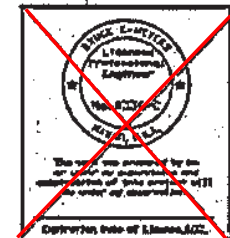


STATE	FEDERAL ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI-SR-2000-	A2	A3

alignment acceleration aggregate ahead algebraic difference in grades alternate and and others and wife and so forth (et cetera) approach approximate asphalt asphalt concrete at average daily traffic back back to back balance point baseline better beam bearing beginning bench mark bottom bridge cast iron cement rubble masonry centerline center to center center channel change chord clear column concrete connection construction construction joint construction sun continuous contracting officer corrugated corrugated metal pipe count county counter-sink crack cubic meter culvert curve left curve right deceleration degree degree Celsius delta Department of Hawaiian Homelands design hour volume design speed detail diagonal diameter diaphragm district Division of Forestry and Wildlife donation land claim drawing(s) duwille iron	dist. accel. appr. AH A alt. + et al of use etc. appr. approx. asph. AC o AUT BK b. to b. BP E br. brg. beg. BM Bot. br. C.I. CRU C co. or c. to c. ctr. ch. ch. chord clear col. conc. conn. constr. constr. jt. constr. sun constr. co. corr. CUP C co. ctsk. crk. cu. m. cu. ft. cu. yd. LT RT Decel. deg. °C Δ DHHL DHV Y Det. diag. dia. or D diaph. Dist. DOFAW DDC drawing(s) DI	east edge of pavement edge of shoulder edge of water edge of road elevation elevation with number embankment Engineer(s) equalization excavation existing expansion joint Federal foot finish flange footing for example galvanized gauge (gauge) Hawaii Department of Transportation Hawaii Electric Light Company headwall heave height hexagon high water highway hot asphalt concrete pavement house homestead entry survey horizontal hydraulic grade line Identification inch inclusive increasing road grade inside diameter inset joint K (length of vert curve per percent change in algebraic difference in grades) kilogram kilometer kilometer per hour inclination latitude left length of curve linear foot longitudinal low water hump cam magnitude maintenance material maximum meter (measurement) metric ton millimeter	E EP ES ET ER elev. EL 94.065 emb. equal. EQ or eq. exc. exist. exp. jt. Fed. ft. fin. fla. Tfg. ex. galv. ga. HDOT HELCO hdw. he. Ht. hex. HW Hwy. HACP hse. HES Horiz. HGR. Idon. incl. incl. GI ID Ins. Jt. L/A kg km km/h len. lat. ft. Lf. long. LW LPSM mag. maint. matl. max. m t mm	mile post miles per hour minutes (angular) minimum miscellaneous modified monument mountain(s) negative not in contract north now not to scale number on center offset original ground out to cut outgoing road grade outside diameter parcel pavement pedestrian percent perforate permanent berm Plan & Profile plate Point-to-Point Training Area point of beginning point of compound curve point of ending point of vertical curve point of vertical intersection point of vertical tangent Portland Cement Concrete point of curve point on curve point of intersection point of spiral to curve point of curve to spiral point on spiral point of spiral to tangent point on tangent point of tangent to spiral point of tangent project Q₁₀ quantities radian radius range reconstruction reinforcement required recorder or Reservation retaining wall right right-of-way road roadway ratio school second (angular) second (time)	MP MPH min. misc. mod. mon. mnt. neg. N.C. N N N.T.S. no. or # O.C. O/S OG o. to o. GZ OD Pa pmt. ped. pct. or % perf. PB PP pl. or pit. PTA POB POC POE PVC PVI PVT P.C.C. PC POC PI PSC or SC PCS or CS POS PST or ST POT PS or TS PT proj. 50-year water runoff quant. rad. R R reconstruct. reinf. req'd. rec. ret. wall Rt. R/W or ROW rd. rdwy. rto. sch. s. 	section sheet sidewalk slope slope protection south spacing, Spaces or Speed specification speed square square meter standard station stiffener straight street stringer structural super-elevation rate super-elevation rate symmetrical s/s tangent tangent length tax map key temporary construction easement temporary bench mark thick thread township typical vehicle per hour velocity vertical vertical point of intersection warehouse weight wood	sec. ch. sidewalk sfp. ct. prot. S spa. spec. spd. sq. m² or m2 std. sta. stiff. str. str. strng. struc. or strutt. SE o sym. signing + striping tan. T TMK TCE TBM la. thk. thd. T. typ. vph V. vert. VPI whs. wt. W
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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CIVILIAN, FEDERAL, LAND-TRUST, BUREAU	
PLAN ABBREVIATIONS	
Scale: N/A	Date: March 10, 2011
SHEET No. 1 OF 2	

CM 005-3

STATE	ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI-3A-2004-9	A3	A3

NATIONAL BOUNDARY	
STATE BOUNDARY	
COUNTY BOUNDARY	
CITY BOUNDARY	
TOWNSHIP or RANGE LINE	
SECTION LINE	
1/4 SECTION LINE	
1/16 SECTION LINE	
NATIONAL PARK or FOREST BOUNDARY	
PROPERTY LINE	
RIGHT-OF-WAY LINE	
RIGHT-OF-WAY LINE WITH MONUMENT	EXISTING PROPOSED
PARTIAL CONTROL OF ACCESS	EXISTING PROPOSED
FULL CONTROL OF ACCESS	EXISTING PROPOSED
EASEMENT (Partially)	
SLOPE STAKE	TOP OF CUT TOE OF FILL
JEOP TRAIL/GRAVEL ROAD	
ROADWAY, EXISTING	
RAILROAD	SINGLE TRACK MULTIPLE TRACK
TRAIL	
INTERMITTENT DRAINAGE & SMALL CREEK	
LARGE CREEK	
RIVER	
CONSTRUCTION LIMITS	
EARTH BERM	
EARTH LINED CHANNEL	
GRADE FIELD ACCESS ROAD	
OBLITERATE EXISTING ROADWAY	
ROLLED EROSION CONTROL PRODUCT, TYPE 2D	
SEDIMENT CONTROL LOGS	
SILT FENCE	
SURVEY CONTROL POINT TIES	
TEMPORARY CONSTRUCTION PARCEL	
WATERLINE	EXISTING PROPOSED
EXISTING WATERLINE TO BE REMOVED WITHIN THE ROW OR ABANDONED OUTSIDE OF ROW	

	EXISTING	PROPOSED
CONTOURS		
FENCE		
GATE WITH FENCE		
CONSTRUCTION FENCE	No Symbol	
CATTLEGUARD		
GUARDRAIL	No Symbol	
MEDIAN & SIDE BARRIER		
SIGNS	POST MOUNTED PORTABLE COMMERCIAL	No Symbol TT wall face
RETAINING WALL		
POWER POLE WITH UTILITY LINE		
TELEPHONE POLE WITH UTILITY LINE		
JOINT USE POLE WITH UTILITY LINES		
SUPPORT POLE WITH ANCHOR		
TELEPHONE BOOTH or PEDESTAL	TB or TP	TB or TP
STREET LIGHT		
UNDERGROUND UTILITIES		
BRIDGE		
PIPE CULVERT (arrow shows flow)		
PIPE CULVERT WITH END SECTION		
PIPE CULVERT WITH HEADWALL		
BOX CULVERT		
CULVERT WITH DROP INLET		
UNDERDRAIN		
TRAVERSE POINT (Horizontal & Vertical) Top of Triangle Points North		No Symbol
TRAVERSE POINT (Horizontal)		No Symbol
GRASS CAP		No Symbol
STEEL PIN		No Symbol
HUB & TACK		No Symbol
SPOT ELEVATION		No Symbol
COORDINATE GRID TICK		No Symbol
BUILDING		
BORING LOCATION		No Symbol

LAKE, POND or RESERVOIR MARSHLAND	
SPRING	
TREELINE, TREE	
BUSH	
MATERIAL SOURCE	
GRAVEL RIPRAP	
PLACED RIPRAP	
	FOUND PROJECTED
SECTION CORNER	35.72 7.6
1/4 SECTION CORNER	15 0.00
1/16 SECTION or PROPERTY CORNER	
PROPERTY CORNER	No Symbol
PARCEL NUMBER	No Symbol 400
NORTH ARROW	

NOTE:
Other symbols used in the plans will be shown in a legend on the appropriate plan sheet.



U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

CONTRACT, FEDERAL AID, HIGHWAY DIVISION

PLAN SYMBOLS

Scale: N/A

Date: March 10, 2004

SHEET No. 2 OF 2

A3