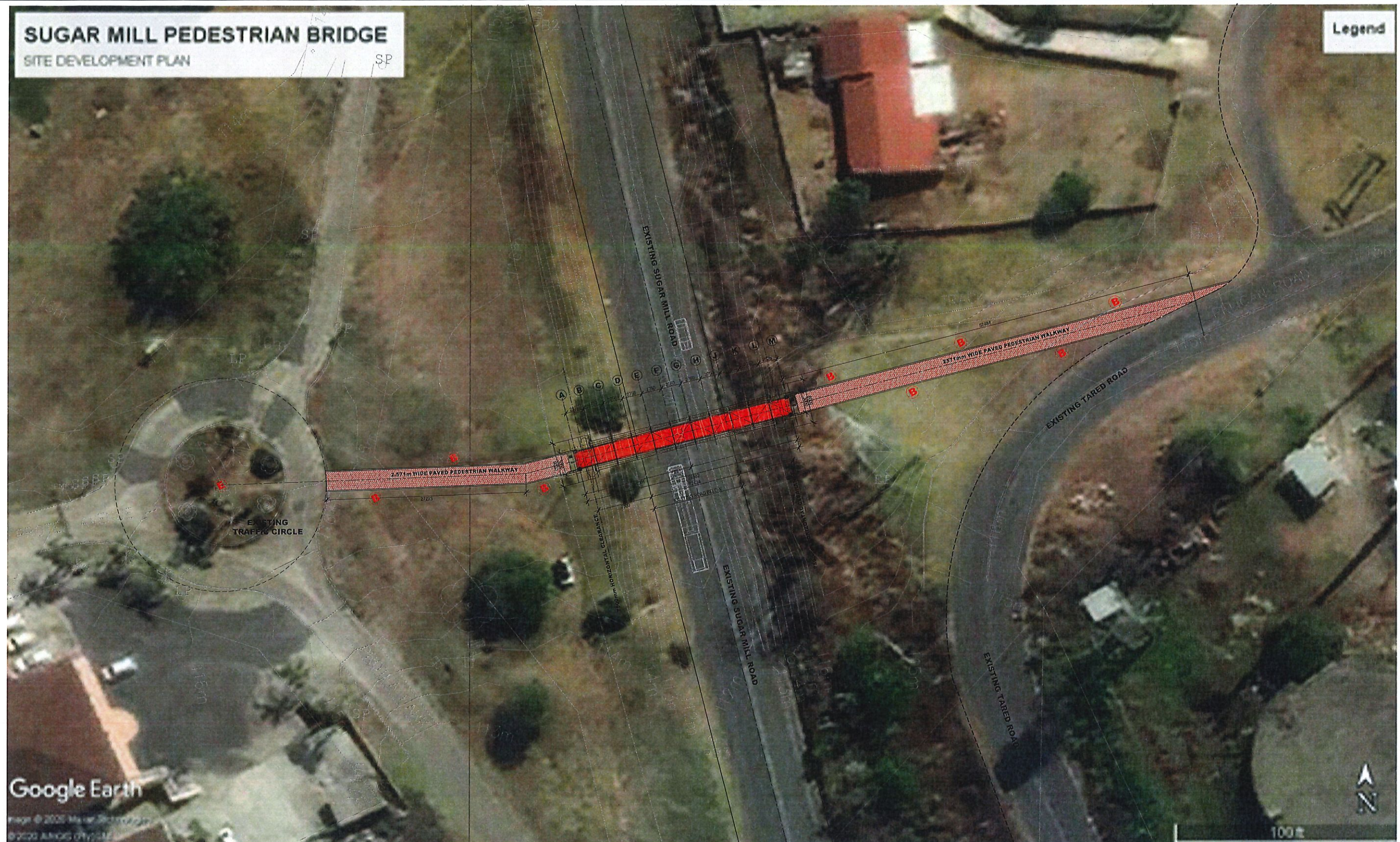




Google Earth



PROPOSED SITE PLAN

Scale 1:200

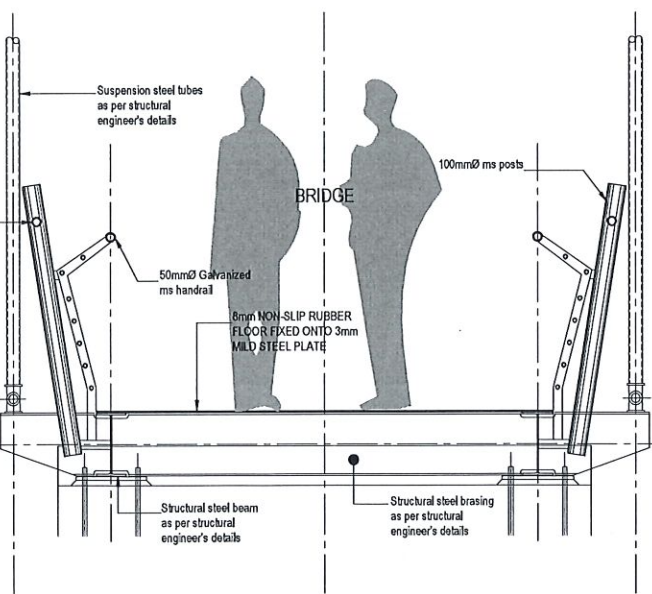
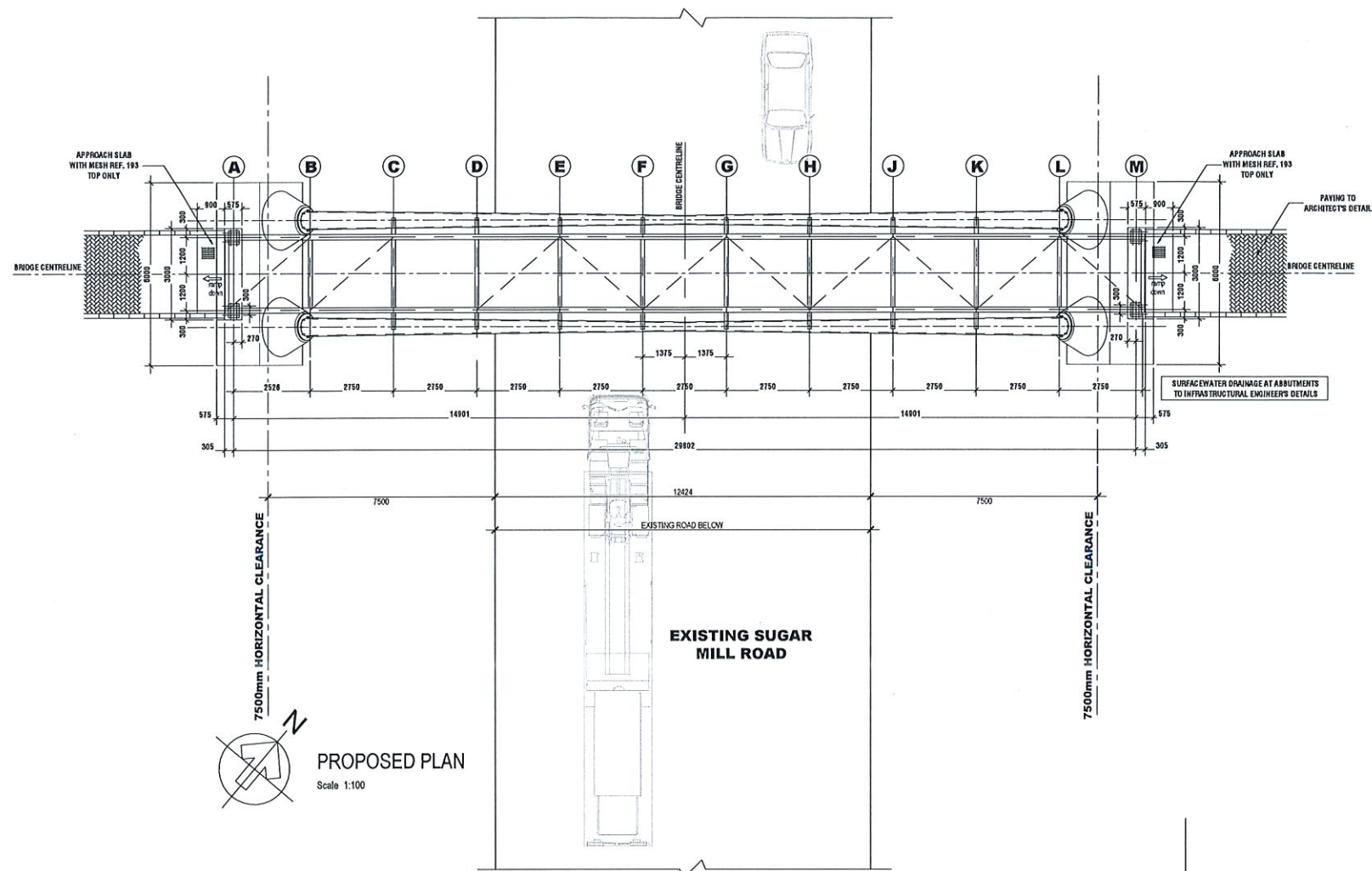
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ENGINEERS & PROJECT MANAGERS
 PHYSICAL ADDRESS:
 Office 50 South
 The Tydes
 Shelly Beach
 4265
 TEL: (039) 315 0750
 FAX: (039) 577 2602
 e-mail: office@wvna.co.za
 W. NDVALANE
 (REGISTRATION NO. 2019300455) SIGNATURE:

POSTAL ADDRESS:
 PO BOX 39241
 HARDING
 4660
 ON BEHALF OF CLIENT: NAME: _____
 SIGNATURE: _____

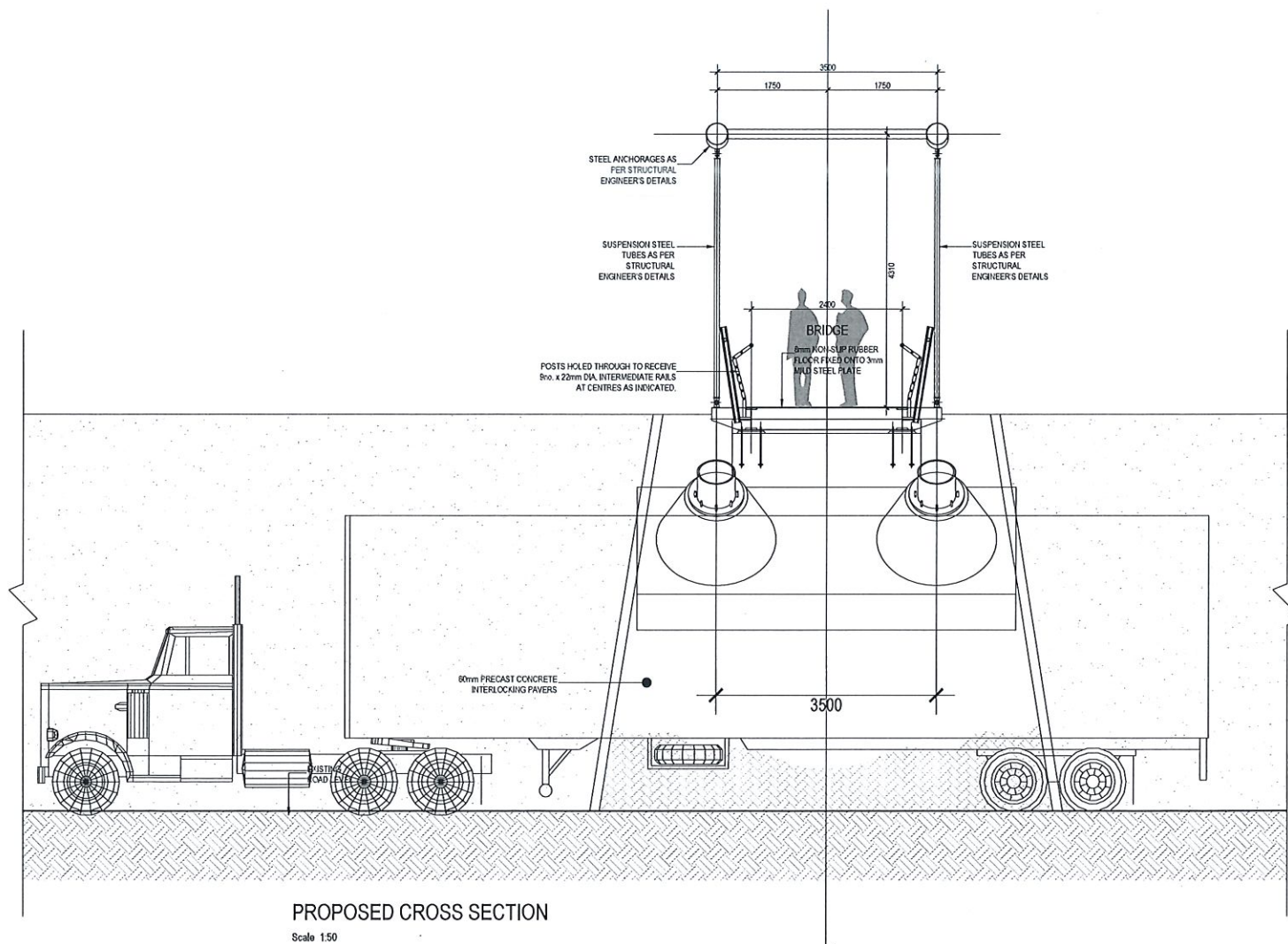
PROJECT/DRAWING TITLE
 PROPOSED SUGAR MILL ROAD
 PEDESTRIAN BRIDGE (ACROSS P494)
 SITE DEVELOPMENT PLAN

SCALE:
 1: 250
 SHEET
 1
 OF
 1
 DRAWING No.
 T-01
 REVISION
 1



PROPOSED DETAIL CROSS SECTION
Scale 1:20

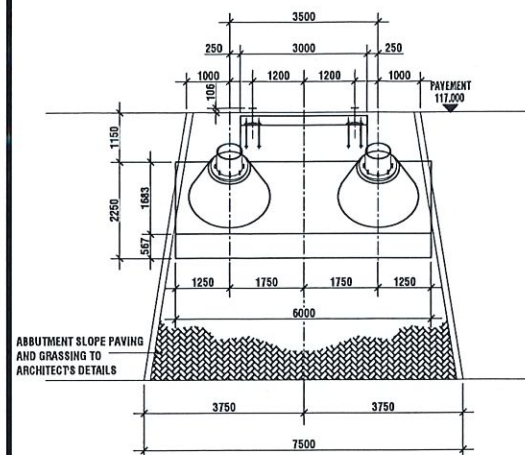
EXT LIGHTS		
SYMBOL	DESCRIPTION	QUANTITY
A	'FACADE/BILLBOARD' LIGHT MOUNTED ON CONG STUB FACING BRIDGE ELEVATION AS INDICATED	
B	1100MM HIGH BOLLARD TYPE LED LIGHT	
C	LED LIGHT MOUNTED ON STEEL ANCHORAGES	



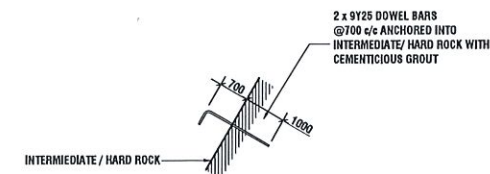
PROPOSED CROSS SECTION
Scale 1:50

				DESIGNED	E. TSHUMA	ENGINEERS & PROJECT MANAGERS			POSTAL ADDRESS: PO BOX 39241 HARDING 4660	CLIENT  RAY NKOMOVETSI Bridges for Zimbabwe	PROJECT/DRAWING TITLE PROPOSED SUGAR MILL ROAD PEDESTRIAN BRIDGE (ACROSS P494) PROPOSED PLAN AND CROSS SECTION	SCALE: 1: 250	CONTRACT No. TBA		
				CHECKED	W. NDVALANE	PHYSICAL ADDRESS: Office 50 South The Tydes Shelly Beach 4265						SHEET OF 1 1	PROJECT No. WN10/P01		
				DRAWN	E. TSHUMA	TEL: (033) 315 0750 FAX: (033) 315 2602 e-mail: office@wna.com									
				CHECKED	W. NDVALANE	V. NDVALANE (REGISTRATION NO. 201900455)		SIGNATURE _____	ON BEHALF OF CLIENT: NAME _____ SIGNATURE _____			DRAWING No.	T-02		
				PROJECT ENGINEER	W. NDVALANE	REGISTRATION NO.: 201900455								REVISION	1
				REGISTRATION NO.:	201900455										
				DESCRIPTION OF REVISION(S)	DATE	CHECKED	APPROVED								
				1	BRIDGE REVISED TO ACHIEVE HORIZONTAL 8M CLEARANCE	07/07/2021	NM	WN							
				P	ISSUED FOR APPROVAL	05/02/2021	NM	WN							

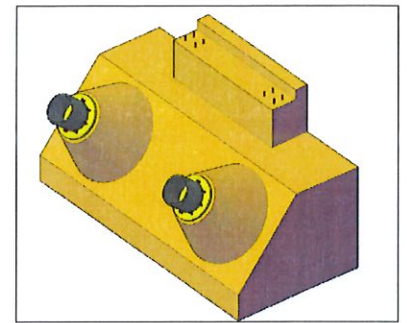
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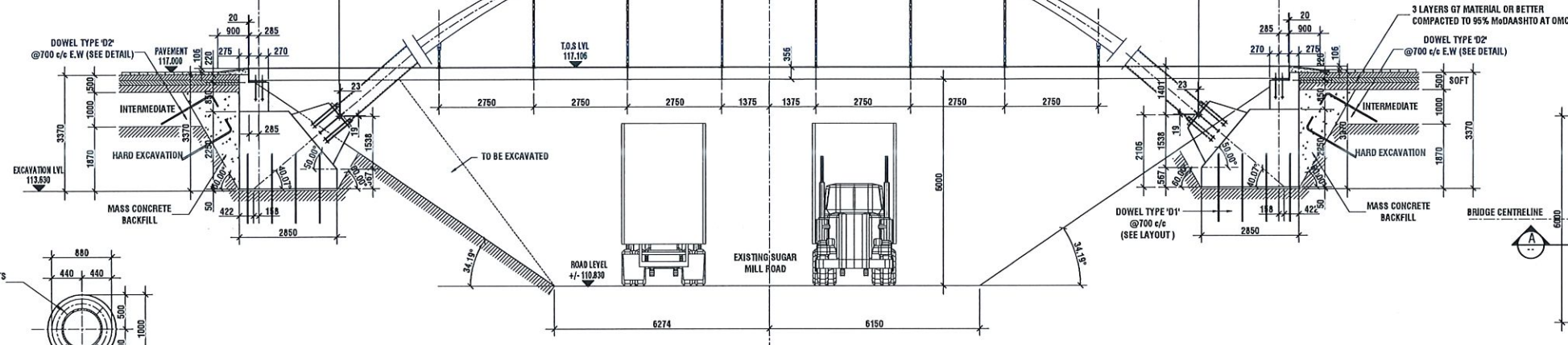
SECTION B-B
SCALE: 25



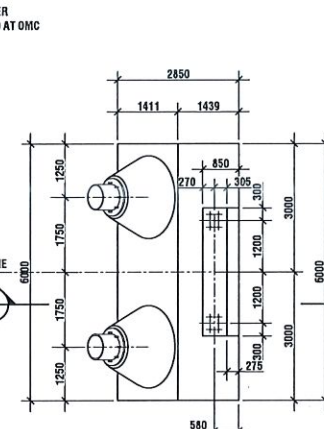
DOWEL 'D2' DETAIL
SCALE: 25



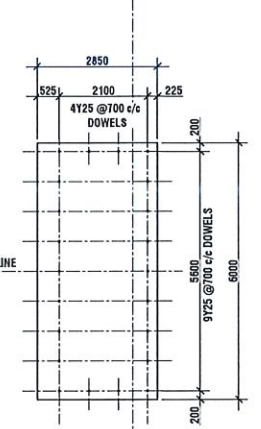
ISOMETRIC VIEW
SCALE: 25



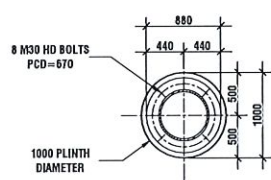
LONGITUDINAL ELEVATION
SCALE: 25



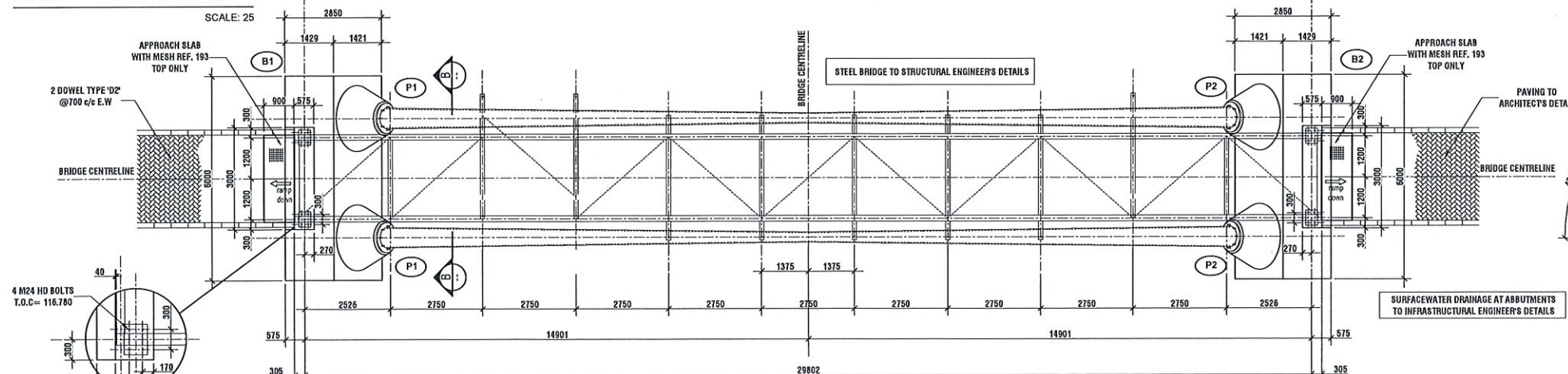
BASE DETAIL
SCALE: 100



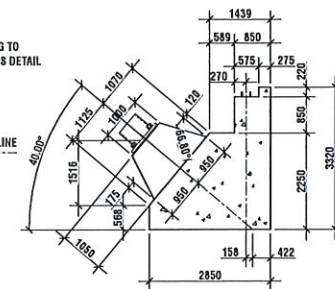
DOWEL 'D1' LAYOUT
SCALE: 25



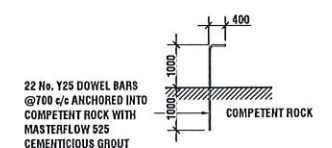
ARCH PLINTH DETAIL
SCALE: 25



FOUNDATION LAYOUT
SCALE: 25



SECTION A-A
SCALE: 25



DOWEL 'D1' DETAIL
SCALE: 25

- NOTES**
1. CONCRETE GRADE = 30MPa/19 STONE
 2. GROUND BEARING CAPACITY = 500kPa
 3. WOOD FLOAT FINISH

DESIGNED: W. NOLANGISA				ENGINEERS & PROJECT MANAGERS				CLIENT				PROJECT/DRAWING TITLE			
CHECKED: W. NOLANGISA				PHYSICAL ADDRESS:				RAY NKONYENI LOCAL MUNICIPALITY				PROPOSED SUGAR MILL ROAD			
DRAWN: W. NOLANGISA				Office 50 south				ON BEHALF OF CLIENT:				PEDESTRIAN BRIDGE (ACROSS P494)			
CHECKED: W. NOLANGISA				The Tydes				NAME:				CONCRETE DETAILS			
PROJECT ENGINEER: W. NOLANGISA				Shelly Beach				SIGNATURE:				DRAWING No. T-04			
REGISTRATION NO.: 201870301				4260				RAY NKONYENI				REVISION P			
TEL: (031) 315 0750				FAX: (031) 577 2002				P.O. BOX 5				CONTRACT No. TBA			
e-mail: office@wvna.com				W. NOLANGISA				Port Shepstone				PROJECT No. WN10/P01			
07/09/2021				DATE				KwaZulu Natal							
NM				CHECKED				4240							
VN				APPROVED				RAY NKONYENI							
								RAY NKONYENI LOCAL MUNICIPALITY							
								ON BEHALF OF CLIENT:							
								SIGNATURE:							

Member Description	No. Off	Reinforcement					Bending of shape codes to SANS 282-2004					
		No. in each Member	Type & Size	Bar Mark	Total No. Off	Length mm	Shape Code	A	B	C	D	E/R
BASE B1 & B2 3320 HIGH x 2850 WIDE	2	22	Y20	01	44	2000	20	2000				
	2	30	Y20	02	60	3750	35	2750				
	2	14	Y20	03	28	6900	35	5860				
	2	30	Y20	04	60	3250	20	3250				
	2	15	Y20	05	30	6500	35	5900				
	2	30	Y20	06	60	3450	52	300	750	2100		
	2	4	Y16	07	8	6500	35	5900				
	2	14	Y20	08	28	3850	41	350	2800		2130	
	2	7	Y20	09	14	6500	35	5900				
	2	17	Y20	10	34	6450	35	5860				
	2	30	Y20	11	60	3200	49	500	500		350	350
	2	10	Y16	12	20	6500	35	5900				
	2	2	Y12	13	4	6500	35	5900				
	2	30	Y20	14	60	6500	35	5900				
	2	30	Y12	15	60	1000	38	625	175			
	2	45	Y12	16	90	1150	35	750				
	2	16	Y20	17	32	2700	35	2100				
	2	2	Y20	18a	4	2200	37	300				
	2	2	Y20	18b	4	1950	37	300				
	2	2	Y20	18c	4	1700	37	300				
	2	2	Y20	18d	4	1450	37	300				
	2	2	Y20	18e	4	1200	37	300				
	2	2	Y20	18f	4	950	37	300				
	2	6	Y16	19	12	1200	37	600				
	2	6	Y20	20	12	3300	35	2700				
	2	2	Y20	21a	4	2850	37	300				
	2	2	Y20	21b	4	2700	37	300				
	2	2	Y20	21b	4	2550	37	300				
	2	2	Y20	21c	4	2400	37	300				
	2	2	Y20	21d	4	2250	37	300				
	2	2	Y20	21e	4	2100	37	300				
	2	2	Y20	21f	4	1950	37	300				
	2	2	Y20	21g	4	1800	37	300				
	2	2	Y20	21h	4	1650	37	300				
	2	16	Y20	22	32	1000	37	300				
	2	6	Y12	23	12	1700	37	300				
	2	10	Y12	24	20	1300	35	700				
PLINTH P1 1000#-1900#x1050 HIGH	4	12	Y20	25	48	2600	98A	1850	350			
	4	12	Y20	26	48	2400	99B	1600	450			
	4	2	Y16	27a	8	3700	65					1785
	4	2	Y16	27b	8	3500	65					1615
	4	2	Y16	27c	8	3300	65					1445
	4	2	Y16	27d	8	3100	65					1275
	4	2	Y16	27e	8	2900	65					1105
	4	2	Y12	27f	8	2700	65					935
	4	2	Y12	27g	8	2500	65					



P	ISSUED FOR APPROVAL	07/09/2021	WN
△	DESCRIPTION OF REVISION(S)	DATE	APPROVED

DESIGNED	W. NDLANGISA
CHECKED	W. NDWALANE
DRAWN	W. NDLANGISA
CHECKED	W. NDWALANE
PROJECT ENGINEER	W. NDWALANE
REGISTRATION NO.:	201670301

ENGINEERS & PROJECT MANAGERS
PHYSICAL ADDRESS:
Office 50 south
The Tydes
Shelby Beach
4260
TEL: (039) 315 0750
FAX: (066) 577 2602
e-mail: office@wanace.com



W. NDWALANE
(REGISTRATION NO.: 2019300455) SIGNATURE

POSTAL ADDRESS:
PO BOX 631
Uvongo
4270

CLIENT



RAY NKONYENI LOCAL MUNICIPALITY

ON BEHALF OF CLIENT: NAME _____

SIGNATURE: _____

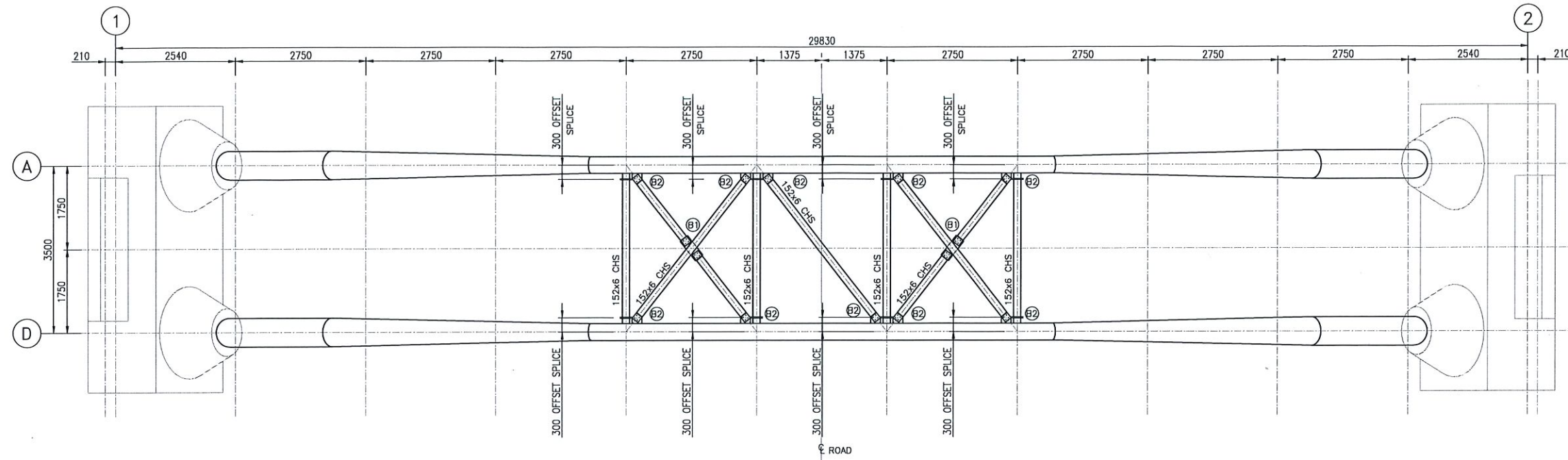
POSTAL ADDRESS:
P.O BOX 5
Port Shepstone
KwaZulu Natal
3950

PROJECT/DRAWING TITLE

PROPOSED SUGAR MILL ROAD
PEDESTRIAN BRIDGE (ACROSS P494)

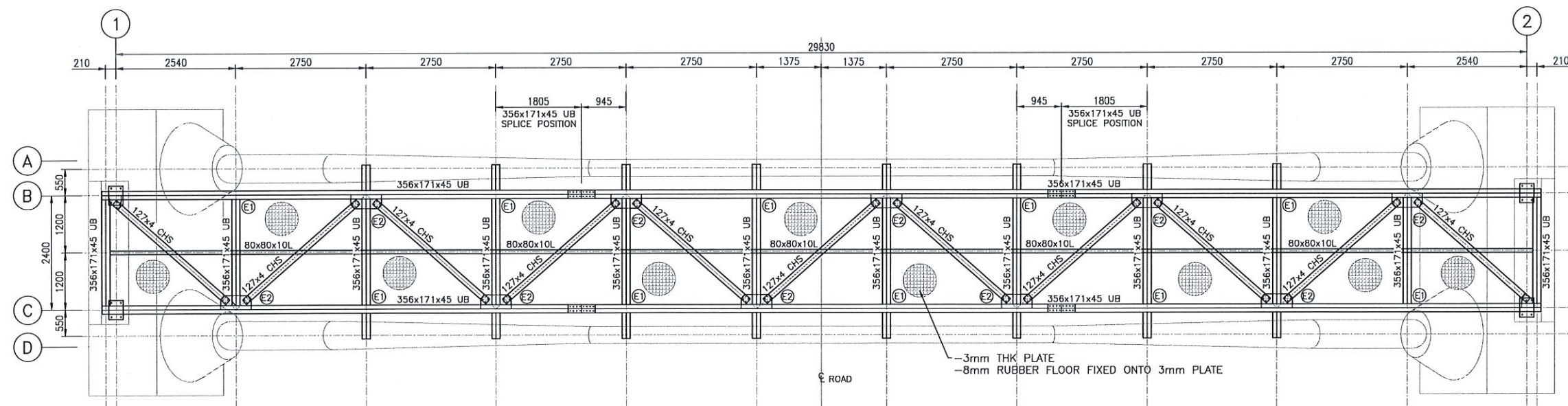
BRIDGE REBAR DETAILS AND BENDING SCHEDULES

SCALE: AS SHOWN	CONTRACT No. TBA
SHEET OF 1 1	PROJECT No. WN10/P01
DRAWING No.	T-05
REVISION	P



TOP PLAN OF PEDESTRIAN BRIDGE

SCALE 1:50

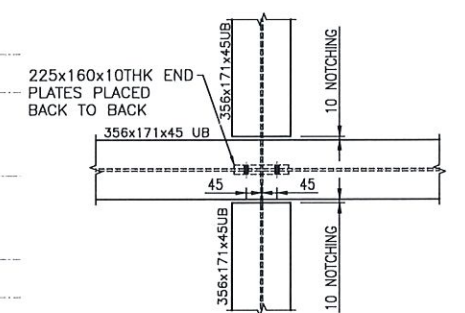


BOTTOM PLAN OF PEDESTRIAN BRIDGE

SCALE 1:50

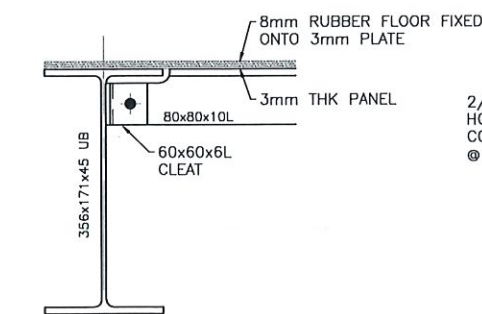
STRUCTURAL STEEL NOTES

1. ALL STEEL WORK TO COMPLY WITH SANS 2001.CS1& SANS 1921-3
2. ALL WELDS 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE.
3. ALL BUTT WELDS FULL PENETRATION WELDS UNLESS NOTED OTHERWISE.
4. BOLTS AND NUTS SHALL BE TO SABS 094, 1355 AND 136 U.N.O MINIMUM BOLT SIZE TO BE 16mm.
5. ALL BOLTS TO BE GRADE 8.8 UNLESS NOTED OTHERWISE.
6. SLOTTING OF HOLES, CUTTING WITH OXYACETYLENE EQUIPMENT WILL NOT BE ALLOWED.
7. SUBSTITUTION OF SECTIONS WILL ONLY BE ALLOWED WITH ENGINEER'S APPROVAL.
8. STEEL FABRICATION TO CHECK ALL SETTING OUT DIMENSIONS AND LEVELS PRIOR TO FABRICATION.
9. SHOP DRAWINGS MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
10. SITE MEASUREMENTS MUST BE TAKEN BEFORE MANUFACTURE OF MEMBERS.
11. ANY DISCREPANCIES OR VARIATIONS FROM THE ENGINEER OR ARCHITECT'S MUST BE REPORTED.
12. DIMENSIONAL ACCURACY OF WORKSHOP DRAWING, DESIGNS OF CONNECTIONS, SPLICES ETC PREVISION OF TEMPORARY BRACING AND ANY TEMPORARY WORKS NECESSARY TO COMPLETE THE PROJECT, WILL BE THE STRUCTURAL STEELWORK SUPPLIERS RESPONSIBILITY. BUT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION GUSSETS TO BE 10mm THICKNESS U.N.O.
13. SCALING-OFF DIMENSIONS IS NOT PERMITTED, FIGURED DIMENSIONS ONLY TO BE USED.
14. ALL STEEL WORK IS TO BE ACID CLEANED AND HOT DIPPED GALVANIZED. STEELWORK TO BE PROTECTED FROM DAMAGE DURING STORAGE, TRANSPORTATION AND ERECTION. USE OF AN APPROVED GALVANIC PAINT FOR TOUCHING UP ON SITE MAY BE PERMITTED.
15. ALL PURLINS AND CLADDING RAILS TO BE HOT DIPPED GALVANIZED.
16. PROVIDE WELDED 500mm LONG WALL TIES TO COLUMNS AT BRICK FORCE POSITIONS.
17. ALL LAYOUTS TO BE READ IN CONJUNCTION WITH ANY RELEVANT ARCHITECTURAL, CIVIL OR OTHER DRAWINGS.
18. ANY ERRORS OR DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY FOR CORRECTION BEFORE WORK IS UNDERTAKEN.
19. ALL GUSSET PLATES TO BE 6mm IN THICKNESS UNLESS OTHERWISE SPECIFIED.



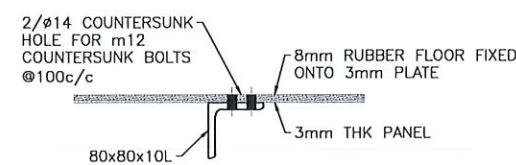
TYPICAL END PLATE CONNECTION (E1)

SCALE 1:10



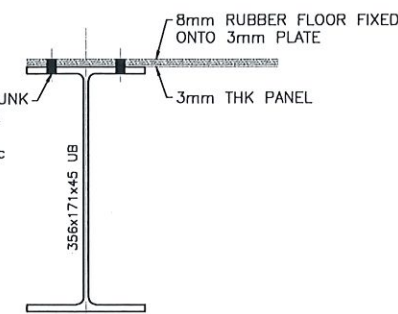
ANGLE CONNECTION DETAIL

SCALE 1:5



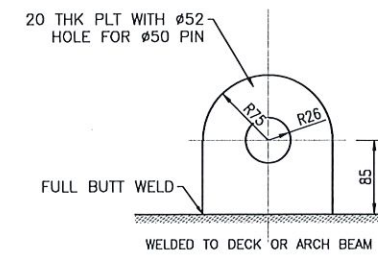
ANGLE SECTION DETAIL

SCALE 1:5



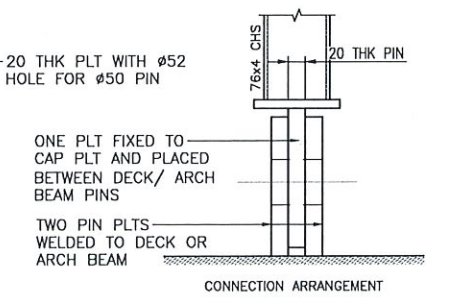
FLOOR CONNECTION DETAIL

SCALE 1:5



TYPICAL PLATE PIN CONNECTION DETAILS

SCALE 1:5



CONNECTION ARRANGEMENT

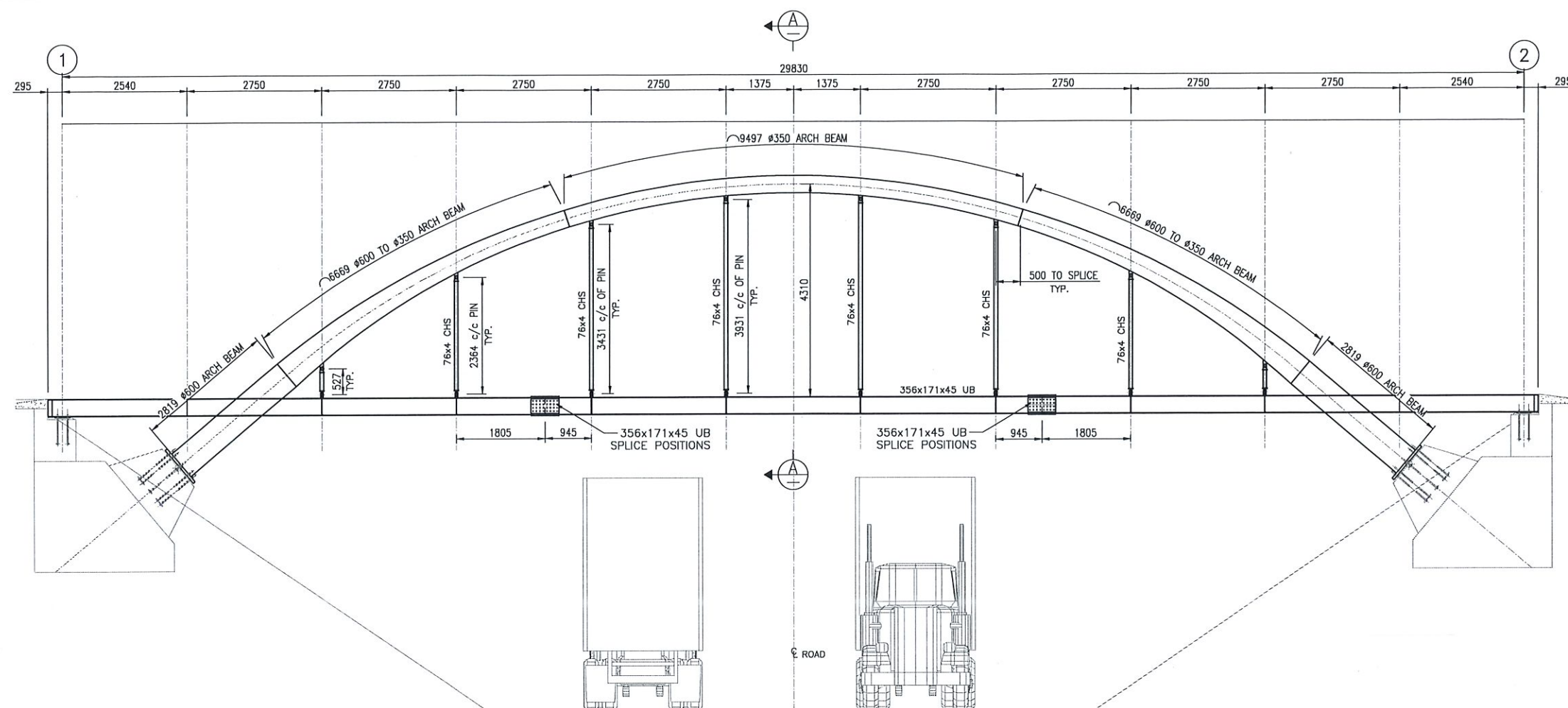
NOTE:
6mm C.F.W. ALL ROUND
WELD FOR BASE PLATES,
CLEATS AND GUSSETS BY
SHOP DETAILER.

DESIGNED: W. NOLANGISA CHECKED: W. NOLANGISA DRAWN: S. QUZA CHECKED: W. NOLANGISA PROJECT ENGINEER: W. NOLANGISA REGISTRATION NO.: 201670301				ENGINEERS & PROJECT MANAGERS PHYSICAL ADDRESS: Office 50 south The Tydes Shea's Beach 4250 TEL: (039) 315 0750 FAX: (039) 517 2822 e-mail: office@wvase.com POSTAL ADDRESS: PO BOX 831 Uvongo 4270				CIENT RAY NIKONVENI RAY NIKONVENI LOCAL MUNICIPALITY ON BEHALF OF CLIENT: NAME: SIGNATURE: POSTAL ADDRESS: P.O. BOX 5 Port Shepstone KwaZulu Natal 4240				PROJECT/DRAWING TITLE PROPOSED SUGAR MILL ROAD PEDESTRIAN BRIDGE (ACROSS P494) STRUCTURAL STEEL DETAILS : SHEET 1 OF 3				SCALE: AS SHOWN SHEET OF 1 3 DRAWING No. T06 REVISION P				CONTRACT No. TBA PROJECT No. VN10/P01			
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P	ISSUED FOR APPROVAL	07/09/2021	WN	WN
Δ	DESCRIPTION OF REVISION(S)	DATE	CHECKED	APPROVED

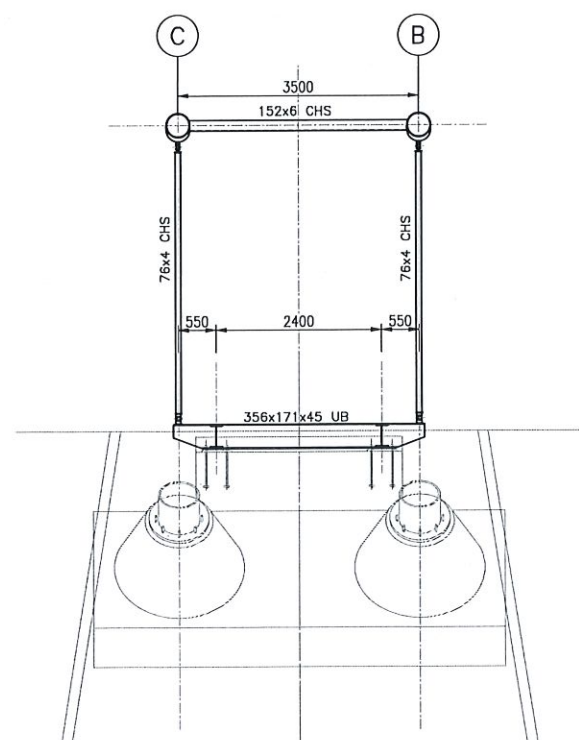
STRUCTURAL STEEL NOTES

- ALL STEEL WORK TO COMPLY WITH SANS 2001.CS1& SANS 1921-3
- ALL WELDS 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE.
- ALL BUTT WELDS FULL PENETRATION WELDS UNLESS NOTED OTHERWISE.
- BOLTS AND NUTS SHALL BE TO SABS 094, 1355 AND 136 U.N.O MINIMUM BOLT SIZE TO BE 16mm.
- ALL BOLTS TO BE GRADE 8.8 UNLESS NOTED OTHERWISE.
- SLOTING OF HOLES, CUTTING WITH OXYACETYLENE EQUIPMENT WILL NOT BE ALLOWED.
- SUBSTITUTION OF SECTIONS WILL ONLY BE ALLOWED WITH ENGINEER'S APPROVAL.
- STEEL FABRICATION TO CHECK ALL SETTING OUT DIMENSIONS AND LEVELS PRIOR TO FABRICATION.
- SHOP DRAWINGS MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
- SITE MEASUREMENTS MUST BE TAKEN BEFORE MANUFACTURE OF MEMBERS.
- ANY DISCREPANCIES OR VARIATIONS FROM THE ENGINEER OR ARCHITECT'S MUST BE REPORTED.
- DIMENSIONAL ACCURACY OF WORKSHOP DRAWING, DESIGNS OF CONNECTIONS, SPLICES ETC PREVISION OF TEMPORARY BRACING AND ANY TEMPORARY WORKS NECESSARY TO COMPLETE THE PROJECT, WILL BE THE STRUCTURAL STEELWORK SUPPLIERS RESPONSIBILITY, BUT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION GUSSETS TO BE 10mm THICKNESS U.N.O.
- SCALING-OFF DIMENSIONS IS NOT PERMITTED, FIGURED DIMENSIONS ONLY TO BE USED.
- ALL STEEL WORK IS TO BE ACID CLEANED AND HOT DIPPED GALVANIZED. STEELWORK TO BE PROTECTED FROM DAMAGE DURING STORAGE, TRANSPORTATION AND ERECTION. USE OF AN APPROVED GALVANIC PAINT FOR TOUCHING UP ON SITE MAY BE PERMITTED.
- ALL PURLINS AND CLADDING RAILS TO BE HOT DIPPED GALVANIZED.
- PROVIDE WELDED 500mm LONG WALL TIES TO COLUMNS AT BRICK FORCE POSITIONS.
- ALL LAYOUTS TO BE READ IN CONJUNCTION WITH ANY RELEVANT ARCHITECTURAL, CIVIL OR OTHER DRAWINGS.
- ANY ERRORS OR DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY FOR CORRECTION BEFORE WORK IS UNDERTAKEN.
- ALL GUSSET PLATES TO BE 6mm IN THICKNESS UNLESS OTHERWISE SPECIFIED.



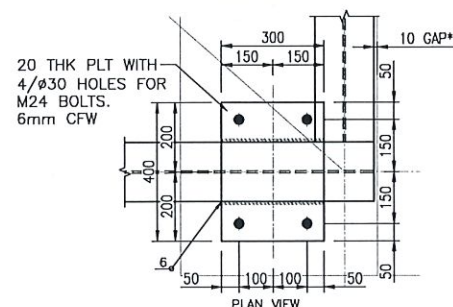
ELEVATION OF ARCH BRIDGE

SCALE 1:50



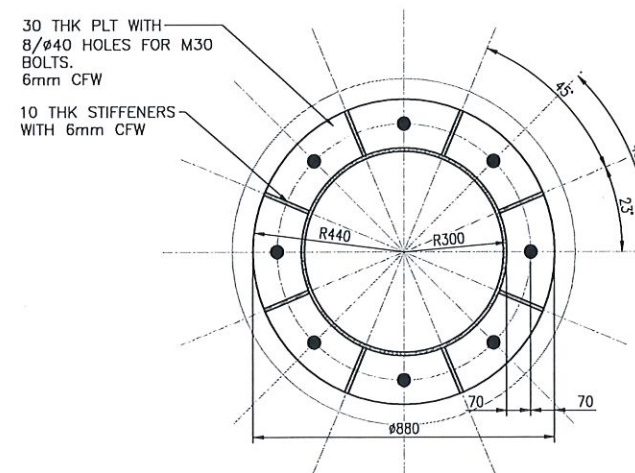
SECTION A-A

SCALE 1:50



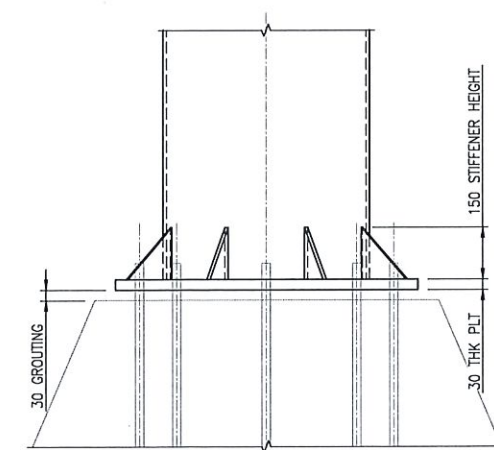
TYPICAL BASE PLATE DETAIL FOR DECK

SCALE 1:10



TYPICAL BASE PLATE DETAIL FOR ARCH BRIDGE

SCALE 1:10

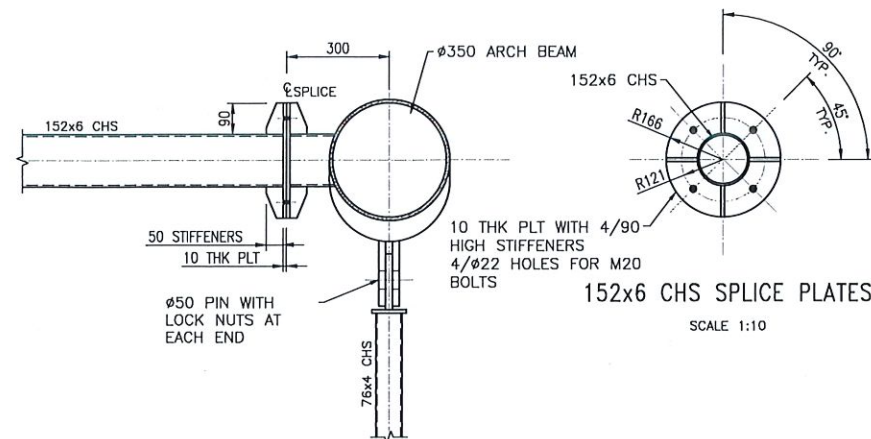


TYPICAL BASE PLATE DETAIL FOR ARCH BRIDGE

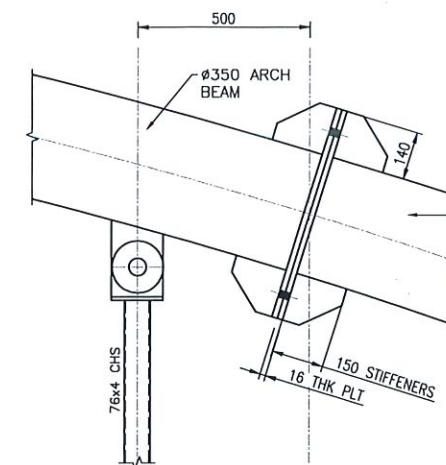
SCALE 1:10

NOTE:
6mm C.F.W. ALL ROUND
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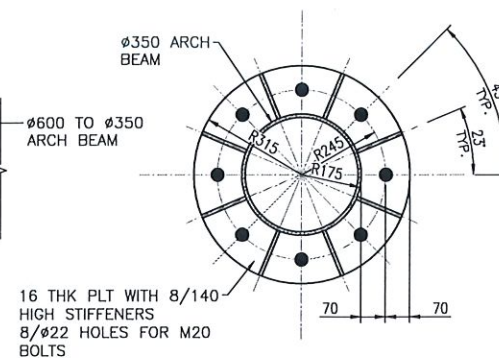
ISSUED FOR APPROVAL 07/09/2021 VN VN DATE CHECKED APPROVED	DESIGNED W. NDALANGISA CHECKED W. NDALANGISA DRAWN S. QUZA CHECKED W. NDALANGISA PROJECT ENGINEER W. NDALANGISA REGISTRATION NO.: 201870301	ENGINEERS & PROJECT MANAGERS PHYSICAL ADDRESS: Office 50 south The Tydes Shelly Beach 4260 TEL: (033) 315 0150 FAX: (033) 317 2000 e-mail: office@amace.com	POSTAL ADDRESS: PO BOX 831 Uroongo 4270	CLIENT RAY NKONYENI LOCAL MUNICIPALITY ON BEHALF OF CLIENT: NAME: SIGNATURE:	POSTAL ADDRESS: P.O BOX 5 Port Shepstone KwaZulu Natal 4240	PROJECT/DRAWING TITLE PROPOSED SUGAR MILL ROAD PEDESTRIAN BRIDGE (ACROSS P494) STRUCTURAL STEEL DETAILS : SHEET 2 OF 3
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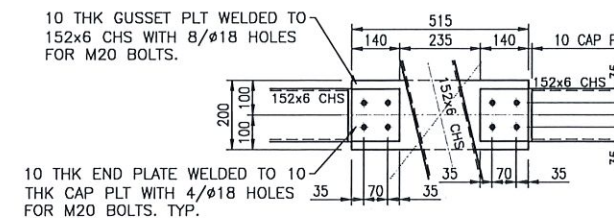
TYPICAL CONNECTION
ARCH BEAM
SCALE 1:10



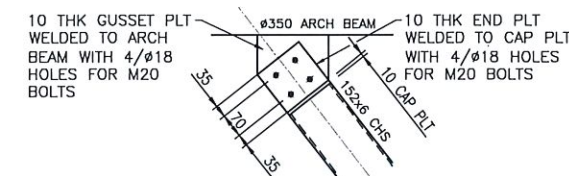
350mm SPLICE PLATE CONNECTION DETAIL
SCALE 1:10



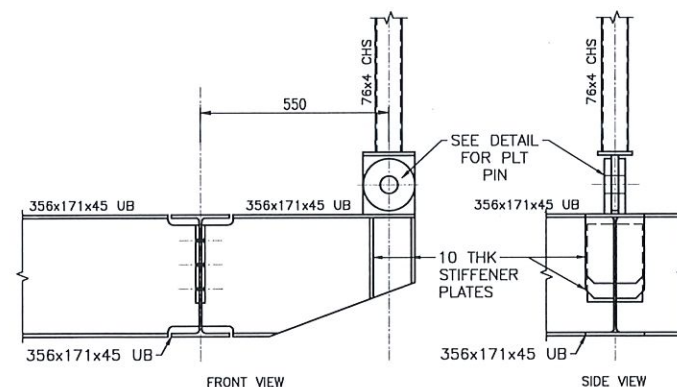
350mm ARCH BEAM SPLICE PLATES
SCALE 1:10



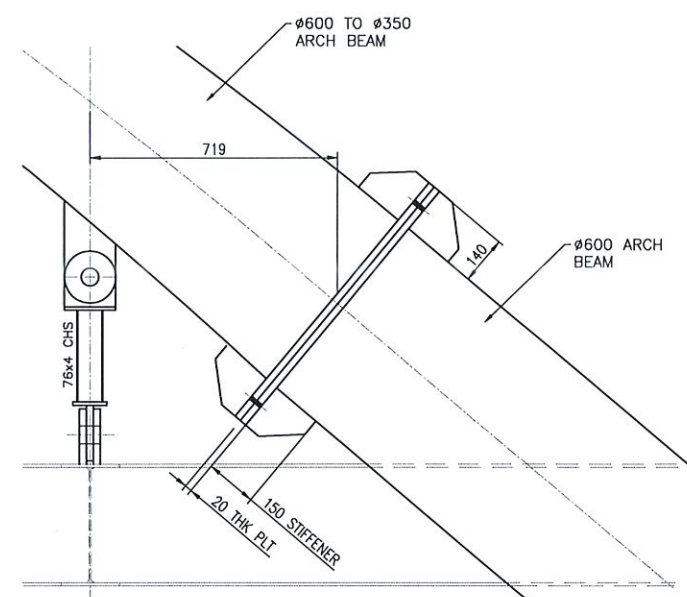
ARCH BRACING DETAIL (B1)
SCALE 1:10



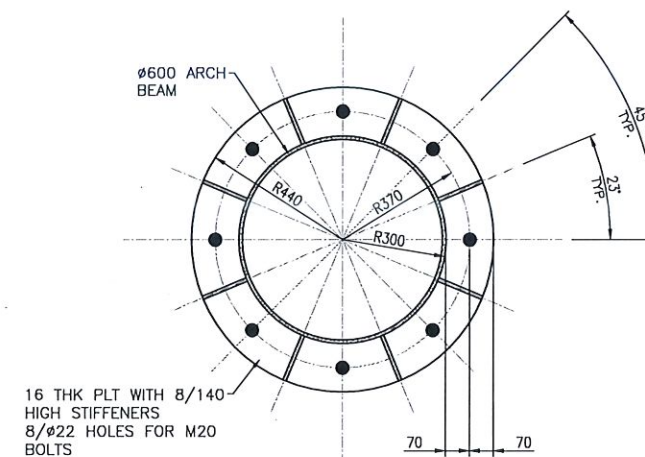
ARCH BRACING DETAIL (B2)
SCALE 1:10



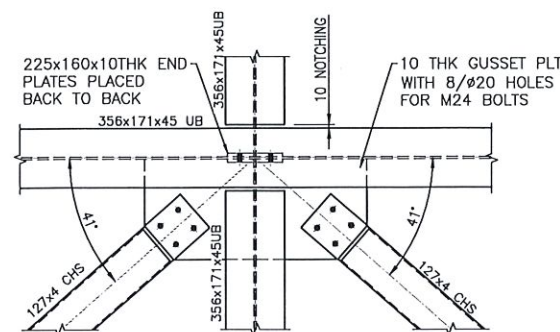
TYPICAL CONNECTION
DETAIL OF DECK
SCALE 1:10



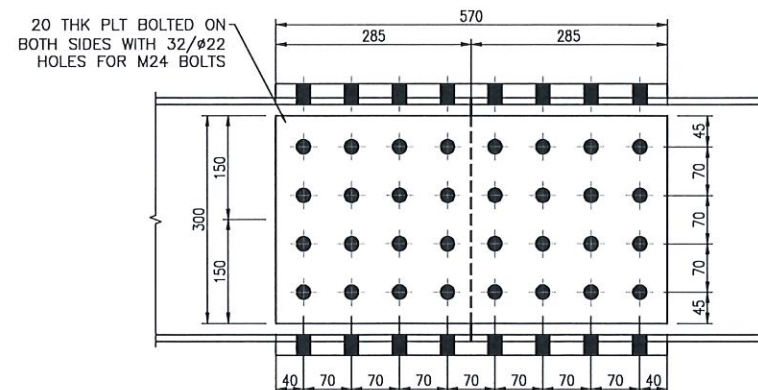
600mm SPLICE PLATE CONNECTION DETAIL
SCALE 1:10



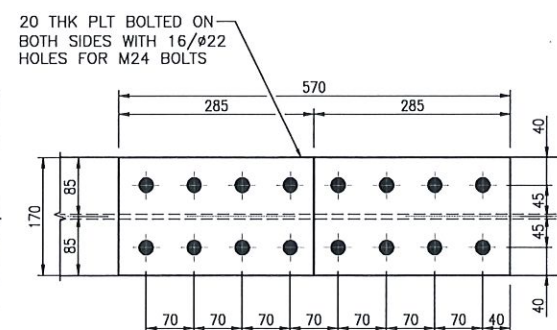
350mm ARCH BEAM SPLICE PLATES
SCALE 1:10



TYPICAL END PLATE
CONNECTION (E2)
SCALE 1:10



SIDE VIEW OF 356x171x45 UB
SPLICE CONNECTION DETAIL
SCALE 1:5



TOP & BOTTOM VIEW OF 356x171x45
UB SPLICE CONNECTION DETAIL
SCALE 1:5

NOTE:
6mm C.F.W. ALL ROUND
WELD FOR BASE PLATES,
CLEATS AND GUSSETS BY
SHOP DETAILER.

ISSUED FOR APPROVAL 07/09/2021 DATE CHECKED APPROVED	DESIGNED W. NOLANGISA CHECKED W. NOLANGISA DRAWN S. GUZA CHECKED W. NOLANGISA PROJECT ENGINEER W. NOLANGISA REGISTRATION NO. 201670301	ENGINEERS & PROJECT MANAGERS PHYSICAL ADDRESS: Office 50 south The Tydes Shelly Beach 4260 TEL: (033) 315 0150 FAX: (033) 577 2602 e-mail: office@anace.com W. NOLANGISA (REGISTRATION NO. 2019300405) SIGNATURE:	POSTAL ADDRESS: PO BOX 831 Umgungu 4270	CLIENT RAY NIKONYENI RAY NIKONYENI LOCAL MUNICIPALITY ON BEHALF OF CLIENT: NAME SIGNATURE:	POSTAL ADDRESS: P.O. BOX 5 Port Shepstone KwaZulu Natal 4240 PROJECT/DRAWING TITLE PROPOSED SUGAR MILL ROAD PEDESTRIAN BRIDGE (ACROSS P494) STRUCTURAL STEEL DETAILS : SHEET 3 OF 3	SCALE: AS SHOWN SHEET OF 3 3 DRAWING No. TOB REVISION P
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