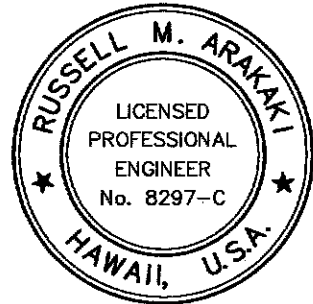


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	377A-01-11	2014	18	28

- Notes:
- Remove and dispose of existing trees as required for construction of the outlet improvements. Removal and disposal of existing trees shall not be paid for separately but shall be included with Item No. 201.0100.
 - Grout voids of the Dumped Riprap from Station 0+03.38 to Station 0+10 Outlet. Grout shall consist of 1 part Portland Cement to 3 parts fine aggregate by volume. Adjust the ratio of cement to fine aggregate as requested by the Engineer at no additional cost to the State. Grout for dumped riprap will not be paid for separately but shall be considered incidental to Item No. 655.0100.
 - The Non-Woven Geotextile Fabric under the Dumped Riprap shall meet the minimum material requirements shown in Table 716.06-1 of the Standard Specifications. Non-woven Geotextile Fabric will not be paid for separately but shall be considered incidental to Item No. 655.0100.
 - Excavation, 1 1/2" HDPE, DR 9 pipe, fittings, connections, concrete jacket, and backfill for waterline installation will not be paid for separately but shall be included with Item No. 655.0100.
 - Install temporary 1 1/2" HDPE water line pipe, including temporary valves and fittings around the work area to provide continuous potable water service for T.M.K.: 2-2-012:012. The Contractor shall submit a temporary water line relocation plan to the Engineer for review and acceptance at least 30 days prior to the start of any water line work. The cost for the temporary water line will not be paid for separately but shall be included with Item No. 655.0100.
 - Excavation for GRP and Dumped Riprap will not be paid for separately but shall be considered incidental to Contract Item Nos. 612.0100 and 655.0100, respectively.

Dumped Riprap Gradation

% Passing	Stone Size (ft.)
D ₁₀₀	5.25' to 6.0'
D ₈₅	4.2' to 4.9'
D ₅₀	3.5' to 4.0'
D ₁₅	1.4' to 2.1'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

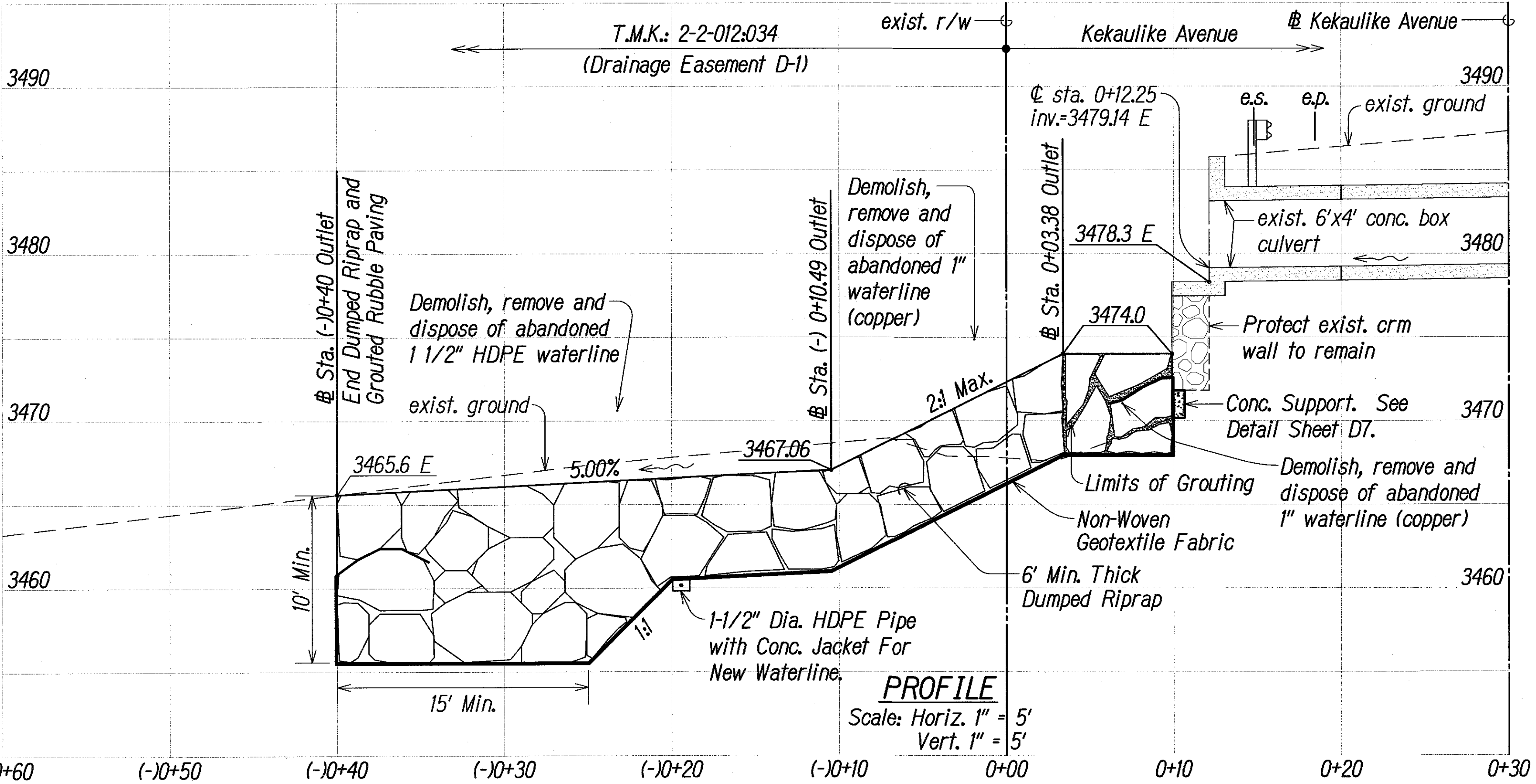
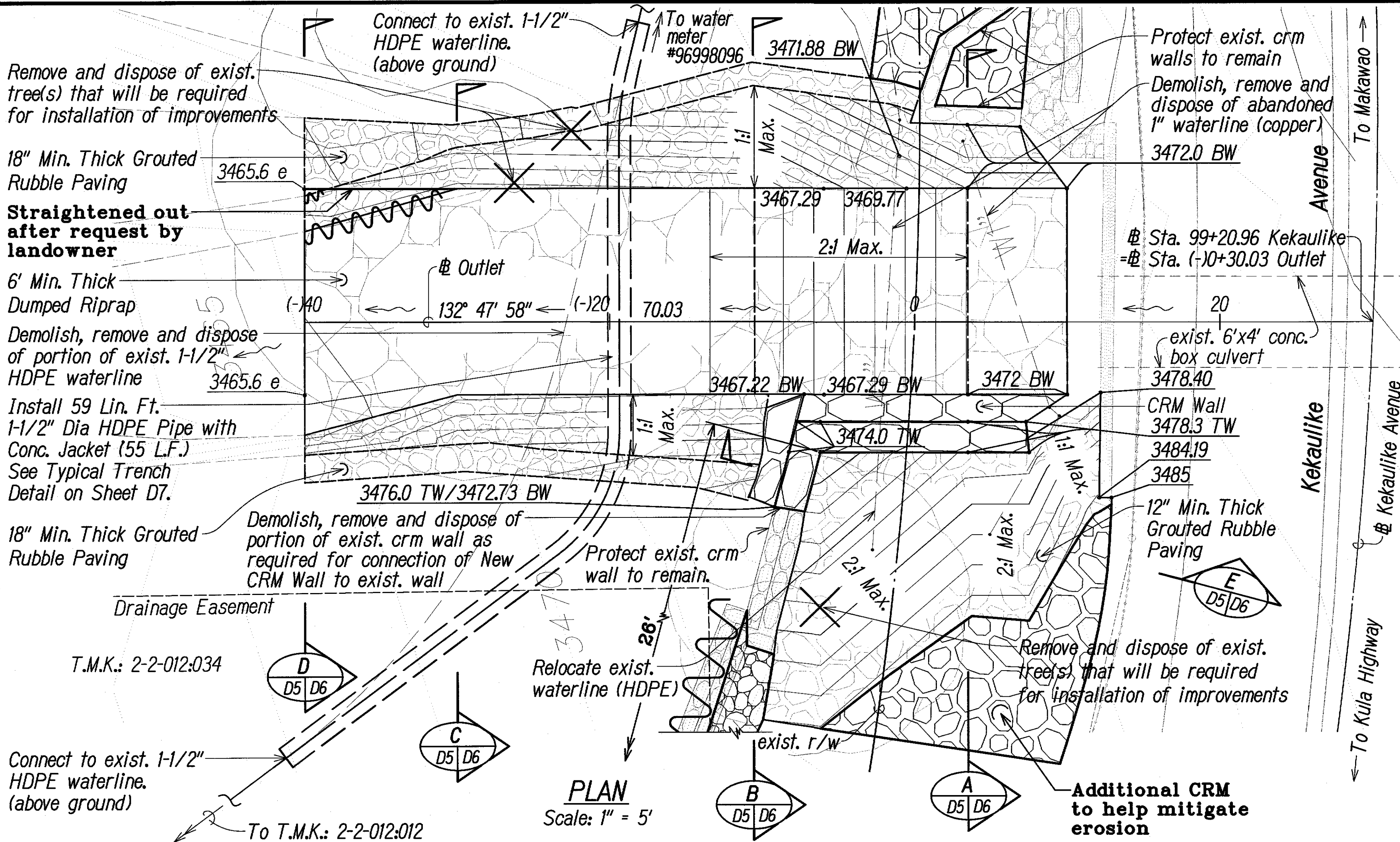
Russell M. Arakaki
ParEn, Inc.
dba PARK ENGINEERING
APRIL 30, 2016
LIC. EXP. DATE

LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRAINAGE PLAN AND PROFILE OUTLET OF 6'X4' BOX CULVERT

KEKAULIKE AVENUE
Drainage Improvements
Mile Post 7.6 to Mile Post 7.9
PROJECT NO. 377A-01-11
Scale: As Shown Date: September 2013
SHEET No. D5 OF D7 SHEETS



"AS-BUILT"