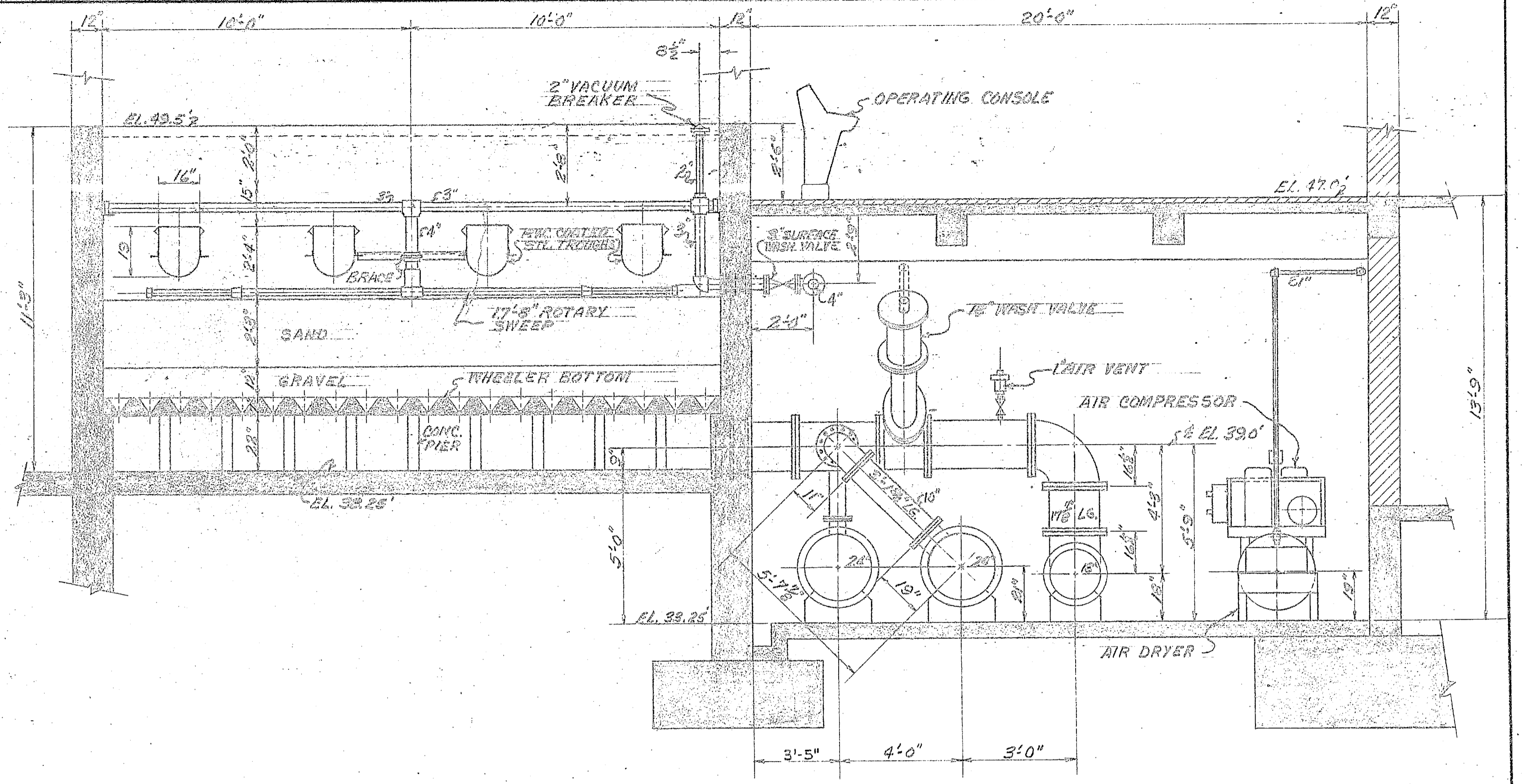
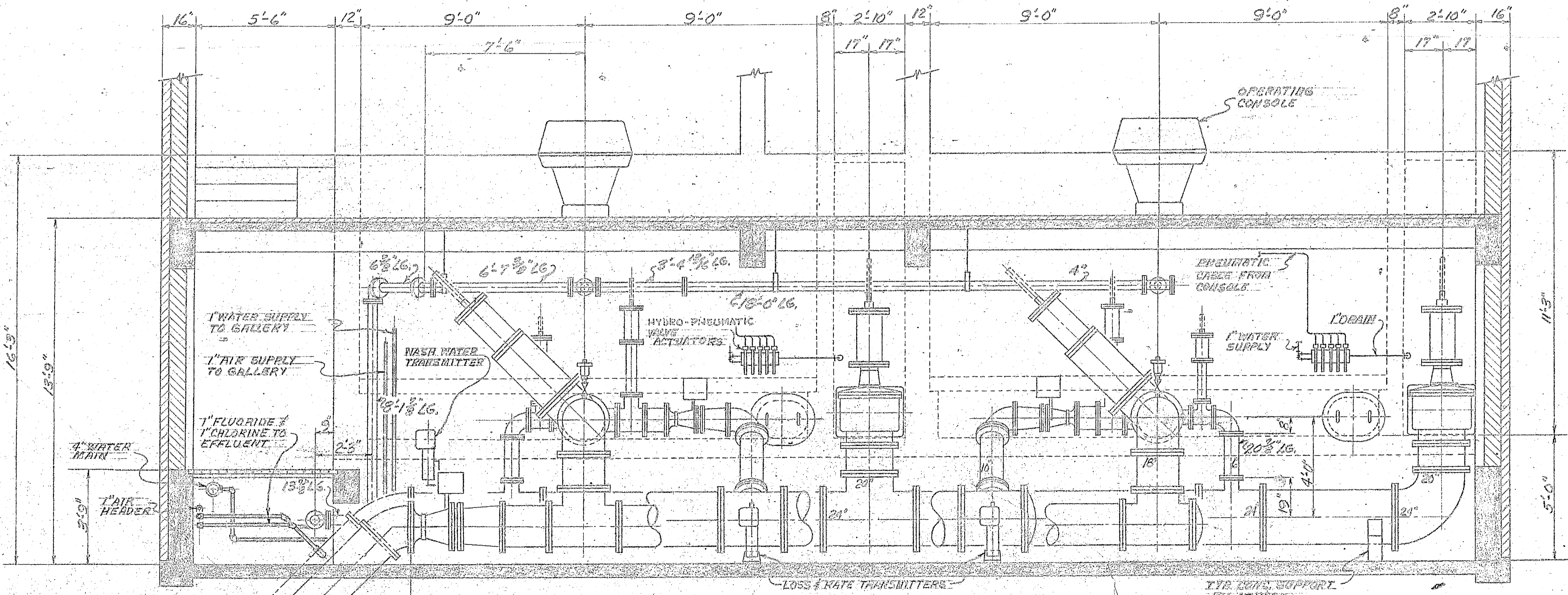


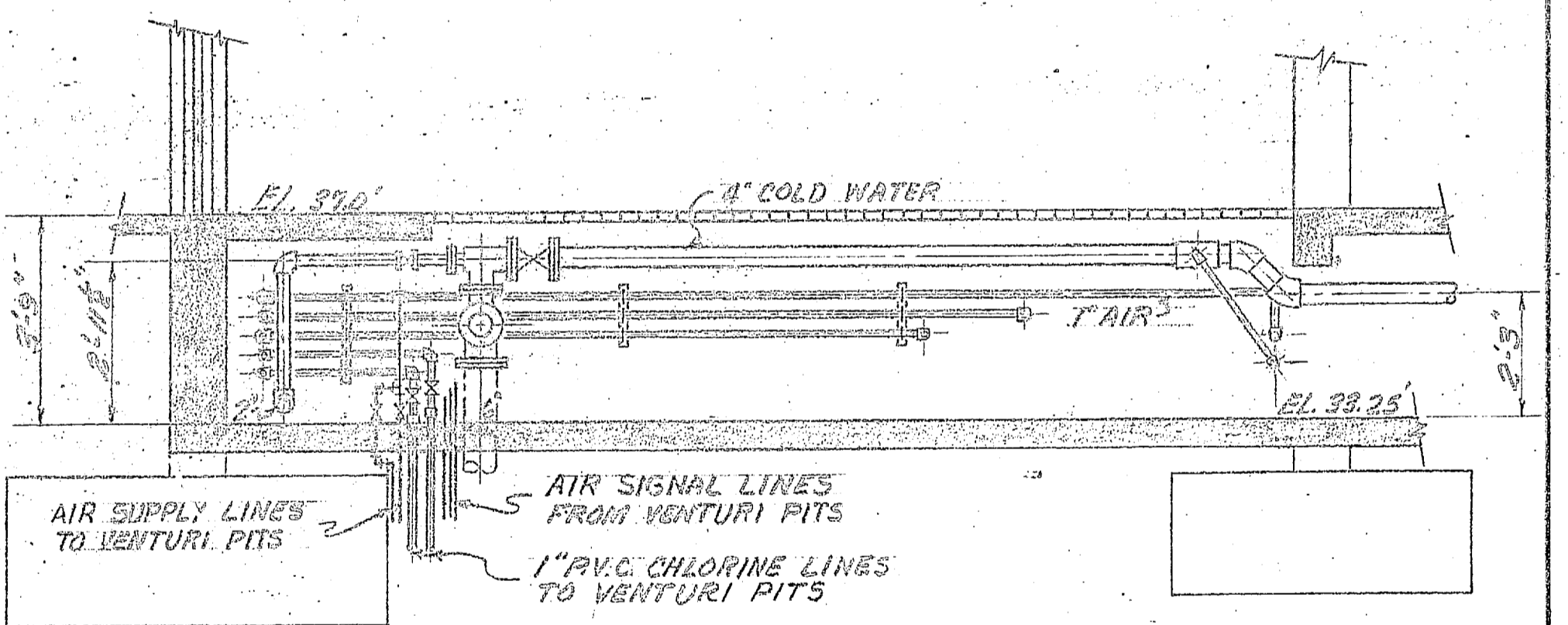
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

SECTIONS ON THIS SHEET ARE TAKEN FROM PLAN ON DWG. 6249-2.

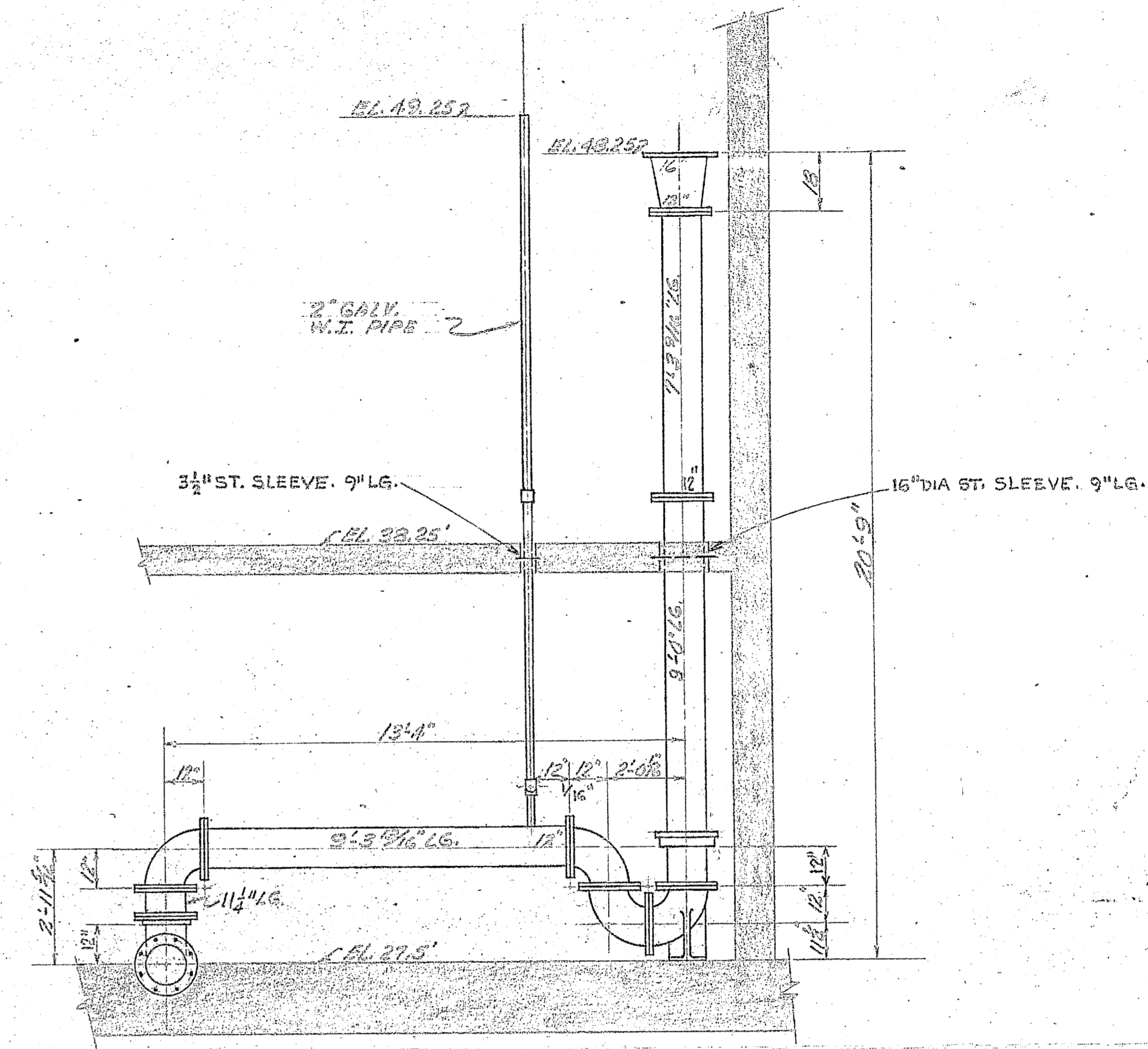
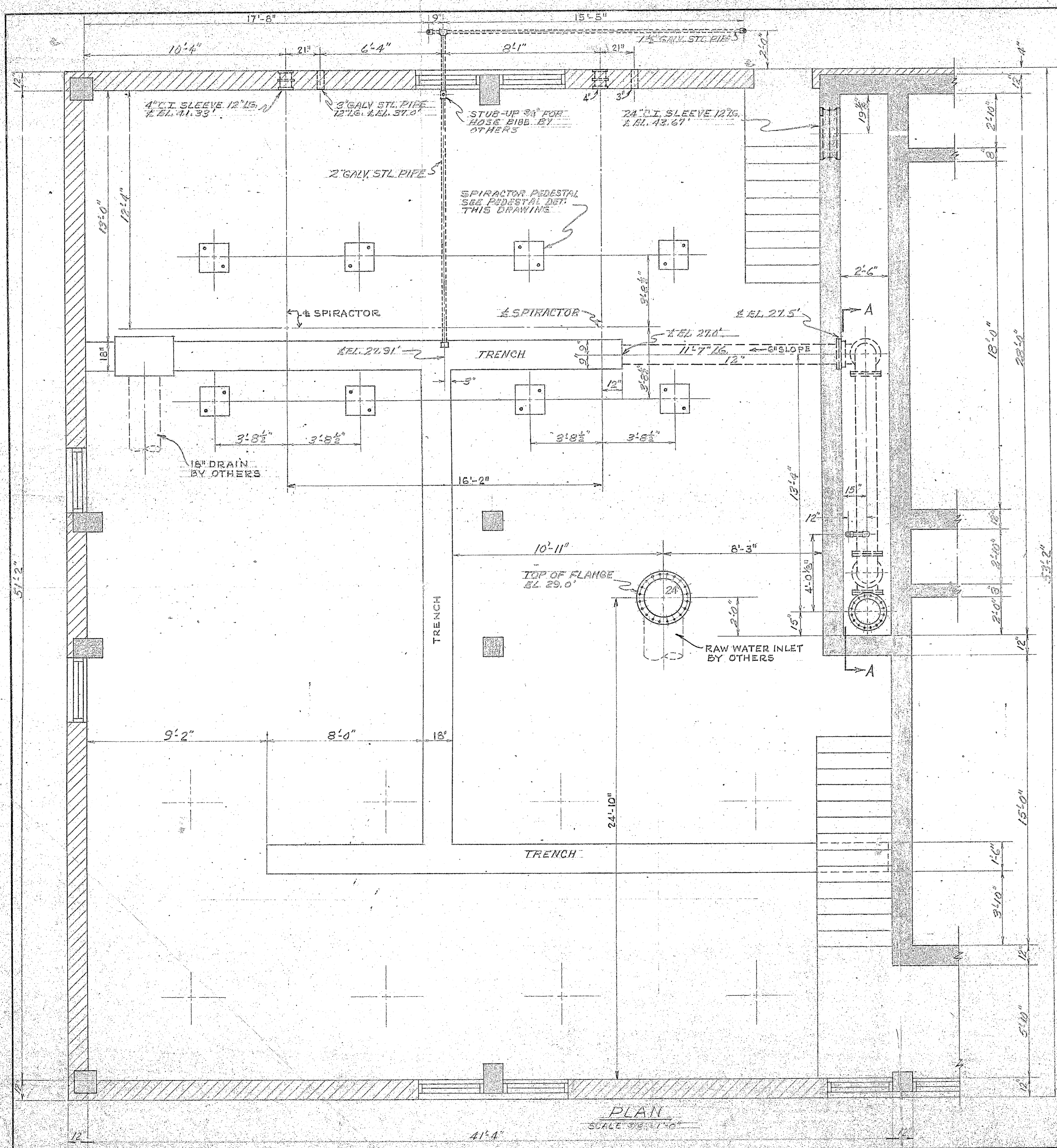
Date: 1/8/71
 APPROVED
 Subject To Meeting Of
 Job Plans & Specifications
 By: [Signature]
 Quality Control Representative

2	REMOVED FILTER LEVEL PNEUMATIC SWITCH	5-11-71	R.W.
1	REVISED PIPING & SLUICE G. ADDED FIBER SWITCH	1-19-71	R.W.
No.	REVISION	DATE	BY
SECTIONS, FILTERS & PIPE GALLERY MARINE CORPS BASE CAMP LEJEUNE, N.C.			
ROBERTS FILTER MFG. CO. DARBY, PENNA.			
DRAWN	C.M.K.	DATE	12-11-70
TRACED	DATE	CHECKED	P.E.W.
SCALE	3/8" = 1'-0"	APPROVED	DATE
SECTION	6	CONTRACT	7623
DRAWING No. 6249-3		S.O.	

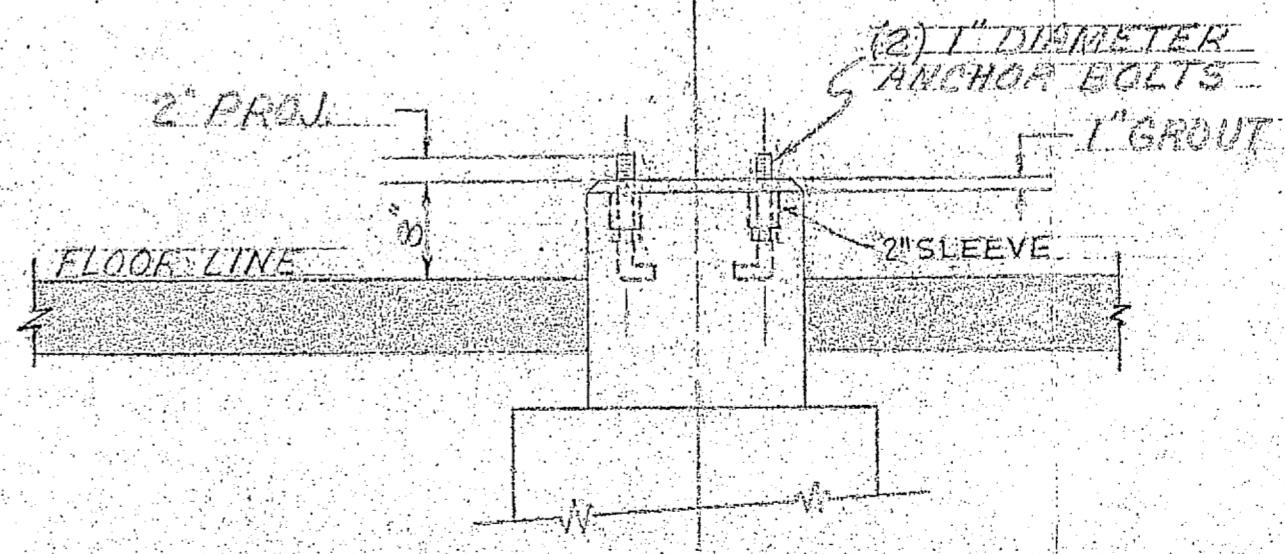
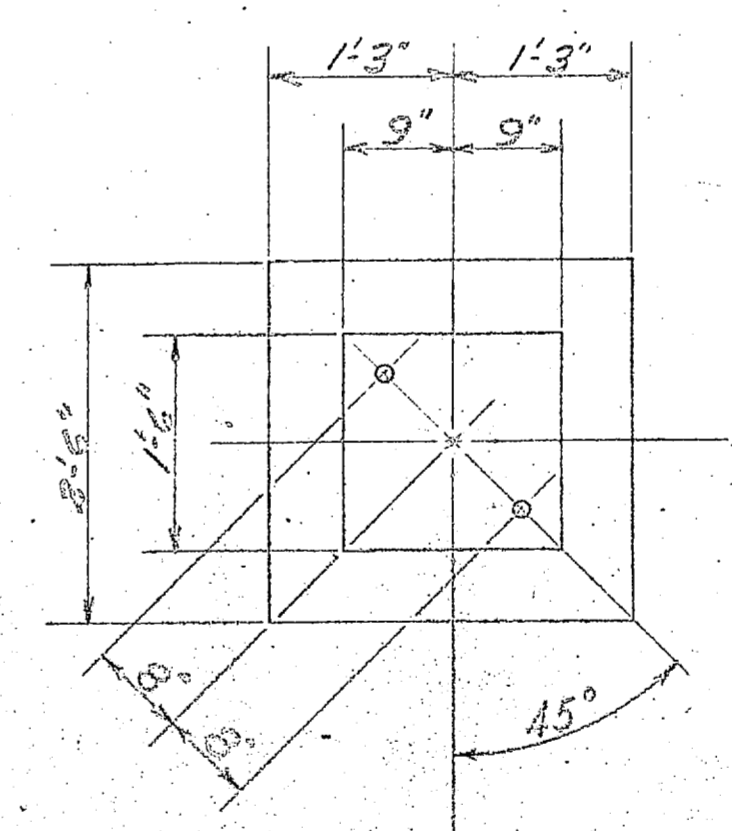
REVISED PRINT
 Destroy all previous prints of this number.
 Roberts Filter Mfg. Co.
 Darby, Pa.
 Dist. No. S-11-71

1,338,889





SECTION A-A
SCALE 3/8" = 1'-0"



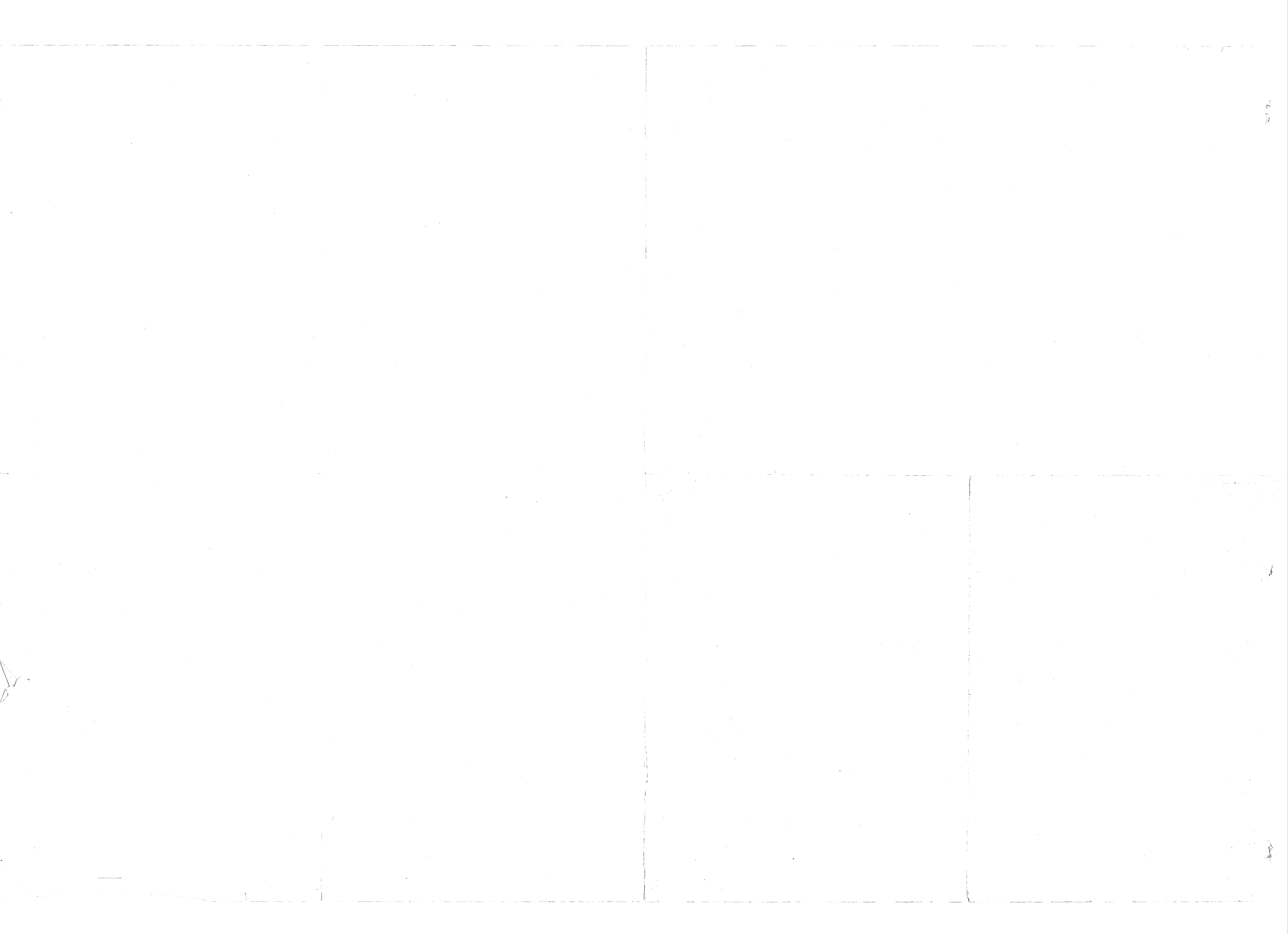
PEDESTAL DETAIL
SCALE 3/8" = 1'-0"

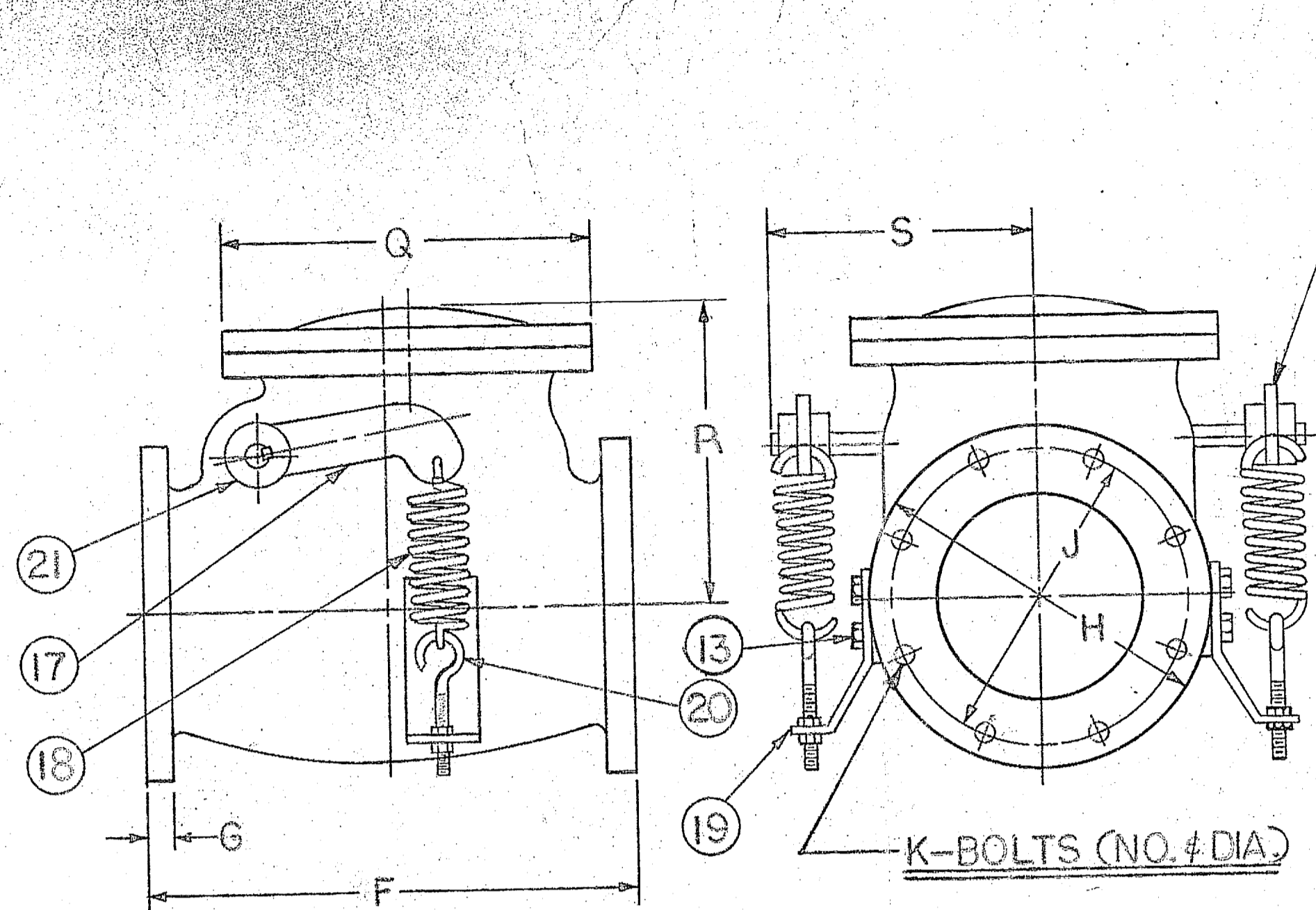
ROBERTS FILTER MFG. CO.
1-19-71

APPROVED OR APPROVED AS BUILT
By: [Signature]

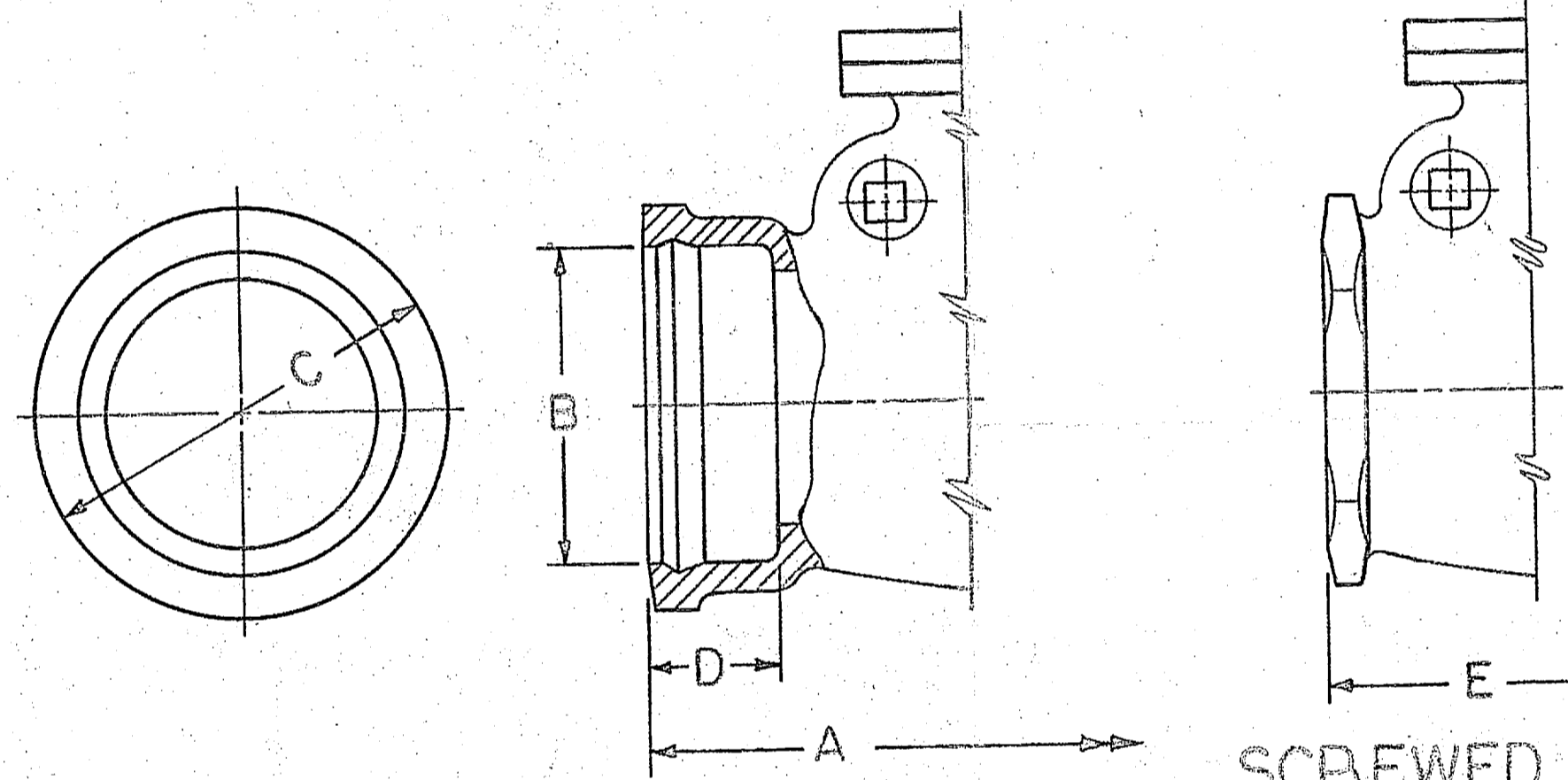
2	ADDED FLUME SLEEVES & CHANGED PIPING	12-23-70	R.W.
No.	REVISION	DATE	BY
T.S. DWG. OF TREATMENT GALLERY MARINE CORPS BASE CAMP LEJEUNE, N.C.			
ROBERTS FILTER MFG. CO. DARBY, PENNA.			
DRAWN R.W.K.	DATE 12-23-70	CHECKED R.W.	DATE 12-23-70
TRACED	DATE	APPROVED	DATE
SCALE AS SHOWN	CONTRACT 16.83	S.O.	
SECTION 6	DRAWING No. 6.249-8		

1,338, 889

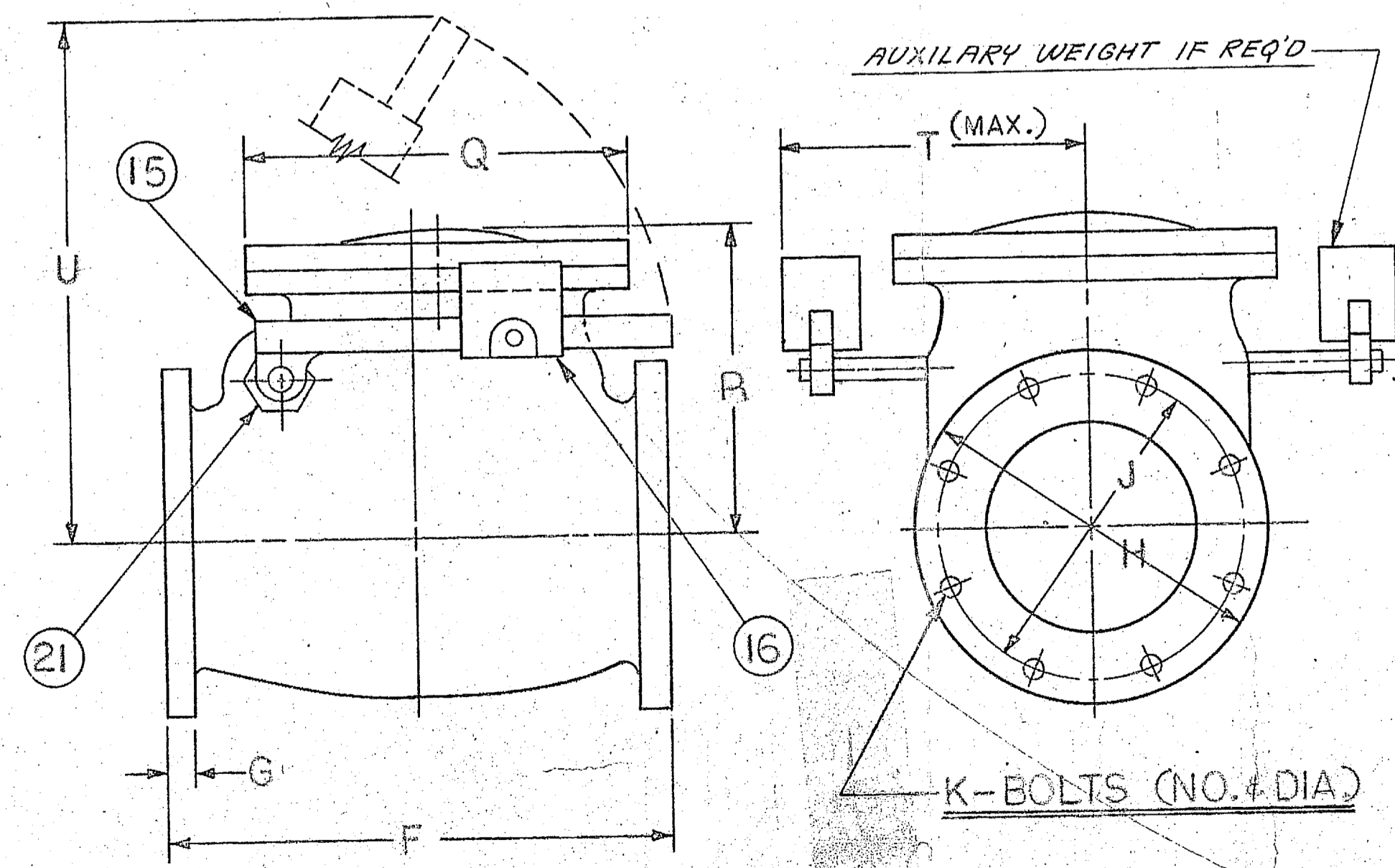




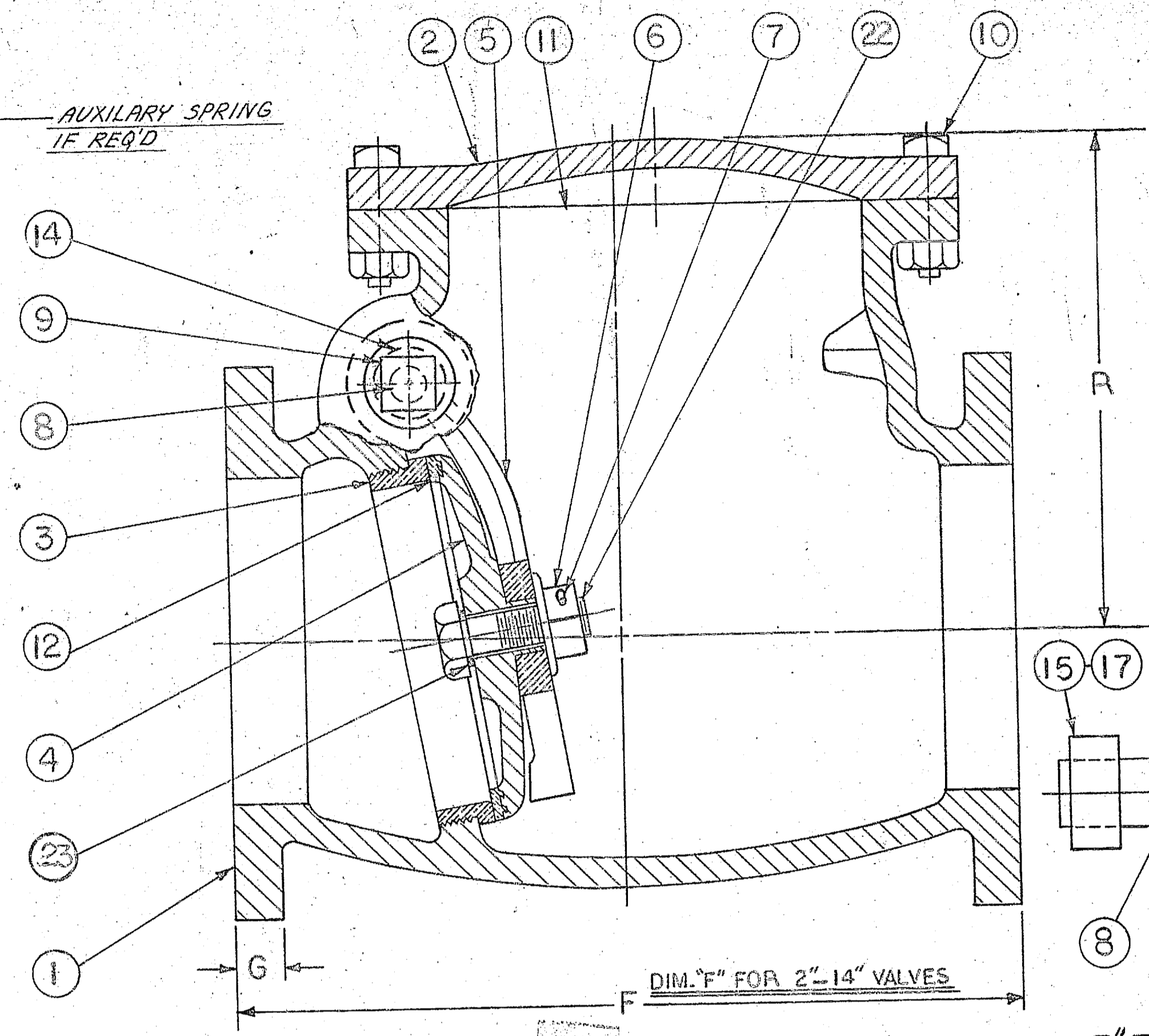
SPRING AND LEVER CHECK VALVE
2"-14"



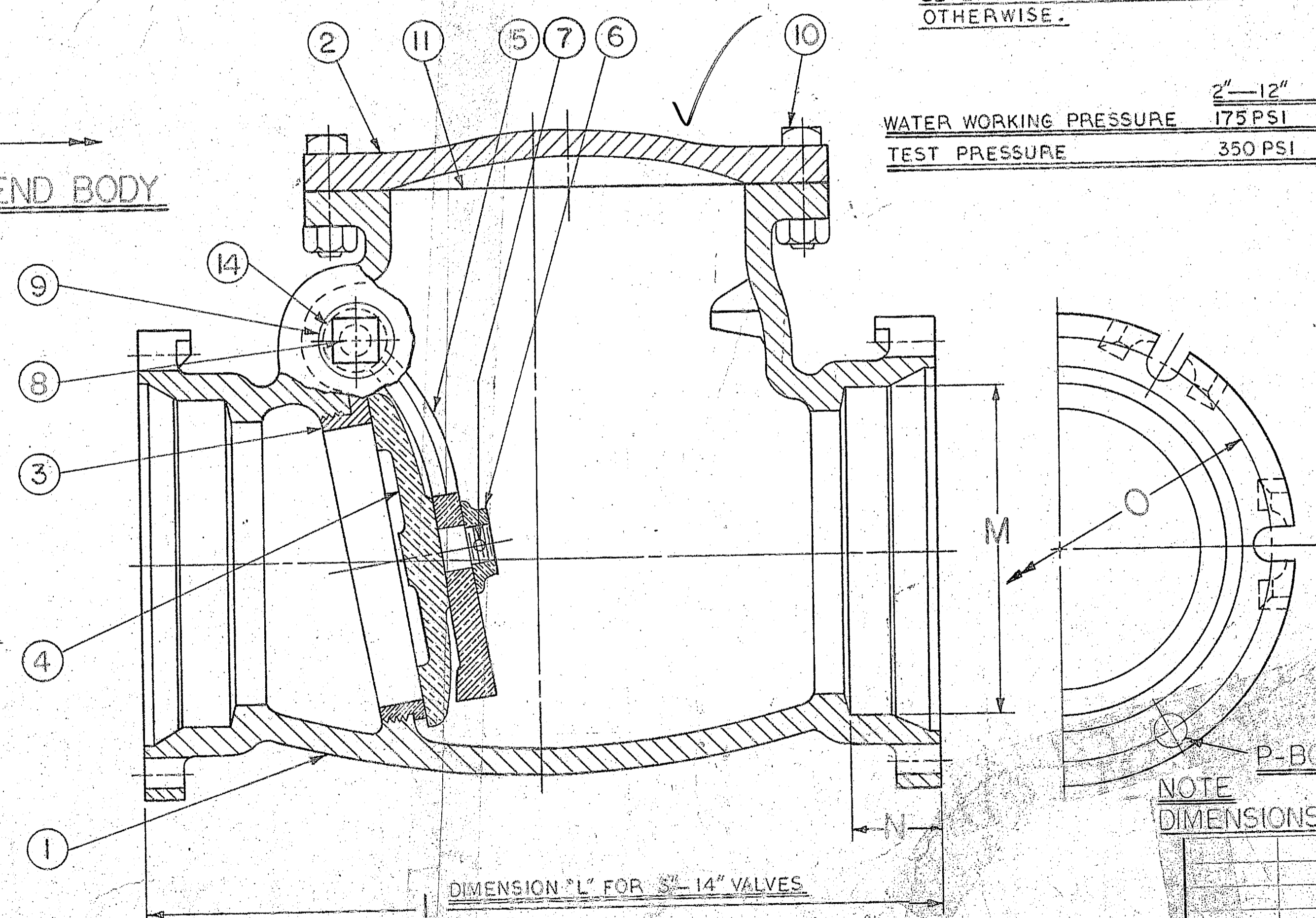
HUB END BODY
3"-14"



LEVER AND WEIGHT CHECK VALVE 2"-14"



5" THRU 14" VALVES
WITH BRONZE FACED CLAPPER



2" THRU 4" VALVE
WITH BRONZE CLAPPER

WATER WORKING PRESSURE	2"-12" 175 PSI	14" 150 PSI
TEST PRESSURE	350 PSI 300 PSI	

3" THRU 14" VALVES

NOTE: ALL 3"-14" CHECK VALVES WILL BE FURNISHED WITH O-RING SIDE PLUGS ON LEVERED VALVES UNLESS SPECIFIED OTHERWISE.

BILL OF MATERIAL				
MARK	REQ'D.	DESCRIPTION	MATERIAL	SPEC. NO.
1	1	BODY	CAST IRON	A-126 CL.B
2	1	COVER	"	"
3	1	BODY RING	BRONZE	B-62
4	1	CLAPPER (1)	SEE NOTE	NO. 1
5	1	CLAPPER ARM	BRONZE	B-152
6	1	CLAPPER NUT	"	B-62
7	1	COTTER PIN	"	"
8	1	HINGE PIN	STN. STL.	A-267-303
9	2	SIDE PLUG	BRONZE	B-62
10	VAR.	COVER BOLTS AND NUTS	STEEL	A-307 GR.B
11	1	COVER GASKET	ASBESTOS	"
12	1	CLAPPER RING (5"-14")	BRONZE	90-O-6-4
13	2	SPRING BRACKET CAP SCRS.	STEEL	A-307 GR.B
14	2	SIDE PLUG GASKET	COPPER ASBESTOS	"
15	1	WEIGHT LEVER ARM (2)	CAST IRON	A-126 CL.B
16	1	WEIGHT (2" STEEL)	"	"
17	1	SPRING LEVER ARM (3)	SEE NOTE	NO. 3
18	1	SPRING	STEEL	"
19	1	SPRING BRACKET	"	"
20	1	SPRING EYEBOLT	"	A-307 GR.B
21	2	STUFFING BOX ASSEMBLY	BRONZE	B-62
22	1	CLAPPER BOLT	"	B-21
23	1	CLAPPER BOLT GASKET	COPPER ASBESTOS	"
24	2	O-RING SIDE PLUG	BRONZE	B-62
25	2	O-RING	RUBBER	"

NOTE

- B-62 BRONZE ON 2" THRU 4" VALVES.
A-126 CL.B. CAST IRON ON 5" THRU 14" VALVES.
- WEIGHT LEVER ARM ON 2 1/4" VALVE-STEEL.
- BRONZE B-62 ON 2, 2 1/2, AND 3".
A-126 CL.B. CAST IRON ON 4", 6", 8", 10", 12" AND 14".

VALVE SIZE	2	2 1/2	3	4	5	6	8	10	12	14
A			16 1/2	18 1/2	18 1/2	22	25 1/2	27 1/2	31 1/2	35 1/2
B			4.76	5.80	6.70	7.90	10.10	12.20	14.30	16.45
C			7.36	8.40	9.375	10.70	13.25	15.40	17.70	20.05
D			3 1/2	4	4	4	4	4	4	4
E	6 1/2	10	10 1/2	12 1/2	14 1/2	15 1/2	18 1/2			
F	8	10	10 1/2	13	15	16	19	22	26	30
G	6	8	8 1/2	10 1/2	12 1/2	14 1/2	17 1/2	20 1/2	24 1/2	28 1/2
H	6	7	7 1/2	9	10	11	13 1/2	16	19	21
J	4 1/2	5 1/2	6	7 1/2	8 1/2	11 1/2	14 1/2	17	19 1/2	
K	4 1/2	4 1/2	4 1/2	8 1/2	8 1/2	6 1/2	8 1/2	12 1/2	12 1/2	1
L			13 1/2	16 1/2		18	22 1/2	24 1/2	28 1/2	34 1/2
M			4.15	5.00		7.09	9.20	11.20	13.40	15.59
N			2 1/2	2 1/2		2 1/2	2 1/2	2 1/2	2 1/2	3 1/2
O			6 1/2	7 1/2		9 1/2	11 1/2	14	16 1/2	18 1/2
P			4 1/2	4 1/2		6 1/2	6 1/2	8 1/2	8 1/2	10 1/2
Q	6 1/2	6 1/2	7 1/2	9 1/2	10 1/2	12 1/2	14 1/2	19	21	23 1/2
R	5 1/2	6	6 1/2	7 1/2	9 1/2	10 1/2	12 1/2	14 1/2	16 1/2	18 1/2
S	4 1/2	5 1/2	5 1/2	7 1/2	8 1/2	10 1/2	13 1/2	13 1/2	15 1/2	
T	4 1/2	5 1/2	6 1/2	8	8 1/2	9 1/2	11 1/2	13 1/2	15 1/2	17
U	7 1/2		10 1/2	13	16 1/2	20	23 1/2	31	32 1/2	34 1/2

APPROVED or APPROVED AS NOTED
By: *[Signature]*
Quality Control Representative
Cotton Construction Company
Date: *2-20-70*

② 7/15/53 Revised CHANGED 14" C.V. FROM B-62 TO A-126 BRONZE.
① 12/28/48 Added O-RING SIDE PLUGS.

REVISIONS	
No.	DESCRIPTION
1	CHANGED 14" C.V. FROM B-62 TO A-126 BRONZE.
2	ADDED O-RING SIDE PLUGS.

M & H VALVE & FITTINGS COMPANY
ANNISTON, ALABAMA
DIVISION OF DRESSER INDUSTRIES, INC.

TITLE 2"-14" SWING CHECK VALVES
DESCRIPTION BRONZE FACED CLAPPER
APPROVAL DRAWING

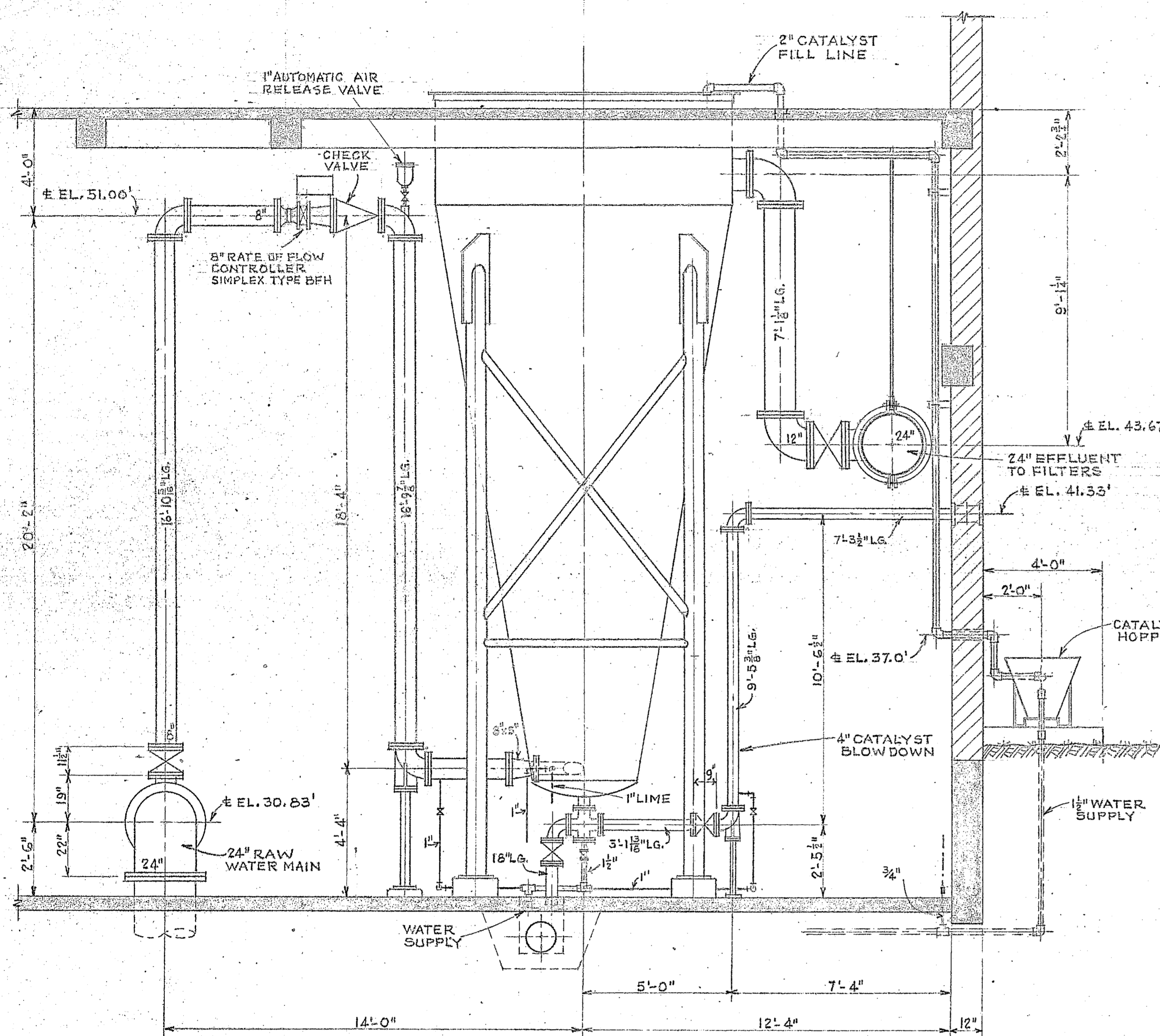
DESIGNED	DATE	7040 DTD. 6-21-54
DRAWN/ADAP	DATE	4-1-67 SUPERSEDES
TRACED	DATE	SCALE NONE
CHECKED <i>[Signature]</i>	DATE	DWG. No. <i>8972</i>
APPROVED	DATE	

NOTE
DIMENSIONS GIVEN IN INCHES

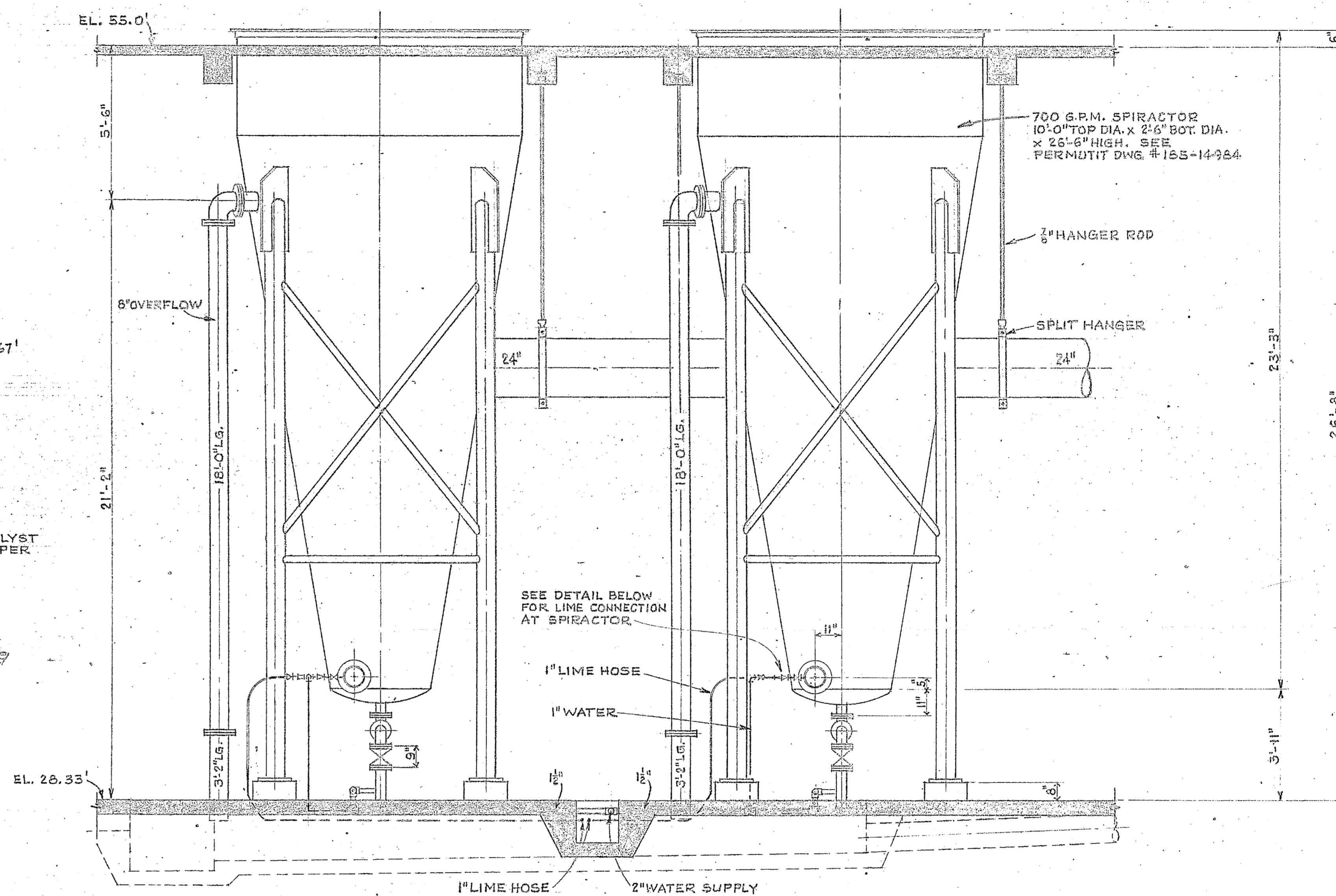
WORK TO DIMENSIONS AND REPORT ANY ERRORS

1338, 889

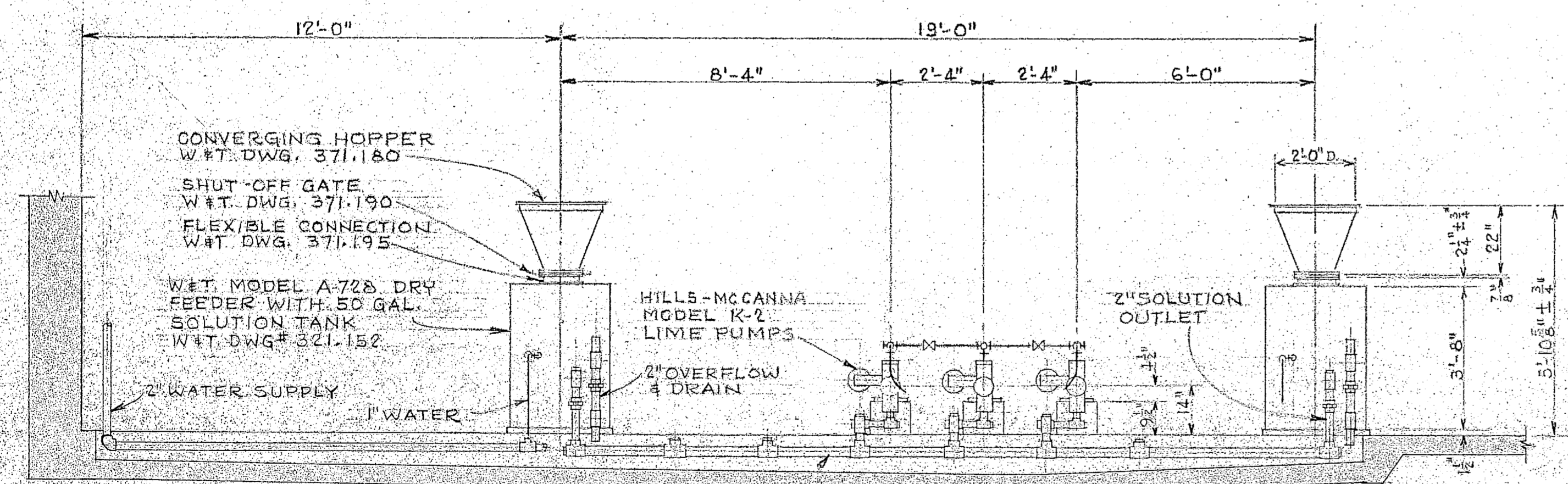




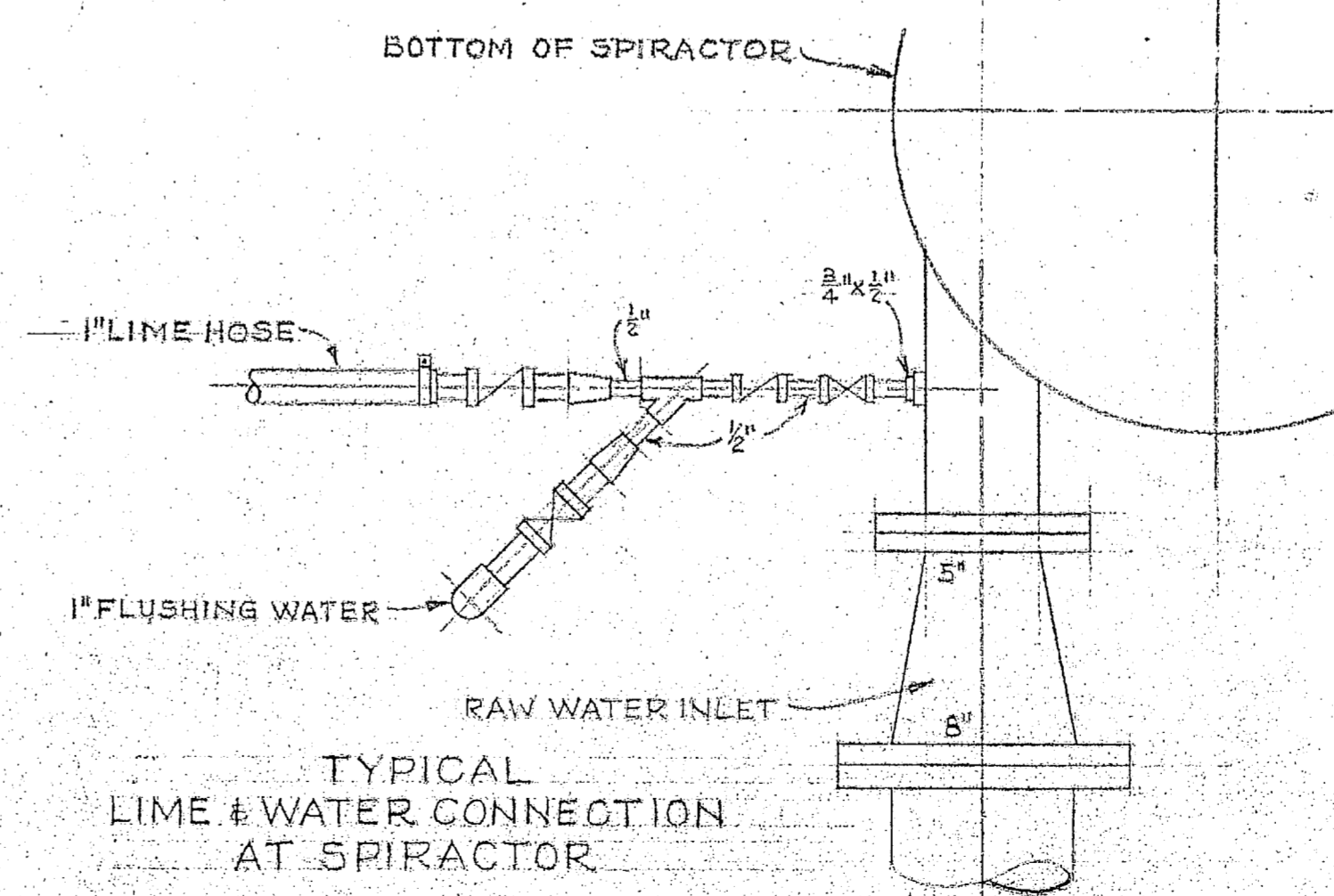
SECTION : A-A



SECTION : B-B



SECTION : C-C



PLAN

REVISED PRINT
 Destroy all previous prints
 of this number.
 Roberts Filter Mfg. Co.
 Darby, Pa.
 Date 1-19-71

SECTIONS ON THIS SHEET ARE TAKEN FROM PLAN ON DWG. # 6249-6

No.	REVISION	DATE	BY
2			
1	LOWERED R.W. MAIN LOOP FOR CONTROLLER CLEARANCE	1-19-71	R.W.

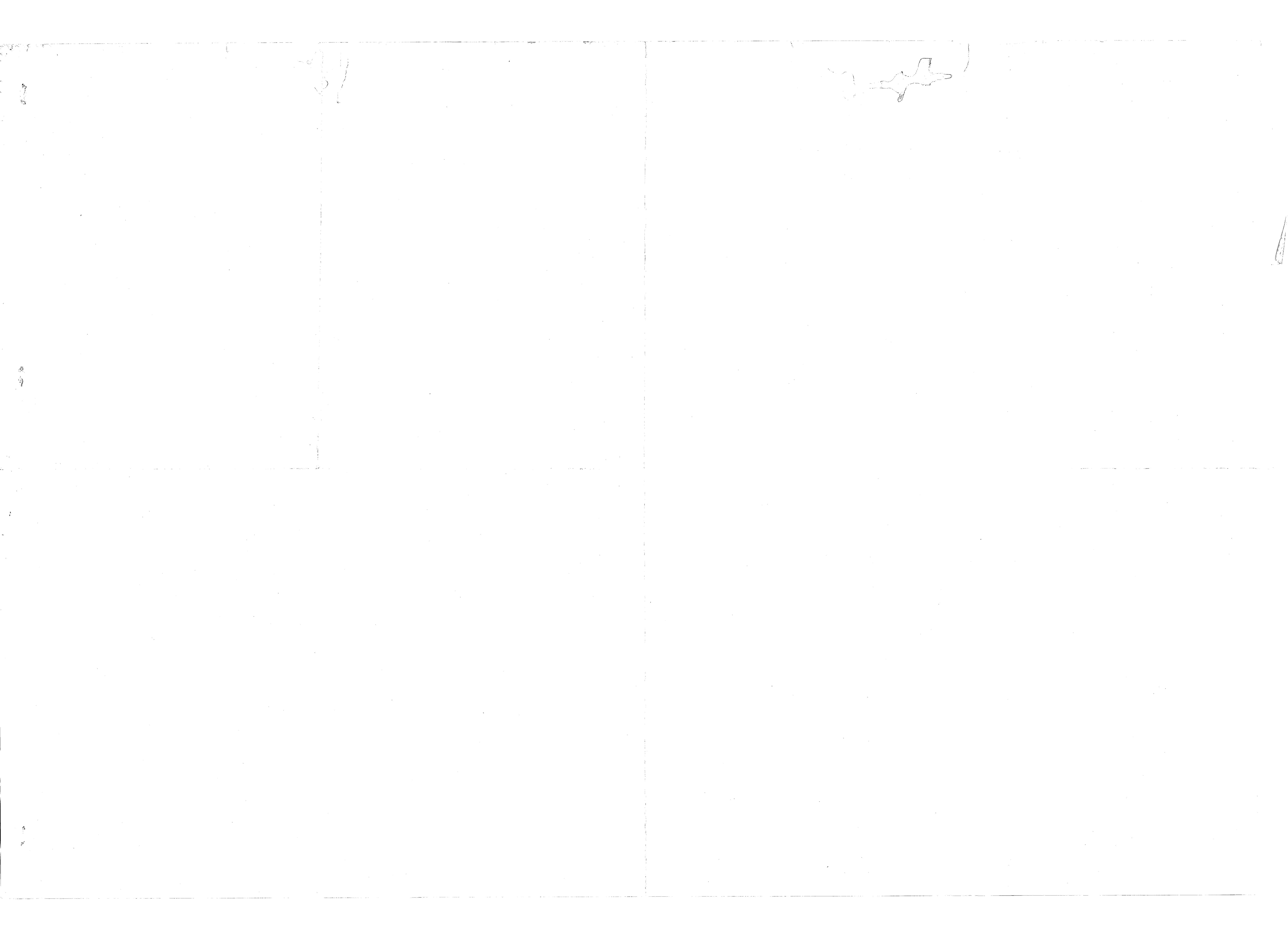
SECTIONS OF TREATMENT GALLERY
 MARINE CORPS BASE
 CAMP LEJEUNE, N.C.

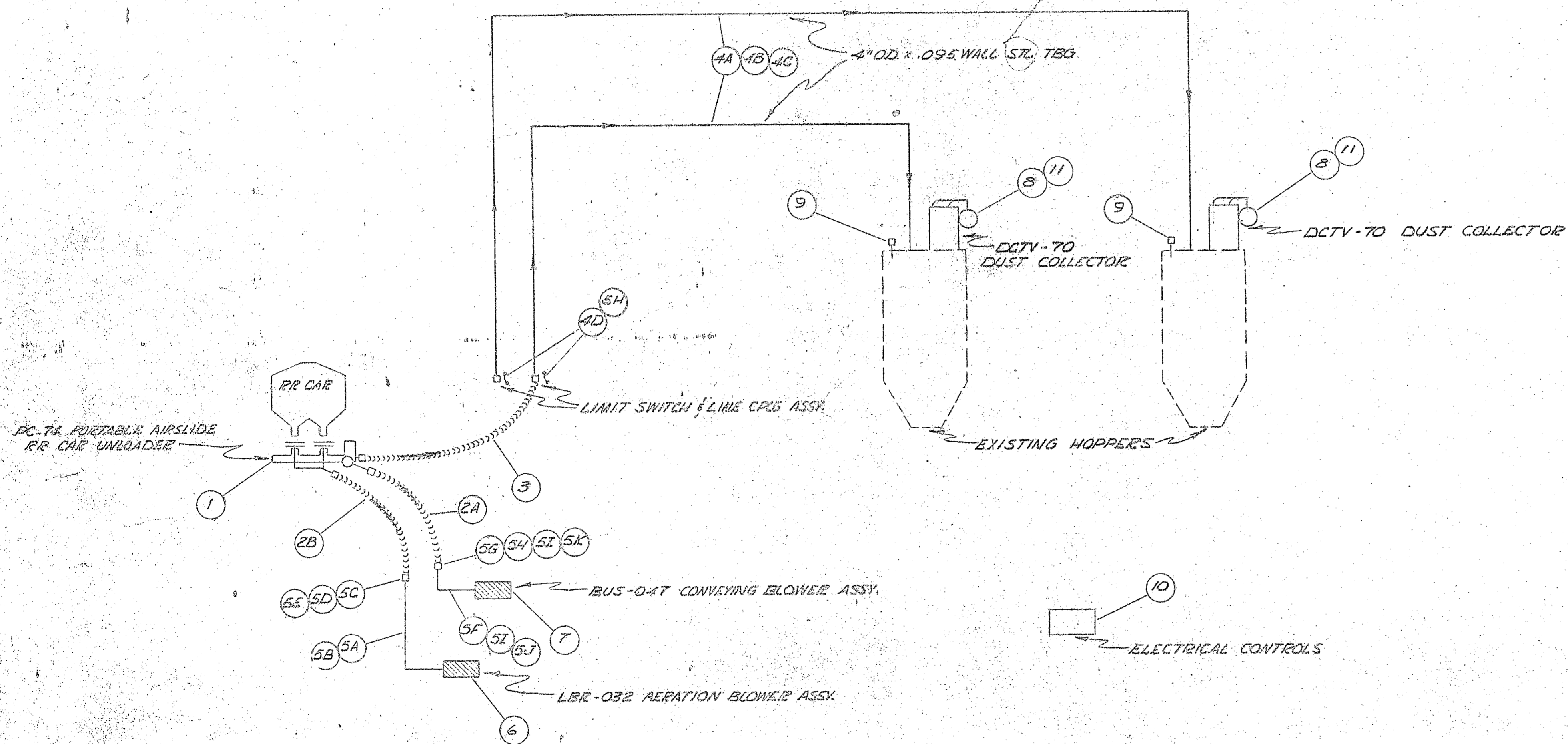
ROBERTS FILTER MFG. CO.
 DARBY, PENNA.

DRAWN R.W.	DATE 12-22-70	CHECKED	DATE
TRACED	DATE	APPROVED	DATE
SCALE AS SHOWN	CONTRACT 1653	S.O.	

SECTION 6 DRAWING No. 6249-7

1,336,889





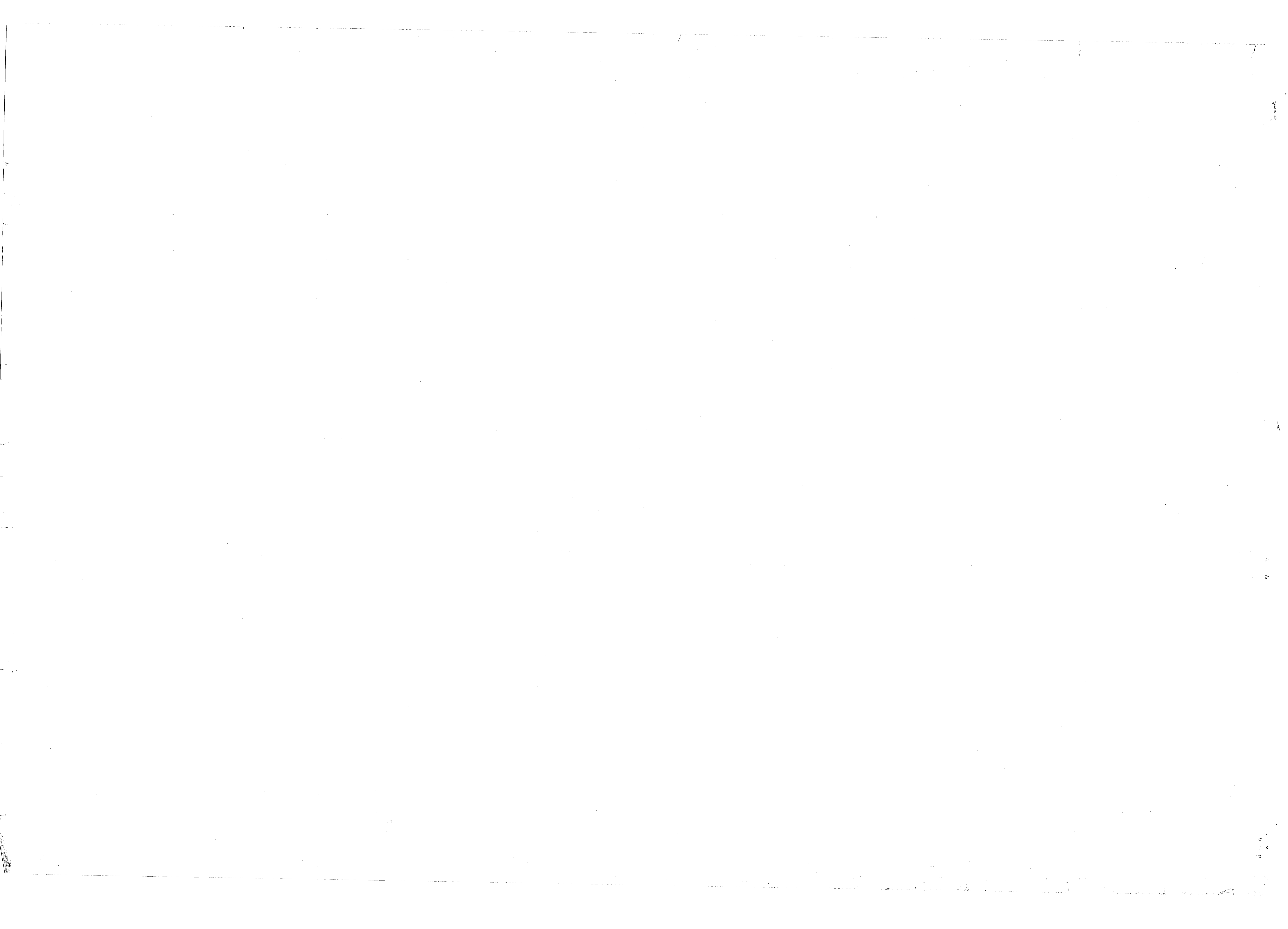
See sheet 14B

FINAL DRAWING

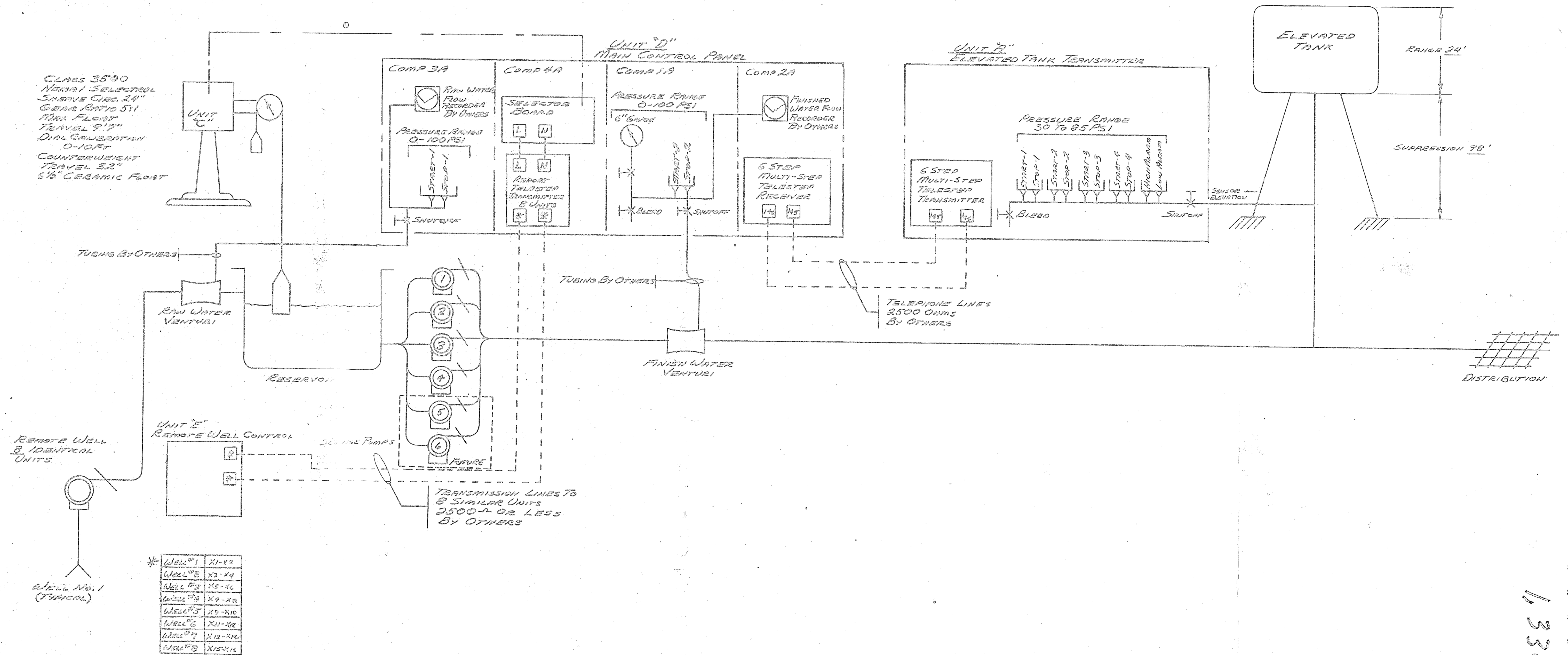
NOTICE
 This drawing and the information contained therein is the property of Systems Engineering & Mfg. Co., Inc., and is loaned with the expressed agreement that it will not be reproduced, copied or otherwise disposed of, directly or indirectly, and will not be used, in whole or in part, to furnish any information for the making of apparatus or the practicing of any process without written permission of Systems Eng. & Mfg. Co., Inc., first obtained and specific as to each case. The acceptance of this drawing will be construed as an acceptance of the foregoing statement.

11	SR-65 W 1/4" MESH HONARD CLOTH SCREEN	2
10	ELECTRICAL CONTROLS	LOT
9	SEM-CO-TROL HIGH LEVEL CONTROL	2
8	S1B16N-5 DCTV-70 DUST COLLECTOR	STEEL 2
7	S0 15296 BUS-04T BLOWER ASSY W/ 30HP MOTOR	1
6	S0 15295 LIB-032 BLOWER ASSY W/ 5HP MOTOR	1
5K	LC-45 COMPRESSION COUPLING	ALUM 1
5F	SR-45 SHORT RADIUS ELL	ALUM 2
5I	4 1/2" O.D. x .095 WALL x 4" NPT TUB NIPPLE x 9"	STEEL 2
5H	DP-4 DUST PLUG	3
5G	D-4 QUICK COUPLING	1
5E	4 1/2" O.D. x .095 WALL STEEL TUBING	5'
5D	3 1/2" O.D. x .083 WALL x 3" NPT TUB NIPPLE x 9"	STEEL 1
5C	DP-3 DUST PLUG	1
5B	D-3 QUICK COUPLING	1
5A	SR-35 SHORT RADIUS ELL	ALUM 3
4D	S1B16N-4 LIMIT SWITCH & LINE COUPLING ASSEMBLY	2
4C	LC-40 COMPRESSION COUPLINGS	ALUM 10
4B	TE-40-90° TUBING ELL	STEEL 2
4A	4" O.D. x .095 WALL STEEL TUBING	60'
3	S1B16N-3 4" RUBBER CONVEYING HOSE x 15 FT.	1
2B	S1B16N-2 3" AERATION HOSE x 10 FT.	1
2A	S1B16N-3 4" CONVEYING AIR HOSE x 15 FT.	1
1	S0 15290 PC-74 PORTABLE AIRSLIDE CAR UNLOADER	1

ITEM	PART NO.	DESCRIPTION	NO. REQ'D
SYSTEMS ENGINEERING AND MANUFACTURING CO. Division of Keystone Valve Corp. 6330 WASHINGTON AVENUE HOUSTON, TEXAS 77007			
FLOW DIAGRAM & BILL OF MATERIALS			
SYSTEM S1B16N			
MODELS FABRICATORS WILMINGTON, N.C.			
DRAWN	TJC	PROJ. ENGR.	TJL
APPR.		CHKD.	
DATE 12-2-70		APPD.	
SCALE NONE		DATE	



CLASS 3500
 NEARLY SELF-CONTROL
 SHAVING CIRC. 24"
 GEAR RATIO 5:1
 RAW FLOAT
 TRAVEL 9 1/2"
 DIAL CALIBRATION
 0-10 FT
 COUNTERWEIGHT
 TRAVEL 32"
 6 1/2" CERAMIC FLOAT



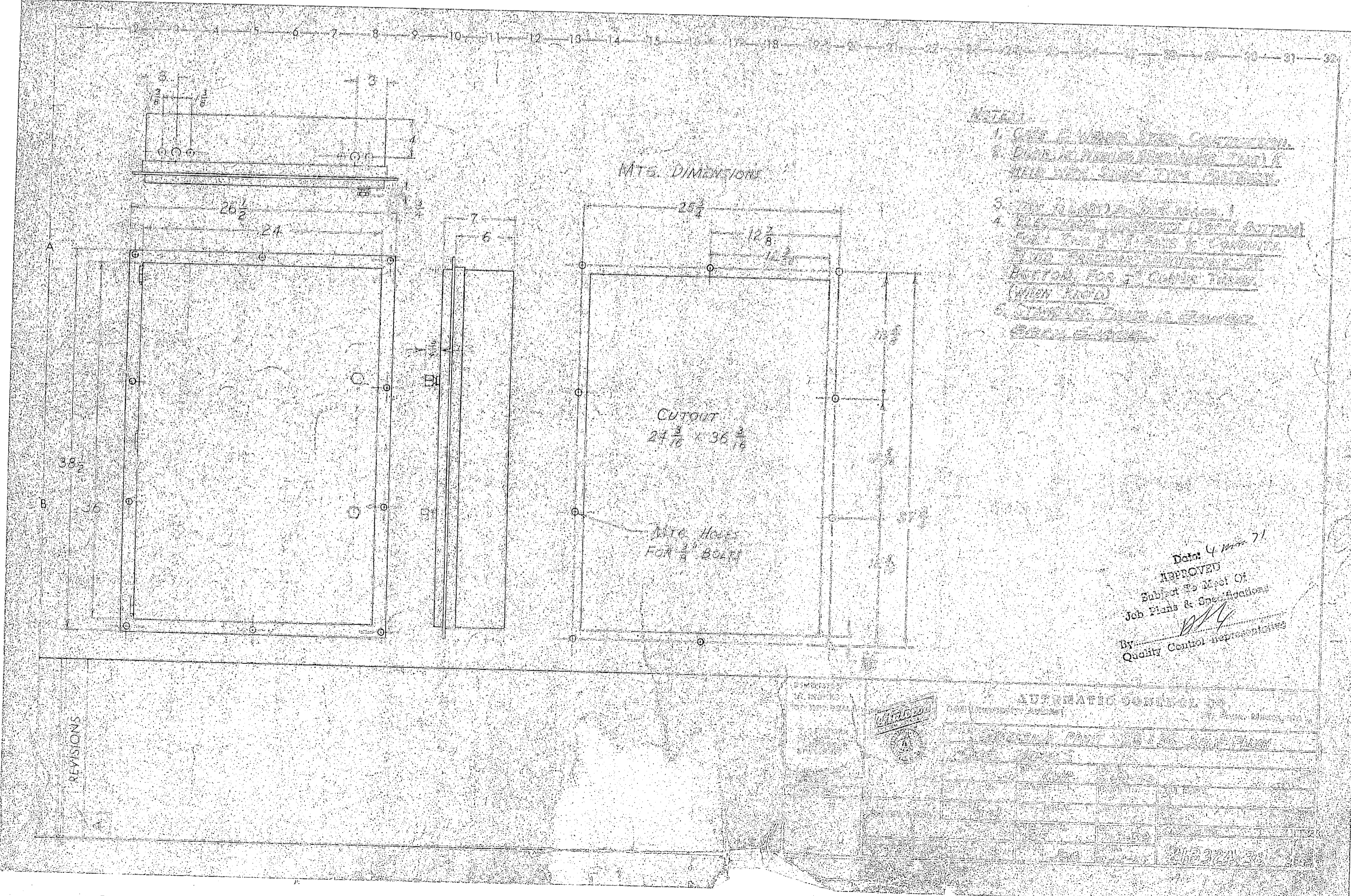
* Well #1	X1-X2
Well #2	X3-X4
Well #3	X5-X6
Well #4	X7-X8
Well #5	X9-X10
Well #6	X11-X12
Well #7	X13-X14
Well #8	X15-X16

Date 4 Mar 71
 APPROVED
 Subject To Most Of
 Job Specs & Specifications
 By _____
 Quality Control Representative

13381889

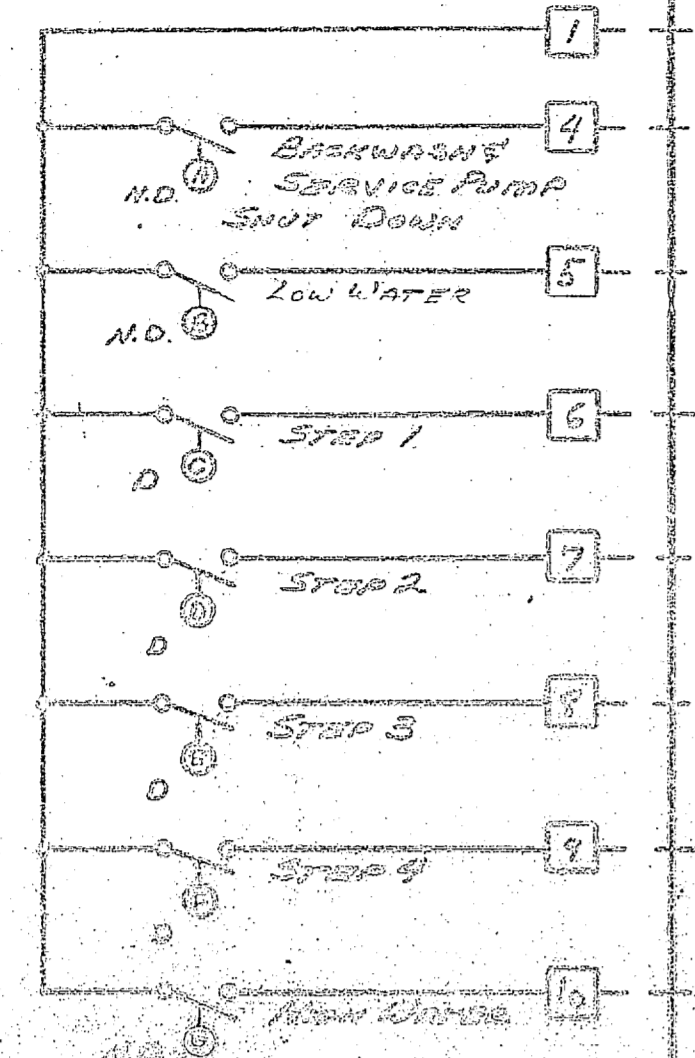
TRANSMISSION	DATE	SCALE	TITLE
1/2" = 1'	12/70	AS SHOWN	HYDRAULIC LAYOUT TRANSMISSION LINES
DESIGNED BY	DATE	BY	
CHECKED BY	DATE	BY	
APPROVED BY	DATE	BY	
PROJECT NO.	SHEET NO.	SHEET TOTAL	
COMPLETONE, INC.			D134396-1



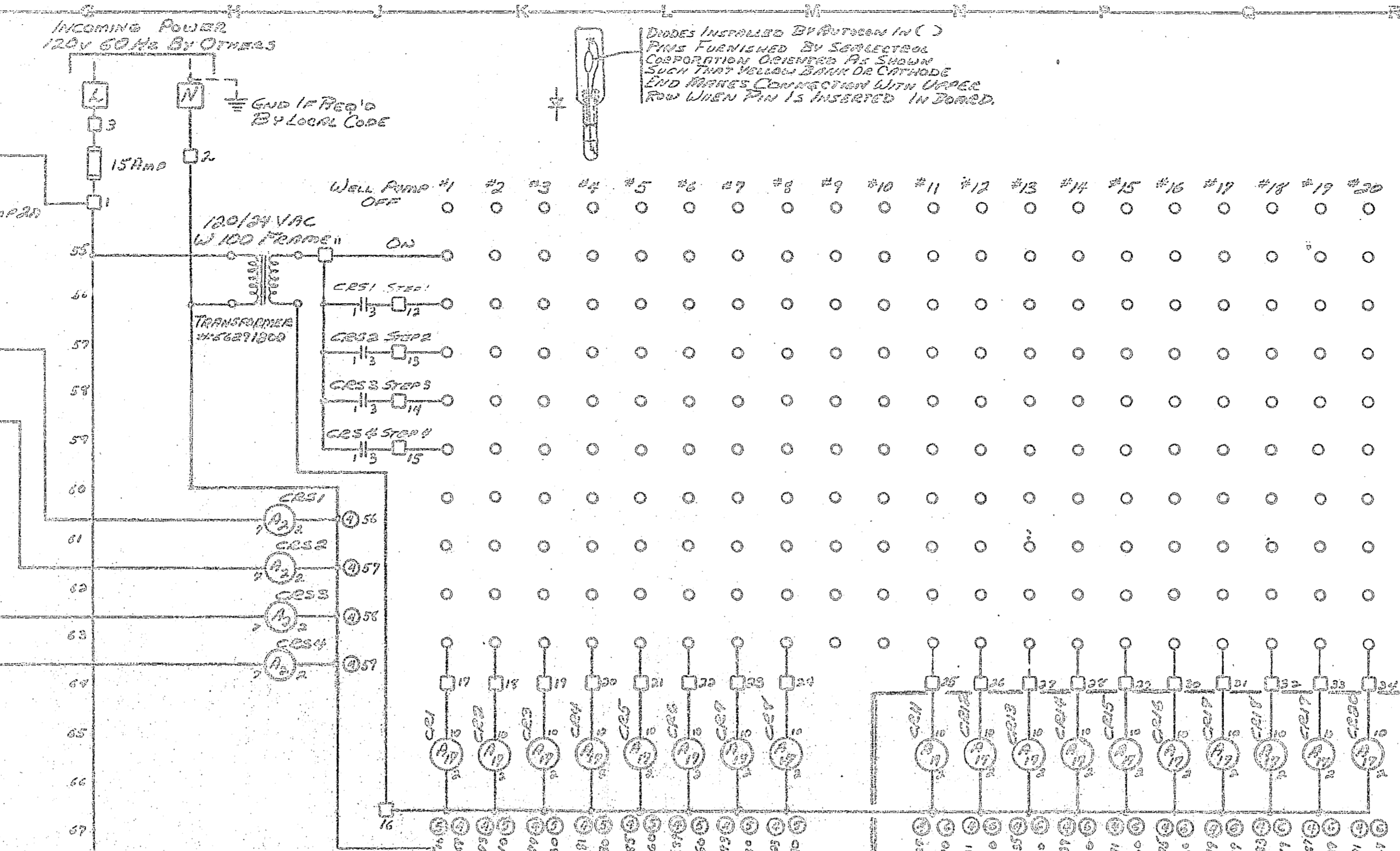




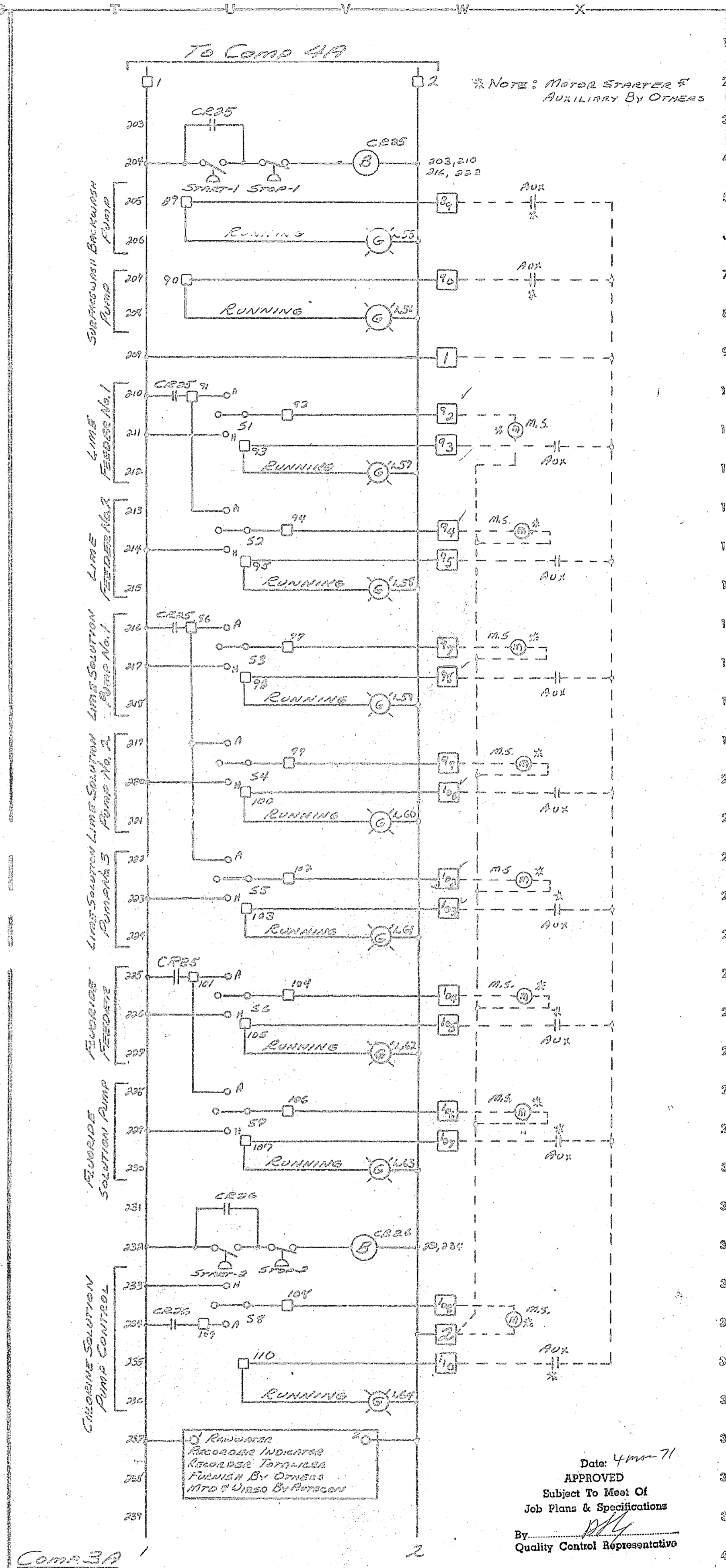
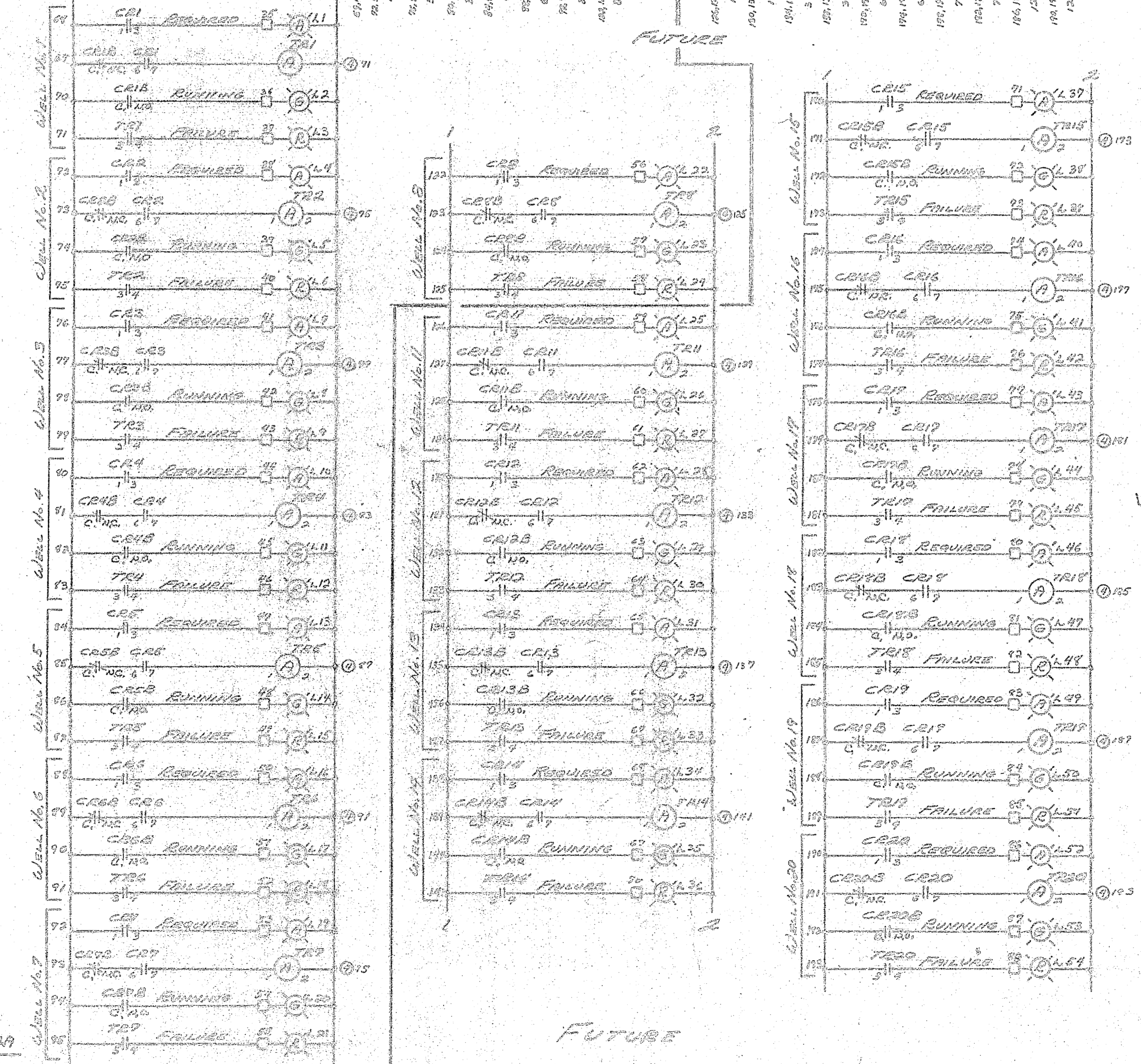
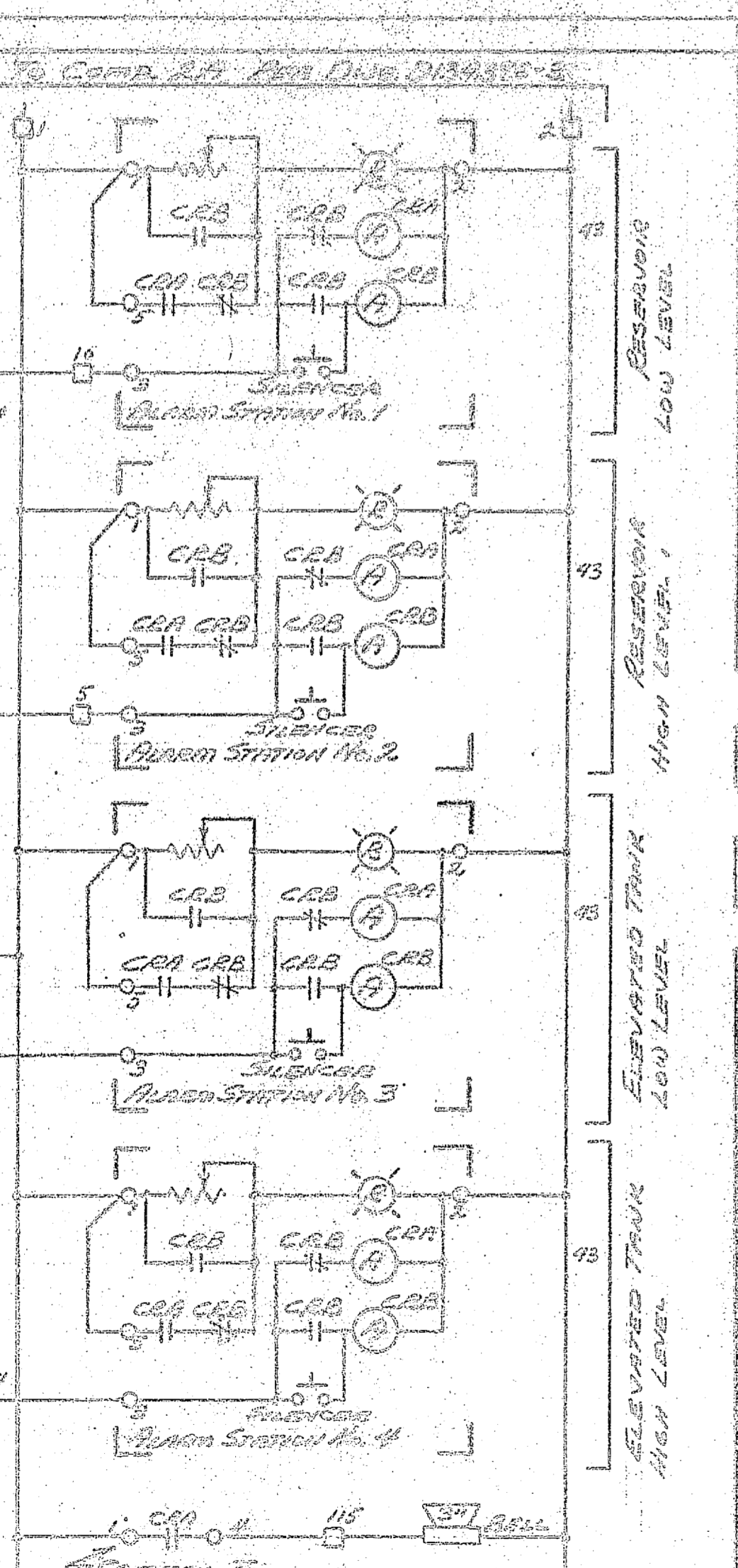
UNIT "C"
 Pedestal MTR
 Manual Selector
 At Reservoirs



Flow	Flow	Flow
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102



Diodes Installed By Autocan in ()
 Pins Furnished By Sollectrol
 Connections Checked By Smith
 Such That Voltage Shall Be Correct
 And Wiring Connections With Proper
 Terminals When This is Installed in Panel.

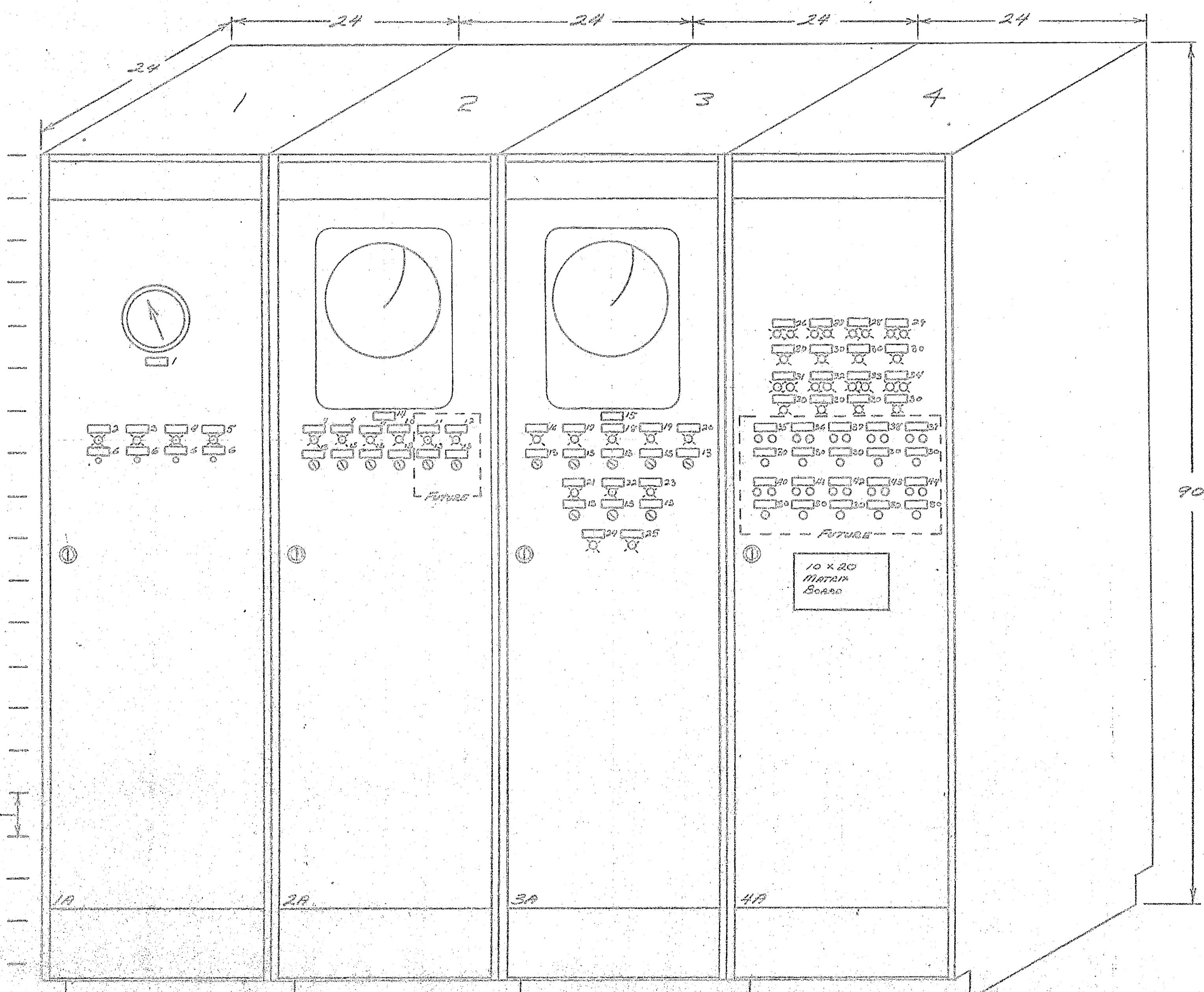


Date: 4-11-71
 APPROVED
 Subject To Most Of
 Job Plans & Specifications
 By: [Signature]
 Quality Control Representative

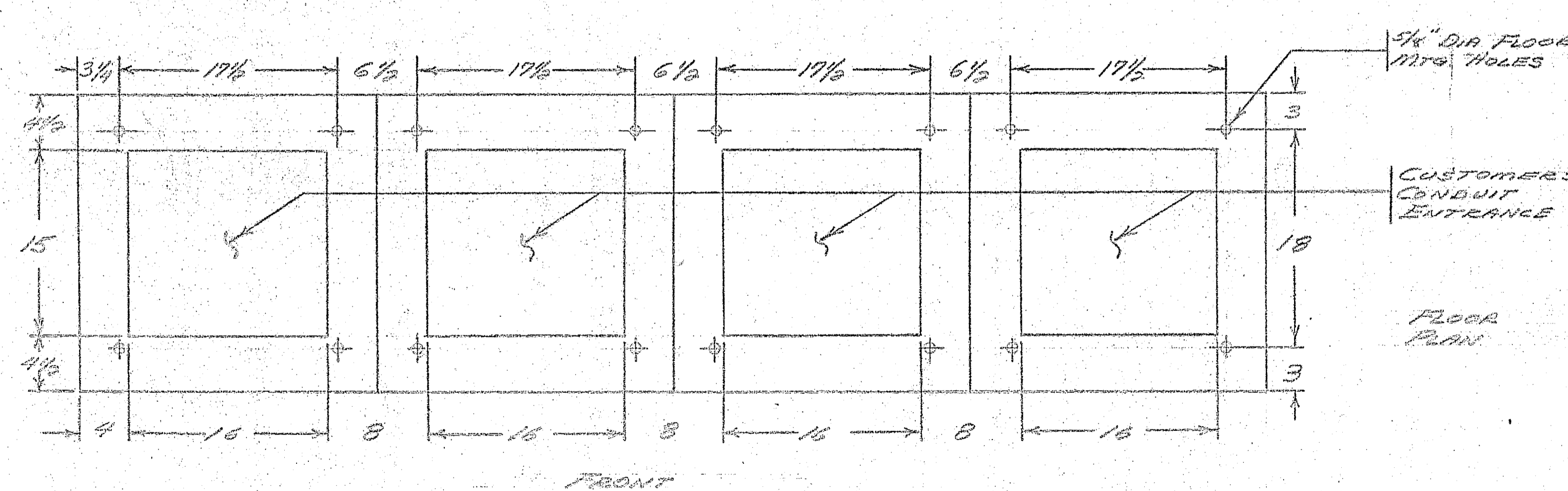
**UNIT "D" AT TREATMENT PLANT
 MAIN CONTROL PANEL**

DESIGNED BY	REX	DATE	4-11-71
DRAWN BY	WCLV-2-D	TITLE	10 CUSTOM CONTROL CENTER
CHECKED BY	WCLV-2-D	SCALE	AS SHOWN
APPROVED BY	[Signature]	PROJECT NO.	134396
COMPANY	COMP. RESUME, N.C.	PROJECT	134396





Part No.	NOMENCLATURE DESIGNATIONS			N.P. No.	Unit Qty	No. Reqd.
	TOP LINE	MIDDLE LINE	BOTTOM LINE			
515	SYSTEM		PRESSURE	1	1A	1
R7	RESERVOIR		LOW LEVEL	2	1A	1
R8	RESERVOIR		HIGH LEVEL	3	1A	1
EA	ELEVATED TANK		LOW LEVEL	4	1A	1
ES	ELEVATED TANK		HIGH LEVEL	5	1A	1
53		SILENCER		6	1A	4
	SERVICE PUMP 1		RUNNING	7	2A	1
	SERVICE PUMP 2		RUNNING	8	2A	1
	SERVICE PUMP 3		RUNNING	9	2A	1
	SERVICE PUMP 4		RUNNING	10	2A	1
	SERVICE PUMP 5		RUNNING	11	2A	1
	SERVICE PUMP 6		RUNNING	12	2A	1
H1	HAND OFF AUTO			13	3A	14
	FINISHED WATER		RECORDER	14	3A	1
	RAW WATER		RECORDER	15	3A	1
	LIME FEEDER No.1		RUNNING	16	3A	1
	LIME FEEDER No.2		RUNNING	17	3A	1
	LIME SOLUTION	PUMP No.1	RUNNING	18	3A	1
	LIME SOLUTION	PUMP No.2	RUNNING	19	3A	1
	LIME SOLUTION	PUMP No.3	RUNNING	20	3A	1
	CHLORINE SOLUTION	BODATER PUMP	RUNNING	21	3A	1
	FLUORIDE FEEDER	PUMP	RUNNING	22	3A	1
	FLUORIDE SOLUTION	PUMP	RUNNING	23	3A	1
	BACKWASH PUMP		RUNNING	24	3A	1
	SURFACE WASH	PUMP	RUNNING	25	3A	1
	WELL No. 1		REQ'D RUNNING	26	4A	1
	WELL No. 2		REQ'D RUNNING	27	4A	1
	WELL No. 3		REQ'D RUNNING	28	4A	1
	WELL No. 4		REQ'D RUNNING	29	4A	1
F1		FAILURE		30	4A	18
	WELL No. 5		REQ'D RUNNING	31	4A	1
	WELL No. 6		REQ'D RUNNING	32	4A	1
	WELL No. 7		REQ'D RUNNING	33	4A	1
	WELL No. 8		REQ'D RUNNING	34	4A	1
	WELL No. 11		REQ'D RUNNING	35	4A	1
	WELL No. 12		REQ'D RUNNING	36	4A	1
	WELL No. 13		REQ'D RUNNING	37	4A	1
	WELL No. 14		REQ'D RUNNING	38	4A	1
	WELL No. 15		REQ'D RUNNING	39	4A	1
	WELL No. 16		REQ'D RUNNING	40	4A	1
	WELL No. 17		REQ'D RUNNING	41	4A	1
	WELL No. 18		REQ'D RUNNING	42	4A	1
	WELL No. 19		REQ'D RUNNING	43	4A	1
	WELL No. 20		REQ'D RUNNING	44	4A	1



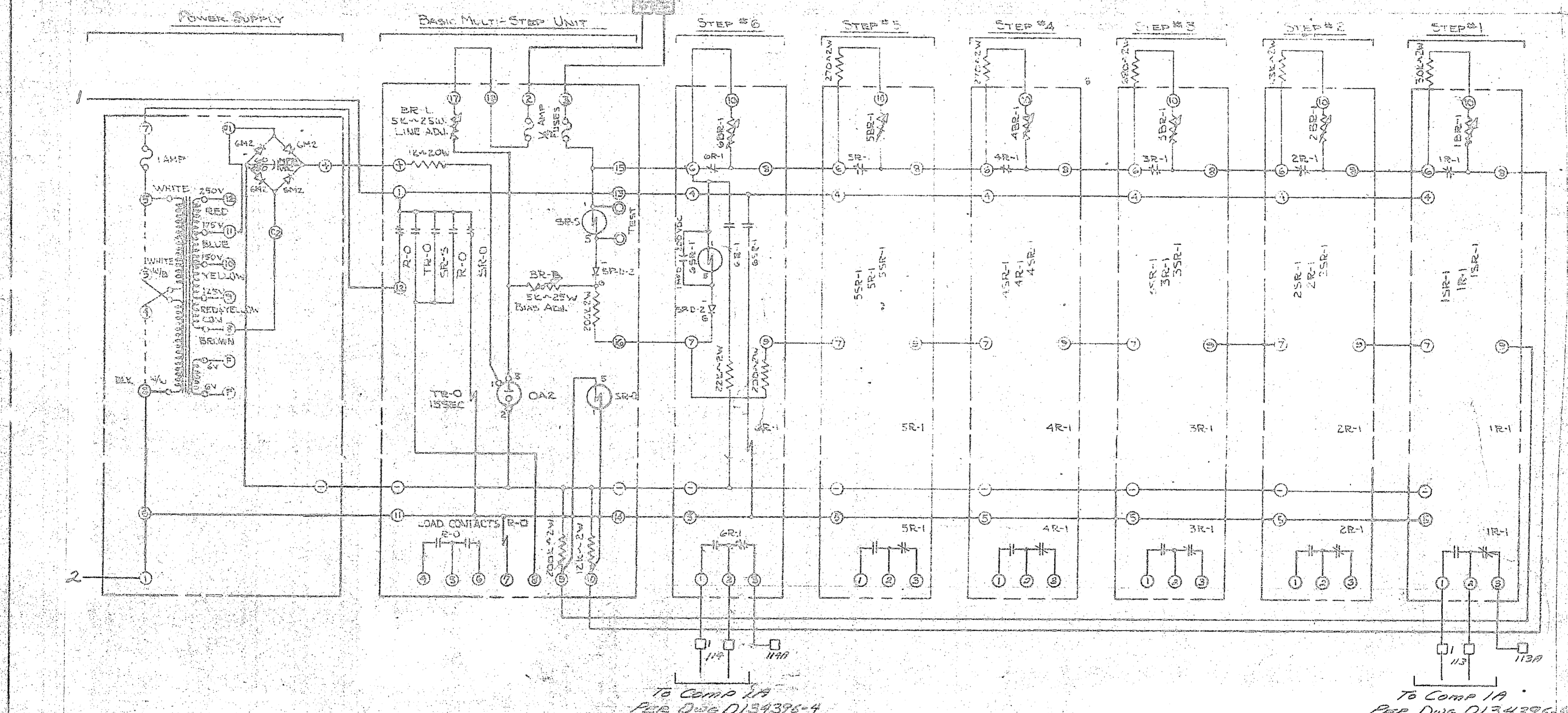
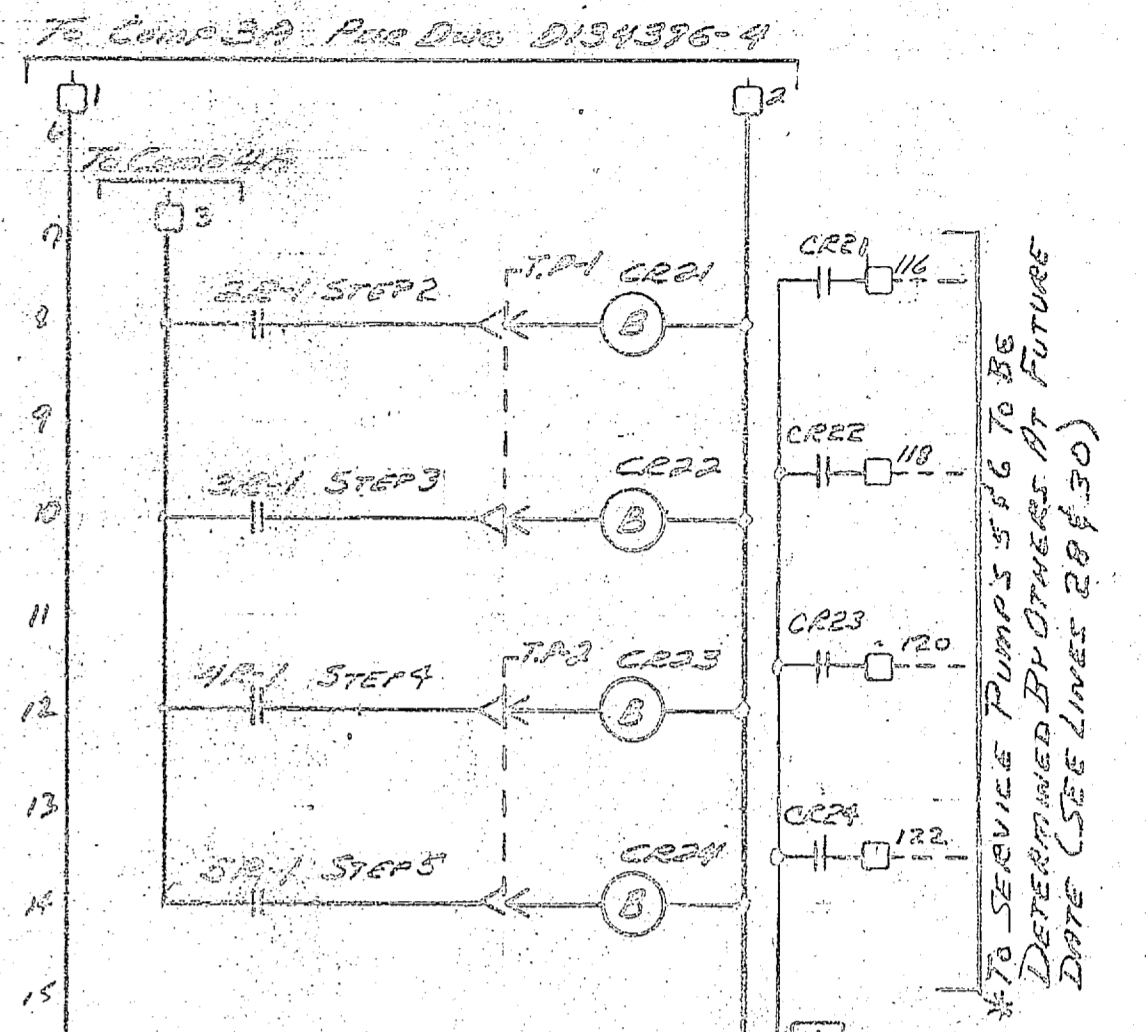
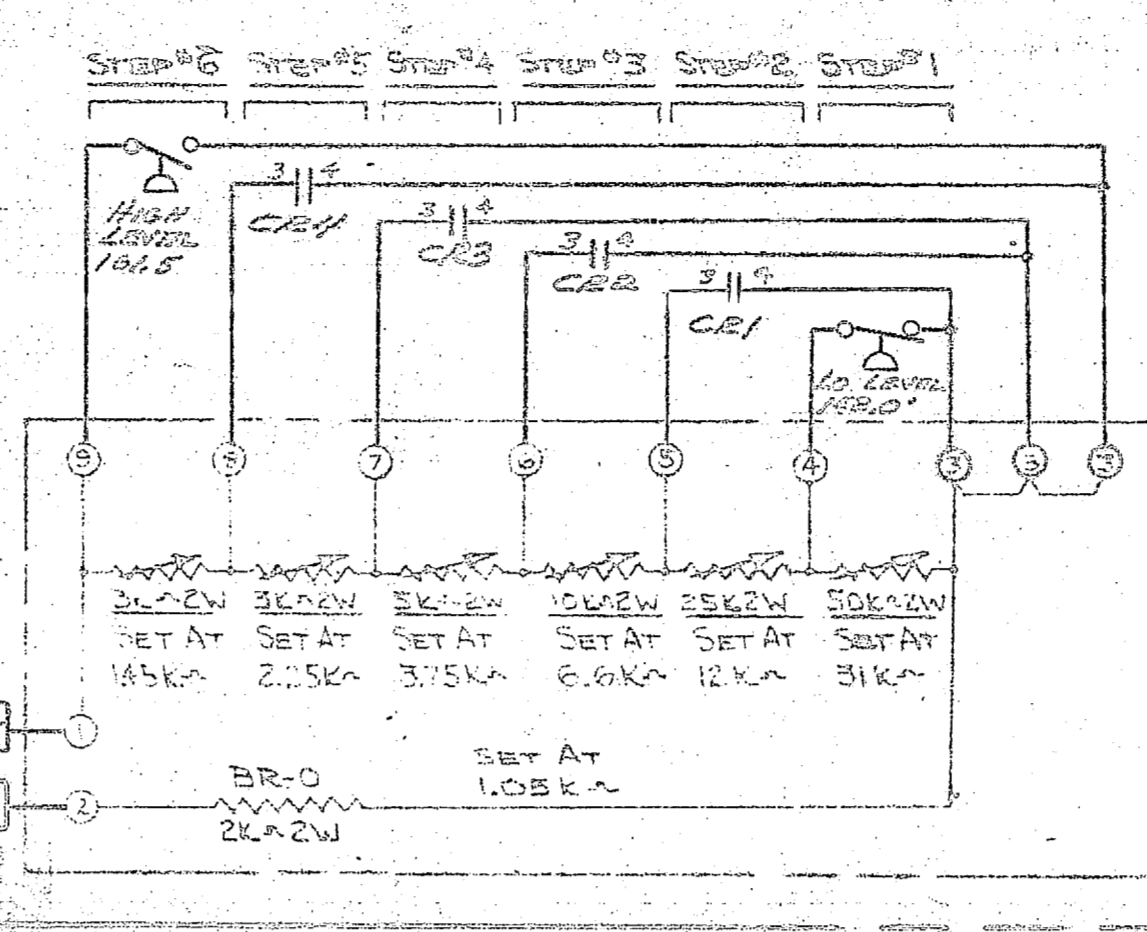
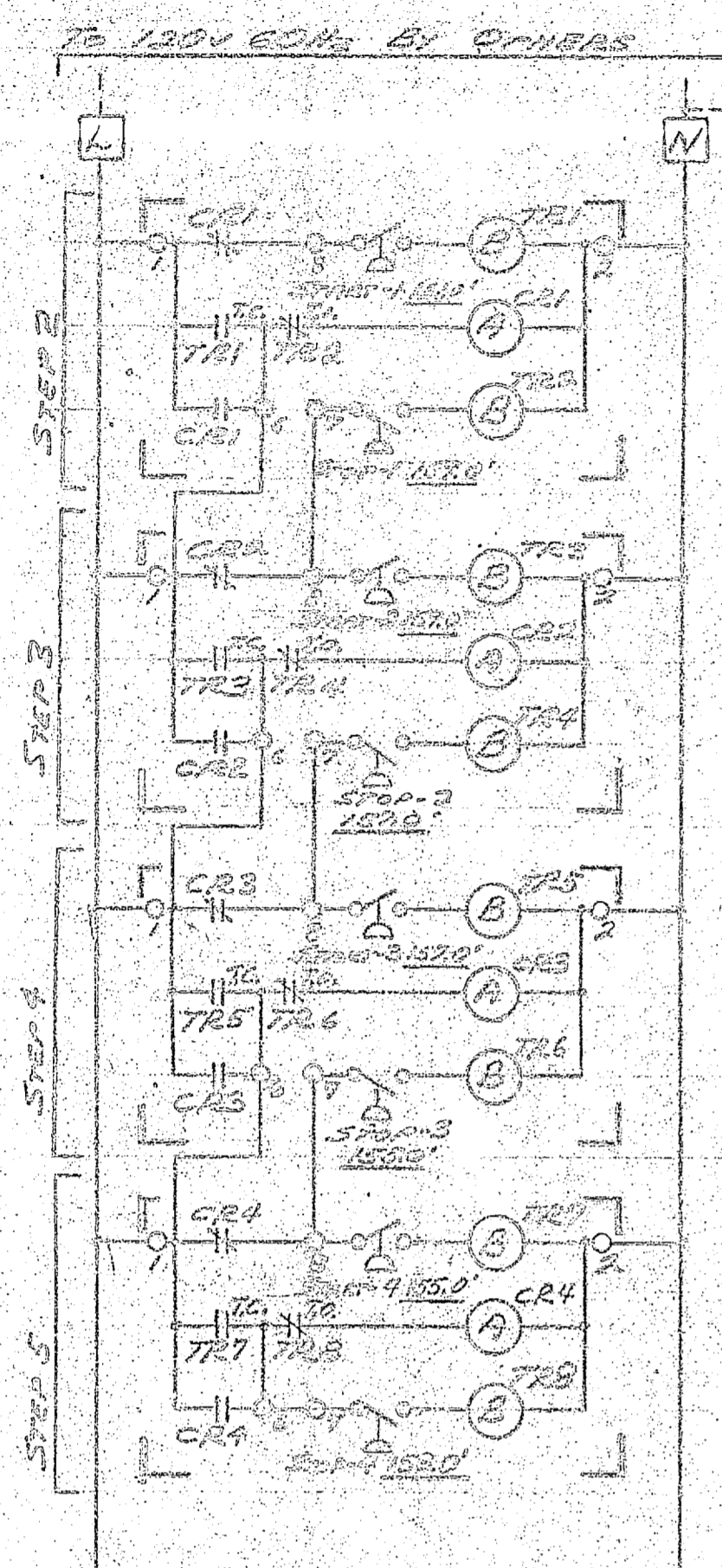
NOTES:
 1. ENCLOSURE IS NEMA 1 WELDED STEEL CONSTRUCTION, 5700 SERIES
 2. FRONT ACCESS ONLY
 3. FINISH: BAKED MILD GRAY ENAMEL, RS-49
 4. FOR FUTURE EQUIP. CUTOUTS PROVIDED WITH INDIVIDUAL FILLER PLATES.

Date: 4/11/71
 APPROVED
 Subject To Meet Of
 Job Plans & Specifications
 By: [Signature]
 Quality Control Representative

UNIT 'D' TREATMENT PLANT

DESIGNED BY	REV	DATE	APPROVED BY
DRAWN BY			
CHECKED BY			
DATE			
TITLE: DIMENSION PRINT			
FROM: CONTROL PANEL			
SCALE: 1/8" = 1'-0"			
PROJECT: Camp Lejeune, N.C.			
SHEET NO. 134396-05			
DRAWING NO. 0134396-2			





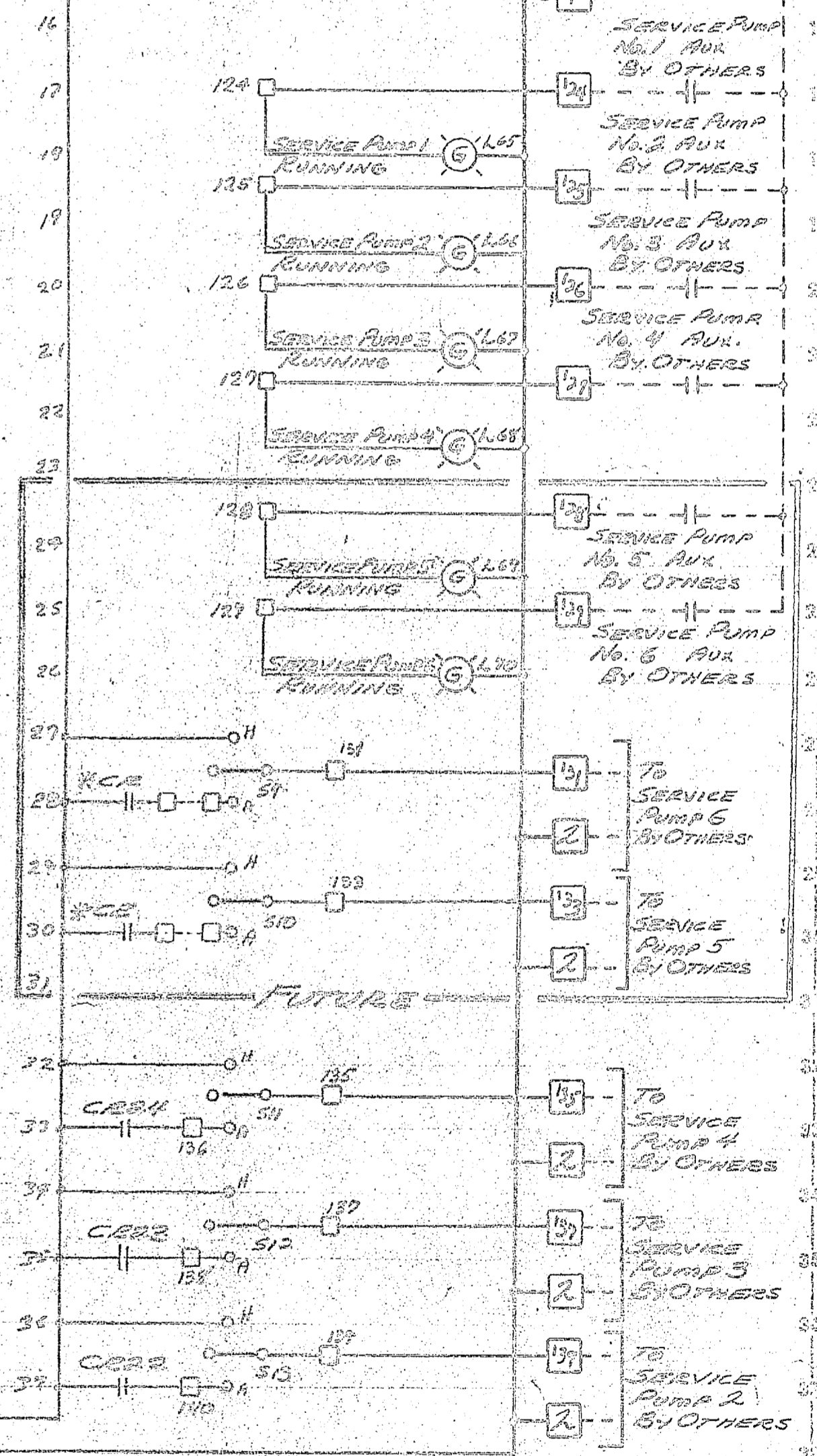
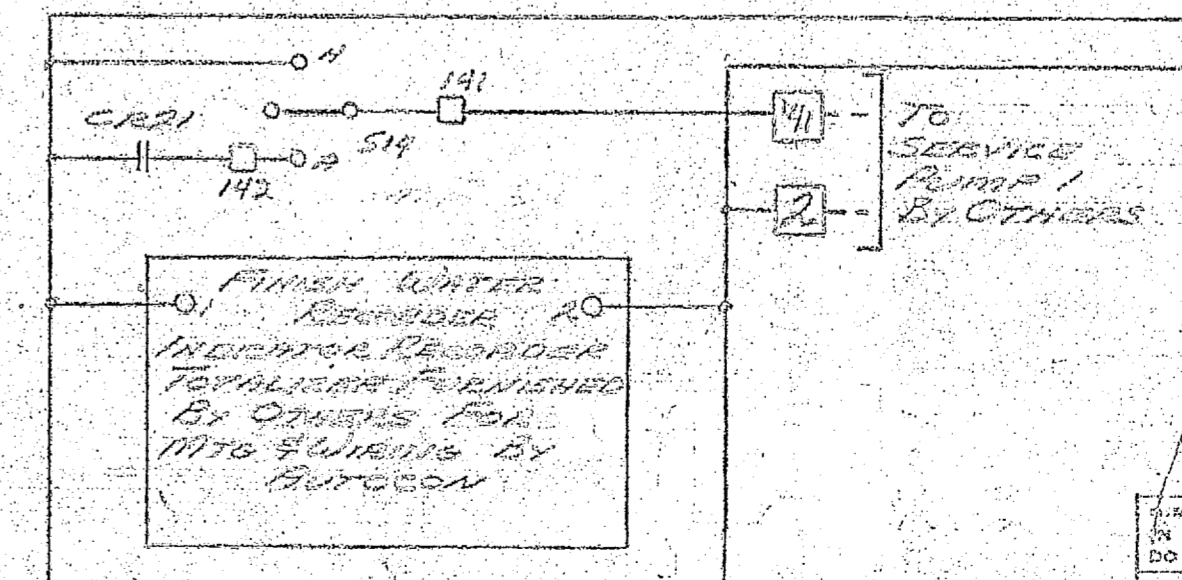
UNIT "A"
ELEVATED TANK TRANSMITTER

NOTES:
1. ENCLOSURE NEMA 1 PER DWG. D134396-2
2. HYDRAULIC LAYOUT PER DWG. D134396-1
3. SYMBOL SHEET PER 3-0001

NOTES:
1. ENCLOSURE NEMA 1 PER DWG. D134396-2
2. HYDRAULIC LAYOUT PER DWG. D134396-1
3. SYMBOL SHEET PER 3-0001

RECEIVED POT ADJ. BY HELMT
ADJUST POT TO OBTAIN A TOTAL RESISTANCE
(SEE TABLE) FROM TERMS 6 TO 8 WITH N.C.
CONTACTS 1R-1, 2R-1, 3R-1, 4R-1, 5R-1, AND 6R-1
HELD OPEN

STEP	Part	TOTAL RESISTANCE TERMINALS 6-8
1	1R-1	3160 Ω
2	2R-1	1540 Ω
3	3R-1	905 Ω
4	4R-1	600 Ω
5	5R-1	440 Ω
6	6R-1	330 Ω

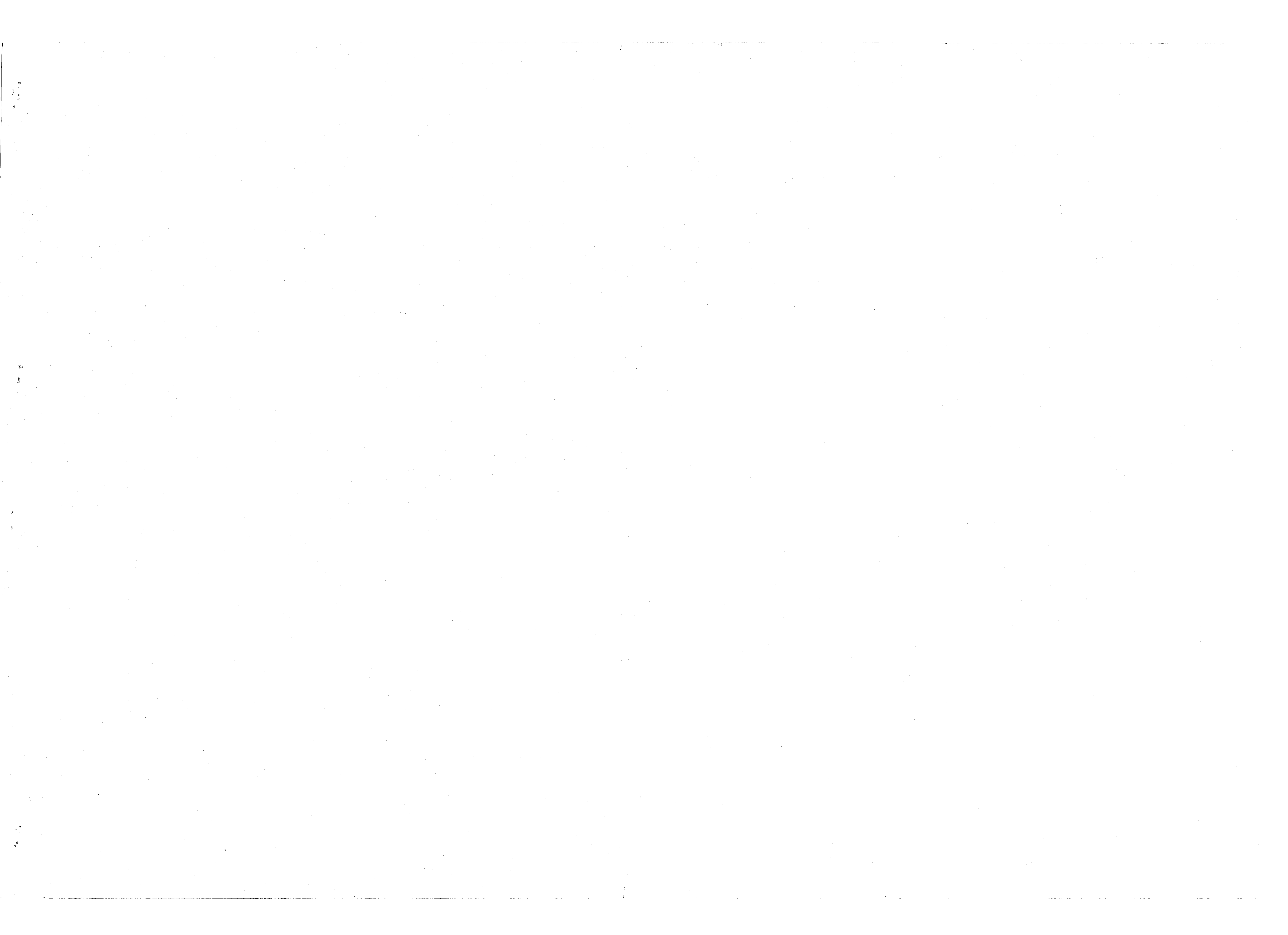


MANUFACTURE
ELEVATED TANK
TRANSMITTER

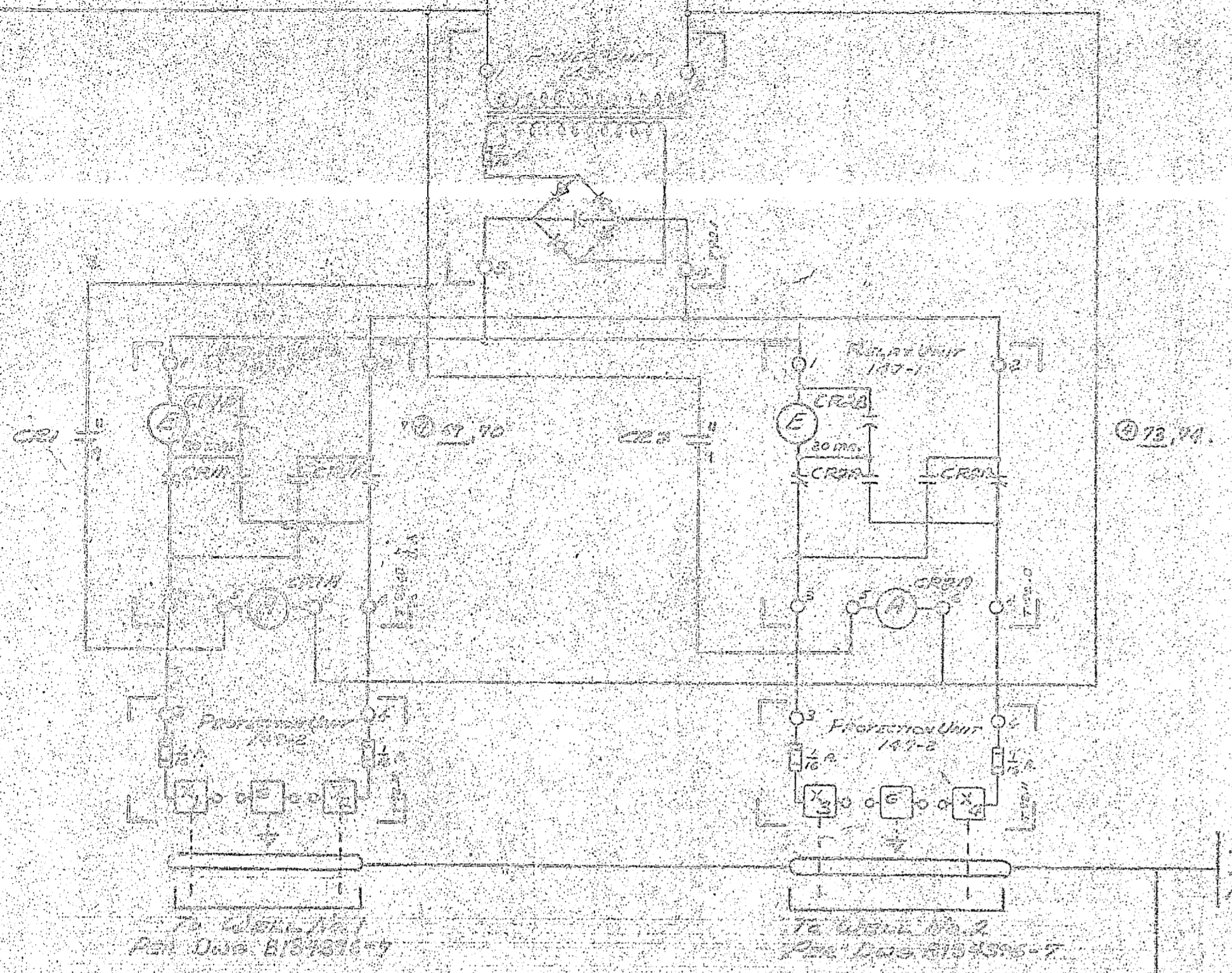
APPROVED
Subject to Meet &
Job Plans & Specifications
By
Quality Control Representative

REVISION	DATE	BY	REASON
1	12/20	WJ	ISSUED FOR FABRICATION
2	1/10	WJ	REVISED FOR MANUFACTURE

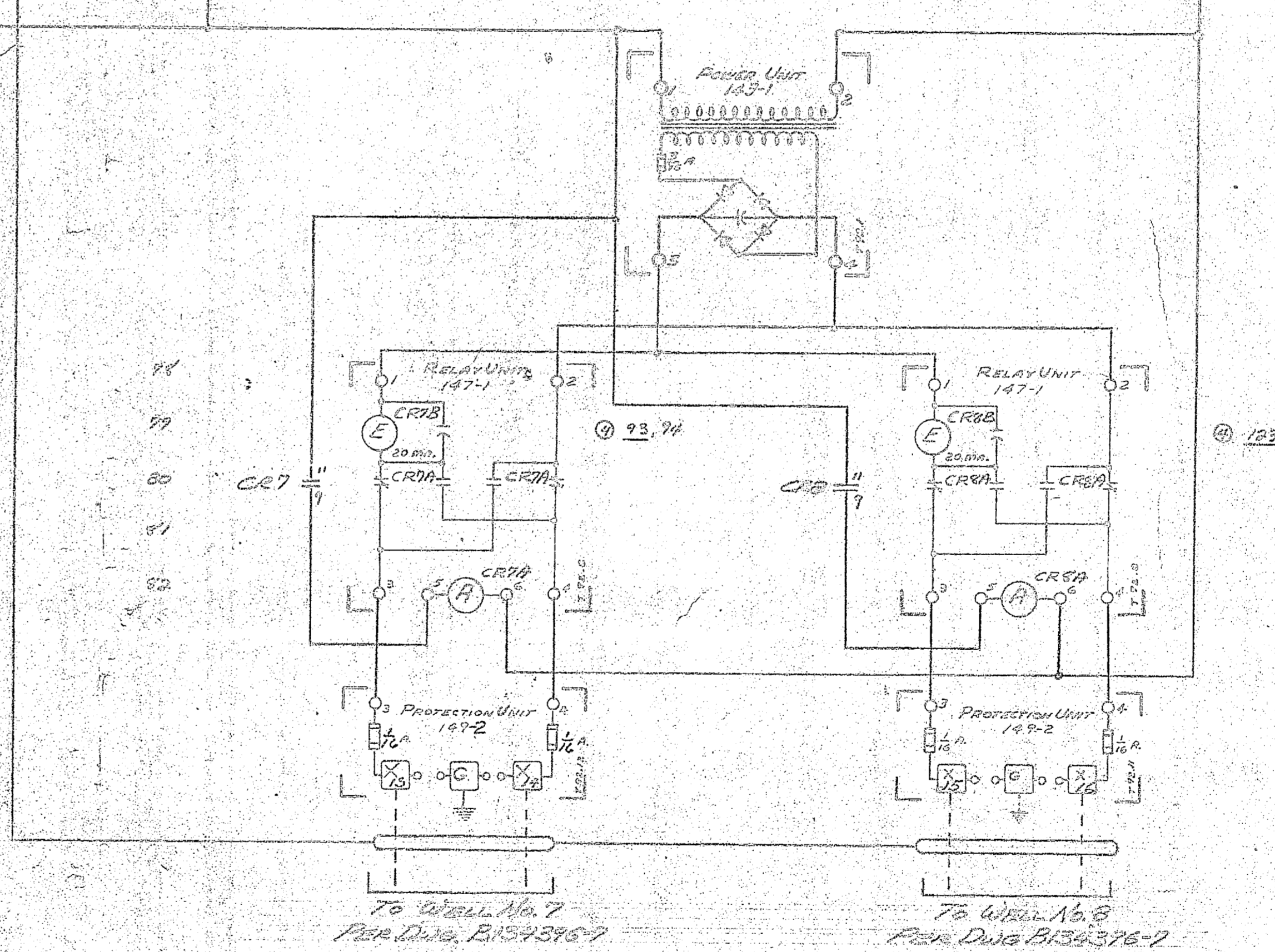
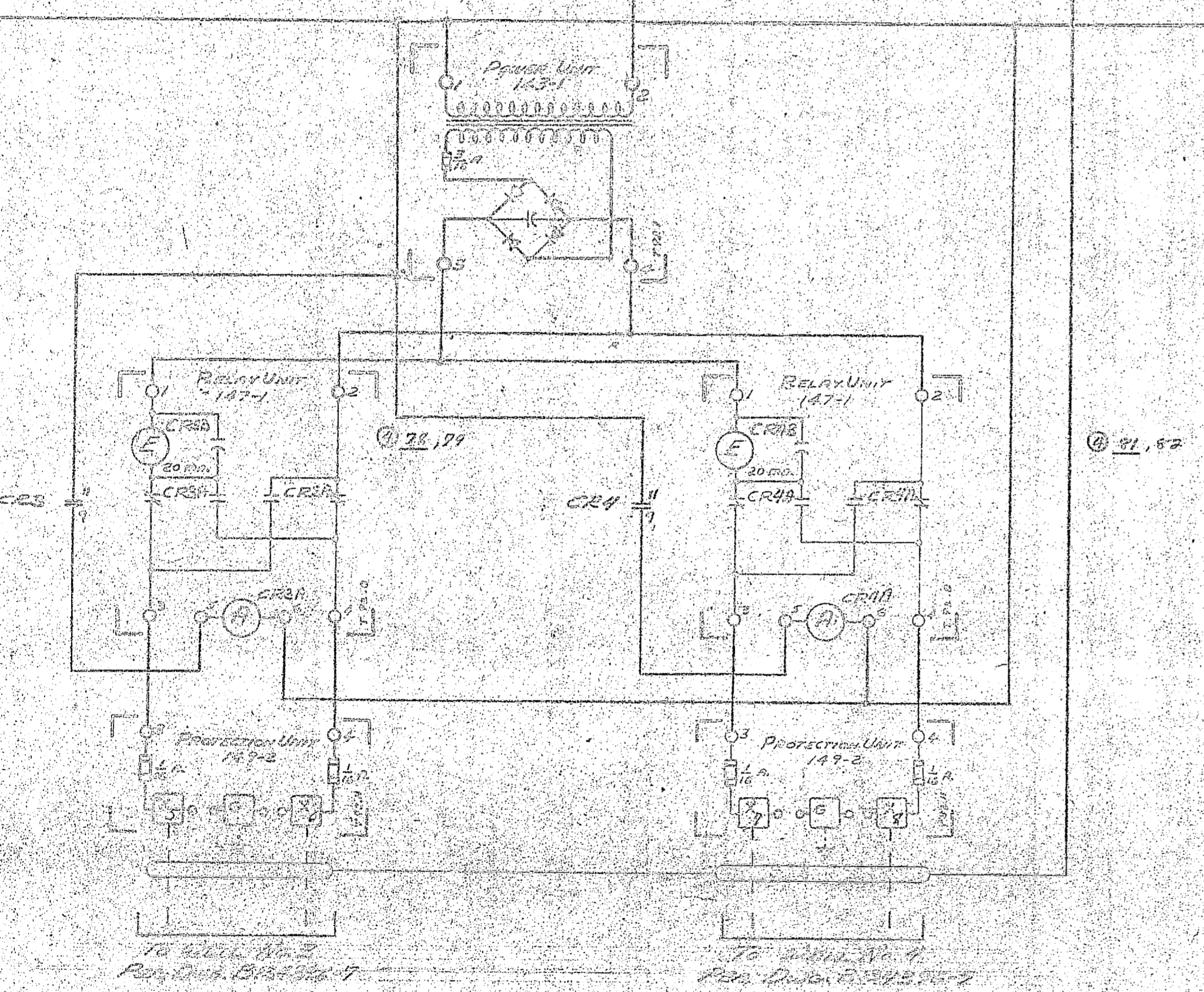
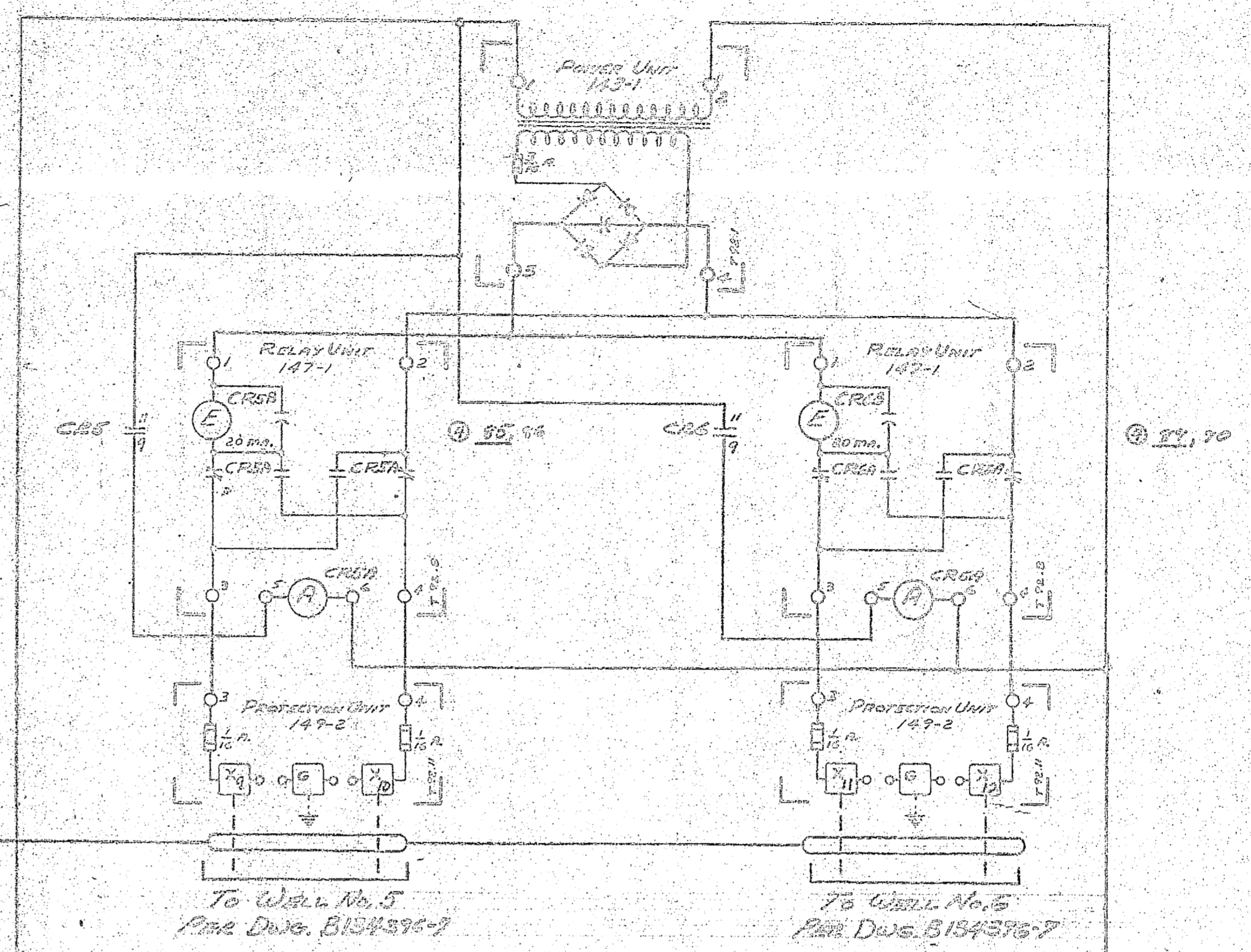
D134396-3



Flex. Disconnect Power
To Dist. D134316-7



1170 TRANSFORMATION
LINES: 11500 V. TO 11500 V.
TO OTHERS THROUGH REMOTE RELAYERS
OR OTHERS



UNIT D - COMP 4A

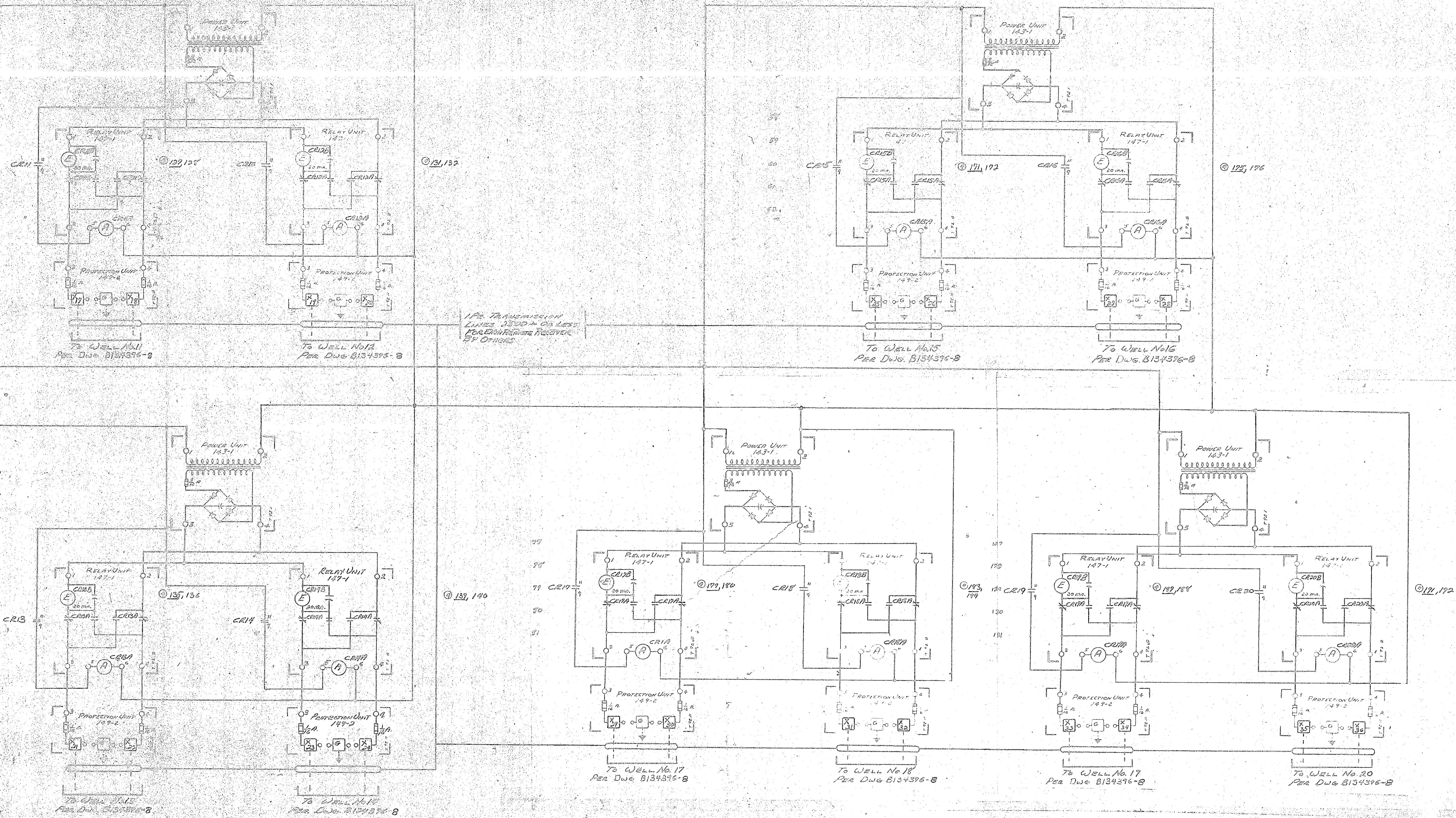
Date 4 mo-7
APPROVED
Subject To Meet Of
Job Specs & Specifications
By
Quality Control Representative

REVISIONS	DATE	BY
1	4 mo-7	M.S.

RAYCOON
14700 INDUSTRIAL RD. - RAYCOON, MO. 63071
TITLE: Unit D - Custom Report Type 147
APPROVED: M.S.
PROJECT NAME: Comp. 4A
SCALE: 1:1
SHEET NO.: 134396-5
OF 10



FOR CONNECTIONS REFER TO THIS DRAWING



1/2" TRANSMISSION LINES 3500+ OH LEAST FOR EACH RELAY AND RECEIVER BY OTHERS

* NOTE: ALL EQUIPMENT SHOWN ON THIS DRAWING IS FUTURE

Date: 1/11/57
 APPROVED
 Subject: Project Of
 Job Plans & Specifications
 By: [Signature]
 Quality Control Representative

APPROVED BY: [Signature]	DATE: 1/11/57	PROJECT: [Project Name]
DESIGNED BY: [Signature]	DATE: 1/11/57	SCALE: AS SHOWN
CHECKED BY: [Signature]	DATE: 1/11/57	NO. OF SHEETS: 6
DRAWN BY: [Signature]	DATE: 1/11/57	SHEET NO.: 6
PROJECT NO. B134396-6		

