

5:59:04 PM K:\civil\123256 DB Kawela_Nanahu Bridges\Drawings\Base Dwgs

ABBREVIATIONS

	centerline
	curve delta
	and
	at
	baseline
	plus or minus
A	anchor bolt
	abutment
AC	asphaltic concrete
	added
ADT	average daily traffic
	aggregate
	approach
	approximately
	asphalt
B	beginning, begin
BK	back
	boulevard
BM	bench mark
	bottom
BP	balance point
	bridge
	bearing
	balance
BF	back face
BFE	bottom of footing elevation
	beam
BOF	bottom of footing
	between
btwn.	both ways
BW	concrete box culvert
C	center to center
	clear
CMP	corrugated metal pipe
CMU	concrete masonry unit
Co.	county
CO	contracting officer
	column
	concrete
	connect
	construction
	construction joint
	continued
	corrugated
	creek
CRM	concrete rubble masonry
CS	point of curve to spiral
	centers
CTSM	contingent sum
	culvert
CUYD	cubic yard
CF	cubic feet
CFCW	continuous flashing
	compound waterproofing
	cast-in-place
CIP	control joint
CJ	control point
CP	decrement
D	demo
	design hour volume
DHV	drop inlet
DI	diameter
	dia. or D
	diag.
	diaph.
	diaphragm
	distance
	district
	donation land claim
	drawing(s)
	detail
	east
E	superelevation rate
	elevation with number
	elevation
	embankment
	electronic message sign
	engr(s)
EMS	edge of pavement
	EQ or eq.
	equal
ER	edge of road
	and others
	and wife
	existing
	excavation
	expansion joint

	exterior
	each face
	expansion joint
	equal
	eq.
	estimated
	existing
	fill face
F	federal
	flared end section
Fed.	finish
FES	feet
	footing
	fixed
	specified strength of concrete
	far face
FF	finish grade
	fiber reinforced plastic
FRP	gage (gauge)
G	galvanized
	girder
	geosynthetic reinforced soil-integrated bridge system
GRS-IBS	Glass Fiber Reinforced Polymer
	ground
GFRP	grade
	horizontal control line
	headwall
H	homestead entry survey
	hexagon
	horizontal
	high water
HW	highway
	hinge
	height
	inside diameter
ID	inclusive, including
	increment
	interior
	invert
	inbound
	inside face
	inch
	corrugated
J	joint
K	kilopounds
	kip foot
Kip	kips per linear foot
KF	kips per square foot
KIPS	kips per square inch
KSF	length of curve
KSI	lamination
L	latitude
	pounds
	lane
	longitudinal
	lump sum
	left
	low water
	Length
	pound(s)
	lb(s)
	magnetic
mag.	maintenance
	material
	maximum
	minimum
	miscellaneous
	monument
	mountain(s)
	miles per hour
MPH	north
N	normal crown
	negative
	number
	not applicable
	near face
	not in contract
	not to scale
	on centers
	outside diameter
	other face
	operating
	outbound
	opening

DRAINAGE SYMBOLS

Ditch (Existing, Proposed)

Flow Arrow

Drainage or Small Creek

Lake, Pond or Reservoir

Large Creek

Wetland

River

Spring

Bridge (Existing, Proposed)

Box Culvert (Existing, Proposed)

Pipe Culvert (Existing, Proposed)

With End Sections (Existing, Proposed)

With Headwalls (Existing, Proposed)

With Drop Inlet (Existing, Proposed)

Underdrain (Existing, Proposed)

Riprap Apron (Proposed)

EROSION & SEDIMENT CONTROL SYMBOLS

Bonded Fiber Matrix Mulching

Check Dam

Diversion Berm

Erosion Control Mat

Riprap

Sediment Log

Silt Fence

Stabilized Construction Entrance

Temporary Inlet Protection

Compost Sock

FENCE & CATTLEGUARD SYMBOLS

Fence (Existing, Proposed)

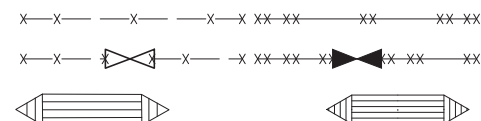
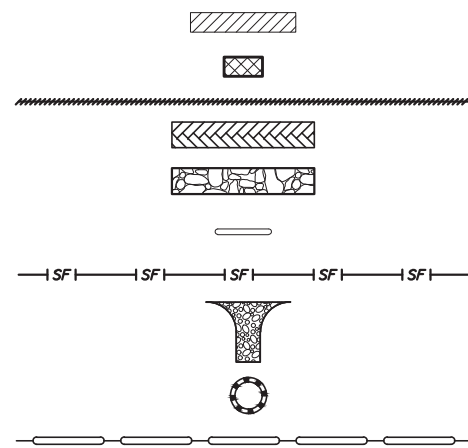
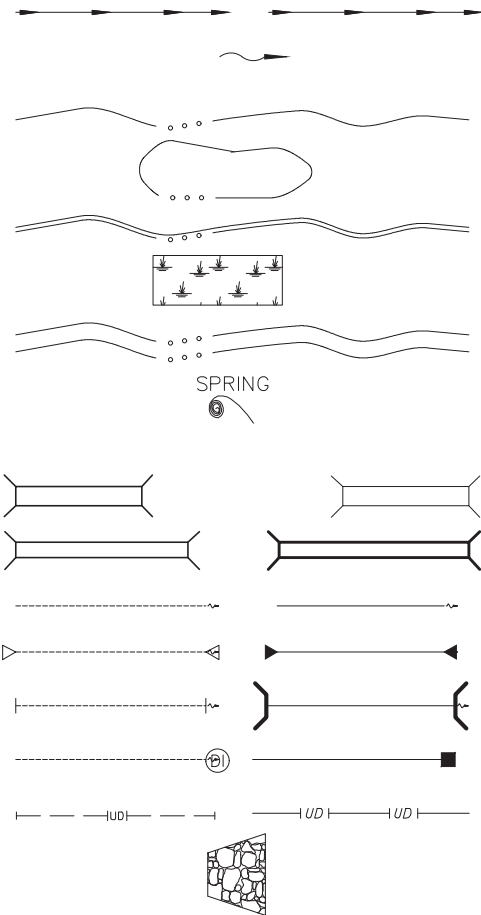
Fence w/ Gate (Existing, Proposed)

Cattleguard (Existing, Proposed)

GEOLOGIC SYMBOLS

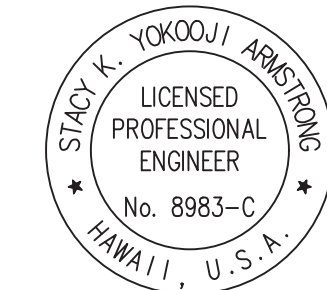
Boring Location (Existing, Proposed)

Material Source



ABBREVIATIONS CONT.

P	point of curve		similar
	point of compound curve		slope
	pounds per cubic foot		stainless steel
PC/PS	precast concrete paving slab		staggered
	permanent easement		stirr.
	pedestrian		steel
	perforate		square yard
	point of intersection		
	plate	T	tangent length
	pounds per linear foot		township
	property line		tangent
	point on curve		temporary bench mark
	point on spiral		temporary construction easement
	point on tangent		transverse
	project		point of tangent to spiral
	pounds per square foot		typical
	pounds per square inch		top and bottom
	point of tangent		to be determined
	point of vertical intersection		top
	pavement		temporary
	polyvinyl chloride		thick
	flow volume		top of footing elevation
	quantities		top of footing
	radius		total
	range		top of wal
	reinforced concrete pipe.		unless noted otherwise
	road		design speed
	roadway		vertical
	reconstruction		vehicles per hour
	reinforcement		vertical point of curve
	required		vertical point of intersection
	reservoir		vertical point of tangent
	Reservation		varies
	retaining wall		very early strength latex modified concrete
	reference hub		
	right		west
	route		with water/cement ratio
	right-of-way		
	reference		
	rear face		
	south		
	seasonal average daily traffic		
	point of spiral to curve		
	section		
	shoulder		
	spacing, Spaces or Spaced		
	specification		
	street		
	point of spiral to tangent		
	station		
	standard		
	stiffener		
	straight		
	structural		
	symmetrical		
	schedule		
	super elevation		
	square feet		
	sheet		
	Sandwich Isles Communication		



EXPIRATION DATE 04/30/2020

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U.S. DEPARTMENT OF TRANSPORTATION
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CONVENTIONAL PLAN
SYMBOLS AND ABBREVIATIONS

Sheet 1 of 2


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LANDSCAPING & VEGETATION SYMBOLS


Tree

Treeline


MAPPING SYMBOLS


Building (Existing, Proposed)


Coordinate Grid Tick


North Arrow


Railroad

Single Track

Double Track


Spot Elevation


Trail


Survey Control Point


RIGHT-OF-WAY SYMBOLS


Boundaries

National


State


County


City


Township or Range Line


Section


1/4 Section


1/16 Section

Bureau of Indian Affairs


Bureau of Land Management


National Forest


National Park


National Wildlife Refuge


Easements

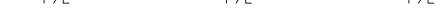
Permanent (Existing)


Permanent (Proposed)


Temporary (Proposed)


Monument (As described)


Parcel Number


Property Line

Right-of-Way Line (Existing)


Right-of-Way Line (Proposed)


Section Corner (Found, Projected)


1/4 Section Corner (Found, Projected)


1/16 Section Corner (Found)

GUARDRAIL, BARRIER & WALL SYMBOLS


Guardrail (Existing, Proposed)

Guardwall (Existing, Proposed)


Median & Side Barrier (Existing, Proposed)


Retaining Wall (Existing, Proposed)


ROADWAY SYMBOLS

Clearing/Construction Limits


Slope Stake Limits


Top of Cut


Transition

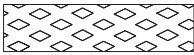
Toe of Fill

Edge of Roadway

Existing

Proposed


Roadway Centerline (With Station ticks)

Roadway Obliteration

SIGN SYMBOLS

Signs

Commercial (Existing, Proposed)


Delineator (Existing, Proposed)


Portable (Proposed)


Post Mounted (Existing, Proposed)


UTILITY SYMBOLS


Irrigation Ditch


Underground (Existing, Proposed)


Surface (Existing, Proposed)

Support Pole (Existing, Proposed)


Support Pole Anchor (Existing, Proposed)


Street Light (Existing, Proposed)


Telephone Booth (Existing, Proposed)


Telephone Pedestal (Existing, Proposed)


Underground Utility (Existing, Proposed)


CATV


Fiber Optic


Gas


Oil

Power


Sanitary Sewer


Storm Drain


Telephone


Water

Overhead Utility Line (Existing, Proposed)

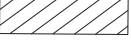
CATV


Fiber Optic


Power

Telephone

PROJECT SPECIFIC SYMBOLS

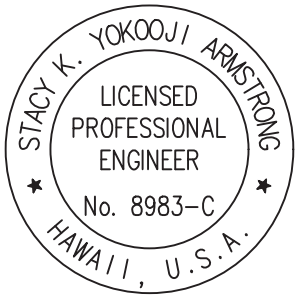
Bridge Demolition Limits on Sht. ## to ##

Existing Waterline Per Plan

Limits of grading/ Limits of disturbed area

STATE	PROJECT	SHEET NO.
HI	HI STP SR 83(1) & (2)	A3

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