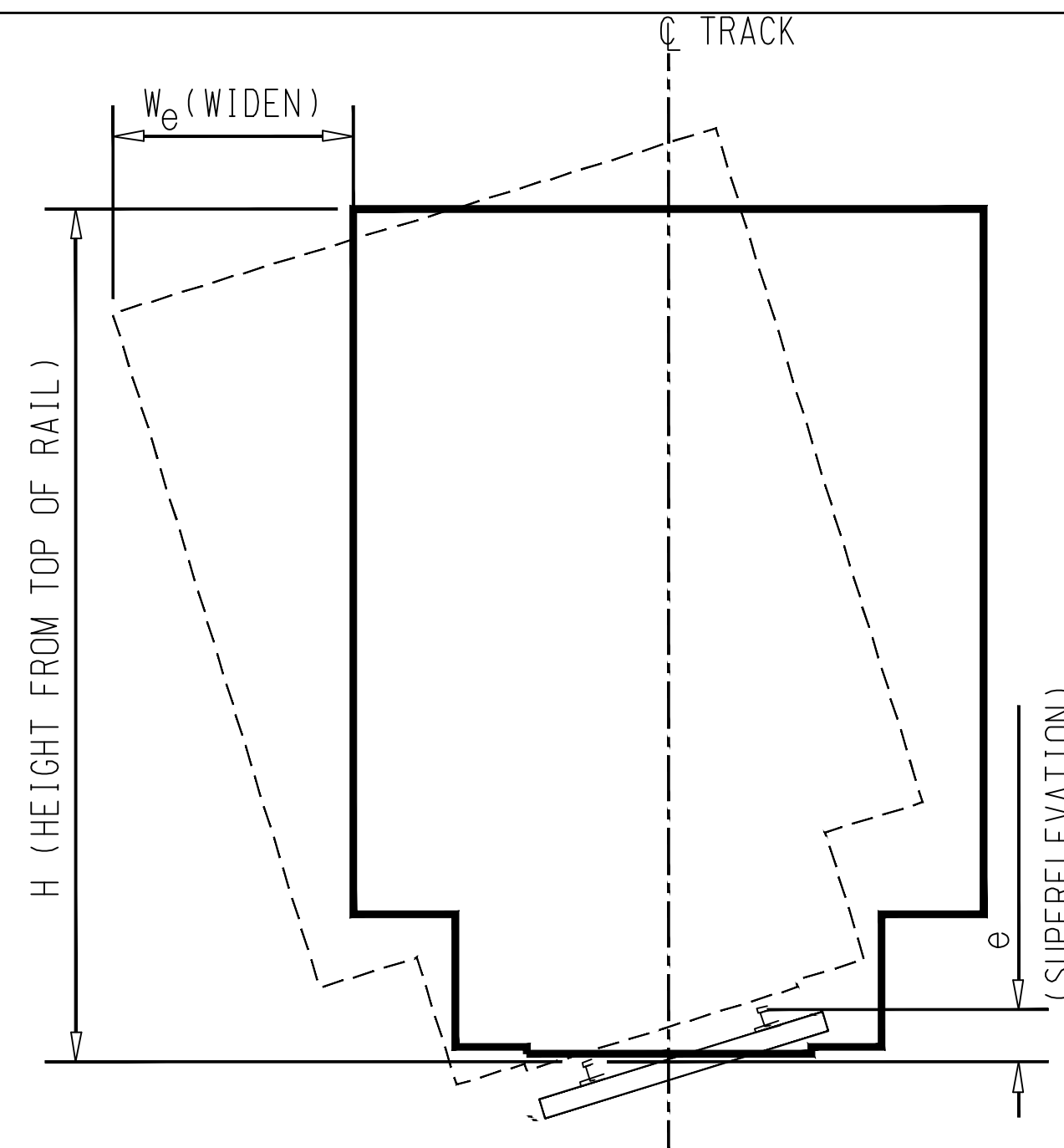


TANGENT TRACK

(CLEARANCE ENVELOPE ON TANGENT TRACK)

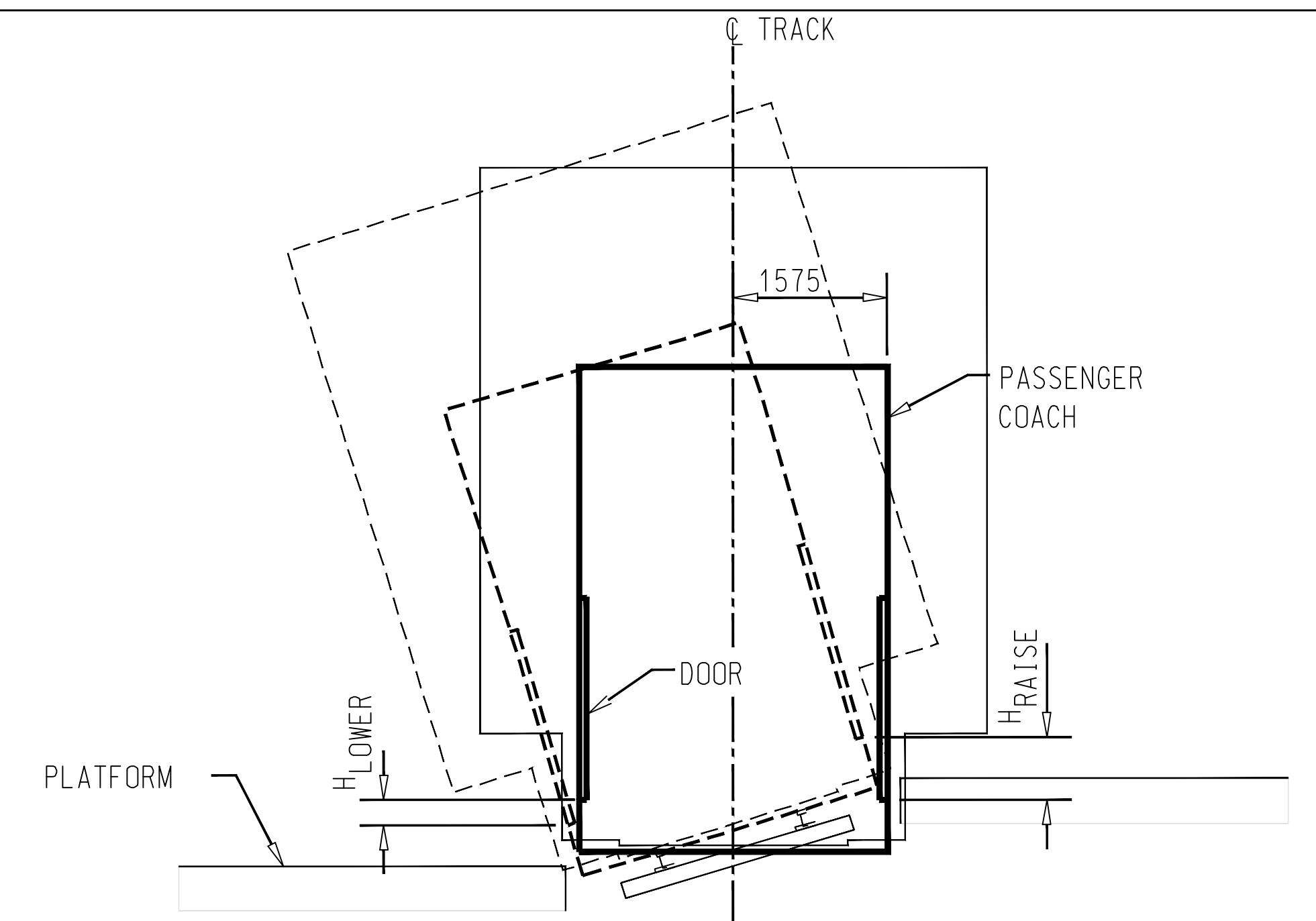
BELOW 5" CLEARANCE=3'-10"
 BETWEEN 4' AND 5" CLEARANCE=5'-9"
 ABOVE 4' CLEARANCE=8'-6"+W_d(SEE TABLE 1)



CURVED TRACK

(CLEARANCE ENVELOPE ON SUPERELEVATED TRACK)

BELOW 5" CLEARANCE=3'-10"+W_e(SEE TABLE 2) + W_c(SEE TABLE 3)
 BETWEEN 4' AND 5" CLEARANCE=5'-9"+W_e(SEE TABLE 2) + W_c(SEE TABLE 3)
 ABOVE 4' CLEARANCE=8'-6"+W_d(SEE TABLE 1) + W_e(SEE TABLE 2) + W_c(SEE TABLE 3)



PLATFORM ON CURVED TRACK

(ADJUST PLATFORM HEIGHT FOR SUPERELEVATION)
 PLATFORMS SHOULD NOT BE ON SUPERELEVATED TRACK UNLESS NO OTHER PRACTICAL SOLUTION EXISTS

TABLE 4
 TABLE OF PLATFORM HEIGHT
 ADJUSTMENT FOR SUPERELEVATION

e (INCHES)	e (mm)	H _{LOWER} (mm)	H _{LOWER} (INCHES)	H _{REISE} (mm)	H _{REISE} (INCHES)
1	25.4	12.7	1/2	38.1	1 1/2
1 1/2	38.1	19.05	3/4	57.15	2 1/4
2	50.8	25.4	1	76.2	3
2 1/2	63.5	38.1	1 1/2	101.6	4
3	76.2	44.45	1 3/4	114.3	4 1/2
3 1/2	88.9	50.8	2	139.7	5 1/2
4				PLATFORM NOT PERMITTED	

TABLE 1
 ADDITIONAL CLEARANCE W_d
 "AIR GAP*" REQUIRED FOR ADJACENT
 STRUCTURES HIGHER THAN 1219mm
 (4') ABOVE TOP OF RAIL

TRACK SPEED (mph)	W _d (mm)	W _d (INCHES)
30	25.4	1.0
40	38.1	1.5
50	50.8	2.0
60	63.5	2.5
70	76.2	3.0
80	88.9	3.5
90	101.6	4.0
100	114.3	4.5

*AIR GAP IN ADDITIONAL CLEARANCE BEYOND THE MINIMUM ENVELOPE, REQUIRED FOR FIXED STRUCTURES ADJACENT TO THE TRACK, THE AIR GAP ACCOUNTS FOR TOLERANCES OF TRACK AND ADJACENT STRUCTURES. AT GO'S DISCRETION THE REQUIREMENT FOR AN AIR GAP MAY BE WAIVED.

TABLE 2
 TABLE OF ENVELOPE WIDENING
 FOR SUPERELEVATION
 AT THE TOP OF THE CLEARANCE
 ENVELOPE * (7010mm)

e (INCHES)	e (mm)	W _e (mm)	W _e (INCHES)
1	25.4	114.3	4 1/2
1 1/2	38.1	177.8	7
2	50.8	241.3	9 1/2
2 1/2	63.5	298.45	11 3/4
3	76.2	355.6	14
3 1/2	88.9	412.75	16 1/4
4	101.6	469.9	18 1/2
4 1/2	114.3	533.4	21
5	127	590.55	23 1/4

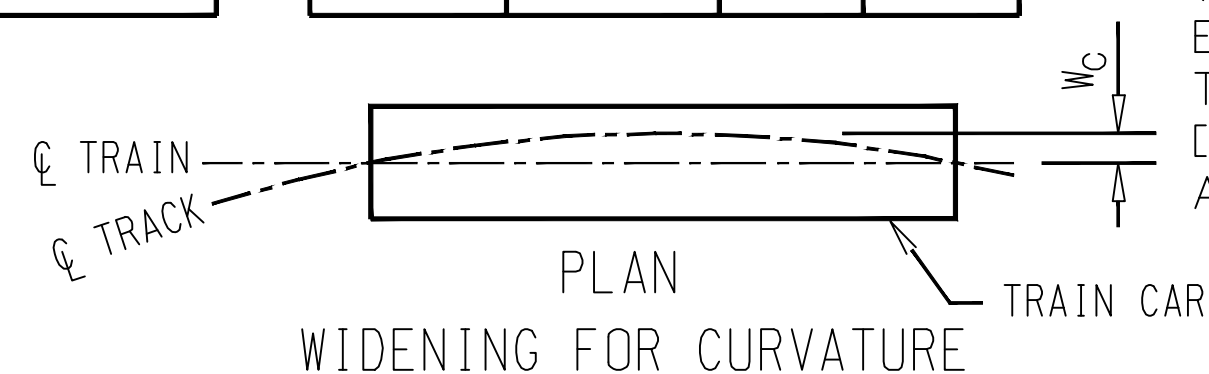
*FORMULA FOR WIDENING CLEARANCE ENVELOPE FOR SUPERELEVATION AT ANY SPECIFIC HEIGHT ABOVE TOP-OF-RAIL:
 $W_e = h \times e / 1504$
 W_e - WIDENING OF CLEARANCE ENVELOPE
 e - SUPERELEVATION
 1504 - CONSTANT (DISTANCE BETWEEN CENTRE OF RAILS)
 h - HEIGHT TO OBSTRUCTION ABOVE TOP OF RAIL

TABLE 3
 TABLE OF WIDENING FOR
 HORIZONTAL CURVATURE

DEGREE OF CURVE	RADIUS (m)	W _c (mm)	W _c (mm)
1	1746	25.4	1
2	873	50.8	2
3	582	76.2	3
4	436	101.6	4
5	349	127	5
6	291	152.4	6
7	249	177.8	7
8	218	203.2	8
9	194	228.6	9
10	174	254	10
11	159	279.4	11
12	145	304.8	12
13	134	330.2	13
14	125	355.6	14

GENERAL NOTES:

- THIS DRAWING APPLIES TO STRUCTURES OVER OR BESIDE THE RAILWAY TRACKS, EXCEPT FOR RAILWAY TUNNELS, BRIDGES, SNOW SHEDS, OR ANY STRUCTURES RELATED TO INDUSTRIAL SIDINGS. EXAMPLES OF STRUCTURES TO WHICH THIS STANDARD APPLIES INCLUDE PLATFORMS, CANOPIES, BUILDINGS, POLES, FENCES, HARDRAILS, ETC..
- THIS DRAWING IS AN AMENDMENT TO GO TRANSIT STANDARD PLAN GTS-3003 AND GO TRANSIT TRACK STANDARDS (GTTS) SECTION 19.3 "TRACK CLEARANCE AND CENTRES", SHOULD THERE BE A CONFLICT BETWEEN THIS DRAWING AND THE STANDARDS, THE MOST RESTRICTIVE SHALL APPLY.
- THIS DRAWING IS ONLY PROVIDED TO CLARIFY THE REQUIREMENTS OF GTS-3003 AND GTTS 19.3 WHICH ARE THE OFFICIAL STANDARDS OF THE RAILWAY. THE PURPOSE OF THE CLARIFICATION IS THE EFFECTS OF CURVATURE, SUPERELEVATION AND CONSTRUCTION TOLERANCE ON THE STANDARD CLEARANCE REQUIREMENTS.
- SHOULD IT NOT BE POSSIBLE TO ACHIEVE THE STATED CLEARANCES THE SENIOR MANAGER OF TRACK AND STRUCTURES (CORRIDOR MAINTENANCE) MUST BE NOTIFIED. AS PER GTTS 19.3 THE SENIOR MANAGER OF TRACK AND STRUCTURES (CORRIDOR MAINTENANCE) SHOULD ENSURE THE PROPOSED ENCROACHMENT DOES NOT IMPACT RAILWAY SAFETY AND THAT APPROPRIATE DEPARTMENTS. [WITHIN GO TRANSIT AND AT TRANSPORT CANADA], WHERE REQUIRED, ARE ADVISED OF LESS THAN STANDARD CLEARANCE.



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

0	18/08/31	REVISED PDF VERSION ESTABLISHED	
No.	Date	Revision	By Approved

Standard / **TRACK CLEARANCE DESIGN GUIDELINE**

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



Date AUG 31, 2018 Plan Number GTS-3004 Rev 0

REFERENCE: Sheet 1 OF 1