



TURNOUT NO.	SWITCH AREA						CLOSURE AREA											FROG AREA							
	LENGTH OF POINT	LEAD	POINT ANGLE	P.S. TO H.S.	HEEL SPREAD		DISTANCE AND OFFSET FOR CLOSURE RAIL ON GAUGE LINES					INCLINATION FROM P.S. TO P.I.	RADIUS ON $\frac{1}{2}$ OF TURNOUT	DEGREE OF CURVE ON $\frac{1}{2}$ OF $\frac{1}{2}$ OF	LENGTH OF STRAIGHT CLOSURE RAIL	LENGTH OF CURVED CLOSURE RAIL	FROG ANGLE	FROG TOE SPREAD	FROG HEEL SPREAD	LENGTH OF FROG	TOE OF FROG TO $\frac{1}{2}$ POINT	$\frac{1}{2}$ POINT TO HEEL OF FROG	TOE OF FROG TO END OF CURVE	LENGTH OF GUARD RAIL	MAXIMUM RECOMMENDED SPEEDS THRU T/O IN MPH
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	
*10-115LB	31'-6"	81'-6 1/2"	0-27'58"	23'-2"	0'-6 1/4 "	35'-11"	1'-1 5/64"	48'-8"	1'-10 21/64"	61'-5"	2'-10 1/64"	34'-1/2"	807.20'	7-06'09"	38'-0 1/2"	38'-1 25/32"	5-43'29"	1'-1 53/64"	1'-5 11/32"	26'-0"	12'-0"	14'-0"	4'-7 25/32 "	11'-0"	15
*10 136LB	31'-6"	81'-6 1/2"	0-27'58"	23'-2"	0'-6 1/4 "	35'-11"	1'-1 5/64"	48'-8"	1'-10 21/64"	61'-5"	2'-10 1/64"	34'-1/2"	807.20'	7-06'09"	40'-4 1/2"	40'-5 29/32"	5°43'29"	XXX	XXX	23'-0"	9'-8"	13'-4"	2'-4 7/16"	20'-9"	15

- LEGEND**
- P.S. = POINT OF SWITCH
  - P.A. = POINT ANGLE
  - H.S. = HEEL OF SWITCH
  - B.C. = BEGINNING OF CURVE
  - E.C. = END OF CURVE
  - P.I. = POINT OF INTERSECTION
  - T.F. = TOE OF FROG
  - H.F. = HEEL OF FROG
  - P.F. = POINT OF FROG
  - T.P. = THEORETICAL POINT

**TABLE FOR SPRING FROGS ONLY**

TURNOUT No.	LENGTH OF STRAIGHT CLOSURE RAIL	LENGTH OF CURVED CLOSURE RAIL	FROG ANGLE	FROG TOE SPREAD	FROG HEEL SPREAD	LENGTH OF FROG	TOE OF FROG TO $\frac{1}{2}$ POINT	$\frac{1}{2}$ POINT TO HEEL OF FROG	TOE OF FROG TO END OF CURVE
	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓
*10 136LB	32'-10 5/8"	33'-1/32"	5°43'29"	1'-7 9/32"	1'-2 11/16"	28'-11 1/8"	17'-1 1/8"	11'-0"	9'-7 9/16"

**METRIC CONVERSION: 1 inch=25.4mm, 1 foot=304.8mm**

No.	18/07/27	ADDED IMPERIAL TO METRIC CONVERSION NOTE	By Approved
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Standard / **GEOMETRY FOR NO. 10 ALL WELDED TURNOUTS**

Drawn MG Checked GGS Approved *[Signature]* VP Engineering & Asset Management



Date SEPT 15/2017 Plan Number GTS-0002A Rev 1