

REV.	BY	DATE	DESCRIPTION
1	1	12-15-67	INITIAL DESIGN
2	2	12-15-67	REVISED DESIGN
3	3	12-15-67	REVISED DESIGN
4	4	12-15-67	REVISED DESIGN
5	5	12-15-67	REVISED DESIGN
6	6	12-15-67	REVISED DESIGN
7	7	12-15-67	REVISED DESIGN
8	8	12-15-67	REVISED DESIGN
9	9	12-15-67	REVISED DESIGN
10	10	12-15-67	REVISED DESIGN
11	11	12-15-67	REVISED DESIGN
12	12	12-15-67	REVISED DESIGN

NOTE:
SECTION A A SHOWN
ON DRAWING D-30157

WELDING NECK FLANGE ⑧
INLET (UPPER SECTION)

1" - 150# SLIP NECK FLANGE ⑨
STEAM INLET (RTM SECTION)
FOR MELTING CONDENSATE
TO EMPTY TRAP
USE 40 PSI SATURATED
STEAM

VACUUM GAUGE
CONNECTION
1/4" - 150# COUPLING

COND. OUT
1" FLANGE

DRAIN ⑪

1" WELDING NECK FLANGE ⑧
OUT (UPPER SECTION)
FOR CONDENSING VAPORS NOT
CONDENSED ON CONDENSER IN
STILL BODY. USE +10°F
BRINE SOLUTION

⑧ COND. OUT HEAD TO BE
FLANGED WITH 1" WELDING NECK
FLANGES.
FOR CONDENSING OF VAPORS
NOT CONDENSED ON CONDENSER
IN STILL BODY. USE +10°F
BRINE SOLUTION

5'-0" (60")

4'-9" (57")

4'-1 3/8" (49 3/8")

2'-6" N.T.S.

COIL IN - JACKET COOLING ⑫

STEAM IN.
1" SLIP NECK
FLANGE

⑪ 2" FLANGE
DRAIN LINE

1" - 150# FLANGE
WELDING NECK
1" TO 3/4" SCH 10 REDUCING TEE
1" PIPE SCH 10
3/4" PIPE SCH 10
3/4" LONG RADIUS ELBOW
SCH 10
3/4" O.D. TUBING

⑫ COIL OUT - JACKET COOL
1" - 150# FLANGE, 1" TO 3/4" SCH 10
REDUCING TEE, 3/4" L.R. ELBOW
SCH 10, 1" PIPE SCH 10, 3/4" O.D. TUBING

1" PAD BETWEEN
SUPPORT & STRUCTURAL SUPPORTS

FINAL ASSEMBLY 30" COLD TRAP

NOTE:
SEE DRAWING D-30157
SECTION A-A FOR LEFT HAND TRAP (3REQ'D)
SEE C-30138 B FOR RIGHT HAND TRAP ORIENTATION

WEIGHT EMPTY: 1170#
WEIGHT OPERATING: 1270#
1" INSULATION BY PURCHASER

COND. OUT
1" SLIP NECK
FLANGE

HOFFMANN LA ROCHE
PROJECT 66
BELVIDERE, N.J.
HLR ORDER NO. E-2806768
MCKEE P.O. MCK. 3726-57
POSITION: B3-3645 + B3-3649 + B3-3650
FOR LEFT HAND TRAP
B3-3646 + B3-3650 + B3-3657. FOR
RIGHT HAND TRAP
MCKEE DWG. NO. 3600-5

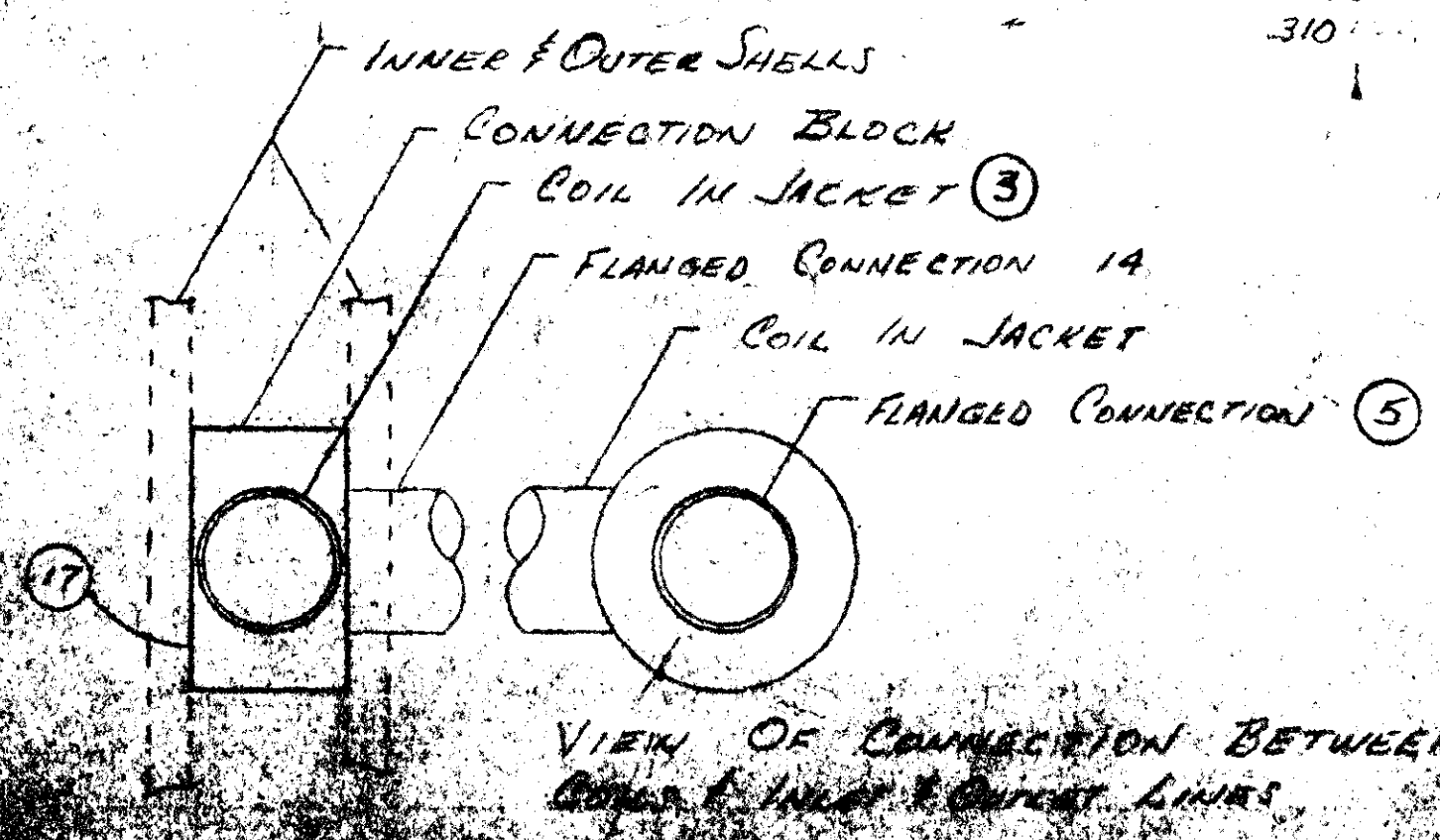
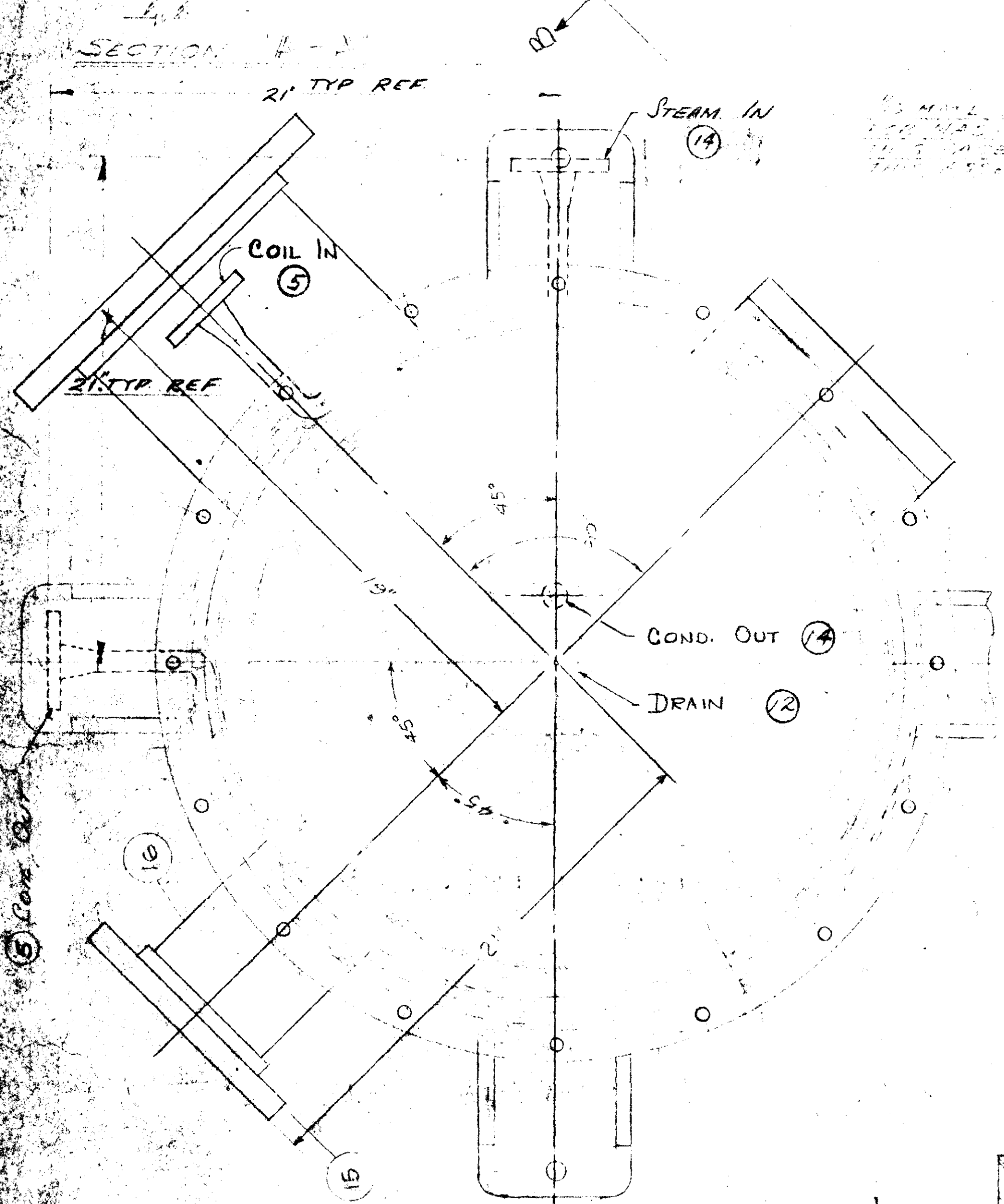
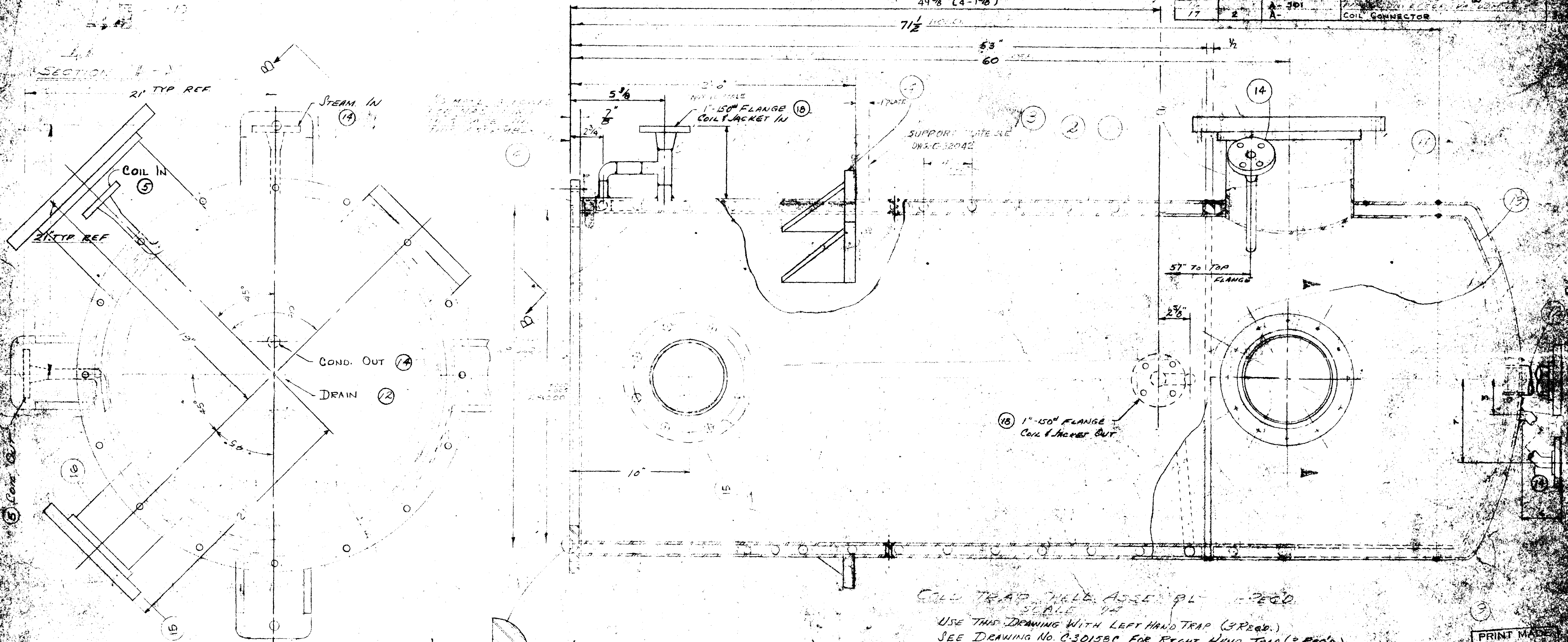
REVISIONS	ARTHUR F. SMITH
A-6-22-70	
B-FLANGE ALL NUTS & BOLTS 1/4" M.C.	

PRINT MADE
MAY 26 1971
ARTHUR G. MCKEE & CO.

#99631

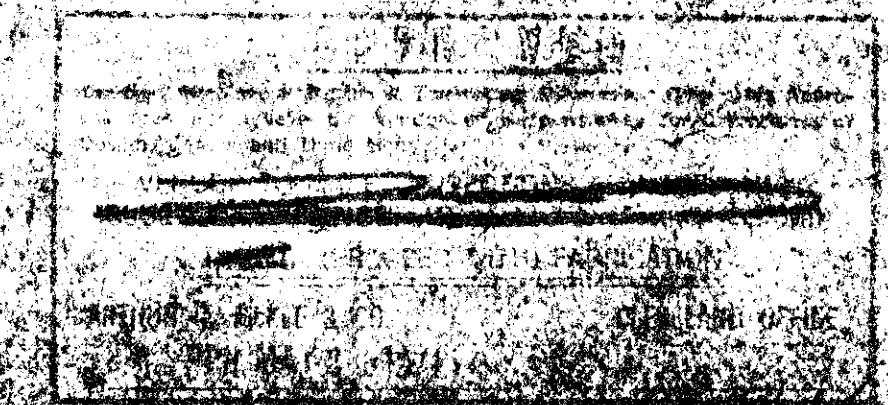
DET. NO.	REQD.	DWG. NO.	DESCRIPTION	SHEET	NO. NO. REQD.	DWG. NO.	DESCRIPTION
18	2	1	COIL JACKET FLANGES	30430	1	1	FLANGE
					2	1	FLANGE
					3	1	FLANGE
					4	1	FLANGE
					5	1	FLANGE
					6	1	FLANGE
					7	1	FLANGE
					8	1	FLANGE
					9	1	FLANGE
					10	1	FLANGE
					11	1	FLANGE
					12	1	FLANGE
					13	1	FLANGE
					14	1	FLANGE
					15	1	FLANGE
					16	1	FLANGE
					17	2	COIL CONNECTOR

ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED
SEE DETAIL DRAWINGS



COLD TRAP, WELD ASSEMBLY - 2000
SCALE 1/4\"/>

HOFFMANN LA. ROCHE
PROJECT 66
BELVIDERE, ILL.
H.L.R. ORDER NO. E-2806762
MKTG. PO. BOX 3124 ST. LOUIS, MO.
POSITION

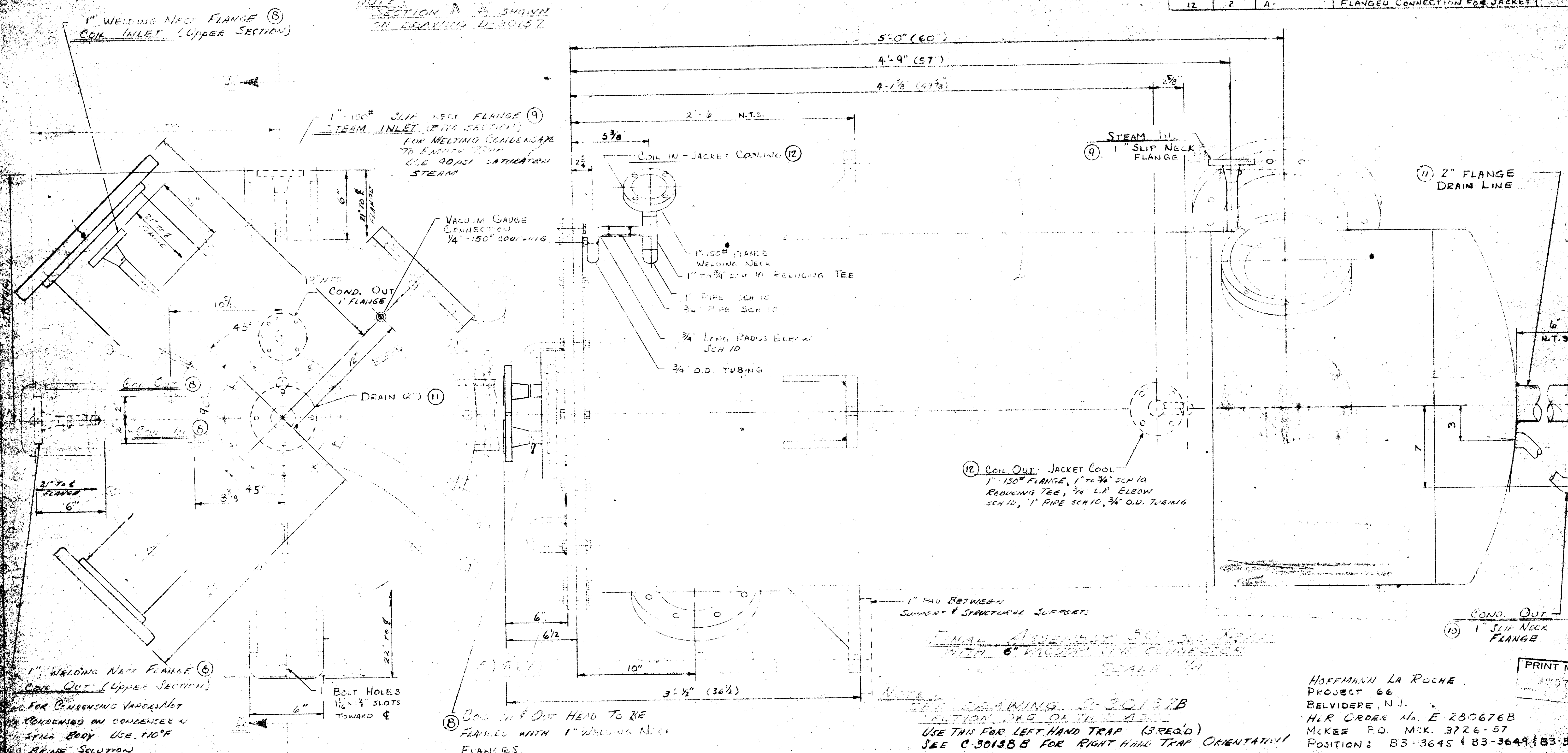


- NOTE:
1. ALL FLANGES TO BE
 2. HOFFMANN LA. ROCHE
 3. NOZZLES TO BE
 4. NOZZLES TO BE

FREEZE
TRAP

ITEM NO.	QTY	DWG NO.	DESCRIPTION
1	1	A-30144A	FLANGED CONNECTION FOR COILS (1)
2	1	A-30168A	FLANGED CONN FOR STEAM IN (1)
3	1	A-30168B	FLANGED CONN FOR COND OUT (1)
4	1	A-	FLANGED CONN FOR DRAIN (1)
5	1	A-	FLANGED CONNECTION FOR JACKET

NOTE:
SECTION A-A SHOWN
ON DRAWING C-30157



(8) COIL IN & OUT HEAD TO BE
FLANGED WITH 1" WELDING NECK
FLANGES
FOR CONDENSING OF VAPORS
NOT CONDENSED ON CONDENSER
IN STILL BODY. USE +10°F
BRINE SOLUTION

NOTE:
SEE DRAWING C-30157B
SECTION DWG OF THE BASE
USE THIS FOR LEFT HAND TRAP (3REG'd)
SEE C-30158B FOR RIGHT HAND TRAP ORIENTATION

WEIGHT EMPTY: 1170#
WEIGHT OPERATING: 1270#
INSULATION BY PURCHASER

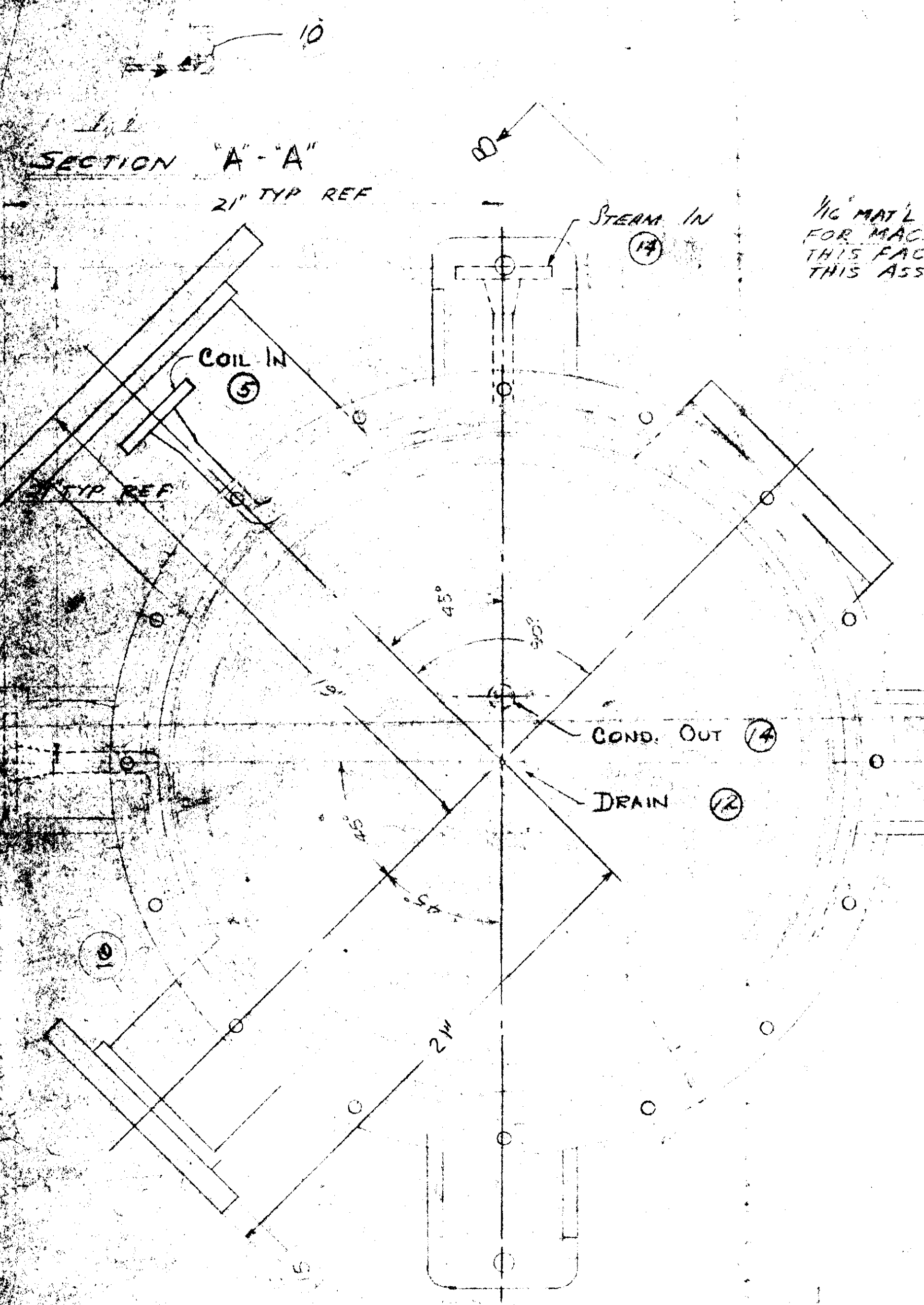
HOFFMANN LA ROCHE
PROJECT 66
BELVIDERE, N.J.
HLR ORDER NO. E-280676B
MCKEE P.O. MCK. 3726-57
POSITION: B3-3645 & B3-3649 & B3-3656
FOR LEFT HAND TRAP
B3-3646 & B3-3650 & B3-3657 FOR
RIGHT HAND TRAP
MCKEE DWG NO. 3600-5

A-6-22-70	ARTHUR T. EMERY
B-FLANGE M.C.	
MCKEE P.O.	
MCKEE P.O.	

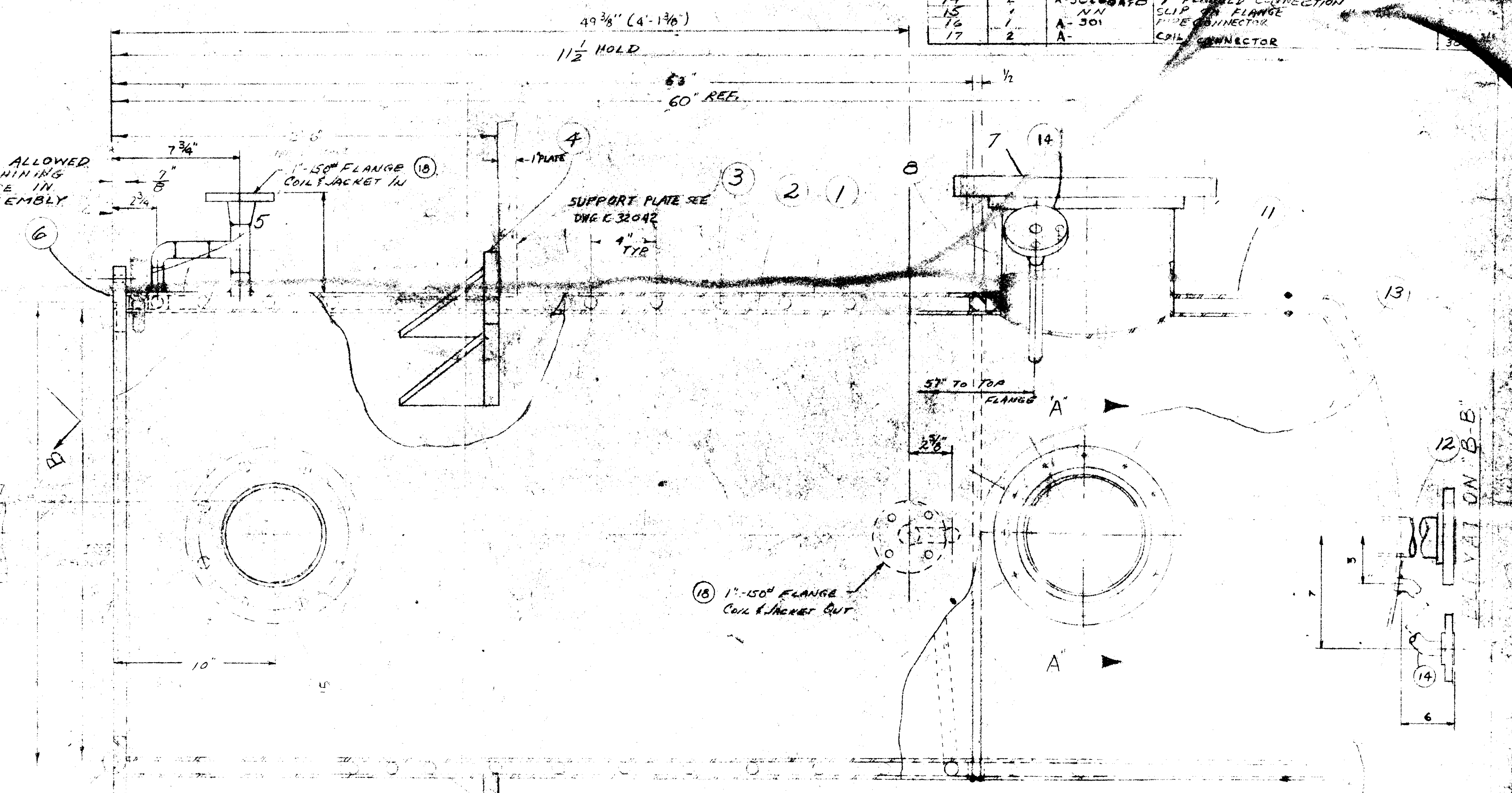
PRINT MADE
MCKEE 571971

DET NO	PER	DWG NO.	DESCRIPTION	SPECS	DET NO	REC'D	DWG NO.	DESCRIPTION	304 35
18	2	A-	COIL JACKET FLANGES	304 35	1	1	D-30159	CYLINDER OUTER SHELL	
					2	1	D-30160	ASS. INNER CYLINDER	
					3	1	N.N.	TUBING	304 35
					4	1	B-30143	MOUNTING BRACKET	
					5	2	A-30144A	PIPE CONN. (1" FLANGE)	304 35
					6	1	C-30145	TOP FLANGE	
					7	1	N.N.	SLIP ON FLANGE 150"	304 35
					8	1	B-30146	PIPE CONNECTOR	
					9	1	C-30147	WELDING CAP OUTER SHELL	
					10	1	B-30148	SIGHT GLASS HOUSING	
					11	1	B-30156	CYLINDER OUTER SHELL	
					12	1	A-N.N.	2" FLANGE CONNECTION	304 35
					13	1	C-30154	WELD CAP INNER SHELL	
					14	2	A-30168A/B	1" FLANGED CONNECTION	
					15	1	N.N.	SLIP ON FLANGE	
					16	1	A-301	PIPE CONNECTOR	
					17	2	A-	COIL CONNECTOR	304 35

NOTE
ALL WELDING TO BE
ACCOMPLISHED PER
ASME SPECIFICATIONS

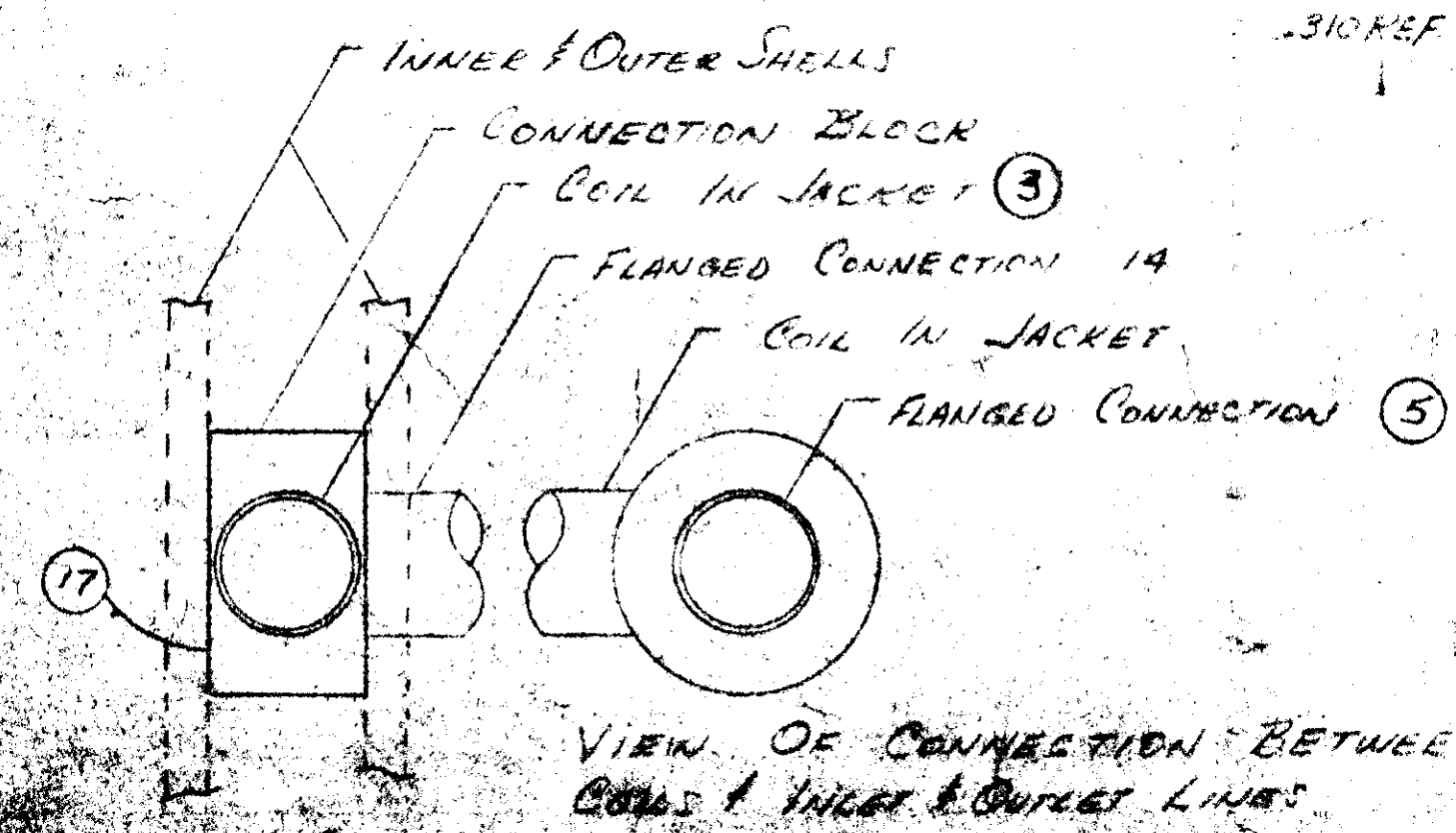


1/16\"/>



COLD TRAP SHELL ASSEMBLY 1-REQ'D
SCALE 1/4\"/>

USE THIS DRAWING WITH LEFT HAND TRAP (2-REQ'D)
SEE DRAWING NO C30158C FOR RIGHT HAND TRAP (2-REQ'D)
NEXT ASSEMBLY D-30138B & D-30157B
HOFFMANN LA ROCHE
PROJECT 66
BELVIDERE, N.J.
HLR ORDER NO. E-280676B
MCKEE CO. MCK 3726-57
POSITION:
LEFT HAND TRAP - B3-3645 & B3-3649 & B3-3656
RIGHT HAND TRAP - B3-3646 & B3-3630 & B3-3657
MCKEE DWG NO. 3726-57



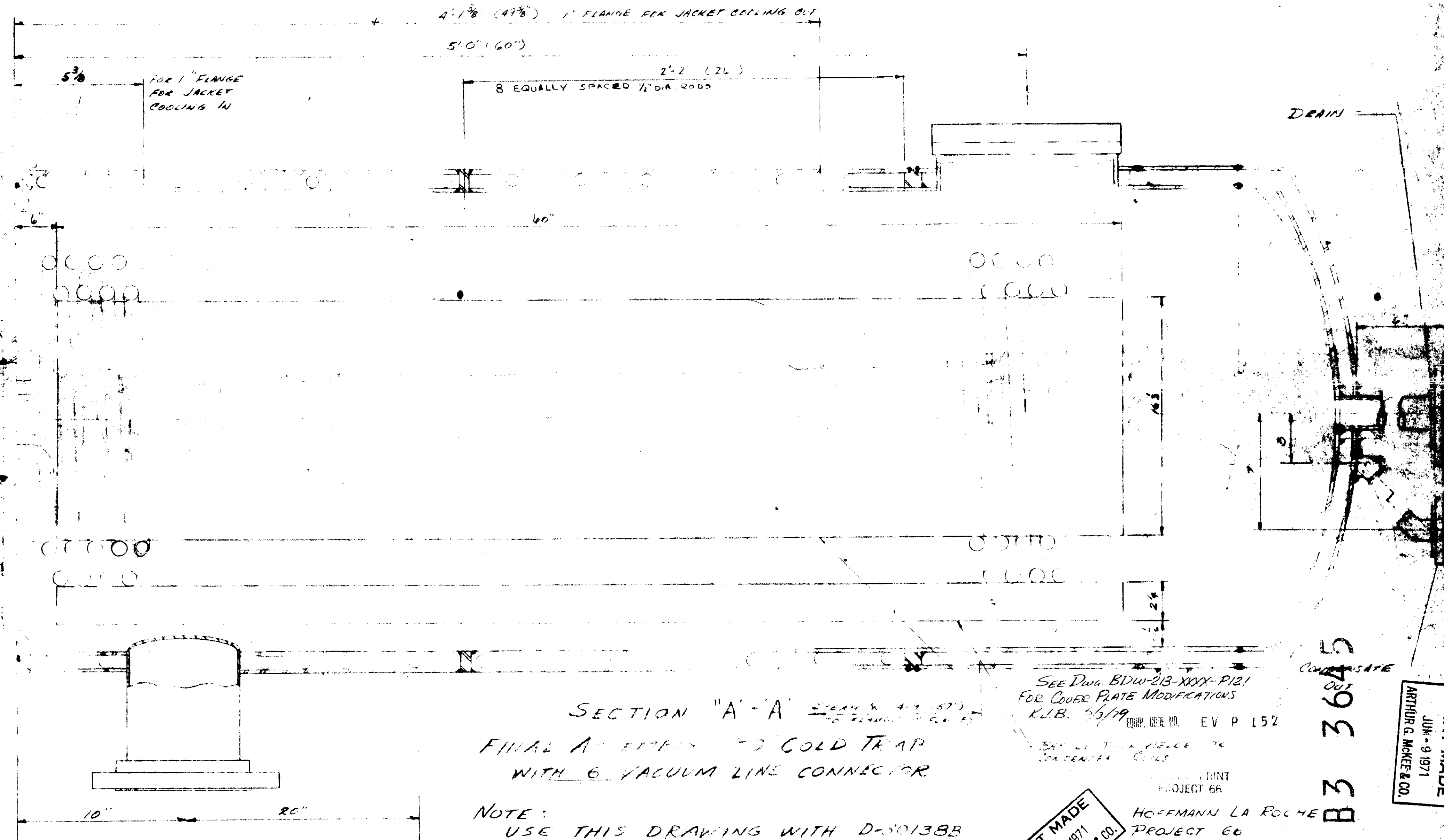
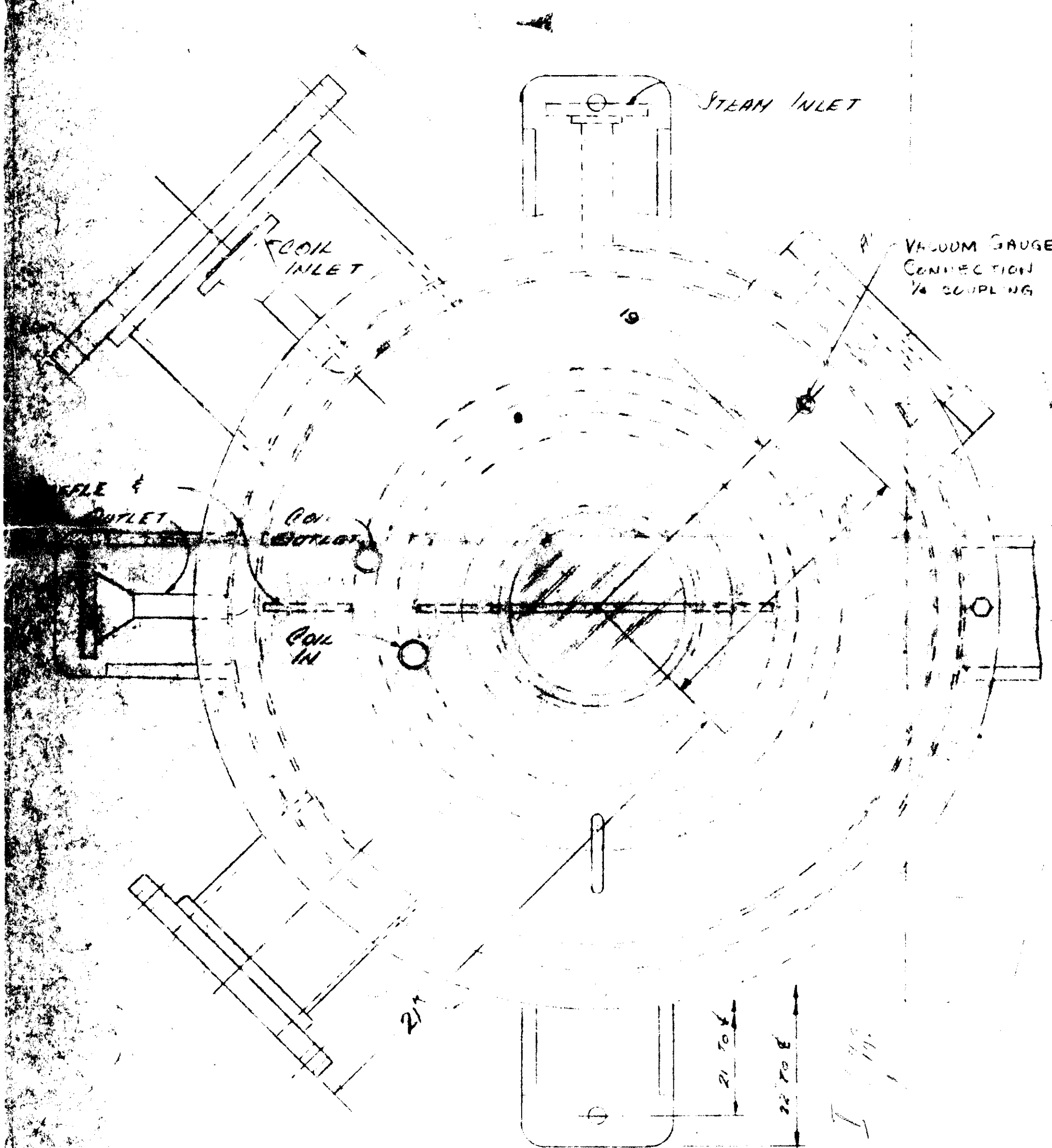
- NOTE:
1. ALL FLANGES PROTRUDE 6" TO FLANGE FACE
 2. MOUNTING BOLT HOLE 1" DIA.
 3. NOZZLES #1/4" PIPE WITH 1" SLIP NECK FLANGES
 4. NOZZLE #1/2" & PIPE WITH 2" SLIP NECK FLANGES

PRINT MADE
JUN 9 6 1971
ARTHUR C. MCKEE

NOTE:

- ALL FLANGES WILL EXTEND 6" TO FLANGE FACE
- WELD NECK FLANGES (1") WILL BE USED ON COILS IN JACKET & THIMBLE, & STEAM LINE
- SLIP ON FLANGES WILL BE USED ON DRAIN & CONDENSATE LINE.

OF NO.	REQ'D	DWG. NO.	DESCRIPTION
1	1	D-301388	STEAM & THIMBLE ASSEMBLY
2	2	2-1	STEAM RING 20" O.D. 1/2" THICK
3	3	3-1	STEAM RING 20" O.D. 1/2" THICK
4	4	4-1	STEAM RING 20" O.D. 1/2" THICK
5	5	5-1	STEAM RING 20" O.D. 1/2" THICK



SECTION "A-A"
FINAL A-A WITH COLD TRAP
WITH 6 VACUUM LINE CONNECTOR

- NOTE:**
- USE THIS DRAWING WITH D-301388
 - USE THE LIFTING POINTS TO HOLD THE COVER PLATE IN PLACE
 - ROTATE 10° NOSE FOR EASY HANDLING (SEE B-24)
 - BAFFLE ROTATES 180° TO ALLOW FOR DRAINAGE
 - IN COIL ALWAYS WITH TEN PPS. GRAM

RESTRICT PRESSURES ON STEAM JACKET AND COOLING JACKET TO 80 PSI.

PRINT MADE
 JUN - 9 1971
 ARTHUR G. MCKEE & CO.

HOFFMANN LA ROCHE
 PROJECT 60
 BELVIDERE N.J.
 H.L.R. ORDER No. E-280676 B
 MCKEE P.O. MCK 3726-57
 POSITION

LEFT - B3-3645/B3-3649/B3-3650
 RIGHT - B3-3646/B3-3650/B3-3652

A - 6-22-70
 B - ORIENTATE
 CHANGE NO. 28
 M.W. N.E.E.

EVP-152

PRINT MADE
 JUN - 9 1971
 ARTHUR G. MCKEE & CO.

B3 3645