



MAQUASSI HILLS LOCAL MUNICIPALITY

UPGRADING OF GRAVEL ROADS TO BLOCK PAVING IN TSWELELANG

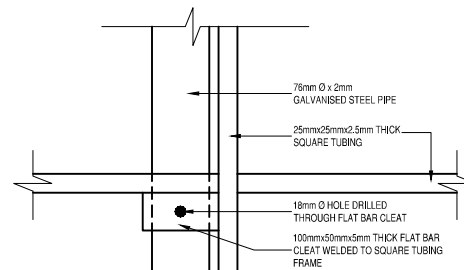
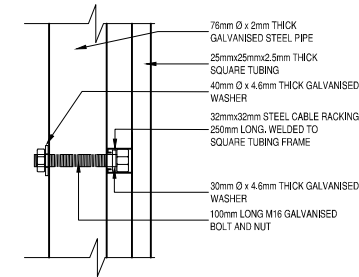
TENDER DRAWINGS VOLUME 2

CONTRACT NUMBER: MHLM/MIG/01/2025/2026

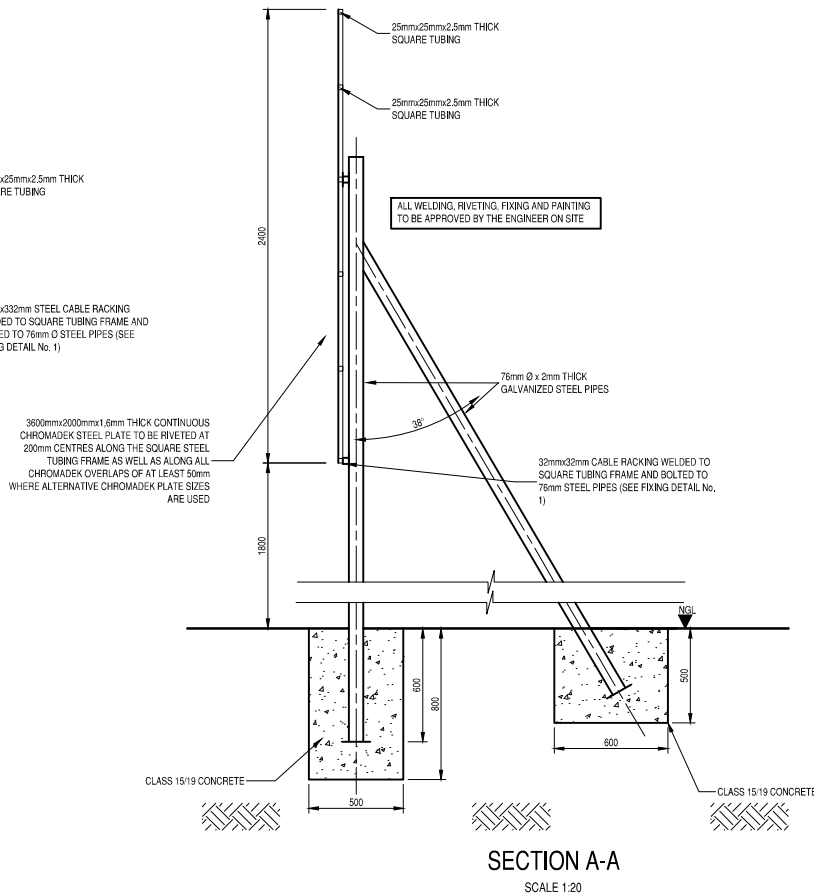
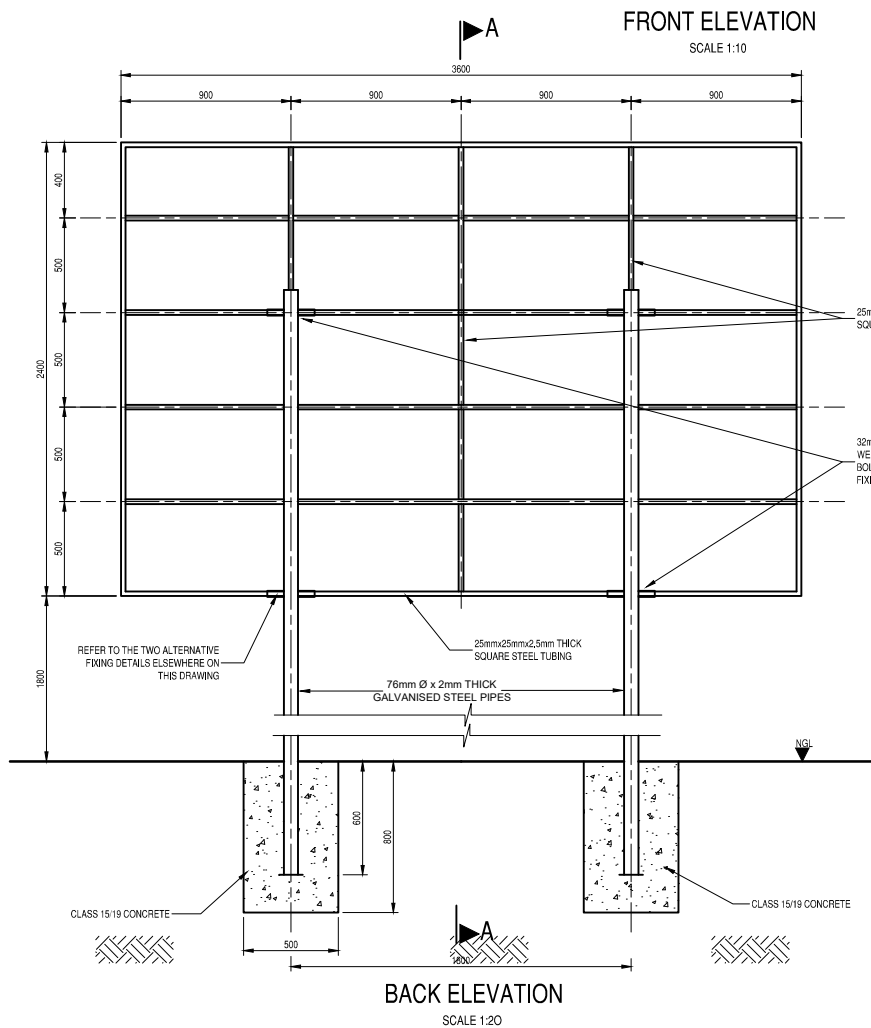
JULY 2025



		MAQUASSI HILLS LOCAL MUNICIPALITY	
PROJECT NAME: UPGRADING OF GRAVEL ROADS TO BLOCK PAVING IN TSWELELANG			
CONTRACT NUMBER: XXXXXXXXXXXXXXX		PROJECT AMOUNT: -	
	FUNDING AGENT		
	XXXXXXXXXXXXXXXXXXXX		
	CONSULTING ENGINEERS		
	TSELA TSWEU CONSULTING ENGINEERS		
	CONTRACTOR		
	CONTRACTOR NAME		



FIXING DETAIL No. 2
SCALE 1:5
ALTERNATIVE FIXING DETAILS



REVISIONS				
No.	DATE	BY	DESCRIPTION	

- NOTES
- Description in *Italics* must be adjusted to suit project details.
 - Type face to be used shall be Helvetica Medium Colour of lettering *AS INDICATED*.
 - LETTERS TO BE CAPITALISED.
 - Background of board to be *WHITE*. ALL borders & lines to be *MIDDLE BLUE*. Colour for logos to be *AS PER RESPECTIVE*.
 - All paint used should match Ref. 290 Acrylic Road Sign Paint.
 - All lettering to be painted on. Stick-on labels will *NOT* be permitted.

REFERENCE DRAWINGS	
PLAN No.	DESCRIPTION

APPROVED: _____

ENGINEER: _____ DATE: _____

APPROVED: _____

CLIENT: _____ DATE: _____

PRINT ISSUED ON _____



Tsela Tsweu
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329 Stateway Chambers, Stateway, Welkom,
PO Box 2600, Welkom, 9460, South Africa



CLIENT
**MAQUASSI HILLS
LOCAL MUNICIPALITY**

PROJECT

**UPGRADING OF GRAVEL ROADS
TO BLOCK PAVING
IN TSWELELANG**

IMPLEMENTING AGENT:

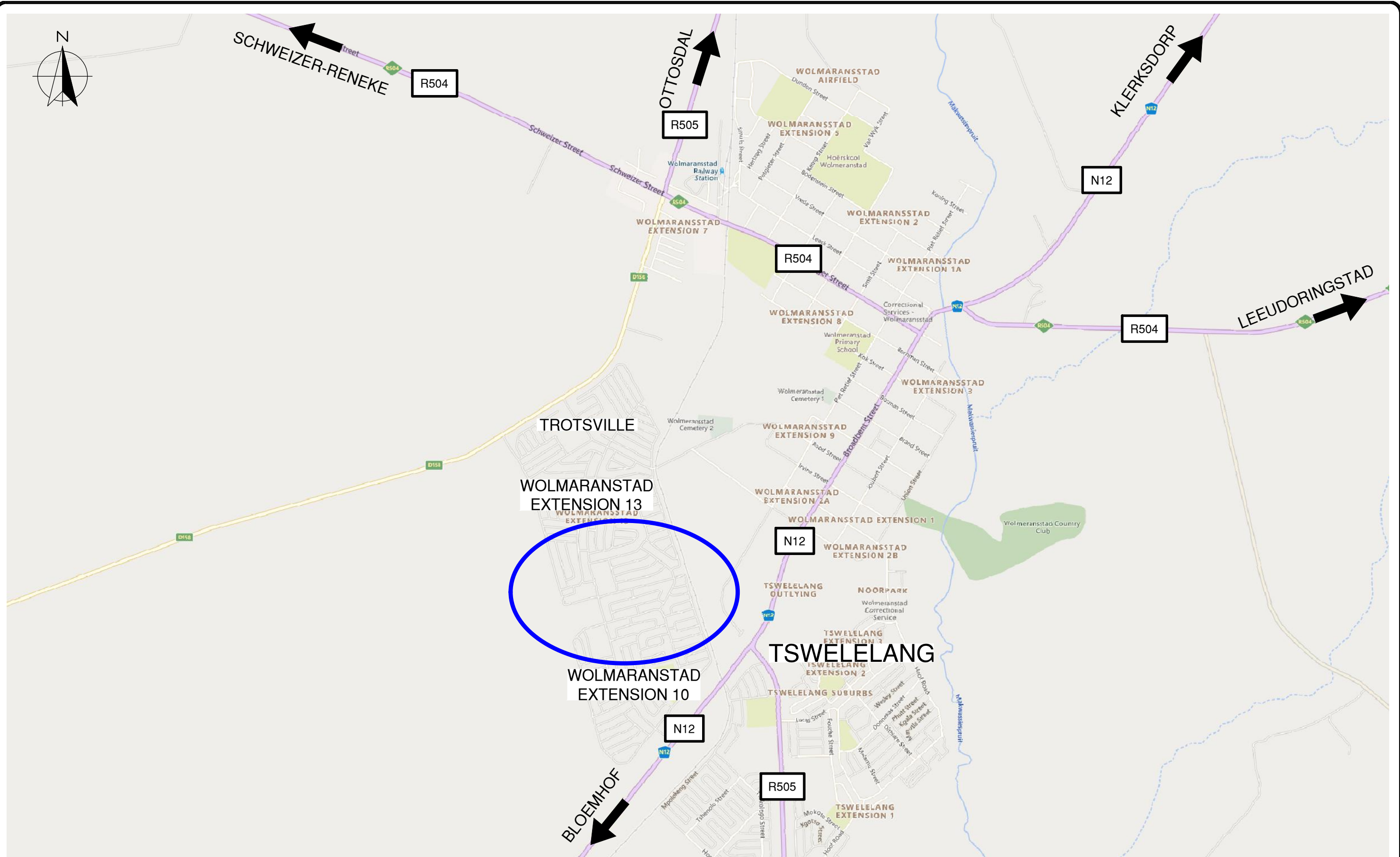
MAQUASSI HILLS LM

DRAWING TITLE

PROJECT NAME BOARD

DESIGN	DATE	DRAWN	DATE
-	JUN 2025	-	JUN 2025
SURVEYED	DATE	CHECKED	DATE
-	-	J.BATEMAN	JUN 2025

SCALE		as shown
DRAWING No.		2025-03-G/D/001
REVISION No.		1.0



NOTES	APPROVED:
ENGINEER:	
DATE:	
APPROVED:	
CLIENT:	
DATE:	

REFERENCE DRAWINGS	
PLAN Nr.	DESCRIPTION



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CLIENT
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LOCAL MUNICIPALITY**

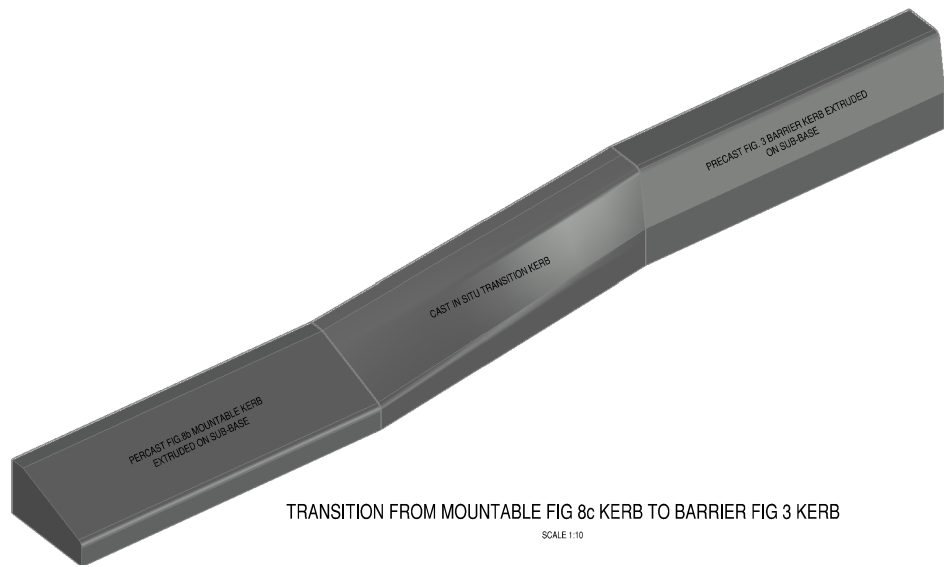
IMPLEMENTING AGENT
MAQUASSI HILLS LM

PROJECT
**UPGRADING OF GRAVEL ROADS
TO BLOCK PAVING IN TSWELELANG**

DRAWING TITLE
LOCALITY MAP

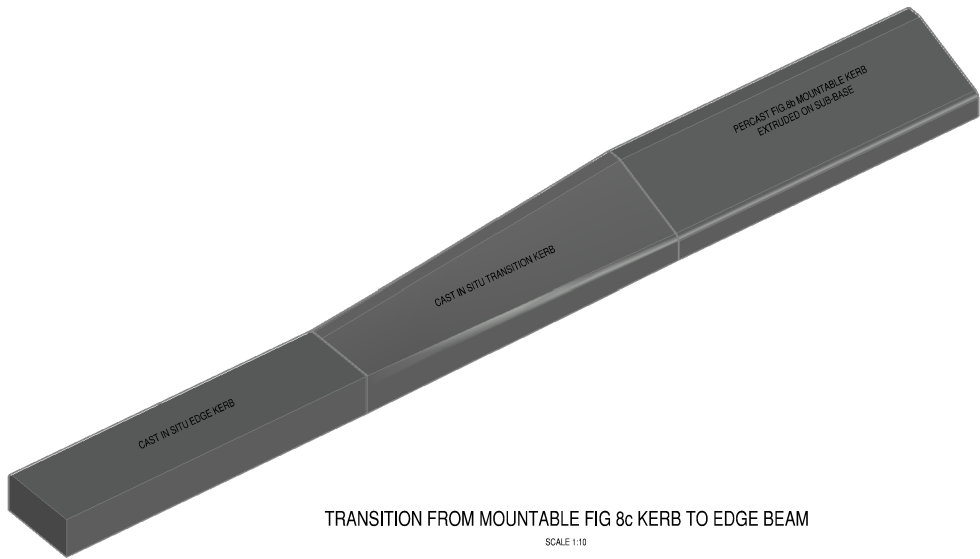
PRINT ISSUED ON			
REVISIONS			
No.	DATE	BY	DESCRIPTION
SCALE: 1:25 000			

DESIGN	DATE	DRAWN	DATE
-	-	-	-
SURVEYED	DATE	CHECKED	DATE
-	-	J.BATEMAN	JUN 2025
DRAWING No. 2025-03-G/P/001			
REVISION No.			
1.0			



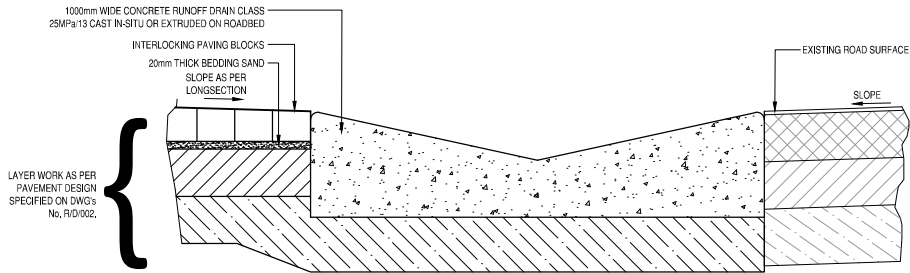
TRANSITION FROM MOUNTABLE FIG 8c KERB TO BARRIER FIG 3 KERB

SCALE 1:10



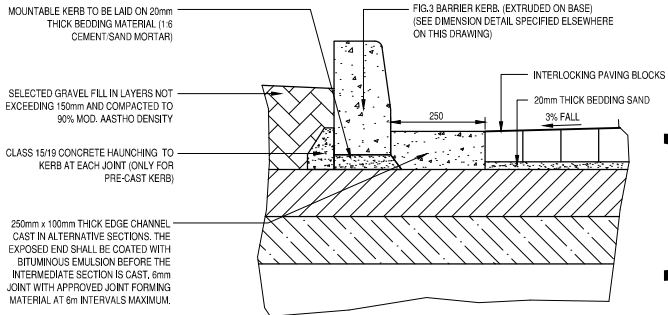
TRANSITION FROM MOUNTABLE FIG 8c KERB TO EDGE BEAM

SCALE 1:10



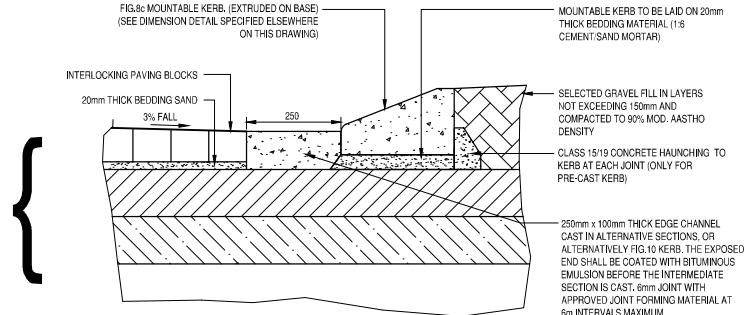
TYPICAL RUNOFF DRAIN SECTION AT INTERSECTION CONNECTION

SCALE 1:10



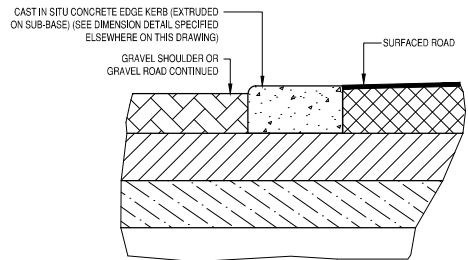
TYPICAL SECTION THROUGH FIG.3 BARRIER KERB

SCALE 1:10

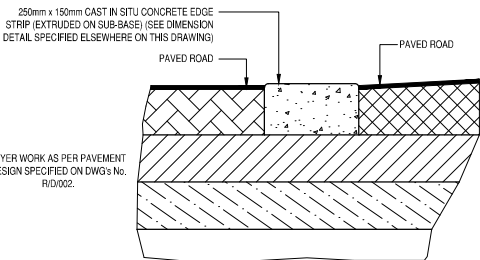


TYPICAL SECTION THROUGH FIG.8b MOUNTABLE KERB

SCALE 1:10

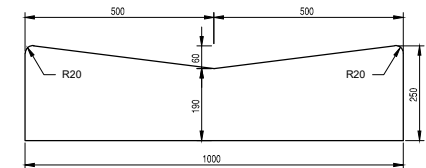


TYPICAL SECTION THROUGH EDGING KERB (FLAT)



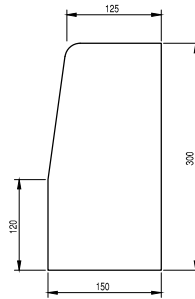
TYPICAL SECTION THROUGH EDGE STRIP

SCALE 1:10



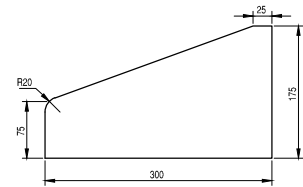
RUNOFF DRAIN CAST INSITU OR EXTRUDED ON ROADBED

SCALE 1:10



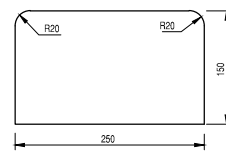
BARRIER KERB (FIG.3)

SCALE 1:5



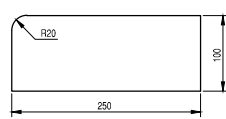
MOUNTABLE KERB (FIG.8b)

SCALE 1:5



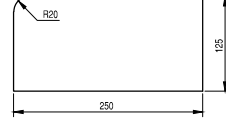
RECTANGULAR EDGING STRIP

SCALE 1:5



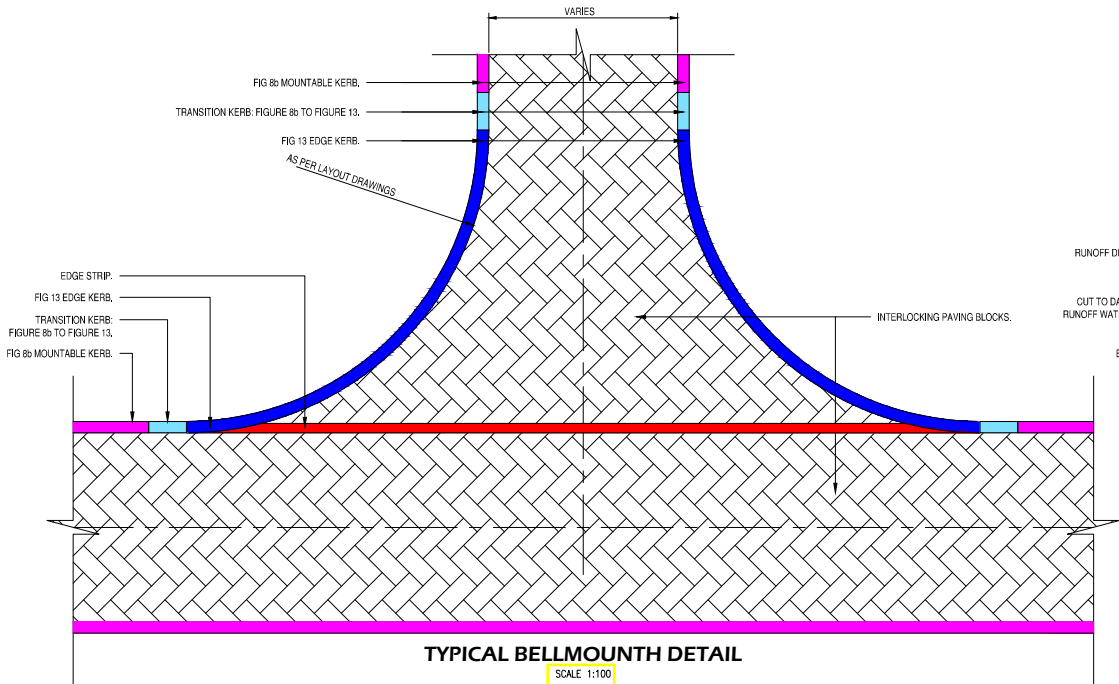
ALTERNATIVE EDGE CHANNEL (FIG.10)

SCALE 1:5



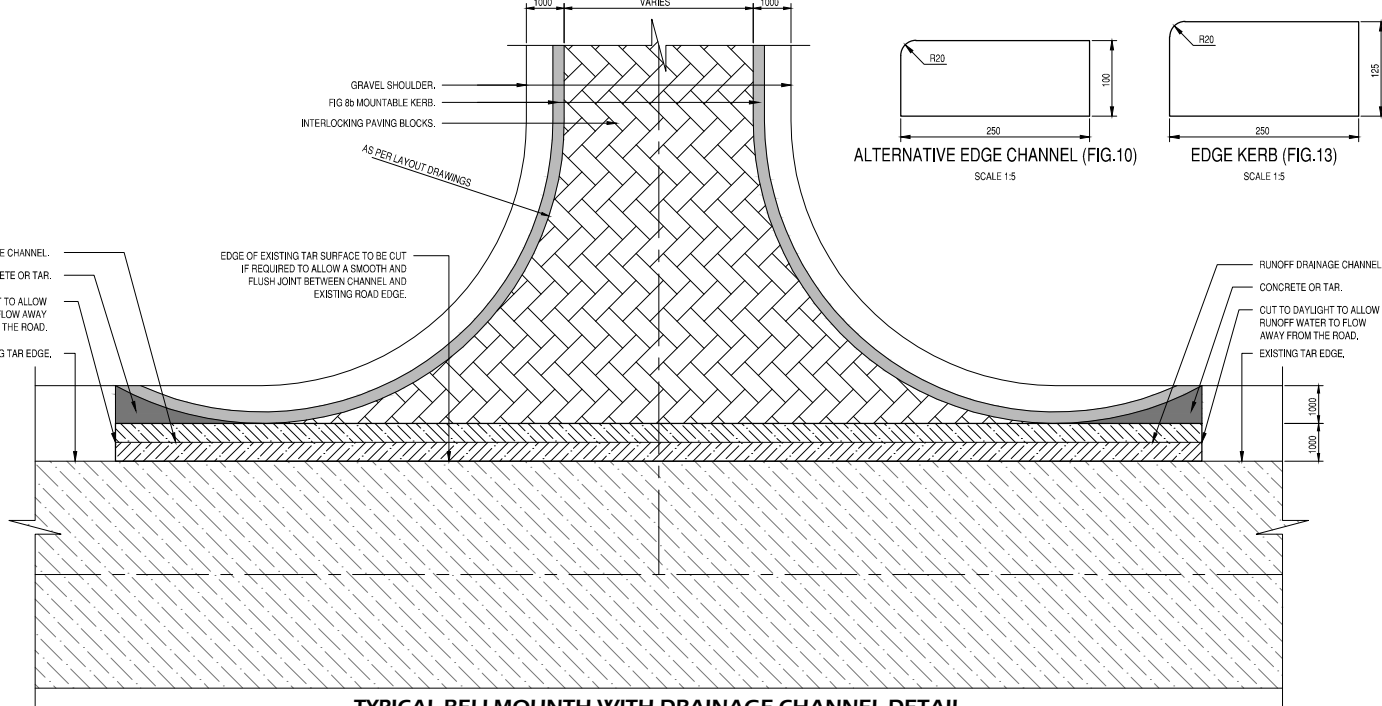
EDGE KERB (FIG.13)

SCALE 1:5



TYPICAL BELLMOUTH DETAIL

SCALE 1:100



TYPICAL BELLMOUTH WITH DRAINAGE CHANNEL DETAIL

SCALE 1:100

REVISIONS

No.	DATE	BY	DESCRIPTION

NOTES

- ALL EXTRUDED CONCRETE KERBING AND EDGE STRIPS SHALL BE CLASS 25/13 CONCRETE.
- FIGURE 8 MOUNTABLE KERB TO BE CONSTRUCTED ON THE DRAINAGE SIDE (LOW LEG) OF ALL THE SURFACED CROSSFALL ROADS, UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE LAYOUT DRAWINGS.
- EDGING STRIP TO BE CONSTRUCTED ON THE NON DRAINAGE SIDE (HIGHER LEG) OF ALL THE SURFACED CROSSFALL ROADS UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE LAYOUT DRAWINGS.
- EDGING STRIP TO BE CONSTRUCTED ALONG THE TOTAL LENGTH OF THE BELLMOUTH OPENING AT ALL INTERSECTIONS WITH THE SURFACED ROADS AS INDICATED ON THE LAYOUT DRAWINGS.
- PRIOR TO THE CONSTRUCTION OF ANY EXTRUDED KERBING OR EDGE STRIP AN APPROPRIATELY CERTIFIED LABORATORY TESTED DESIGN MIX SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL.
- THE STRENGTH OF ALL PRE-CAST CONCRETE KERBING SHALL BE IN TERMS OF SABS 927.

REFERENCE DRAWINGS

PLAN No.	DESCRIPTION

APPROVED:	
ENGINEER:	DATE:
APPROVED:	
CLIENT:	DATE:

PRINT ISSUED ON


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 CLIENT
MAQUASSI HILLS
LOCAL MUNICIPALITY

PROJECT

**UPGRADING OF GRAVEL ROADS
TO BLOCK PAVING
IN TSWELELANG**

IMPLEMENTING AGENT:
MAQUASSI HILLS LM

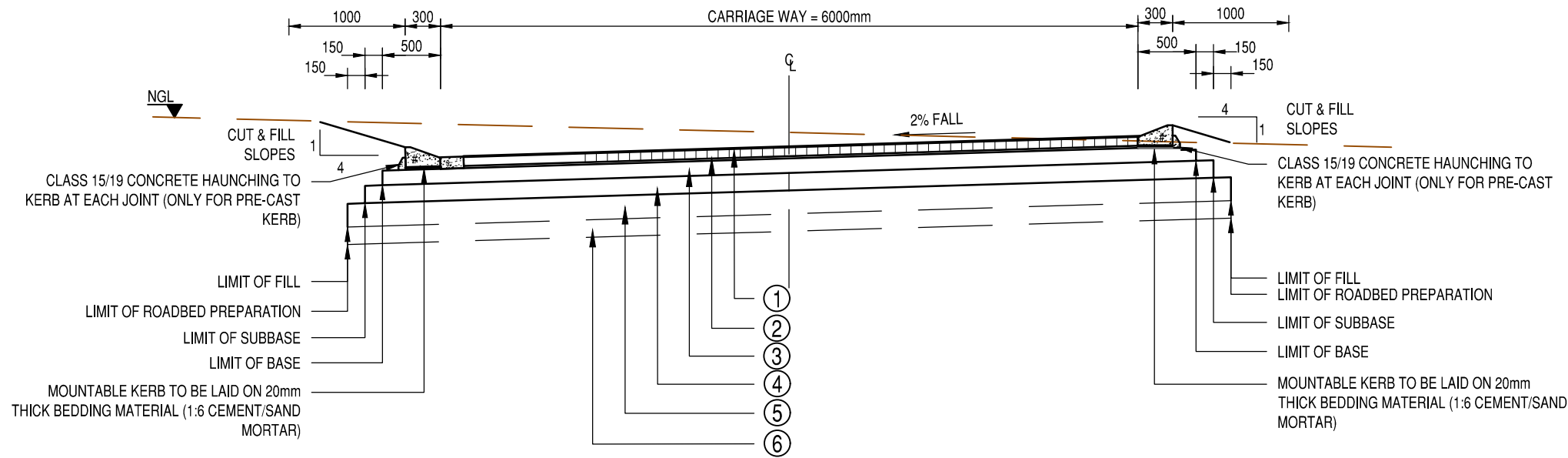
DRAWING TITLE
TYPICAL KERBING DETAILS

DESIGN	DATE	DRAWN	DATE
-	JUN 2025	-	JUN 2025
SURVEYED	DATE	CHECKED	DATE
-	-	J.BATEMAN	JUN 2025

SCALE as shown

DRAWING No.
2025-03-R/D/001

REVISION No.						
1.0						



**TYPICAL PAVEMENT DESIGN DETAIL
CROSS-FALL ROAD**

SCALE 1:50

NOTE:

1. PRIOR TO THE UNDERTAKING OF ANY VIBRATORY OR PAD FOOT ROLLING WITHIN THE ROAD FOUNDATION, AN ON SITE TRIAL SECTION SHALL BE PREPARED AND CONDUCTED IN ORDER TO ASCERTAIN THE AVERAGE NUMBER OF m.PASSES REQUIRED IN ORDER TO OBTAIN THE SPECIFIED COMPACTION EFFORT FOR THE ROADBED PREPARATION.
2. THE ENGINEER SHALL THEN INSTRUCT THE CONTRACTOR TO REMOVE AND SPOIL THE TOPSOIL AND HILLWASH OVERBURN TO WEARING COURSE DEPTH OR FERRICRETE LEVEL, WHERE REQUIRED WHICHEVER IS THE SHALLOWEST. ALL FERRICRETE MATERIAL SHALL BE CUT TO TEMPORARY STOCKPILE AS DETERMINED BY THE ENGINEER FOR LATER USE IN THE PAVEMENT STRUCTURE AND WEARING COURSE LAYER WORKS.
3. THE CONTRACTOR SHALL THEN APPLY THE NUMBER OF m.PASSES ORDERED BY THE ENGINEER, PERIODICALLY WATERING AND BLADING THE ROADBED FOUNDATION AREA TO ENSURE MAXIMUM WORKABILITY AND COMPACTION EFFICIENCY.
4. AFTER APPLYING THE VIBRATORY OR PAD FOOT ROLLING, CUT TO FILL OR BLADE TO WINDROW THE FERRICRETE PINNACLES, RIP, SCARIFY AND RECOMPACT ROADBED TO ABOVE SPECIFICATION WHERE REQUIRED.

LEGEND:

- a) REQUIREMENTS ARE GIVEN IN THE FOLLOWING ORDER:
LAYER THICKNESS/MATERIAL/CBR AND
MIN COMPACTION/MIN. GM/MAX. PI
- b) MIN. UNCONFINED COMPRESSIVE STRENGTH (UCS) IS
SHOWN IN MPa.
- c) MIN. DENSITY IS GIVEN AS % OF MAX MODIFIED
AASHTO DENSITY.
- d) SG = STABILIZED GRAVEL
NG = NATURAL GRAVEL
IS = IN SITU SOIL
PI = PLASTICITY INDEX
GM = GRADING MODULES
SBP = SHOULDER BREAK POINT
- e) # FIGURE 8c MOUNTABLE CONCRETE KERB (CLASS
25/13) EXTRUDED ON BASE
* FIGURE 3 MOUNTABLE CONCRETE KERB (CLASS
25/13) EXTRUDED ON SUBBASE
§ 250mm WIDE x 100mm THICK EDGE CHANNEL CAST IN
ALTERNATIVE SECTIONS, OR ALTERNATIVELY FIG.10 KERB, THE
EXPOSED END SHALL BE COATED WITH BITUMINOUS EMULSION
BEFORE THE INTERMEDIATE SECTION IS CAST. 6mm JOINT
WITH APPROVED JOINT FORMING MATERIAL AT 6m INTERVALS
MAXIMUM.

- ① SEGMENTED PAVING
SHAPE S-A (G-BLOCKS), CLASS 25, 60mm THICK
- ② RIVER SAND
20 / RIVER SAND
IMPORTED FROM COMMERCIAL SOURCE
- ③ BASE
150mm C4 MATERIAL COMPACTED TO 98% MOD AASHTO DENSITY.
- ④ SUBBASE
150mm G5 MATERIAL COMPACTED TO 95% MOD AASHTO DENSITY
- ⑤ ROADBED PREPARATION (REFER TO NOTES)
VIBRATORY OR PAD FOOT ROLLING
OR
RIP SCARIFY AND RE-COMPACT 200/IS@90%
- ⑥ FILL - ONLY WHERE REQUIRED
FILL TO BE A MINIMUM OF G9 MATERIAL TO BE COMPACTED IN
LAYERS NOT EXCEEDING 150mm THICKNESS TO 90% MOD AASHTO
DENSITY.

NOTES	APPROVED:
ENGINEER:	
DATE:	
CLIENT:	APPROVED:
DATE:	

REFERENCE DRAWINGS	
PLAN Nr.	DESCRIPTION

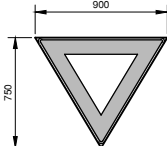
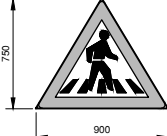
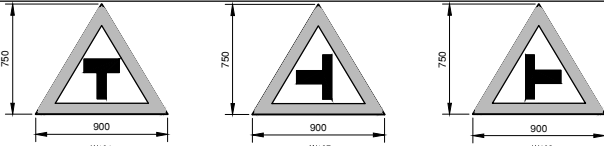
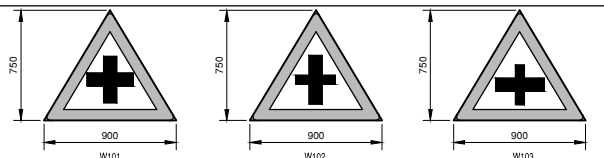
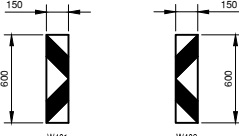
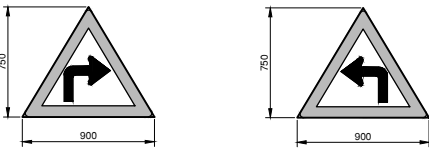
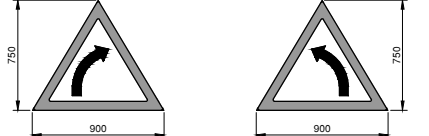
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CLIENT
**MAQUASSI HILLS
LOCAL MUNICIPALITY**
IMPLEMENTING AGENT
MAQUASSI HILLS LM

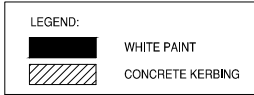
PROJECT
**UPGRADING OF GRAVEL ROADS
TO BLOCK PAVING IN TSWELELANG**
DRAWING TITLE
**TYPICAL PAVEMENT DESIGN DETAIL FOR
6.0m SURFACED ACCESS STREETS
(PAVING BLOCK FINISH)**

PRINT ISSUED ON			
REVISIONS			
No.	DATE	BY	DESCRIPTION
SCALE: 1:50			

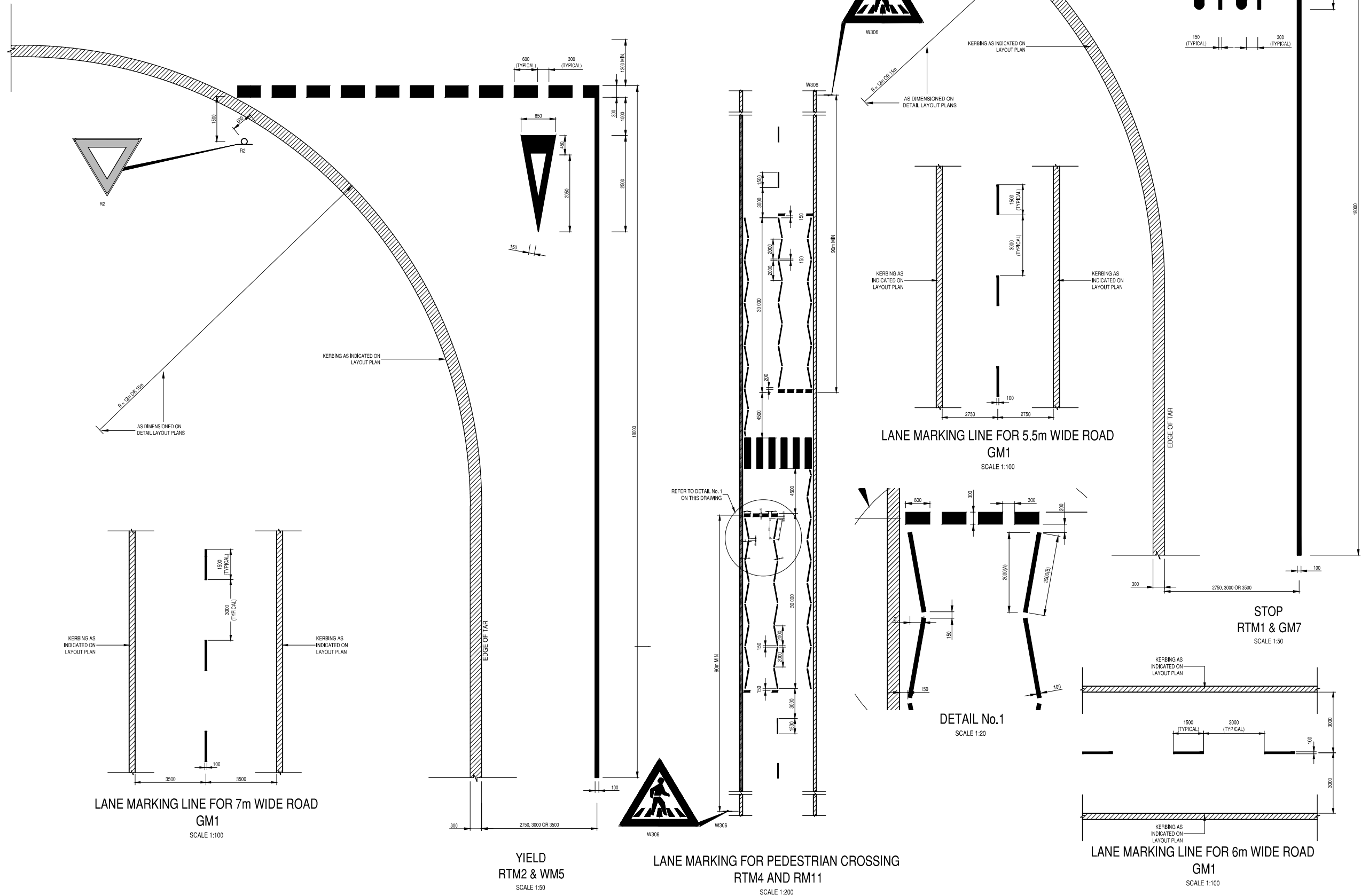
DESIGN	DATE	DRAWN	DATE
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SURVEYED	DATE	CHECKED	DATE
-	-	J.BATEMAN	JUN 2025
DRAWING No. 2025-03-R/D/002			
REVISION No.			
1.0			

ITEM No.	TYPE OF SIGN	SIGN. No.	DESCRIPTION	No.	ROADSIGN	LEGEND	SYMBOL	COLOUR		
								BORDER	LETTERS OR SYMBOL	BACKGROUND
1.	REGULATION CONTROL	R1	STOP SIGN	4		DIN 1451 STYLE "A"	LETTER STOP	WHITE RETROREFLECTIVE	WHITE RETROREFLECTIVE	RED RETROREFLECTIVE
2.	REGULATION CONTROL	R2	YIELD SIGN (RIGHT)	X				OUTER BORDER: WHITE RETROREFLECTIVE INNER BORDER: RED RETROREFLECTIVE		WHITE RETROREFLECTIVE
3.	SYMBOLIC	W306	PEDESTRIAN CROSSING	X			PEDESTRIAN CROSSING	RED RETROREFLECTIVE	BLACK SEMI-MATT	WHITE RETROREFLECTIVE
4.	WARNING ROAD LAYOUT	W104 & W107 & W108	T-JUNCTION SIDE ROAD JUNCTION (LEFT) SIDE ROAD JUNCTION (RIGHT)	4 X X X			T-SYMBOL	TRIANGLE: RED RETROREFLECTIVE	BLACK SEMI-MATT	WHITE RETROREFLECTIVE
5.	WARNING ROAD LAYOUT	W101 & W102 & W103	CROSSROAD JUNCTION	X X X X			+SYMBOL	TRIANGLE: RED RETROREFLECTIVE	BLACK SEMI-MATT	WHITE RETROREFLECTIVE
6.	WARNING HAZARD MARKER	W401 & W402	DANGER PLATE DELINRATOR PLATE	1 1			DIAGONALS @ 45°	NO BORDER	RED RETROREFLECTIVE	WHITE RETROREFLECTIVE
7.	WARNING HAZARD MARKER	W409	T-JUNCTION CHEVRON	3			ARROWS	NO BORDER	ARROWS: RED RETROREFLECTIVE	WHITE RETROREFLECTIVE
11.	INFORMATION LOCATION	R201	SPEED LIMIT SIGN	X 8			NUMBERS: 40 NUMBERS: 60	CIRCLE: RED RETROREFLECTIVE	BLACK SEMI-MATT	WHITE RETROREFLECTIVE
9.	INFORMATION	W204 & W205	SHARP RIGHT CURVE SHARP LEFT CURVE	X X			CURVE-SYMBOL	TRIANGLE: RED RETROREFLECTIVE	BLACK SEMI-MATT	WHITE RETROREFLECTIVE
10.	INFORMATION LOCATION	W202 & W203	GENTLE CURVE SIGN	6 6			CURVE-SYMBOL	TRIANGLE: RED RETROREFLECTIVE	BLACK SEMI-MATT	WHITE RETROREFLECTIVE
11.	WARNING HAZARD MARKER	W332 & IN 11.1	SPEED HUMP SIGN	X X			SPEED HUMP SYMBOL	TRIANGLE: RED RETROREFLECTIVE	BLACK SEMI-MATT	WHITE RETROREFLECTIVE
12.	RESERVATION	R327-P	BUS & MINIBUS PARKING RESERVATION SIGN	X			BUS & MINIBUS PARKING RESERVATION SYMBOLS	RECTANGLE: WHITE RETROREFLECTIVE	WHITE RETROREFLECTIVE	BLUE RETROREFLECTIVE

REVISIONS			
No.	DATE	BY	DESCRIPTION
NOTES			
1. REFER TO DRAWING No. R/5/001 FOR ROAD SIGNAGE POSITION			
2. REFER TO DRAWING No. R/D/005 FOR POSITION OF SUPPORT BRACKETS AND INSTALLATION DETAILS OF ROAD SIGNS			
3. ALL ROAD MARKINGS AND ROAD SIGNS TO BE MANUFACTURED AND CONSTRUCTED IN ACCORDANCE WITH THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL			
4. ALL ROAD SIGNS TO BE PLACED AT A DEFLECTION ANGLE OF 93° WITH THE CENTRE LINE OF THE ROAD			



PEDESTRIAN CROSSING MARKINGS
RTM4
SCALE 1:50



REVISIONS

No.	DATE	BY	DESCRIPTION

NOTES

1. REFER TO DRAWING NO. R/D/005 FOR POSITION OF SUPPORT BRACKETS AND INSTALLATION DETAILS OF ROAD SIGNS
2. REFER TO DRAWING NO. R/D/003 FOR ROAD SIGNAGE SCHEDULES
3. ALL ROAD MARKINGS AND ROAD SIGNS TO BE MANUFACTURED AND CONSTRUCTED IN ACCORDANCE WITH THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL
4. REFER TO DRAWINGS NO. R/S/001 FOR ROAD SIGNAGE LAYOUT DETAILS
5. ALL ROAD SIGNS TO BE PLACED AT A DEFLECTION ANGLE OF 93° WITH THE CENTER LINE OF THE ROAD
6. FOR RTM THE 2m length of LINE MAY BE MEASURED ALONG THE LINE (IF USING A MASK OF TEMPLATE (b)) OR ALONG THE LINE OF THE ROAD (FOR EASE OF SETTING OUT (A))
7. THE 2IG-24 OFFSET (C) MAY BE REDUCED FROM 500mm to 300mm FOR LANCES WITH A WIDTH LESS THAN 3400mm

REFERENCE DRAWINGS

[illegible]

APPROVED

ENGINEER: _____ DATE: _____

APPROVED

CLIENT: _____ DATE: _____

PRINT ISSUED ON



**MAQUASSI HILLS
LOCAL MUNICIPALITY**

PROJECT

UPGRADING OF GRAVEL ROADS TO BLOCK PAVING IN TSWELELANG

IMPLEMENTING AGENT

MAQUASSI HILLS LM

DRAWING TITLE

ROAD MARKING DETAILS

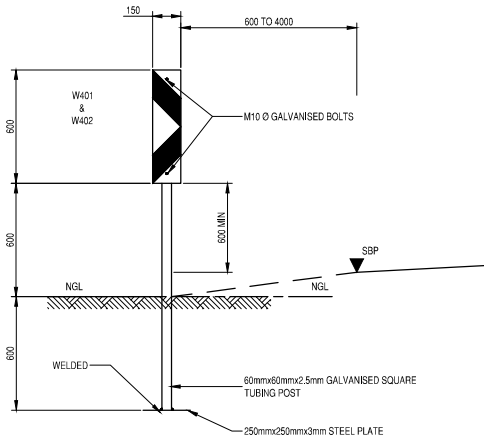
DESIGN -	DATE JUN 2025	DRAWN -	DATE JUN 2025
SURVEYED -	DATE -	CHECKED J.BATEMAN	DATE JUN 2025

SCALE as shown

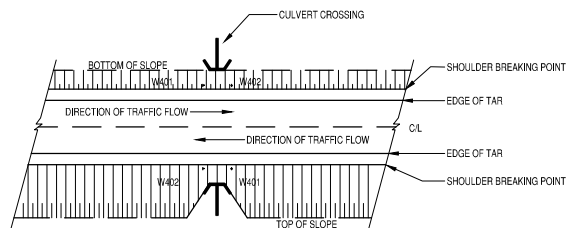
DRAWING No.

2025-03-R/D/004

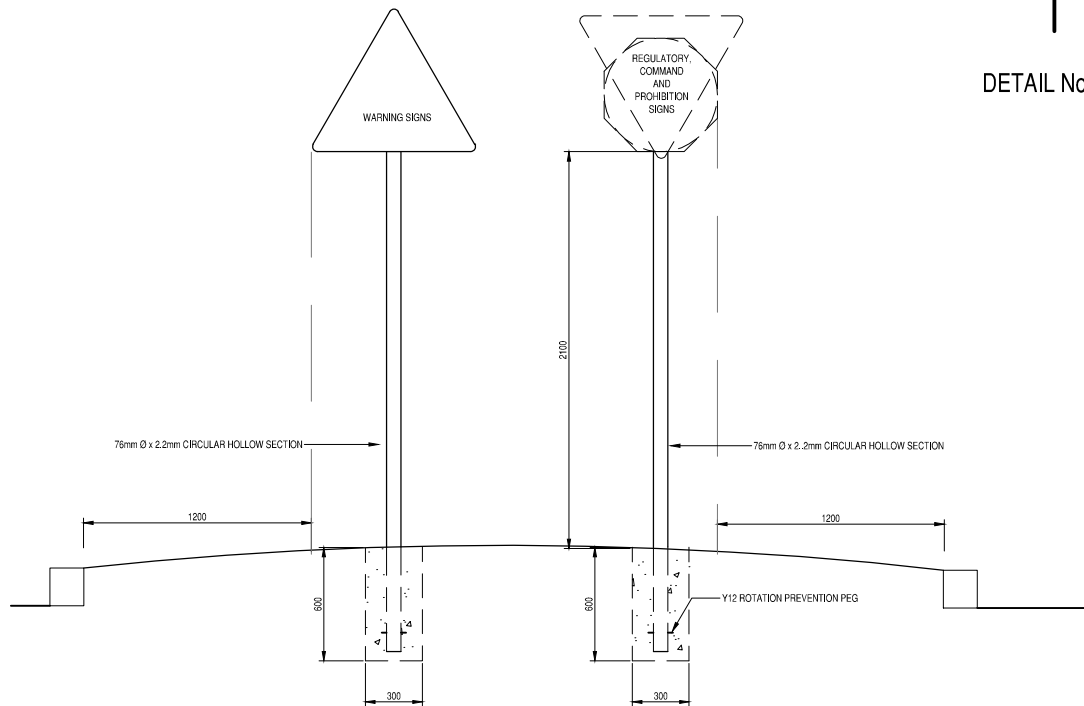
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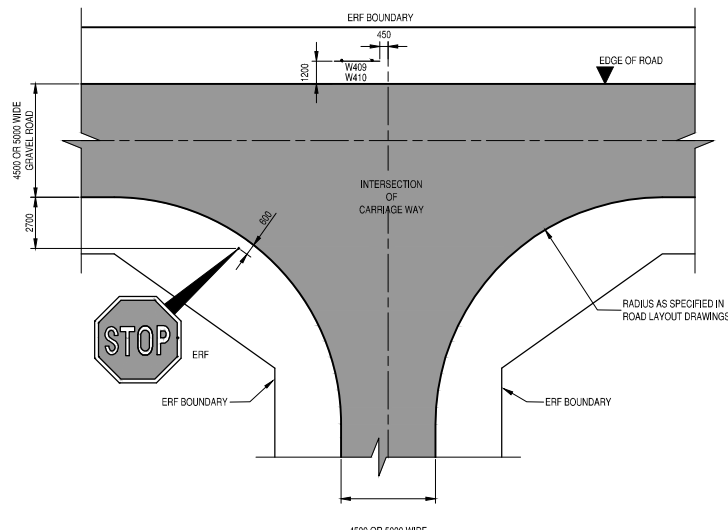
FRONT ELEVATION W401
SCALE 1:20



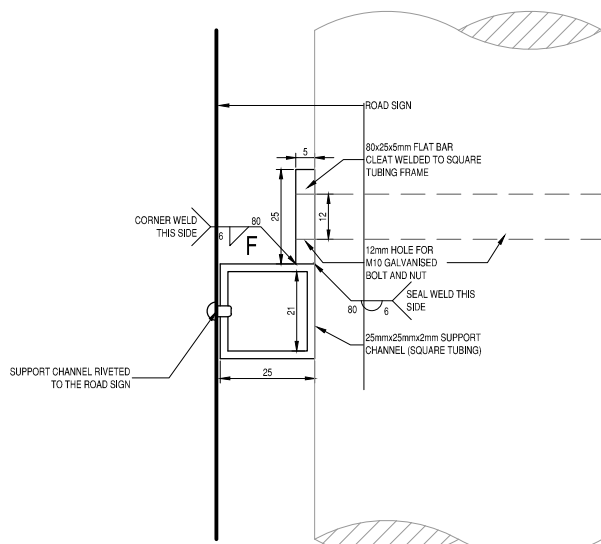
SIGN AT CULVERT
NTS



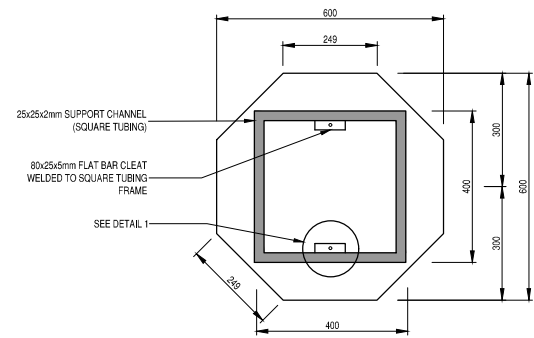
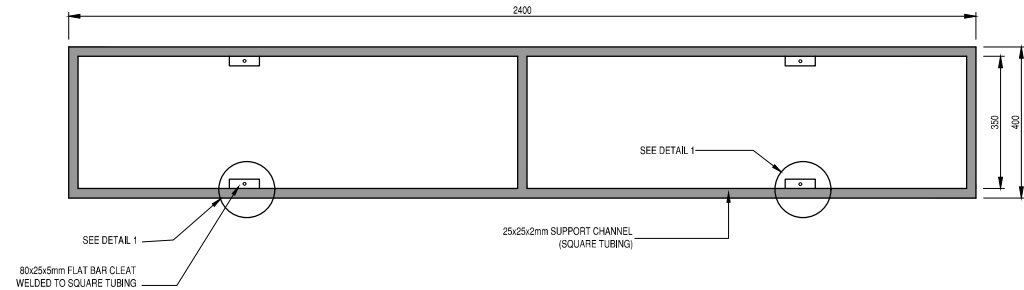
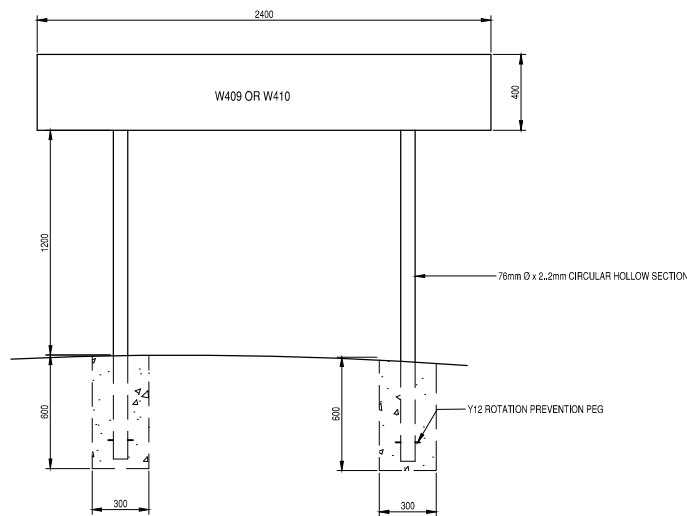
POSITIONING DETAILS
SCALE 1:20



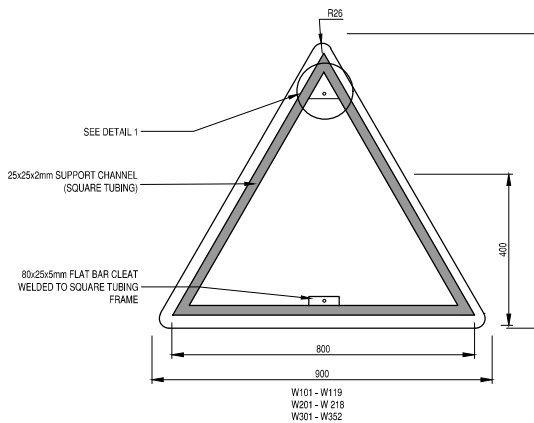
CHEVRON POSITION AT INTERSECTION
SCALE 1:200



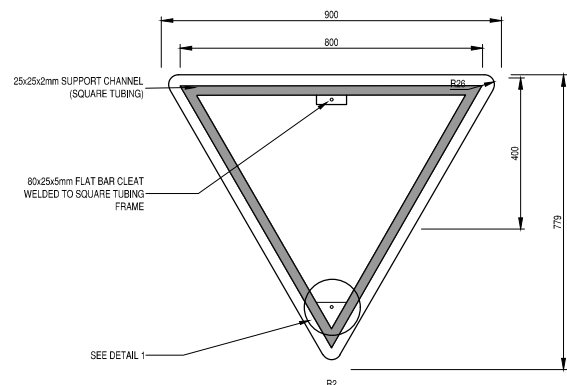
DETAIL No. 1 SECTIONAL ELEVATION
SCALE 1:1



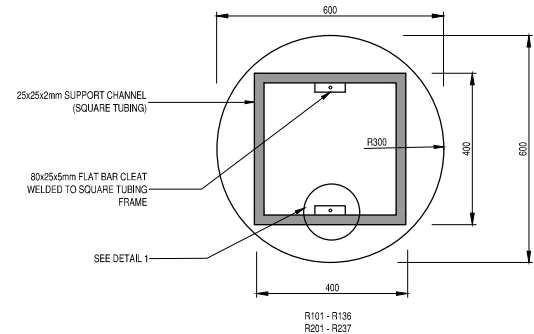
CONTROL SIGNS



ROAD LAYOUT AND SYMBOLIC SIGNS



CONTROL SIGN



COMMAND AND PROHIBITION SIGNS
FIXING AND SUPPORT DETAILS
SCALE 1:10

REVISIONS

No.	DATE	BY	DESCRIPTION

NOTES

- REFER TO DRAWING No. R/5/001 FOR ROAD SIGNAGE POSITION
- REFER TO DRAWING No. R/D/004 FOR ROAD MARKING DETAILS
- ALL ROAD MARKINGS AND ROAD SIGNS TO BE MANUFACTURED AND CONSTRUCTED IN ACCORDANCE WITH THE SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL
- ALL ROAD SIGNS TO BE PLACED AT A DEFLECTION ANGLE OF 93° WITH THE CENTER LINE OF THE ROAD
- M10 x 90mm GALVANISED BOLTS AND NUTS FOR FIXING ROAD SIGNS TO GALVANISED STEEL PIPES
- ALL ROAD SIGNS TO BE FIXED TO SQUARE TUBING SUPPORT CHANNEL BY MEANS OF 6mm Ø RIVETS AT A MAXIMUM SPACING OF 125mm c/c

REFERENCE DRAWINGS

PLAN No.	DESCRIPTION

APPROVED:	DATE:
ENGINEER:	DATE:
APPROVED:	DATE:
CLIENT:	DATE:

PRINT ISSUED ON

Tsela Tsweu
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329 Stateway Chambers, Stateway, Welkom,
PO Box 2600, Welkom, 9460, South Africa

CLIENT
MAQUASSI HILLS LOCAL MUNICIPALITY

PROJECT
UPGRADING OF GRAVEL ROADS TO BLOCK PAVING IN TSWELELANG

IMPLEMENTING AGENT:
MAQUASSI HILLS LM

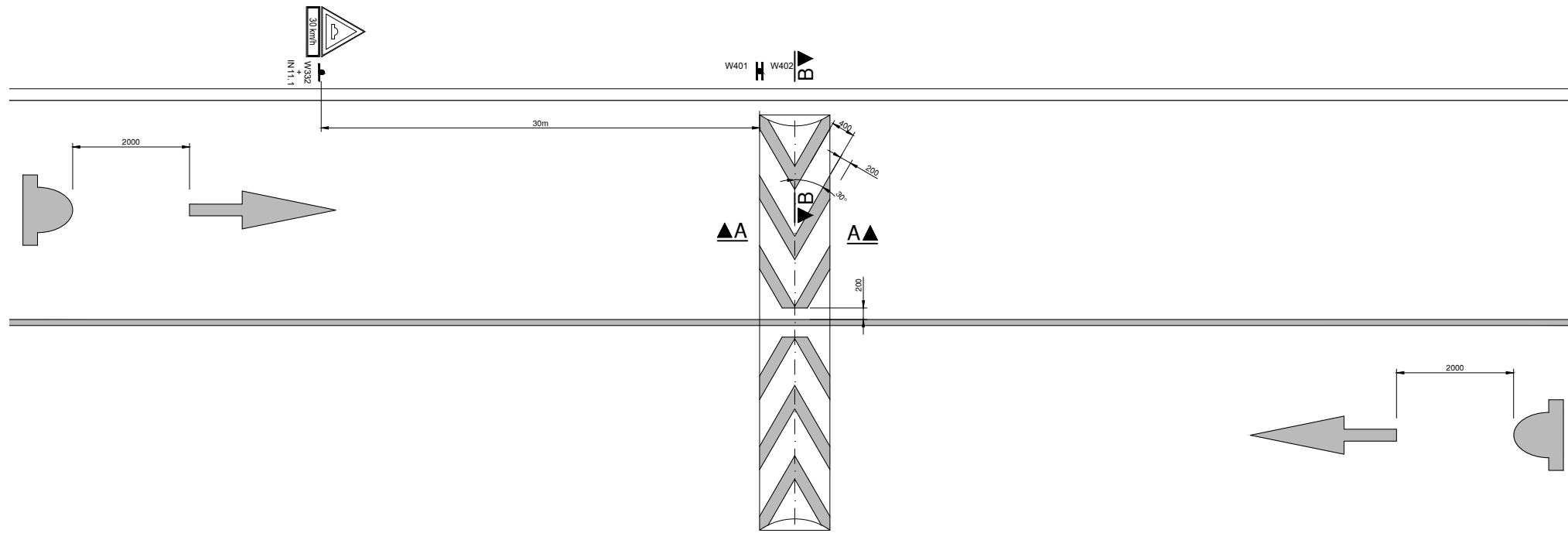
DRAWING TITLE
POSITION OF SUPPORT BRACKETS AND INSTALLATION DETAILS OF ROAD SIGNS

DESIGN	DATE	DRAWN	DATE
	JUN 2025		JUN 2025
SURVEYED	DATE	CHECKED	DATE
		J.BATEMAN	JUN 2025

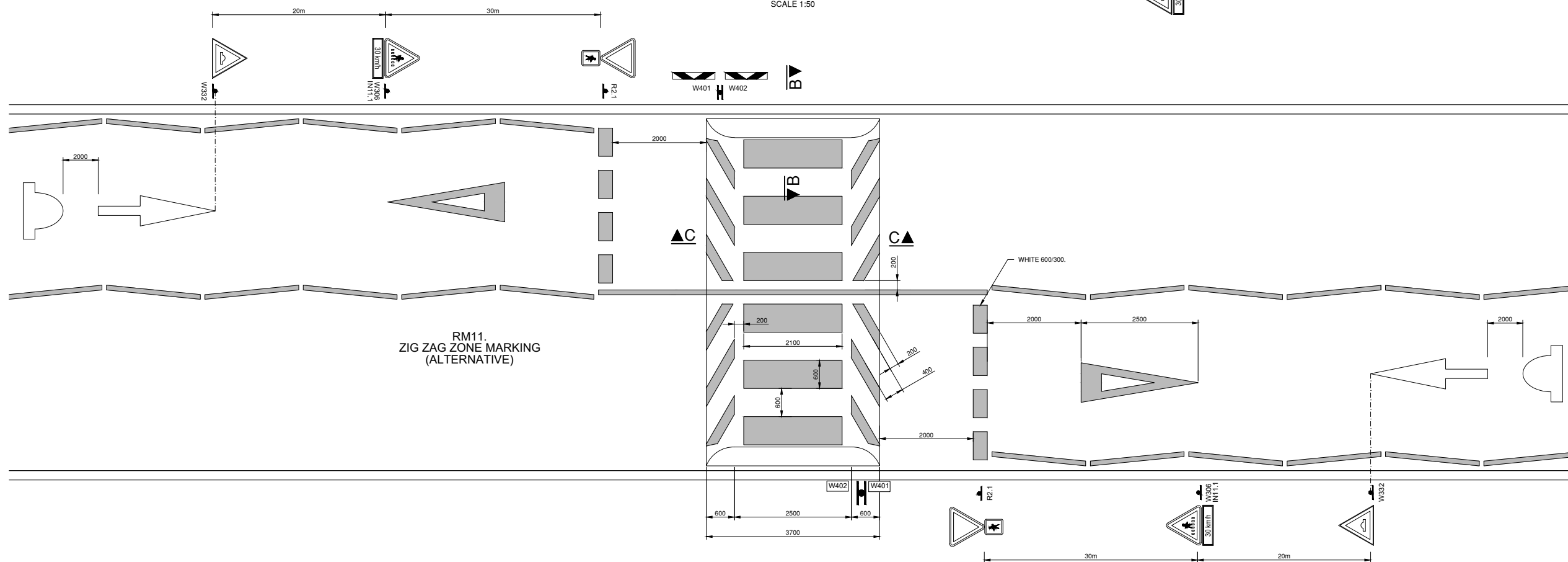
SCALE
as shown

DRAWING No.
2025-03-R/D/005

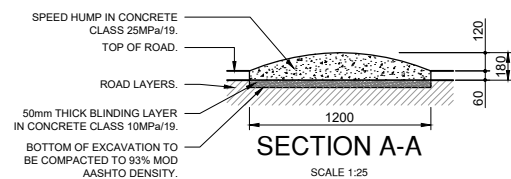
REVISION No.						
1.0						



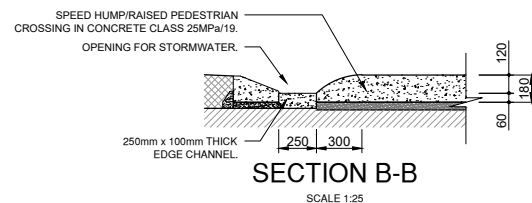
TYPICAL SPEED HUMP
SCALE 1:50



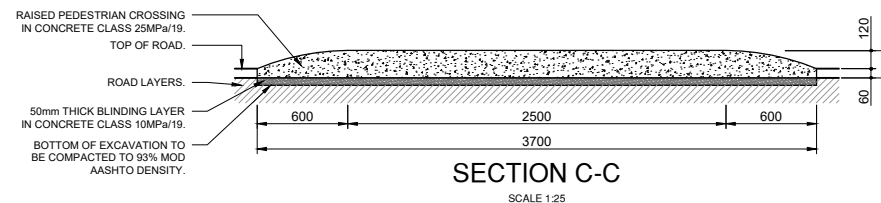
TYPICAL SPEED HUMP/RAISED PEDESTRIAN CROSSING
NTS



SECTION A-A
SCALE 1:25



SECTION B-B
SCALE 1:25



SECTION C-C
SCALE 1:25

REVISIONS

No.	DATE	BY	DESCRIPTION

NOTES

- REFER TO ROAD LAYOUT DRAWINGS FOR POSITION OF SPEED HUMPS.

REFERENCE DRAWINGS

PLAN No.	DESCRIPTION

APPROVED: ENGINEER: DATE:

APPROVED: CLIENT: DATE:

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IMPLEMENTING AGENT:
MAQUASSI HILLS LM

DRAWING TITLE
TYPICAL SPEED HUMP & RAISED PEDESTRIAN CROSSING LAYOUT AND DETAILS

DESIGN	DATE	DRAWN	DATE
	MAR 2023		MAR 2023
SURVEYED	DATE	CHECKED	DATE
		J.BATEMAN	MAR 2023

SCALE as shown

DRAWING No.

2025-03-R/D/006

REVISION No.							
1.0							



TSWELELANG STREET SURVEY BENCHMARKS TABLE : SYSTEM WG 25				
NAME	DESC	Y	X	ELEVATION
BM base	peg	-95684.511	3011581.491	1363.956
BM 1d	nil	-95297.827	3011192.321	1367.018
BM 3445	hic	-95707.480	3011740.320	1364.109
BM 3408	hic	-95602.963	3011704.791	1365.911
BM 3401	hic	-95478.699	3011722.874	1368.037
BM 3121	peg	-95355.416	3011753.585	1371.110
BM 1d2	nil	-95258.435	3011788.783	1373.578
BM 3408	peg	-95602.974	3011687.609	1362.221
BM 3373	hic	-95836.386	3011813.624	1362.613
BM 3313	hic	-95758.889	3011550.186	1362.758
BM 3310	peg	-95807.737	3011535.794	1362.129
BM 3301	hic	-95650.111	3011489.802	1364.546
BM 3269	peg	-95620.168	3011397.692	1364.249
BM 3238	hic	-95502.258	3011312.795	1364.559
BM 3219	peg	-95535.976	3011254.923	1364.657
BM 2946	hic	-95470.228	3011239.266	1365.552
BM 2941	peg	-95392.707	3011195.292	1366.557
hic	= HOLE IN CONCRETE			
nil	= NAIL IN TAR			
peg	= 12mm PEG			

REVISIONS

No.	DATE	BY	DESCRIPTION
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NOTES

PROPOSED NEW ROAD 1

PROPOSED NEW ROAD 2

EXISTING RAILWAY LINE

EDGE STRIP

600mmØ RC CLASS 100D STORM WATER PIPE

PROPOSED STORM WATER END-STRUCTURE

BM #

EXISTING FENCE LINE

EXISTING ELECTRICITY

EXISTING MANHOLE

EXISTING STORMWATER CHANNEL

SEWER PIPE

1. FOR TYPICAL ROAD DETAILS REFER TO DRAWINGS RANGE R/D/00#

2. FOR ROAD LONGSECTIONS REFER TO DRAWING RANGE R/L/00#

3. FOR ROAD CROSS-SECTIONS REFER TO DRAWING RANGE R/X/00#

4. FOR STORM WATER DETAILS REFER TO DRAWING RANGE S/D/00#

REFERENCE DRAWINGS

PLAN No.	DESCRIPTION
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APPROVED:

ENGINEER: _____ DATE: _____

APPROVED:

CLIENT: _____ DATE: _____

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MAQUASSI HILLS
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TO BLOCK PAVING
IN TSWELELANG

IMPLEMENTING AGENT:

MAQUASSI HILLS LM

DRAWING TITLE

PROPOSED NEW ROAD
LAYOUT IN
TSWELELANG

DESIGN	DATE	DRAWN	DATE
	JUN 2025		JUN 2025

SURVEYED	DATE	CHECKED	DATE
		J.BATEMAN	JUN 2025

SCALE

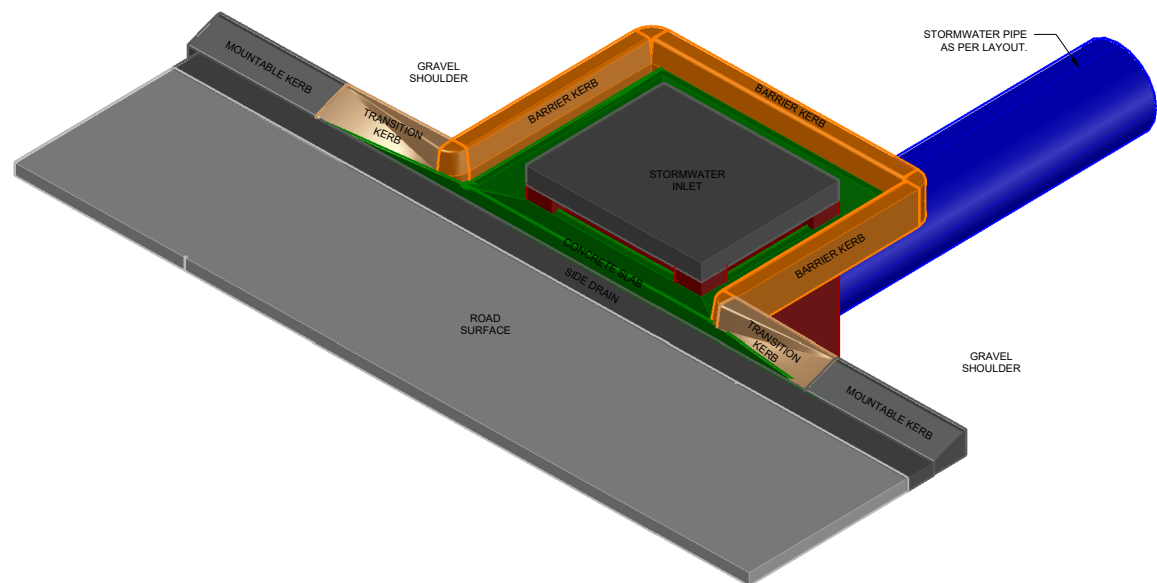
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DRAWING No.

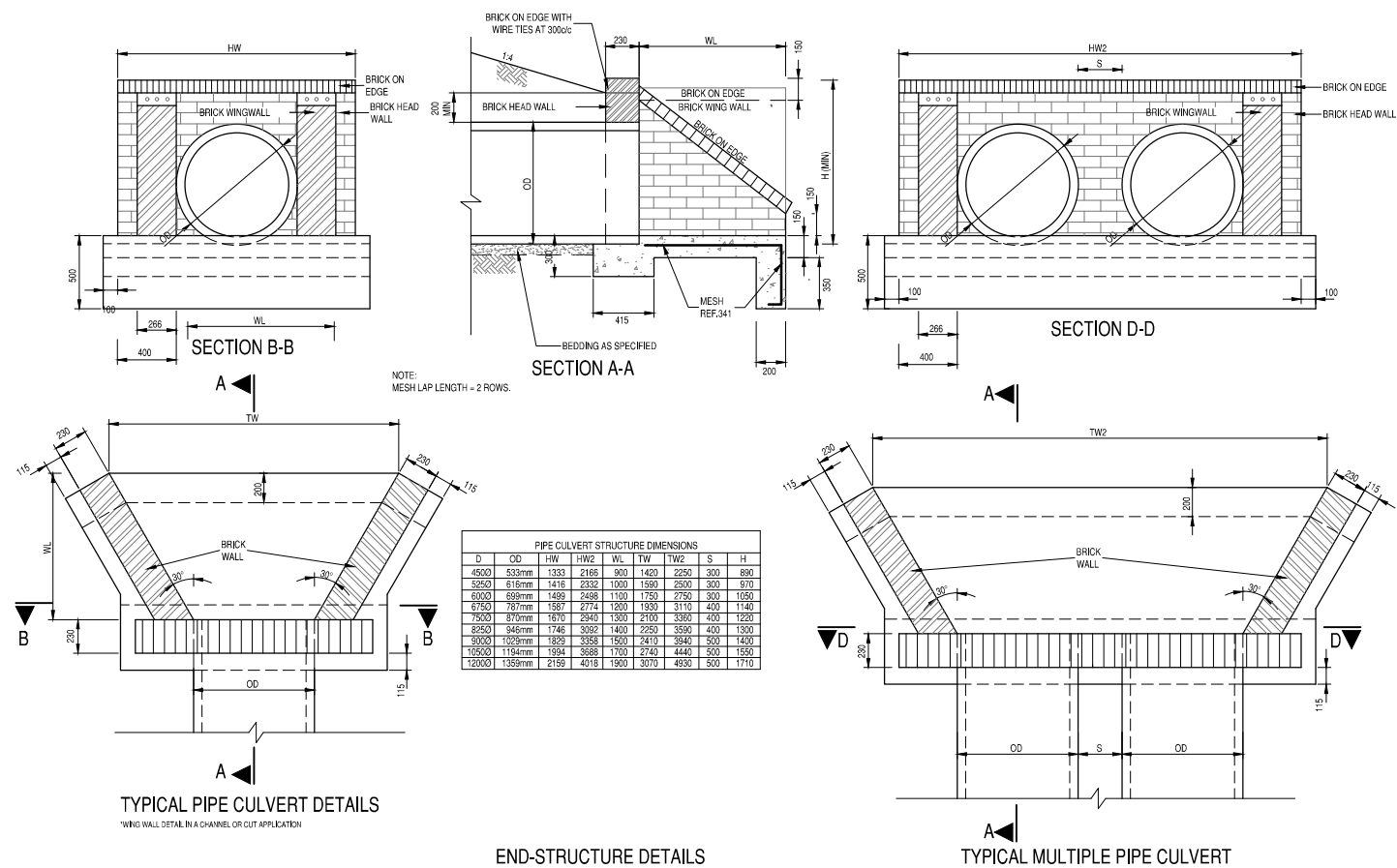
2025-03-R/P/001

REVISION No.

1.0					
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TYPICAL STORM WATER KERB OUTLET DETAIL
TYPE 1: 3D VIEW 1
SCALE 1:30



REVISIONS			
No.	DATE	BY	DESCRIPTION

1. REFER TO ROAD LAYOUT AND LONGSECTION DRAWINGS FOR POSITIONING OF STORMWATER KERB OUTLETS.

[illegible]

APPROVED:	
ENGINEER: _____	DATE: _____
APPROVED:	
CLIENT: _____	DATE: _____

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PROJECT

UPGRADING OF GRAVEL ROADS TO BLOCK PAVING IN TSWELELANG

IMPLEMENTING AGENT:

MAQUASSI HILLS LM

DRAWING TITLE

TYPICAL STORMWATER KERB OUTLET DETAILS & END-STRUCTURE

DESIGN -	DATE JUN 2025	DRAWN -	DATE JUN 2025
SURVEYED -	DATE -	CHECKED J.BATEMAN	DATE JUN 2025

SCALE as shown

DRAWING No.

2025-03-S/D/001

REVISION No.						
	1.0					