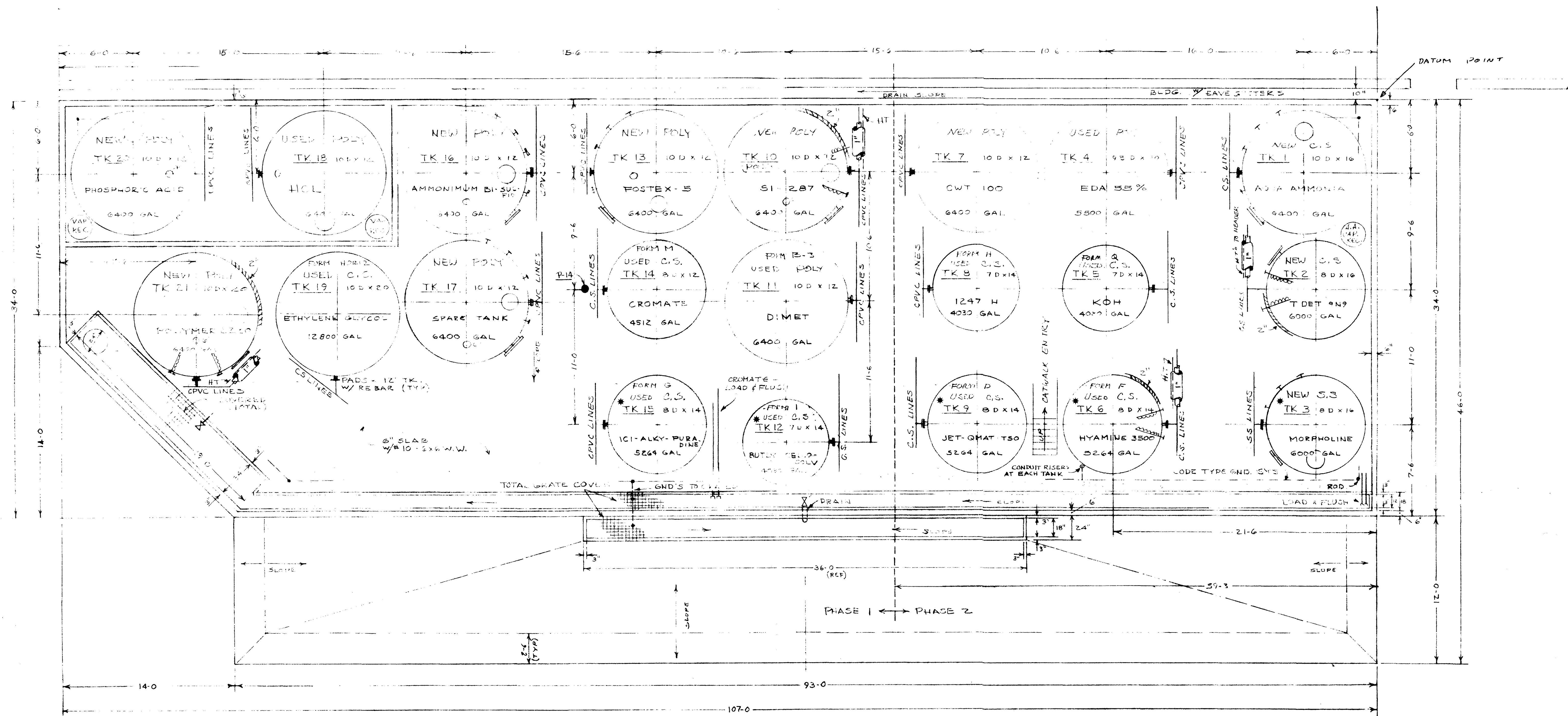


GW - 94

REPORTS

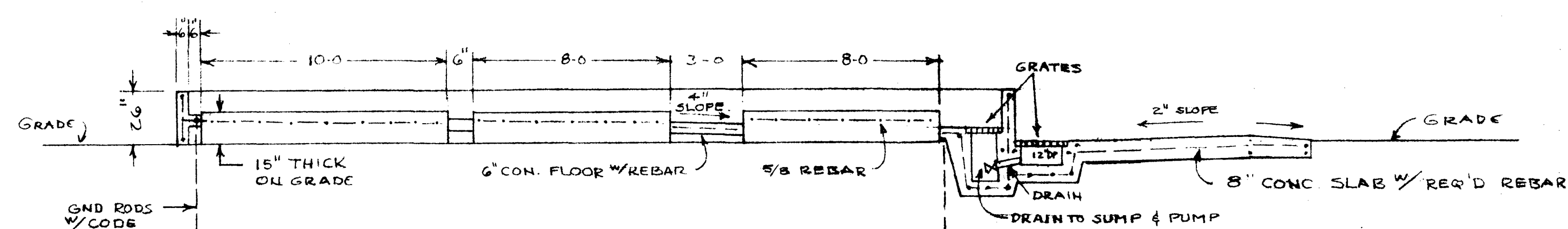
YEAR(S):

1988 MAPs



TANK / DIKE PLAN

SCALE: 1/4" = 1'

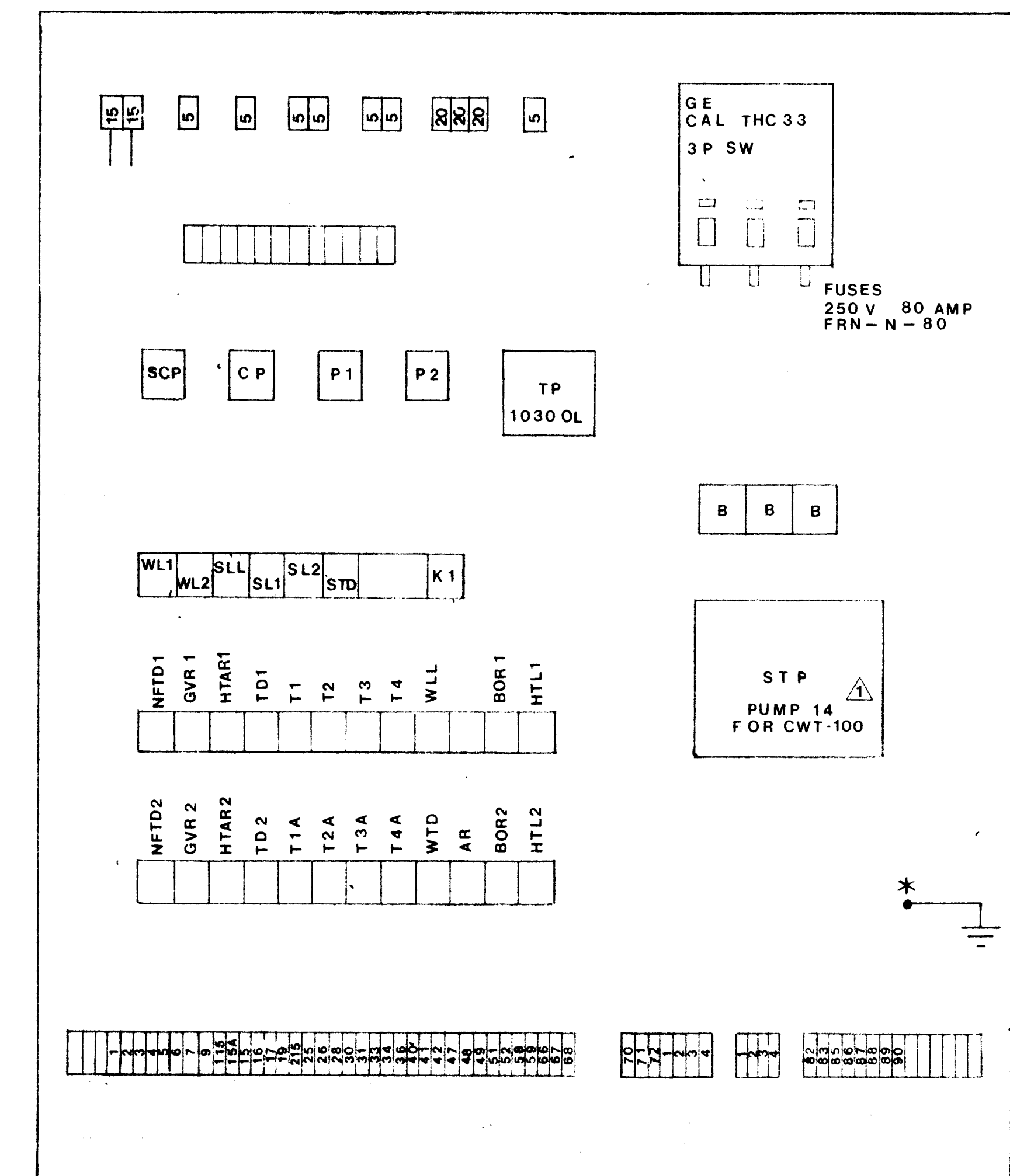
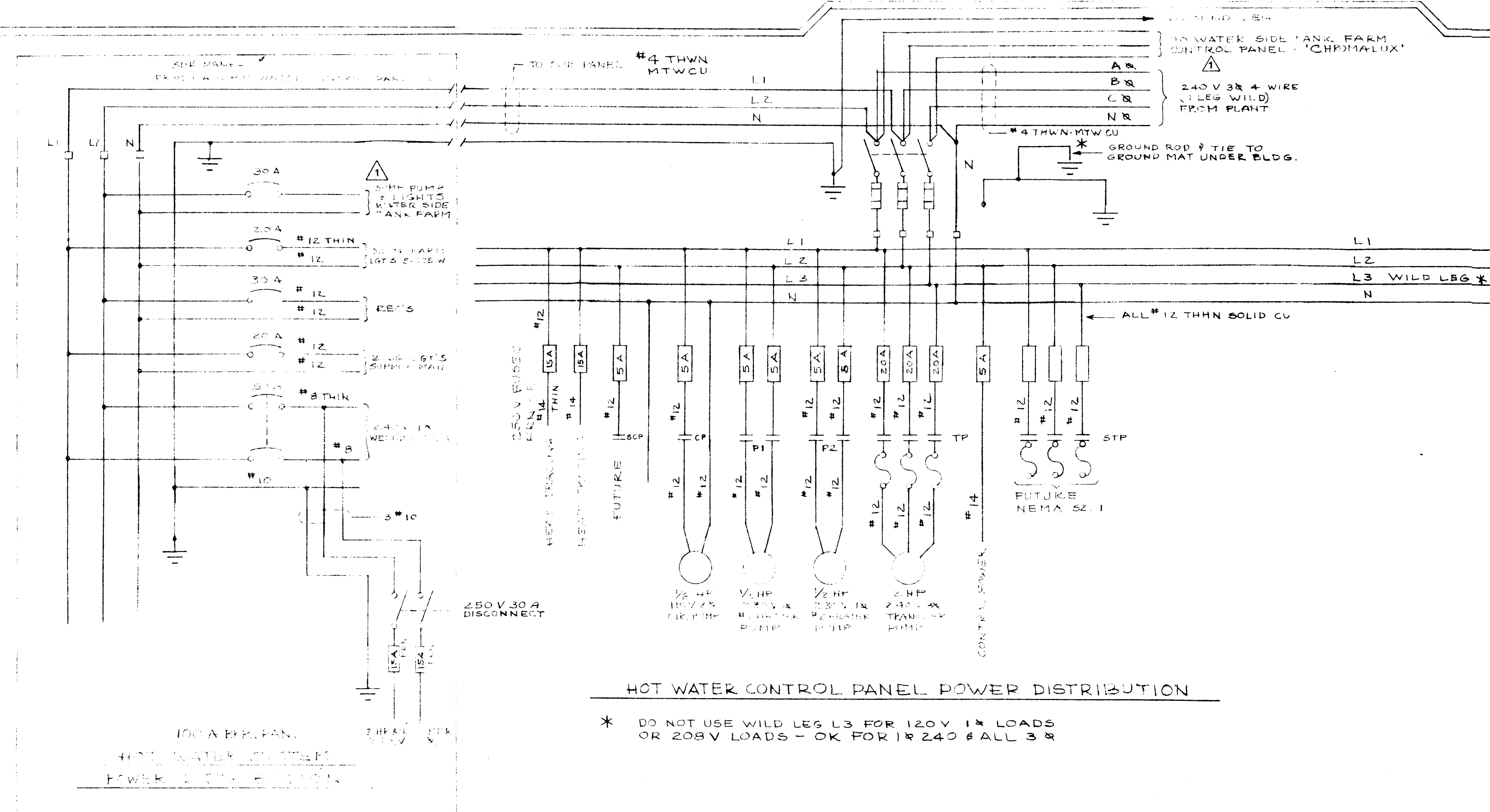


TYP. SECTION THRU LOADING DOCK

SCALE: 1/4" = 1'

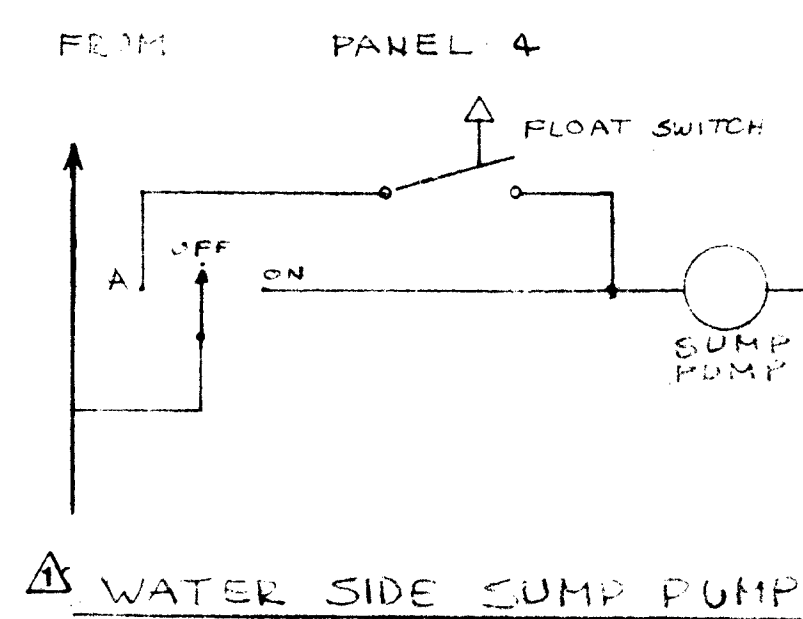
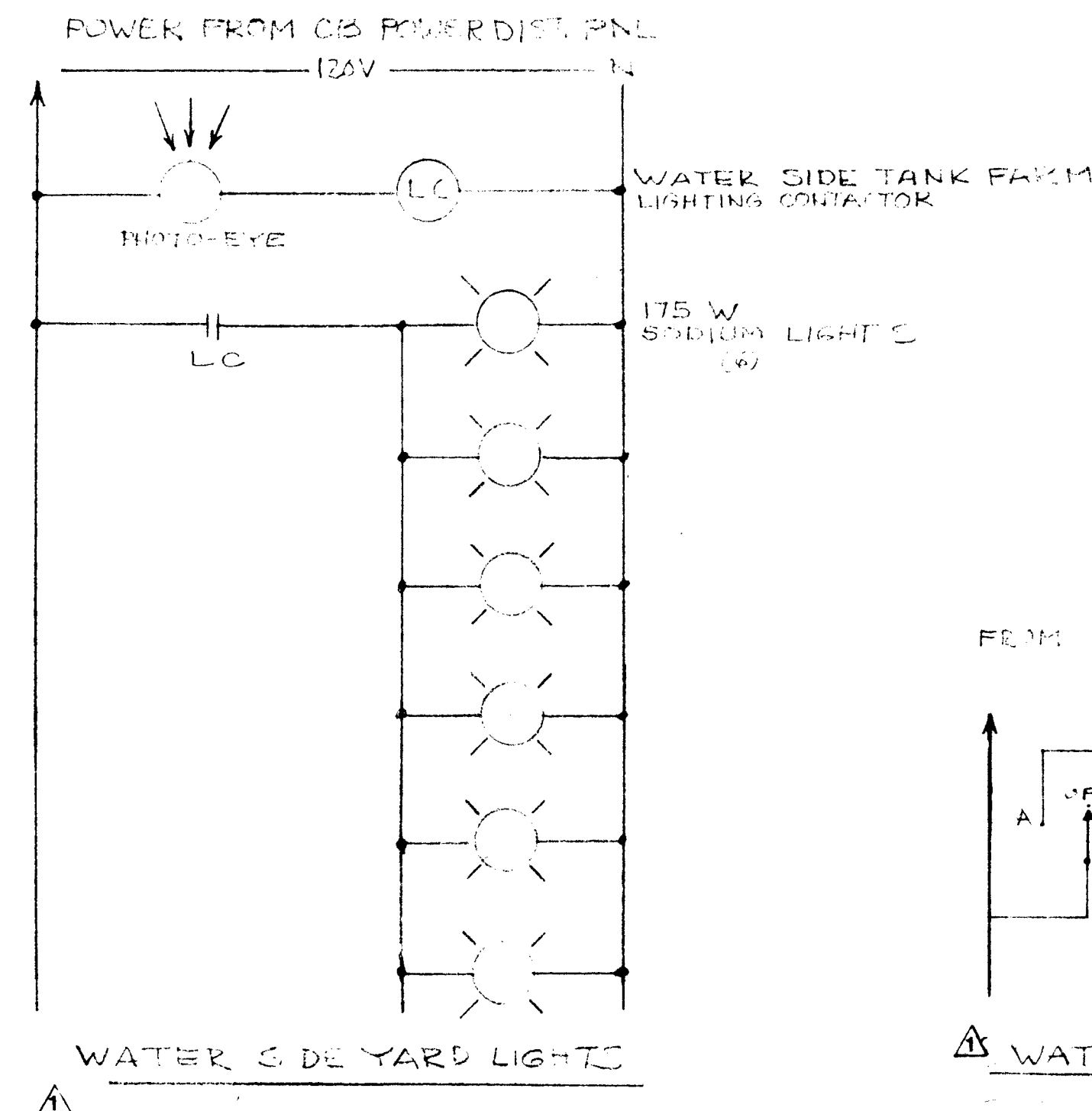
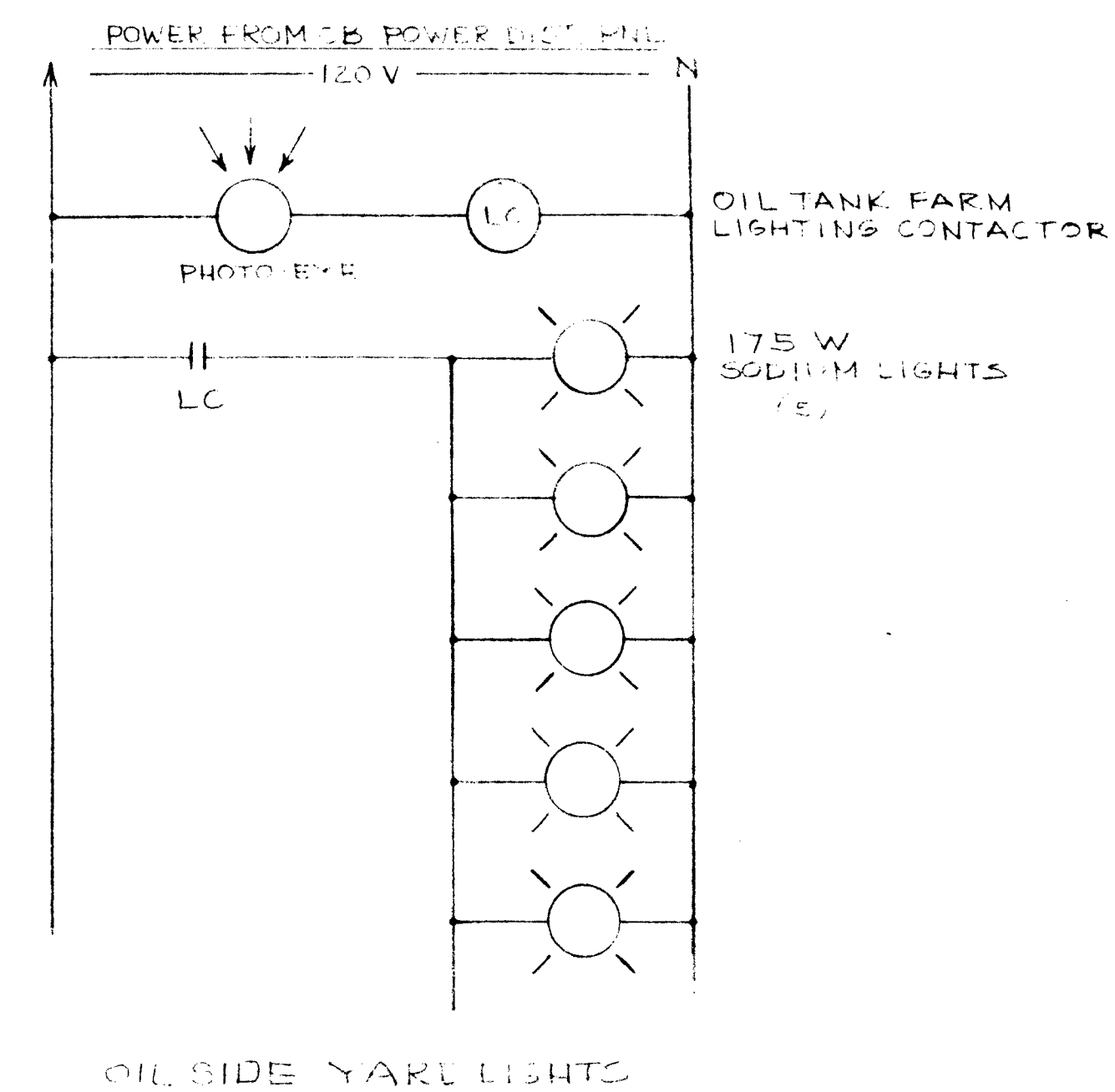
- * TANK CONTAINING FLAMMABLE FLUIDS
- PAD TOPS DATUM FOR ALL ELEVATIONS - (3" ABOVE MGD. GRADE)

REVISIONS				HOBBS WATER SIDE TANK FARM		
NO	DATE	DESCRIPTION	BY	UNICHEM, INT'L		
1	9-23-88	UPDATE	FB	HOBBS, NEW MEXICO		
				DRAWN BY	DATE	WESTERN DESIGN NO.
				FB	9-1-88	G-148
				CHECKED BY	DATE	UNICHEM DWG NO.
				LW	7/13-88	
				SCALE	REV. NO.	SHEET
				NOTED	1	OF 1



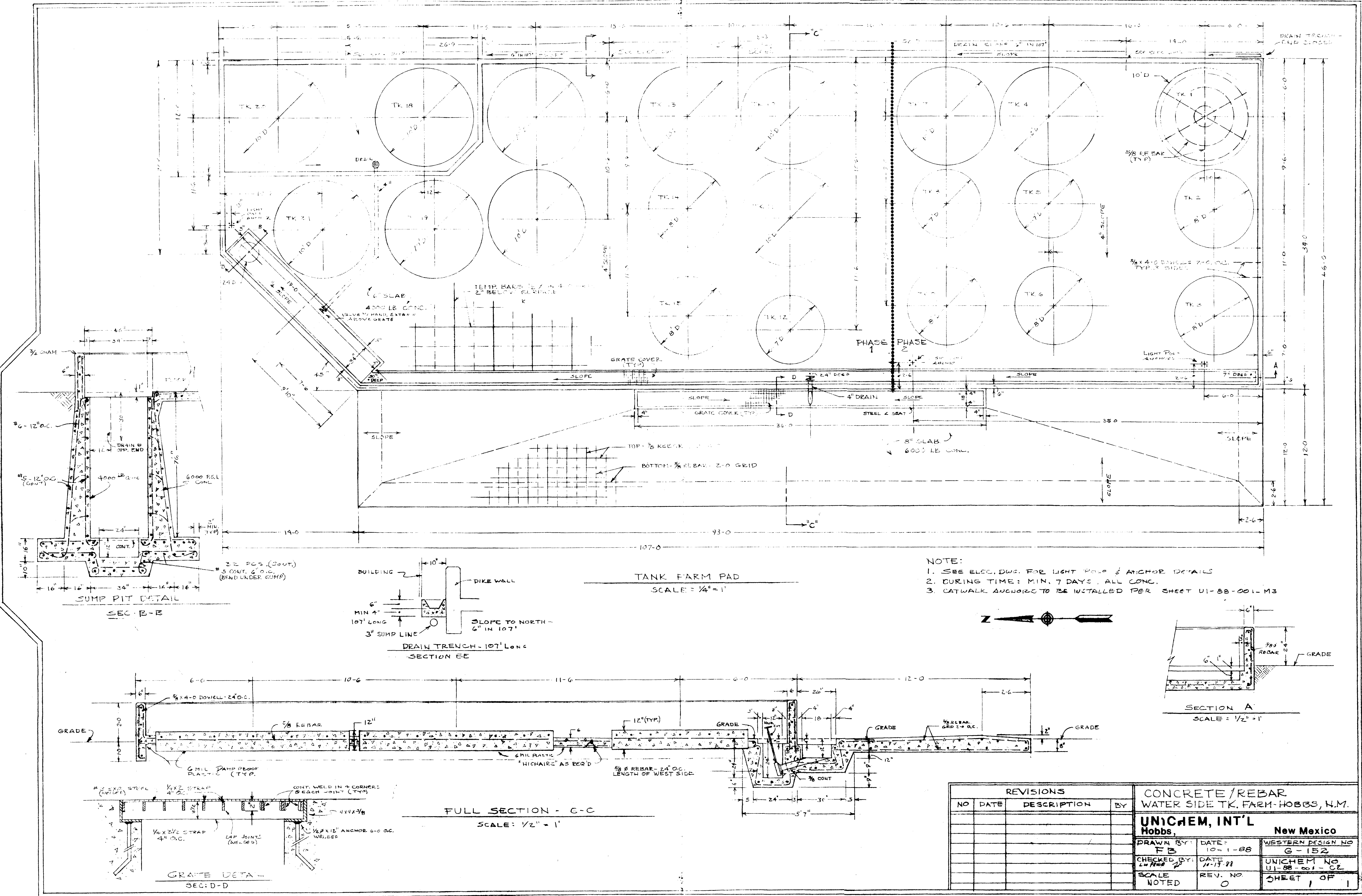
- TP (HWTP) - HOT WATER TRANSFER PUMP STARTER - LINE 42
P1 (HPS1) - HEATER PUMP #1 STARTER - LINE 15
P2 (HPS2) - HEATER PUMP #2 STARTER - LINE 15
CP (HWCP) - HOT WATER CIRC. PUMP STARTER - LINE 39
SCP (HSCP) - HOT SOLVENT CIRC. PUMP STARTER - LINE 52
STP (HSTP) - HOT SOLVENT TRANSFER PUMP STARTER - 55
3P SW - 100A 3P 250V DISCONNECT SW - LOAD BREAK
- WL1 - LINE 47
WL2 - " 49
SLL - " 57
SL1 - " 60
SL2 - " 62
STD - " 56
K1 - " 1
NFTD1 - " 5
GVR1 - " 6
HTAR1 - " 9
TD1 - " 10
T1 - " 28
T2 - " 31
T3 - " 34
T4 - " 37
WLL - " 44
- BOR1 - LINE (SEE HEATER #1 CONTROL)
HTL1 - " 12
NFTO2 - " 17
GVR2 - " 18
HTAR2 - " 21
TD2 - " 22
T1A - " 28
T2A - " 31
T3A - " 34
T4A - " 37
WTD - " 43
AR - " 65
BOR2 - " SEE HEATER #2 CONTROL
HTL2 - " 24
- USED FOR 24V CONTACT CIRCUITS

* FIBER GLASS PANEL REQUIRES GROUND BOND JUMPER ON ALL CONDUIT AND METER BACKPLATE.



AS BUILT

REVISIONS				Hot Water Heating System Hobbs, NM Plant	
NO	DATE	DESCRIPTION	BY	UNICHEM, INT'L	
1	10-13-88	WATER CD. TK. FM. ADDED	FE. L. P.	HOBBS, NEW MEXICO	
				DRAWN BY: F. B.	DATE: 2-24-88
				CHECKED BY: L. P. H. P.	DATE: 3-4-88
				SCALE: N.A.	REV. NO. 1
				Sheet 3 of 3	
				UNICHEM DWG. NO. UI-87-001-E3	

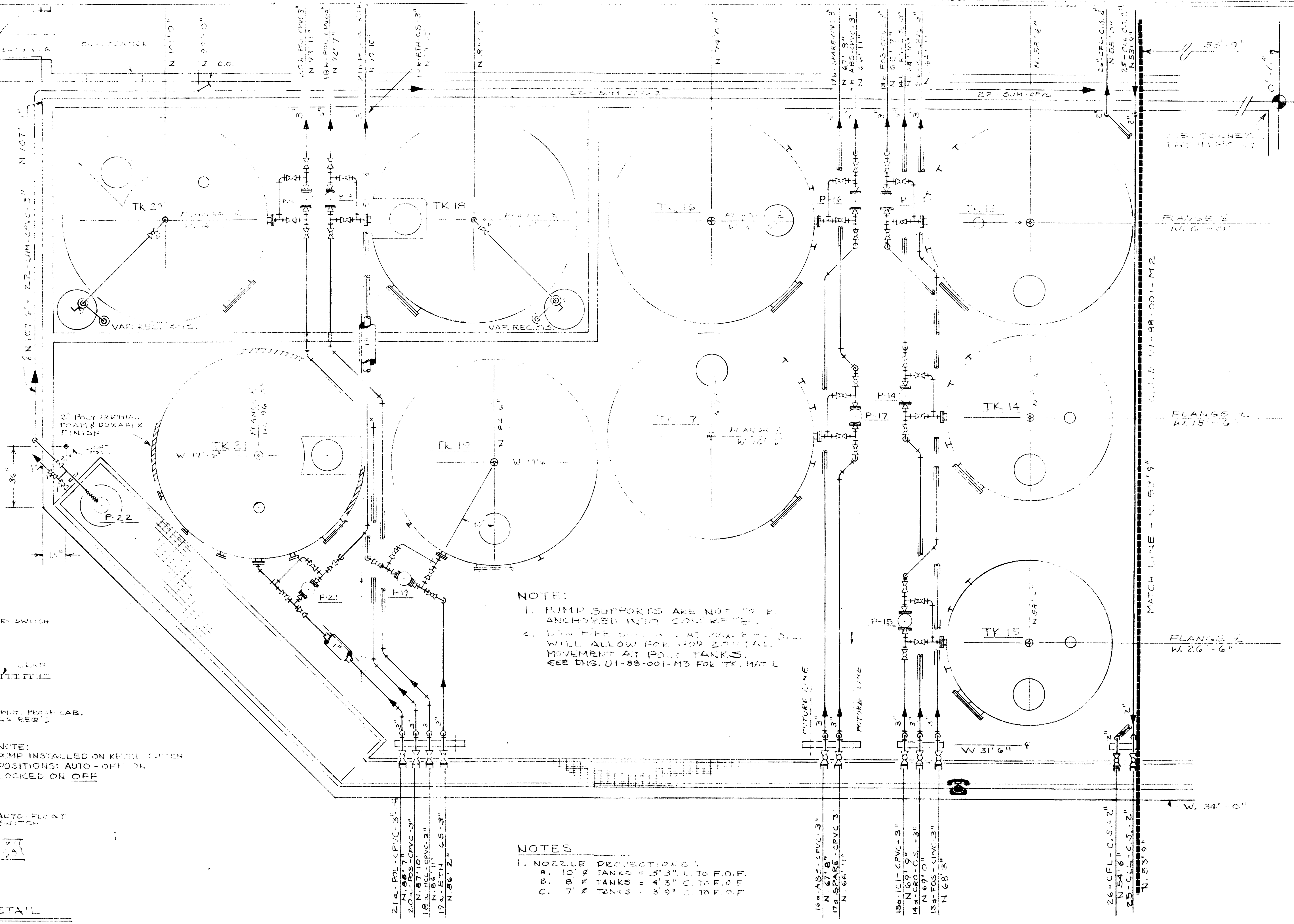
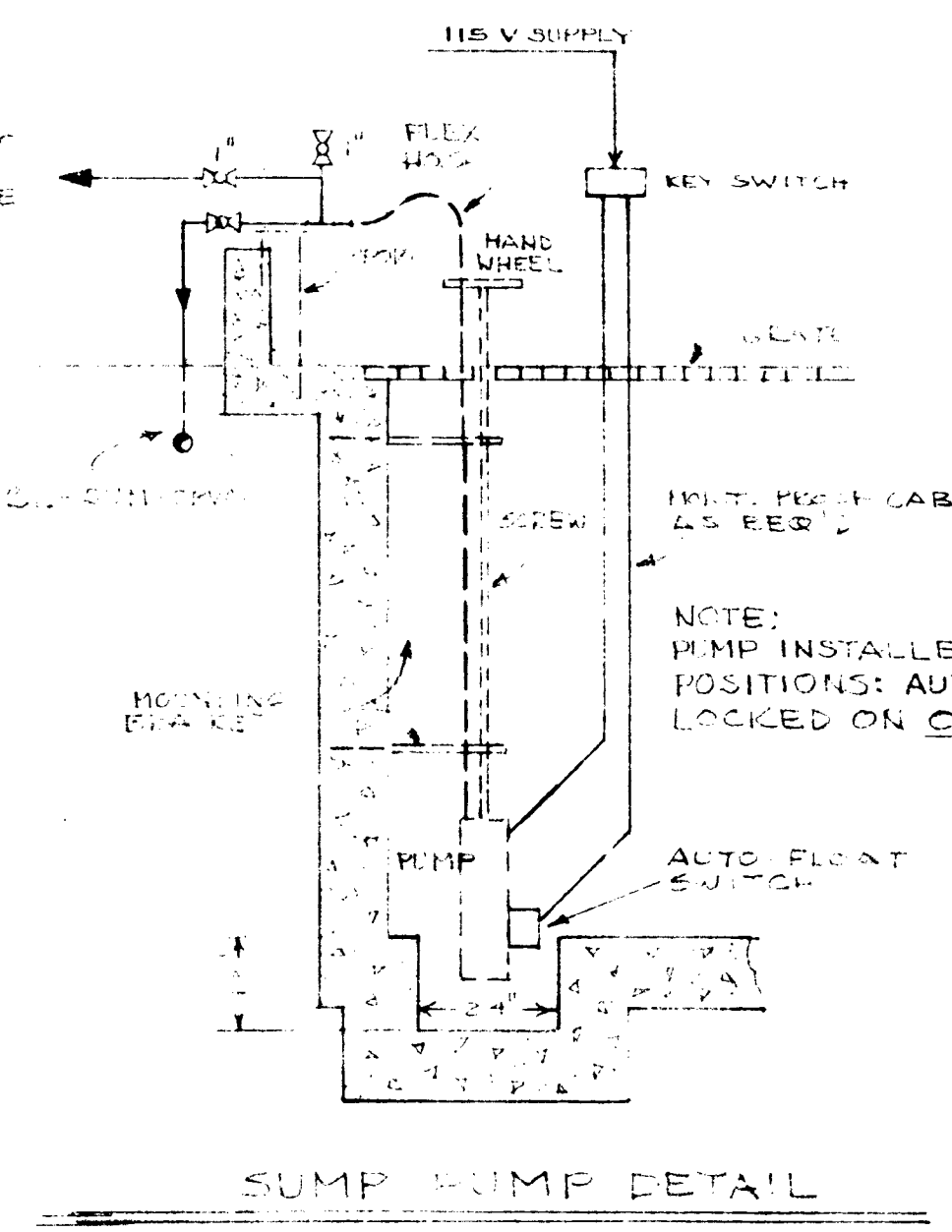
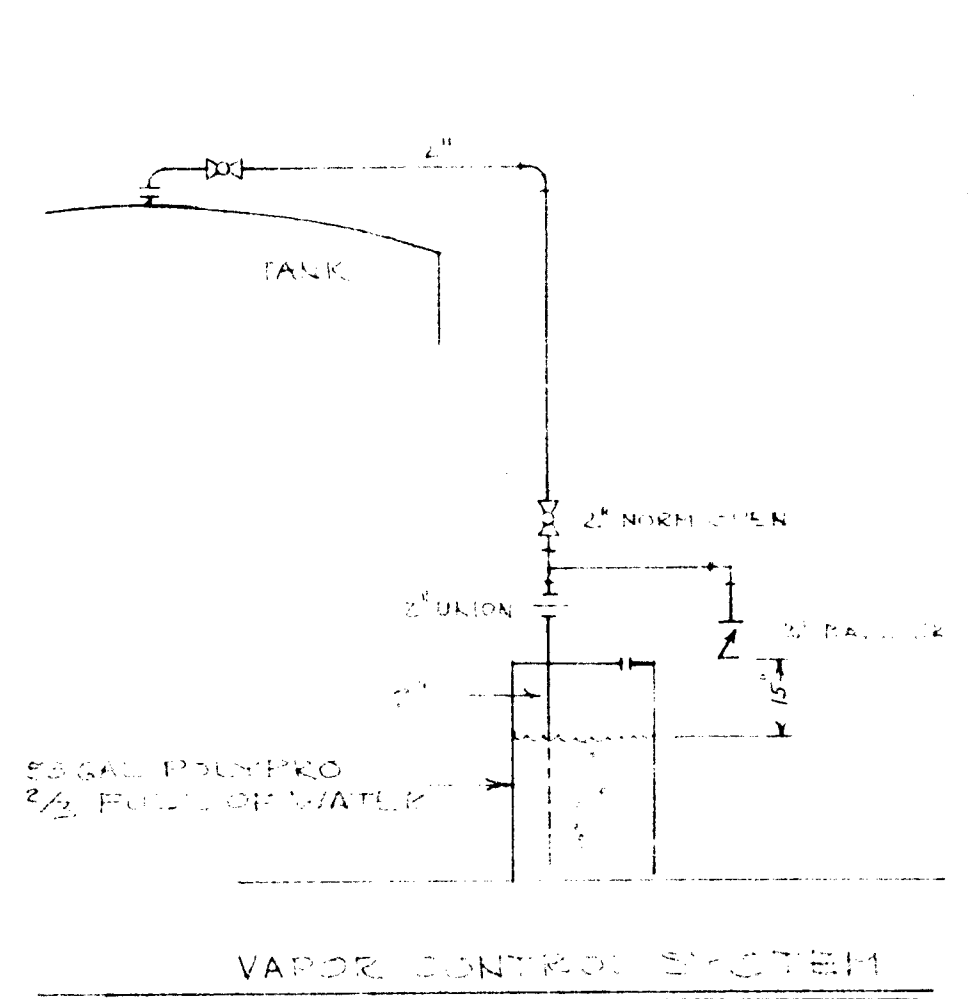
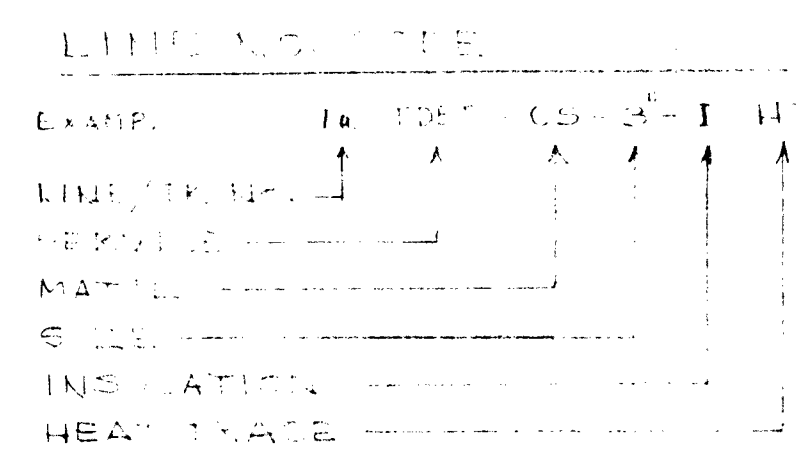


REVISIONS			
NO	DATE	DESCRIPTION	BY

CONCRETE/REBAR WATER SIDE TK. FARM-HOBBS, N.M.		
UNICHEM, INT'L		
Hobbs, New Mexico		
DRAWN BY:	DATE:	WESTERN DESIGN NO
FB	10-1-88	G-152
CHECKED BY:	DATE:	UNICHEM NO
LM	11-13-88	UI-88-001-CZ
SCALE	REV. NO	SHEET
NOTED	0	1 OF 1

PIPE/LINE SCHEDULE									
N°	SERVICE	MATERIAL	SIZE	WT.	INSUL.	HT.			
1	AT 7.5" DIA	ASA	3"	0.40					
2	T. D. 8.5"	ASA	3"	0.40					
3	N. 10.5"	ASA	3"	0.40					
4	BR 10.5"	ASA	3"	0.40					
5	K. 10.5"	ASA	3"	0.40					
6	W. 10.5"	ASA	3"	0.40					
7	C. 10.5"	ASA	3"	0.40					
8	12.47 H	12.47	3"	0.40					
9	12.47 H	12.47	3"	0.40					
10	12.47 H	12.47	3"	0.40					
11	12.47 H	12.47	3"	0.40					
12	12.47 H	12.47	3"	0.40					
13	12.47 H	12.47	3"	0.40					
14	12.47 H	12.47	3"	0.40					
15	12.47 H	12.47	3"	0.40					
16	12.47 H	12.47	3"	0.40					
17	12.47 H	12.47	3"	0.40					
18	12.47 H	12.47	3"	0.40					
19	12.47 H	12.47	3"	0.40					
20	12.47 H	12.47	3"	0.40					
21	12.47 H	12.47	3"	0.40					
22	12.47 H	12.47	3"	0.40					
23	12.47 H	12.47	3"	0.40					
24	12.47 H	12.47	3"	0.40					
25	12.47 H	12.47	3"	0.40					
26	12.47 H	12.47	3"	0.40					
27	12.47 H	12.47	3"	0.40					
28	12.47 H	12.47	3"	0.40					
29	12.47 H	12.47	3"	0.40					
30	12.47 H	12.47	3"	0.40					

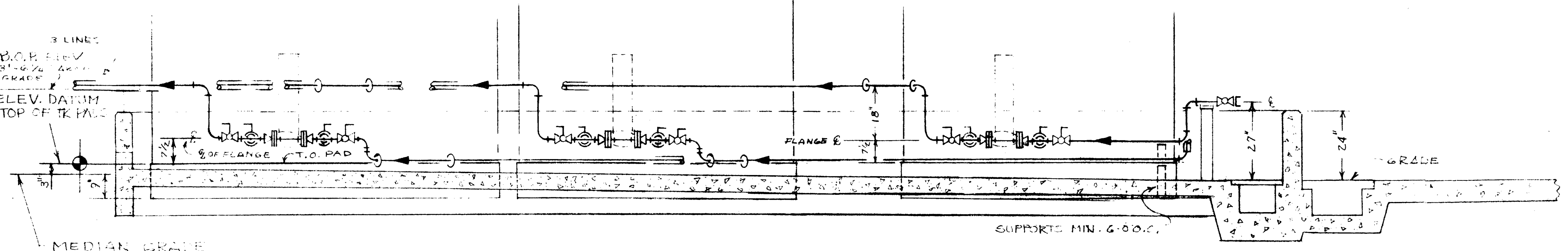
* - LINE NO. 5 1/2" DIA. 1/2" WALL THICKNESS LOADING DUCK POINT. (SEE DRAWING)
 B. THE WATER PUMP IS INSTALLED ON THE TANK.



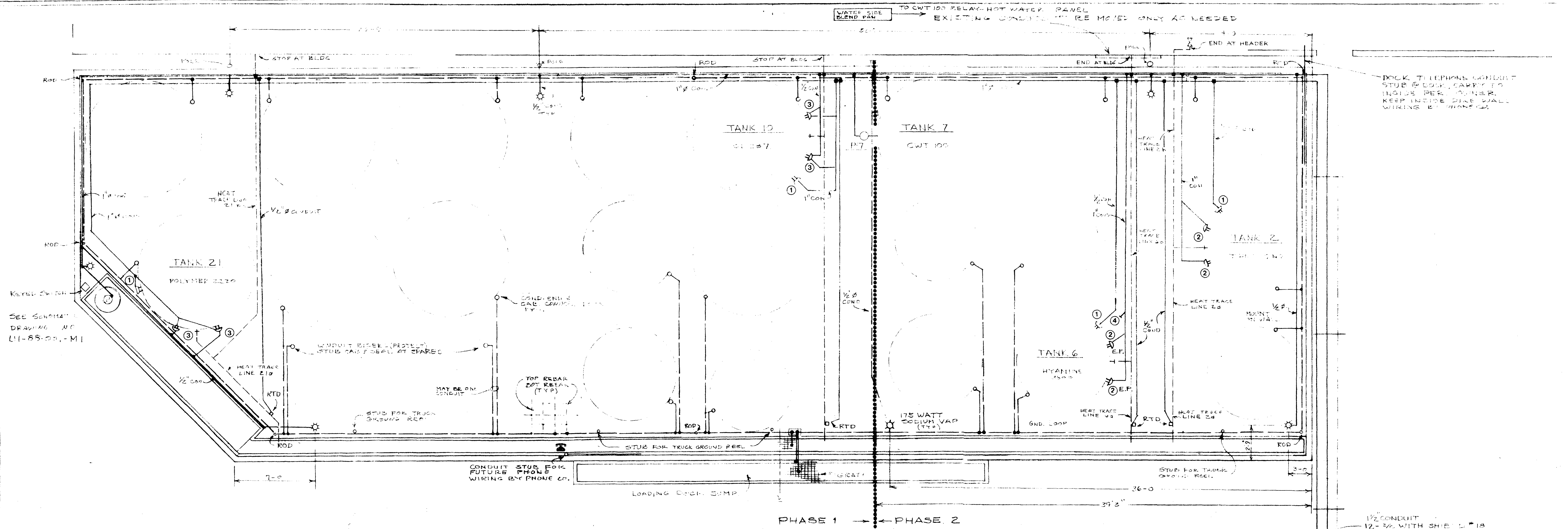
NOTE:
 1. PUMP SUPPORTS ARE NOT TO BE ANCHORED INTO CONCRETE.
 2. LOW PIPE SUPPORTS AT MAXIMUM 3' WILL ALLOW FOR HORIZONTAL MOVEMENT AT PUMP TANKS. SEE DIS. 01-88-001-M3 FOR TK. MAT'L.

NOTES:
 1. NOZZLE PROJECTIONS:
 A. 10" TANKS = 5' 3" C.T. TO F.O.F.
 B. 8" TANKS = 4' 3" C.T. TO F.O.F.
 C. 7" TANKS = 3' 9" C.T. TO F.O.F.

PIPING PLAN
 SCALE = 3/8" = 1'

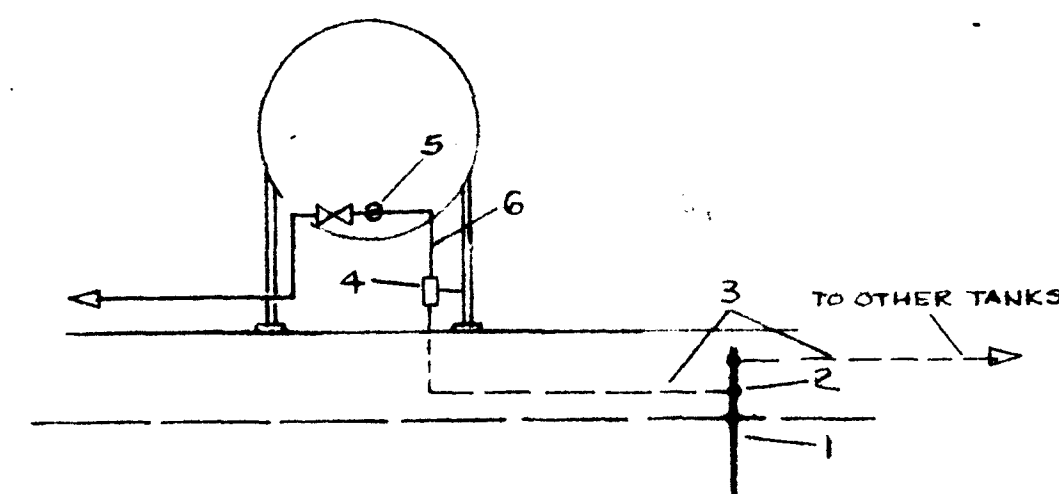


REVISIONS				WATER SIDE TANK FARM PIPING PLAN		
NO.	DATE	DESCRIPTION	BY	HOBBS, NM PART 1		
				UNICHEM, INT'L		
				Hobbs, New Mexico		
				DRAWN BY: T. 12	DATE: OCT. 6, 88	WESTERN DESIGN JOB NO. G-153
				CHECKED BY: L. W. 12	DATE: 10-13-88	UNICHEM DWG NO. 01-88-001-M1
				SCALE: NOTED	REV. NO. 0	SHEET 1 OF 1

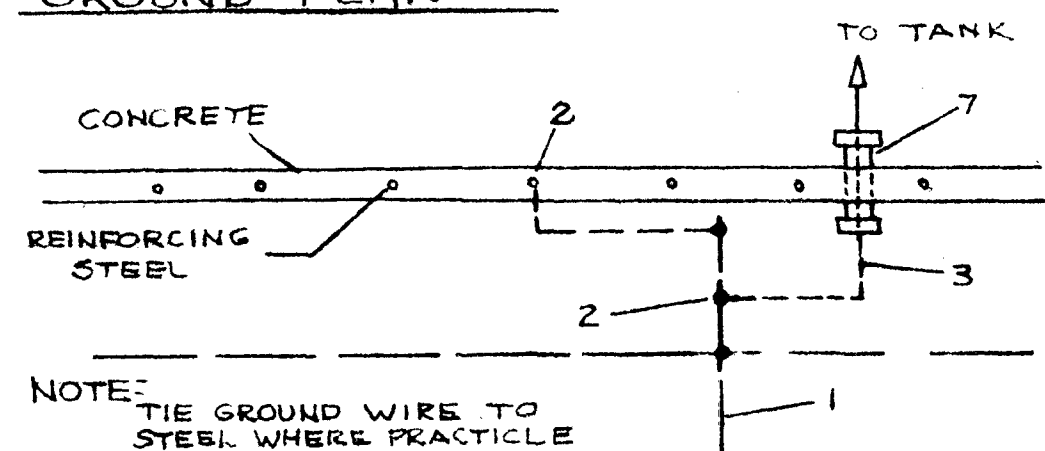


- ① - R.T.D. (CONTROL)
 ② - 3 KW HEATER W/O R.T.D.
 ③ - 3 KW HEATER W/ R.T.D. HI-LIMIT
 ④ - E.P. CONDUIT SEAL
 ☆ - 175 WATT HIPRESS SODIUM VAPOR LGTS

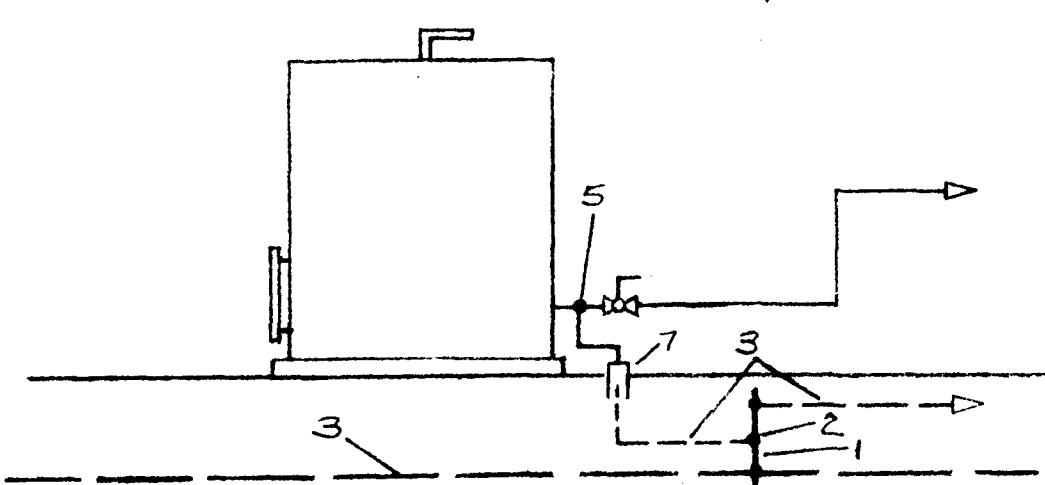
- 1/2" CONDUIT
 12-3/4" WITH SHIELD #18
 BELDEN #18 RTD'S - TANK 2
 4-1/2" WITH SHIELD #18
 BELDEN #18 RTD'S - HEAT TRACE
 2" CONDUIT
 32-#14 THHN CU - HEATER CIRCUITS
 3-#12 THHN CU - LIGHT CIRCUITS
 3-#12 THHN CU - SUMP PUMP
 12-#14 THHN CU - PIPE HEAT TRACING
 4-#12 THHN CU - CWT 100 3HP PUMP



TYPICAL HORIZONTAL TANK SUPPLEMENTAL
GROUND PLAN



TYPICAL GROUND RISER DETAIL



TYPICAL VERTICAL TANK SUPPLEMENTAL
GROUND PLAN

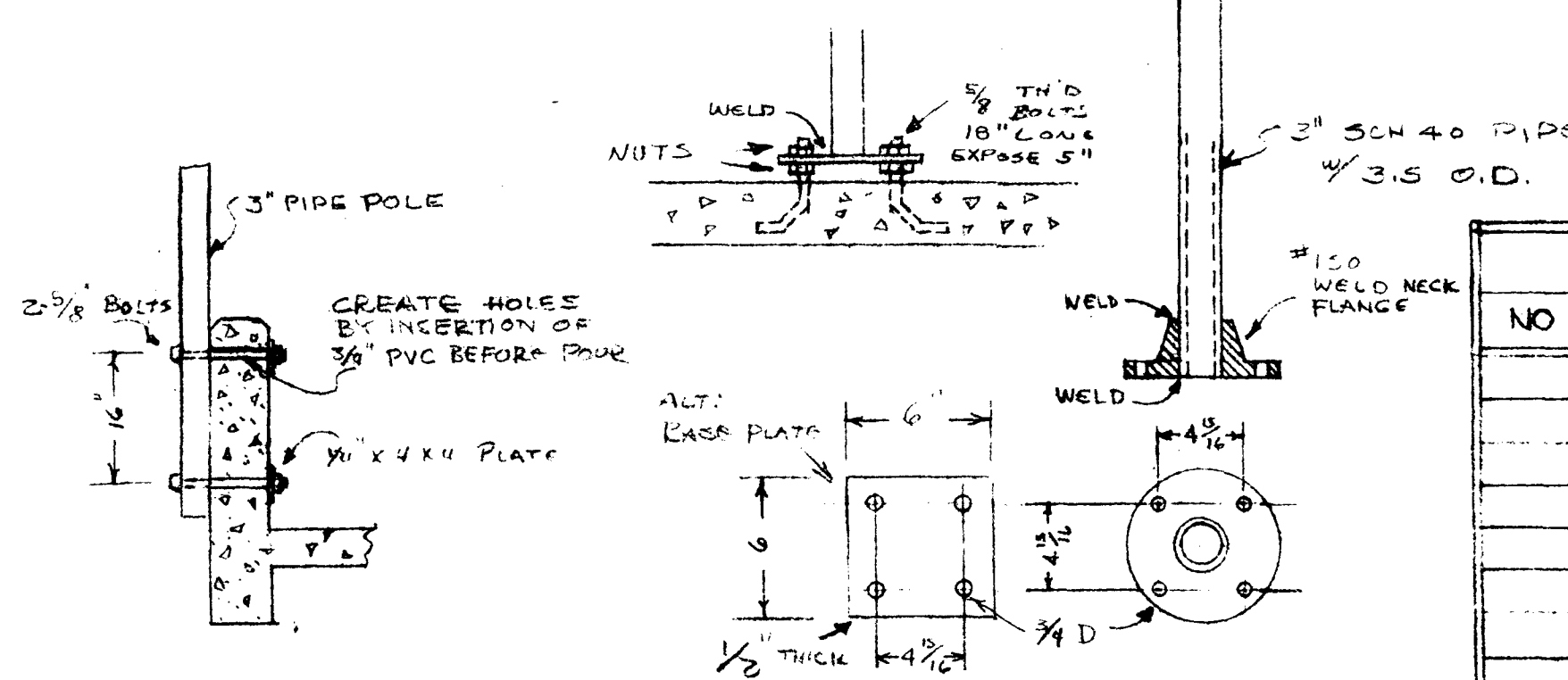
LEGEND

- 1 - GROUND ROD - 5/8" COPPER COATED
 2 - GROUND ROD CLAMP - 5/8" DIRECT
 BURIAL - BLACKBURN JAB 50 -
 1/0-8 OR EQUIV.
 3 - #6 BARE COPPER WIRE
 4 - GROUND BOND TERMINAL TO BE
 MOUNTED ON STEEL FRAME
 SUITABLE FOR COPPER CONN.
 5 - PIPE GROUND CLAMP
 6 - BOND JUMPER #6 BARE
 COPPER WIRE
 7 - 1/2" STEEL CONDUIT NIPPLE
 WITH DUSHING SEAL
 WITH SILICON

NOTE

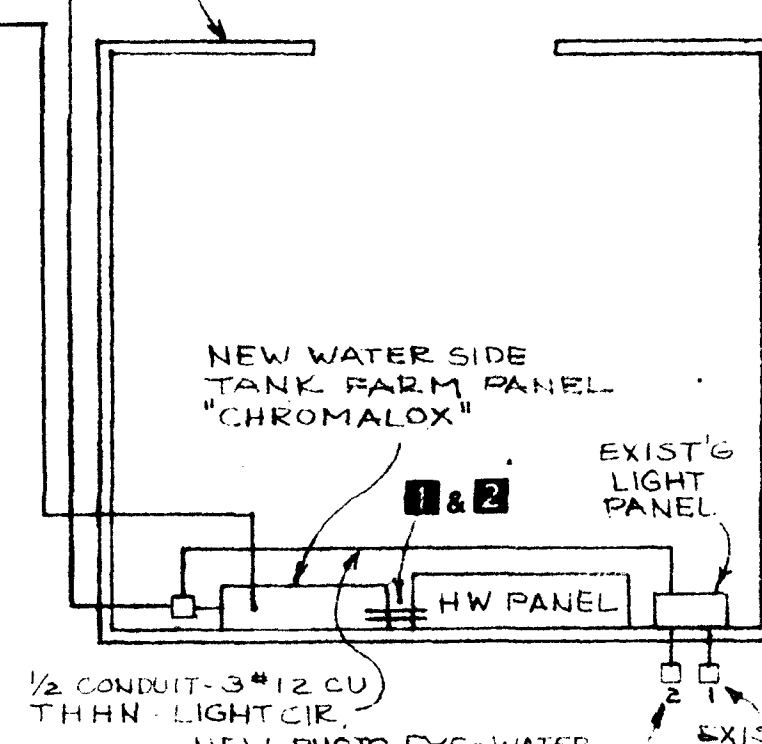
DONOT SPlice GROUND WIRES -
 MUST BE CONTINUOUS RUN AND
 TERMINATED W/ APPROVED
 TERMINATORS
 SEPARATE TERMINATORS OR
 CLAMPS MUST BE USED IF
 NOT MADE CONTINUOUS WHEN
 A NEW RUN IS DESIRED.

LIGHT POLE DETAILS

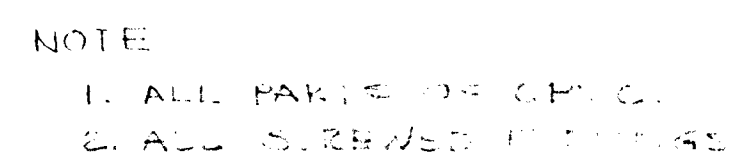


- 1 - 1/2" CONDUIT
 4-#4 THHN CM - MAIN FEED
 2 - 1" CONDUIT
 6-#14 THHN CM - CONTROL ALARMS

HOT WATER HEATER BLDG.

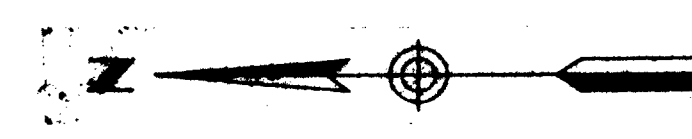


REVISIONS				ELECTRIC PLAN - WATER SIDE TK. FARM	
NO	DATE	DESCRIPTION	BY	HOBBS, NM	
				UNICHEM, INT'L	
				Hobbs	
				New Mexico	
				DRAWN BY: F B	
				DATE: 10-1-88	
				WESTERN DESIGN JOB NO. G. 154	
				CHECKED BY: DATE: 10-15-88	
				UNICHEM DWG. NO. UI-88-001-E1	
				SCALE: NOTED	
				REV. NO. 0	
				SHEET 1 OF 1	

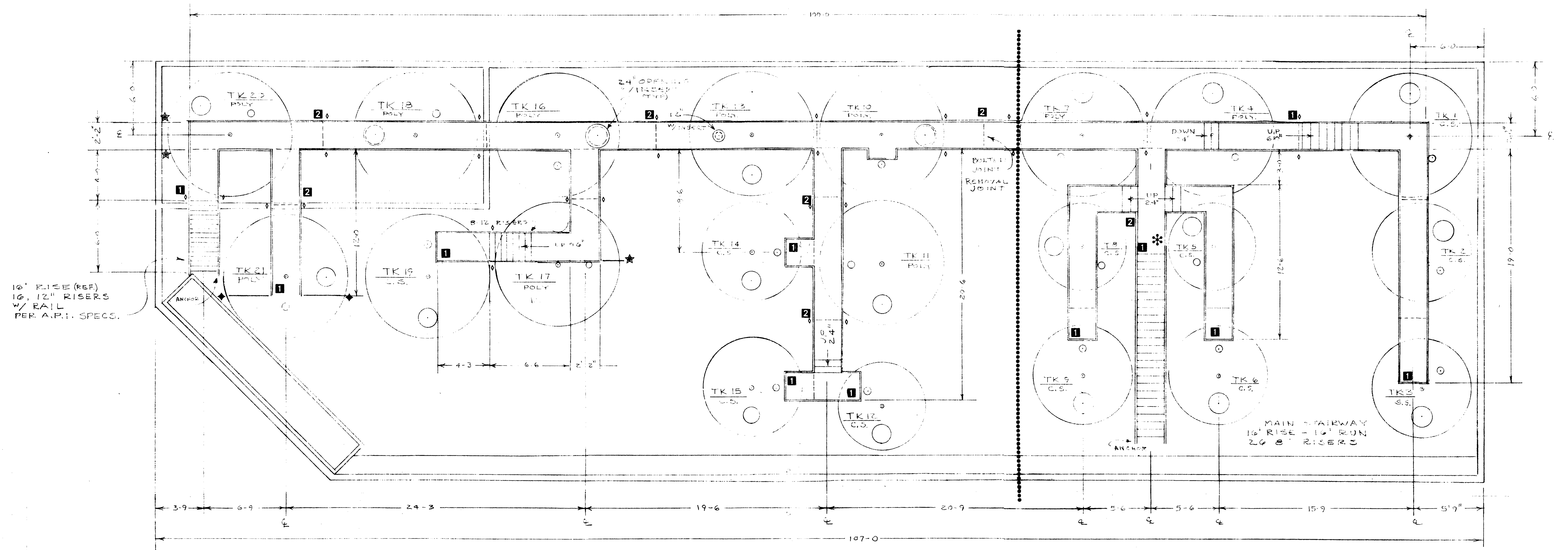


* C.S. = SCH 40 / CPVC = SCH 80

TYPICAL PUMP HOODLUF



REVISIONS				WATER SIDE TANK FARM PIPING PLAN		
NO	DATE	DESCRIPTION	BY	HOBBS, N M		PART 2
				UNICHEM, INT'L		
				Hobbs,		New Mexico
				DRAWN BY:	DATE:	WEST DES. & B'G NO
				F. D.	OCT. 6, 88	G - 159
				CHECKED BY:	DATE:	UNICHEM DWG NO
				LW Rpt 2	10-13-88	UI-88-001-M2
				SCALE	REV. NO	SHEET
				NOTED	0	OF 1

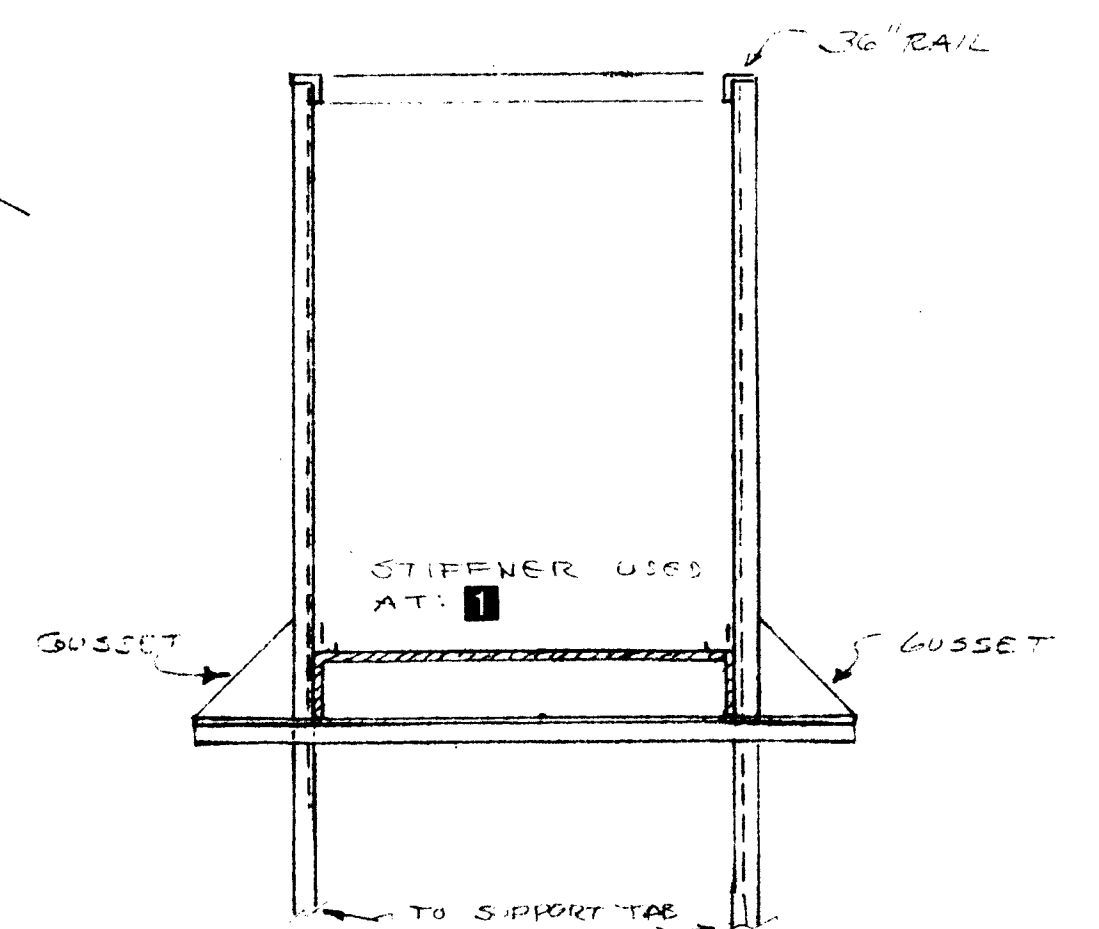
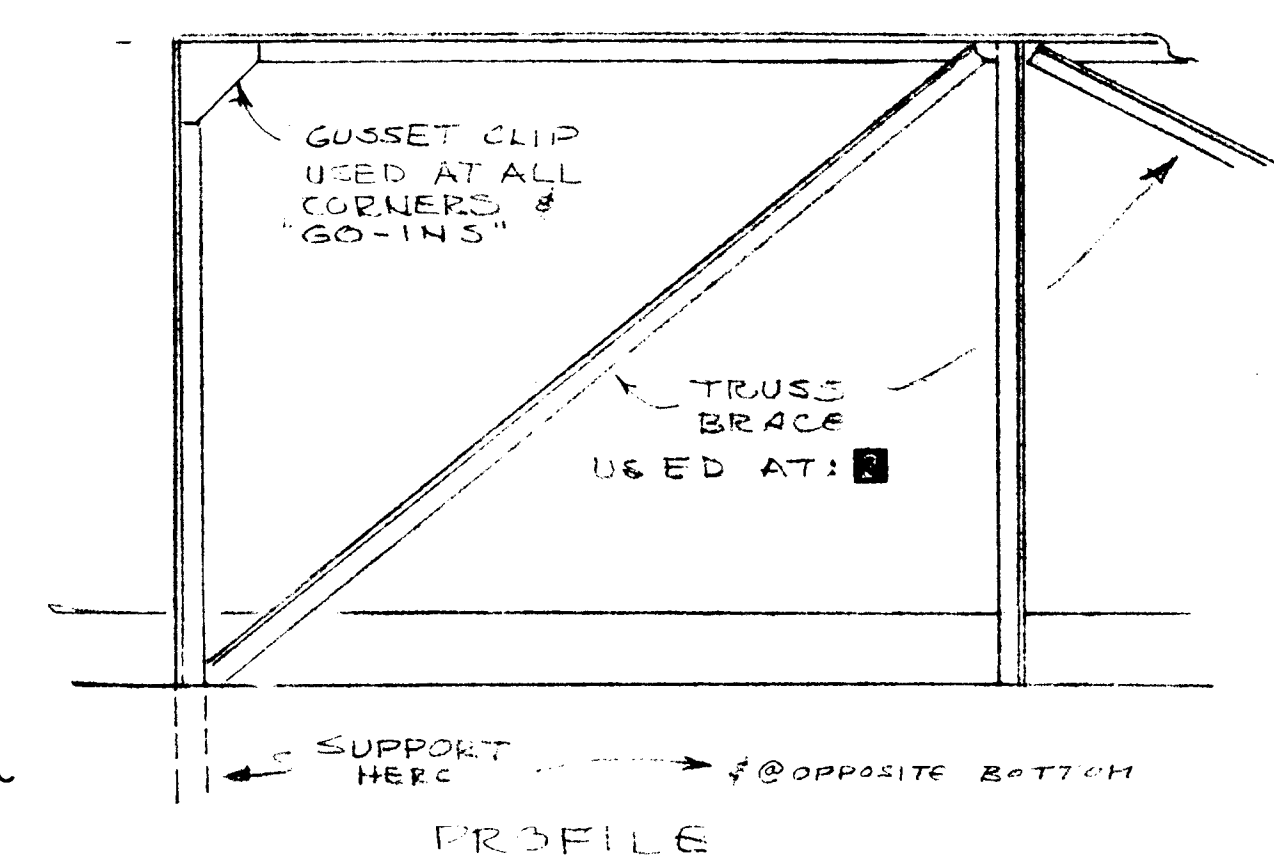
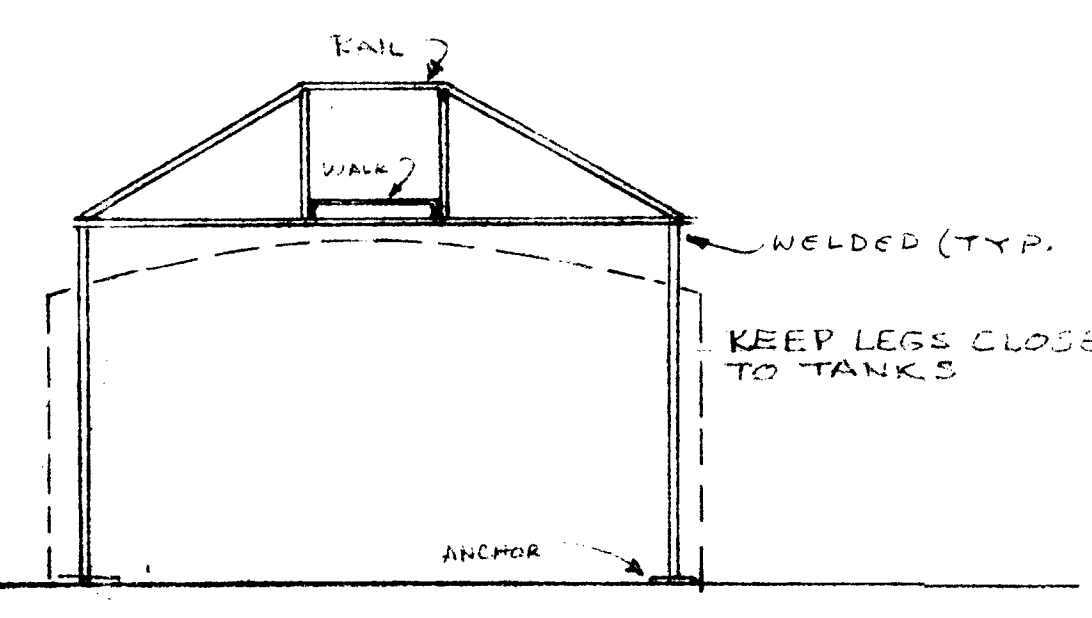
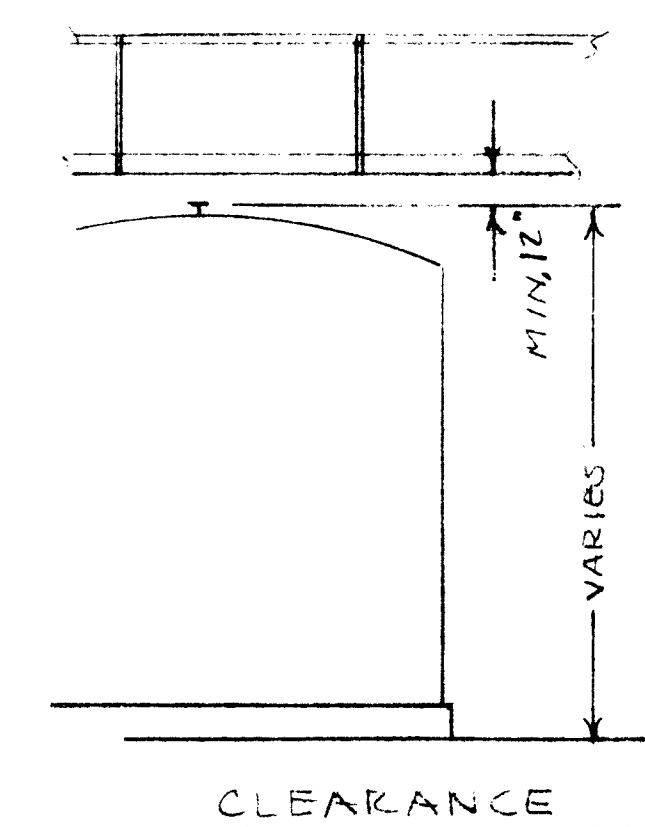
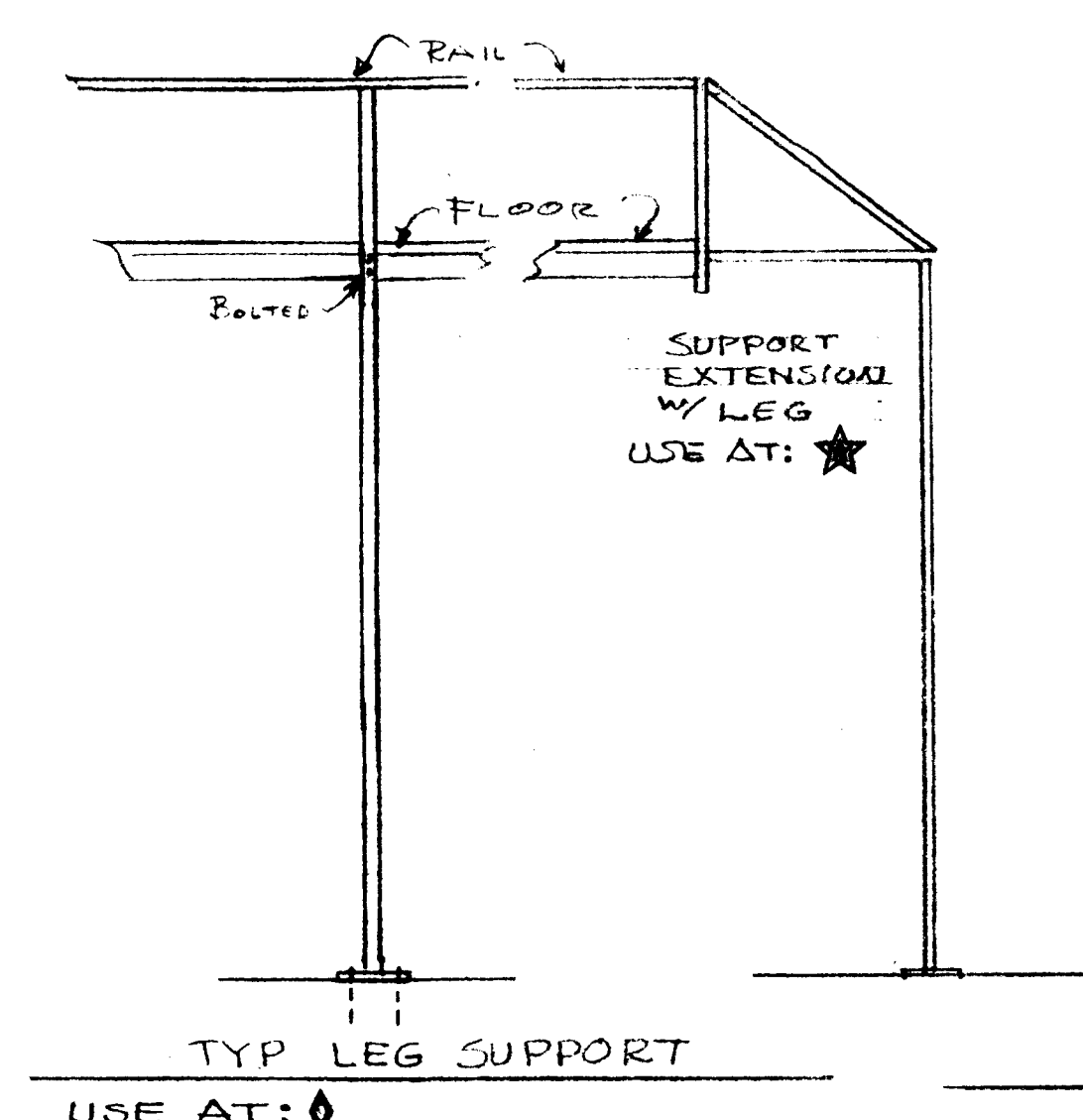
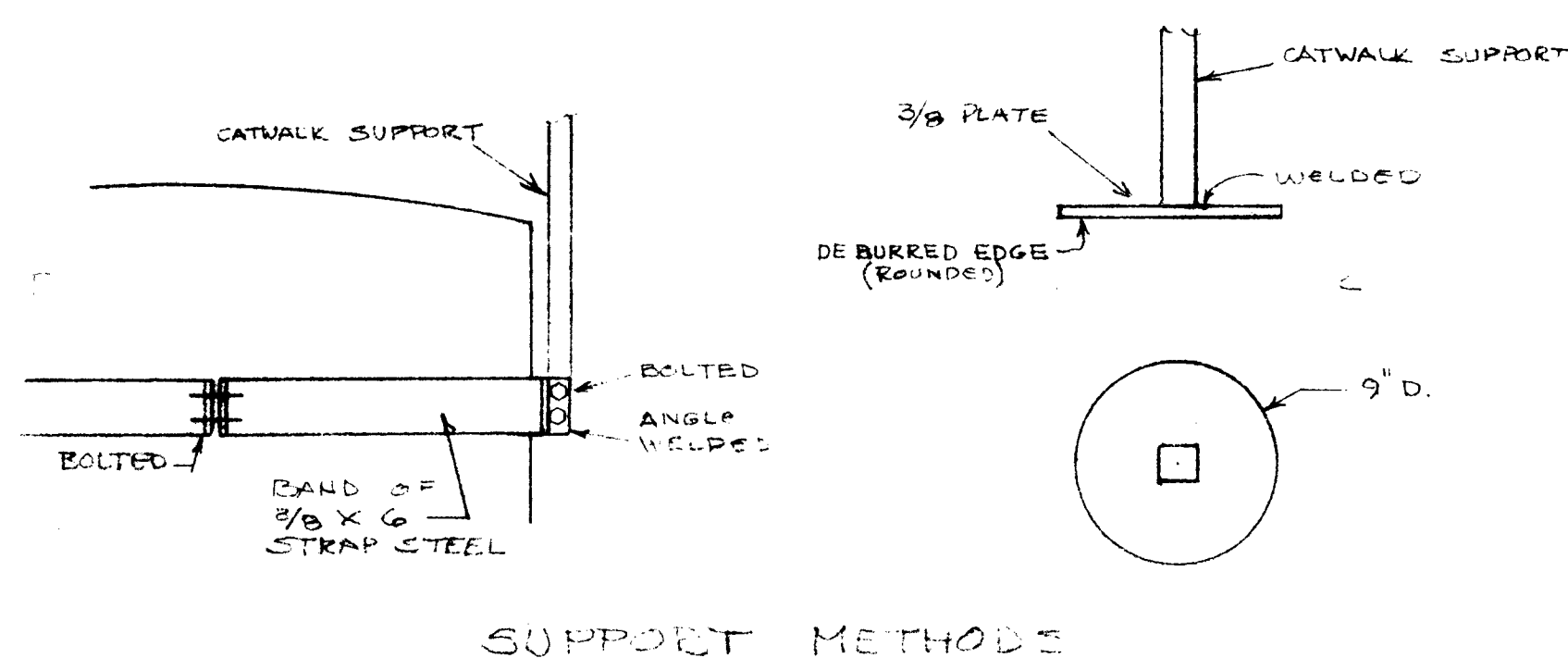
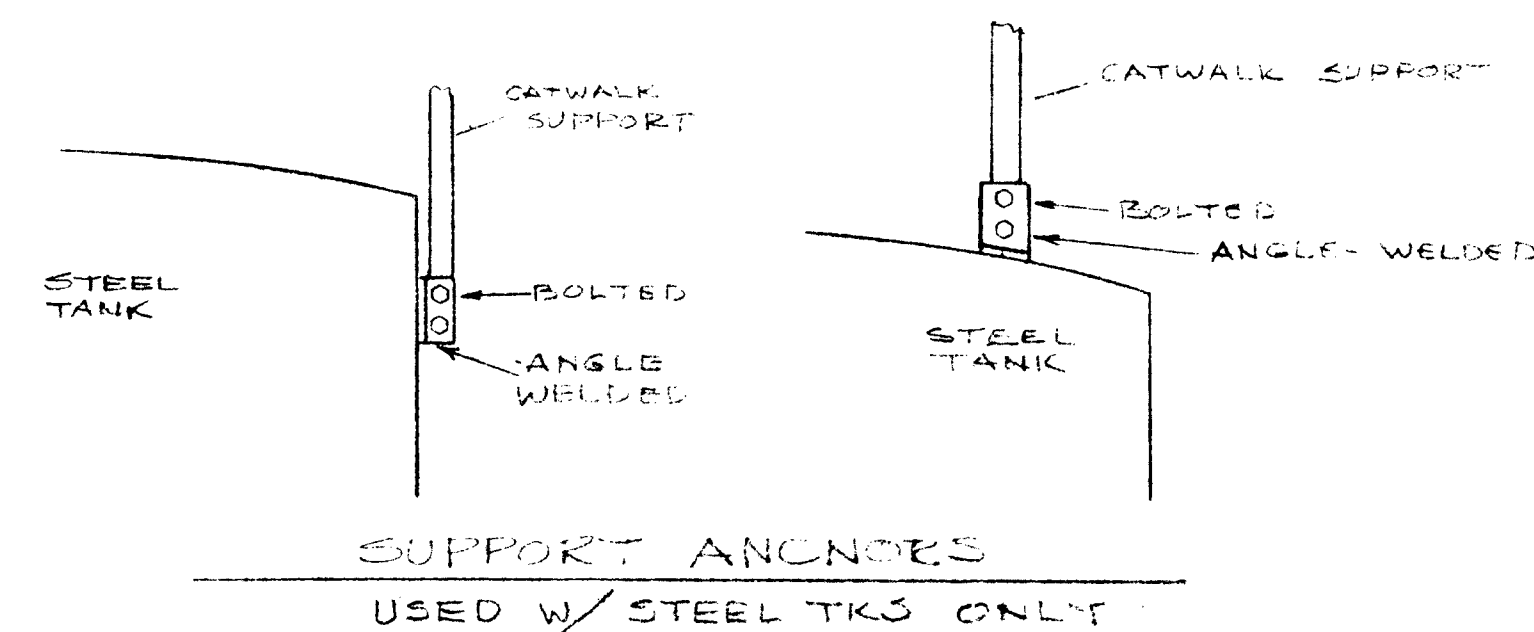


CATWALK PLAN

SCALE: 1/4" = 1'

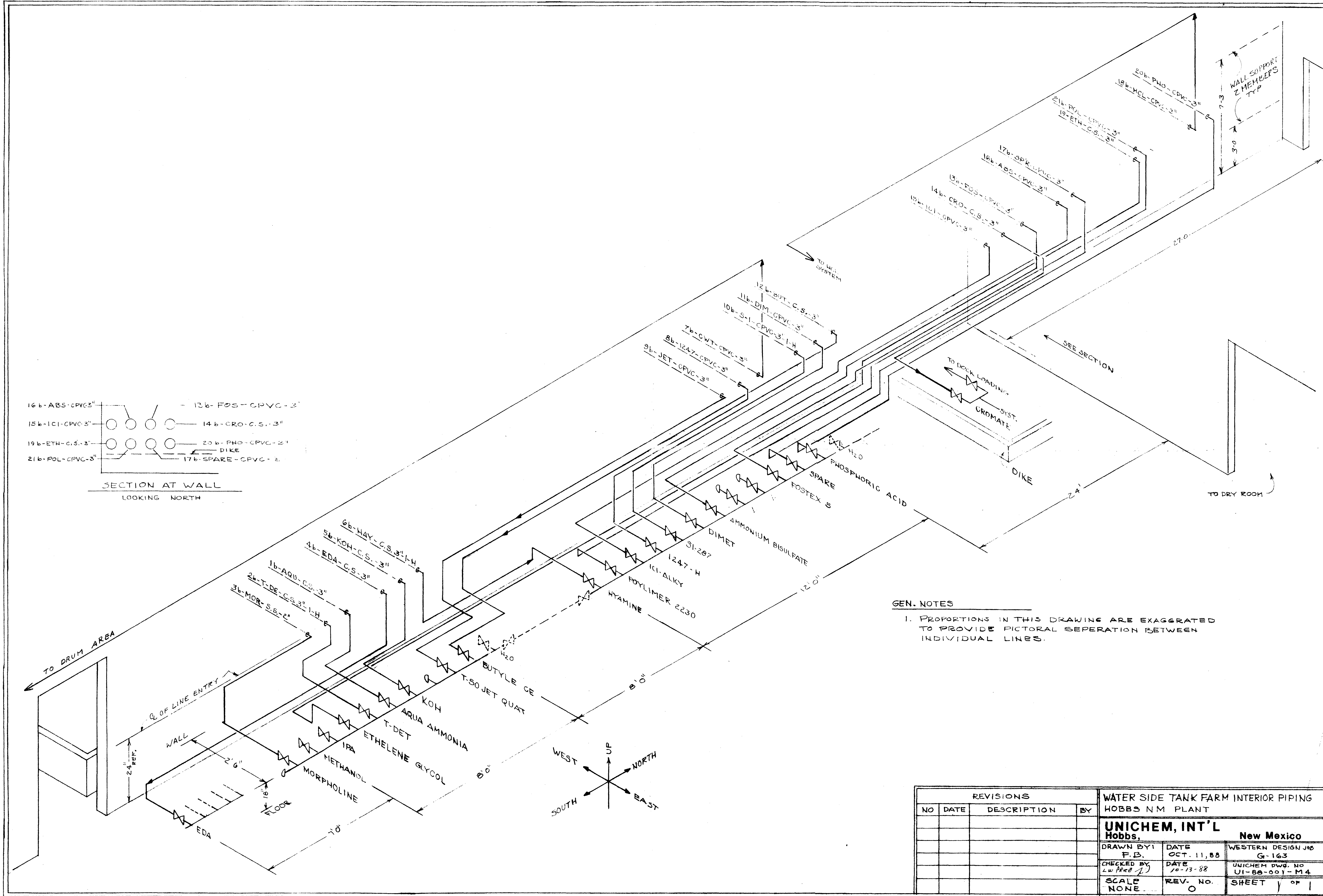
GENERAL NOTES

1. ALL PARTS, FASTENERS, WELDS & CONST METHODS PER. A.P.I. SPECS.
2. * DATUM POINT AT TOP OF STAIRS, 16' (REF) ABOVE YARD FLOOR.
3. --- INDICATES BREAKABLE SEAMS FOR TANK REMOVAL.
4. USE STIFFENERS AT ALL BREAKABLE REMOVAL SEAMS.



END OR STIFFENER CONSTRUCTION
SECTION
SCALE: 1" = 1'

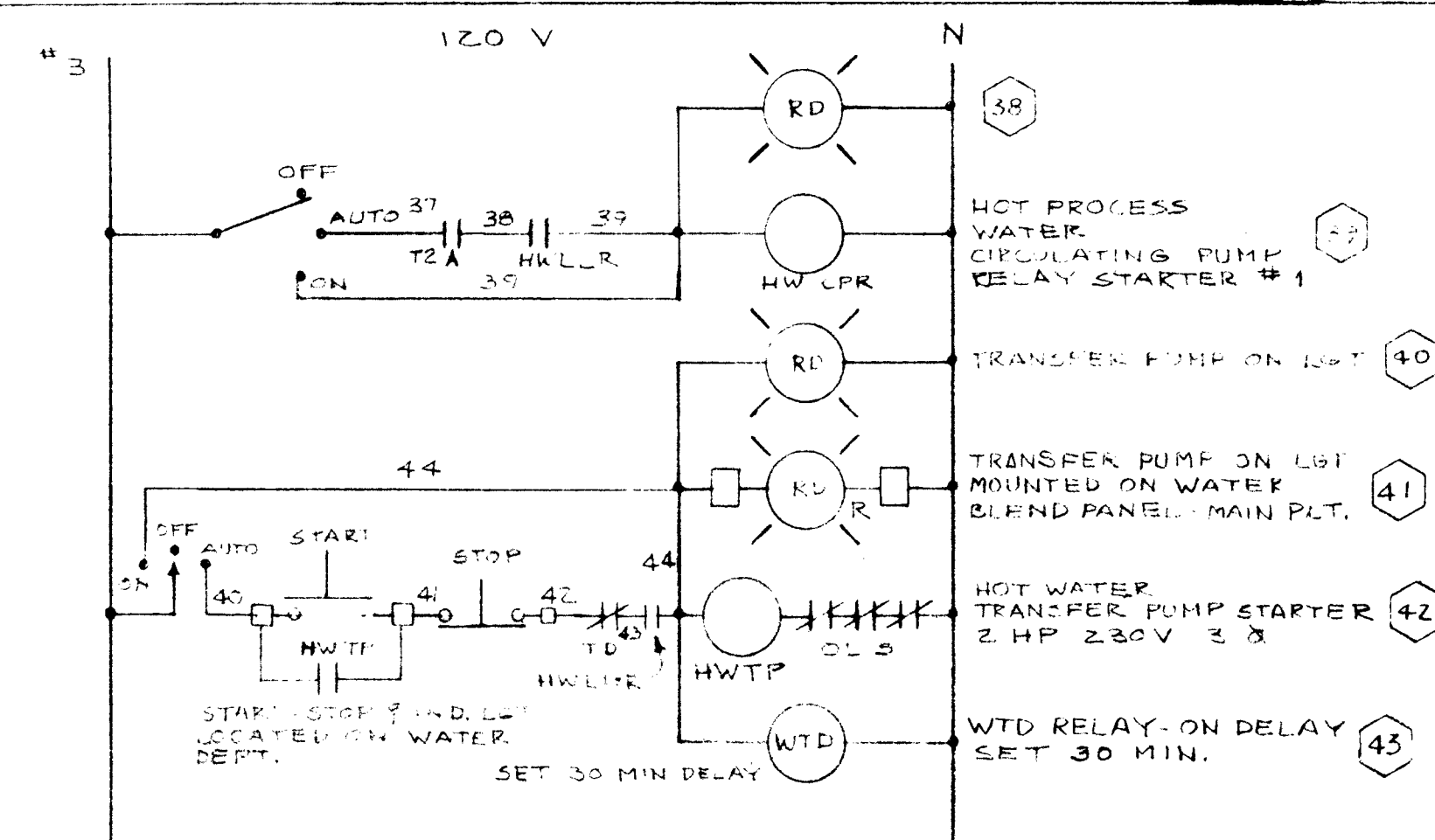
REVISIONS				WATER SIDE TANK FARM CATWALK PLAN		
NO	DATE	DESCRIPTION	BY	HOBBS, N.M.		
				UNICHEM, INT'L		
				Hobbs, New Mexico		
				DRAWN BY: F.B.	DATE: OCT. 7, 88	WESTERN DESIGN NO. G-162
				CHECKED BY: LW (PKE)	DATE: 10-19-88	UNICHEM DWG NO U1-88-001-M3
				SCALE: NOTED	REV. NO. 0	SHEET 1 OF 1



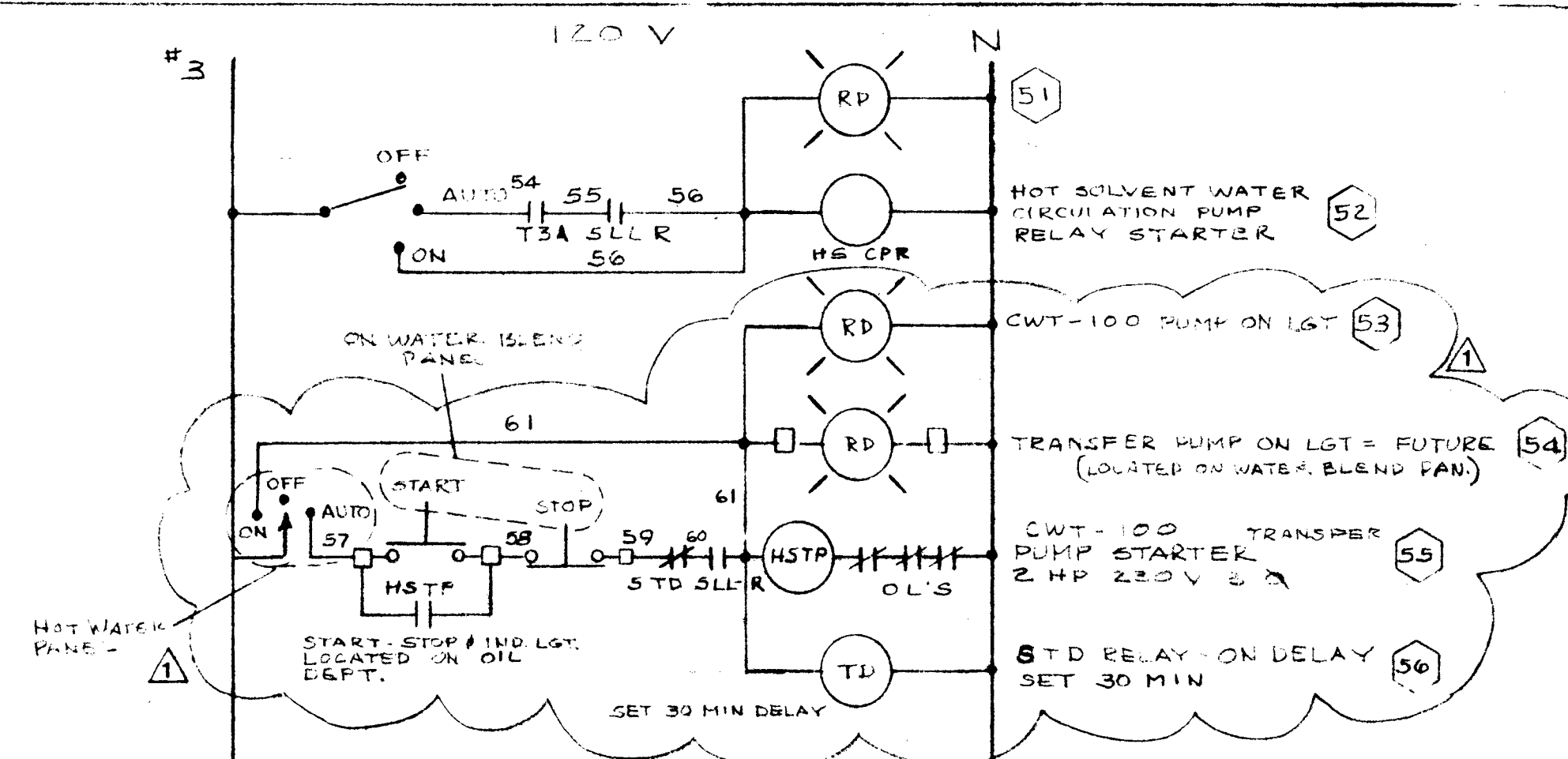
GEN. NOTES

1. PROPORTIONS IN THIS DRAWING ARE EXAGGERATED TO PROVIDE PICTORIAL SEPERATION BETWEEN INDIVIDUAL LINES.

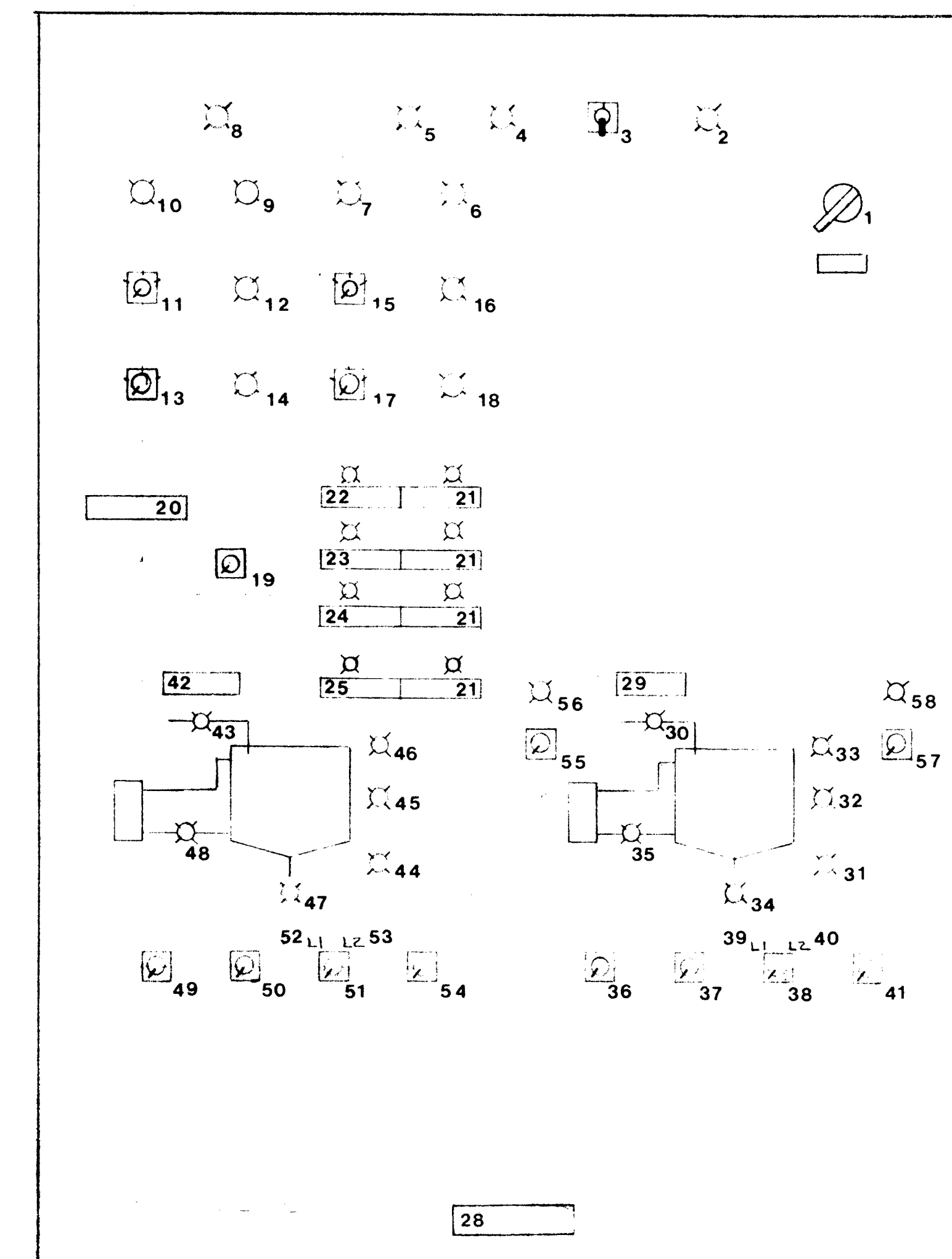
REVISIONS				WATER SIDE TANK FARM INTERIOR PIPING HOBBS NM PLANT		
NO	DATE	DESCRIPTION	BY			
				UNICHEM, INT'L Hobbs, New Mexico		
DRAWN BY:		DATE		WESTERN DESIGN JOB		
F.B.		OCT. 11, 88		G-163		
CHECKED BY:		DATE		UNICHEM DWG. NO		
LW PREB		10-13-88		UI-88-001-M4		
SCALE		REV. NO.		SHEET		
NONE		0		1 OF 1		



HOT WATER BLEND SYS.



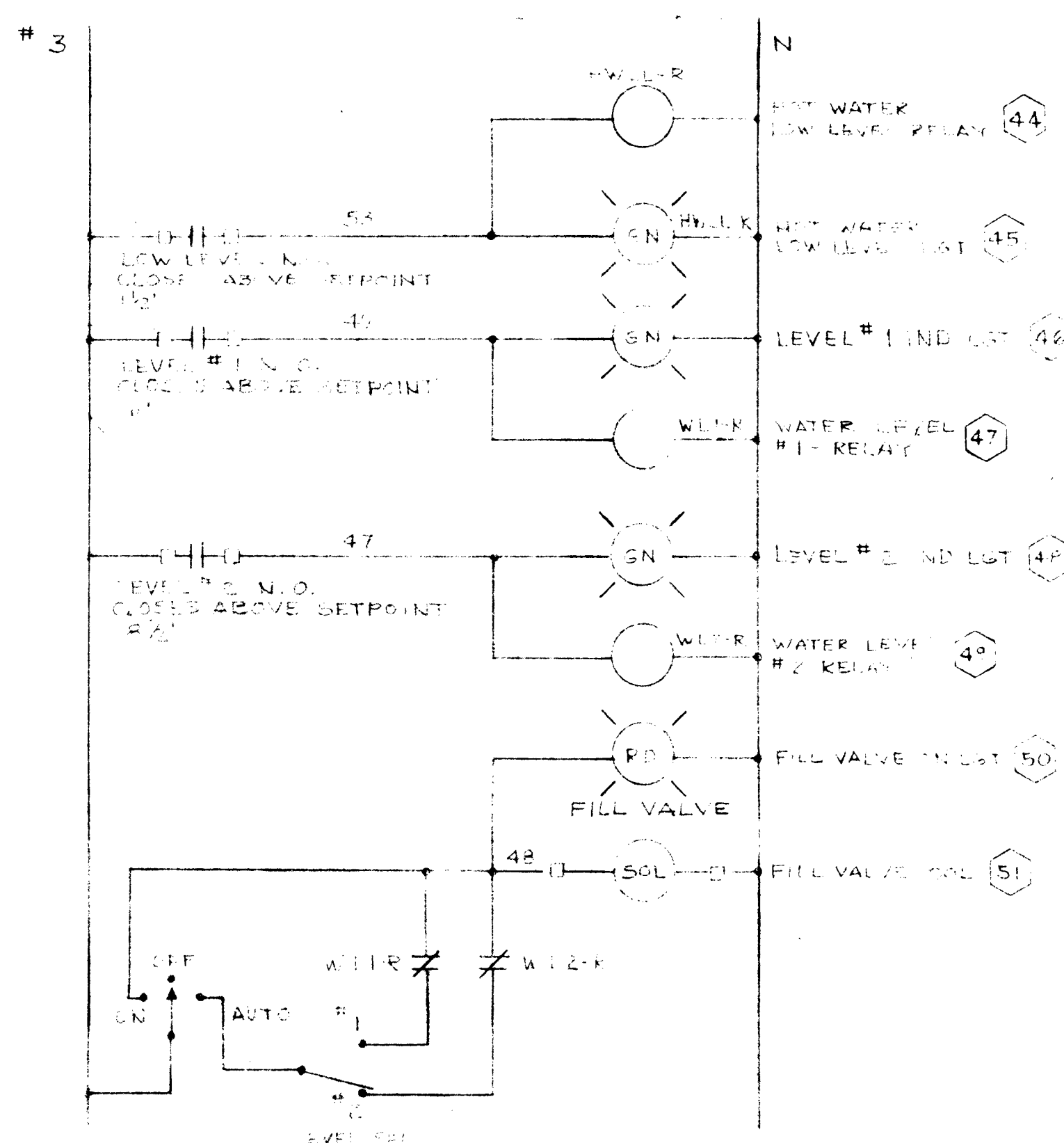
HOT SOLVENT BLEND SYS.



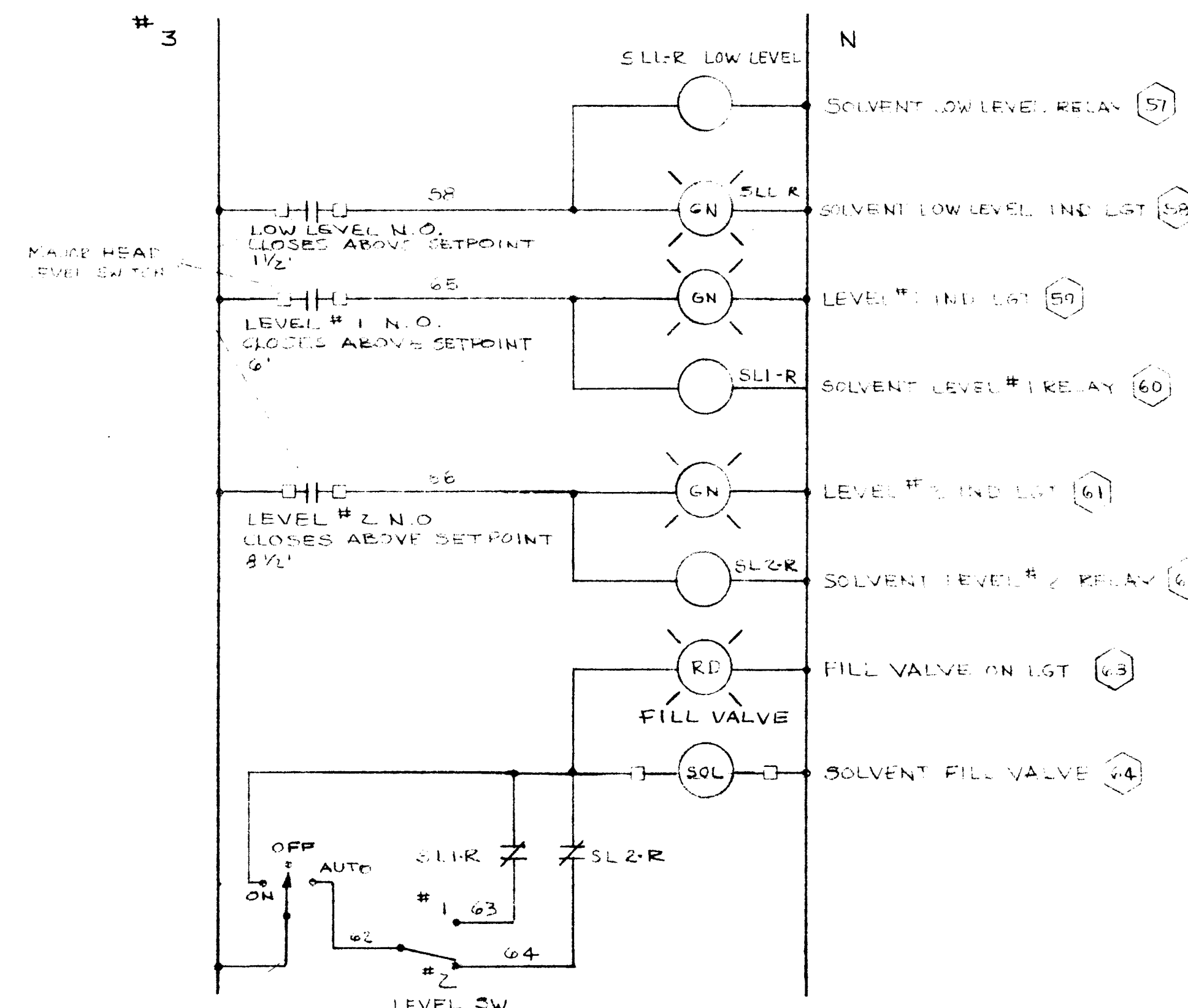
HOT WATER CONTROL PANEL

NO.	FUNCTION	NO.	FUNCTION	NO.	FUNCTION
1	MAIN POWER DISCONNECT	30	FILL VALVE ON	59	
2	CONTROL POWER ON	31	LOW LEVEL	60	
3	CONTROL POWER SELECT	32	LEVEL 1		
4	HORN RESET	33	LEVEL 2		
5	#2 OVERHEAT RESET	34	TRANSFER PUMP		
6	#2 OVERHEAT ALARM	35	CIRCULATING PUMP		
7	NO-FLOW ALARM	36	CIRCULATING PUMP SELECT		
8	#1 OVERHEAT RESET	37	TRANSFER PUMP SELECT		
9	#1 OVERHEAT ALARM	38	LEVEL SELECT		
10	#1 NO-FLOW ALARM	39	L1		
11	#1 HEATER SELECT	40	L2		
12	#1 HEATER ON	41	FILL VALVE SELECT		
13	#1 BURNER SELECT	42	HOT BLEND SOLVENT TAG		
14	#1 BURNER ON	43	FILL VALVE ON		
15	#2 HEATER SELECT	44	LOW LEVEL		
16	#2 HEATER ON	45	LEVEL #1		
17	#2 BURNER SELECT	46	LEVEL #2		
18	#2 BURNER ON	47	CWT-100 TRANSFER PUMP LIGHT		
19	THERMOSTAT SELECT	48	CIRCULATING PUMP		
20	HOT WATER SYSTEM TAG	49	CIRCULATING PUMP SELECT		
21	THERMOSTAT SETPOINT REACHED	50	CWT-100 TRANSFER PUMP SELECT		
22	OIL TANK FARM - T1	51	LEVEL SELECT		
23	HOT BLENDING WATER TANK - T2	52	L1		
24	HOT SOLVENT TANK - T3	53	L2		
25	BLENDING VATS - T4	54	FILL VALVE SELECT		
26		55	HEAT TRACE SELECT/FILL/CR		
27		56	HEAT TRACE ON		
28	CONTROL PANEL	57	HEAT TRACE SELECT/TRANS.		
29	HOT BLENDING WATER SYSTEM	58	HEAT TRACE ON		

AS BUILT



HOT WATER BLEND LEVEL SYS.



HOT SOLVENT BLEND LEVEL SYS.

NOTE: RELAYS INSTALLED - REMOTE EQUIPMENT FUTURE

REVISIONS				Hot Water Heating System	
NO.	DATE	DESCRIPTION	BY	Hobbs, NM Plant	
1	10-13-88	WATER SDRY FARM SER. SOLVED	FR. LUP	UNICHEM, INT'L	
				Hobbs New Mexico	
DRAWN BY: F.B.		DATE: 2-23-88		Sheet 2 of 3	
CHECKED BY: LUP		DATE: 7-9-88		UNICHEM DWG. NO. UI-87-001-E2	
SCALE: 1"=1'-0"		REV: 0			