

"It is hereby certified that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number 79-C-2647, is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval."

Certified by *Wiley* Date 6-25-80

REV.	BY	DATE	DESCRIPTION	CH.	DATE
	A E	8/3	ADDED No 29		
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		DUCON FLUID TRANSPORT DIVISION THE DUCON COMPANY INCORPORATED <small>Subsidiary of United States Filter Corporation</small>			
SCHEMATIC FLOW DIAGRAM					
FOR: MARINE CORPS BASE					
SCALE:	NONE		CONTRACT NUMBER:		
DRAWN:	R. LANE	DATE:	6/25/80		
CHECKED:	<i>[Signature]</i>	DATE:			
APPROVED:		DATE:			

Small, illegible text block in the bottom left corner, possibly a stamp or header.

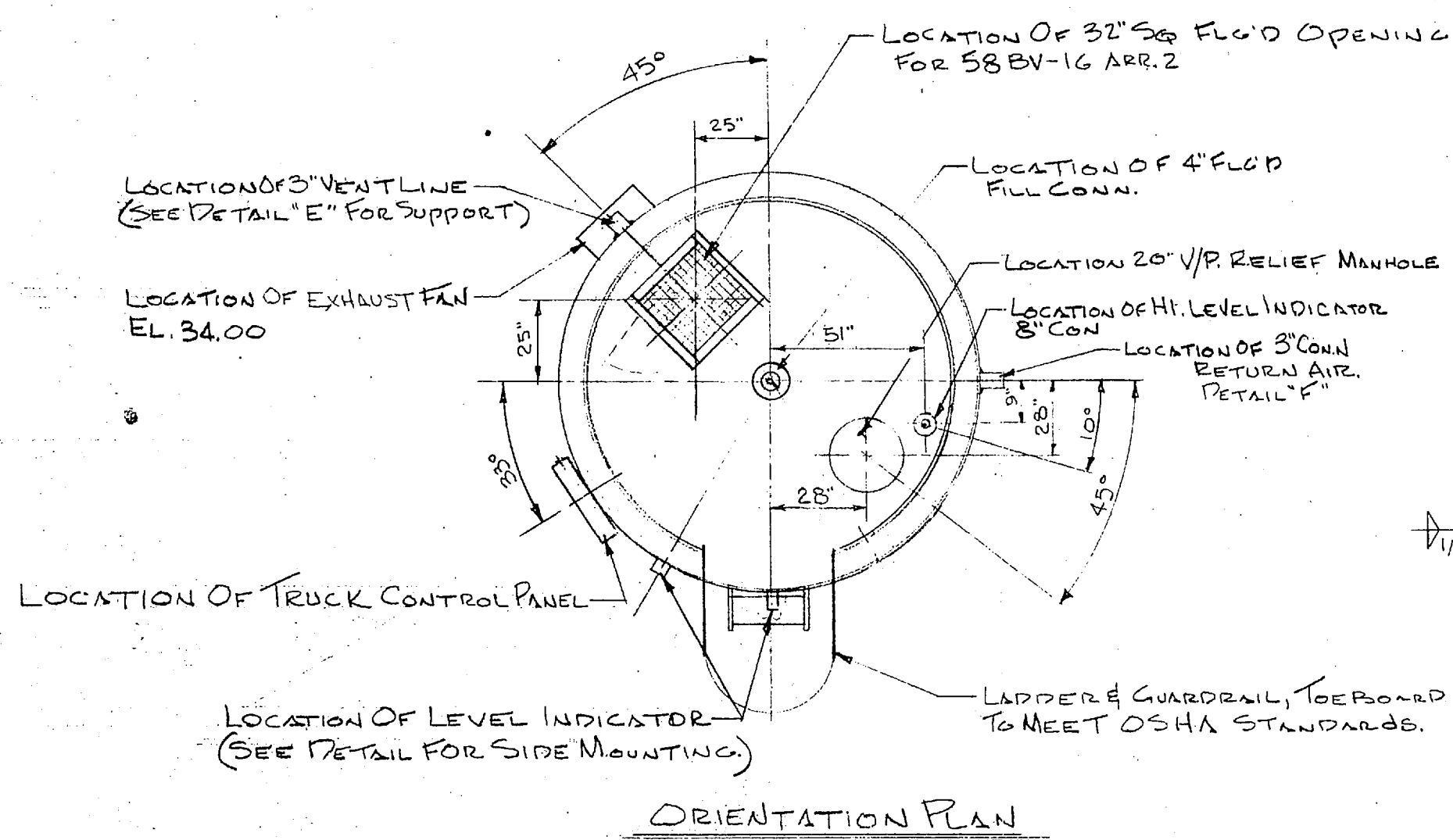
NAME	QUAN. F. NF	DESCRIPTION	ELECTRICAL REQ. MTS	B/M NO.	SHIP STAT.	DATE	STATUS	PT NO.	NAME	QUAN. F. NF	DESCRIPTION	ELECTRICAL REQ. MTS	B/M NO.	SHIP STAT.	PO. NO.	STATUS	PT NO.	NAME	QUAN. F. NF	DESCRIPTION	ELECTRICAL REQ. MTS	B/M NO.	SHIP STAT.	PO. NO.	STATUS	
1 FILTER	1	FLEX-KLEEN #58 BY-12				11-14-50	△	20	CONTROL PANEL (TRUCK)	1	DUCON															
1-1 EXHAUST FAN	1	PB-10 CINCINNATI FAN																								
1-2 TIMER	1					11-14-50																				
1-3 1/2 HP MOTOR	1		115 V. 1Ø, 60 HZ.				△	21	CONTROL PANEL (LIME)	1	DUCON															
1-4 PRESSURE GAUGE	1																									
1-5 PRESSURE SWITCH	1	FAIRCHILD #PSF-100A	125 V. 1Ø					△	22	LEVEL INDICATOR HI	1	MOD. KA. MONITOR	110V. 60 HZ.													
									△	23	LEVEL INDICATOR LO	1	MOD. KA. MONITOR	110V. 60 HZ.												
											24	FAN	1	CINCINNATI # TE	115V. 1Ø. 60 HZ.											
											25	MANHOLE	3	KNAPPCO 20" Ø V/K 720												
2 SILO	1	DUCON Dwg 3714-3									26	4" 90° ELBOW	2	LR 3/8" SCH 40 9/8	4T-724											
											27	4" COUPLING	8	ECCO # 4-3C RUBBER												
3 BIN ACTIVATOR 6-Ø	1	VIBRANETICS, Dwg B-101-04									28	4" PIPE	4	21-Ø" SCH 40 9/8												
3-1 GYRATOR MOTOR	1	1/2 HP	240V. 3Ø, 60 HZ.								29	4" GASKET	1	1/8" THK. RUBBER # 15225												
											30	4" FLANGE	1	F.R. SCH 40 9/8 # 18374												
4 6" KNIFE GATE VALVE	1	VIBRANETICS, Dwg B-900-95									31	5" 90° ELBOW	5	LR 3/8" SCH 40 9/8	5T-724											
											32	5" COUPLING	25	MORSE # 3-2C # R/FB												
											33	6" 90° RED TEE	1	DUCON T-225-23	Dwg T-225-1											
5 6" ROTARY FOR ASS'Y	1	DUCON 6" W/Y FITTING	2T-1567								34	5" GASKETS	3	1/8" THK. RUBBER # 17848												
5-1 1/2 HP MOTOR T.E.M.V.	1	1/2 HP 1800 RPM. RIGHT ANGLE	240 V. 3Ø, 60 HZ.								35	5" PIPE	8	21-Ø" SCH 40 9/8												
5-2 LIMIT SWITCH	1	BZE6-2RN	10A. 125V.								36	5" PIPE	3	SCH 40 9/8 TOE												
6 BLOWER	1	SCHWITZER #4504	315 C.F.M. 4Ø								37	5" 90° ELBOW	2	WELD F.R. 125 LBS												
6-1 INTAKE FILTER	1	CCS-312									38	5" 90° ELBOW	1	STD. LONG TANGENT												
6-2 INTAKE SILENCER	1	RIS-312									39	5" 45° ELBOW	1	STD. LONG TANGENT												
6-3 1/2 HP MOTOR T.E.M.V.	1	1800 RPM.	240 V. 3Ø, 60 HZ.								40	6" PIPE ASSY	1	DWG 3714-7												
6-4 PRESSURE GAUGE	1	# P-500 Q TO 30 PSI	3 1/2" DIA. 1/4" NPT.								41															
6-5 PRESSURE SWITCH	1	BAKESDALE # CO 2T-H18	5 P.S.T. 125V.A.C.								42	6" TRANSITION	1	DWG 3714-11												
6-6 DISCHARGE SILENCER	1	RD-312									43	INTRUMENT FLANGE	1	1/2" PIPING ASSY. AT 829												
6-7 2" RELIEF VALVE	1	#337 KUNKLE									44	SHAFT GUARD	1	DUCON Dwg 4T-824-B												
6-8 3" CHECK VALVE	1	Disc. Diastic Iron Bush									45	SHAFT GUARD	2	Dwg 4T-824-B												
											46	6" FLEX. COUPLING	1	W/CLAMPS												
											47															
7 LEVEL INDICATOR HI	1	MOD. KA. MONITOR	110V. 60 HZ.								48	6" GASKET	3	1/8" THK. RUBBER # 15225												
8 " " INTER	1	" " "	" " "								49	6" O-RING	1	6" O" RUBBER # 3714-L12												
9 " " LO	1	" " "	" " "								50	3" O-RING	2	3" O" RUBBER # B62												
10 " " HI	1	" " "	" " "								51	3" PIPE		SCH. 40. T.P.S. 3" LG.												
11 " " LO	1	" " "	" " "								52	3" 90° ELBOW	1	HPS BEND 1Ø LB SCH 40 9/8	4T-725-4											
											53	3" 45° ELBOW	1	HPS BEND 1Ø LB SCH 40 9/8	4T-699-4											
12 HOPPER	1	DUCON Dwg 3714-8									54	3" TEE	1													
											55	3" FLANGE	2	SCH 40 9/8 3T-821												
13 HOPPER	1	DUCON Dwg 3714-8									56	6" FLANGE	2	SCH 40 9/8 3T-851-B												
14 BIN ACTIVATOR 3-Ø	1	VIBRANETICS, Dwg B-101-05-18-85									57	3/4"-10 L.H.H.B 2 1/2 LG	60	W/Hex NUTS												
14-1 GYRATOR MOTOR	1	3/4	240V. 3Ø, 60 HZ.								58	5/8"-11 L.H.H.B 2 LG	60	W/Hex NUTS												
											59	45° LATERAL 3"	1	STD. WT. SCH 40												
											60	3" COUPLING	3	T-225-K A 16146												
15 BIN ACTIVATOR 3-Ø	1	VIBRANETICS, Dwg B-101-05-18-85									61	3" 45° SCH 40 PIPE	1	2" LONG T.O.E.												
15-1 GYRATOR MOTOR	1	3/4	240V. 3Ø, 60 HZ.								62	DUST CAP 1 Ø C.	1	EVERTITE												
											63	45° LATERAL 3"	2	STD. WT. SCH 40												
16 6" KNIFE GATE VALVE	1	VIBRANETICS Dwg 900-95									64	3" CPLG	6	T-225-K M/N # A 16146												
											65	3" CAP	2	STD. WT. SCH 40												
17 6" KNIFE GATE VALVE	1	VIBRANETICS Dwg 900-95																								
18 3" DIVERTING VALVE	1	DUCON																								
18-1 MOTOR	1	1/4 HP. 1800 RPM	240V. 3Ø, 60 HZ.																							
18-2 LIMIT SWITCH	1		10A. 125V.																							
18-3 LIMIT SWITCH	1		10A. 125V.																							
19 4" SCH 40 PIPE	1	TOE																								
19-1 4" QUICK COUPLING	1	EVER-TITE																								
19-2 4" DUST CAP/CHAIN	1	EVER-TITE																								
19-3 LIMIT SWITCH	1		10A. 125V.																							

"It is hereby certified that the (EQUIPMENT) (MATERIALS) shown and marked in this submittal is that proposed to be incorporated into contract number 3714-2. It is certified that the (EQUIPMENT) (MATERIALS) shown in this submittal is in accordance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval.
Certified by: [Signature] Date: 6-25-50

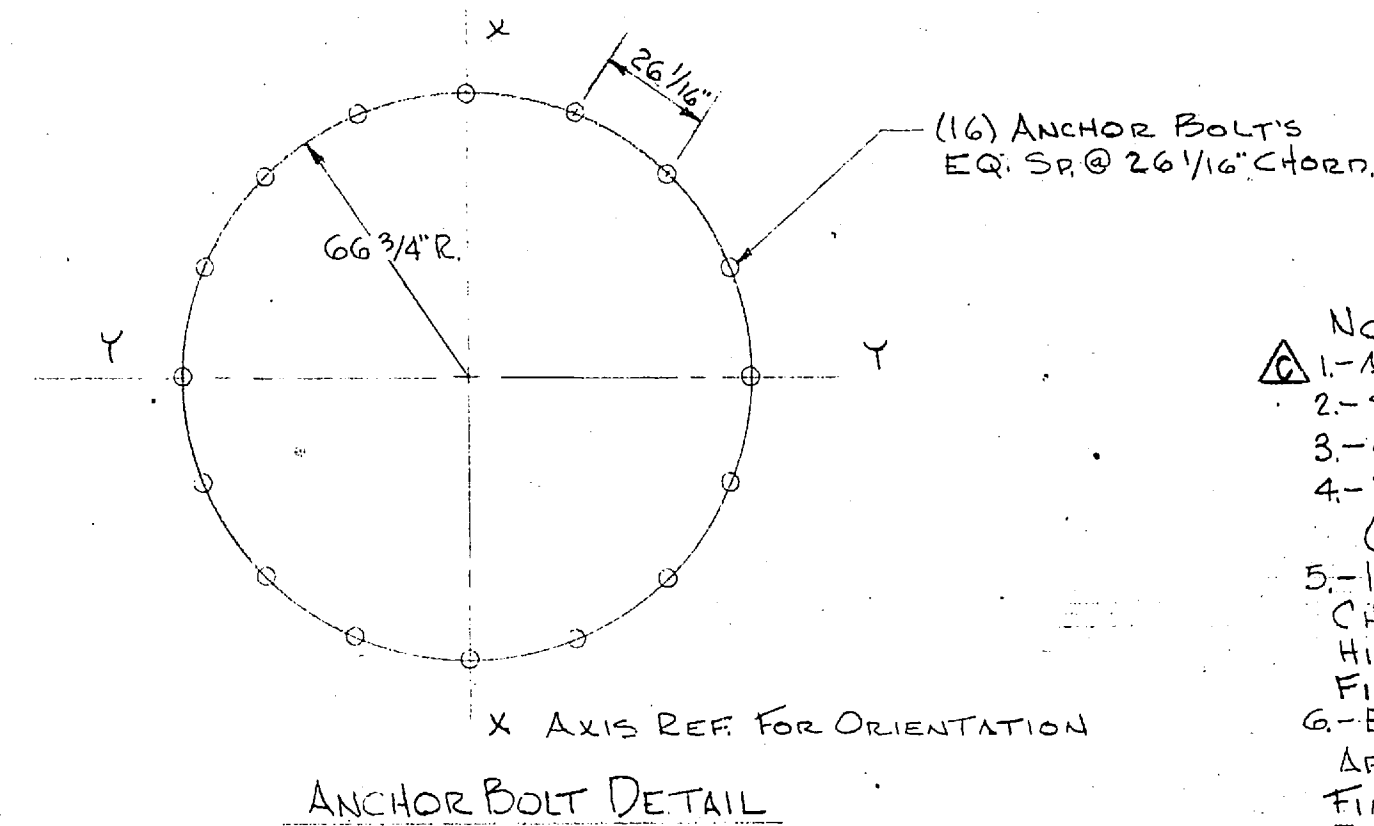
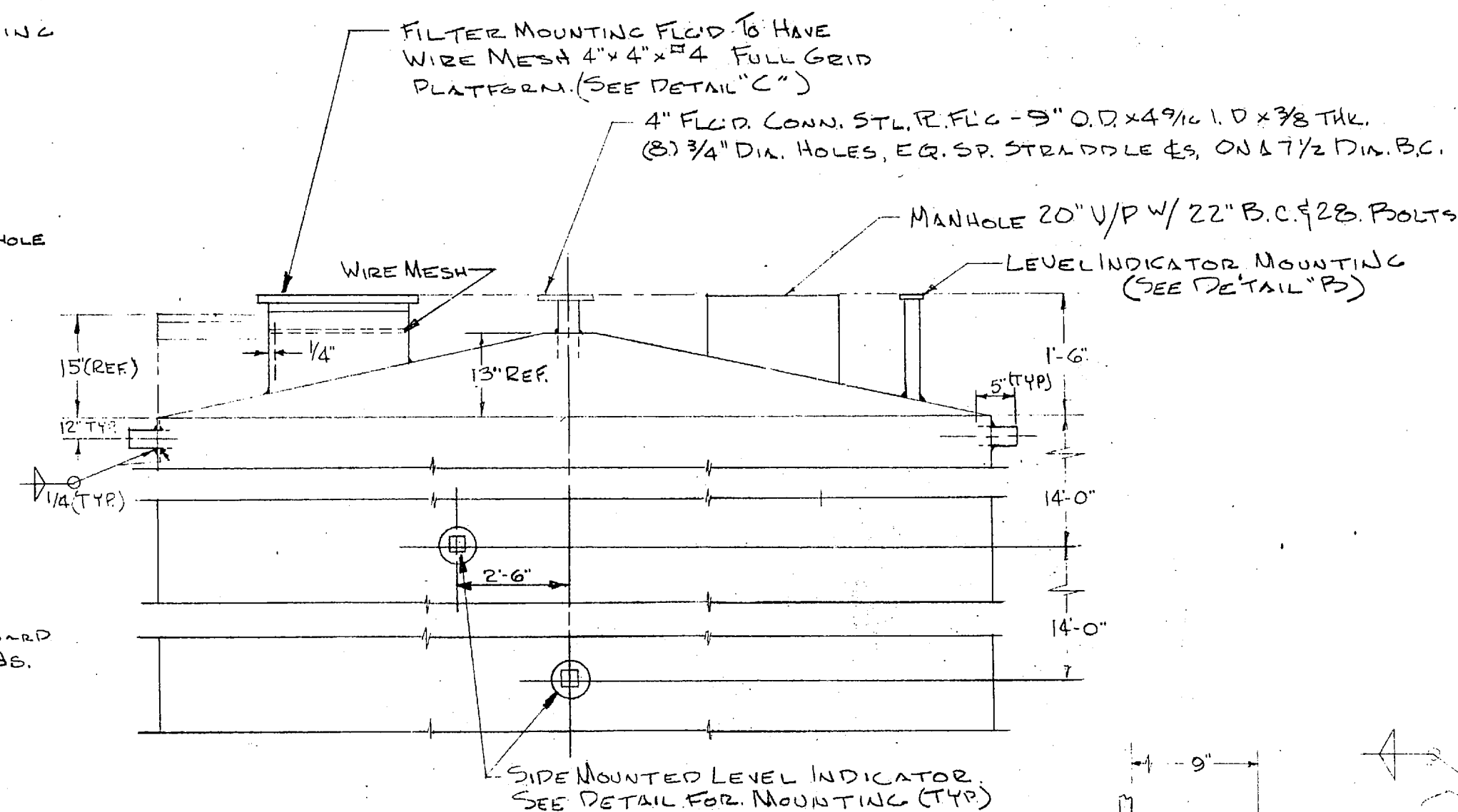
- NOTES:
- 1- FILTER: RECEIVER SHIPPED WITHOUT BAGS, CAGES, AND BAND CLAMPS ASSEMBLED
 - 2- NUMERICAL IDENTIFICATION IN SHIP STATUS COLUMN INDICATES ITEM TO WHICH THESE ITEMS ARE ASSEMBLED. EXAMPLE, 6 IN SHIP COL. INDICATES ITEMS 6-1, 6-2, AND 6-3 ARE ASSEMBLED TO ITEM 6 AND IS SHIPPED AS UNIT.
 - 3- "L" INDICATES ITEM SHIPPED LOOSE.
 - 4- "F" INDICATES ITEMS FURNISHED BY DUCON. FLUID TRANSPORT. "NF" INDICATES ITEMS NOT FURNISHED BY DUCON. FLUID TRANSPORT.
 - 5- "P" PROPRIETARY DRAWINGS.

AS BUILT
REV. BY DATE GENERAL
DESCRIPTION
CH. DATE
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DUCON FLUID TRANSPORT DIVISION
THE DUCON COMPANY INCORPORATED
Subsidiary of United States Filter Corporation
BILL OF MATERIAL
FOR: MARINE CORPS BASE
SCALE: NONE
CONTRACT NO: 3714
REV. 1
DRAWN: REC
CHECKED: [Signature]
APPROVED: [Signature]

THE UNIVERSITY OF CHICAGO
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540 EAST 57TH STREET
CHICAGO, ILL. 60637
TEL: 773-936-3000

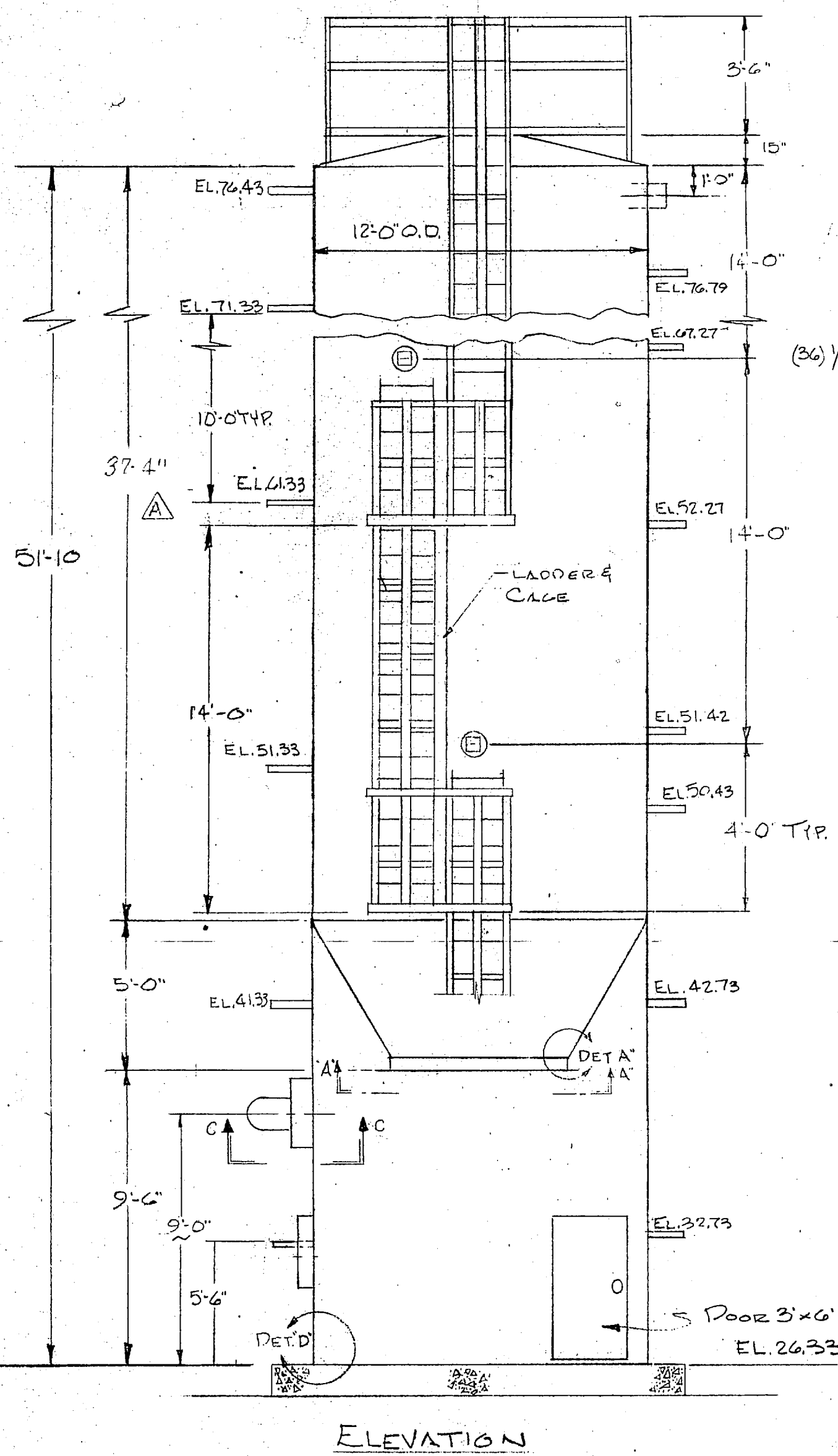


ORIENTATION PLAN

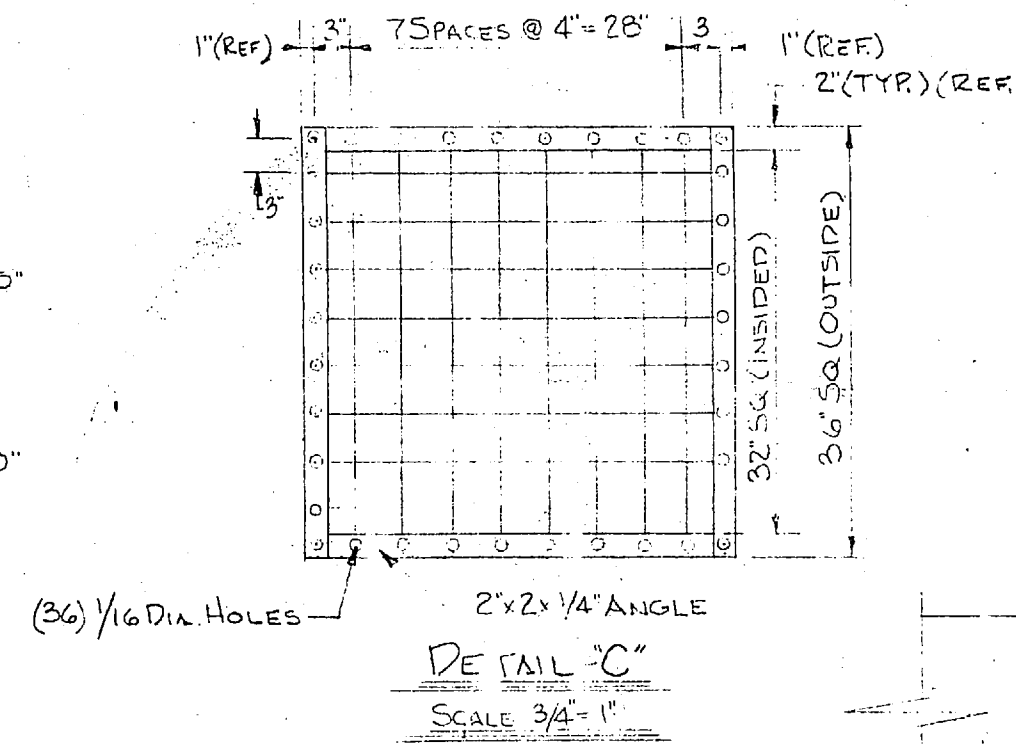


ANCHOR BOLT DETAIL

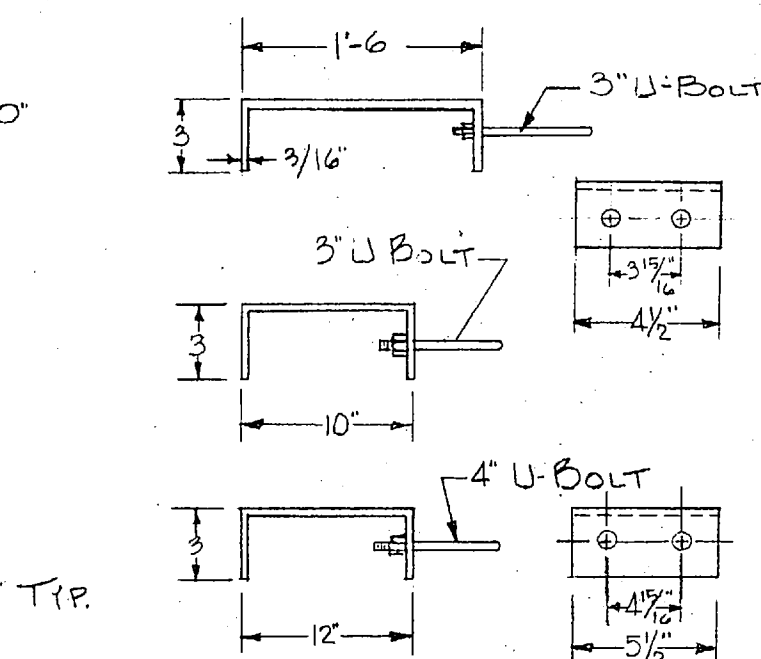
- NOTES:
- 1- ALL MAT'L. TO BE CARBON STEEL. QLT 3/16" SKT.
 - 2- SILO TO BE ALL WELDED CONSTRUCTION
 - 3- CAPACITY: 4,000 CU FT. (USABLE)
 - 4- WEIGHT: 76,100 # PLUS ACCESSORIES (MAT'L. USED - LIME WITH 30#/CU FT. DENSITY)
 - 5- INTERIOR FINISH: INTERIOR PRIMER ZINC CHROMATE. INTERMEDIATE ENAMEL UNDER COAT HIGH GLOSS OR SEMI GLOSS. FINISH ONE COAT OF INTERIOR GLOSS ENAMEL.
 - 6- EXTERIOR FINISH: ONE COAT RED-LEAD PRIMER APPLIED TO MINIMUM DRY FILM THICKNESS OF 1.0 MIL. FINISH WITH TWO OF SILICONE ACRYL GLOSS ENAMEL EACH COAT APPLIED TO MINIMUM DRY FILM THICKNESS OF 1.5 MILS.
 - 7- LUGS INSIDE SKIRT FOR LIFTING BIN ACTIVATOR (MIN. 1/4" THK. CARBON STEEL)
 - 8- SILO TOP COVER QUARRAILS SHALL BE 1 1/2" STL. PIPE, TOE BROAD SHALL BE 4" AND SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.



ELEVATION

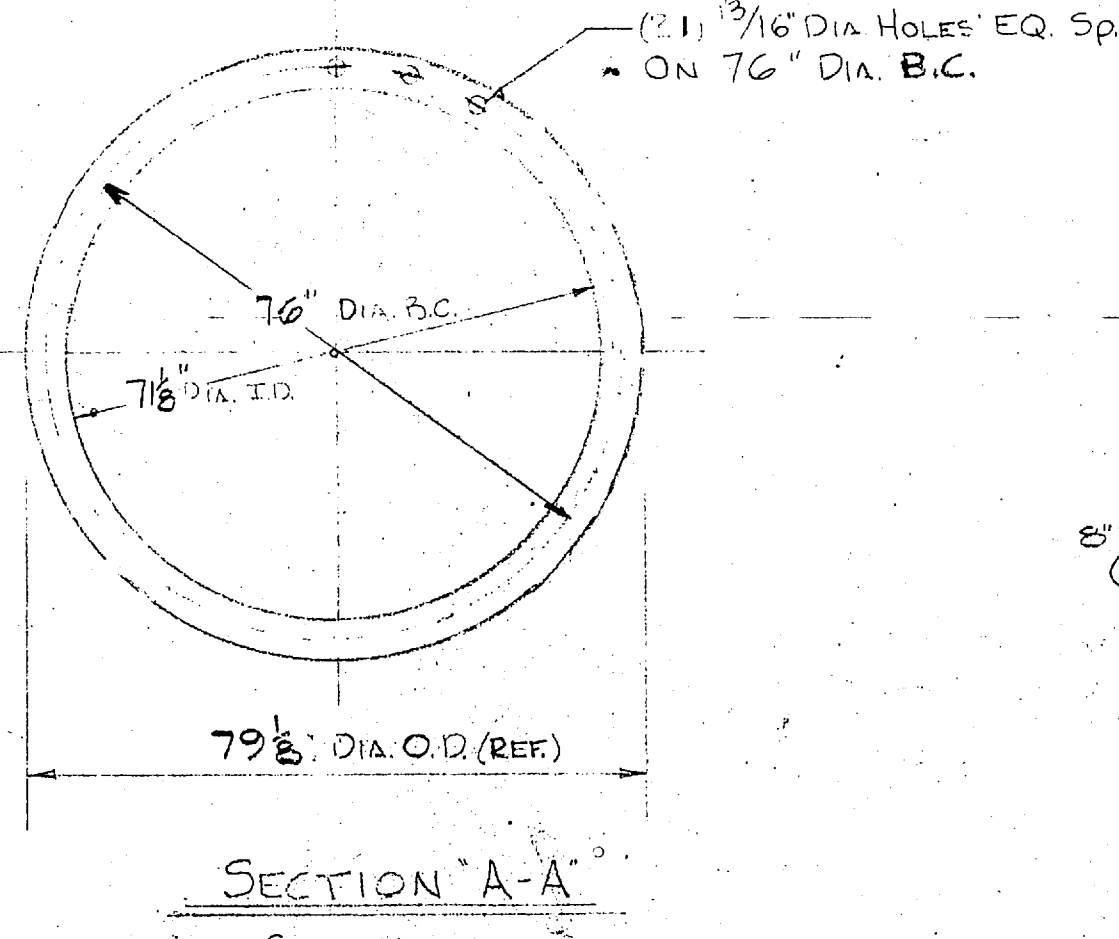


DETAIL "C" SCALE 3/4" = 1"

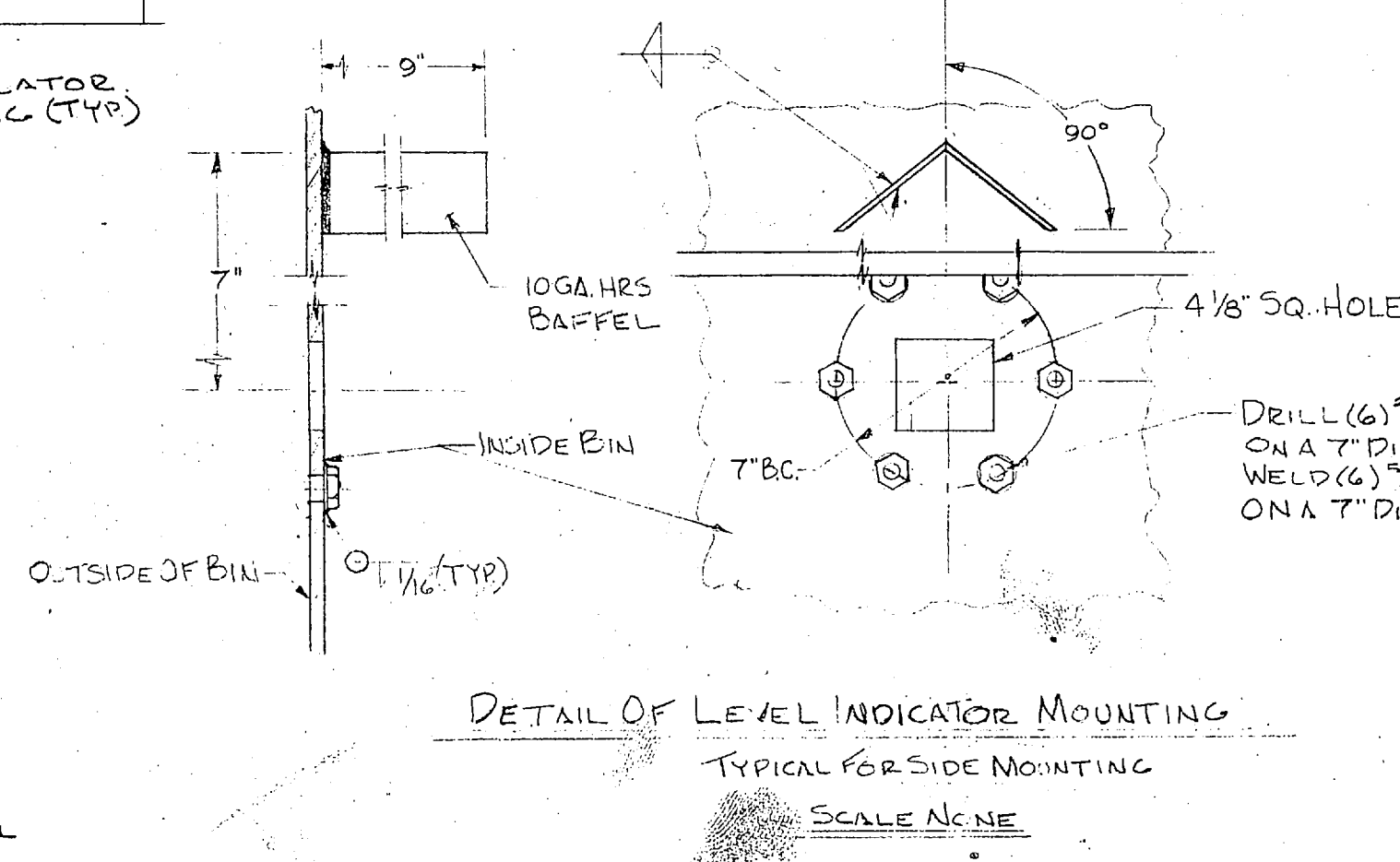


DETAIL "A" SCALE NONE

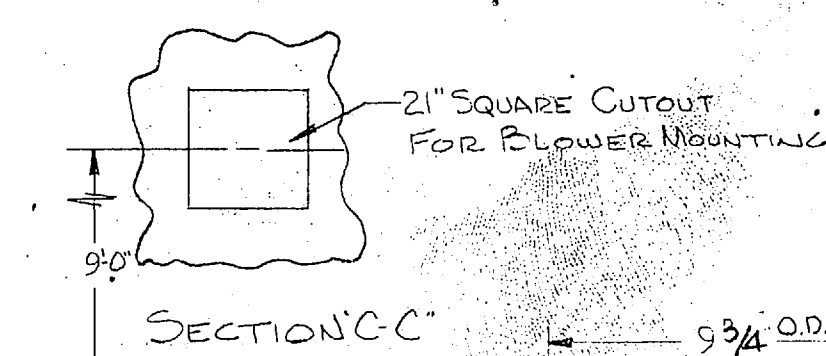
PIPE SUPPORT



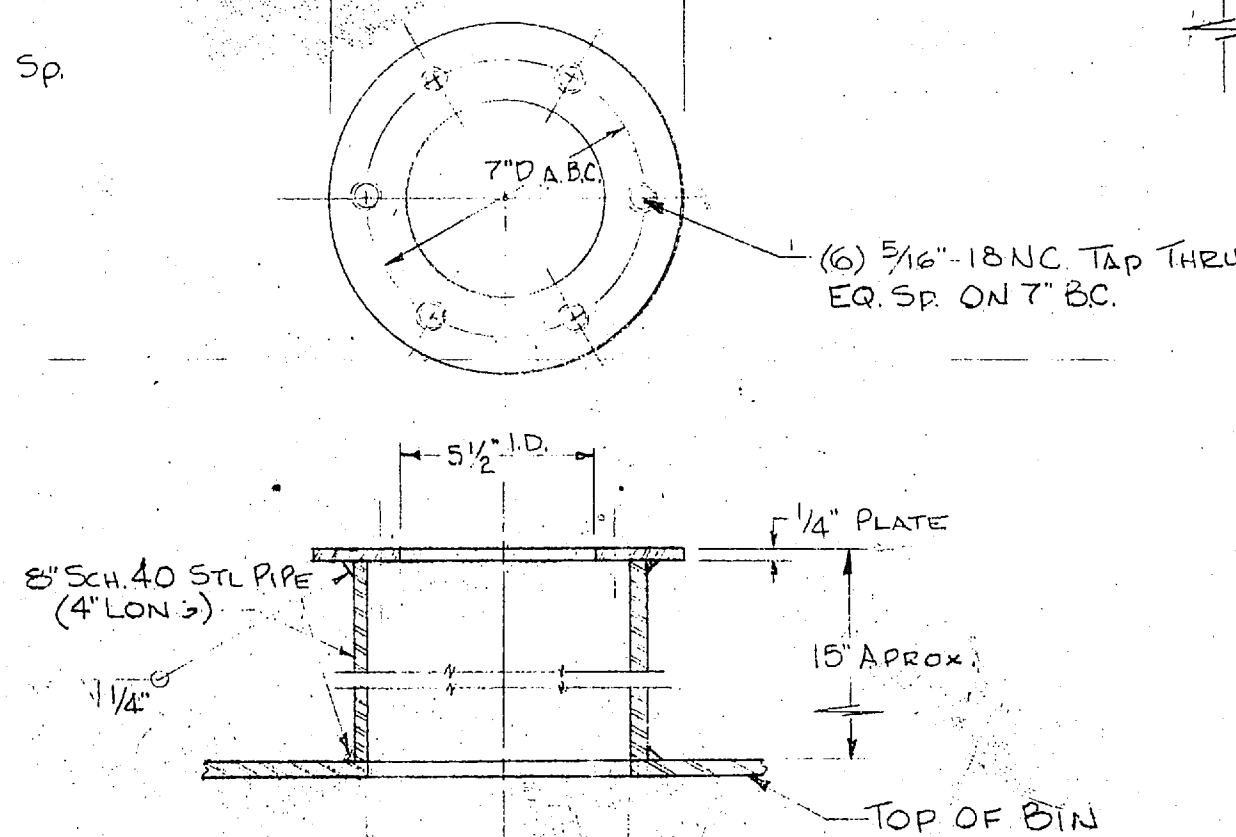
SECTION "A-A" SCALE NONE



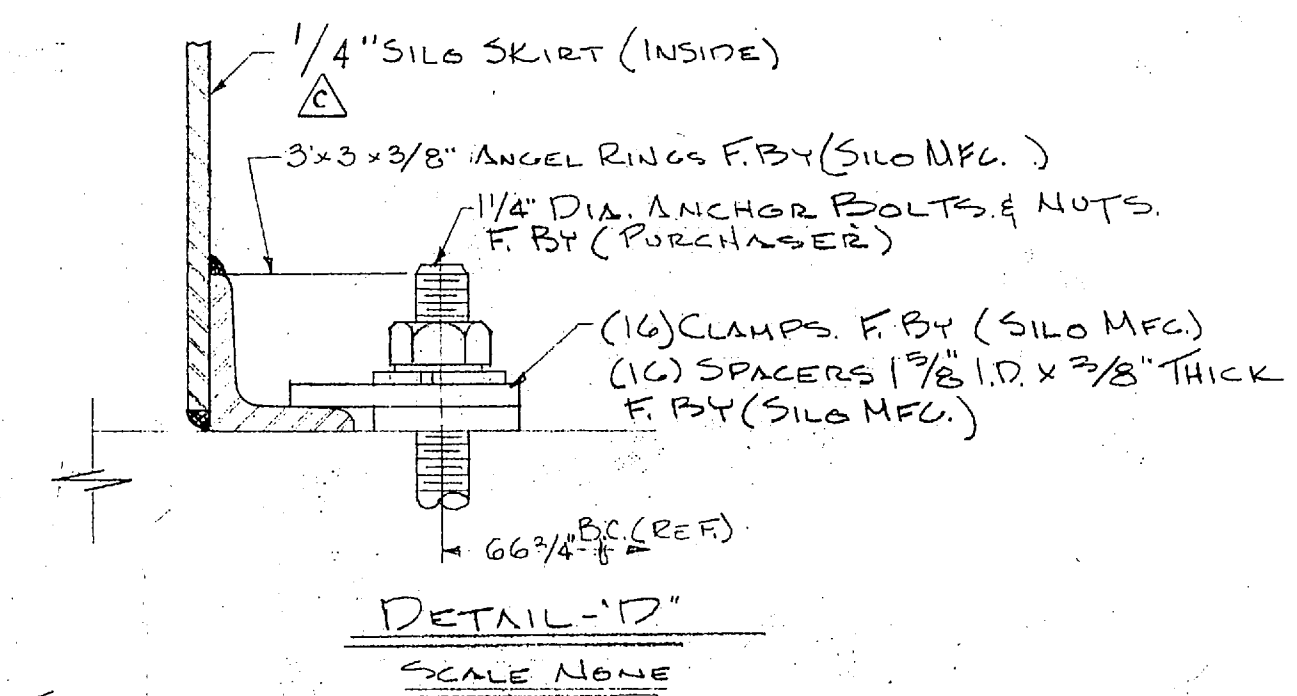
DETAIL OF LEVEL INDICATOR MOUNTING TYPICAL FOR SIDE MOUNTING SCALE NONE



SECTION "C-C"



DETAIL "B" SCALE NONE



DETAIL "D" SCALE NONE

REV.	BY	DATE	DESCRIPTION	GM	DA
D	LG	10/30	REMOVED SILO GRATING - NOT RECD BY SUPP	26	
C	E	7/76	1/4 WRS 3/16" AND C/L 3/16" HIGHER 1/4" dia	6	
B	E	5/23	CHG. END CONNECTIONS	6	
A	E	5/22	NOTES	6	

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DUCON FLUID TRANSPORT DIVISION
THE DUCON COMPANY INCORPORATED
Subsidiary of United States Filter Corporation

LIME STORAGE SILO

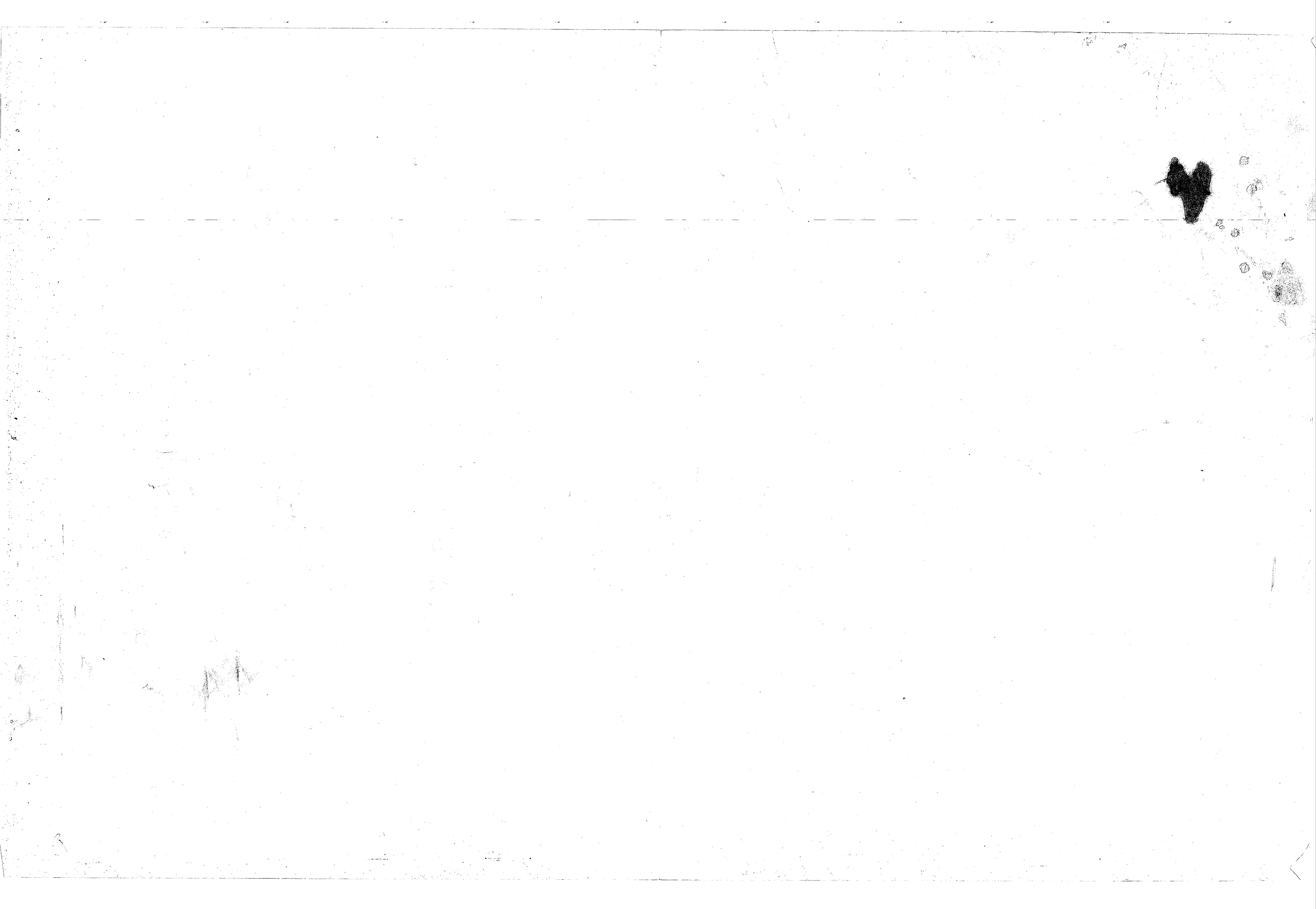
CMP LEJEUNE NORTH CAROLINA

SCALE: AS NOTED CONTRACT NUMBER: CF-3714 REV

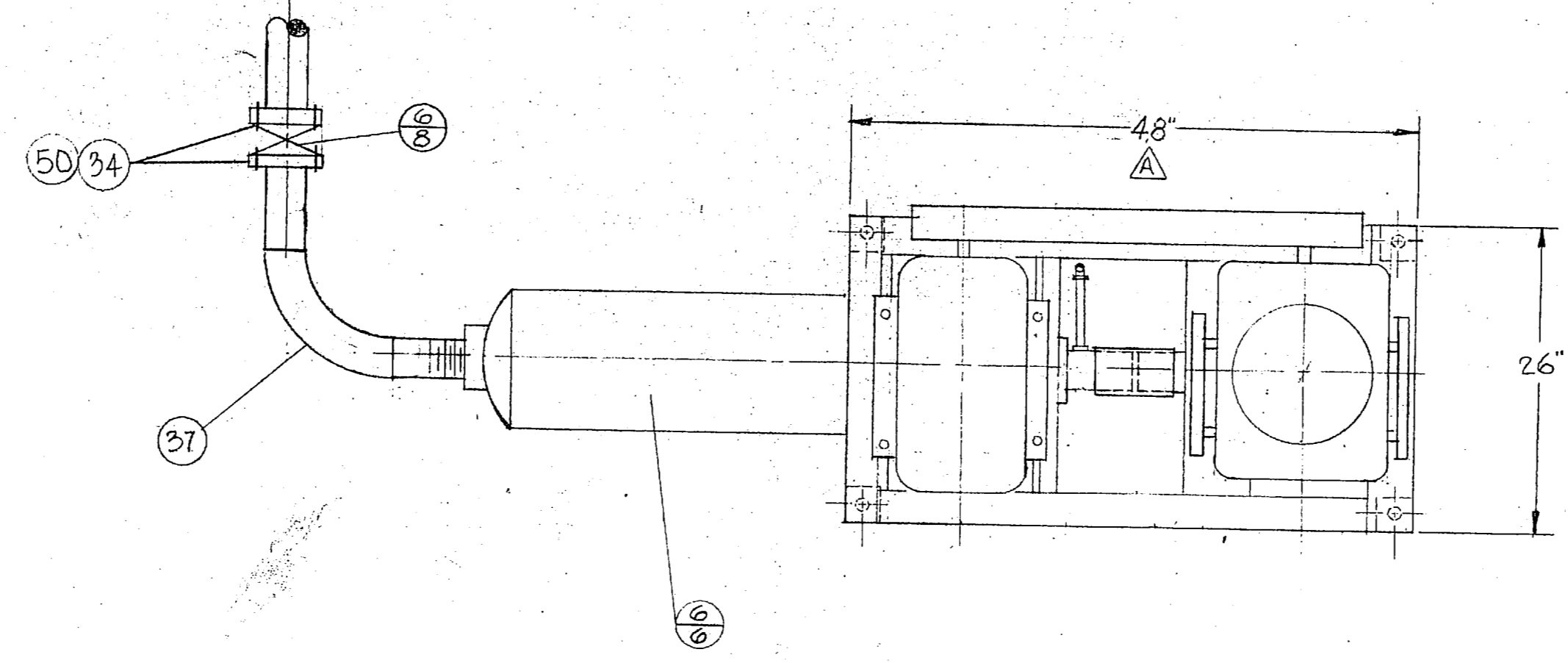
DRAWN S. HARRISON DATE: 3714-3 D

CHECKED L. GROVES DATE:

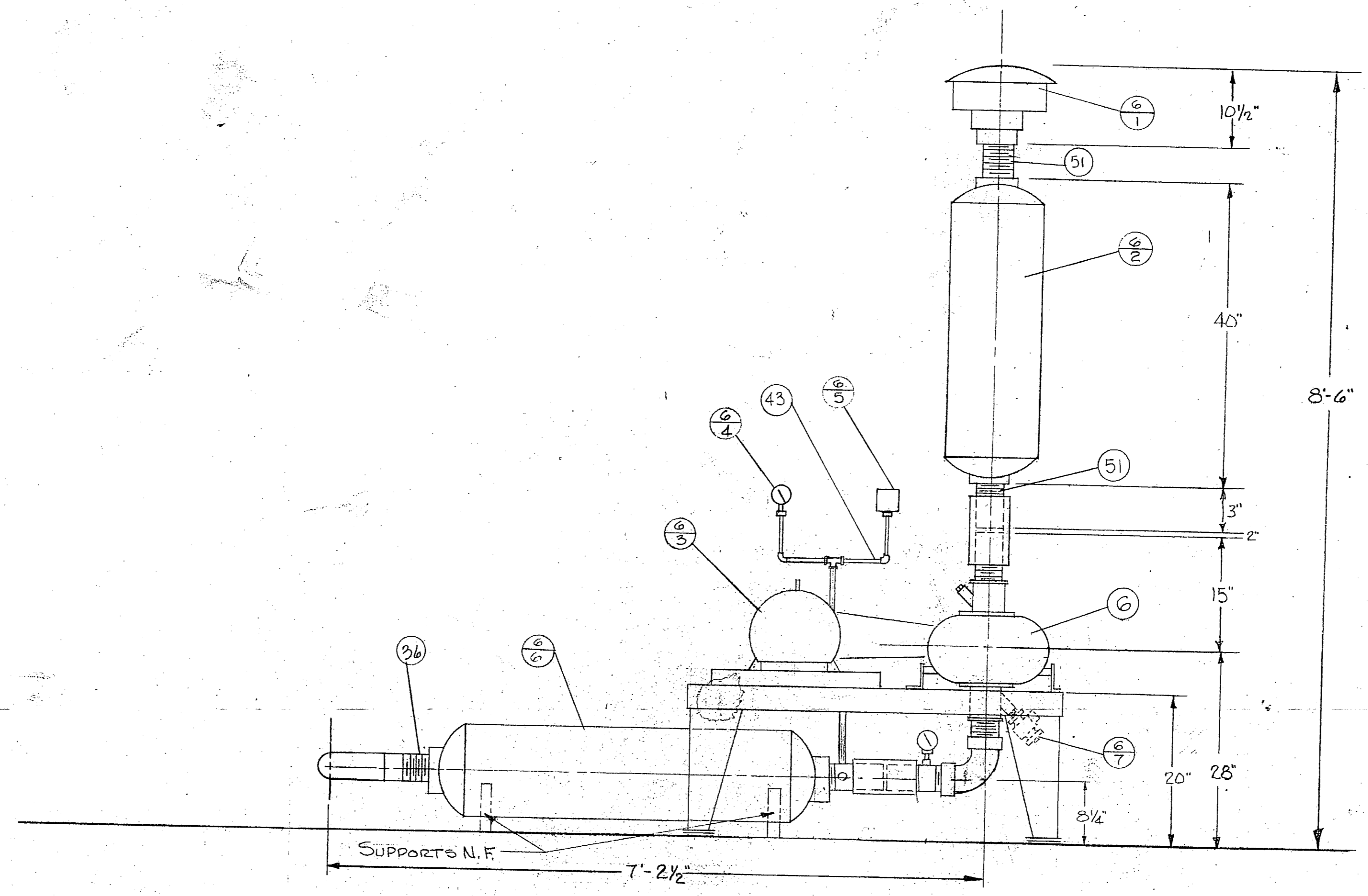
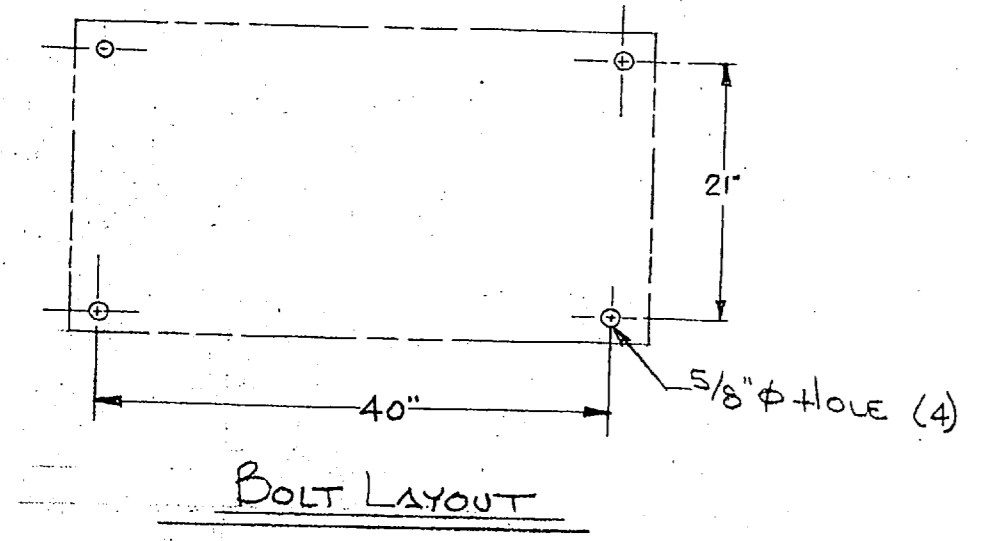
APPROVED L. GROVES DATE:



IMPORTANT
 PRIOR TO STARTING EITHER A PRESSURE OR VACUUM PUMP INSERT A SCREEN ON THE INLET SIDE OF THE PUMP. THE SCREEN SHOULD CONSIST OF 1/16" MESH BACKED UP WITH 1/2" HARDWARE CLOTH AND TWO (2) GASKETS. THE SCREEN MAY BE REMOVED AFTER TWO (2) HOURS OF OPERATION. HOWEVER INSURE THAT ALL SLUGS AND MATERIALS SUCH AS WELDING ROD, SCRAP METAL, TRUCKS, GLOVES, ETC. IS REMOVED FROM THE INLET PIPE PRIOR TO REMOVING SCREEN AND DURING BLOWER OPERATION TAP INLET PIPE TO PURGE ALL DEBRIS.



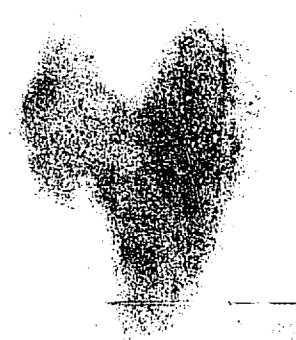
BLOWER DATA
 MTR. H.P.: 10 MTR. SPEED 1800 R.P.M. BHP 7
 BLOWER SPEED: 3300 R.P.M.
 BLOWER CAPACITY: 375 I.C.F.M. @ 4 P.S.I.G.
 DRIVER SHEAVE: 36-3V-65 BUSHING: 2517
 BORE: 13/8
 DRIVEN SHEAVE: 36-3V-335 BUSHING: 1610T
 BORE: 17/16
 BELTS: 3V-600
 C. D.: 22.8"
 RELIEF VALVE SETTING: 6
 BLOWER 221
 FRAME 100
 MOTOR 27
 MISC. 100
 448 # TOTAL WEIGHT



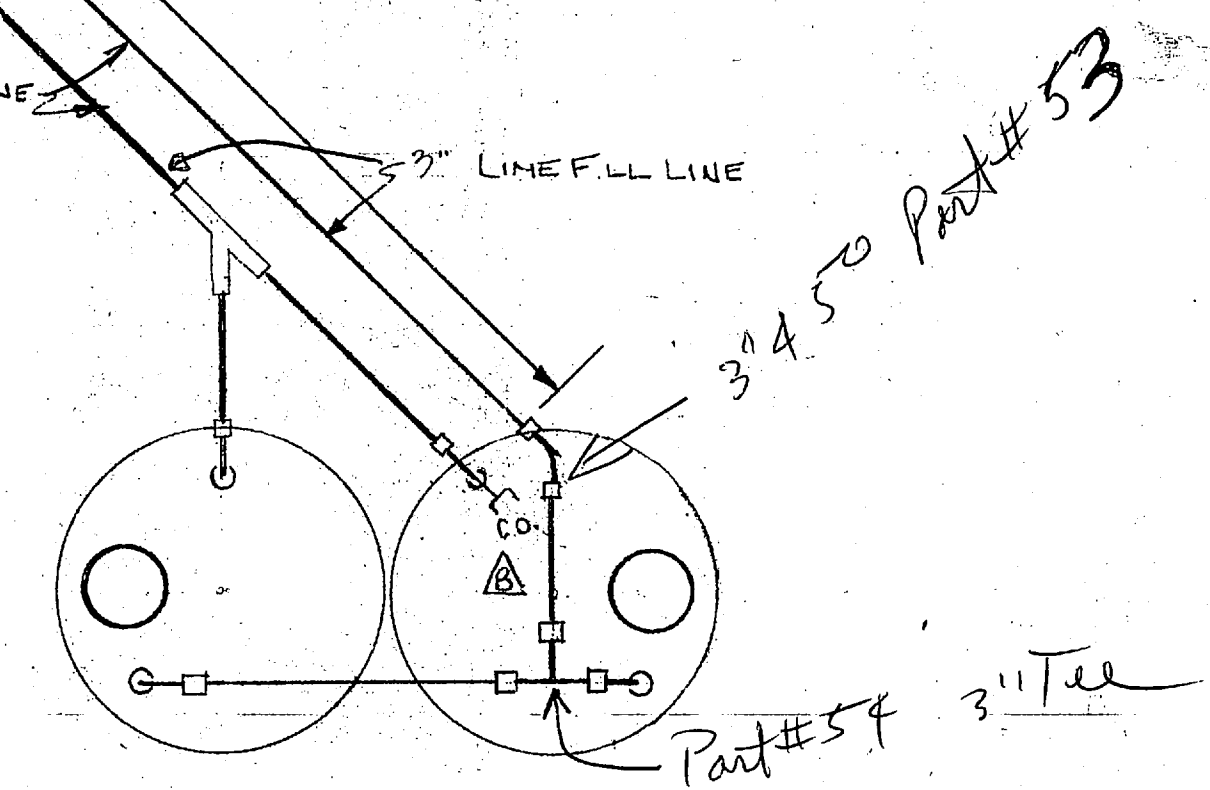
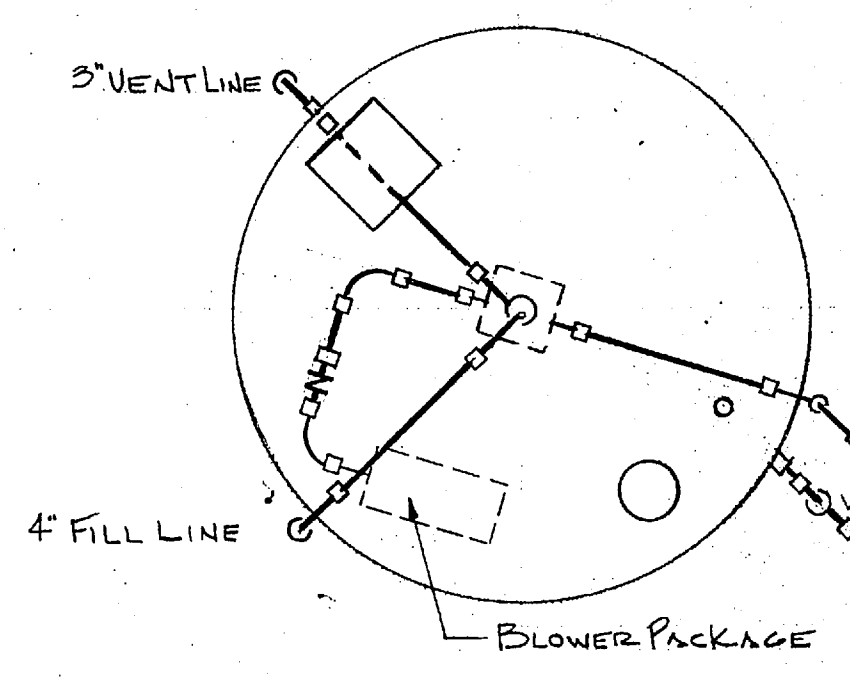
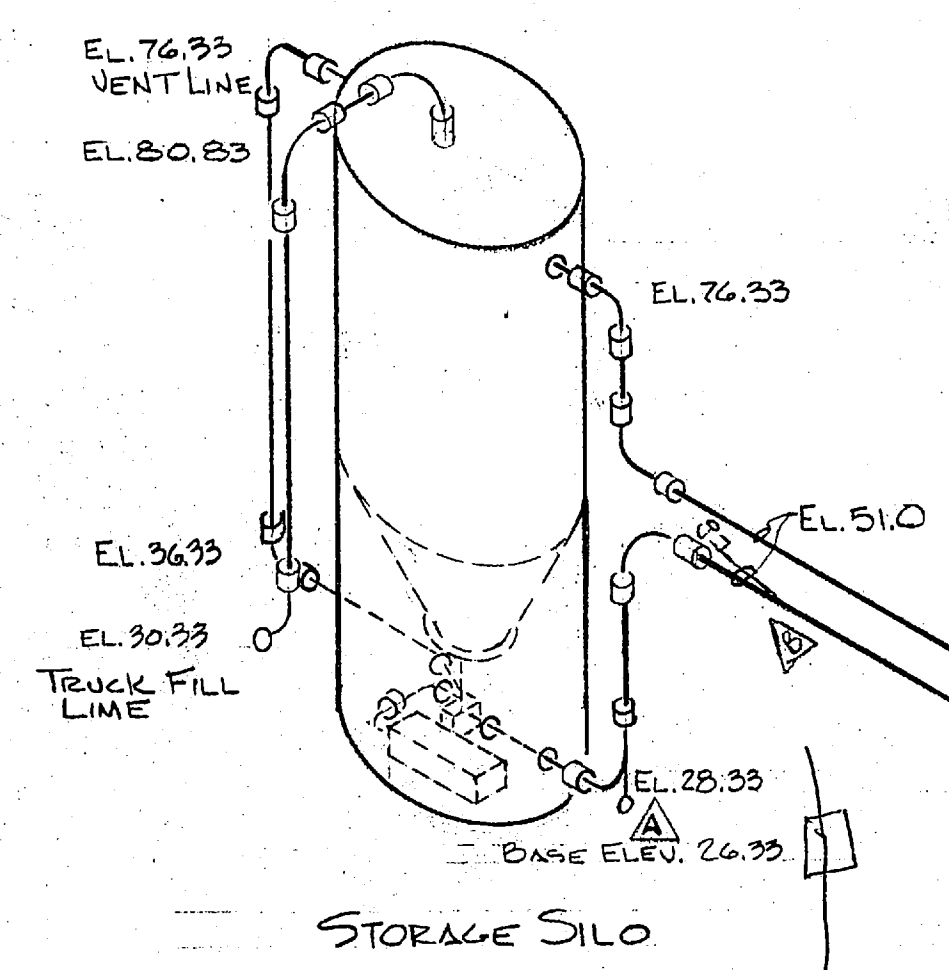
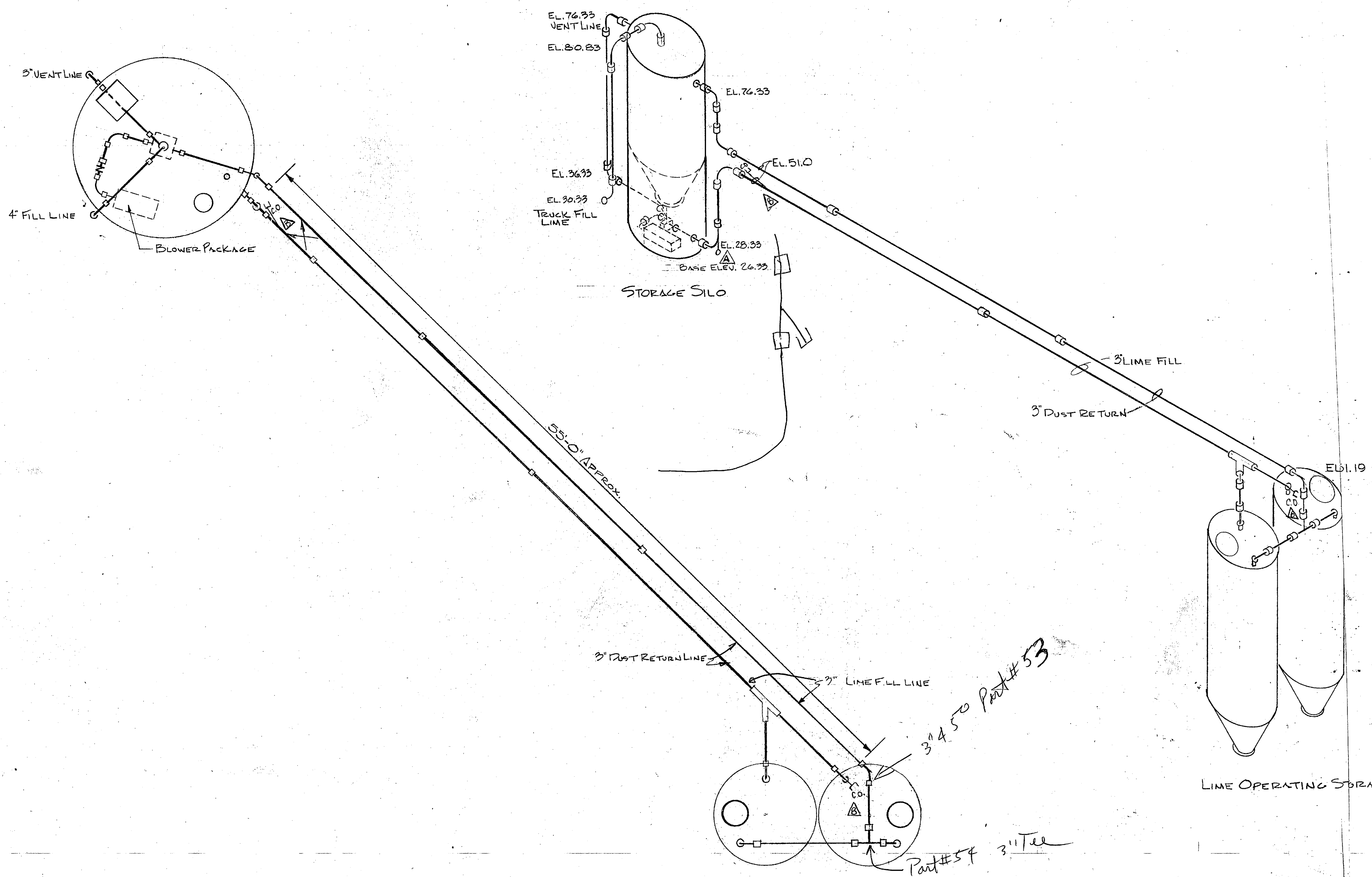
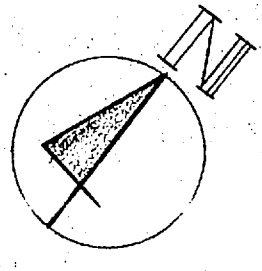
"I hereby certify that the (circled) materials shown and marked in this drawing is that prepared to be installed by contract number 79-C-2647. I am not responsible for any errors and omissions that may result in the construction of any part of the equipment shown on this drawing."

Wiley 6-25-80

REV. BY DATE		DIM 48" WAS ADD HOLE SIZE		CH. DATE
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		DUCON FLUID TRANSPORT DIVISION THE DUCON COMPANY INCORPORATED Subsidiary of United States Filter Corporation		
4504 BLOWER PACKAGE ARRANGEMENT				
CAMP LE JEUNE		NORTH CAROLINA		
SCALE: 1" = 1'-0"	CONTRACT NUMBER: CF 3714	DATE: 4-14-80	REV.	
DRAWN: J. HARRISON	DATE:	3714-4	A	
CHECKED: [Signature]	DATE:			
APPROVED:	DATE:			



13

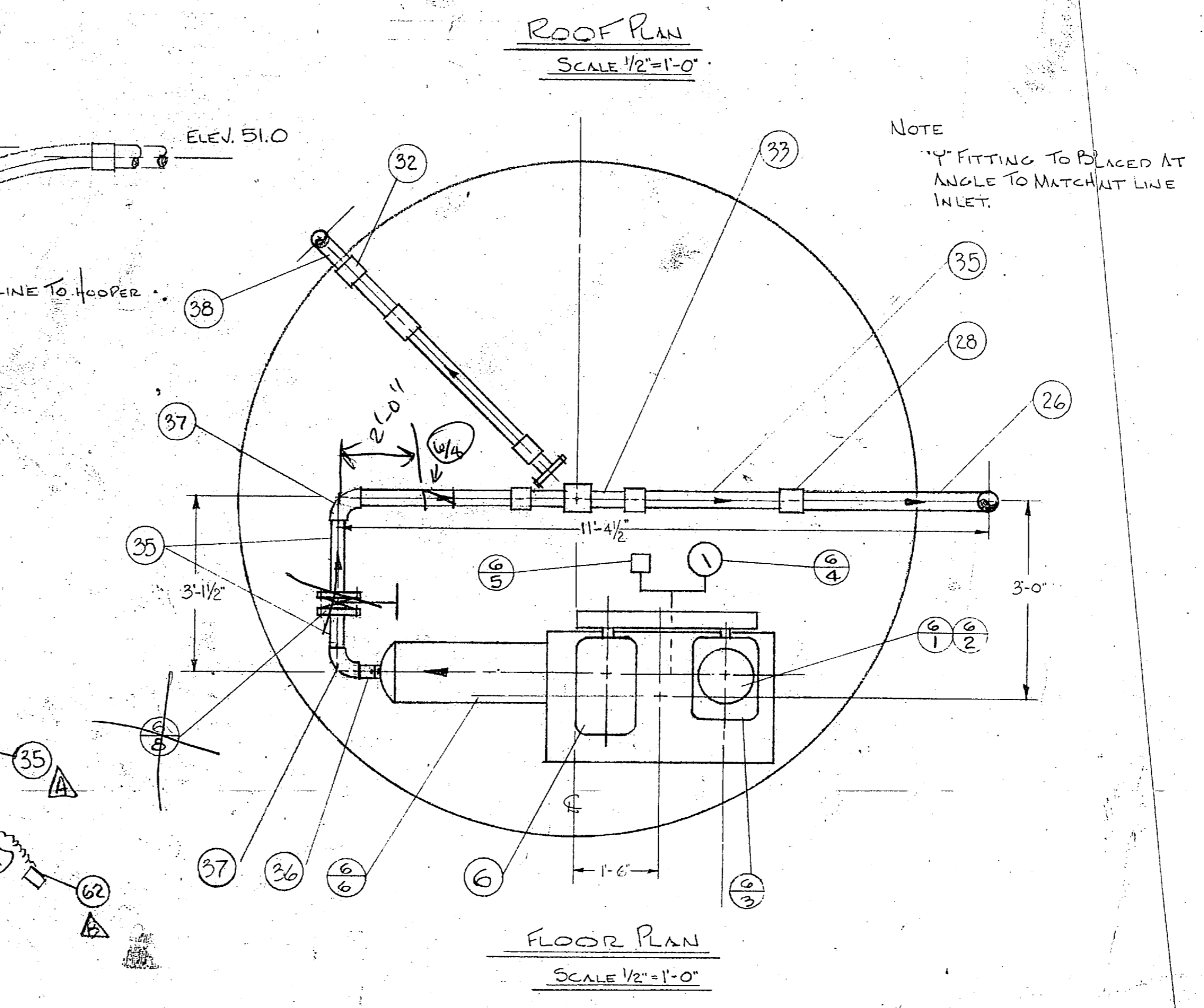
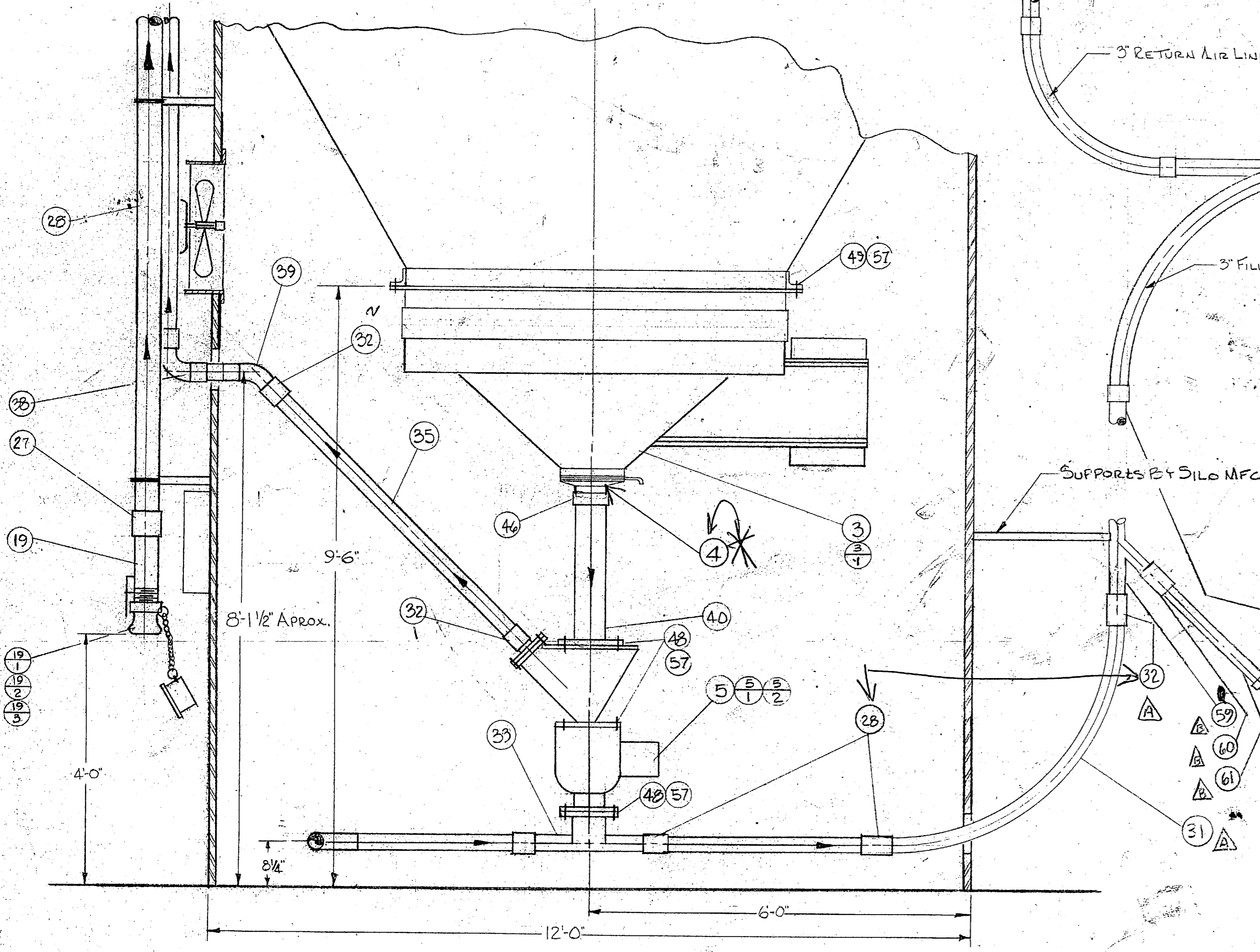
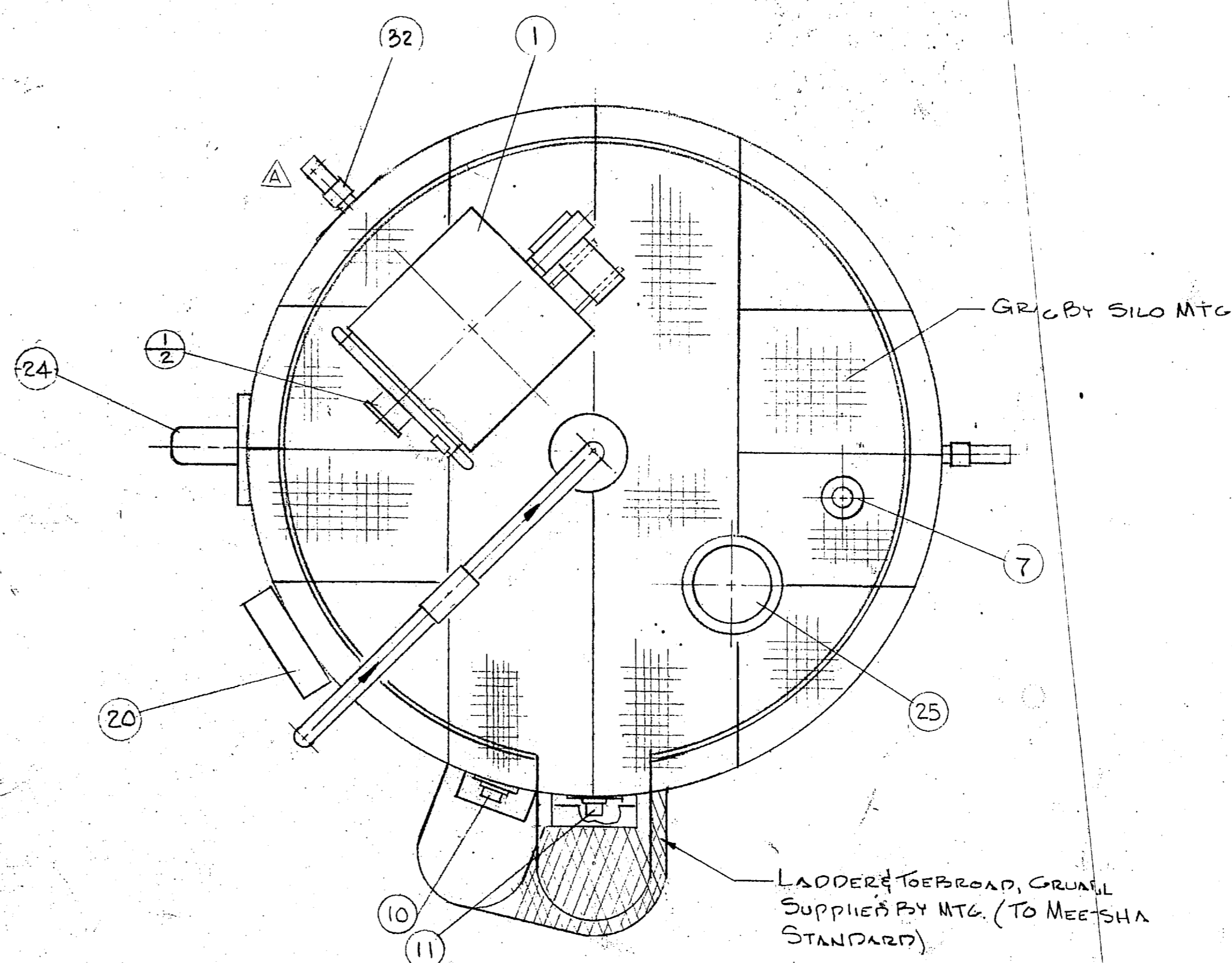
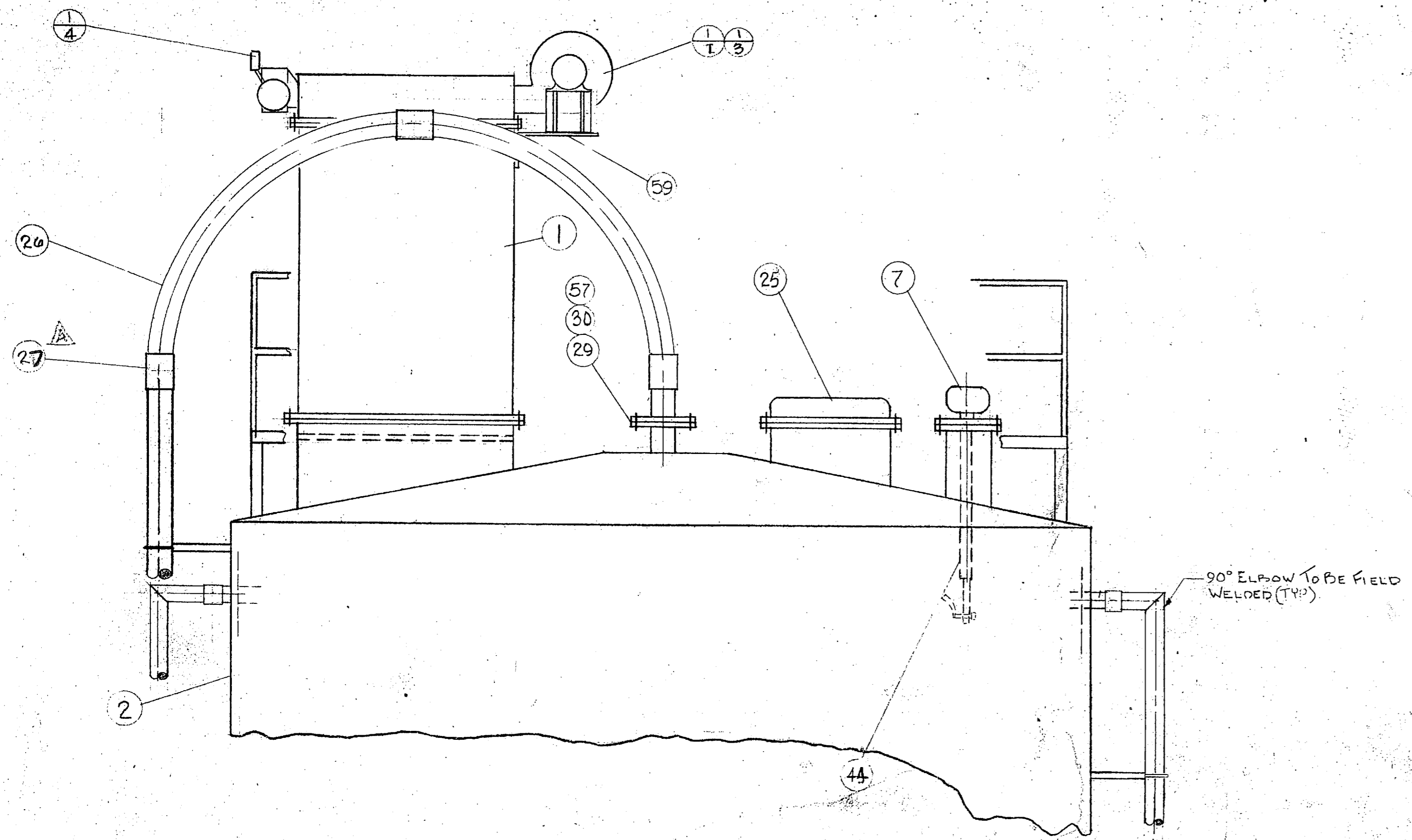


PIPING LAYOUT
SCALE: 1/4" = 1'-0"

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Certified by wly Date 6-25-80

B & 6/80	ADDED CLEANOUT		
A & 5/27/80	ADD EMERGENCY FILL LINE		
REV. BY	DATE	DESCRIPTION	CH. DATE
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		DUCON FLUID TRANSPORT DIVISION THE DUCON COMPANY INCORPORATED Subsidiary of United States Filter Corporation	
PIPING ARRANGEMENT			
SCALE: AS NOTED	CONTRACT NUMBER: CF 3714	REV.:	
DRAWN J. HARRISON	DATE: APR 18/80	3714-5	B
CHECKED 8	DATE:		
APPROVED	DATE:		

$1\frac{1}{2}$
 $5\frac{1}{6}$
 $10\frac{3}{4}$
 $11\frac{13}{16}$

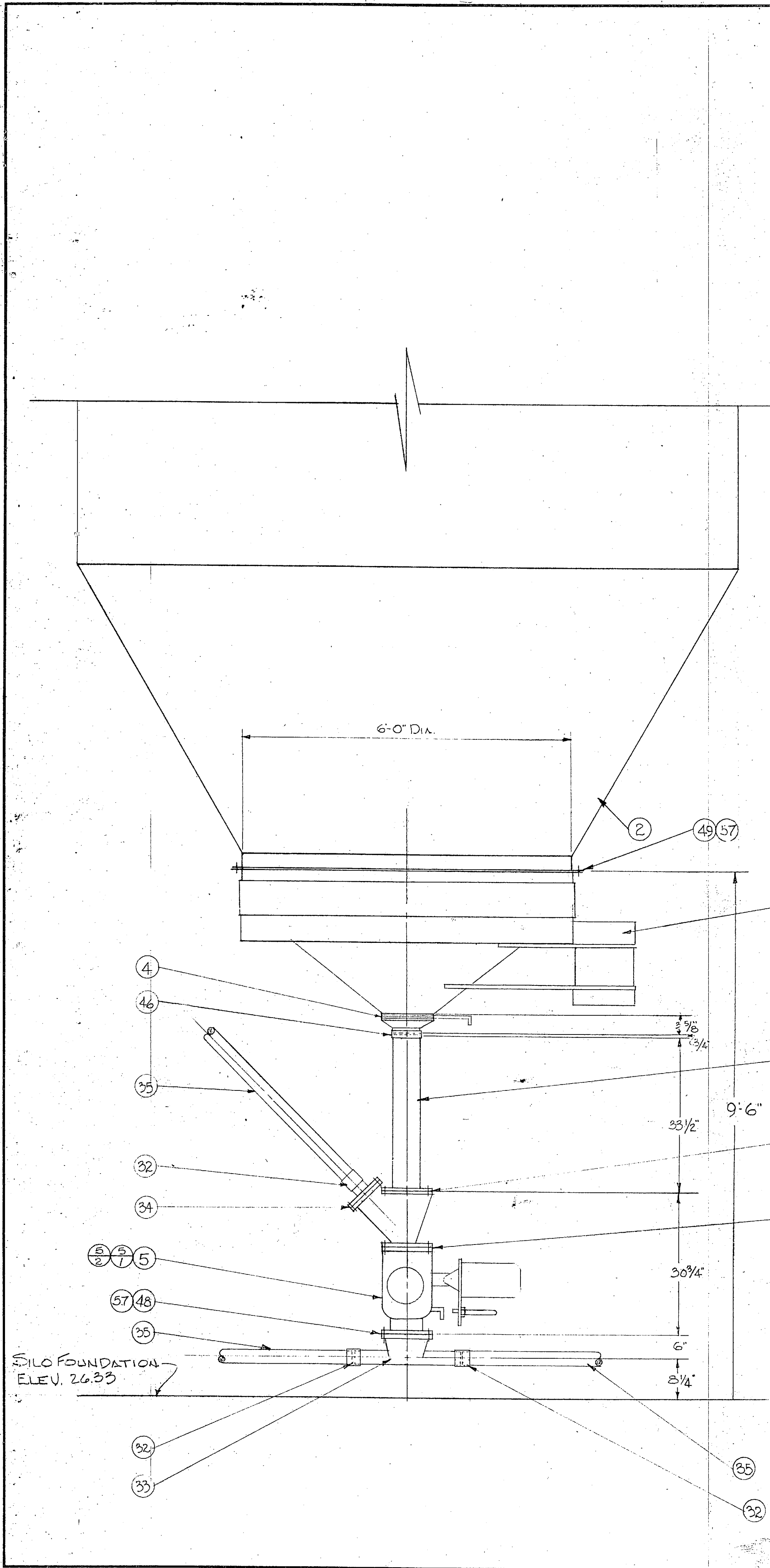


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Certified by Wiley Date 6-25-80


REV. BY DATE		DESCRIPTION	CH. DATE
A	5-22-80	REMOVED NO. GRISS	
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		DUCON FLUID TRANSPORT DIVISION THE DUCON COMPANY INCORPORATED Subsidiary of United States Filter Corporation	
<h3>SILo EQUIPMENT ARRANGEMENT</h3>			
SCALE: AS NOTED		CONTRACT NUMBER: CF3714	REV.
DRAWN: J. HARRISON		DATE: APR 24/80	
CHECKED: [Signature]		DATE:	
APPROVED:		DATE:	
3714-7 B			

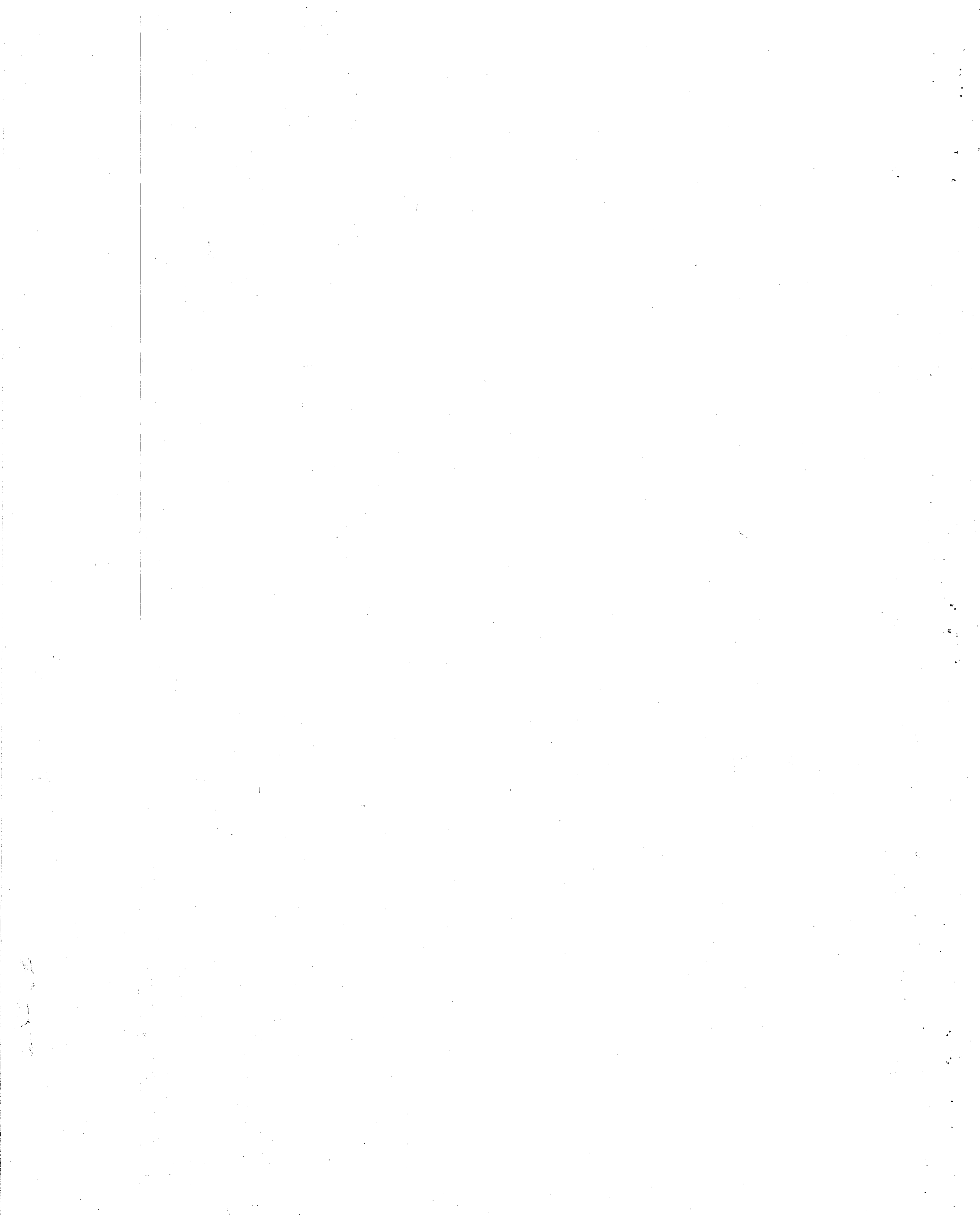
$$\begin{array}{r} 4' 5 \frac{3}{8} \\ 1' 3 \frac{1}{2} \\ \hline 5' 9 \frac{1}{4} \end{array} \quad \begin{array}{r} 2' 2 \frac{3}{8} \\ 1' 3 \frac{1}{2} \\ \hline 3' 6 \frac{3}{8} \end{array}$$

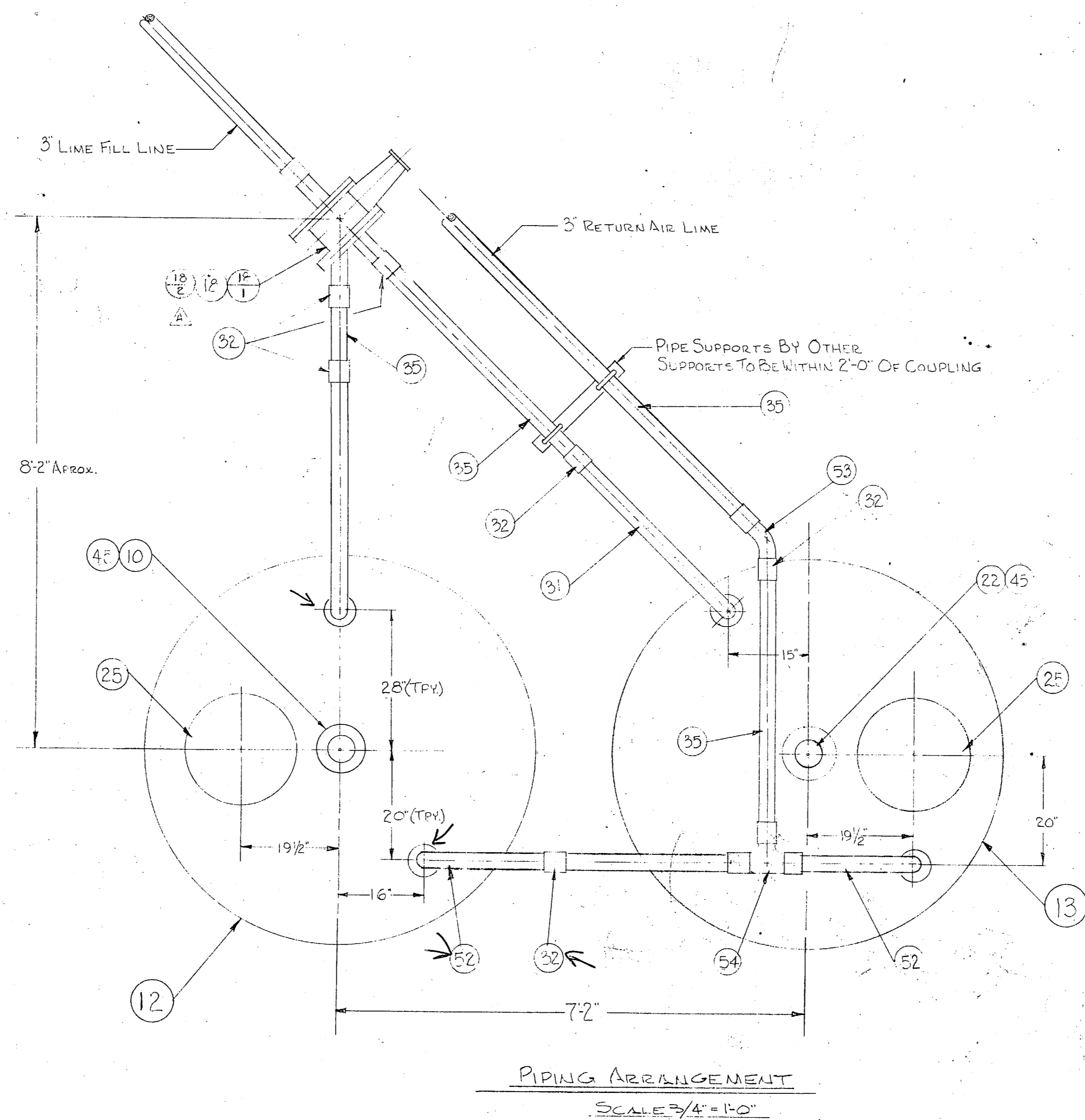
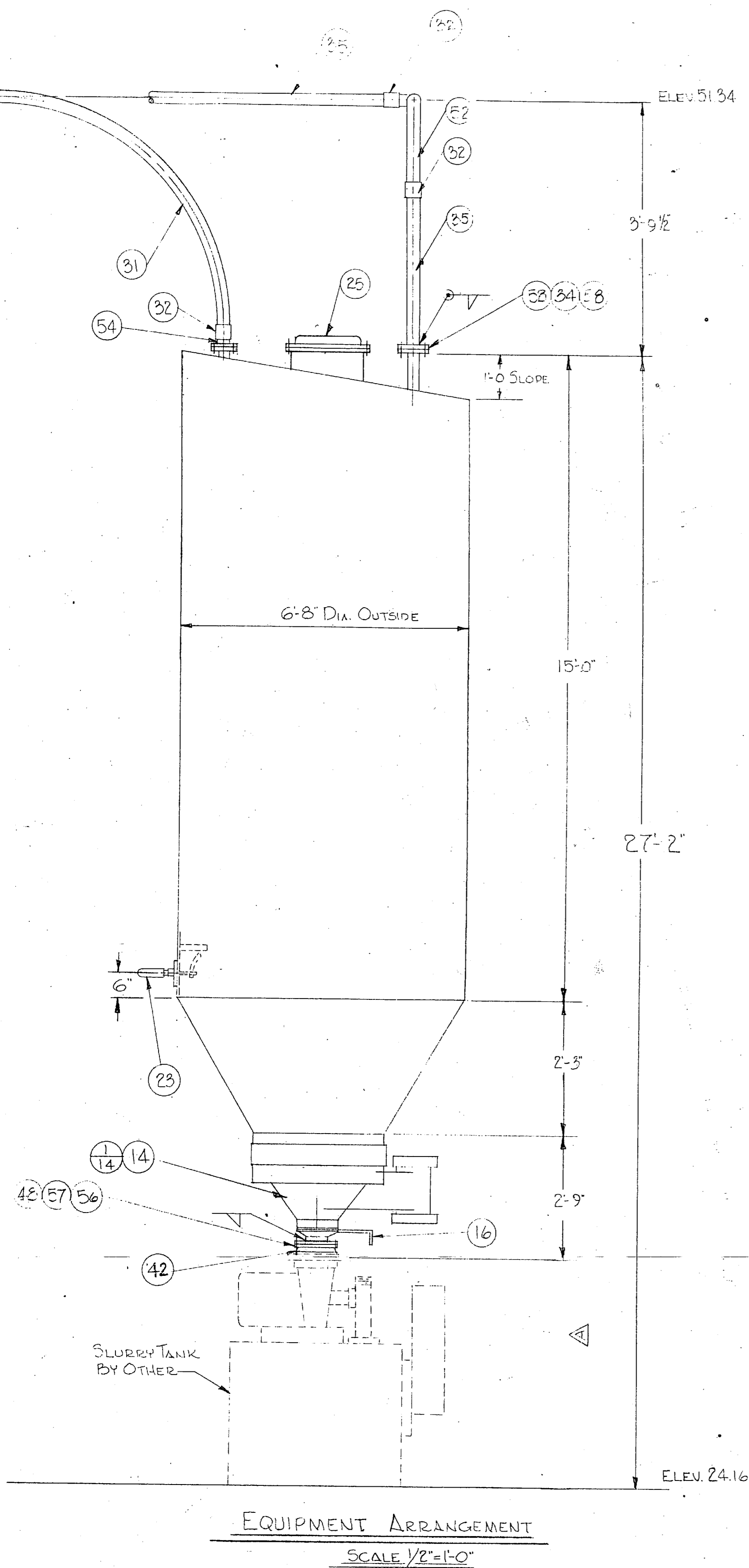


NOTE:
 1. ALL PIPING IS TO BE SUPPORTED WITHIN 2'-0" OF COUPLING SPACED 10'-0" & TO & MAX.
 2. LOCATION OF BLOWER PACKAGE SHOW ON GENERAL ARRANGEMENT.

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REV.	BY	DATE	DESCRIPTION	CH.	DATE
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 DUCON FLUID TRANSPORT DIVISION THE DUCON COMPANY INCORPORATED Subsidiary of United States Filter Corporation					
SILO STACK-UP DETAIL					
CAMP LEJUNE			NORTH CAROLINE		
SCALE: 3/4" = 1'-0"			CONTRACT NUMBER: CF3714	REV.	
DRAWN J. HARRISON		DATE: 4/1, 1980	3714-H10		
CHECKED <u>EH</u>		DATE:			
APPROVED		DATE:			





VOID See Rev B

"I hereby certify that the (EQUIPMENT) shown and marked in this submittal is that proposed to be incorporated into contract number 71-C-247. It is in compliance with the general drawings and specifications, and is suitable in the observed space, and is submitted for government approval."
Certified by WJG Date 6-25-80

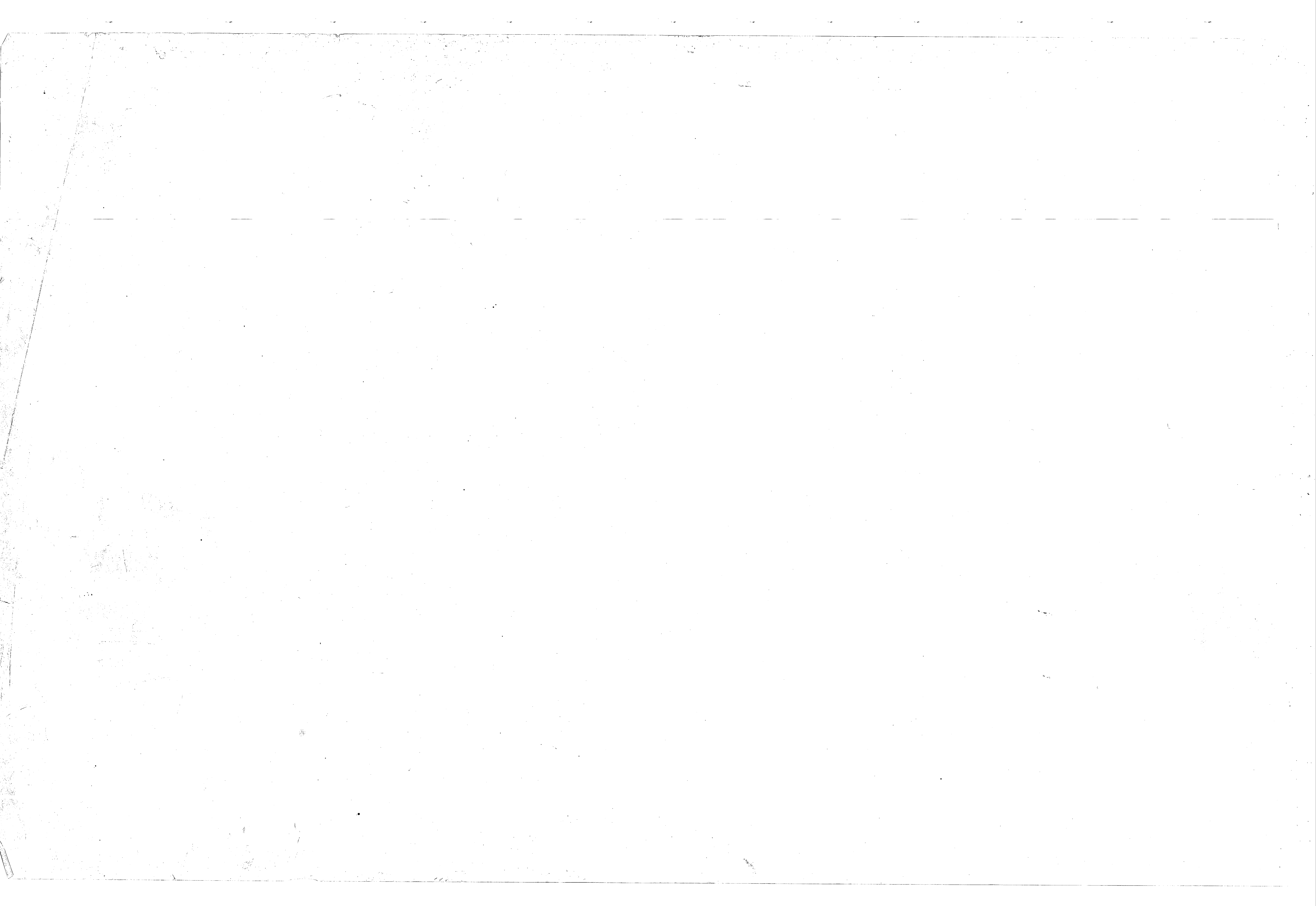
REV.	BY	DATE	DESCRIPTION	CH.	DATE

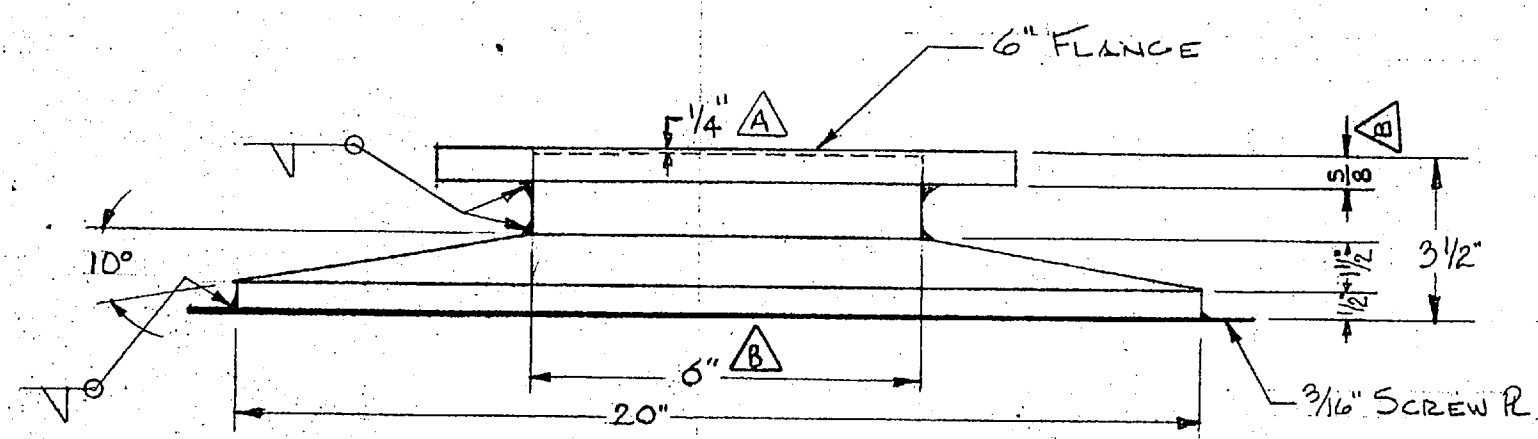
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DUCON FLUID TRANSPORT DIVISION
THE DUCON COMPANY INCORPORATED
Subsidiary of United States Filter Corporation

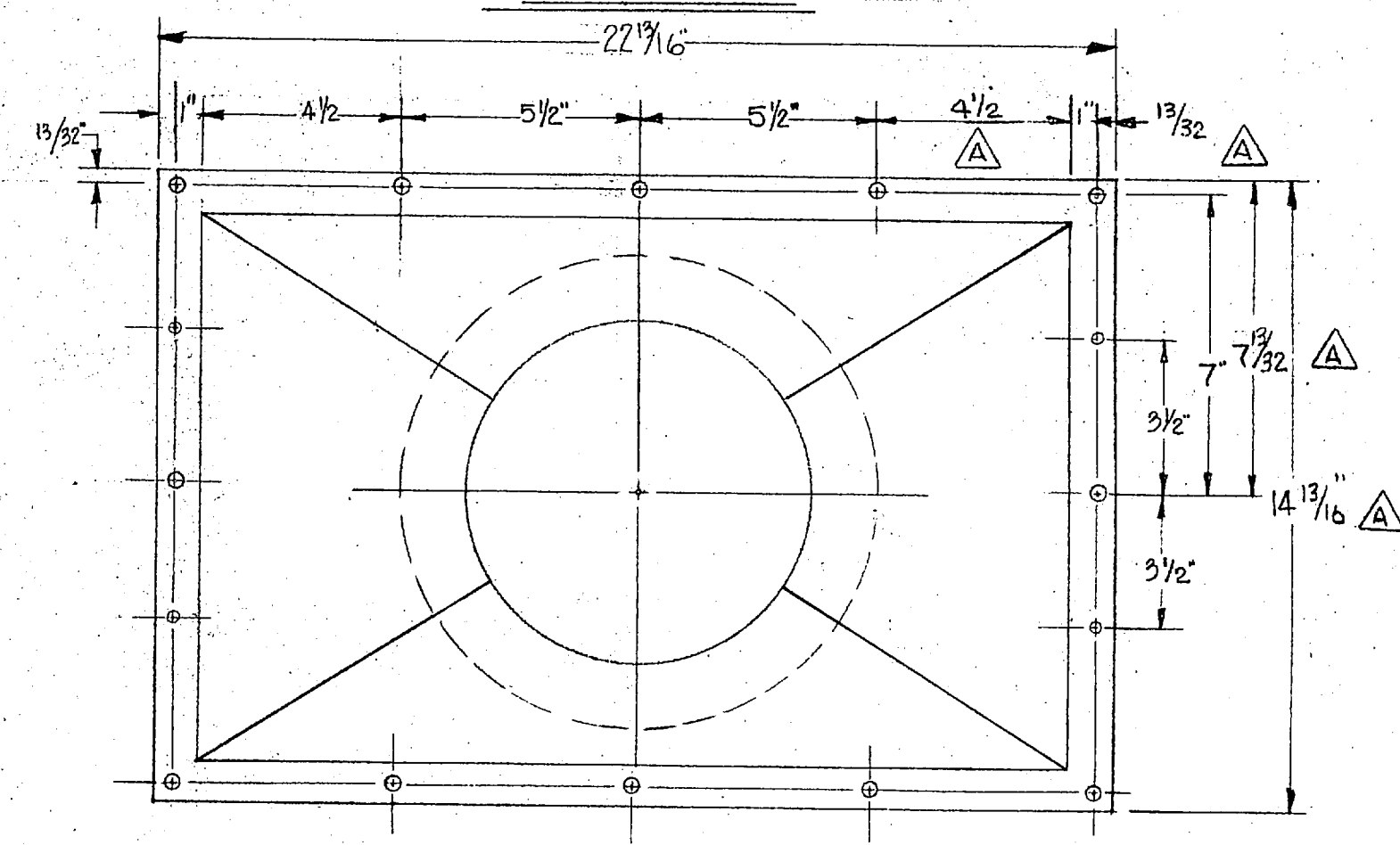
EQUIPMENT & HOOPER PIPING
GENERAL ARRANGEMENT

SCALE AS NOTED	CONTRACT NUMBER	CF8714	REV
DRAWN	DATE	3714-3	A
CHECKED	DATE		
APPROVED	DATE		





FRONT VIEW

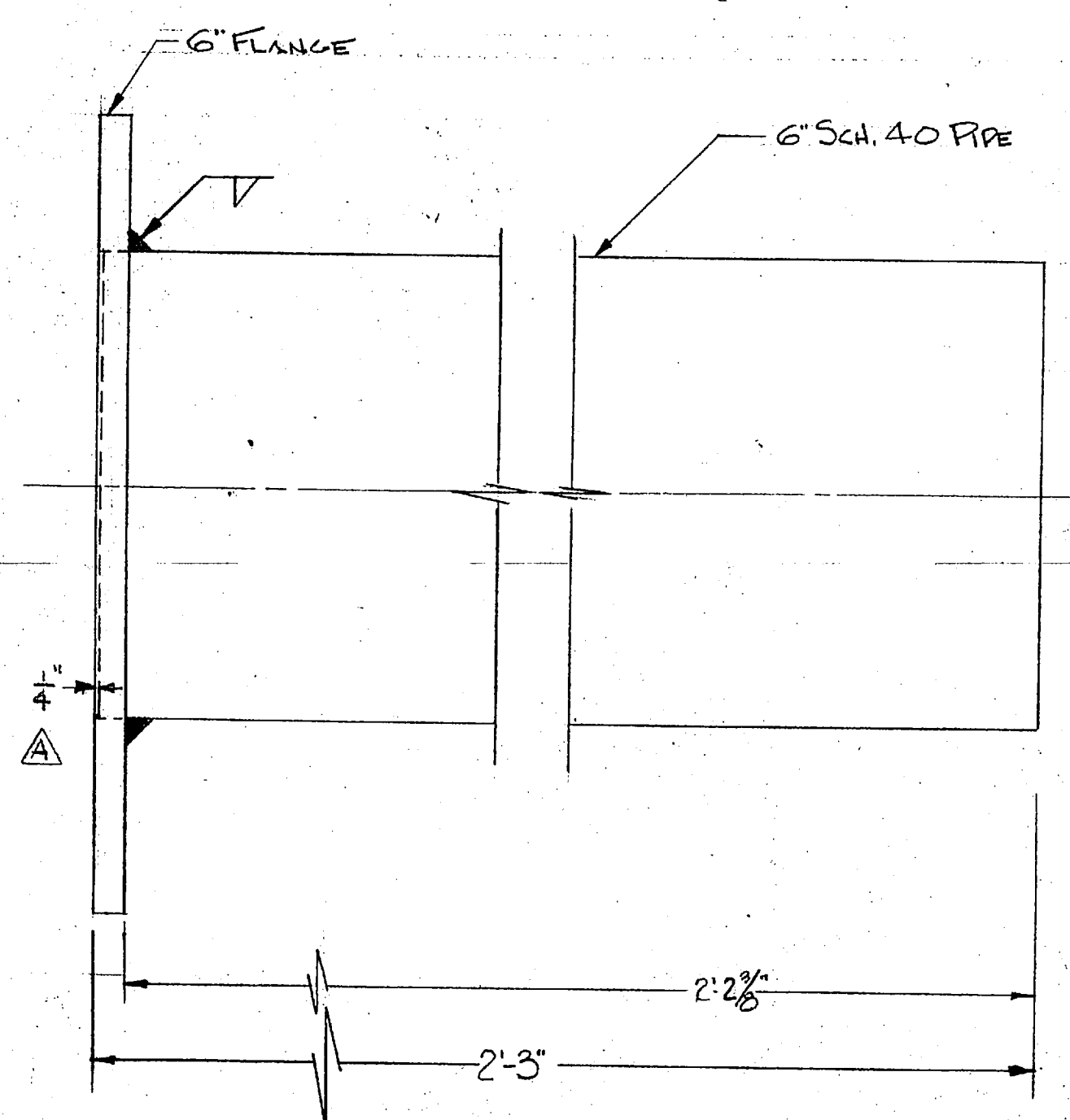


BOTTOM VIEW
SCALE 1/4" = 1"

TRANSITIONS
TAG NO # 42

Welded construction throughout except as noted. All welds to be continuous & watertight to develop full strength of material.

Welded construction throughout except as noted. All welds to be continuous & watertight to develop full strength of material.



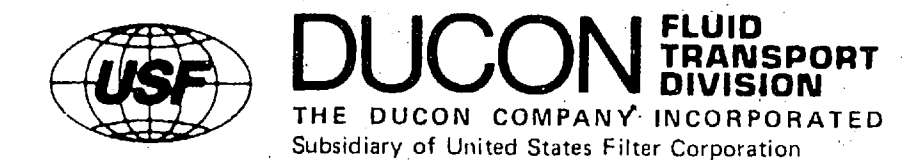
HI HAT
TAG NO # 40
SCALE 1/4" = 1"

"I hereby certify that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number 79-C-2647, is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval."

Certified by wley Date 6-25-80

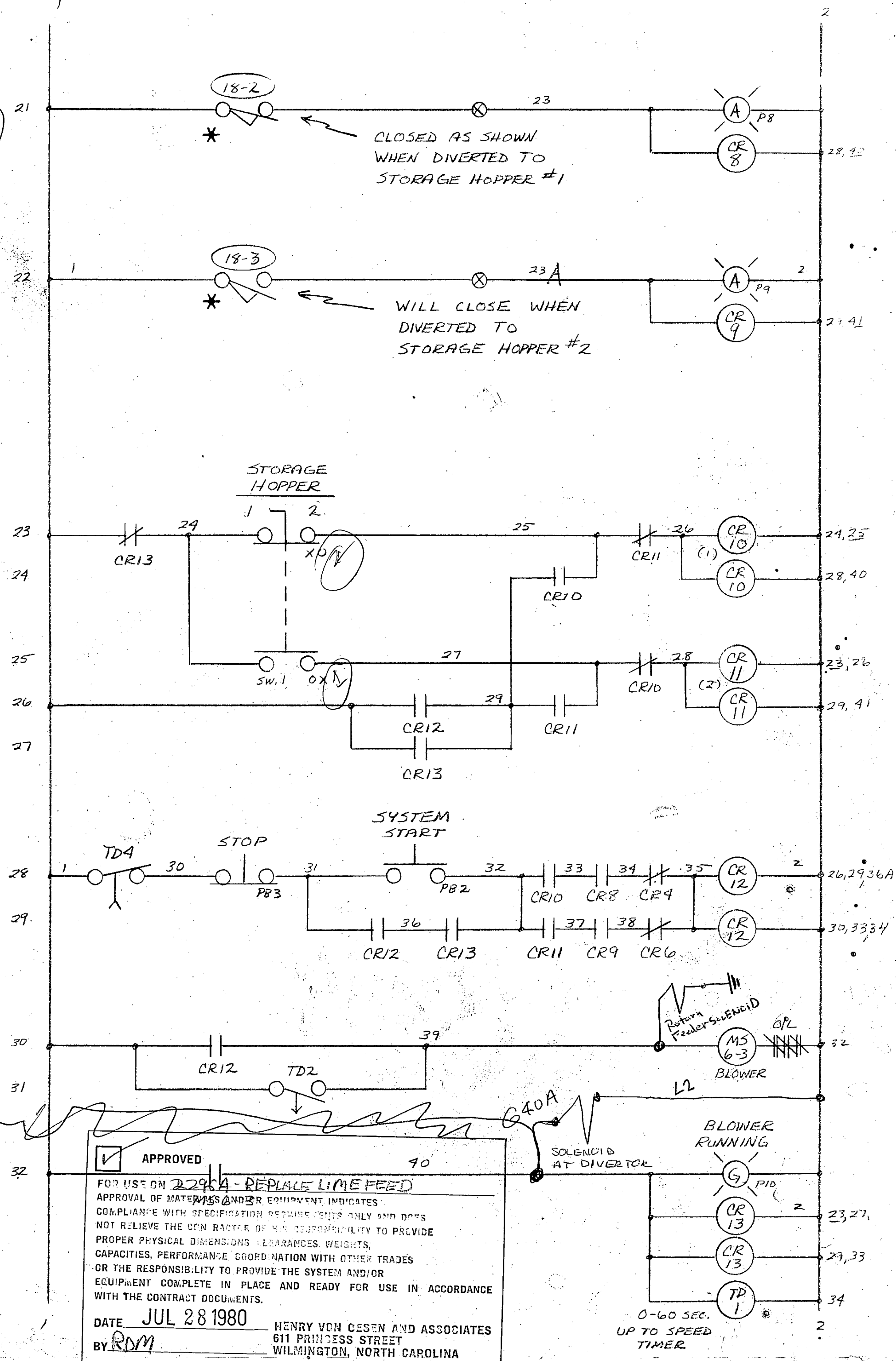
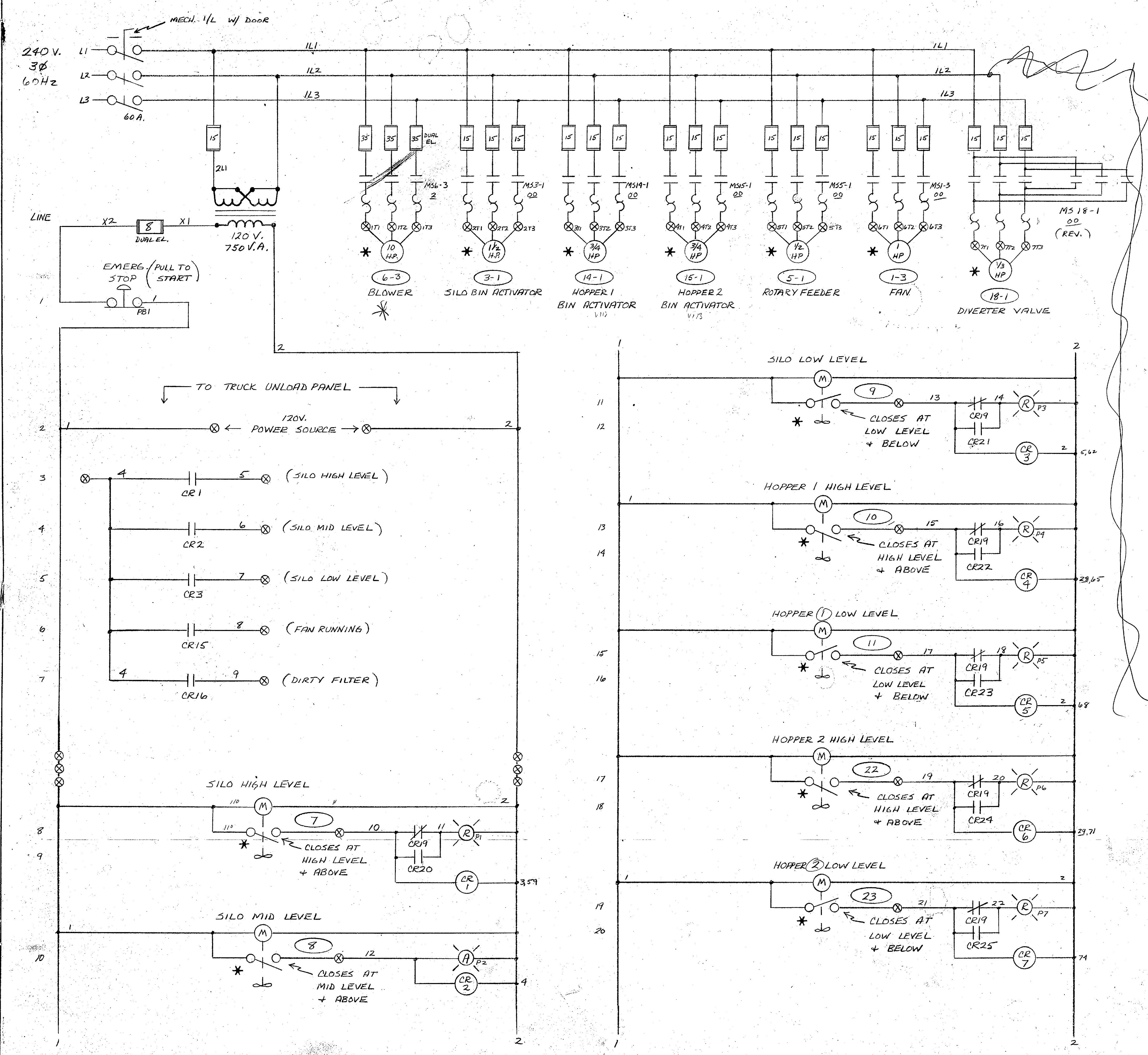
REV.	BY	DATE	DESCRIPTION	CH.	DATE
B	E	6/20	8" IS NOW 6" ADD 5/8"		
A	E	6/23	7 1/32 WAS 7 3/8, 14 13/16 WAS 7 3/8 4 1/2" WAS 5 1/2" ADDED 1" DIM. ADD 1/4"		

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FABRICATED PARTS

SCALE: AS NOTED		CONTRACT NUMBER: CF 3714		REV.
DRAWN: J. HARRISON	DATE: MAY 6, 1980	3714-11		B
CHECKED: [Signature]	DATE:			
APPROVED:	DATE:			



REV.	BY	DATE	DESCRIPTION	CH.	DATE
1					

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DUCON FLUID TRANSPORT DIVISION
THE DUCON COMPANY INCORPORATED
Subsidiary of United States Filter Corporation

CONTROL PANEL SCHEMATIC (SHEET 1 OF 3) PANEL 21

MARINE BASE CAMP LEJEUNE, N.C.

SCALE: _____ CONTRACT NUMBER: _____

DRAWN: Hrm DATE: 4/6/80

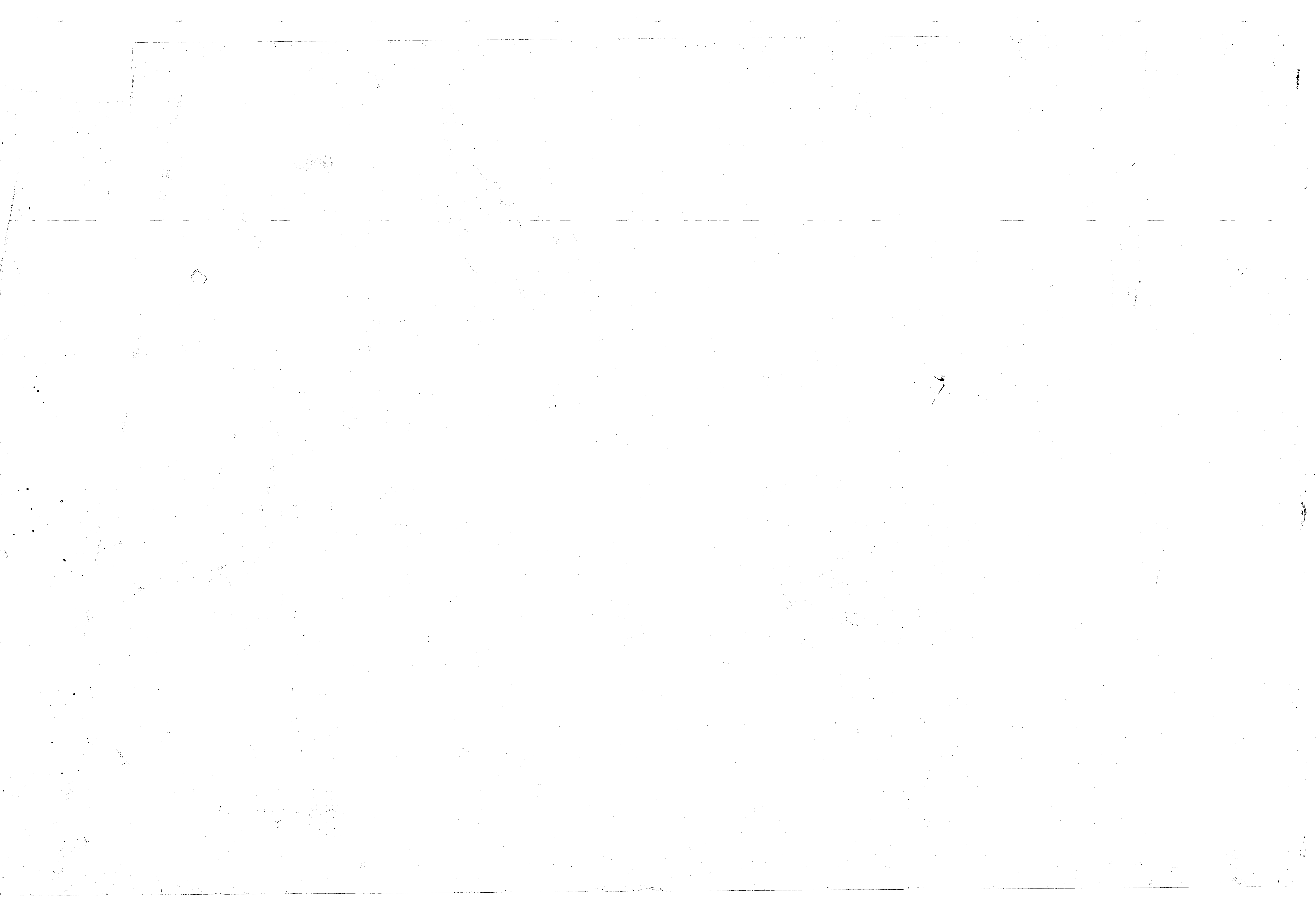
CHECKED: [Signature] DATE: 5/10

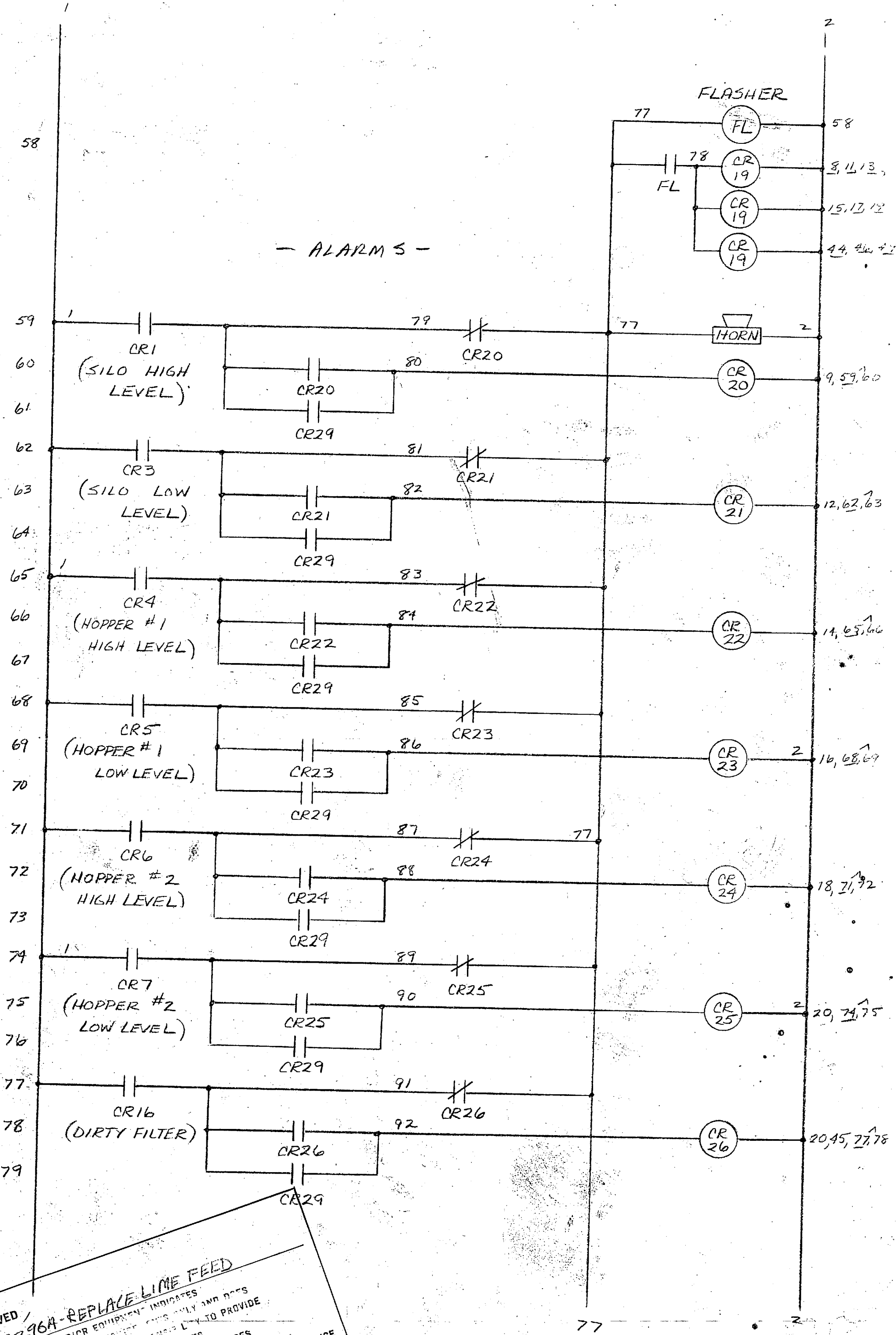
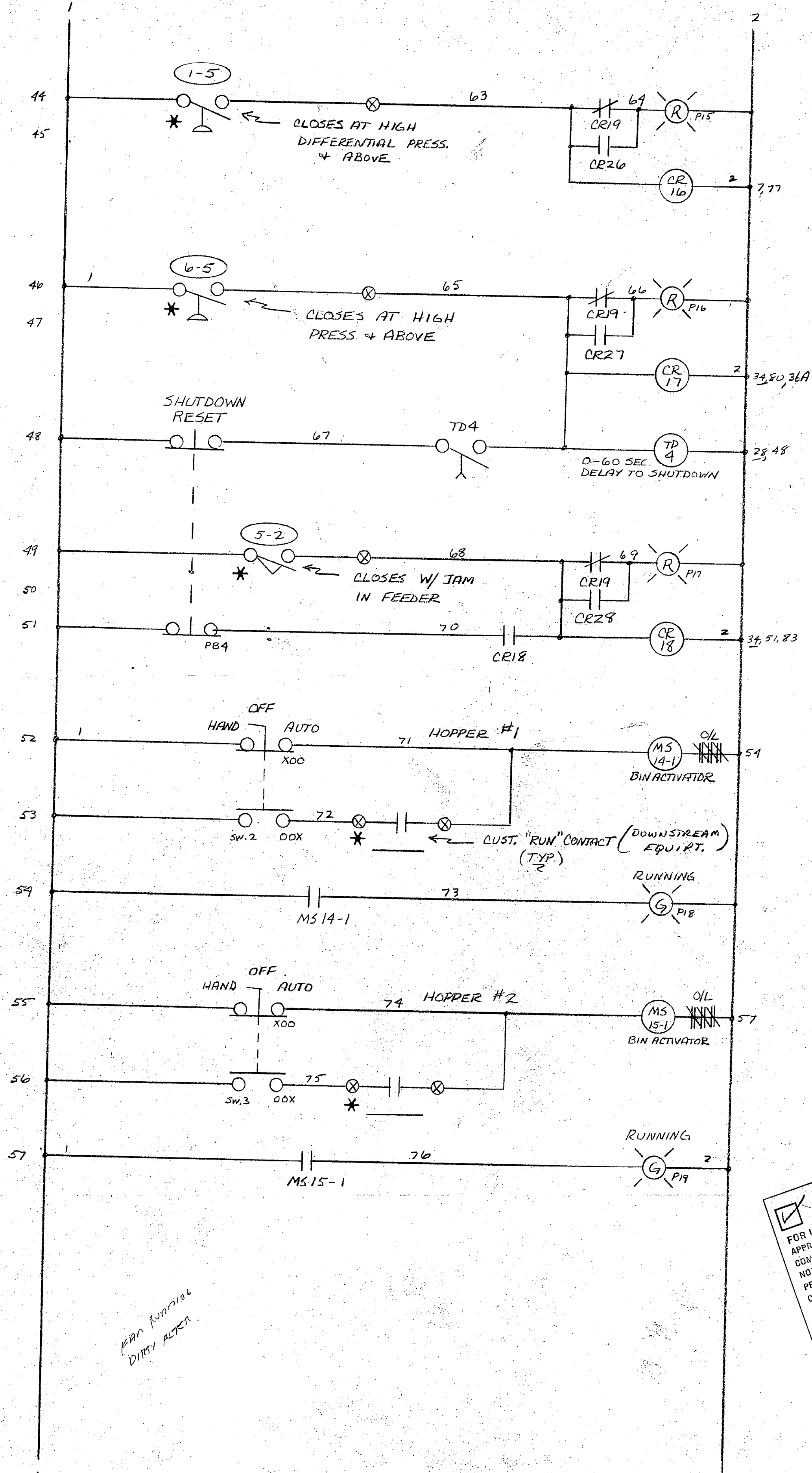
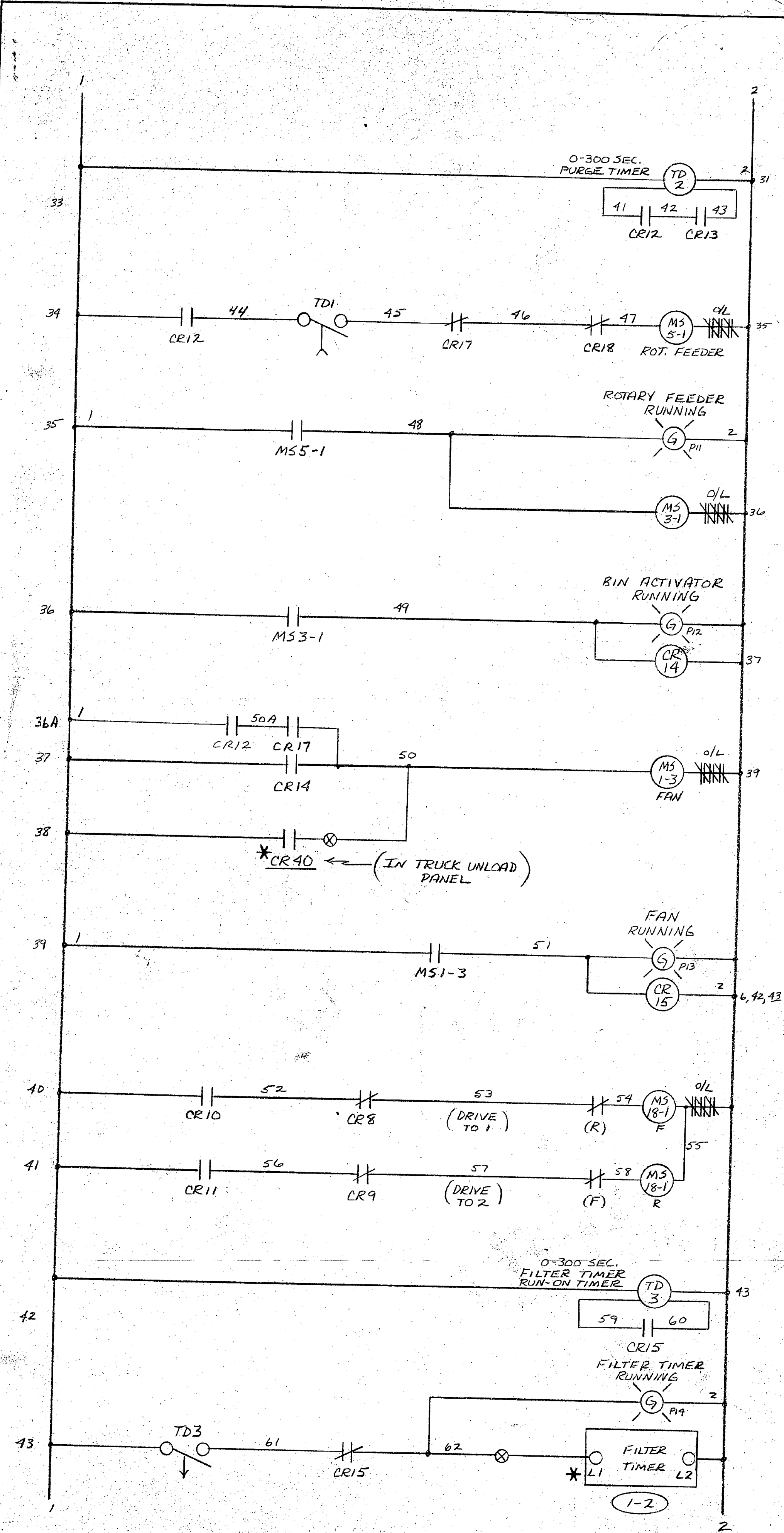
APPROVED: [Signature] DATE: 1

3714-20

"It is hereby certified that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number 19-C-2447. It is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval."

Certified by [Signature] Date 6-25-80





APPROVED
 FOR USE ON 2296A-REPLACE LINE FEED
 APPROVAL OF MATERIALS AND/OR EQUIPMENT INDICATES CONFORMANCE WITH SPECIFICATIONS AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE PROPER PHYSICAL DIMENSIONS, COORDINATION WITH OTHER TRADES OR THE RESPONSIBILITY TO PLACE AND READY FOR USE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 DATE JUL 28 1980
 BY RDM
 HENRY VON CESH AND ASSOCIATES
 611 PRINCESS STREET
 WILMINGTON, NORTH CAROLINA

Certified by wly Date 6-25-80

REV.	BY	DATE	DESCRIPTION	CH.	DATE
1					

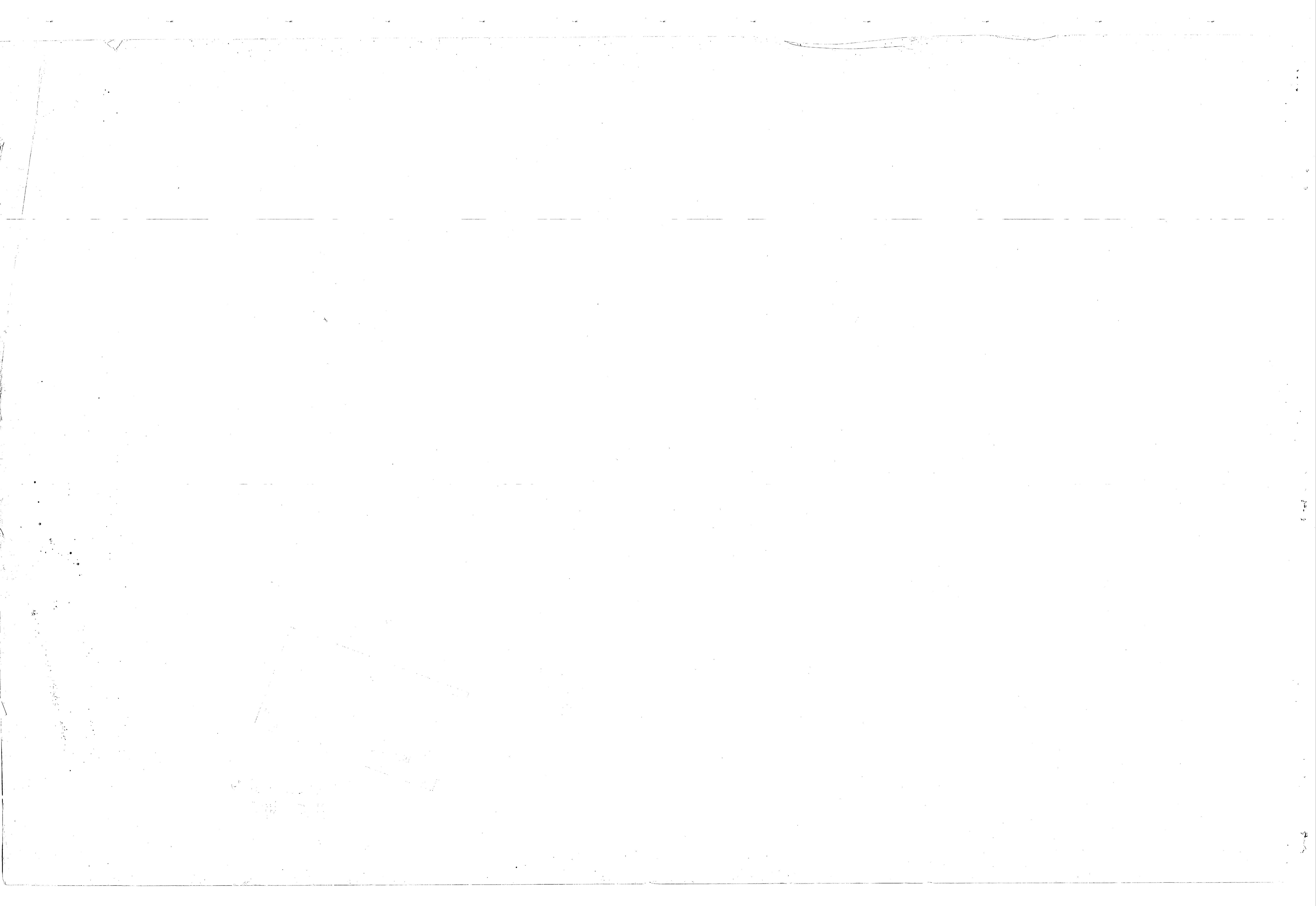
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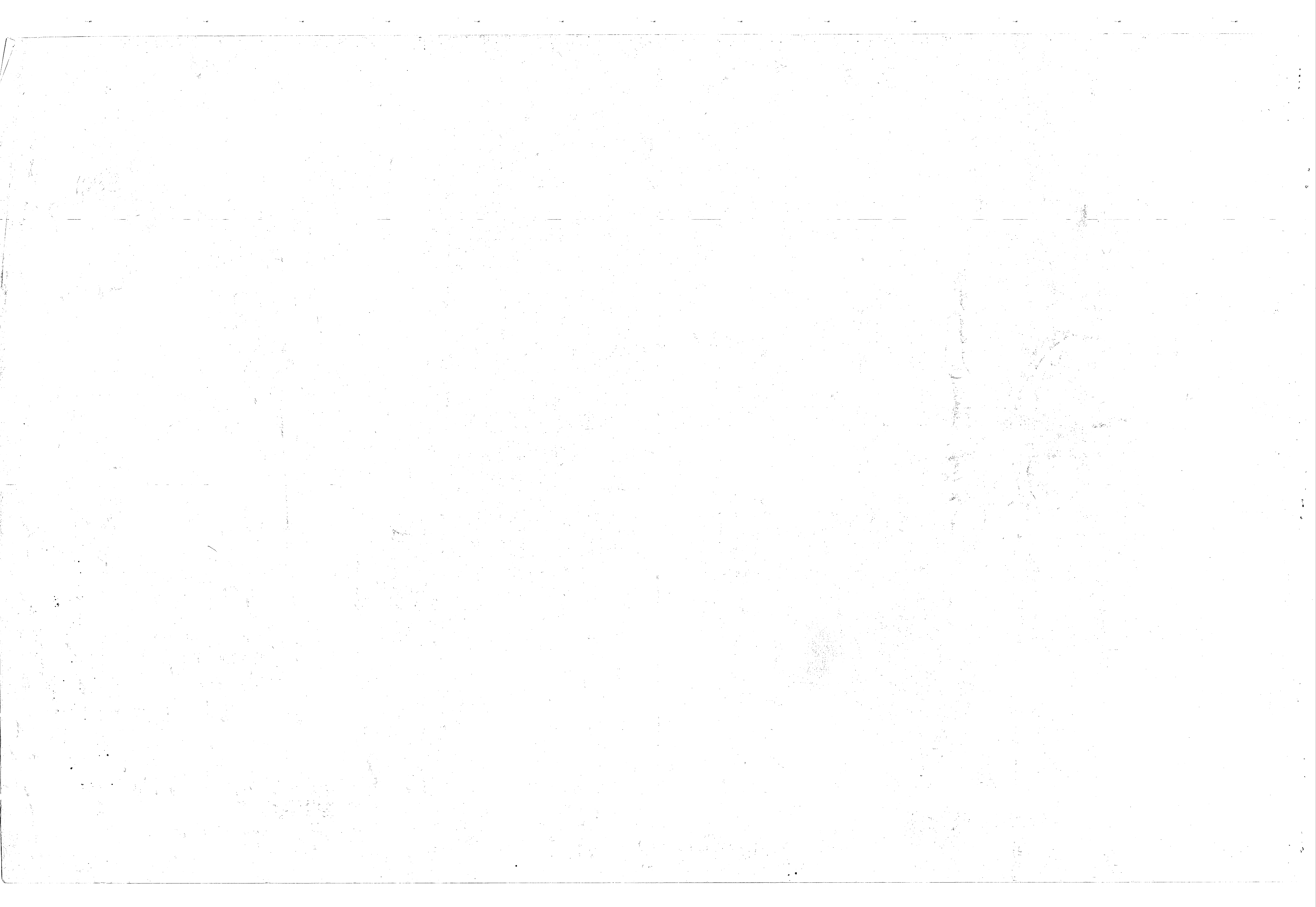
USF DUCON FLUID TRANSPORT DIVISION
 THE DUCON COMPANY INCORPORATED
 Subsidiary of United States Filter Corporation

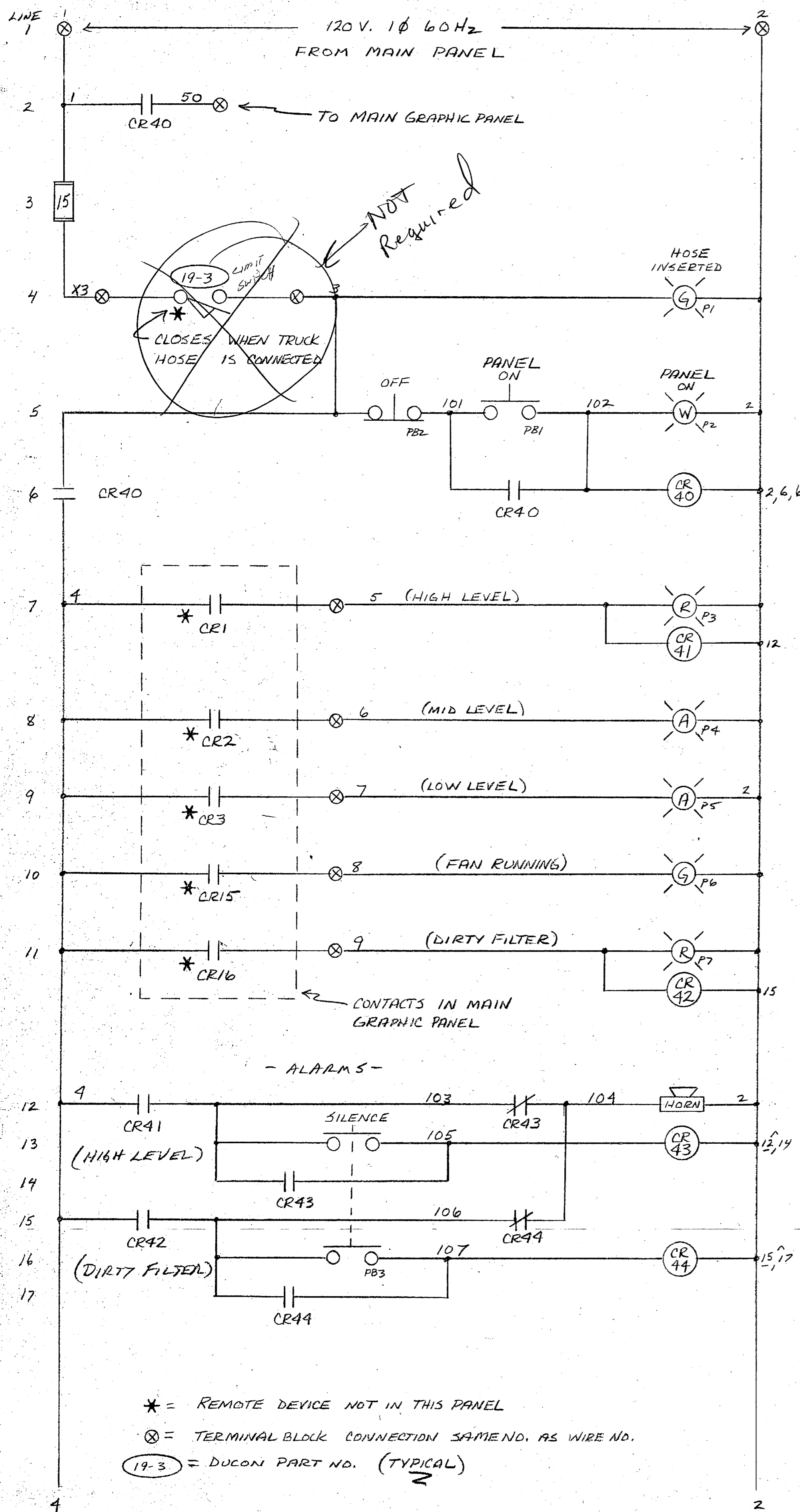
CONTROL PANEL SCHEMATIC
 (SHEET 2 OF 3) PANEL
 (21)

MARINE BASE CAMP LEVEUNE, NC.

SCALE: <i>1/4" = 1"</i>	CONTRACT NUMBER: <i>3714-21</i>	REV.
DRAWN: <i>HGM</i>	DATE: <i>6/6/80</i>	
CHECKED: <i>LB</i>	DATE: <i>6/8/80</i>	
APPROVED:	DATE:	







* = REMOTE DEVICE NOT IN THIS PANEL
 ⊗ = TERMINAL BLOCK CONNECTION SAME NO. AS WIRE NO.
 (19-3) = DUCON PART NO. (TYPICAL)

"It is hereby certified that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number 79-C-2647, is in compliance with the contract drawings and specifications, can be installed in the allocated space, and is submitted for government approval."

Certified by Wiley Date 6-25-80

APPROVED
 FOR USE IN 2296A-REPLACE LIME FEED
 APPROVAL OF MATERIALS AND/OR EQUIPMENT INDICATES COMPLIANCE WITH SPECIFICATION REQUIREMENTS ONLY AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE PROPER PHYSICAL DIMENSIONS, CLEARANCES, WEIGHTS, CAPACITIES, PERFORMANCE, COORDINATION WITH OTHER TRADES OR THE RESPONSIBILITY TO PROVIDE THE SYSTEM AND/OR EQUIPMENT COMPLETE IN PLACE AND READY FOR USE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 DATE JUL 28 1980
 BY RDM HENRY VON OESSEN AND ASSOCIATES
 611 PRINCESS STREET
 WILMINGTON, NORTH CAROLINA

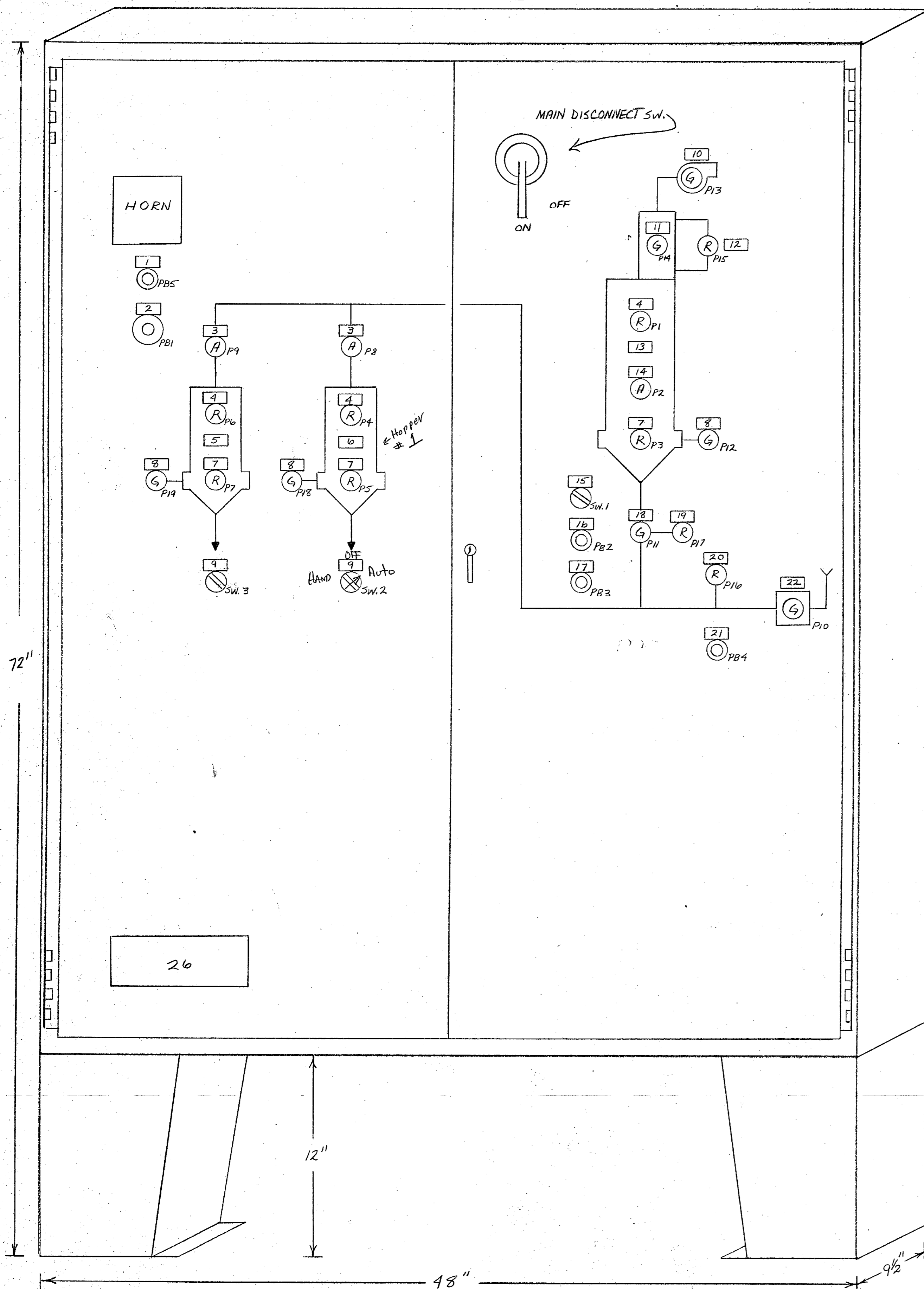
REV.	BY	DATE	DESCRIPTION	CH.	DATE
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			DUCON FLUID TRANSPORT DIVISION		
<p align="center">TRUCK UNLOAD PANEL SCHEMATIC</p> <p align="center">PANEL 20</p> <p>MARINE BASE CAMP LEJEUNE, NC.</p>					
SCALE:			CONTRACT NUMBER:		
DRAWN:	<u>HDM</u>	DATE:	<u>6/80</u>		
CHECKED:	<u>LB</u>	DATE:	<u>6-9-80</u>		
APPROVED:			DATE:		
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PANEL (21)



NEMA 12 ENCLOSURE (HOFFMAN #A604808)
ASA 61 GRAY FINISH

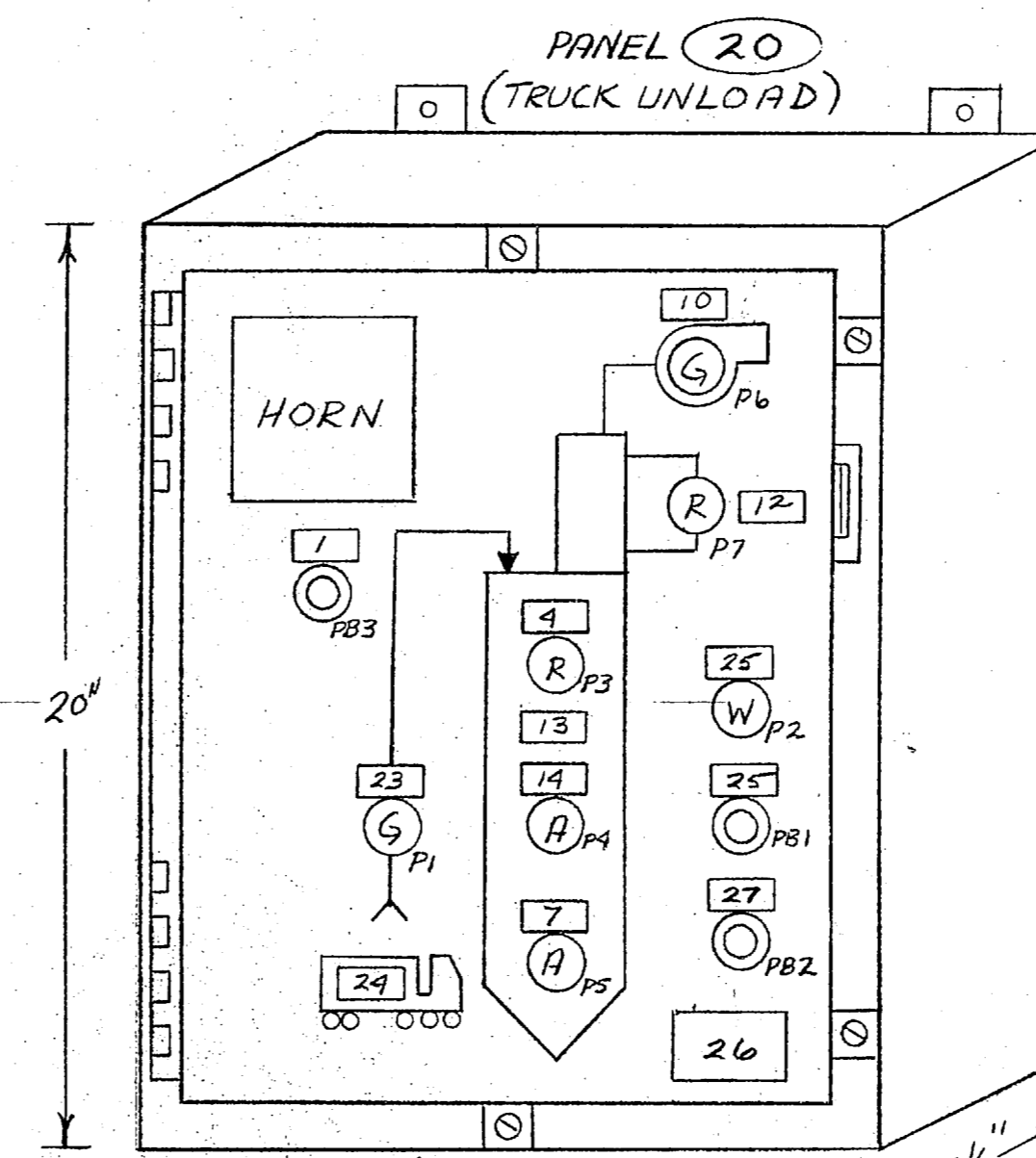
ENGRAVED NAMEPLATES:

1. SILENCE	10. FAN RUNNING	19. FEEDER TRUCK
2. EMERG. STOP (PULL TO START)	11. FILTER TIMER RUNNING	20. HIGH PRESSURE
3. VALVE OPEN	12. DIRTY FILTER	21. SHUTDOWN RESET
4. HIGH LEVEL	13. SILO	22. BLOWER RUNNING
5. STORAGE HOPPER #2	14. MID LEVEL	23. HOSE INSERTED
6. STORAGE HOPPER #1	15. STORAGE HOPPER 1 - 2	24. TRUCK
7. LOW LEVEL	16. SYSTEM START	25. PANEL ON
8. BIN ACTIVATOR RUNNING	17. STOP	26. DUCON LOGO.
9. DISCHARGE OFF HAND AUTO	18. ROTARY FEELER RUNNING	27. OFF

COMPONENTS:

- PILOT LIGHTS = GOULD CORP. INCOND. FULL VOLTAGE
- PUSH BUTTONS = " " "
- SELECTOR SW'S. = " " "
- DISCONNECT = I.T.E. DIV. GOULD CORP. 60A.
- STARTERS = " " " "
- RELAYS = COMAR CORP., 3PDT
- TERMINAL BLOCKS = BUCHANAN, TRACK MTD.
- TIME DELAYS = XL PRODUCTS CO.
- WIRE = #14 A.W.G. MTW., STRANDED

NOTE:
(ALL LAMACOID NAME PLATES)



NEMA 4 ENCLOSURE (HOFFMAN #A20H16BLP)
ASA 61 GRAY FINISH

APPROVED
FOR USE ON 2246A-REPLACE LINE FEED
APPROVAL OF MATERIALS AND/OR EQUIPMENT INDICATES COMPLIANCE WITH SPECIFICATIONS FOR USE ONLY AND DOES NOT RELIEVE THE OPERATOR OF HIS RESPONSIBILITY TO PROVIDE PROPER PHYSICAL DIMENSIONS, CLEARANCES, WEIGHTS, CAPACITIES, PERFORMANCE, COORDINATION WITH OTHER TRADES OR THE RESPONSIBILITY TO PROVIDE THE SYSTEM AND/OR EQUIPMENT COMPLETE IN PLACE AND READY FOR USE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
DATE JUL 28 1980 HENRY VON OSTEN AND ASSOCIATES
BY RDM 811 PARKWOOD STREET WASHINGTON, NORTH CAROLINA

"It is hereby certified that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number 73-C-2647. It is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval."

Certified by July Date 6-25-80

REV.	BY	DATE	DESCRIPTION	CH.	DATE
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			DUCON FLUID TRANSPORT DIVISION THE DUCON COMPANY INCORPORATED Subsidiary of United States Filter Corporation		
CONTROL PANELS LAYOUT PANELS (20) + (21)					
MARINE BASE			CAMP LETWELL, A.C.		
SCALE:	CONTRACT NUMBER:		REV.		
DRAWN: <u>AFM</u>	DATE: <u>6/6/80</u>	3714-24			
CHECKED: <u>AFM</u>	DATE: <u>6/10/80</u>				
APPROVED:	DATE:				

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OPERATION

MAIN PANEL: (21)

1. THE MAIN DISCONNECT IS NORMALLY KEPT IN THE ON POSITION UNLESS THE ENCLOSURE DOOR MUST BE OPENED FOR MAINTENANCE.
2. THE PANEL IS TURNED ON AND OFF BY USING PUSHBUTTON PBI. NORMALLY IT IS ON (AND MUST BE ON FOR TRUCK UNLOAD PANEL TO FUNCTION).
3. THE VALVE POSITIONS ARE INDICATED AS WELL AS ANY LEVEL CONDITIONS WHICH MAY BE ACTUATED.
 - DIVERTER
4. OPERATOR SELECTS DESTINATION STORAGE HOPPER USING SELECTOR SWITCH, SW.1 (NOTE THAT ONCE THE SYSTEM IS RUNNING, REPOSITIONING THIS SWITCH WILL HAVE NO EFFECT UNTIL SYSTEM IS TOTALLY STOPPED.)
5. OPERATOR DEPRESSES SYSTEM START PUSHBUTTON PB2:
 - A. NOTHING HAPPENS IF DIVERTER VALVE (18) IS NOT PROVEN IN THE CORRECT POSITION (AS SELECTED BY SW.1.)
 - B. NOTHING HAPPENS IF SELECTED STORAGE HOPPER IS AT HIGH LEVEL
 - C. ASSUME ABOVE ARE O.K.
 - D. BLOWER STARTS AND IS PROVEN RUNNING
 - E. AN UP-TO-SPEED DELAY ENSUES (TD1)
 - F. ROTARY FEEDER STARTS AND IS PROVEN RUNNING.
 - G. SILO BIN ACTIVATOR STARTS AND IS PROVEN RUNNING.
 - H. SILO FAN STARTS (MAY ALREADY BE RUNNING IF A TRUCK IS UNLOADING TO SILO.)
 - I. PRODUCT IS CONVEYING
6. THE SYSTEM STOPS NORMALLY AS A RESULT OF DEPRESSING STOP BUTTON PB3, OR THE DESTINATION STORAGE HOPPER HIGH LEVEL ACTUATES:
 - A. ROTARY FEEDER STOPS
 - B. BIN ACTIVATOR STOPS
 - C. FAN STOPS
 - D. FILTER TIMER IS ENERGIZED FOR A TIMED PERIOD (TD3) (UNLESS TRUCK UNLOAD PANEL IS CALLING FOR FAN TO RUN.)
 - E. A PURGE TIME ENSUES (TD2)
 - F. BLOWER STOPS
 - G. SYSTEM AWAITS NEW SELECTION AND RESTARTING BEGINNING AT ITEM #4.
7. WHILE CONVEYING, IF EXCESSIVE PRESSURE DEVELOPS, AN ALARM OCCURS AND THE ROTARY FEEDER AND BIN ACTIVATOR STOP. IF PRESSURE DROPS, CONVEYING WILL RESUME. IF IT DOES NOT DROP, TIME OUT OF TIMER TD4 WILL CAUSE SYSTEM SHUTDOWN. (MUST BE RESET BY DEPRESSING PB4.)
8. WHILE CONVEYING, IF THE ROTARY FEEDER JAMS, AN ALARM WILL OCCUR AND THE ROTARY FEEDER WILL STOP, TOGETHER WITH THE BIN ACTIVATOR + FAN. (MUST BE RESET BY DEPRESSING PB4 AFTER FINDING DIFFICULTY)
9. THE DISCHARGE FROM THE STORAGE HOPPERS (BY BIN ACTIVATORS) IS CONTROLLED BY SELECTOR SWITCHES SW.2 AND SW.3 WHICH ALLOW FOR HAND OR AUTO OPERATION AS WELL AS OFF.
10. SEVEN ALARMS ARE PROVIDED AS DETAILED IN THE SCHEMATIC. EACH ALARM PILOT LIGHT FLASHES RED UNTIL THE HORN IS SILENCED, THEN STEADY-ON UNTIL CONDITION IS CLEARED OR RESET.

TRUCK UNLOAD PANEL: (20)

11. MAIN PANEL MUST BE ON.
12. OPERATOR INSERTS HOSE INTO FILL STATION. PANEL PILOT LIGHT P1 COMES ON.
13. OPERATOR DEPRESSES PUSH BUTTON PB1:
 - A. PILOT LIGHT P2 COMES ON
 - B. FAN AT SILO STARTS
 - C. LEVEL CONDITIONS ARE INDICATED
14. OPERATOR RUNS TRUCK BLOWER TO UNLOAD TRUCK
15. ALARM OCCURS AT HIGH LEVEL, OPERATOR SILENCES HORN.
16. OPERATOR PURGES LINE AND STOPS TRUCK BLOWER.
17. OPERATOR TURNS OFF PANEL BY DEPRESSING PB2, STOPPING FAN. THE FILTER TIMER NOW STARTS AND RUNS FOR A TIME DELAY - (TD 3 IN MAIN PANEL) - UNLESS FAN STILL RUNS BECAUSE MAIN PANEL CONVEYING SYSTEM IS STILL RUNNING.
18. AN ALARM IS ALSO PROVIDED TO SIGNAL A DIRTY FILTER.

APPROVED


FOR USE ON 22-964-REPLACE LIME FEED

APPROVAL OF MATERIALS AND/OR EQUIPMENT INDICATES COMPLIANCE WITH SPECIFICATION REQUIREMENTS ONLY AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE PROPER PHYSICAL DIMENSIONS, CLEARANCES, WEIGHTS, CAPACITIES, PERFORMANCE, COORDINATION WITH OTHER TRADES OR THE RESPONSIBILITY TO PROVIDE THE SYSTEM AND/OR EQUIPMENT COMPLETE IN PLACE AND READY FOR USE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DATE JUL 28 1980 HENRY VON DESEN AND ASSOCIATES
 BY RDM 611 PINECRESS STREET
 WILMINGTON, NORTH CAROLINA

"It is hereby certified that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number 79-C-2647, is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval."

Certified by Wly Date 6-25-80

REV.	BY	DATE	DESCRIPTION	CH.	DATE
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 DUCON FLUID TRANSPORT DIVISION THE DUCON COMPANY INCORPORATED Subsidiary of United States Filter Corporation					
DESCRIPTION OF OPERATION PANELS (20) + (21)					
SCALE: <u>1" = 1'-0"</u>			CONTRACT NUMBER: <u>3714-25</u>		
DRAWN: <u>Allen</u>		DATE: <u>6/18/80</u>		REV.:	
CHECKED:		DATE:		3714-25	
APPROVED:		DATE:			

