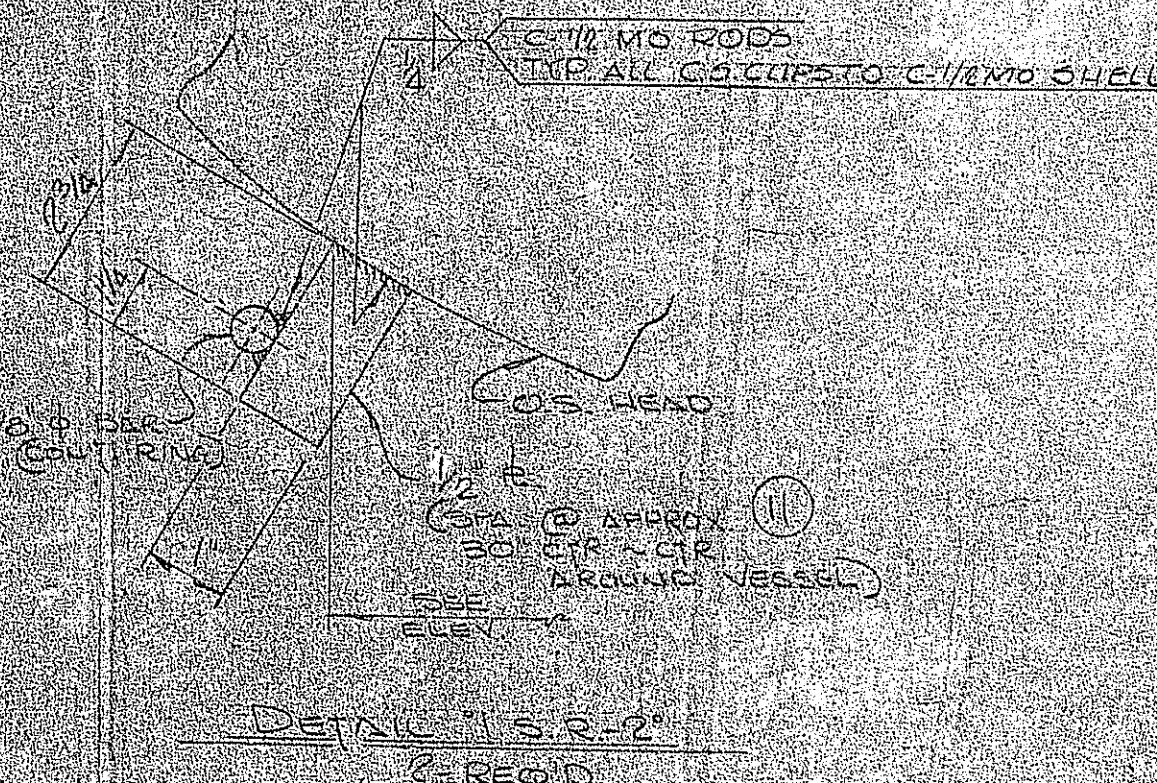
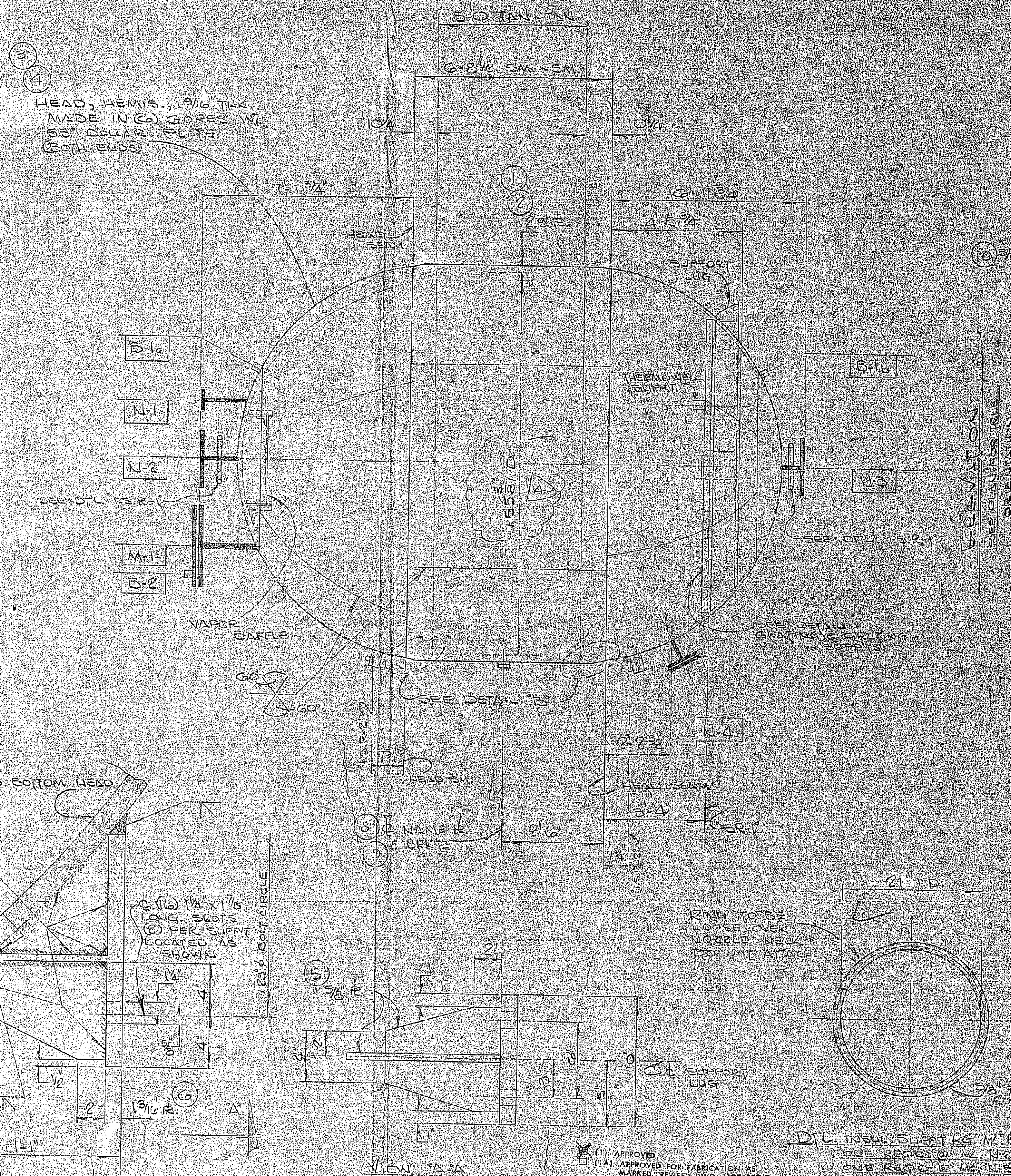
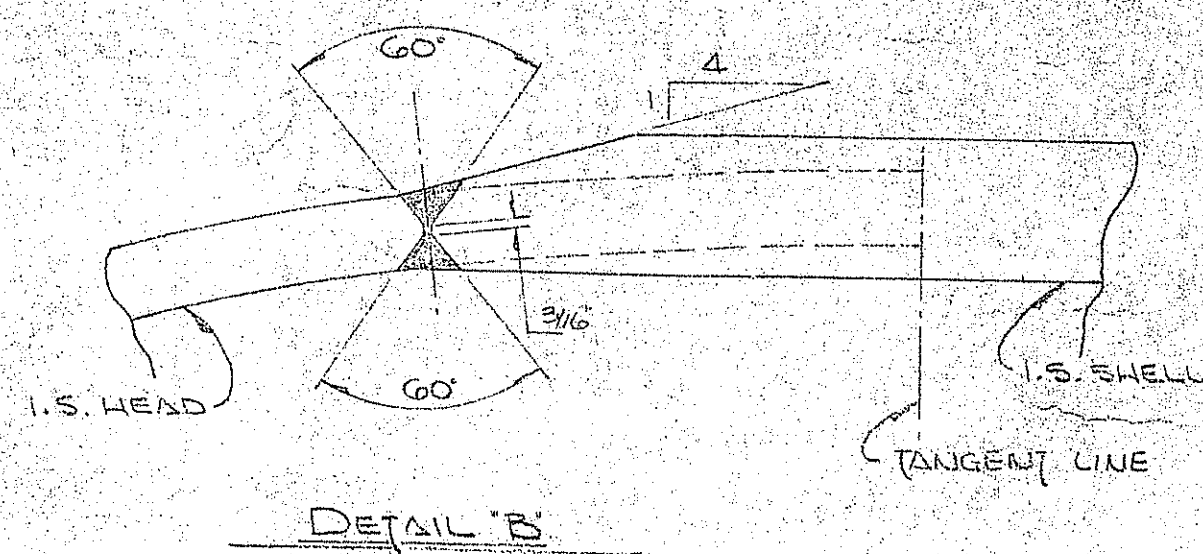




BILL OF MATERIAL				NO. PD-T-348		SHT. 1	
ITEM	UNIT	TOTAL	DESCRIPTION	MATERIAL	USE		
1	1		B. 2.8 x 3 1/4 x 250 1/2 (CUTS 1/2 SHELL RG.)	A-204-C F&X	2-80		
2	1		B. 2.8 x 3 1/4 x 230 CUTS 1/2 SHELL RG. & (1) PAD FOR N-34 N-2	A-204-C F&X	2-80		
3	1		B. 1 1/16 x 8 1/4 x 321 (CUTS 1) HEAD & PADS FOR N-34 N-2)	(48)	HD		
4	1		B. 3 1/16 x 8 1/4 x 301 (CUTS 1) HEAD)	(48)	HD		
5	1		B. 5/8 x 3 1/2 x 30 x 201 SPTS. MAIN BRG. SUPPL. BOLUS & NUTS. SUPPL. BOLUS & NUTS.	A-100-C F&X	2-80		
6	8	8	B. 1 3/16 x 10 1/4 x 20 1/2	A-204-C F&X	VESEL 1-80		
7							
8	1	1	NAME B. A-5200				
9	1	1	NAME B. BRKT. A-390				
10	100	100	LIN. FL. 3/8 x 4 BAR	(48)	NUTS		
11	32	32	B. 1/2 x 1 x 2 3/4 (CUT FROM ITEM # 45)	A-204-C F&X	NUTS		
EQUIP. NO. 10-201							
RESTRICTIVE CHEMISTRY NOTE: ITEMS # 1 THRU # 4 CU. MAX. 15% IN B. 5/8" DIA. 1/4" DIA. CU. MAX. 20% IN B. UNDER 3/4" DIA. NOTE: 1. ITEM # 1 & 2 TO BE NOT ROLLED & NORMALIZED IN OUR SHOP 2. ITEM # 1 & 2 TEST SPECIMENS TO BE NORMALIZED & H.T. 3. ITEM # 3 & 4 TEST SPECIMENS TO BE H.T. g 61							
V.P. 4415-1-C-7A-13-4							
ONE UNITS 850'S				S/O 40618			

B-2	ONE	1½"	GOOD	VENT & SAMPLE	
B1-1 _b	2	¾"	GOOD*	Pd I	
N-4	ONE	18"	GOOD*	CATALYST DISCHARGE	W HINGE
N-3	ONE	18"	GOOD*	VAPOR OUTLET	
N-2	ONE	18"	GOOD*	VAPOR INLET	
N-1	ONE	2"	GOOD*	T.M.	
M-1	ONE	24"	GOOD*	MANHOLE & LOADING	
MARK NO REQ'D	SIZE	SERIES		SERVICE	

1. BOLT HOLES TO STRADDLE NORMAL CENTER LINES.
2. PROTECT ALL MACHINE SURFACES & THREADED CONNECTIONS WITH RUST PREVENTIVE IMMEDIATELY AFTER MACHINING.
3. INSTALL WOOD OR STEEL PROTECTORS ON FITTINGS IMMEDIATELY AFTER TESTING.
4. VESSEL TO BE DRAINED & CLEANED BEFORE SHIPPING.
5. VESSEL TO BE WELDED BY SUBMERGED ARC PROCESS AT FABRICATORS OPTION.
6. PAINT P. O. NO. AND ITEM NO. IN 6" HIGH LETTERS ON HORIZONTAL CENTER LINES ON BOTH SIDES AS LOADED.
7. ONE 1/4" NPT TELL-TALE HOLE REQ'D IN PADS ON NOZZLES 12" AND UNDER; 2 REQ'D IN PADS ON NOZZLES 14" & OVER.
8. ALL PIPE JOINTS TO BE BEVELED 37 1/2° FOR 100% WELD PENETRATION.
9. MAGNETIC PARTICLE INSPECT INSIDE & OUTSIDE SURFACE OF ALL WELDS WHERE ACCESSIBLE) AFTER HYDROSTATIC TEST.

CONSTRUCTION FUSION WELDED ASME SECTION VIII
 SYMBOL APPLIED PER PAR UG-110 CORR. ALL HSB NO. 103
 DESIGN PRESSURE 405 PSI DESIGN TEMPERATURE 513 °F
 STRESS RELIEVE 1ES RADIOGRAPH CONF. JOINT EFF. 100 % SHL 100 % HDS
 SHELL TENSILE STRENGTH 75000 PSI HEAD TENSILE STRENGTH 75000 PSI
 HYDROSTATIC TEST 1065 P.S.I. MFG SER. NO. 2312
 INSPECTION BY: HARTFORD SBI & I. CO. & CUSTOMER, HYDROSTATIC TEST
 BASED ON TAP OF YES/NO PSI HYDRO. TEST CHART REQ'D.
 PLATES SUBJECT TO CODE TO BE A-204-C FB.X. UNLESS NOTED.
 HEADS SUBJECT TO CODE TO BE A-204-C FB.X. UNLESS NOTED.
 PLATES NOT SUBJECT TO CODE TO BE A-204-C FB.X. UNLESS NOTED.
 STRUCTURAL SHAPES TO BE A-204-C FB.X. UNLESS NOTED.
 ALL FORGED STEEL FLANGES UP TO & INCLUDING 300 LB. TO BE ASTM A-181 CL-1
 ALL ABOVE TO BE ASTM A-105 CL-1 UNLESS NOTED.
 ALL SEAMLESS PIPE TO BE A-205-B UNLESS NOTED.
 PRESSURE BOLTING TO BE A-192-B W/UTS A-194-B UNLESS NOTED.
 SERVICE GASKETS TO BE (JM-60 FOR TEST ONLY) UNLESS NOTED.
 PAINT: NONE DO NOT USE FOR TEST

4	REV. CO. OF VESSEL	16	DR	71																																				
5	ADDED WELDING NOTE (PDR)	DR	16	5/16																																				
6	REVIEWED NOTE # 5 REVIEWED NOTE # 6 (GRAFF)	DR	DR	4																																				
7	FOR FABRICATION	DR	PFC	3/16																																				
8	FOR CUST. APPROVAL	DR	16	5/16																																				
<table border="1"><thead><tr><th>No.</th><th>REVISIONS</th><th>BY</th><th>DATE</th></tr></thead><tbody><tr><td colspan="4">DELTA REF. DWGS.</td></tr><tr><td colspan="4">DELTA P. DETAIL (M-1)</td></tr><tr><td colspan="4">NAME B. STAMMERS</td></tr><tr><td colspan="4">WELDING PROCEDURE</td></tr><tr><td colspan="4">HREF DEL (M-4)</td></tr><tr><td></td><td></td><td>PVC</td><td>6-28-88</td></tr><tr><td></td><td></td><td>SJO</td><td>4-06-88</td></tr><tr><td></td><td></td><td>PVB</td><td>6-28-88</td></tr></tbody></table>					No.	REVISIONS	BY	DATE	DELTA REF. DWGS.				DELTA P. DETAIL (M-1)				NAME B. STAMMERS				WELDING PROCEDURE				HREF DEL (M-4)						PVC	6-28-88			SJO	4-06-88			PVB	6-28-88
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CUST. REF. DWGS. & SPECS.																																								
E-1C-201 REV. E-1C-202																																								

DELTA SOUTHERN COMPANY
BATON ROUGE, LOUISIANA
DIVISION OF SOUTHWEST FABRICATING & WELDING CO.

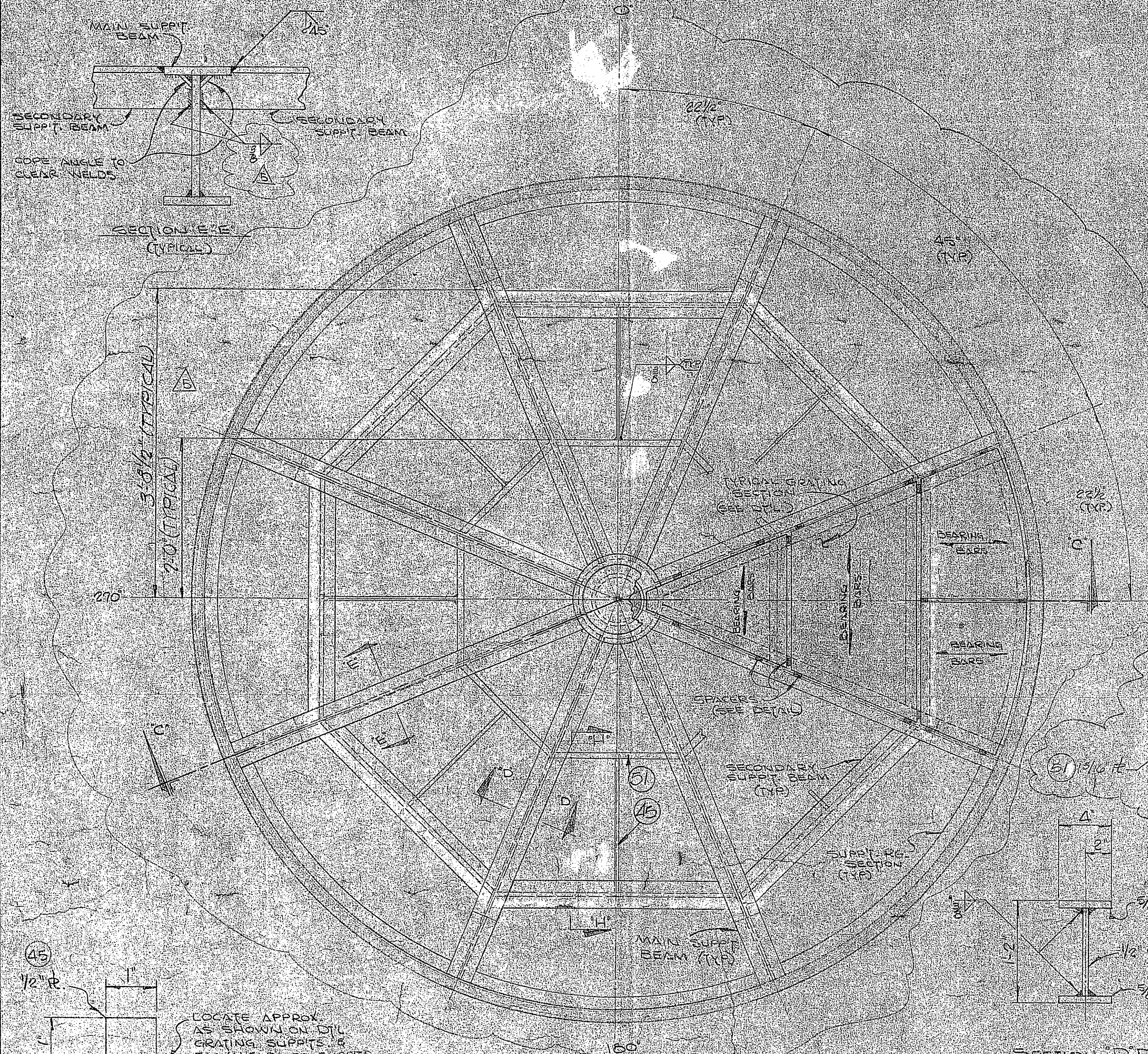
SHIP. WT. 50,600 LBS.

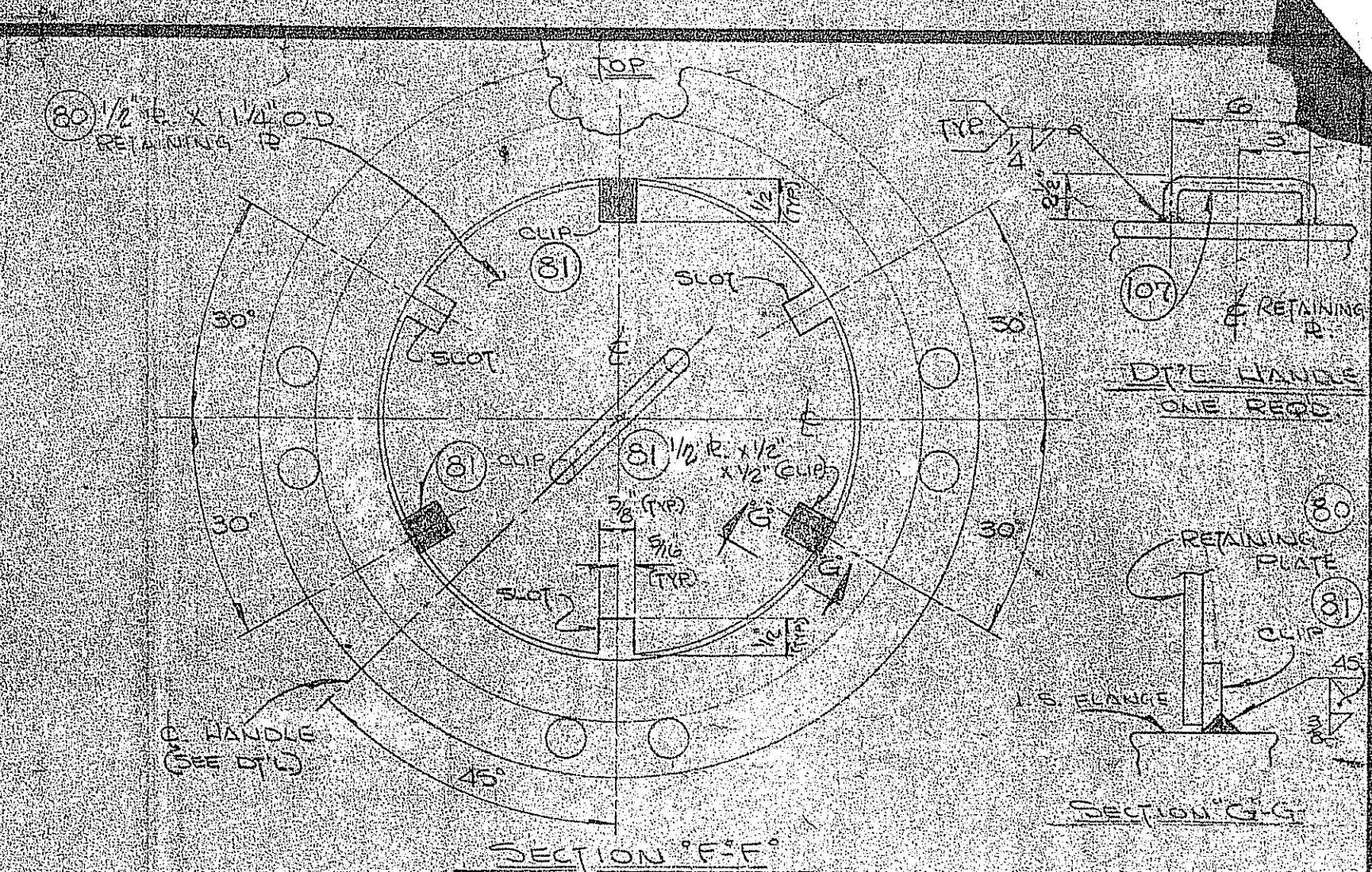
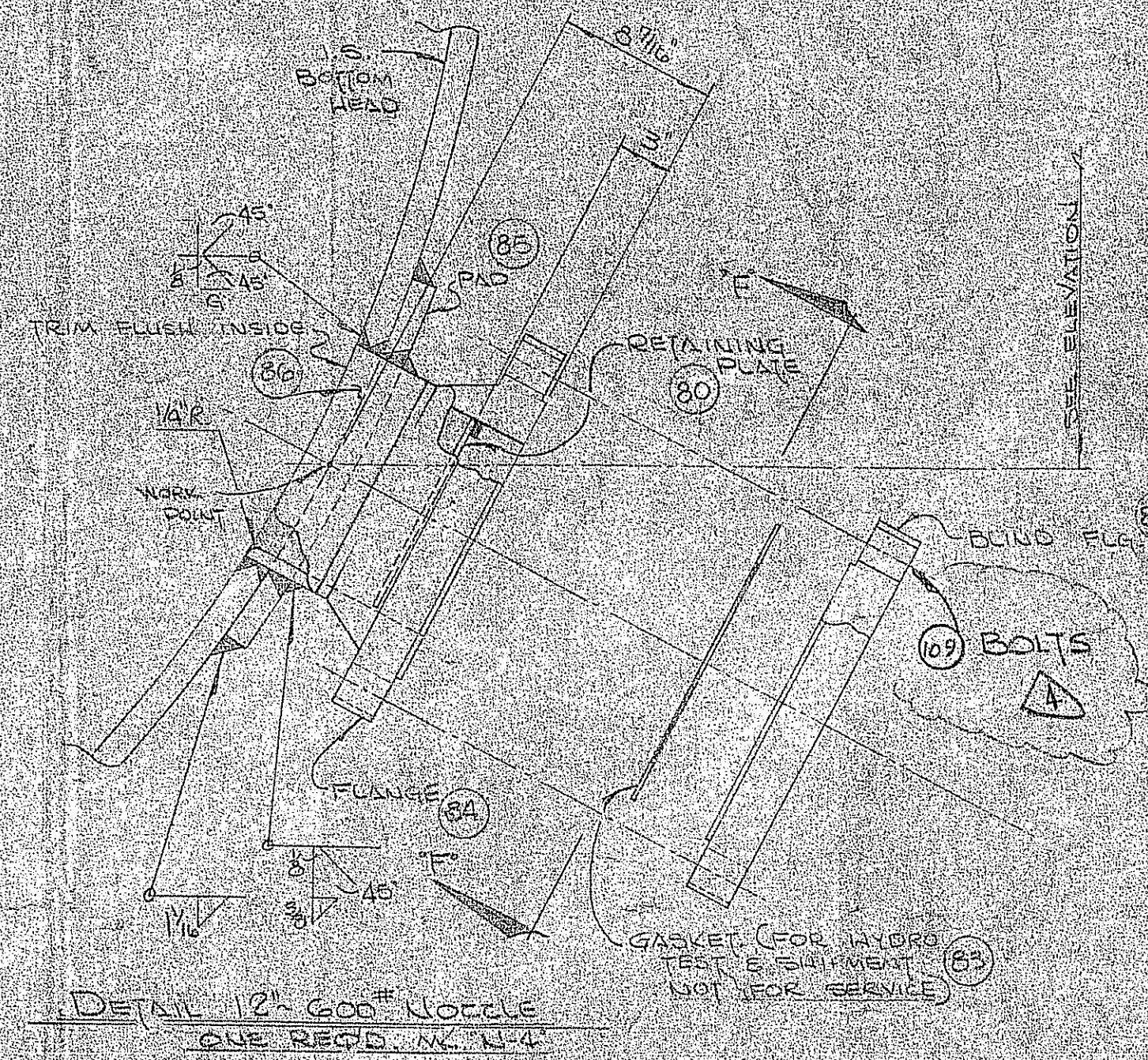
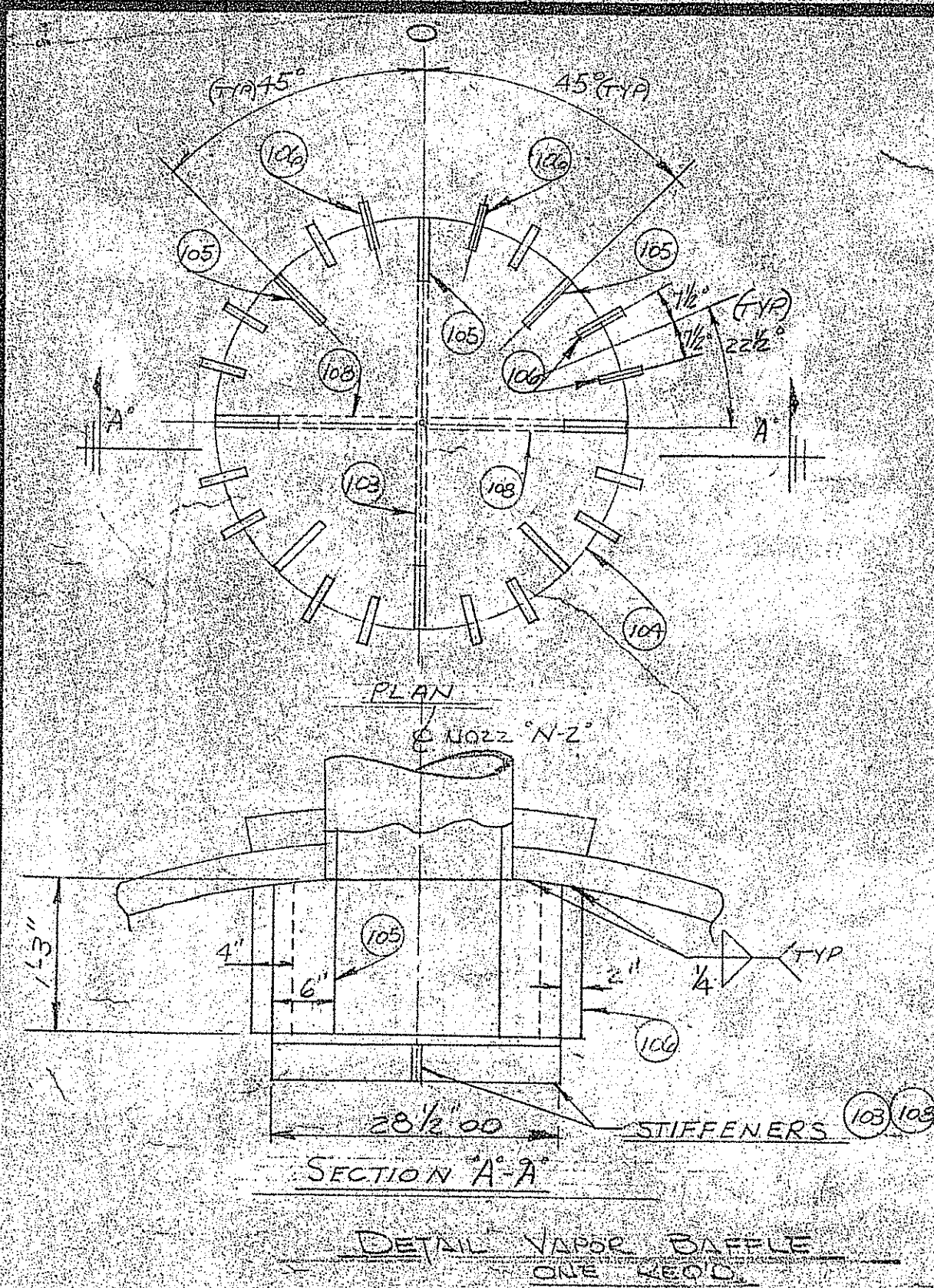
1556 I.D. X 8'-0" TANGENT-TANGENT
PRIMARY SHIFT CONVERTER
ITEM # 14-201

PLAN, ELEV. & GENERAL NOTES.

CUSTOMER: DEUTCH CORPORATION
P. O. NO. 4915 MC-7A JOB NO.

DRAWN: JLN CHECK: [Signature] DWG. NO.





BILL OF MATERIAL				NO. PVD-7348		SHT 3
ITEM	UNIT	TOTAL	DESCRIPTION	MATERIAL	USE	
1	1	1	R. 1/2" x 11 1/4" O.D.	CUT FROM ITEM # 45 SH 12	REPAIR	REQ
2	3	3	R. 1/2" x 1 1/2" x 1/2"	CUT FROM ITEM # 45 SH 12	REPAIR	REQ
3	1	1	BLIND FLANGE, 12" x 1/2" R.F.	A-182-F1	(40)	
4	1	1	GASKET, 1/16" THK. X 12 3/4" I.D. X 10 O.D.	(J.M.G.)	(40)	
5	1	1	FLG., 12" x 600" R.F. W.N. W/ SCH. 80 BORE	A-182-F1	(40)	
6	1	1	R. 1/2" x 22" O.D. (CUT FROM ITEM # 45 SH 12)	A-204-C.FEX	(40)	
7	1	1	PIPE, 12" SCH. 80 (SMLS.) X 6' LG.	A-333-F1	(40)	
8	2	2	FLANGE, 18" x 600" R.F. W.N. W/ SCH. 80 BORE	A-182-F1	N-3	REQ
9	1	1	R. 1/2" x 30" O.D. (CUT FROM ITEM # 45 SH 12)	A-204-C.FEX	N-3	REQ
10	1	1	R. 2 3/4" x 24 1/2" O.D. (CUT FROM ITEM # 45 SH 12)	A-204-C.FEX	N-3	REQ
11	1	1	R. 1 3/4" x 1 1/4" x 5/8"	(40)	N-3	REQ
12	1	1	R. 1 3/4" x 1 3/4" x 5/8"	(40)	N-3	REQ
13	2	2	ROUGH MACH. FORGING, TO FIN. 1 3/4" x 2 1/2" LG.	A-182-F1	N-3	REQ
14	1	1	PIPE, 2" SCH. 40 (SMLS.) X 6' LG.	A-333-F1	N-3	REQ
15	1	1	PIPE, 2" SCH. 40 (SMLS.) X 2 1/2" LG.	A-333-F1	N-3	REQ
16	1	1	FLANGE, 2" x 600" R.F. W.N. W/ SCH. 80 BORE	A-182-F1	N-3	REQ
17	1	1	R. 2 3/4" x 38 1/2" O.D. (CUT FROM ITEM # 45 SH 12)	A-204-C.FEX	N-3	REQ
18	1	1	R. 1 3/4" x 28 1/2" x 1 1/2"	A-204-C.FEX	N-3	REQ
19	1	1	FLANGE, 24" x 600" R.F. W.N. W/ SCH. 80 BORE	A-182-F1	N-3	REQ
20	24	24	GASKET, 1/16" THK. X 24" I.D. X 23 1/2" O.D.	(J.M.G.)	(40)	
21	24	24	ALLOY STUDS, 1 1/4" x 8 3/4" LG.	A-193-B1	(40)	
22	24	24	W/ (?) HEX. NUTS EA.	A-193-B1	(40)	
23	1	1	FORGING, ROUGH MACH. TO FINISH TO 3" O.D. X 4 3/8" LG.	A-182-F1	(40)	
24	1	1	ROUGH MACH. FORGING, TO FIN. 3" x 3 3/4" LG.	A-182-F1	(40)	
25	1	1	F.BAR 1/2" x 3" x 2 1/2" LG.	CUT FROM ITEM # 45 SH 12	REPAIR	REQ
26	1	1	R. 1/2" x 28 1/2" O.D.	(40)	REPAIR	REQ
27	8	8	R. 1/2" x 15" x 15"	(40)	REPAIR	REQ
28	16	16	R. 1/2" x 15" x 15"	(40)	REPAIR	REQ
29	1	1	ROUND BAR, 3/8" x 1 1/2" LG.	(40)	REPAIR	REQ
30	2	2	F.BAR 3/8" x 3" x 1 1/2"	CUT FROM ITEM # 45 SH 12	REPAIR	REQ
31	20	20	ALLOY STUDS, 1 1/4" x 8 3/4" LG.	A-193-B1	(40)	
32	20	20	W/ (?) HEX. NUTS EA.	A-193-B1	(40)	

NOTE: ALL FLANGE FACINGS TO HAVE 125 MICROINCH RMS FACE FINISH

UNITS: S/O 4061P

REQD: 4915-1-C-7A-15-5

EQUIP. NO. 1C-201

DELTA SOUTHERN COMPANY
BATON ROUGE, LOUISIANA
DIVISION OF SOUTHWEST FABRICATING & WELDING CO.

156" I.D. x 5'-0" DIA. STATION
PRIMARY SHIFT CONVERTER
ITEM # 1C-201

NOZZLE DETAILS

CUSTOMER: BECHTEL CORP.
P.O. NO. 4015-1C-7A

DRAWN: JLLH CHECK: DATE: 8/1/65 DWG. NO. PVD-7348 SH. # 3 OF 5

REVISIONS:

NO.	DESCRIPTION	BY	DATE
1	FOR FABRICATION	FR	8/1/65
2	FOR CUST. APPROV.	JLLH	8/1/65

DRAWING NUMBER
4915-ID-Q-14

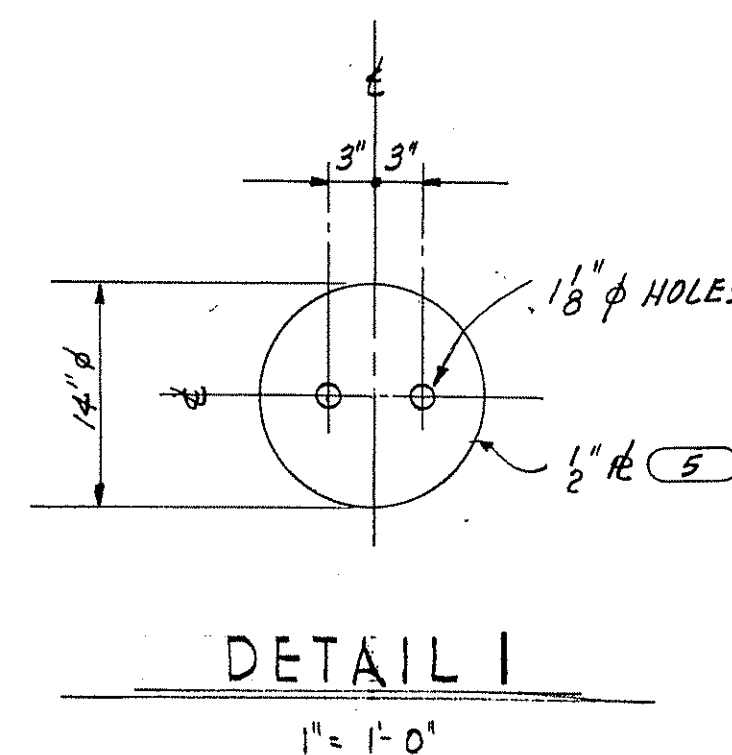
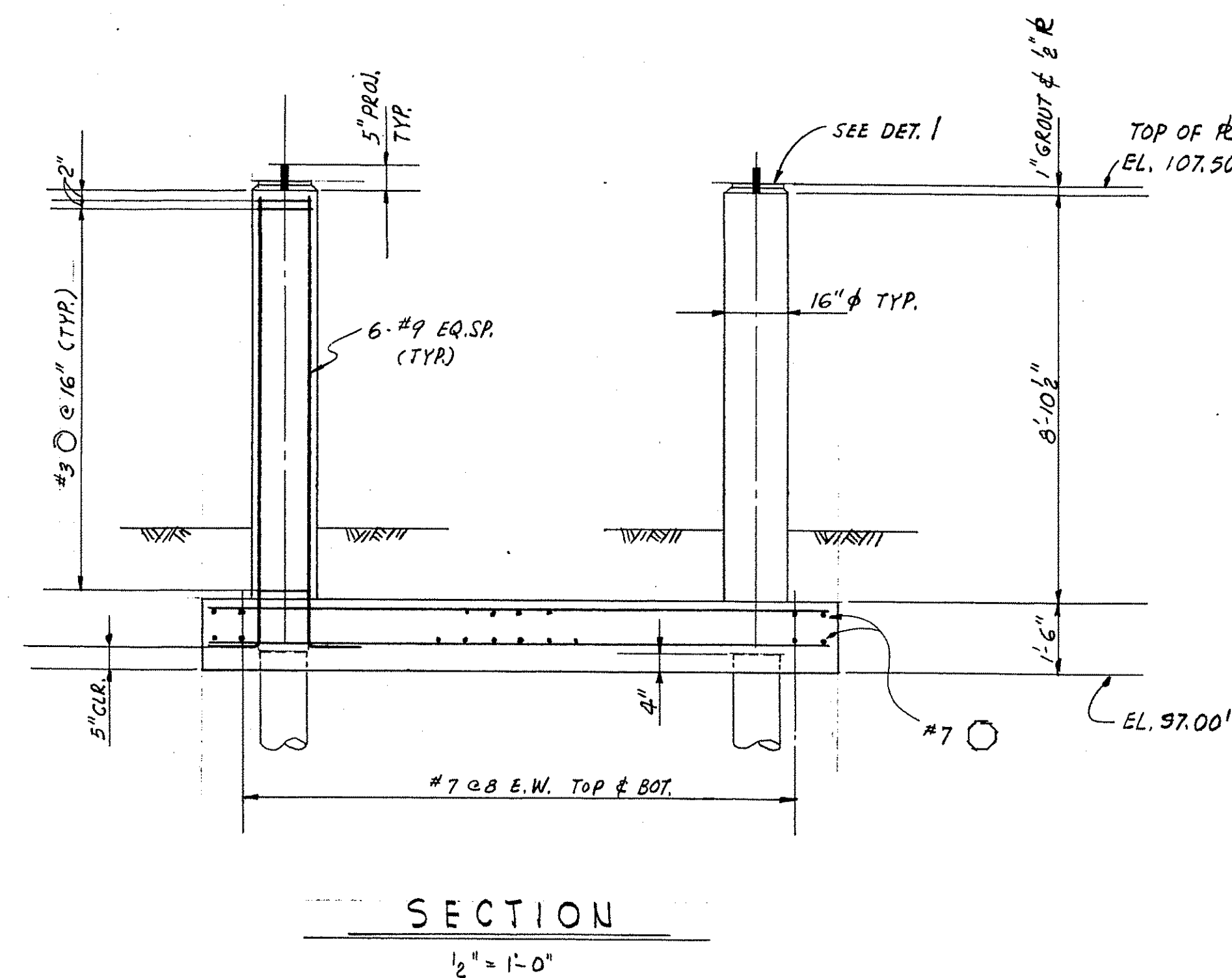
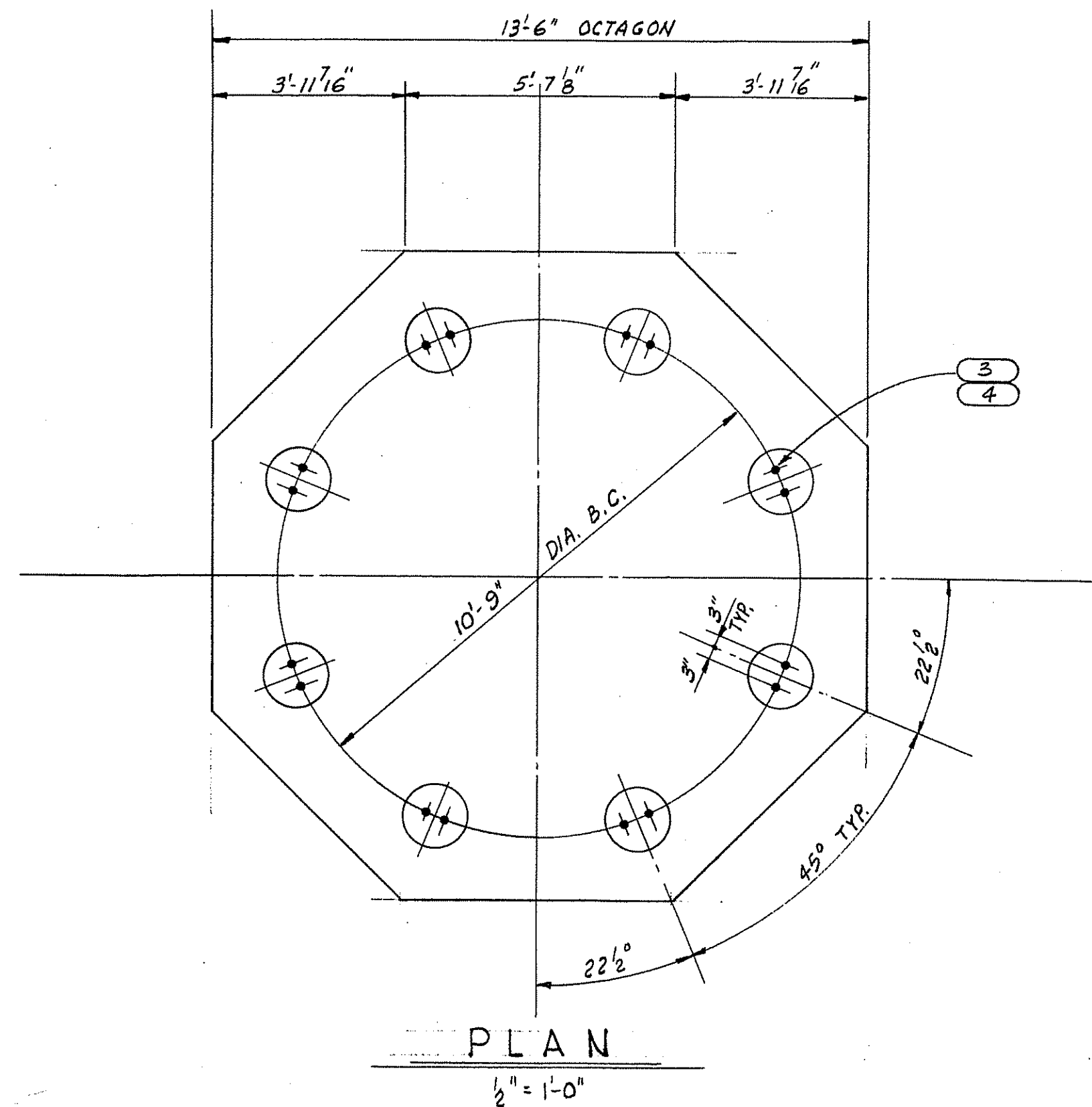
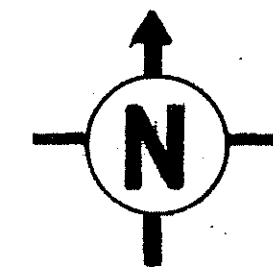
10-201

DRAWING NUMBER

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SIZE D (ASA)

LIST OF MATERIAL

ITEM	QUAN.	DESCRIPTION	ORDER NO.
1	12	CU. YDS CONCRETE (3000 P.S.I.)	1Q-3
2	1-LOT	REINF. BAR	
		NO. #3 #7 #9	
		LBS. 60 2,650 3,300	
3	16	1" ϕ x 21" (L) LONG TYPE 2 ANCHOR BOLTS WITH 1 CPSF HEX. NUT & JAMB NUT	
4	12	UN. FT. 3" ϕ GALV. IRON CONDUCTOR PIPE	
5	8	PCS. 14" ϕ x 1/2" LEVELING PLATE PER DET. I	FIELD

GENERAL NOTES

- FOR LOCATION SEE PLOT PLAN DWG. 12-A-21.
- FOR CONCRETE DESIGN AND CONSTRUCTION NOTES SEE DWG. 1A-Q-134
- FOR SLIDE PLATE COATING SEE DWG. 1B-Q-135

REFERENCE DRAWINGS

PLOT PLAN	12-A-21
CONCRETE DESIGN & CONSTRUCTION NOTES	1A-Q-134
ANCHOR BOLTS	D-Q-510
PRIMARY SHIFT CONVERTER	E-1C-201
DWG. INDEX, GEN. NOTES & TYP. DETAILS	1B-Q-135

MAX. CALCULATED PILE LOADS IN TONS

DEAD + LIVE (OPER.)	15.5
DEAD + LIVE (TEST)	16.5
DEAD + LIVE + SEISMIC	30.5
MAX. UPLIFT	—
MIN. STABILITY RATIO	2.1

										
										
	ISSUED FOR CONSTRUCTION				HW	JS	JFC			
No.	DATE	REVISIONS			BY	CHK	DEPT. SUPVR.	ENGR	CHIEF ENGR	CLIENT
SCALE AS NOTED		DESIGNED			DRAWN HW					

BECTEL CORPORATION
SAN FRANCISCO

CONTINENTAL OIL COMPANY
1000 T/D AMMONIA PLANT
BLYTHEVILLE ARKANSAS

FOUNDATION FOR IC-201

4915	ID-Q-14	REV.
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94206