



Spalding Pylon Signage Manual - 11954

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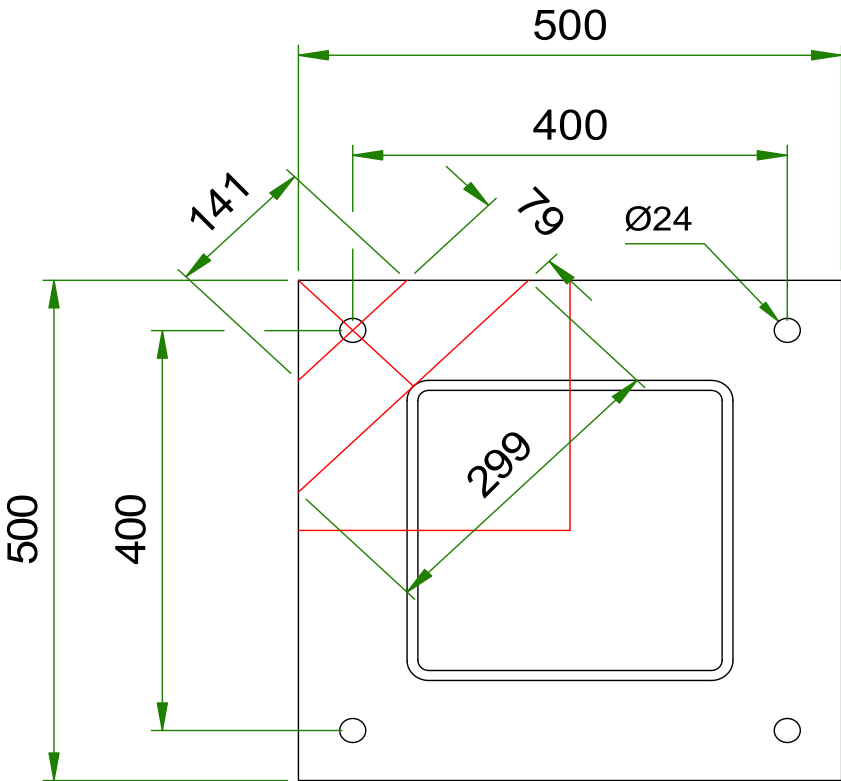
4 Foundation Bolts

4.1 Factored Bolt Tension for 1 leg (s) Ft = 63.42 = 79.27 kN
bolts per leg base 4 2 x 0.4

4.2 Bolt Tension Capacity of M20 grade8.8 foundation bolt = 110.25 kN
Thus Okay

5 Base Plate Thickness tmin

tmin = $\sqrt{\left(\frac{79.27 \times 1000 \times 79 \times 6}{1.2 \times 265.00 \times (299 + 141)}\right)}$ = 16.39 mm
Therefore 20.00 mm



6 Signage Legs

6.2 Factored Bending Moment Muls - PER LEG Muls = 63.42 kNm
6.2 Moment Capacity of 300x300x6.3shs leg Mc = 249.57 kNm
Grade S 355 J2H Cold Thus Okay
6.3 Deflection
6.4 Maximum deflection dmax = L / 180 = 42.80 mm
6.5 Minimum Inertia I min = 9003 cm ^4
300x300x6.3shs leg I = 10547 cm ^4
Thus Okay

7 Base to Leg Weld Size

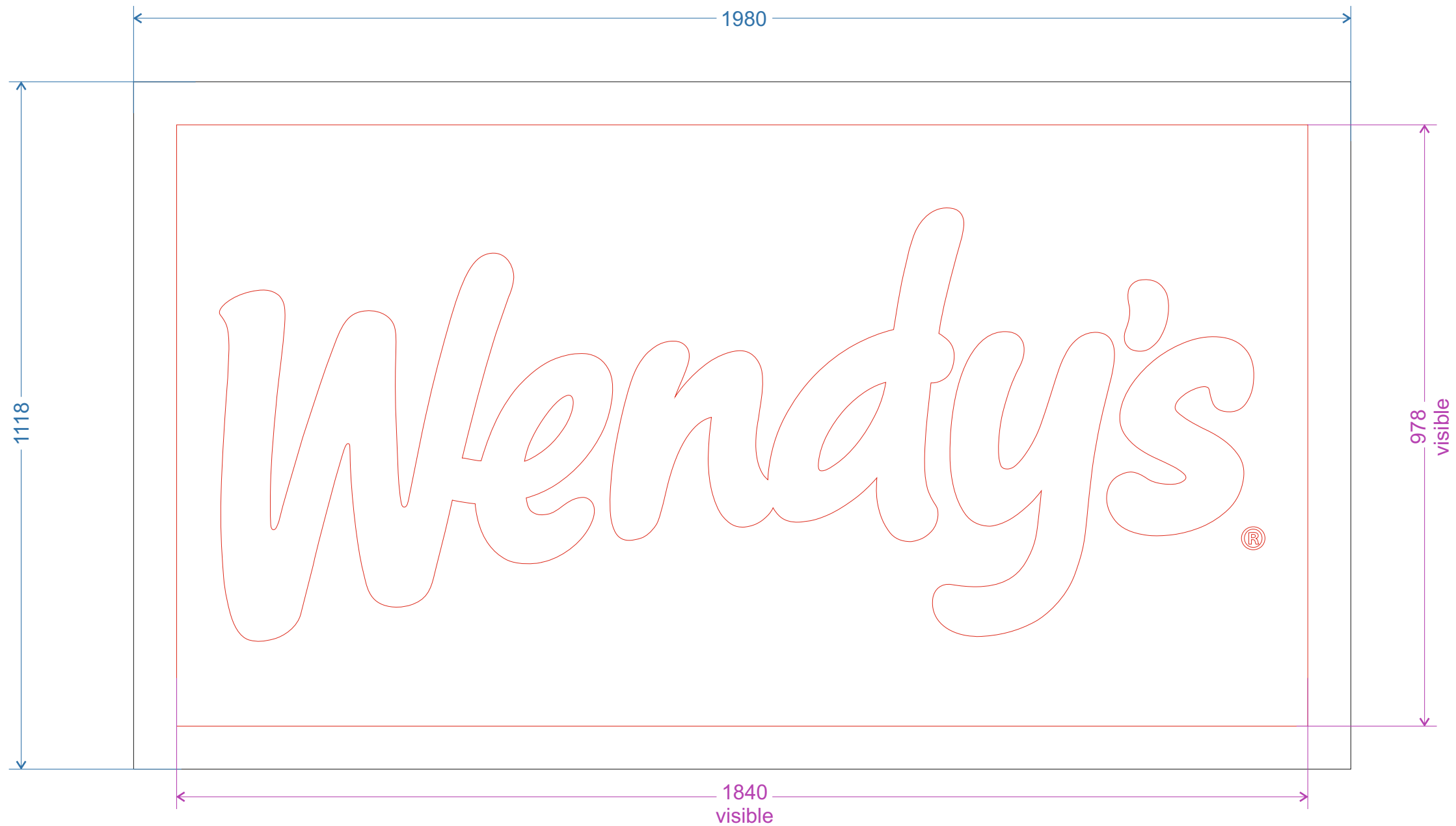
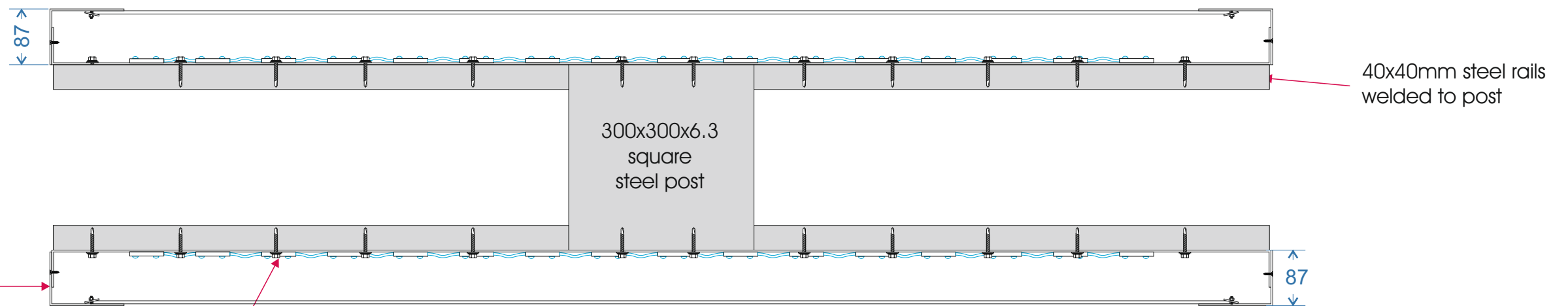
7.1 Try 8 mm fillet weld 5.7 Throat

Z = $\frac{31.13 \times 31.13^2}{6} - \frac{30.0 \times 30.0^2}{6}$ = 529 cm²

M of R = 529 x 220 = 116.28 kNm
> 63.42 kNm
Thus Okay

All measurements in millimetres unless stated otherwise.							
CLIENT:	Linx Construction	DRAWING NUMBER:	JOB NO:	DRAWN BY:	REV	DATE	BY DESCRIPTION
PROJECT:	Wendy's Spalding	DM-0125-72	11954	D.Murfin	A	03.02.25	DJ Amendment to construction
DESCRIPTION:	Pylon Sign - Baseplate	DATE:	ITEM REF:	SCALE:	B	00.00.25	XX XXXXXX
		15.01.2025	n/a	a/s @A3	C	00.00.25	XX XXXXXX
					D	00.00.25	XX XXXXXX
					E	00.00.25	XX XXXXXX





3mm aluminum 'frame' panel
with 87mm returns,
middle fret cut out
finished RAL 7024
graphite grey externally
& white internally

White LED
modules on white
ACM carrier panel.

5mm Opal 050 acrylic
panel c/w printed red
Pantone 186c vinyl to face

CLIENT:	Linx Construction	DRAWING NUMBER:	JOB NO:	DRAWN BY:	REV	DATE	BY	DESCRIPTION
PROJECT:	Wendy's Spalding	DM-0125-71	11954	D.Murfin	A	03.02.25	DJ	Amended construction
DESCRIPTION:	Pylon Sign Panels	DATE:	ITEM REF:	SCALE:	B	00.00.25	XX	XXXXXX
		15.01.2025	n/a	a/s @A3	C	00.00.25	XX	XXXXXX
					D	00.00.25	XX	XXXXXX
					E	00.00.25	XX	XXXXXX

All measurements in millimetres unless stated otherwise.



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