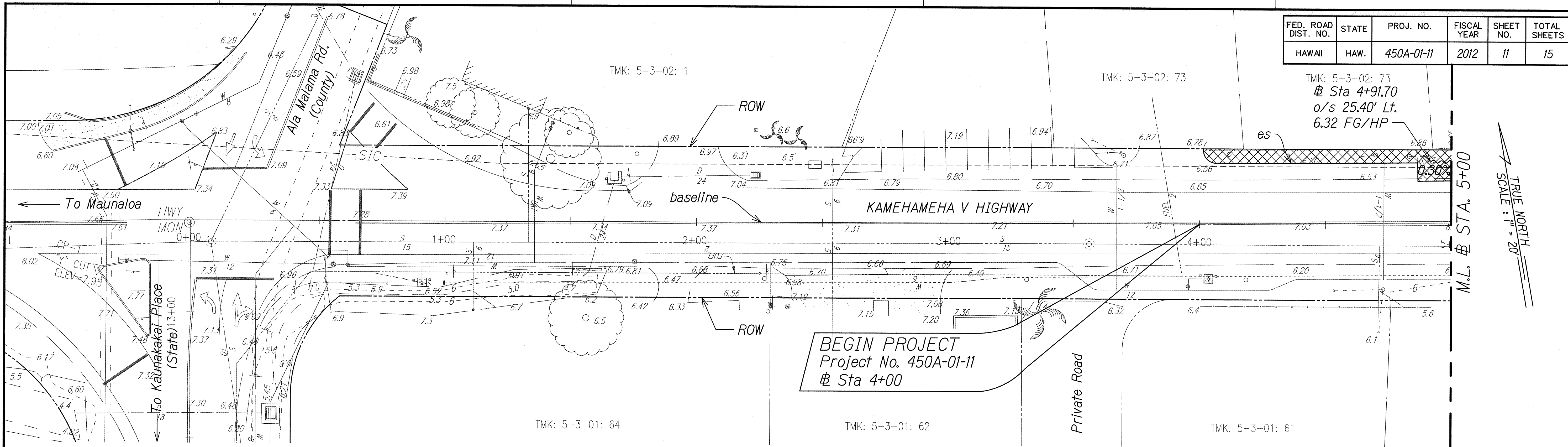
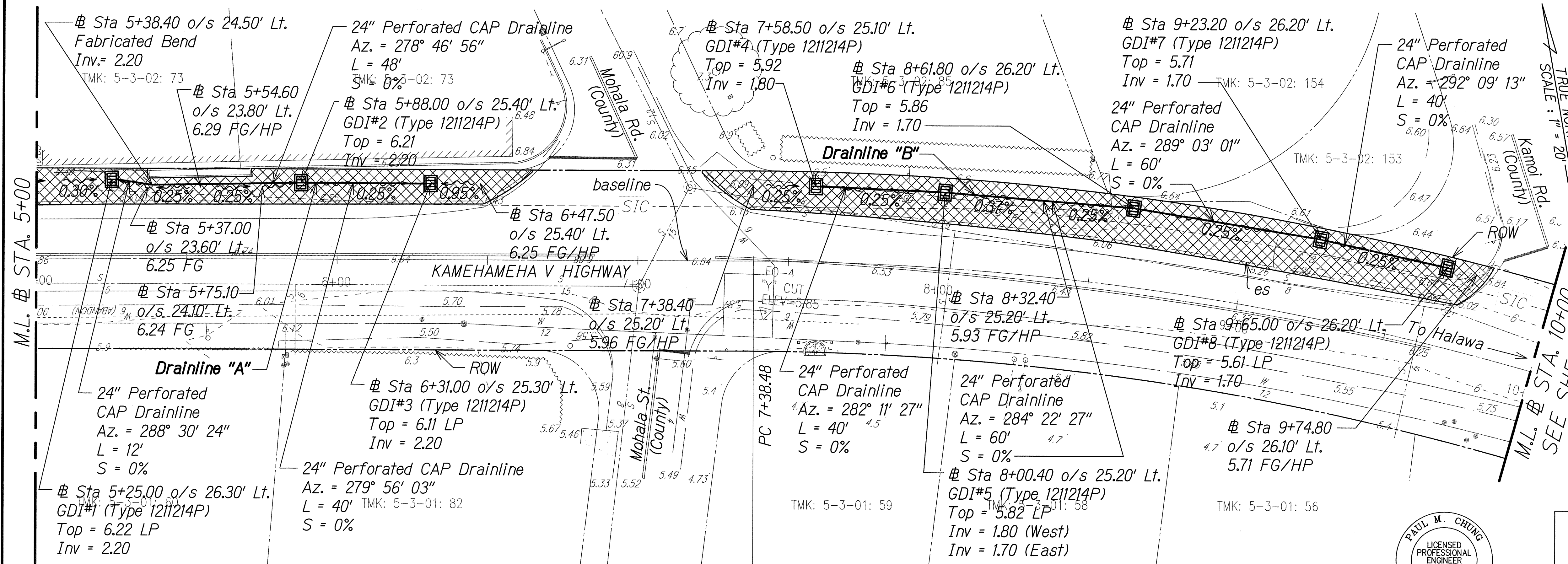


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450A-01-11	2012	11	15



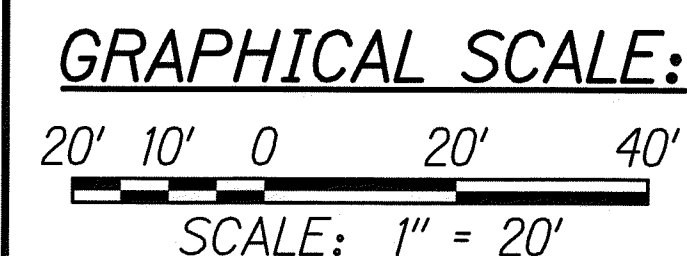
TRUE NORTH
SCALE: 1" = 20'



- NOTES:**
- The Contractor shall restripe the 4" white edge of pavement striping with Type "C" Raised Pavement Markers @ 20' o.c. (Sta 4+00 to Sta 13+50 - Mauka side) at the completion of the paving activities.
 - See detail sheet 15 for the construction of the Type 1211214P Grated Drain Inlets and the perforated CAP drainlines.
 - Location of existing Sandwich Isle Communication (SIC) ductline is obtained from record drawings; however, the Contractor shall verify location prior to construction to ensure a minimum of one (1) foot vertical and two (2) feet horizontal clearance, respectively.

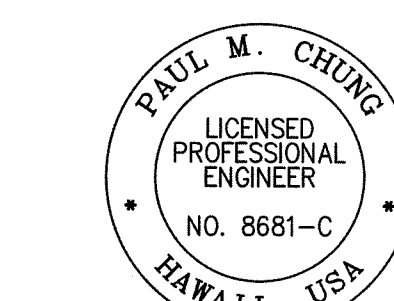
LEGEND:

- New Asphalt Shoulder
- 2" A.C. (Mix IV)
- 6" Aggregate Base Course
- Swale Flow Direction
- (4' Wide Swale, 12H:1V Side Slope)



Grading and Drainage Plan

CURVE DATA
 $\Delta = 31^{\circ}36'59.4"$
 $R = 1145.92'$
 $T = 324.44'$
 $C = 624.34'$
 $L_c = 632.33'$
 $S.E. = 0.02 \text{ ft/ft}$



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE: *Paul M. Chung* 04/30/14
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

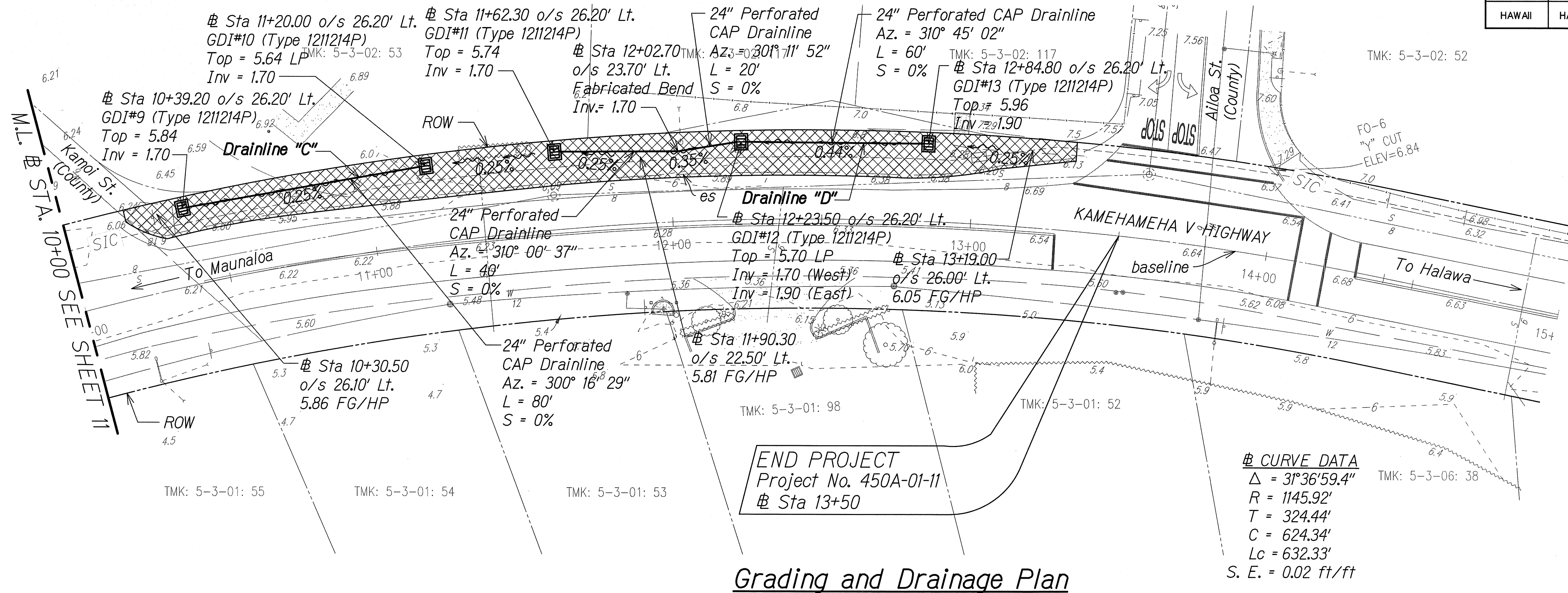
GRADING AND DRAINAGE PLAN

KAMEHAMEHA V HIGHWAY DRAINAGE IMPROVEMENTS
 Vicinity of Mohala Street to Vicinity of Oki Place
 Project No. 450A-01-11

Scale: 1" = 20' Date: May 9, 2012

SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450A-01-11	2012	12	15



NOTES:

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LEGEND:



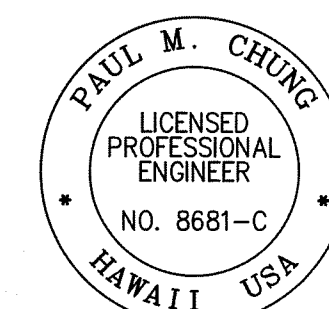
New Asphalt Shoulder
2" A.C. (Mix IV)
6" Aggregate Base Course

Swale Flow Direction
(4' Wide Swale, 12H:1V Side Slope)

GRAPHICAL SCALE:

20' 10' 0 20' 40'

SCALE: 1" = 20'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE

04/30/14
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

KAMEHAMEHA V HIGHWAY DRAINAGE IMPROVEMENTS
Vicinity of Mohala Street to Vicinity of Oki Place

Project No. 450A-01-11

Scale: 1" = 20'

Date: May 9, 2012

SHEET No. 2 OF 2 SHEETS