

4/2/2015 8:13:55 AM N:\CFL-DPT\Teams\Sample Plans\SamplePlanUpdates\4R Sample Sheets\A-Gen\_sht\SYM(MAIN)\Sample\_4R.dgn User: doug.w.smith\_

CFL SAMPLE PLAN SHEET

### ABBREVIATIONS

∅	centerline
Δ	curve delta
∅	diameter
<b>A</b> abut.	abutment
ADT	average daily traffic
aggr.	aggregate
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	superelevation 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
mtn(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
pvmt.	pavement
<b>Q</b> 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

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

Rolled Erosion Control Product

Riprap

Fiber Roll (Ditch and/or Cut Slope)

Silt Fence

Temporary Inlet Protection

Fiber Roll (Slope Protection)

### 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 NUMBER
	ST	PROJECT NUMBER PROJECT NAME	A2

**INDEX TO SHEETS (CONTINUED FROM SHEET A1)**

SHEET	DESCRIPTION
X1	CROSS SECTION TITLE SHEET (SEPARATE PACKAGE)
X2-X58	MAINLINE CROSS SECTIONS
Y1-Y6	APPROACH ROAD CROSS SECTIONS
Z1-Z5	CULVERT CROSS SECTIONS

Use FP-14 border

Index to Sheets continued onto sheet A2 if necessary.

A template for the Symbols Sheet is available on the FLH website at <http://flh.fhwa.dot.gov/resources/design/plans/cfl/template/fp14/>. It is expected that this template will be revised to incorporate project-specific information.

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

**CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS**

Sheet 1 of 2