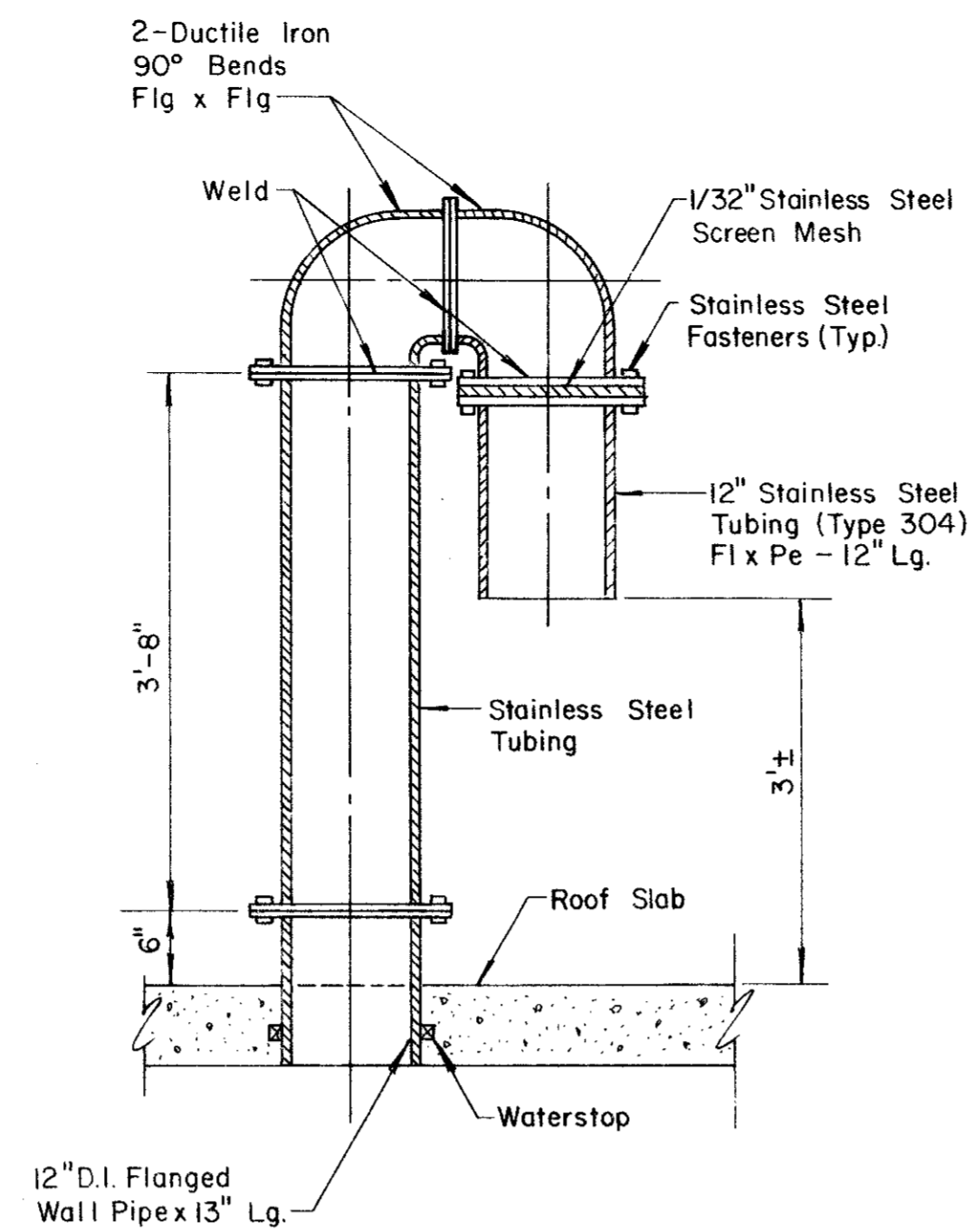


**SECTION B-B**

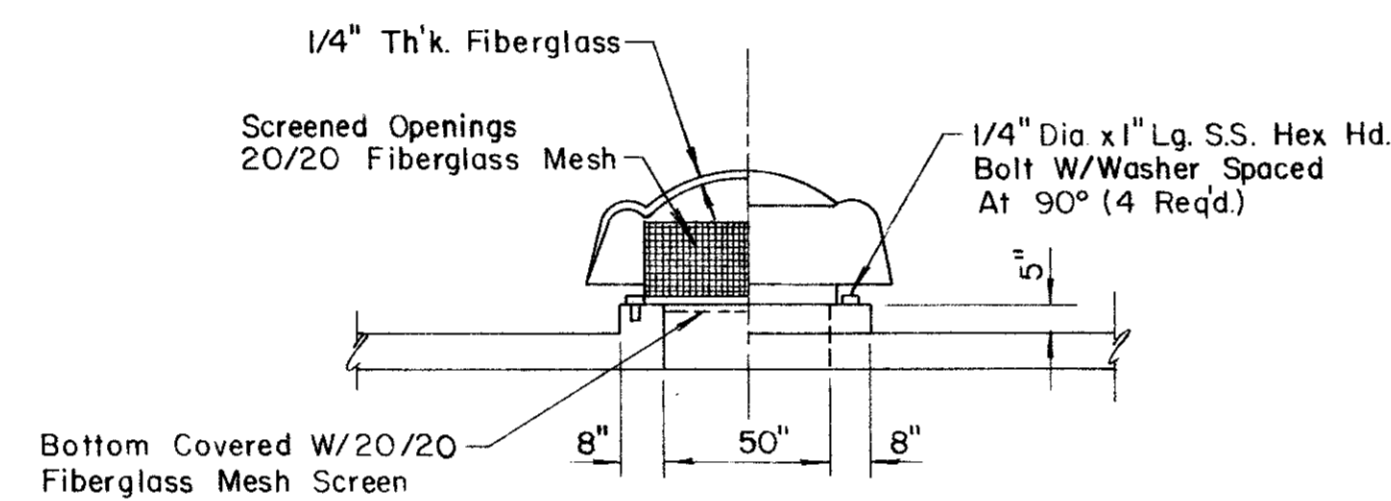
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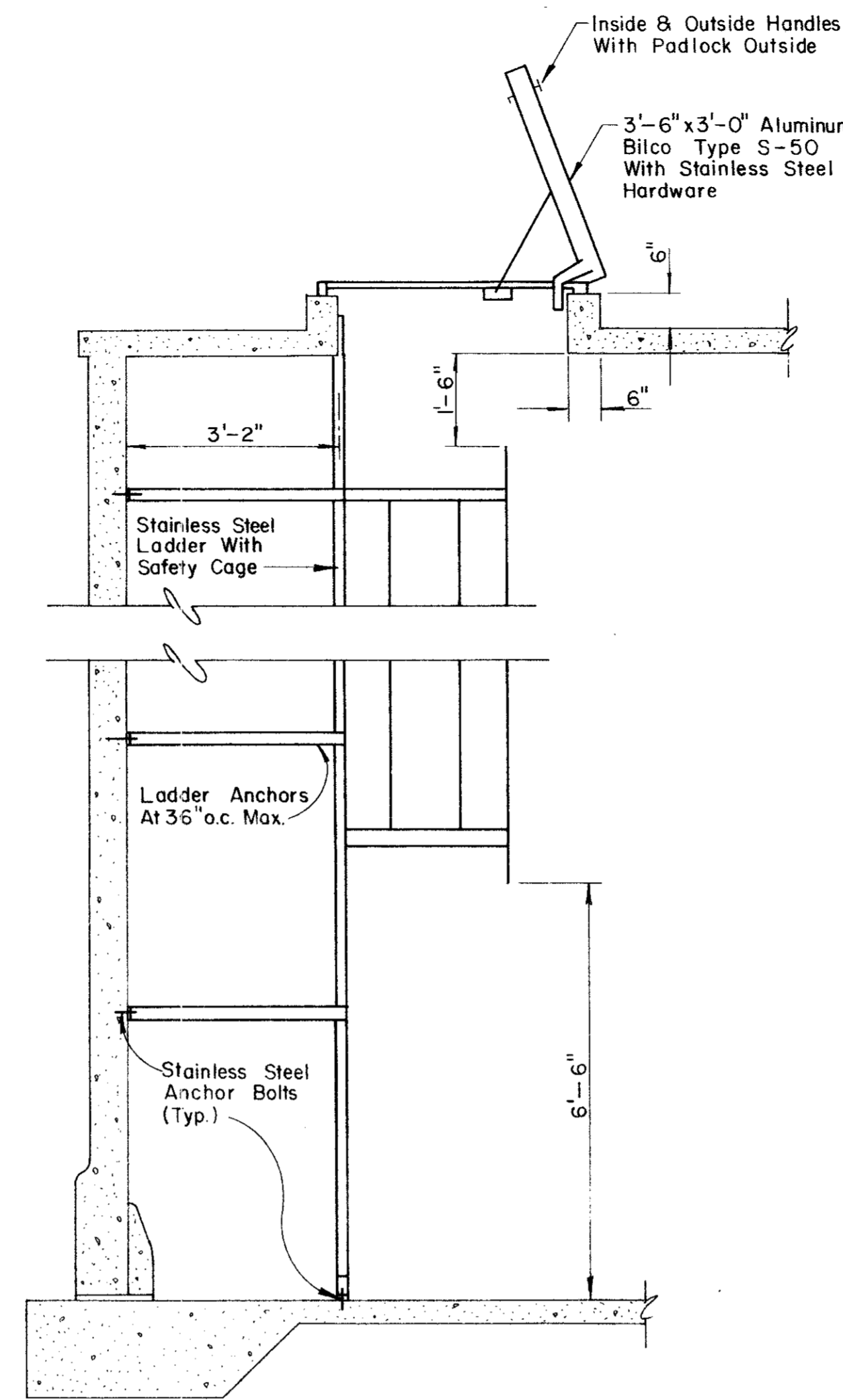
1 SONIC LEVEL TRANSMITTER ADDENDUM #1		RCH	5-7-86
No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS			
<b>6 MG CELESTIAL ROAD STORAGE TANK</b>			
<b>MISCELLANEOUS TANK DETAILS</b>			
GINN, INC. Consulting Engineers Dallas, Texas			
Designed - RCH	Drawn - ALA	Date - FEB. 1986	Job No. - 215
Approved - HWG	Checked - GF	Scale - AS SHOWN	Sheet 4 of 8



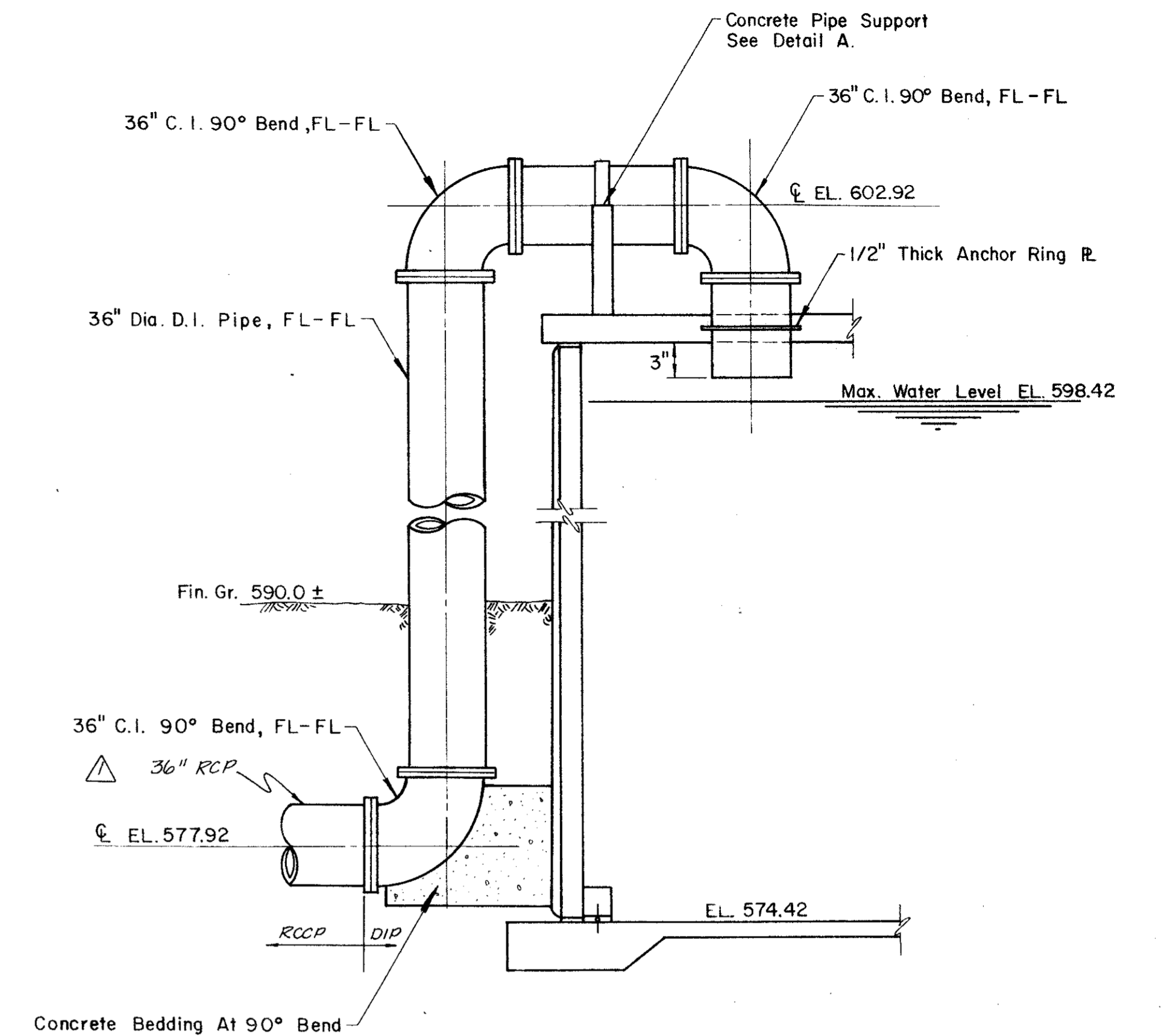
**ROOF VENT  
ALTERNATIVE I**



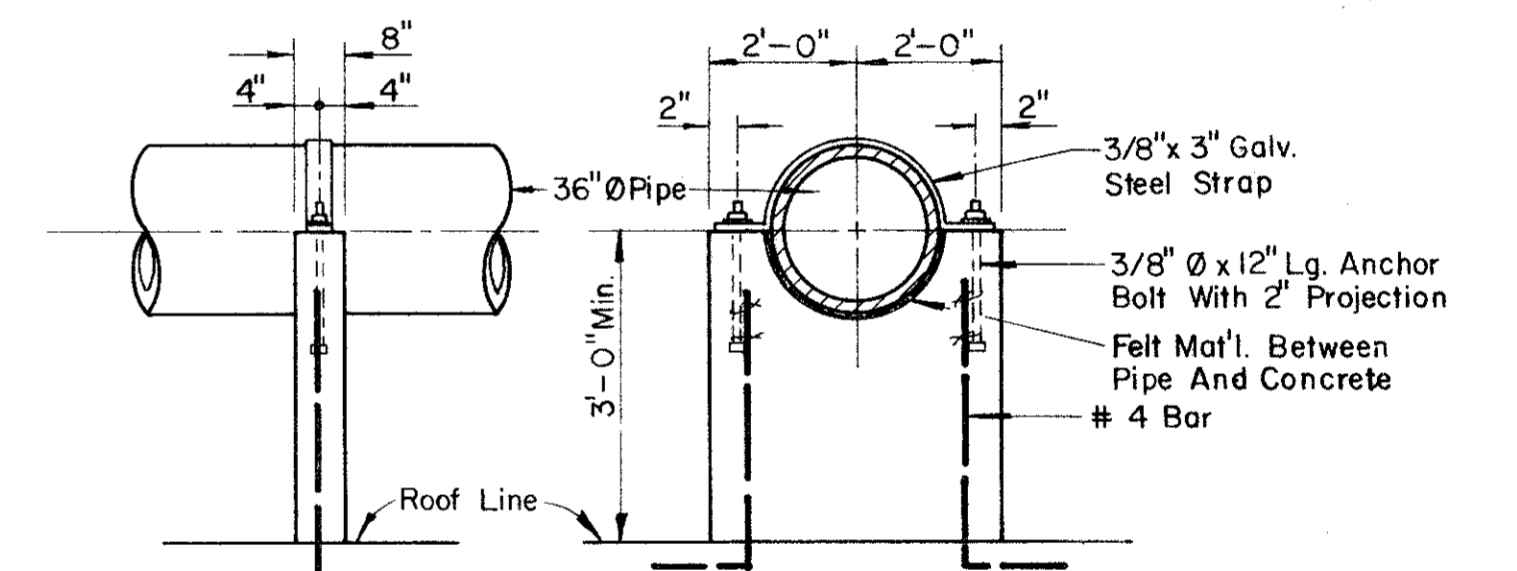
**ROOF VENT  
ALTERNATIVE II**



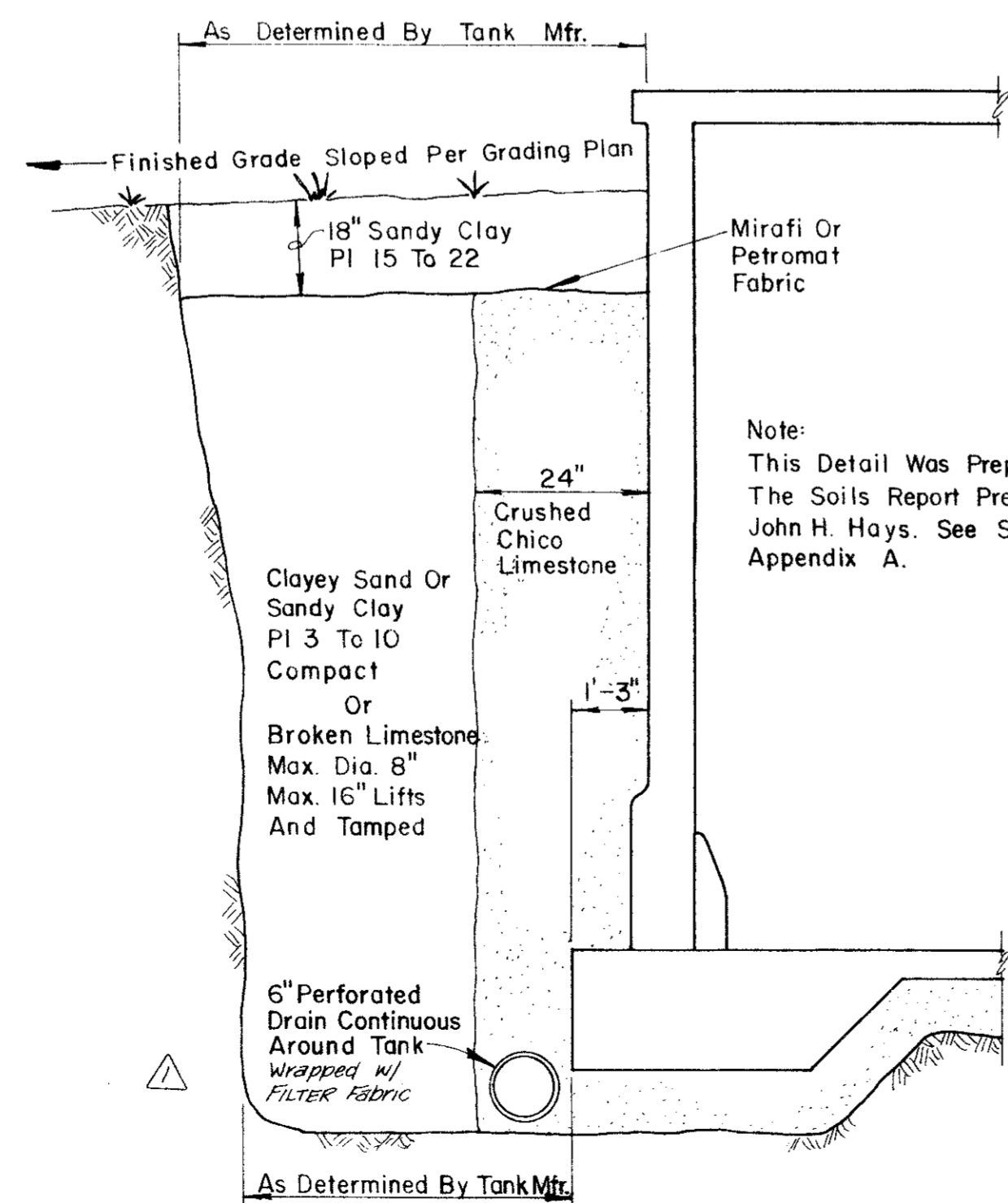
**ACCESS LADDER  
AND HATCH DETAIL**



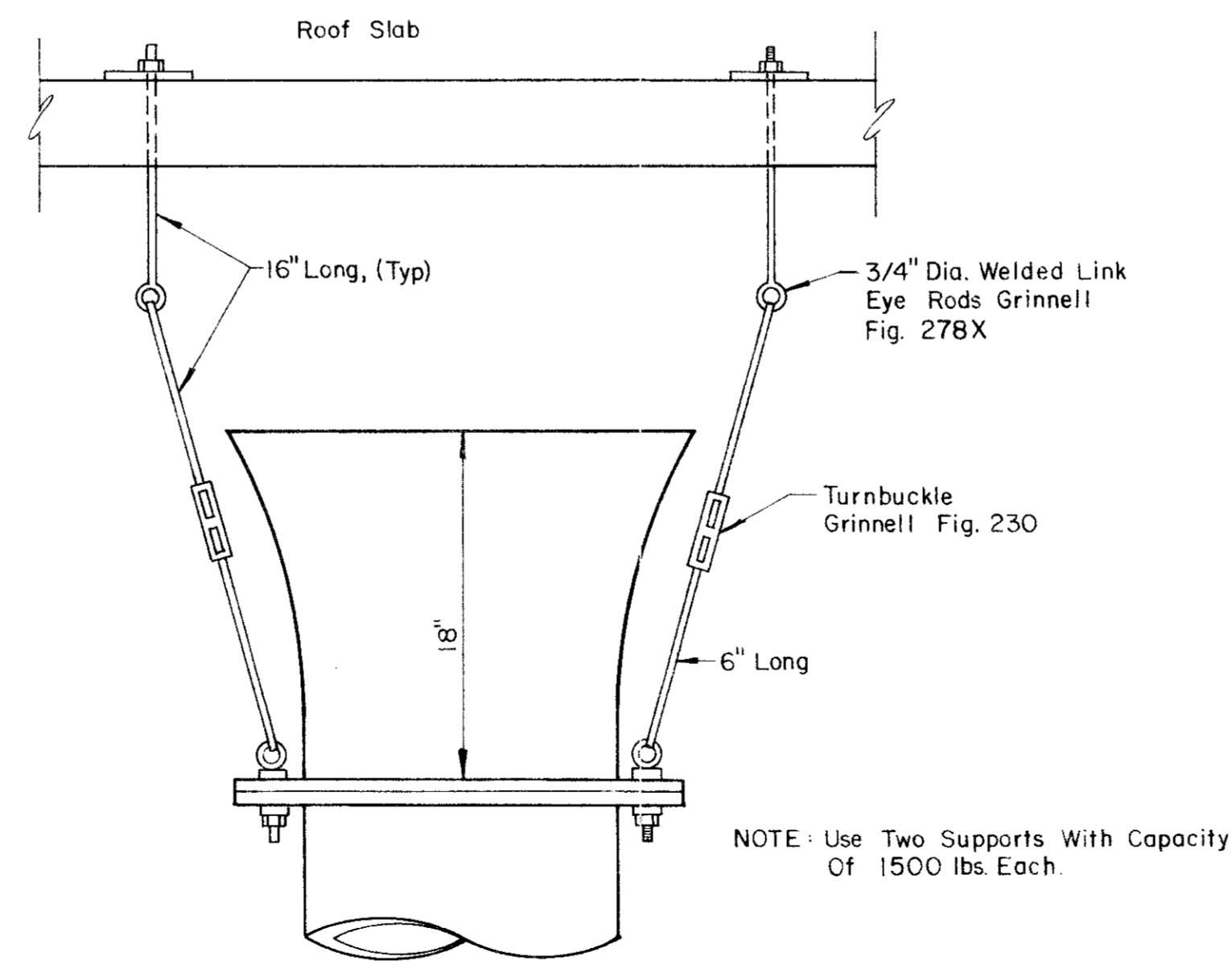
**INLET PIPE**



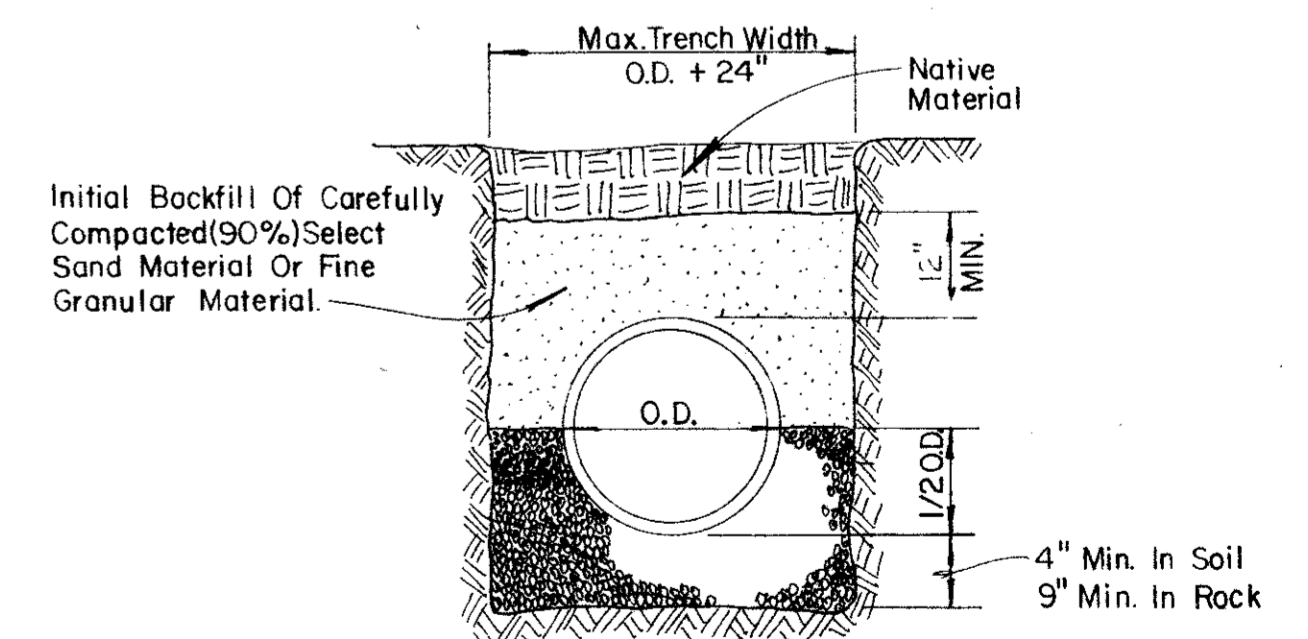
**DETAIL A**



**TANK BACKFILL DETAIL**



**PIPE SUPPORT**



**EMBEDMENT DETAIL  
FOR WATERLINES**



ADDENDUM # 1		Revision	By	Date
No.				

TOWN OF ADDISON  
DALLAS COUNTY, TEXAS

**6 MG CELESTIAL ROAD STORAGE TANK**

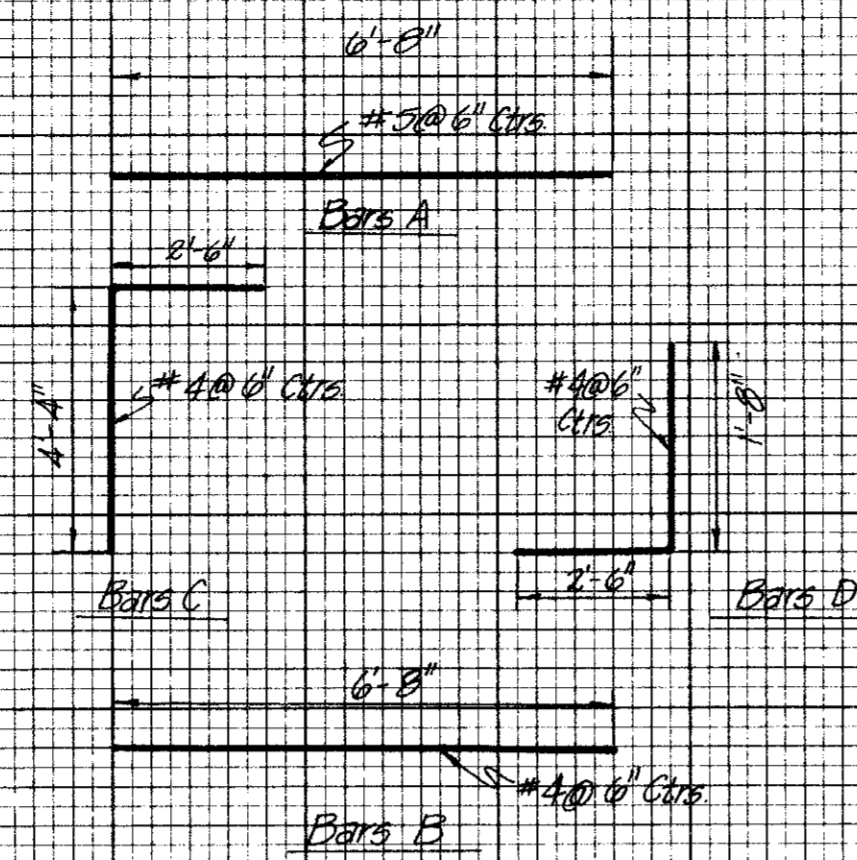
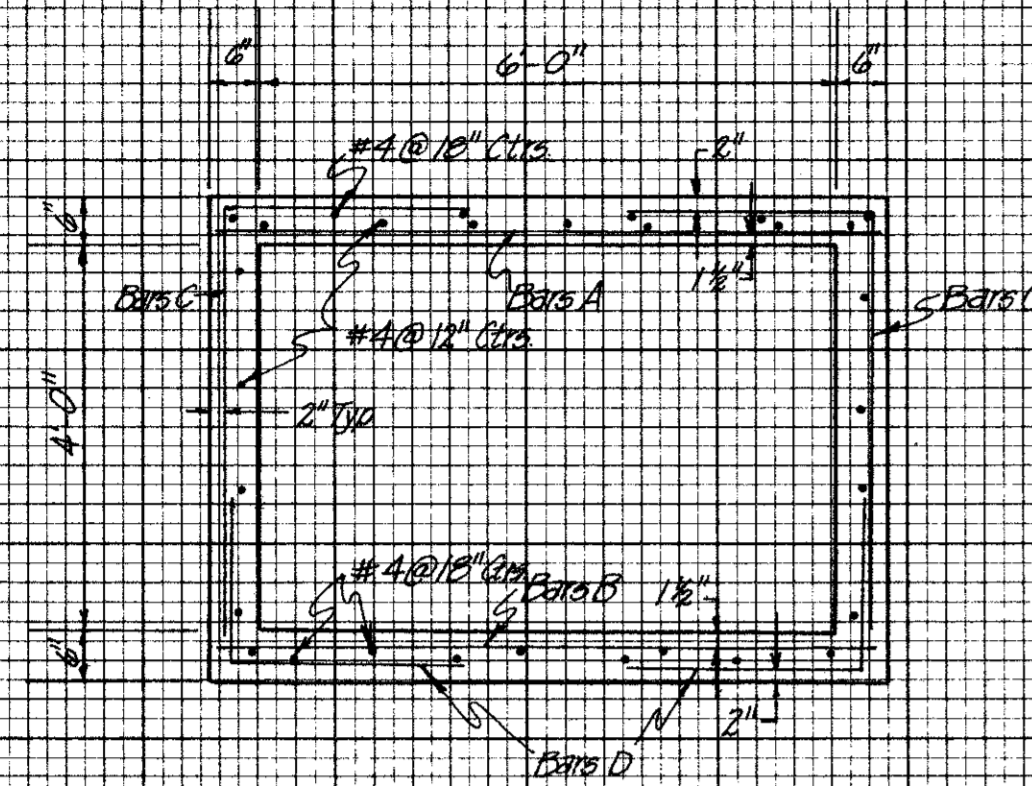
**MISCELLANEOUS TANK DETAILS**

**GINN, INC.**  
Consulting Engineers Dallas, Texas

Designed - RCH	Drawn - ALA	Date - FEB 1986	Job No. - 215
Approved - HWG	Checked - GF	Scale - NOT TO SCALE	Sheet 5 OF 8

FINAL SURVEY BY DATE  
 SURVEYED BY DATE  
 PLOTTED BY DATE  
 NOTE BOOK NO. AREA CHECKED

ORIGINAL SURVEY BY DATE  
 SURVEYED BY DATE  
 PLOTTED BY DATE  
 NOTE BOOK NO. AREA CHECKED



**BAR DETAILS**

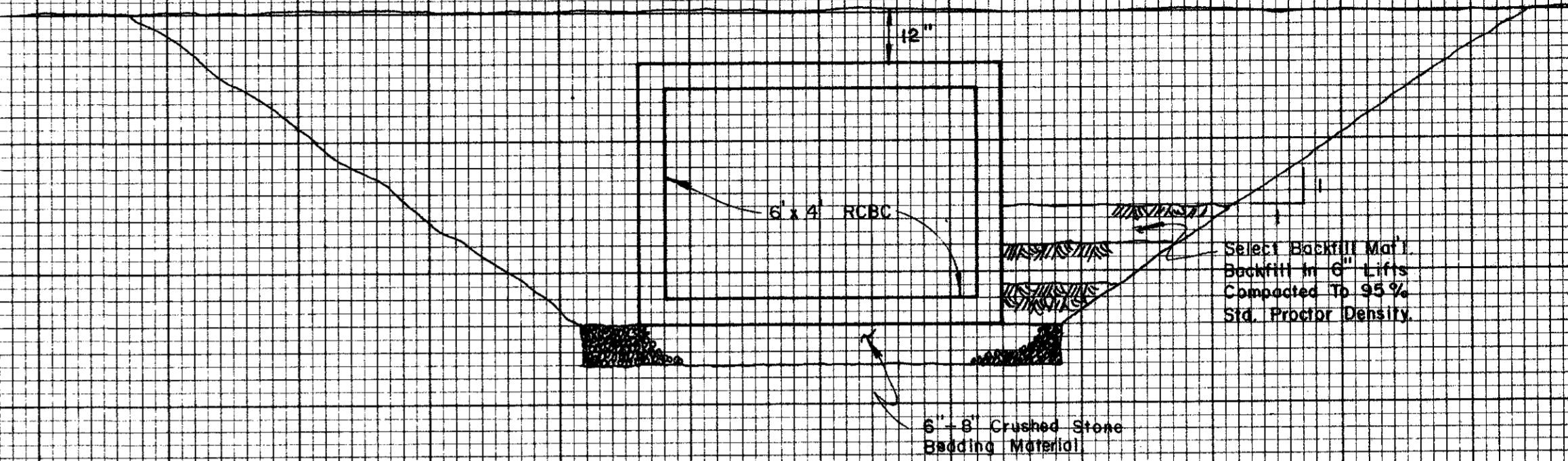
NTS

**Notes:**

- Concrete Box Culvert Construction shall conform to Section 03100 of the Contract Documents
- Dimension Relating to Reinforcing Steel are to Centers of Bars
- Splices for Longitudinal Steel shall be 24" for #4 Bars

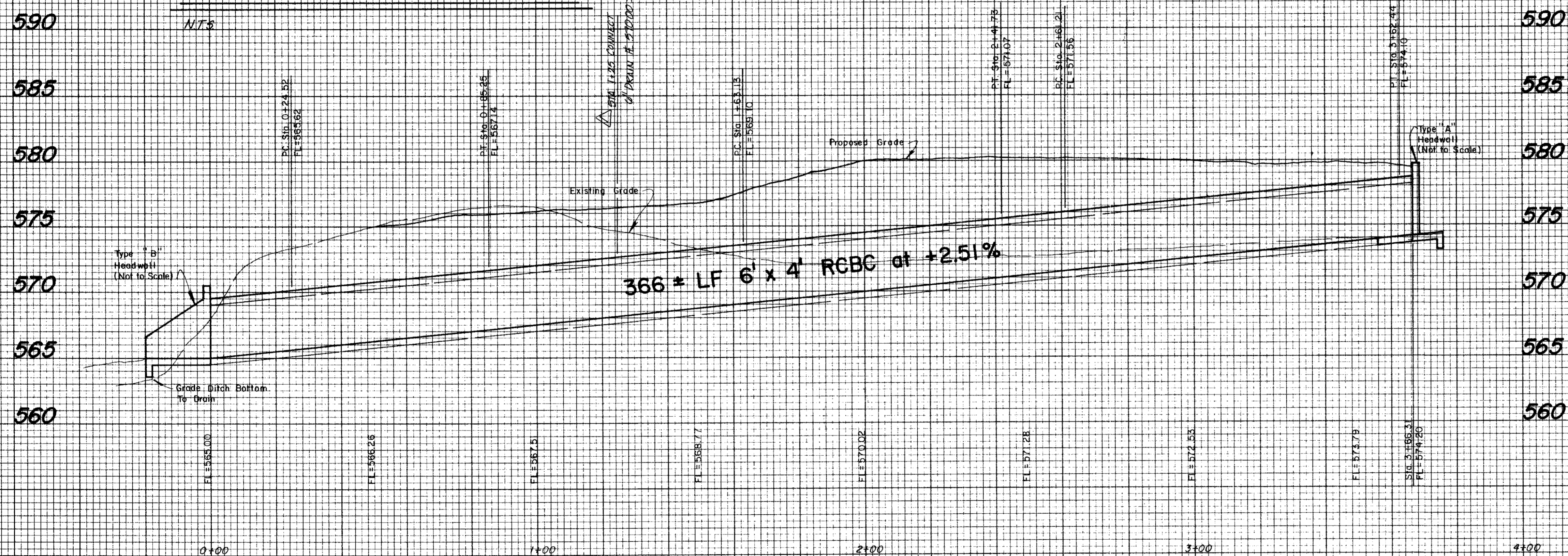
**6' x 4' CAST-IN-PLACE CULVERT**

NTS



**BACKFILL DETAIL**

NTS

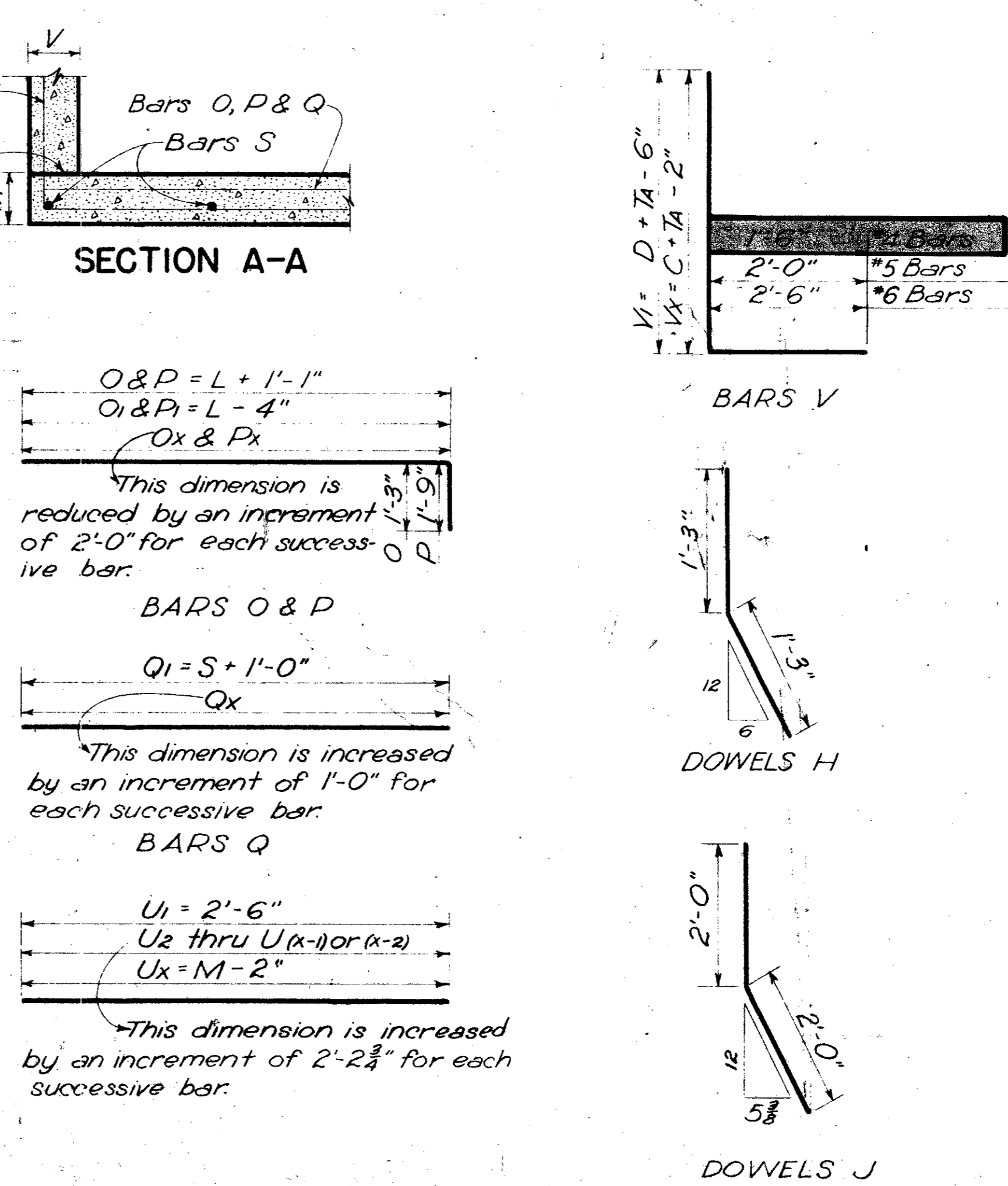
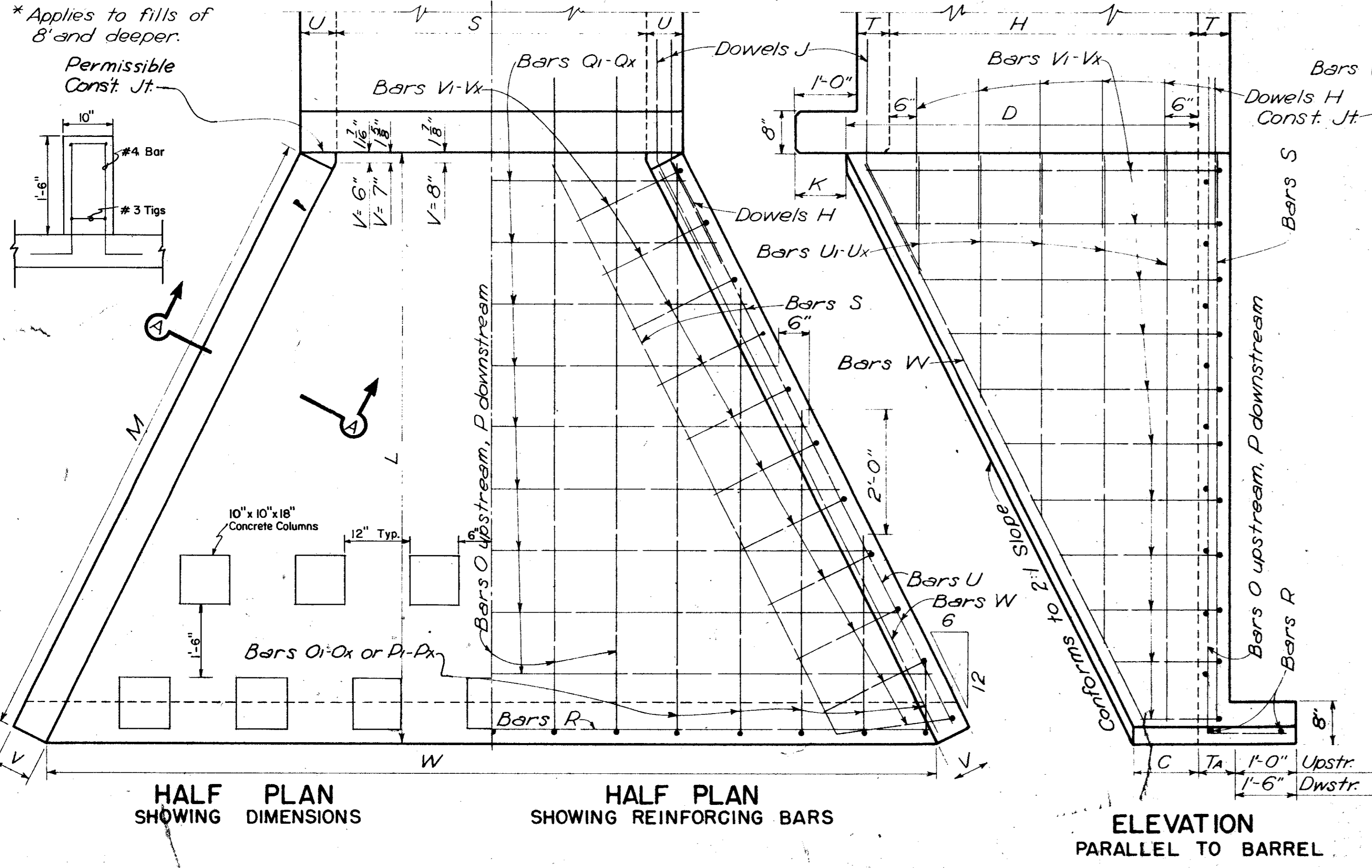


ADD 6" PVC CONNECTION		REVISION		DATE	
TOWN OF ADDISON DALLAS COUNTY, TEXAS					
<b>6 MG CELESTIAL ROAD STORAGE TANK</b>					
<b>BOX CULVERT PROFILE</b>					
<b>GINN, INC</b>					
Consulting Engineers		Dallas, Texas			
Designed: RCH	Drawn: ALA	Date:	Job No.:	DIB	
Approved: HWG	Checked: RCH	Scale: 1/4" = 1'-0"	Sheet: 6	of 8	





CULVERT SIZE	TABLE OF DIMENSIONS										TOTAL QUANTITIES		TABLE OF REINFORCING STEEL FOR 2 WINGS																				CULVERT SIZE																		
	S	H	L	M	V	W	C	D	Ta	MAX FILL			Conc	Steel	Bars H-#4		Bars J-#6		Bars O		Bars O1-Qx		Bars P		Bars P1-Px		Bars Q1-Qx		Bars R		Bars S			Bars U		Bars V-Vx				8 Bars W											
										4'	6'	8'			No	Wt	No	Wt	No	Lgth	Wt	No	Av Lgth	Wt	No	Lgth	Wt	No	Av Lgth	Wt	No	Av Lgth		Wt	No	Av Lgth	Wt	No	Av Lgth	Wt	No	Av Lgth	Wt	No	Av Lgth	Wt	No	Av Lgth	Wt	No	Av Lgth
3 x 2	3'-6"	3'-4"	6"	6'-5 1/2"	1'-0"	2'-8"	6"	-	10"	-	-	10"	1.73	241	12	20	8	48	3	5'-11"	12	4	3'-6"	9	3	6'-5"	13	4	4'-0"	11	6	5'-0"	20	6	6'-6"	17	3	3'-5"	18	8	3'-1"	16	16	#4	12"	3'-6"	37	#4	2'-9"	20	3 x 2



**GENERAL NOTES:**  
 All concrete shall be Class A.  
 Dimensions relating to reinforcing steel are to centers of bars.  
 Steel cover to be 2" from center of outside layer of steel to face of concrete.  
 Chamfer exposed corners 3/4" except as otherwise noted.



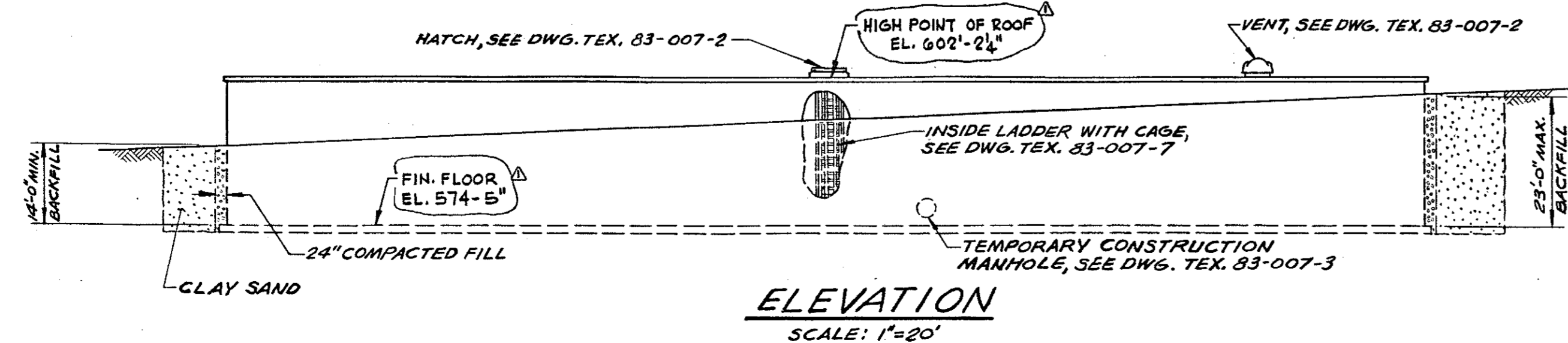
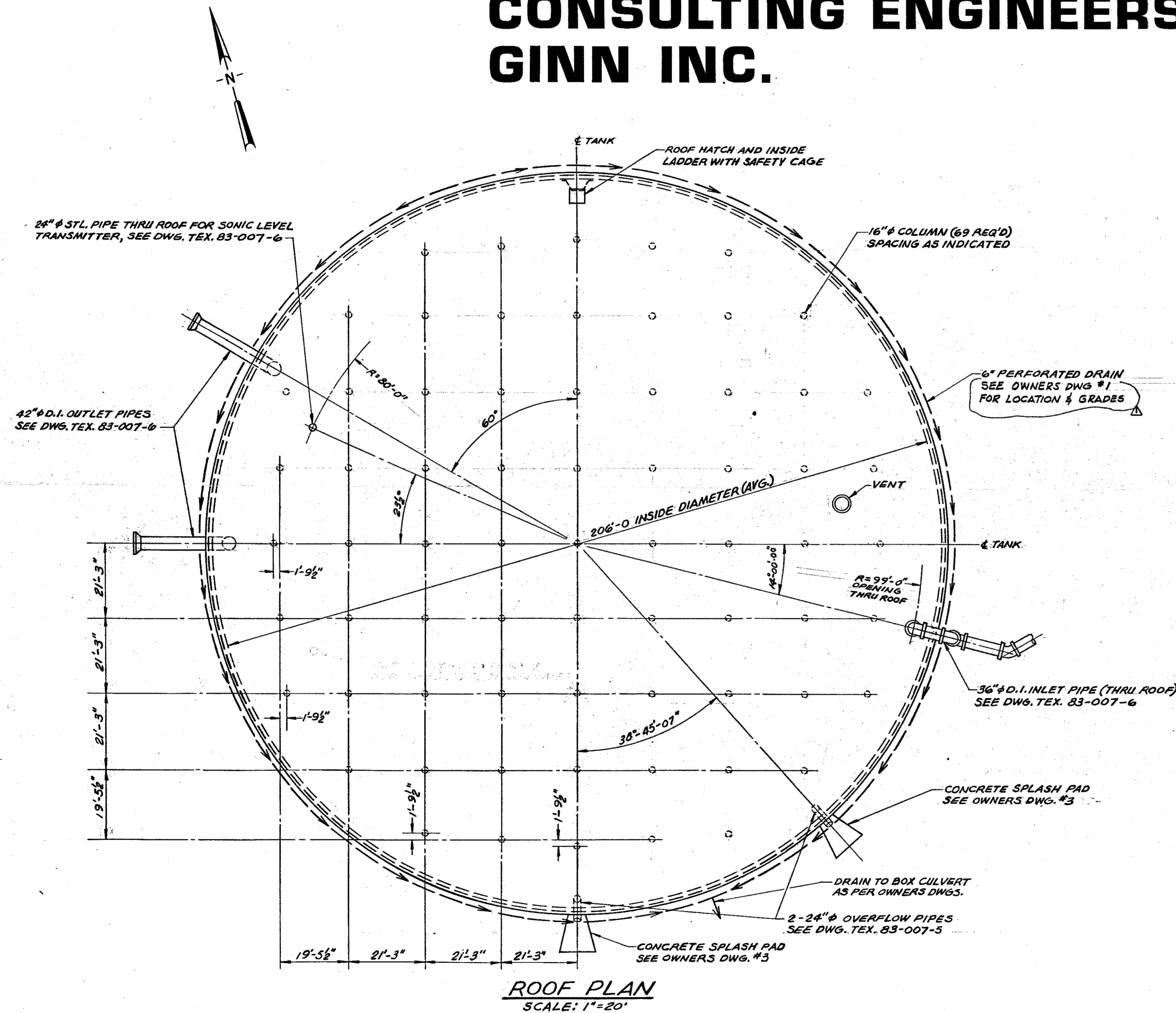
TEXAS HIGHWAY DEPARTMENT  
**TYPE "B"**  
**HEADWALL DETAILS**  
**FWN**

DN - PMA	DRAWING	DATE	FED ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.
Ck. Dn: W.H.	Original	April, 1948	6	TEXAS		8 of 8
Dw: RMM	REV. OCT. 1952					
Ck. Dn: A.B.L.	Rev. Jan. 1959					
Tr: A.B.P.	Rev. Nov. 1961					
Ck. Tr: RMM	Rev. Nov. 1967					215

# 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



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

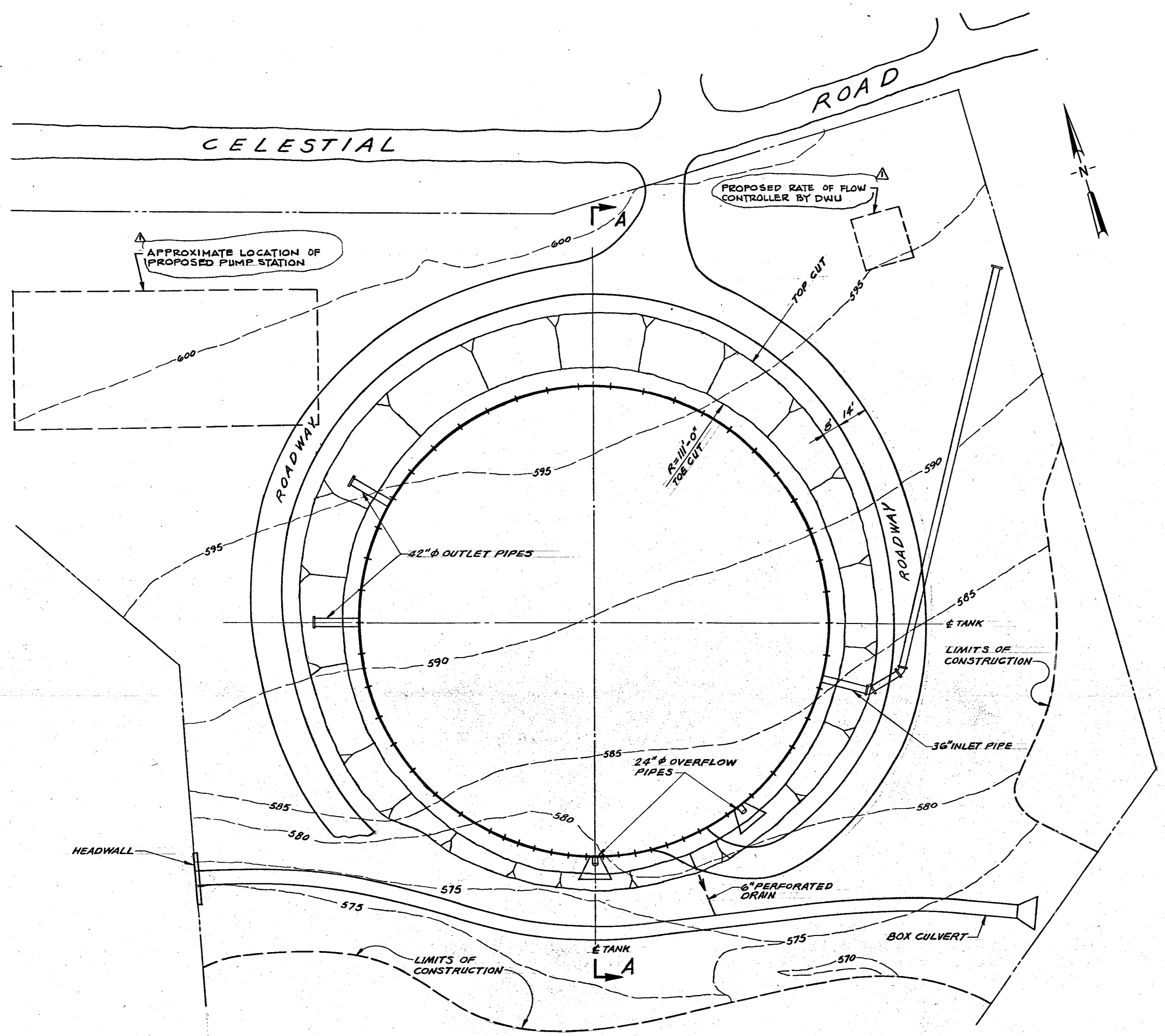
INSPECTION REVIEW	HOLD	APPROVED	REVIEWED BY
BUILDING			
PLUMBING			
ELECTRICAL			
MECHANICAL			
CIVIL			
HEALTH			

DEPARTMENTAL REVIEW	HOLD	APPROVED	REVIEWED BY
FIRE			
ENGINEERING			
UTILITIES			
STREETS			
LANDSCAPE			

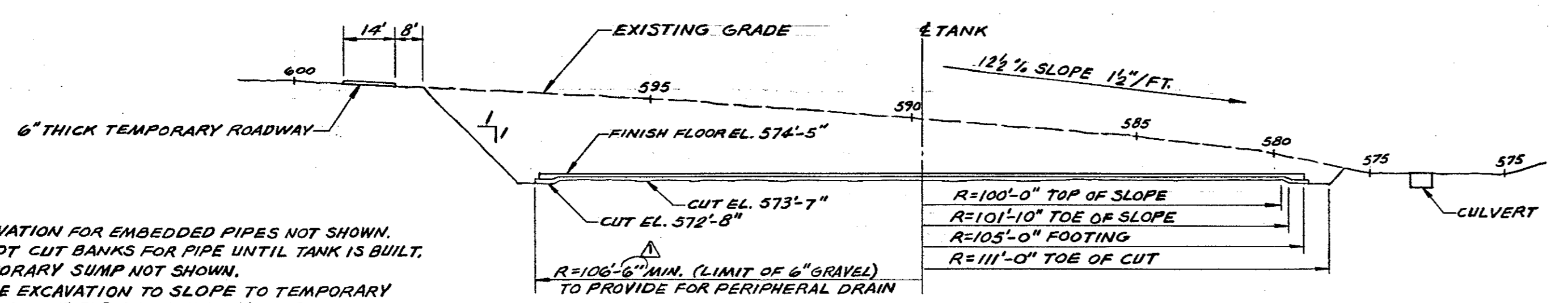
VERNON SAYS REVISION NOT NEEDED TO REVEAL BRASS TANK - PHONE 5-17-86

DRAWINGS ISSUED	
DATE	BY
5/13/86	RAO

REVISIONS					PRELOAD		WORKING DRAWING			
NO.	DATE	DESCRIPTION	BY	CKD	839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530		ONE 6.0 M.G. WATER STORAGE TANK ADDISON, TEXAS			
1	5/13/86	REV. PERF. DRAIN; ADDED ELEV.'S ON TANK ELEV.	E	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.		GENERAL ARRANGEMENT			
							DRAWN: PV	SCALE: AS NOTED	CONTRACT NUMBER: 86 PE 004	
							DESIGNED: FD	APPROVED:	DRAWING NUMBER: TEX	
							CHECKED: RAO	DATE: 4-24-86	DRAWING NUMBER: 83-007-1	



**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-289".

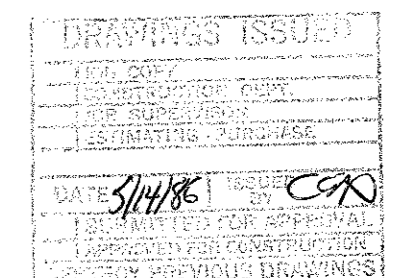
REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
1	7/3/86	ADDED PROPOSED PUMP STATION & FLOW CONTROLLER	E	RAO



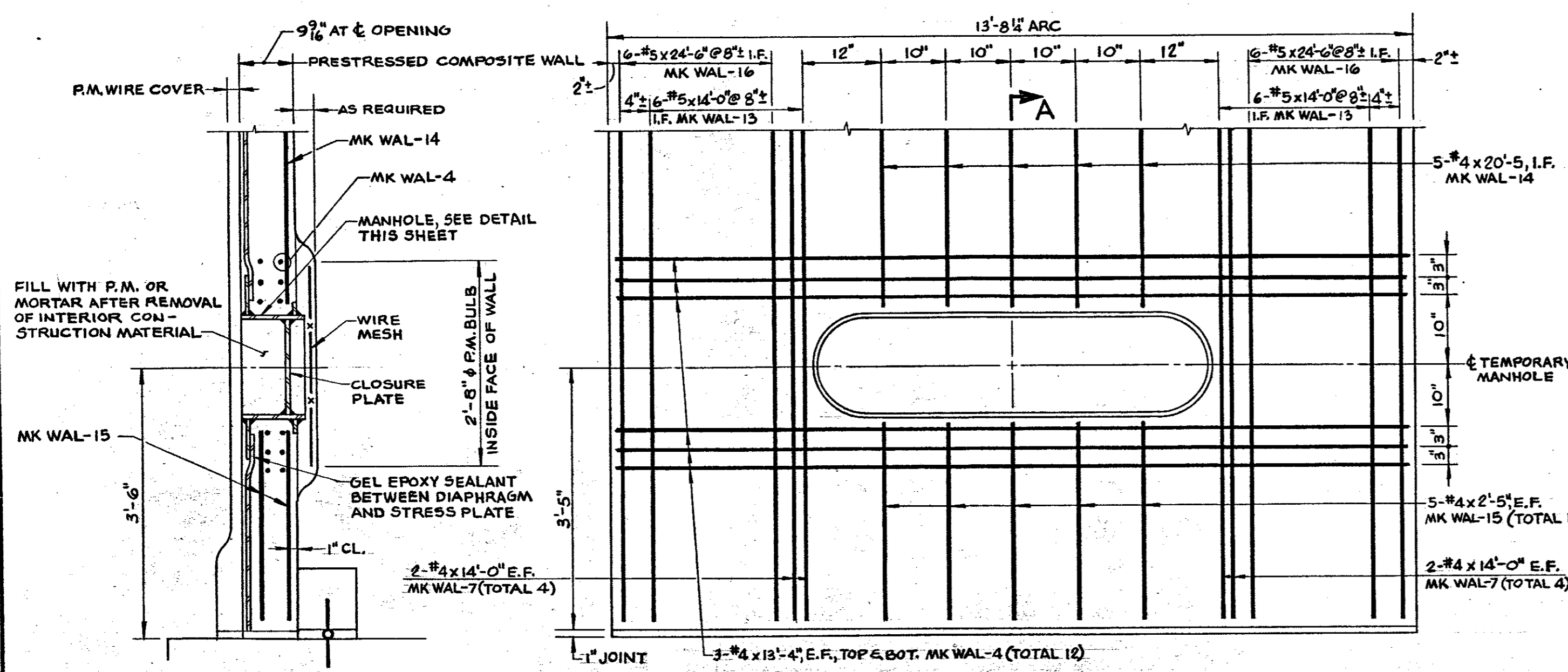
839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530  
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**WORKING DRAWING**  
**ONE 6.0 M.G. WATER STORAGE TANK**  
**ADDISON, TEXAS**

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



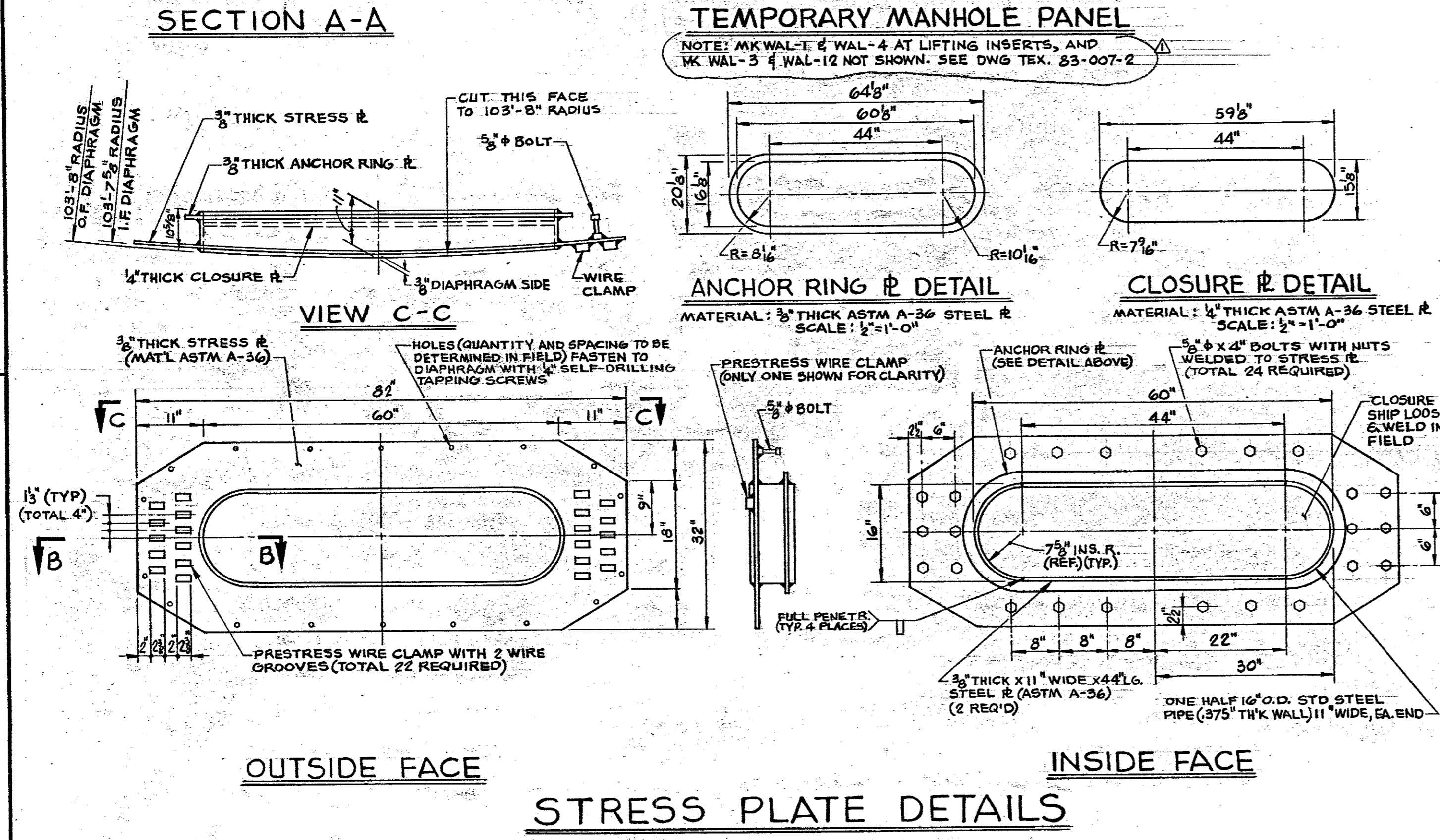




### MISC. IRON SCHEDULE

MS	QUANTITY		SIZE	LENGTH	WT. (LBS.)	SKETCH	LOCATION
	DESIGN	ORDER					
ANC-2	10.8	11	1 1/2" x 1 1/2" L (1.5 PLS)	20'-0"	390	FORMULA: TOTAL NO. WALS = 10 WALS = 12 BARS @ 58 x 20 (TO NEXT HIGHER 20')	PANEL JOINTS
ANC-3	8	8	3/4" φ	4'-7"	55	8" STAINLESS STEEL	ROOF AT OVER FLOW
ANC-4	234	239	1/2" φ	1'-4"	212	2 1/2" THREAD	WATER STOP ENCASMENT
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" φ 6" THREAD	ROOF FOR WIREWINDER
ANC-9	4	4	1" φ	6'-4"	68	2" φ 6" 2'-0"	ROOF FOR WIREWINDER
ANC-10	8	9	5/8" φ	4'-4"	41	4'-4" 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 #
- ### TEMPORARY MANHOLE PRESTRESSING PROCEDURE
- Weld bottom half of clamps to stress plate using E70XX electrodes. All welding shall be in accordance with 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.



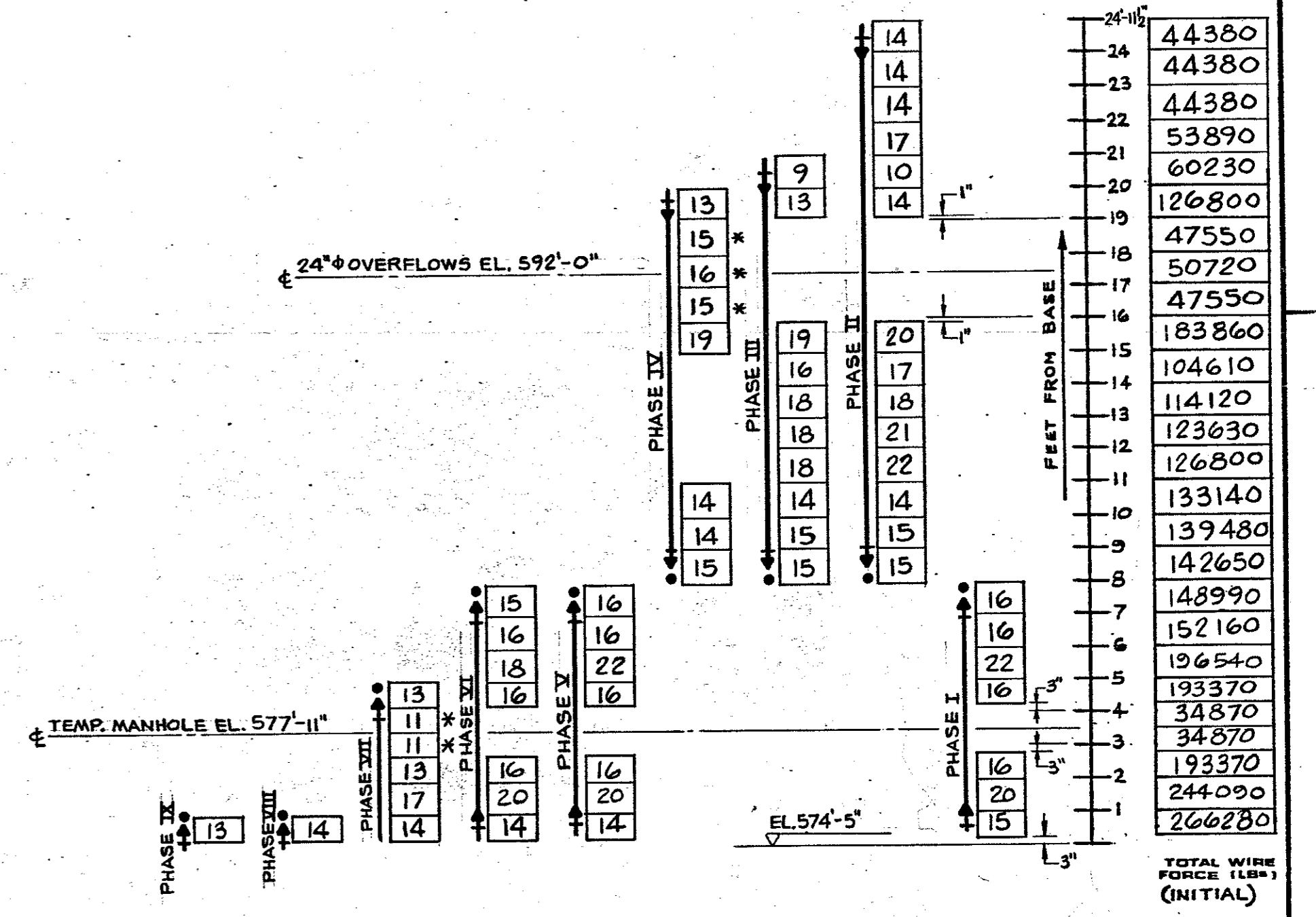
### PRESTRESS WIRE QUANTITIES

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	45132			963	TOTAL WRAPS
TOTAL		45132			45132	TOTAL WEIGHT

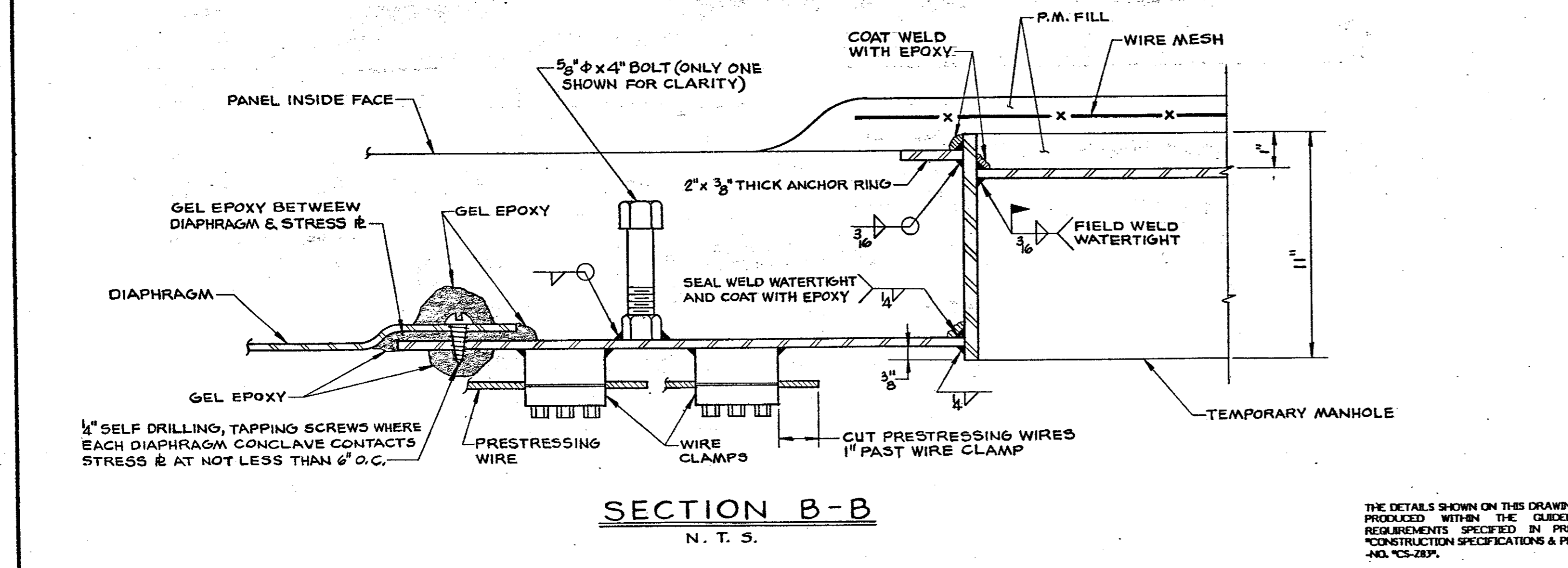
WEIGHT OF WIRES / LFT 0.164 = 0.07188

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

TOTAL OVERALL HEIGHT OF PRESTRESS PHASES = 73'



- 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

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
1	5/10/86	REV. NOTE - TEMP. MANHOLE PANEL	E	RAO

**PRELOAD**

839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

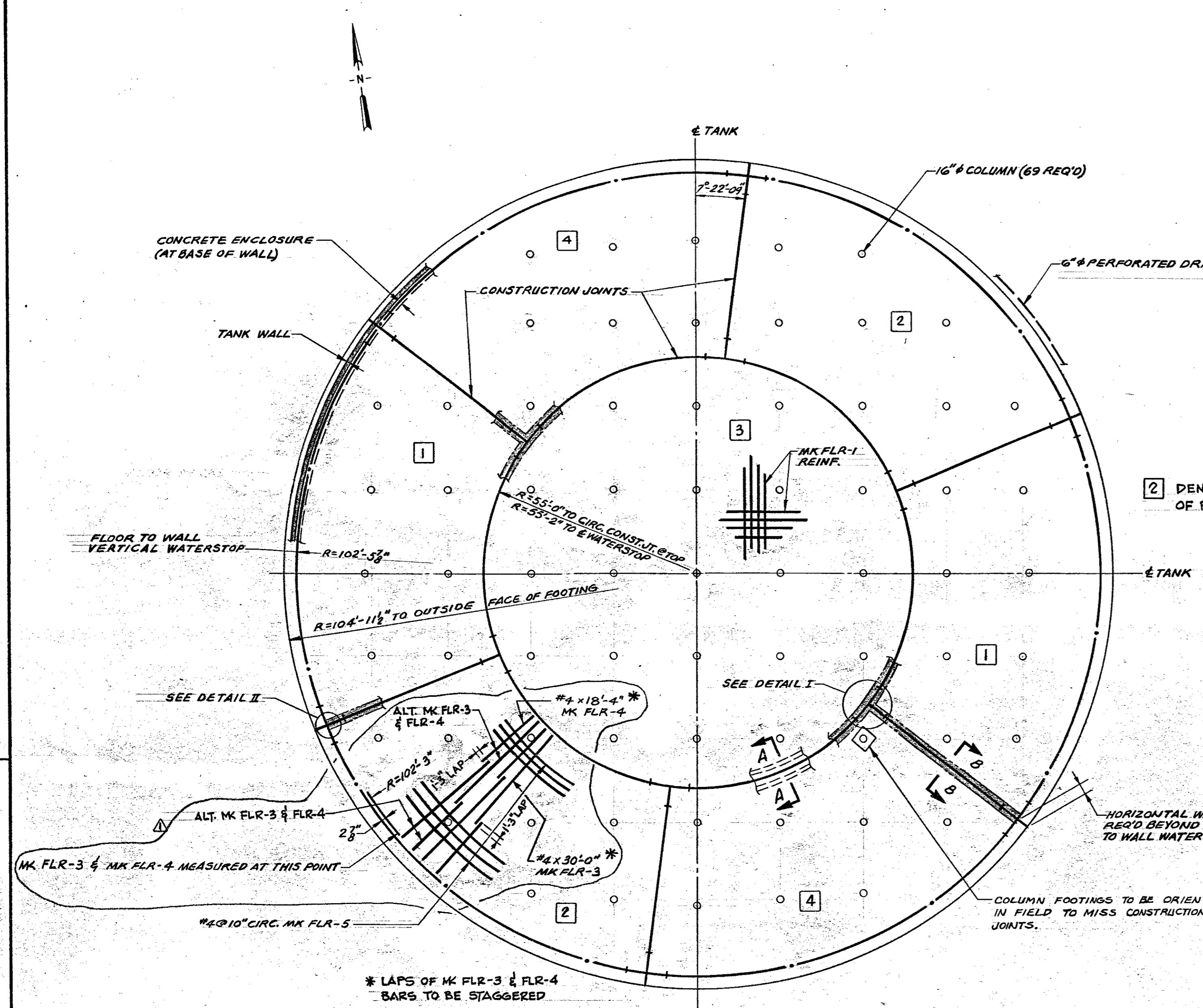
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DRAWN: PV SCALE: NONE CONTRACT NUMBER: 86 PE004

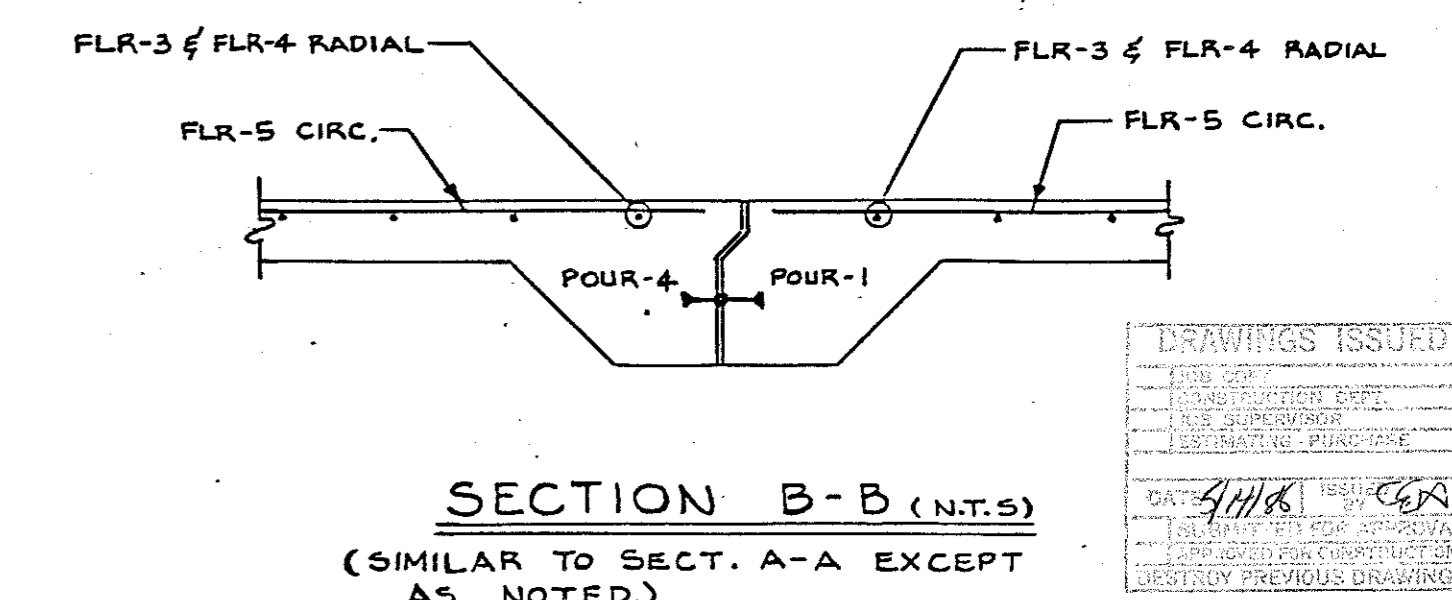
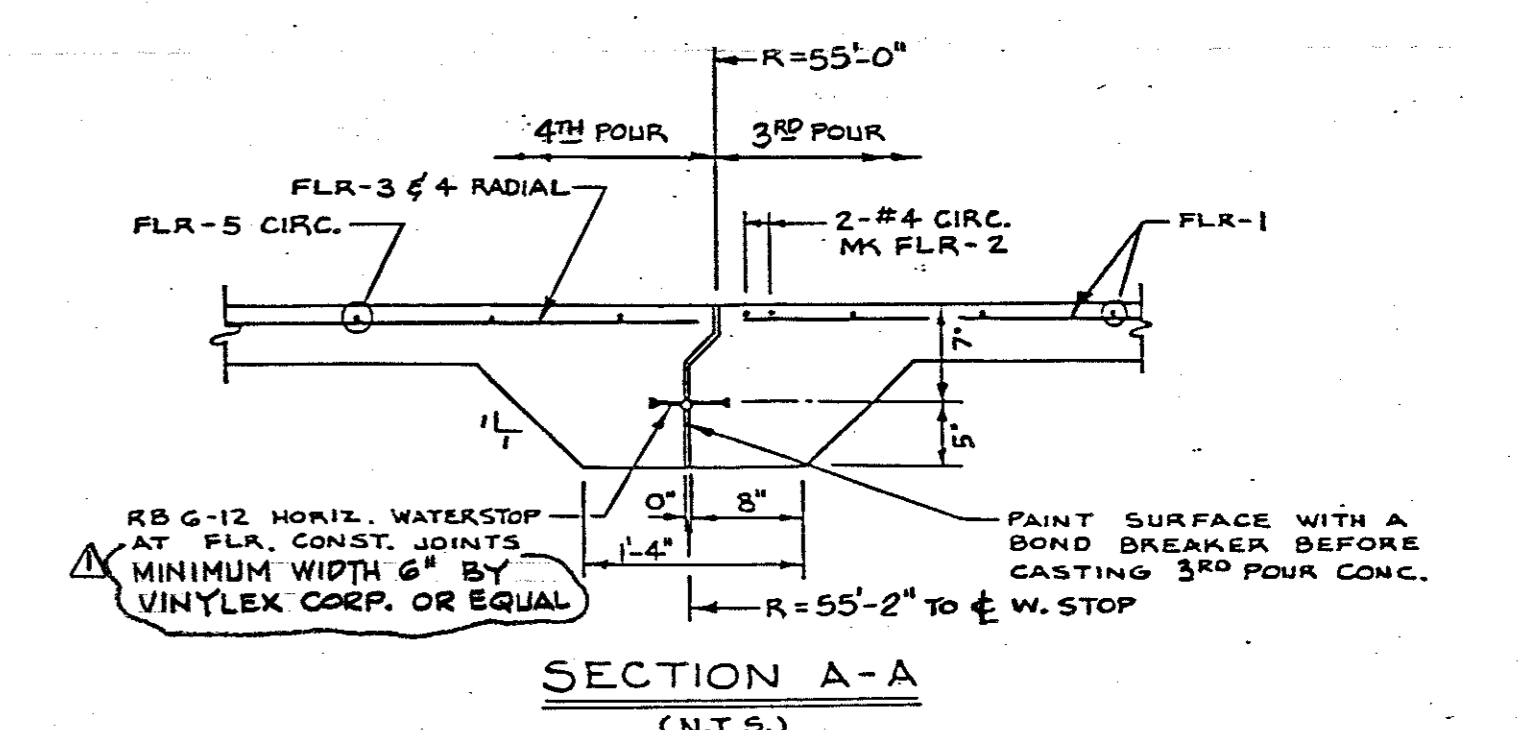
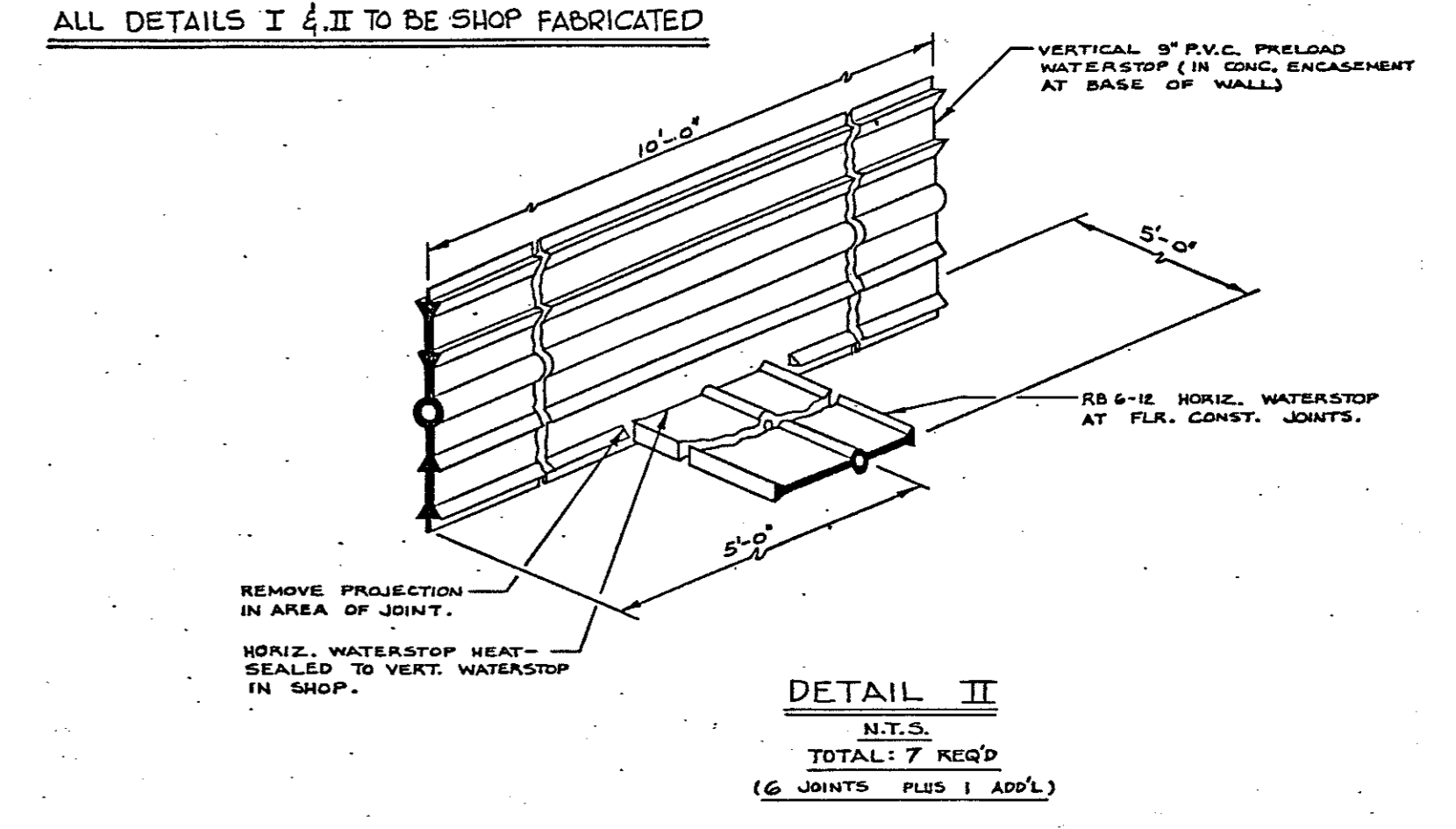
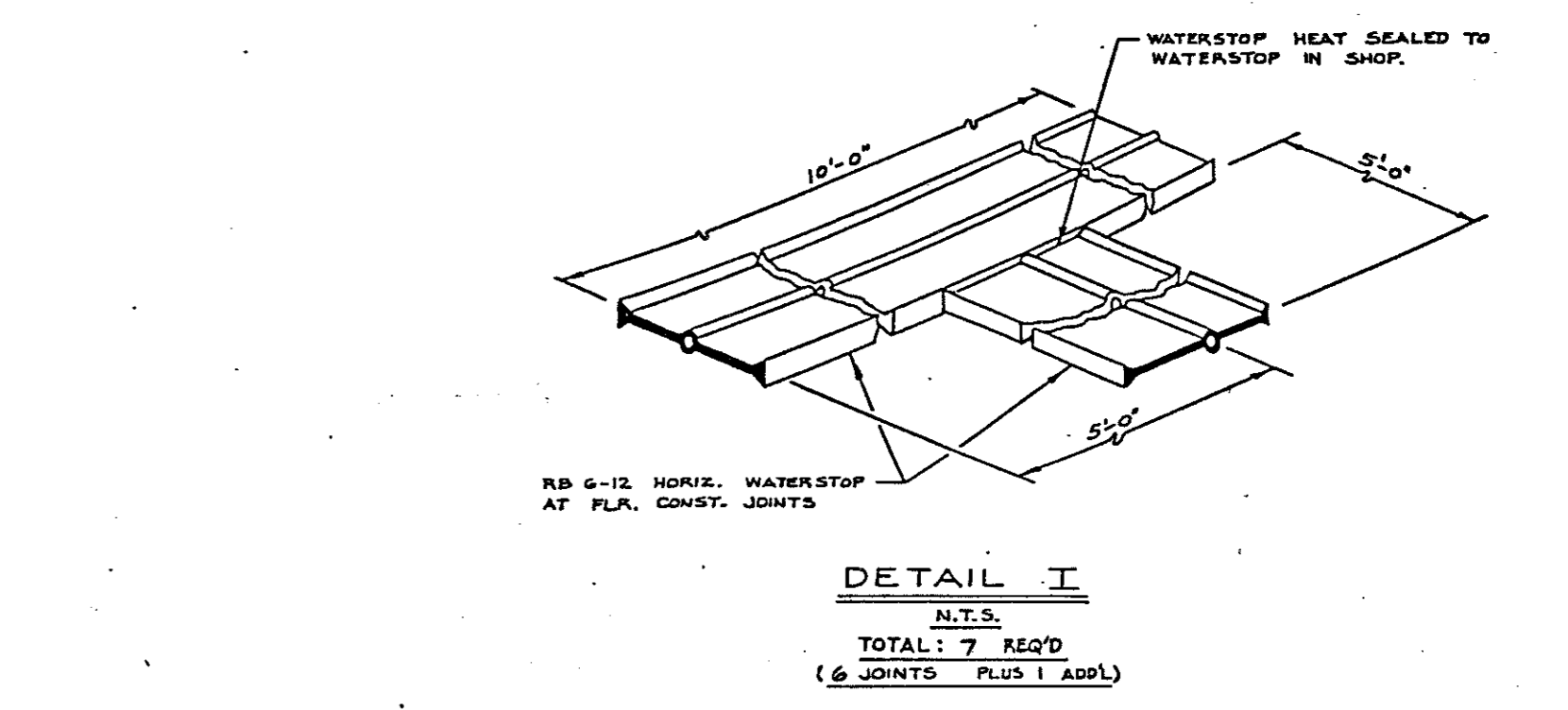
DESIGNED: FD MTO: DRAWING NUMBER: 83-007-3

CHECKED: RAO DATE: 4-24-86

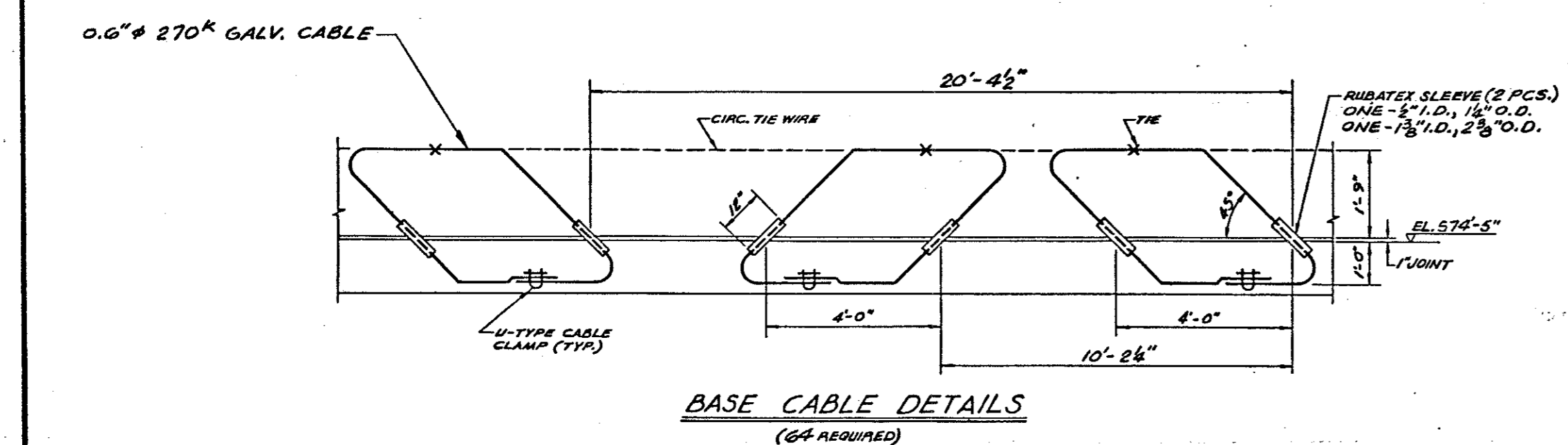
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CONCRETE QUANTITIES	
ITEM	CU. YDS.
FLOOR & FOOTING	540.6
PIPE ENCASEMENT	15.9
WALL PANELS	381.8
CURB	15.0
COLUMN FOOTINGS	54.6
COLUMNS	99.8
ROOF SLAB	793.4
TOTAL YARDAGE (NEAT)	1901.1



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



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	CHKD
1	5/13/86	REV. FLOOR REINF. & HORIZ. WATERSTOP (SECT. A-A)	E	RAO

**PRELOAD**

839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

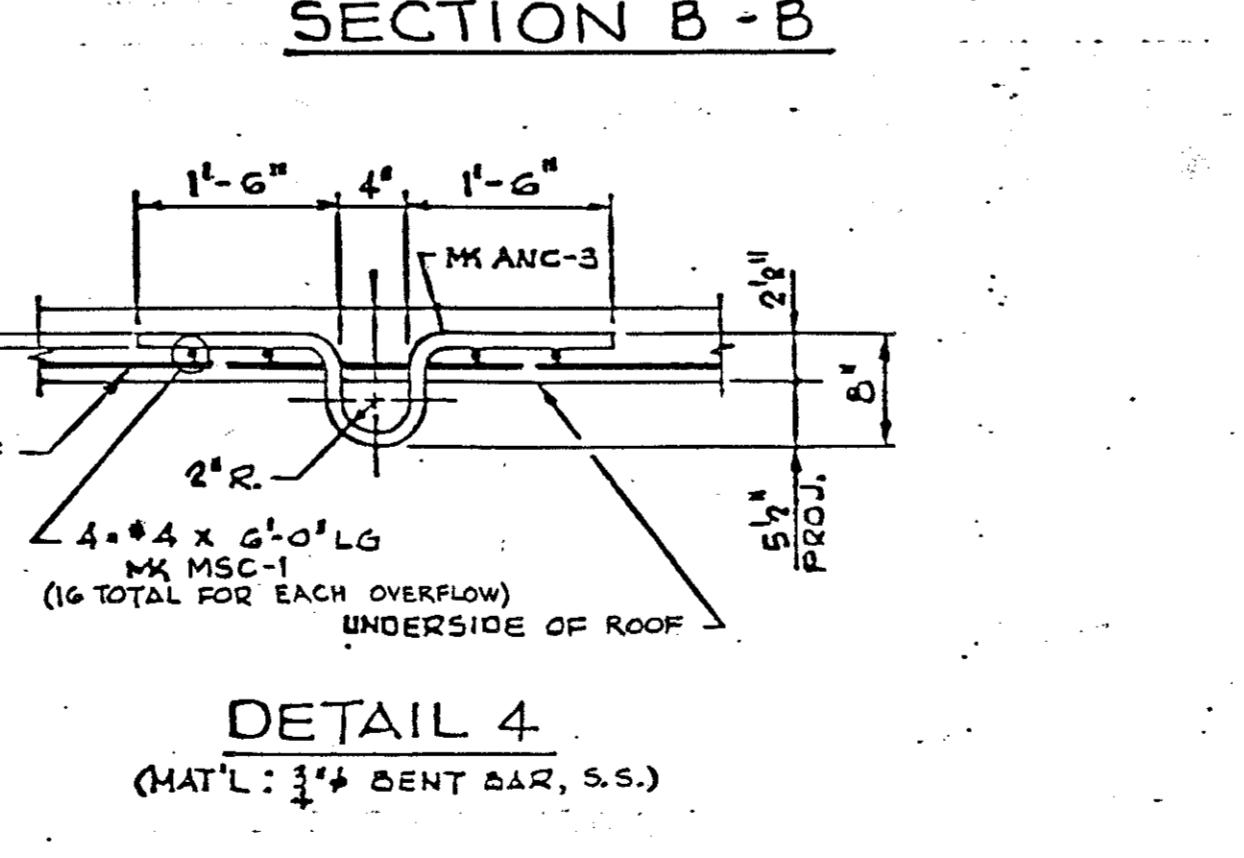
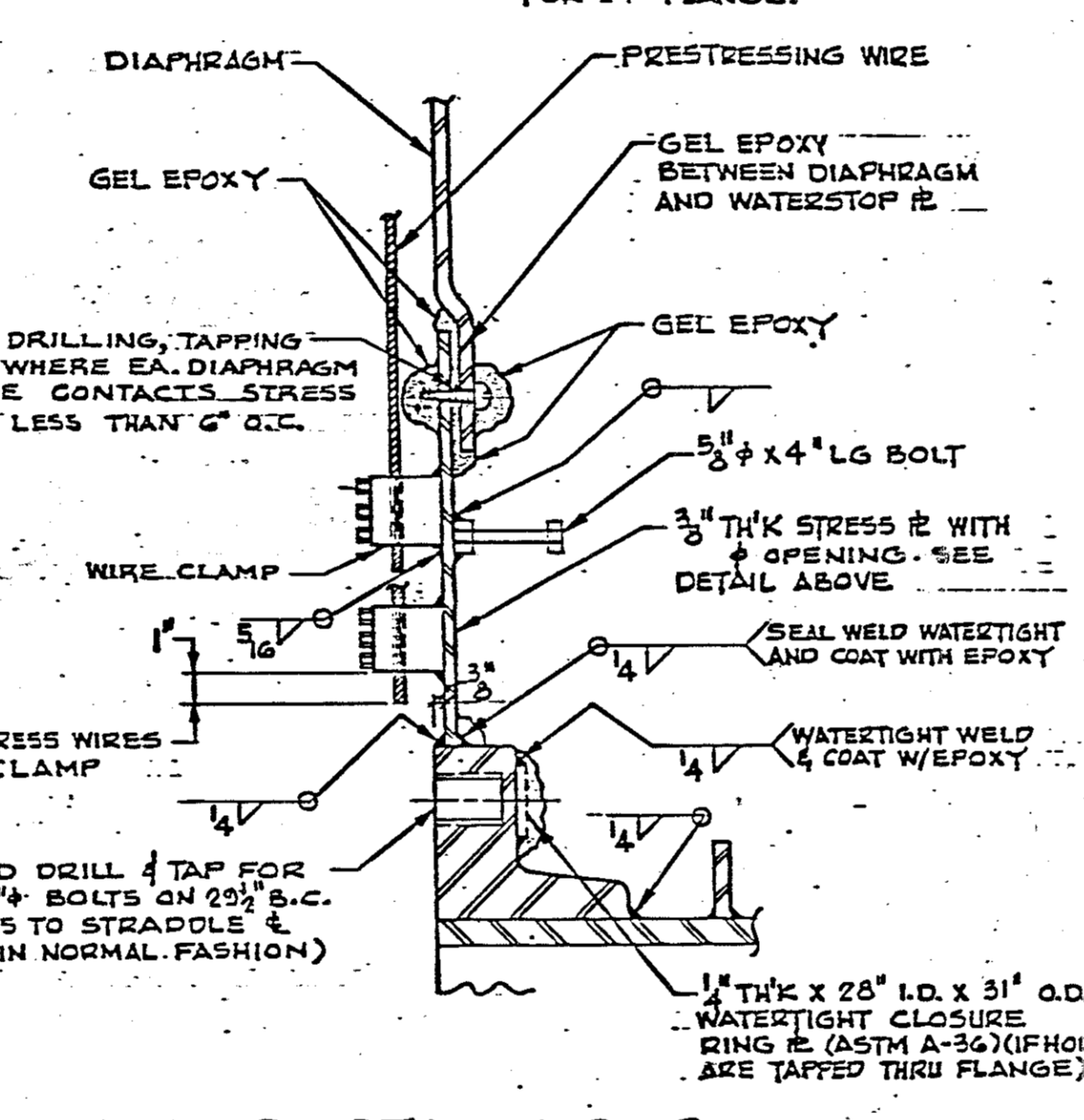
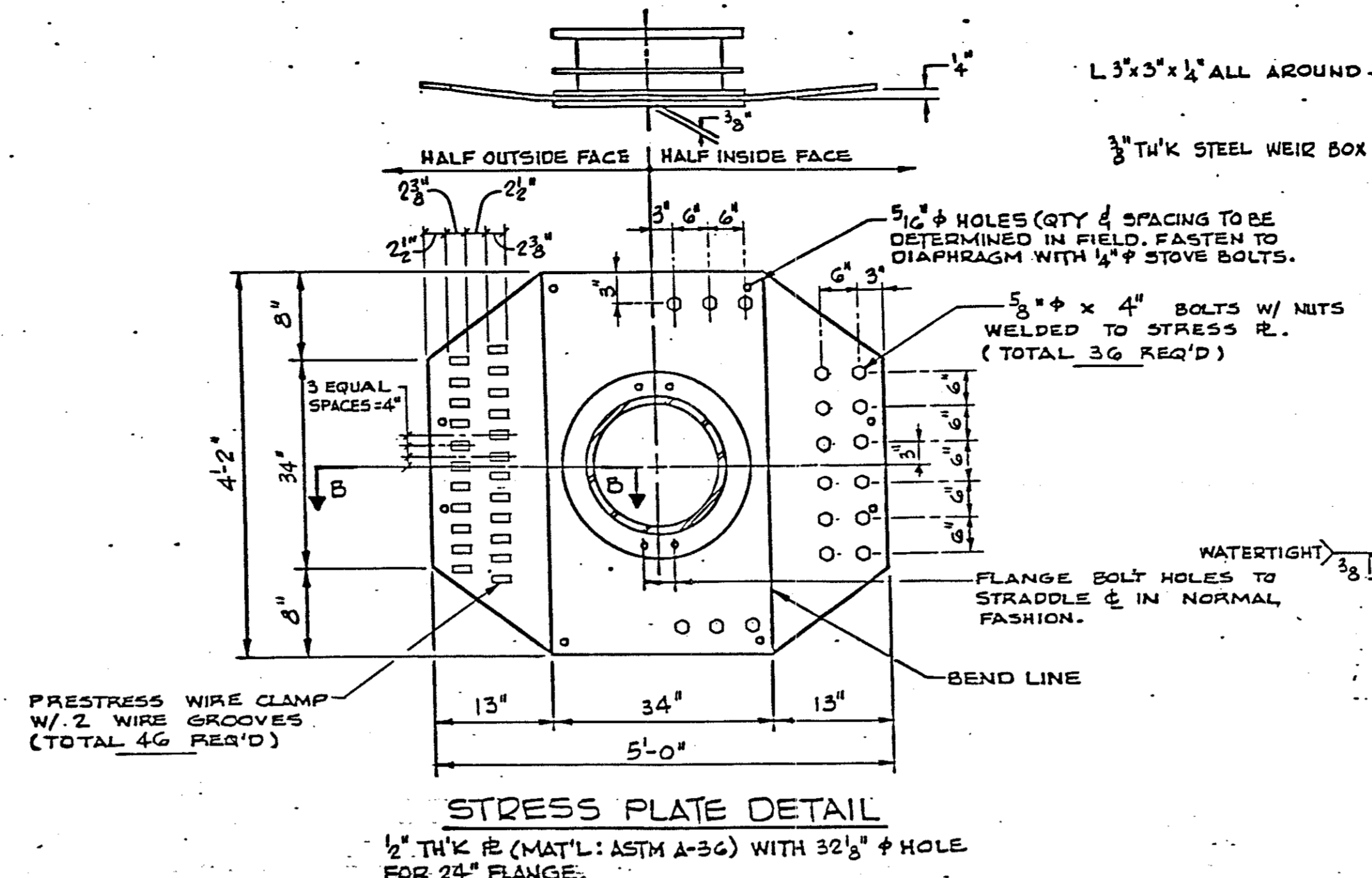
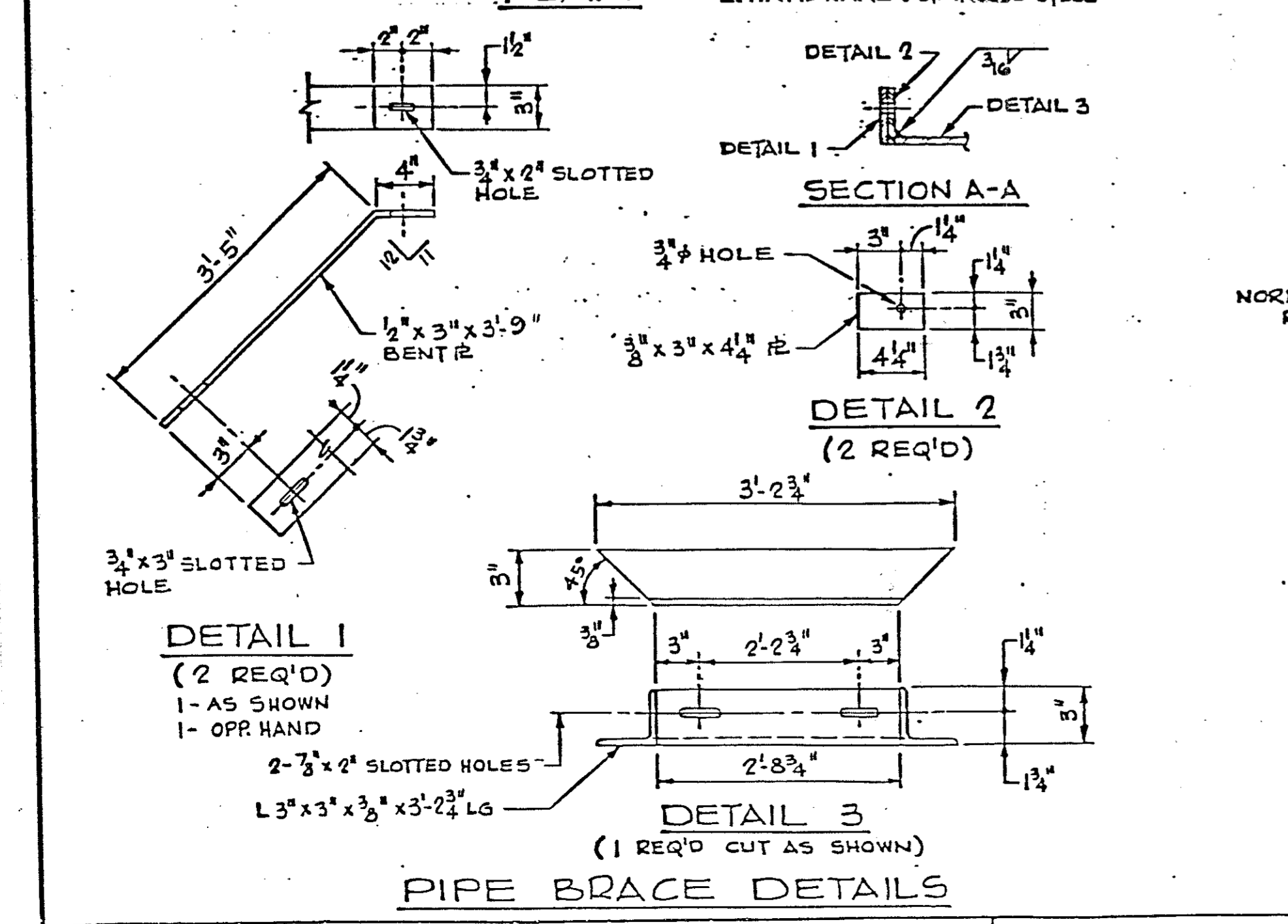
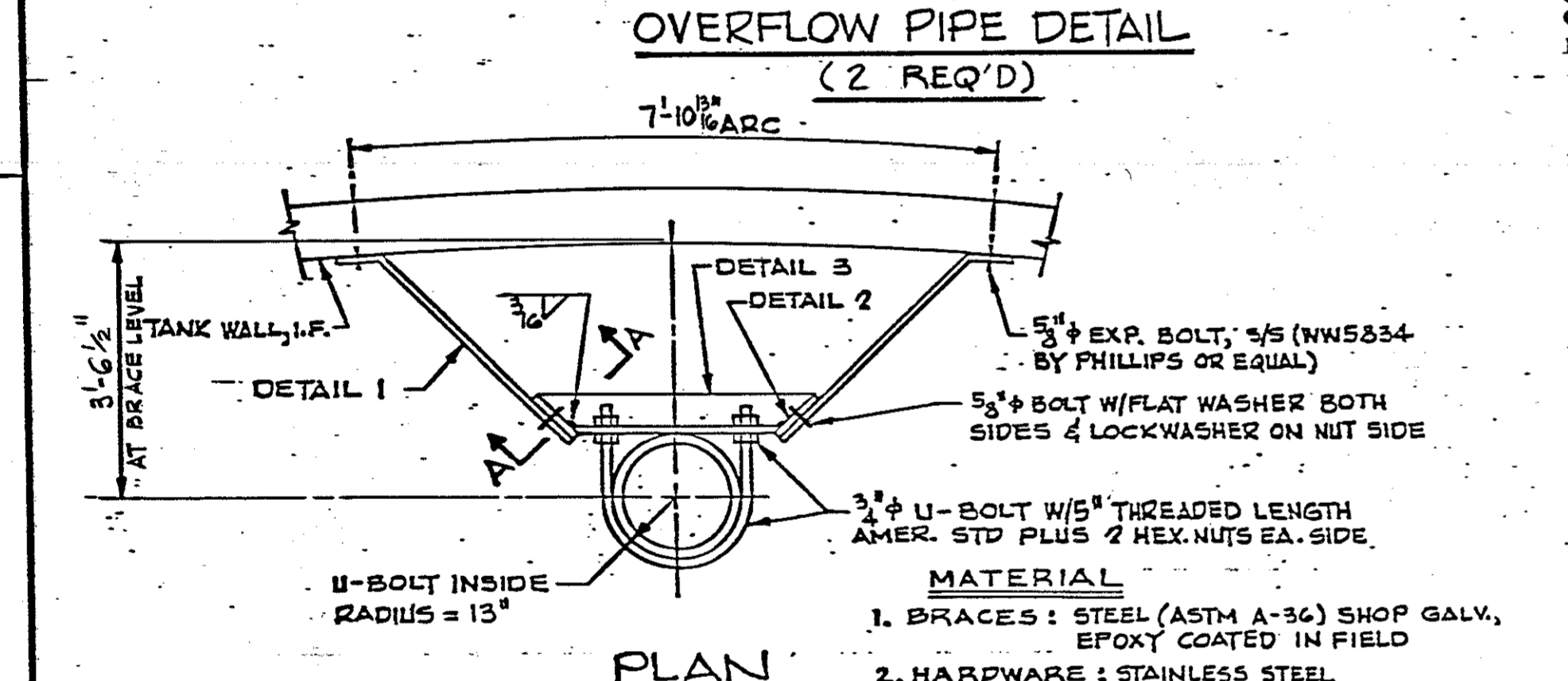
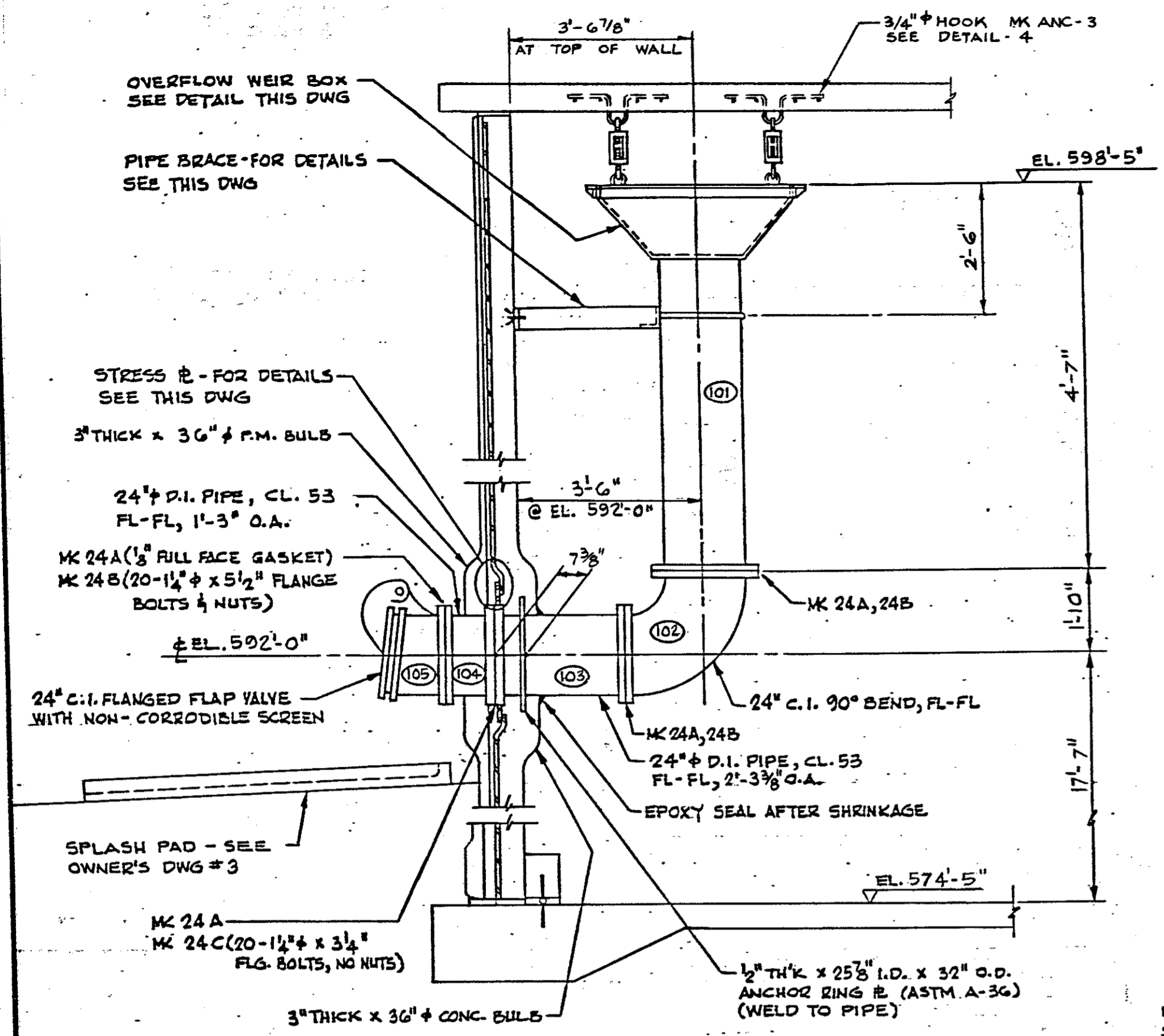
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**WORKING DRAWING**  
**ONE 6.0 M.G. WATER STORAGE TANK**  
**ADDISON, TEXAS**

**FLOOR DETAILS**

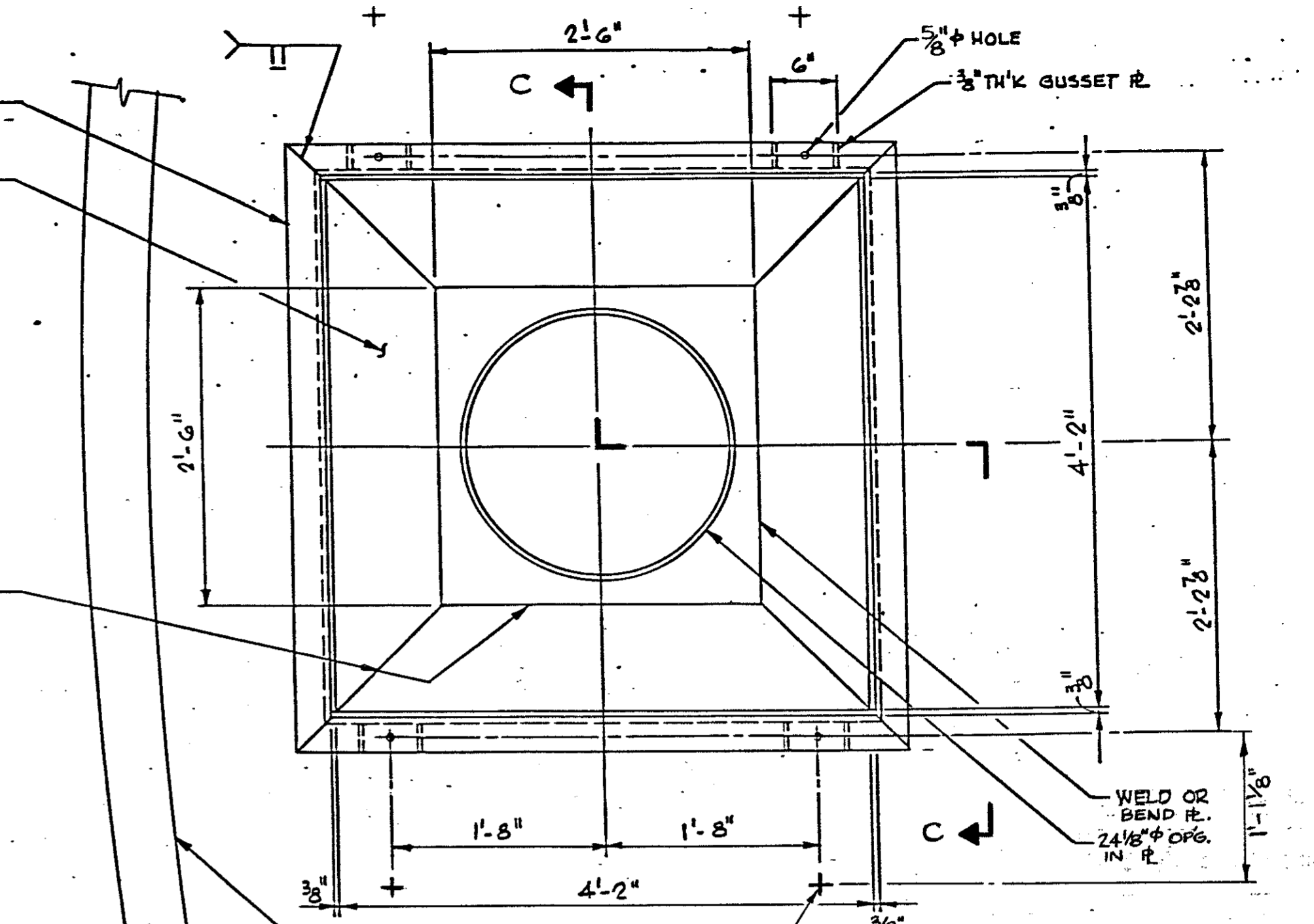
DRAWN: PV	SCALE: N.T.S.	CONTRACT NUMBER: 86 PE 004
DESIGNED: FD	APPROVED:	DRAWING NUMBER: 83-007-4
CHECKED: RAO	DATE: 4-24-86	

DATE	ISSUED	BY
5/13/86	REVISED	RAO



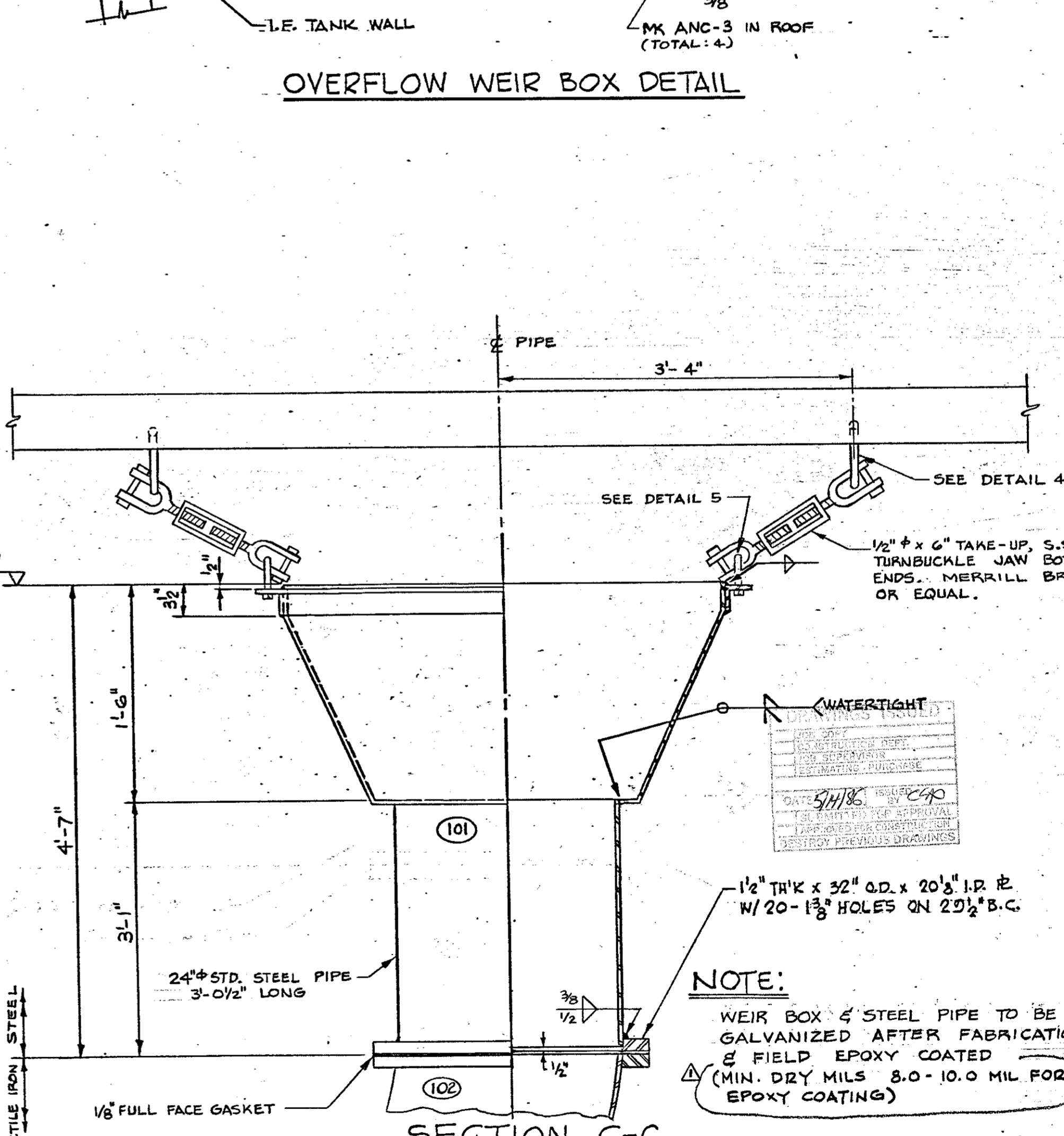
**PIPING NOTES:**

1. ALL DUCTILE IRON PIPING TO HAVE 2 COATS OF EPOXY (ONE SHOP & ONE FIELD COAT) ON OUTSIDE FACE AND GEMENT 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 E70XX ELECTRODES. ALL WELDING SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.1-81.
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\"/>



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

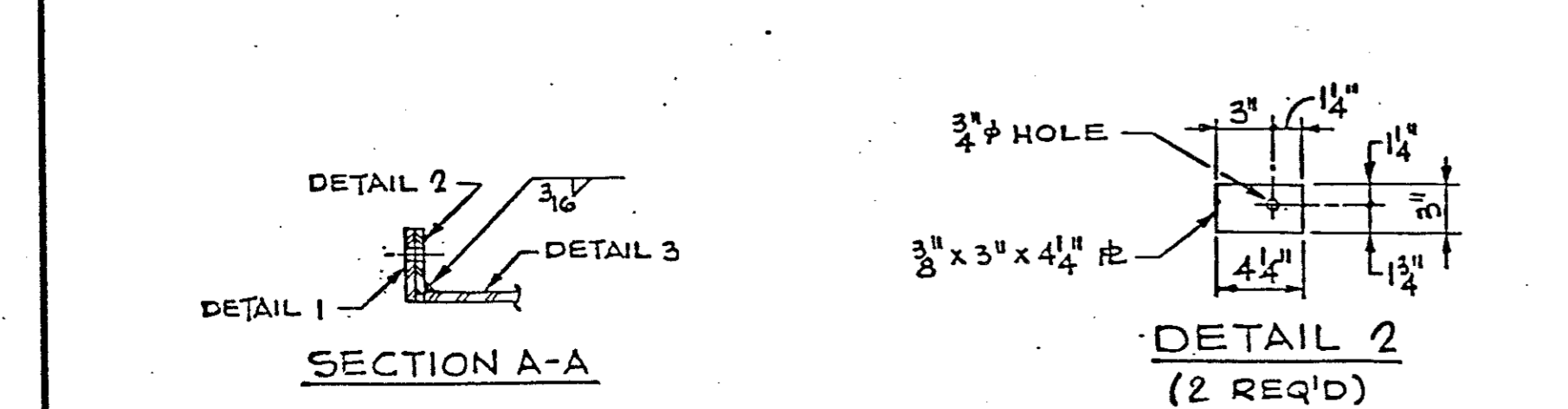
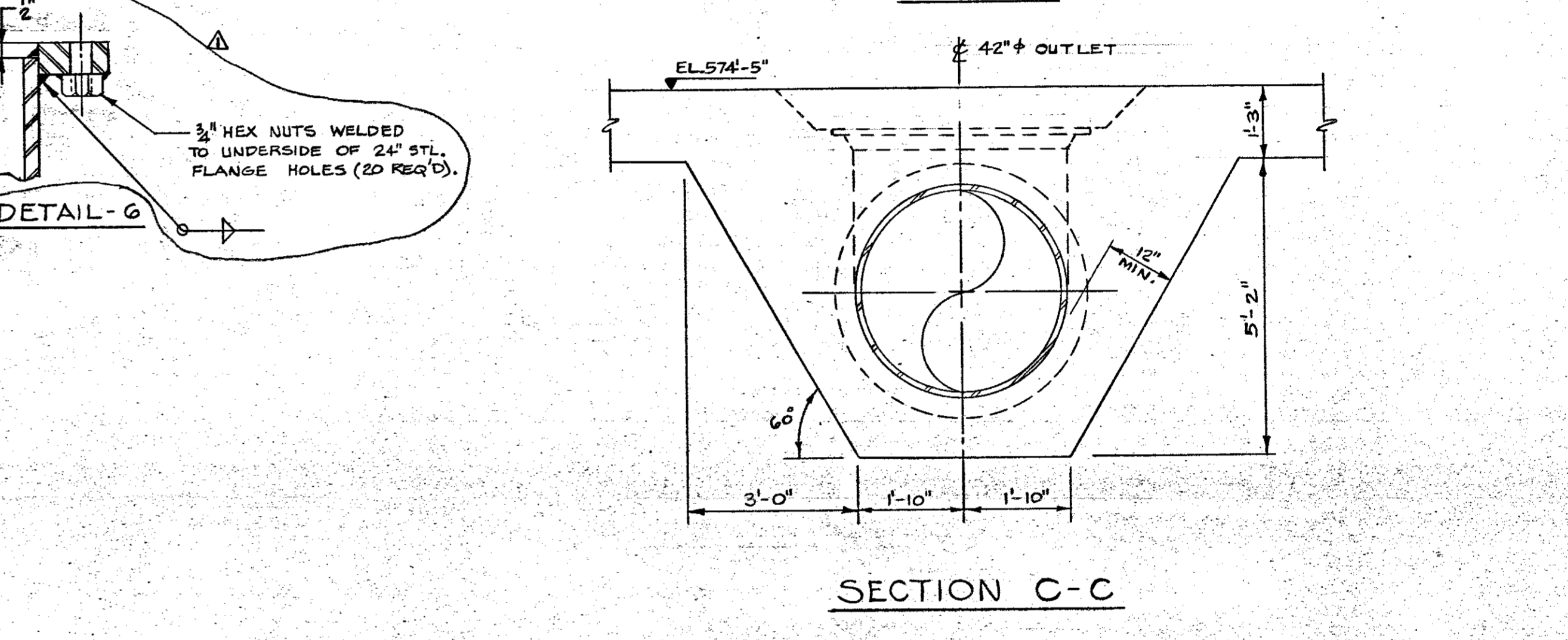
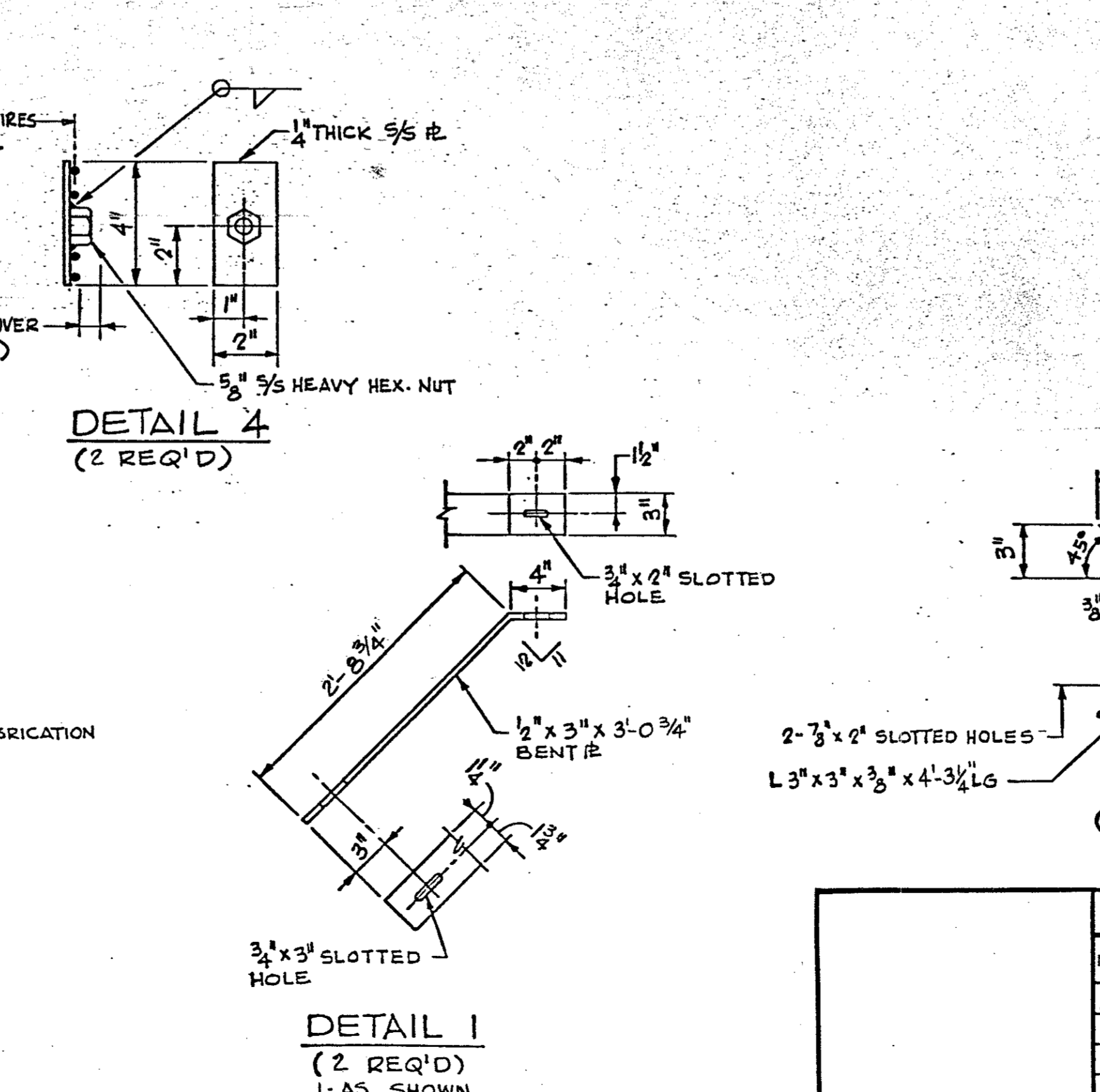
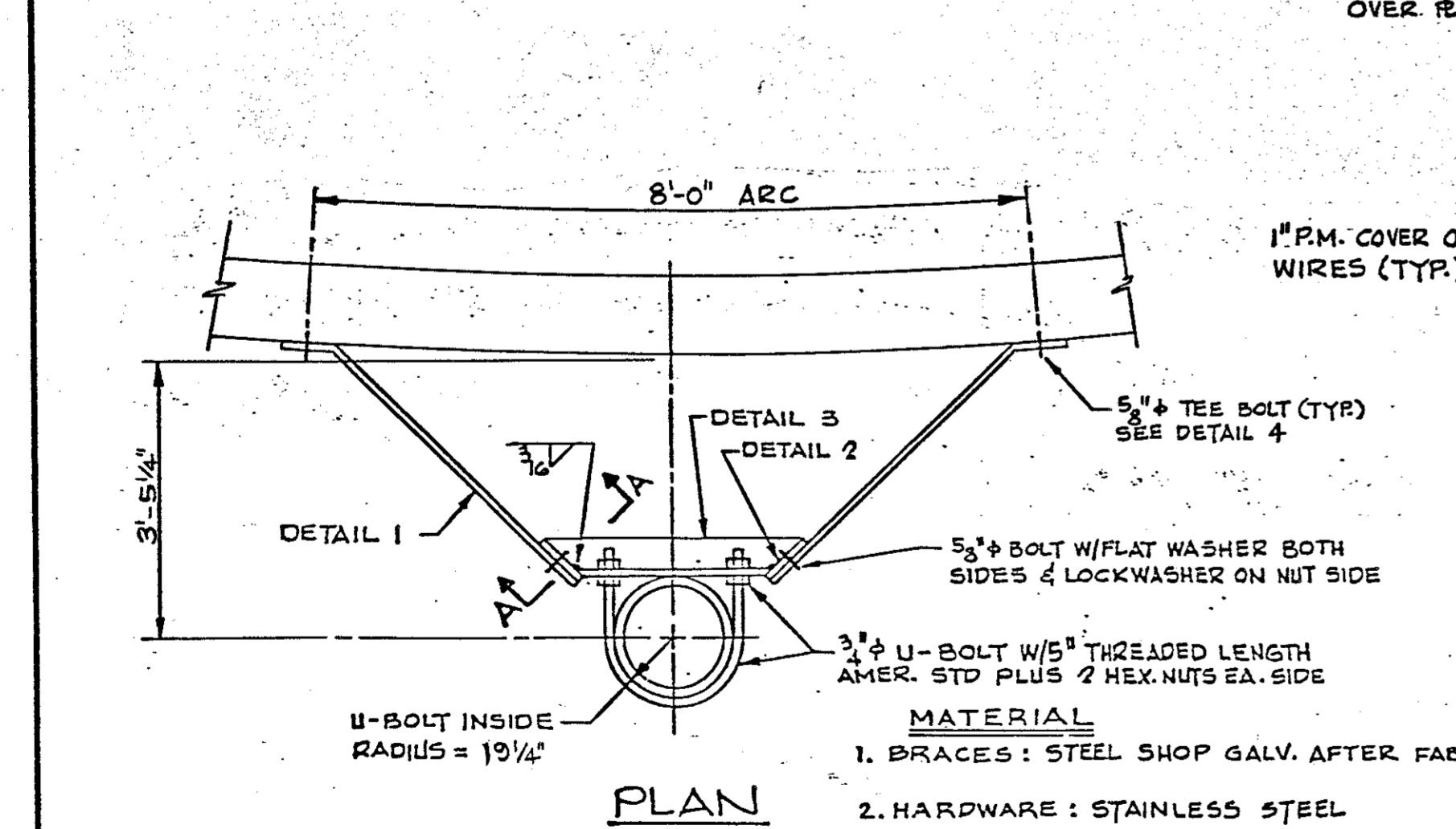
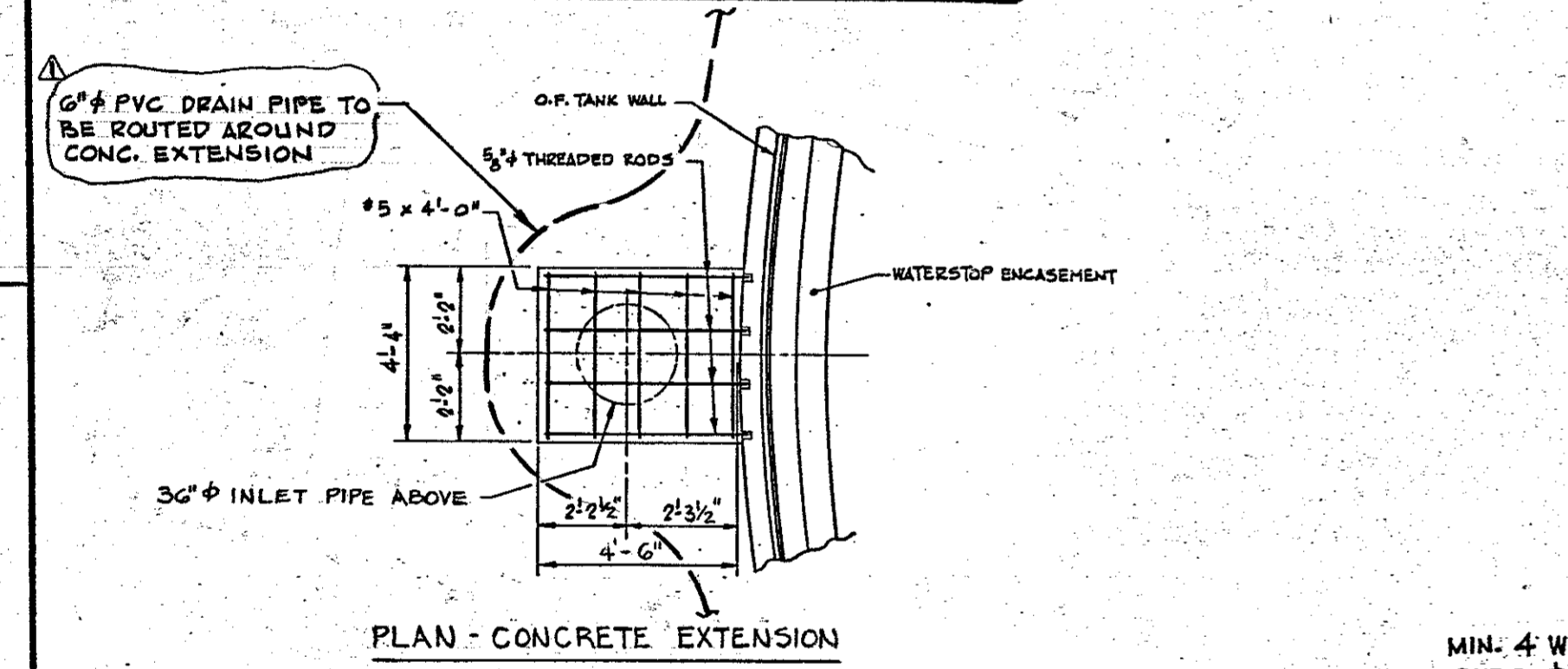
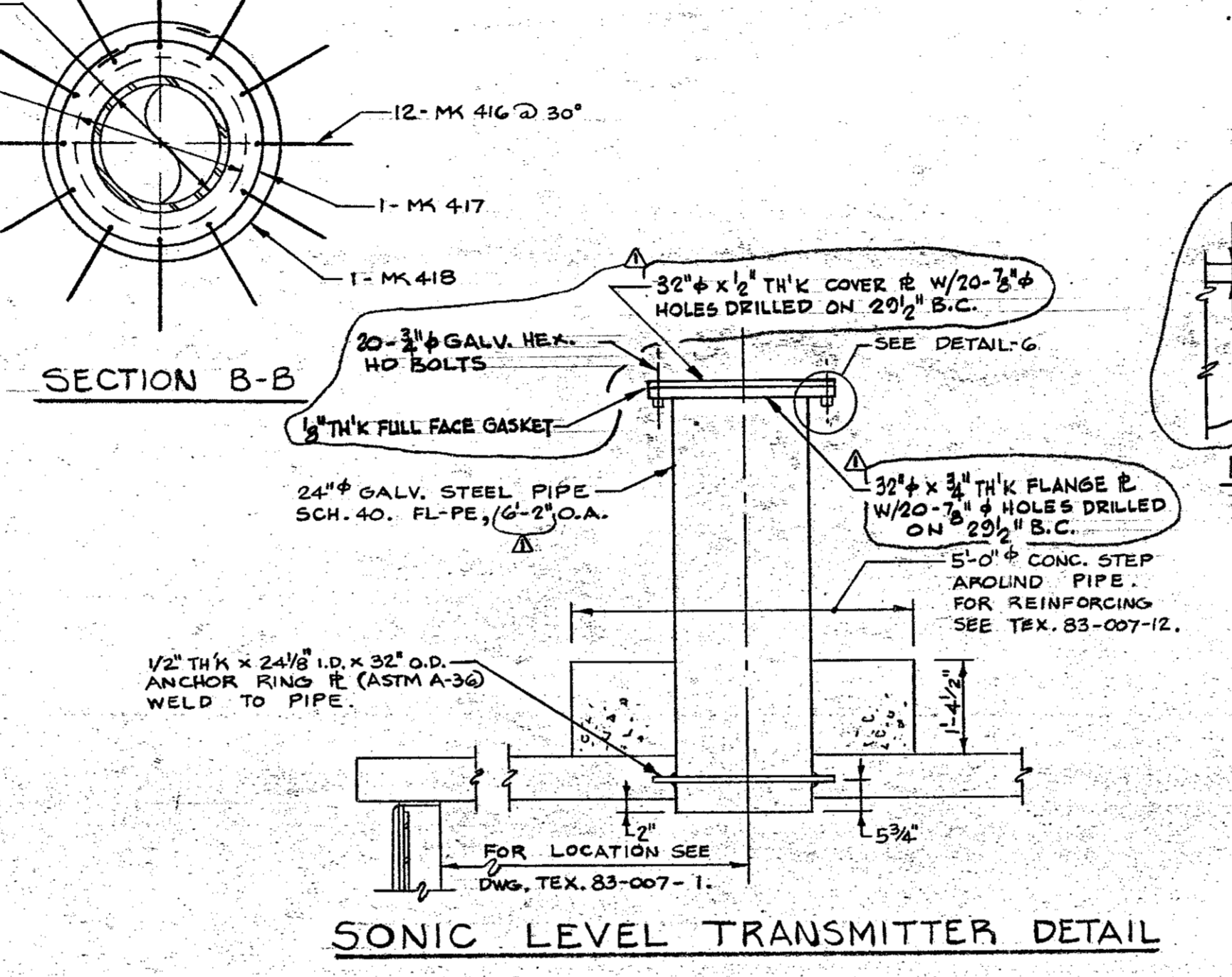
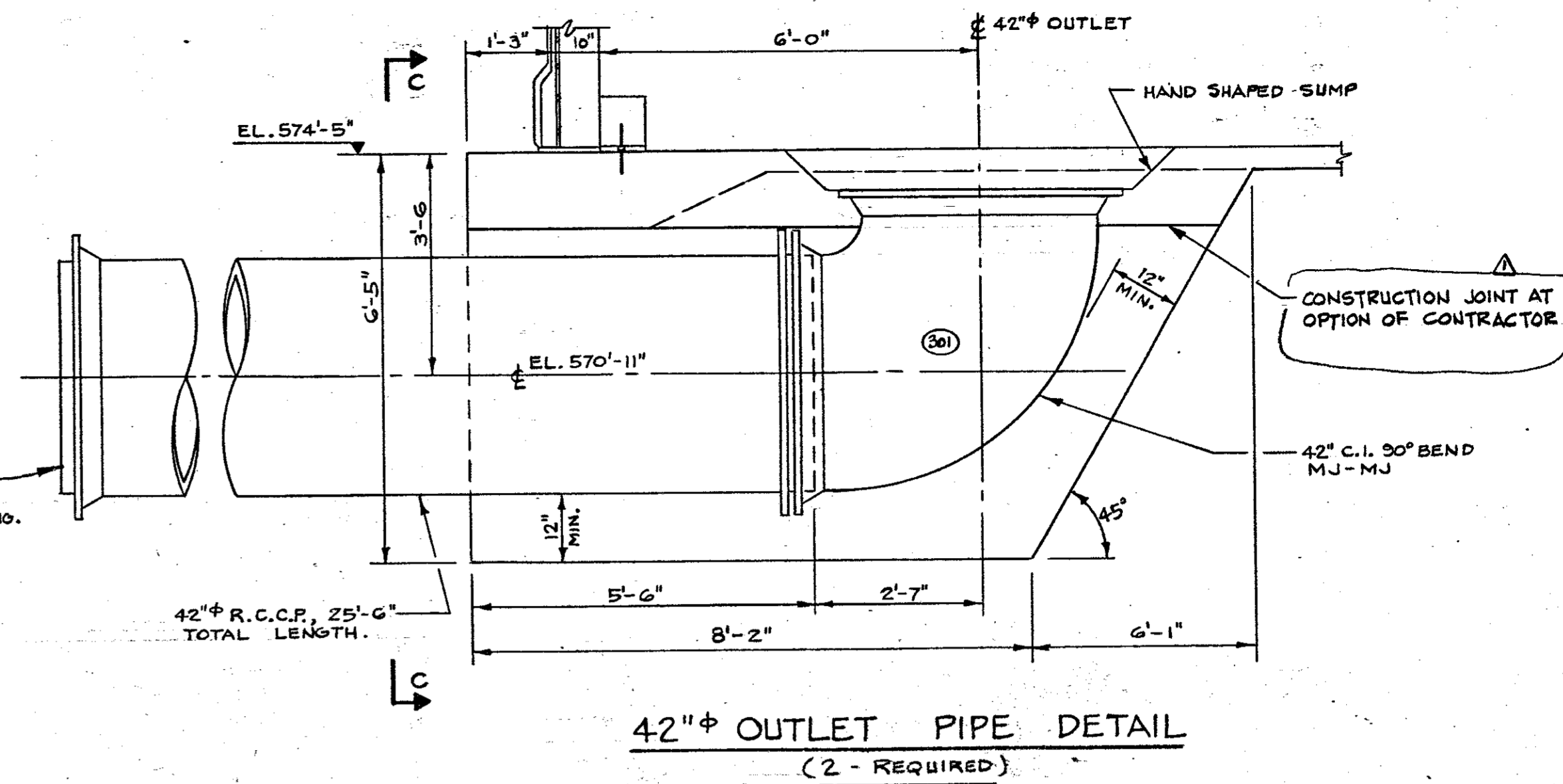
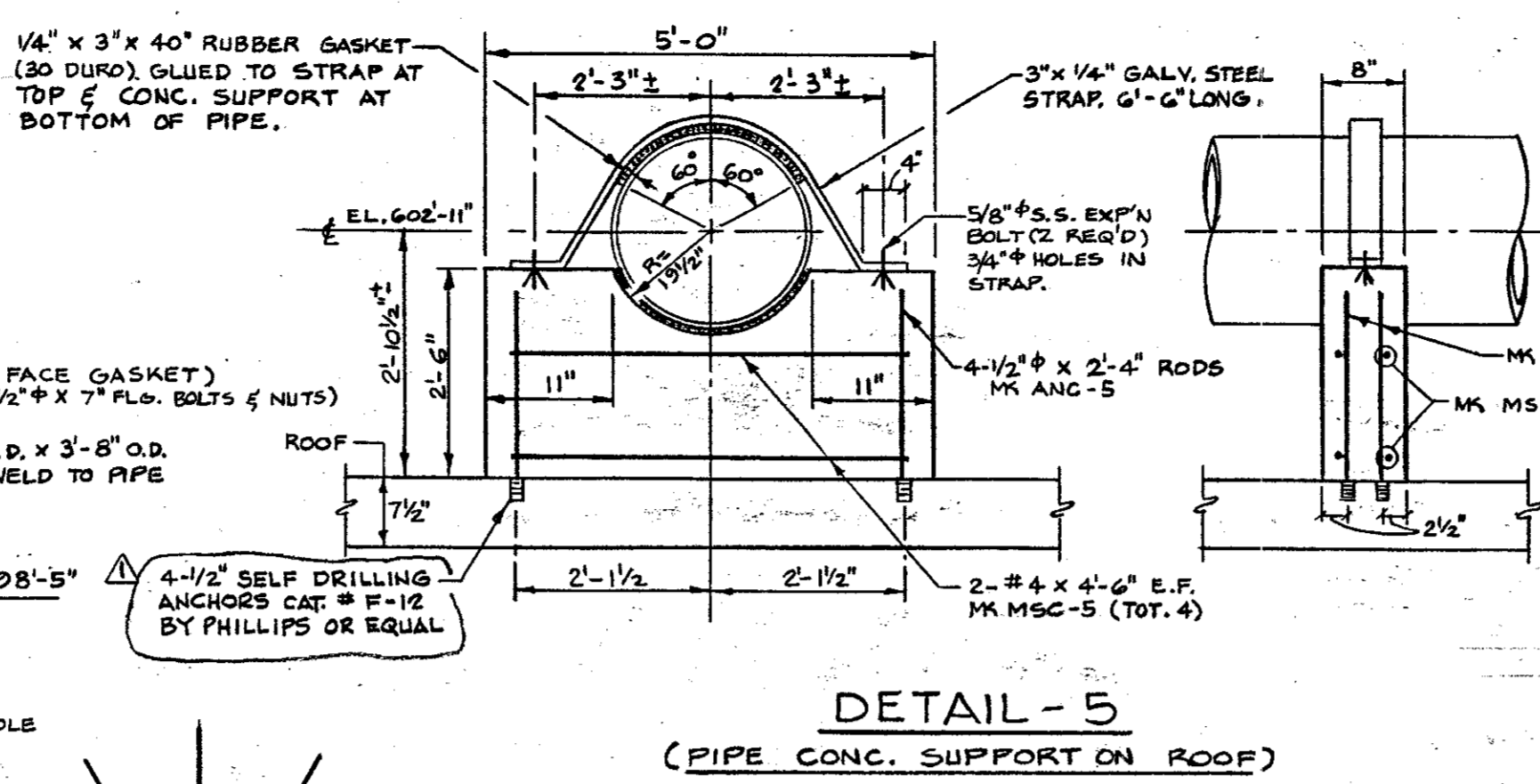
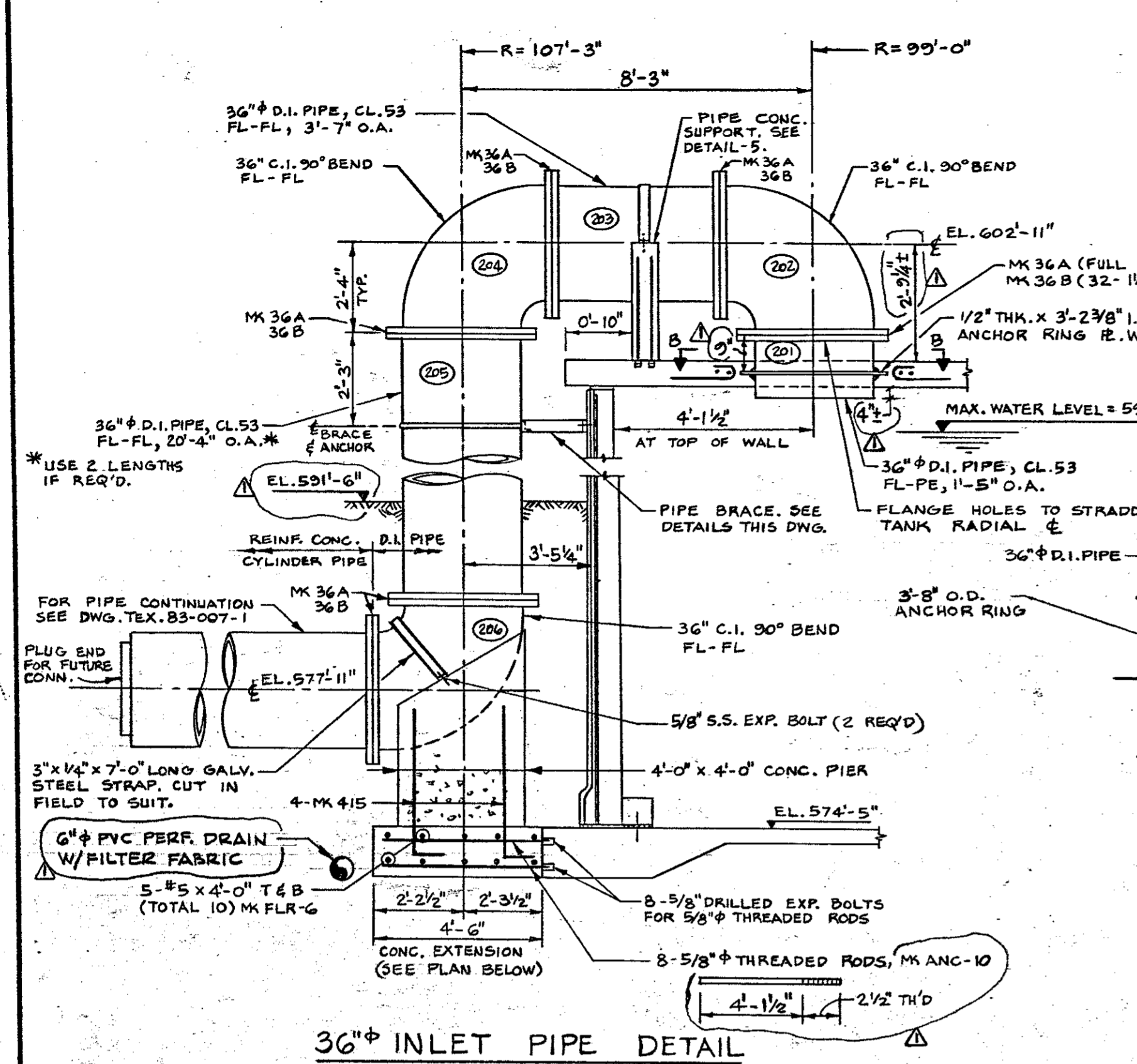
REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	5/13/83	REVISED SECT. C-C	RAO

<b>PRELOAD</b>		
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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		DRAWING NUMBER: TEX.
CHECKED: RAO	DATE: 4-24-86	NUMBER: 83-007-5



REVISIONS			
NO	DATE	DESCRIPTION	BY
1	5/13/86	REV. INLET PIPE DET., SONIC LEVEL TRANSMITTER DET., PLAN - CONG. EXT., DET. 3, 5 & 6	E RAO

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

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

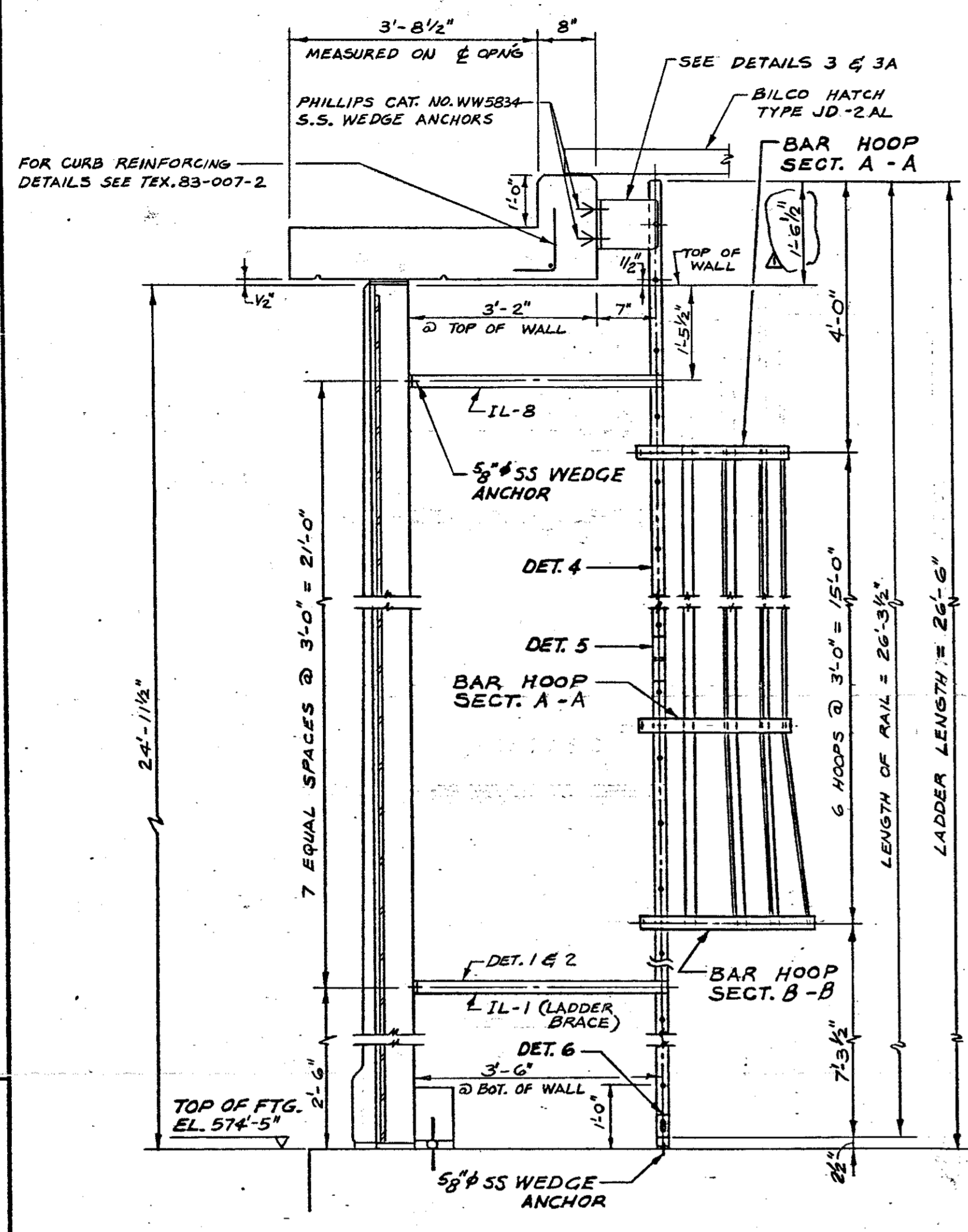
INLET & OUTLET PIPE DETAILS

DRAWN: JD	SCALE: NONE	CONTRACT NUMBER: 86 PE 004
DESIGNED: FD	APPROVED:	TEX. DRAWING NUMBER: 83-007-6
CHECKED: RAO	DATE: 4-24-86	

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DATE: 5/11/86  
 DRAWN: JD  
 DESIGNED: FD  
 CHECKED: RAO

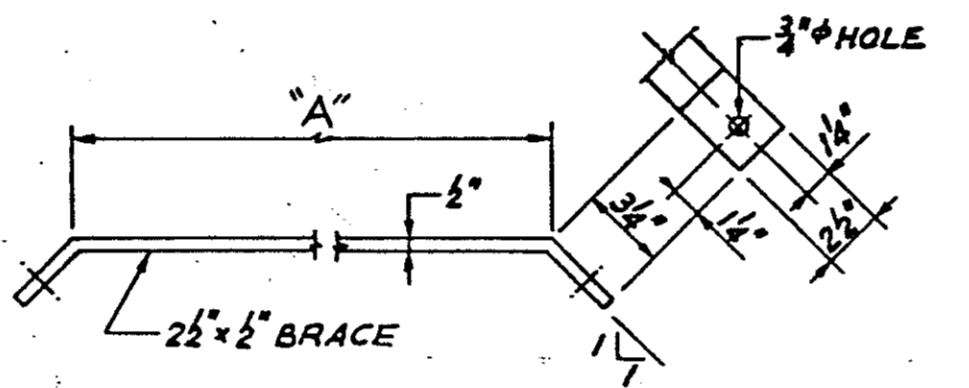
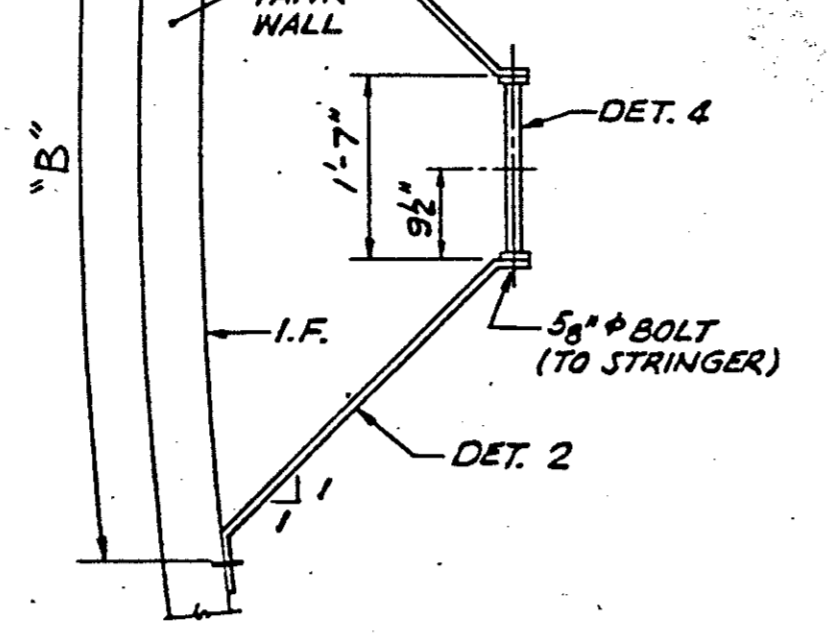
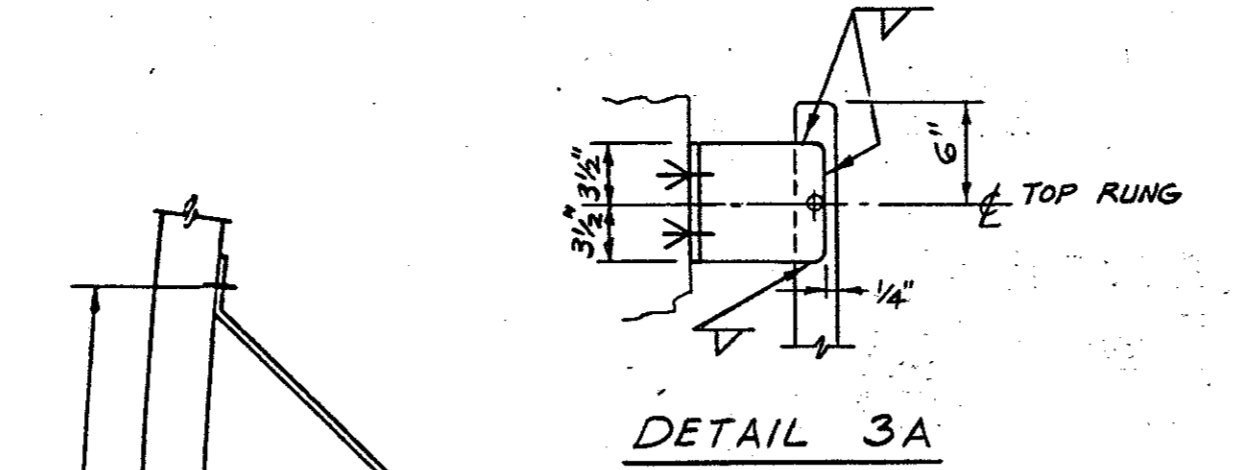




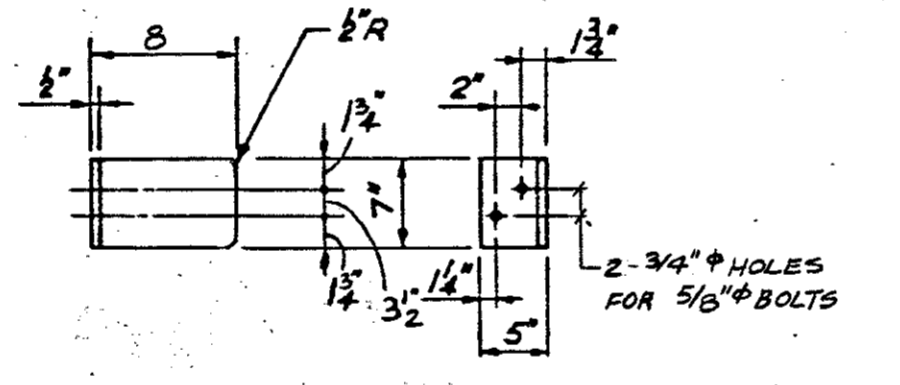
**ELEVATION—INSIDE LADDER**

- 1. LADDER & COMPONENTS TO BE STAINLESS STEEL (TYPE 304).
- 2. HARDWARE TO BE STAINLESS STEEL.

NOT TO SCALE



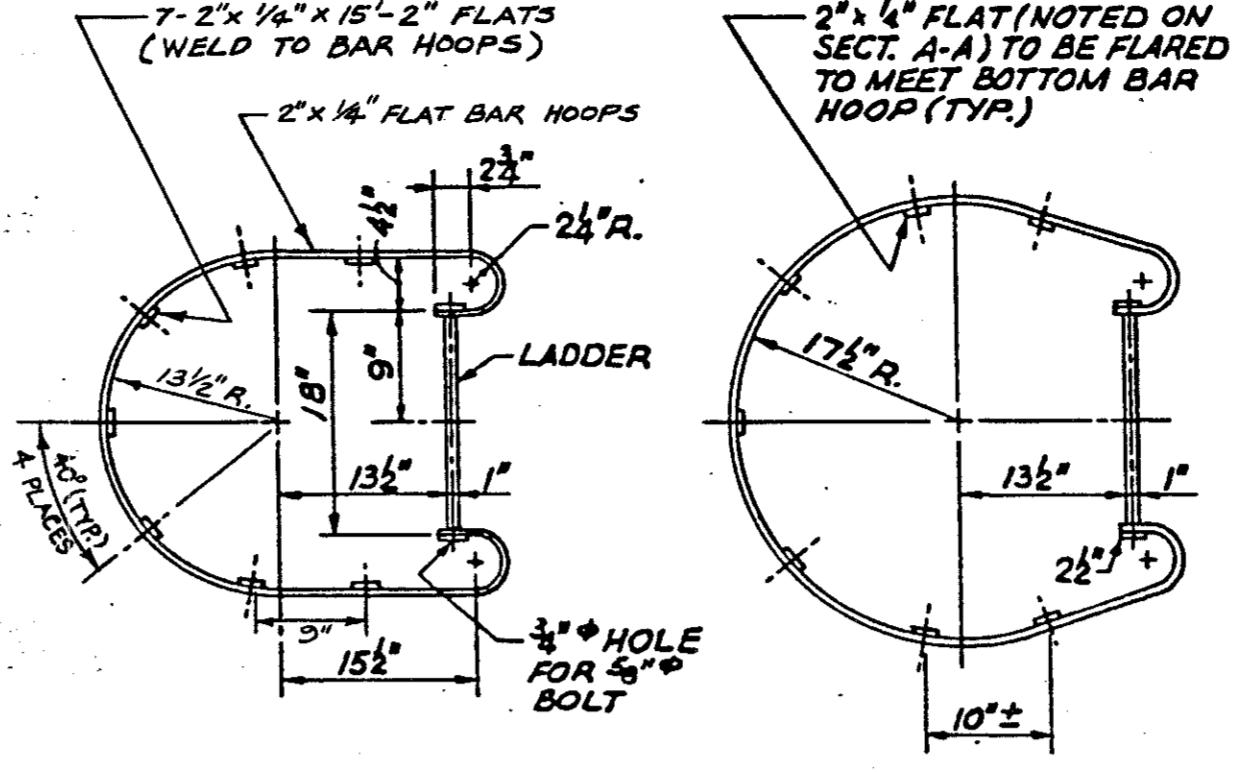
**DETAIL 2**  
(16 LEGS, TOTAL)  
2 EACH OF IL-1 TO IL-8



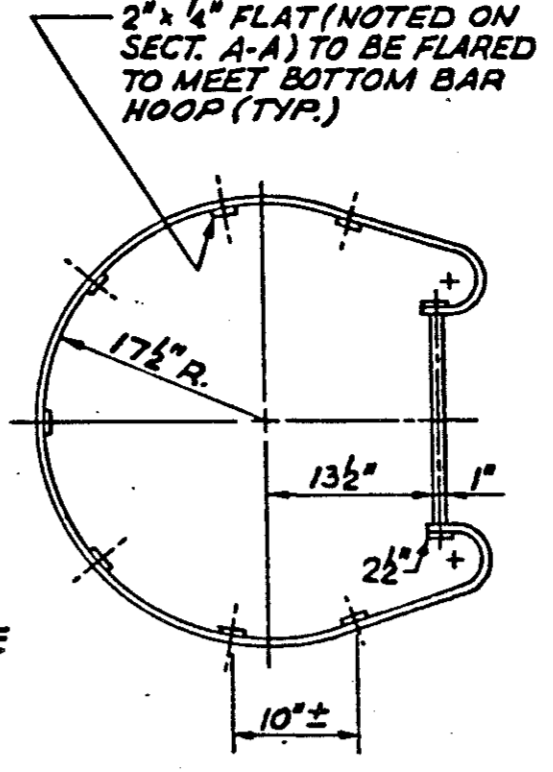
**DETAIL 3**  
(1 - AS SHOWN)  
(1 - OPP. HAND)

**LADDER BRACE SCHEDULE**

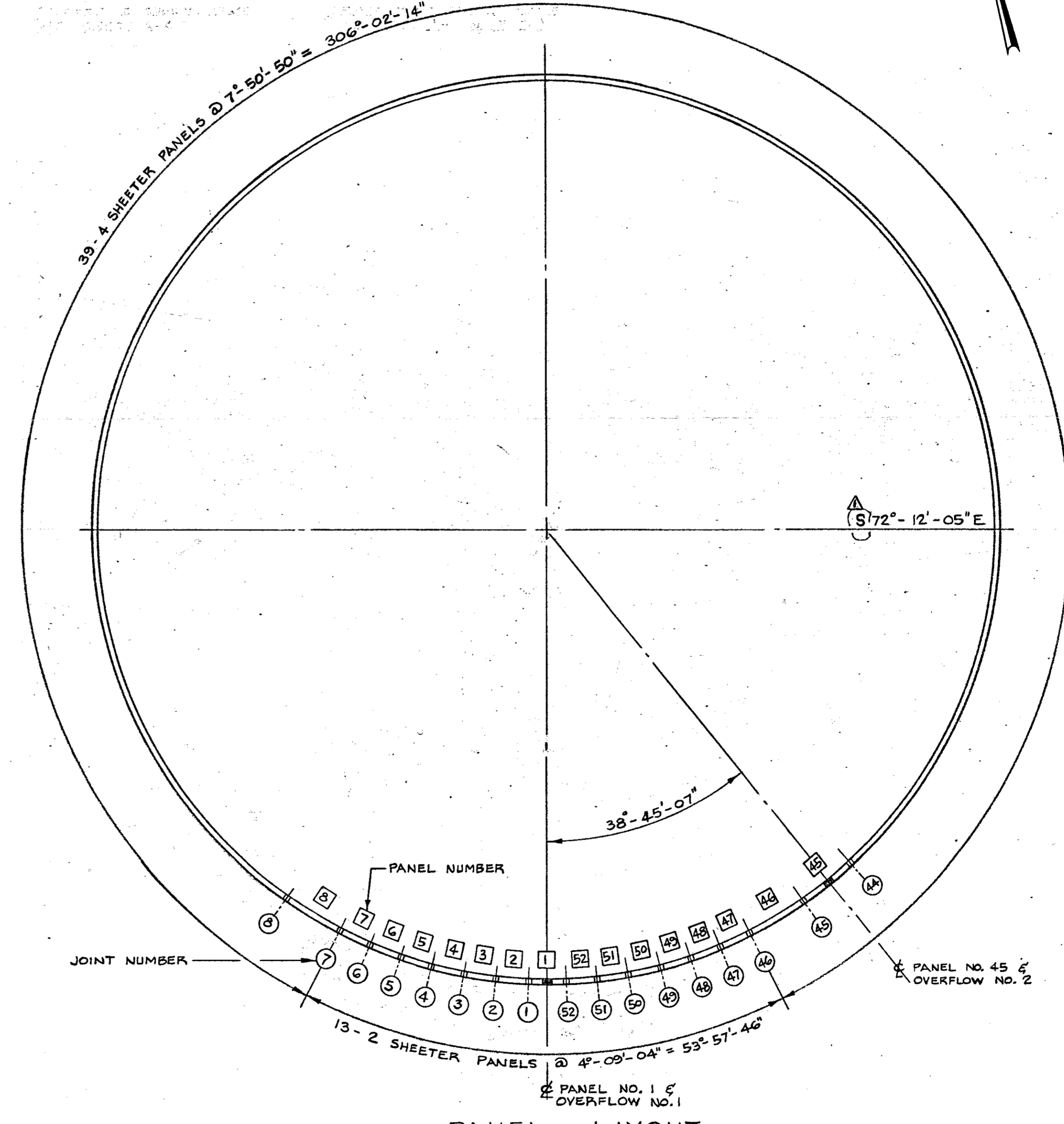
BRACE #	"A"	"B"
IL-1	4'-7 3/8"	8'-5 1/8"
IL-2	4'-8 3/8"	8'-6 3/8"
IL-3	4'-8 3/8"	8'-7 1/8"
IL-4	4'-9 3/8"	8'-7 3/8"
IL-5	4'-9 3/8"	8'-8 1/8"
IL-6	4'-10 3/8"	8'-9 3/8"
IL-7	4'-10 3/8"	8'-9 3/8"
IL-8	4'-11 3/8"	8'-10 3/8"



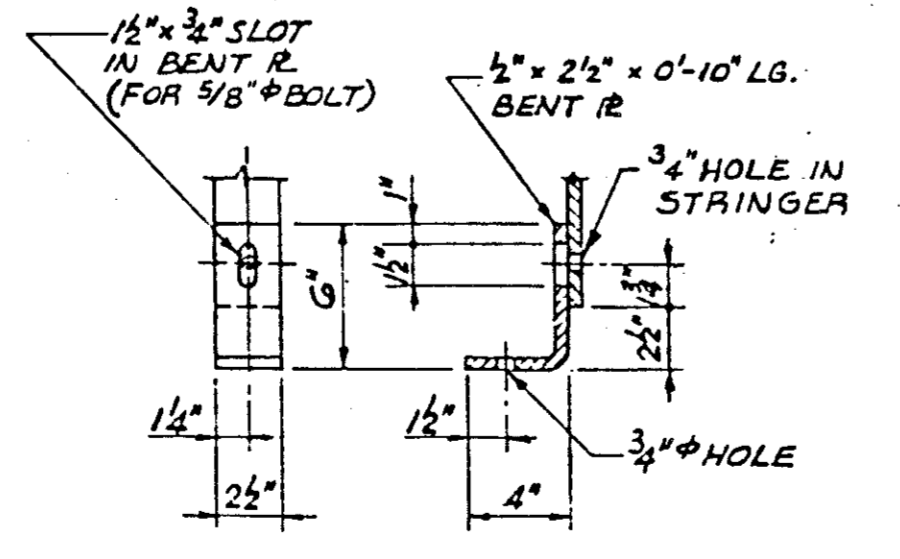
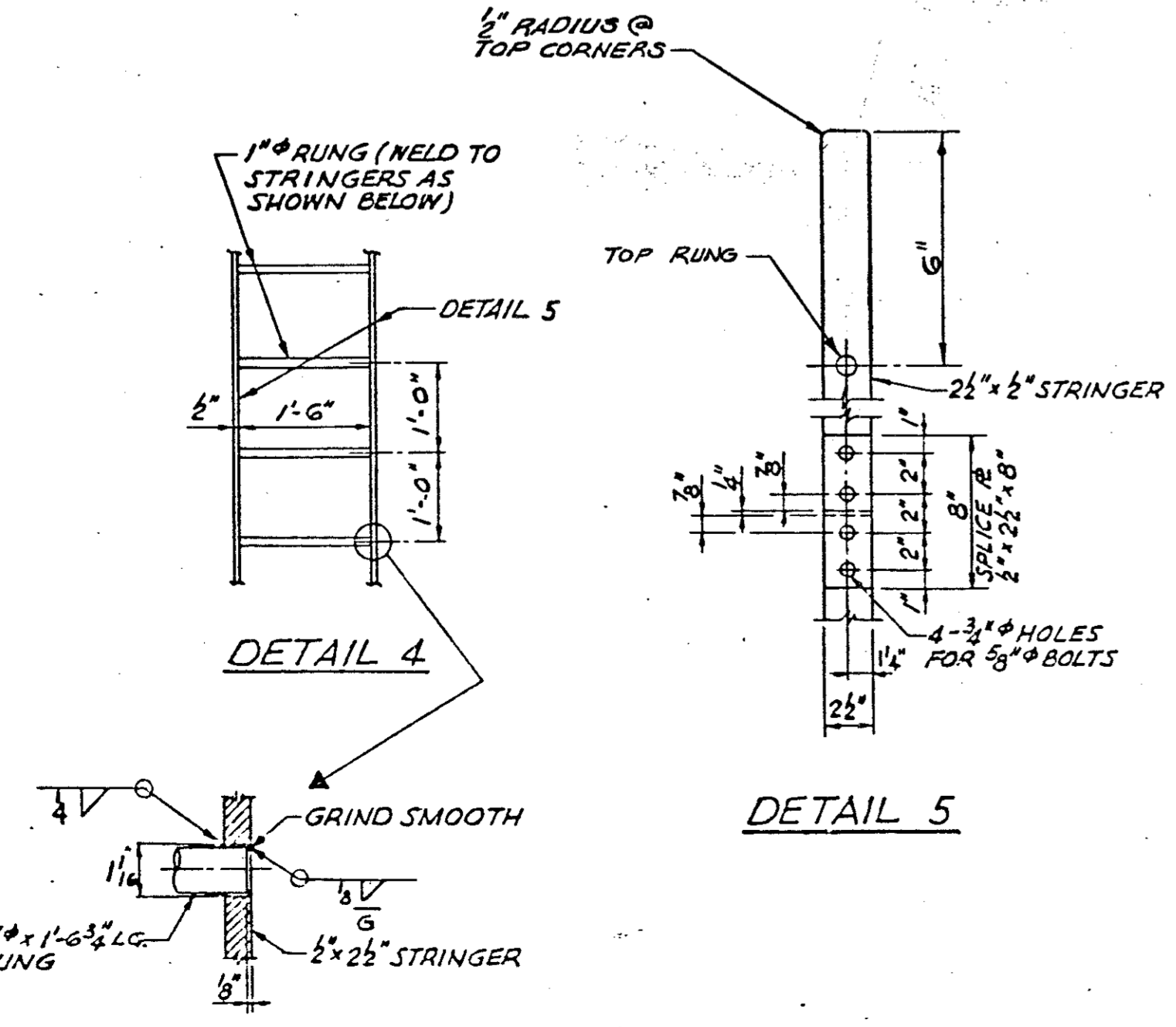
**SECT. A-A TOP & INTERMEDIATE BAR HOOPS**  
TOTAL: 5 REQ'D



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



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



**DETAIL 6**  
(2 THUS)

REVISIONS			
NO	DATE	DESCRIPTION	BY CKD
Δ	5/18/86	REVISED BEARINGS ON PANEL LAYOUT REVISED ELEV.-INSIDE LADDER	E JAD



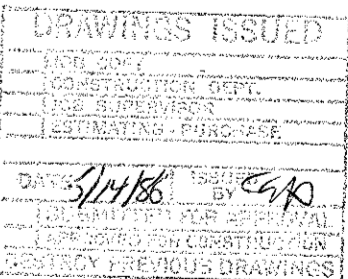
639 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

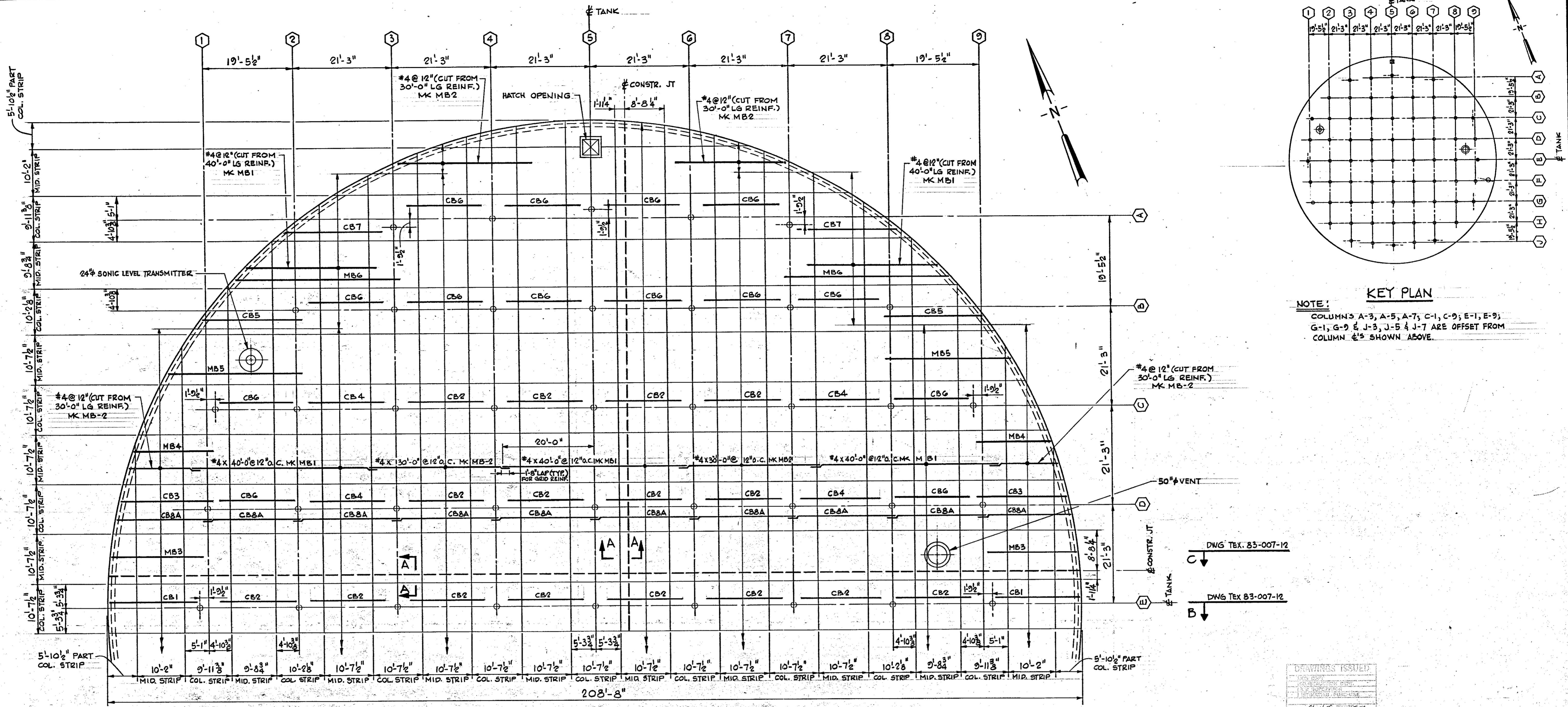
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**WORKING DRAWING**  
ONE 6.0 M.G. WATER STORAGE TANK  
ADDISON, TEXAS

**LADDER DETAILS & PANEL LAYOUT**

DRAWN: JD	SCALE: AS SHOWN	CONTRACT NUMBER: 86 PE 004
DESIGNED: RAO	MTO: A	DRAWING NUMBER: 83-C07-7
CHECKED: FD	DATE: 4-24-86	





**ROOF SLAB GRID SCHEDULE (LAYER NO.1)**

BUNDLE MK	REINR. PER BUNDLE NO.	SIZE	LENGTH	NO. OF BUNDLES	TOTAL 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 & F-G IN END BAYS	
* MB5	3	#4	30'-0"	4	12	13	229			MID STRIPS C-D & G-H IN END BAYS	
* MB6	3	#4	36'-0"	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 1/2"	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 1/2"	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**

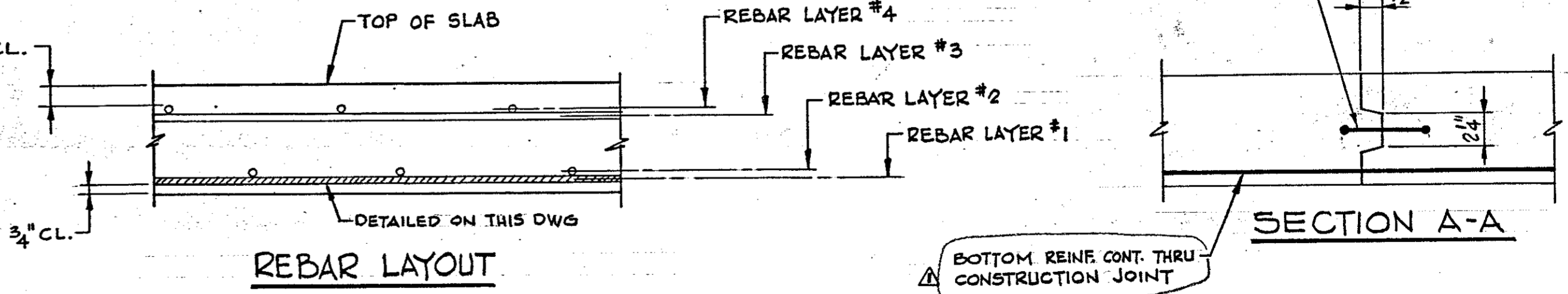
SCALE: 3/32" = 1'-0"

**NOTES:**

- REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 60.
- FOR HATCH, VENT & SONIC LEVEL TRANSMITTER DETAILS & ADD'L REIN. 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
- REIN. 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 & 4 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	CKD
1	5/13/86	REVISED SECTION A-A	E	RAO



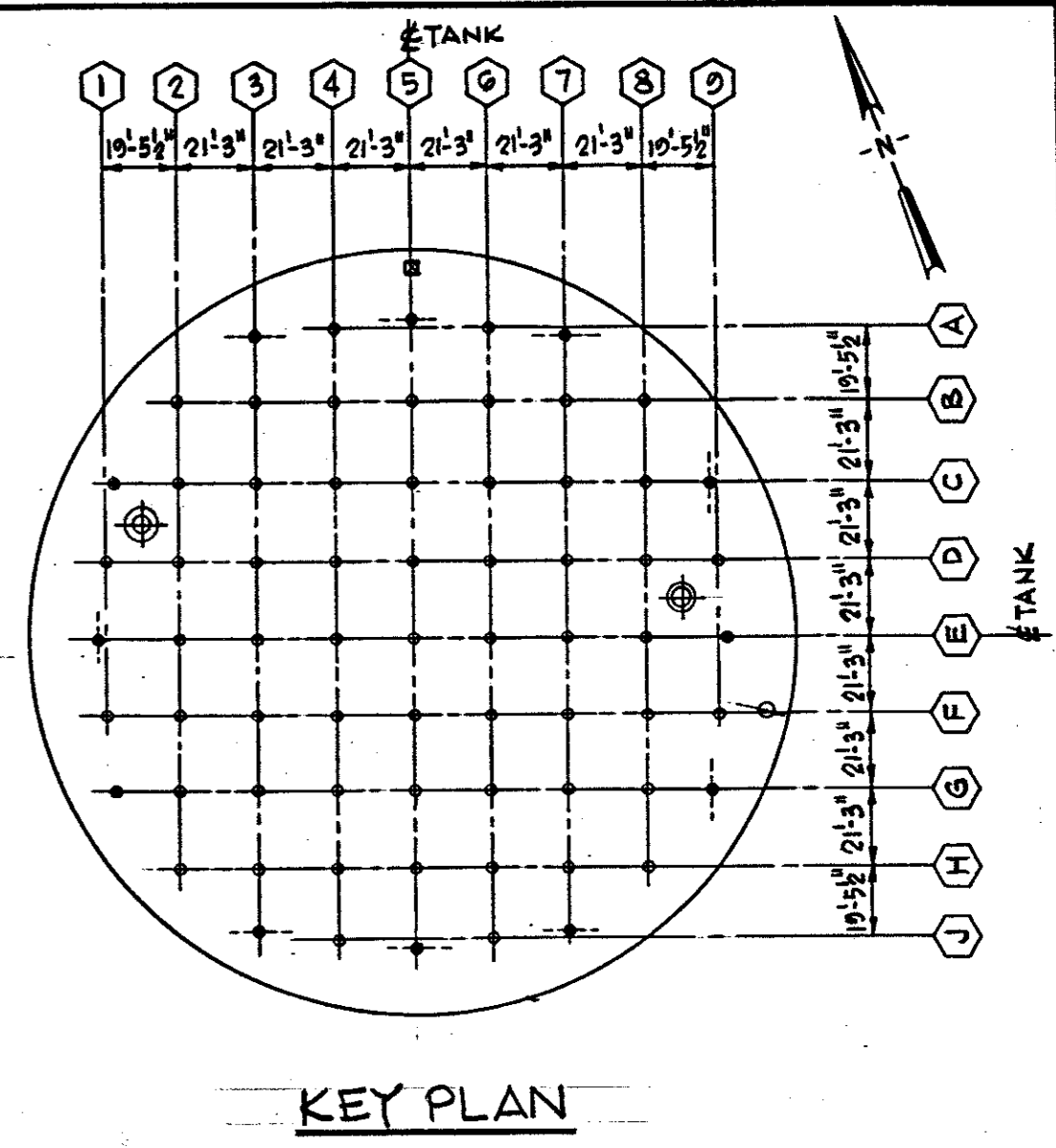
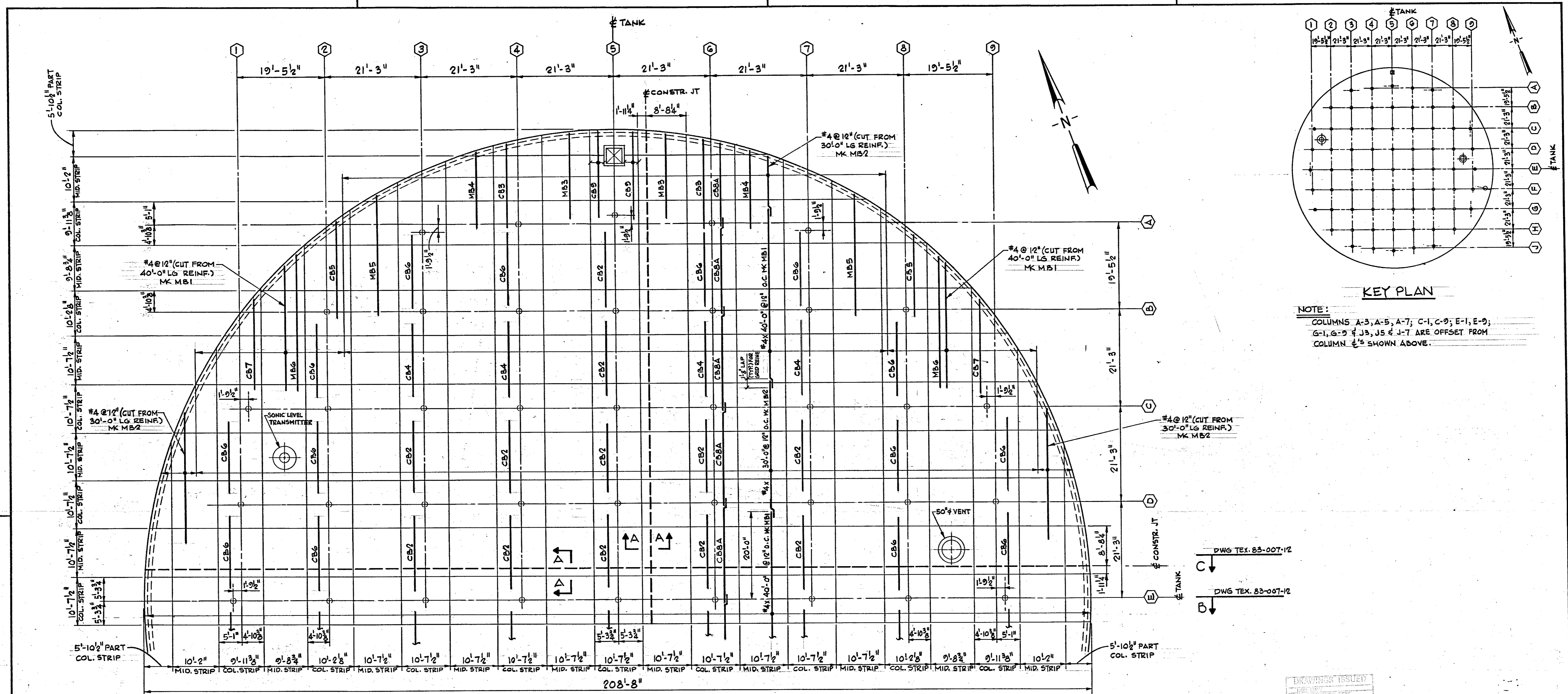
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**WORKING DRAWING**

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

DRAWN: E	SCALE:	CONTRACT NUMBER: 86 PE 004
DESIGNED: RAO	APPROVED:	TEX. DRAWING NUMBER: 83-007-B
CHECKED: FD	DATE: 4-24-86	



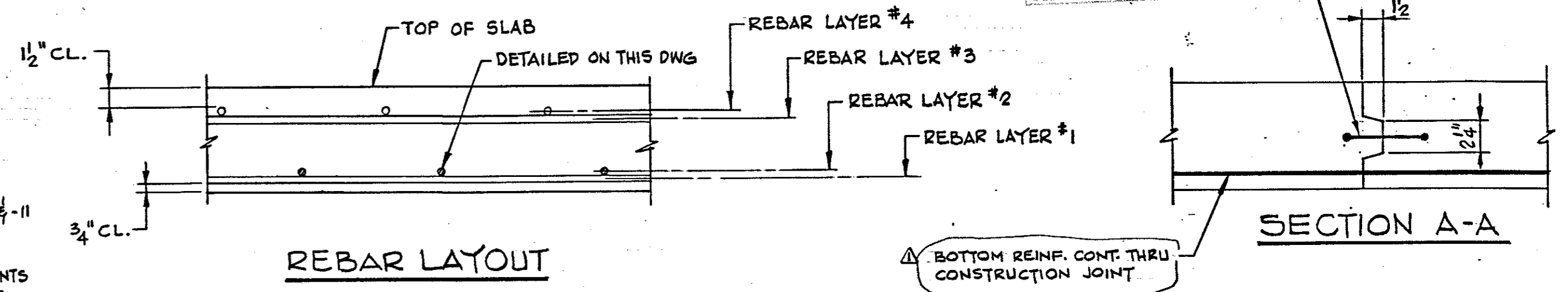
**NOTE:**  
 COLUMNS A-3, A-5, A-7; C-1, C-9; E-1, E-9;  
 G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM  
 COLUMN 5 SHOWN ABOVE.

ROOF SLAB GRID SCHEDULE (LAYER NO.2)											
BUNDLE MK	REINFR PER BUNDLE NO.	SIZE	LENGTH	NO. OF BUNDLES	TOTAL 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	36'-0 1/2"	4	12	13		229		MID. STRIP 2-3 & 7-8 END BAYS	
* MB6	3	#4	36'-0 1/2"	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"	3	56	60		641		LINE 3-C & 2-H INTERIOR BAYS	
* CB5	6	#4	22'-8 1/2"	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 1/2"	4	32	34		451		LINE 1 & 3 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.

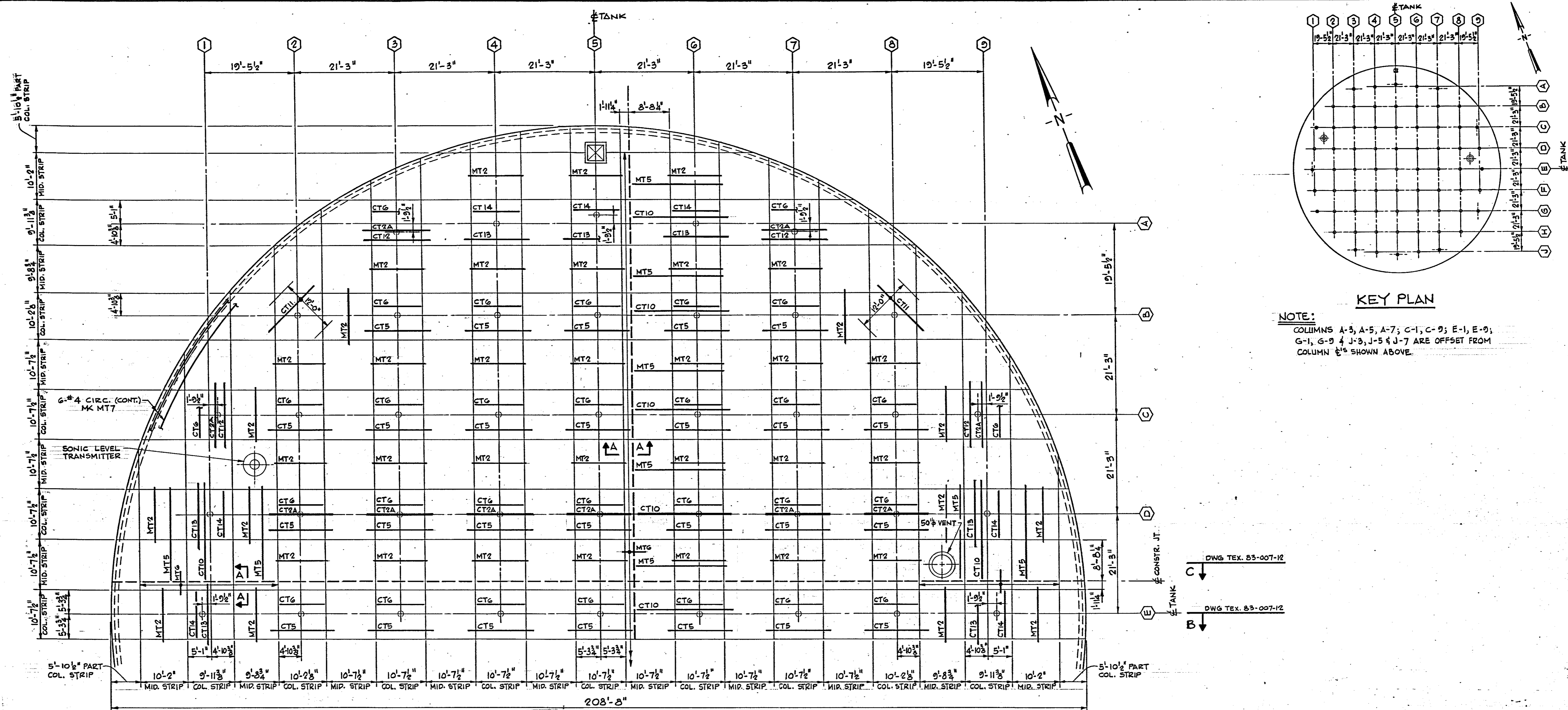
- FORMWORK NOTES:**
1. FORMWORK DESIGN AND RESHORING SHALL BE IN ACCORDANCE WITH ACI 347, LATEST EDITION.
  2. FORMS TO REMAIN UNTIL SLAB REACHES DESIGN STRENGTH BUT NOT LESS THAN 7 DAYS UNLESS RESHORING IS USED.
  3. SLAB BETWEEN CONSTRUCTION JOINT AND COLUMNS IS NOT DESIGNED FOR CANTILEVER ACTION.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



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

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**WORKING DRAWING**  
 ONE 6.0 M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO. 2  
 DRAWN: E  
 DESIGNED: RAO  
 CHECKED: PD  
 SCALE: AS SHOWN  
 APPROVED: [Signature]  
 DATE: 4/24/86  
 CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-9



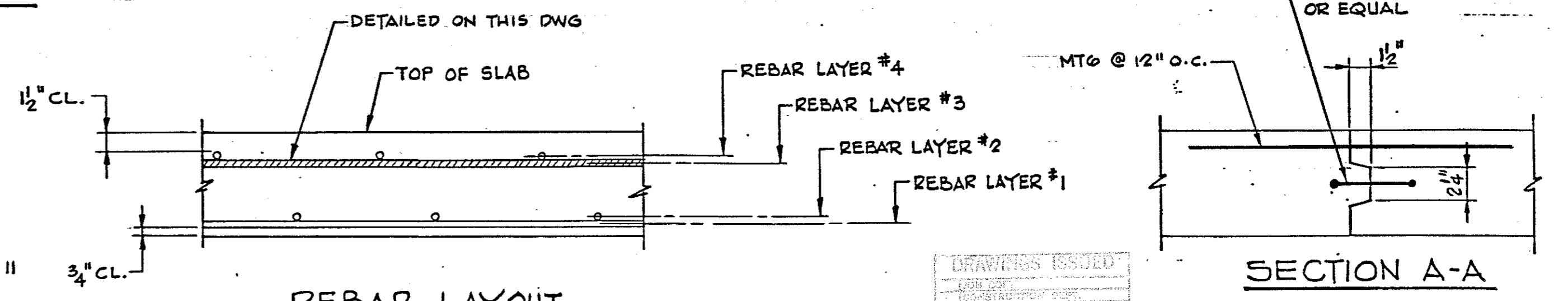
**ROOF SLAB GRID SCHEDULE (LAYER NO. 3)**

BUNDLE NO.	REIN. PER BUNDLE	NO. OF TOTAL BUNDLES	NO. OF BARS	NO.	ORDER	BAR WEIGHT			LOCATION	SKETCH	
						#5	#4	#3			
CT2A	3 #5	14'-0"	14	44	45	657			LINE D & END BAYS LINE I, O, A & J		
CT5	10 #5	14'-0"	45	450	460	6717			INTERIOR BAYS		
CT6	9 #5	10'-4"	53	477	490	5279			INTERIOR BAYS & END BAYS OF I, O, A & J		
CT10	3 #5	20'-11"	11	33	35	764			LINE G, I D & 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 I, O, A & J		
CT13	8 #5	14'-0"	12	96	100	1460			LINE A, J, I & 2 INTERIOR BAYS		
CT14	8 #5	10'-4"	12	96	100	1078			LINE A, J, I & 2 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:**

- 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. 83-007-8, -9 & 11
- REINF. MARKED WITH SUFFIX "A" TO BE PLACED NEAR THE #5 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.
- SLABS 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**

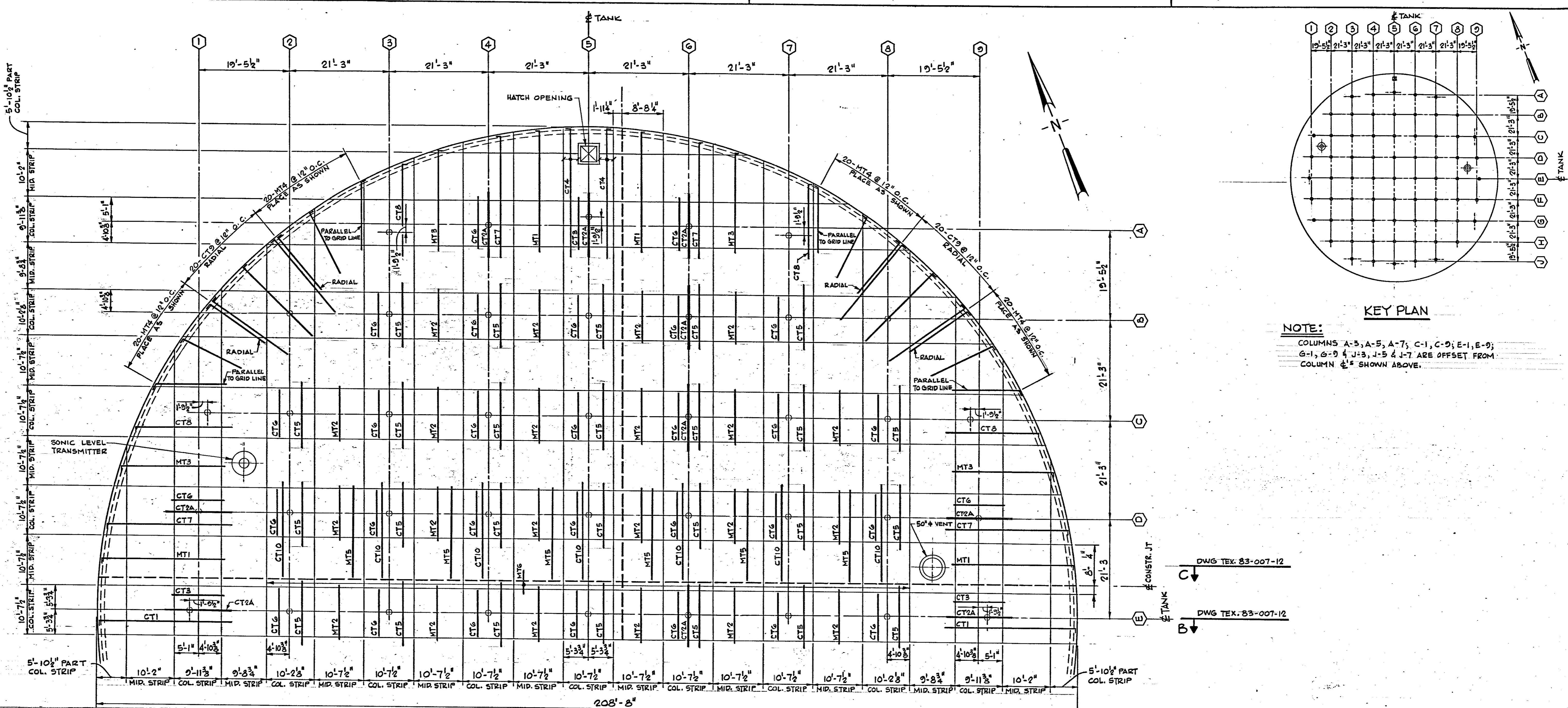
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**WORKING DRAWING**

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

DRAWN: E	SCALE:	CONTRACT NUMBER: 86PE 004
DESIGNED: ZAO	APPROVED:	TEX. DRAWING NUMBER: 83-007-10
CHECKED: PD	DATE: 4/24/86	



**KEY PLAN**

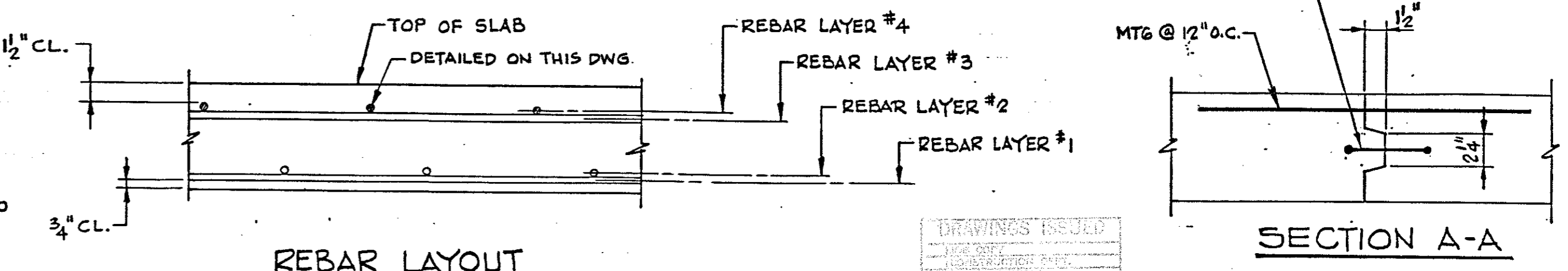
**NOTE:**  
 COLUMNS A-3, A-5, A-7, C-1, C-9; E-1, E-9;  
 G-1, G-9 & J-3, J-5 & J-7 ARE OFFSET FROM  
 COLUMN 6 AS SHOWN ABOVE.

**ROOF SLAB GRID SCHEDULE (LAYER NO. 4)**

BUNDLE MK	REIN. PER BUNDLE NO.	SIZE	LENGTH	NO. OF TOTAL BUNDLES	NO. 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 G	4" 26'-2"	
CT3	10	#5	10'-4"	4	40	42	453			LINE E & 5 END BAYS	4" 26'-2"	
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	4" 26'-2"	
CT6	9	#5	10'-4"	53	477	490	5281			INTERIOR BAYS PLUS LINE A, G, D & F END BAYS	4" 26'-2"	
CT7	9	#5	27'-0"	8	72	75	2112			LINE 4, 5, D & F END BAYS	4" 26'-2"	
CT8	12	#5	23'-2"	8	96	100	2417			LINE E 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	4" 23'-0"	
MT1	11	#4	26'-8"	8	88	92	1639			MID. STRIP D-E, E-F, 5-4 & 5-G END BAYS	4" 26'-4"	
MT2	11	#4	11'-1"	38	418	430	3183			INTERIOR BAYS	4" 23'-0"	
MT3	11	#4	23'-4"	8	88	92	1433			MID. STRIP C-D, F-G, 3-4 & 6-7 END BAYS	4" 15'-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	4" 15'-0"	
MT6	140	#4	4'-0"	1	140	145	387			CONSTRUCTION JOINT	4" 15'-0"	
<b>TOTAL WEIGHT</b>							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**

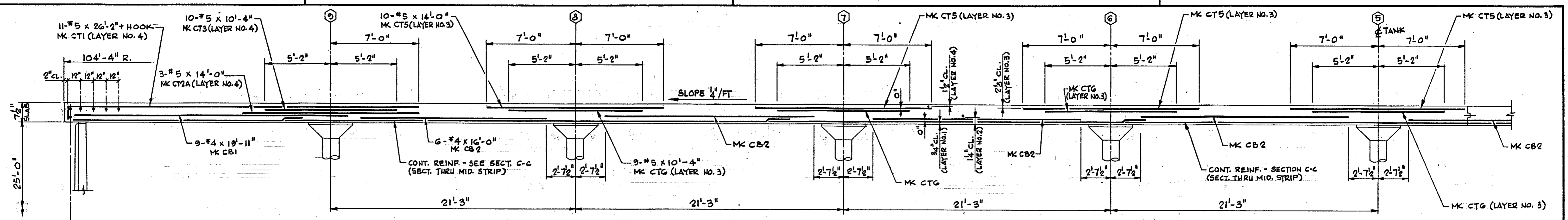
NO.	DATE	DESCRIPTION	BY	CKD

**PRELOAD**  
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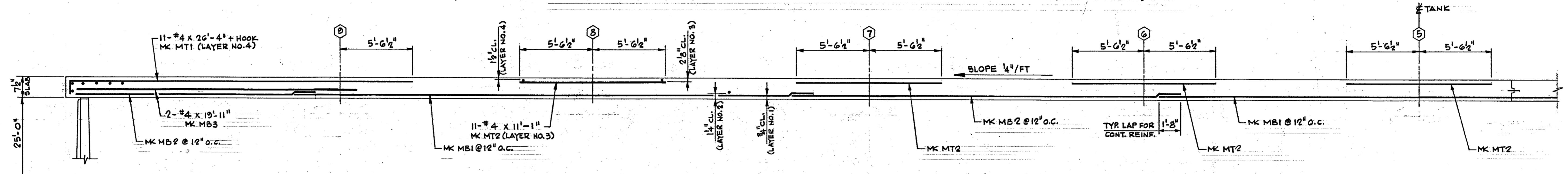
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**WORKING DRAWING**  
 ONE 6.0 M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
 ROOF SLAB REINFORCING  
 LAYER NO. 4

DESIGNED: RAO  
 CHECKED: PD  
 SCALE: 3/32" = 1'-0"  
 DATE: 4/24/86  
 CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-11

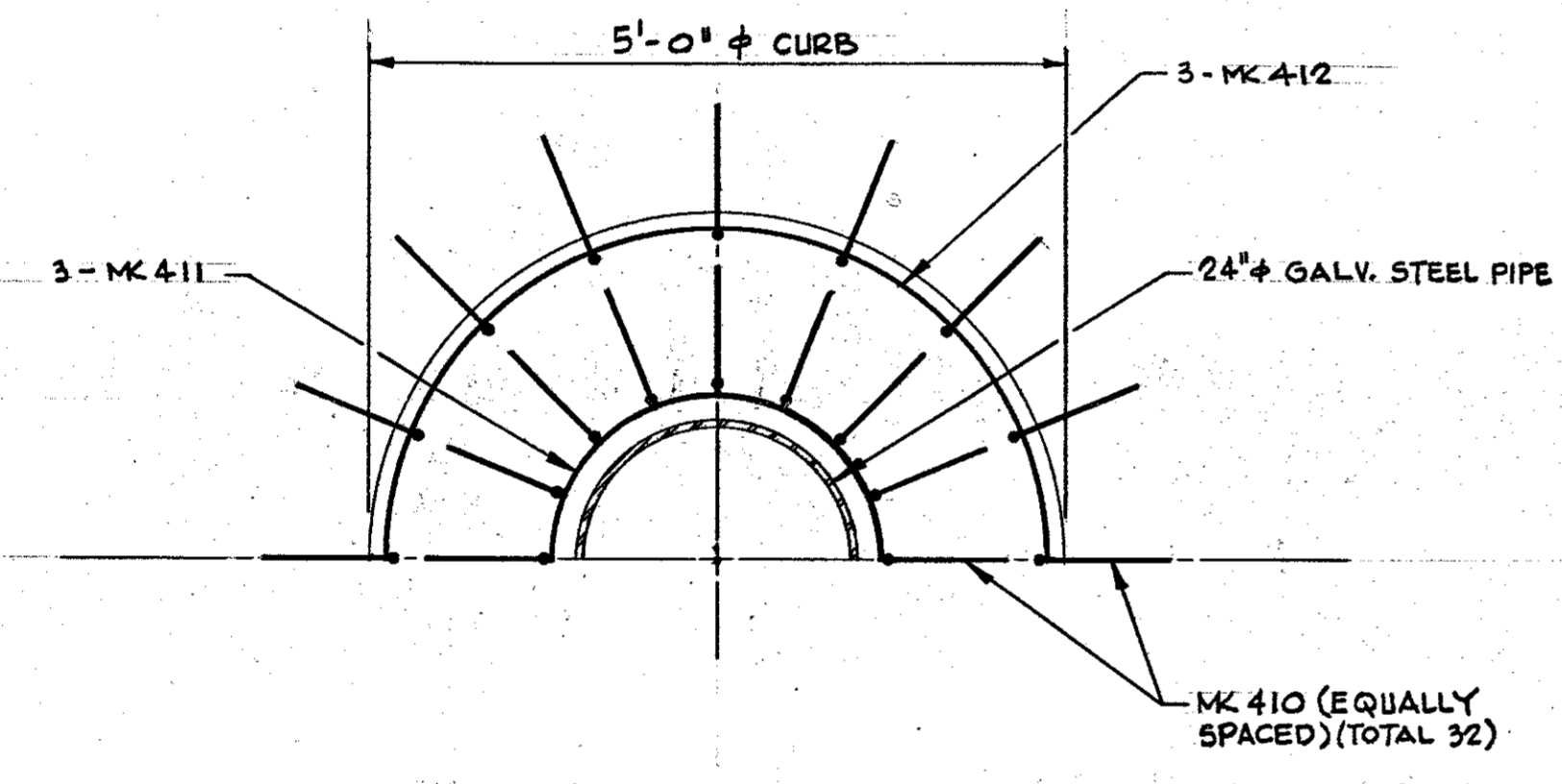


**SECTION B-B (SECTION THRU COLUMN STRIP)**  
 (SECTION THRU COLUMN STRIP ON COLUMN LINE SHOWN. OTHER COLUMN STRIPS SIMILAR)

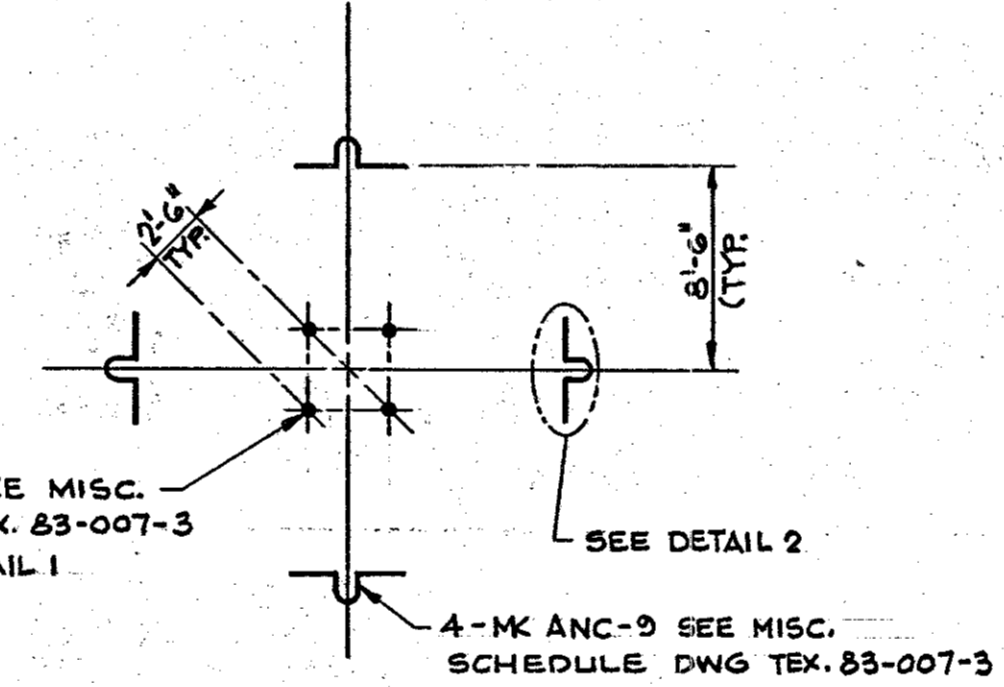


**SECTION C-C (SECTION THRU MIDDLE STRIP)**  
 SECTION THRU MIDDLE STRIP ABOVE COLUMN CENTERLINE SHOWN. OTHER MIDDLE STRIPS SIMILAR.

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

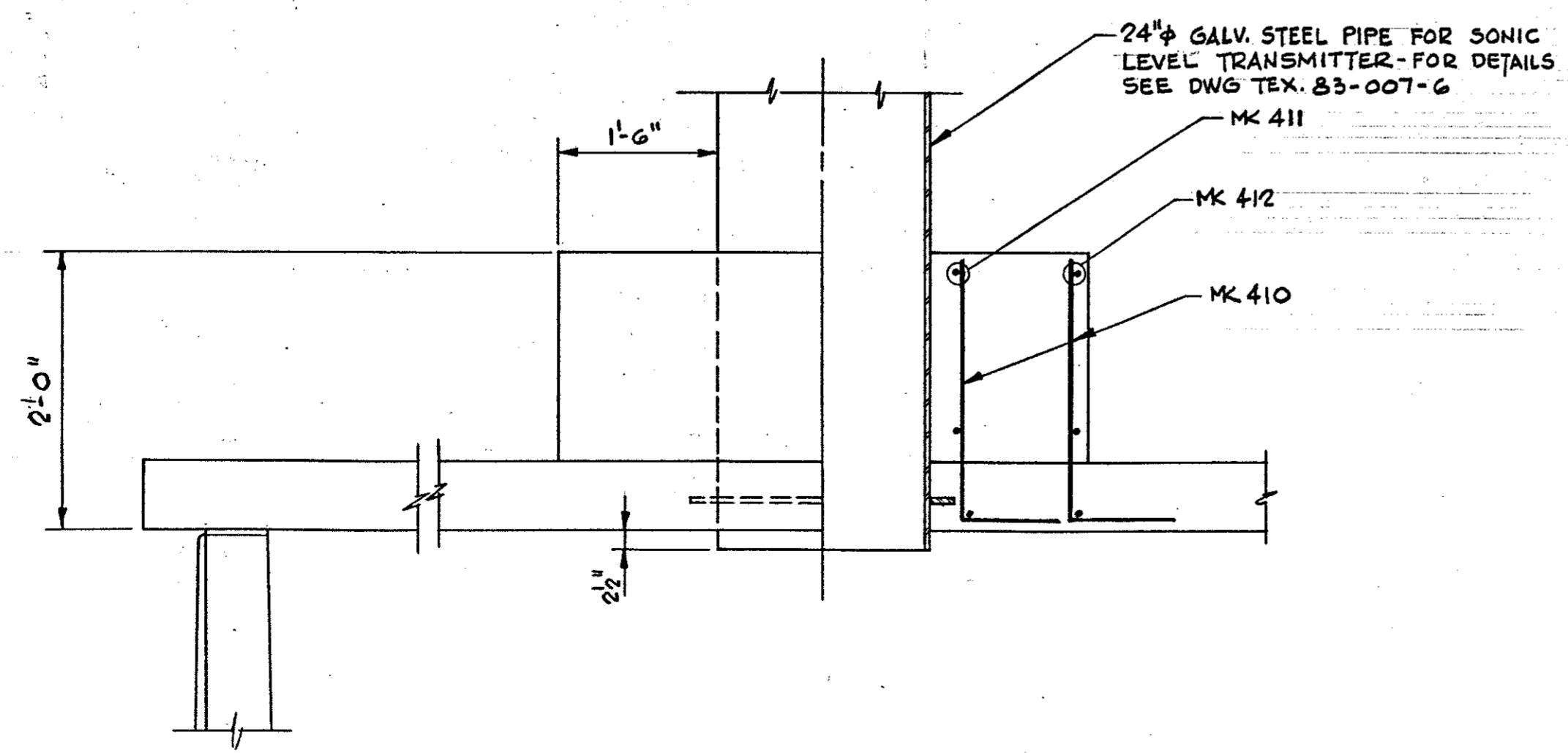
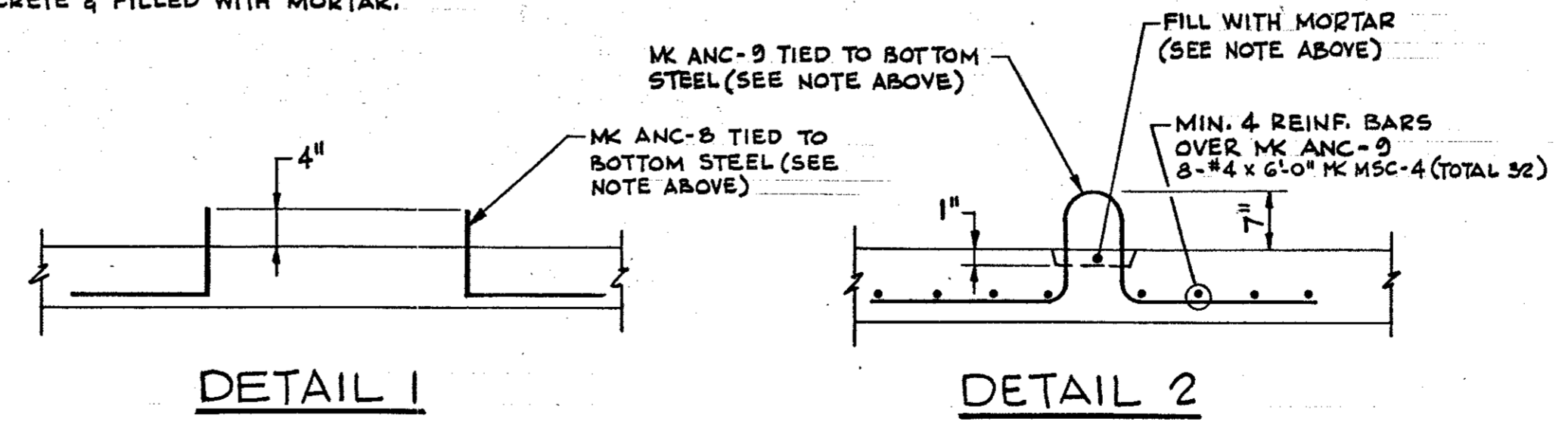


4-MK ANC-8 SEE MISC. SCHED. DWG TEX. 83-007-3 SEE ALSO DETAIL 1



**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**

DRAWN BY: [Signature]  
 CHECKED BY: [Signature]

REVISIONS				
NO	DATE	DESCRIPTION	BY	CKD

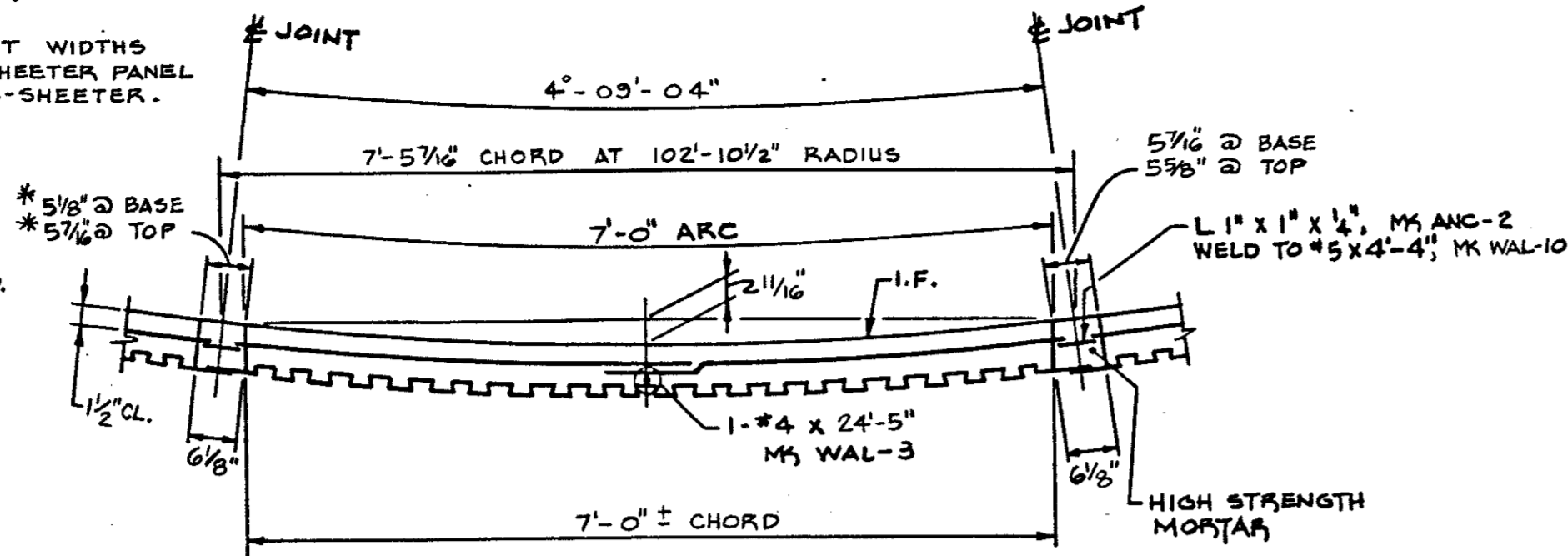
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**WORKING DRAWING**  
 ONE G.O.M.G. GROUND STORAGE RESERVOIR  
 ADDISON, TEXAS  
**ROOF SECTIONS**  
 DRAWN: [Signature] SCALE: [Blank]  
 DESIGNED: RAO APPROVED: [Signature]  
 CHECKED: [Signature] DATE: 4/24/86  
 CONTRACT NUMBER: 86 PE 004  
 DRAWING NUMBER: 83-007-12

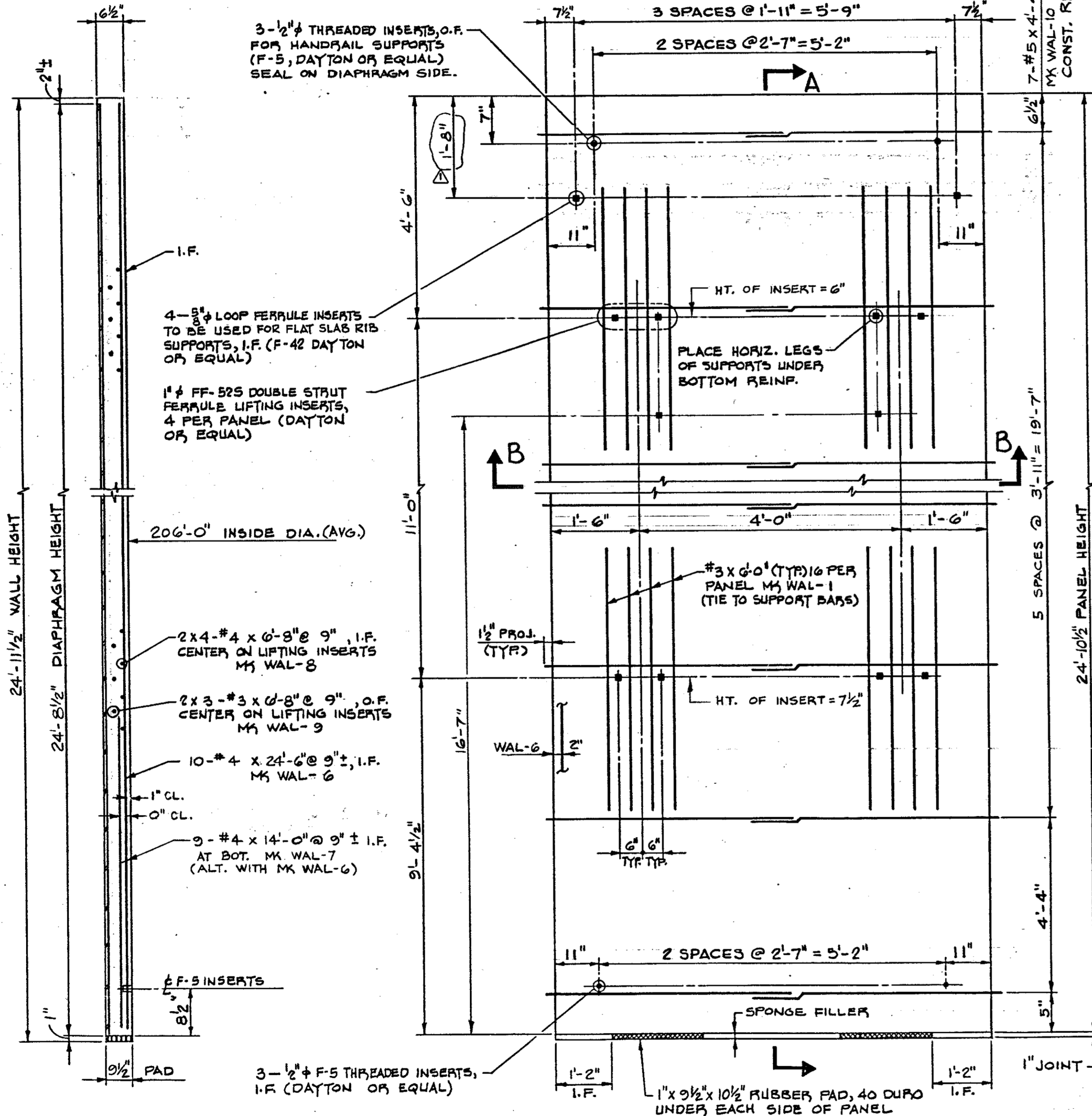
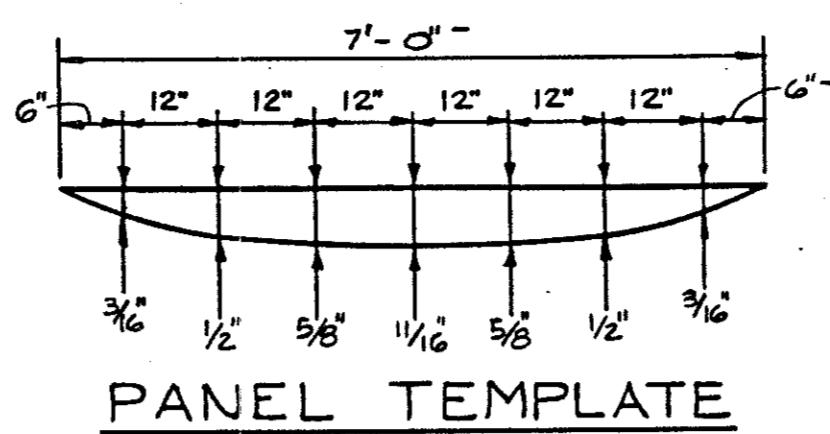
**WALL PANEL NOTES:**

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.



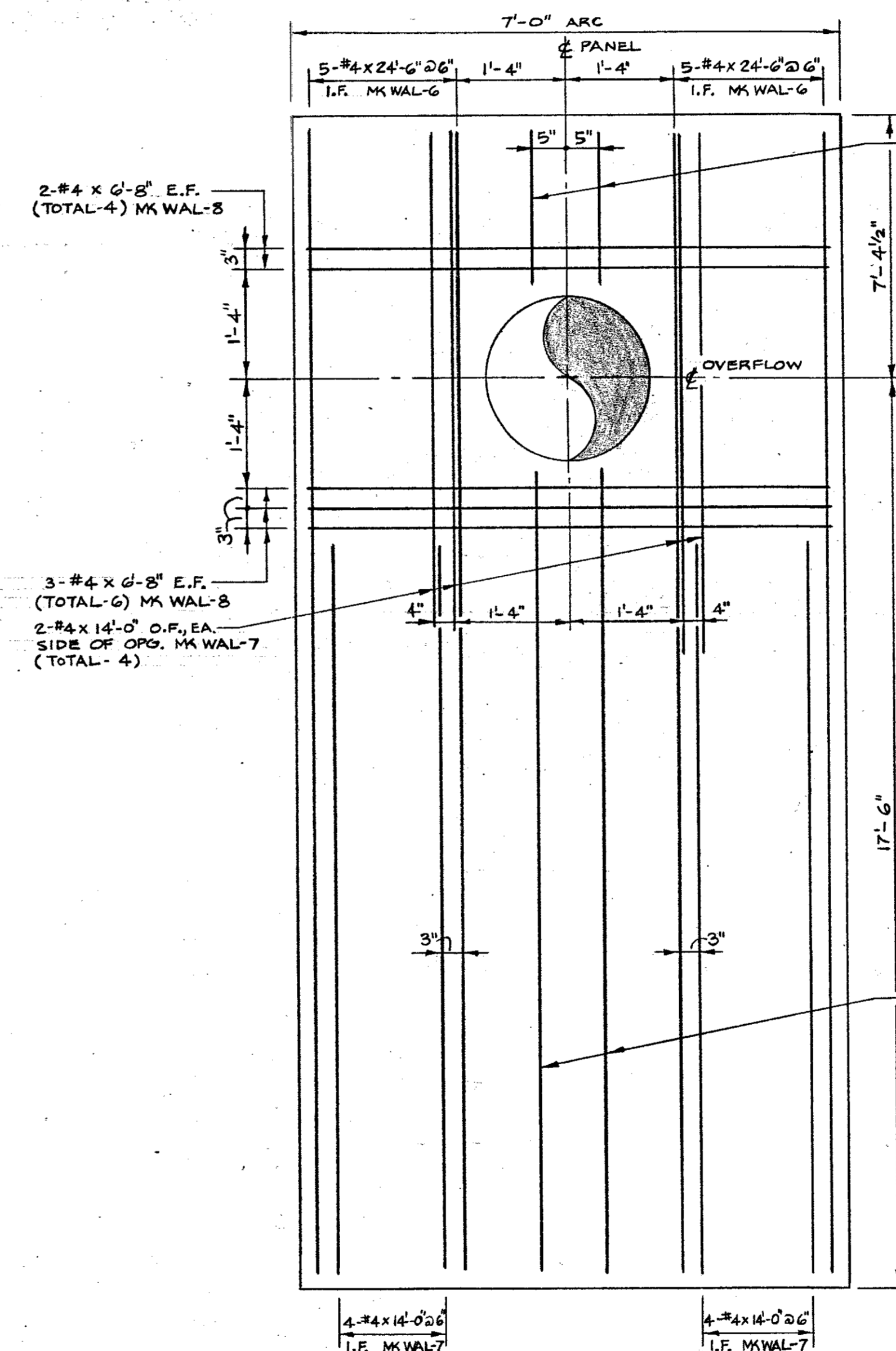
**SECTION B-B**



**SECTION A-A**

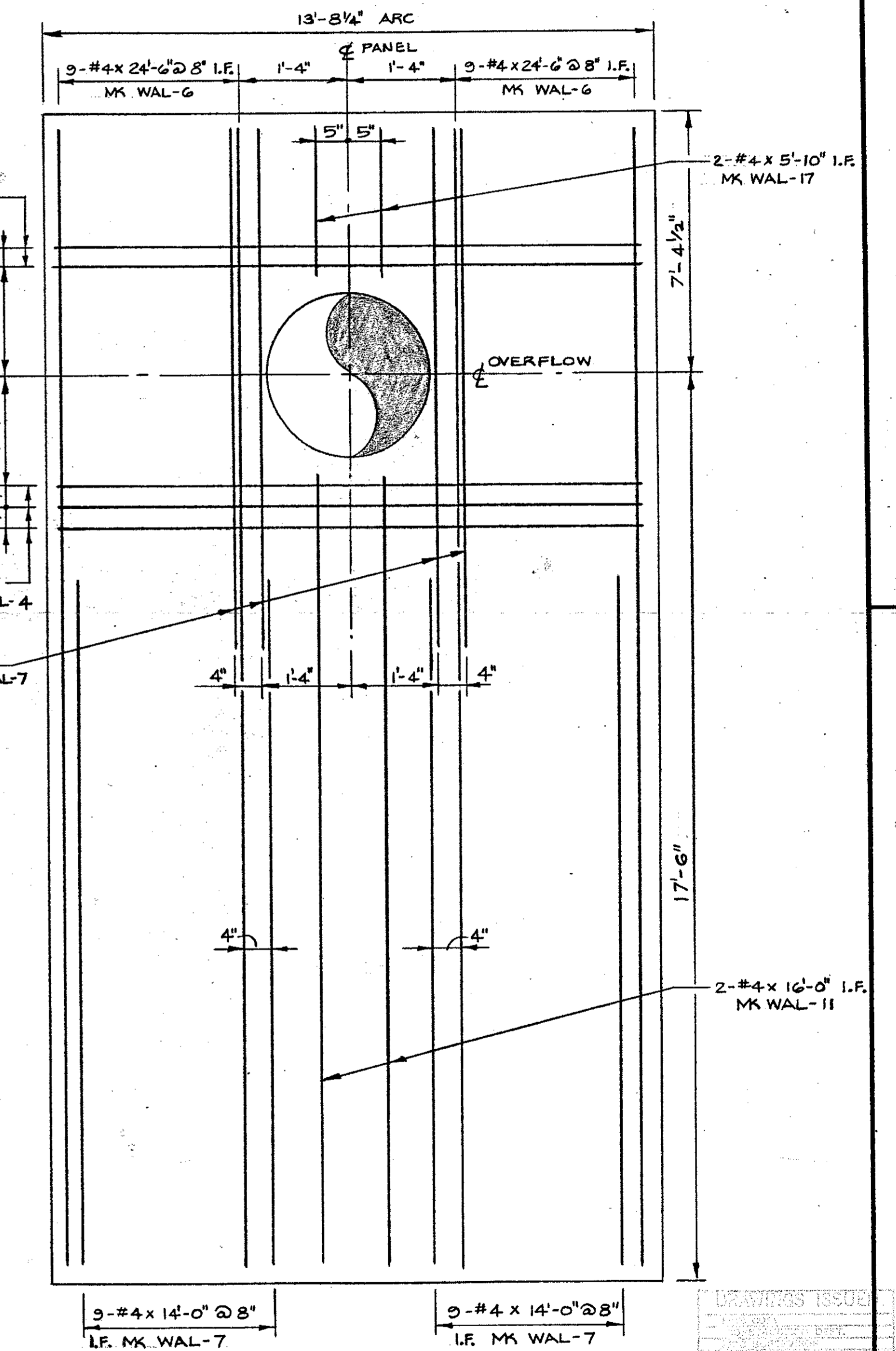
**ODD WALL PANEL ELEVATION**

(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	CKD
1	5/3/86	REVISED ODD WALL PNL ELEV. & NOTES ON OVERFLOW PANELS	EZ	ZAO



839 STEWART AVENUE, GARDEN CITY, NEW YORK, 11530

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ODD AND OVERFLOW PANELS			
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