







	1	2	3	4	5	6	7	8	9		10	11	12	
Α	GENERAL  1. DRAWINGS TO BE RI 2. LEVELS ARE TO AUS 3. CO-ORDINATES ARE 4. ALL DIMENSIONS AR CO-ORDINATES ARE 5. SERVICES ARE SHO SERVICES PRIOR TO	<ol> <li>EXISTING STORMWATER INDICATIVE ONLY. ALL LON SITE BY THE CONTR</li> <li>LAYOUTS OF EXISTING COMBINATION OF, UTILITY (WHERE SURVEY IS NOT 3. IN LOCATIONS WHERE NOT SURVEY IS NOT SURVEY IS NOT SURVEY IS NOT SURVEY IS NOT SURVEY IN LOCATIONS WHERE NOT SURVEY IS NOT SURVEY IN LOCATIONS WHERE NOT SURVEY IS NOT SURVEY SURVEY</li></ol>	<ol> <li>EXISTING DRAINAGE</li> <li>EXISTING STORMWATER DRAINAGE PIPE AND PIT LAYOUT SHOWN IN THE DRAWINGS IS INDICATIVE ONLY. ALL LOCATIONS, ORIENTATION AND LEVELS OF EXISTING MUST BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.</li> <li>LAYOUTS OF EXISTING STORMWATER DRAINAGE HAVE BEEN PREPARED BASED ON A COMBINATION OF, UTILITIES SURVEY BY SURESEARCH (2020), OR OLD DESIGN DRAWINGS DATA (WHERE SURVEY IS NOT AVAILABLE).</li> <li>IN LOCATIONS WHERE NEW PAVEMENT OR ROAD WIDENING WORKS ARE PROPOSED, ANY</li> </ol>				<ol> <li>DRAINAGE STRUCTURES</li> <li>STRUCTURES HAVE BEEN DESIGNED FOR FINAL LOADS (UNLESS STATED OTHERWISE) ACTING ON COMPLETED STRUCTURES. THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR THE DESIGN AND PROVISION OF ANY TEMPORARY BRACING, PROPPING, ETC. REQUIRED DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.</li> <li>FOUNDATION SUPPORT FOR DRAINAGE STRUCTURES MUST BE PROVIDED IN ACCORDANCE TO TRNSW SPECIFICATION TS 03254.1 (R11).</li> <li>INADEQUATE FOUNDING MATERIAL FOR PIPES AND STRUCTURES MUST BE REMOVED OR</li> </ol>							
В	CONSTRUCTION WILL  6. ALL WORK TO BE UN SPECIFICATIONS AT  7. CONCEPT DRAWING  SAFETY IN DESIGNATIONS AT DOCUMENT LISTS SO WITH THE PROJECT ASSOCIATED WITH THIS DOCUMENT. THE OBLIGATIONS UNDE	BE CONCRETE ENCASE  4. WHERE A CONNECTION THE ELEMENT MUST BE MANAGER PRIOR TO CO  5. EXISTING STORMWATEI ASSESSED FOR THE AP CAP, SEAL AND GROUT.  TRENCH DRAINS	1. FOR SUB-PAVEMENT AND SUBSURFACE DRAINAGE DETAILS REFER TO PAVEMENT DRAWINGS					<ul> <li>IMPROVED IN ACCORDANCE WITH TfNSW SPECIFICATION TS 03254.1 (R11).</li> <li>4. TfNSW STANDARD DETAILS TO BE ADOPTED ONLY WHERE REFERENCED.</li> <li>SCOUR PROTECTION</li> <li>1. SCOUR PROTECTION DETAIL SHALL BE PROVIDED IN DETAIL DESIGN.</li> <li>2. STONE USED FOR RIP RAP PROTECTION SHALL BE WELL GRADED THROUGHOUT THE RIP RAP LAYER.</li> <li>3. RIP RAP STONE IS TO BE HARD, DURABLE, AND ANGULAR IN SHAPE TO TfNSW SPECIFICATION TS 02162.1 (R55). IT SHALL BE FREE FROM OVERBURDEN, SPOIL SHALE AND ORGANIC MATTER. ROCK THAT IS LAMINATED, FRACTURES, POROUS, CONTAINS ACID SULPHATE OR OTHERWISE PHYSICAL WEAK SHALL NOT BE USED.</li> <li>4. GEOTEXTILE UNDER ROCK FILLED MATTRESS TO BE BIDIM A24 OR EQUIVALENT THAT COMPLIES</li> </ul>						
С	TfNSW MODEL D  1. TfNSW MODEL DRAW LOCATION: https://roads-waterway  FOUNDATION TR  1. FOR GROUNDWATER WORKS, REFER TO	<ol> <li>THE CONTROL AND MANALL WORK SITES DURING CONTRACTOR.</li> <li>DRAINAGE DRAWINGS STANDARDS, TINSW SU</li> <li>THE INTENDED DESIGN STRUCTURAL WORK IS</li> </ol>	<ol> <li>DRAINAGE GENERAL</li> <li>THE CONTROL AND MANAGEMENT OF EXISTING STORMWATER FLOWS THROUGH AND AROUND ALL WORK SITES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.</li> <li>DRAINAGE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATIONS, STANDARDS, TINSW SUPPLEMENTARY DRAWINGS AND 20% CONCEPT DESIGN REPORT.</li> <li>THE INTENDED DESIGN LIFE FOR PERMANENT WORKS OF THE INACCESSIBLE DRAINAGE STRUCTURAL WORK IS 100 YEARS FOR ELEMENTS THAT ARE NOT READILY ACCESSIBLE FOR REPAIR. DRAINAGE ELEMENTS THAT ARE ACCESSIBLE FOR REFURBISHMENT AND REPAIR</li> </ol>				WITH TfNSW SPECIFICAT	ON TS 02167.1 (R63).			C			
D	WORKS, REFER TO RRM7Y2T-STANA-NV  2. ALL FOUNDATION TO (R44).  3. THE FOUNDATION TO RRM7Y2T-STANA-NV TREATMENTS ARE SON CONDITIONS ON TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	INCLUDING SEDIMENTAL LIFE.  4. ALL EXISTING FARM DA CONSTRUCTION. THOSE REHABILITATED AT THE DRAWINGS.  5. WHERE CATCH DRAINS PROTECTION SHOULD E WATERCOURSE AGAINS 6. THE EXPOSURE CLASSI	INCLUDING SEDIMENTATION AND DETENTION PONDS ARE DESIGNED FOR 40 YEARS DESIGN LIFE.  4. ALL EXISTING FARM DAMS OUTSIDE THE ALIGNMENT ARE TO BE PROTECTED DURING CONSTRUCTION. THOSE THAT ARE AFFECTED CONSTRUCTION WORKS WILL NEED TO BE REHABILITATED AT THE END OF CONSTRUCTION WORKS WILL NEED TO BE REHABILITATED AT THE END OF CONSTRUCTION PERIOD UNLESS NOTED OTHER DISCOURTED ON THE DRAWINGS.  5. WHERE CATCH DRAINS' CHANNELS CONNECT TO EXISTING WATERCOURSES, SCOUR PROTECTION SHOULD BE PLACED TO PROTECT THE BANKS OF THE RECEIVING WATERCOURSE AGAINST SCOUR. TO BE DETAILED IN DETAIL DESIGN.  6. THE EXPOSURE CLASSIFICATION FOR DRAINAGE STRUCTURES SHALL BE DETERMINED IN DETAIL DESIGN IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3600: 2018.  DRAINAGE LONGITUDINAL  1. ALL DRAWINGS PIPES SHALL BE CLASS 4 RCP, UNLESS NOTED OTHERWISE.  2. PRECAST REINFORCED CONCRETE PIPES ARE TO BE MANUFACTURED IN ACCORDANCE WITH AUSTRALIAN STANDARD 4058.  3. MARINE GRADE DRAINAGE PIPES (CLASS 4 TO AS / NZ 4058:2007) SHALL BE PROVIDED IN ACID SULPHATE AREAS. LOCATIONS TO BE DETERMINED IN DETAIL DESIGN.  4. CONNECTIONS BETWEEN PIPES AND STRUCTURES ARE TO BE UNDERTAKEN IN ACCORDANCE											
E	TERRACED INTO TH  5. FOUNDATION TREAT  6. FOUNDATION TREAT THAT SPECIFIED FO  7. MIXING AND MODIFY TS02158.1 (R44) SHA UPPER ZONE FORMA  ENVIRONMENTAL	DRAINAGE LONGITO  1. ALL DRAWINGS PIPES S  2. PRECAST REINFORCED AUSTRALIAN STANDARI  3. MARINE GRADE DRAINA SULPHATE AREAS. LOC  4. CONNECTIONS BETWEE												
F	1. REFER TO QA SPECIFICATIONS G36 AND G38 FOR ENVIRONMENTAL CONSIDERATIONS.  2. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS REQUIRED DURING THE WORKS.  3. TEMPORARY SEDIMENTATION BASINS, IF REQUIRED, WILL BE CONSTRUCTED ABOVE EXISTING GROUND WITHOUT LOWERING THE EXISTING GROUND LEVEL.					WITH TfNSW SPECIFICATION R11 AND TfNSW STANDARD DRAWINGS UNLESS NOTED OTHERWISE.  5. PIPE INSTALLATION IS TO USE A TYPE HS3 SUPPORT TO AUSTRALIAN STANDARDS AS3725 AND SPECIFICATION R11. PIPES ARE TO BE FLEXIBLE RUBBER RING JOINTED SPIGOT AND SOCKET TYPE UNLESS NOTED OTHERWISE.  6. THE BED, HAUNCH, SIDE AND OVERLAY SELECTED FILL MATERIAL ZONES ARE TO BE IN ACCORDANCE WITH SPECIFICATION R11.  7. THE USE OF HS3 TYPE BACKFILLING INSTALLATION IS THE MINIMUM PERMITTED.  8. PIPES MUST BE SPIGOT AND SOCKET TYPES WITH RUBBER RING SEAL.								
G		DED DOINT ALL COD	IES IN COLOUD											DATE & TIME: 07/02/2025 10:49:58 AM FILE
Н	REFERENCES: RRM7Y2T-STANA-0537-DE-M3D-0	THIS DRA  000001  C ISSUE  (OPTIONAL, ONLY ON APPROVED DRAWINGS)	WING MAY BE PREPARED IN COLOUR AND  ED FOR 100% SUBMISSION - COMMENT CLOSE OUT ED FOR 100% SUBMISSION ED FOR 80% SUBMISSION DESCRIPTION	BB/ 07.02.25 DG/ 07.02.25 AN/ BB/ 09.12.24 DG/ 09.12.24 AN/ RC/ 05.08.24 DG/ 05.08.24 JF/	09.12.24 05.08.24 0 SCALE 1:1000 @A1	CLIENT:  NSW GOVERNMENT  PREPARED FO	Transport for NSW	This drawing and the related information have been propurpose other than the purpose intended by Transport Transport for NSW does not provide any warranties an	DRAWN A.RODRIG  DESIGNED B.BLACKE  DRSIGN CHECK K.CURLEY  DESIGN CHECK L.NICHOLS  PROJUDES MNGR J.FONG	Cocific purpose and may not be used for any rany of the related information for any be reproduced in any form without the express and the express are reproduced in any form without the express are reproduced in an	GENERAL NOTES SHEET 1 DRAWING SET No: DS STATUS: 100% CONC	DUNCIL  OND ROAD - M7  OAD WIDENING, BETA  62024/000705 EPT DESIGN  BE	ART: SHEET: 1 OF	SON RD H



