



TURNOUT NO.	SWITCH AREA							CLOSURE AREA										FROG AREA									
	POINT GEOMETRY	POINT LENGTH	LEAD	SWITCH ANGLE	BEND TO POINT OF SWITCH	HEEL SPREAD	HS TO BC OR CORNE CLOSURE RAIL	DISTANCE AND OFFSET FOR CLOSURE RAIL ON GAUGE LINES										FROG ANGLE	FROG TOE SPREAD	FROG HEEL SPREAD	LENGTH OF FROG	TOP OF FROG TO 1/2 POINT	1/2 POINT TO HEEL OF FROG	TOP OF FROG TO END OF CARBIDE	LENGTH OF GUARD RAIL	MINIMUM RECOMMENDED SPEED (MPH) TO	
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	
*8 85LB.	11'-0"	11'-0"	60'-11"	2° 16'45.5"	9 7/16"	5 5/8"	1'-2 1/16"	22'-3"	1'-0 3/16"	33'-6"	1'-9 11/16"	44'-9"	2'-10 5/32"	22'-11"	514.31'	11° 09'29"	44'-11"	45'-1 1/4"	7° 09'10"	7"	1'-0 1/2"	13'-0"	5'-0"	8'-0"	0"	11'-0"	15
*8 100LB.	11'-0"	11'-0"	60'-11"	2° 16'45.5"	9 7/16"	5 5/8"	1'-2 1/16"	22'-3"	1'-0 3/16"	33'-6"	1'-9 11/16"	44'-9"	2'-10 5/32"	22'-11"	514.31'	11° 09'29"	44'-11"	45'-1 1/4"	7° 09'10"	7"	1'-0 1/2"	13'-0"	5'-0"	8'-0"	0"	11'-0"	15
*8 85LB.	16'-6"	16'-6"	67'-10 3/4"	1° 42'01"	1'-0 5/8"	6 1/4"	0"	28'-1"	1'-0 1/32"	39'-8"	1'-9 1/8"	51'-3"	2'-9 9/16"	29'-10 23/32"	484.57'	11° 50'42"	46'-4 3/4"	46'-7 1/4"	7° 09'10"	7"	1'-0 1/2"	13'-0"	5'-0"	8'-0"	+3"	11'-0"	15
*8 100LB.	16'-6"	16'-6"	67'-10 3/4"	1° 42'01"	1'-0 5/8"	6 1/4"	0"	28'-1"	1'-0 1/32"	39'-8"	1'-9 1/8"	51'-3"	2'-9 9/16"	29'-10 23/32"	484.57'	11° 50'42"	46'-4 3/4"	46'-7 1/4"	7° 09'10"	7"	1'-0 1/2"	13'-0"	5'-0"	8'-0"	+3"	11'-0"	15
*8 115LB.	16'-6"	38'-5"	67'-10 3/4"	1° 42'01"	1'-0 5/8"	6 1/4"	0"	28'-1"	1'-0 1/32"	39'-8"	1'-9 1/8"	51'-3"	2'-9 9/16"	29'-10 23/32"	484.57'	11° 50'42"	46'-4 3/4"	46'-7 1/4"	7° 09'10"	7"	1'-0 1/2"	13'-0"	5'-0"	8'-0"	+3"	11'-0"	15
*8 132LB.	16'-6"	16'-6"	67'-10 3/4"	1° 42'01"	1'-0 5/8"	6 1/4"	0"	28'-1"	1'-0 1/32"	39'-8"	1'-9 1/8"	51'-3"	2'-9 9/16"	29'-10 23/32"	484.57'	11° 50'42"	46'-4 3/4"	46'-7 1/4"	7° 09'10"	7"	1'-0 1/2"	13'-0"	5'-0"	8'-0"	+3"	11'-0"	15
*8 136LB.	16'-6"	38'-8"	67'-10 3/4"	1° 42'01"	1'-0 5/8"	6 1/4"	0"	28'-1"	1'-0 1/32"	39'-8"	1'-9 1/8"	51'-3"	2'-9 9/16"	29'-10 23/32"	484.57'	11° 50'42"	42'-2 3/8"	42'-4 7/8"	7° 09'10"	1'-1 1/16"	1'-4 5/16"	19'-9"	9'-2 3/8"	10'-6 5/8"	-3'-11 11/32"	21'-6"	15

TABLE FOR S.G.M. FROGS ONLY

TURNOUT NO.	LENGTH OF STOWAWAY CLOSURE RAIL	LENGTH OF CARBID CLOSURE RAIL	FROG ANGLE	FROG TOE SPREAD	FROG HEEL SPREAD	LENGTH OF FROG	TOP OF FROG TO 1/2 POINT	1/2 POINT TO HEEL OF FROG	TOP OF FROG TO END OF CARBIDE
	⑰	⑱	⑲	㉑	㉒	㉓	㉔	㉕	㉖
*8 85LB.	47'-10"	48'-0 1/2"	7° 09'10"	2 5/8"	7 9/32"	6'-11"	2'-1"	4'-10"	+2'-11"
*8 100LB.	47'-7"	47'-9 1/2"	7° 09'10"	3"	8 3/8"	7'-7"	2'-4"	5'-3"	+2'-8"
*8 85LB.	49'-3 3/4"	49'-6 1/4"	7° 09'10"	2 5/8"	7 9/32"	6'-11"	2'-1"	4'-10"	+3'-2"
*8 100LB.	49'-0 3/4"	49'-3 1/4"	7° 09'10"	3"	8 3/8"	7'-7"	2'-4"	5'-3"	+2'-11"
*8 115LB.	48'-5 3/4"	48'-8 1/4"	7° 09'10"	3 7/8"	9 1/2"	8'-11"	2'-11"	6'-0"	+2'-1/4"
*8 132LB.	48'-5 3/4"	48'-8 1/4"	7° 09'10"	3 7/8"	9 1/2"	8'-11"	2'-11"	6'-0"	+2'-4"
*8 136LB.	48'-5 3/4"	48'-8 1/16"	7° 09'10"	3 7/8"	9 1/2"	8'-11"	2'-11"	6'-0"	+2'-4 1/32"

LEGEND

- P.S.= POINT OF SWITCH
- P.A.= POINT ANGLE
- S.A.= SWITCH ANGLE
- H.S.= HEEL OF SWITCH
- P.C.C.= POINT CHANGE OF CURVE
- 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

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

1	18/07/27	ADDED IMPERIAL TO METRIC CONVERSION NOTE
No.	Date	Revision
		By Approved

Standard/ **GEOMETRY FOR NO. 8 TUROUTS**

Drawn RFP Checked RP Approved *[Signature]*
VP Engineering & Asset Management



METROLINX

Date SEPT 15/2017 Plan Number GTS-0001 Rev 1

REFERENCE: TS-0001_R4

Sheet 1 OF 1