<u></u> Дс	total central angle curve central angle	M.L. M.P.	main line mile post	National Boundary			
Ø θs	diameter	matl.	material maximum	State Boundary			North Arrow
	spiral central angle	max. MGAL	thousand gallon	,			Slope Stake Limits
abut. ADT AH	abutment average daily traffic ahead	min. mon.	minimum monument	County Boundary City Boundary			Construction Limits
appr.	approach	N	north				
BK	back	NC	normal crown	Township or Range Line			Bottom of Ditch
b.f. BM	back face bench mark	0.c. 0. to 0.	on center out to out	Section Line	36 🛛 31	36 \[7 31	Fence
BP br.	balance point bridge	OD OG	outside diameter original ground	Section Corner (Found, Projected)	36 31 1 6		Gate with Fence
brg.	bearing	OHWM	ordinary high water mark	<sup>1</sup> ⁄ <sub>4</sub> Section Line	15	15	Cattleguard
btwn	between	PC	point of curve	<sup>1</sup> / <sub>4</sub> Section Corner (Found, Projected)	22	22	
cc or c. to c. ⊈	center to center centerline	PCC PCS	point of compound curve point of curve to spiral	<sup>1</sup> / <sub>16</sub> Section Line			Guardrail
clr. CMP	clear corrugated metal pipe	PI	point of intersection	<sup>1</sup> / <sub>16</sub> Section Corner (Found, Projected)	<b>0</b> <sup>1/16</sup>	© <sup>1⁄16</sup>	Concrete Barrier and Gu
col.	column	pl. POC	plate point on curve	Property Line	SEC.	SEC.	Retaining Wall
conc. conn.	concrete connection	POS POT	point on spiral point on tangent	Parcel Number		400	_
constr. jt. cont.	construction joint continuous	PS	point of tangent to spiral				Signs (single, double po
CS	point of curve to spiral	PSF PSI	pounds per square foot pounds per square inch	National Park Boundary	////////NP////////////////////////////	////////NP////////////////////////////	Delineators
ctrs. CUFT	centers cubic foot (feet)	PSC PST	point of spiral to curve point of spiral to tangent	National Forest Boundary			Pipe Culvert (arrow show
culv. CUYD	culvert cubic yard(s)	PT	point of tangent	National Wildlife Refuge Boundary	//// NWR //// NWR /	//// NWR //// NWR ////	
D	diameter	pvmt.	pavement	BLM Lands Boundary	***************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Pipe Culvert with End Se
DHV	design hourly volume	R   R.	radius range	Indian Reservation Boundary	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Pipe Culvert with Headw
dia. diaph.	diameter diaphragm	R/W	right-of-way	Existing Roadway (Paved, Gravel)			Pipe Culvert with Drop I
dist. drwg(s).	distance drawing(s)	rdwy. reinf.	roadway reinforcement		```		Box Culvert
F	east	reqd. rt. or RT	required right	Railroad	+ + + + + + + + + + + + + + + + + + + +		
e e.f.	superelevation rate each face	rte.	route	Trail		~~_	Underdrain
El. 94.16	elevation in feet	S	south				Overhead/Above Ground
elev. emb.	elevation embankment	SADT SC	seasonal average daily traffic point of spiral to curve	Fiber Roll			Underground Utilities
EOP EQ or eq.	edge of pavement equation	sect. shldr.	section shoulder	Silt Fence			FM = force main, F
EQ 07 EQ. EW	edge of water	SLRY	slurry unit	Sandbag			P = power, SA = s STEAM = steam, T
exc. exp. jt.	excavation expansion joint	spa. SQFT	spacing, spaces or spaced square foot	Intermittent Drainage or Small Creek			Poles (Power, Telephone
f.f.	front face	SÕYD SRS	square yard point of spiral to reverse spiral	Internation Dramage of Sman Creek			Light, Support w/
fin. flg.	finish flange	SS	point of spiral to spiral (no curve)	Large Creek or River			Miscellaneous Utility Fea
ftg.	footing	ST STA, Sta.	point of spiral to tangent station		°.	- <u>k</u>	EM = electric meter
ga.	gage (gauge)	std. stgr.	standard stringer	Lake, Pond or Reservior; Marshland	•	_ <u>*</u>	UP = transformer o
galv.	galvanized	stiff.	stiffener	Spring or Seep		$\sim$	Building
ID IE	inside diameter invert elevation	struc. STS	structural point of spiral to tangent spiral				Right-of-Way Line
jt.	joint	T	tangent distance	Treeline; Individual Trees			
KSI	thousand pounds per square inch	<i>T.</i>	township		ВН	TP	Permanent Easement
1	length of curve	TBM thd.	temporary bench mark thread	Material Source; Bore Hole; Test Pit	$\sim$ $\bullet$		Construction Easement
lat.	latitude	TS Ts	point of tangent to spiral tangent distance (spiraled curve)	Spot Elevation; Coordinate Grid Tick		N 1000	Riprap 📿
LNFT long.	linear foot (feet) longitudinal	typ.	typical			4000	
LPŠM Ls	lump sum length of spiral	V	design speed (velocity)	Above Ground Tank; Underground Tank			Se a
lt. or LT LW	left low water	vph VPI	vehicles per hour vertical point of intersection	Boulder; Well; Antenna; Grave			
		W	west	Cooking Grate; Garbage Can; Picnic Table		Ó.	
N	OTE:			Flagpole; Fire Hydrant	۲	$-\alpha$	
	Other symbols used in the	e plans will b	e shown in a legend	Gas & Water Meter; Gas & Water Valve	G W C C	G WV C D	
	on the appropriate plan sl		-	Control Point (Terrestrial and GPS)	СР	GPS	
					#	<b>T</b> *	NO SC

		PROJECT	SHEET NUMBER			
	- 7					
	EXISTING	G PROP	OSED			
its Top of Cu Toe of Fi						
nits	- no symbol					
	XX	×——× <del>×× ××</del>	<del></del>			
	X		< <del>3* *</del> *			
			<b>.</b>			
and Guard Wall			<u> </u>			
	wall face					
uble post; portable,	)		•			
	¢-	•	(-			
ow shows flow)		~	^			
n End Section	>	~-				
n Headwall	۲ ۲	~-	~~~			
n Drop Inlet	(D)+					
r Drop imet	·····		(			
	,	-\				
	——————————————————————————————————————	10	D			
Ground Utilities	— — P — —	— P — — <i>P</i> —	— P —			
lities main, FO = fiber o <sub>l</sub> SA = sanitary sew team, T = telephon	ptic, G = gas, 1	→ w → w → w → w → w → w → w → w → w → w	→ w ⊨→ = oil, sewer,			
lephone, Joint Use, pport w/Anchor)			•			
ility Features ic meter, TP = tele former or junction b	phone pedestal, ox, WF = water	■ TV = CATV pedesta fountain	тр Л,			
<i>ie</i>		r/w —	— <i>R/W</i> ——			
ment		P/E − <b><i>P/E</i> −</b>				
sement	- no symbo					
NR AMR	110 3911100	тсе — тсе — <b>Д</b>	Δ			
	Section A	-A				
	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION					
ŀ	OFFICE OF FEDERAL LANDS HIGHWAY WFLHD DETAIL					
	PLAN SYMBOLS AND ABBREVIATIONS					
Ļ		D FOR USE 11/2001	DETAIL			
NO SCALE		2007 10/2009 10/2014	W101-1			

∆ ∆c		total central angle curve central angle	M.L. M.P.	<i>main line mile post</i>	National Boundary			
Ø θs		diameter spiral central angle	m2 m3	square meter cubic meter	State Boundary			North Arrow
abut		abutment	matl. max.	material maximum	County Boundary			Slope Stake Limits
ADT AH		average daily traffic ahead	min.	minimum	City Boundary			Construction Limits
appr		approach	mon. N	monument north	Township or Range Line			
BK b.f.		<i>back back face</i>	NC	normal crown	Section Line			Bottom of Ditch
BM BP		bench mark	o.c. o. to o.	on center out to out	Section Corner (Found, Projected)	36 31	36 31	Fence
br.		balance point bridge	OD	outside diameter		1 4 6		Gate with Fence
brg. btwr	ו	bearing between	OG OHWM	original ground ordinary high water mark	<sup>1</sup> / <sub>4</sub> Section Line	15	15	Cattleguard
	- c. to c.	. center to center	PC	point of curve	<sup>1</sup> / <sub>4</sub> Section Corner (Found, Projected)	22	22	Guardrail
⊈ clr.		<i>centerline clear</i>	PCC PCS	point of compound curve point of curve to spiral	$\frac{V_{16}}{V_{16}}$ Section Line	o <sup>1/16</sup>	 © <sup>1/16</sup>	Concrete Barrier and Gu
CMP col.		corrugated metal pipe column	PI pl.	point of intersection plate	$\frac{1}{1_{16}}$ Section Corner (Found, Projected)	SEC.	SEC.	
conc conn		concrete connection	POC POS	point on curve point on spiral	Property Line	P/L	P/L	Retaining Wall
cons	tr. jt.	construction joint	POT	point on tangent	Parcel Number	(4)	00_)	Signs (single, double po
cont. CS		continuous point of curve to spiral	PS PSC	point of tangent to spiral point of spiral to curve	National Park Boundary	///////NP/////////////////////////////	///////NP/////////////////////////////	Delineators
ctrs. culv.		centers culvert	PST PT	point of spiral to tangent point of tangent	National Forest Boundary			Pipe Culvert (arrow sho
D		diameter	pvmt.	pavement	National Wildlife Refuge Boundary	//// NWR //// NWR //	/// NWR //// NWR ////	Pipe Culvert with End Se
DHV dia.		design hourly volume diameter	R R.	radius range	BLM Lands Boundary	***************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
diapi dist.		diaphragm distance	R/W	right-of-way	Indian Reservation Boundary	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	Pipe Culvert with Headv
drwg		drawing(s)	rdwy. reinf.	roadway reinforcement	Existing Roadway (Paved, Gravel)			Pipe Culvert with Drop I
E e		east superelevation rate	reqd. rt. or RT	required right				Box Culvert
e.f.	4.016	each face elevation in meters	rte.	route	Railroad			Underdrain
elev.		elevation	S SADT	south seasonal average daily traffic	Trail			Overhead/Above Groun
emb EOP		embankment edge of pavement	SC sect.	point of spiral to curve section	Fiber Roll			
EQ O EW	or eq.	equation edge of water	shldr.	shoulder	Silt Fence	0 0		Underground Utilities FM = force main,
exc. exp.	it.	excavation expansion joint	SLRY spa.	slurry unit spacing, spaces or spaced	Sandbag			P = power, SA = s
f.f.	5	front face	SRS SS	point of spiral to reverse spiral point of spiral to spiral (no curve)				STEAM = steam,
fin. flg.		finish flange	ST STA, Sta.	point of spiral to tangent station	Intermittent Drainage or Small Creek			Poles (Power, Telephone Light, Support w
ftg.		footing	std. stgr.	standard stringer	Large Creek or River			Miscellaneous Utility Fea
ga. galv.		gage (gauge) galvanized	stiff. struc.	stiffener structural	Lake Dend or Decention Marchland	° °	<u>*</u> *	EM = electric mete
ID		inside diameter	STS	point of spiral to tangent spiral	Lake, Pond or Reservior; Marshland	°		UP = transformer o
IE Jt.		invert elevation joint	Т	tangent distance	Spring or Seep			Building
<i>K.P.</i>		, kilometer post	T. TBM	township temporary bench mark	Treeline; Individual Trees		man	Right-of-Way Line
1 L dgi		length of curve	thd. TS	thread point of tangent to spiral				Permanent Easement
at.		latitude longitudinal	Ts typ.	tangent distance (spiraled curve) typical	Material Source; Bore Hole; Test Pit		TP	Construction Easement
EF LPŠN LS	1	lump sum length of spiral				$\wedge$ $\mathbf{\nabla}$	N 1000	
It. or	- LT	left low water	V vph	design speed (velocity) vehicles per hour	Spot Elevation; Coordinate Grid Tick		E 4000	Riprap ()
> LVV		IOW WALEI	VPI	vertical point of intersection	Above Ground Tank; Underground Tank			Q Q
0			W	west	Boulder; Well; Antenna; Grave	$\bigcirc$ $\bigcirc$		
	_				Cooking Grate; Garbage Can; Picnic Table		Ö	
		IOTE:						
M4 20		Other symbols used in the on the appropriate plan sh		be shown in a legend	Flagpole; Fire Hydrant	C M	-4	
7 77(				in the set	Gas & Water Meter; Gas & Water Valve	9 9 9	e wv e e	
gust 21		Dimensions in this plan se unless otherwise noted.	et are in milli	IIIIeters	Control Point (Terrestrial and GPS)			NO SC
AU					1			

		PROJECT	SHEET NUMBER			
	- Z					
Tan af (	EXISTING	PROPO	SED			
Top of C Toe of J						
5	- no symbol -					
		<u> </u>				
	×	<del>×× ××</del>	<del></del>			
	XXX	×× ××	<b>⊴¥X XX</b>			
			$\blacksquare$			
	a — <u> </u>					
nd Guard Wall	c=x=x=x=x=x=x=x=x=x					
	wal	wall face				
ole post; portable	e) o oo		, TT			
		4				
v shows flow)			~~~~			
and Section	N					
			•			
leadwall	~~	$\frown$	~~~			
Prop Inlet	( <u>DI</u> )~~	(DI)	~~ ~~			
	)=======(					
		+UD	H			
Fround Utilities	— — P — — P —	P	— P ——			
ies ain, FO = fiber GA = sanitary sev am, T = telepho	- — —w⊢ — —w⊢ optic, G = gas, IRR = i ver, SD = storm drain, ne, TV = CATV, W = w	rrigation,O = SS = storm se	→w⊨— oil, wer,			
ohone, Joint Use ort w/Anchor)						
ty Features meter, TP = tel mer or junction	ephone pedestal,  TV = box, WF = water founta	_⊤ CATV pedestal, in				
	r/w		R/ <b>W</b> ——			
ent	P/E	P/E				
nent	- no symbol -					
	Section A-A		⊾ ▲			
	FEDERAL HIGHWA	DF TRANSPORTATION Y ADMINISTRATION				
F		RIC DETAIL				
	PLAN SYMBOLS AND					
	ABBREV	IATIONS				
IO SCALE	DETAIL APPROVED FOR USE REVISED: 9/2005 1/2007 10/		DETAIL			
I'	C/2022		/M101-1			