&	AND
@	AT
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AB.	ABRUPT
A.C.	ALUMINUM CAP OR ASPHALT CEMENT
ADD. EXC.	ADDITIONAL EXCAVATION
ADJ.	ADJUSTED
A.D.T.	AVERAGE DAILY TRAFFIC
AGC	ASSOCIATED GENERAL CONTRACTORS OF AMERICA
AGG.	AGGREGATE
AH.	AHEAD
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APP.	APPROACH
APPL.	APPLICATION
APPROX.	APPROXIMATE
ARTBA	AMERICAN ROAD AND TRANSPORTATION BUILDERS ASSOCIATION
ASPH.	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AVE.	AVENUE
AVG.	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AZ.	AZIMUTH
BAL.	BALANCE
BBL. OR BBLS.	BARREL OR BARRELS
B.C.	BRASS CAP
B.C.R.	BEGIN CURB RETURN
B.E. OR BE	BRIDGE END
BEG.	BEGIN
BIT.	BITUMINOUS OR BITUMEN
BK.	BACK OR BANK
BLDG.	BUILDING
BLK.	BLOCK
B.L.M. OR BLM	U.S. BUREAU OF LAND MANAGEMENT
BLVD.	BOULEVARD
B.M.	BENCH MARK
BNDRY.	BOUNDARY
BOT.	BOTTOM
BR.	BRIDGE
B.R.	BASE OF RAIL
BRG.	BEARING
B.S. OR BS	BACKSIGHT
B.S.T.	BITUMINOUS SURFACE TREATMENT
B.W.FE.	BARBED WIRE FENCE
C	CUT
C/A	CONTROL OF ACCESS
C.A.C. OR CAC	CRUSHED AGGREGATE COURSE
CALC.	CALCULATED
C.A.P. OR CAP	CORRUGATED ALUMINUM PIPE
CATV	CABLE TV
CB.	CURB
C.B.	CATCH BASIN
C.B.W.	CONCRETE BLOCK WALL
C.C.	CLOSING CORNER
CDTN.	CONDITION
CEM.	CEMENT
C&G	CURB & GUTTER
C.G.	CATTLE GUARD
CH.	CHANNEL OR CHAIN
CH.CH.	CHANNEL CHANGE
CHD.	CHORD
CHIS."x"	CHISELED CROSS
C.I.	CURB INLET
CIR.	CIRCLE
CL.	CLASS OR CLEARANCE
CL-4F,5F	CHAIN LINK FENCE (W/ HEIGHT - ENGLISH)
CL-1.2F,1.5F	CHAIN LINK FENCE (W/ HEIGHT - METRIC)
C/L OR ℄	CENTERLINE
C.M.P. OR CMP	CORRUGATED METAL PIPE
C.N.	CONCRETE NAIL
CO.	COUNTY OR COMPANY
C.O.	CLEAN OUT
COMP.	COMPACTION
CONC.	CONCRETE
COND.(TEL.)	CONDUIT (SPECIFY TYPE)
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONST. PMT.	CONSTRUCTION PERMIT
COR.	CORNER
CORR.	CORRECTED OR CORRUGATION
COV.	COVER
C.P.	CATCH POINT
CR.	CRUSHED OR CREEK
CRS.	COURSE
C.S. OR CS	CURVE TO SPIRAL
C.S.F. OR CSF	COMBINATION SCALE FACTOR
C.S.P. OR CSP	CORRUGATED STEEL PIPE
C.S.P.A OR CSPA	CORRUGATED STEEL PIPE ARCH
CT.	COURT
C.T.B. OR CTB	CEMENT TREATED BASE
CTR.	CENTER
C.T.S. OR CTS	CRUSHED TOP SURFACING
CULV.	CULVERT
C.Y.	CUBIC YARD
D	DEGREE OF CURVATURE, DISTRIBUTION OF TRAFFIC, DIAMETER, OR DEPTH
DBL.	DOUBLE
D_c	DEGREE OF CURVATURE (WITH SPIRALS)
D.D.	DOWN DRAIN
DE	DIFFERENCE IN ELEVATION
DEFL.	DEFLECTION
DESC.	DESCRIPTION
DEST.	DESTROYED
DET.	DETOUR OR DETAIL
DETC.	DETECTOR
D.H.	DRILL HOLE
D.H.V.	DESIGN HOURLY VOLUME
D.I.	DROP INLET
DIA.	DIAMETER
DIST.	DISTANCE OR DISTRICT
DN.	DOWN
DP.	DEEP
DR.	DRAIN OR DRIVE
DT.	DITCH
DTL.	DETAIL OR DETAILED
DWG.	DRAWING
DY.	DAYLIGHT
E	EAST OR EXTERNAL DISTANCE
EASE. OR ESMT.	EASEMENT
E.B. OR EB	EASTBOUND
E.C.R.	END CURB RETURN
E.D.M. OR EDM	ELECTRONIC DISTANCE MEASUREMENT OR MEASURER
E.G.	EDGE OF GUTTER
ELEV. OR EL.	ELEVATION
ELONG.	ELONGATED
ELY.	EASTERLY
EMB.	EMBANKMENT
EMUL.	EMULSIFIED
E.O.	EDGE OF OIL
E.P.	EDGE OF PAVEMENT
EQ.	EQUATION
E_s	EXTERNAL DISTANCE (WITH SPIRALS)
E.S.	EDGE OF SHOULDER
E.T.W. OR ETW	EDGE OF TRAVELED WAY
EW.	END WALL
EX.	EXISTING
EXC.	EXCAVATION
EXT.	EXTENSION
EXWY.	EXPRESSWAY

DETAILED DRAWING

REFERENCE STANDARD SPEC. SECTION 101

DWG. NO. 101-05

ABBREVIATIONS

EFFECTIVE: SEPTEMBER 2014

MDT MONTANA DEPARTMENT OF TRANSPORTATION

F	FILL
F.A.	FEDERAL AID
F.C.	FLOOD CONTROL
FND.	FOUND
FDN.	FOUNDATION
FE.	FENCE
FERT.	FERTILIZER
F.E.T.S. OR FETS	FLARED END TERMINAL SECTION
F.G. OR FG	FINISHED GRADE OR FRONT OF GUTTER
F.G.S.	FINISHED GRADE STAKE
F.H.	FIRE HYDRANT
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FIN.	FINISH
FL.	FLUSH
F.L. OR FL	FLOW LINE
F.O. OR FO	FIBER OPTIC CABLE
F.P.	FENCE POST
FR. OR FR	FRONTAGE
FR. RD.	FRONTAGE ROAD
F.S. OR FS	FORESIGHT
FT.	FOOT OR FEET
FTG.	FOOTING
FUT.	FUTURE
FWY.	FREEWAY
g	GRAM
G	GRADING
GA.	GAUGE
GAL.	GALLON
GALV.	GALVANIZED
GAR.	GARAGE
GEOD.	GEODETIC
G.L.	GAS LINE
G.L.O.	GENERAL LAND OFFICE
G.P.S. OR GPS	GLOBAL POSITIONING SYSTEM
GR.	GRADE
G.R.	GUARDRAIL
GRD	GRID
GRND.	GROUND
GR.SEP.	GRADE SEPARATION
G.S.	GRAVEL SURFACING
G.S.P. OR GSP	GALVANIZED STEEL PIPE
GTR.	GUTTER
G.V.	GAS VALVE
ha	HECTARE
HDWL.	HEADWALL
HG.	HEADGATE
H.I. OR HI	HEIGHT OF INSTRUMENT
HO.	HOUSE
HOR.	HORIZONTAL
H.P.	HINGE POINT
HT.	HEIGHT
H&T	HUB & TACK
H.W.	HIGH WATER
HWY.	HIGHWAY
I	INTERSTATE
I.C.	INCIDENTAL CONSTRUCTION
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IN.	INCH
INC.	INCORPORATED OR INCREMENT
INCL.	INCLUDED
INSTR.	INSTRUMENT
INT.	INTERSECTION
INTCH.	INTERCHANGE
INV.	INVERT
I.P.	IRON PIN
IRR.	IRRIGATION
I.R.T.S. OR IRTS	INTERSECTING ROADWAY TERMINAL SECTION
JCT.	JUNCTION
J.P.	JOINT USE POLE
kg	KILOGRAM
km	KILOMETER
L	LENGTH OF CURVE, LITER OR ANGLE IRON
LB.	POUND
L_c	LENGTH OF CIRCULAR CURVE
L.C.	LONG CHORD
L.D.	LOOP DETECTOR
LENG.	LENGTH OR LENGTHEN
L.F.	LINEAR FOOT
LN.	LANE
L_s	LENGTH OF SPIRAL
L.S.	LAND SURVEYOR
LT.	LEFT
m	METER
m^2	SQUARE METER
m^3	CUBIC METER
mm	MILLIMETER
mm^2	SQUARE MILLIMETER
MATL.	MATERIAL
MAX.	MAXIMUM
M.C. OR MC	MEDIUM CURING
MDT	MONTANA DEPARTMENT OF TRANSPORTATION
MEAS.	MEASURED
MED.	MEDIAN
MH.	MANHOLE
MIN.	MINIMUM, MINERAL OR MINUTE
MISC.	MISCELLANEOUS
MKR.	MARKER
M.L.	MAINLINE
MNCPL.	MUNICIPAL
M.O.	MID ORDINATE
MON.	MONUMENT
M.P.C. OR MPC	MID-POINT OF CURVE
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
M.Y.	MILE YARD
N	NORTH
N.B. OR NB	NORTHBOUND
N.C.	NORMAL CROWN
N.E.	NORTHEAST
N.G. OR NG	NATURAL GAS
N.G.S. OR NGS	NATIONAL GEODETIC SURVEY
NL.	NAIL
NLY.	NORTHERLY
NO. OR #	NUMBER
N.W.	NORTHWEST
N.W.EL.	NORMAL WATER ELEVATION
O. OR O/S	OFFSET
O.C.	ON CENTERS OR OVERHEAD CROSSING
O.D.	OUTSIDE DIAMETER
O.G.	OLD GROUND OR ORIGINAL GROUND
OH.	OVERHANG OR OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O'PASS	OVERPASS
P	POWER CABLE, PIPE OR PRIMARY
P. OR PG.	PAGE
PAVT.	PAVEMENT
P.B.	PULL BOX
P.C. OR PC	POINT OF CURVE (BEGINNING)
P.C.C. OR PCC	POINT OF COMPOUND CURVE OR PORTLAND CEMENT CONCRETE
P.C.S.	PROJECT CONTROL SYSTEM
P.E. OR PE	PRELIMINARY ENGINEERING OR PROFESSIONAL ENGINEER

DETAILED DRAWING

REFERENCE STANDARD SPEC. SECTION 101

DWG. NO. 101-06

ABBREVIATIONS

EFFECTIVE: SEPTEMBER 2014

MDT MONTANA DEPARTMENT OF TRANSPORTATION

PEN.	PENETRATION
PERF.	PERFORATED
P.I. OR PI	POINT OF INTERSECTION
PL.	PLACE, PLATE OR PLANT
P.L.	PROPERTY LINE
PLAS.	PLASTIC
P.M.	PRINCIPAL MERIDIAN OR PUNCH MARK
P.M.B.	PLANT MIX BASE
P.M.P.	PERFORATED METAL PIPE
P.M.S. OR PMS	PLANT MIX SURFACING
PMT.	PERMIT
P.O.C. OR POC	POINT ON CURVE
P.O.L. OR POL	POINT ON LINE
P.O.S. OR POS	POINT ON SPIRAL
P.O.S.T. OR POST	POINT ON SEMI-TANGENT
P.O.T. OR POT	POINT ON TANGENT
P.O.V.C. OR POVC	POINT ON VERTICAL CURVE
P.P. OR PP	POWER POLE
PP.	PAGES
PREST.	PRESTRESSED
PRIM.	PRIMARY
PROC.	PROCESSING
PROJ.	PROJECT OR PROJECTED
PROT.	PROTECT, PROTECTOR OR PROTECTION
P.T. OR PT	POINT OF TANGENT (END OF CURVE)
PT.	POINT
P.T.W. OR PTW	PRESENT TRAVELED WAY
PVC. OR PVC	POLYVINYL CHLORIDE
PVT.	PRIVATE
PWR. OR PWR	POWER (LINES)
Q	PEAK DISCHARGE (WATER)
QTY.	QUANTITY
R	RANGE, RADIUS OR RISE
R.A.C.E.T. OR RACET	ROAD APPROACH CULVERT END TREATMENT
R.A.P. OR RAP	RECYCLED ASPHALT PAVEMENT
R_c	SPIRAL CURVE RADIUS
R.C. OR RC	RAPID CURING
R.C.B. OR RCB	REINFORCED CONCRETE BOX
R.C.P. OR RCP	REINFORCED CONCRETE PIPE
R.C.P.A. OR RCPA	REINFORCED CONCRETE PIPE ARCH
RD.	ROAD
RDL.	RADIAL
RDWY.	ROADWAY
REC.	RECORD
REF.	REFERENCE
REINF.	REINFORCEMENT
RET.W.	RETAINING WALL
RIV.	RIVER
R.M.	REFERENCE MONUMENT
R.P. OR RP	REFERENCE POINT, POST OR RADIUS POINT
R.R.	RAILROAD
RT.	RIGHT OR ROUTE
RTE.	ROUTE
R/W	RIGHT OF WAY
RY.	RAILWAY
S	RATE OF FULL SUPERELEVATION, SLOPE IN FT. PER FT., SPAN, SOUTH OR SECONDARY
SA.	SATELLITE (FOR TRAVERSE USE)
SAN.SEW.	SANITARY SEWER
S.B. OR SB	SOUTHBOUND
S.C. OR SC	SPIRAL TO CURVE OR SLOW CURING
SCH.	SCHEDULE
SDWK.	SIDEWALK
S.E.	SOUTHEAST
SEC.	SECTION, SECOND OR SECONDARY
SEL.	SELECT
S.G., SG OR SUBGR.	SUBGRADE
SHLD. OR SH.	SHOULDER
SHT.	SHEET
SING.	SINGLE
SIP.	SIPHON
S.L.D.	SEA LEVEL DATUM
SLOT.DR.	SLOTTED DRAIN
SLP.STK.	SLOPE STAKE
SLY.	SOUTHERLY
S.P.	STAND PIPE OR STATE PLANE
SPEC. PROV.	SPECIAL PROVISION
S.P.H.P.	STEEL PIPE, HIGH PRESSURE
SPK.	SPIKE
SQ.	SQUARE
S.S. OR SS	EMULSIFIED ASPHALT
S.S.P.P. OR SSPP	STRUCTURAL STEEL PLATE PIPE
S.S.P.P.A. OR SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
S.S.P.P.A.C. OR SSPPAC	STRUCTURAL STEEL PLATE PIPE ARCH CULVERT
S.T. OR ST	SPIRAL TO TANGENT
ST.	STREET
STA.	STATION
STD.	STANDARD
STD. SPEC.	STANDARD SPECIFICATIONS
STK.	STAKED OR STAKE
STL.	STEEL
STM.	STORM DRAIN
STPD.	STAMPED
STR.	STRUCTURE OR STRAIGHT
SUBD.	SUBDIVISION
SURF.	SURFACE OR SURFACING
SURV.	SURVEY
S.W.	SOUTHWEST OR SIDEWALK
S.Y.	SQUARE YARD
†	METRIC TON
T	TOWNSHIP, TANGENT LENGTH, PERCENT TRUCKS, OR THICKNESS
TAN.	TANGENT
T.B.C. OR TBC	TOP BACK OF CURB
T.B.M.	TEMPORARY BENCH MARK
TBR.	TIMBER
TEL. OR TEL	TELEPHONE
TEL.C.	TELEPHONE CABLE
TELG.	TELEGRAPH
TEL.P.	TELEPHONE POLE
TEMP.	TEMPERATURE OR TEMPORARY
THK.	THICKNESS
TK.	TACK
TOL.	TOLERANCE
TOPOG.	TOPOGRAPHIC
T.P. OR TP	TURNING POINT
TR.	TRACT
TRANS.	TRANSMISSION LINE OR TRANSITION
TRAV.	TRAVERSE
TRIA.	TRIANGULATION
T.R.M.	TRURF REINFORCEMENT MAT
T_s	LENGTH OF TANGENT (CURVE WITH SPIRALS)
T.S. OR TS	TANGENT TO SPIRAL
T.T. OR TT	TRANSMISSION TOWER
TYP.	TYPICAL
U	UNIT
U.G.	UNDERGROUND
UNCL.	UNCLASSIFIED
U'PASS	UNDERPASS
U.S.C. & G.S.	U.S. COAST & GEODETIC SURVEY
U.S.C.E.	U.S. CORPS OF ENGINEERS
U.S.F.S.	U.S. FOREST SERVICE
U.S.G.S.	U.S. GEOLOGICAL SURVEY
U.S.P.L.S.	U.S. PUBLIC LAND SURVEY

DETAILED DRAWING

REFERENCE STANDARD SPEC. SECTION 101

DWG. NO. 101-07

ABBREVIATIONS

EFFECTIVE: SEPTEMBER 2014

MDT MONTANA DEPARTMENT OF TRANSPORTATION

V	DESIGN SPEED OR VELOCITY
V.A.B.M.	VERTICAL ANGLE BENCH MARK
V.C. OR VC	VERTICAL CURVE
V.C. CORR.	VERTICAL CURVE OFFSET CORRECTION
V.C.M.	VERTICAL CONTROL MONUMENT
V.C.P.	VITRIFIED CLAY PIPE
VEH.	VEHICULAR
VERT. OR VT.	VERTICAL
VIT.	VITRIFIED
V.P.	VENT PIPE
V.P.C. OR VPC	VERTICAL POINT OF CURVE
V.P.I. OR VPI	VERTICAL POINT OF INTERSECTION
V.P.T. OR VPT	VERTICAL POINT OF TANGENCY
W	WEST OR WIDTH
W/	WITH
W.B. OR WB	WESTBOUND
W.C.	WITNESS CORNER
W.L.	WATER LINE
WLY.	WESTERLY
W/O	WITHOUT
W.P.	WING POINT
W.S.	WATER SERVICE OR WARPED OR VARIABLE SLOPE
WT.	WEIGHT
W.T.	WATER TABLE
W.V.	WATER VALVE
W.W.	WING WALL OR WOVEN WIRE
YD	YARD
YD^2	SQUARE YARD
YD^3	CUBIC YARD
XING.	CROSSING
XSEC.	CROSS SECTION

DETAILED DRAWING

REFERENCE
STANDARD SPEC.
SECTION 101

DWG. NO.
101-08

ABBREVIATIONS

EFFECTIVE: SEPTEMBER 2014

MDT MONTANA DEPARTMENT OF TRANSPORTATION

TITLE SHEET

- PRIMARY ROAD **
- PRIMITIVE ROAD
- PROPOSED ROAD
- GRADED ROAD
- BLADED ROAD
- PRIMITIVE ROAD
- GRAVELED ROAD (CADD *)
- PAVED ROAD
- FEDERAL AID ROUTING (ON EXISTING ROAD)
- FEDERAL AID ROUTING (NON-EXISTING ROAD)
- INTERCHANGE
- STRUCTURE
- F.F. FREE FERRY
- T.F. TOLL FERRY
- HIGHWAY TUNNEL
- PASS
- RAILROAD
- RESERVATION LINE
- STATE & NATIONAL LINE
- COUNTY LINE
- TOWNSHIP & SECTION LINE
- 10 INTERSTATE
- 10 U.S. HIGHWAY
- 23 STATE HIGHWAY (CADD *)
- CITY OR TOWN
- AIR FIELD
- DAM
- BUILDING OR HOUSE
- BRIDGE

** PRIMARY ROADS ARE 0.08" [2.03 mm] WIDE.
ALL OTHERS ARE 0.05" [1.27 mm] WIDE.

PROFILE

- FLOWLINE AT ℄ CULVERT
- FLOWLINE AT ℄ IRRIGATION SYPHON
- FLOWLINE AT ℄ CONCRETE BOX CULVERT

CROSS SECTIONS

- POWER POLE (NO. OF WIRES AND VOLTAGE)
- TELEPHONE POLE (NO. OF WIRES)
- TELEGRAPH POLE (NO. OF WIRES)
- GUY POLE
- GUY AND ANCHOR
- Wetland Boundary WETLAND BOUNDRY

PLAN

- STATE & NATIONAL LINE
- COUNTY LINE
- CITY OR TOWN BOUNDARIES
- TOWNSHIP OR SECTION LINE
- SECTION LINE (SHOWING CORNER SOLID IF FOUND - OPEN IF NOT FOUND) (1/16 CORNER, 1/4 CORNER, 6 5 7 8)
- CLOSING CORNER
- MEANDER CORNER
- OWNERSHIP TIE
- PROPERTY CORNER
- CALCULATED R/W MONUMENT
- FOUND OR SET MONUMENT
- PROPERTY LINE
- LIMITED ACCESS CONTROL
- AC FULL ACCESS CONTROL
- ELAC EXISTING LIMITED ACCESS CONTROL
- EFAC EXISTING FULL ACCESS CONTROL
- EXISTING ACCESS CONTROL (LEGACY PROJECTS ONLY)
- EXISTING RIGHT-OF-WAY
- HIGHWAY RIGHT-OF-WAY (R/W, +90, +00, +10)
- RAILROAD RIGHT-OF-WAY (RR R/W)
- BASE OR SURVEY LINE (PC, STA, N 89° 40' E)
- ℄ OF STAKED LINE WHEN A PROJECTION IS MADE (N 89° 40' E)
- RAILROAD
- TRAVELED WAY
- LEVEE OR DIKE (CADD *)
- RETAINING WALL (CADD *)
- PROPOSED RETAINING WALL (CADD *)
- RIPRAP
- GEOTEXTILE PATTERN
- CONCRETE SIDEWALK
- CONCRETE CURB (NEW, IN PLACE)
- EXISTING FENCE
- PROPOSED FENCE
- SNOW FENCE
- PROPOSED SNOW FENCE
- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL
- EXISTING CONCRETE MEDIAN RAIL
- TEN MILE CREEK SMALL DRAINAGE
- LARGE DRAINAGE
- RESERVOIR WITH DAM
- LAKE
- MARSH, SWAMP (CADD *)

PLAN

- OHWM ORDINARY HIGH WATER MARK
- WL WETLAND DELINEATION
- EXISTING WETLAND AREA
- DELINEATED WETLAND AREAS
- IMPACTED WETLANDS
- BLUFFS OR CLIFFS
- WATER'S EDGE
- DEPRESSION
- DEPRESSION OBSCURE
- DITCH BLOCK
- EXISTING DITCH OR FLOW LINE
- PROPOSED DITCH
- CULVERT WITH HEADWALL (IN PLACE)
- CULVERT WITHOUT HEADWALL (IN PLACE)
- PROPOSED CULVERT
- DROP OR MEDIAN INLET
- W WATER VALVE BOX
- MANHOLE (LABEL AS TO TYPE OR SERVICE)
- FIRE HYDRANT
- WATER WELL / WELL (CADD *)
- CATCH BASIN
- CONDUIT & WIRING
- P POWER CABLE
- PWR EXISTING UNDERGROUND POWER (CADD *)
- PWR EXISTING OVERHEAD POWER (CADD *)
- TEL or TELG TELEPHONE OR TELEGRAPH CABLE
- TEL EXISTING UNDERGROUND TELEPHONE (CADD *)
- TEL EXISTING OVERHEAD TELEPHONE (CADD *)
- W WATER LINE
- W EXISTING WATER LINE (CADD *)
- STM STORM SEWER
- STM EXISTING STORM DRAIN (CADD *)
- STM PROPOSED STORM DRAIN (CADD *)
- SAN SANITARY SEWER
- SAN EXISTING SANITARY SEWER (CADD *)
- SAN PROPOSED SANITARY SEWER (CADD *)
- NG NATURAL GAS LINE
- NG EXISTING NATURAL GAS LINE (CADD *)
- GAS OR OIL GASOLINE OR OIL LINE
- GAS EXISTING GAS PIPE LINE (CADD *)
- OIL EXISTING OIL PIPE LINE (CADD *)
- FO EXISTING UNDERGROUND FIBER CABLE (CADD *)
- TV EXISTING UNDERGROUND TV CABLE (CADD *)
- MIS EXISTING UNDERGROUND MISSILE CABLE (CADD *)

PLAN

- SINGLE POST SIGN
- MULTIPLE POST SIGN
- TELEGRAPH POLE
- TELEPHONE POLE
- T TELEPHONE PEDESTAL
- POWER POLE
- P POWER PEDESTAL
- TROLLEY POLE
- LIGHT POLE
- GUY POLE
- GUY WIRE & ANCHOR
- TRANSMISSION TOWER
- G GAS VALVE
- OIL OR GAS WELL
- TANKS
- TREE OR BUSH
- TREE LINE
- HEDGE LINE
- MB MAILBOX
- EXISTING APPROACH
- PROPOSED APPROACH
- EXISTING CATTLE GUARD
- PROPOSED CATTLE GUARD
- GRAVEL PIT
- SCALES
- MILE POST
- PROJECT MARKER
- STATION MARKER
- ℄ CENTERLINE
- DEFLECTION ANGLE
- Δ_c DEFLECTION ANGLE (CIRCULAR CURVE WITH SPIRALS)
- Θ_s DEFLECTION ANGLE OF ONE SPIRAL
- N NORTH ARROW
- GATE

* SYMBOLOGY USED ON CADD DRAFTED PLANS

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 101	DWG. NO. 101-10
SYMBOLS	
EFFECTIVE: SEPTEMBER 2014	

MDT MONTANA DEPARTMENT OF TRANSPORTATION