

LEGEND:

—e—	Existing Electrical Line	°SDMH	Adjusted Storm Drain MH Frame/Cover
—E—	New Electrical Line	∞ bfp	Existing Water Backflow Preventer
°jp	Existing Joint Pole	—s—12—	Existing Sewer Line
°pp	Existing Power Pole	—S—12—	New 12" Sewer Line
°emh	Existing Electric Manhole	°smh	Existing Sewer Manhole
°EMH	Adjusted Elec. MH Frame/Cover	°SMH	Adjusted Sewer MH Frame/Cover
•EMH	New Electric Manhole	•SMH	New Sewer Manhole
—t—	Existing Telephone Line	—g—6—	Existing 6" Gas Line
—T—	New Telephone Line	—G—6—	New 6" Gas Line
°tp	Existing Telephone Pole	°gv	Existing Gas Valve Box
°tmh	Existing Telephone Manhole	°GV	Adjusted Gas Valve Box
°tpl	Existing Telephone Pullbox	•GV	New Gas Valve Box
°TMH	Adjusted Tele. MH Frame/Cover	°gmh	Existing Gas Manhole
•TMH	New Telephone Manhole	°GMH	Adjusted Gas MH Frame/Cover
—sc—	Existing Signal Corps Line	•GMH	New Gas Manhole
—SC—	New Signal Corps Line	°mon.	Existing Monument
—tw—	Existing TV Cable	°MON.	Adjusted Monument
—TV—	New TV Cable	°MON.	New Monument
—w—12—	Existing 12" Water Line	—d—24—	Existing 24" Drain Line
—W—12—	New 12" Water Line	24" RCP	New 24" RCP Drain Line
°wmh	Existing Water Manhole	°sdmh	Existing Storm Drain Manhole
°WMH	Adjusted Water MH Frame/Cover	°SDMH	Adjusted Storm Drain MH Frame/Cover
•WMH	New Water Manhole	•SDMH	New Storm Drain Manhole
°av	Existing Water Air Valve	°gdi	Existing Grated Drop Inlet
°AV	Adjusted Water Air Valve	°cb	Existing Catch Basin
•AV	New Water Air Valve	°	Existing Traffic Sign With 1 Post
°vv	Existing Water Valve Box	°	New Traffic Sign With 1 Post
°VV	Adjusted Water Valve Box	°	Existing Traffic Sign With 2 Posts
•VV	New Water Valve Box	°	New Traffic Sign With 2 Posts
□WM	Existing Water Meter	°	Existing Traffic Sign With 3 Posts
◻WM	Adjusted Water Meter	°	New Traffic Sign With 3 Posts
■WM	New Water Meter	°	Existing Highway Lighting Standard
°fh	Existing Fire Hydrant	°	Existing Single Metal Guardrail
•FH	New Fire Hydrant	°	New Single Metal Guardrail

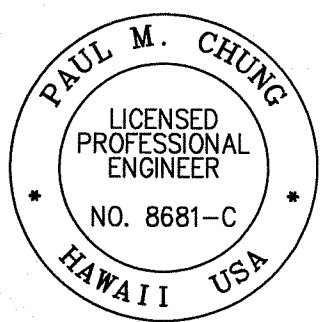
=====	Existing Double Metal Guardrail
=====	New Double Metal Guardrail
-----x-----	Existing Fence
-----■-----	New Fence
°tsb	Existing Traffic Signal Box
□ tsp	Existing Traffic Signal Pole
□ lpb	Existing Street Lamp Pullbox

ABBREVIATION LIST:

AC/A.C.	Asphalt Concrete	R	Radius
Ac	Acre	Rt	Right
ACB	Asphalt Concrete Base	r.o.w./ROW	Right Of Way
Δ	Delta	Sht.	Sheet
Approx.	Approximately	Sta.	Station
B	Baseline	T	Tangent/Thickness
BMP	Best Management Practices	Vert./V	Vertical
C	Chord Length	WV	Water Valve
Cu.	Cubic	Yd.	Yard
Det.	Detail		
D.O.T	Department Of Transportation		
E.P./EP	Edge Of Pavement		
E.S./ES	Edge of Shoulder		
Elev.	Elevation		
exist./ext'g	Existing		
FG	Finished Grade		
Ft.	Foot		
fl	Flowline		
GB	Grade Break		
GDI	Graded Drain Inlet		
Haw.	Hawaii		
HMA	Hot Mix Asphalt		
Horiz./H	Horizontal		
HP	High Point		
HWY	Highway		
Inv.	Invert		
In.	Inch		
Lc	Length Of Curve		
Lt	Left		
Max	Maximum		
Min	Minimum		
MPH/M.P.H.	Miles Per Hour		
No.	Number		
N.T.S.	Not To Scale		
NPDES	National Pollutant Discharge Elimination System		
O.C.	On Center		
O/S	Offset		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450A-01-11	2012	5	15

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
SIGNATURE: [Signature] 04/30/14
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEGEND AND ABBREVIATIONS

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

Scale: _____ Date: May 9, 2012

SHEET No. 1 OF 1 SHEETS