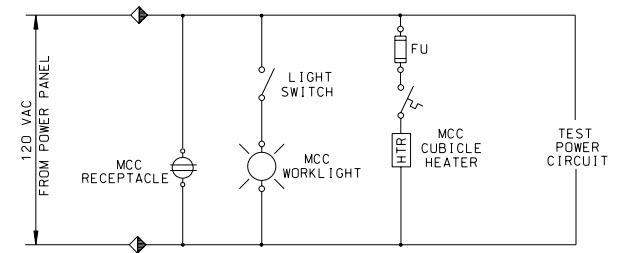
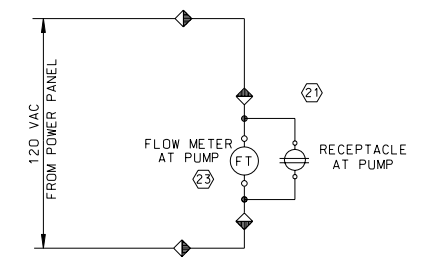
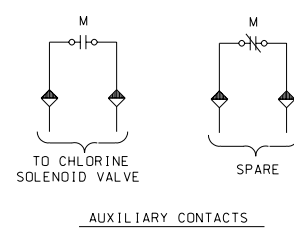
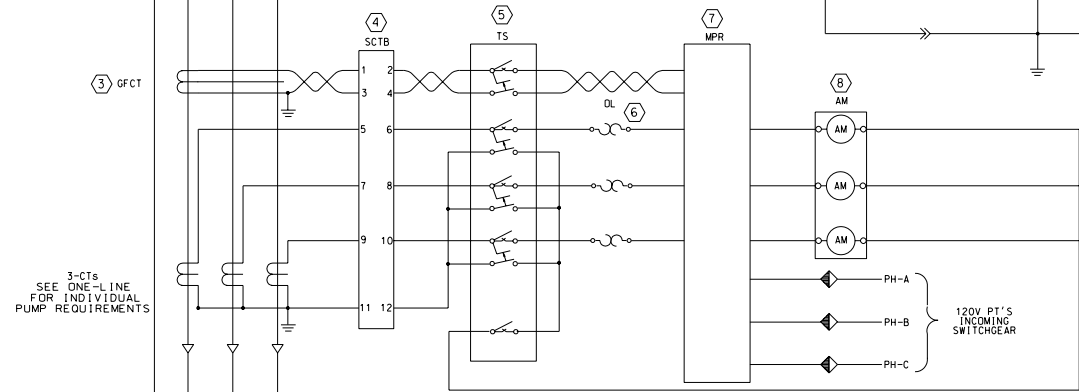
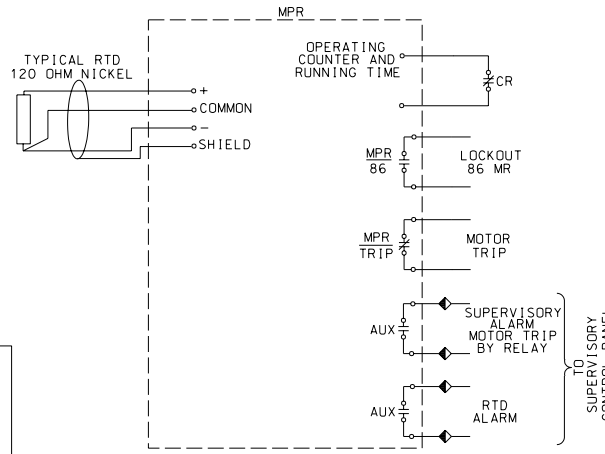
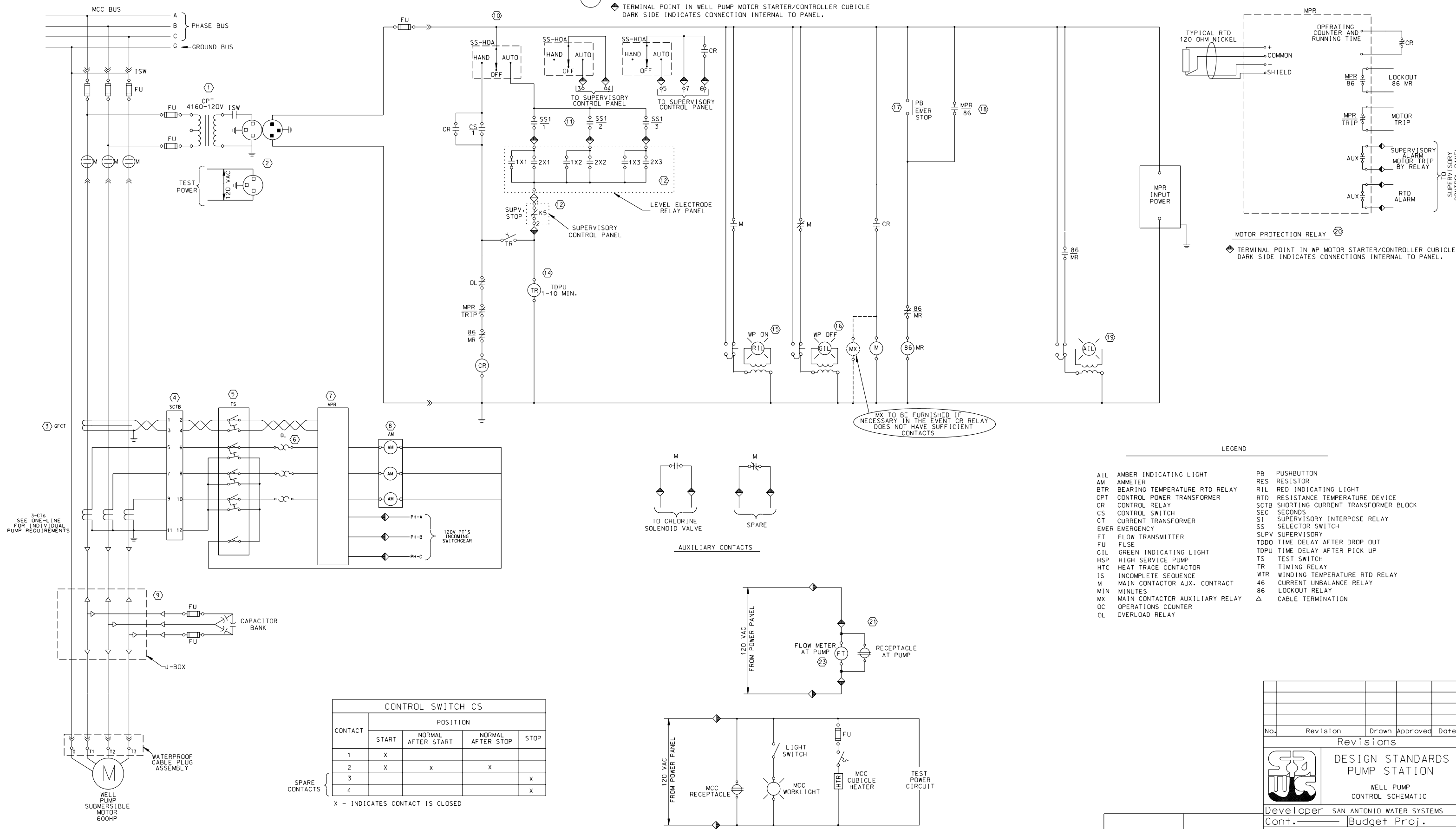


WELL PUMP MOTOR STARTER/CONTROLLER CONTROL SCHEMATIC



CONTACT	POSITION			
	START	NORMAL AFTER START	NORMAL AFTER STOP	STOP
1	X			
2	X	X	X	
3				X
4				X

X - INDICATES CONTACT IS CLOSED

- LEGEND
- | | |
|-----------------------------------|---|
| AIL AMBER INDICATING LIGHT | PB PUSHBUTTON |
| AM AMMETER | RES RESISTOR |
| BTR BEARING TEMPERATURE RTD RELAY | RIL RED INDICATING LIGHT |
| CPT CONTROL POWER TRANSFORMER | RTD RESISTANCE TEMPERATURE DEVICE |
| CR CONTROL RELAY | SCTB SHORTING CURRENT TRANSFORMER BLOCK |
| CS CONTROL SWITCH | SEC SECONDS |
| CT CURRENT TRANSFORMER | S1 SUPERVISORY INTERPOSE RELAY |
| EMER EMERGENCY | SS SELECTOR SWITCH |
| FT FLOW TRANSMITTER | SUPV SUPERVISORY |
| FU FUSE | TDDO TIME DELAY AFTER DROP OUT |
| GIL GREEN INDICATING LIGHT | TR TIME DELAY AFTER PICK UP |
| HSP HIGH SERVICE PUMP | TS TEST SWITCH |
| HTC HEAT TRACE CONTACTOR | WTR WINDING TEMPERATURE RTD RELAY |
| IS INCOMPLETE SEQUENCE | 46 CURRENT UNBALANCE RELAY |
| M MAIN CONTACTOR AUX. CONTRACT | 86 LOCKOUT RELAY |
| MIN MINUTES | Δ CABLE TERMINATION |
| MX MAIN CONTACTOR AUXILIARY RELAY | |
| OC OPERATIONS COUNTER | |
| OL OVERLOAD RELAY | |

No.	Revision	Drawn	Approved	Date
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DESIGN STANDARDS PUMP STATION
WELL PUMP CONTROL SCHEMATIC

Developer SAN ANTONIO WATER SYSTEMS
Cont. Budget Proj.

SUBMITTED GRUBB ENGINEERING, INC.
APPROVED _____

Map No. _____ Sheet
Section No. _____
Dr. RgjlCh Job No. _____ E06