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A	GENERAL 1. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS FOR THE PROJECT. 2. LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). 3. CO-ORDINATES ARE TO MAP GRID AUSTRALIA GDA 2020/MGA (ZONE 56). 4. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL LEVELS, METREAGES, CHAINAGES AND CO-ORDINATES ARE EXPRESSED IN METRES. 5. SERVICES ARE SHOWN INDICATIVE ONLY. CONTRACTORS TO CONFIRM LOCATION OF ALL SERVICES PRIOR TO COMMENCING WORK. CONTRACTOR TO ENSURE ADOPTED METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ALL SERVICES. 6. ALL WORK TO BE UNDERTAKEN IN ACCORDANCE WITH THE LATEST VERSION OF TNSW STANDARDS AT THE TIME OF TENDER UNLESS NOTED OTHERWISE. 7. CONCEPT DRAWING ARE NOT FOR CONSTRUCTION PURPOSES. PAVEMENT NOTES 1. PAVEMENT DESIGN AND SUBSURFACE DRAINAGE PLANS SHALL BE PRINTED IN COLOUR TO AVOID MISINTERPRETATION. 2. MATERIAL SUPPLY AND CONSTRUCTION: a. PRIME, PRIMER SEALS AND SPRAY SEALS TO CONFORM TO TNSW SPECIFICATION TS 03276.2 (R106). b. SELECT MATERIAL ZONE MATERIAL TO CONFORM TO TNSW SPECIFICATION TS 02158.1 (R44) c. CONCRETE FOR MEDIAN AND TRAFFIC ISLANDS TO CONFORM TO TNSW SPECIFICATION TS 03264.1 (R53). d. LOW CUTTER SEAL WITH MAXIMUM 2% CUTTER UNDERNEATH ASPHALT BASE COURSE. THICKNESS SEAL / PRIMER SEAL SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN MILLING DEPTH AND SHALL APPROXIMATELY BE EQUIVALENT TO THE AVERAGE LEAST DIMENSION (ALD) OF THE AGGREGATE. UNTIL SUCH TIME ALD TESTS ARE CONDUCTED ON THE AGGREGATES, AN ALD OF 5mm MAY BE ASSUMED FOR A 7mm NOMINAL SIZE AGGREGATE. 3. ALL PAVEMENT FOUNDATION WORKS ARE TO BE PREPARED IN ACCORDANCE WITH TNSW SPECIFICATION TS 02158.1 (R44) AND CONTROLLED SUBGRADE TO COMPRISE IN-SITU LIME STABILISATION (MIN 3% W/W HYDRATED LIME). 4. MILLED ASPHALT AND REMOVED EXISTING PAVEMENT MATERIAL MAY BE REUSED AS UPPER ZONE OF FORMATION MATERIAL SUBJECT TO COMPLIANCE WITH TNSW SPECIFICATION TS02158.1 (R44). 5. COARSE AGGREGATES FOR WEARING COURSE ASPHALT OR SEALING AGGREGATE, MUST NOT BE PRODUCED FROM LIMESTONE OR DOLOMITE ROCK SOURCES. 6. VERGE MATERIAL THICKNESS TO MATCH PAVEMENT BASE COURSE PROFILES. REFER TO TNSW SPECIFICATION TS02158.1 (R44) FOR VERGE MATERIAL QUALITY REQUIREMENTS. 7. CONSTRUCTION PLANT, GRADERS MUST USE AUTOMATED LEVEL CONTROL SYSTEMS ON ALL PAVEMENT LAYERS. 8. NEW PAVEMENT TO BE MINIMUM WIDTH OF 1.50m. 9. FOR FLYOVER BRIDGE DETAILS REFER TO DRAWING NO RRM7Y2T-STANA-6009BR01-BR-DRG-001001 AND FOR NORTHBOUND BRIDGE OVER BELLS CREEK DETAILS REFER TO DRAWING NO RRM7Y2T-STANA-0537BR02-BR-DRG-002011. 10. APPROACHES TO SIGNALISED INTERSECTIONS IS TO COMPRISE OF HIGH FRICTION ASPHALT (HFA) FOR WEARING COURSE, FOR APPROACH DISTANCE OF 50m THROUGH THE INTERSECTION AND TO A POINT 5m BEYOND THE DEPARTURE SIDE MEDIAN NOSE ADDITIONALLY, BUS LANE MARKING AREAS TO COMPRISE OF HFA. ADOPTED HFA TO CONTAIN A MINIMUM PAFV >58 FOR 100% OF THE COURSE AGGREGATE. 11. METHODOLOGY OF CONSTRUCTION OF RBM800 LAYER AND ASPHALT LAYERS (applicable only for FP1-Alt profile): a. EXCAVATE TO THE DEPTH OF 950mm. INSPECT THE EXPOSED SUBGRADE AND REMOVE ANY UNSUITABLE MATERIAL. b. PLACE 300mm OF HEAVILY BOUND LAYER (RBM800) AND COMPACT WITH VIBRATION, THIS LAYER WILL PERFORM AS WORKING PLATFORM. c. THE TOP 250mm LAYER FORMS A PART OF PAVEMENT LAYER AS SUCH IT IS CRITICAL TO ACHIEVE ADEQUATE COMPACTION SO THE SUBSEQUENT ASPHALT LAYERS CAN BE ADEQUATELY COMPACTED. d. FOR TOP 250mm OF HBM LAYER FIELD DENSITY TEST (NO LABORATORY TEST) TO BE CARRIED OUT TO ACHIEVE THE FIELD WET DENSITY READING OF AT LEAST 2.20 t/m³ WHICH CORRESPONDS TO 100% RELATIVE COMPACTION FOR HBM. THE WET DENSITY READING OF 2.20 t/m³ IS AN AVERAGE DENSITY READING DERIVED FROM OTHER TNSW PROJECTS WHICH CORRESPONDS TO 100% RELATIVE COMPACTION. BOTTOM 300mm OF THE RBM800 IS LIKELY ACHIEVED LESS THAN 100% COMPACTION AND IS CONSIDERED AS A WORKING PLATFORM. PAVEMENT JOINTING 1. THE CONTRACTOR IS TO ENSURE A SMOOTH TRANSITION IS ACHIEVED BETWEEN EXISTING AND PROPOSED PAVEMENTS. PAVEMENT EDGE DETAILS 1. PAVEMENT EDGE DETAILS ARE TO BE READ IN CONJUNCTION WITH THE PAVEMENT PLANS, ALIGNMENT CROSS SECTIONS AND TYPICAL EDGE DETAILS INCLUDED IN PROJECT WIDE PAVEMENT TYPICAL DETAILS DESIGN. 2. PAVEMENT EDGE DETAILS SHOWN IN THE SCHEDULE HAVE BEEN DETERMINED BASED ON CROSS SECTIONAL LEVEL OUTPUTS AT 25m INTERVALS. THE CONTRACTOR SHALL CONFIRM ON SITE THE EXACT TRANSITION LOCATIONS BETWEEN DIFFERENT EDGE DETAIL TREATMENTS. SPECIFICATIONS 1. ALL PAVEMENT WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH RELEVANT QA SPECIFICATIONS AVAILABLE ON TNSW WEBSITE, UNLESS STATED OTHERWISE. SUBSURFACE DRAINAGE NOTES 1. THE CONTRACTOR SHALL ENSURE CORRECT INTEGRATION OF SUBSURFACE DRAINS AND PAVEMENT EDGE DETAILS. 2. DRAINAGE PIPE TO BE MINIMUM 100mm CORRUGATED PERFORATED PLASTIC DRAINAGE PIPE (TNSW SPECIFICATION TS 03552.1 (3552)) or MEGALFLOW. 3. SUBSURFACE DRAINS TO COMPRISE OF NO FINES CONCRETE (TNSW SPECIFICATION TS 03325.1 - 3222) UNDER TRAFFICABLE AREAS. TRENCH WIDTHS ARE PRESENTED ON EDGE AND INTERFACE DETAILS. 4. UNPERFORATED PLASTIC PIPE SHALL BE USED FOR SECTIONS OF SUBSURFACE DRAINS THAT ARE USED AS CARRIER PIPE (SUCH AS AT VERGE CROSSINGS TO OUTLETS) IN ACCORDANCE WITH TNSW STANDARD PAVEMENT SUBSURFACE DRAINAGE DETAILS - DRAWING SERIES MD.R33.A04 - SHEET 1 AND SHEET 2. 5. CARRIER PIPES TO BE ORIENTATED 40 - 60 DEGREES FROM SUBSOIL OUTLETS, IN DIRECTION OF FLOW. 6. LOCAL ADJUSTMENTS ARE REQUIRED TO AVOID CLASHES WITH UTILITY SERVICES. DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR OFFICIAL: SENSITIVE NSW GOVERNMENT NOT FOR CONSTRUCTION												A																																																
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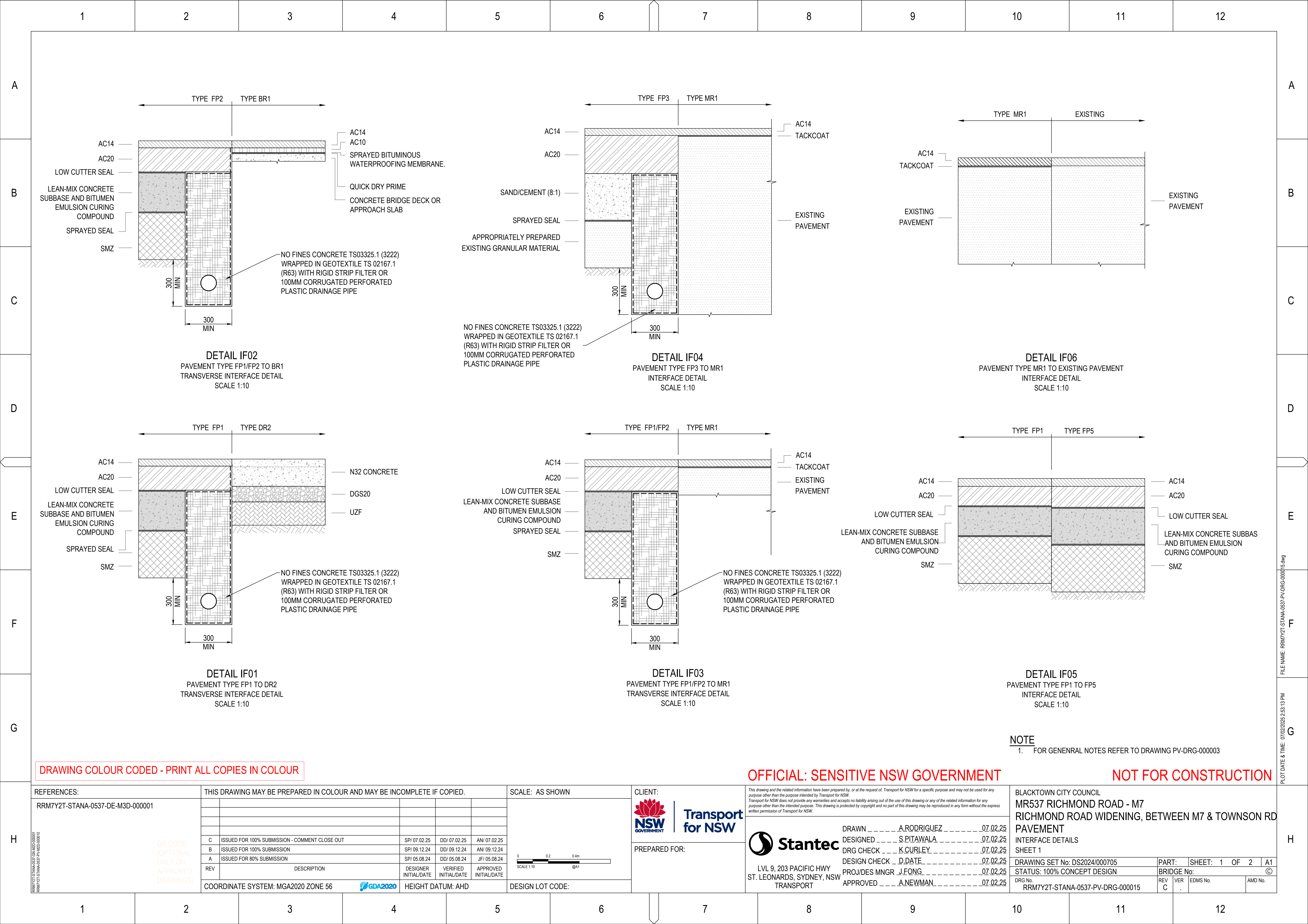
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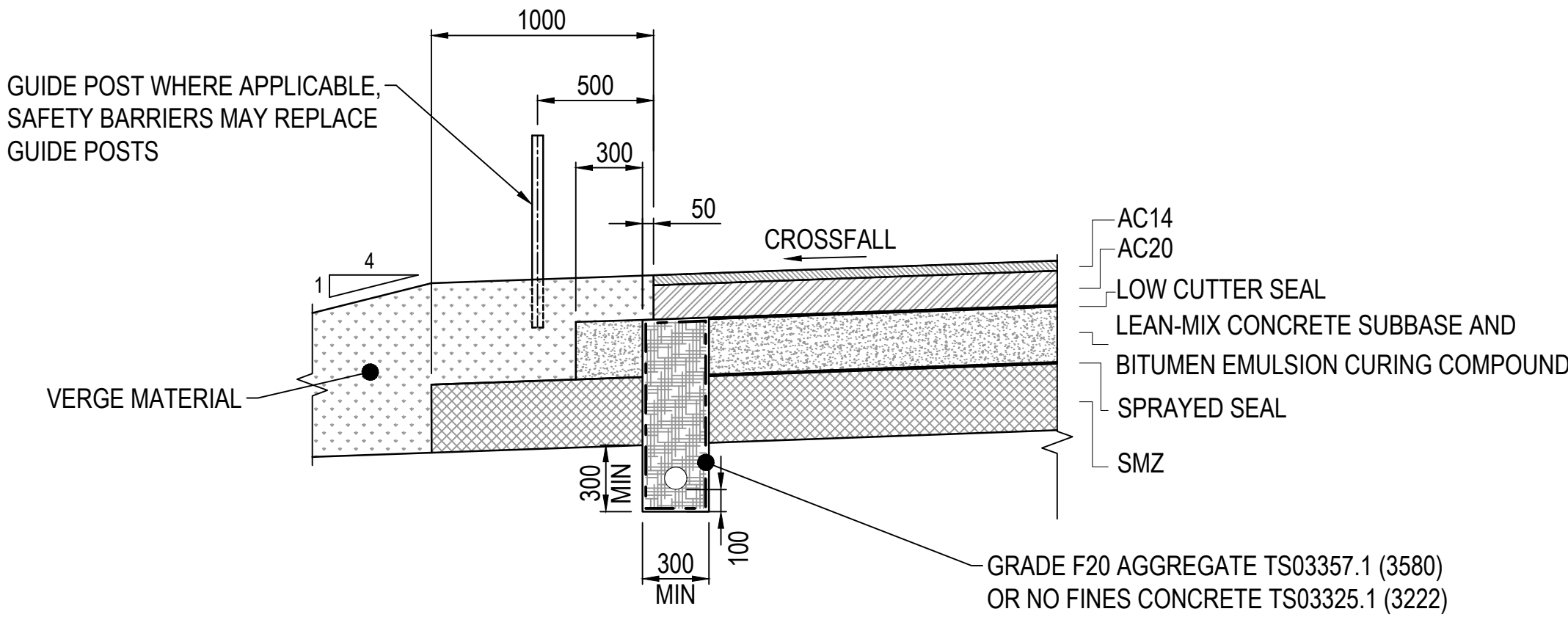
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H	DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR REFERENCES: RRM7Y2T-STANA-0537-DE-M3D-000001 THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED. <table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>C</td><td>ISSUED FOR 100% SUBMISSION - COMMENT CLOSE OUT</td><td>SPI 07.02.25</td><td>DDI 07.02.25</td><td>ANI 07.02.25</td><td></td></tr><tr><td>B</td><td>ISSUED FOR 100% SUBMISSION</td><td>SPI 09.12.24</td><td>DDI 09.12.24</td><td>ANI 09.12.24</td><td></td></tr><tr><td>A</td><td>ISSUED FOR 80% SUBMISSION</td><td>SPI 05.08.24</td><td>DDI 05.08.24</td><td>JFI 05.08.24</td><td></td></tr><tr><td>REV</td><td>DESCRIPTION</td><td>DESIGNER INITIAL/DATE</td><td>VERIFIED INITIAL/DATE</td><td>APPROVED INITIAL/DATE</td><td></td></tr><tr><td colspan="2">COORDINATE SYSTEM: MGA2020 ZONE 56</td><td colspan="2">HEIGHT DATUM: AHD</td><td colspan="2">DESIGN LOT CODE:</td></tr></table> SCALE: AS SHOWN 00.10.2m SCALE 1:5 @A1 CLIENT: NSW GOVERNMENT Transport for NSW PREPARED FOR: This drawing and the related information have been prepared by, or at the request of, Transport for NSW for a specific purpose and may not be used for any purpose other than the purpose intended by Transport for NSW. Transport for NSW does not provide any warranties and accepts no liability arising out of the use of this drawing or any of the related information for any purpose other than the intended purpose. This drawing is protected by copyright and no part of this drawing may be reproduced in any form without the express written permission of Transport for NSW. Stantec LVL 9, 203 PACIFIC HWY ST. LEONARDS, SYDNEY, NSW TRANSPORT DRAWN _____ A.RODRIGUEZ _____ 07.02.25 DESIGNED _____ S.PITAWALA _____ 07.02.25 DRG CHECK _____ K.CURLEY _____ 07.02.25 DESIGN CHECK _____ D.DATE _____ 07.02.25 PROJ/DES MNGR J.FONG _____ 07.02.25 APPROVED _____ A.NEWMAN _____ 07.02.25 BLACKTOWN CITY COUNCIL MR537 RICHMOND ROAD - M7 RICHMOND ROAD WIDENING, BETWEEN M7 & TOWNSON RD PAVEMENT PROFILES SHEET 3 DRAWING SET No: DS2024/000705 PART: SHEET: 3 OF 3 A1 STATUS: 100% CONCEPT DESIGN BRIDGE No: © DRG No: RRM7Y2T-STANA-0537-PV-DRG-000013 REV C VER . EDMS No. AMD No.																														C	ISSUED FOR 100% SUBMISSION - COMMENT CLOSE OUT	SPI 07.02.25	DDI 07.02.25	ANI 07.02.25		B	ISSUED FOR 100% SUBMISSION	SPI 09.12.24	DDI 09.12.24	ANI 09.12.24		A	ISSUED FOR 80% SUBMISSION	SPI 05.08.24	DDI 05.08.24	JFI 05.08.24		REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE		COORDINATE SYSTEM: MGA2020 ZONE 56		HEIGHT DATUM: AHD		DESIGN LOT CODE:		H
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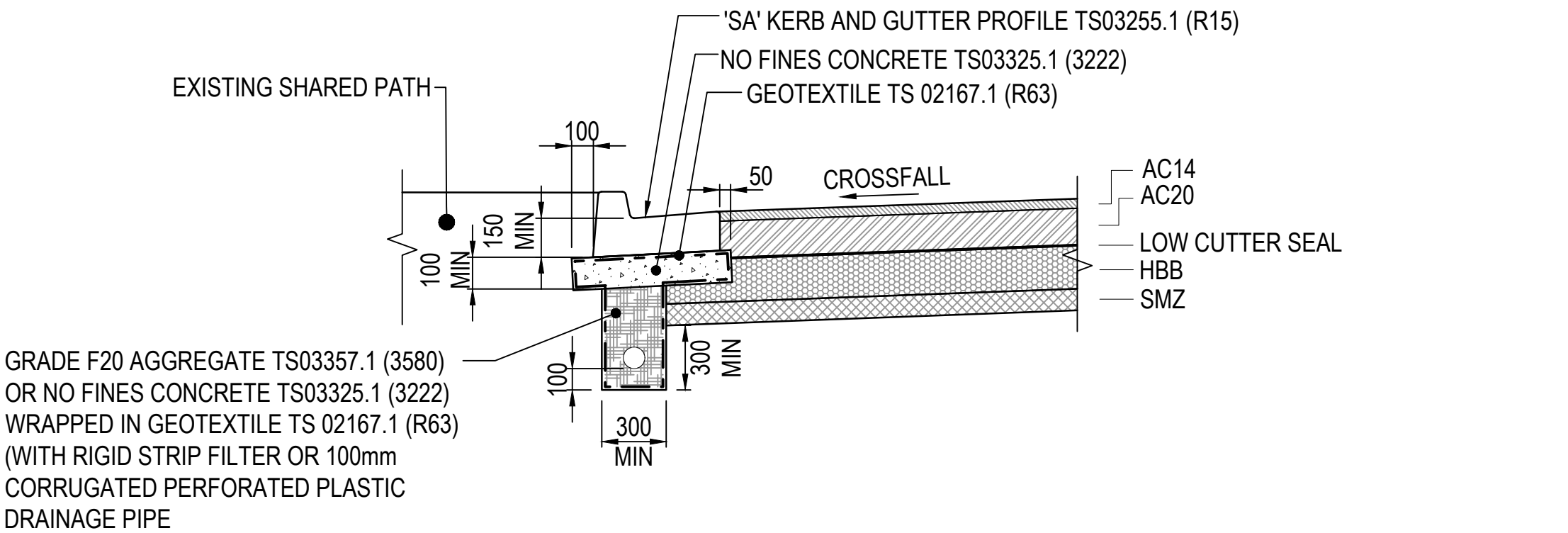
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DETAIL
SCALE 1:25

ED02

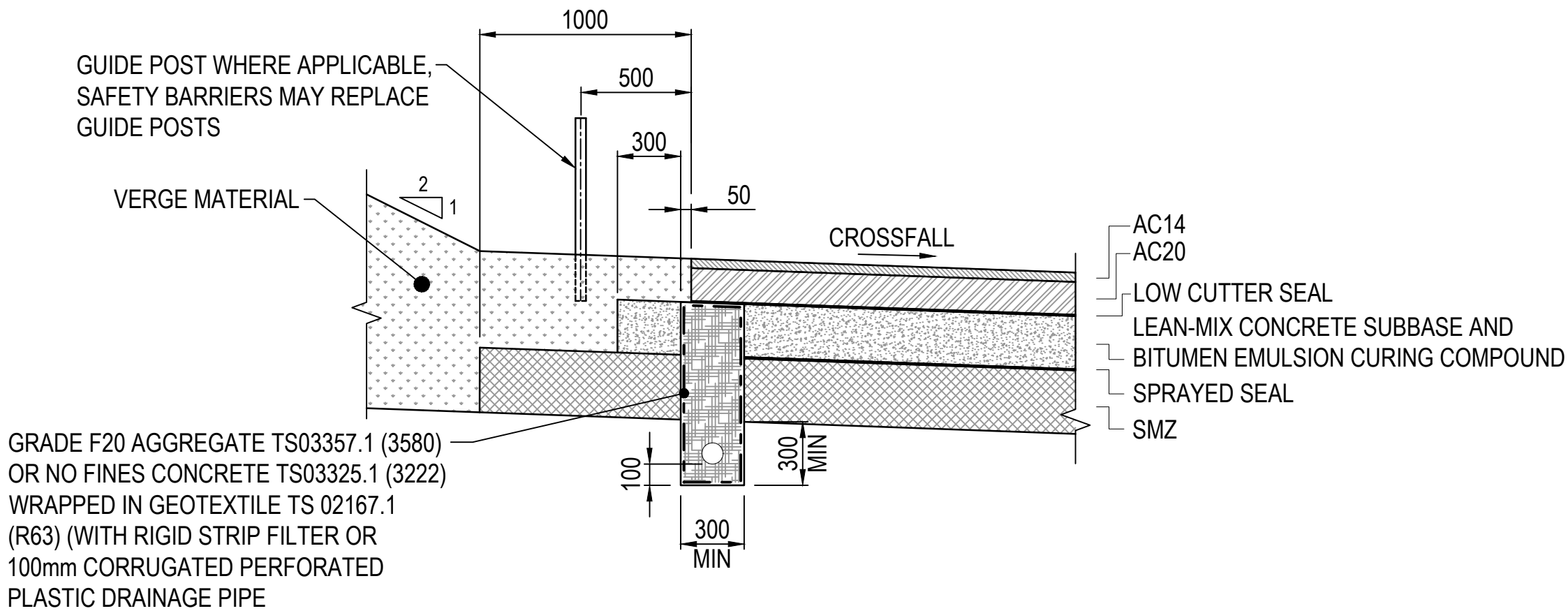
TRENCH DRAIN UNDER LOW PAVEMENT EDGE
NO DRAINAGE LAYER



DETAIL
SCALE 1:25

ED04

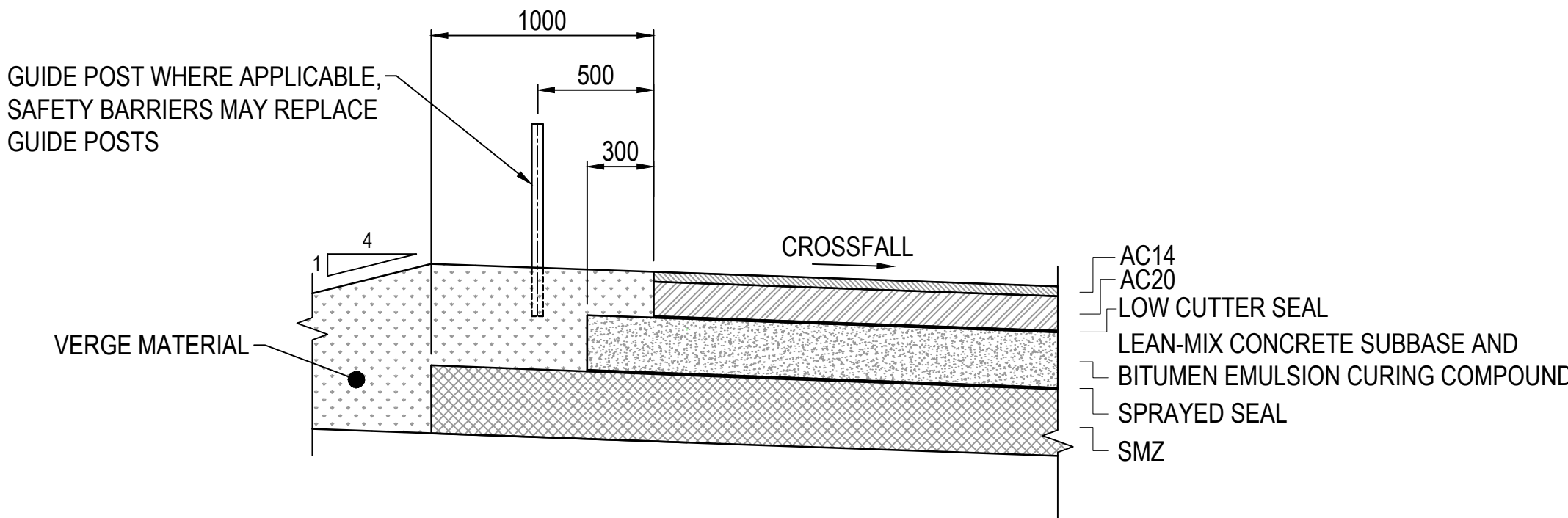
TRENCH DRAIN UNDER LOW SA KERB
NO DRAINAGE LAYER



DETAIL
SCALE 1:25

ED01

HIGH PAVEMENT EDGE, NO DRAINAGE LAYER
WITH TRENCH DRAIN



DETAIL
SCALE 1:25

ED03

HIGH PAVEMENT EDGE NO DRAINAGE LAYER
NO TRENCH DRAIN

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REFERENCES:
RRM7Y2T-STANA-0537-DE-M3D-000001

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SCALE: AS SHOWN

CLIENT:



PREPARED FOR:

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ST. LEONARDS, SYDNEY, NSW
TRANSPORT

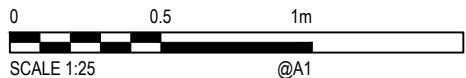
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DESIGNED _____ S.PITAWALA _____ 07.02.25
DRG CHECK _____ K.CURLEY _____ 07.02.25
DESIGN CHECK _____ D.DATE _____ 07.02.25
PROJ/DES MNGR _____ J.FONG _____ 07.02.25
APPROVED _____ A.NEWMAN _____ 07.02.25

BLACKTOWN CITY COUNCIL
MR537 RICHMOND ROAD - M7
RICHMOND ROAD WIDENING, BETWEEN M7 & TOWNSON RD
PAVEMENT
EDGE DETAILS
SHEET 1

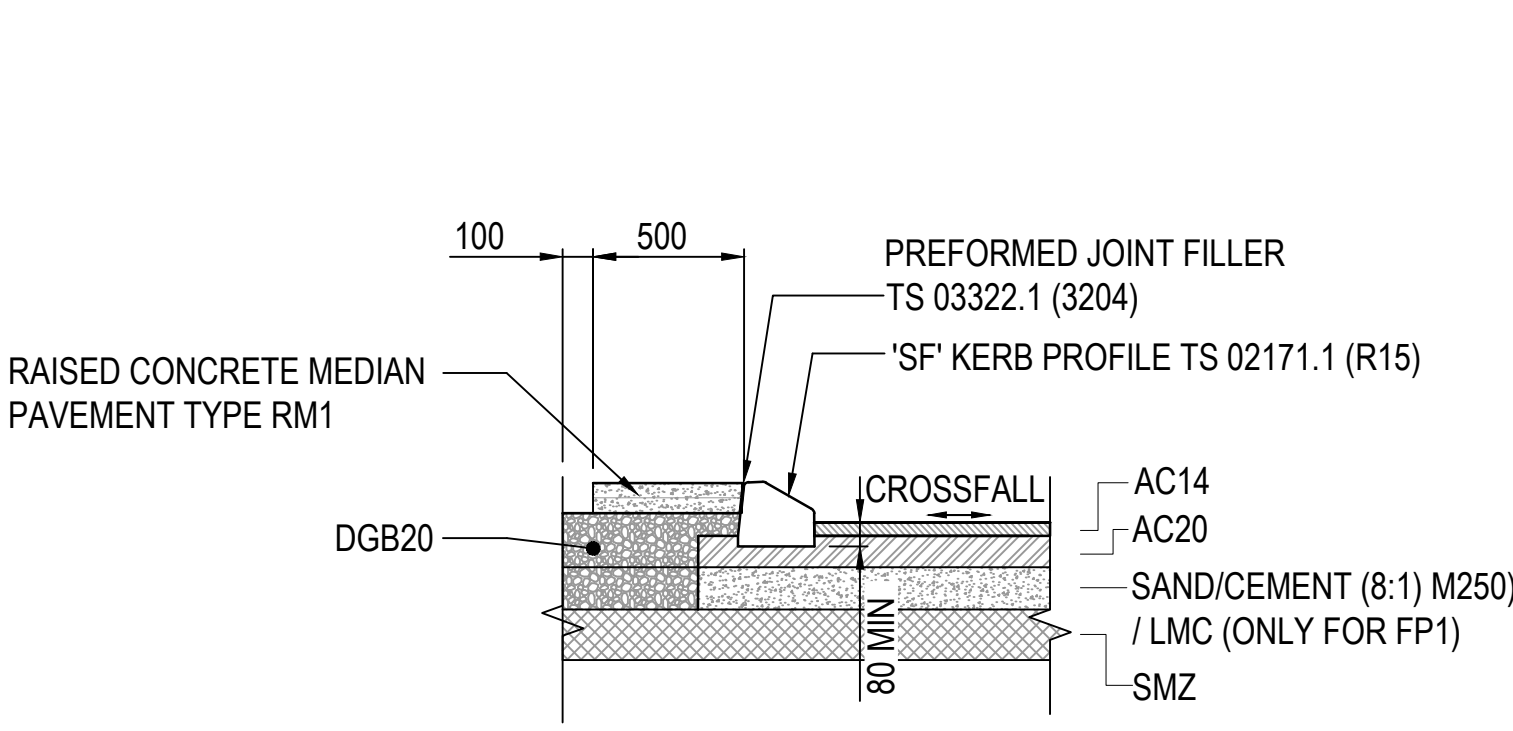
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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
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B	ISSUED FOR 100% SUBMISSION	SP/ 09.12.24	DD/ 09.12.24	AN/ 09.12.24
A	ISSUED FOR 80% SUBMISSION	SP/ 05.08.24	DD/ 05.08.24	JF/ 05.08.24
COORDINATE SYSTEM: MGA2020 ZONE 56	HEIGHT DATUM: AHD	DESIGN LOT CODE:		

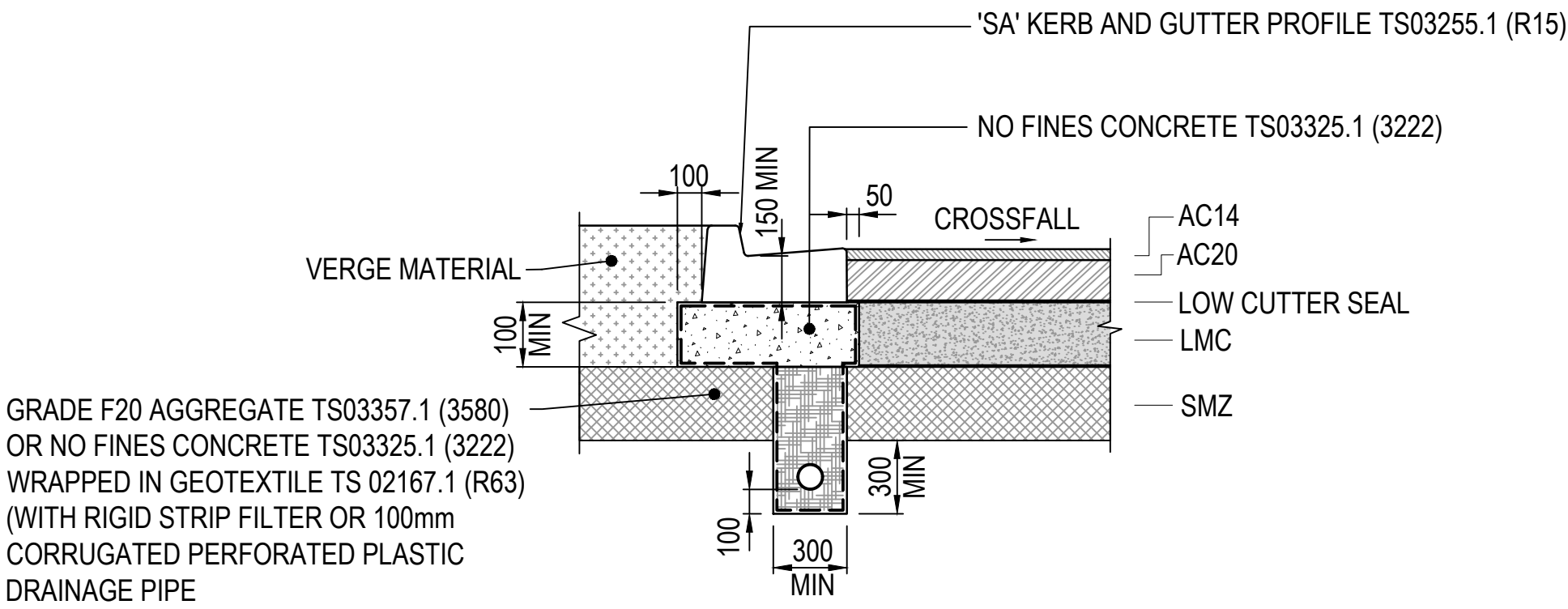


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C													C
D													D
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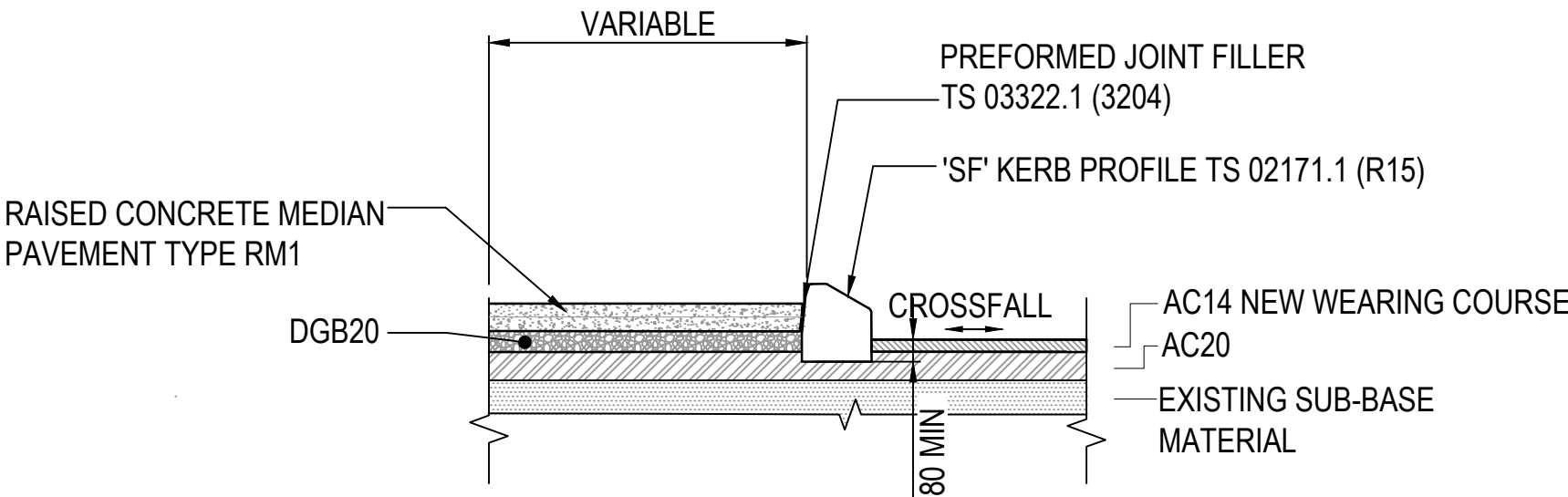
DETAIL ED06
SCALE 1:25

NO TRENCH DRAIN, NARROW TRAFFIC ISLAND
WITH SF KERB - NO DRAINAGE LAYER
PAVEMENT TYPE FP1/FP3



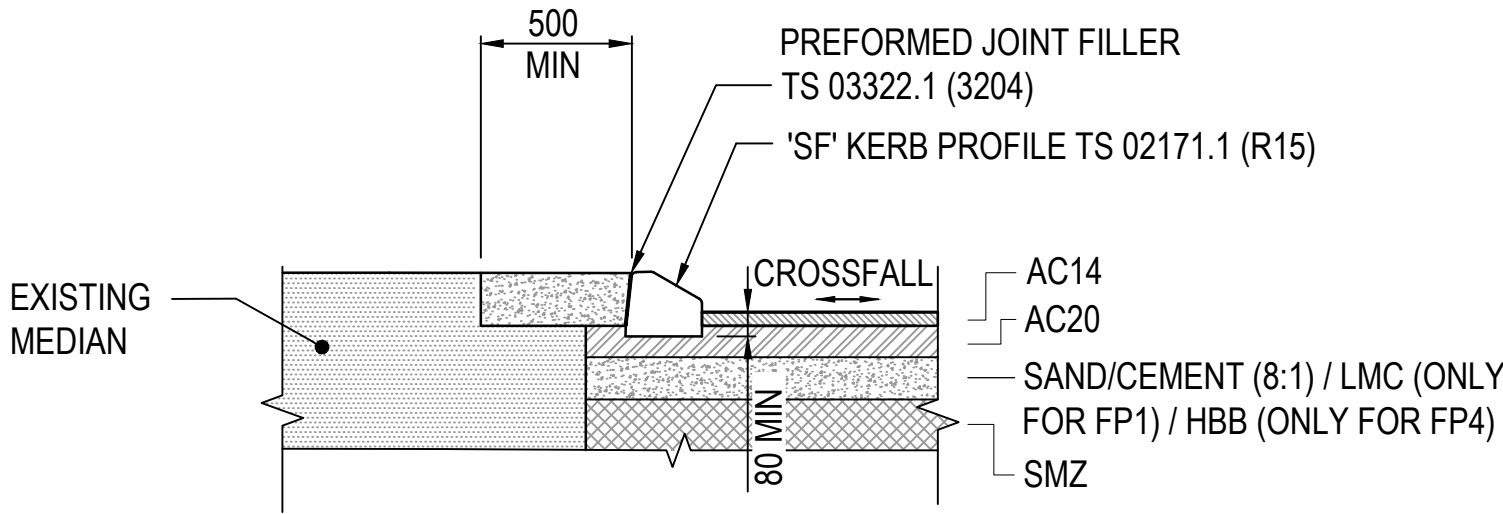
DETAIL ED08
SCALE 1:25

TRENCH DRAIN UNDER HIGH PAVEMENT EDGE
WITH TYPE SF KERB - NO DRAINAGE LAYER



DETAIL ED05
SCALE 1:25

NO TRENCH DRAIN, NARROW TRAFFIC ISLAND
WITH SF KERB - NO DRAINAGE LAYER
EXISTING PAVEMENT



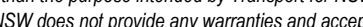
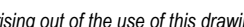
DETAIL ED07
SCALE 1:25

NO TRENCH DRAIN, NARROW TRAFFIC ISLAND
WITH SF KERB - NO DRAINAGE LAYER
PAVEMENT TYPE FP1/ FP3

NOTE
1. FOR GENENRAL NOTES REFER TO DRAWING PV-DRG-000003

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RRM7Y2T-STANA-0537-DE-M3D-000001							 		DRAWN _____ A.RODRIGUEZ _____ 07.02.25									
						DESIGNED _____ S.PITAWALA _____ 07.02.25												
						DRG CHECK ____ K.CURLEY _____ 07.02.25												
						DESIGN CHECK _ D.DATE _____ 07.02.25												
						PROJ/DES MNGR J.FONG _____ 07.02.25												
							PREPARED FOR:		APPROVED ____ A.NEWMAN _____ 07.02.25									
																		
			</															



A



C

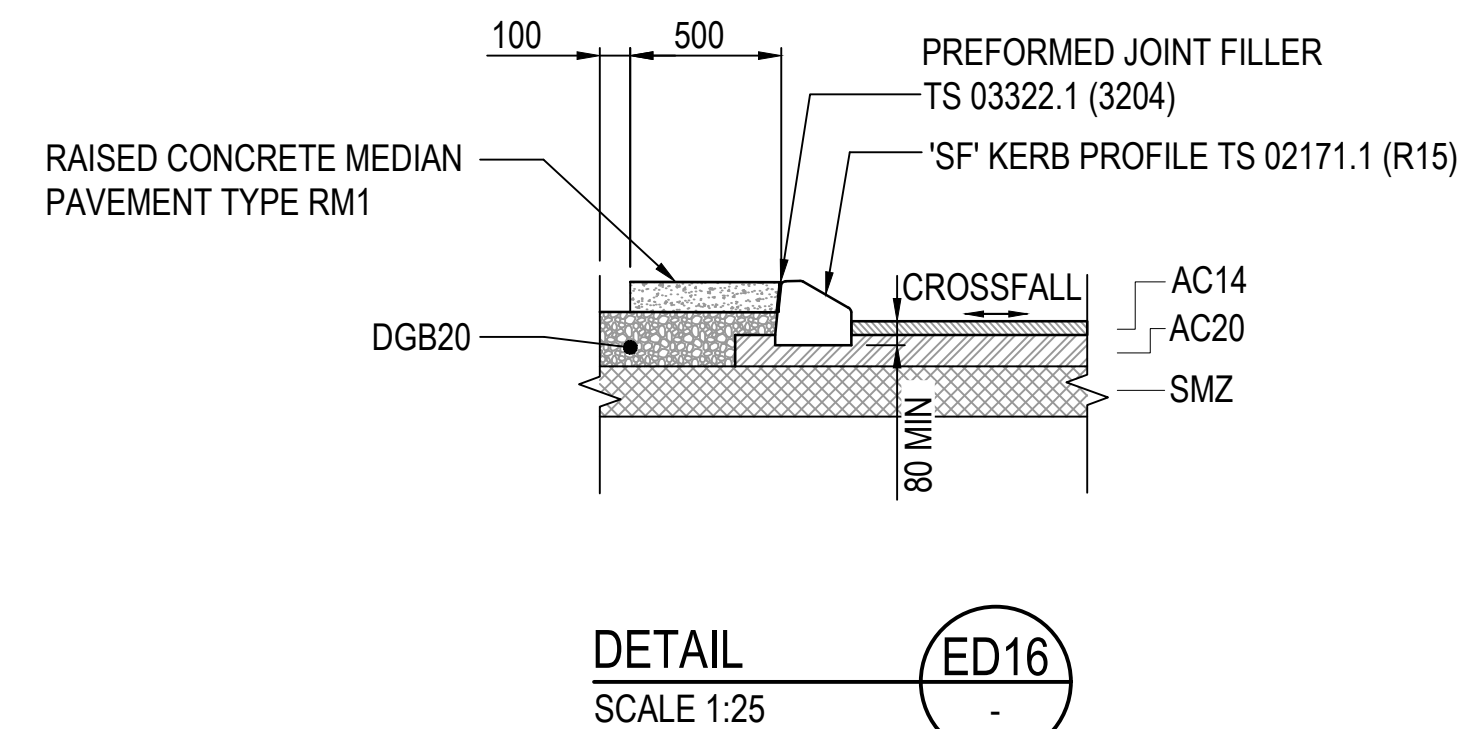


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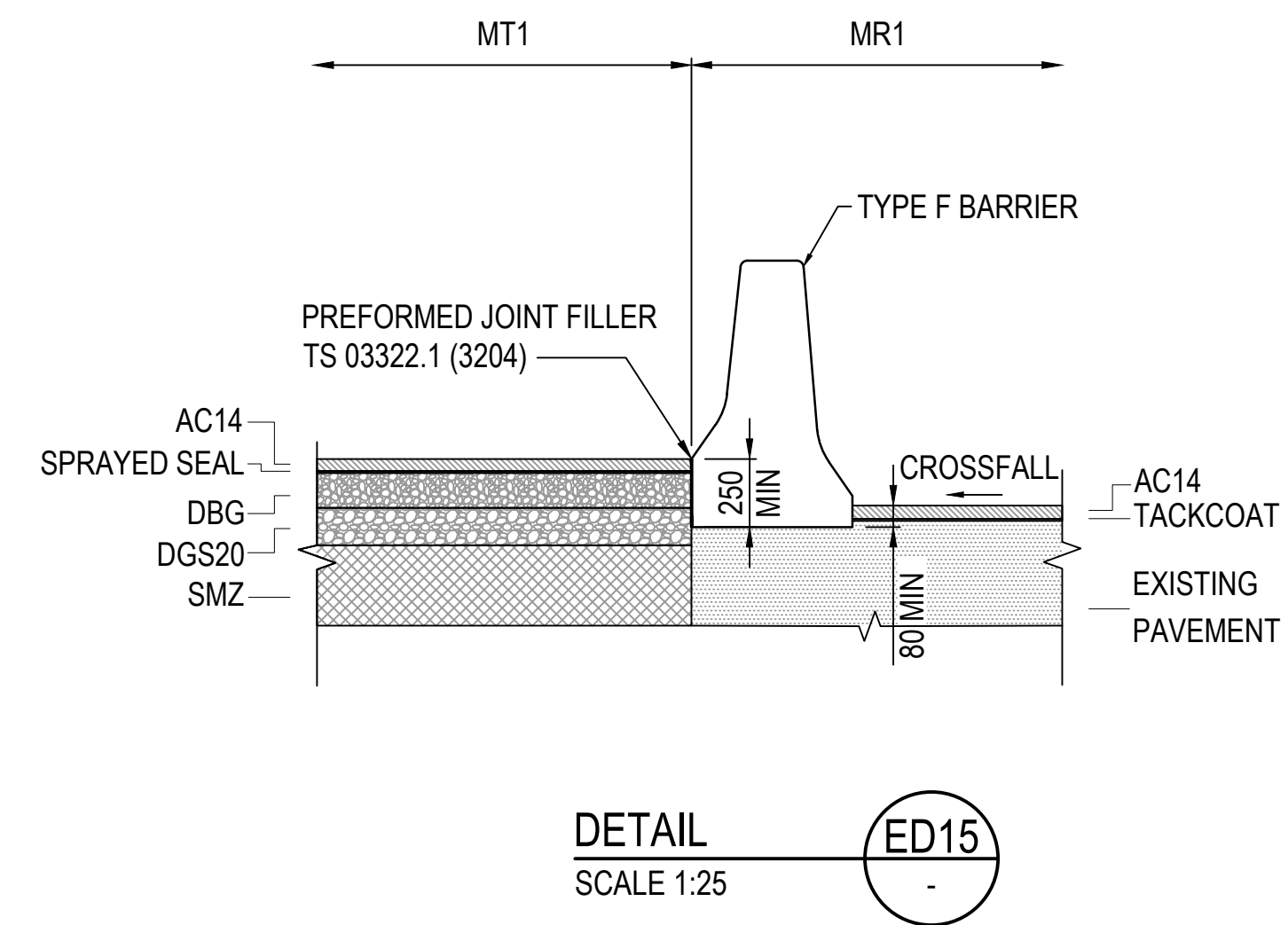
1. FOR GENENRAL NOTES REFER TO DRAWING PV-DRG-000003

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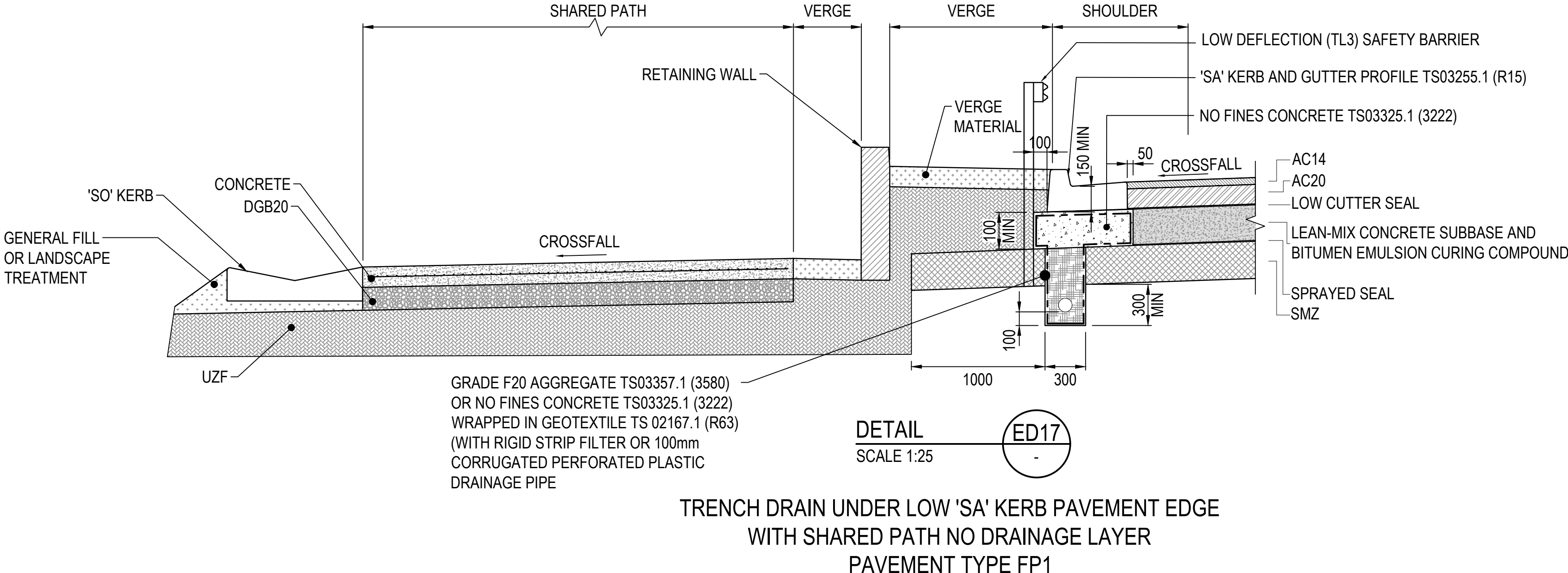
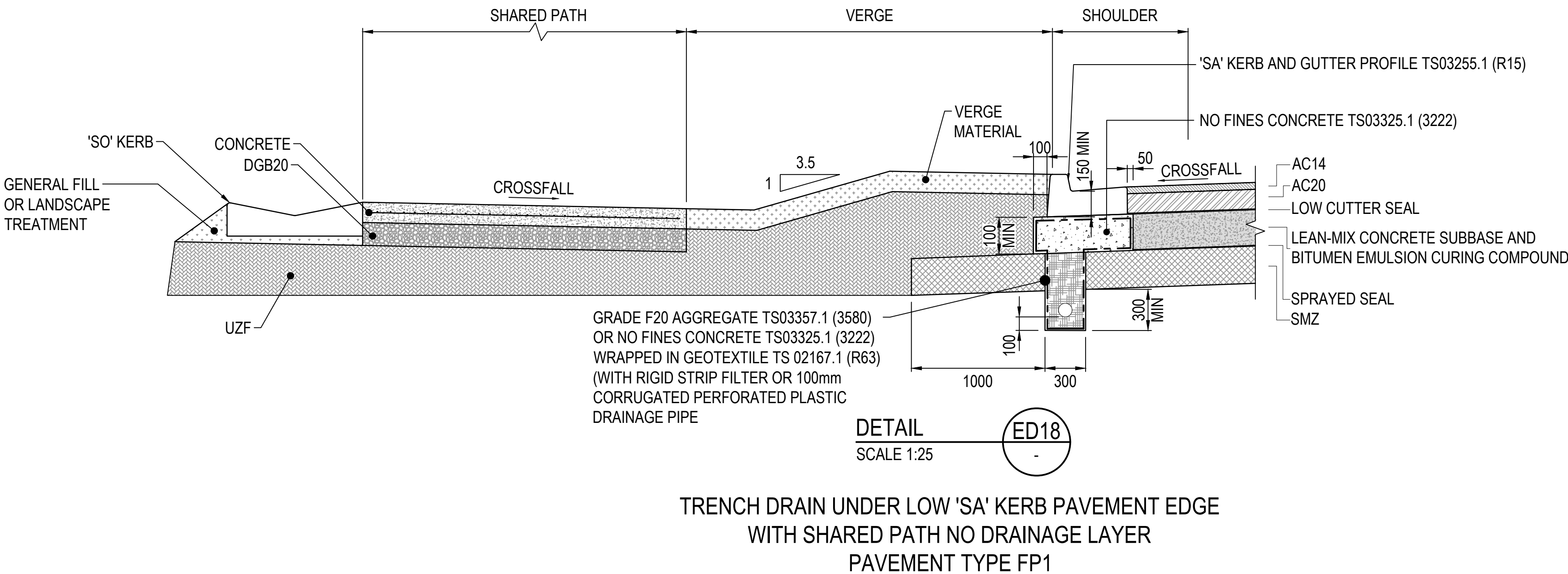
NO TRENCH DRAIN, NARROW TRAFFIC ISLAND
WITH SF KERB - NO DRAINAGE LAYER
PAVEMENT TYPE FP1/FP3



HIGH PAVEMENT EDGE NO TRENCH DRAIN WITH TYPE F BARRIER
ADJACENT TO RETAINING WALL
PAVEMENT TYPE MT1 TO MR1

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PLOT DATE & TIME: 07/02/2025 2:53:38 PM



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RRM7Y2T-STANA-0537-DE-M3D-000001									DRAWN _____ A.RODRIGUEZ _____ 07.02.25 DESIGNED _____ S.PITAWALA _____ 07.02.25 DRG CHECK _____ K.CURLEY _____ 07.02.25 DESIGN CHECK _____ D.DATE _____ 07.02.25 PROJ/DES MNGR _____ J.FONG _____ 07.02.25 APPROVED _____ A.NEWMAN _____ 07.02.25				DRAWING SET No: DS2024/000705		PART:	SHEET: 5 OF 5		A1
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RRM7Y2T-STANA-0537-PV-DRG-000022

QR CODE:
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ONLY ON
APPROVED
DRAWINGS)

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