

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36C-01-10	2020	8	35

LEGEND

	Existing 24" Drain Line
	Existing drain inlet
	Existing Street Monument
	Adjusted Street Monument
	Existing Traffic Sign
	New Traffic Sign
	Existing Guardrail
	Existing Chain Link Fence
	Existing Gate
	Existing Tree
	Existing Shrub or Bush
	Existing Ground Elevation
	Finished Grade Elevation
	Existing Ground Contour
	Finished Grade Contour
	Limit of Grading
	Top of Bank (Fill Condition)
	Bottom of Bank
	Top of Bank (Cut Condition)
	Bottom of Bank
	Drainage Flow or Stream Flow Direction

ABBREVIATIONS

AC	Asphaltic Concrete	NB	North Bound
approx.	approximate	NO.	Number
	Baseline	O.C.	on center
bb	Bottom Bank	O/S	Offset
B.V.C.	Begin Vertical Curve	Pavt.	Pavement
BW	Bottom of Wall	PC	Point of Curvature
C	Length of Chord	PCC	Portland Cement Concrete
	Centerline	P.I.	Point of Intersection
CB	Catch Basin	V.C.	Vertical Curve
Clr.	Clearance		Property Line
C.O.	Cleanout	PT	Point of Tangent
CMU	Concrete Masonry Unit	R	Radius
Conc.	Concrete	r/w	Existing Right-of-Way
Conn.	Connection	R/W	New Right-of-Way
C.Y.	Cubic Yards	RC	Reinforced Concrete
Dim.	Dimension	RCP	Reinforced Concrete Pipe
Det.	Details	Rd.	Road
Dia.	Diameter	Refl.	Reflector
Dwgs.	Drawings	Rt.	Right
ep	Existing Edge of Pavement	S	Slope
EP	New Edge of Pavement	SB	South Bound
	existing property line	SE	Superelevation
es	Existing Edge of Shoulder	S/W	Sidewalk
ES	New Edge Of Shoulder	Shldr.	Shoulder
ex.	existing	Sht.	Sheet
exist.	existing	Shts.	Sheets
E.V.C.	End Vertical Curve	SF	square feet
FT	Feet	Sta.	Station
FUT.	Future	Struct.	Structural
GRP	Grouted Rubble Paving	T	Tangent
HGL	Hydraulic Grade Line	tb	Top Bank
Hwy.	Highway	Temp.	Temporary
Inv.	Invert	Thk.	Thick
lbs.	Pounds	TMK	Tax Map Key
Lc	Length of Curve	TW	Top of Wall
LF	Linear Feet	Typ.	Typical
Lt.	Left	VC	Vertical Curve
Max.	Maximum	w8	Existing 8" Water Line
Min.	Minimum	w8	New 8" Water Line
		w12	Existing 12" Water Line
		w12	New 12" Water Line
		w16	Existing 16" Water Line
		w16	New 16" Water Line
		Ø	Diameter
		Δ	Delta
		Δ/2	Half Delta

GENERAL NOTES FOR TRAFFIC CONTROL PLAN:

1. The Permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
2. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
3. Traffic control devices shall be installed such that the sign or device farthest from the work area is placed first. The others shall then be placed progressively towards the work area.
4. Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered. All signs shall be restored upon completion of the work.
5. Flaggers and/or Police Officers shall be in sight of each other or in direct communication at all times.
6. When required by the issuing office, the Permittee shall install a flashing arrow signal as shown on the traffic control plans.
7. All traffic lanes shall be a minimum of 10 feet wide.
8. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
9. The back of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
10. Lane closure shall be limited only to the extent of accomplishing each day's work. As soon as each day's work is completed, the Permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation. Existing faded or obliterated pavement markings that are with temporary or permanent markings before opening the roadway to public traffic each day.
11. Permanent pavement markings and traffic signs shall be replaced upon completion of each phase of work.
12. Cones and delineators shall spaced at a maximum distance of 20 feet apart. a minimum of six channelizing devices shall be used for each taper length.
13. Driveways shall be kept open unless the owners of the property using the right-of-way are otherwise provided for satisfactorily. Further, the Permittee shall control traffic going in and out of driveways.
14. At the end of each day's work or as soon as the work is completed, the Permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation.
15. Replace permanent pavement markings and traffic signs upon completion o each phase of work.
16. All work zone traffic control devices shall comply with the "Statewide Guideline for Work Zone Traffic Control Devices" dated September 13, 2000 and be compliant with chapter 6 of the MUTCD.

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
QUANTITIES BY	
NO.	

Walter G. C. O'Neil
No. 8982-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSULTATION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES, ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS."

SIGNATURE: *Walter G. C. O'Neil* 4/30/22
R. M. TOWELL CORPORATION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**LEGEND, ABBREVIATIONS &
TRAFFIC CONTROL NOTES**

HANA HIGHWAY ROCKFALL
MITIGATION MP12
PROJECT NO. 36C-01-10

Scale: NONE MARCH 2020