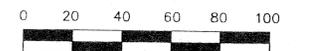




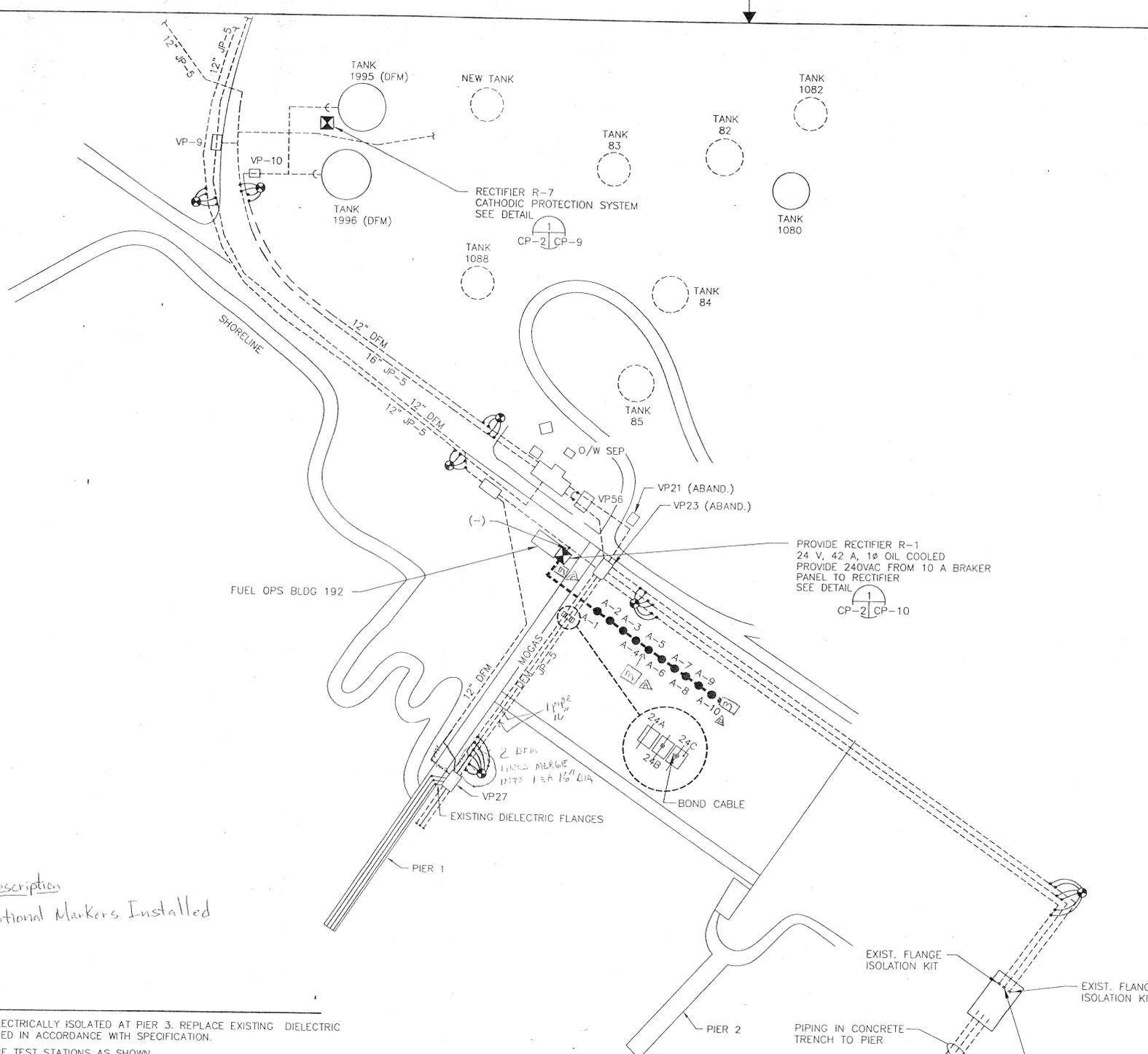
SCALE IN FEET



SCALE IN METERS

CATHODIC PROTECTION LEGEND

- (+) NEW POSITIVE CATHODIC PROTECTION CABLE NO. 1 AWG STRD COPPER WIRE W/HMWPE INSUL IN 38mm Ø PVC CONDUIT ENCASED IN CONCRETE AT ALL LOCATIONS INCLUDING AROUND TANKS SEE TRENCH DETAIL
 CP-2/CP-11
- (-) NEW NEGATIVE CATHODIC PROTECTION CABLE NO. 1 AWG STRD COPPER WIRE W/HMWPE INSUL IN 38mm Ø PVC CONDUIT ENCASED IN CONCRETE AT ALL LOCATIONS INCLUDING AROUND TANKS SEE TRENCH DETAIL
 CP-2/CP-11
- NEW CATHODIC PROTECTION TEST STATION WELDED TO STRUCTURE USING THE EXOTHERMIC WELD PROCESS
 CP-2/CP-11
- A-# NEW 19mm X 1219mm MIXED METAL OXIDE TUBULAR SHALLOW ANODE
 CP-2/CP-11
- EXOTHERMIC WELD TO PIPE
 CP-2/CP-13



New
 LEGEND: Description
 [Symbol] [Symbol] --- Additional Markers Installed

- NOTES:**
- ENSURE PIPING IS ELECTRICALLY ISOLATED AT PIER 3. REPLACE EXISTING DIELECTRIC MATERIAL AS REQUIRED IN ACCORDANCE WITH SPECIFICATION.
 - INSTALL NEW PIPELINE TEST STATIONS AS SHOWN.
 - REMOVE EXISTING RECTIFIER UNIT.
 - INSTALL NEW AC 208 1Ø 60HZ BREAKER WITH 15 AMP CAPACITY AT BLDG. 192.
 - POUR NEW CONCRETE PAD AND INSTALL NEW 24 VOLT 42 AMPERE OIL COOLED RECTIFIER. SEAL ALL CONDUITS. USE GALVANIZED STEEL CONDUIT. CABINET TO BE HOT DIPPED GALVANIZED STEEL.
 - INSTALL NEW SHALLOW ANODE BED AS SHOWN.
 - MAKE NEW NEGATIVE CONNECTION TO PIPE NORTHEAST OF RECTIFIER. INSTALL ONE (1) #1 HMWPE NEGATIVE CABLE. CONNECT TO PIPES USING EXOTHERMIC WELDS.

RECTIFIER R-1 CATHODIC PROTECTION SYSTEM
 SCALE: 1:1200

AS-BUILT DRAWINGS

Revised by:
 F. Cortez
 3-15-00



PSG Corrosion Engineering 8840 Complex Dr. Ste. 100 San Diego, CA 92123		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST DIVISION SAN DIEGO, CALIFORNIA	
DES. CHK SUPV. CHK SUBMITTED BY SW DIV NFOC-RVD DFPE DIR	DR. EC CH. ENG. RBJ DATE 4-30-99 DISTRICT MGR.	DFSP ROOSEVELT ROADS DESP PROJECT FY 97, RRD 97-3 REPAIR CATHODIC PROTECTION SYSTEMS DFSP ROOSEVELT ROADS	PUERTO RICO RECTIFIER R-1 CATHODIC PROTECTION SYSTEM
APPROVED CP-2	Satisfactory to DATE	SIZE D	CODE IDENT. NO. 80091
IF SHEET IS LESS THAN 594 X 841 IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY		NAVFAC DRAWING NO. 8129754	
THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.		CONST. CONTR. NO. N67811-98-C-5742 SPEC. 11-98-5742	
FOR COMMANDER NAVFAC		SHEET 3 OF 15	