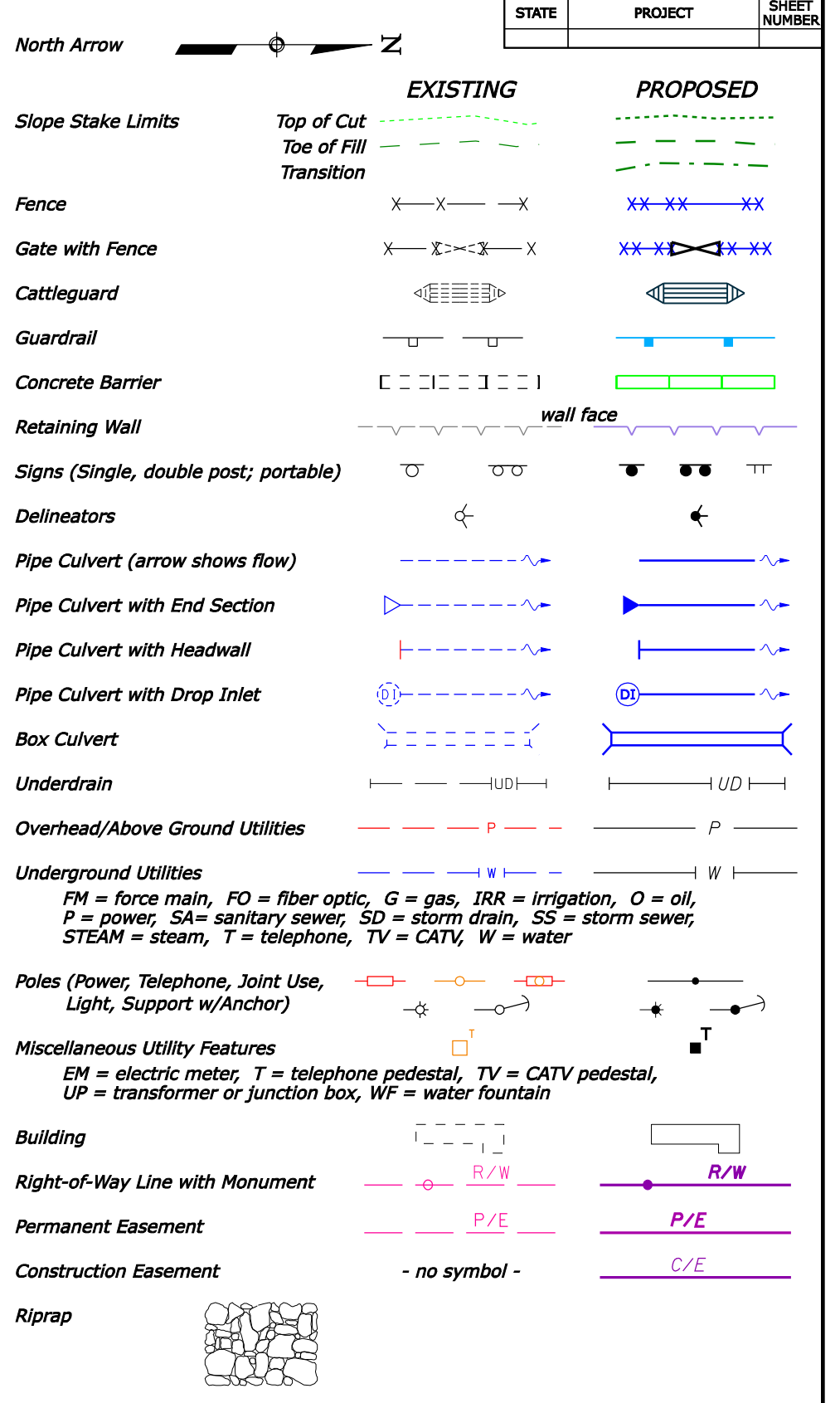
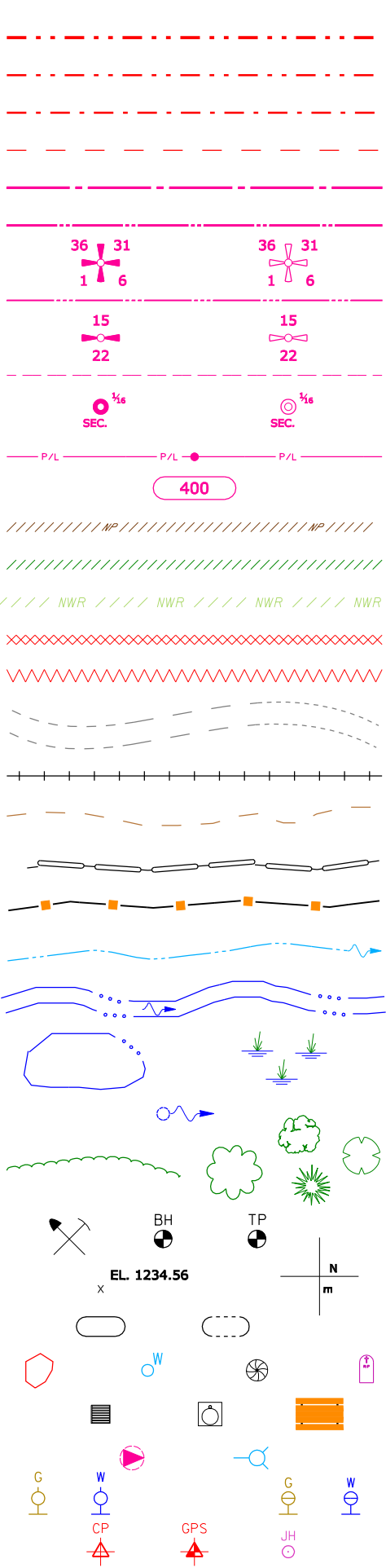


$\Delta$	total central angle	M.L.	main line
$\Delta c$	curve central angle	M.P.	mile post
$\emptyset$	diameter	matl.	material
$\theta_s$	spiral central angle	max.	maximum
abut.	abutment	MGAL	thousand gallon
ADT	average daily traffic	min.	minimum
AH	ahead	mon.	monument
appr.	approach	N	north
BK	back	NC	normal crown
BM	bench mark	o. c.	on center
BP	balance point	o. to o.	out to out
br.	bridge	OD	outside diameter
brg.	bearing	OG	original ground
cc or c. to c.	center to center	PC	point of curve
$\text{¢}$	centerline	PCC	point of compound curve
clr.	clear	PCS	point of curve to spiral
CMP	corrugated metal pipe	PI	point of intersection
col.	column	pl.	plate
conc.	concrete	POC	point on curve
conn.	connection	POS	point on spiral
constr. jt.	construction joint	POT	point on tangent
cont.	continuous	PS	point of tangent to spiral
CS	point of curve to spiral	PSC	point of spiral to curve
ctrs.	centers	PST	point of spiral to tangent
CUFT	cubic foot (feet)	PT	point of tangent
culv.	culvert	pvmt.	pavement
CUYD	cubic yard(s)	R	radius
D	diameter	R.	range
DHV	design hourly volume	R/W	right-of-way
dia.	diameter	rdwy.	roadway
diag.	diagonal	reinf.	reinforcement
diaph.	diaphragm	reqd.	required
dist.	distance	rt. or RT	right
drwg(s).	drawing(s)	rte.	route
E	east	S	south
e	superelevation rate	SADT	seasonal average daily traffic
El. 94.16 ft	elevation with number	SC	point of spiral to curve
elev.	elevation	sec.	section
emb.	embankment	shldr.	shoulder
EP	edge of pavement	SLRY	slurry unit
EQ or eq.	equation	spa.	spacing, spaces or spaced
ER	edge of road	SQFT	square foot
EW	edge of water	SQYD	square yard
exc.	excavation	SRS	point of spiral to reverse spiral
exp. jt.	expansion joint	SS	point of spiral to spiral (no curve)
fin.	finish	ST	point of spiral to tangent
fig.	flange	STA, Sta.	station
ft2	square foot	std.	standard
ft3	cubic foot (feet)	str.	stringer
ftg.	footing	stiff.	stiffener
ga.	gage (gauge)	struc.	structural
galv.	galvanized	STS	point of spiral to tangent spiral
hdwl.	headwall	sym.	symmetrical
hex.	hexagon	T	tangent distance
HW	high water	T.	township
ID	inside diameter	TBM	temporary bench mark
jt.	joint	thd.	thread
L	length of curve	TS	point of tangent to spiral
lam.	lamination	Ts	tangent distance (spiraled curve)
lat.	latitude	typ.	typical
LNFT	linear foot (feet)	V	design speed
long.	longitudinal	vph	vehicles per hour
LPSM	lump sum	VPI	vertical point of intersection
Ls	length of spiral	W	west
lt. or LT	left	yd2	square yard
LW	low water	yd3	cubic yard(s)

M.L.	main line	National Boundary	-----
M.P.	mile post	State Boundary	-----
matl.	material	County Boundary	-----
max.	maximum	City Boundary	-----
MGAL	thousand gallon	Township or Range Line	-----
min.	minimum	Section Line	-----
mon.	monument	Section Corner (Found, Projected)	
N	north	1/4 Section Line	-----
NC	normal crown	1/4 Section Corner (Found, Projected)	
o. c.	on center	1/16 Section Line	-----
o. to o.	out to out	1/16 Section Corner (Found, Projected)	
OD	outside diameter	Property Line w/Found Property Corner	-----
OG	original ground	Parcel Number	
PC	point of curve	National Park Boundary	////// NP ////
PCC	point of compound curve	National Forest Boundary	////// NFR ////
PCS	point of curve to spiral	National Wildlife Refuge Boundary	////// NWR ////
PI	point of intersection	BLM Lands Boundary	XXXXXX
pl.	plate	Indian Reservation Boundary	~~~~~
POC	point on curve	Existing Roadway (Road, Paved, Gravel)	-----
POS	point on spiral	Railroad	-----
POT	point on tangent	Trail	-----
PS	point of tangent to spiral	Wattle	-----
PSC	point of spiral to curve	Silt Fence	-----
PST	point of spiral to tangent	Intermittent Drainage or Small Creek	-----
PT	point of tangent	Large Creek or River	-----
pvmt.	pavement	Lake, Pond or Reservoir; Marshland	-----
R	radius	Spring or Seep	-----
R.	range	Treeline; Individual Trees	-----
R/W	right-of-way	Material Source; Bore Hole; Test Pit	-----
rdwy.	roadway	Spot Elevation; Coordinate Grid Tick	-----
reinf.	reinforcement	Above Ground Tank; Underground Tank	-----
reqd.	required	Boulder; Well; Satellite Dish; Grave	-----
rt. or RT	right	Cooking Grate; Garbage Can; Picnic Table	-----
rte.	route	Flagpole; Fire Hydrant	-----
S	south	Gas & Water Meter; Gas & Water Valve	-----
SADT	seasonal average daily traffic	Control Point (Terrestrial and GPS); Jump Hub	-----
SC	point of spiral to curve		
sec.	section		
shldr.	shoulder		
SLRY	slurry unit		
spa.	spacing, spaces or spaced		
SQFT	square foot		
SQYD	square yard		
SRS	point of spiral to reverse spiral		
SS	point of spiral to spiral (no curve)		
ST	point of spiral to tangent		
STA, Sta.	station		
std.	standard		
str.	stringer		
stiff.	stiffener		
struc.	structural		
STS	point of spiral to tangent spiral		
sym.	symmetrical		
T	tangent distance		
T.	township		
TBM	temporary bench mark		
thd.	thread		
TS	point of tangent to spiral		
Ts	tangent distance (spiraled curve)		
typ.	typical		
V	design speed		
vph	vehicles per hour		
VPI	vertical point of intersection		
W	west		
yd2	square yard		
yd3	cubic yard(s)		

National Boundary	-----
State Boundary	-----
County Boundary	-----
City Boundary	-----
Township or Range Line	-----
Section Line	-----
Section Corner (Found, Projected)	
1/4 Section Line	-----
1/4 Section Corner (Found, Projected)	
1/16 Section Line	-----
1/16 Section Corner (Found, Projected)	
Property Line w/Found Property Corner	-----
Parcel Number	
National Park Boundary	////// NP ////
National Forest Boundary	////// NFR ////
National Wildlife Refuge Boundary	////// NWR ////
BLM Lands Boundary	XXXXXX
Indian Reservation Boundary	~~~~~
Existing Roadway (Road, Paved, Gravel)	-----
Railroad	-----
Trail	-----
Wattle	-----
Silt Fence	-----
Intermittent Drainage or Small Creek	-----
Large Creek or River	-----
Lake, Pond or Reservoir; Marshland	-----
Spring or Seep	-----
Treeline; Individual Trees	-----
Material Source; Bore Hole; Test Pit	-----
Spot Elevation; Coordinate Grid Tick	-----
Above Ground Tank; Underground Tank	-----
Boulder; Well; Satellite Dish; Grave	-----
Cooking Grate; Garbage Can; Picnic Table	-----
Flagpole; Fire Hydrant	-----
Gas & Water Meter; Gas & Water Valve	-----
Control Point (Terrestrial and GPS); Jump Hub	-----



NO SCALE

**NOTE:**  
1. 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  
WESTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL  
**PLAN SYMBOLS AND ABBREVIATIONS**

DETAIL APPROVED FOR USE 11/2001  
REVISED: 9/2005 1/2007

DETAIL  
W101-1