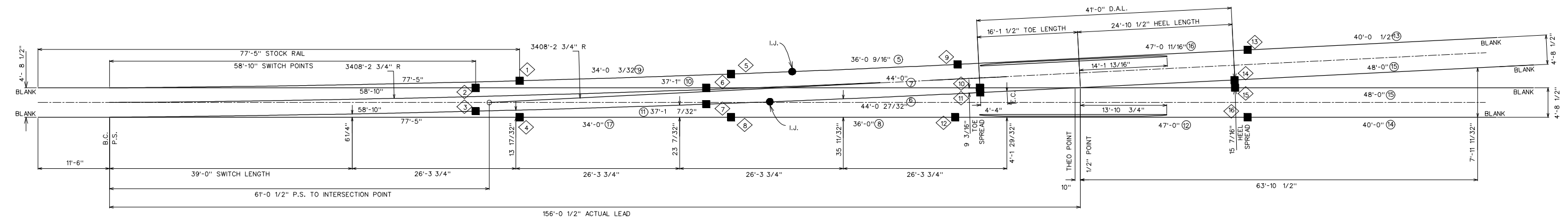
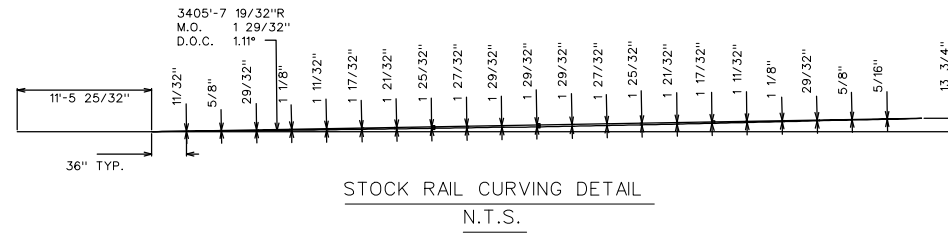


NOTES:

- FASTENERS TOTAL REQUIRED PER TURNOUT (INCLUDED ON OTHER DRAWINGS):
 248 X25-15204
 1020 PANDROL ECL-2055 CLIPS (OF WHICH 238 ARE TO FASTEN PLATE TO TIE)
 10 PANDROL ECL-2056 CLIPS
 8 PANDROL ECL-2063 CLIPS
 488 X25-00080
 8 X10-04050
 28 U10-00105 (BRACE), X27-00000 (WEDGE FOR BRACE), X27-00001 (SERRATED WASHER FOR BRACE)
- ALL COMPONENT PIECES (SWITCH POINTS, STOCK RAILS, GUARD RAILS, TURNOUT RAILS) SHALL BE MARKED WITH A UNIQUE I.D. NUMBER WHICH WILL ENABLE FIELD FORCES TO RE-ASSEMBLE MATED MATERIALS.
- ALL RAILS SHALL BE END DRILLED 9 1/2" X 6".
- ALL RAILS TO BE MARKED WITH WEIGHT AND CENTERLINE LOCATION FOR LIFTING USING INDELIBLE INK MARKER.
- AT FINAL ASSEMBLY, THE TOP SIDE OF ALL SWITCH PLATING, TOP SIDE (GAUGE SIDE) OF STOCK RAIL BASES (WHERE THE SWITCH POINTS RIDE) AND BOTTOM SIDE OF SWITCH POINTS WILL BE GRAPHITE LUBRICATED.
- TIES 71-72 AND 89-95 IN VANGUARD AREA TO HAVE 1 1/8" RISER CAST INTO CONCRETE TIE.
- SCHWIHAG ROLLERS TO BE INSTALLED AND ADJUSTED IN THE FIELD.
- SWITCH MACHINE SUPPLIED BY OTHERS.
- ALL MATERIAL MAY BE INSPECTED BY CUSTOMER PERSONNEL PRIOR TO SHIPPING.
- USE AN INDELIBLE PAINT MARKER TO MARK PLATE LOCATIONS ON THE FIELD SIDE OF THE STRAIGHT STOCK RAIL.
- USE PANDROL CLIP E2063 FOR INSULATED JOINTS, USE PANDROL CLIP E2055 FOR OTHERS.
- LABEL RAILS WITH JOINT ID AND NUMBERS AS SHOWN ON DRAWING.
- TEMPORARY JOINT KITS (ITEM 20) TO BE SUPPLIED FOR ALL WELDED JOINTS.
- TURNOUT TO BE PLATED, TURNOUT NOT TO SHIP PANELIZED. PANELS SHOWN FOR INSTALLATION PURPOSES ONLY.
- TURNOUT TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LATEST ISSUE OF GO TRACK STANDARDS.
- INSULATED JOINT TO BE INSTALLED WHEN TRACK CIRCUITS EXIST OR ARE REQUIRED AND SHALL BE THE CONTINUOUS GLUED TYPE WITH THE INSULATED JOINT UNDRILLED (BLANKED) RAIL ENDS FIELD WELDED.

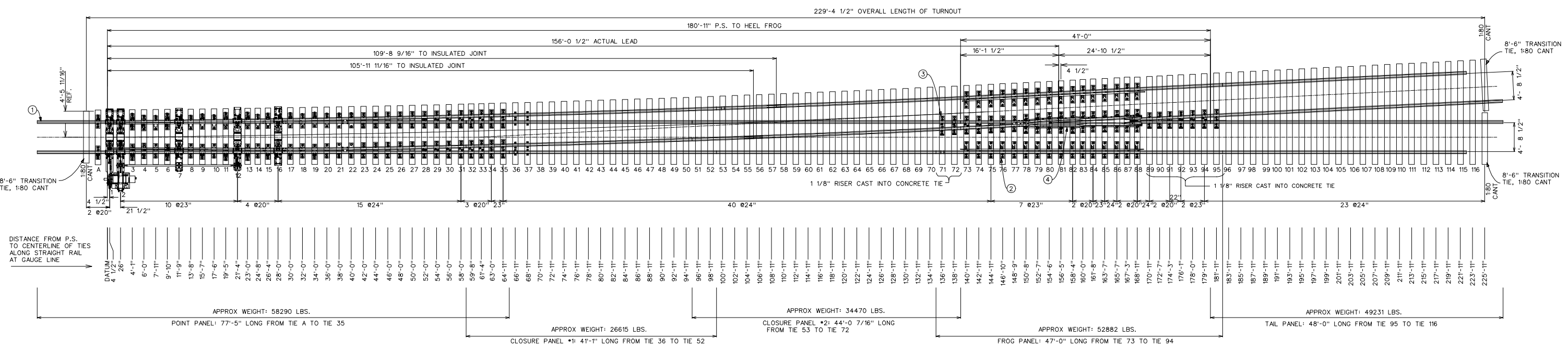
TURNOUT PROPERTIES:

FROG NUMBER:	20
FROG LENGTH:	41'-0"
FROG ANGLE:	2° 51' 51"
THROW AT FIRST ROO:	4 3/4"
LENGTH OF SWITCH POINT:	39'-0" / 58'-10"
HEEL SPREAD OF SWITCH:	6 1/4"
POINT ANGLE:	0° 26' 23"
ACTUAL LEAD:	156'-0 1/2"
P.S. TO H.F.:	180'-11"
CENTERLINE RADIUS:	3408'-2 3/4"
DEGREE OF CURVE:	1° 40' 52"



TURNOUT GEOMETRY

- INSULATED JOINT (3/16" GAP) DRILL 3 1/2" X 6" X 6", 1 5/16" DIA, 3 3/32 A.B.
- WELDED JOINT (0" GAP) DRILL 9 1/2" X 6" X 1 5/16" DIA, 3 3/32" A.B.



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

0	19/01/31	REVISED PDF VERSION ESTABLISHED	By Approved
No.	Date	Revision	

Standard NO.20-136RE-LIH RBM TURNOUT, LH CONCRETE TIES, W/HST, WELDED POWER OPERATED/ROTARY ASSIST DRIVE CLICK-TITE BRACES, SCHWIHAG ROLLERS

Drawn MG Checked GGS Approved VP-Engineering & Asset Management



Date JAN 31, 2019 Plan Number GTS-2108 Rev 0

REFERENCE: Sheet 1 OF 1

BILL OF MATERIALS FOR GTS-2108

ITEM	NORTRAK PRODUCT No.	QTY	DESCRIPTION
1	A20-65588	1	SWITCH PACK, L.H. , 39'-0"/58'-10", 136 TW POINTS
2	A50-61068	1	VANGUARD PACK, FOR No.20 - 136 RE L.H. WELDED TURNOUT
3	A30-65588	1	FROG PACK w/o FROG, FOR #20-136RE-LIH LH WELDED TURNOUT
4	CO1-20887	1	FROG, RBM, #20-136RE-LIH, FOR WELDED TURNOUTS
5		1	JOINT RL ASSY, 136RE, BONDED INSULATED, 36'-0 9/16" LONG
6		1	JOINT RL ASSY, 136RE, BONDED INSULATED, 44'-0 27/32" LONG
7		1	RAIL, DRILLED, 136RE, 44' -0" LONG
8		1	RAIL, DRILLED, 136RE, 36' -0" LONG
9		1	RAIL, DRILLED, 136RE, 34' -0 3/32" LONG
10		1	RAIL, DRILLED, 136RE, 37'-1" LONG
11		1	RAIL, DRILLED, 136RE, 37' -1 7/32" LONG CVD
12		1	RAIL, DRILLED, 136RE, 47' -0" LONG
13		1	RAIL, DRILLED, 136RE, 40' -0 1/2" LONG
14		1	RAIL, DRILLED, 136RE, 40' -0" LONG
15		1	RAIL, DRILLED, 136RE, 48' -0" LONG
16		1	RAIL, DRILLED, 136RE, 47' -0 11/16" LONG STR/CVD
17		1	RAIL, DRILLED, 136RE, 34' -0" LONG
18	J40-21888	1	TIE SET, CONCRETE, #20-136RE LH
19	A75-60162	1	HST SET, #20-136RE LH FOR M23 STYLE MACHINE ON MAINLINE SIDE
20	B20-20211	16	JOINT KIT, 136RE, FOR WELDED JOINTS