

# ABBREVIATIONS

<b>A</b>	abut.	centerline
ADT	average daily traffic	curve delta
aggr.	aggregate	abutment
AH	ahead	
alt.	alternate	
appr.	approach	
asph.	asphalt	
<b>B</b>	b.f.	both faces
beg.	beginning, begin	
BK	back	
BM	bench mark	
BP	balance point	
br.	bridge	
brg.	bearing	
<b>C</b>	CBC	concrete box culvert
c-c	center to center	
clr.	clear	
CMP	corrugated metal pipe	
Co.	county	
col.	column	
conc.	concrete	
constr.	construction	
constr. jt.	construction joint	
cont.	continuous	
corr.	corrugated	
cr.	creek	
CS	point of curve to spiral	
ctrs.	centers	
CTSM	contingent sum	
culv.	culvert	
<b>D</b>	decr.	decrement
DHV	design hour volume	
DI	drop inlet	
dia. or D	diameter	
diag.	diagonal	
diaph.	diaphragm	
dist.	distance	
Dist.	district	
DLC	donation land claim	
dwg(s).	drawing(s)	
<b>E</b>	E	east
e	superlevation rate	
El. 94.066	elevation with number	
elev.	elevation	
emb.	embankment	
engr(s).	Engineer(s)	
EOP	edge of pavement	
EQ or eq.	equation	
ER	edge of road	
et al	and others	
et ux	and wife	
EW	edge of water	
exc.	excavation	
exp. jt.	expansion joint	
ext.	exterior	
<b>F</b>	f.f.	fill face
Fed.	federal	
FES	flared end section	
fin.	finish	
ftg.	footing	
<b>G</b>	ga.	gage (gauge)
galv.	galvanized	
gdr.	girder	
<b>H</b>	hdwl.	headwall
HES	homestead entry survey	
hex.	hexagon	
horiz.	horizontal	
HW	high water	
hwy.	highway	
<b>I</b>	ID	inside diameter
incl.	inclusive, including	
incr.	increment	
int.	interior	
<b>J</b>	jt.	joint

<b>L</b>	L	length of curve
lam.	lamination	
lat.	latitude	
long.	longitudinal	
LPSM	lump sum	
Lt. or LT	left	
LW	low water	
<b>M</b>	mag.	magnetic
maint.	maintenance	
matl.	material	
max.	maximum	
min.	minimum	
mon.	monument	
mntn(s).	mountain(s)	
<b>N</b>	N	north
NC	normal crown	
neg.	negative	
no. or #	number	
<b>O</b>	o.c.	on centers
o.f.	other face	
OD	outside diameter	
<b>P</b>	PC	point of curve
PCC	point of compound curve	
perf.	perforate	
PI	point of intersection	
pl.	plate	
POC	point on curve	
POS	point on spiral	
POT	point on tangent	
proj.	project	
psi	pounds per square inch	
PT	point of tangent	
pvm.	pavement	
quant., Qty	quantities	
<b>R</b>	R	radius
R.	range	
R/W	right-of-way	
rd.	road	
rdwy.	roadway	
reconst.	reconstruction	
reinf.	reinforcement	
reqd.	required	
res.	reservoir	
Res.	Reservation	
ret. wall	retaining wall	
RH	reference hub	
Rt. or RT	right	
rte.	route	
<b>S</b>	S	south
SADT	seasonal average daily traffic	
SC	point of spiral to curve	
sec.	section	
shldr.	shoulder	
spa.	spacing, Spaces or Spaced	
spec.	specification	
st.	street	
ST	point of spiral to tangent	
sta.	station	
std.	standard	
stiff.	stiffener	
str.	straight	
struc.	structural	
sym.	symmetrical	
<b>T</b>	T	tangent length
T.	township	
tan.	tangent	
TBM	temporary bench mark	
TCE	temporary construction easement	
transv.	transverse	
TS	point of tangent to spiral	
typ.	typical	
<b>V</b>	V	design speed
vert.	vertical	
vph	vehicles per hour	
VPI	vertical point of intersection	
<b>W</b>	W	west

## DRAINAGE SYMBOLS

Ditch (Existing, Proposed)

Flow Arrow

Drainage or Small Creek

Lake, Pond or Reservoir

Large Creek

**AS-BUILT DRAWINGS/SPECIFICATIONS**  
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

Spring  
GOODFELLOW BROS., INC.  
Contractor's Name:

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 CONTROL SYMBOLS

Mulching, Bonded Fiber Matrix

Check Dam

Diversion Berm

Erosion Control Mat

Riprap

Sediment Log at:

Culvert Inlet With End Section

Culvert Inlet With Head and/or Wing Walls

Ditch and/or Cut Slope

Drop Inlet

Slope Protection (Wattle)

Silt Fence

## FENCE & CATTLEGUARD SYMBOLS

Fence (Existing, Proposed)

Fence w/ Gate (Existing, Proposed)

Cattleguard (Existing, Proposed)

## GEOLOGIC SYMBOLS

Boring Location (Existing, Proposed)

Material Source

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	A2	A22

## INDEX TO SHEETS

SHEET	DESCRIPTION
A1	TITLE SHEET
A2-A3	CONVENTIONAL PLAN SYMBOLS & ABBREVIATIONS
A4	SITE MAP
A5	SURVEY CONTROL
A6-A17	TYPICAL SECTIONS
A18-A22	SUPERELEVATION DIAGRAMS
B1-B5	SUMMARY OF QUANTITIES
B6	GRADING SUMMARY
B7-B8	SURFACING SUMMARY
B9-B11	DRAINAGE SUMMARY
B12	EROSION CONTROL SUMMARY
B13-B21	PERMANENT SIGN SUMMARY
B22-B23	PERMANENT PAVEMENT MARKING SUMMARY
B24	TRAFFIC CONTROL SUMMARY
B25-B29	MISCELLANEOUS SUMMARIES
C1-C41	SADDLE ROAD PLAN & PROFILE
C42-C44	HWY 190 (MAMALAHOA HWY) PLAN & PROFILE
C45	OLD SADDLE ROAD PLAN & PROFILE
C46-C51	LIGHTNING TRAIL PLAN & PROFILE
C52	MSR ROAD PLAN & PROFILE
D1	204 SPECIAL: APPROACH ROAD CONNECTIONS
D2-D6	APPROACH ROAD PLAN AND PROFILES
E1-E5	SADDLE ROAD EROSION AND SEDIMENT CONTROL PLANS
E6-E7	HWY 190 (MAMALAHOA HWY) EROSION AND SEDIMENT CONTROL PLANS
E8	OLD SADDLE ROAD EROSION AND SEDIMENT CONTROL PLAN
E9-E11	LIGHTNING TRAIL EROSION AND SEDIMENT CONTROL PLAN
E12	MSR ROAD EROSION AND SEDIMENT CONTROL PLAN
E13-E16	157 SPECIALS: EROSION CONTROL BMP'S
E17	157 SPECIAL: PTA QUARRY SITE MAP & HAUL ROADS
F1	C204 STANDARD: EMBANKMENT BENCHING, SERRATED CUT SLOPE, AND FURROW DITCH
F2	211 SPECIAL: ROADWAY OBLITERATION
G1-G4	CULVERT PLAN AND PROFILE
G5-G7	STORM DRAIN PLAN AND PROFILE
G8-G10	251 SPECIALS: RIPRAP
G11	601 SPECIAL: REINFORCED CONCRETE COLLAR
G12	602 STANDARDS: PIPE CULVERT
G13-G17	602 SPECIALS: PIPE CULVERT
G18-G24	604 SPECIALS: DRAINAGE STRUCTURES
G25	608 SPECIAL: RIPRAP WATERWAY IN CURB CUT
M1	SPECIAL 601: CONCRETE PEDESTRIAN PAD DETAILS
S1-S3	GRS-1BS ALTERNATE BRIDGE SHEETS
S4	UNDERPASS GENERAL NOTES
S5	UNDERPASS LAYOUT PLAN AND SECTION
S6	UNDERPASS FOUNDATION LAYOUT PLAN AND SECTION
S7-S8	UNDERPASS SECTIONS AND DETAILS
S9	UNDERPASS WINGWALL AND PRECAST PLANK SECTION AND DETAILS
S10	UNDERPASS SECTIONS AND DETAILS
S11	UNDERPASS BORING LOGS
T1-T4	617 STANDARDS AND 617 STANDARDS: GUARDRAIL
T5-T7	619 SPECIAL: FIREBREAK FENCE AND GATE DETAILS
T8	621 SPECIAL: RIGHT-OF-WAY SURVEY MONUMENT DETAILS
T9-T49	SADDLE ROAD SIGNING & STRIPING PLANS
T50-T52	HWY 190 (MAMALAHOA HWY) SIGNING & STRIPING PLANS
T53	OLD SADDLE ROAD SIGNING & STRIPING PLANS
T54	SADDLE ROAD REGIONAL SIGNING PLAN
T55-T79	633 SPECIALS: SIGNS
T80-T84	634 SPECIALS: PAVEMENT MARKERS & STRIPING
T85-T86	635 TEMPORARY TRAFFIC CONTROL PLANS
T87-T98	635 STANDARDS: TEMPORARY TRAFFIC CONTROL
T99-T101	635 SPECIALS: TEMPORARY TRAFFIC CONTROL SIGNING



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Daniel A. Liddle  
Expiration Date of License 4/30/2014

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

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## CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS

Sheet 1 of 2



## LANDSCAPING & VEGETATION SYMBOLS

Tree

Treeline

## MAPPING SYMBOLS

Building (Existing, Proposed)

Coordinate Grid Tick

North Arrow

Railroad

Single Track

Double Track

Spot Elevation

Trail

Traverse Point (Horizontal & Vertical)

## 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

Construction & Maintenance

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)

## 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

Telephone

Water

Overhead Utility Line (Existing, Proposed)

CATV

Fiber Optic

Power

Telephone

## MISCELLANEOUS SYMBOLS

## PROJECT SPECIFIC SYMBOLS

Proposed Storm Drain (SD)

Proposed Manhole

Proposed Drop Inlet

Proposed Earth Berm

Proposed Curb Cut

Proposed Asphalt Curb

Approx. Limits of A'A Lava Flow

Potential Staging  
and Storage Area

## AS-BUILT DRAWINGS/SPECIFICATIONS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODEFELLOW BROS., INC.  
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



This work was prepared by me  
or under my supervision

*Daniel A. Liddle*

Expiration Date of License 4/30/2014

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## CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS

Sheet 2 of 2