

F:\StandDraw\Western\w1011A.dgn [Metric]

STATE	PROJECT	SHEET NUMBER
Δ	total central angle	
Δc	curve central angle	
\emptyset	diameter	
θ_s	spiral central angle	
abut.	abutment	
ADT	average daily traffic	
AH	ahead	
appn.	approach	
BK	back	
BM	bench mark	
BP	balance point	
br.	bridge	
brg.	bearing	
cc or c. to c.	center to center	
ℓ	centerline	
clr.	clear	
CMP	corrugated metal pipe	
col.	column	
conc.	concrete	
conn.	connection	
constr. jt.	construction joint	
cont.	continuous	
CS	point of curve to spiral	
ctrs.	centers	
culv.	culvert	
D	diameter	
DHV	design hourly volume	
dia.	diameter	
diag.	diagonal	
diaph.	diaphragm	
dist.	distance	
drwg(s).	drawing(s)	
E	east	
e	superelevation rate	
El. 94.061 m	elevation with number	
elev.	elevation	
emb.	embankment	
EP	edge of pavement	
EQ or eq.	equation	
ER	edge of road	
EW	edge of water	
exc.	excavation	
exp. jt.	expansion joint	
fin.	finish	
flg.	flange	
ftg.	footing	
ga.	gage (gauge)	
galv.	galvanized	
hdwl.	headwall	
hex.	hexagon	
HW	high water	
ID	inside diameter	
jt.	joint	
K.P.	kilometer post	
L	length of curve	
lam.	lamination	
lat.	latitude	
long.	longitudinal	
LPSM	lump sum	
Ls	length of spiral	
lt. or LT	left	
LW	low water	
M.L.	main line	
M.P.	mile post	
m ²	square meter	
m ₃	cubic meter	
matl.	material	
max.	maximum	
min.	minimum	
mon.	monument	
N	north	
NC	normal crown	
o. c.	on center	
o. to o.	out to out	
OD	outside diameter	
OG	original ground	
PC	point of curve	
PCC	point of compound curve	
PCS	point of curve to spiral	
PI	point of intersection	
pl.	plate	
POC	point on curve	
POS	point on spiral	
POT	point on tangent	
PS	point of tangent to spiral	
PSC	point of spiral to curve	
PST	point of spiral to tangent	
PT	point of tangent	
pvmt.	pavement	
R	radius	
R.	range	
R/W	right-of-way	
rdwy.	roadway	
reinf.	reinforcement	
reqd.	required	
rt. or RT	right	
rte.	route	
S	south	
SADT	seasonal average daily traffic	
SC	point of spiral to curve	
sec.	section	
shldr.	shoulder	
slry	slurry unit	
spa.	spacing, spaces or spaced	
SRS	point of spiral to reverse spiral	
SS	point of spiral to spiral (no curve)	
ST	point of spiral to tangent	
Sta.	station	
std.	standard	
stgr.	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	
NATIONAL BOUNDARY		
STATE BOUNDARY		
COUNTY BOUNDARY		
CITY BOUNDARY		
TOWNSHIP or RANGE LINE		
SECTION LINE		
$\frac{1}{4}$ SECTION LINE		
$\frac{1}{16}$ SECTION LINE		
NATIONAL PARK or FOREST BOUNDARY		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EXISTING		
PROPOSED		
RIGHT-OF-WAY LINE with MONUMENT		
EXISTING		
PROPOSED		
EASEMENT (Permanent; Non-Permanent)		
P/E		
C/E		
SLOPE STAKE		
TOP OF CUT		
TOE OF FILL		
TRANSITION		
ROADWAY, EXISTING		
RAILROAD		
SINGLE TRACK		
MULTIPLE TRACK		
WATTLE		
SILT FENCE		
TRAIL		
INTERMITTENT DRAINAGE and SMALL CREEK		
LARGE CREEK/RIVER		
LAKE, POND or RESERVOIR; MARSHLAND		
SPRING		
TREELINE; TREE		
MATERIAL SOURCE		
FOUND		
PROJECTED		
SECTION CORNER		
36 31 1 6		
15 22 22		
1/4 SECTION CORNER		
●		
PROPERTY CORNER		
●		
PARCEL NUMBER		
No Symbol		
400		
NOTE:		
1. Other symbols used in the plans will be shown in a legend on the appropriate plan sheet.		
2. Dimensions in this plan set are in millimeters unless otherwise noted.		
NORTH ARROW		
EXISTING		
PROPOSED		
FENCE		
X—X—X		
XX—XX—XX		
GATE with FENCE		
X—X▷X—X		
CATTLEGUARD		
<—E E E E E —>		
GUARDRAIL		
—□—□—□—		
SIGNS		
Post mounted, single		
○		
Post mounted, double		
○○		
Portable		
—■—		
No Symbol		
RETAINING WALL		
wall face		
POWER POLE UTILITIES		
P=power, T=telephone		
P —○— P		
UNDERGROUND UTILITIES		
G=gas, O=oil, P=power, SA=sanitary sewer, SS=storm sewer, T=telephone, W=water		
— I P — — I P —		
SUPPORT POLE with ANCHOR		
—○—		
TELEPHONE BOOTH or PEDESTAL		
□ TB or TP		
■ TB or TP		
STREET LIGHT		
○ ○		
BRIDGE		
)---(
PIPE CULVERT (arrow shows flow)		
-----~		
PIPE CULVERT with END SECTION		
-----~		
PIPE CULVERT with HEADWALL		
-----~		
BOX CULVERT		
)---(
CULVERT with DROP INLET		
○-----~		
UNDERDRAIN		
H —UDI— H		
H —UD— H		
CONTROL POINT		
CP 12345		
SURVEY MONUMENT		
▲		
HUB & TACK		
○		
SPOT ELEVATION		
x EL. 1234.56 ft		
COORDINATE GRID TICK		
N m		
BUILDING		
)---(
BORING LOCATION		
●		
RIPRAP		
No Symbol		
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION WESTERN FEDERAL LANDS HIGHWAY DIVISION		
METRIC DETAIL PLAN SYMBOLS AND ABBREVIATIONS		
DETAIL APPROVED FOR USE 11/2001		
REVISED: 9/2005 1/2007 6/2007		
WM101-1A		