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CODE REQUIREMENTS

ELECTRICAL CODE - CURRENT N.E.C.

Fuel Island and Components Specifications

1.0 Install one new above ground horizontal storage tanks -- Fireguard 2000 gallon double wall model NB)2000FGD manufactured by Newberry or functional equivalent.

2.0 Install one new Bennett Diesel Fuel dispence model 37HNS-SGCF1 or equivalent.
One product one hose dispencer.

MISSOURI DEPARTMENT OF TRANSPORTATION

ST. LOUIS DISTRICT - EUREKA FUEL PUMP ISLAND

ST. LOUIS COUNTY

EUREKA, MISSOURI

DESIGN BY: LARRY CARVER

DRAWN BY: LARRY CARVER

DATE: 7-15-14

FUEL PUMP ISLAND
ST. LOUIS DISTRICT
EUREKA, MISSOURI

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

TITLE SHEET

DESIGN BY: LARRY CARVER
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Fuel Pump Island Plan

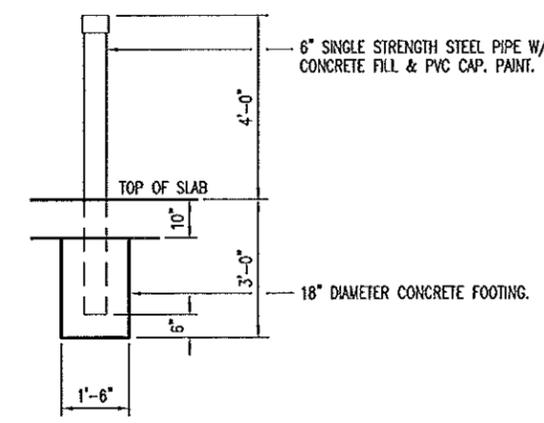
CONTRACTOR NOTE

1. CONTRACTOR TO PROVIDE MATERIAL SUBMITTALS TO BE APPROVED BY MODOT PRIOR TO INSTALLATION.

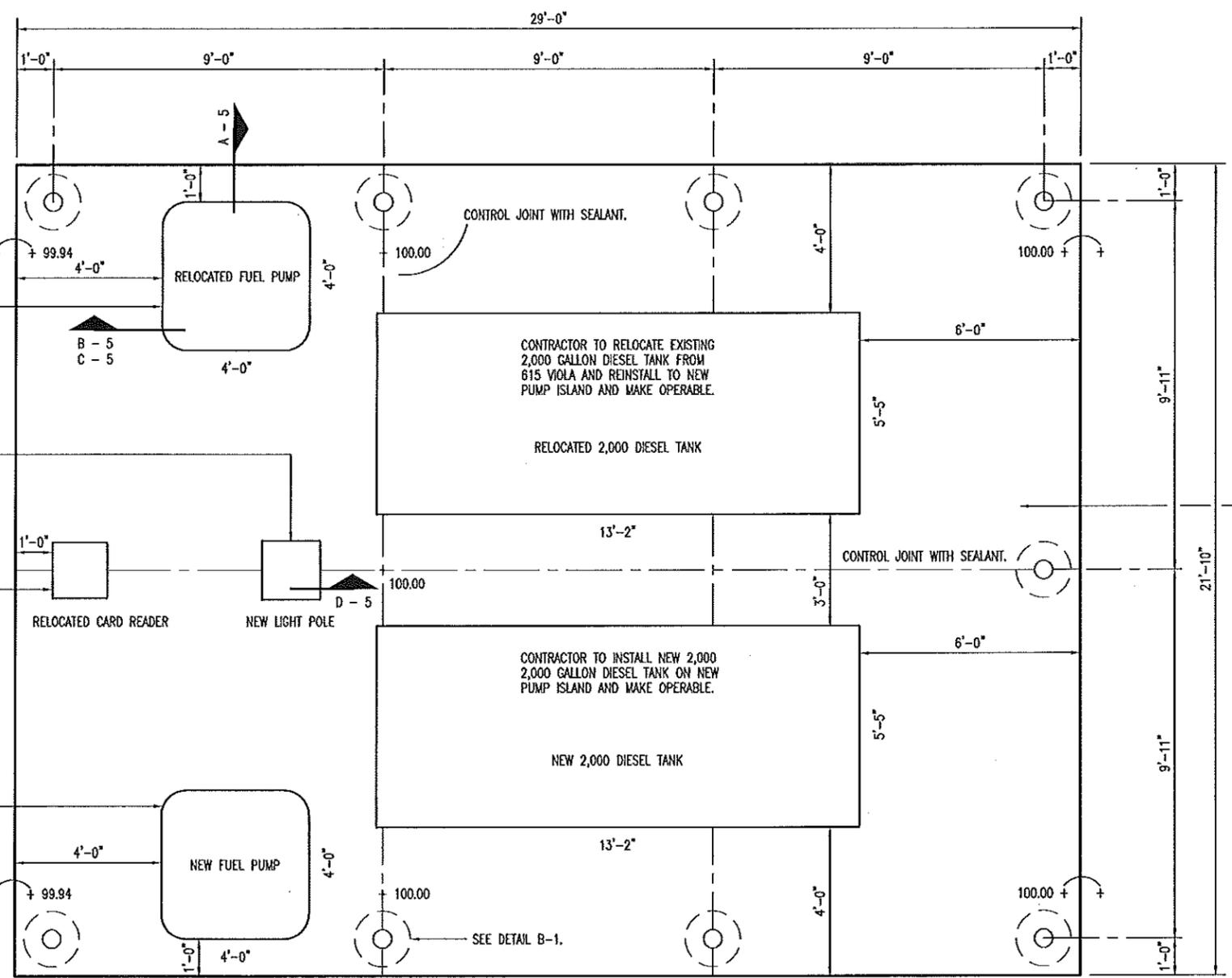
CONCRETE NOTES

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS WITH 4" TO 5" SLUMP.
4. DEFORMED STEEL REINFORCING BARS SHALL BE: #6 ASTM A615 GRADE 60.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
6. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.

10" CONCRETE SLAB WITH #6's CENTERED @ 16" O.C. EACH WAY WITH LIGHT BROOM FINISH ON FINISHED ASPHALT GRADE.



B
 2
 PROVIDE AND INSTALL NINE (9) TOTAL BOLLARD DETAIL
 SCALE: 1/4" = 1'-0"



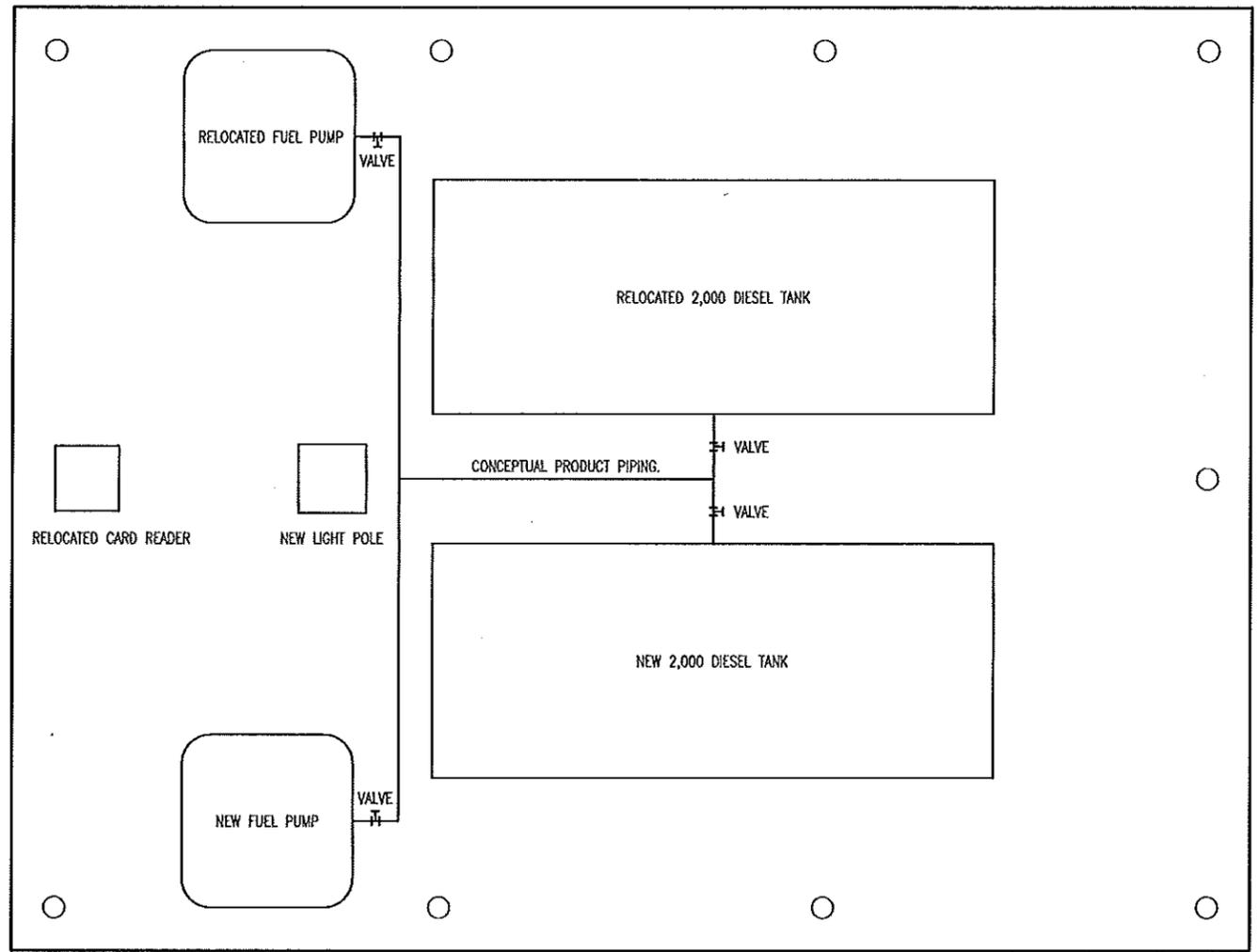
CONTRACTOR TO RELOCATE EXISTING FUEL PUMP FROM 615 VIOLA AND REINSTALL TO NEW PUMP ISLAND AND MAKE OPERABLE.

CONTRACTOR PROVIDE AND INSTALL OVERHEAD LIGHT AND FIXTURE BASE MODOT STANDARD 901.00T. LIGHT FIXTURE - 901.01Y-MB.

CONTRACTOR TO RELOCATE EXISTING CARD READER FROM 615 VIOLA AND REINSTALL TO NEW PUMP ISLAND AND MAKE OPERABLE WITH BOTH PUMPS.

CONTRACTOR TO INSTALL NEW FUEL PUMP AND INSTALL ON NEW PUMP ISLAND AND MAKE OPERABLE.

A
 2
 FUEL PUMP ISLAND PLAN
 SCALE: 1/4" = 1'-0"



A
3
PRODUCT PIPING
 SCALE: 1/4" = 1'-0"

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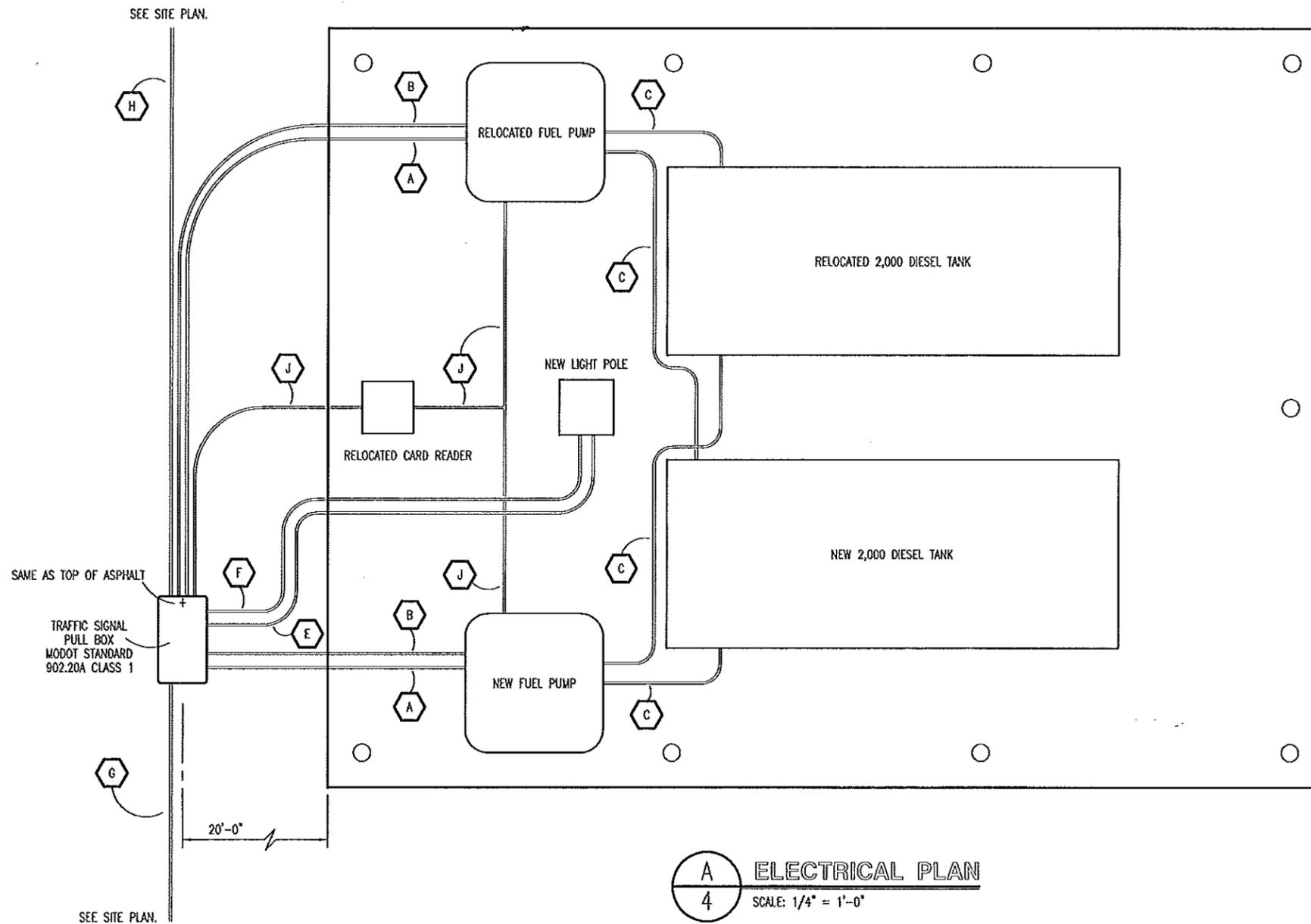
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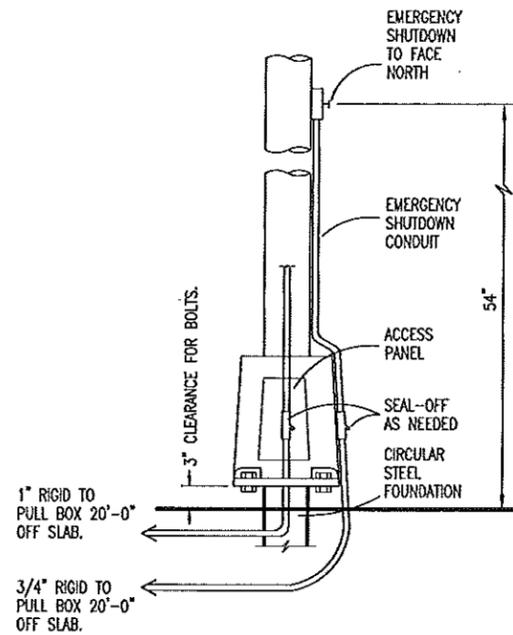
ELECTRICAL PLAN



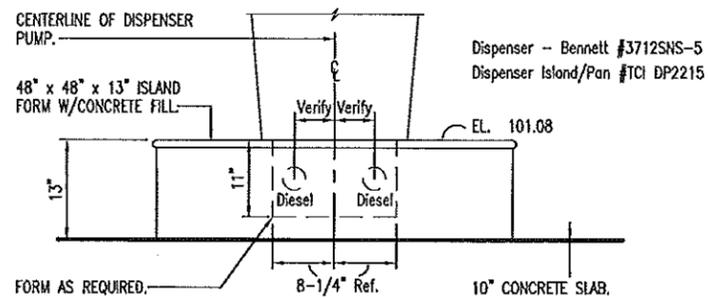
NOTES

- A 3/4" RIGID CONDUIT WITH (1) CIRCUIT GAS -- 2c #10 W/#12 GROUND & (1) CIRCUIT DIESEL -- 2c #10 W/#12 GROUND.
- B 3/4" RIGID CONDUIT WITH (1) CIRCUIT DISP. POWER -- 2c #12 W/#12 GROUND AND (1) CIRCUIT CARD READER 2c #12 W/#12 GROUND.
- C 3/4" RIGID CONDUIT 2c #12 W/#12 GROUND FOR ANTI-SIPHON VALVE.
- D NOT USED.
- E 1" RIGID CONDUIT AT PULL BOX 2c #6 W/1c #8 GROUND FOR THE LIGHTING.
- F 3/4" RIGID CONDUIT 2c #12 FOR EMERGENCY SWITCH.
- G (2) CIRCUIT DIESEL PUMP -- 2c #10 W/GROUND 240V. A-TS-9/10
 (2) CIRCUIT GAS PUMP -- 2c #10 W/GROUND 240V. A-TS-10/12
 (1) CIRCUIT FOR CARD READER. A-TS-13.
 (1) CIRCUIT FOR DISPENSER ELECTRONICS. A-TS-14.
 1 - 240 CIRCUIT LIGHTING -- 2c #6 W/#8 GROUND. A-32/34.
 1 PAIR WIRES FOR EMERGENCY SWITCH -- 2c #12.
 (2) CIRCUITS FOR WATERPROOF SINGLE RECEPTACLES. (2) 2c #8 /W #10 GROUND.
 PROVIDE EMT/PVC CONDUIT. SIZE AS REQUIRED.
- H TO LIGHTING FIXTURE IN PARKING LOT -- 2c #6 W/#8 GROUND. A-32/34. 2" EMT/PVC CONDUIT.
 (2) CIRCUITS FOR WATERPROOF SINGLE RECEPTACLES. (2) 2c #8 /W #10 GROUND.
- J 3/4" RIGID CONDUIT WITH CONDUCTORS ETC. AS REQUIRED.

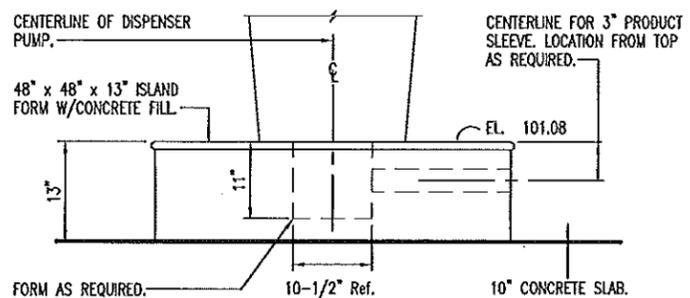
VERIFY ALL CONDUIT CONDUCTORS SIZES.



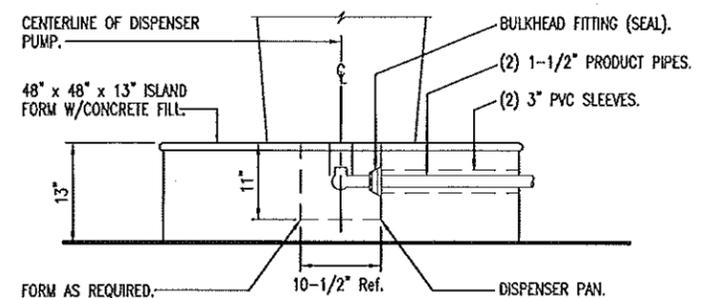
D
5 LIGHT POLE @ GAS PUMPS
SCALE: 1/2"=1'-0"



A
5 METAL ISLAND FORM DETAIL
SCALE: 1/2"=1'-0"



B
5 METAL ISLAND FORM DETAIL
SCALE: 1/2"=1'-0"



C
5 METAL ISLAND FORM DETAIL
SCALE: 1/2"=1'-0"

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