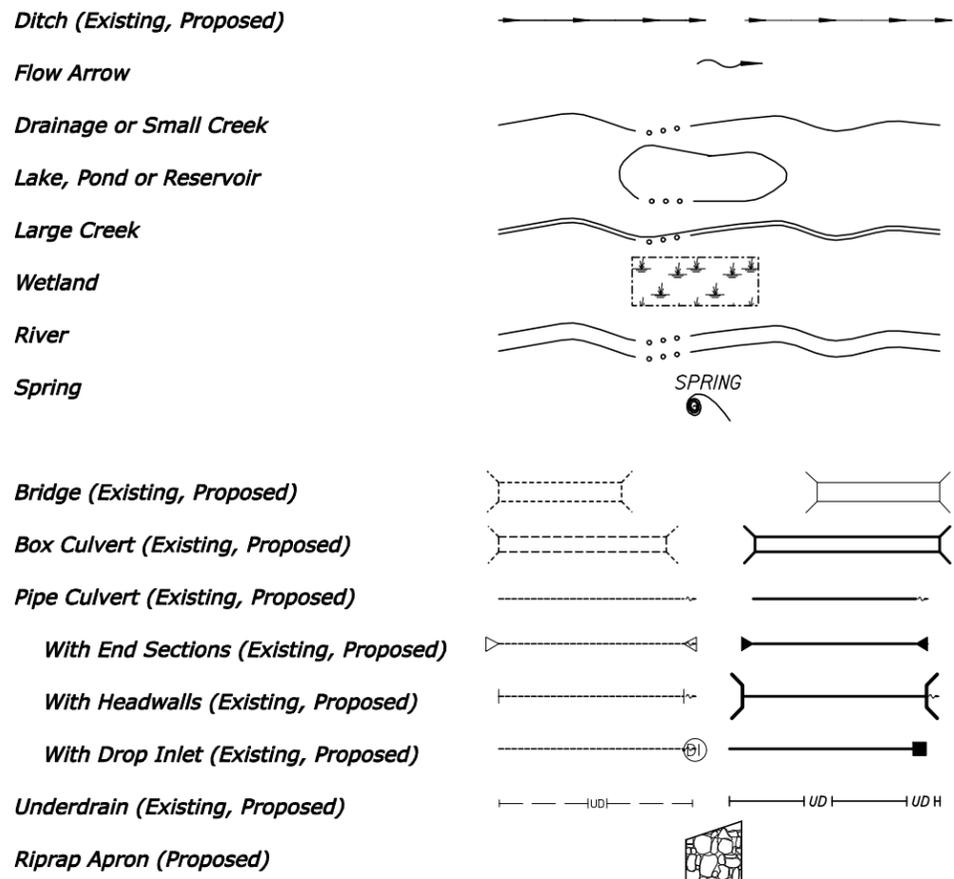


ABBREVIATIONS

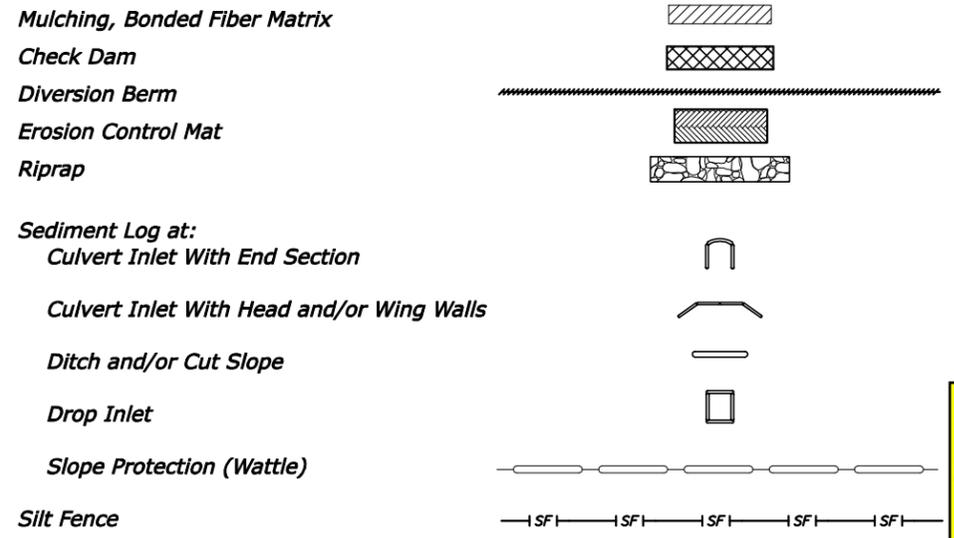
A abutment	abut.
aggregate	aggr.
ahead	AH
alternate	alt.
and others	et al
and wife	et ux
approach	appr.
asphalt	asph.
average daily traffic	ADT
B back	BK
balance point	BP
bearing	brg.
beginning, begin	beg.
bench mark	BM
both faces	b.f.
bridge	br.
C centerline	CL
center to center	c-c
centers	ctrs.
clear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

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

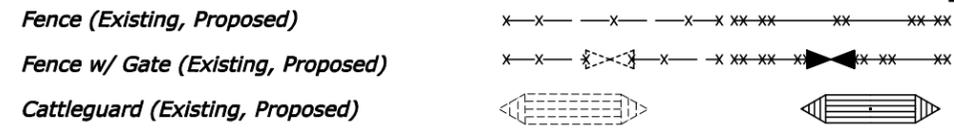
DRAINAGE SYMBOLS



EROSION CONTROL SYMBOLS



FENCE & CATTLEGUARD SYMBOLS



GEOLOGIC SYMBOLS



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
REG	ST	PROJECT NUMBER PROJECT NAME	A2	A12

INDEX TO SHEETS (CONTINUED FROM SHEET A1)	
SHEET	DESCRIPTION
T17-T18	611-A FIRE HYDRANT
T19	615-1 ACCESSIBILITY RAMP
T20	615-A SIDEWALK
T36-T37	633-A PERMANENT SIGN MOUNTING
T38	634-A PAVEMENT MARKINGS
T39	635 BOX CAR WASH DIVERSION LAYOUT
T40-T45	635 TEMPORARY TRAFFIC CONTROL STANDARDS
T46-T48	LIGHTING DETAILS
X1	CROSS SECTION TITLE SHEET (SEPARATE PACKAGE)
X2-X31	PRA LAME 1(6) MAINLINE CROSS SECTIONS
X32-X45	PRA LAME 1(7) & 2(1) MAINLINE CROSS SECTIONS
Y1-Y5	BROADVIEW PARKING AREA CROSS SECTIONS
Y6-Y18	REDSTONE PARKING AREA CROSS SECTIONS
Y19-Y28	BOXCAR WASH DIVERSION CROSS SECTIONS
Z1-Z8	CULVERT CROSS SECTIONS

Index to Sheets continued onto sheet A2 if necessary.

A template for the Symbols Sheet is available on the CFL website at <http://www.cflhd.gov/design/TemplateFiles/>. It is expected that this template will be revised to incorporate project-specific information.

Refer to the CFL policy on Sealing and Signing of A/E Documents (located on the CFL website: http://www.cflhd.gov/Project_Management/Documents/policies/sealing-signing-policy.pdf)

Show the NPS PMIS number for NPS projects.



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

U.S. CUSTOMARY

**CONVENTIONAL PLAN
SYMBOLS AND ABBREVIATIONS**

Sheet 1 of 2