SECTION THROUGH PARAPET

ALL POSTS CELCIUS 355 90 X 90 RHS

TOP & MID RAILS CELCIUS HBP 100 X 100 RHS

* DIMENSION MAY BE ADJUSTED THUS FOR ALTERNATIVE UPSTAND WIDTHS:-
130 mm FOR 450mm WIDE UPSTAND AS SHOWN
145 mm FOR UPSTANDS OF 460 mm OR GREATER

ALL INFILLS CELCIUS 355 40 X 40 RHS

BOTTOM RAIL CELCIUS 355 40 X 40 RHS

10 min 30 max BEDDING PLUS ANY FALLS

TRAFFIC FACE

M20 ANCHORAGE BY CORUS TUBES APPROVED SUPPLIER.
ANCHOR BOLTS TO BE M20 HEXAGONAL HEAD STAINLESS STEEL SCREWS TO GRADE A4.80 COMPLETE WITH M20 FORM 'A' GRADE A4 STAINLESS STEELWASHER, NYLON TOP HAT WASHER & M22 x 50mm O/DIA. x 4mm THICK GALVANISED STEEL WASHER.
NYLON TOP HAT WASHER TO BE FITTED ABOVE THE GALVANISED STEEL WASHER & BELOW THE STAINLESS STEEL WASHER AND SCREW HEAD.
ENGAGEMENT OF SCREWS INTO ANCHORAGE SOCKET TO BE IN ACCORDANCE WITH THE MANUFACTURERS STIPULATED REQUIREMENTS.

ADJOINING PAVED SURFACE

50 min UPSTAND AT FRONT FACE OF PLINTH, 100 MAX AT ANY POINT ON PLINTH CROSS SECTION

* 135 @ 450 mm WIDE UPSTAND

END RETURN RAIL CELCIUS HBP 100 X 100 RHS

450 min CONCRETE WIDTH

1140 / 410 / 255 / 25 / 10 max / 355 / 450 min.

TYPICAL ELEVATION ON TRAFFIC FACE OF PARAPET

END PANEL TO SUIT PARAPET
200 min 660 max
450 NOMINAL
NOMINAL PANEL LENGTH
BOLTED RAIL JOINT IN RAILS TO BE A MIN OF 450 mm FROM POST

TOP & MID RAILS CELCIUS HBP 100 X 100 RHS

40 X 40 RHS BOTTOM RAIL CELCIUS 355

ALL POSTS CELCIUS 355 90 x 90 RHS

3000 max / 3700 / 3700 / 3700

TYPICAL END BAY ONLY TYPICAL INTERMEDIATE BAY TYPICAL INTERMEDIATE BAY TYPICAL INTERMEDIATE BAY

MAX INTERMEDIATE POST CENTRES 3750 min POST CENTRES 2500mm EXCEPT AT SPECIAL SITUATIONS, E.G. ENDS AND EXPANSION JOINTS.

450 NOMINAL / 450 NOMINAL / NOMINAL PANEL LENGTH / NOMINAL PANEL LENGTH

TYPICAL PLAN ON PARAPET

200 min 660 max
3000 max
TYPICAL END BAY ONLY
90°
TRAFFIC FACE

BASEPLATE DETAIL

330 / 75 / 180 / 75
220 / 120
105 / 180 / 330
45 / 26 WIDE x 36 LONG
4 No SLOTS
TRAFFIC FACE

ANCHOR CRADLE DETAIL

SECTION THROUGH UPSTAND

191 o/a / 164
135 / 180
135 @ 450mm WIDE UPSTAND
TRAFFIC FACE OF CONCRETE

PLAN VIEW ON UPSTAND

230 o/a / 230 o/a
90°
TRAFFIC FACE OF CONCRETE

POST ULTIMATE MOMENT CAPACITY TO ALL POSTS 14.1kN/m
CO-EXISTING SHEAR 21.8kN
POST ULTIMATE SHEAR CAPACITY 131kN

NOTE ;
CAST-IN ANCHOR CRADLE MAY BE SUBSTITUTED FOR HAPAS APPROVED CHEMICAL ANCHORS OF APPROPRIATE SIZE AND LOAD CAPACITY WHERE REQUIRED BY THE SITE CONDITIONS.

ANCHOR CRADLE SHOWN; M20 SSR170 AS MANUFACTURED BY FIXING CENTRE LTD. OR ALTERNATIVE (ALTERNATIVE HAPAS APPROVED ANCHOR CRADLE OF APPROPRIATE SIZE AND LOAD CAPACITY MAY ALSO BE USED. DIMENSIONS FOR ALTERNATIVE ANCHOR TO BE CHECKED WITH THE FABRICATOR)
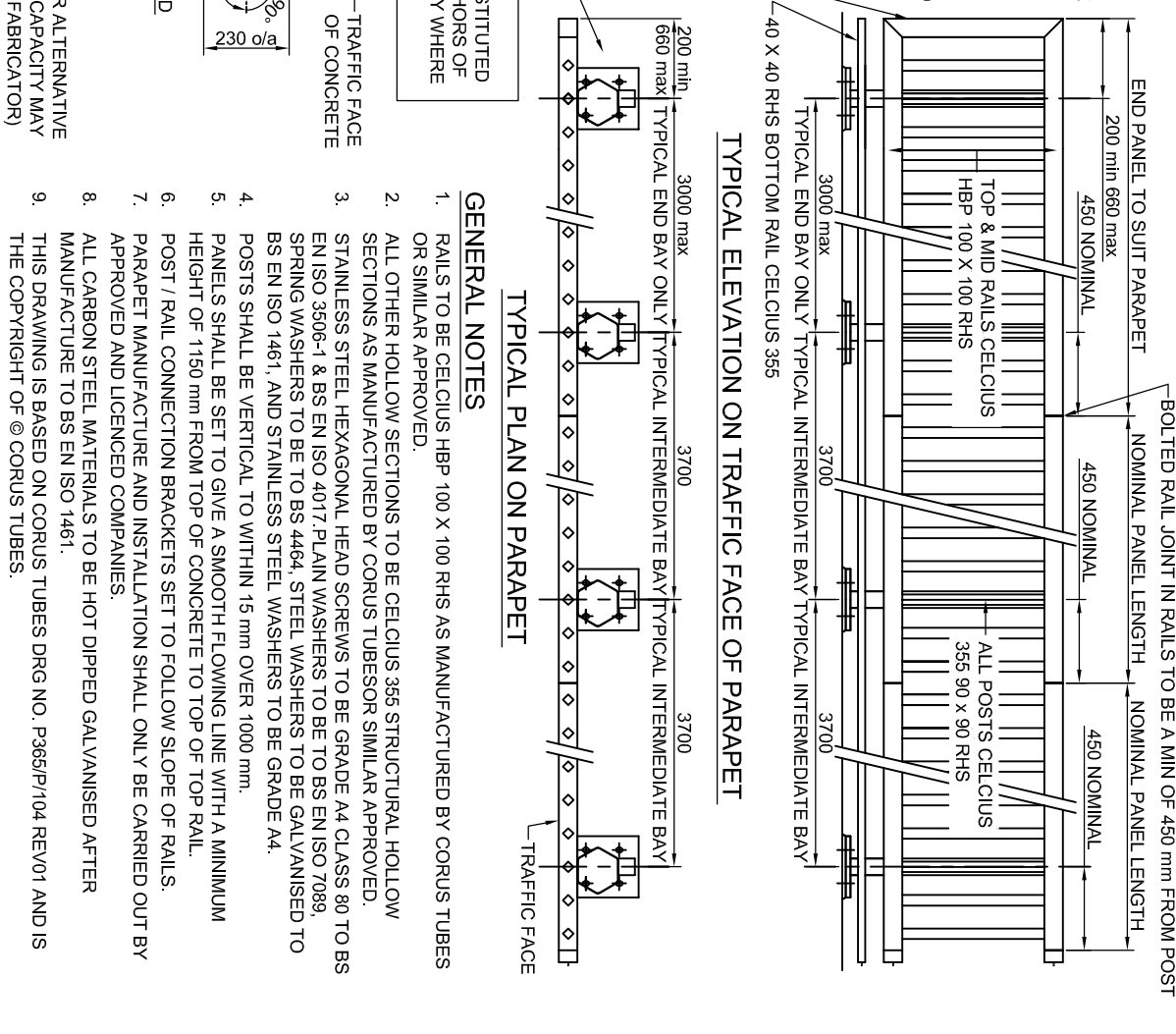
GENERAL NOTES

1. RAILS TO BE CELCIUS HBP 100 X 100 RHS AS MANUFACTURED BY CORUS TUBES OR SIMILAR APPROVED.

2. ALL OTHER HOLLOW SECTIONS TO BE CELCIUS 355 STRUCTURAL HOLLOW SECTIONS AS MANUFACTURED BY CORUS TUBESOR SIMILAR APPROVED.

3. STAINLESS STEEL HEXAGONAL HEAD SCREWS TO BE GRADE A4 CLASS 80 TO BS EN ISO 3506-1 & BS EN ISO 4017.PLAIN WASHERS TO BE TO BS EN ISO 7089. SPRING WASHERS TO BE TO BS 4464. STEEL WASHERS TO BE GALVANISED TO BS EN ISO 1461, AND STAINLESS STEEL WASHERS TO BE GRADE A4.

4. POSTS SHALL BE VERTICAL TO WITHIN 15 mm OVER 1000 mm.

5. PANELS SHALL BE SET TO GIVE A SMOOTH FLOWING LINE WITH A MINIMUM HEIGHT OF 1150 mm FROM TOP OF CONCRETE TO TOP OF TOP RAIL.

6. POST / RAIL CONNECTION BRACKETS SET TO FOLLOW SLOPE OF RAILS.

7. PARAPET MANUFACTURE AND INSTALLATION SHALL ONLY BE CARRIED OUT BY APPROVED AND LICENCED COMPANIES.

8. ALL CARBON STEEL MATERIALS TO BE HOT DIPPED GALVANISED AFTER MANUFACTURE TO BS EN ISO 1461.

9. THIS DRAWING IS BASED ON CORUS TUBES DRG NO. P365/P/104 REV01 AND IS THE COPYRIGHT OF © CORUS TUBES.

FRAMEWORK CONTRACT FOR HIGHWAY WORKS - MINOR WORKS CONTRACT

Walsall Council
Sandwell Metropolitan Borough Council
Wolverhampton City Council
Dudley Metropolitan Borough Council
Regeneration and Transportation

Drawing Title:
N1 VEHICLE PARAPET (50mph) VERTICAL INFILL

STANDARD DETAIL

Drawing Number: SD/400/04

Rev: 01

DRAWN	CHECKED	APN	DATE	SCALE
		JBF	JUL/09	NTS