HERCULES

SPECIFICATIONS

PROCESS AND GENERAL INFORMATION

MATERIAL IN VESSEL	METHANOL - WATER				WT. 8.34	LB./GAL.
CAPACITY OPERATING	375 GALS.	DESIGN	400 GALS.	TOTAL	3760	GALS.
AGITATION	NO					
USE	SPRAY TOWER			HORIZONTAL OR VERTICAL	VERTICAL	
HEATED	NO	COOLED	NO	JACKET NO	COIL NO	OTHER NONE

PRESSURE & TEMPERATURE:	SHELL:	JACKET OR COIL:
DESIGN	15 PSIG AT 70 °F	PSIG AT °F
OPERATING	0 PSIG AT 70 °F	PSIG AT °F
TEST-HYDROSTATIC	23 PSIG HOLD 2 HOURS	PSIG HOLD 2 HOURS

CORROSION ALLOWANCE	NONE				
CONSTRUCTION: CODE	SCS-3T1 & ASME SECT VIII			STAMPING	NO
INSPECTION: HERCULES	YES	NATIONAL BOARD	NO	OTHER	NONE
X-RAY INSPECTION:	NO	FILM INSPECTION: HERCULES	NO	NATIONAL BOARD	NO
THERMAL TREATMENT	NONE				
PASSIVATION: INSIDE	NONE		OUTSIDE	NONE	
CLEANING	SCS-3T1	PAINTING	ONE SHOP COAT RED LEAD ALL C/S PARTS		
WEIGHTS: EMPTY	7000 LBS.	FILLED WITH WATER	38,400 LBS.		
EXTERNAL LOADING	2000 #				LBS.
FILLED WITH CONTENTS	LBS.	TOTAL MAXIMUM LOAD	40,400 LBS.		

SHELL

MATERIAL	SA-240 TYPE 316 S/S	THICKNESS	3/16"
SEAMS: WELDED	ELECTRIC	JOINT TYPE	DOUBLE BUTT EFFICIENCY 70%

HEAD

	TOP ~~CROWN END~~	BOTTOM ~~CROWN END~~
MATERIAL	ASME-SA-240-TYPE 316 S/S	ASME-SA-240 TYPE 316 S/S
TYPE	FLAT	FLANGED & DISHED
~~BUTT~~ WELDED	ELECTRIC	ELECTRIC
THICKNESS	3/16" WITH 1" MIN. C/S	1/8" NOMINAL

NOZZLES

MATERIAL	SA-249 - TYPE 316 S/S	THICKNESS	SEE SCH.
TYPE	L.J. STUB END OR PIPE	WITH 150 LB. F.S. LAP JOINT	AMER. STD. FLGS.
MANHOLE	18" SES-4M1J		

GASKETS

FOR TEST	JM #60
FOR COMPLETED CONNS. SUPPLY NEW	JM-#60

JACKETS

MATERIAL		THICKNESS
TYPE HEAD		THICKNESS

COILS

MATERIAL		PIPE DIAMETER	THICKNESS
TYPE		LIN. FT.	SQ. FT. SURFACE

SUPPORTS

LUGS NO LEGS 4 SKIRT NO SADDLES NO OTHER NONE

BOLTING

	INTERIOR	EXTERIOR
BOLTS OR BOLT STUDS	SCS-3T1	SCS-3T1
MATERIAL		
NUTS: TYPE AND MATERIAL		

MISCEL

INSULATION NONE

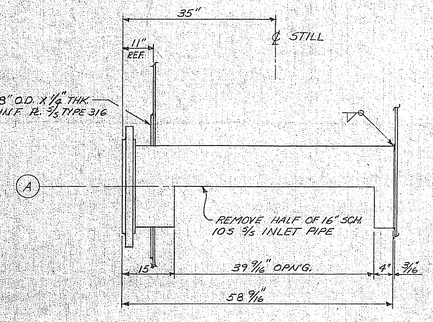
NO. UNITS REQ'D. TWO (2)

ALL GASKET SURFACES TO HAVE COMMERCIAL PHONOGRAPHIC SERRATED FINISH

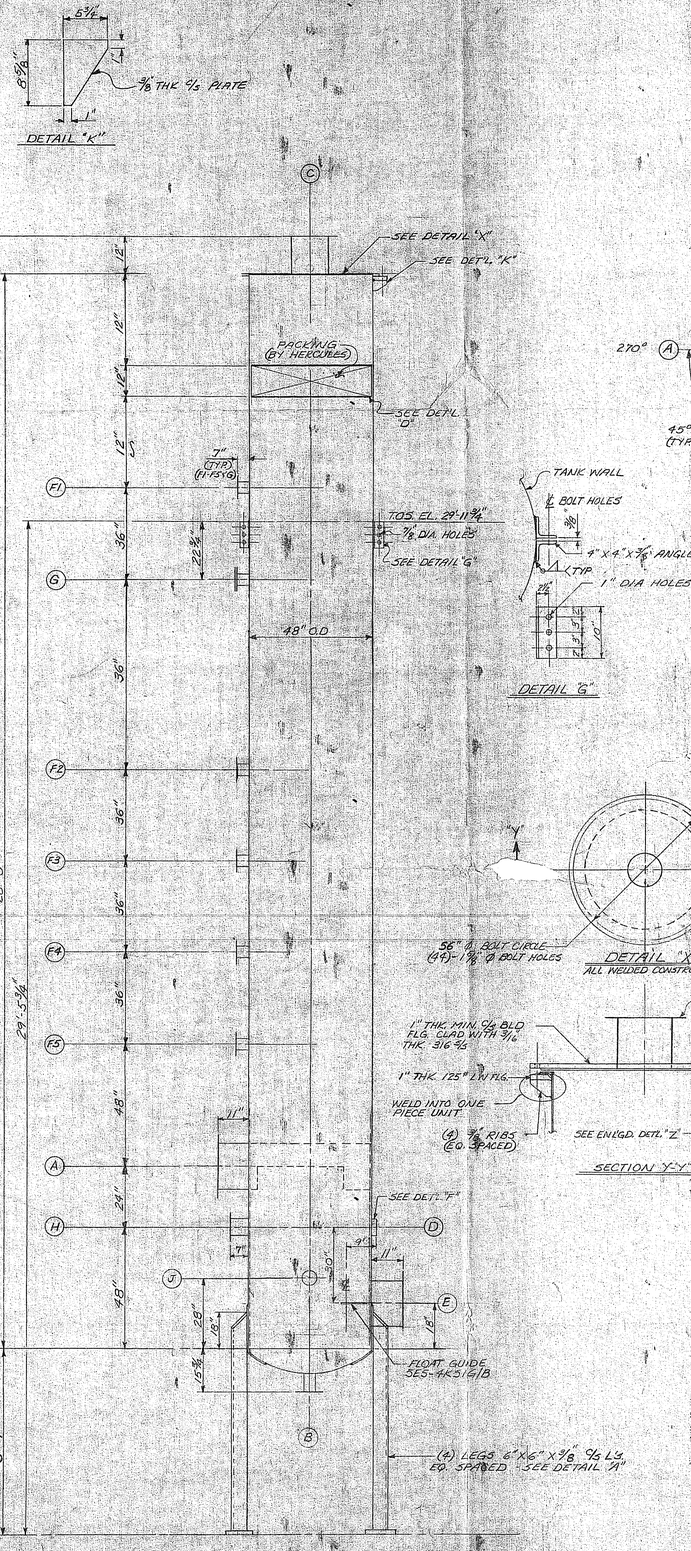
NOZZLE DATA

NOZZLE	SIZE	USE	DWG. No.	NOZZLE	SIZE	USE	DWG. No.
A	16"	INLET	DETAIL "C"				
B	4"	OUTLET	1415-WS				
C	12"	VENT	1411-WS				
D	2"	FLOAT LEVEL	DETAIL "E"				
E	18"	MANHOLE	SIMILAR TO SES-4M1J				
F1, F2, F3 F4, F5	6"	SPRAY	1417-WS				
△ G	6"	SPARE W/BLD.FLG	1417-WS				
H	6"	OVER FLOW	1417-WS				
J	6"	SIGHTGLASS	DETAIL "B"				

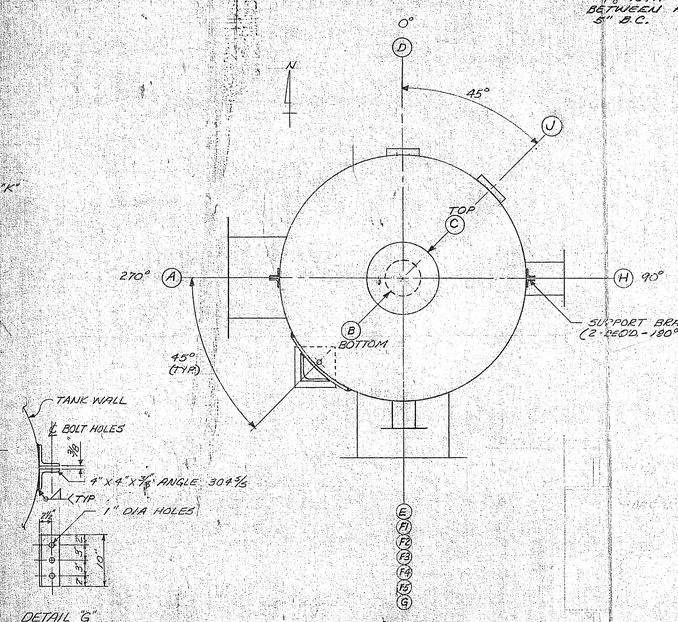
NOTES:
△ F.S. 150# BLD FLG. WITH 316 S/S FACING.
✳ WITH DAVIT HERC STD. SES-4D1G.



DETAIL "C"
SCALE 1"=1'-0"

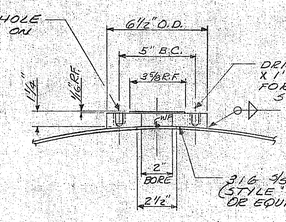


ELEVATION
FOR ORIENTATION SEE PLAN
NO SCALE

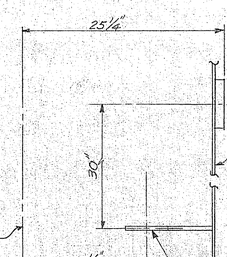


PLAN
SCALE: 1"=1'-0"

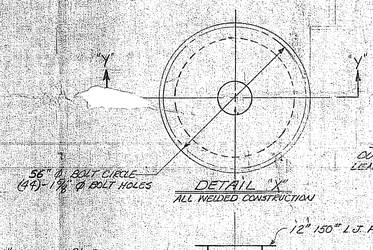
DETAIL "G"



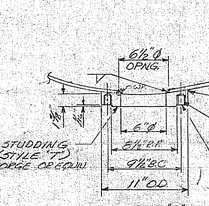
DETAIL "E"
SCALE: 3"=1'-0"



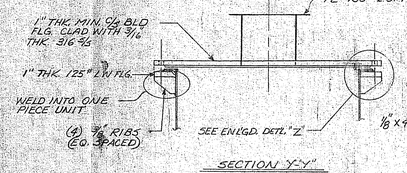
DETAIL "F"



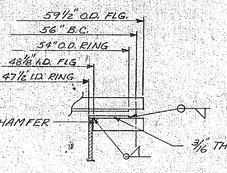
DETAIL "X"
ALL WELDED CONSTRUCTION



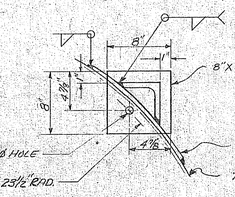
DETAIL "B"
SCALE 1 1/2"=1'-0"



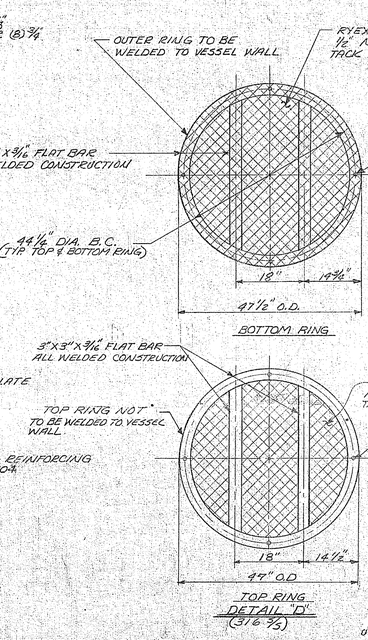
SECTION Y-Y



ENLGD. DETL. "Z"



DETAIL "A"
4 REQD.



GRAPHIC SCALES

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SCALE AS NOTED	DATE
DRAWN T.W. GEDDIE	4-6-70
CHECKED C.L. BATTS	5/12/70
APPROVED	5/15/70
APPROVED	5/20/70
APPROVED	5/20/70
APPROVED	5/20/70
APPROVED	5/20/70
APPROVED	5/26/70

HERCULES INCORPORATED

PLANT HANOVER-WILM., N.C.
BUILDING CRYSTALLIZATION AREA NO. 1 & 2

WATER SCRUBBER
A-520 & A-2520
ASSEMBLY AND DETAILS

#103407

NO.	DATE	JOB NO.	DESCRIPTION	RVS'D.	CK'D.	APPV'D.
REVISIONS						

NO.	DATE	JOB NO.	DESCRIPTION	RVS'D.	CK'D.	APPV'D.
REVISIONS						
1	9-13-71	26021	NOZZLE "C" WAS 14"	Talla	Kuff	KWS

TITLE	PLANT	ACCOUNT	CLASSIFICATION	FILE CODE
REFERENCE DRAWINGS				

TITLE	PLANT	ACCOUNT	CLASSIFICATION	FILE CODE
FLOAT GUIDE			5ES-4K5IG/B	
REFERENCE DRAWINGS				

DRAWING NUMBER				
026	2004	52014	SWN	1
PLANT	ACCOUNT	CLASSIFICATION	FILE CODE	REV.