



MOHOKARE
LOCAL MUNICIPALITY

BID NO. SCM/MOH/11/2023

**SMITHFIELD/MOFULATSHE PE: THE CONSTRUCTION OF
1KM ACCESS ROAD WITH RELATED STORMWATER IN
GREEN FIELD_PHASE 1 (MIS: 425809)**

BOOK OF TENDER DRAWINGS

JANUARY 2023



- NOTES:
1. ALL ROAD CONSTRUCTION TO BE IN ACCORDANCE WITH COLTO STANDARDIZED SPECIFICATIONS AND THE RELEVANT PROJECT SPECIFICATIONS.
 - 2.LEVELS TO BE CHECKED ON SITE BY THE CONTRACTOR AND THE ENGINEER BEFORE EXCAVATIONS START.
 - 3.CONCRETE STRENGTH TO BE 25 Mpa.
 4. ROAD CLASS 5(a) AND 5(b).
 5. ROAD SPEED 40-60km/h.
 6. ALL DIMENSIONS ARE IN mm UNLESS STATED OTHERWISE.
 7. ALL CHAINAGES ARE IN m UNLESS STATED OTHERWISE.

Drawing signed for approval
held at Engineering Aces offices

DRAWN:	T KHUNONG	ISSUED FOR TENDER	
DESIGNED:	T KHUNONG	OS MOTHIBI Pr Tech Eng - 201570157	DATE
CHECKED:	SS MNTAMBO		
APPROVED:	OS MOTHIBI	SCALE: 1:1000	

AMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
TO	12/01/2023	TENDER DRAWINGS	OS MOTHIBI

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MOHOKARE LOCAL MUNICIPALITY

SMITHFIELD/MOFULATSHE PE: THE CONSTRUCTION OF 1KM ACCESS ROAD WITH RELATED STORMWATER IN GREEN FIELD_PHASE 1 (MIS: 425809)

LAYOUT: LOCALITY PLAN AND LIST OF DRAWINGS

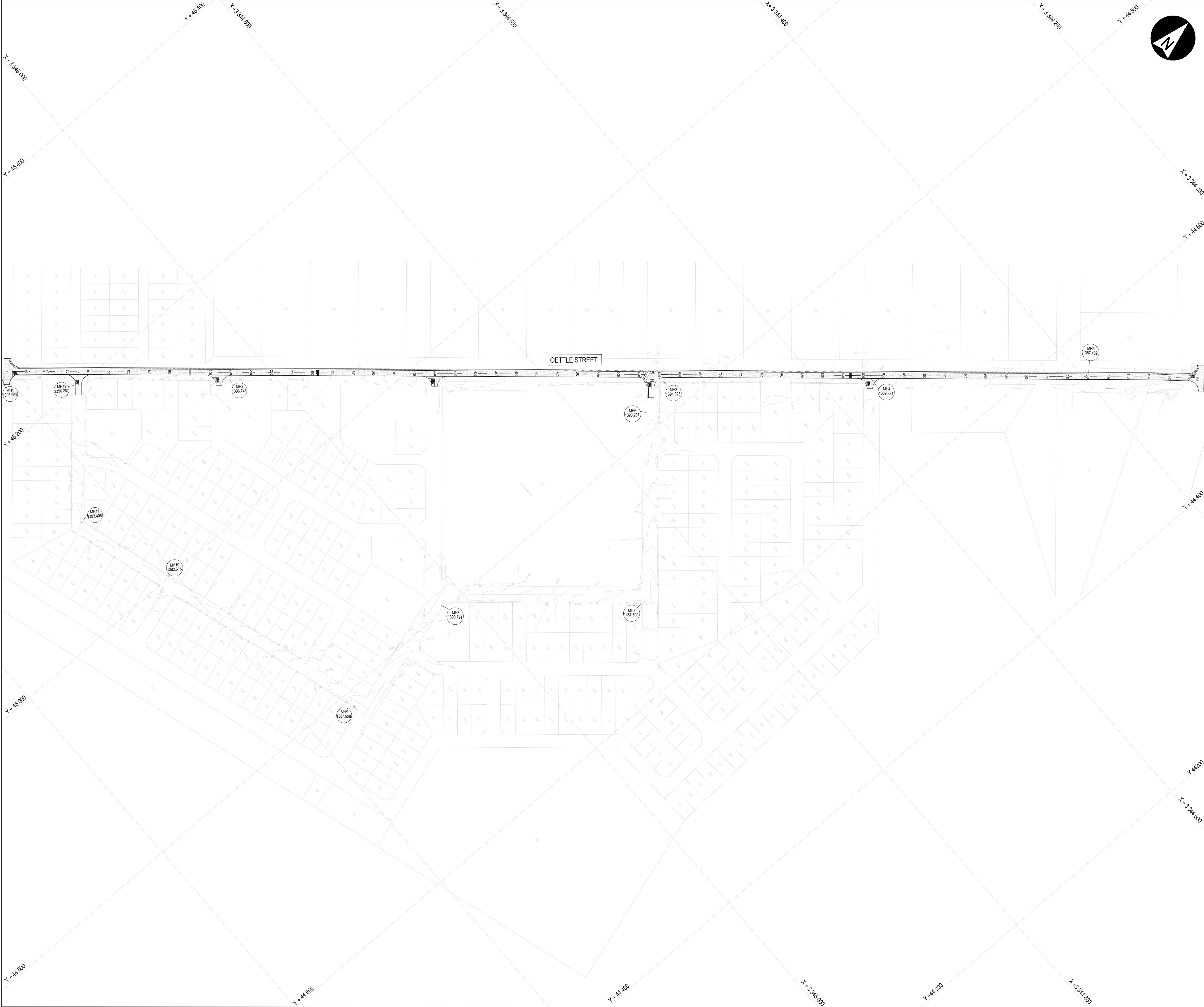
DRAWING NO.
1087-CIV-DRG-100

REVISION
T0

LIST OF DRAWINGS

1087-CIV-DRG-100 : LAYOUT: LOCALITY PLAN & LIST OF DRAWINGS
1087-CIV-DRG-101 : LAYOUT : SITE LAYOUT
1087-CIV-DRG-102 : LAYOUT & LONG-SECTION: ROAD 01(CH0-CH580)m
1087-CIV-DRG-103 : LAYOUT & LONG-SECTION: ROAD 01(CH580-CH1167)m

1087-CIV-DRG-400 : DETAIL: ROAD CROSSING & STREET CROSS SECTION
1087-CIV-DRG-401 : DETAIL: DRAIN & ROAD PAVING
1087-CIV-DRG-402 : DETAIL: PEDESTRIAN CROSSING & SPEED HUMP
1087-CIV-DRG-403 : DETAIL: SPEED HUMP & PEDESTRIAN CROSSING
1087-CIV-DRG-404 : DETAIL: BELMOUTH & STREET SIGNS
1087-CIV-DRG-405 : DETAIL:STREET SIGNS



LEGEND:	
PAVED ROAD	
FENCE	
BENCHMARKS	
EXISTING ELECTRICITY POLE	
CONCRETE EDGE BEAM	
ROAD SIGN WITH CODE	

- NOTES:
1. ALL ROAD CONSTRUCTION TO BE IN ACCORDANCE WITH COLTO STANDARDIZED SPECIFICATIONS AND THE RELEVANT PROJECT SPECIFICATIONS.
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APPROVED:	OS MOTHIBI	SCALE: 1:1750	

AMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	12/01/2023	TENDER DRAWINGS	OS MOTHIBI

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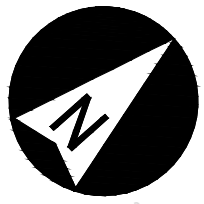
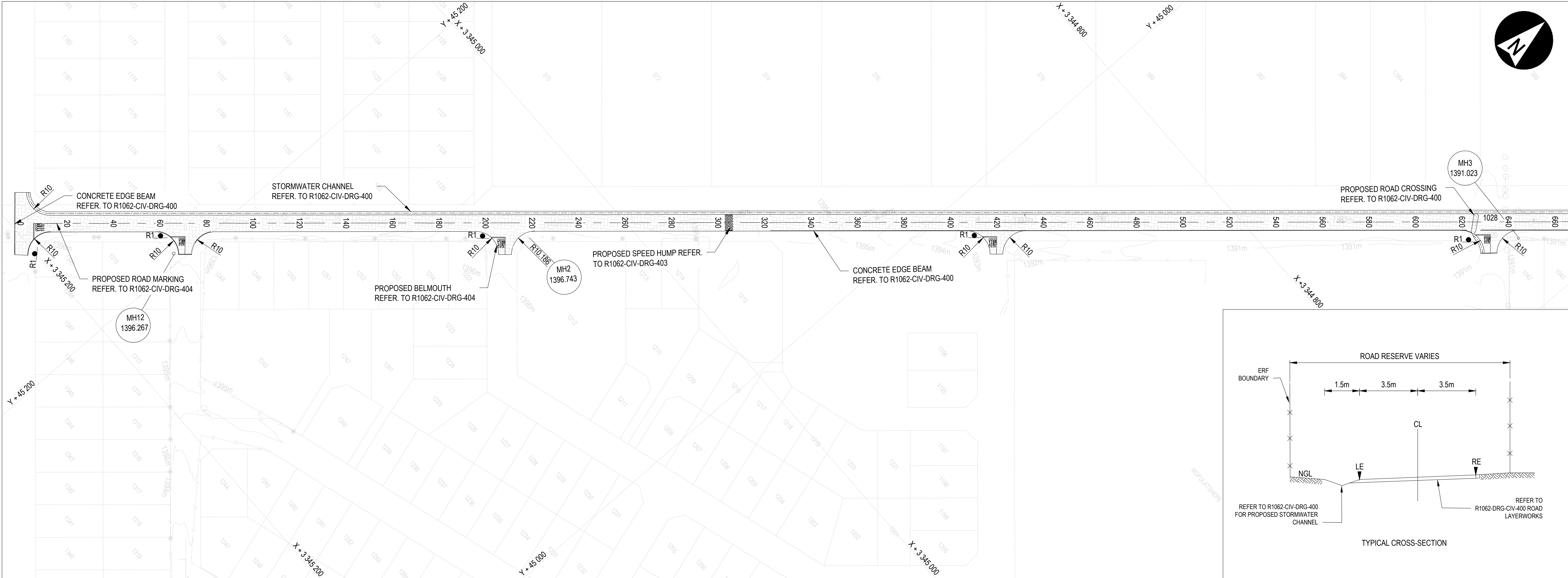
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MOHOKARE LOCAL MUNICIPALITY

SMITHFIELD/MOFULATSHE PE: THE
CONSTRUCTION OF 1KM ACCESS
ROAD WITH RELATED STORMWATER
IN GREEN FIELD_PHASE 1 (MIS:
425809)

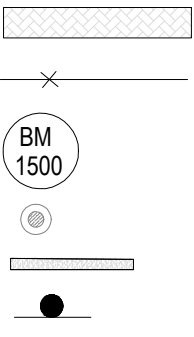
LAYOUT: SITE LAYOUT

DRAWING NO.	REVISION
1087-CIV-DRG-101	T0



LEGEND:

- PAVED ROAD
- FENCE
- BENCHMARKS
- EXISTING ELECTRICITY POLE
- CONCRETE EDGE BEAM
- ROAD SIGN WITH CODE



NOTES:

- ALL ROAD CONSTRUCTION TO BE IN ACCORDANCE WITH COLTO STANDARDIZED SPECIFICATIONS AND THE RELEVANT PROJECT SPECIFICATIONS.
- LEVELS TO BE CHECKED ON SITE BY THE CONTRACTOR AND THE ENGINEER BEFORE EXCAVATIONS START.
- CONCRETE STRENGTH TO BE 25 Mpa.
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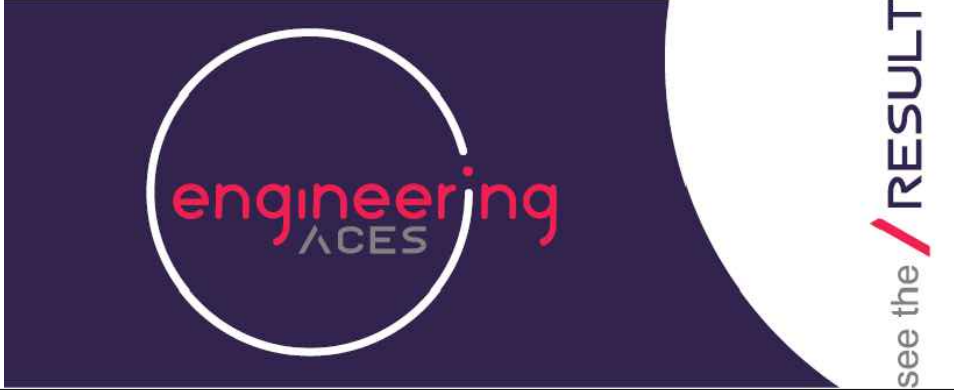
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SMITHFIELD/MOFULATSHE PE: THE
CONSTRUCTION OF 1KM ACCESS
ROAD WITH RELATED STORMWATER
IN GREEN FIELD_PHASE 1 (MIS:
425809)

LAYOUT: LAYOUT AND LONGSECTION
ROAD 1 CH(0 - 580)

DRAWING NO.
1087-CIV-DRG-102

REVISION
T0

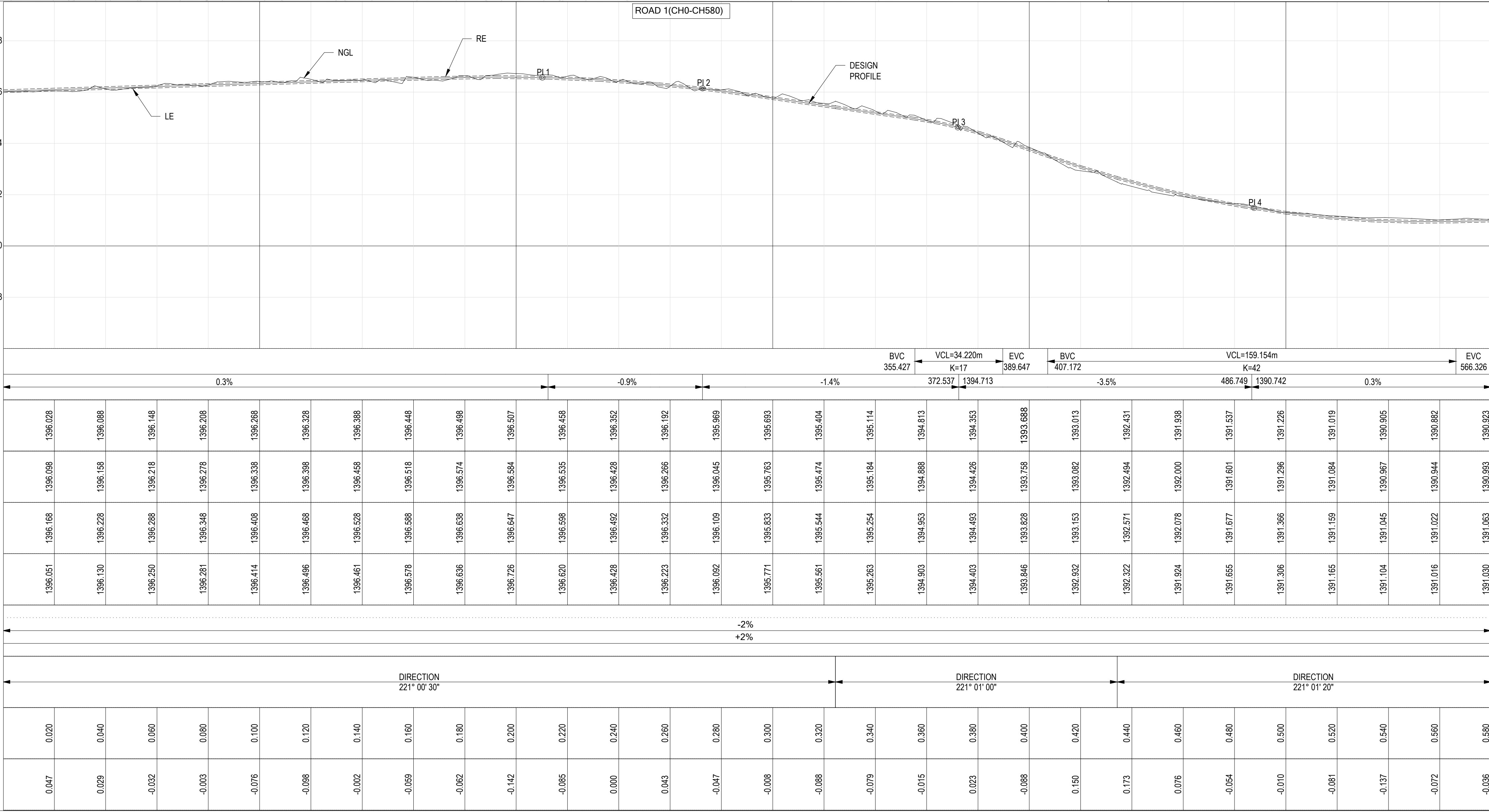
ROAD 1: OETTL ST

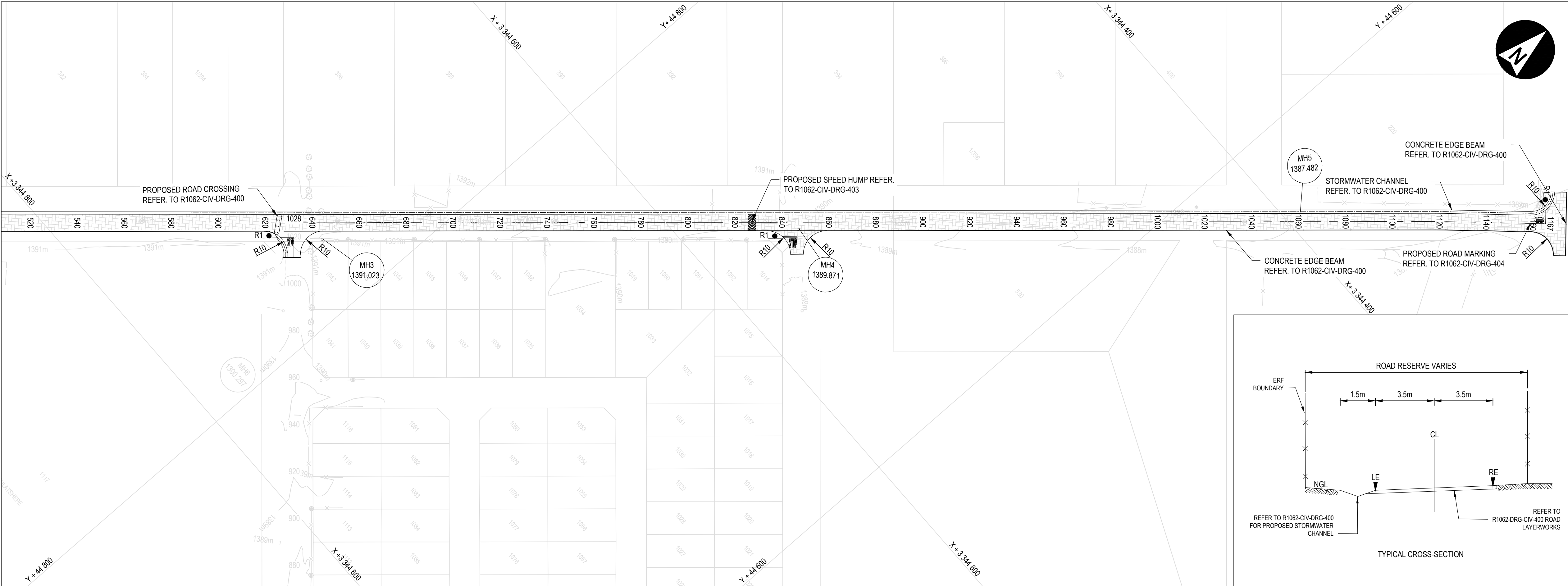
SCALE VERT 1:100
SCALE HOR 1:1000

DATUM : 1386 m

VERTICAL PROFILE
GRADES

FINAL DESIGN ROAD LEVELS	LEFT EDGE (LE)
	CENTRE LINE (CL)
	RIGHT EDGE (RE)
GROUND LEVELS ON CL	
SUPERELEVATION LEFT RIGHT ——	
HORIZONTAL ALIGNMENT	
DISTANCE (km)	
CUT / FILL	





LEGEND:

PAVED ROAD

FENCE

BENCHMARK

EXISTING ELECTRICITY POLE

CONCRETE EDGE BEAM

ROAD SIGN WITH CODE

NOTES:

1. ALL ROAD CONSTRUCTION TO BE IN ACCORDANCE WITH COLTO STANDARDIZED SPECIFICATIONS AND THE RELEVANT PROJECT SPECIFICATIONS.

2. LEVELS TO BE CHECKED ON SITE BY THE CONTRACTOR AND THE ENGINEER BEFORE EXCAVATIONS START.

3. CONCRETE STRENGTH TO BE 25 Mpa.

4. ROAD CLASS 5(a) AND 5(b).

5. ROAD SPEED 40-60km/h.

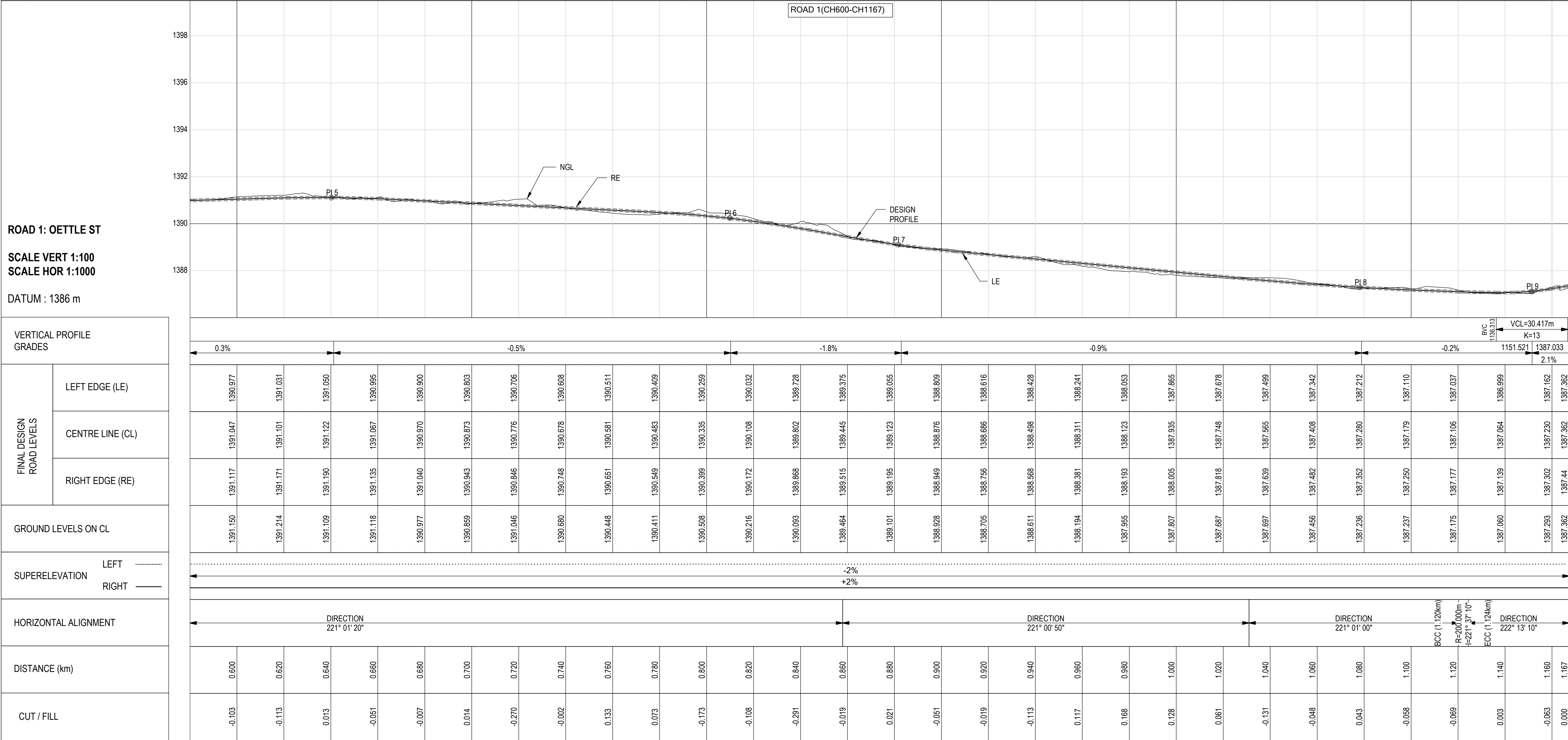
6. ALL DIMENSIONS ARE IN mm UNLESS STATED OTHERWISE.

7. ALL CHAINAGES ARE IN m UNLESS STATED OTHERWISE.

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APPROVED:	OS MOTHIBI	SCALE: 1:1000	

AMENDMENTS			
REV	DATE	DESCRIPTION	APPROVED
T0	12/01/2023	TENDER DRAWINGS	OS MOTHIBI



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engineering ACES

see the / RESULT

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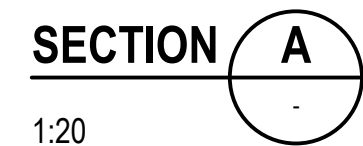
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SMITHFIELD/MOFULATSHE PE: THE CONSTRUCTION OF 1KM ACCESS ROAD WITH RELATED STORMWATER IN GREEN FIELD_PHASE 1 (MIS: 425809)

LAYOUT: LAYOUT AND LONGSECTION ROAD 1 CH(580 - 1167)

DRAWING NO.	REVISION
1087-CIV-DRG-103	T0



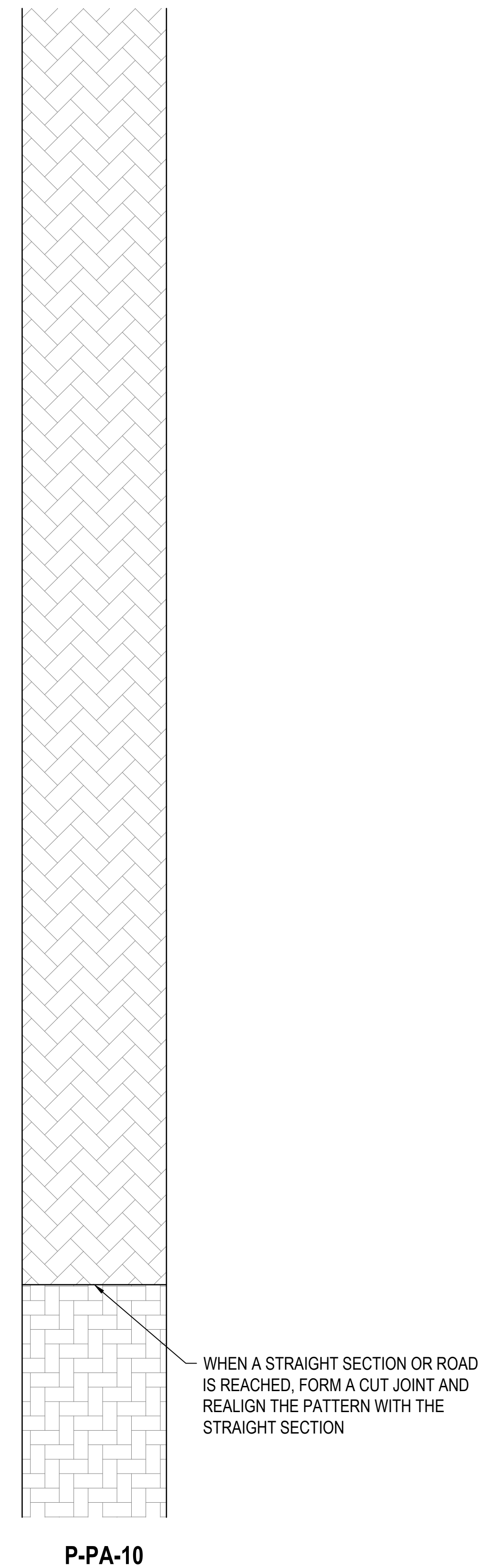
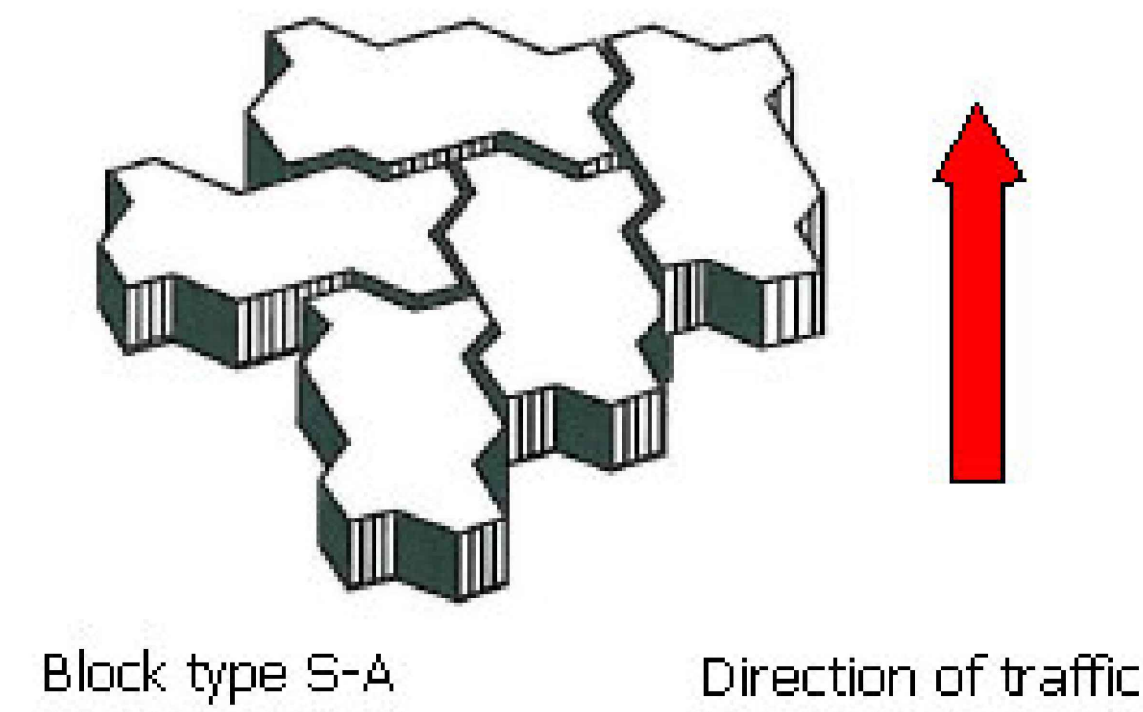
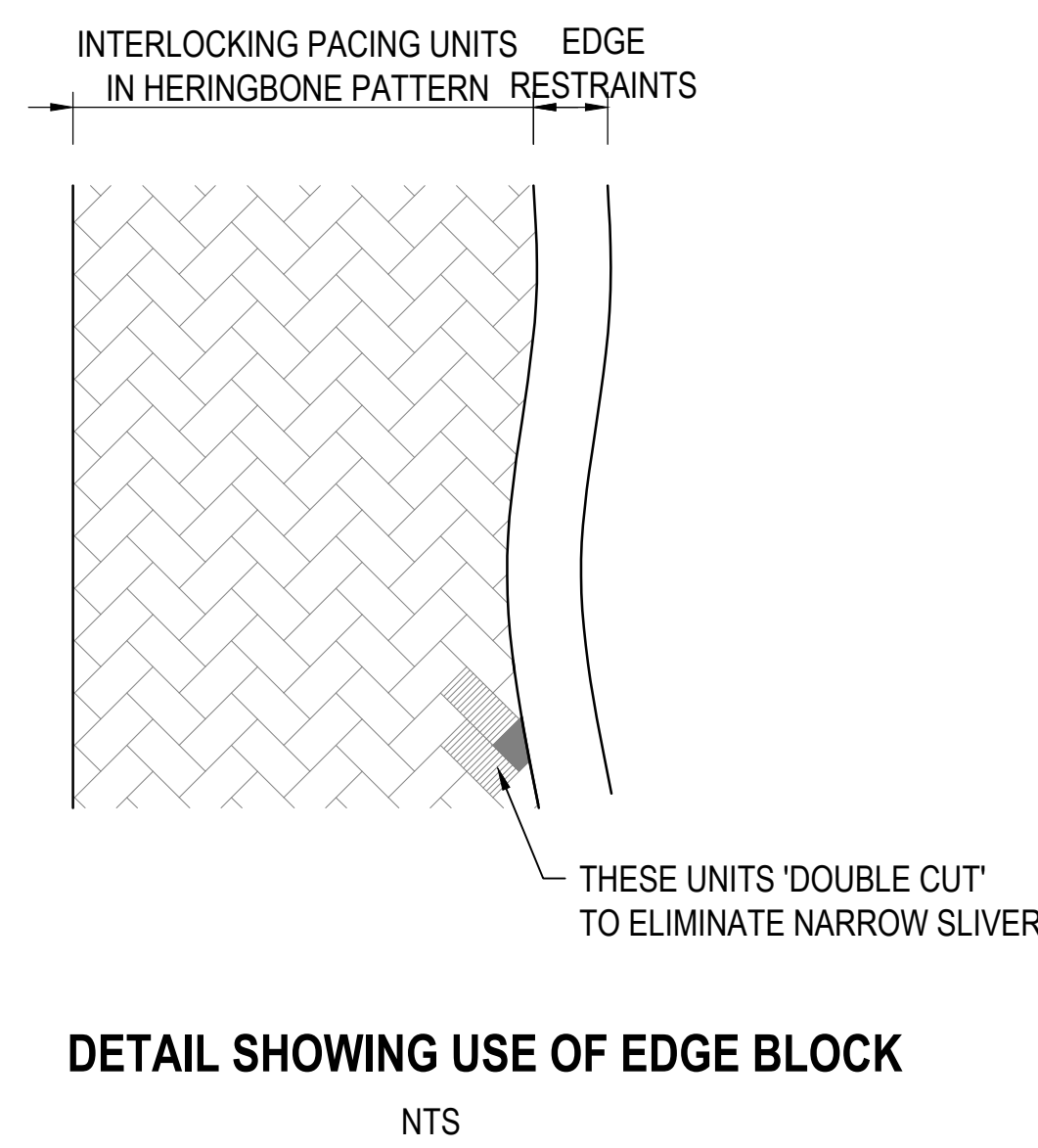
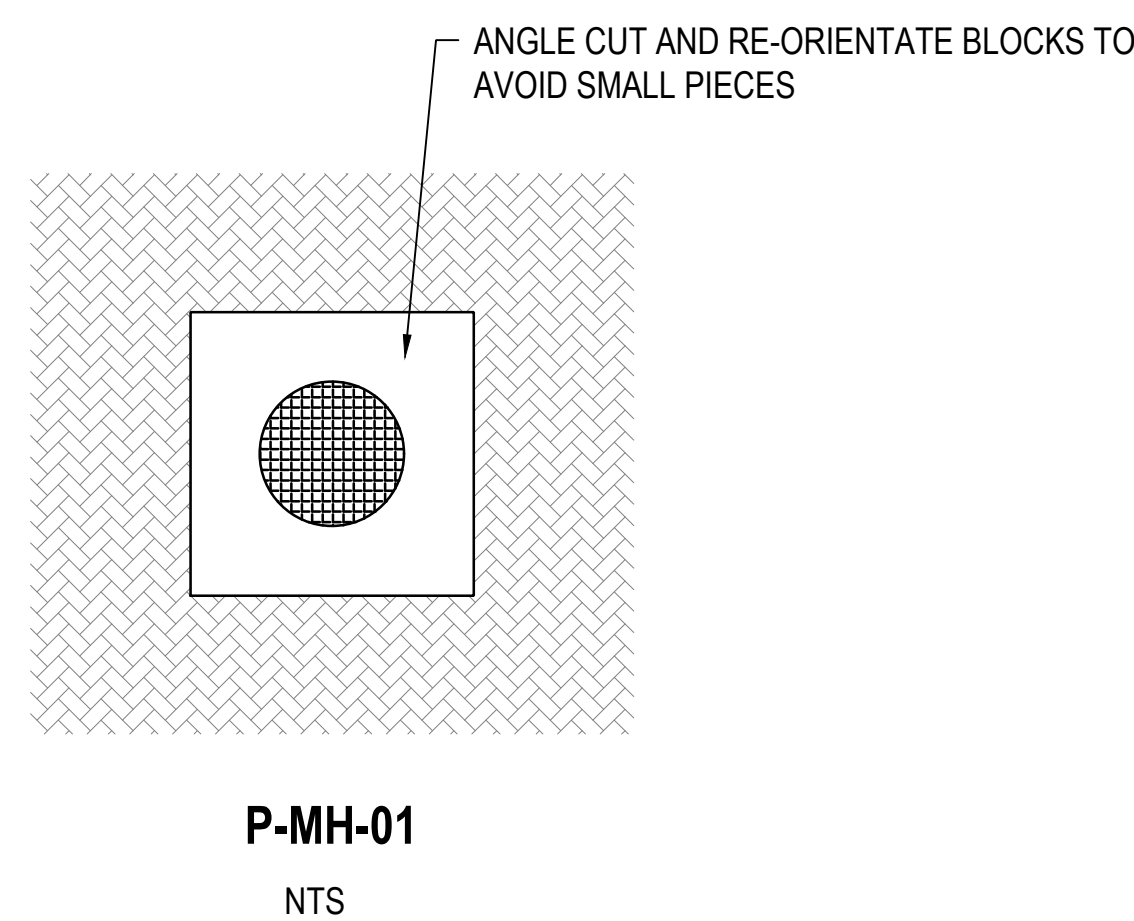
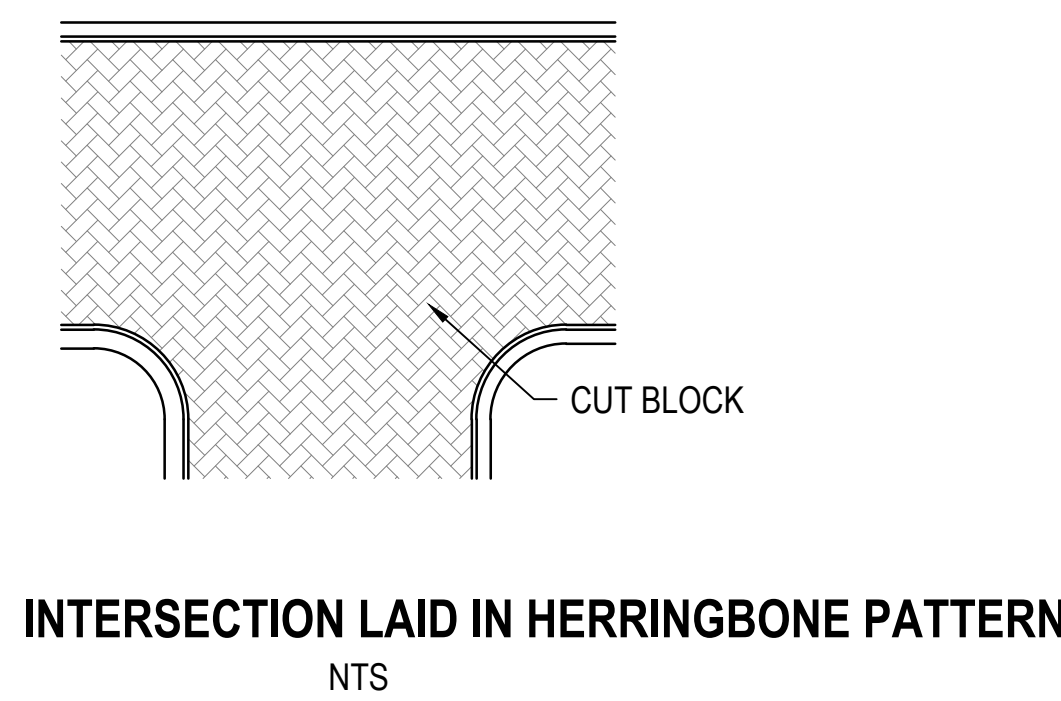
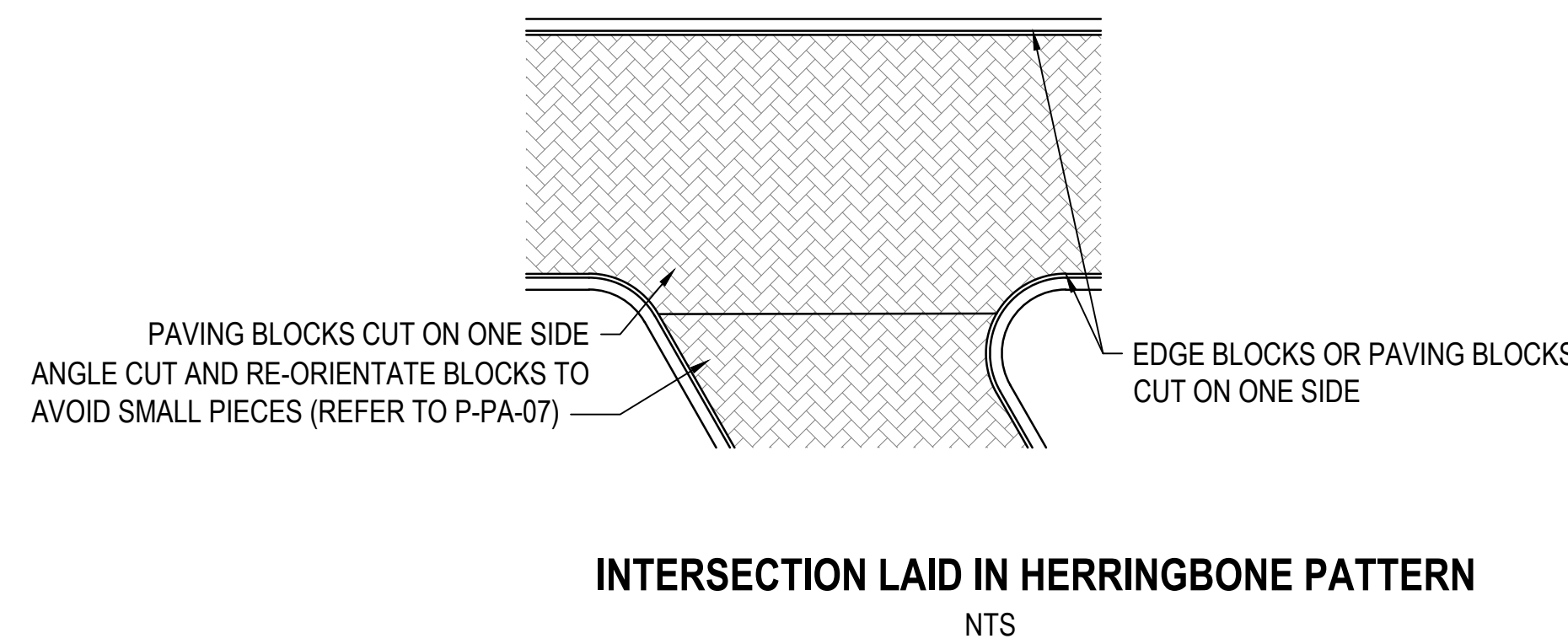
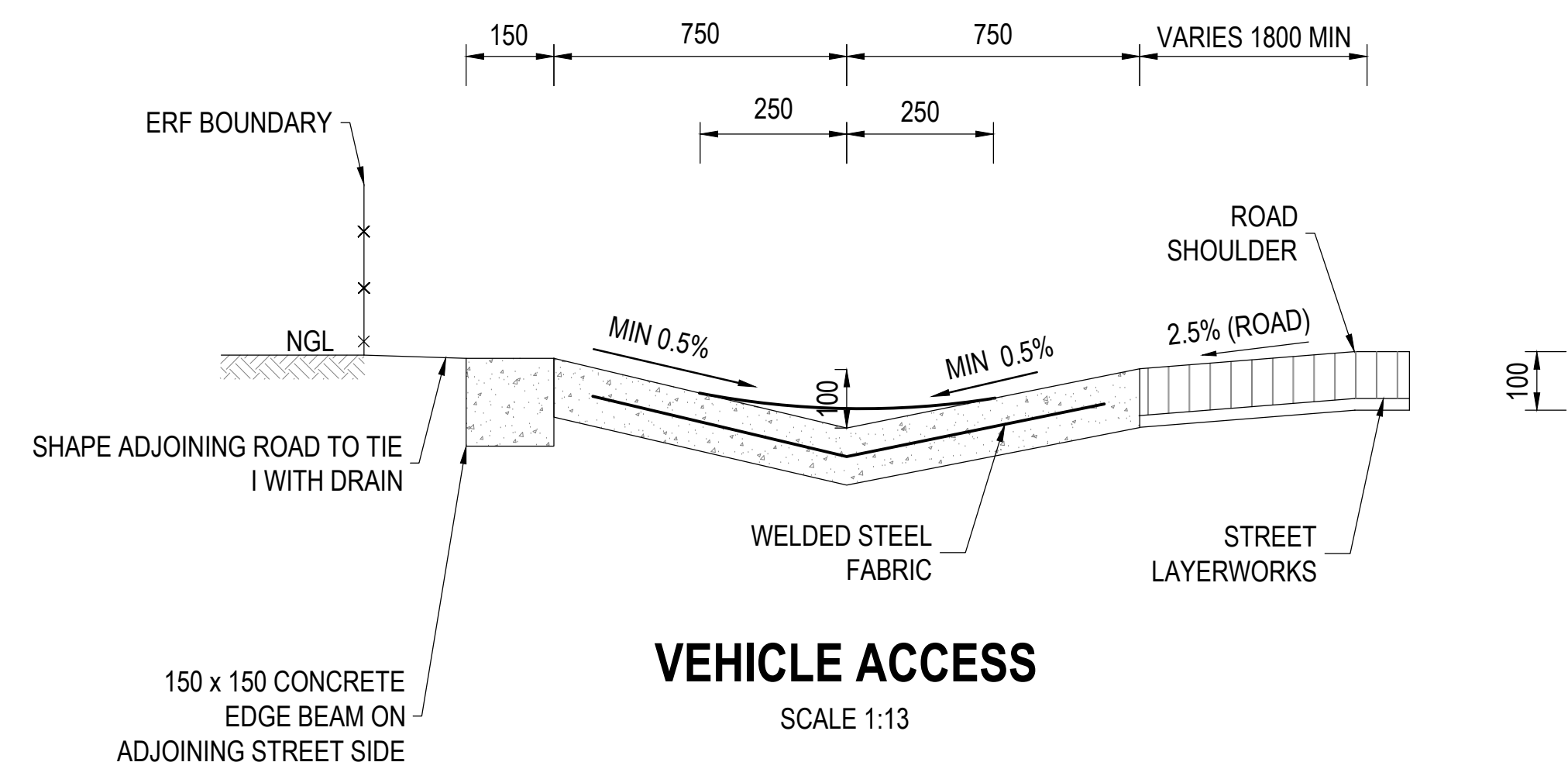
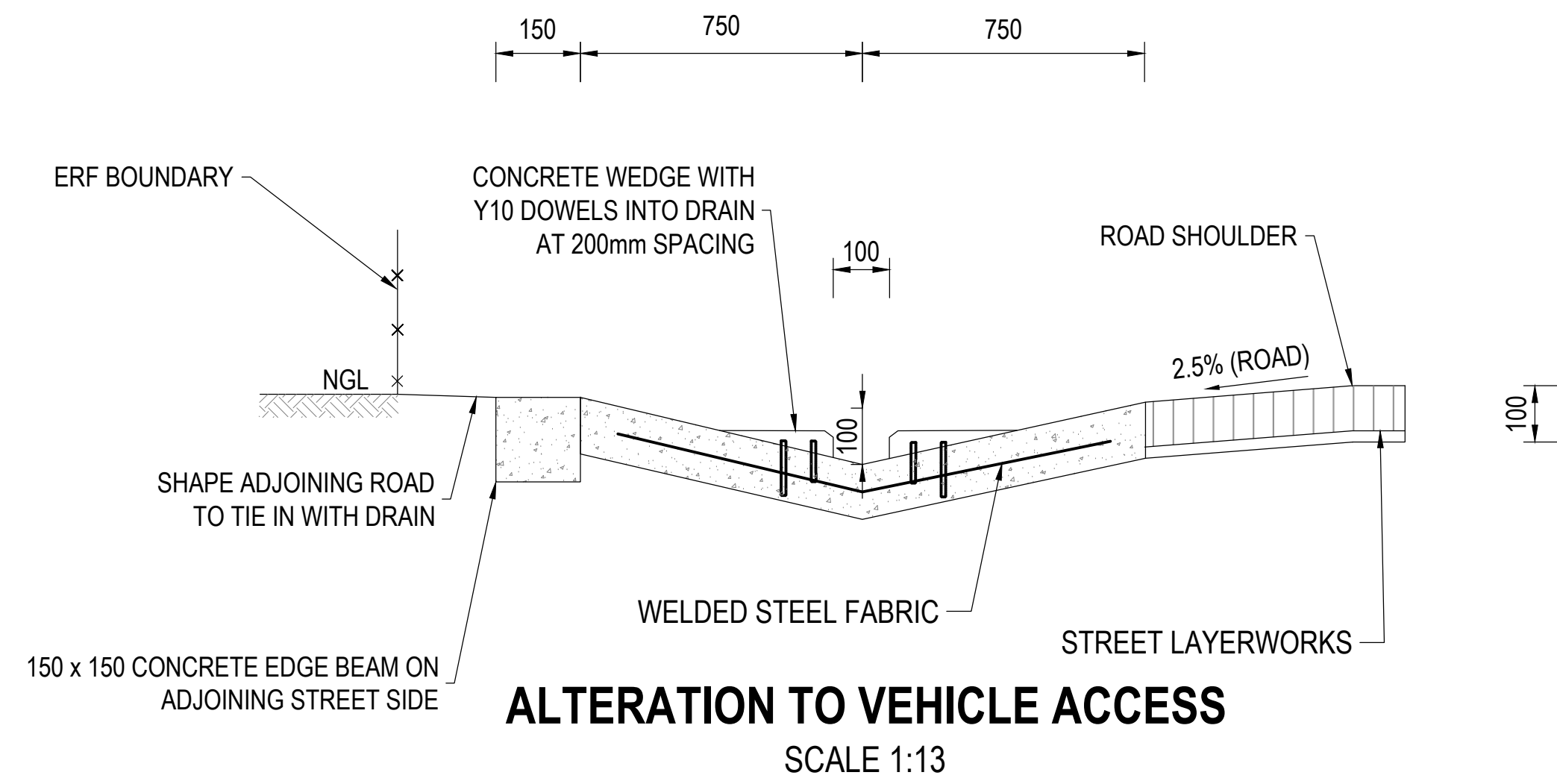
1. CONCRETE CHANNEL CASTING 2.5m LENGTHS
2. ENSURE THAT STEEL MESH IS PLACED AS SHOW

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[illegible]

DETAILS: ROAD CROSSING & STREET CROSS SECTION DETAIL

DRAWING NO. 1087-CIV-DRG-400	REVISION TO
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- NOTES:**
1. POSITION AND TYPE TO BE SPECIFIED BY THE ENGINEER.
 2. ALL CONCRETE TO BE CLASS 29/19
 3. CAST IN SITU CONCRETE LINING MUST BE PROVIDED WITH A CONTRACTION JOINT EVERY 2m AND AN EXPANSION JOINT EVERY 30m

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AMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
TO	12/01/2023	TENDER DRAWINGS	OS MOTHIBI



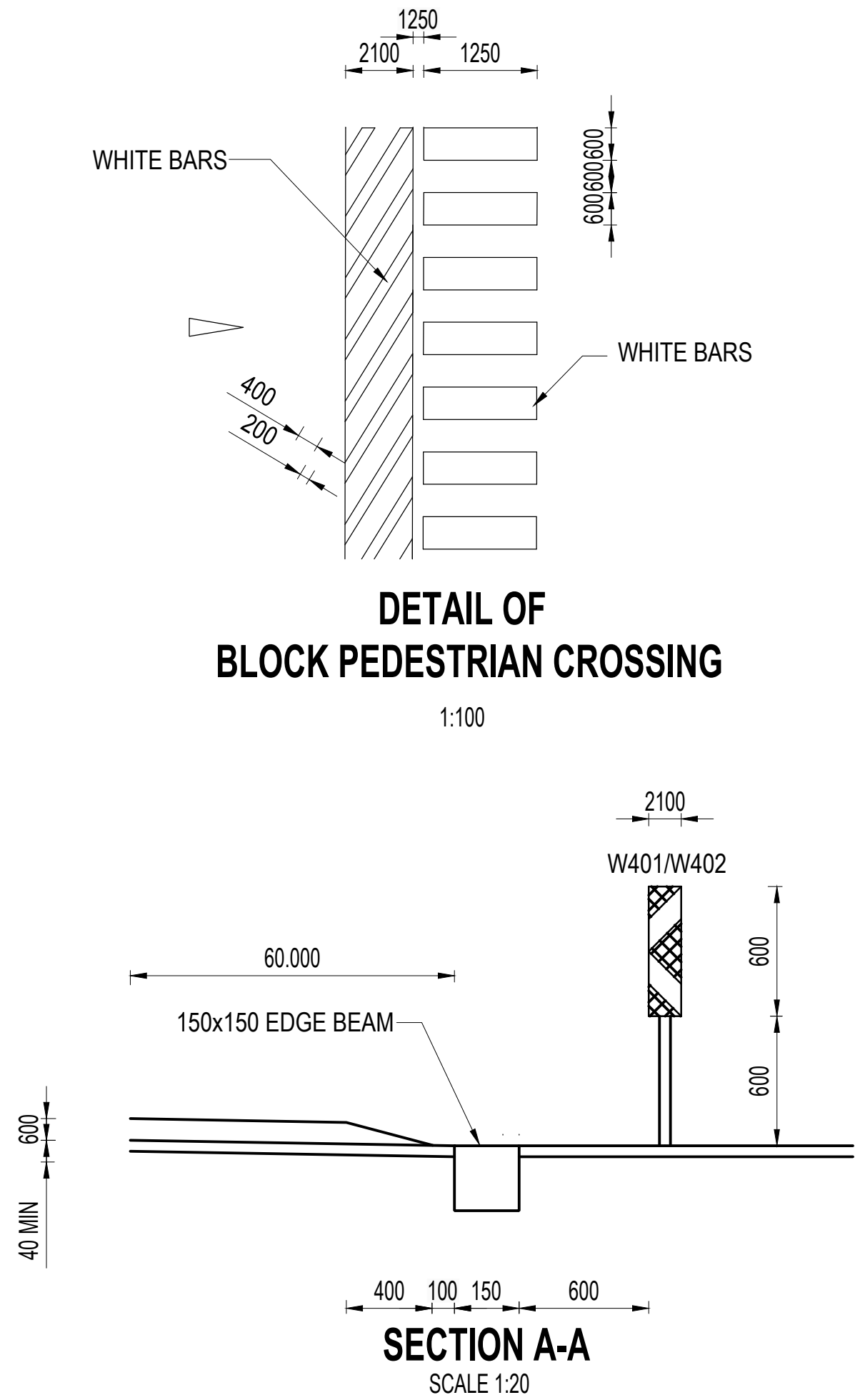
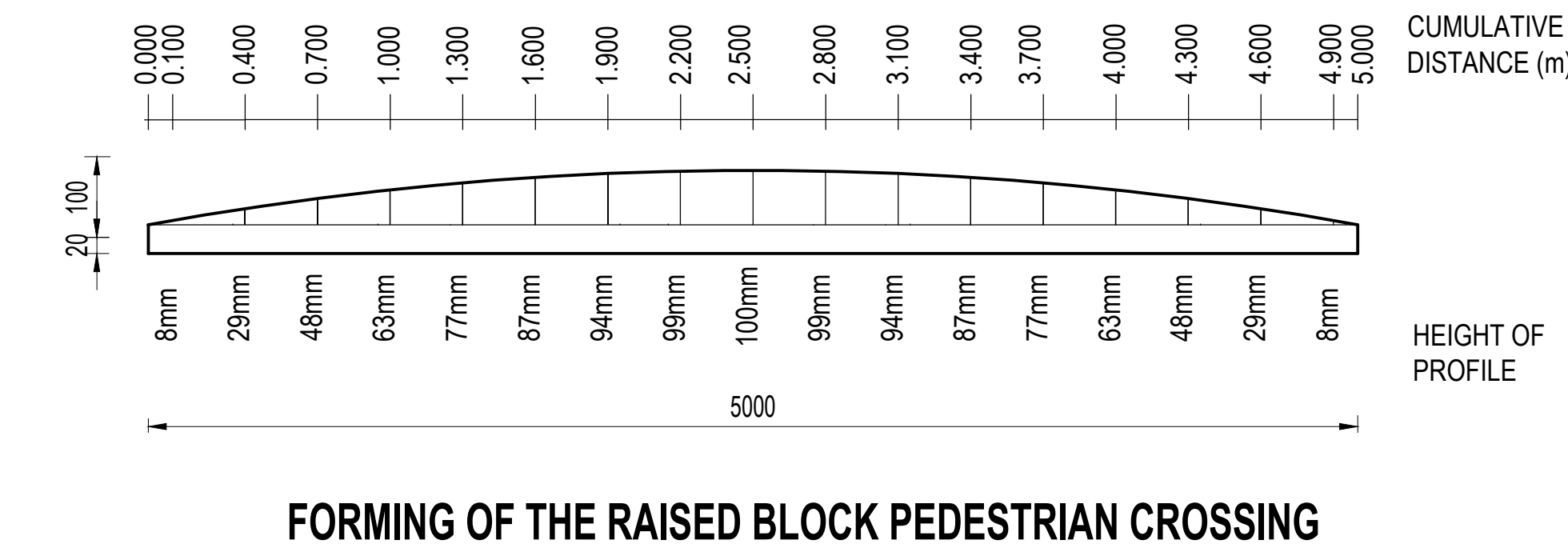
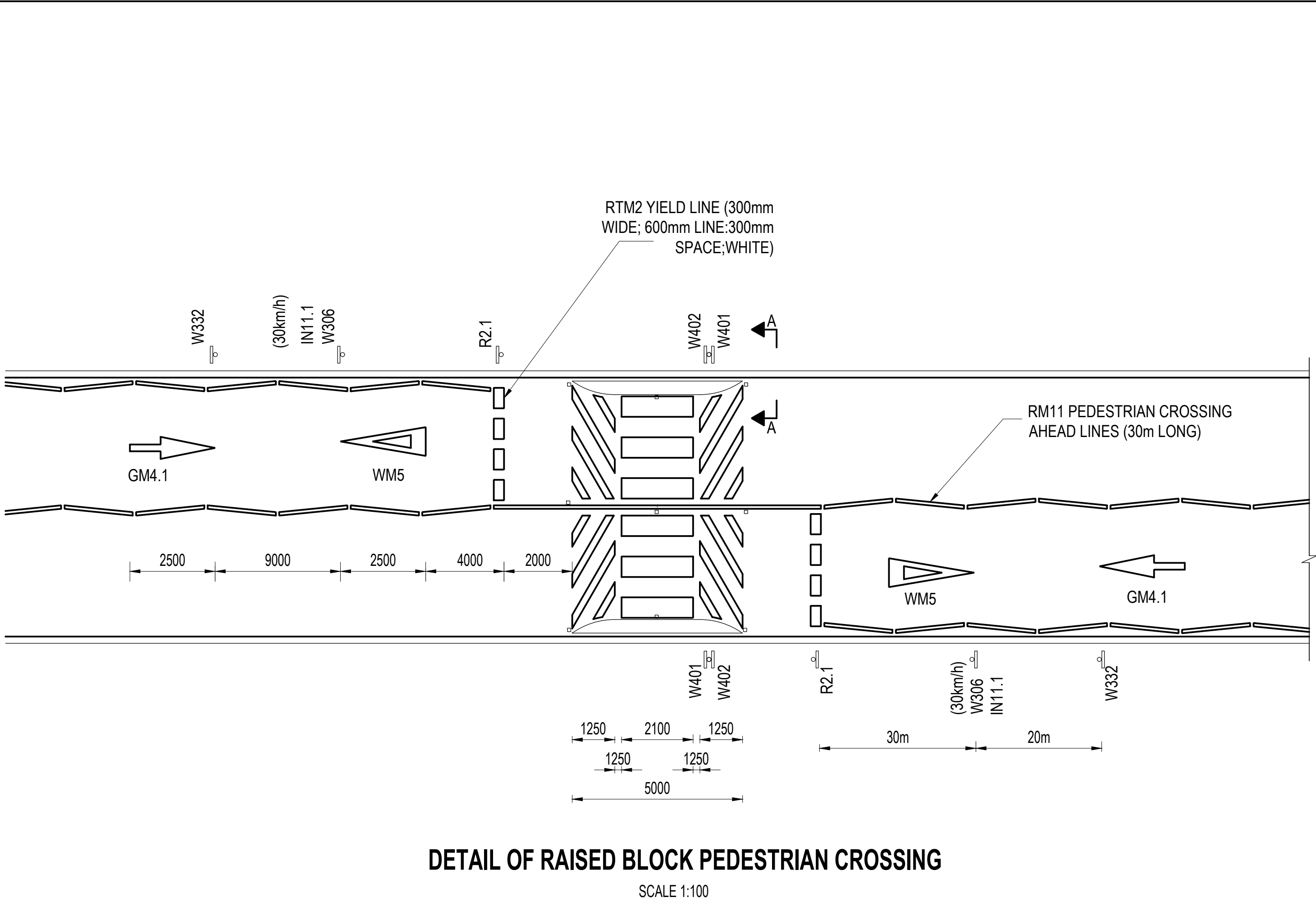
MOHOKARE LOCAL MUNICIPALITY

SMITHFIELD/MOFULATSHE PE: THE
CONSTRUCTION OF 1KM ACCESS
ROAD WITH RELATED STORMWATER
IN GREEN FIELD_PHASE 1 (MIS:
425809)

DETAILS: DRAIN & ROAD PAVING
DETAIL

DRAWING NO.
1087-CIV-DRG-401

REVISION
TO



- NOTES :**
1. ALL ROAD SIGNS AND MARKINGS SHALL COMPLY WITH THE LOCAL AUTHORITY'S ROAD TRAFFIC SIGNS MANUAL.
 2. ALL ROAD MARKINGS SHALL COMPLY WITH SABS 731-1 FOR TYPE 1 OR 2 PAINT WITH CLASS 1 DRYING TIME CLASSIFICATION. THE MARKINGS SHALL BE REFLECTORIZED BY APPLYING GLASS BEADS AT A RATE OF LESS THAN 0.34kg/m².
 3. THE R201 SPEED LIMIT SIGN BEYOND THE INTERSECTION SHALL AGREE WITH THE SPEED LIMIT SET ON THE SUBSEQUENT SECTION OF THE ROAD.
 4. THE SETTING OUT AND PREMARKING OF THE LINES AND SYMBOLS SHALL BE APPROVED PRIOR TO ANY FINAL MARKINGS BE APPLIED.
- SPEED HUMPS**
1. THE ROAD MARKINGS MUST BE DONE WITHIN 24 HOURS OF THE COMPLETION OF THE ASPHALT WORK.
 2. THE FINAL POSITION OF THE SPEED HUMPS SHALL BE DETERMINED BY THE ENGINEER ON SITE.
 3. THE POSITIONS OF THE ROAD SIGNS MAY VARY DUE TO THE SITE CONDITIONS.
- 3.5m SPEED HUMP GUIDELINES**
- USE WHERE:
1. STREETS ARE CLASSIFIED AS LOCAL.
 2. NO MORE THAN 2 TRAVEL LANES OR 12m PAVEMENT WIDTH.
 3. HORIZONTAL CURVE OF 90m RADIUS OR MORE.
 4. VERTICAL CURVE WITH ADEQUATE STOPPING DISTANCE.
 5. GRADE OF 8% OR LESS.
 6. POSTED SPEED OF 50km/h OR LESS.
 7. NO MORE THAN 5% LONG WHEEL BASE VEHICLES.
 8. NOT ON PRIMARY EMERGENCY RESPONSE.
 9. MAJORITY OF RESIDENTS SUPPORT.
 10. THE 75mm HIGH SPEED HUMPS ARE RECOMMENDED. AS THE 100mm HIGH SPEED HUMPS ARE EXPERIENCED TO BE TOO HARSH FOR MOST CONDITIONS.
 11. 85 PERCENTILE SPEED OF 25-30km/h.
 12. SPACED AT NOT LESS THAN 60-75m.
- 5m SPEED HUMP GUIDELINES**
- USE WHERE:
1. 85 PERCENTILE SPEED OF 40-50km/h.
 2. SPEED LIMITS OF OVER 50km/h.
 3. ON BUS AND HEAVY VEHICLE ROUTES.
 4. ROADS CARRYING UP TO 6000 VPD.
 5. SPACED AT NOT LESS THAN 120-140m.
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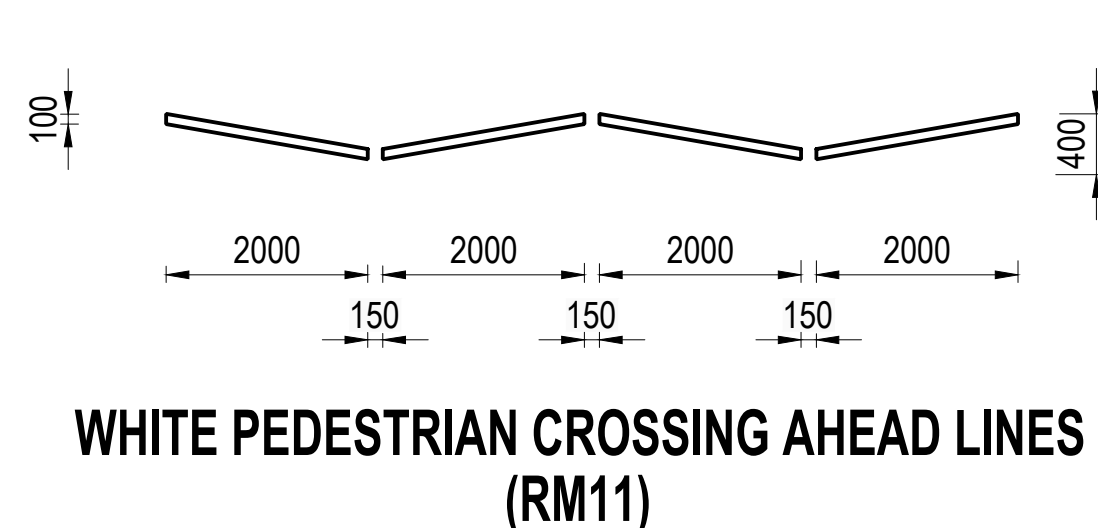
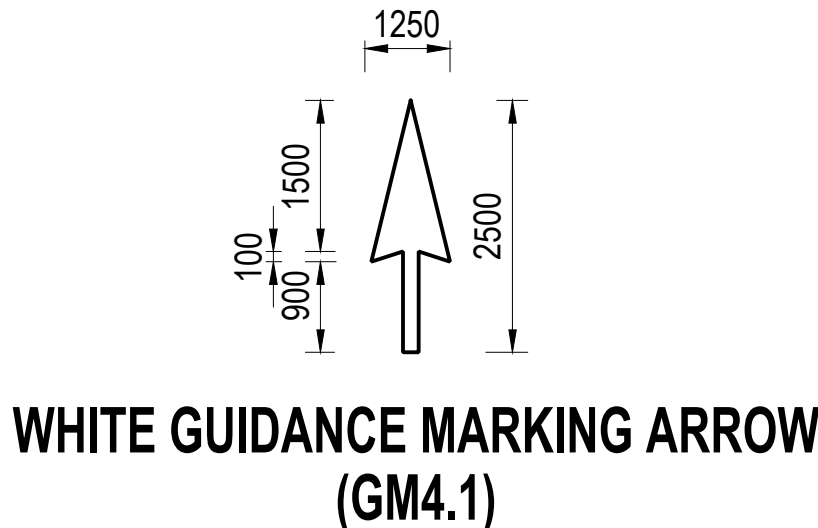
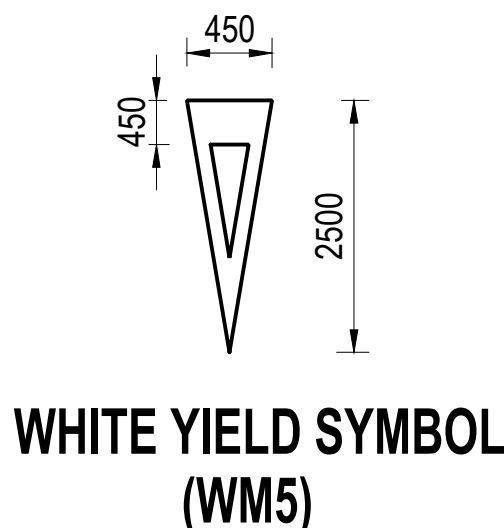
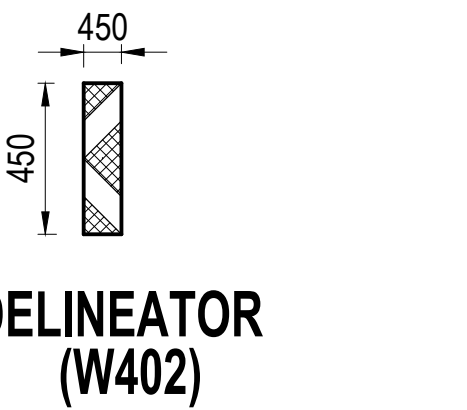
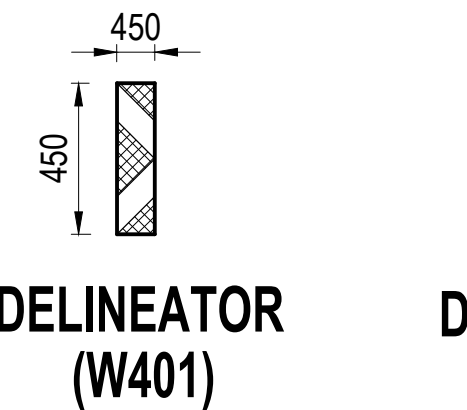
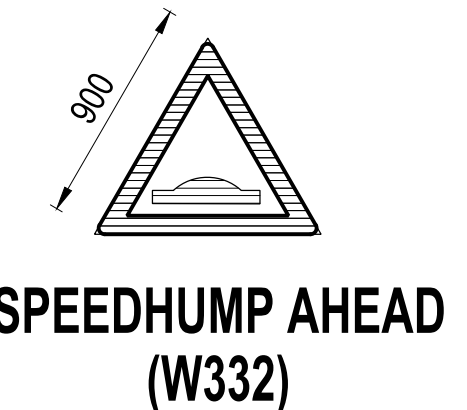
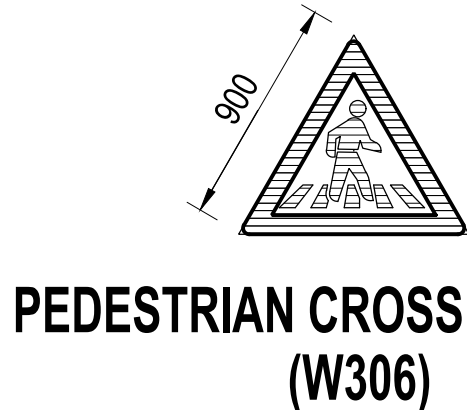
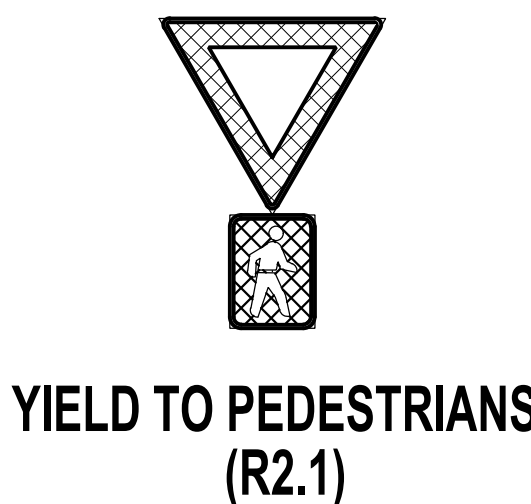
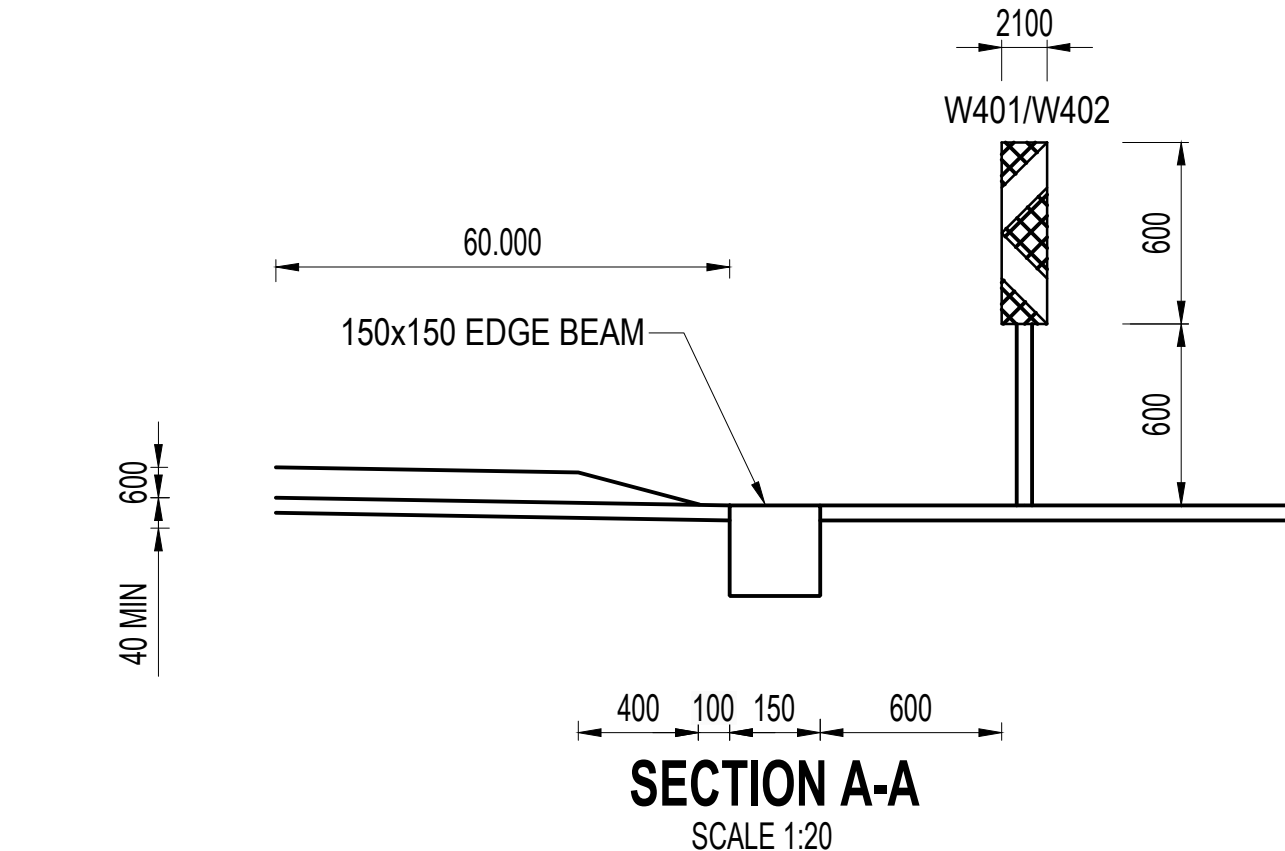
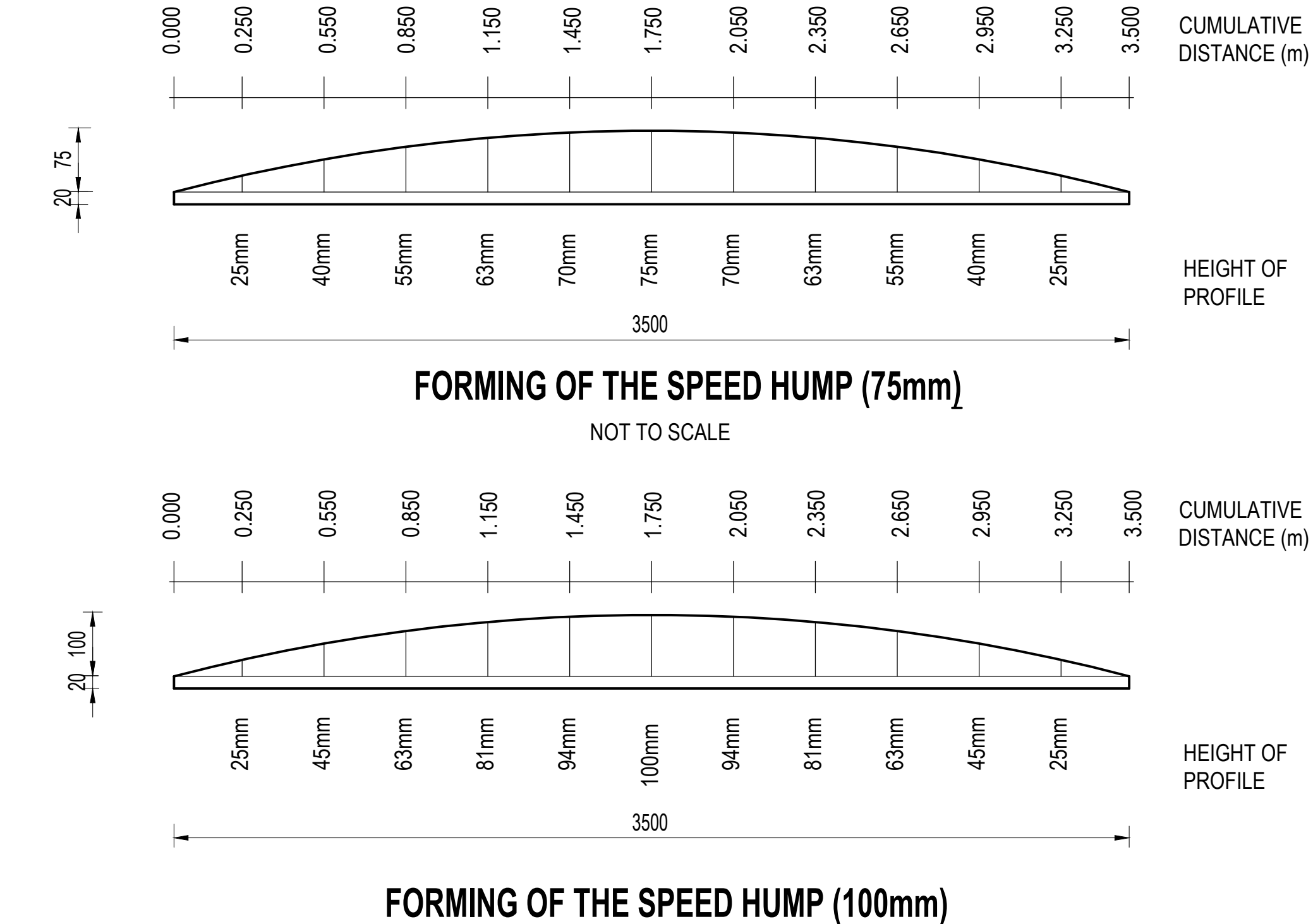
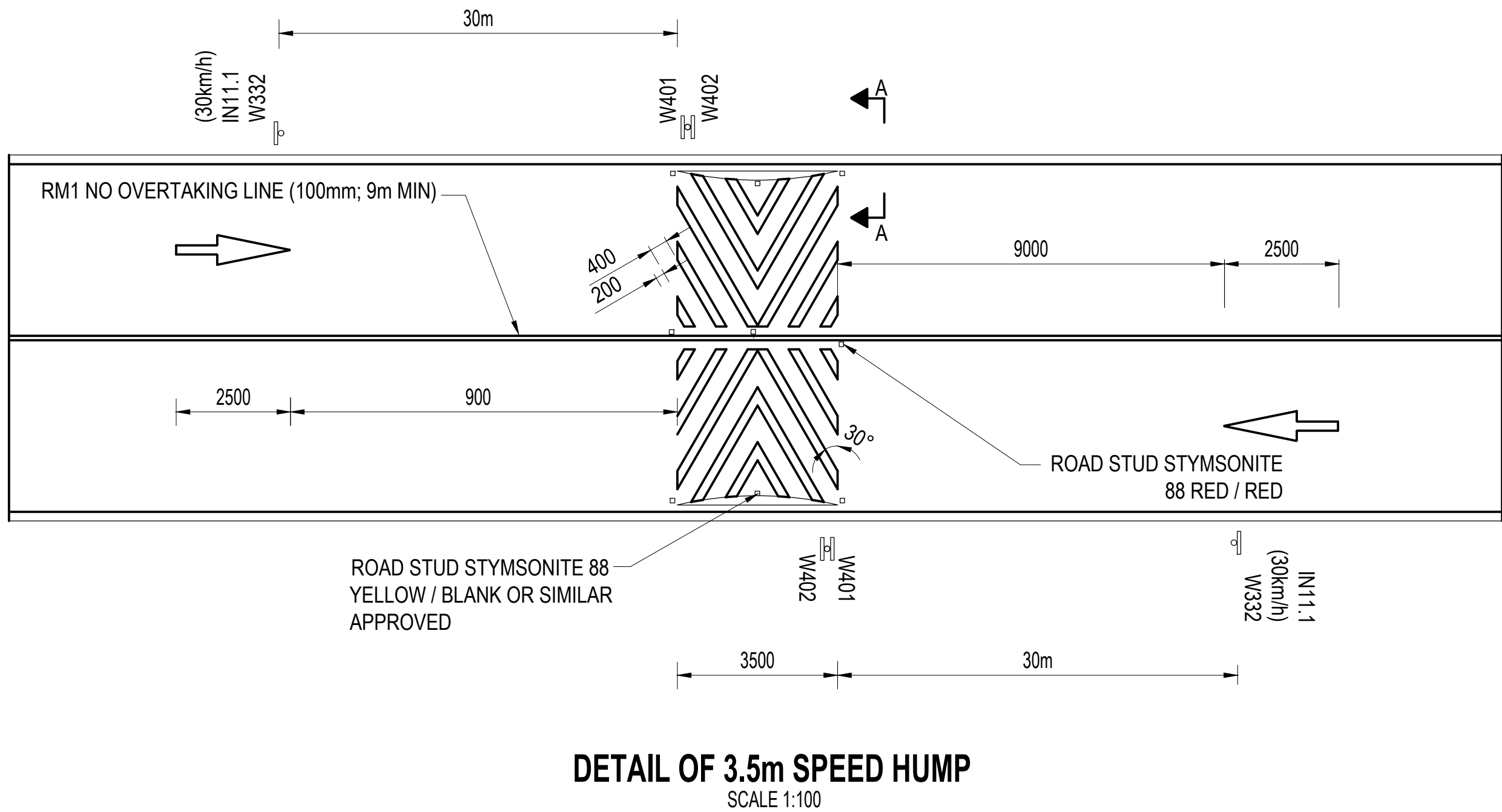


MOHOKARE LOCAL MUNICIPALITY

SMITHFIELD/MOFULATSHE PE: THE CONSTRUCTION OF 1KM ACCESS ROAD WITH RELATED STORMWATER IN GREEN FIELD_PHASE 1 (MIS: 425809)

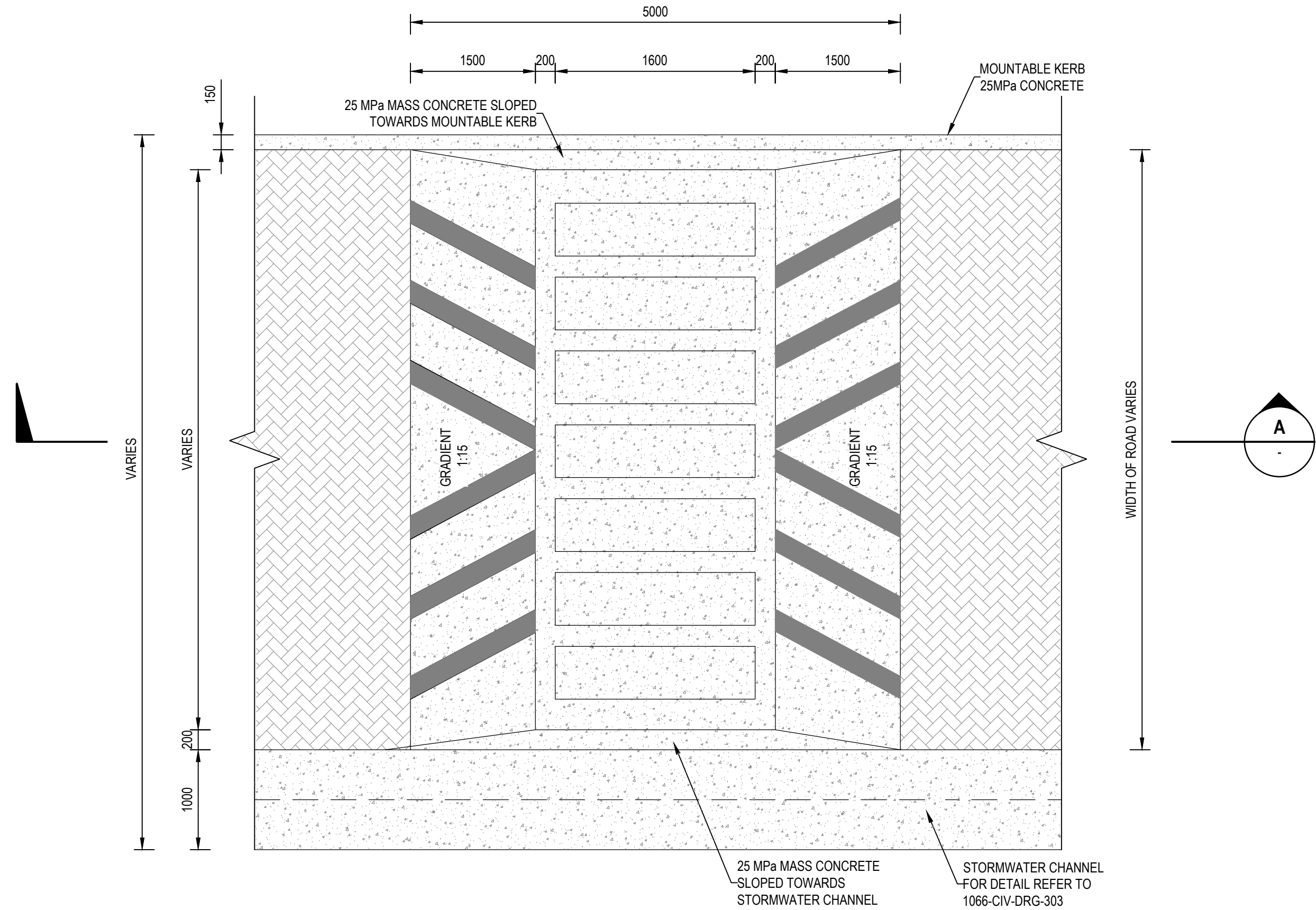
DETAILS: PEDESTRIAN CROSSING & SPEED HUMP

DRAWING NO.	REVISION
1087-CIV-DRG-402	TO

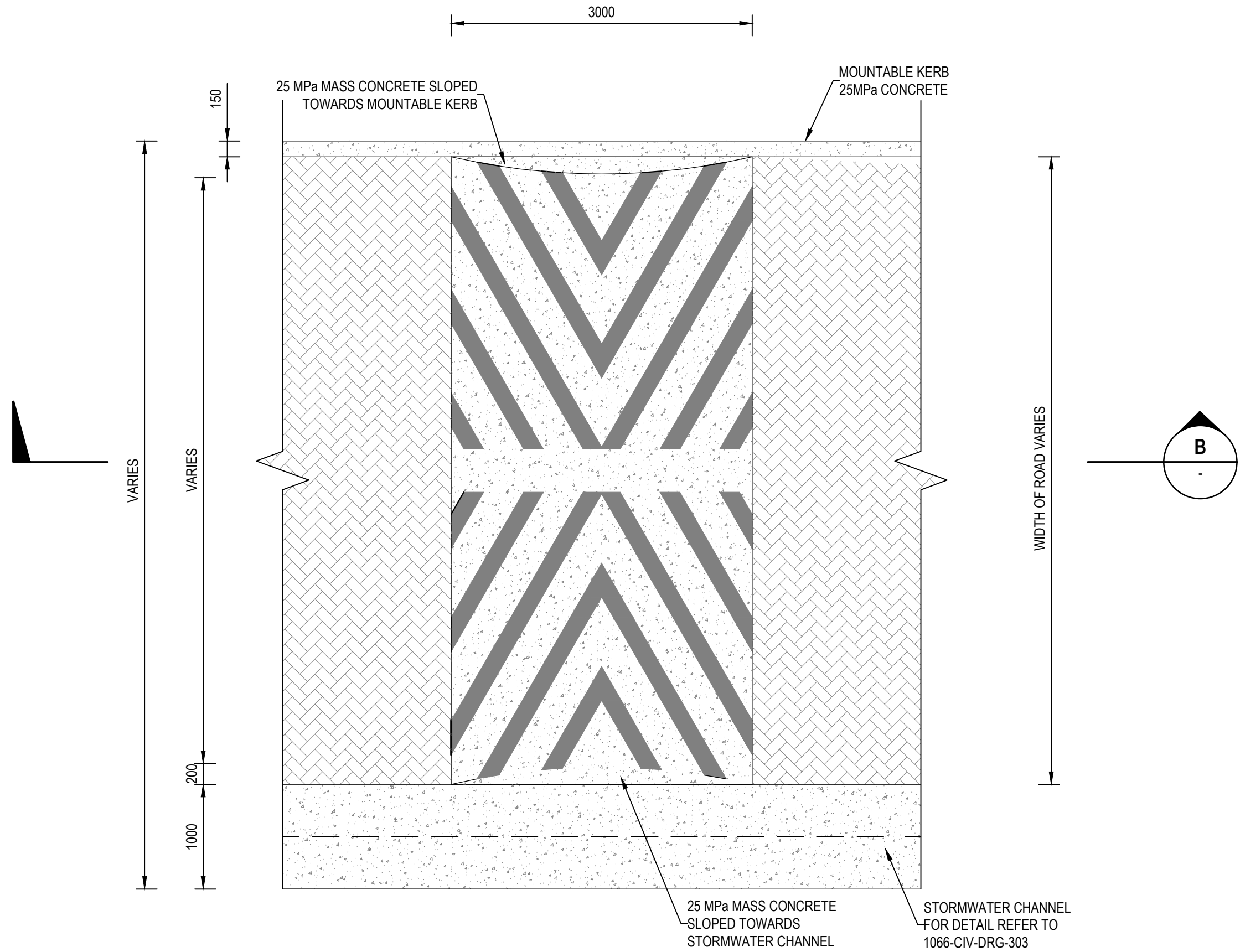


SCALE 1:1

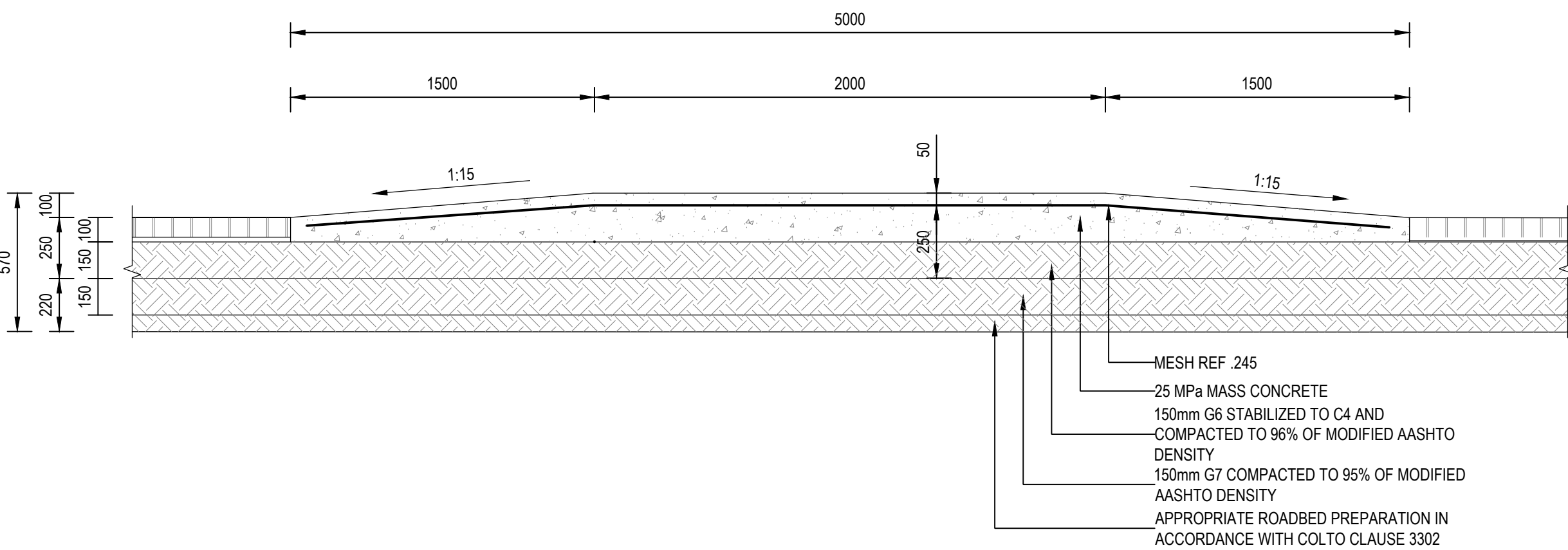
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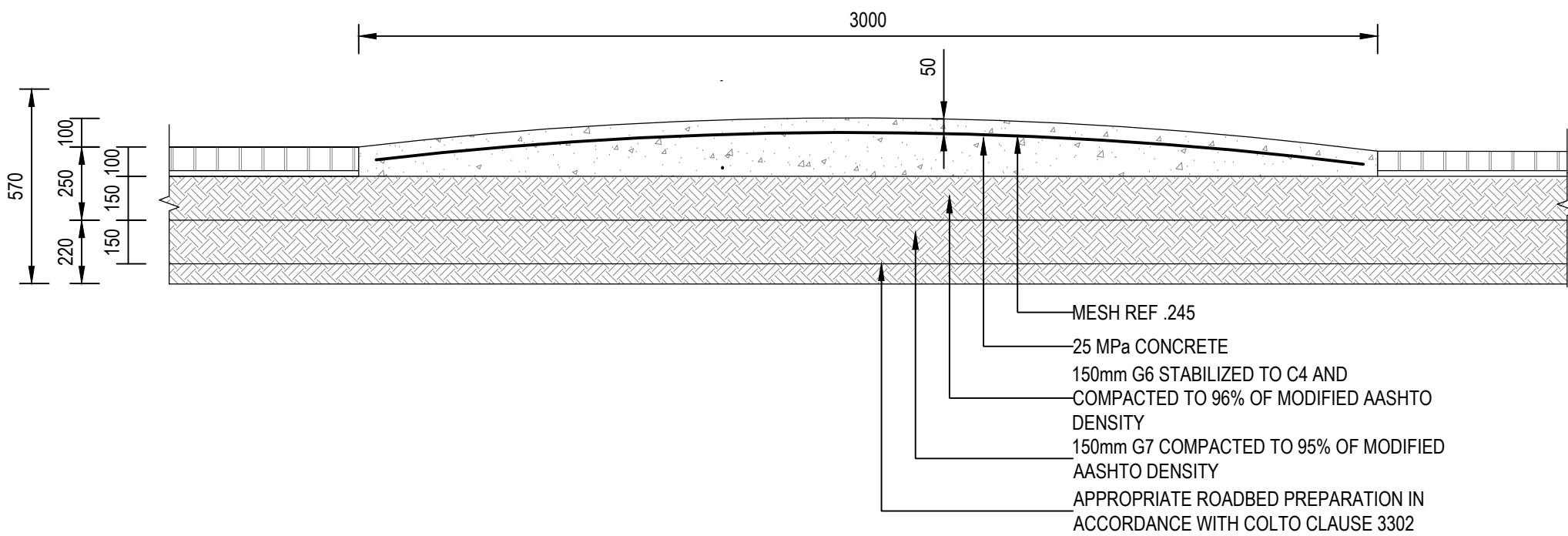
PLAN VIEW: PEDESTRIAN CROSSING
1:40



PLAN VIEW: SPEED HUMP
1:40



SECTION THROUGH PEDESTRIAN CROSSING
SECTION A
1:20



SECTION THROUGH SPEED HUMP
SECTION B
1:20

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH DRAWING 1078-CIV-DRG-402
 - ALL LAYERS TO BE COMPACTED IN DEPTHS OF 100mm TO THE SPECIFIED MOD AASHTO.
 - POSITIONS OF SPEED HUMPS TO BE SPECIFIED BY THE ENGINEER.
 - ALL DIMENSIONS IN "mm" UNLESS OTHERWISE INDICATED.

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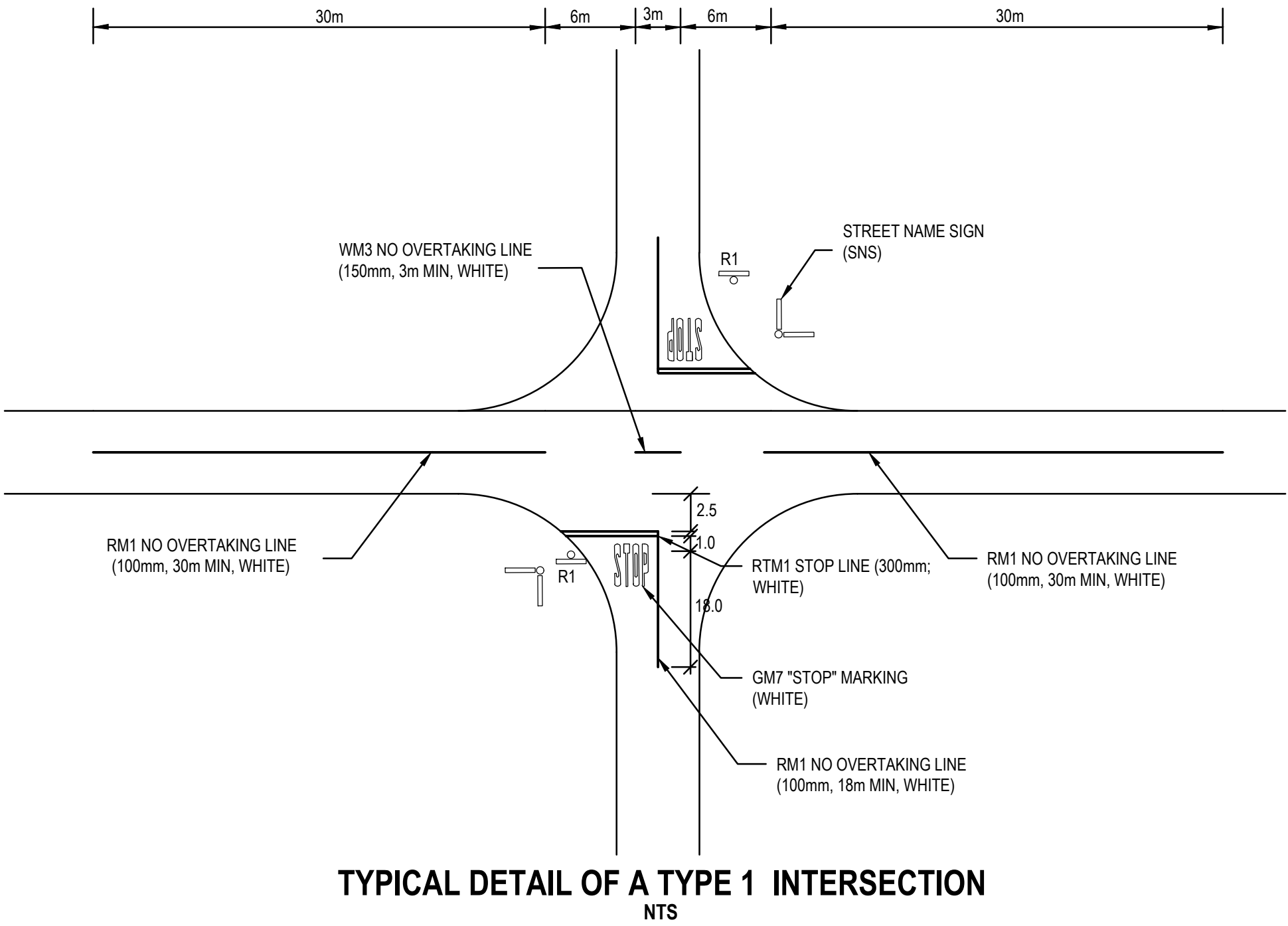


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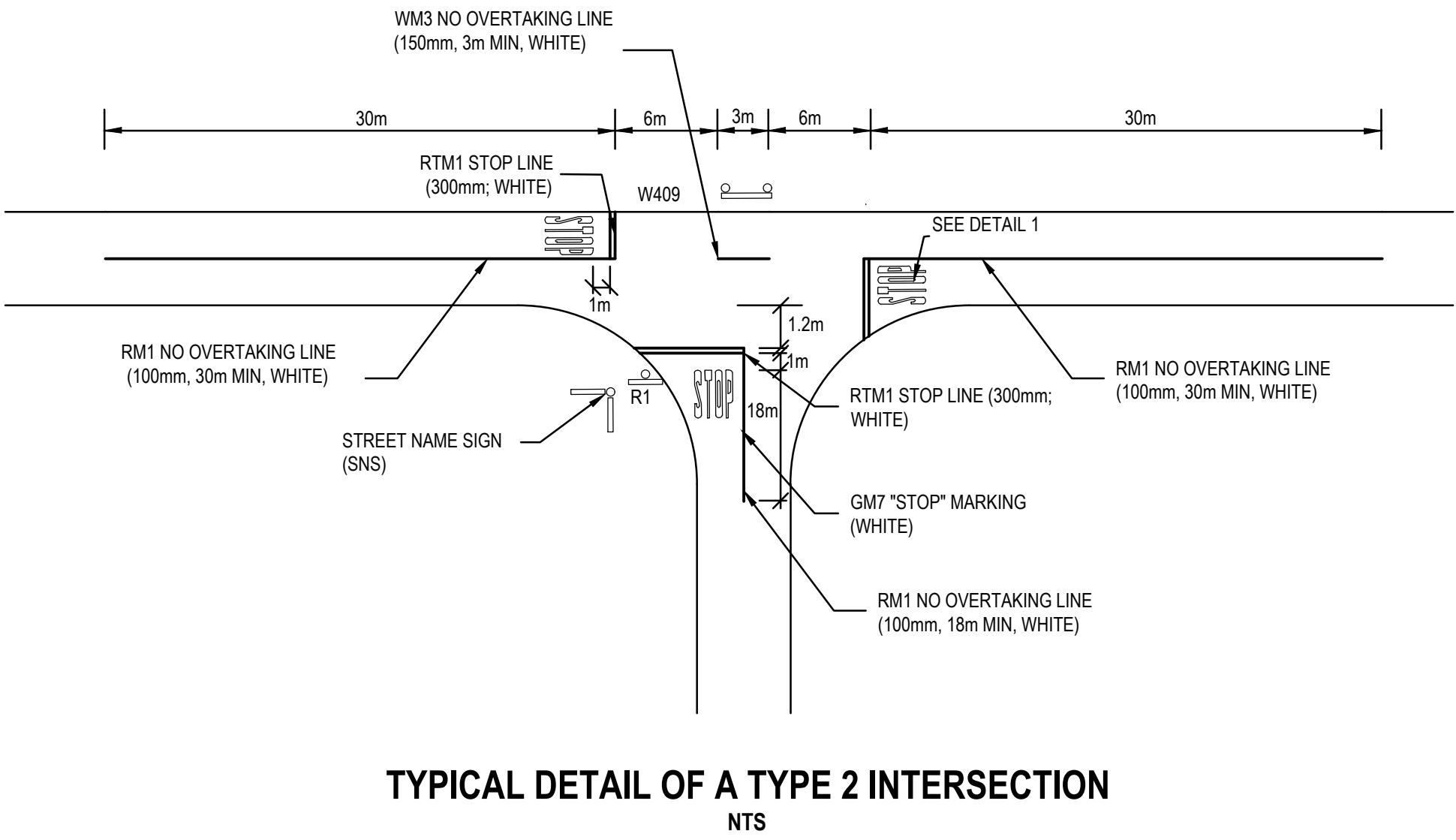
SMITHFIELD/MOFULATSHE PE: THE CONSTRUCTION OF 1KM ACCESS ROAD WITH RELATED STORMWATER IN GREEN FIELD_PHASE 1 (MIS: 425809)

DETAILS:
SPEED HUMP DETAIL & PEDESTRIAN CROSSING

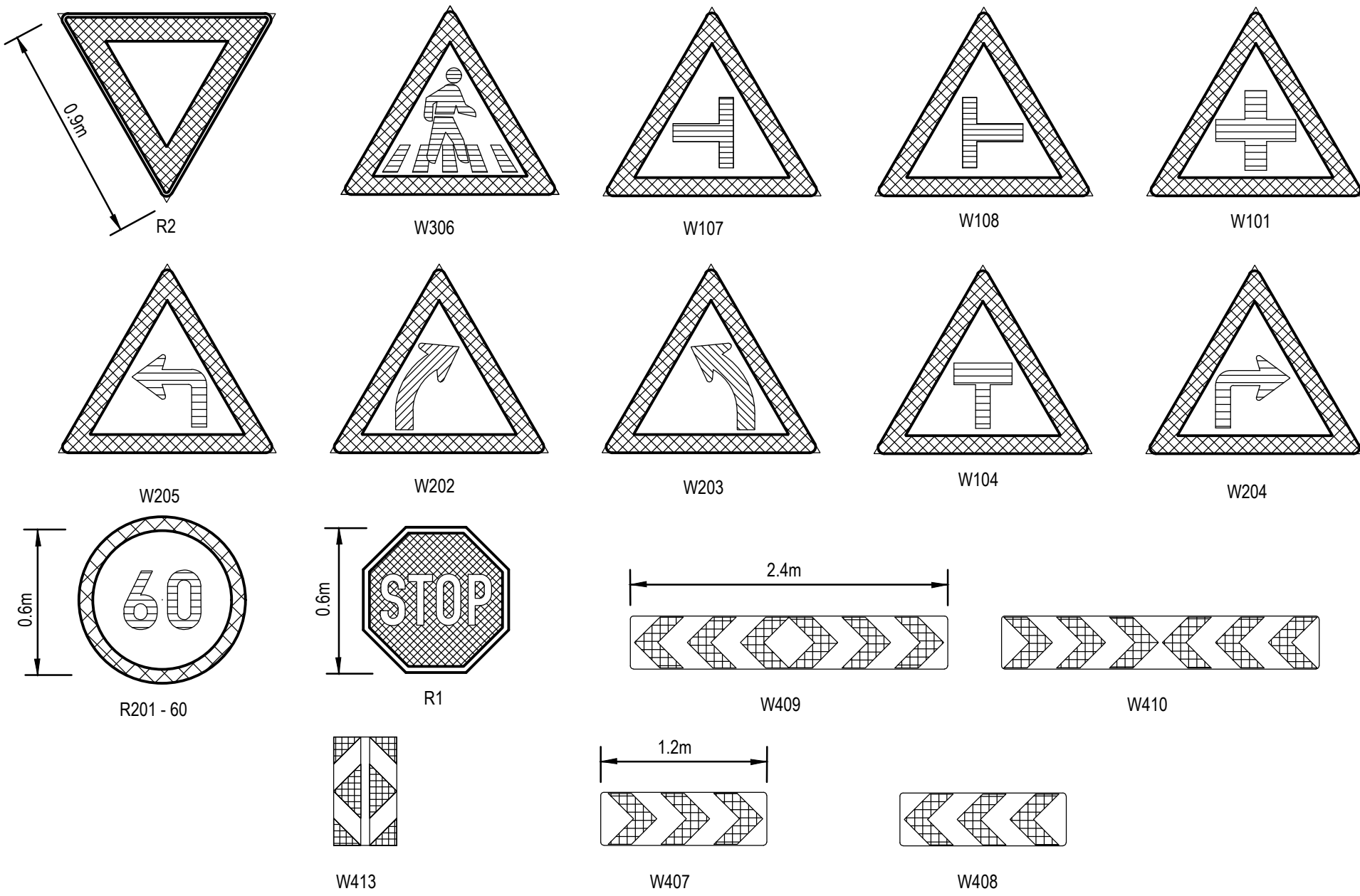
DRAWING NO. 1087-CIV-DRG-403	REVISION TO
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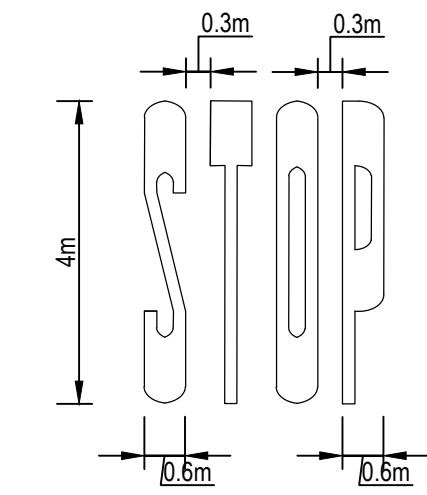
TYPICAL DETAIL OF A TYPE 1 INTERSECTION
NTS



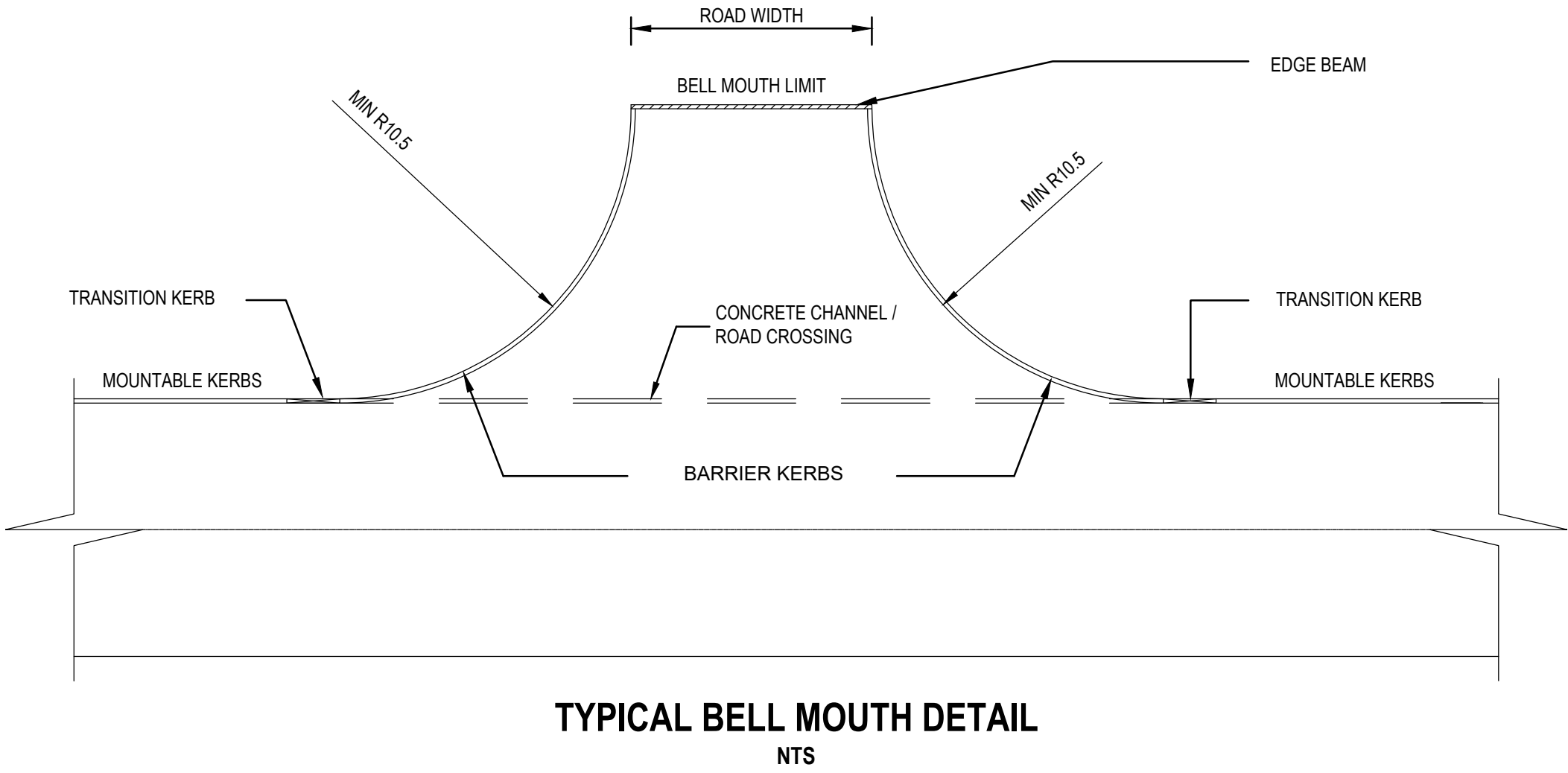
TYPICAL DETAIL OF A TYPE 2 INTERSECTION
NTS



ROAD SIGNS
NTS



DETAIL 1: TYPICAL GM7 - STOP MARKING
1:100



TYPICAL BELL MOUTH DETAIL
NTS

NOTES :

1. ALL ROAD SIGNS SHALL COMPLY WITH "THE SADC ROAD TRAFFIC SIGNS MANUAL" WITH LATEST MODIFICATIONS PROMULGATED AS ROAD TRAFFIC REGULATIONS.
2. NO ROAD SIGNS SHALL BE ORDERED WITHOUT WRITTEN CONSENT FROM THE ENGINEER.
3. THE POSITIONING AND THE SIZES OF THE GUIDANCE, WARNING AND REGULATORY SIGNS ARE DEPENDANT ON THE SPEED LIMIT AND TYPE OF ROAD. THESE SIZES AND DISTANCES SHALL BE IN ACCORDANCE WITH THE SADC RTSM (VOL 1, PART 1)
4. GM 8 KERBFACE MARKINGS TO BE APPLIED TO KERBING AT THE START OF TAPERS AND TO ALL RAISED ISLANDS IN THE ROUNDABOUT.
5. ALL SIGNS TO HAVE A MANUFACTURER GUARANTEE OF REFLECTIVITY OF THE SIGN FACE MATERIAL FOR A PERIOD OF 7 YEARS.
6. FULL DETAILS OF MANUFACTURER AND MANUFACTURING DATE TO BE ADDED TO THE BACK OF EACH ROAD TRAFFIC SIGN IN A LEGIBLE AND PERMANENT MANNER (THE USE OF STICKERS ARE NOT REGARDED AS A PERMANENT WAY OF PROVIDING THE REQUIRED INFORMATION).
7. ALL DIMENSIONS ARE IN mm UNLESS STATED OTHERWISE.

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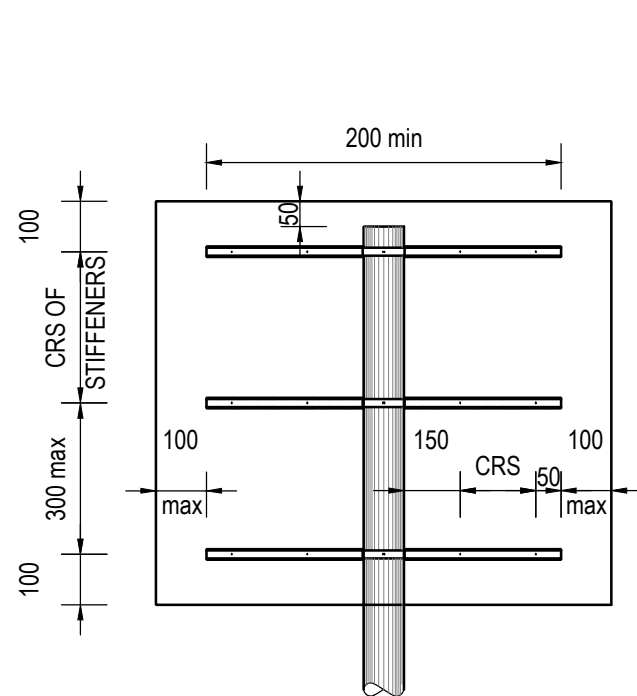


MOHOKARE LOCAL
MUNICIPALITY

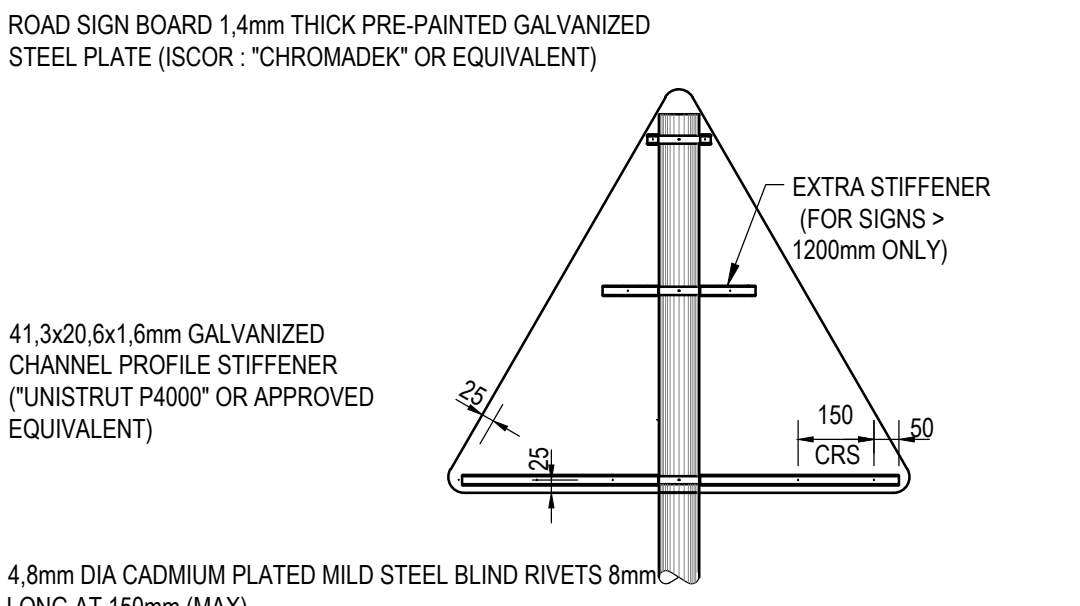
SMITHFIELD/MOFULATSHE PE: THE
CONSTRUCTION OF 1KM ACCESS
ROAD WITH RELATED STORMWATER
IN GREEN FIELD_PHASE 1 (MIS:
425809)

DETAILS: BELMOUTH & STREET
SIGNS

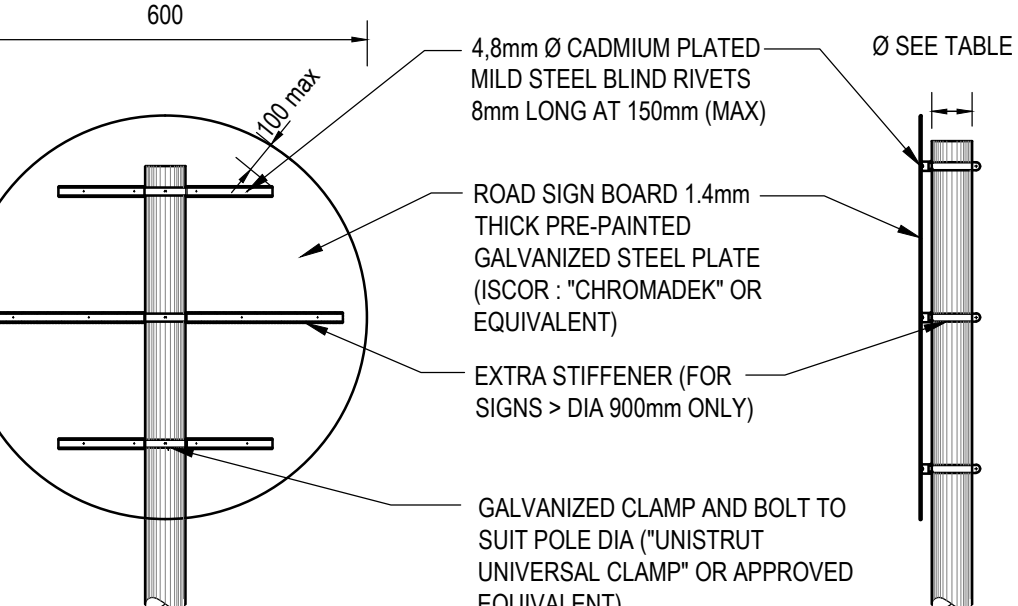
DRAWING NO.	REVISION
1087-CIV-DRG-404	TO



REAR ELEVATION



REAR ELEVATION



REAR ELEVATION

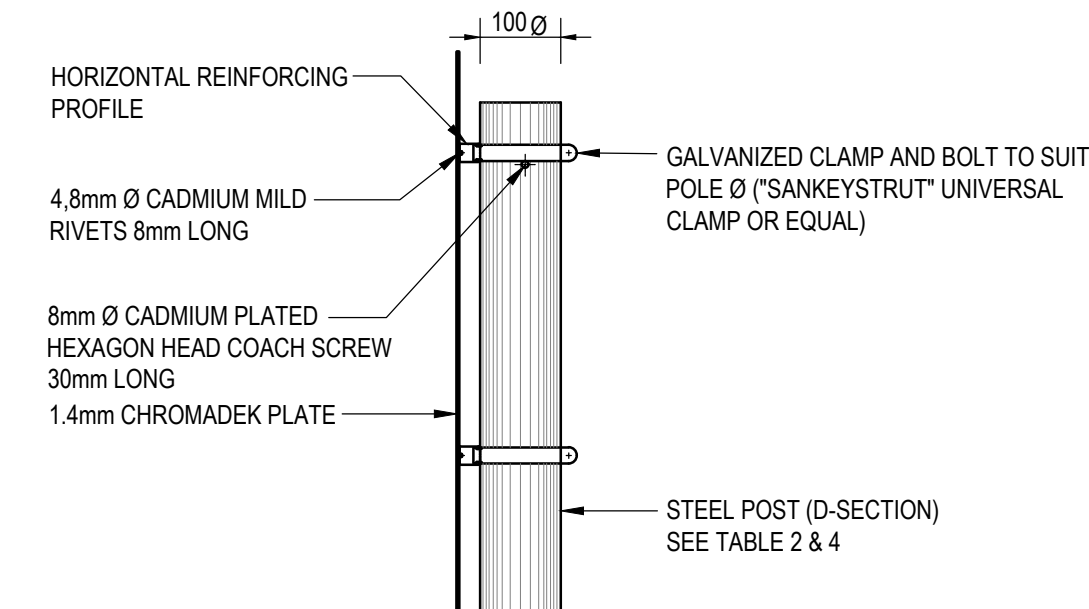
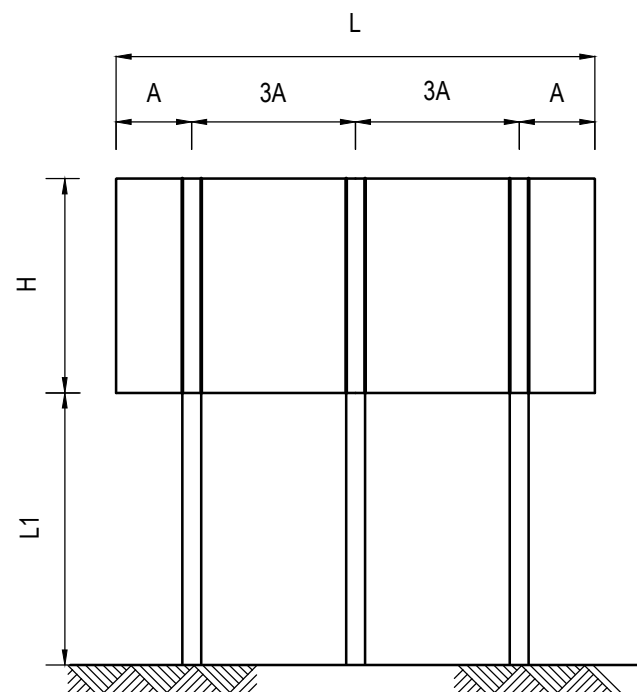
TYPICAL SIDE ELEVATION

NOTES:

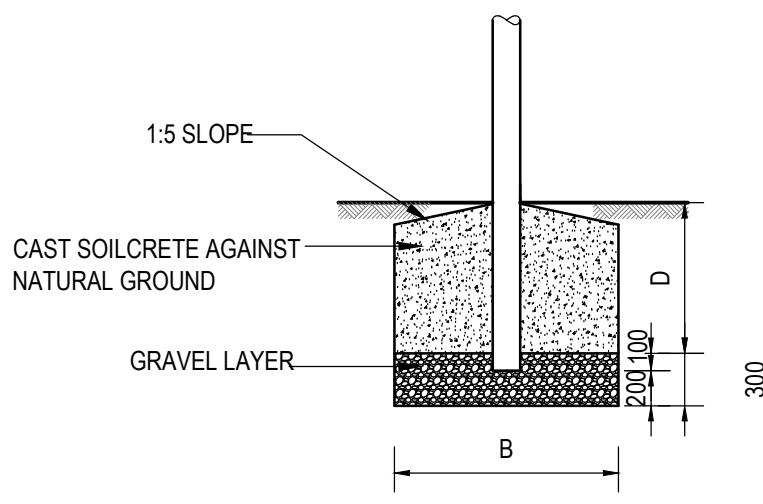
1. ALL ROAD SIGNS AND ROAD MARKINGS SHALL COMPLY WITH "THE SADC ROAD TRAFFIC SIGNS MANUAL" WITH LATEST MODIFICATIONS PROMULGATED AS ROAD TRAFFIC REGULATIONS.
2. THE POSITIONING AND THE SIZES OF THE GUIDANCE, WARNING AND REGULATORY SIGNS ARE DEPENDANT ON THE SPEED LIMIT AND TYPE OF ROAD. THESE SIZES AND DISTANCES SHALL BE IN ACCORDANCE WITH THE SADC RTSM (VOL 1, PART 1)
3. NO ROAD SIGNS MAY BE ORDERED WITHOUT WRITTEN CONSENT FROM THE ENGINEER.
4. DETAILS ON THIS DRAWING ARE APPLICABLE TO REGULATORY AND WARNING SIGNS REQUIRING A SINGLE SUPPORT.
5. ROAD SIGNS CONSTRUCTED FROM 1.4mm CHROMADEK.
6. ALUMINUM RIVETS (4.8mm Ø, 8mm LONG) AT 150mm MAXIMUM CENTERS MINIMUM 3 No. PER REINFORCING PROFILE.
7. RIVET HEADS ON THE SIGN FACE SHALL BE PAINTED TO SUIT SIGN FACE COLOUR.
8. ALL HORIZONTAL REINFORCING PROFILES SHALL BE SIZE 41.3 x 20.6 x 1.6mm.
9. THE ROAD SIGN FACES SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL CONFORM TO THE NATIONAL ROAD TRAFFIC REGULATIONS, 2000.
10. SIGN FACES SHALL BE FOR TYPE 'A' OR 'B' EXPOSURE AS SPECIFIED:
TYPE 'A': ALL CASES OTHER THAN TYPE 'B'
TYPE 'B': SIGN FACES FOR USE IN MARINE OR CHEMICALLY POLLUTED CORROSIVE ENVIRONMENTS.
11. ALL REGULATORY AND WARNING SIGNS SHALL BE MANUFACTURED WITH CLASS III RETRO-REFLECTIVE BACKGROUNDS.
12. SIGN FACES SHALL BE FOR TYPE 'A' OR 'B' EXPOSURE AS SPECIFIED:
TYPE 'A': ALL CASES OTHER THAN TYPE 'B'
TYPE 'B': SIGN FACES FOR USE IN MARINE OR CHEMICALLY POLLUTED CORROSIVE ENVIRONMENTS.
13. REFERENCE MUST BE MADE TO THE RELEVANT ROAD SIGN DETAIL DRAWINGS FOR DETAILS OF THE SYMBOLS AND LEGEND FOR EACH INDIVIDUAL SIGN.
14. ALL STEEL SECTIONS SHALL BE HOT DIPPED GALVANIZED.
15. FOUNDATIONS:
15.1 SIZE OF FOUNDATIONS IS SHOWN ON ROAD SIGN LAYOUT DRAWINGS.
15.2 ALL FOUNDATIONS IN SAND OR SOFT CLAY TO BE APPROVED BY ENGINEER.

TABLE 1				
POSITIONING OF ERECTION BRACKETS				
L1	NUMBER OF SUPPORTS	H	A	A MAX
600 - 1500	1	R/W SIGNS	-	-
0 - 1500	1	≤ 900	L/2	L/2
		> 900	L/2	L/2
1500 - 3600	2	≤ 900	L/5	≤ 800
		> 900	L/5	≤ 700
3600 - 5400	3	≤ 900	L/8	≤ 800
		> 900	L/8	> 700
5400 - 7200	4	≤ 900	L/11	> 800
		> 900	L/11	≤ 700

POSITIONING OF SUPPORTS AND ERECTION BRACKETS

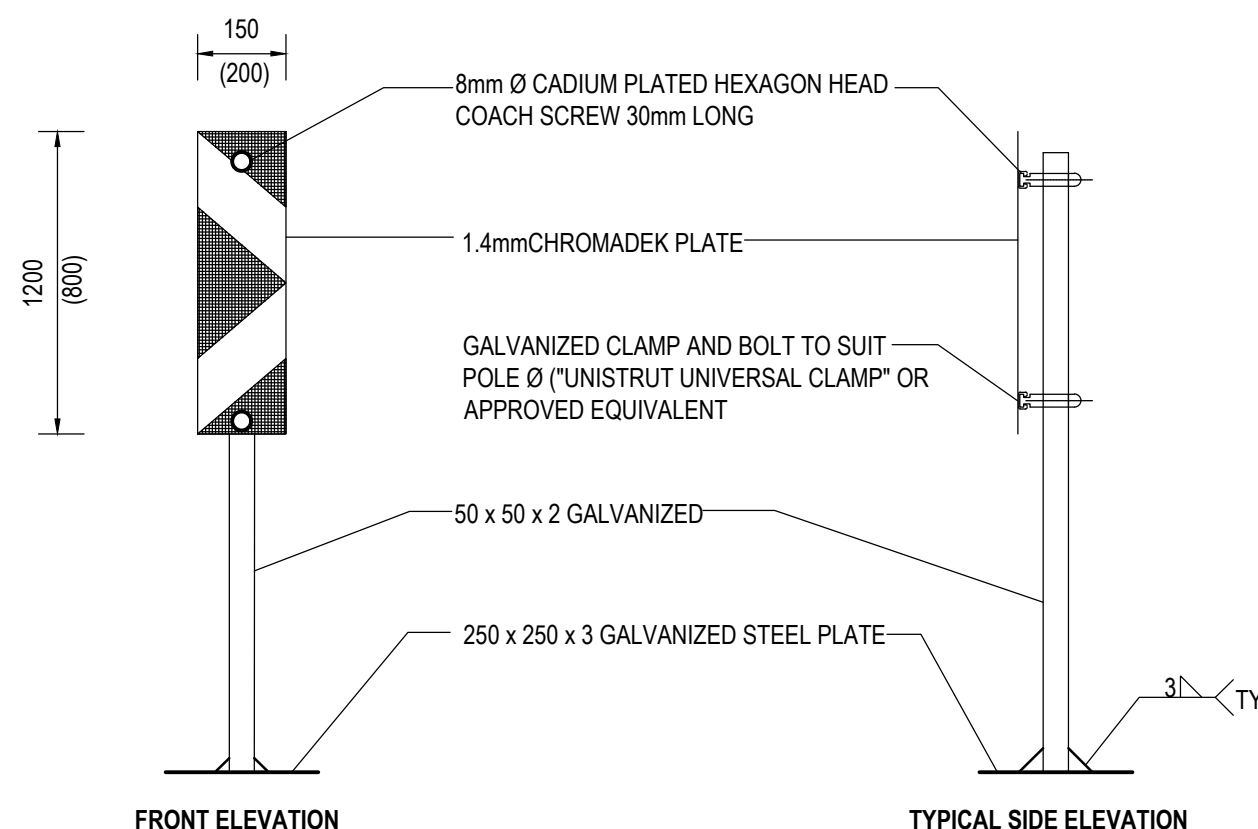


TYPICAL SIDE ELEVATION

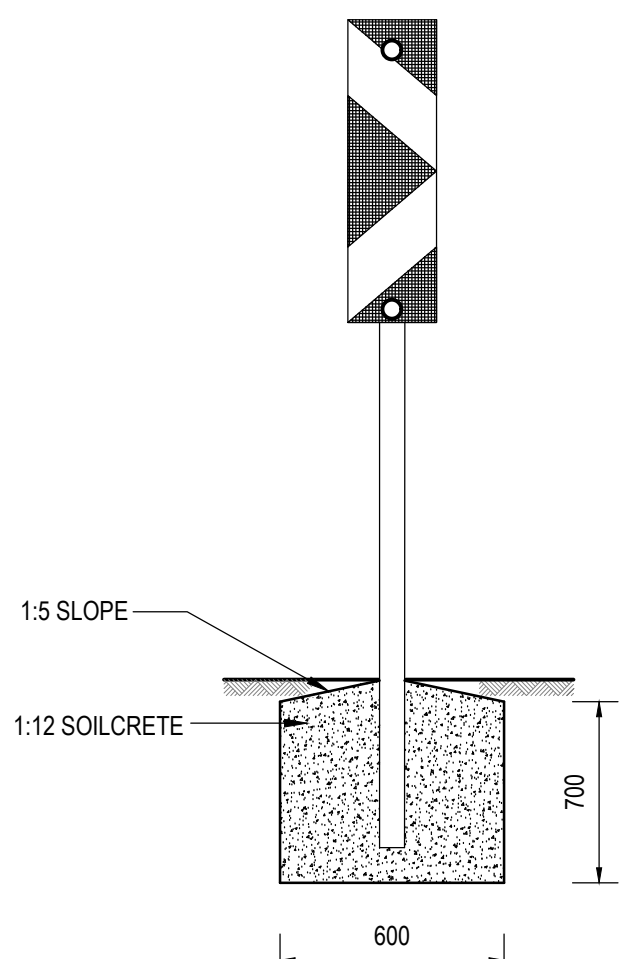


FOUNDATION DETAIL

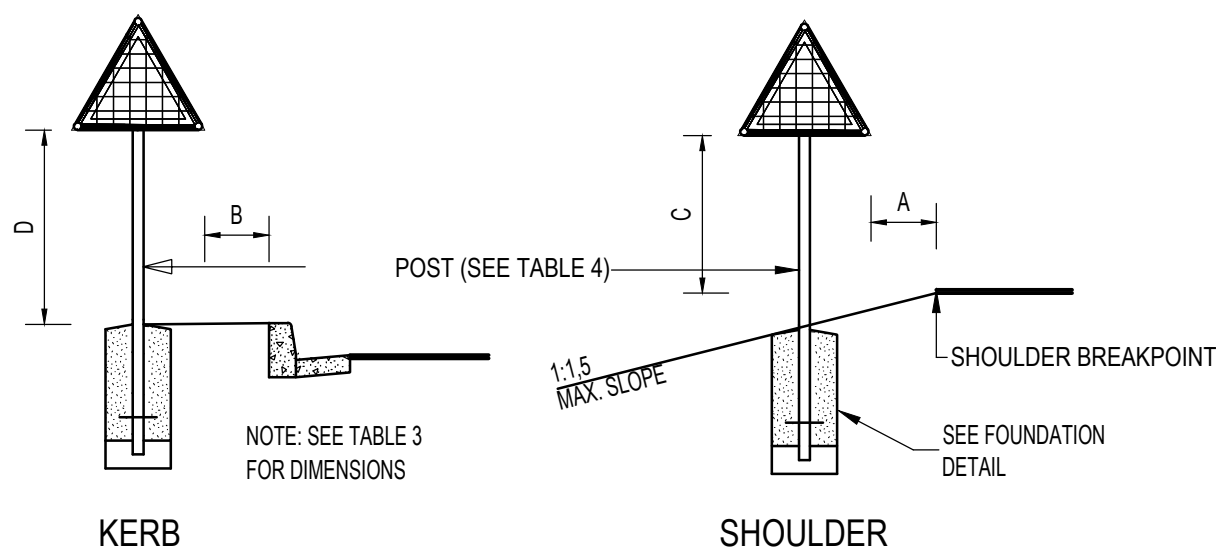
TABLE 2				
FOUNDATION AND SUPPORT SIZES				
SIGN HEIGHT H (mm)	L1(mm)	FREESTANDING SUPPORTS		
		FOUNDATION		POSTS
		BASE SIZE B(mm)	BASE DEPTH D(mm)	D-SECTION DIA x t(mm)
400-900	≤ 2900	950	700	76 x 2
	2900-3400	1000	700	76 x 2
	3400-5600	1150	800	76 x 2
900-1200	≤ 2900	1000	800	76 x 2
	2900-3400	1050	800	76 x 2
	3400-5600	1300	800	76 x 2
1200-1800	≤ 2900	1200	800	76 x 2
	2900-3400	1300	800	100 x 4
	3400-5600	1450	900	100 x 4
1800-2400	≤ 2900	1350	900	100 x 4
	2900-3400	1400	900	100 x 4
	3400-5600	1550	1000	100 x 4
2400-3000	≤ 2900	1450	1000	100 x 4
	2900-3400	1500	1000	100 x 4
	3400-5600	1750	1000	100 x 4
3000-3600	≤ 2900	1600	1000	100 x 4
	2900-3400	1650	1000	100 x 4
	3400-5600	1900	1000	100 x 4
3600-4200	≤ 2900	1700	1000	100 x 4
	2900-3400	1750	1000	100 x 4
	3400-5600	2000	1000	100 x 4
4200-4800	≤ 2900	1850	1000	100 x 4
	2900-3400	1900	1000	100 x 4
	3400-5600	2300	1000	100 x 4
SINGLE POST REGULATORY AND WARNING SIGNS				
600-1500	≤ 3000	950	700	76 x 2



W410 DELINEATOR SIGN



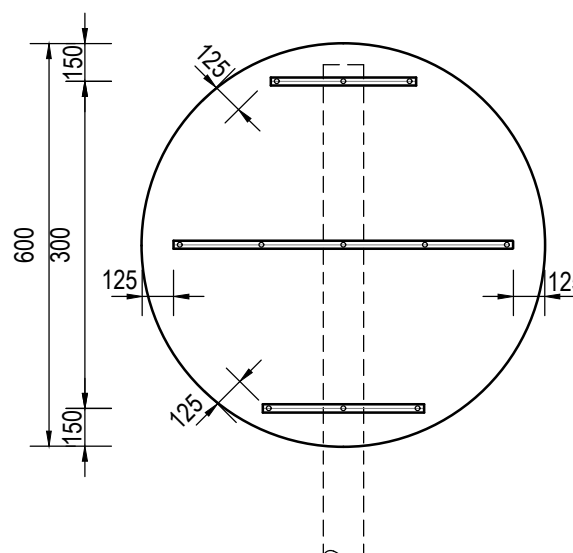
FOUNDATION DETAILS



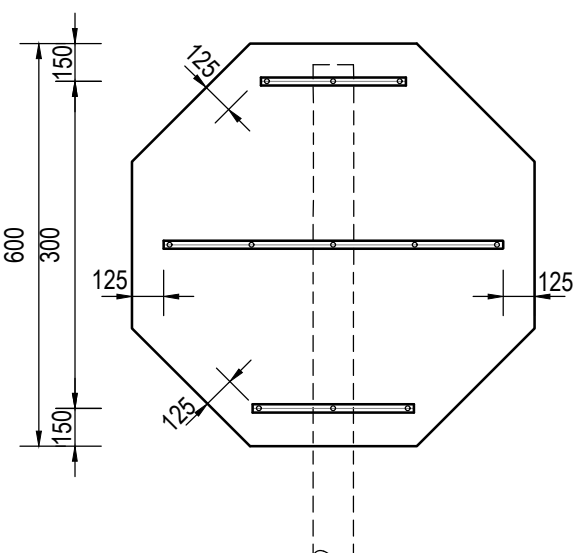
CLEARANCE FOR SMALL SIGNS

TABLE 3			
	MAX.	PREFER-ABLE	MIN
A	2000	1500	1200
B		750	500
C	2500	2100	600
D	3000	2500	2100

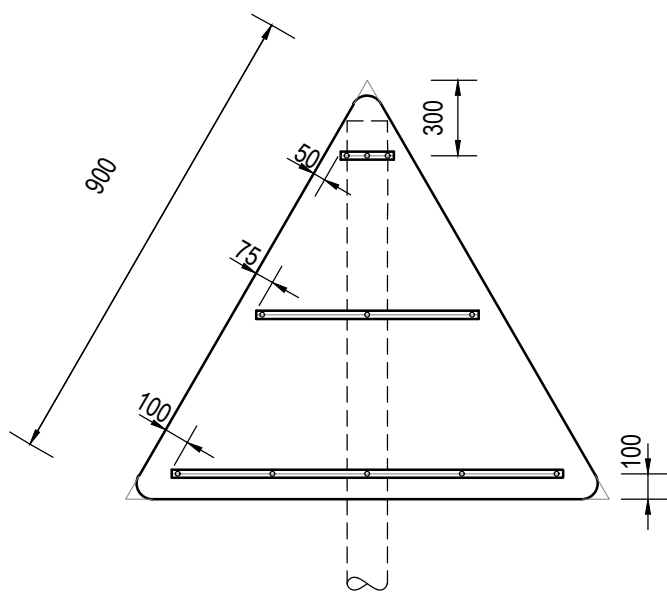
TABLE 4		
DETAIL OF STEEL POSTS		
POST N	THICKNESS (t)	MASS
76	3.0	5.4kg/m
89	3.0	6.4kg/m
102	2.8	6.8kg/m
114	3.5	9.6kg/m
127	4.0	12.1kg/m
152	4.0	14.6kg/m



ROAD SIGN



STOP SIGN



TRIANGULAR SIGN

REGULATORY AND WARNING SIGN

Drawing signed for approval
held at Engineering Aces offices

DRAWN:	M BOROLE	ISSUED FOR TENDER	
DESIGNED:	T KHUNONG		DATE
CHECKED:	SS MNTAMBO	OS MOTHIBI Pr Tech Eng - 201570157	
APPROVED:	OS MOTHIBI	SCALE: NTS	

AMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	12/01/2023	TENDER DRAWINGS	OS MOTHIBI



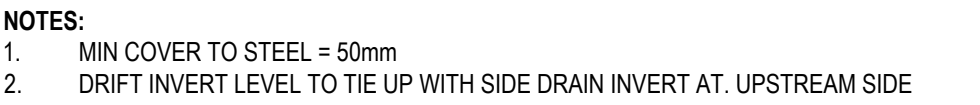
MOHOKARE LOCAL MUNICIPALITY

SMITHFIELD/MOFULATSHE PE: THE
CONSTRUCTION OF 1KM ACCESS
ROAD WITH RELATED STORMWATER
IN GREEN FIELD_PHASE 1 (MIS:
425809)

DETAILS: STREET SIGNS

DRAWING NO.
1087-CIV-DRG-405

REVISION
T0



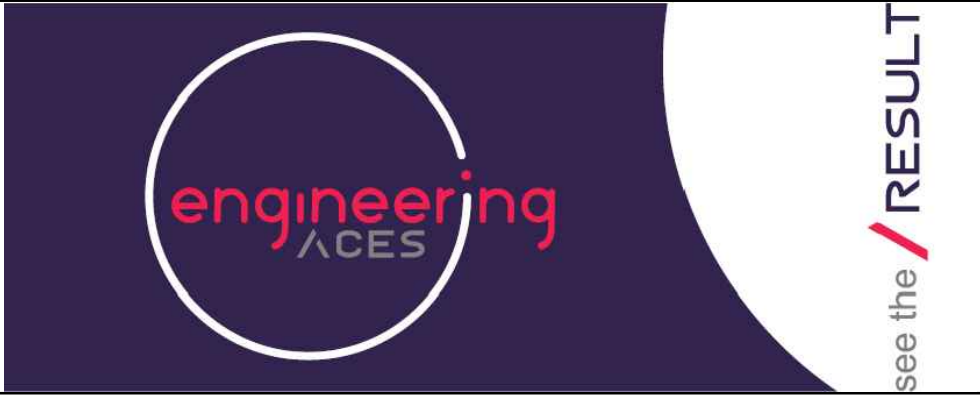
*Drawing signed for approval
held at Engineering Aces offices*

DRAWN:	M BOROLE	ISSUED FOR TENDER	
DESIGNED:	T KHUNONG	OS MOTHIBI Pr Tech Eng - 201570157	DATE
CHECKED:	SS MNTAMBO		
APPROVED:	OS MOTHIBI	SCALE: 1:1000	

AMENDMENTS

REV	DATE	DESCRIPTION	APPROVED
T0	12/01/2023	TENDER DRAWINGS	OS MOTHIBI

CONSULTANT



CLIENT



MOHOKARE LOCAL MUNICIPALITY

SMITHFIELD/MOFULATSHE PE: THE
CONSTRUCTION OF 1KM ACCESS
ROAD WITH RELATED STORMWATER
IN GREEN FIELD_PHASE 1 (MIS:
425809)

DETAILS: ROAD CROSSING

DRAWING NO. 1087-CIV-DRG-406	REVISION T0
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