

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

COIL IN - JACKET COOLING ⑫
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

STEAM IN.
1" SLIP NECK
FLANGE

2" FLANGE
DRAIN LINE

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

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

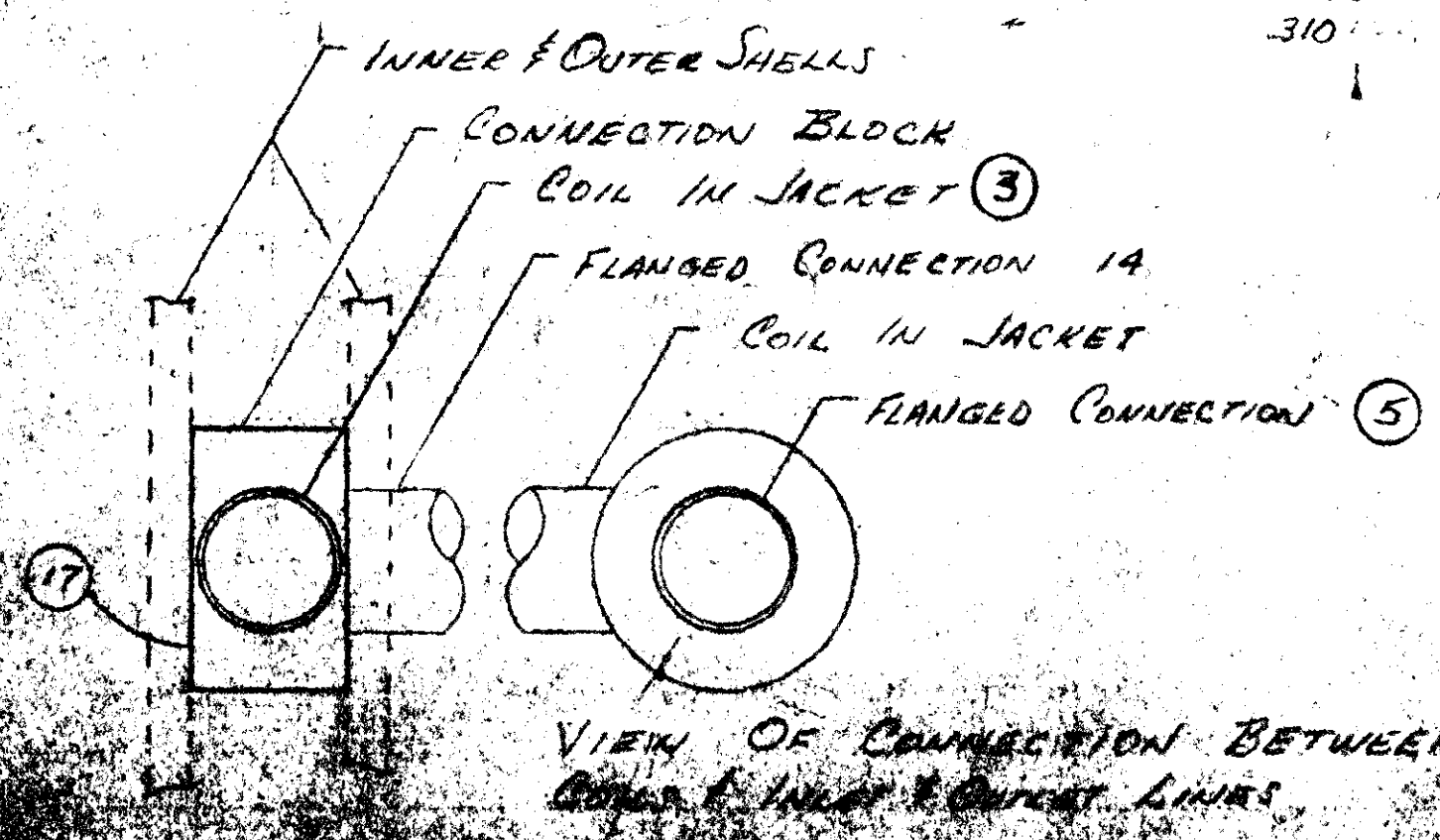
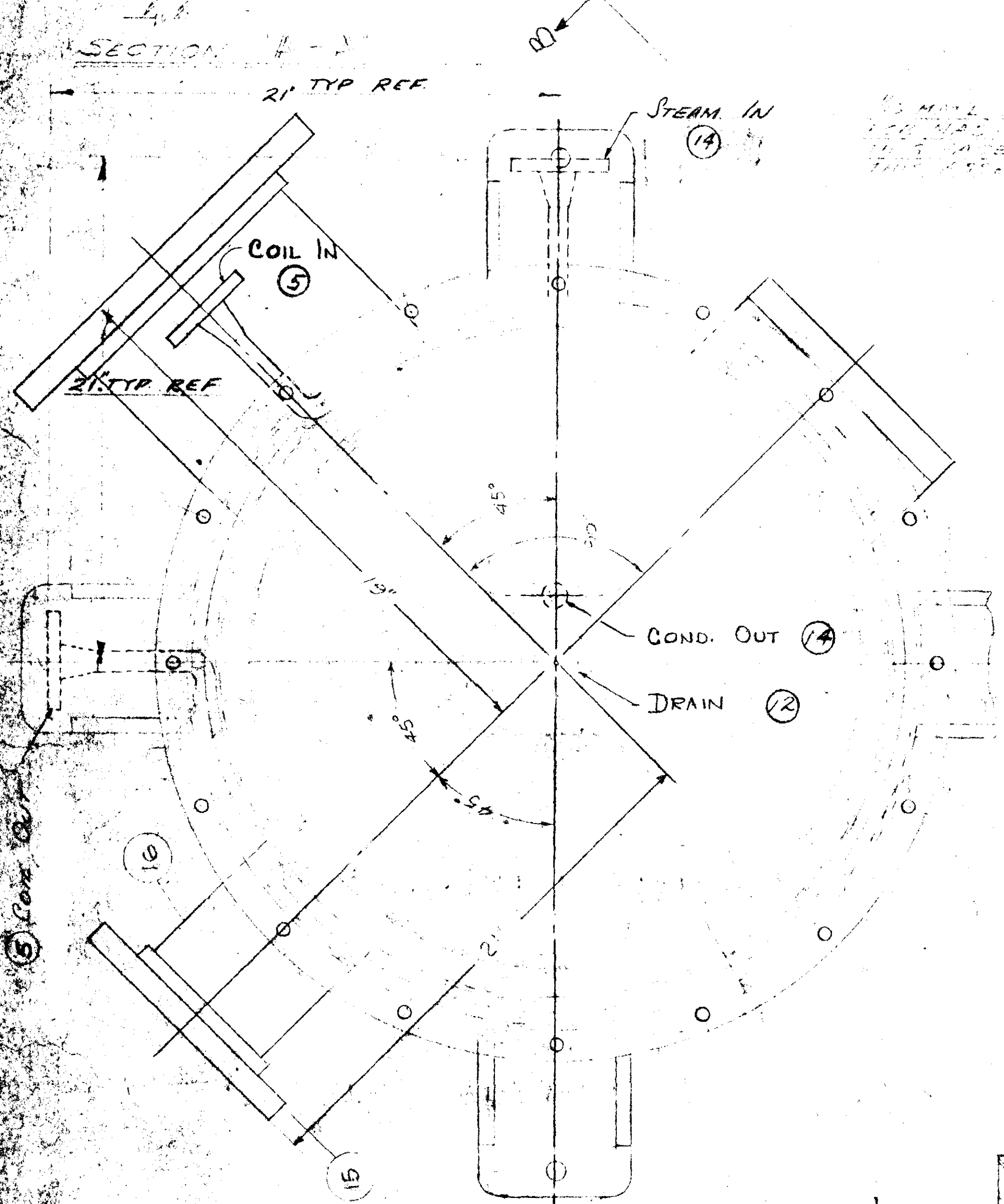
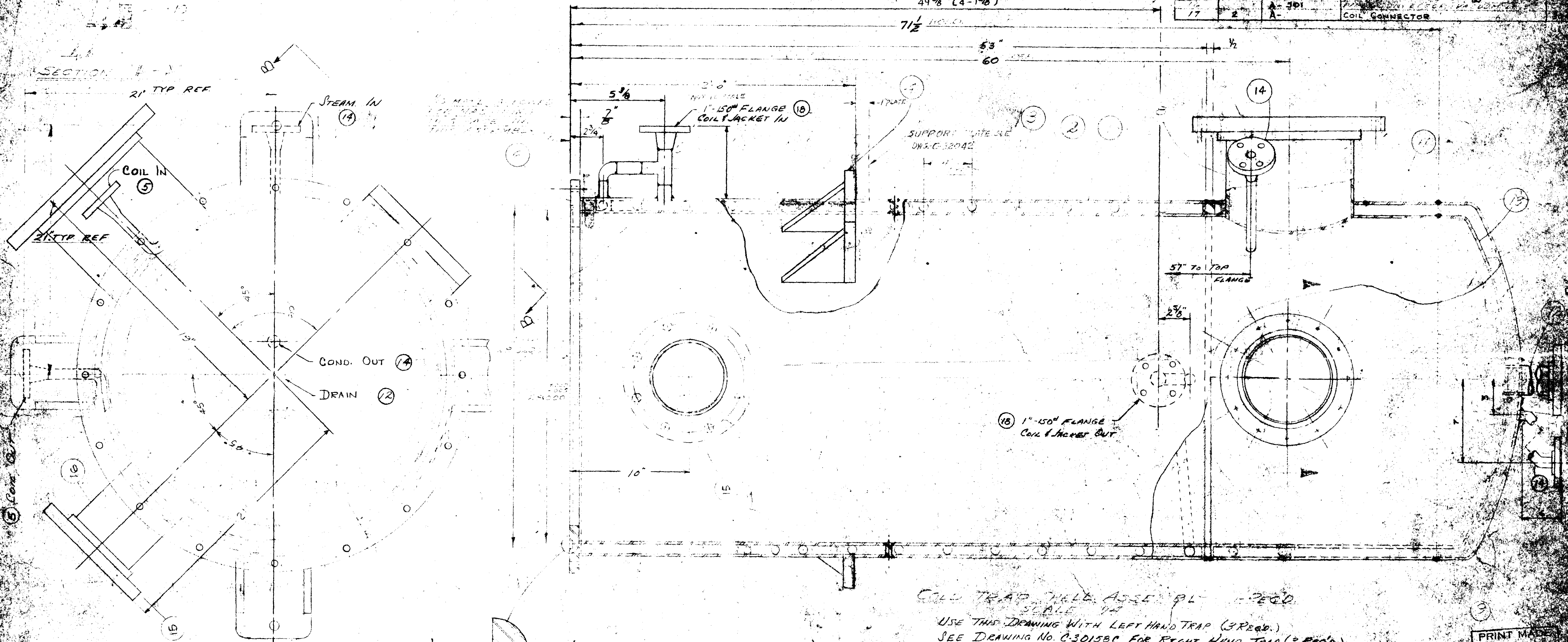
HOFFMANN LA ROCHE
PROJECT 66
BELVIDERE, N.J.
HLR ORDER NO. E-280676B
MCKEE P.O. MCK. 3726-57
POSITION: B3-3645 + B3-3649 + B3-3650
FOR LEFT HAND TRAP
B3-3646 + B3-3650 + B3-3657. FOR
RIGHT HAND TRAP
MCKEE DWG. NO. 3600-5

PRINT MADE
MAY 26 1971
ARTHUR G. MCKEE & CO.
REVISIONS:
A 6-22-70
B FLANGE ALL
NUTS & BOLTS 1/4"
M.C.

#99631

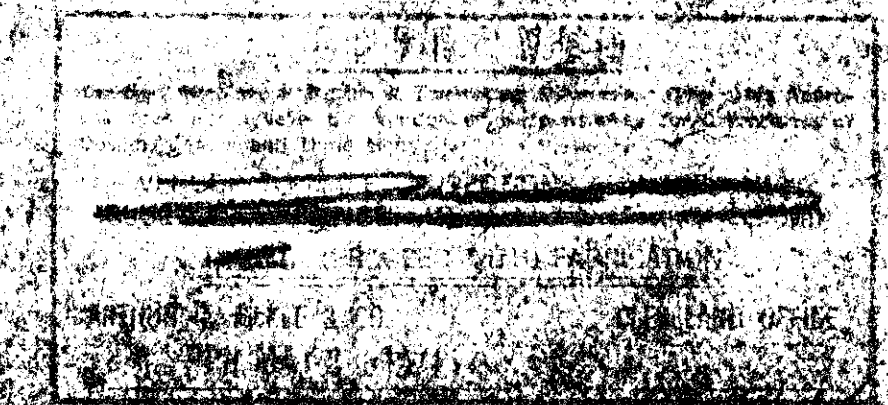
DET NO	REQD	DWG NO	DESCRIPTION	QTY	DET NO	REQD	DWG NO	DESCRIPTION	QTY
18	2	A	COIL JACKET FLANGES	30430	1	1	A	FLANGE	1
					2	1	A	FLANGE	1
					3	1	A	FLANGE	1
					4	1	A	FLANGE	1
					5	1	A	FLANGE	1
					6	1	A	FLANGE	1
					7	1	A	FLANGE	1
					8	1	A	FLANGE	1
					9	1	A	FLANGE	1
					10	1	A	FLANGE	1
	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

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.
HLP ORDER NO. E-2806762
MKTG. PO. BOX 3124 ST.
PETERSBURG, VA.

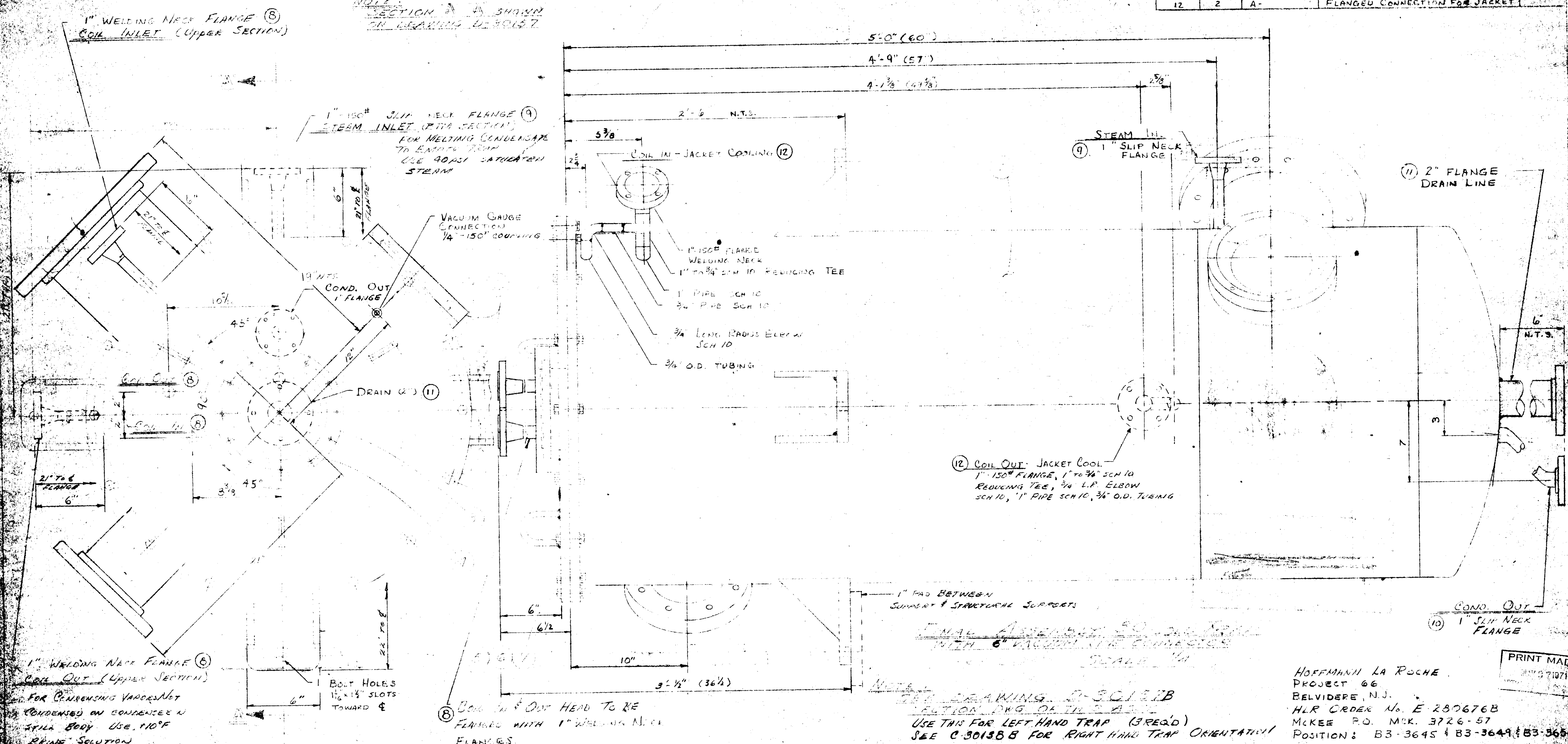


- NOTE:
1. ALL FLANGES TO BE
 2. HOFFMANN LA ROCHE
 3. NOZZLES 1/2\"/>

FREEZE
TRAP

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

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



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

(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

1" PAD BETWEEN
SUPPORT & STRUCTURAL SUPPORTS

FINAL ASSEMBLY TO BE
WITH 6" VACUUM STR. CONNECTIONS
SCALE 1/4"

NOTE:
SEE DRAWING C-30157B
SECTION DWG. OF THIS ASSEMBLY
USE THIS FOR LEFT HAND TRAP (3REQ'd)
SEE C-30157B 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 TO	ARTHUR T. EMMONS
B-FLANGE M.C.	
MCKEE P.O.	
MCKEE 161	
M.C.	

PRINT MADE
MCKEE 71971

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

SECTION "A-A"

21" TYP REF

STEAM IN

1/4" MAX ALLOWED
FOR MACHINING
THIS FACE IN
THIS ASSEMBLY

7 3/4"

1" 150" FLANGE
COIL JACKET IN

SUPPORT PLATE SEE
DWG E-32042

60" REF.

51" TO TOP
FLANGE

1" 150" FLANGE
COIL JACKET OUT

SECTION "B-B"

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

USE THIS DRAWING WITH LEFT HAND TRAP (2-REQ'D)
SEE DRAWING NO C-30158C FOR RIGHT HAND TRAP (2-REQ'D)

NEXT ASSEMBLY D-30138B & D-30157B

HOFFMANN LA ROCHE

PROJECT 60

BELVIDERE, N.J.

HLR ORDER NO. E-280676B

MCKEE CO. MCK 3726-57

POSITION:

LEFT HAND TRAP - B3-3645 & B3-3649 & B3-3650

RIGHT HAND TRAP - B3-3646 & B3-3650 & 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

A - 2.2.70

B

C ORIENTATION

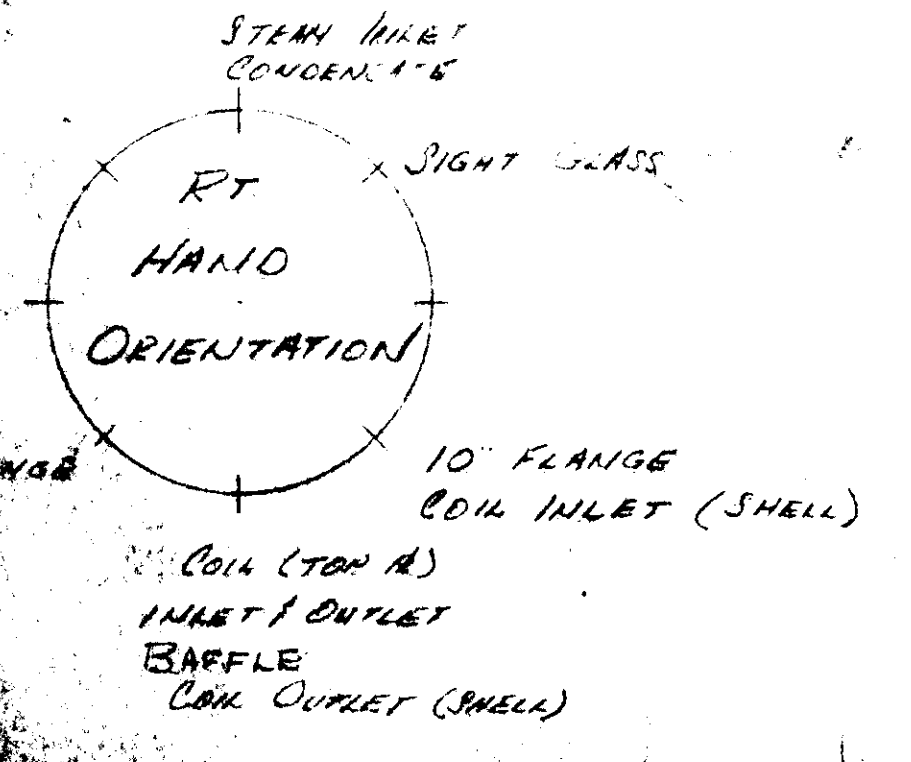
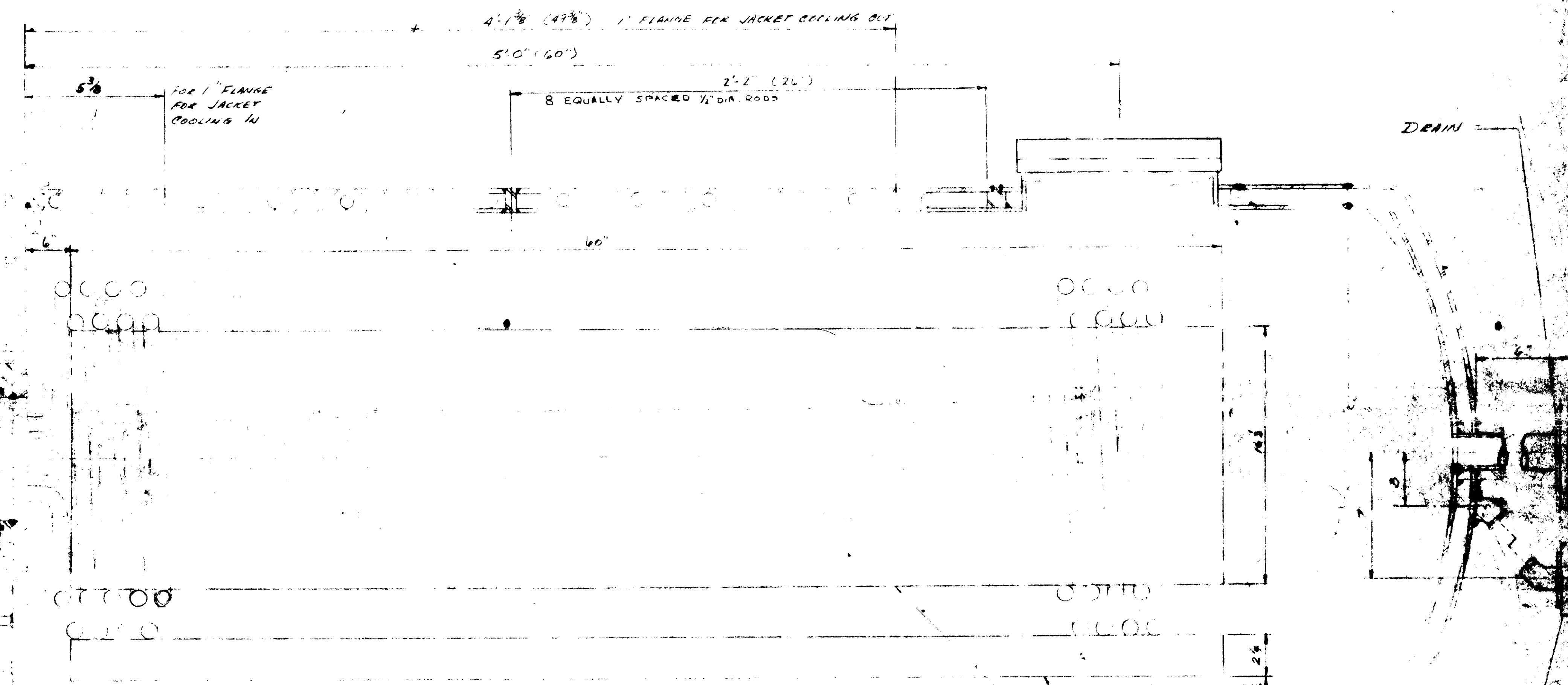
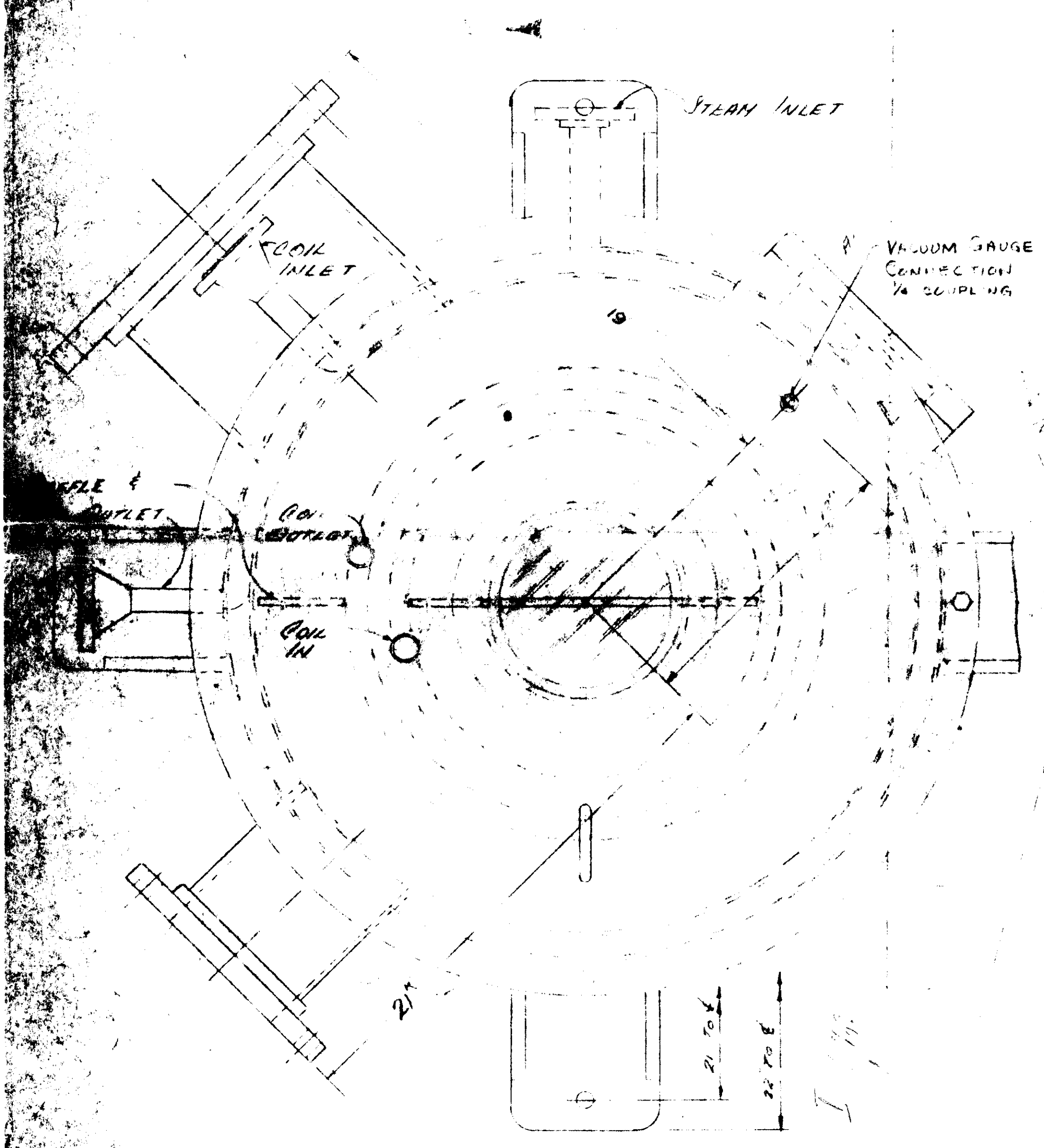
IN MCKEE

PRINT MADE
JUN 9 6 1971
ARTHUR C. MCKEE

VIEW OF CONNECTION BETWEEN
COILS & JACKET & OUTLET LINES

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



FLANGED 6" ABOVE TOP PLATE
 USE 1" WELDING NECK FLANGE
 SEE DWG NO D-301388

SECTION "A-A" STEAM & THIMBLE
 FINAL A-EFFECT TO COLD TRAP
 WITH 6 VACUUM LINE CONNECTOR

NOTE:
 USE THIS DRAWING WITH D-301388
 USE THE EXISTING 1/2" DIA. RODS TO HOLD THE COVER PLATE
 ROTATE 10° NOSE FOR EASY HANDLING (SEE B-24)
 BARELY ROTATE ASSEMBLY TO INSURE PROPER ALIGNMENT
 IN COIL ALWAYS WITH TEN INCH GRAM

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

SEE DWG. BDW-213-MXX-P121 FOR COVER PLATE MODIFICATIONS
 KLB. 5/5/79
 EV P 152
 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-6-22570
 B-ORIENTATE
 CHANGE NO. 225
 1-20-70
 E.V.P. 152

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