

SCHEDULE OF MEGARAIL COMPONENTS	
PART NUMBER	DESCRIPTION
SR000	BEAM "A" PROFILE x 4300 x 2.5mm
SR001	BEAM "A" PROFILE x 4300
SR014	BEAM TRI-WAVE 4820mm
SR021	BEAM "A" PROFILE x 2300
SR022	BEAM "A" PROFILE x 4300 x 2.4mm
SR024	BEAM "B" PROFILE x 4300
SR025	BEAM ½ ROUND ESP x 4300
SR028	sk BEAM "A" PROFILE 4300
SR070	POST SIGMA 100 x 1700
SR071	POST SIGMA 100 x 1900
SR072	POST SIGMA 100 x 2100
SR073	POST SIGMA 100 x 1100
SR050	POST "C" 125 1400
SR051	POST "C" 125 1800
SR052	POST "C" 125 2000
SR053	POST "C" 125 1100
SR054	POST "C" 125 1900
SR055	POST "C" 125 2400
SR056	POST "C" 125 1600
SR057	POST "C" BASEPLATE bs UK CENTRE
SR058	POST "C" BASEPLATE bs UK VERGE
SR059	POST "C" 125 1700 x 5
SR060	POST "C" 125 1100 x 5
SR062	POST "C" 125 1600
SR063	POST "C" BASEPLATE bs UK VERTICAL
SR064	POST "C" 125 2400
SR066	POST "C" BASEPLATED bs LEFT 495
SR067	POST "C" BASEPLATED bs UK CENTRE 495
SR034	POST "C" 125 1100
SR035	POST "C" 125 1800
SR036	POST "C" 125 2000
SR037	POST "C" 125 C/W BRACKET 2400
SR039	POST "C" 125 2400
SR040	POST "C" 125 2400 (PUNCHED BOTH ENDS)
SR041	POST "C" 125 1600
SR042	POST "C" 125 1700
SR043	POST "C" 125 1800
SR044	POST "C" 125 2000
SR045	POST "C" 125 1100
SR046	POST "C" 125 C/W BRACKET 1600

SR047	POST "C" 125 C/W BRACKET 1800
SR048	POST "C" 125 C/W BRACKET 2000
SR049	POST "C" 125 C/W BRACKET 1100
SR170	POST C100/60/4 1100
SR171	POST C100/60/4 1800
SR172	POST C100/60/4 2000
SR173	POST C100/60/4 2400
SR214	POST "C" 125 1600 (SAFESTAR)
SR225	POST "C" 125 2000 (SAFESTAR)
SR240	POST "C" 125 1250 (SAFESTAR)
SR330	POST "C" 125 2400 (TM32-34)
SR332	POST "C" 125 2000 (TM32-34)
SR333	POST "C" 125 1800 (TM32-34)
SR336	POST "C" 125 1360 (TM32-34)
SR339	POST "C" 125 1280 (TM32-34)
SR340	POST "C" 125 1080 (TM32-34)
SR111	BRACKET SINGLE SPACER LEFT 340mm
SR112	BRACKET SINGLE SPACER RIGHT 340mm
SR113	SPACER BRACKET 45mm
SR320	SPACER BRACKET 45mm (TM32-34)
SR321	SPACER LEFT HAND 480mm (TM32-34)
SR322	BOX PROFILE BRACKET (TM32-34)
SR323	BOX PROFILE FITTING PIECE (TM32-34)
SR324	KP LOWERING MEMBER 13° (TM32-34)
SR325	KP M LATERAL OFFSET B+C (TM32-34)
SR328	MOUNTING BRACKET 100° (TM32-34)
SR329	KP M LATERAL OFFSET A+D (TM32-34)
SR151	WASHER PLATE 115x40x6 DIA. 18
SR152	WASHER PLATE 115x40x5 DIA. 12
SR154	WASHER PLATE MR bw FOR HD BOLTS
SR155	WASHER PLATE 85x35x4 DIA. 18
SR105	WASHER PLATE 115x40x5 TEAR DROP
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT
SR106	SETSCREW 4.6 LIP M16x40 c/w NUT
SR201	SETSCREW 8.8 M16x45 c/w NUT
SR202	SETSCREW 8.8 M16x30 c/w NUT
SR203	SETSCREW 4.6 M10x60 c/w NUT
SR204	SETSCREW 4.6 M10x45 c/w NUT
SR205	SETSCREW 8.8 M10x30 c/w NUT
SR206	SETSCREW 4.6 M10x30 c/w NUT

SR207	SETSCREW 8.8 M16x30 c/w NUT HRK SHOULDER
SR220	SETSCREW 4.6 LIP M16x27 c/w NUT & WASHER
SR221	SETSCREW 4.6 LIP M16x40 c/w NUT, WASHER & PLATE
SR222	SETSCREW 8.8 M16x45 c/w NUT, WASHER & PLATE
SR223	SETSCREW 4.6 M10x45 c/w NUT, WASHER & PLATE
SR224	SETSCREW 4.6 M10x30 c/w NUT, WASHER & PLATE
SR208	WASHER M16 HEX
SR209	WASHER M16 18x38
SR300	WASHER M16 18 DIA. HOLE
SR301	WASHER M10 11 DIA. HOLE
SR090	SIGMA POST SOCKET 420mm
SR091	SIGMA POST SOCKET 470mm
SR092	SIGMA POST SOCKET 520mm
SR093	SIGMA POST SOCKET 550mm
SR094	SIGMA POST SOCKET 570mm
SR080	"C" POST SOCKET 470mm
SR081	"C" POST SOCKET 520mm
SR082	"C" POST SOCKET 550mm
SR083	"C" POST SOCKET 570mm
SR084	"C" POST SOCKET 470mm (PLASTIC)
SR181	C100 POST SOCKET 450mm
SR182	C100 POST SOCKET 500mm
SR183	C100 POST SOCKET 550mm
SR100	A21 REINFORCING RING

05	20.06.23	SR180 REMOVED	A.D
04	18.10.22	PRODUCT ADDED	M.T
03	12.02.19	DETAILS ADDED, REVISED	M.T
02	24.01.17	ITEMS, CODES UPDATED	M.T
1.0	21.05.15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

# MegaRail

VEHICLE RESTRAINT SYSTEM  
DEFINITION OF SYSTEM  
COMPONENTS AND PART NUMBERS

# SAFEROAD®

CONCORD HOUSE,  
BESSEMER WAY, SCUNTHORPE,  
NORTH LINCOLNSHIRE, DN15 8XE  
t: 01724 289119  
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DRAWING NUMBER:

MR-APPENDIX 002

REVn:

05

TERM	DEFINITION
APPROACH MEGARAIL	THE LENGTH OF MEGARAIL SYSTEM NEAREST THE APPROACHING TRAFFIC
DEPARTURE MEGARAIL	THE LENGTH OF MEGARAIL SYSTEM NEAREST THE DEPARTING TRAFFIC
TAPER	ANY LENGTH OF MEGARAIL OF VARIABLE OFFSET DIMENSION (NORMALLY BETWEEN TWO DISTINCT WORKING CLASS WIDTHS)
WORKING CLASS WIDTH	THE WORKING WIDTH DESIGNATION OF MEGARAIL RESTRAINT SYSTEM
W1	APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 600mm
W2	APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 800mm
W3	APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1000mm
W4	APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1300mm
W5	APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm
AVAILABLE WORKING WIDTH	THE MINIMUM DIMENSION BETWEEN THE OBSTRUCTION OR HAZARD AND THE TRAFFIC FACE OF THE MEGARAIL RESTRAINT SYSTEM
VERGE	LAND TO THE NEAR SIDE OF A CARRIAGEWAY
CENTRAL RESERVE	LAND BETWEEN TWO CARRIAGEWAYS OF TRAFFIC TRAVELLING IN OPPOSING DIRECTIONS
BEAM LAPPING	ANY LENGTH OF BEAM (EITHER FRONT BEAM, BACK BEAM OR BOTH) THAT OVERLAPS AT LEAST ONE OTHER LENGTH OF BEAM

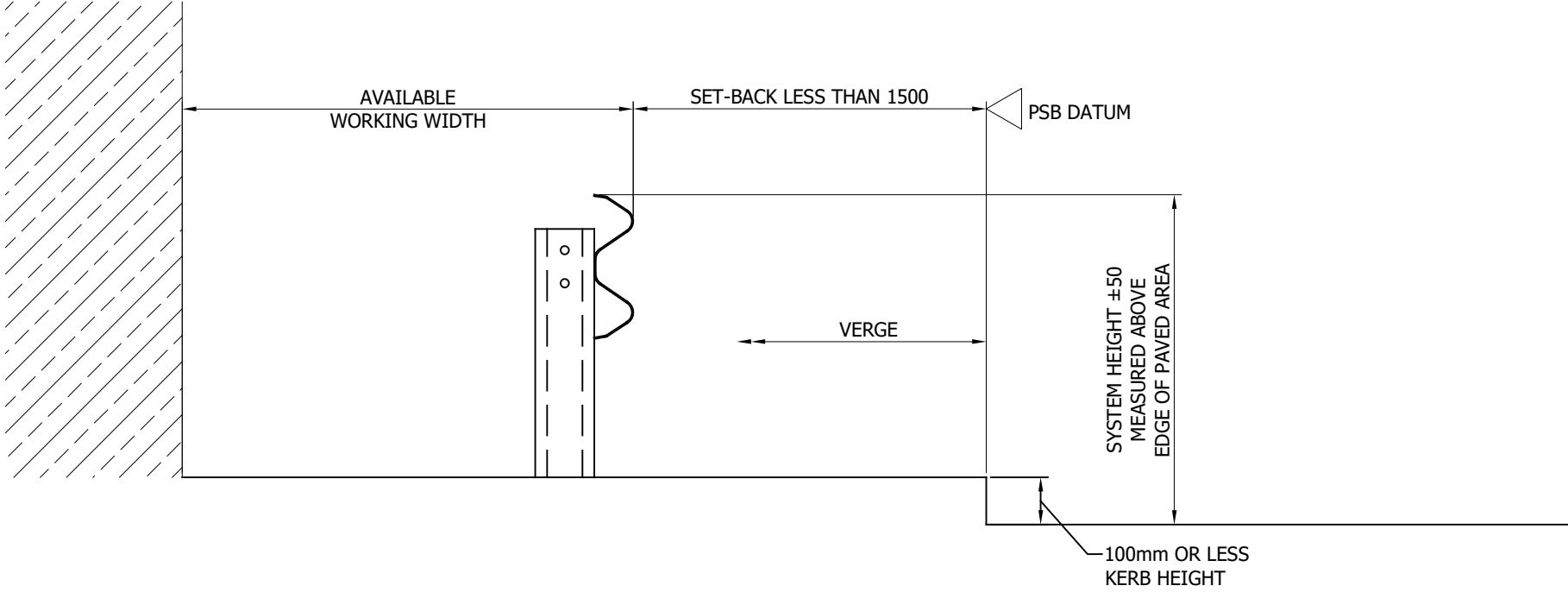
04	20.06.19	TERMINOLOGY REVISED	M.T
03	12.02.19	TITLEBLOCK REVISED	M.T
02	24.01.17	W5 DEFINITION UPDATED	M.T
1.0	21.01.15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

# MegaRail

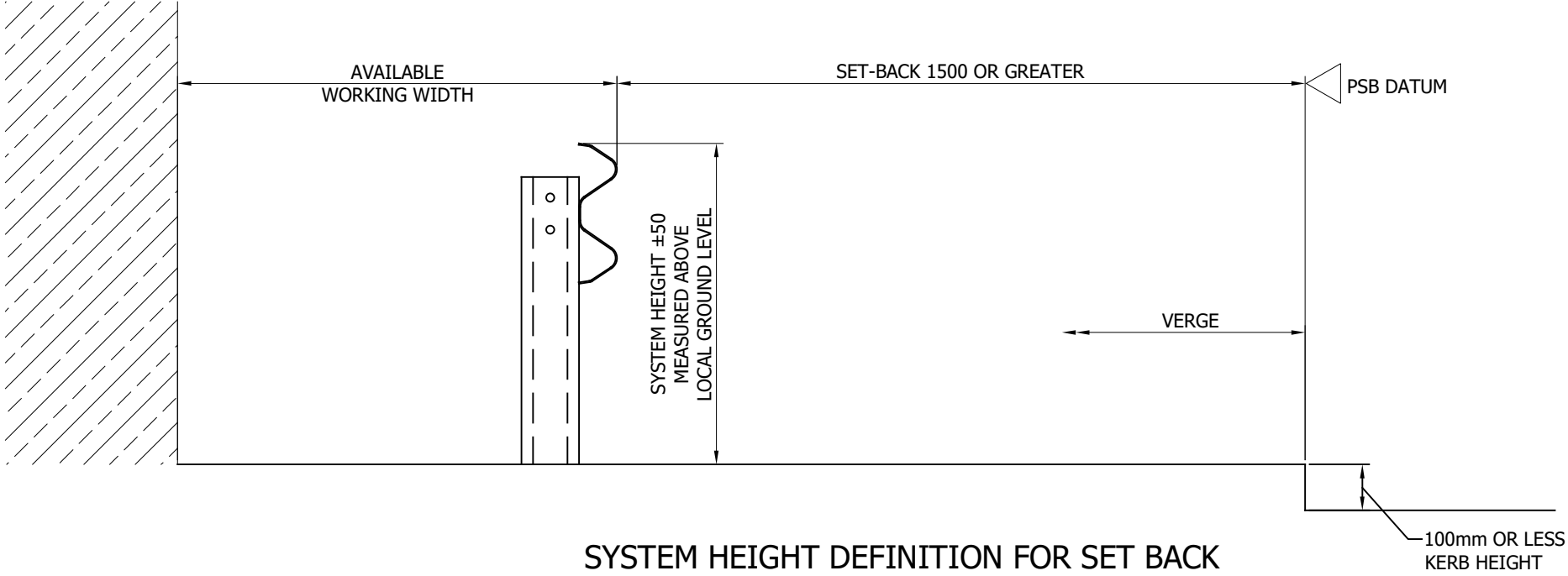
VEHICLE RESTRAINT SYSTEM  
DEFINITION OF TERMS

**SAFEROAD®**  
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DRAWING NUMBER:	REVn:
MR-APPENDIX 001	04



SYSTEM HEIGHT DEFINITION FOR SET BACK  
DIMENSIONS LESS THAN 1500mm



SYSTEM HEIGHT DEFINITION FOR SET BACK  
DIMENSIONS 1500mm AND GREATER

- GENERAL NOTES:
1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
  2. FOR INSTALLATIONS WITH BEAMS TO A SINGLE SIDE OF THE POSTS THE POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
  3. FOR INSTALLATIONS WITH BEAMS TO BOTH SIDES OF THE POSTS; THE POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC WITH THE SMALLEST SETBACK BIAS.
  4. MEGARAIL SYSTEM MAY BE EITHER SINGLE OR DOUBLE SIDED.

04	17.12.21	HEIGHT NOTE REVISED	A.D
03	12.02.19	TITLEBLOCK REVISED	M.T
02	24.01.17	KERB HEIGHTS ADDED	M.T
1.0	21.05.15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

# MegaRail

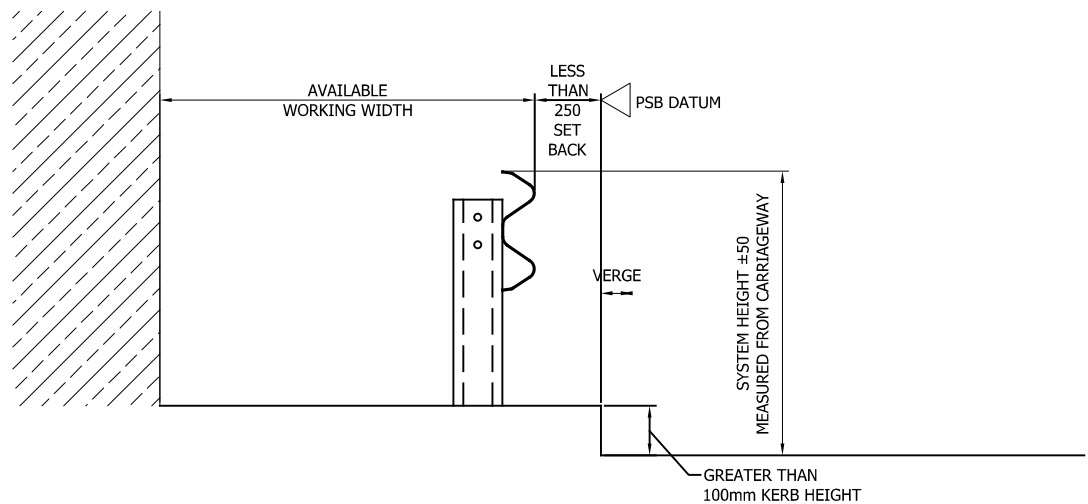
VEHICLE RESTRAINT SYSTEM  
SYSTEM HEIGHT MEASUREMENTS  
FOR ALTERNATE SETBACKS  
100mm OR LESS KERB HEIGHT

**SAFEROAD®**

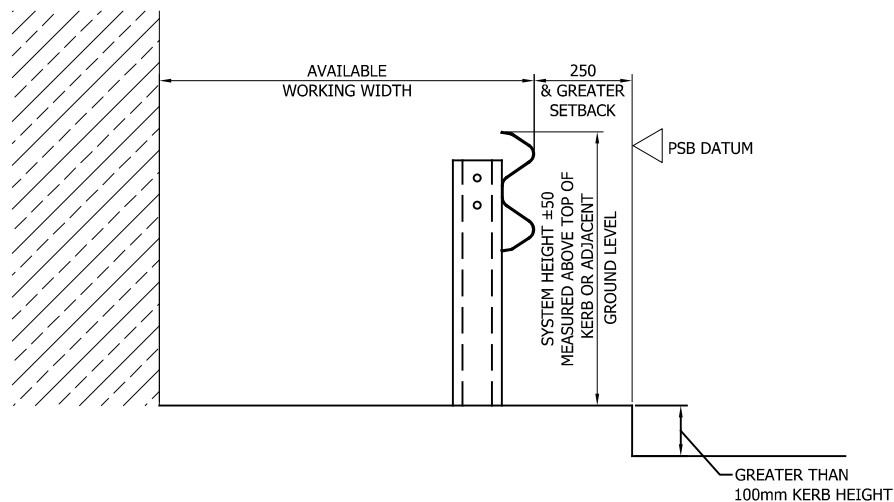
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DRAWING NUMBER:	REVn:
MR-GA-001	04



SYSTEM HEIGHT DEFINITION FOR SET  
BACKS OF LESS THAN 250mm &  
KERB HEIGHTS OF GREATER THAN 100mm



SYSTEM HEIGHT DEFINITION FOR SET  
BACKS OF 250mm & GREATER &  
KERB HEIGHTS OF GREATER THAN 100mm

THIS DRAWING (MR-GA-03) APPLIES TO SAFEROAD  
MEGARAIL PRODUCTS ONLY.  
IT DOES NOT APPLY TO NPSBS PRODUCTS

#### GENERAL NOTES:

1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
2. WHERE A KERB IS PRESENT THE MAXIMUM HEIGHT IS 100mm. SHOULD THE KERB BE HIGHER THAN 100mm AND THE BARRIER SETBACK LESS THAN 250mm FROM FACE OF KERB, THE SYSTEM HEIGHT IS MEASURED FROM THE CARRIAGEWAY. IF THE SETBACK IS GREATER THAN 250mm FROM THE FACE OF KERB, THE SYSTEM HEIGHT IS MEASURED FROM THE TOP OF THE KERB OR ADJACENT GROUND LEVEL.

06	18/01/24	LIST OF APPLICABLE SYSTEMS REMOVED	H.B
05	19.05.23	LIST OF APPLICABLE SYSTEMS REVISED	A.D
04	17.12.21	HEIGHT NOTE REVISED	A.D
03	02.11.21	LIST OF APPLICABLE SYSTEMS REVISED	A.D
02	27.05.21	DETAILS & NOTES REVISED	M.T
01	12.02.19	TITLEBLOCK REVISED	M.T
00	25.01.17	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

## MegaRail

VEHICLE RESTRAINT SYSTEM  
SYSTEM HEIGHT MEASUREMENTS  
FOR SETBACKS  
GREATER THAN 100mm KERB HEIGHT

**SAFEROAD®**

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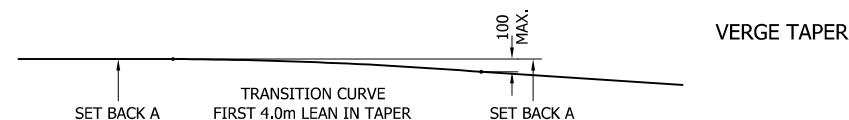
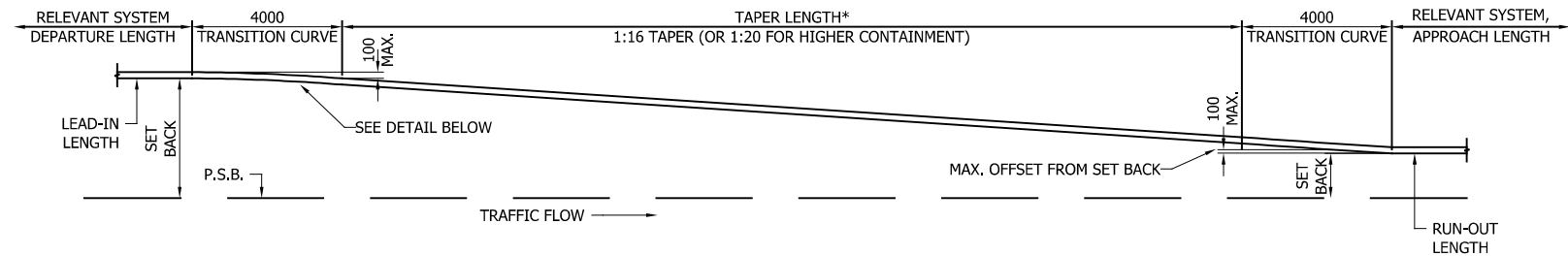
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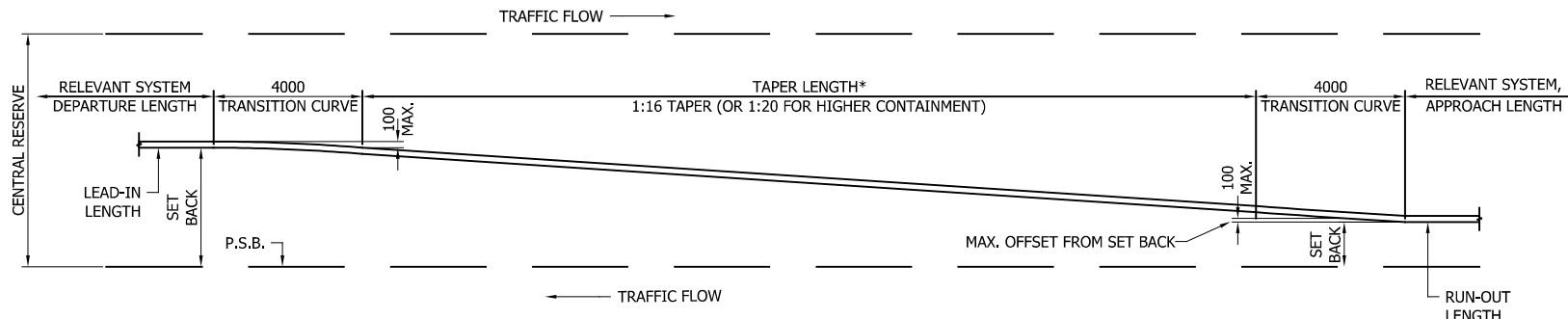
MR-GA-003

REVn:

06



\* TAPER MAY BE EITHER TOWARDS (AS SHOWN) OR AWAY FROM TRAFFIC.



CENTRAL RESERVE TAPER

NOTE: 1:16 FOR N2 SYSTEMS & 1:20 FOR H LEVEL SYSTEMS ARE MAXIMUM PERMITTED TAPERS. THE TAPER LENGTH SHOWN IN THE TABLES CAN BE REDUCED. BUT CHANGES IN SAFETY BARRIER PROFILE MUST NOT OCCUR ABRUTLY, ANY ANGLES PRESENTED TO ONCOMING TRAFFIC MUST HAVE A FLOWING ALIGNMENT. THE TRANSITION CURVE IS AN IMPORTANT ELEMENT OF MAINTAINING A FLOWING ALIGNMENT.

TABLE OF TYPICAL TAPER LENGTHS FOR VARIABLE SET BACKS 1 IN 16	
VARIANCE IN SET BACKS, mm	MINIMUM TAPER LENGTH, m
250	4.00
350	5.60
450	7.20
550	8.80
650	10.40
750	12.00
900	14.40
1100	17.60
1200	19.20
1600	25.60
1900	30.40
2000	32.00

TABLE OF TYPICAL TAPER LENGTHS FOR VARIABLE SET BACKS 1 IN 20	
VARIANCE IN SET BACKS, mm	MINIMUM TAPER LENGTH, m
250	5.00
350	7.00
400	8.00
550	11.00
650	13.00
750	15.00
900	18.00
1000	20.00
1200	24.00
1400	28.00
1600	32.00
2000	40.00

#### GENERAL NOTES:

- ON ALL SYSTEMS THE WORKING WIDTH CLASSIFICATIONS THE TAPER LENGTH IS TO BE THE SAME WORKING WIDTH AS THE ADJACENT SYSTEMS.
- LENGTH OF TAPER TO BE DETERMINED FROM CHANGE IN SET BACK MEASUREMENT. FOR NORMAL CONTAINMENT (N2) SYSTEMS THE LENGTH OF TAPER MUST NOT BE LESS THAN 1 IN 16. FOR HIGH CONTAINMENT (H) SYSTEMS THE LENGTH OF TAPER MUST NOT BE LESS THAN 1 IN 20.
- WHERE THE RATE OF CHANGE IN SET BACK IS LESS THAN 1 IN 30 (i.e. 1 IN 35) NO TAPER ARRANGEMENT IS REQUIRED.
- CHANGES IN HORIZONTAL ALIGNMENT BETWEEN THE LEAD-IN AND RUN-OUT LENGTHS OF MEGARAIL ARE TO TAKE PLACE UNIFORMLY OVER THE TAPER LENGTH.
- WHERE CHANGES IN HORIZONTAL ALIGNMENT OCCUR (WHICH MAY ALSO BE DUE TO THE ALTERNATE METHODOLOGY FOR DETERMINING REFERENCE HEIGHT OF BARRIERS - REFER MR-GA001) THIS MAY RESULT IN LOCAL ISOLATED AREAS OF FENCE THAT ARE OUTSIDE THE RANGE OF PERMISSIBLE DIMENSIONS.
- FOR MEGARAIL EP C120 ONLY, MAXIMUM TAPER IS 1 IN 10. PLEASE SEE MEGARAIL EP C120 GA DRAWINGS FOR DETAILS.

07	27.10.23	NOTE 6 ADDED	H.B
06	11.06.21	TAPER DETAILS REVISED	M.T
05	16.03.21	TAPER DETAILS REVISED	M.T
04	12.02.19	TITLEBLOCK REVISED	M.T
03	17.10.18	TAPER DETAILS ADDED	M.T
02	24.01.17	TAPER LENGTHS REVISED	M.T
1.0	21.05.15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

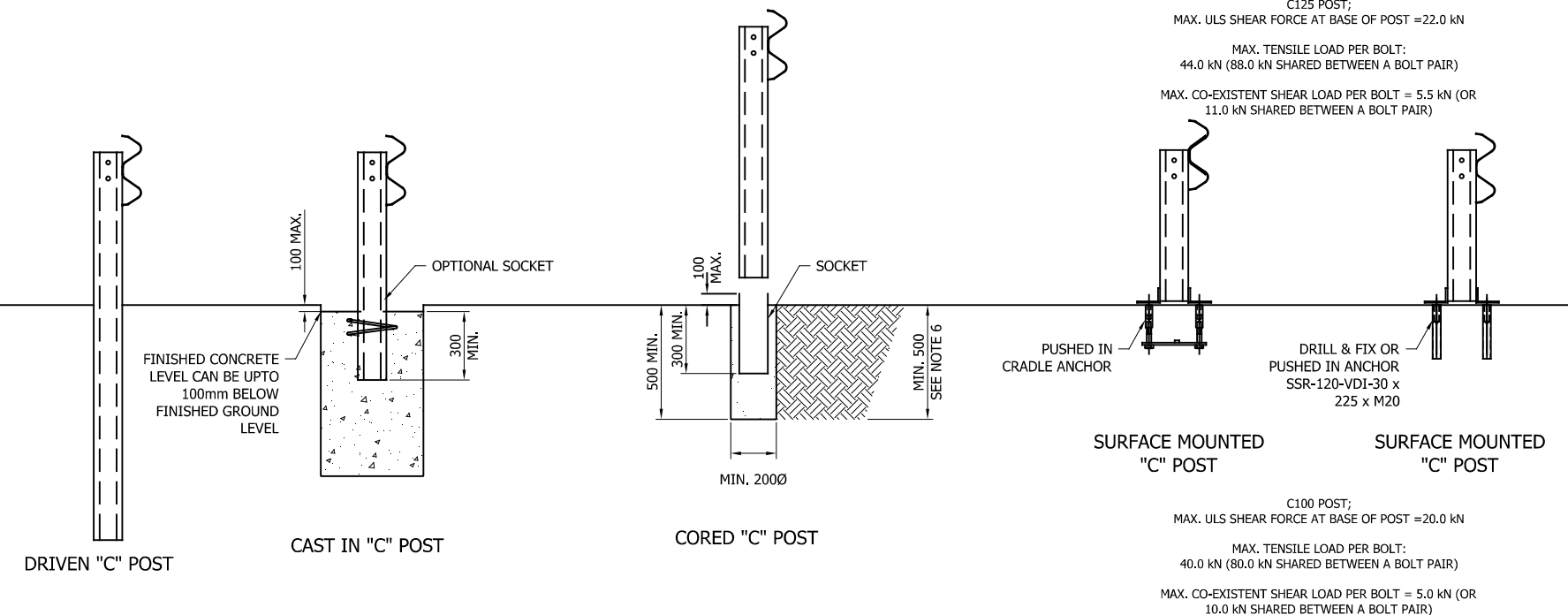
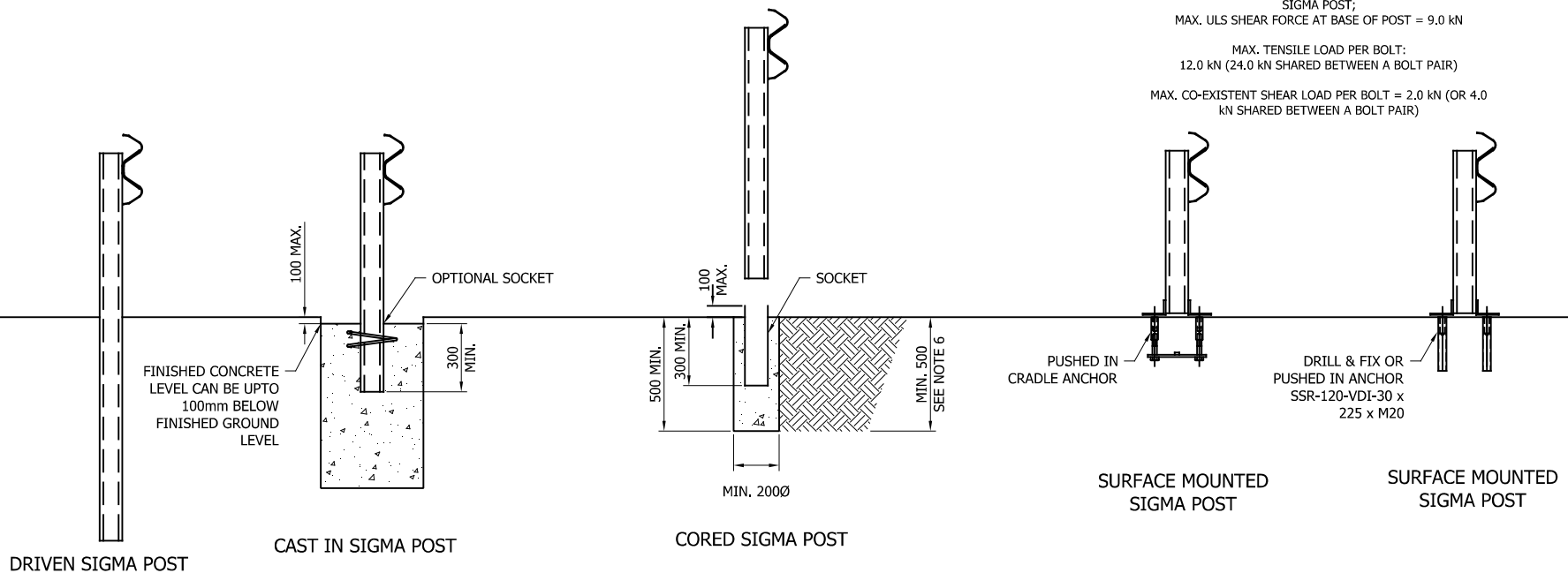
## MegaRail

VEHICLE RESTRAINT SYSTEM  
VERGE AND CENTRAL RESERVE  
TAPER GENERAL ARRANGEMENTS

# SAFEROAD®

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DRAWING NUMBER:	REVn:
MR-GA-010	07



#### GENERAL NOTES:

1. CONCRETE FOUNDATIONS TO BE DESIGNED BY THE CONTRACTOR AND TESTED TO COMPLY WITH THE REQUIREMENTS OF SAFEROAD TESTING PROCEDURE.
2. CONCRETE TO BE PRESCRIBED MIX ST5 OR RC20/25. STRONGER GRADES OF STRUCTURAL CONCRETE ARE ACCEPTABLE.
3. SOCKETS MAY BE INSTALLED FLUSH WITH THE TOP OF CONCRETE, HOWEVER THE PROTRUSION SHOULD NOT EXCEED 100mm. SOCKET PROTRUSIONS WILL AID THE PREVENTION OF DETRITIOUS INCURSION.
4. MINIMUM SOCKET AND OR POST EMBEDMENT IS 300mm.
5. POSTS IN SPECIAL CONCRETE FOUNDATIONS SUCH AS FILTER DRAIN OR SIMILAR MUST BE DESIGNED BY THE CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF THE SAFEROAD TEST PROCEDURE.
6. WHERE POSTS ARE TO BE INSTALLED BY CORING THROUGH EXISTING CARRIAGEWAY THE OVERALL CARRIAGEWAY CONSTRUCTION THICKNESS MUST BE A MINIMUM OF 500mm. THIS MINIMUM INCLUDES COMPACTED SUB-BASE.
7. SCENARIOS ARE SUITABLE FOR ALL POST TYPES.
8. FOR SURFACE MOUNTED POST TEST LOADS, SEE THE MEGARAIL MANUAL.
9. FINISHED CONCRETE FOOTING LEVEL CAN BE UPTO 100mm BELOW FINISHED GROUND LEVEL.

08	19/01/24	MIN. EMBEDMENT REVISED	H.B
07	05.07.23	GENERAL NOTE 2 REVISED	A.D
06	16.10.19	DETAILS ADDED	M.T
05	12.02.19	TITLEBLOCK REVISED	M.T
04	17.10.18	DRILL & FIX DETAILS ADDED	M.T
03	10.03.17	NOTE No. 9 ADDED	M.T
02	24.01.17	ANCHOR DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

## MegaRail

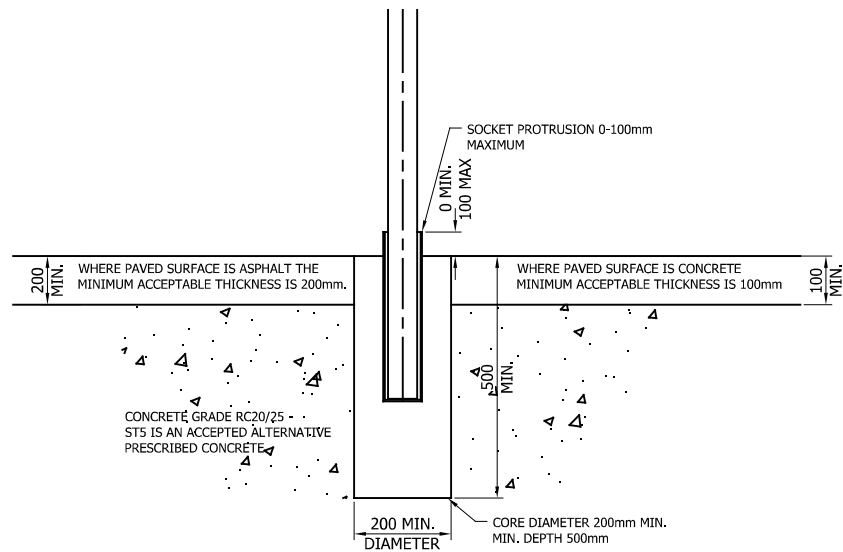
VEHICLE RESTRAINT SYSTEM  
ARRANGEMENTS FOR DRIVEN  
CAST IN AND CORED POSTS

**SAFEROAD**<sup>®</sup>

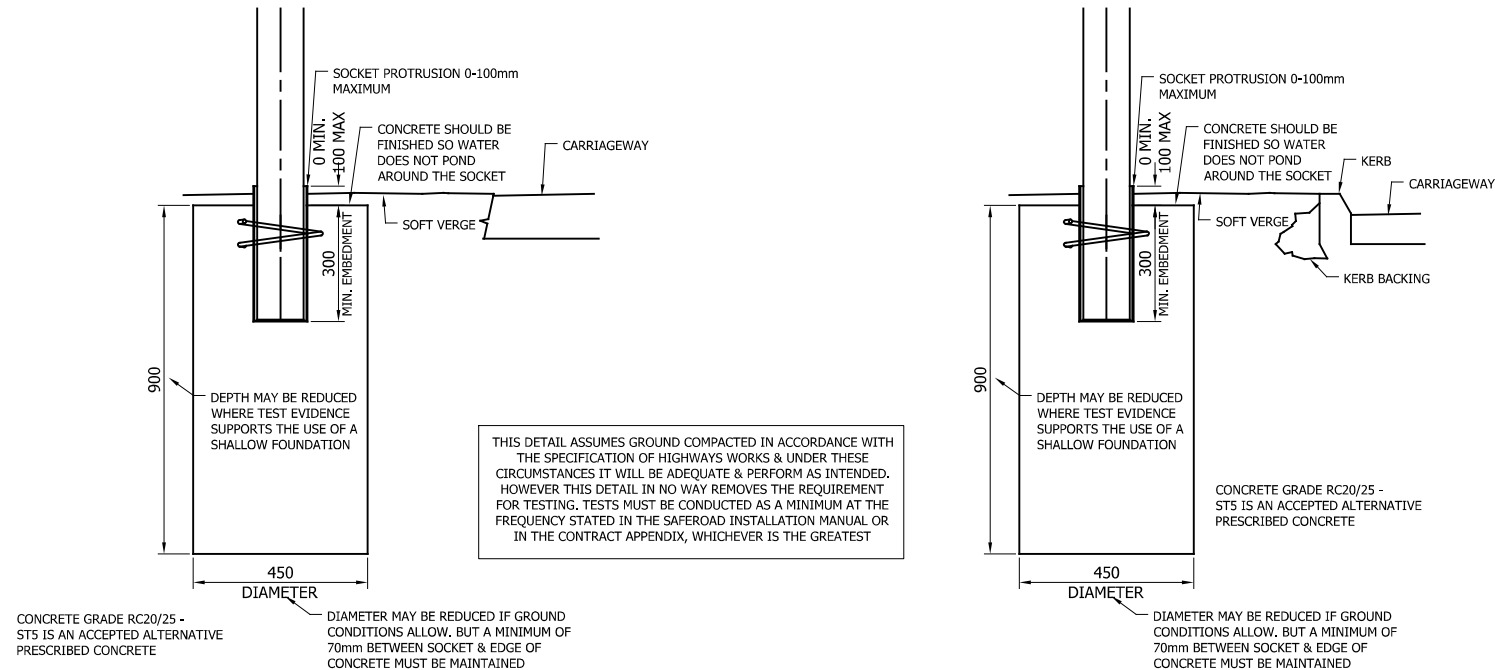
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DRAWING NUMBER:	REVn:
MR-GA-020	08



SAFEROAD CORED FOUNDATION DETAIL



AUGERED FOUNDATION DETAIL

04	19/01/24	MIN. EMBEDMENT REVISED	H.B
03	28.09.22	CONCRETE NOTE REVISED	A.D
02	16.08.21	TITLE BLOCK REVISED	A.D
01	13.02.19	DETAILS REVISED	M.T
00	14.11.18	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

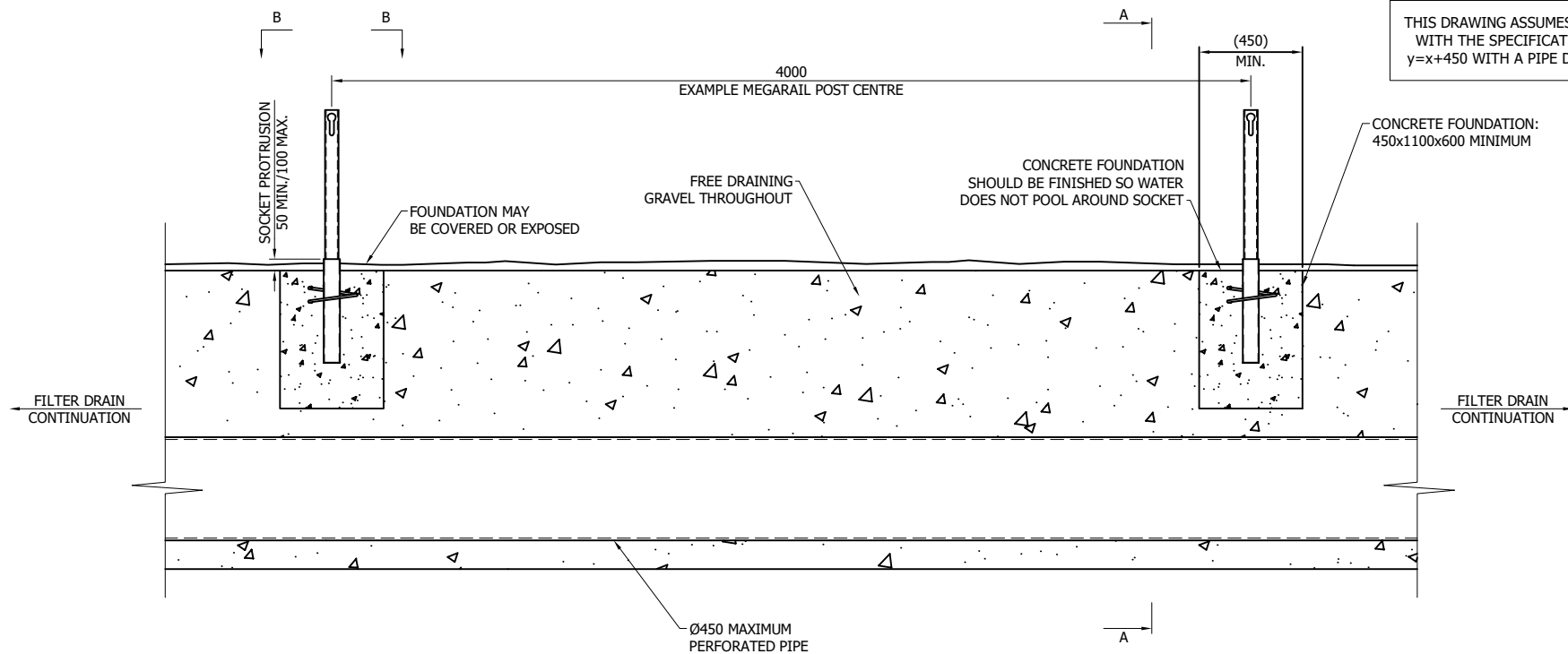
## MegaRail

SAFEROAD FOUNDATION DETAILS  
CORED & AUGERED FOUNDATIONS

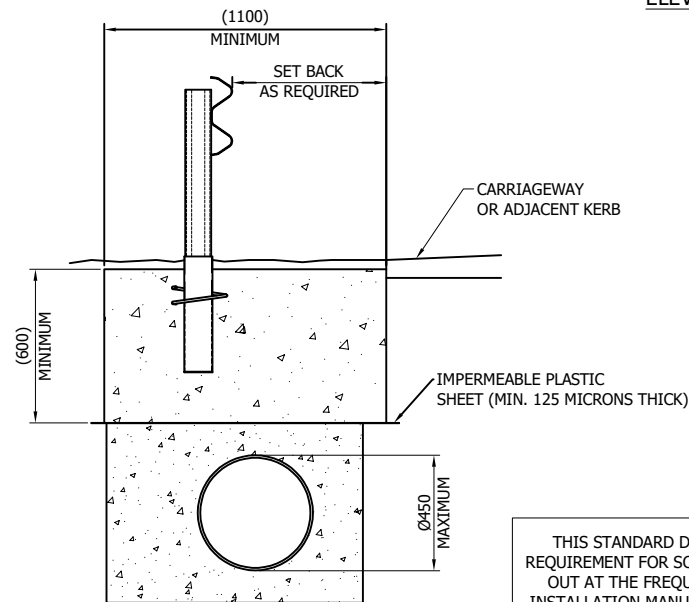
**SAFEROAD**<sup>®</sup>

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DRAWING NUMBER:	REVn:
MR-GA-021	04

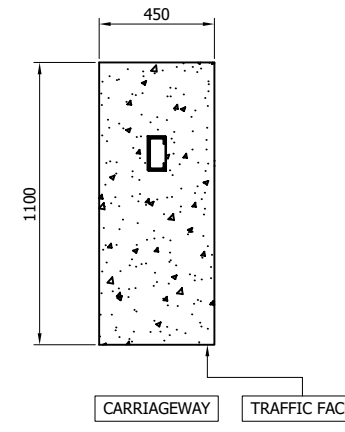


**ELEVATION ON EXAMPLE FILTER DRAIN FOUNDATION**  
SCALE: 1:30



**SECTION A-A**  
(SECTION THROUGH ON TYPICAL FILTER DRAIN)  
SCALE: 1:30

THIS STANDARD DETAIL IN NO WAY REMOVES THE REQUIREMENT FOR SOIL TESTS. TESTS MUST BE CARRIED OUT AT THE FREQUENCY STATED IN THE SAFEROAD INSTALLATION MANUAL OR IN THE CONTRACT APPENDIX (TEST FREQUENCY TO BE THE GREATER OF EITHER)



**SECTION B-B**  
(CONCRETE FOUNDATION ISOLATED FOR CLARITY)  
SCALE: 1:30

THIS DRAWING ASSUMES FILTER DRAIN IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAYS WORKS F2  
 $y=x+450$  WITH A PIPE DIAMETER NOT EXCEEDING Ø450

04	06/11/25	GENERAL DRAWING UPDATE	H.B
03	19/01/24	MIN. EMBEDMENT REVISED	H.B
02	28.09.22	CONCRETE NOTE REVISED	A.D
01	13.02.19	DETAILS REVISED	M.T
00	14.11.18	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

## MegaRail

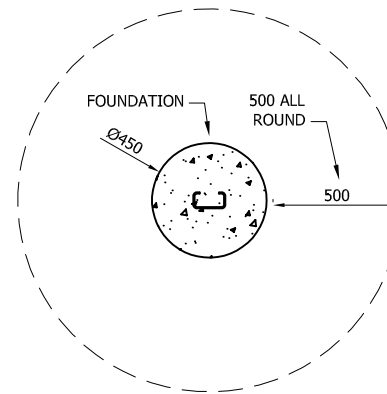
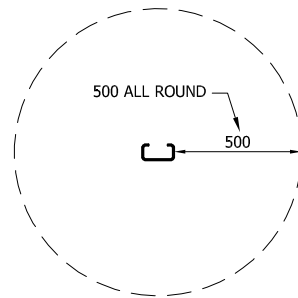
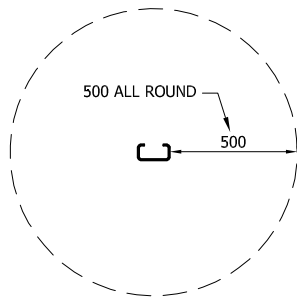
SAFEROAD FOUNDATION DETAILS  
FILTER DRAIN FOUNDATION



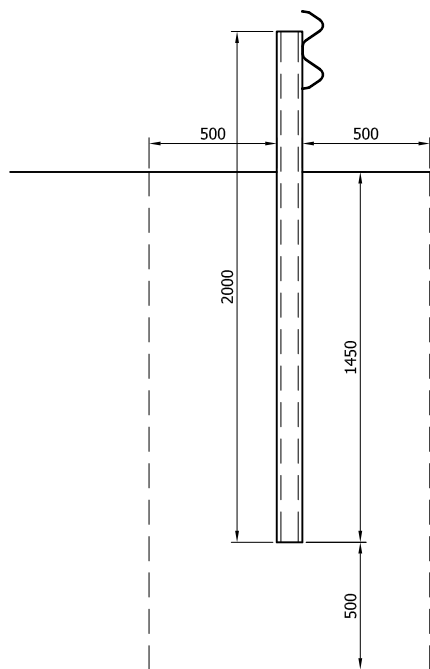
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DRAWING NUMBER:	REVn:
MR-GA-022	04

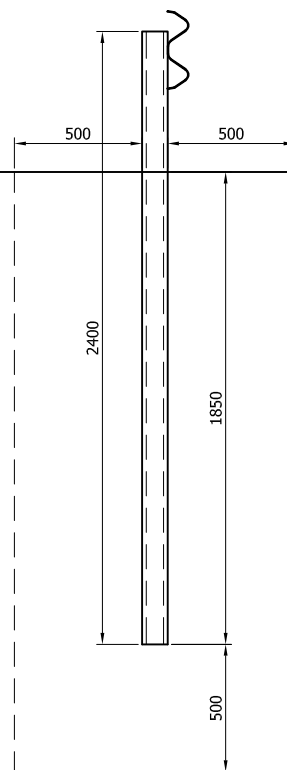




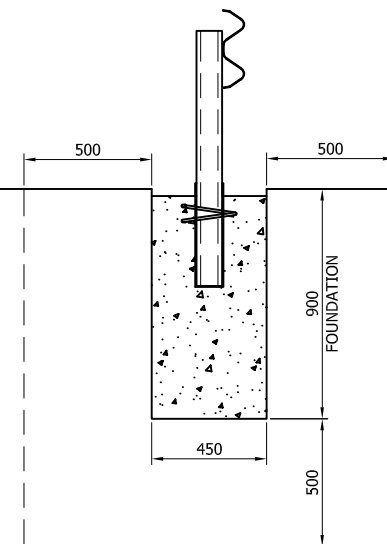
THIS ILLUSTRATION IS TO SHOW 500mm EXCLUSION ZONES TO ENABLE SHW. NO SERVICES/UTILITIES TO BE PLACED WITHIN THESE EXCLUSION ZONES. PLEASE GIVE FURTHER CONSIDERATION TO PLACING SERVICES/UTILITIES WITHIN CLOSE PROXIMITY TO THIS EXCLUSION ZONE AS THIS CAN COMPROMISE SUITABILITY OF THE GROUND. IF GROUND IS NOT COMPACTED & INSTALLED IN ACCORDANCE WITH SHW THEN THERE IS AN INCREASED LIKELIHOOD THE FOUNDATION SHALL FAIL.



2m DRIVEN POST EXCLUSION ZONE



2.4m DRIVEN POST EXCLUSION ZONE



SOCKETED POST EXCLUSION ZONE

00	02.12.19	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

## MegaRail

SAFEROAD POST EXCLUSION ZONE  
DETAILS  
DRIVEN & SOCKETED POSTS

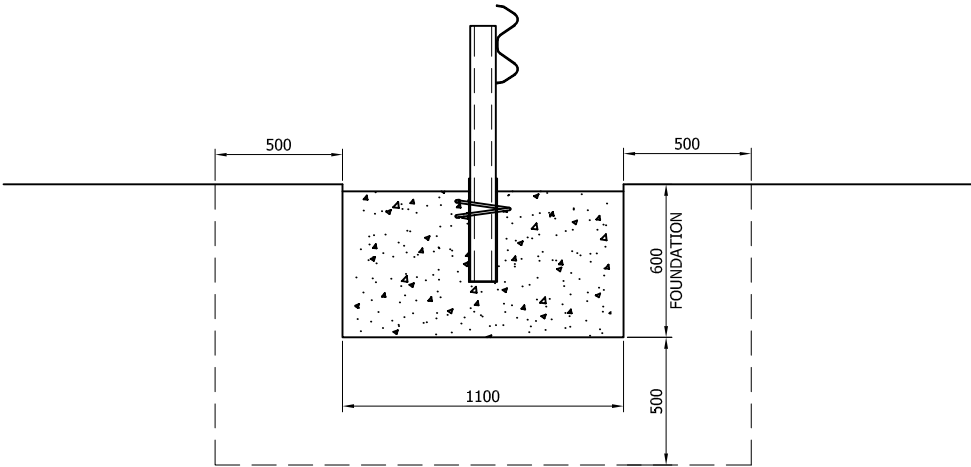
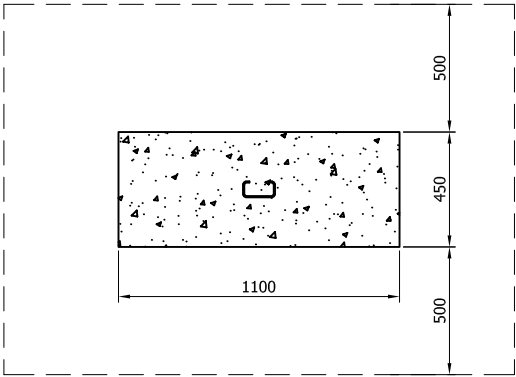
# SAFEROAD®

CONCORD HOUSE,  
BESSEMER WAY, SCUNTHORPE,  
NORTH LINCOLNSHIRE, DN15 8XE  
t: 01724 289119  
FOR TECHNICAL ASSISTANCE CONTACT  
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
MR-GA-023	00

THIS ILLUSTRATION IS TO SHOW 500mm EXCLUSION ZONES TO ENABLE A SAFE WORKING ZONE. NO SERVICES/UTILITIES TO BE PLACED WITHIN THESE EXCLUSION ZONES. PLEASE GIVE FURTHER CONSIDERATION TO PLACING SERVICES/UTILITIES WITHIN CLOSE PROXIMITY TO THIS EXCLUSION ZONE AS THIS CAN COMPROMISE SUITABILITY OF THE GROUND. IF GROUND IS NOT COMPACTED & INSTALLED IN ACCORDANCE WITH SHWTHEN THERE IS AN INCREASED LIKELIHOOD THE FOUNDATION SHALL FAIL.

SEE SPECIFICATION FOR HIGHWAYS WORKS DRAWINGS B1 & B2.



FOUNDATION EXAMPLE EXCLUSION ZONE

00	02.12.19	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

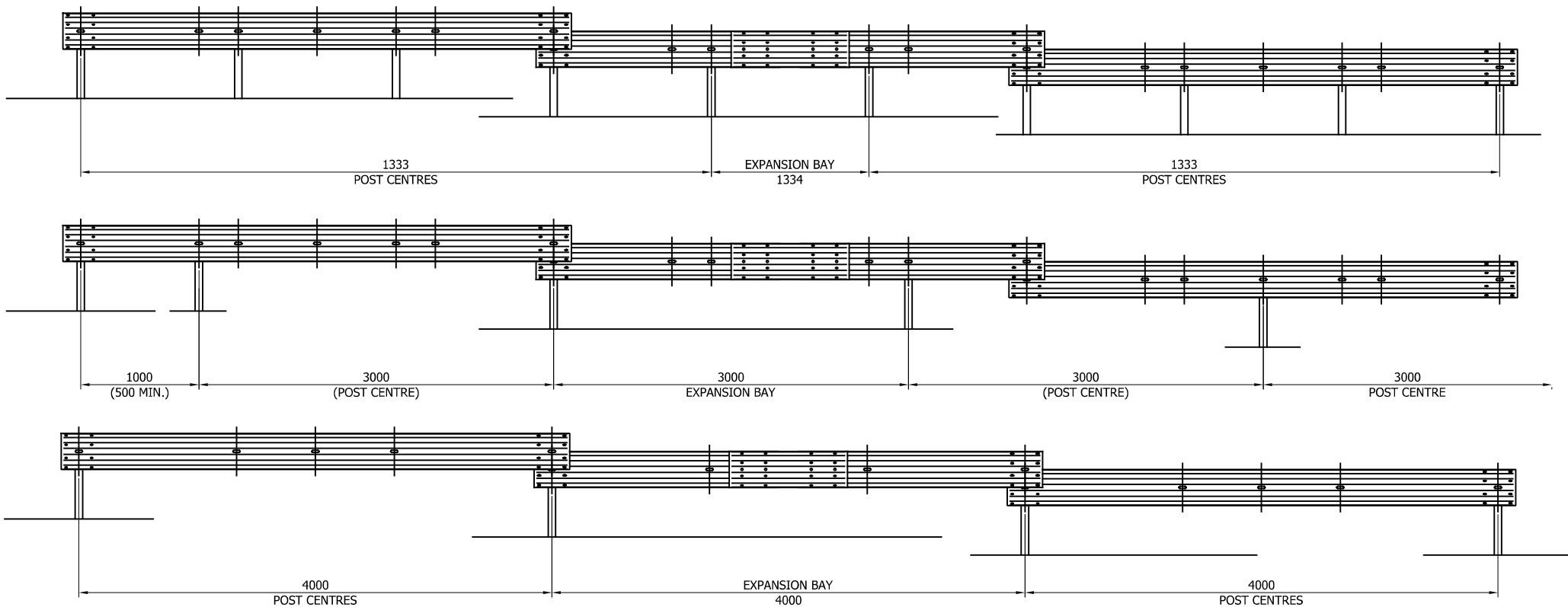
MegaRail

SAFEROAD POST EXCLUSION ZONE  
DETAILS  
FOUNDATION EXAMPLE

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DRAWING NUMBER:	REVn:
MR-GA-024	00

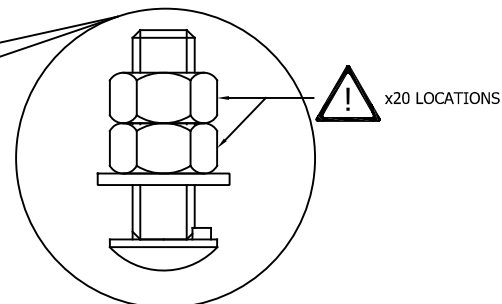
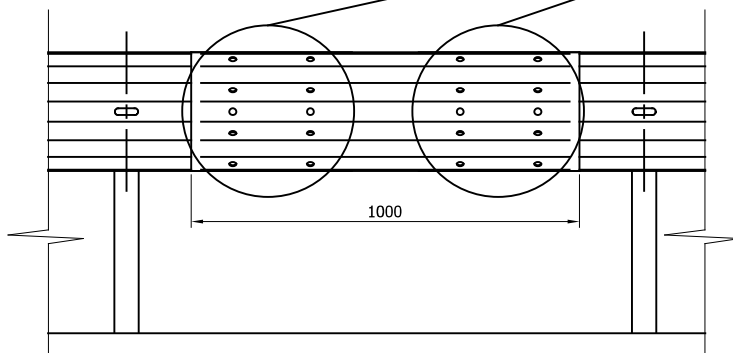


#### FOR SYSTEMS USING 3M POST CENTRES:

PERMISSABLE DEVIATIONS TO BE APPLIED (500MM MIN.) IN LEAD UP TO EXPANSION BAY. PERMISSABLE DEVIATIONS AS DETAILED WITHIN exH1W2-GA-40

#### FOR SYSTEMS USING 2M POST CENTRES:

PERMISSABLE DEVIATIONS CAN ALSO BE APPLIED 2M POST CENTRE SYSTEMS IN LEAD UP TO EXPANSION BAY. PERMISSABLE DEVIATIONS AS DETAILED SYSTEM GA DRAWINGS (GA-40), EXPANSION BAY POST ARRANGEMENT TO BE AS PER 1333 SYSTEM ARRANGEMENT



#### GENERAL NOTES:

1. EXPANSION BEAM ASSEMBLY IS SUPPLIED PRE-ASSEMBLED AND IS NOT TO BE DISMANTLED.FOR SYSTEMS AT STANDARD POST CENTRES OF 1333mm NO. MODIFICATION TO THE POST CENTRES SHOULD BE NECESSARY.
2. DIMENSIONS SUFFIXED WITH \* HAVE BEEN REDUCED FROM THE STANDARD SYSTEM POST PITCH TO REDUCE POCKETING EFFECTS.
3. ILLUSTRATIONS ARE NOT EXHAUSTIVE AND OTHER ALTERNATIVES WITHIN THE SYSTEM DEVIATION AND PROGRESSION RULES ARE PERMITTED.

05	17.06.24	DETAILS REVISED	H.B
04	25.05.21	DETAILS REVISED	M.T
03	12.02.19	TITLEBLOCK REVISED	M.T
02	24.01.17	SYSTEMS, DETAILS REVISED	M.T
1.0	21.05.15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

## MegaRail

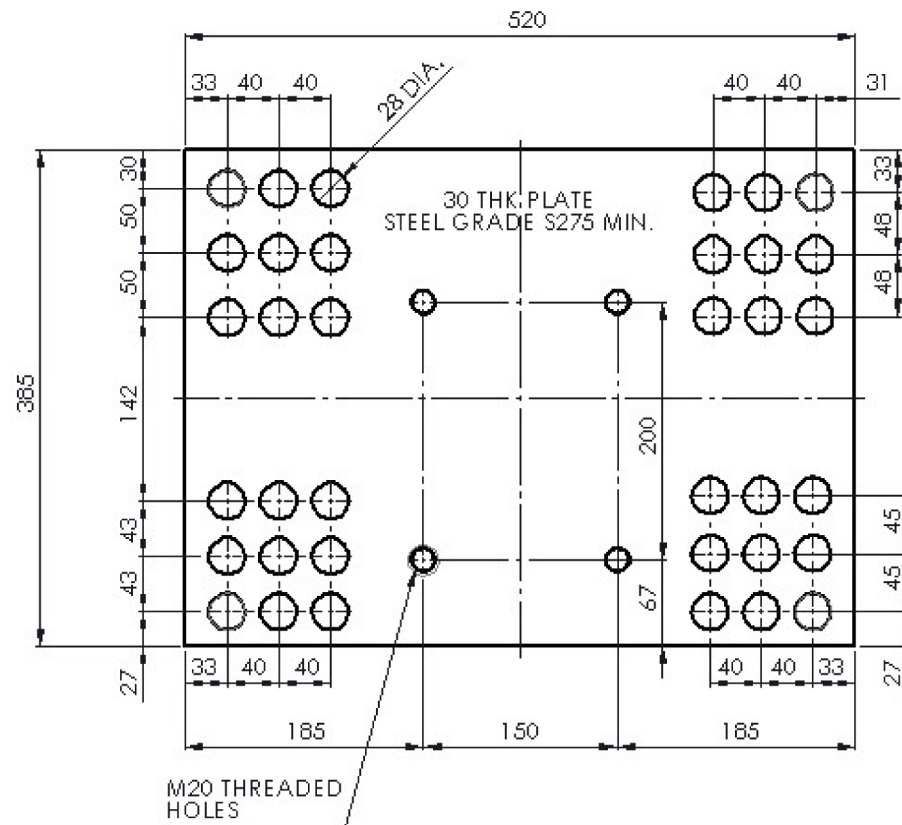
VEHICLE RESTRAINT SYSTEM  
TYPICAL ARRANGEMENT FOR  
SYSTEM MODIFICATION AT  
EXPANSION JOINT LOCATIONS



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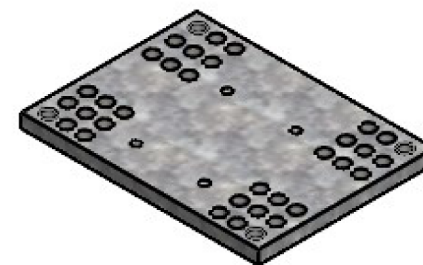
DRAWING NUMBER:	REVn:
MR-GA-025	05

- GENERAL NOTES;
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. PLATE DESIGN SHOWN TO BE 520x385x30 THK STEEL GRADE S275 MIN.
  3. HOLE POSITIONING MAY VARY SLIGHTLY TO COINCIDE WITH SPECIFIC STRUCTURES REQUIREMENTS.
  4. PLATES TO BE GALVANISED TO BS EN ISO 1461.



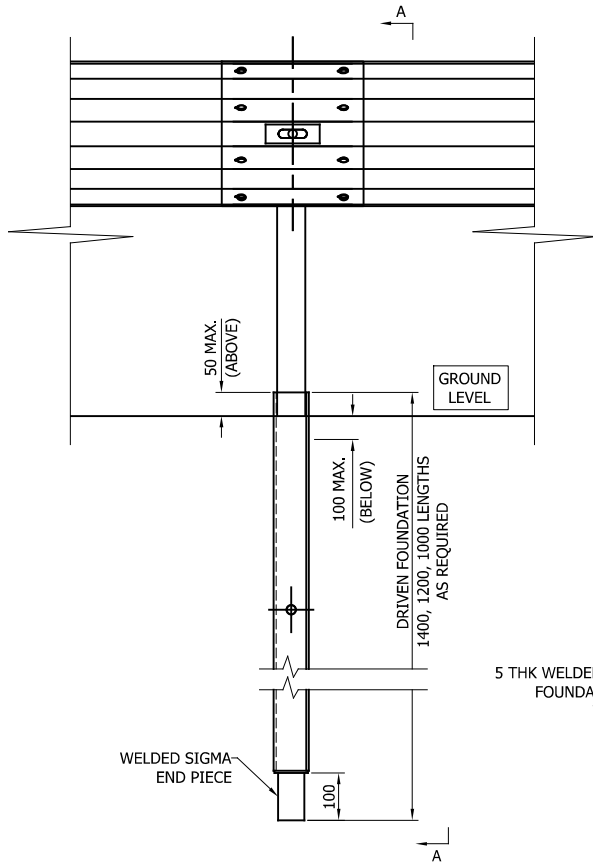
TYPICAL PLATE DETAIL

COMPONENT WEIGHT: 41.8 kg



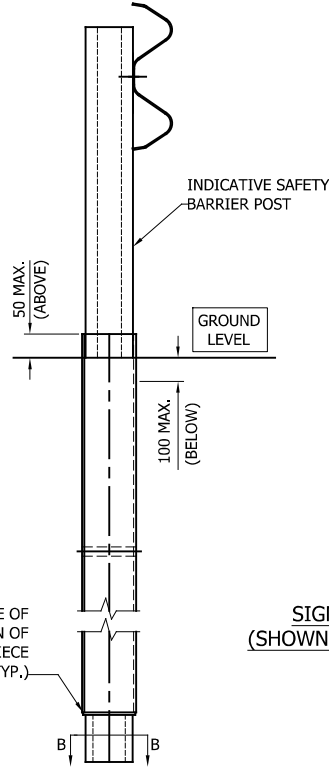
ISOMETRIC VIEW

00	18.02.22	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL
<b>MegaRail</b> STEEL PLATE FOUNDATION			
<b>SAFEROAD®</b> CONCORD HOUSE, BESSEMER WAY, SCUNTHORPE, NORTH LINCOLNSHIRE, DN15 8XE t: 01724 289119 FOR TECHNICAL ASSISTANCE CONTACT john.cudlipp@saferoad.co.uk			
DRAWING NUMBER:			REVn:
MR-GA-026			00



**ELEVATION ON INDICATIVE  
SAFETY BARRIER INSTALLED WITH DRIVEN FOUNDATION**  
SCALE: 1:16

5 THK WELDED PLATE ON UNDERSIDE OF  
FOUNDATION FOR CONNECTION OF  
WELDED SIGMA END PIECE  
(SIZE AS PER POST TYP.)



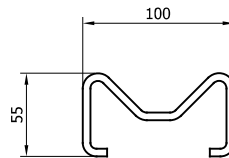
**SECTION A-A  
(SIDE ELEVATION ON EXAMPLE DRIVEN FOUNDATION)**  
SCALE: 1:16

**LIMITS ON FOUNDATION  
(WITH GROUND LEVEL AS 0MM DATUM)**

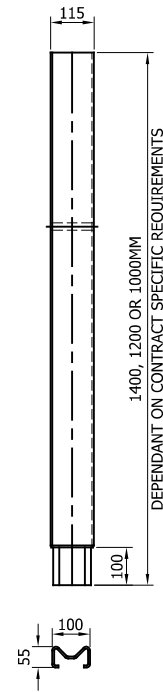
ABOVE GROUND LEVEL: +50MM  
BELOW GROUND LEVEL: -100MM

**GENERAL NOTES:**

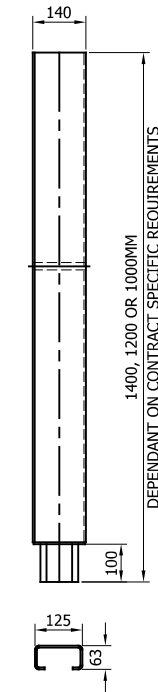
1. ALL DIMENSIONS IN MM UNLESS STATED OTHERWISE
2. DRIVEN FOUNDATION LENGTHS TO BE AS CONTRACT REQUIRES
3. POSTS TO BE INSTALLED WITH CLOSED FACE TOWARDS ONCOMING TRAFFIC
4. FOR INSTALLATION TOLERANCES ABOVE/BELOW GROUND LEVEL, REFER TO ABOVE NOTATION



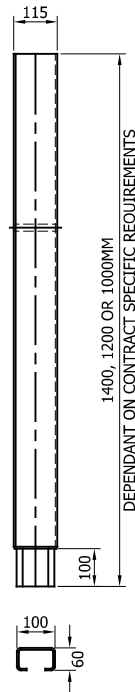
**SECTION B-B  
(SECTION ON WELDED SIGMA END PIECE)**  
SCALE: 1:5



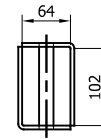
**SIGMA DRIVEN FOUNDATION  
(SHOWN WITH SIGMA POST SECTION)**  
SCALE: 1:20



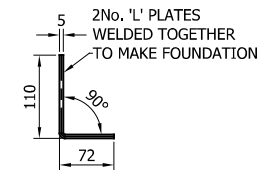
**C125 DRIVEN FOUNDATION  
(SHOWN WITH C125 POST SECTION)**  
SCALE: 1:20



**C100 DRIVEN FOUNDATION  
(SHOWN WITH C100 POST SECTION)**  
SCALE: 1:20



**INTERNAL SIZE  
EXAMPLE**  
SCALE: 1:10



**'L' PLATE  
EXAMPLE DETAIL**  
SCALE: 1:10

**DRIVEN FOUNDATION INTERNAL DIMENSIONS TABLE**

POST TYPE	FOUNDATION INTERNAL DIMENSIONS
SIGMA	105 x 62
C125	130 x 68
C100	104 x 64

01	03/03/23	TOLERANCES UPDATED	H.B
00	31/05/22	DRAWING CREATED	H.B
REVn	DATE	DETAILS	INITIAL

**MEGARAIL**

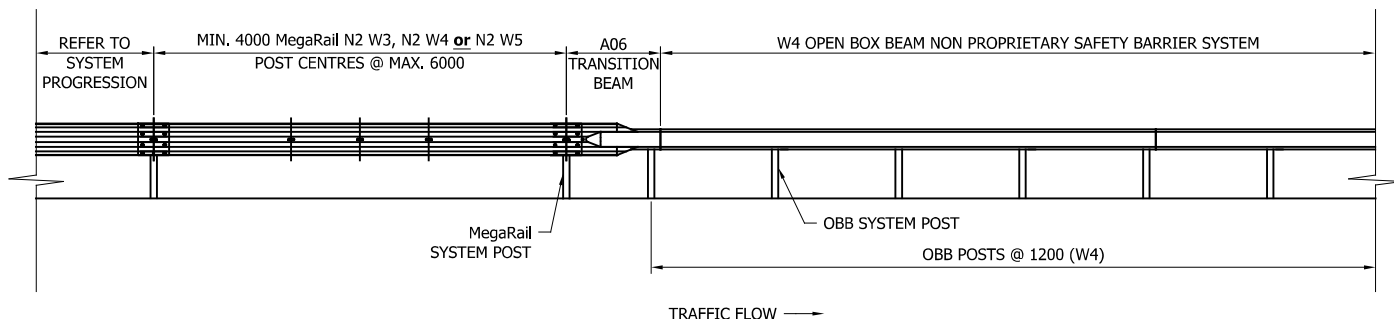
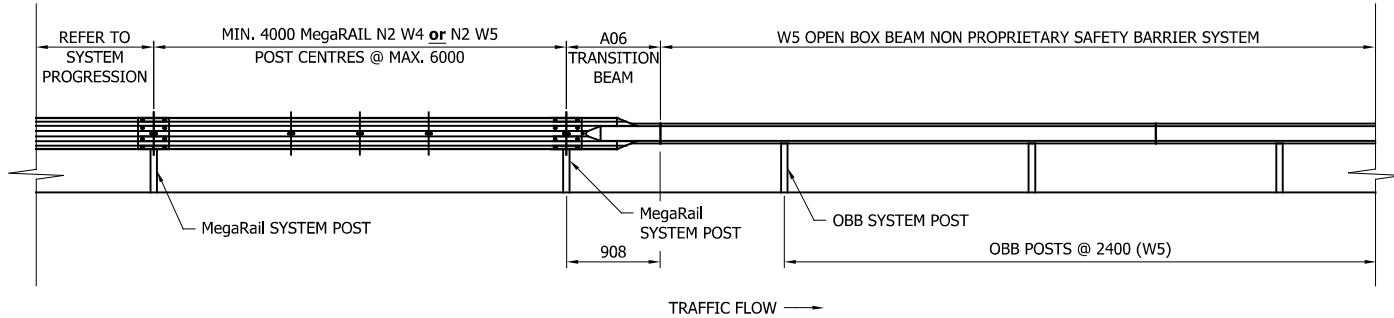
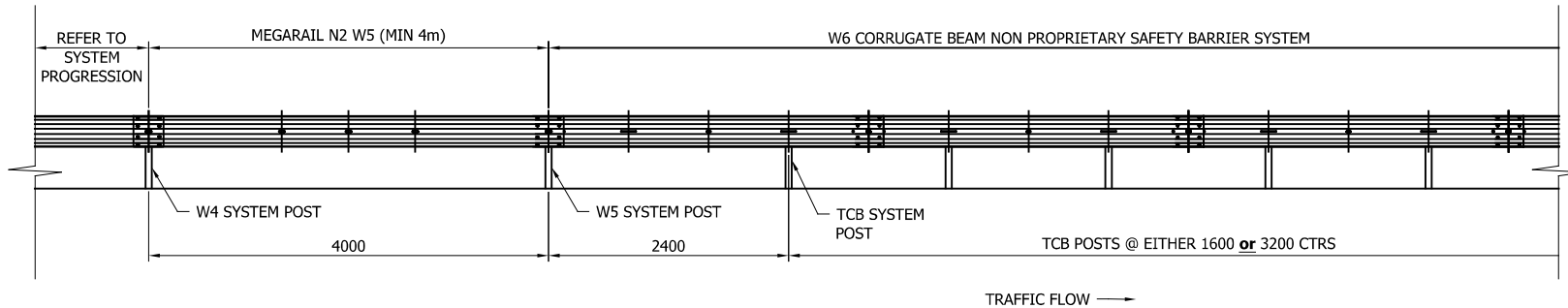
**DRIVEN FOUNDATION DETAILS**

PLEASE BE ADVISED, SAFEROAD OWN  
THE INTELLECTUAL PROPERTY RIGHTS TO THIS  
INNOVATION

**SAFEROAD®**

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DRAWING NUMBER: MR-GA-027 REVn: 01



#### GENERAL NOTES:

1. POST MAY BE EITHER DRIVEN, SET IN CONCRETE, SURFACE MOUNTED OR ANY COMBINATION OF THE THREE OPTIONS.
2. WHEN REMOVING NPSBS TO INTRODUCE A P4 TERMINAL, ENSURE THAT THE MINIMUM LENGTH OF NEED IS MAINTAINED IN ACCORDANCE WITH CD377 CHAPTER 3 'LENGTH OF NEED' CLAUSE 3.12 TO CLAUSE 3.14.

06	23.09.24	DRAWING UPDATED	H.B
05	26.07.21	NOTE REVISED ON TOP ELEVATION	A.D
04	25.05.21	NOTES REVISED	M.T
03	12.02.19	TITLEBLOCK REVISED	M.T
02	24.01.17	DETAILS UPDATED	M.T
1.0	21.05.15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

## MegaRail

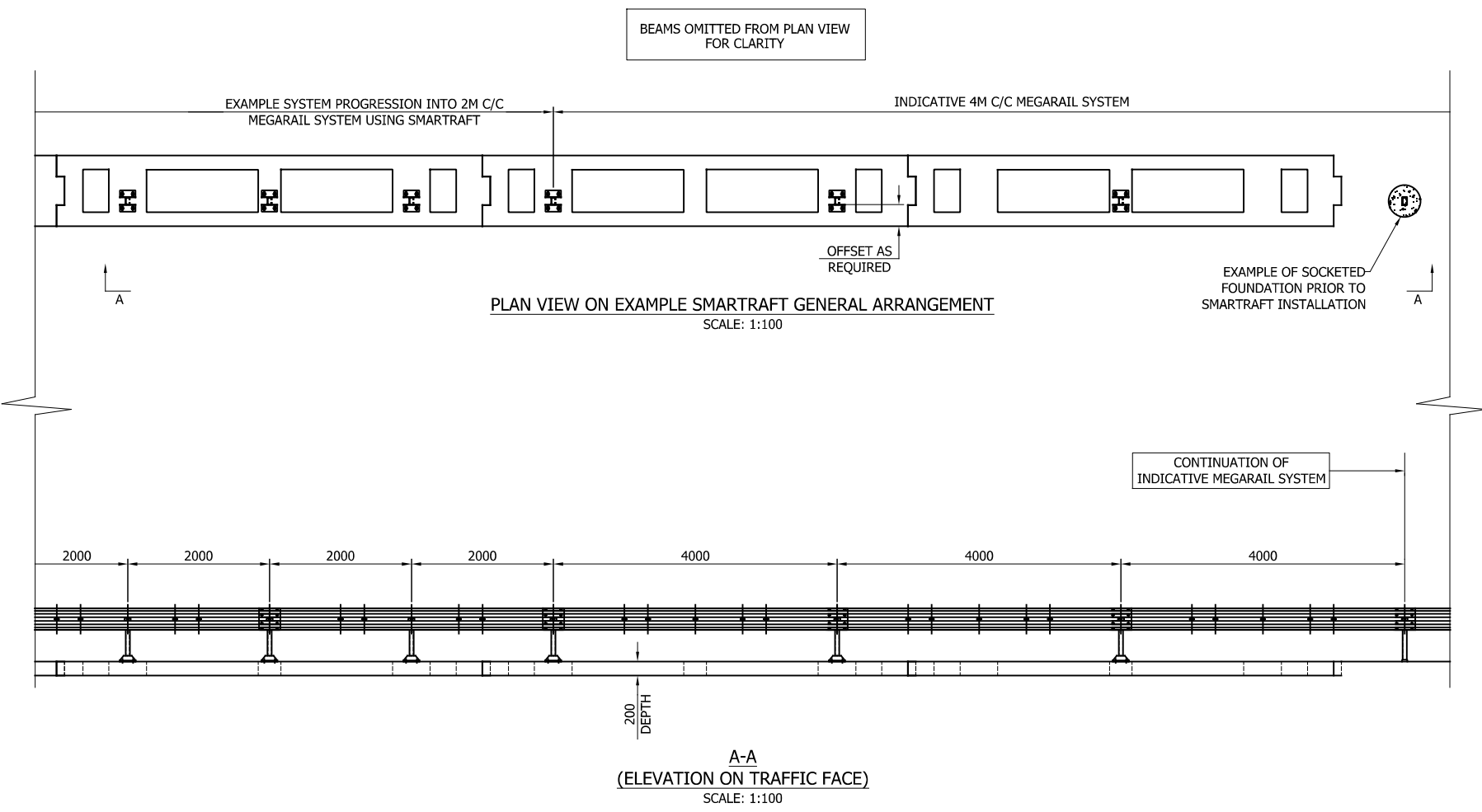
VEHICLE RESTRAINT SYSTEM  
ARRANGEMENT FOR MEGARAIL TO  
NON-PROPRIETARY SAFETY BARRIER  
SYSTEMS



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DRAWING NUMBER:	REVn:
MR-GA-040	06

- GENERAL NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. SMARTRAFT EXAMPLE SHOWN WITH INDICATIVE LINEAR MEGARAIL SAFETY BARRIER SYSTEM.
  3. SMARTRAFT MAY ALSO BE INSTALLED WITH SOCKETED POSTS



SMARTRAFT EXAMPLE DETAILED WITH SURFACE MOUNTED INDICATIVE LINEAR MEGARAIL SAFETY BARRIER SYSTEM. SMARTRAFT IS SUITABLE FOR USE WITH MAJORITY OF SAFEROADS MEGARAIL PRODUCT RANGE

**SAFEROAD**  
MODULAR HIGHWAY SOLUTIONS

SAFEROAD RECOMMENDS  
SMARTRAFT AS AN ALTERNATIVE  
VRS FOUNDATION TYPE

03	24/09/24	NOTE UPDATED	H.B
02	27/08/24	DRAWING UPDATED	H.B
01	23.07.21	WORKING WIDTH NOTE REVISED	A.D
00	05.02.21	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

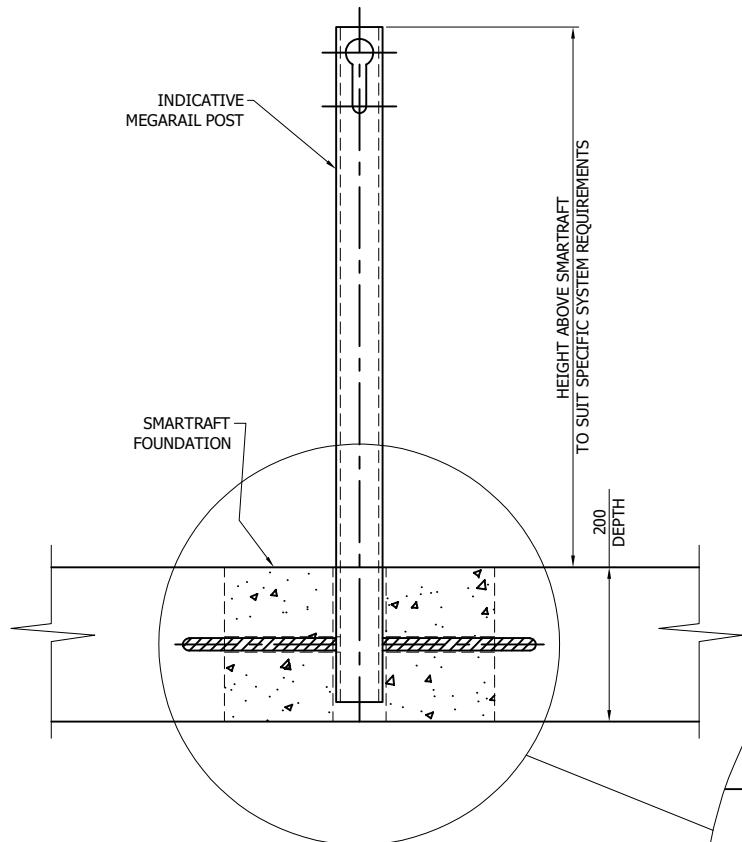
## SMARTRAFT

GENERAL ARRANGEMENT DETAIL  
SHOWN WITH INDICATIVE MEGARAIL  
SYSTEM

**SAFEROAD**

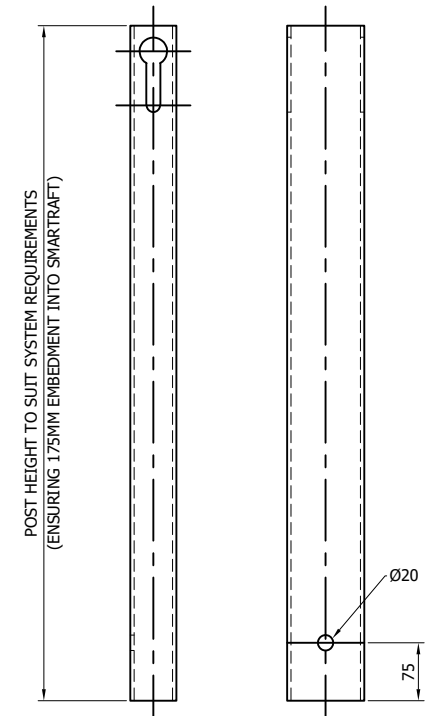
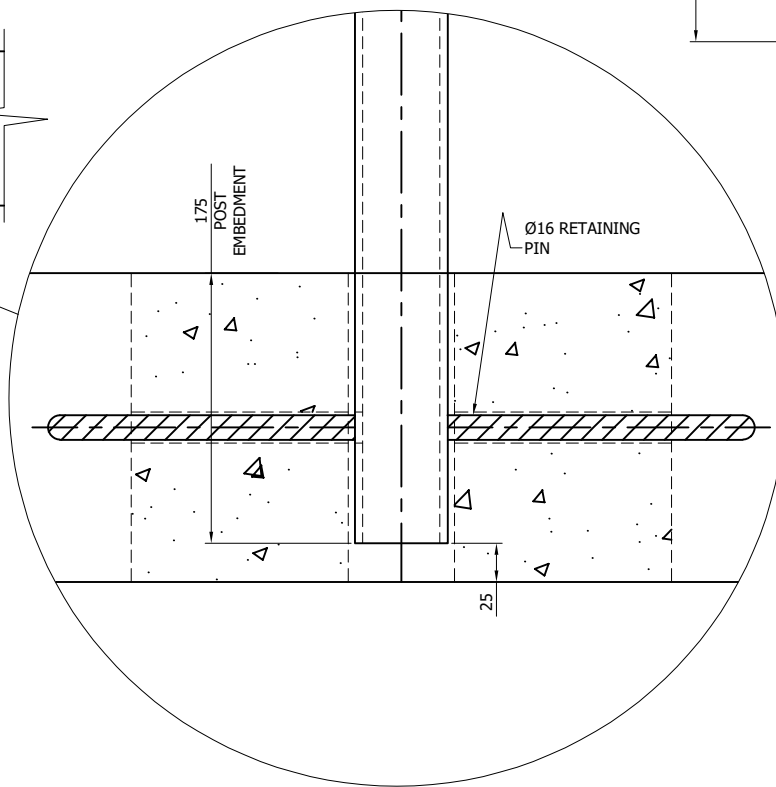
CONCORD HOUSE,  
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john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
MR-GA-41	03



INSTALLATION OF PINNED POST INTO  
SMARTRAFT FOUNDATION SCHEMATIC  
(VIEW ON TRAFFIC FACE)  
SCALE: 1:10

PINNED POSTS MAY BE INSTALLED WITH POST CAPS,  
SLID DOWN THE POST TO ENSURE PEDESTRIAN SAFETY  
WHEN WALKING ADJACENT TO MEGARAIL SYSTEM



INDICATIVE MEGARAIL  
PINNED POST DETAILS  
SCALE: 1:10

- GENERAL NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. FOR FURTHER DETAILS ON SMARTRAFT FOUNDATION, SEE MR-GA-41
  3. PLEASE SEE MEGARAIL MANUAL FOR LIST OF SYSTEMS APPROVED FOR USE WITH SMARTRAFT FOUNDATION

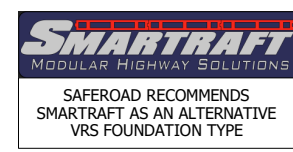
01	27/06/25	PIN DETAIL AMENDED	H.B
00	28/03/25	DRAWING CREATED	H.B
REVn	DATE	DETAILS	INITIAL

## SMARTRAFT

PINNED POST GENERAL  
ARRANGEMENT DETAIL  
(SHOWN WITH INDICATIVE  
MEGARAIL SYSTEM)



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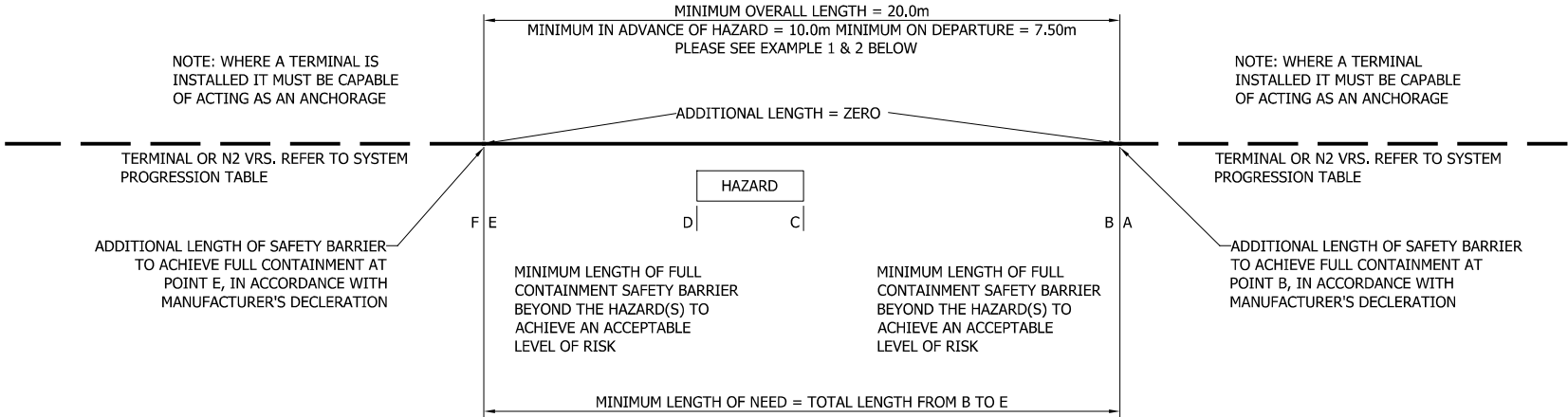


DRAWING NUMBER:	REVn:
MR-GA-41A	01



CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

ALL SYSTEMS INCLUSIVE OF ep ETC. WHEN USED FOR N2 CONTAINMENT



EXAMPLE 1:

LENGTH OF NEED IDENTIFIED AS 12.0m. 6.0M IN ADVANCE & 6.0m ON DEPARTURE. MINIMUM 10.0m IN ADVANCE WOULD DICTATE THE VRS HAS TO BE EXTENDED BY 4.0m TO ACHIEVE THE MINIMUM LENGTH OF FULL CONTAINMENT  
LENGTH OF HAZARD = 9.0m LENGTH OF VRS NOW = 19.0m  
LENGTH OF FULL CONTAINMENT ON THE DEPARTURE IS 6.0m THIS WILL NEED TO BE EXTENDED TO 7.5m TO ACHIEVE THE MINIMUM LENGTH OF FULL CONTAINMENT.  
TOTAL LENGTH OF THE VRS = 26.5m ROUNDED UP TO THE NEAREST UNIT LENGTH.

EXAMPLE 2:

LENGTH OF FULL CONTAINMENT IS 22.0m ON APPROACH & 8.0m ON DEPARTURE THE APPROACH LENGTH WOULD BE THE 22.0m IDENTIFIED IN APPENDIX 4/1 TO ACHIEVE THE MINIMUM 22.0m FULL CONTAINMENT.  
LENGTH OF HAZARD = 9.0m LENGTH OF VRS NOW = 31.0m  
THE DEPARTURE LENGTH WOULD BE THE 8.0m IDENTIFIED IN APPENDIX 4/1 TO ACHIEVE THE MINIMUM 8.0m CONTAINMENT.  
TOTAL LENGTH = 39.0m ROUNDED UP TO THE NEAREST UNIT LENGTH.

02	27/03/25	NOTE UPDATED	H.B
01	25.05.21	DETAILS REVISED	M.T
00	05.02.21	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

MegaRail

CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

N2 SYSTEMS

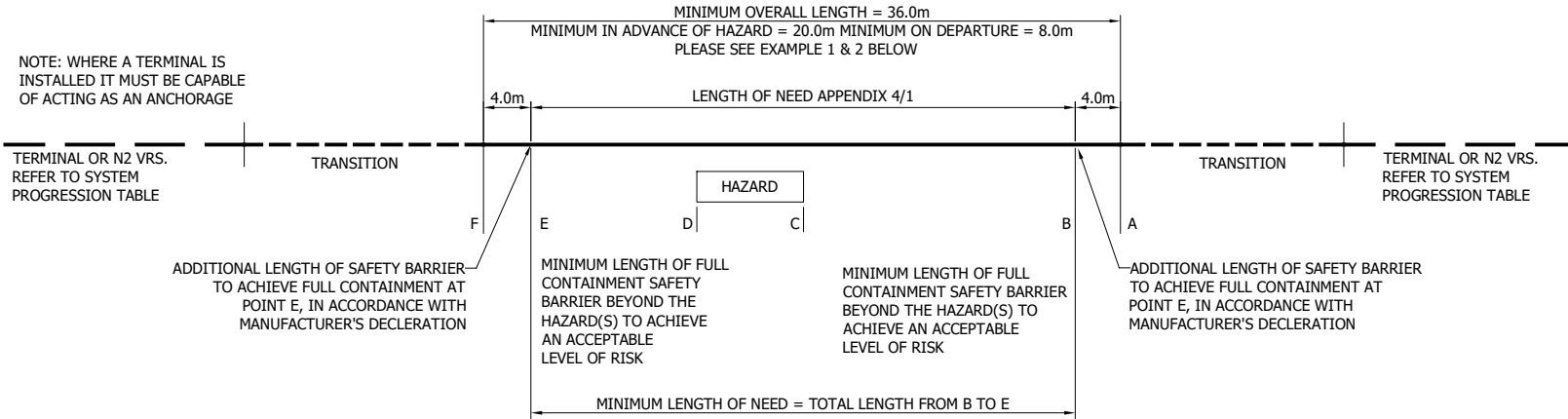


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DRAWING NUMBER:	REVn:
MR-GA-042	02

CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

HIGH CONTAINMENT SYSTEMS H1 & H2 WHERE THE LENGTH OF NEED ON THE APPROACH IS LESS THAN 30.0m OR ON DEPARTURE LESS THAN 10.5m.  
WHERE THE LENGTH OF NEED IS EQUAL TO OR GREATER THAN 30 & 10.5 LENGTHS A TO B & E TO F = ZERO



EXAMPLE 1:

LENGTH OF FULL CONTAINMENT IDENTIFIED AS 12.0m IN ADVANCE & 6.0m ON DEPARTURE  
MINIMUM 20.0m IN ADVANCE WOULD INCOPORATE THE 4.0m OUTSIDE OF THE LENGTH OF FULL CONTAINMENT.  
LENGTH OF HAZARD = 9.0m LENGTH OF VRS NOW = 29.0m.  
LENGTH OF NEED ON DEPARTURE 6.0m + 4.0m E TO F = 10.0m  
TOTAL LENGTH OF THE VRS = 39.0m ROUNDED UP TO THE NEAREST UNIT LENGTH.

EXAMPLE 2:

LENGTH OF FULL CONTAINMENT IDENTIFIED AS 22.0m ON APPROACH & 2.0m ON DEPARTURE.  
THE APPROACH LENGTH WOULD BE THE 22.0m IDENTIFIED IN APPENDIX 4/1 PLUS THE 4.0m A TO B = 26.0m  
LENGTH OF HAZARD 9.0m. LENGTH OF VRS NOW 35.0m  
THE DEPARTURE LENGTH WOULD BE THE 2.0m IDENTIFIED IN APPENDIX 4/1 + 4.0m  
E TO F = 6.0m + 2.0m TO ACHIEVE THE MINIMUM 8.0m.  
TOTAL LENGTH 43.0m ROUNDED UP TO THE NEAREST UNIT LENGTH.

00	05.02.21	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

MegaRail

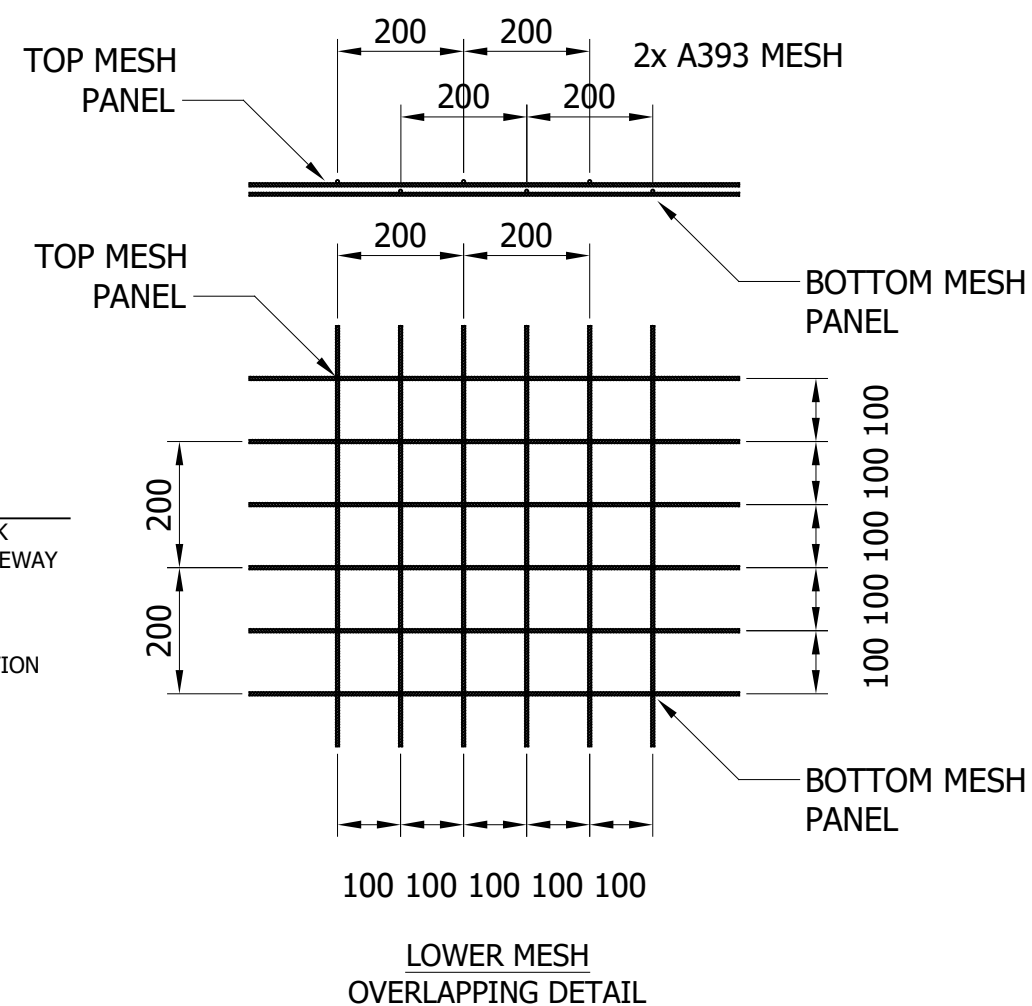
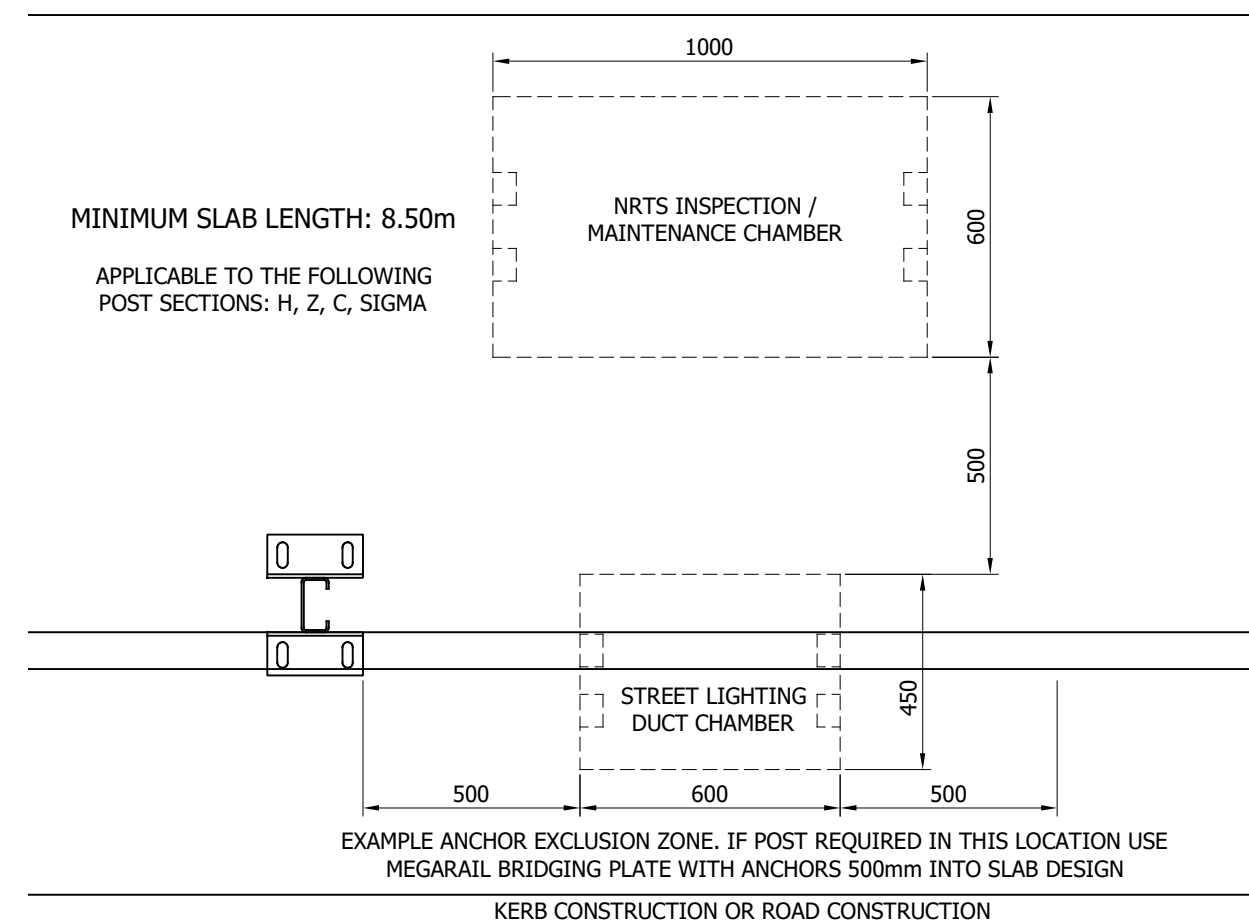
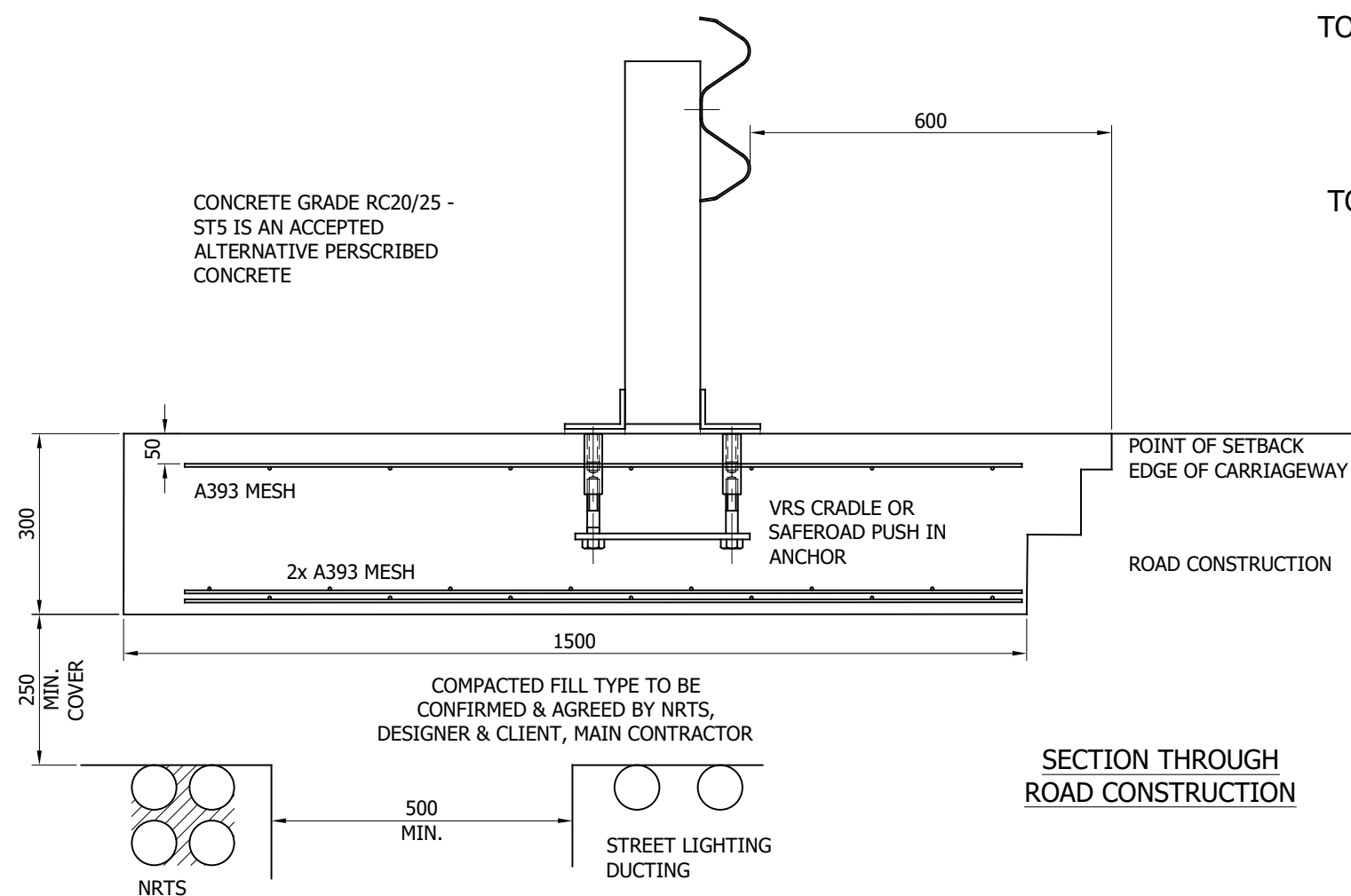
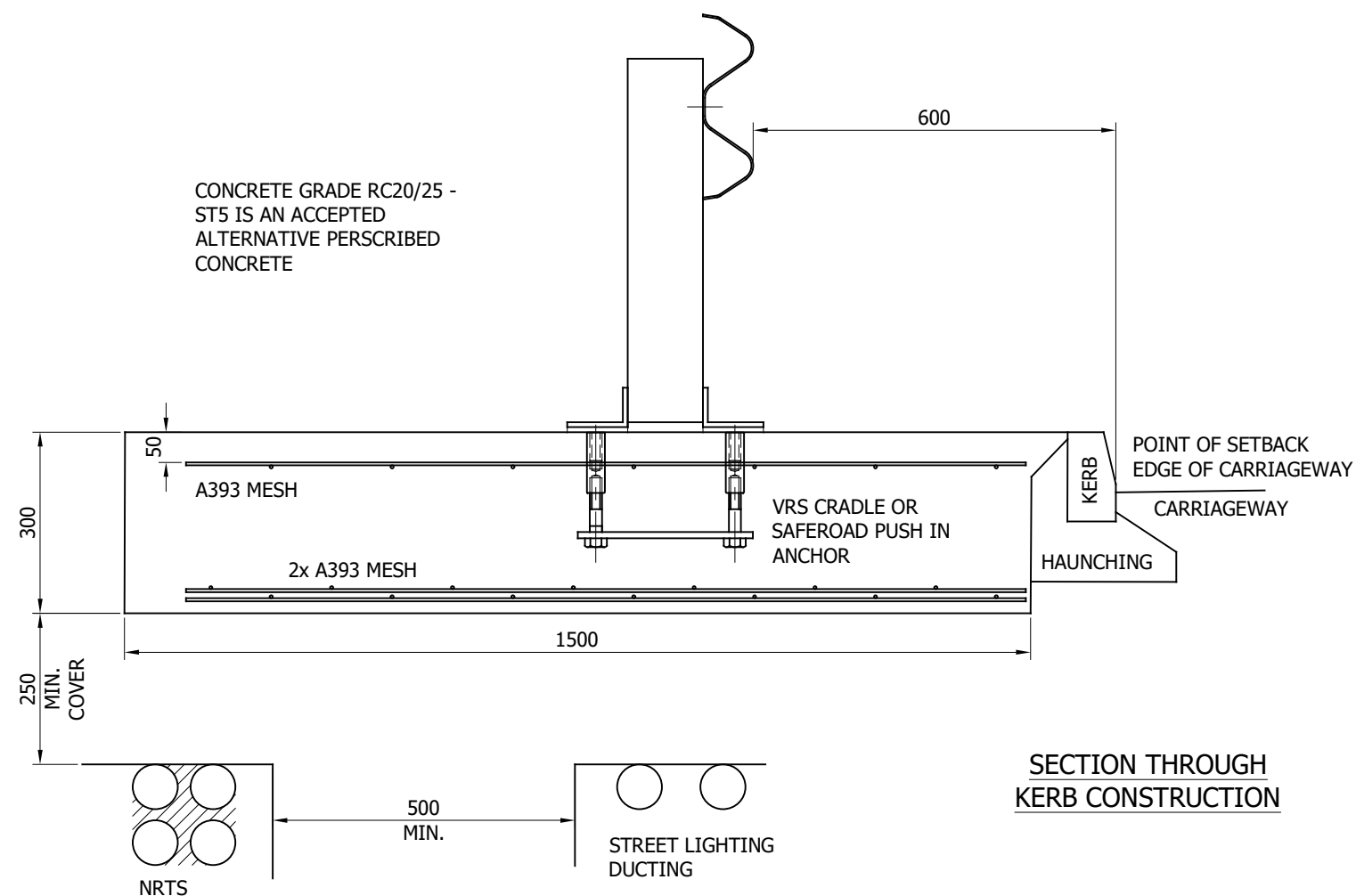
CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

HIGH CONTAINMENT (H1 & H2)

SAFEROAD®

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DRAWING NUMBER:	REVn:
MR-GA-043	00



05	28.09.22	CONCRETE NOTES REVISED	A.D
04	20.09.22	CONCRETE NOTES REVISED	A.D
03	25.05.21	DETAILS REVISED	M.T
02	04/07/19	DETAILS REVISED	M.T
01	27/09/17	MESH DETAIL CORRECTED	M.T
00	16/05/17	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIALS

## Saferoad VRS

## EXAMPLES OF REASONS TO HAVE BREAK IN SHALLOW SLAB FOUNDATION DUE TO CONSTRAINTS DESIGN A

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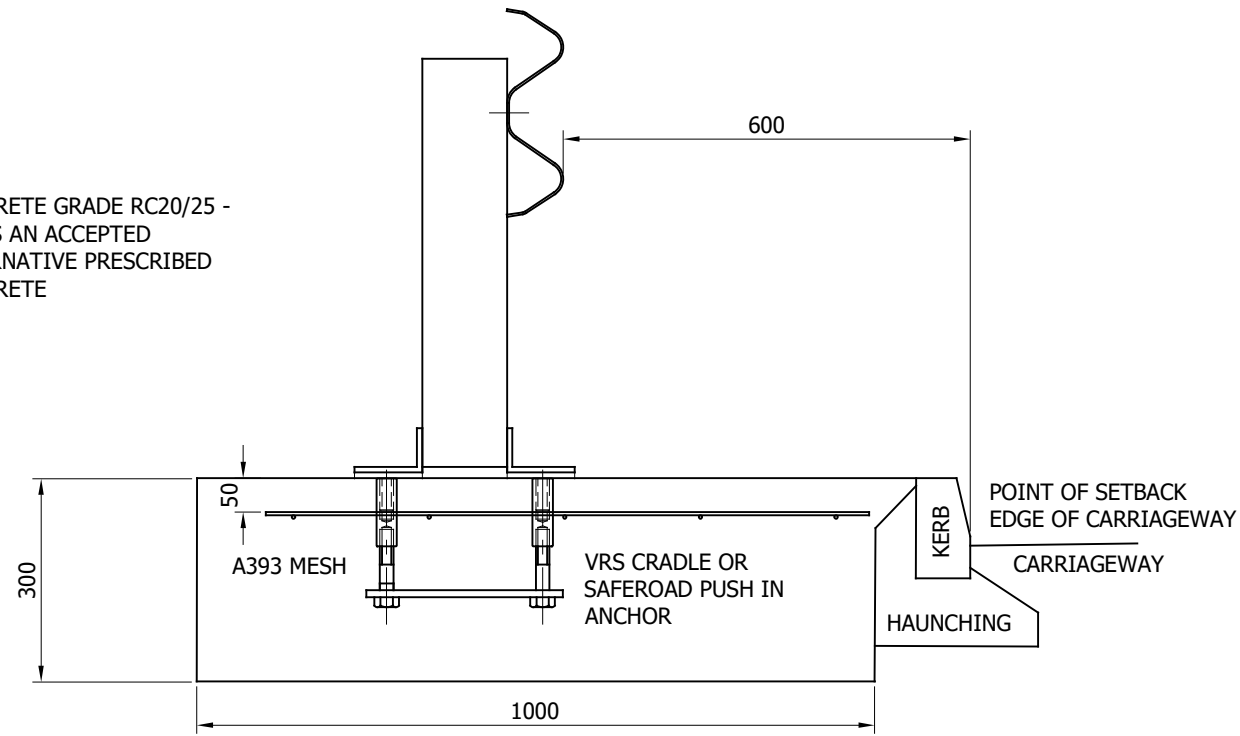
DRAWING NUMBER:

MR-GA-050

	REVn:
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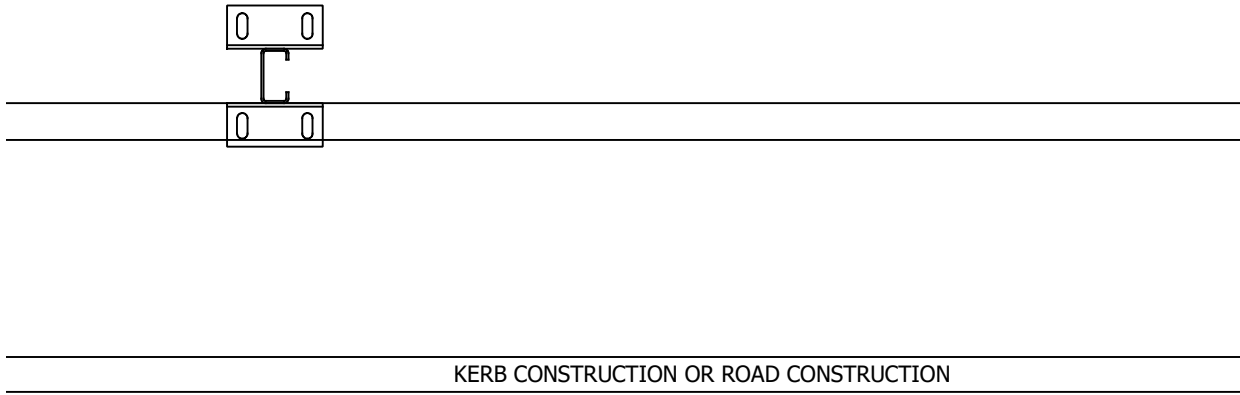
05

CONCRETE GRADE RC20/25 -  
ST5 IS AN ACCEPTED  
ALTERNATIVE PRESCRIBED  
CONCRETE



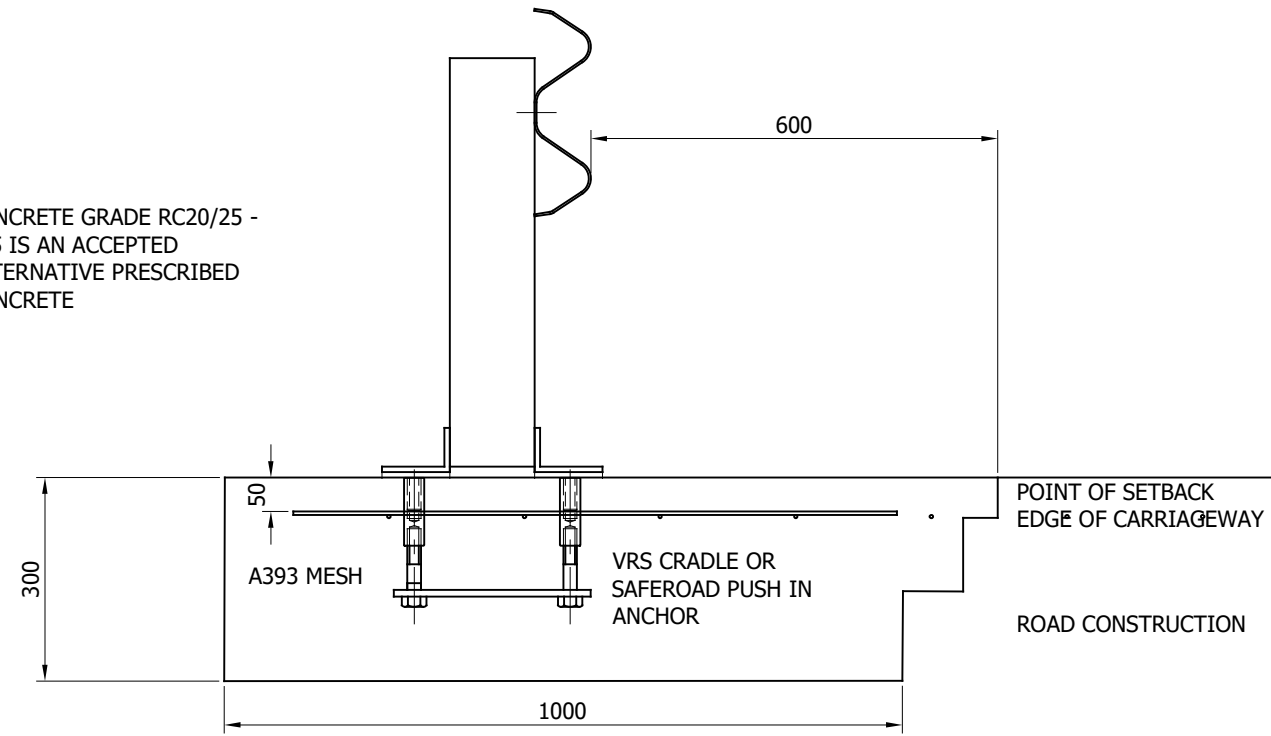
SECTION THROUGH  
KERB CONSTRUCTION

MINIMUM SLAB LENGTHS:  
12.0m LONG FOR H OR Z SECTION  
8.0m LONG FOR C SECTION  
7.0m FOR SIGMA SECTION  
ANTI-CRACK JOINTS AT MAX 12.0m



PLAN VIEW

CONCRETE GRADE RC20/25 -  
ST5 IS AN ACCEPTED  
ALTERNATIVE PRESCRIBED  
CONCRETE



SECTION THROUGH  
ROAD CONSTRUCTION

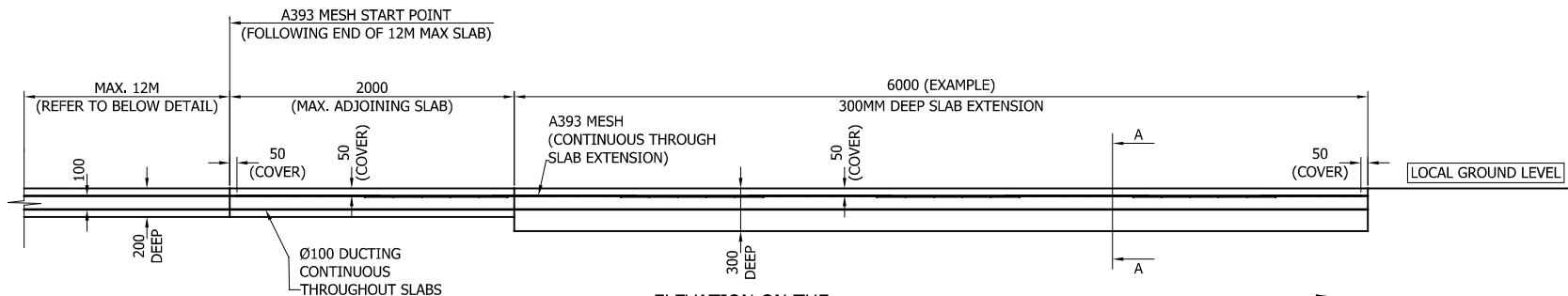
05	28.09.22	CONCRETE NOTES REVISED	A.D
04	20.09.22	CONCRETE NOTES REVISED	A.D
03	27.06.22	DIMENSION ALTERED	A.D
02	25.05.21	DETAILS REVISED	M.T
01	04/07/19	DETAILS REVISED	M.T
00	16/05/17	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

Saferoad VRS

EXAMPLES OF REASONS TO HAVE  
BREAK IN SHALLOW SLAB  
FOUNDATION DUE TO CONSTRAINTS  
DESIGN B

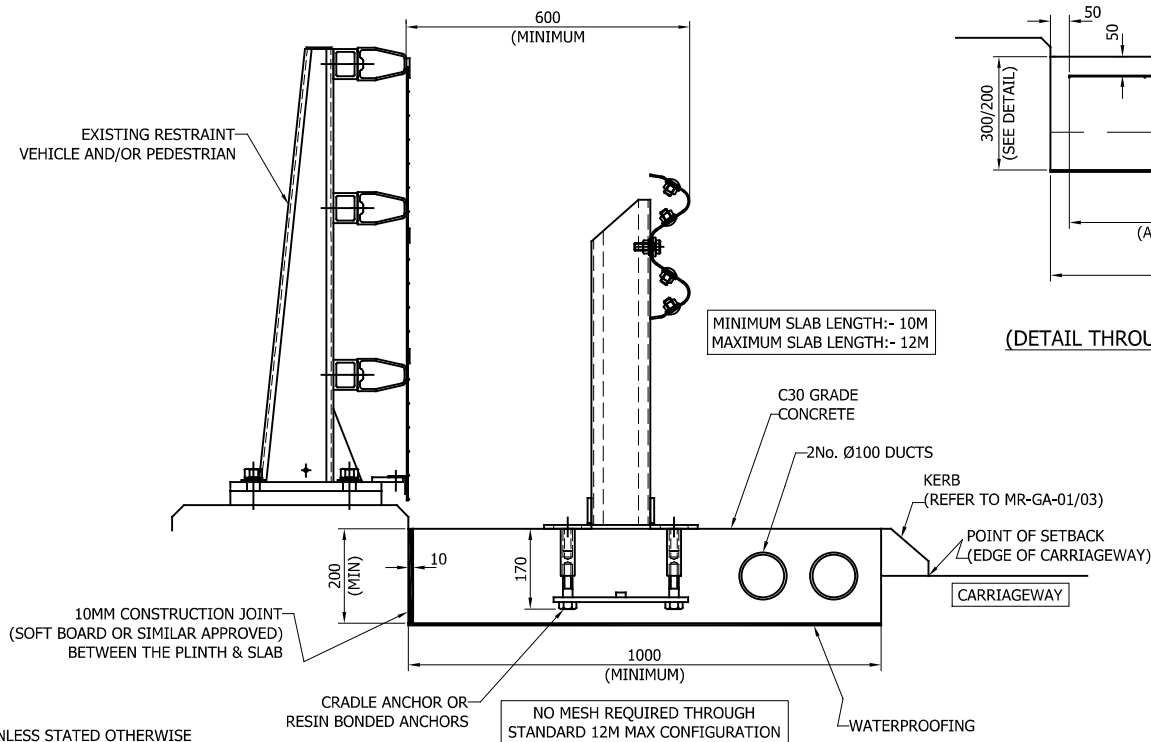
**SAFEROAD®**  
CONCORD HOUSE,  
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DRAWING NUMBER:	REVn:
MR-GA-051	05



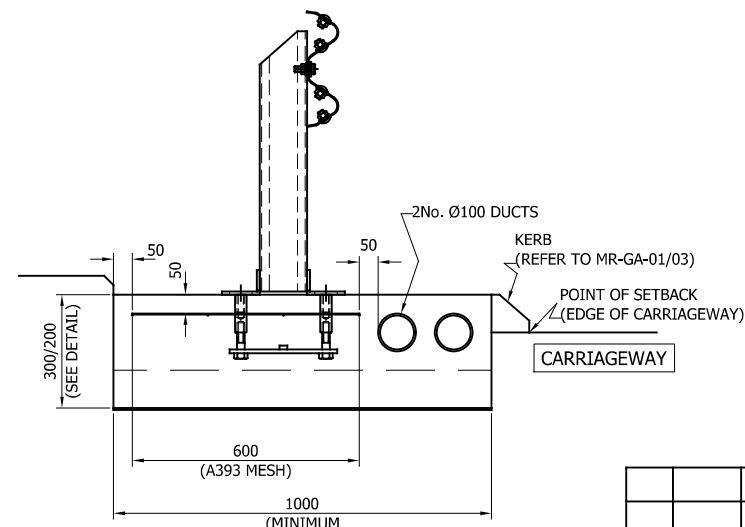
**ELEVATION ON THE  
INCREASING OF LENGTH OF SHALLOW BRIDGE DECK SLABS  
(TO MEET THE MINIMUM REQUIRED LENGTHS)**

SCALE: 1:50



**SECTION THROUGH ON  
SHALLOW BRIDGE DECK SLAB DETAIL**

SCALE: 1:16



**SECTION A-A  
(DETAIL THROUGH OPTIONAL SLAB EXTENSION)**

SCALE: 1:50

**GENERAL NOTES:**

1. ALL DIMENSIONS IN MM UNLESS STATED OTHERWISE
2. POSTS TO BE INSTALLED WITH CLOSED FACE TOWARDS ONCOMING TRAFFIC
3. FOR DETAILS OF SYSTEM HEIGHT MEASUREMENTS, SEE MR-GA-001/003
4. A393 MESH TO BE USED IN LOCATIONS DETAILED ONLY
5. CRADLE/RESIN BONDED ANCHOR DEPTH TO BE 170MM MAX.

00	11/01/23	DRAWING CREATED	H.B
REVn	DATE	DETAILS	INITIAL

**MEGARAIL**

SHALLOW BRIDGE DECK SLAB DETAIL

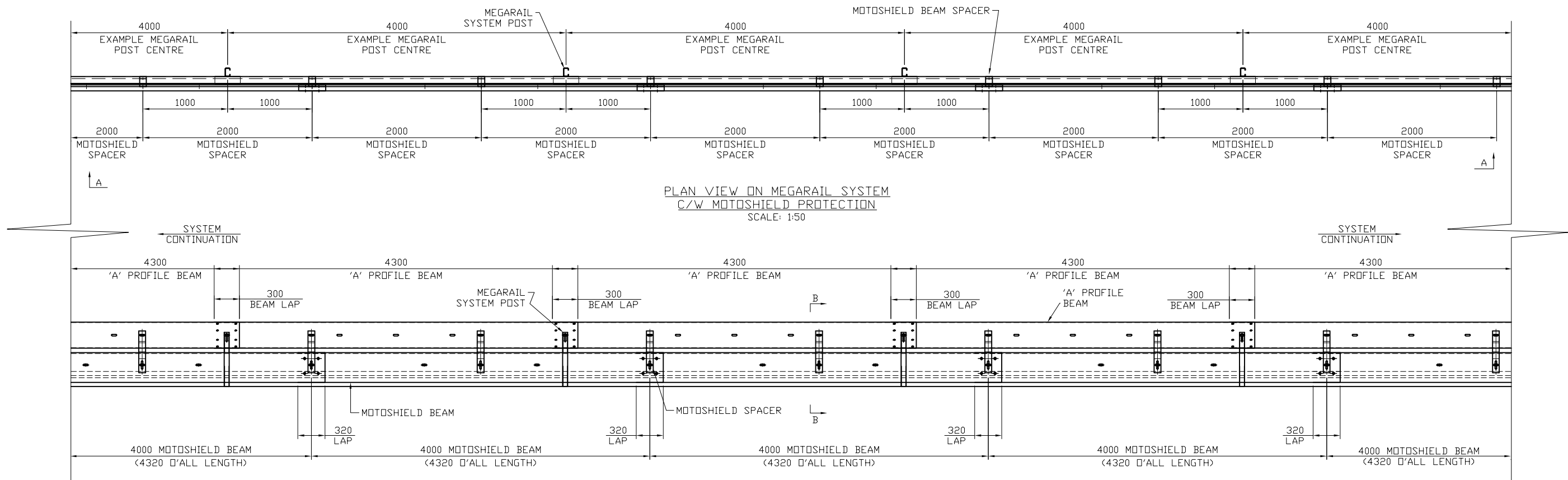
**SAFEROAD®**

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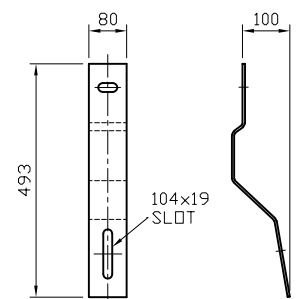
DRAWING NUMBER:	REVn:
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MR-GA-052

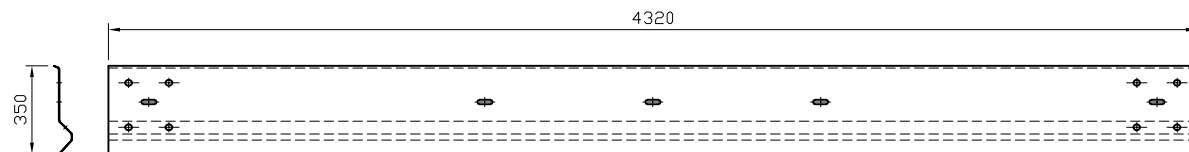
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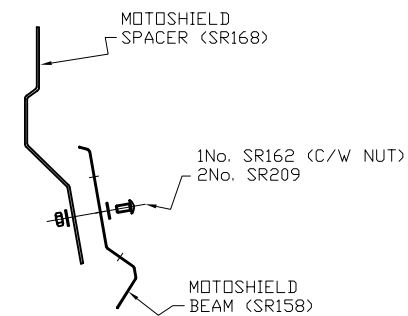
SECTION A-A  
ELEVATION ON TYPICAL MOTOSHIELD LAYOUT  
SCALE: 1:50



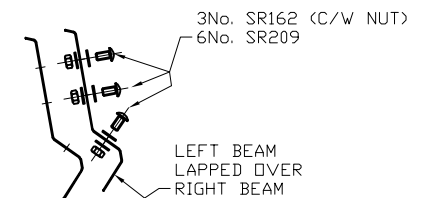
MOTOSHIELD SPACER  
DETAILS  
(SR168)  
SCALE: 1:16



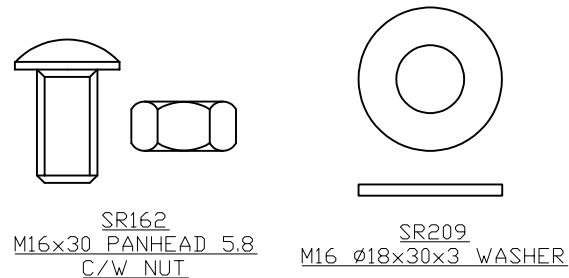
MOTOSHIELD BEAM  
DETAILS  
(SR158)  
SCALE: 1:30



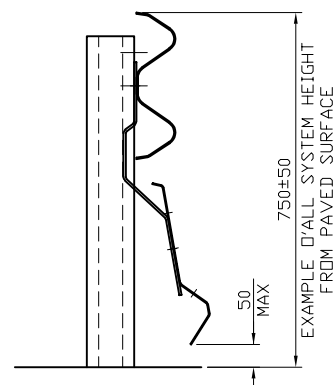
BEAM TO SPACER  
FIXING DETAILS  
SCALE: 1:16



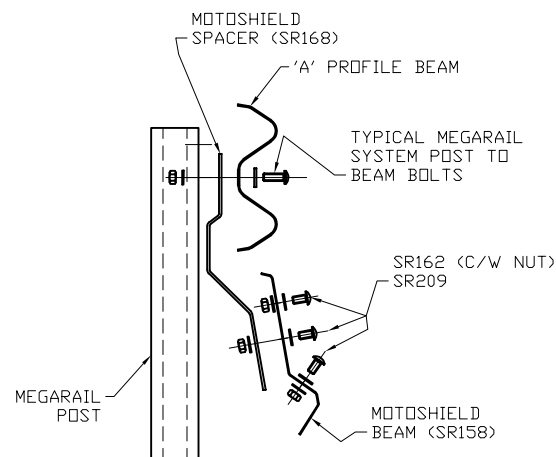
BEAM LAP DETAILS  
SCALE: 1:16



TOLERANCE WITHIN MOTOSHIELD  
SPACER SLOTS USED TO TO  
ACHIEVE REQUIRED PARAMETERS



ELEVATION B-B  
(SECTION THROUGH ON ASSEMBLED MEGARAIL SYSTEM  
C/W MOTOSHIELD PROTECTION)  
SCALE: 1:16



EXPLODED MOTOSHIELD  
ASSEMBLY  
SCALE: 1:16

## GENERAL NOTES;

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL DETAILS REGARDING MEGARAIL, SEE SYSTEM MANUAL DRAWINGS
- FOR MINIMUM LENGTH OF FULL HEIGHT VRS, REFER TO SAFEROAD MEGARAIL MANUAL

- MOTOSHIELD PROTECTION COMPATIBLE WITH ALL 'A' PROFILE BEAM MEGARAIL SYSTEMS

## MOTOSHIELD PROTECTION SYSTEM

GENERAL ARRANGEMENT & ASSEMBLY  
DETAILS



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REVn	DATE	DETAILS	INITIAL
01	28/11/25	NOTE REMOVED	H.B
00	21/03/24	DRAWING CREATED	H.B

DRAWING NUMBER:	REVn:
MR-GA-053	01