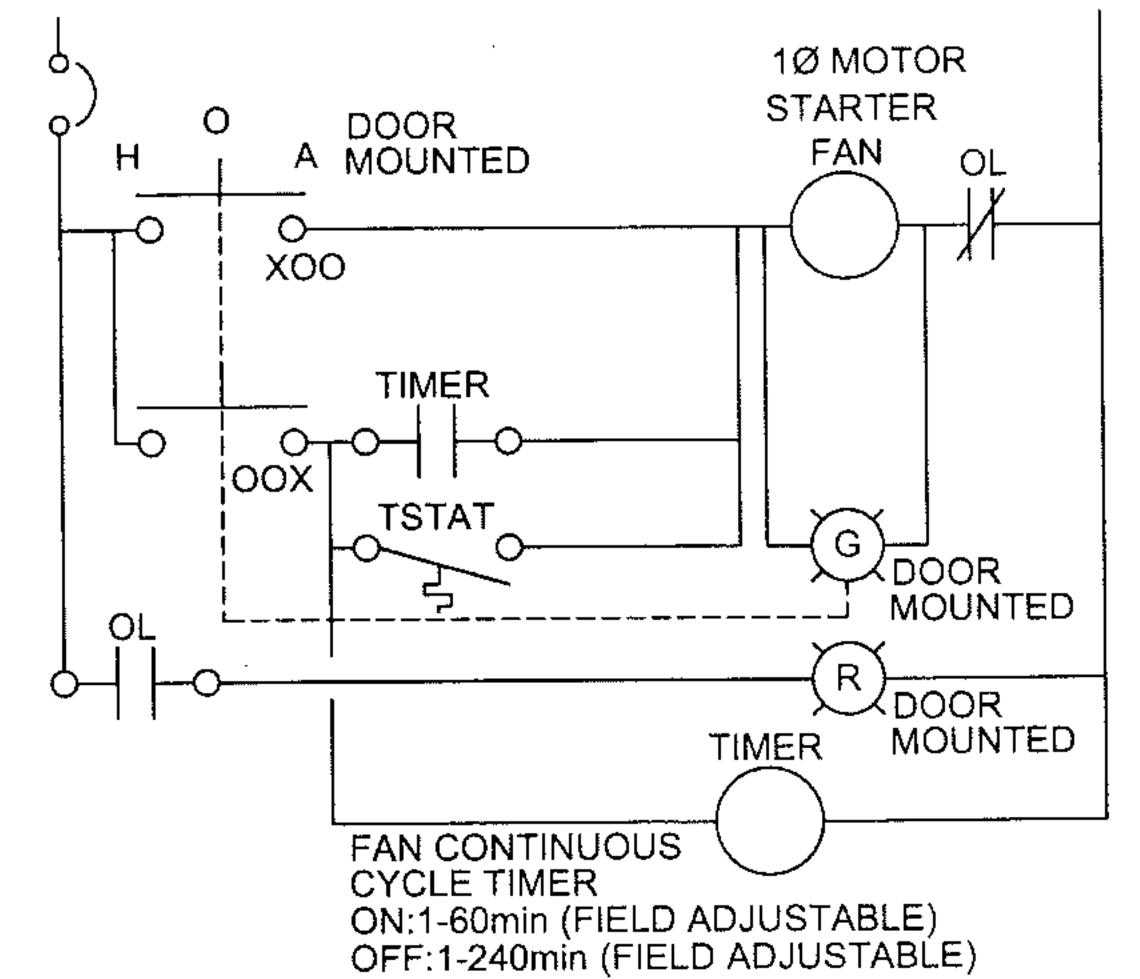
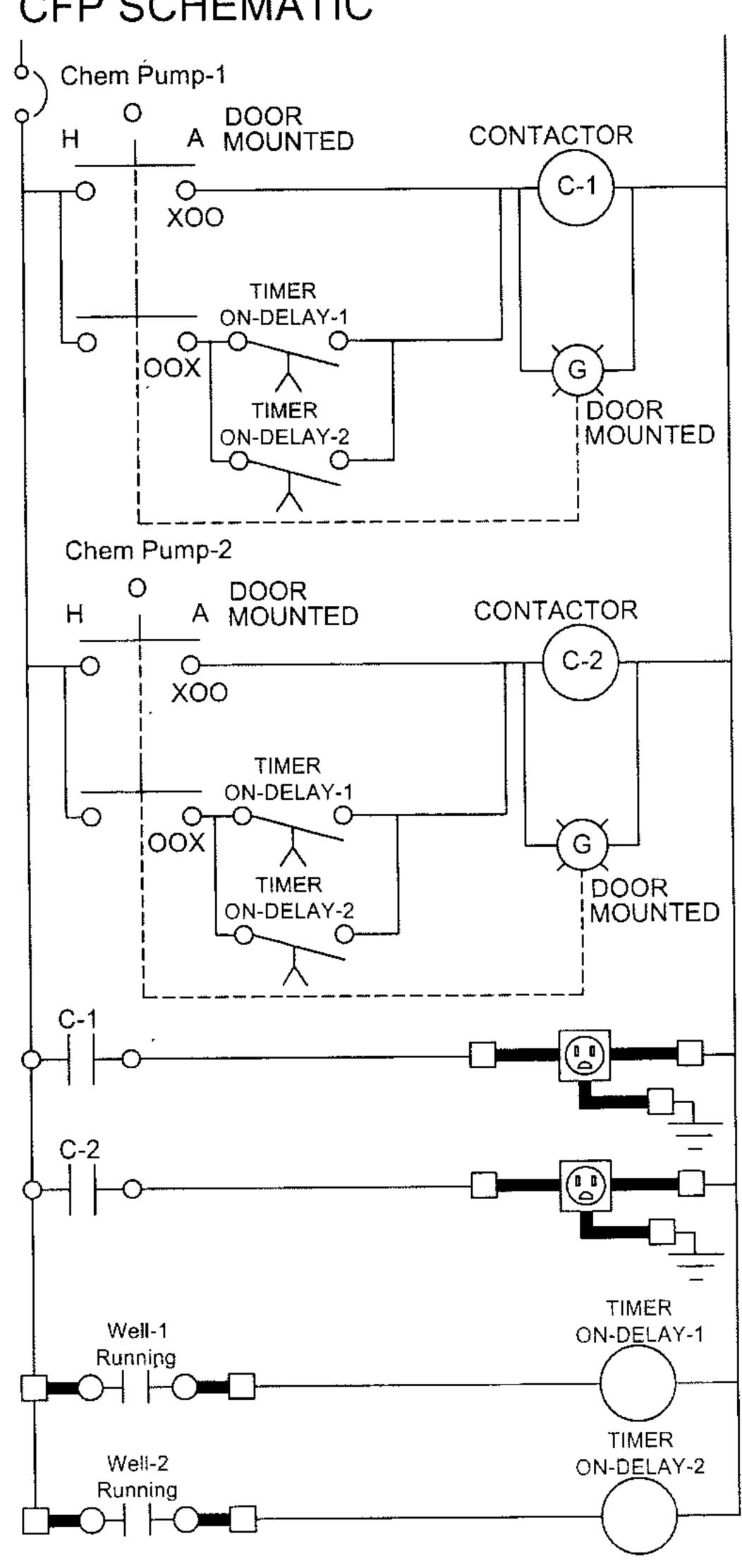


FCP SCHEMATIC



CFP SCHEMATIC



ELECTRICAL NOTES:

- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY FOR THE EXTENSION OF THE POWER SERVICE TO THE SITE AND INSTALL UTILITY SUPPLIED EQUIPMENT AS REQUIRED BY THE UTILITY. IN ADDITION, THE CONTRACTOR SHALL SUPPLY AND INSTALL THE CONDUIT/WIRE BETWEEN THE UTILITY TRANSFORMER
- PROVIDE AND INSTALL BONDING BUSHINGS ON ALL SERVICE CONNECTIONS AND GROUNDING LOCKNUTS
- SURGE PROTECTION DEVICE (SPD): PROVIDE AND INSTALL THE FOLLOWING SURGE PROTECTION DEVICE (OR APPROVED EQUAL) CONNECTED TO MDP: CURRENT TECHNOLOGY TG3-100-480-3Y-MD-B-M2.
- ALL ENCLOSURES INSTALLED UNDER THIS CONTRACT SHALL BE PAD LOCKABLE AND SHALL BE SUPPLIED WITH COMMON KEYED LOCKING DEVICES.
- ALL WIRE INSTALLED UNDER THIS CONTRACT SHALL BE COPPER. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS.
- ALL EQUIPMENT SHALL BE PROVIDED WITH LAMICOID NAMEPLATES (3/16" LETTERING MIN.).
- CONTRACTOR SHALL COORDINATE WITH ALL EQUIPMENT SUPPLIERS TO ENSURE THAT ALL REQUIRED ALARM SIGNALS ARE PROVIDED IN A FORM COMPATIBLE WITH THE ALARM DIALER
- COORDINATE WITH THE OWNER AND THE LOCAL TELEPHONE COMPANY FOR THE INSTALLATION OF THE PROPER TELEPHONE SERVICE REQUIRED TO TRANSMIT ALARMS GENERATED BY THE
- PROVIDE AND INSTALL A TELEPHONE ALARM DIALER PANEL INCLUDING BUT NOT LIMITED TO THE FOLLOWING: VERBATIM VSS SERIES DIALER, NEMA-4X ENCLOSURE, 12 DISCRETE INPUTS, INTEGRAL 24-HOUR BATTERY BACKUP AND A TELEPHONE LIGHTNING/SURGE ARRESTOR.
- ALL PANELBOARD SCHEDULES SHALL REFLECT AS-BUILT CONDITIONS. 1. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY TO ENSURE THAT EACH PANELBOARD AND IT'S
- ASSOCIATED BREAKERS HAVE AN AIC RATING WHICH MEETS AND/OR EXCEEDS THAT WHICH IS
- 11. ALL ENCLOSURES SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE: 11.1. ENCLOSURES MOUNTED INSIDE: NEMA-12/3R MINIMUM.
 - 11.2. ENCLOSURES MOUNTED OUTSIDE: NEMA-3R MINIMUM.
- 11.3. ALL ENCLOSURES SHALL BE PROVIDED WITH AMBIENT COMPENSATION AS REQUIRED BY THE INSTALLED EQUIPMENT. (ie. AIR CONDITIONER, HEATER, COOLING FANS, ETC.)
- 12. REFERENCE CIVIL SITE PLAN FOR LOCATIONS AND DISTANCES.

- MOUNT THE EQUIPMENT ADJACENT TO THE CHEMICAL FEED SYSTEM. PROVIDE AND INSTALL A WEATHER-PROOF STANDARD GROUNDED SINGLE OUTLET WITH A COVER TO CONTROL THE CHEMICAL PUMP. PROVIDE AND INSTALL A 15AMP/1P CIRCUIT BREAKER IN THE CHEMICAL BUILDING PANELBOARD AND CONNECT AS REQUIRED TO SWITCH THE CHEMICAL PUMP RECEPTACLE ON/OFF VIA A CONTACTOR PANEL WHOSE CONTACTOR COIL IS ENERGIZED BY THE WELL HOUSE CONTROL PANEL WHEN EITHER WELL IS RUNNING.
- 14. WELL-1 & WELL-2 COMBINATION MOTOR STARTER PANELS (CMS-1 & CMS-2) SHALL EACH INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- 14.1. COORDINATE MOTOR STARTER SYSTEM WITH PUMP MANUFACTURER TO ENSURE COMPATIBILITY. NEMA-12/3R ENCLOSURE, HINGED DOOR, FLANGE STYLE MOUNTED PAD-LOCKABLE DISCONNECT OPERATOR HANDLE WITH DOOR INTERLOCKING MECHANISM. 14.3. 3-PHASE MOTOR CIRCUIT PROTECTOR (MCP), CONTACTOR AND OVERLOAD.
- 14.4. 3-PHASE MONITOR RELAY TO DETECT OVER/UNDER VOLTAGE CONDITION, PHASE LOSS, PHASE IMBALANCE, PHASE ROTATION, etc.)
- 14.5. 3-PHASE LIGHTNING/SURGE ARRESTOR, COORDINATE TYPE WITH WELL PUMP MANUFACTURER. 14.6. CONTROL CIRCUIT TRANSFORMER WITH LINE AND LOAD CIRCUIT BREAKERS
- 14.7. FIELD ADJUSTABLE MOTOR ON-DELAY TIMER (1-300SEC) 14.8. FORM-C DRY CONTACT FOR EACH OF THE FOLLOWING CONDITIONS: WELL RUNNING, MOTOR
- OVERLOAD TRIPPED, MCP TRIPPED, PHASE MONITOR FAULT. EACH FAULT/ALARM CONDITION SHALL LOCK THE PUMP CONTROLLER OUT OF SERVICE, CLOSE
- THE APPROPRIATE ALARM CONTACT AND REQUIRE THE OPERATOR TO RESET THE ALARM BY TURNING THE HOA SELECTOR SWITCH TO THE OFF POSITION.
- 14.10. DOOR MOUNTED DEVICES: 14.10.1. HAND-OFF-AUTO SELECTOR SWITCH WIRED TO CONTROL THE PUMP SOFT START. THE AUTO CIRCUIT SHALL INCLUDE TERMINALS FOR WIRING A REMOTE START FROM THE
 - WELL CONTROL PANEL. 14.10.2. PUMP RUNNING LIGHT
 - 14.10.3. BYPASS OVERLOAD UNIT FAULT LIGHT
 - 14.10.4. OVERLOAD TRIPPED FAULT LIGHT
 - 14.10.5. PHASE MONITOR FAULT PILOT LIGHT 14.10.6. NON-RESETTABLE PUMP RUNTIME METER

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