

PLANS

- CONDUIT OR CIRCUIT CONTINUED ON ANOTHER PLAN OR VIEW
- CONDUIT RUN TURNED DOWN
- CONDUIT RUN TURNED UP
- CONDUIT LABEL IN DETAILS
- LIQUIDTIGHT FLEXIBLE CONDUIT
- EXPLOSION PROOF FLEXIBLE METAL CONDUIT
- CAPPED CONDUIT
- CONDUIT CONCEALED IN TRENCH
- DIRECT BURIED RIGID GALVANIZED STEEL CONDUIT
- EXPOSED CONDUIT
- UNDERGROUND PVC CONCRETE ENCASED DUCTBANK, SECTION "X". DIRECTION OF ARROWHEAD INDICATES DIRECTION OF SECTION CUT.
- CONDUIT SEAL
- BOLTED GROUND CONNECTION TO GROUND GRID. *4/0 AWG BARE COPPER UNLESS INDICATED OTHERWISE.
- THERMIC WELDED GROUND CONNECTION
- GROUND CABLE. *4/0 AWG BARE COPPER UNLESS INDICATED OTHERWISE.
- GROUND ROD
- FLOODLIGHT
- LIGHT POLE WITH AREA LIGHT FIXTURE
- METAL HALIDE FIXTURE
- DRY TYPE TRANSFORMER
- HEATER
- MOTOR SPACE HEATER
- MOTOR
- JUNCTION BOX
- SAFETY SWITCH, 3 = NO. OF POLES. 60 = SWITCH SIZE, 50 = FUSE SIZE.
- SINGLE POLE SWITCH, 20A, 120/277 VAC, MOUNTED 4'-0" AFF. 3 INDICATES 3-WAY SWITCH
- LEVEL SWITCH HIGH, LOCATION AS INDICATED
- LEVEL SWITCH LOW, LOCATION AS INDICATED
- LEVEL SWITCH LOW LOW, LOCATION AS INDICATED
- LIMIT SWITCH
- MOISTURE SWITCH
- KEYED SWITCH
- FLOW SWITCH
- LEVEL TRANSMITTER, LOCATION AS INDICATED
- TEMPERATURE TRANSMITTER
- PRESSURE TRANSMITTER
- FLOW TRANSMITTER
- METER
- DIFFERENTIAL PRESSURE SWITCH
- SOLENOID VALVE
- SMOKE DETECTOR
- HEAT DETECTOR
- UV/IR FLAME DETECTOR
- FIRE ALARM CONTROL PANEL
- KEYED NOTE
- ALARM HORN
- LEAK DETECTOR, LOCATION AS INDICATED
- EMERGENCY FUEL SHUTOFF STATION
- DUPLEX CONVENIENCE RECEPTACLE, 2-POLE, 3-WIRE, GROUNDING TYPE, 20A, 125V, NEMA 5-20R, MOUNT 18" AFF UNLESS OTHERWISE NOTED.
- PHOTOCELL
- PPI-4 CONDUCTORS FROM PANEL PPI, CIRCUIT 4 (TYP).
- STATIC GROUND CABLE REEL

SCHEMATICS/CONTROL DIAGRAMS & ONE-LINE DIAGRAM

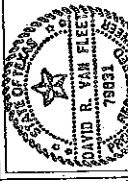
- CONNECTION
- (A) CONTACT-NORMALLY OPEN
- (B) CONTACT-NORMALLY CLOSED
- DISCONNECT SWITCH
- ENCLOSURE
- FUSE
- HAND-OFF-AUTOMATIC SELECTOR SWITCH
- INDICATING LIGHT: R-RED, G-GREEN, ETC.
- (A) LIMIT SWITCH-NORMALLY CLOSED
- (B) LIMIT SWITCH-NORMALLY CLOSED-HELD OPEN
- (A) LIMIT SWITCH-NORMALLY OPEN
- (B) LIMIT SWITCH-NORMALLY OPEN-HELD CLOSED
- MOTOR (HP SIZE AS INDICATED)
- PLUG-IN OR DRAWOUT CONNECTION
- POTENTIAL TRANSFORMER
- PROGRAMMABLE CONTROLLER INPUT
- PROGRAMMABLE CONTROLLER OUTPUT
- PUSHBUTTON-NORMALLY OPEN-MOMENTARY UON
- PUSHBUTTON-NORMALLY CLOSED-MOMENTARY UON
- RELAY COIL X AND CORRESPONDING NO AND NC CONTACTS
- TIME DELAY AFTER ENERGIZATION CONTACT (SHOWN NC)
- SOLENOID VALVE COIL
- DASHED LINE INDICATES WIRING REMOTE FROM DEVICE. SOLID LINE INDICATES CIRCUITRY WITHIN THE DEVICE.
- ALARM HORN
- CIRCUIT BREAKER, CURRENT RATING AND NUMBER OF POLES AS INDICATED
- MOTOR CIRCUIT PROTECTOR, FRAME AND TRIP RANGE PER MANUFACTURER'S RECOMMENDATION, THREE POLE
- CONTROL TRANSFORMER
- DIGITAL POWER METER
- GROUND FAULT SENSING RELAY
- VOLTMETER
- AMMETER
- VOLTMETER SELECTOR SWITCH
- AMMETER SELECTOR SWITCH
- CURRENT TRANSFORMER, NUMBER IN PARENTHESIS INDICATES QUANTITY. CURRENT TRANSFORMER RATED AS INDICATED
- MOTOR STARTER START/STOP PUSHBUTTONS
- GROUND
- MOTOR STARTER, NUMBER INDICATES SIZE OF STARTER
- THERMAL OVERLOADS
- TRANSFORMER, DELTA-GROUNDED WYE
- PHOTOCELL
- RECEPTACLE
- 200A, 600V, HEAVY DUTY CIRCUIT BREAKING RECEPTACLE ASSEMBLY, 4 POLE, 4 WIRE.

ABBREVIATIONS

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|----------|--|--------|----------------------------------|
| A | AMPERES (AMP) | L | LENGTH |
| AC | ALTERNATING CURRENT | L.T.G. | LIGHTING |
| ACK | ACKNOWLEDGEMENT | LS | LEVEL SWITCH |
| AF | AMP FRAME | M.C.B. | MAIN CIRCUIT BREAKER |
| AFF | ABOVE FINISHED FLOOR | M.C.C. | MOTOR CONTROL CENTER |
| AG | ABOVE GRADE | MH | METAL HALIDE |
| AT | AMP TRIP | M.M. | MINDMAN |
| AUX | AUXILIARY | M.L.O. | MAIN LUGS ONLY |
| B.L.D.G. | BUILDING | M.O.V. | MOTOR OPERATED VALVE |
| C. | CONDUIT | MS | MOISTURE SWITCH |
| CB | CIRCUIT BREAKER | N | NEUTRAL |
| CKT. | CIRCUIT | NEC | NATIONAL ELECTRICAL CODE |
| CON | CONTROL | NC | NORMALLY CLOSED |
| DB | DUCTBANK | NO | NORMALLY OPEN |
| DC | DIRECT CURRENT | OL | OFF-LOADING |
| DIA. | DIAMETER | OPS | OPERATIONS SHELTER |
| DWG. | DRAWING | O.W.S. | OIL/WATER SEPARATOR |
| DR | DEFUEL/RECIRCULATION | PH | PHASE |
| E.C. | EMPTY CONDUIT | PLC | PROGRAMMABLE LOGIC CONTROLLER |
| EF | EXHAUST FAN | P.M.L. | PANEL |
| EFS | EMERGENCY FUEL SHUTOFF | POW | POWER |
| ELEV. | ELEVATION | PP | POWER PANEL (480V) |
| ENCL. | ENCLOSURE | PT | PRESSURE TRANSMITTER |
| EP | CLASS 1, GROUP D HAZARDOUS AREA, INDICATES EXPLOSION PROOF EQUIPMENT | PVC | POLYVINYL CHLORIDE |
| FBO | FIXED BASE OPERATOR | RCS | RIGID GALVANIZED STEEL CONDUIT |
| FC | FOOTCANDLES | RL | REFUELER LOADING |
| FL | FLUORESCENT | RP | RECEPTACLE PANEL (120V) |
| FT | FEET | RT | RECLAIM TANK |
| FT | FLOW TRANSMITTER | SHT. | SHEET |
| G | GROUND | STA | STORAGE TANK AREA |
| GFI | GROUND FAULT INTERRUPTER | STN | STORAGE TANK NORTH |
| GND. | GROUND | STW | STORAGE TANK WEST |
| HH | HANDHOLE OR HIGH HIGH | SV | SOLENOID VALVE |
| HOA | HAND-OFF-AUTO | SW | SWITCH |
| HP | HORSEPOWER | TB | TERMINAL BLOCK |
| HR | HOUR | TC | TRAY CABLE (CONTROL CABLE) |
| HT | HEAT TRACE | TDAB | TIME DELAY AFTER DE-ENERGIZATION |
| HTR | HEATER | TELE. | TELEPHONE |
| INST | INSTRUMENTATION | TYP | TYPICAL |
| IP | ISSUE PUMP | TOL | TRUCK OFF-LOADING |
| IPP | INSTRUMENT-POWER PANEL | UE | UNDERGROUND ELECTRICAL |
| I.S. | INTRINSICALLY SAFE | UH | UNIT HEATER |
| KV | KILOVOLTS | U.O.N. | UNLESS OTHERWISE NOTED |
| KVA | KILOVOLT AMPS | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| | | UT | UNDERGROUND TELEPHONE |
| | | V | VOLT |
| | | W | WIDTH |
| | | WP | WEATHERPROOF |
| | | XTMR. | TRANSFORMER |

GENERAL NOTES:

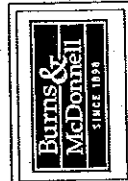
1. THIS IS A STANDARD ELECTRICAL LEGEND AND NOT ALL DESIGNATIONS ARE USED IN THIS PROJECT.
2. THE ELECTRICAL CONTRACTOR SHALL USE THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS A MINIMUM STANDARD FOR ALL INSTALLATIONS.



ISSUED FOR BID
STAGE OF PLANS

ADD - FUEL
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DGN NO.
CADD FILE NO.



Washington Group International
Integrated Engineering, Construction, and Management Solutions
PHENIX 603-850-8000 FAX 603-850-8002

BULK FUEL STORAGE AND DISPENSING SYSTEM
GENERAL LEGEND

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SHEET 16