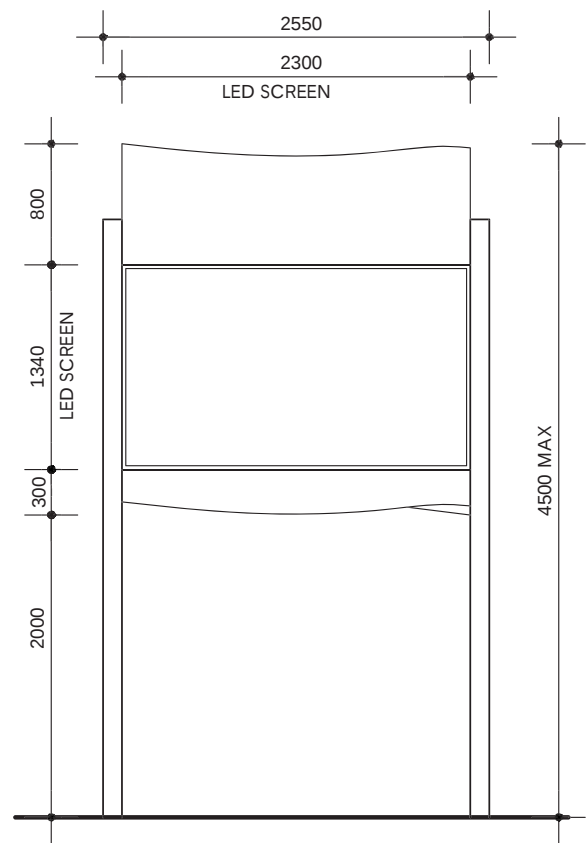




ELEVATION
SCALE 1:50 @ A3



OVERALL SITE
NOT TO SCALE



CLIENT

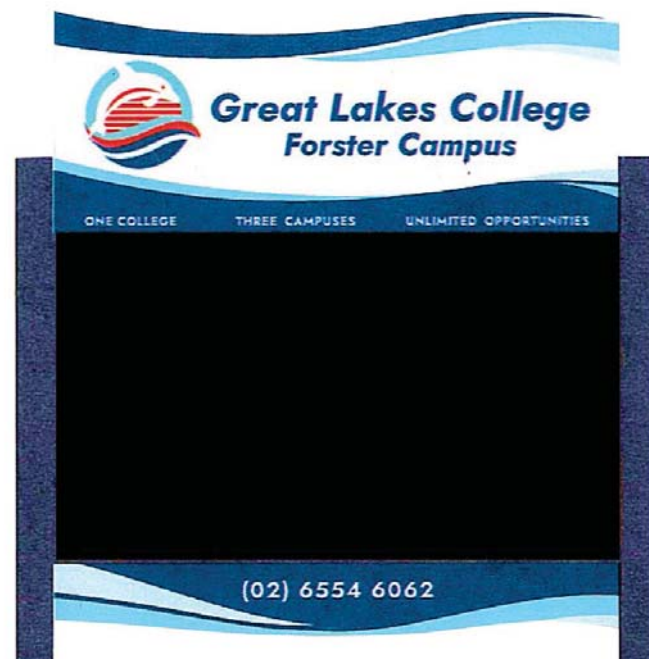
GREAT LAKES COLLEGE
FOSTER CAMPUS

PROJECT

INSTALLATION OF
DIGITAL SIGN

LOCATION

LOT 1 DP 857691
2 CAPE HAWKE DRIVE
FORSTER NSW 2428



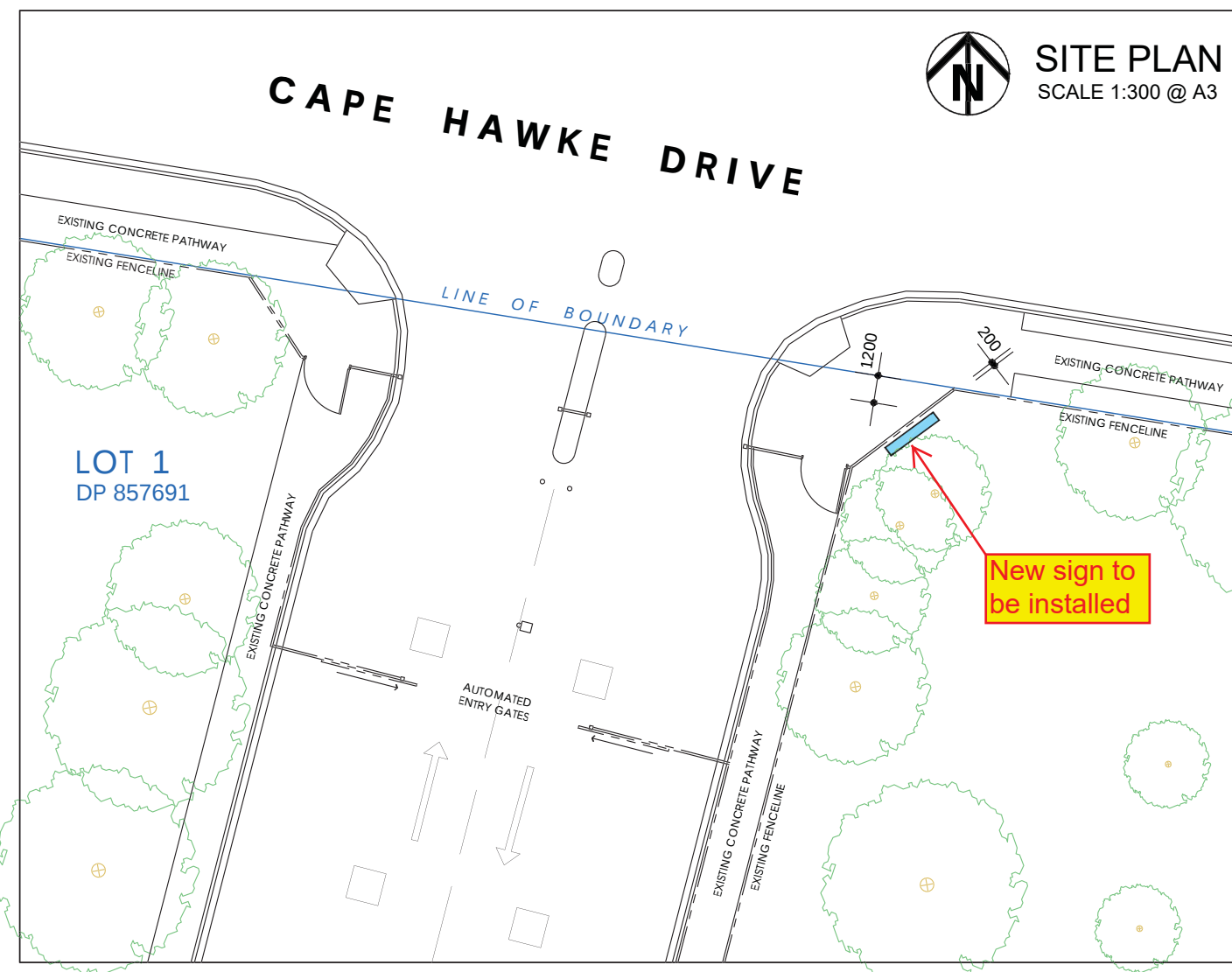
SIGNAGE DESIGN

ARTISTIC DESIGN - SHOWN FOR VISUAL REPRESENTATION
PURPOSES OF THE SIGNAGE ELEMENTS ONLY

SITE INVESTIGATION

- A COMPLETE INVESTIGATION OF SERVICES HAS NOT BEEN UNDERTAKEN FOR THIS SITE PLAN.
- CONFIRMATION OF CRITICAL POSITIONS SHOULD BE OBTAINED WITH ON SITE DETECTION SERVICES.
- THIS PLAN SHOULD NOT BE USED FOR CRITICAL DESIGN DIMENSIONS IN RELATION TO EXISTING STRUCTURES AND SERVICES.
- PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, AUTHORITIES SHOULD BE CONTACTED FOR LOCATION OF ALL SERVICES.
- NEGLECTING TO DIAL 1100 BEFORE DIGGING OR EXCAVATING CAN LEAD TO COSTLY DISRUPTION TO ESSENTIAL SERVICES, AND INJURY OR DEATH TO WORKERS AND THE GENERAL PUBLIC. IT CAN ALSO LEAD TO HEAVY FINANCIAL PENALTIES.

LEGEND	
	BOUNDARY LINE
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED



SITE PLAN
SCALE 1:300 @ A3

GENERAL NOTES:

Figured dimensions take preference, do not scale from plans. IF IN DOUBT, ASK. Contractors are responsible to check and verify all information prior to tendering and shall report any discrepancies or omissions.

Incorrect inclusions or omissions or typographical errors are not to be used in the interpretation of any information in these drawings. Nor can they be used to claim any additional or alternate items or services as a result of such errors. The incorrect or omitted details shall be subject to subsequent correction by CEO and the documentation re-issued.

These drawings are to be read in conjunction with the relevant client-builder contract. The contract is to take precedence over these drawings in all matters including but not limited to: finishes, inclusions, upgrades, exclusions, additional costs and works by owner/builder.

All work to be carried out in a tradesman like manner, and in accordance with local codes, the BCA, Australian Standards and any relevant authority requirements.

All concrete and structural details to engineer's specification.

Engineers details and specifications take precedence over these plans.

Finished ground levels are approximate only and should be confirmed onsite.

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A	06.12.24	INITIAL FOR CLIENT CHECK
Issue	Date	Amendments

SHEET TITLE

SITE NOTIFICATION PLAN

SHEET No.
A01

JOB No.

JDS-24006

PROJECT: H Frame
Free Standing Sign FS[2.6x2.3x5]

LOCATION: WIND REGION
A ONLY

REFERENCE: JDS001A_c Rev 0

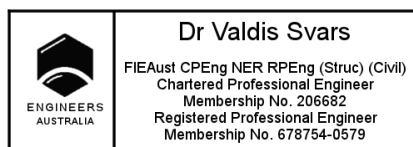
START DATE: 21-May-24

COMPLETED: 21-May-24

ENGINEER: NT

Rev No.	Date	Revision Details
0	21-May-24	Issued for construction

Valdis Svavs



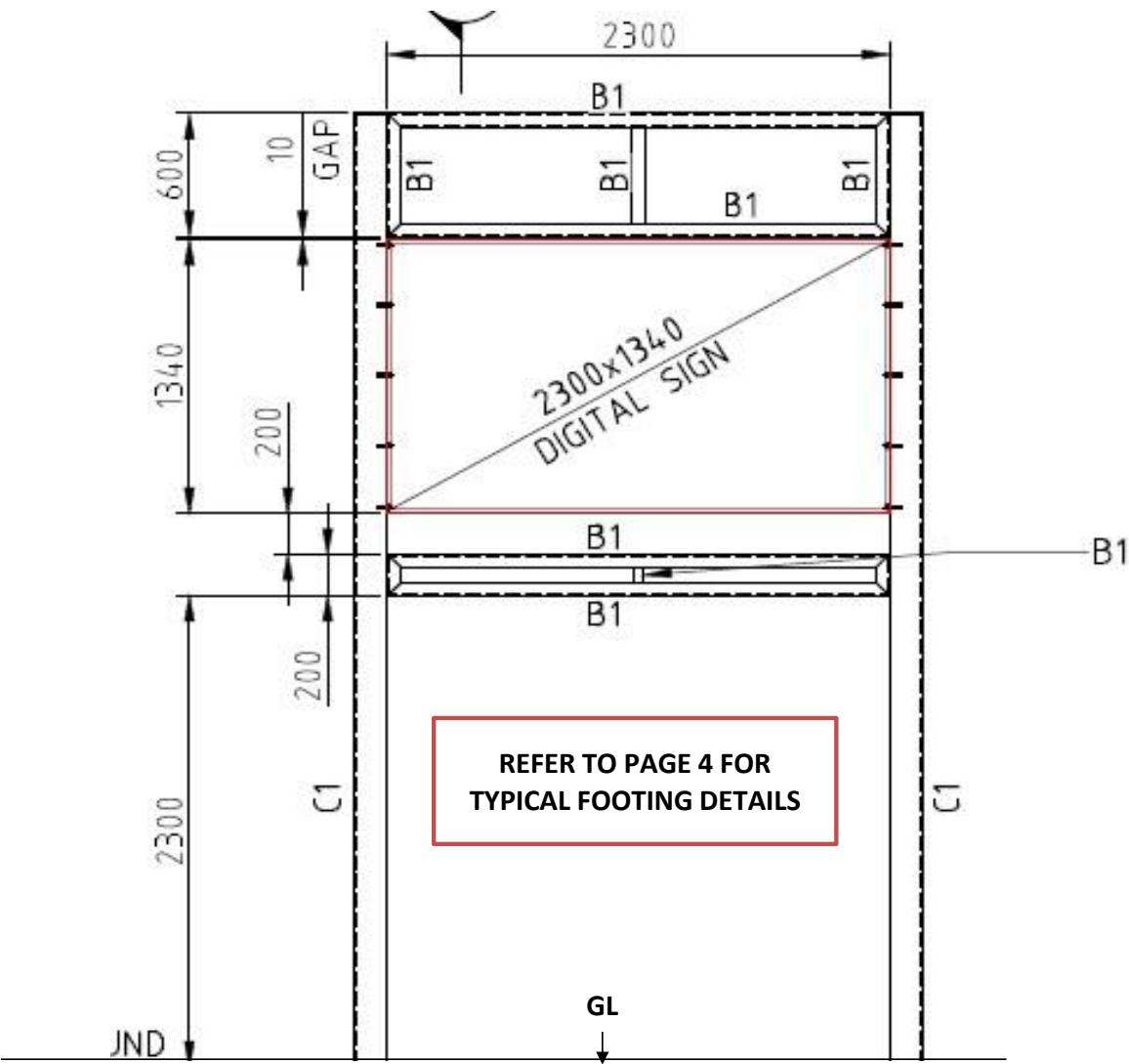
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NSW: Accredited Certifier Structural Engineering Compliance BPB0398
Qld: Registered Professional Engineer of Qld, Civil RPEQ 3414
Tas: Accredited Certifier, Civil & Structural CC4026I
NT: Certifying Engineer, Structural 47035ES
New Zealand: Chartered Member (CMEngNZ)

Date: 21-May-24

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VISTEK STRUCTURAL + CIVIL ENGINEERS	H Frame Free Standing Sign FS[2.6x2.3x5]	JDS001A_c	Rev 0																																																									
	WIND REGION A ONLY	21-May-24	2																																																									
INTRODUCTION:																																																												
SCOPE: Engineering design and details for freestanding pylon sign: 1. Design loads: DL Sign dead load [self weight] WL Wind load [Region & Terrain Category] EL Earthquake load [where applicable] 2. Design and detail vertical supports for sign face. 3. Footing design and details: # Individual circular pier footings for each vertical support.																																																												
REGULATIONS & CODES: NCC - 2022: National Construction Code AS/NZS 1170 Part 0 - 2002 - Structural design actions — General principles (incorporating amendments 1, 3 and 4) AS/NZS 1170 Part 1 - 2002 - Structural design actions — Permanent, imposed and other actions (incorporating amendments 1 and 2) AS/NZS 1170 Part 2 - 2021 - Structural design actions — Wind actions AS 1170 Part 4 - 2007 - Structural design actions — Earthquake actions in Australia (incorporating amendments 1 and 2) AS 3600 - 2018 - Concrete structures (incorporating amendments 1 and 2) AS/NZS 1664 Part 1 - 1997 - Aluminium structures — Limit state design (incorporating amendment 1)																																																												
<table> <tr> <td>MATERIALS:</td><td></td><td>fy (Mpa)</td><td>fu (MPa)</td></tr> <tr> <td rowspan="2">Hot Rolled</td><td>UB, UC, PFC: Grade 300 (AS/NZS 3679.1 - 2010)</td><td>300</td><td>440</td></tr> <tr> <td>Plate: Grade 250 (AS/NZS 3678 - 2011)</td><td>250</td><td>410</td></tr> <tr> <td rowspan="7">Cold Formed</td><td>SHS: Grade C450 (AS1163 - 2009)</td><td>450</td><td>500</td></tr> <tr> <td>RHS: Grade C450 (AS 1163 - 2009)</td><td>450</td><td>500</td></tr> <tr> <td>CHS: Grade C350 (AS 1163 - 2009)</td><td>350</td><td>430</td></tr> <tr> <td>CA: Cold-formed angle (Duragal)</td><td>350</td><td>400</td></tr> <tr> <td>CC: Cold formed channels (Duragal)</td><td>400</td><td>450</td></tr> <tr> <td>CF: Cold-formed flats (Duragal)</td><td>350</td><td>400</td></tr> <tr> <td></td><td></td><td></td></tr> <tr> <td rowspan="2">Bolts</td><td>Bolts (4.6/S) - [Commercial]</td><td>240</td><td>400</td></tr> <tr> <td>Bolts (8.8/S) - [High Strength Structural]</td><td>660</td><td>830</td></tr> <tr> <td rowspan="4">Welds</td><td>Welding - Category: General Purpose</td><td>GP</td><td>410</td></tr> <tr> <td>100% Visual scanning, 10% Visual examination (Table 6.2.2 AS/NZS 1554.1: 2014)</td><td></td><td></td></tr> <tr> <td>Welding - Category: Structural Purpose</td><td>SP</td><td>410</td></tr> <tr> <td>100% Visual scanning, 10% Visual examination (Table 6.2.2 AS/NZS 1554.1: 2014)</td><td></td><td></td></tr> <tr> <td>Concrete:</td><td>Grade N25 [f'c @ 28 days]</td><td>25</td><td>MPa</td></tr> </table>				MATERIALS:		fy (Mpa)	fu (MPa)	Hot Rolled	UB, UC, PFC: Grade 300 (AS/NZS 3679.1 - 2010)	300	440	Plate: Grade 250 (AS/NZS 3678 - 2011)	250	410	Cold Formed	SHS: Grade C450 (AS1163 - 2009)	450	500	RHS: Grade C450 (AS 1163 - 2009)	450	500	CHS: Grade C350 (AS 1163 - 2009)	350	430	CA: Cold-formed angle (Duragal)	350	400	CC: Cold formed channels (Duragal)	400	450	CF: Cold-formed flats (Duragal)	350	400				Bolts	Bolts (4.6/S) - [Commercial]	240	400	Bolts (8.8/S) - [High Strength Structural]	660	830	Welds	Welding - Category: General Purpose	GP	410	100% Visual scanning, 10% Visual examination (Table 6.2.2 AS/NZS 1554.1: 2014)			Welding - Category: Structural Purpose	SP	410	100% Visual scanning, 10% Visual examination (Table 6.2.2 AS/NZS 1554.1: 2014)			Concrete:	Grade N25 [f'c @ 28 days]	25	MPa
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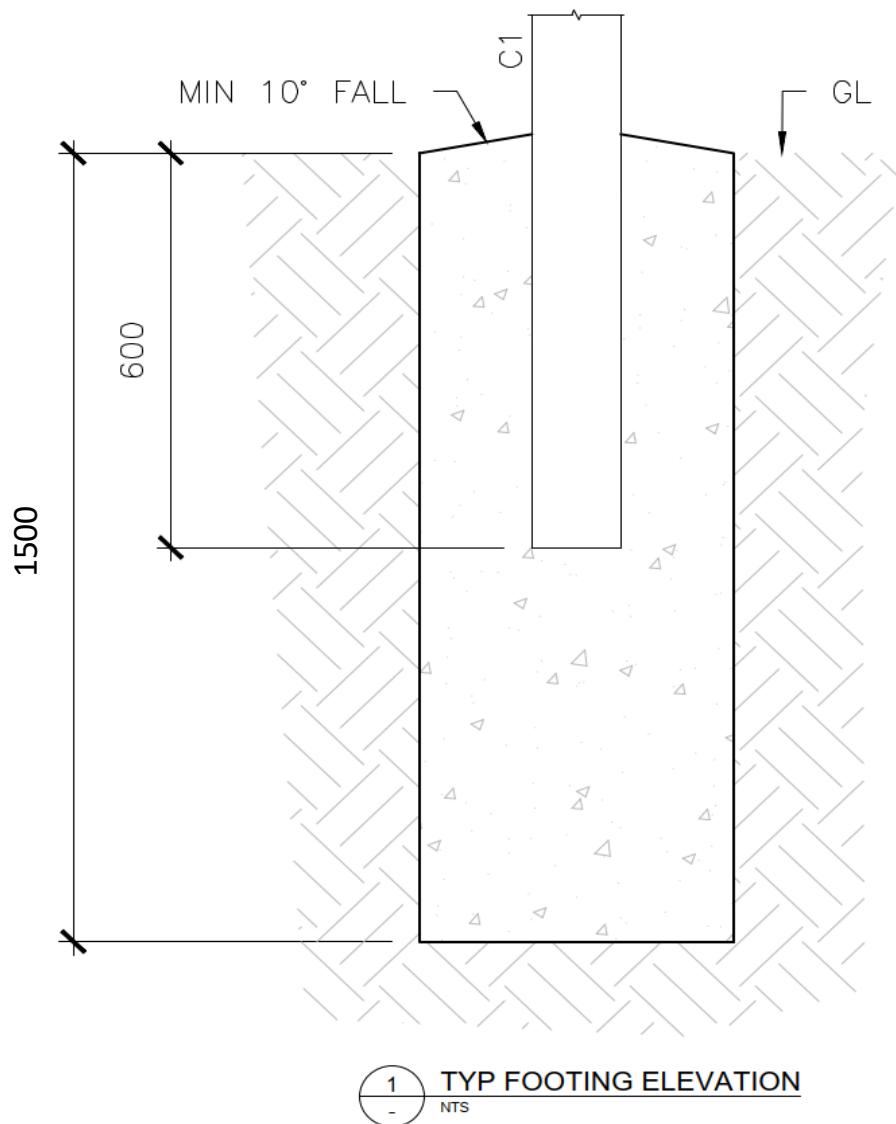
VISTEK STRUCTURAL + CIVIL ENGINEERS	H Frame Free Standing Sign FS[2.6x2.3x5]	JDS001A_c	Rev 0
	WIND REGION A ONLY	21-May-24	3
DIAGRAM 1: LARGE SIGN VARIANT - MEMBER SCHEDULE			



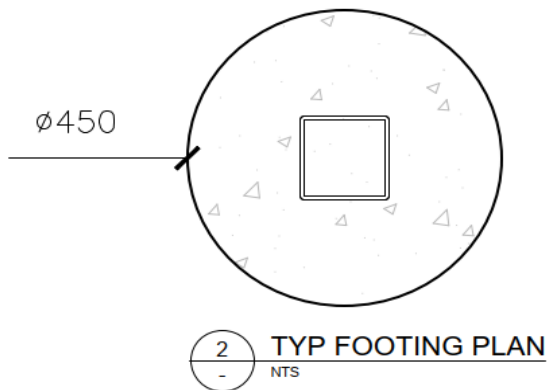
MEMBER SCHEDULE		
MEMBER	SIZE	COMMENTS
C1	127x6 SHS	ALUM 6060T5
B1	65x4 SHS	ALUM 6060T5
ALUM MEMBER WELDS: 3mm CFW ALL SIDES/ALL AROUND		

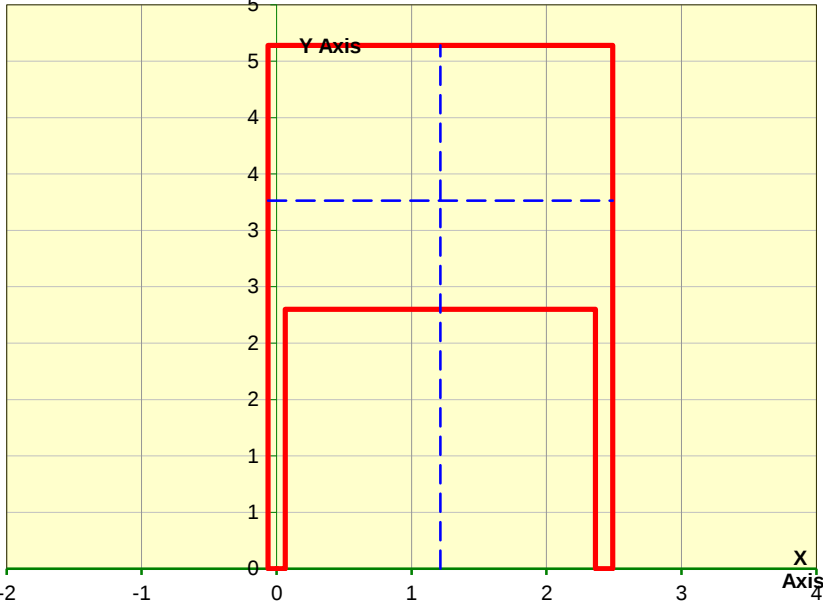
VISTEK STRUCTURAL + CIVIL ENGINEERS	H Frame Free Standing Sign FS[2.6x2.3x5]	JDS001A_c	Rev 0
	WIND REGION A ONLY	21-May-24	4

DIAGRAM 3: TYPICAL FOOTING DETAILS



1. CONCRETE: GRADE N25.
2. CONCRETE SHALL BE COMPACTED USING MECHANICAL VIBRATION.
3. CONCRETE SHALL BE POURED IN ONE CONTINUOUS POUR.
4. NOT TO BE LOCATED IN FILLED GROUND AND ALL UNSUITABLE MATERIAL TO BE REMOVED.
5. CONTRACTOR TO CONFIRM FINISHED GROUND LEVEL.
6. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE ALLOWABLE BEARING PRESSURE OF SOIL IS MINIMUM 100kPa.
7. CONTRACTOR IS RESPONSIBLE FOR COMPACTION OF SOIL IN ORDER TO ACHIEVE REQUIRED SOIL BEARING CAPACITY.
8. CONTRACTOR IS RESPONSIBLE FOR INVESTIGATING SITE GROUNDWATER LEVELS AND FOR IMPLEMENTING ANY DEWATERING MEASURES REQUIRED.
9. CONTRACTOR IS RESPONSIBLE FOR PROPPING OF SIGN WHILST CONCRETE CURING TIME IS MET
10. INSTALL 2 FOOTINGS PER SIGN, ONE FOOTING PER C1 POST



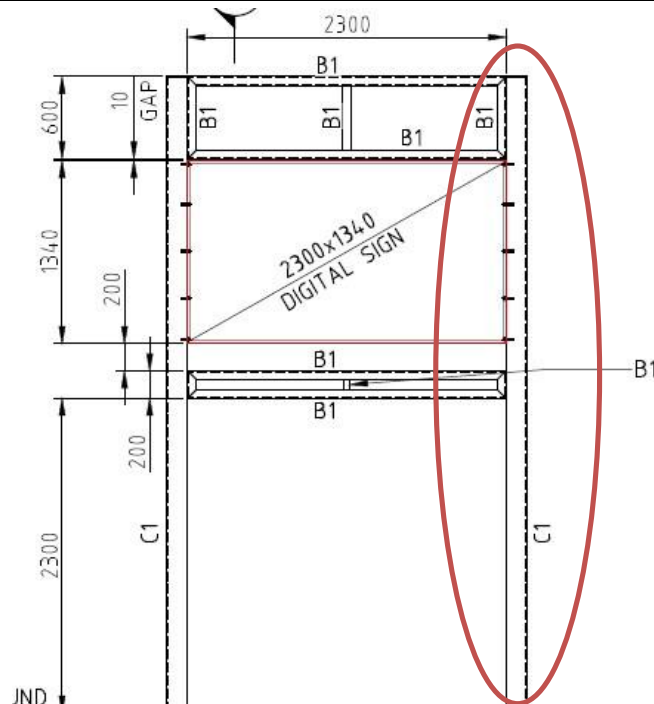
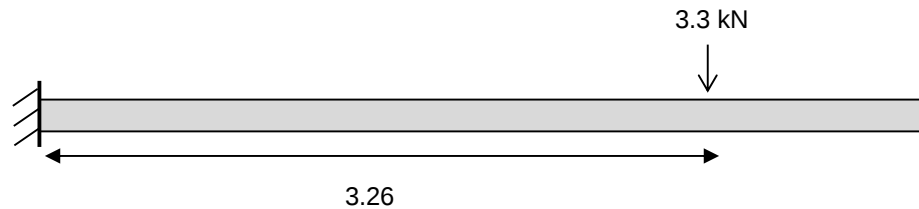
VISTEK STRUCTURAL + CIVIL ENGINEERS	H Frame Free Standing Sign FS[2.6x2.3x5]	JDS001A_c	Rev 0
	WIND REGION A ONLY	21-May-24	5
SECTION PROPERTIES:			
Units: m			
Nodes Coordinates			Section properties about axes parallel to reference axes with origin at section centroid
	x	y	
1	0.000	0.000	A = 6.56056 m ² P = 18.988 m x _c = 1.2135 m y _c = 3.26341032 m I _x = 5.85 m ⁴ I _y = 4.11 m ⁴ I _{xy} = 0 m ⁴ W = 2.554 m H = 4.64 m S _x ^{top} = 4.25 m ³ S _x ^{bot} = 1.79 m ³ S _y ^{right} = 3.22 m ³ S _y ^{left} = 3.22 m ³
2	-0.064	0.000	
3	-0.064	4.640	
4	2.491	4.640	
5	2.491	0.000	
6	2.364	0.000	
7	2.364	2.300	Section properties about principal axes
8	0.064	2.300	
9	0.064	0.000	θ _p = 0 deg I _{xp} = 5.85 m ⁴ I _{yp} = 4.11 m ⁴ I _p = 9.96 m ⁴ S _{xp} ^{top} = 4.25 m ³ S _{xp} ^{bot} = 1.79 m ³ S _{yp} ^{right} = 3.218 m ³ S _{yp} ^{left} = 3.218 m ³
10	0.000	0.000	
11			
12			
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		H Frame Free Standing Sign FS[2.6x2.3x5]	JDS001A_c	Rev 0
		WIND REGION A ONLY	21-May-24	6
SIGN DIMENSIONS & WIND PRESSURE:				
Item	Param	Detail / Formula	Value	Units
Site	REG	Region	A	***
	TC	Terrain Category	2.5	***
Geometry	R	Average Recurrence Interval	100	***
	V_R	Regional wind speed for R	41	m/s
	A_s	Area of sign face	6.56	m ²
	x_c	CoA from CL of LH support	1.21	m
	y_c	CoA above datum (top of footing)	3.26	m
	b	Average width of sign face	2.554	m
	c	Height of sign face	2.340	m
	h	Total height of sign above datum	4.640	m
	b_v	CL to CL of vert supports	2.427	m
	h_d	Height of datum above NGL (z = 0)	0.00	m
	z	Height above NGL (rounded up)	5	m
	C_p	Wind pressure coefficient	1.35	***
Coeff.	M_z	Terrain & height multiplier	0.87	***
Terrain	p_z	Pressure at ht z	0.76	kPa
Pressure	p_d	Strength design pressure	1.03	kPa
STR	p_s	Serviceability design pressure	0.84	kPa
SRV				
Force	W_s	Total wind load on sign face	6.76	kN
Moment	M_s	Total wind moment	22.06	kNm
STR	V_{max}	Max SF in vertical support	3.38	kN
	M_{max}	Max Mnt in vertical support	11.03	kNm

VISTEK STRUCTURAL + CIVIL ENGINEERS	H Frame Free Standing Sign FS[2.6x2.3x5]		JDS001A_c	Rev 0	
	WIND REGION A ONLY		21-May-24	7	
FOOTING: CIRCULAR PIER (UNREINFORCED CONCRETE)					
Item	Param	Detail / Formula	Value	Units	
Force	W_{vs}	Wind load on vert support	3.38	kN	
	y_c	CoA above datum (top of footing)	3.26	m	
	t_s	Depth of top soil	0.10	m	
Pier	B_f	Diam of circular pier	0.45	m	
	D_f	Depth of pier (below NGL)	1.50	m	
	y_w	Height to wind force	3.36	m	
	y_f	Effective depth of pier	1.40	m	
	y_t	Disn to top soil reaction	3.83	m	
	y_b	Disn to bottom soil reaction	4.61	m	
	y_{tb}	Disn between y_t & y_b	0.78	m	
	A_g	Gross footing area	0.16	m ²	
	A_f	Footing shear area	0.11	m ²	
	Z_f	Section modulus	0.01	m ³	
	Soil	f_{bu}	Ultimate bearing capacity of soil	100	kPa
Concrete	f_c	Concrete Grade N(f'c) (f'c @ 28 days)	25	MPa	
	ϕ	Strength reduction factor	0.60	***	
	$f_{ct,f}$	Characteristic tensile strength	3.0	MPa	
Capacity	ϕM_{cf}	Moment capacity	16.1	kNm	
	ϕV_{cf}	Shear capacity	29.3	kN	
Rct Top	R_t	Top reaction of footing	20.0	kN	
Rct Bot	R_b	Bottom reaction of footing	16.6	kN	
	f_{brg}	Max soil bearing stress	71.5	kPa	
	η_f	Unity Check = f_{brg} / f_{bu}	0.72	≤ 1 OK	
Pier Ftg	M_f	Max moment in pier footing	11.37	kNm	
	V_f	Max shear force in pier footing	20.03	kN	
	η_m	$M_f / \phi M_{cf}$	0.71	≤ 1 OK	
	η_v	$V_f / \phi V_{cf}$	0.68	≤ 1 OK	
	UC	Unity Check	0.97	≤ 1 OK	
Foundation Details					
Diameter of circular pier footing			450	mm	
Depth of pier footing (below NGL)			1500	m	
Concrete Grade N25 (f'c @ 28 days)			25	MPa	
Concrete Volume (no allowance for overcut or waste)			0.24	m ³	
Reinforcement			Nil	***	
Concrete shall be compacted using mechanical vibration					
Concrete shall be poured in one continuous pour					

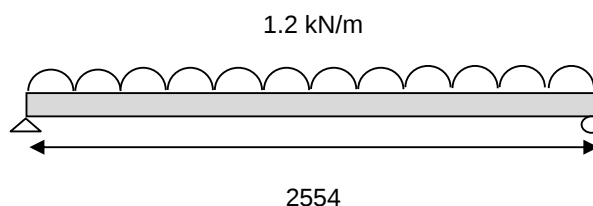
SUPPORT FRAME MEMBERS: C1 UNDER 1.2G+W

Section	Parameter	Detail / Description	Value	Units
Loads	V _{max}	Max SF in vertical support	3.38	kN
	y _c	CoA above datum (top of footing)	3.26	m
STR	M _{max} V _{max}	Moment on member Shear on member	11.0 3.38	kNm kN
Section:	6060 T5	127 x 127 x 6 SHS		***
	φM _b x	Member moment capacity	11.0	kNm
	φV _v x	Section shear capacity	92.8	kN
	I _x	Second moment of area	7.305	x10 ⁶ mm ⁴
	E	Elastic Modulus	70.0E+3	MPa
STR	η _m	M _{max} / φM _b	1.0	≤ 1 OK
	η _v	V _{max} / φV _v	0.04	≤ 1 OK
	UC	Unity check	0.75	≤ 1 OK
SRV	Δ	Deflection @ end	41.6	mm
	η _Δ	Span / Deflection ratio	78	≥ 50 OK

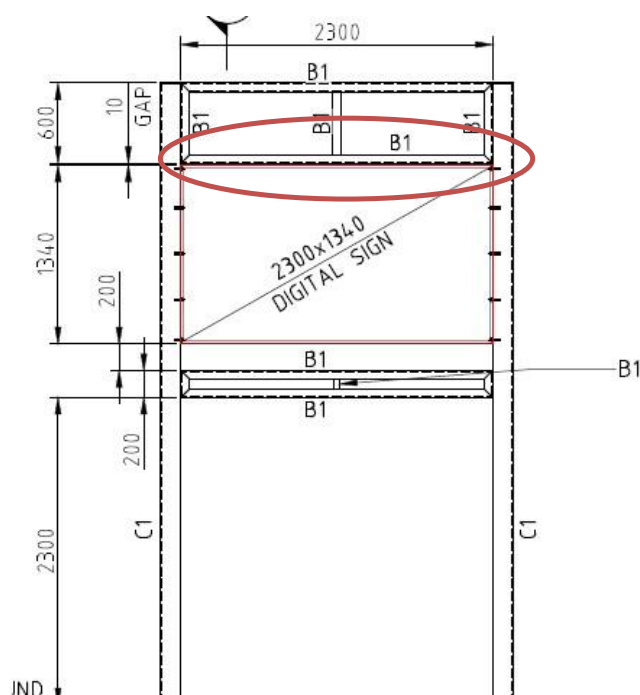


SUPPORT FRAME MEMBERS: B1 UNDER 12G+W

Section	Parameter	Detail / Description	Value	Units
Loads	P_1	Point load	0.00	kN
	w_1	Distributed load	1.21	kN/m
	L	Length of member	2.55	m



STR	M_{max}	Moment on member	0.98	kNm
	V_{max}	Shear on member	1.54	kN
Section:	6060 T5	65 x 65 x 4 SHS		***
	ϕM_{bx}	Member moment capacity	1.754	kNm
	ϕV_{vx}	Section shear capacity	30.6	kN
	I _x	Second moment of area	0.608	$\times 10^6 \text{ mm}^4$
	E	Elastic Modulus	70.0E+3	MPa
STR	η_m	$M_{max} / \phi M_b$	0.56	≤ 1 OK
	η_v	$V_{max} / \phi V_v$	0.05	≤ 1 OK
	UC	Unity check	0.43	≤ 1 OK
SRV	Δ	Deflection @ mid-span	8.5	mm
	η_Δ	Span / Deflection ratio	300	≥ 50 OK



	H Frame Free Standing Sign FS[2.6x2.3x5]	JDS001A_c	Rev 0
	WIND REGION A ONLY	21-May-24	10
GENERAL NOTES:			
General:	1. All materials, fabrication and installation shall be in accordance with the NCC and relevant SAA codes (current edition including all amendments) 2. Client is responsible for all dimensions, measurements and other site information required to complete the engineering design and details.		
Steel	1. All work and materials shall be in accordance with the following: Hot-rolled steel: AS 4100 - 2020 Cold-formed steel: AS/NZS 4600 - 2018 Stainless steel: AS/NZS 4673 - 2001 2. Sections: UB, UC, PFC & Plate: Grade 300 (AS/NZS 3679.1 - 2016) RHS & SHS: Grade C450 (AS 1163 - 2016) CHS: Grade C350 (AS 1163 - 2016) Cold-formed Duragal: CA = Equal Angle, CC = Channel, CF = Flat Stainless steel Grade 304 or Grade 316 (uno). 3. Ends of all hollow sections shall be sealed with 3 mm plate.		
Aluminium:	1. All work and materials shall be in accordance with AS/NZS 1664 - 1997. 2. Structural sections: Alloy - Temper: 6060 - T5 (uno) 3. Plate: Alloy - Temper: 5005 - H34 (uno)		
Concrete:	1. All work and materials shall be in accordance with AS 3600 - 2018. 2. Concrete shall be Grade N25 (f'c = 25 MPa @ 28 days), (uno) 3. Concrete shall be compacted using mechanical vibration. 4. Minimum cover to hold-down bolts or other fitments shall be 75 mm.(uno) 5. Concrete shall be cured for 7 days before imposing any structural loads.		
Welding	1. Welding of structural steel shall be in accordance with AS/NZS 1554.1 - 2014. 2. Welding of cold - formed steel shall be in accordance with AS/NZS 1554.1 - 2014. 3. Welding of stainless steel shall be in accordance with AS/NZS 1554.6 - 2012. 4. Welding of aluminium shall be in accordance with AS/NZS 1665 - 2004 5. Welds shall be Category - GP (uno), done by a suitably qualified welder.		
Bolts	1. Bolts shall be M16(4.6/S) galvanised (uno). 2. Stainless steel bolts shall be Grade 304 or Grade 50 (ISO)		
Screws	1. Self-Tapping (self-drilling) metal screws shall be in accordance with AS 3566 Parts 1 & 2. 2. Screw size designation shall be as follows: ST4.8 (No.10) Dia. = 4.8mm ST5.5 (No.12) Dia. = 5.5mm ST6.3 (No.14) Dia. = 6.3mm Corrosion Resistance: Class - 2 General internal use. Class - 3 General external use. Class - 4 External use in severe marine environment.		
VHB - Tapes	1. VHB - Tapes (Very High Bond - Tapes) shall be either 3M or Biolink. 2. VHB - Tapes shall be used to resist dynamic wind loads only. 3. Surfaces to be joined shall be prepared in accordance with manufacture's specifications and requirements. 4. VHB - Tapes shall be applied in accordance with manufacture's specifications and requirements.		
Sealant	1. All joints that are not welded and abutting surfaces should be sealed with a structural sealant.		

MODULE

	Pixel Pitch	3.8mm					
	LED Lamp	Gold Wire SMD LED					
	Demension	Width		Height		Total	
		320	mm	320	mm	0.1024	m²
	Resolution	84	Pixel	84	Pixel	7056	Pixel

CABINET

	Dimension without border	Width		Height		Total	
		2240	mm	1280	mm	2.8672	m²
	Dimension with border	2304	mm	1344	mm	3.0966	m²
	Resolution	588	pixel	336	pixel	197568	pixel
	Thickness	130mm					
	Net Weight	130kg					
	Material	Aluminium					

TECHNICAL SPECIFICATION

Item		Description
Model		P3
	Maximum power consumption	1922
	Average power consumption	640
	Brightness	≥5000 CD/M ²
	Colors	281 Trillion
	Viewing angle	H:140°, V:80°
	Best Viewing Distance	>3 meters
	Gray Scale	65535
	Input Power	110~240V 50 or 60Hz
	Driving Mode	1/21 constant current
	Refresh Rate	≥1920Hz
	Control Mode	Asynchronization control (offline play content)
	Lifetime	100,000 Hours plus
	Running Temperature	-20°C ~ +60°C
	Humidity	10% ~ 90%
	Signal Available	DVI,S-VIDEO, RGB, VGA and ETC.
	Running Files	Text&Picture
	IP Rate	Front:IP65, Rear:IP54