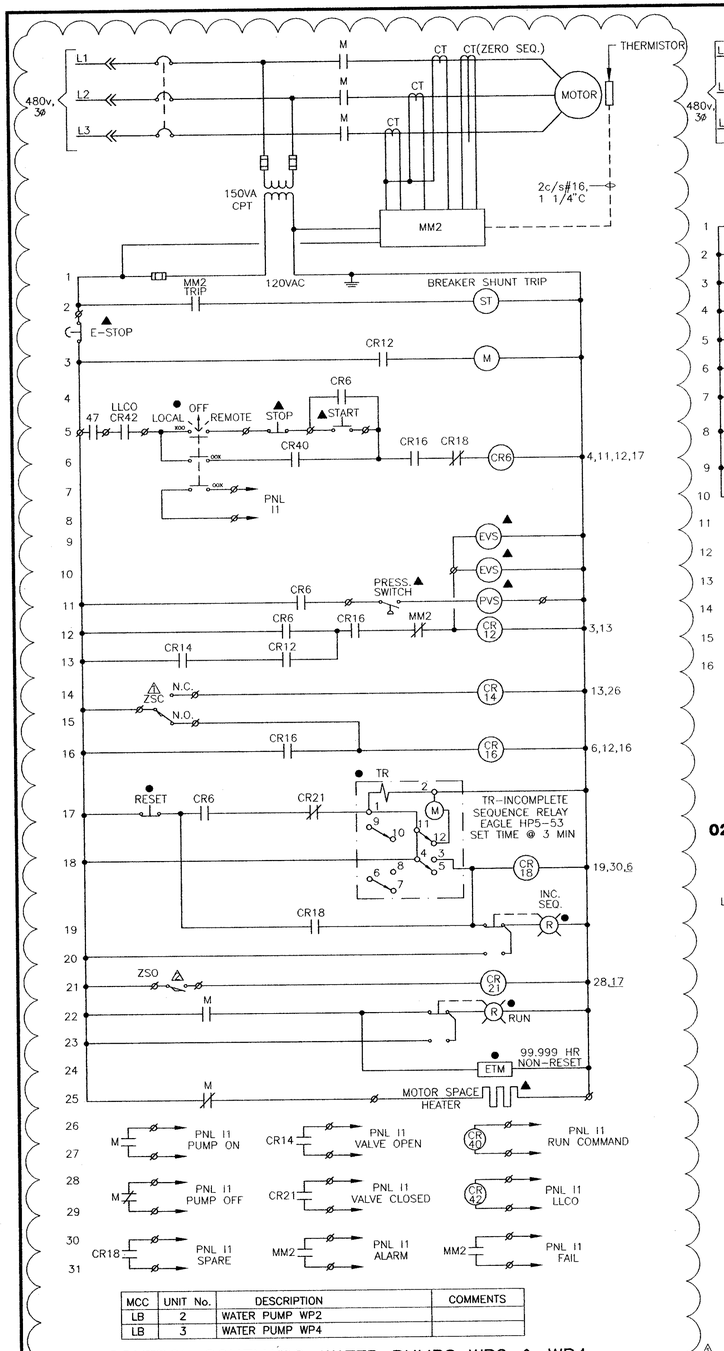
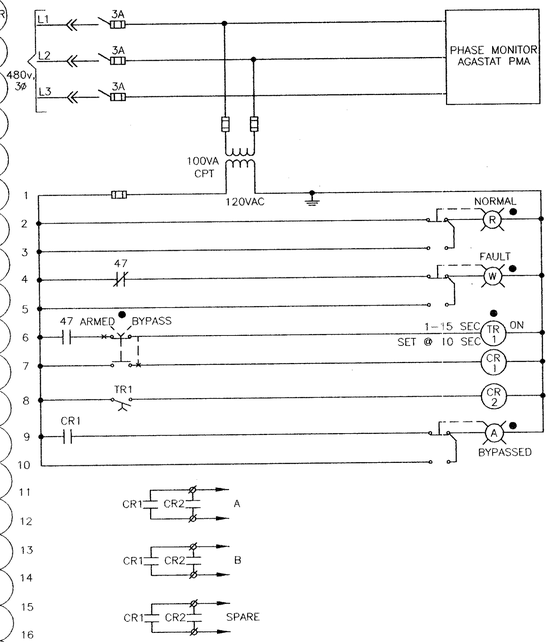


MCC	UNIT No.	DESCRIPTION	COMMENTS
LB	2	WATER PUMP WP2	
LB	3	WATER PUMP WP4	

01 CONTROL SCHEMATIC–WATER PUMPS WP2 & WP4



NOTES:

1. TIMING RELAY TR1 SHALL HAVE AN UNBALANCE SET AT 3% AND THE UNDERVOLTAGE THRESHOLD SHALL BE SET AT 14%.

MCC	UNIT No.	DESCRIPTION	COMMENTS
LB	2	DEVICE 47	
LB	3	DEVICE 47	

02 CONTROL SCHEMATIC – MCC PHASE FAILURE

LEGEND

PVS –PUMP CONTROL VALVE SOLENOID

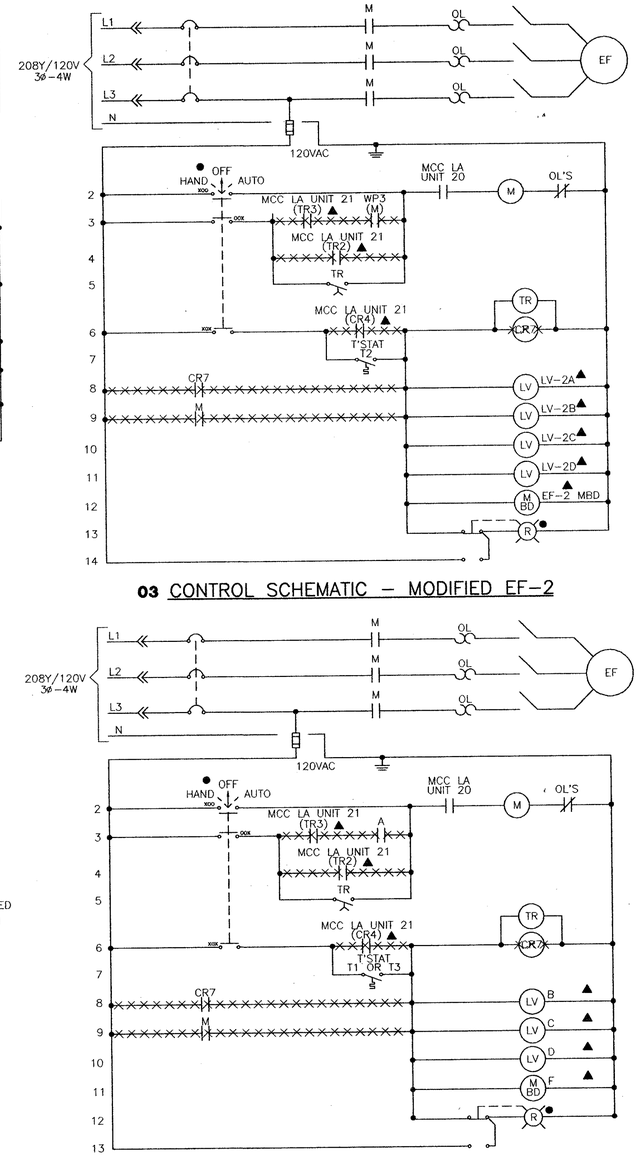
⚠ –PUMP CONTROL VALVE LIMIT SWITCH (LOWER) CLOSED WHEN VALVE IS FULL CLOSED

⚠ –PUMP CONTROL VALVE LIMIT SWITCH (UPPER) CLOSES WHEN VALVE IS FULL OPEN

INDICATES CLOSED CONTACT

INDICATES OPEN CONTACT

POSITION SWITCH		VALVE POSITION FULLY OPEN	FULLY CLOSED	FUNCTION
ZSC–1	1	■		NC
ZSC–2	2		■	NO
ZSO–1	3	■		NC
ZSO–2	4		■	NO



03 CONTROL SCHEMATIC – MODIFIED EF–2

EXHAUST FAN	A	B	C	D	F
EF–1	WP1(M)	LV–1A	LV–1B	LV–1C	EF–1 MBD
EF–2	WP5(M)	LV–3A	LV–3B	LV–3C	EF–3 MBD

04 CONTROL SCHEMATIC – MODIFIED EF–1 & EF–3

CONTROL DIAGRAM LEGEND

- ● DOOR MOUNTED DEVICE IN MCC
- ▲ DEVICE MOUNTED REMOTE FROM MCC
- ø TERMINAL IN MCC STARTER UNIT FOR CONNECTION OF EXTERNAL CIRCUITS
- GFP — CIRCUIT BREAKER WITH GROUND FAULT PROTECTION DEVICE
- NORMALLY CLOSED CONTACTS
- NORMALLY OPEN CONTACTS
- FUSE
- 100VA CPT — CONTROL POWER TRANSFORMER
- G — PUSH–TO–TEST PILOT LIGHT LETTER INDICATES COLOR
- STOP — "STOP" PUSH BUTTON
- START — "START" PUSH BUTTON
- STOP — EMERGENCY "STOP" MUSHROOM BUTTON
- M — MOTOR CONTACTOR
- CR — CONTROL RELAY
- TR — TIMING RELAY
- MOTOR SPACE HEATER
- TR1 — TIMED CONTACTS
- T'STAT — THERMOSTAT
- LS — LIMIT SWITCH
- ETM — ELAPSED TIME METER
- OFF HAND AUTO — 3 POSITION SELECTOR SWITCH

NOTES:

1. MODIFY CONTROL CIRCUITS FOR EF–1,2&3. STARTER UNTIS ARE LOCATED IN MCC–LA. ADD THERMOSTATS AND WIRING AS SHOWN ON PLAN VIEW.

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THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: 2-10-98

STATE OF TEXAS — JOSEPH J. KOTRLA — 56361 — REGISTERED PROFESSIONAL ENGINEER

E3

NO.	DATE	REVISION	BY
⚠	2-10-98	ADDENDUM 2	JJK

TOWN OF ADDISON, TEXAS

CELESTIAL ROAD PUMP STATION ADDITIONS
ELECTRICAL SCHEMATICS I

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.J.K. | PROJECT: 97 180 | SHEET NO. 8 OF SHEETS

DRAWN BY: C.C.C. | DATE: JANUARY, 1998