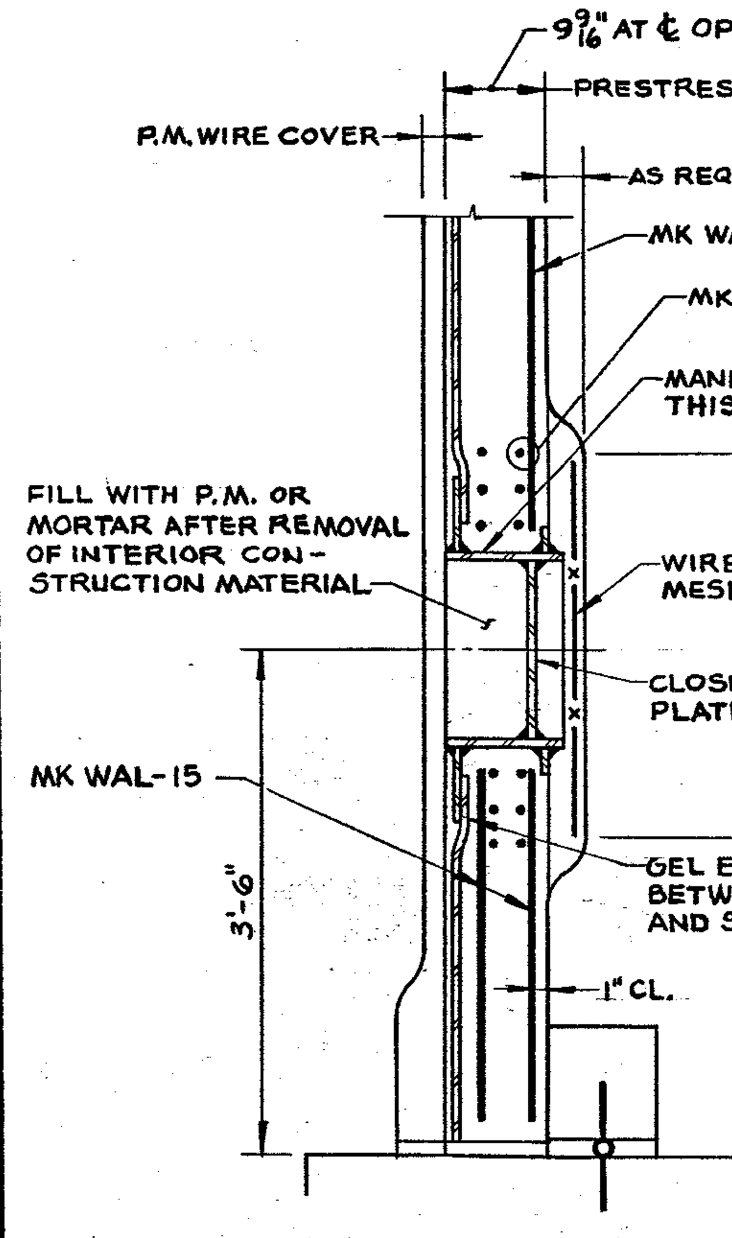
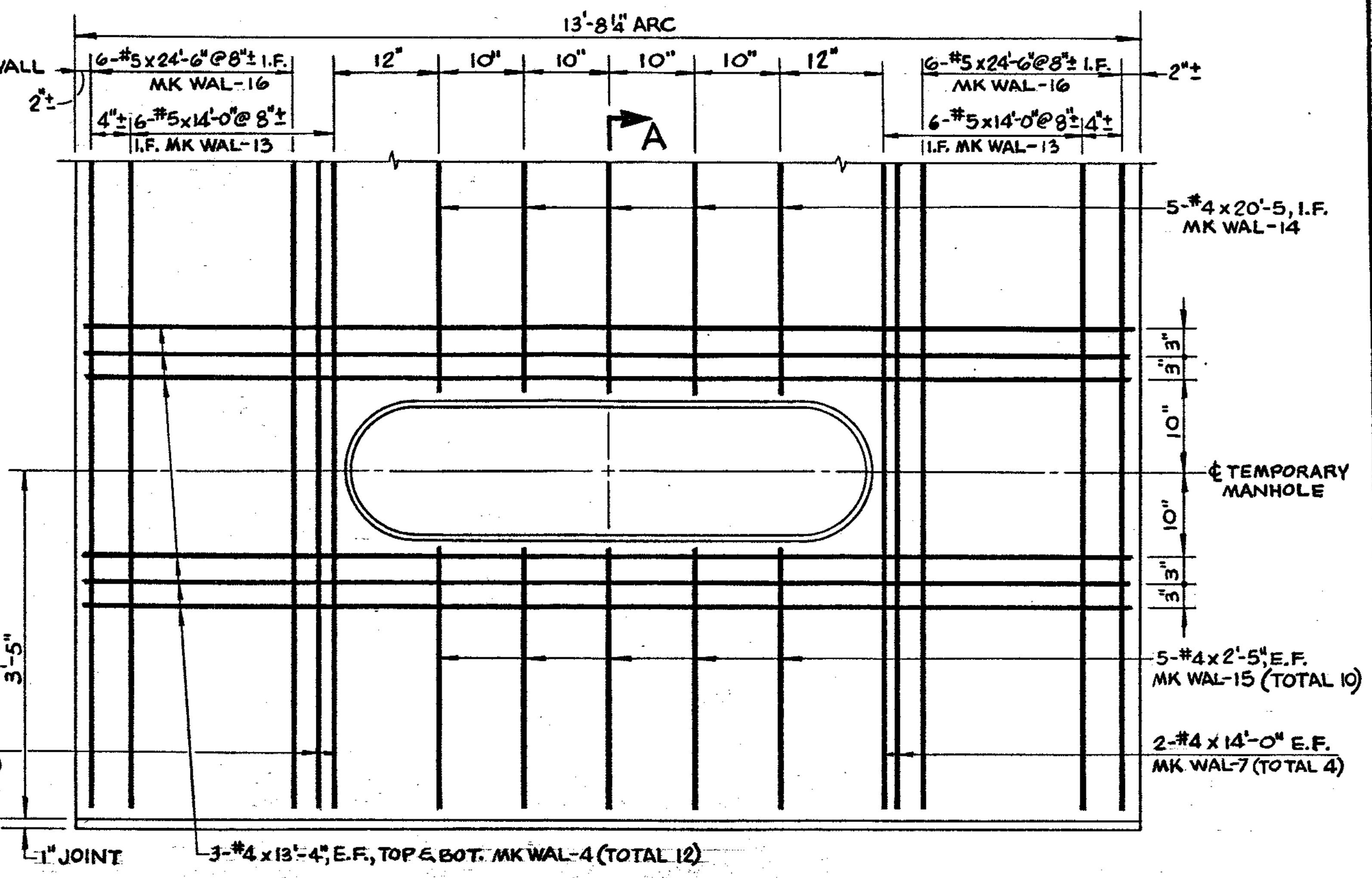
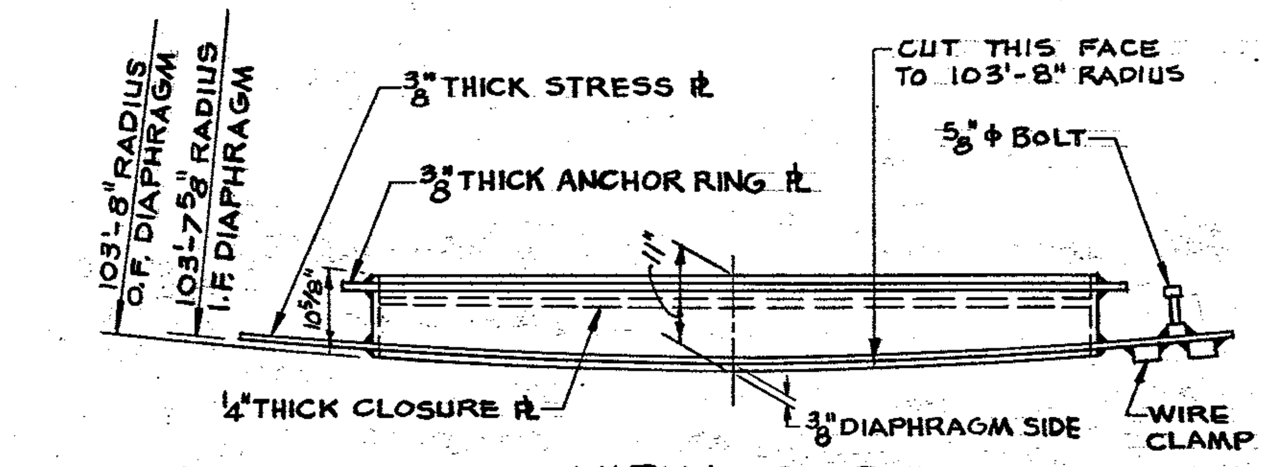


SECTION A-A

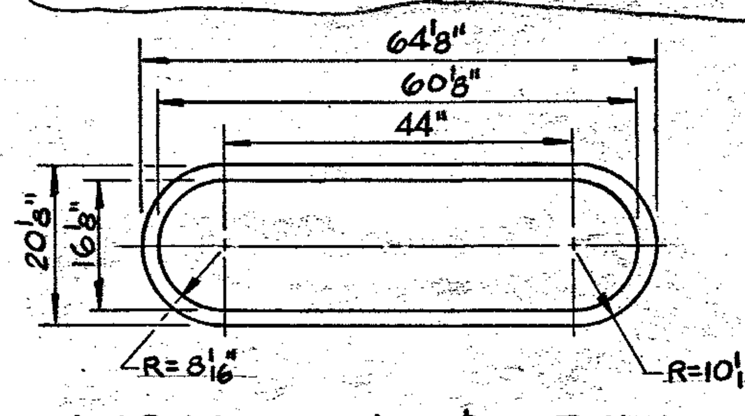


TEMPORARY MANHOLE PANEL

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

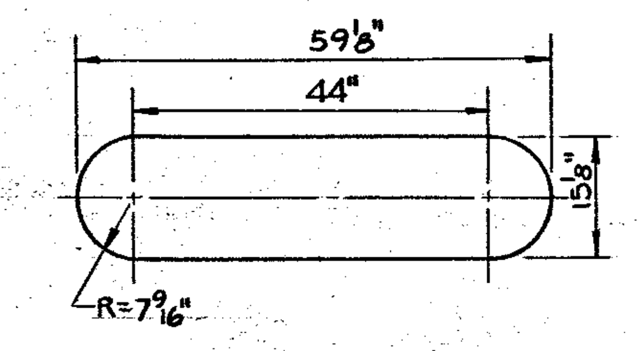


VIEW C-C



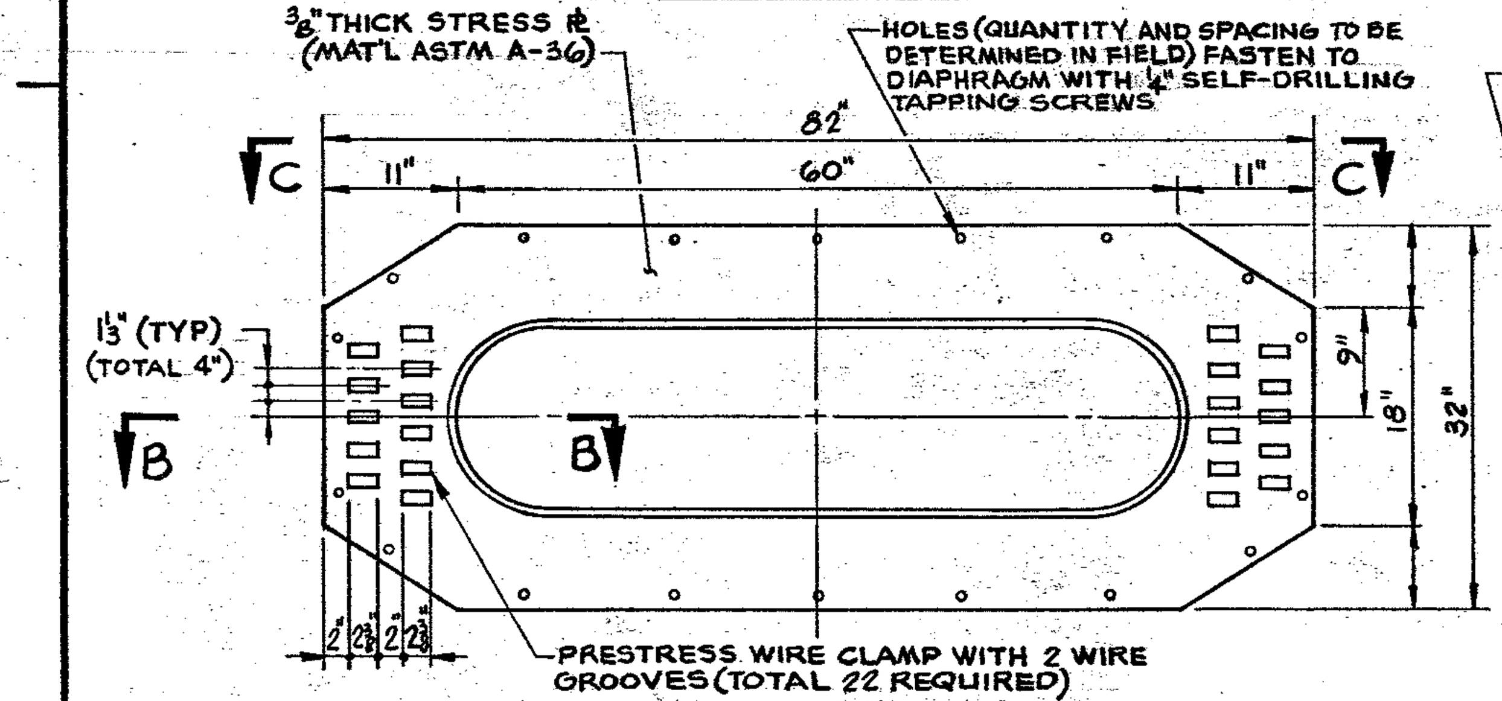
ANCHOR RING ℙ DETAIL

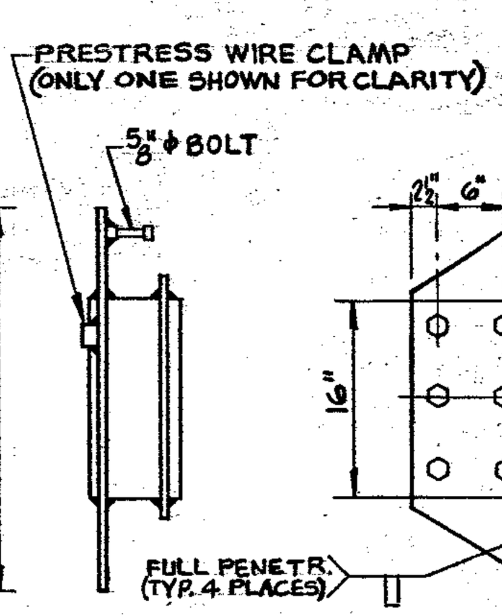
MATERIAL: 3/8" THICK ASTM A-36 STEEL ℙ
SCALE: ½"=1'-0"

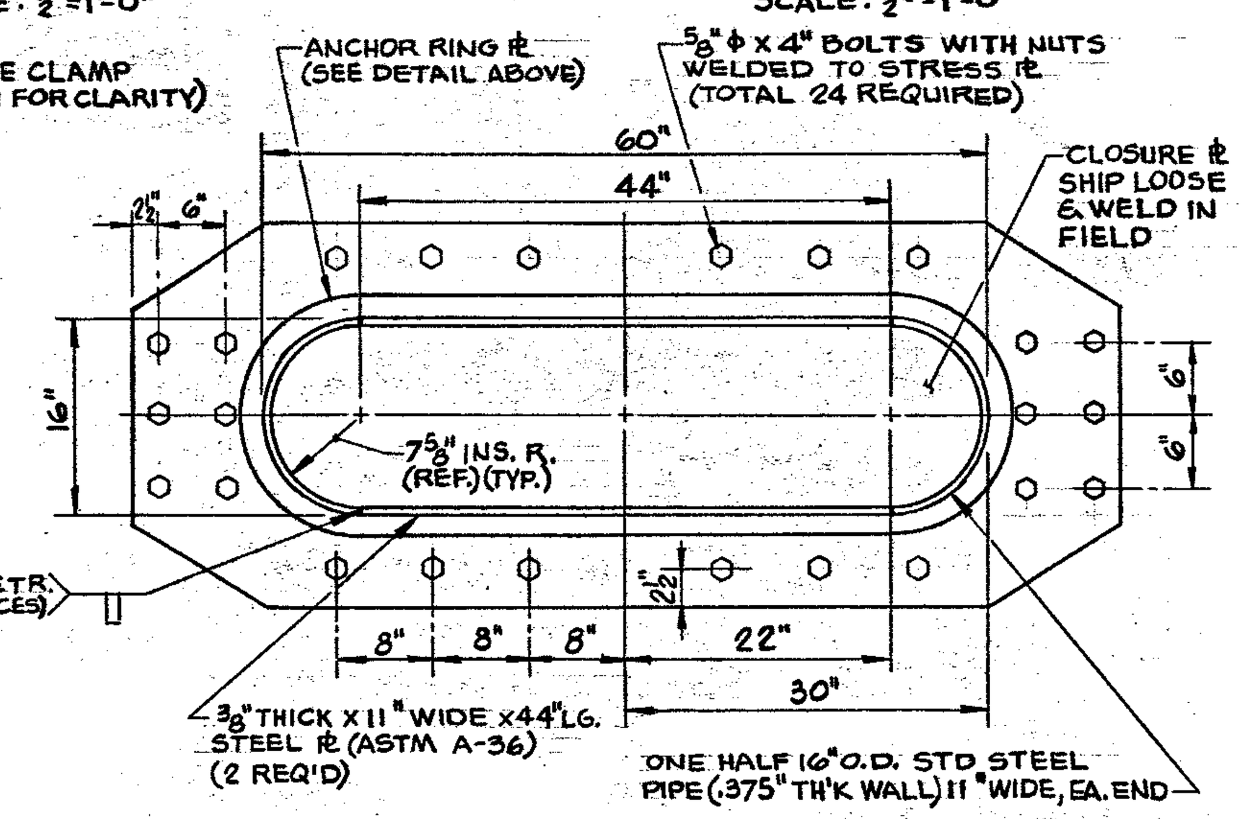


CLOSURE ℙ DETAIL

MATERIAL: ¼" THICK ASTM A-36 STEEL ℙ
SCALE: ½"=1'-0"



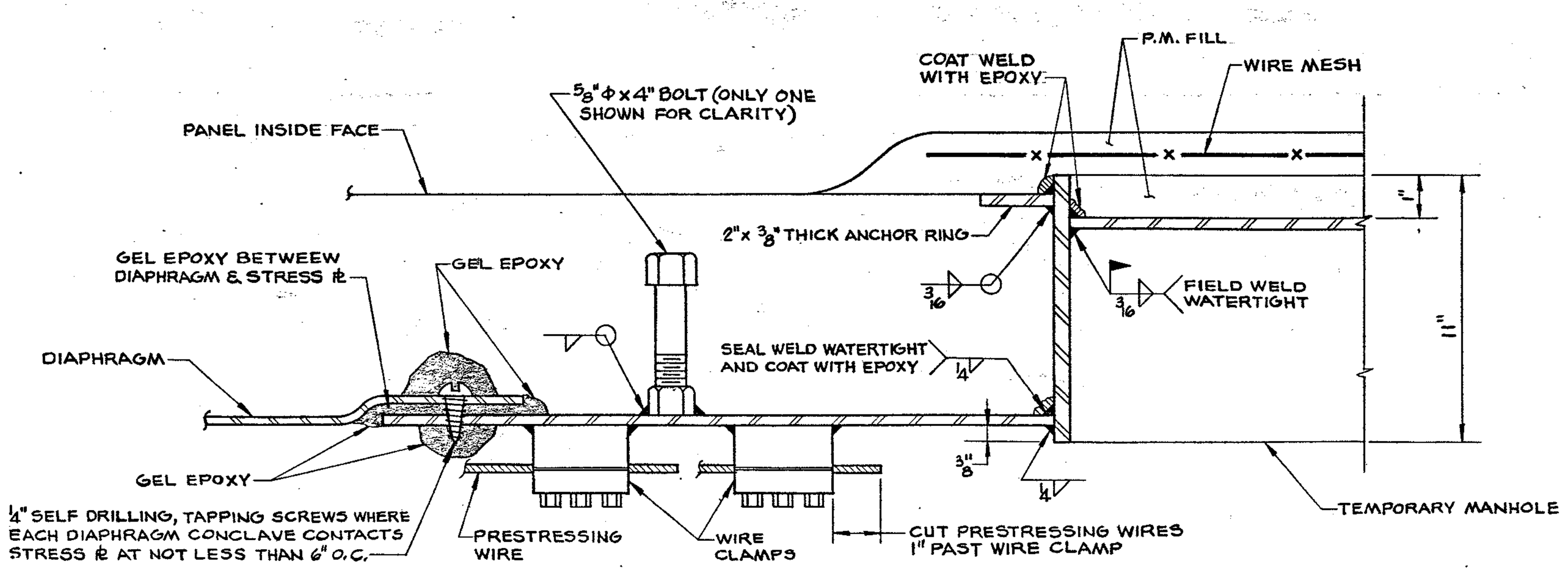




OUTSIDE FACE

INSIDE FACE

STRESS PLATE DETAILS



SECTION B-B

N. T. S.

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

MISC. IRON SCHEDULE

MK	QUANTITY DESIGN	QUANTITY ORDER	SIZE	LENGTH	WT. (LBS.)	SKETCH	LOCATION
ANC-2	10.8	11	1"x1"x¼" L (1.5 PLF)	20'-0"	390	FORMULA: TOTAL NO. & WAL-10 WAL-12 BARS / 2 x 0.58/20 (TO NEXT HIGHER 20')	PANEL JOINTS
ANC-3	8	8	¾" Φ	4'-7"	55	1'-6", 4", 1'-6"; 8"; STAINLESS STEEL	ROOF AT OVER FLOW
ANC-4	234	239	½" Φ	1'-4"	212	2½" THREAD; 9"; 7"	WATER STOP ENCASEMENT
ANC-5	4	4	½" Φ	2'-4"	6	2'-4"; 2½" THREAD	D.I. INLET PIPE
ANC-8	4	4	1" Φ	2'-9"	29	2'-0"; 9"; 6" THREAD	ROOF FOR WIREWINDER
ANC-9	4	4	1" Φ	6'-4"	68	2'-0"; 6"; 2'-0"; 12"	ROOF FOR WIREWINDER
ANC-10	8	9	5/8" Φ	4'-4"	41	4'-4"; 2½" THREAD	AT INLET PIPE

PRESTRESS WIRE QUANTITIES

PHASE	WALL WRAPS	WALL WEIGHT	DOME RING WRAPS	DOME RING WEIGHT	TOTAL	REMARKS
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	LFT OF WIRE/WRAP =
0.164 = 0.07188	206' + 2(0.71) x π = 652' I.D. + (2 x WALL THICK)

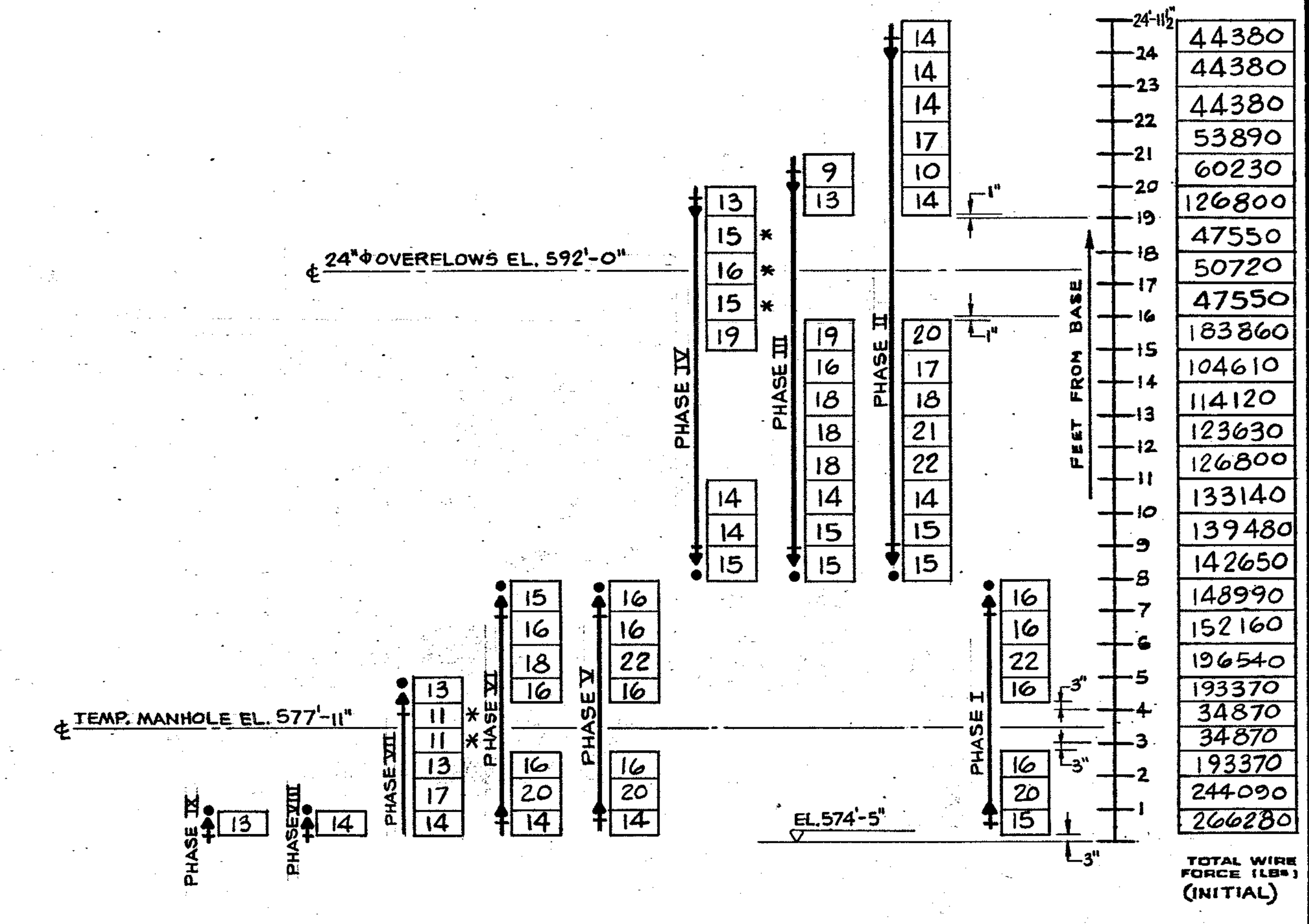
TOTAL OVERALL HEIGHT OF PRESTRESS PHASES = 73'

LEGEND

- • STOP AND COAT WIRE
- ▲ DIRECTION OF APPLICATION
- —DIE ON TOP OF MACHINE
- —DIE ON BOTTOM OF MACHINE
- * — WIRES ANCHORED TO STRESS ℙ

TEMPORARY MANHOLE PRESTRESSING PROCEDURE

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



WIREWINDING SCHEDULE

NOTES:

1. 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.
2. INITIAL FORCE IN WIRE (BASED ON SIZES INDICATED):
   WALL ____ 3170 LBS.
3. INITIAL UNIT STRESS IN WIRE NOT TO EXCEED 155,000 P.S.I.
4. PROVIDE ONE INCH PNEUMATIC MORTAR PROTECTIVE COVER OVER OUTERMOST LAYER OF WIRES.
5. WIREWINDING SEQUENCE SHOWN SHOULD NOT BE ALTERED WITHOUT PRIOR APPROVAL BY PRELOAD ENGINEERS.

WORKING DRAWING

REVISIONS				
NO.	DATE	DESCRIPTION	BY	CKD
⚠	5/13/86	REV. NOTE - TEMP. MANHOLE PANEL	E	RAO

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: TEX 83-007-3
CHECKED: RAO	DATE: 4-24-86	