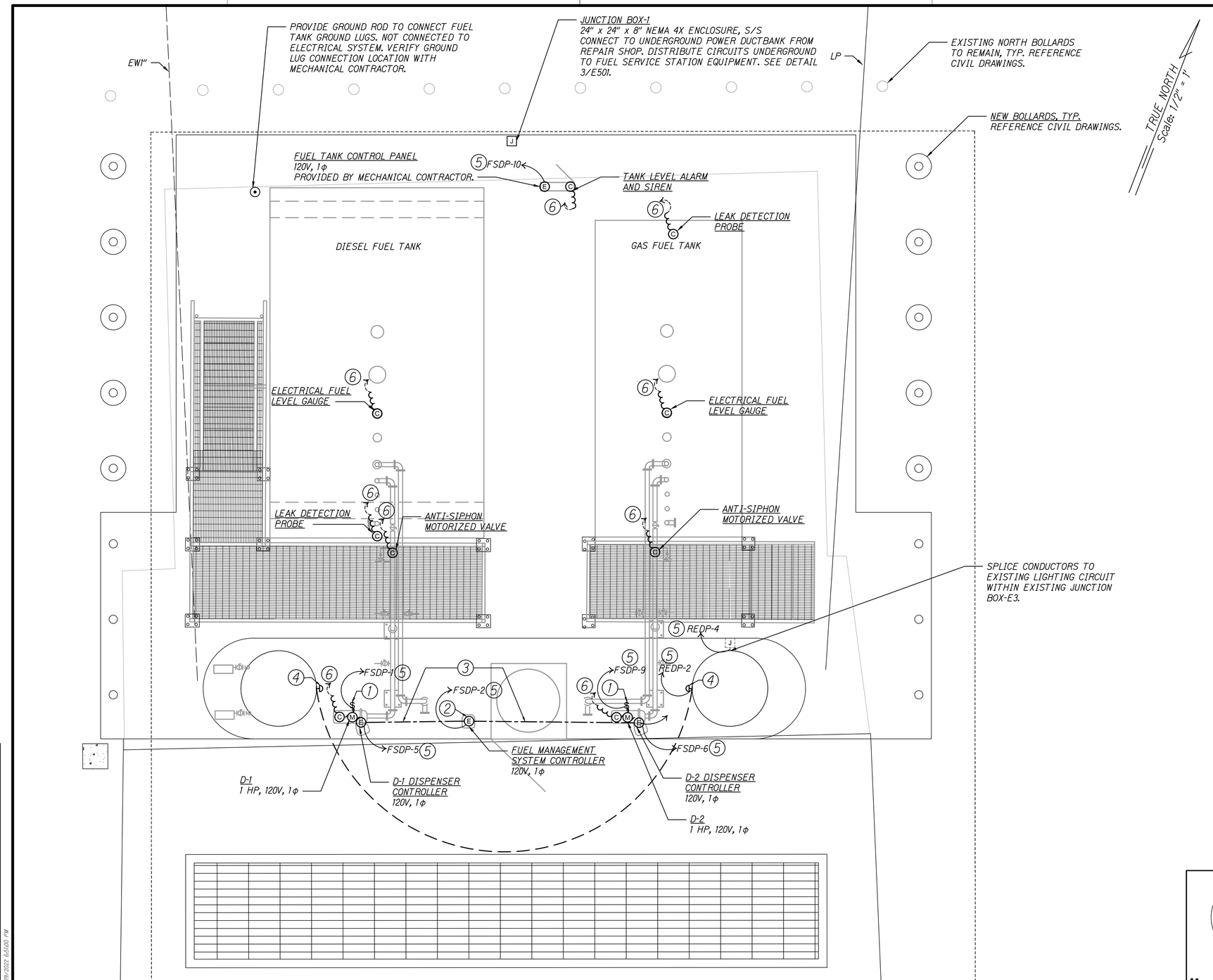

2 0 2 4

GRAPHIC SCALE: 1/2"=1'

FUEL SERVICE STATION ELECTRICAL PLAN

SCALE: 1/2" = 1'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-03-21, PHASE 2	2022	37	46

SHEET NOTES:

1. EXISTING CONCRETE PAD AND CURB WILL BE DEMOLISHED AND REPLACED WITH NEW. SEE CIVIL DRAWINGS FOR DETAILS.
2. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EQUIPMENT AND CONTROLS CONNECTION REQUIREMENTS.
3. WORK WITHIN HAZARDOUS AREAS SHALL COMPLY WITH NEC 2017 501.10(B), 514.4, 514.7, & 514.8 FOR WIRING METHODS:
   - 3.a. UNDERGROUND DUCTS SHALL BE CONCRETE ENCASED, PVC SCH 40 UNDER MINIMUM 2' BELOW GRADE. SEE E-501.
   - 3.b. THREADED GRS SHALL BE USED FOR THE LAST 2' OF UNDERGROUND RUN TO EMERGENCE OR POINT OF CONNECTION.
   - 3.c. ALL ABOVE CONDUIT SHALL BE GRS.
   - 3.d. CONDUCTOR INSULATION SHALL BE LISTED FOR USE WITHIN THE HAZARDOUS AREA PER NEC 501.20.
   - 3.e. PROVIDE LISTED EXPLOSION PROOF SEALS WITHIN 10'-0" OF EITHER SIDE OF THE BOUNDARY, IN EACH CONDUIT RUN ENTERING OR LEAVING A DISPENSER OR ANY CAVITIES OR ENCLOSURES IN DIRECT COMMUNICATION THEREWITH.

KEY NOTES:

(1) PROVIDE SUPPORT FRAME FOR MOUNTING OF EQUIPMENT. UTILIZE STAINLESS STEEL STRUT, HARDWARE, AND FASTENERS AND SECURE TO CONCRETE SLAB IN AN APPROPRIATE LOCATION.

(2) PROVIDE POWER AND TELECOM INFRASTRUCTURE TO SUPPORT NEW FUEL MANAGEMENT SYSTEM (FMS) CONTROLLER, PROVIDED BY THE MECHANICAL CONTRACTOR. COORDINATE WITH THE MECHANICAL CONTRACTOR AND FMS MANUFACTURER FOR CONNECTION REQUIREMENTS.

(3) INSTALL 1"C W/ (2) #14 AWG UNDER CURB FOR CONTROL SIGNAL BETWEEN FMS CONTROLLER AND PUMP DISPENSERS. COORDINATE WITH MECHANICAL AND CONTROLS CONTRACTORS FOR CONNECTION REQUIREMENTS.

(4) PROVIDE NEW EMERGENCY FUEL SHUT OFF BUTTON TO SHUNT TRIP MAIN BREAKER FOR PANEL FSDP. SEE SHEET E503 FOR MORE INFORMATION.

(5) CIRCUIT HOMERUN FED VIA JUNCTION BOX-1.

(6) PROVIDE 1"C FROM FUEL TANK CONTROL PANEL TO CONTROLS CONNECTION POINT SHOWN. CONTROL CABLING PROVIDED BY OTHERS. COORDINATE INSTALLATION WITH MECHANICAL AND CONTROLS CONTRACTOR. PROVIDE REQUIRED SUPPORTS, MOUNTING FRAMES, FASTENERS, AND MISCELLANEOUS HARDWARE TO FACILITATE INSTALLATION OF CONDUIT RUNS. ALL MATERIALS SHALL BE STAINLESS STEEL WHERE AVAILABLE.

GARRET A. MASUDA
LICENSED PROFESSIONAL ENGINEER
No. 9756-E
HAWAII, U.S.A.

4/30/24
EXP. DATE

This work was prepared by me or under my supervision.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FUEL SERVICE STATION ELECTRICAL PLAN

MAUI DISTRICT BASEYARD OFFICE EXPANSION & RENOVATION, PART 2
Project No. HWY-M-03-21, Phase 2

Scale: AS SHOWN Date: JULY 2022

SHEET No. E103 OF 14 SHEETS

22055_E-103.DWG 7/19/2022 6:50:00 PM