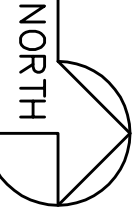


**ELECTRICAL POWER PLAN**

SCALE: 1/8" = 1'-0"



REFER TO DRAWING THIS SHEET FOR CONTINUATION

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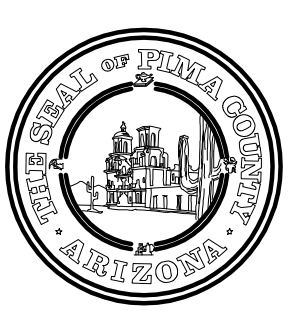
REFER TO DRAWING THIS SHEET FOR CONTINUATION

**GENERAL NOTES**

1. INSTALLATION SHALL CONFORM TO NEC ARTICLE 514.
2. ALL CONDUITS INSTALLED INSIDE OF FUEL DISPENSERS SHALL HAVE EXPLOSION PROOF FITTINGS AS REQUIRED IN NEC ARTICLE 514.
3. UNDERGROUND CONDUIT INSTALLED TO FUEL PUMPS AND DISPENSERS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE PER NEC ARTICLE 514.
4. ALL CONDUITS LEAVING CLASSIFIED AREA BOTH UNDERGROUND AND SURFACE SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS.
5. PROVIDE (1) 3/4" SPARE CONDUIT IN EACH TRENCH FROM BUILDING TO DISPENSER, PUMPS AND CARD READER/TRAC. TYPICAL.

**KEY NOTES**

1. PROVIDE NEW EPO TYPICAL FOR TWO IN LOCATION AS INDICATED. REFER TO E.P.O. STATION WIRING SCHEMATIC DETAIL 1 SHEET EP701.
2. PROVIDE NEW 120V, 100W HIGH PRESSURE SODIUM WALL MOUNTED FLOOD LIGHTS. TYPICAL FOR TWO. FIXTURES SHALL BE EQUAL TO SPALDING #RCS-WB-P10-H3-F-DB.
3. PROVIDE GENERATOR RECEPT. REFER TO ONE LINE DIAGRAM SHEET EP701. VERIFY LOCATION WITH EXISTING EQUIPMENT, STRUCTURE AND WATER/AIR ENCLOSURE PRIOR TO INSTALLATION.
4. DIESEL/UNLEADED FUEL DISPENSERS. TYPICAL OF (4). REFER TO MECHANICAL DRAWINGS W/NOT FOR INFORMATION. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL AND CONTROL CONNECTIONS. VERIFY WITH EQUIPMENT PRIOR TO INSTALLATION.
5. PROVIDE CARD READER/TRAC SYSTEM. CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL AND CONTROL CONNECTIONS. VERIFY EQUIPMENT AND FINAL CONNECTIONS WITH PIMA COUNTY PRIOR TO INSTALLATION.
6. CONDUITS ENTERING BUILDING OR CONTACTOR SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS/SEAL OFFS PER NEC.
7. PROVIDE POWER AND SPARE CONDUITS FOR PUMPS, DISPENSERS AND CARD READER. ROUTE CONDUIT UNDERGROUND TO BUILDING. ALL CONDUITS SHALL HAVE SEAL OFFS AS INDICATED IN NEC ARTICLE 514 WHERE THEY DAYLIGHT ASPHALT. REFER TO DETAILS 1 AND 2 ON SHEET EP901.
8. EXISTING VEEDER ROOT LEAK DETECTION SYSTEM AND REQUIRED CABLES AND CONNECTIONS IN 3/4" CONDUIT TO NEW FUEL TANK TO BE REUSED AND CONNECTED TO NEW PANEL 'GP'. VERIFY LOCATION AND CONNECTIONS WITH VENDOR. REFER TO DIAGRAM 3 SHEET EP701.
9. ROUTE NEW CONDUIT UNDERGROUND IN TRENCH FROM EXISTING SERVICE ENTRANCE TO NEW TRANSFER SWITCH MOUNTED ON OUTSIDE OF BUILDING. VERIFY LOCATION PRIOR TO INSTALLATION. REFER TO ONE LINE DIAGRAM SHEET EP701 FOR INFORMATION. PATCH EXISTING PAVING TO MATCH ADJACENT SURFACE. VERIFY WITH CIVIL DRAWINGS.
10. PROVIDE NEW PANEL 'GP' LOCATED ADJACENT TO EXISTING DISCONNECT SWITCH. REFER TO ONE LINE DIAGRAM SHEET EP701. VERIFY LOCATION WITH EXISTING STRUCTURE AND WATER/AIR ENCLOSURE.
11. PROVIDE TRANSFER SWITCH FOR NEW PANEL. VERIFY LOCATION WITH EXISTING STRUCTURE AND WATER/AIR ENCLOSURE.
12. PROVIDE NEMA 3R DISCONNECT SWITCH ADJACENT TO EXISTING SERVICE DISCONNECT. REFER TO ONE LINE DIAGRAM SHEET EP701.
13. PROVIDE CONNECTIONS TO CONTROL CABINET PROVIDED WITH TANK FOR LEAK/LEVEL MONITORING AND PUMP STARTER. VERIFY CONNECTIONS WITH EQUIPMENT.
14. CONCRETE BOLLARDS REFER TO CIVIL DRAWINGS FOR TYPE AND LOCATION.
15. SPLIT FUEL TANK. REFER TO MECHANICAL DRAWINGS.
16. CLASS 1, DIVISION 2 BOUNDARY REFER TO SHEET EP810 FOR INFORMATION.
17. PROVIDE PHOTOCELL FACING NORTH FOR CONTROL OF (2) WALL MOUNTED FIXTURES.
18. NEW FE PETRO LEVEL/LEAK MONITOR AND PUMP STARTER ENCLOSURE. REFER TO SHEET EP501 FOR DETAILS.
19. EXISTING DISCONNECT SWITCH TO REMAIN. SHOWN FOR REFERENCE ONLY.
20. PROVIDE CONTACTOR IN NEMA 3R ENCLOSURE MOUNTED ON EXTERIOR OF BUILDING. REFER TO DETAIL 1 SHEET EP701 FOR WIRING DIAGRAM.
21. ROUTE CONDUIT ALONG OUTSIDE OF BUILDING WALL AND PENETRATE BUILDING AT EAST SIDE OF INSIDE OFFICE WALL TO NEW PANEL 'GP'. COORDINATE LOCATION WITH EXISTING STRUCTURE AND EQUIPMENT.
22. PROVIDE NEW DUPLEX RECEPT ADJACENT TO VEEDER ROOT SYSTEM. VERIFY LOCATION WITH EXISTING WALL MOUNTED EQUIPMENT.
23. EXISTING SERVICE ENTRANCE DISCONNECT SWITCHES TO REMAIN. REFER TO ONE LINE DIAGRAM SHEET EP701.
24. PROVIDE 3/4" CONTROL CONDUIT AND (1) SPARE INTO BUILDING FOR CONNECTION OF THE VEEDER ROOT SYSTEM AND OTHER CONTROL SYSTEMS. CONDUIT SHALL BE PROVIDED WITH SEAL OFF.
25. EXISTING TRAC SYSTEM TO BE RELOCATED AND REUSED. VERIFY EXISTING SYSTEM IS IN GOOD WORKING ORDER PRIOR TO INSTALLATION.
26. ROUTE 3/4" CONDUIT FOR POWER FROM CONTROL CABINET TO DIESEL AND UNLEADED PUMPS WITH PIPING.
27. EXISTING GASBOY SYSTEM TO BE REUSED FOR CONTROL OF DISPENSERS D-002 AND D-003.
28. EXISTING PANELS OR EQUIPMENT TO REMAIN. SHOWN FOR REFERENCE ONLY.
29. NEW GASBOY SYSTEM VERIFY FINAL CONNECTIONS WITH VENDOR PRIOR TO INSTALLATION.
30. PROVIDE 3/4" CONDUIT AND (1) 3/4" SPARE FROM EXISTING GASBOY SYSTEM TO DISPENSERS D-002 AND D-003. VERIFY FINAL CONNECTIONS WITH VENDOR.
31. PROVIDE 3/4" CONDUIT AND (1) 3/4" SPARE FROM NEW GASBOY SYSTEM TO DISPENSERS D-001 AND D-004. VERIFY FINAL CONNECTIONS WITH VENDOR.



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**Revisions**

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Drawing Title  
**ELECTRICAL GROUNDING AND POWER PLAN**

Sheet Number  
**EP101**

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