

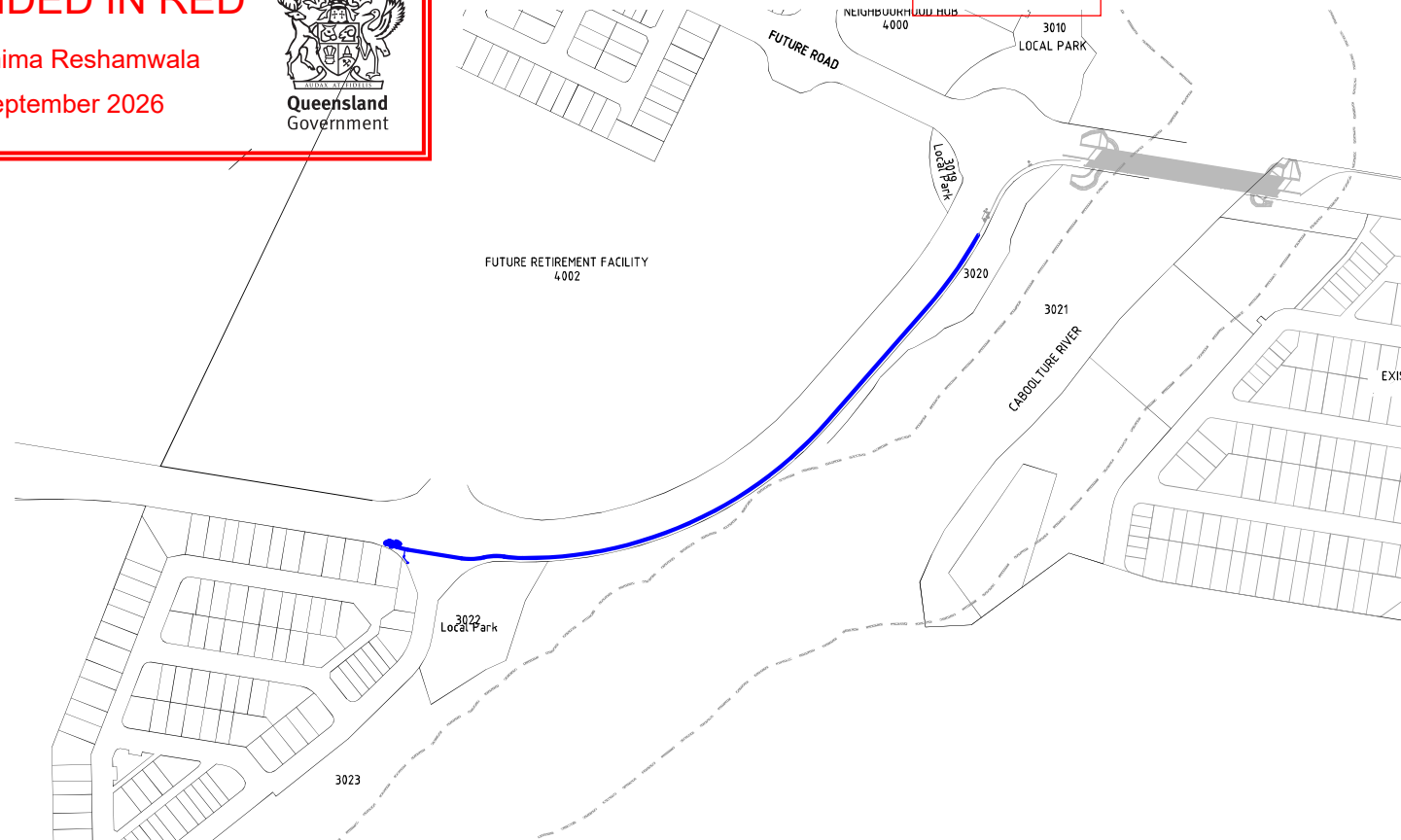


Stockland

RIVERMONT PRECINCT 3

TRUNK WATER MAIN
UNITYWATER REF : TBC

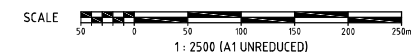
APP-24846



DRAWING INDEX

KN DRAWING NO.	UW DRAWING NO.	DRAWING TITLE
24-289-101	'WPP-WTG-C-DR-7221	LOCALITY PLAN KEY PLAN AND DRAWING INDEX
24-289-102	'WPP-WTG-C-DR-7222	TRUNK WATER MAIN LAYOUT PLAN SHEET 1
24-289-103	'WPP-WTG-C-DR-7223	TRUNK WATER MAIN LAYOUT PLAN SHEET 2
24-289-104	'WPP-WTG-C-DR-7224	TRUNK WATER MAIN LONGITUDINAL SECTIONS SHEET 1
24-289-105	'WPP-WTG-C-DR-7225	TRUNK WATER MAIN NOTES SHEET 1
24-289-106	'WPP-WTG-C-DR-7226	TRUNK WATER MAIN NOTES SHEET 2
24-289-107	'WPP-WTG-C-DR-7227	TRUNK WATER MAIN THRUST RESTRAINT DETAILS
24-289-108	'WPP-WTG-C-DR-7228	TRUNK WATER MAIN STOP VALVE DETAILS
24-289-108A	'WPP-WTG-C-DR-7229	TRUNK WATER MAIN STOP VALVE DETAILS
24-289-109	'WPP-WTG-C-DR-7230	TRUNK WATER MAIN SAFETY IN DESIGN

PLAN
SCALE 1:2500



Utilitywater Application No.	Utilitywater Drawing No.	AS SHOWN	OF OF OF
-	WPP-WTG-C-DR-7221	A1	B

DO NOT SCALE THIS DRAWING
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REVISIONS

[illegible]

Client	
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Project	
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RIVERMONT
P2 EMW ROAD
TRUNK WATER MAIN



L1, 62 Astor Terrace, Spring Hill, QLD 4000
www.kngroup.com.au | 07 3017 1900

Approved Director - RPEQ 17544

Digitally signed by Mark Shaw RPEQ
17544
Date: 2026.06.29
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Drawing Title

LOCALITY PLAN
KEY PLAN AND
DRAWING INDEX

Drawn RP	Designed AL	Checked MAS	Date MAY '26
Scale AS SHOWN			Sheet 01 of 10



PIPE SIZE	LENGTH(m)	VALVE	FIRE HYDRANT	TEMP FIRE HYDRANT	11° BEND	22° BEND	45° BEND	90° BEND
DN800 PE100	234.204	-	-	-	-	-	-	-
DN250 PE100	7.720	1	-	-	-	-	-	-

NOTE - DUCTILE IRON (DICI) PIPEWORK UNDER ROAD CARRIAGEWAYS DENOTES DICI CLASS PN35.
- PVC-O PIPEWORK DENOTES PVC-O SERIES 2 PN16
- PE PIPEWORK DENOTES PE100 PN16. SERVICE LENGTHS APPROXIMATE, TO BE CONFIRMED ON SITE.
- ALL TRENCH REINSTATEMENT TO BE IN ACCORDANCE WITH SEQ-WAT-1204-1.

- ALL CONNECTIONS TO LIVE WATER MAINS TO BE UNDERTAKEN BY UNITYWATER AT DEVELOPER'S COST. THIS INCLUDES METER INSTALLATION TO LIVE SERVICES.
- IF AN APPROVAL IS HELD FOR EACH STAGE, FOR STAGED WORKS CONSTRUCTED CONCURRENTLY, FOLLOWING THE NECESSARY PRE-START MEETING(S), THE CONTRACTOR MAY INSTALL METERS ON NON-LIVE SERVICES.

1. WATER MAIN CROSSING UNDER ROAD TO BE LOCATED UNDER ROAD PAVEMENT CONSTRUCTION
2. ALL FIRE HYDRANT TEES AND RISERS TO BE DN100, WITH PE FIRE HYDRANT RISERS DN125

NOTE
ALL WORKS ON EXISTING WATER MAINS TO BE
CARRIED OUT BY UNITYWATER AT THE DEVELOPERS
EXPENSE.

	WORKS BOUNDARY
	ROAD CENTRELINE
	B1 BARRIER KERB AND CHANNEL (300)
	SM5 SEMI-MOUNTABLE KERB
	PROPOSED DN800 PE 100 PN16 PIPE
	PROPOSED DN250 PE 100 PN16 PIPE
	CONNECTION REQUIRED BY UNITYWATER
	RETAINING WALL
	STORMWATER DRAINAGE
	SEWER MAIN
	EXISTING WATER MAIN
	EXISTING STORMWATER MAIN
	EXISTING SEWER MAIN
	EXISTING ELECTRICAL FENCE (BY OTHERS)
	DRIVEWAY POSITION
	ELECTRICITY SERVICE POINT

SCALE  1 : 500 (A1 UNREDUCED)

Unifywater Application No. -	Unifywater Drawing No. WPP-WTG-C-DR-7222
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RIVERMONT
P2 EMW ROAD
TRUNK WATER MAIN

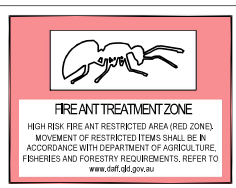


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17544
Date: 2026.06.29
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Drawn RP	Designed AL	Checked MAS	Date MAY '26
Scale AS SHOWN			Sheet 02 of 10

A1	Drawing No 24-289-102	Revision B
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PROPOSED WORKS ARE NEAR EXISTING SERVICES. CONTRACTOR TO COMPLETE DBYD AND LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION.
POST SERVICE LOCATION, CONTRACTOR TO SUPPLY SURVEY INFORMATION TO SUPERINTENDENT'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.

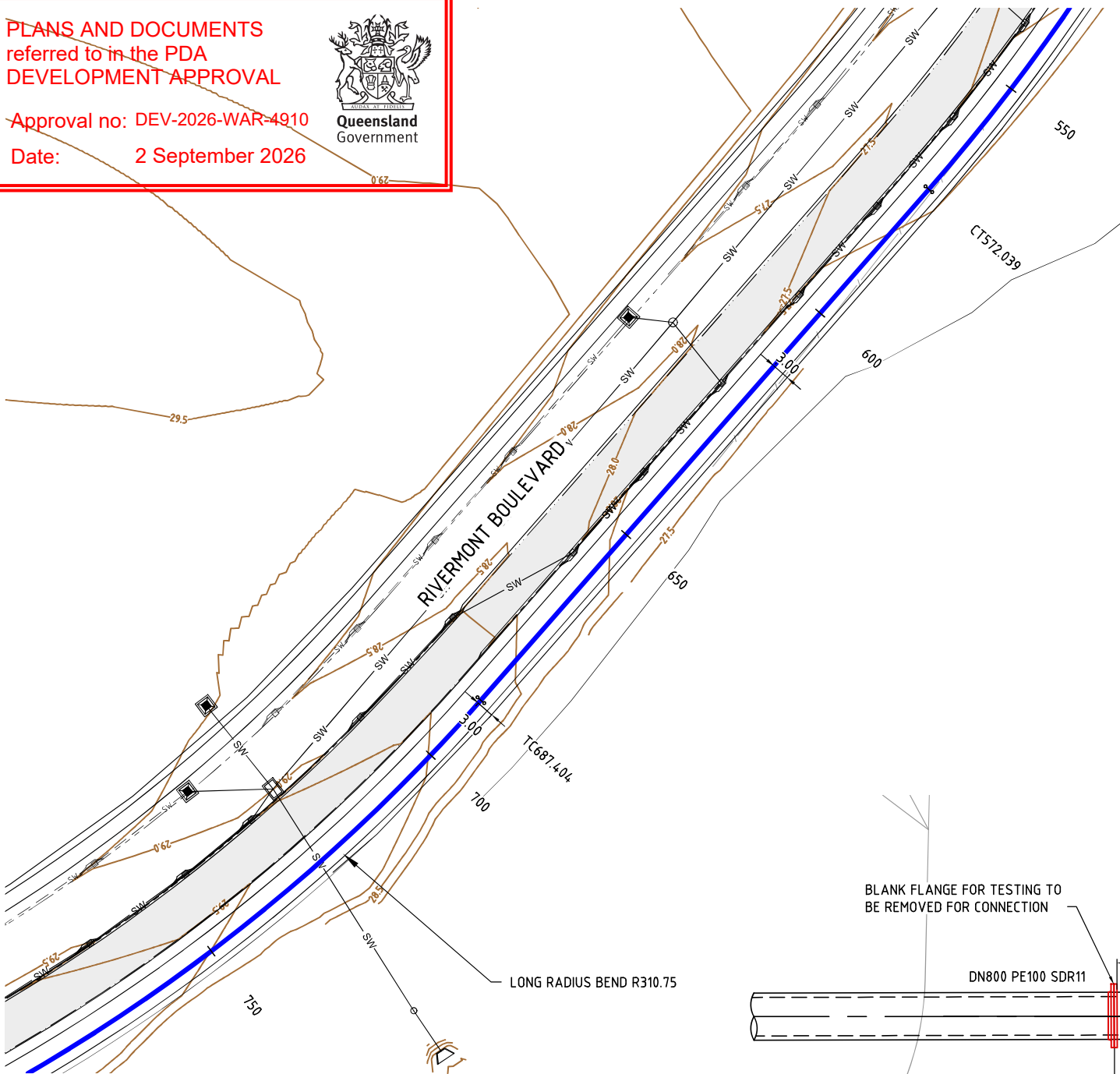
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-4910

Date: 2 September 2026



REFER KNg DWG 24-289-02



TRUNK WATER MAIN LAYOUT PLAN
SCALE 1:500

SCHEDULE OF PIPES AND FITTINGS

PIPE SIZE	LENGTH(m)	VALVE	FIRE HYDRANT	TEMP FIRE HYDRANT	11° BEND	22½° BEND	45° BEND	90° BEND
DN800 PE100	331.168	-	-	-	-	-	-	-
OD660 x 6 MSCL (BY OTHERS)	164.693	-	-	-	-	-	-	-

NOTE - DUCTILE IRON (DICI) PIPEWORK UNDER ROAD CARRIAGEWAYS DENOTES DICI CLASS PN35.
- PVC-O PIPEWORK DENOTES PVC-O SERIES 2 PN16
- PE PIPEWORK DENOTES PE100 PN16. SERVICE LENGTHS APPROXIMATE, TO BE CONFIRMED ON SITE.
- ALL TRENCH REINSTATEMENT TO BE IN ACCORDANCE WITH SEQ-WAT-1204-1.



FIRE ANT TREATMENT ZONE

HIGH RISK FIRE ANT RESTRICTED AREA (RED ZONE).
MOVEMENT OF RESTRICTED ITEMS SHALL BE IN
ACCORDANCE WITH DEPARTMENT OF AGRICULTURE,
FISHERIES AND FORESTRY REQUIREMENTS, REFER TO
www.daff.qld.gov.au



PROPOSED WORKS ARE NEAR EXISTING SERVICES. CONTRACTOR TO COMPLETE DBYD AND LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION.
POST SERVICE LOCATION, CONTRACTOR TO SUPPLY SURVEY INFORMATION TO SUPERINTENDENT'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.

NOTE

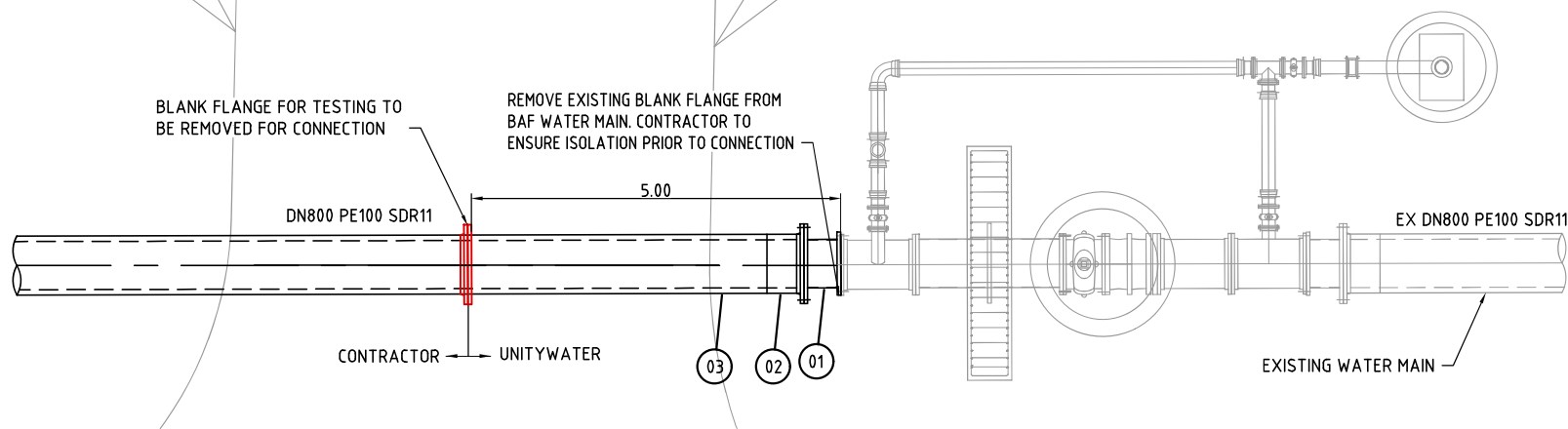
- ALL CONNECTIONS TO LIVE WATER MAINS TO BE UNDERTAKEN BY UNITYWATER AT DEVELOPER'S COST. THIS INCLUDES METER INSTALLATION TO LIVE SERVICES.
- IF AN APPROVAL IS HELD FOR EACH STAGE, FOR STAGED WORKS CONSTRUCTED CONCURRENTLY, FOLLOWING THE NECESSARY PRE-START MEETING(S), THE CONTRACTOR MAY INSTALL METERS ON NON-LIVE SERVICES.

NOTE

- WATER MAIN CROSSING UNDER ROAD TO BE LOCATED UNDER ROAD PAVEMENT CONSTRUCTION
- ALL FIRE HYDRANT TEES AND RISERS TO BE DN100, WITH PE FIRE HYDRANT RISERS DN125

NOTE

ALL WORKS ON EXISTING WATER MAINS TO BE CARRIED OUT BY UNITYWATER AT THE DEVELOPERS EXPENSE.



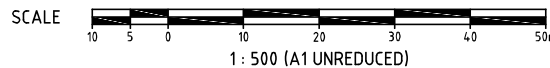
LIVE CONNECTION DETAIL
SCALE 1:100

FITTING TABLE

FITTING	ITEM	QTY	PROCUREMENT
1	OD660x6mm MSCL CUSTOM PIECE 500mm LONG WITH WELDED LOOSE FLANGES	1	CONTRACTOR
2	DN800 PE100 FULL FACED FLANGE WITH SS BACKING RING	1	UNITYWATER
3	DN800 PE100 SDR11 PIPE	1	UNITYWATER

LEGEND

---	WORKS BOUNDARY
---	ROAD CENTRELINE
---	B1 BARRIER KERB AND CHANNEL (300)
---	SMS SEMI-MOUNTABLE KERB
---	PROPOSED DN800 PE 100 PN16 PIPE
*	CONNECTION REQUIRED BY UNITYWATER
---	RETAINING WALL
---	STORMWATER DRAINAGE
---	SEWER MAIN
---	EXISTING WATER MAIN
---	EXISTING STORMWATER MAIN
---	EXISTING SEWER MAIN
---	EXISTING ELECTRICAL FENCE (BY OTHERS)
---	DRIVEWAY POSITION
---	ELECTRICITY SERVICE POINT



Unitywater Application No.

Unitywater Drawing No.

WPP-WTG-C-DR-7223

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REVISIONS

No	Description	Date	By
A	FOR APPROVAL	06.01.2025	AL
B	RFI RESPONSE	28.05.2026	DF
C	LIVE CONNECTION DETAIL UPDATED	11.08.2026	AL



Client



Project

RIVERMONT
P2 EMW ROAD
TRUNK WATER MAIN



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Approved Director - RPEQ 17544

M. Shaw

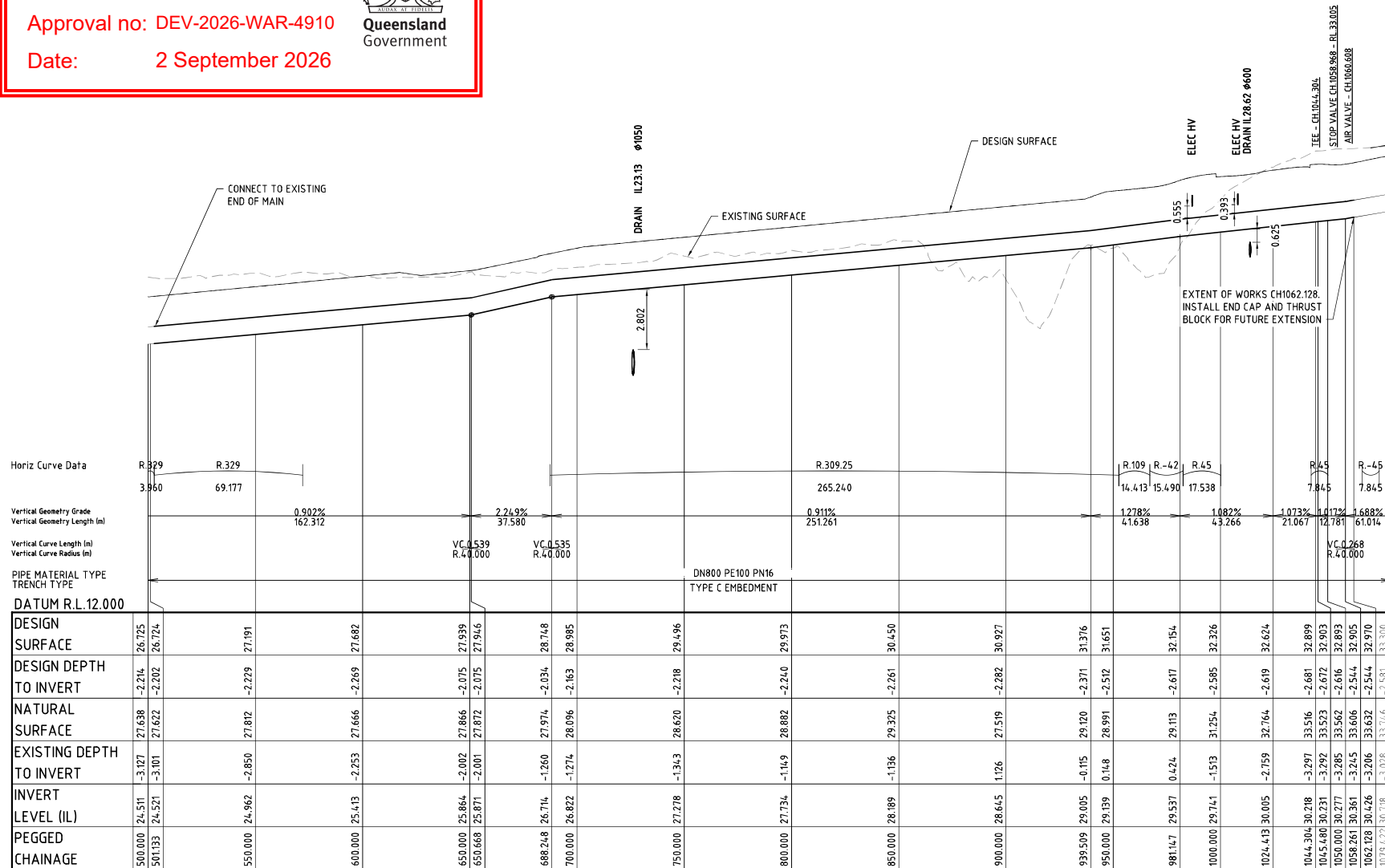
Mark Andrew Shaw BEng
(Civil), MIEAust, RPEQ 17544
2026.08.12 15:33:41 +10'00'

Drawing Title

TRUNK WATER MAIN
LAYOUT PLAN
SHEET 2

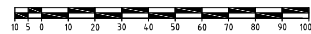
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Date: 2 September 2026



SCALE - 1:1000 (H)
1:100 (V)

SCALE A 1:1000
(Horiz.)



B 1:100
(Vert.)



(A1 UNREDUCED)

Digitally signed by
Mark Shaw RPEQ
17544
Date: 2026.06.29
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Scale AS SHOWN			Sheet 04 of 10

Unitwater Drawing No.

WPP-WTG-C-DR-7224

24-289- 104

A1

24-289- 104	B
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- G1. READ THESE DRAWINGS IN CONJUNCTION WITH OTHER ENGINEERING DRAWINGS, SPECIFICATIONS AND ANY OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED. THE STANDARD NOTES SHALL APPLY UNLESS OTHERWISE VARIED BY THE DRAWINGS OR SPECIFICATIONS.
- G2. WORKS SHALL BE EXECUTED IN ACCORDANCE WITH THE SEQ WATER SUPPLY CODE V13-2019.
- G3. THE CONTRACTOR SHALL VERIFY ALL SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS BEFORE COMMENCING CONSTRUCTION.
- G4. NOMINATION OF PROPRIETARY ITEMS DOES NOT INDICATE AN EXCLUSIVE PREFERENCE BUT INDICATES THE REQUIRED PROPERTIES OF THE ITEM. SIMILAR ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE OFFERED AS AN ALTERNATIVE.
- G5. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT.
- G6. SUPPORT ALL TRENCHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT. ALL TRENCHES OVER 15m DEEP SHALL BE SUPPORTED UNLESS CERTIFIED SAFE BY A COMPETENT PERSON WITHIN THE MEANING OF THE ACT.
- G7. UNLESS NOTED OTHERWISE, RESTORE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING SURFACES. REMOVE AND REINSTATE ALL OBJECTS ALONG THE LINE OF CONSTRUCTION SUCH AS FENCES, SIGNS ETC.
- G8. THE REMOVAL OF ASBESTOS PIPE SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CODE OF PRACTICE FOR SAFE REMOVAL OF ASBESTOS (INHSCH - 2002 (2005)).
- G9. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH ALL RELEVANT AUSTRALIAN STANDARDS, STATE GOVERNMENT AND COMMONWEALTH LEGISLATIONS, LOCAL GOVERNMENT REGULATIONS AND PROJECT SPECIFICATIONS.
- G10. MAINTAIN STRUCTURES AND EXISTING SERVICES IN A STABLE CONDITION DURING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL PIPES AND PITS FROM FLOATATION. NO PART SHALL BE OVERSTRESSED AND TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

- E1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DESIGNED BY CPSEO QUALIFIED PERSON IN ACCORDANCE WITH DEPARTMENT OF TRANSPORT AND MAIN ROADS POLICIES.
- E2. TOPSOIL ONSITE SHALL BE RETAINED AND REUSED WHEREVER POSSIBLE, AFTER APPROPRIATE TESTING (AND POSSIBLE LIME TREATMENT IF AFFECTED BY ASS). ANY DISTURBANCE OF SOILS WITHIN POTENTIAL ACID SULFATE SOIL AREAS SHALL BE MANAGED IN ACCORDANCE WITH THE ACID SULFATE SOIL MANAGEMENT PLAN.
- E3. ALL AUTHORITIES LICENCES AND PERMITS MUST BE ACQUIRED BY THE CONTRACTOR PRIOR TO COMMENCING ground CLEARING ACTIVITIES. PRIOR TO CLEARING, THE CONSTRUCTION ENVIRONMENTAL COORDINATOR SHALL BE CONSULTED TO ENSURE ALL APPROVALS AND AUTHORISATIONS ARE IN PLACE.
- E4. CLEARING IS TO BE CONSIDERED WHERE POSSIBLE AND AS DIRECTED BY THE ENVIRONMENTAL COORDINATOR. NO CLEARING IS TO OCCUR WITHIN IDENTIFIED EXCLUSION ZONE AREAS. THE ENVIRONMENTAL COORDINATOR MUST BE CONTACTED PRIOR TO CLEARING OF CRITICAL VEGETATION AREAS AND MINIMAL IMPACT AREAS. CRITICAL VEGETATION AREAS ARE IDENTIFIED AS CRITICAL KOALA HABITAT AREAS (HIGH AND MEDIUM VALUE) WHICH ARE PROTECTED UNDER THE EPBC ACT.

ES1. MINIMUM CLEARANCE TO EXISTING SERVICES TO BE AS PER SEQ WS&S D&C CODE UNLESS OTHERWISE SHOWN.

ES2. NOTWITHSTANDING THAT THE PRESENT AND/OR PROPOSED POSITION OF UNDERGROUND SERVICES MAY BE INDICATED ON DRAWINGS, THEIR POSITION AND DEPTH IS APPROXIMATE ONLY. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CONTACT ALL RELEVANT AUTHORITIES AND SHALL POT-HOLE ALL SERVICES TO OBTAIN DETAILED LOCATIONS. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT OF ANY CONFLICTS BETWEEN THE PROPOSED MAIN AND EXISTING SERVICES. THE SUPERINTENDENT SHALL ADVISE OF DETAILS OF ANY REQUIRED CHANGES TO ALIGNMENT OR LEVEL, OR ARRANGE FOR CHANGES TO SERVICES.

ES3. TAKE APPROPRIATE ACTION TO PROTECT AND MAINTAIN UTILITY WATER'S AND OTHER AUTHORITIES' EXISTING SERVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL CHECK THE LOCATION OF ALL EXISTING SERVICES. SHOULD ANY DAMAGE BE DONE TO ANY UNDERGROUND OR OVERHEAD SERVICES, THE CONTRACTOR SHALL, WITHOUT DELAY, ARRANGE WITH APPROPRIATE AUTHORITY TO MAKE GOOD AND REPAIR SAME, AND THE COST OF SUCH REPAIRS SHALL BE BOURNE BY THE CONTRACTOR. WHERE INFORMATION CONCERNING ANY EXISTING SERVICES IS GIVEN ON THE DRAWINGS, IT IS GIVEN IN GOOD FAITH; BUT ONLY IMPLIED AS TO ITS ACCURACY.

ES4. ALL TEMPORARY WORKS AND SIGNAGE SHALL COMPLY WITH THE QUEENSLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS 1742.

PW1. THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, PROVIDE ALL PLANT, MATERIALS AND LABOUR NECESSARY TO PROTECT THE WORKS FROM DAMAGE BY INCLEMENT WEATHER OR ANY OTHER CAUSES. LOW POINTS OF EXCAVATIONS WHERE WATER MAY COLLECT SHALL BE KEPT THOROUGHLY DRAINED BY MECHANICAL OR GRAVITATIONAL MEANS.

PW2. DRAINS OR WATER COURSES UTILISED FOR THIS PURPOSE SHALL BE CLEANED OUT AND MAINTAINED FREE OF SILT OR OTHER MATERIAL TO THE SATISFACTION OF THE SUPERINTENDENT.

PW3. THE CONTRACTOR SHALL PREVENT, IN SO FAR AS IS REASONABLY POSSIBLE, ANY MATERIAL ENTERING ANY GULLY, MANHOLE OR PIPE, AND SHALL REMOVE FROM THE DRAINAGE SYSTEM, ANY MATERIAL FROM ANY SOURCE WHICH MAY BE DEPOSITED IN THE DRAINAGE SYSTEM BY ANY AGENCY UP TO THE DATE OF PRACTICAL COMPLETION.

Date: 2 September 2026



- P1. WHERE CONNECTING TO EXISTING PIPEWORK, THE LEVEL AND DIAMETER OF THE EXISTING PIPEWORK SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO ORDERING FITTINGS AND COMMENCING CONNECTION WORKS.
- P2. ALL FLANGES SHALL BE IN ACCORDANCE WITH AS 4087, CLASS 16 FOR STEEL AND DUCTILE IRON.
- P3. ALL FLANGE BOLT HOLE ORIENTATIONS SHALL BE OFF-CENTRE.
- P4. ALL FLANGE BOLT SETS SHALL BE GRADE 316 STAINLESS STEEL. REFER AS 4087, TABLE C1 FOR CLASS.
- P5. FLANGE GASKET MATERIAL AND THICKNESS SHALL BE IN ACCORDANCE WITH AS 4087, TABLE C1.
- P6. ALL DUCTILE IRON PIPE SHALL BE CEMENT LINED, RUBBER RING JOINTED, PN35 MANUFACTURED TO AS 2280.
- P7. ALL DUCTILE IRON FLANGES SHALL BE DRILLED TO AS 4087 FIGURE B6.
- P8. ALL DUCTILE IRON FITTINGS TO BE PN16 AND SHALL BE COATED INTERNALLY AND EXTERNALLY WITH FUSION BONDED NYLON (FBN) OR FUSION BONDED EPOXY (FBE).
- P9. ALL BURIED DUCTILE IRON PIPEWORK INCLUDING FLANGED JOINTS, FITTINGS AND MECHANICAL COUPLINGS SHALL BE WRAPPED IN POLYETHYLENE SLEEVING IN ACCORDANCE WITH AS 3681.
- P10. ALL PROPRIETARY MATERIALS SHALL BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- P11. ALL VALVES TO BE RESILIENT SEATED.
- P12. CHANGES IN HORIZONTAL AND VERTICAL ALIGNMENT, OTHER THAN BY BENDS, SHALL BE ACHIEVED BY DEFLECTING PIPE JOINTS BY A MAXIMUM OF 2 DEGREES PER PIPE JOINT. WHERE CHANGES IN PIPE GRADES SHOWN ON THE DRAWINGS EXCEED 2 DEGREES, THE DEFLECTION SHALL BE SPREAD BETWEEN ADJACENT JOINTS.
- P13. WHERE NON-METALIC PIPIES ARE USED A DETECTABLE MARKING TAPE COMPLYING WITH AS 2648.1 SHALL BE INSTALLED. MARKER TAPE SHALL BE COLOURED BLUE FOR POTABLE WATER AND CREAM FOR SEWAGE APPLICATIONS.
- P14. PIPELINES SHALL NOT BE CONSTRUCTED IN UNCONTROLLED FILL. THE CONTRACTOR SHALL PROVIDE TEST CERTIFICATES TO THE SUPERINTENDENT DEMONSTRATING THAT FILL IS COMPACTED 95% RELATIVE DENSITY TO AS 12895.2.1.
- P15. PIPE EMBEDMENT MATERIAL SHALL BE:
 - 5 To 7mm SINGLE SIZED MATERIAL TO WSA PS-351; OR
 - 10mm SINGLE SIZED RECYCLED AGGREGATE MATERIAL TO WSA PS-366.

- C1. MINIMUM CLEAR COVER TO MAINS, UNLESS NOTED OTHERWISE, SHALL BE 1200MM (MIN.) UNDER CARRIAGEWAYS OF MOTORWAYS/FREWAYS.
- C2. EMBEDEDMENT AND TRENCH FILL SHALL BE INSTALLED AS PER PROJECT DRAWINGS AND SEQ W&S& D&C CODE STANDARD DRAWINGS SEQ-WAT-1200-1 TO 1204-1.
- C3. ALL HORIZONTAL BENDS TO HAVE THRUST BLOCKS INSTALLED AS PER SEQ W&S& D&C CODE STANDARD DRAWING SEQ-WAT-1205-1.
- C4. THRUST RESTRAINTS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON SITE PLANS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEQ W&S& D&C CODE STANDARD DRAWING SEQ-WAT-1205-1.
- C5. TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY.
- C6. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- C7. NO SOIL MUST BE STOCKPILED WITHIN 5M OF ANY CREEK OR WATER COURSE.
- C8. WORKS WITHIN ROAD RESERVES SHALL BE UNDERTAKEN IN THE STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT ROAD AUTHORITY.
- C9. PRE-CHLORINATED PIPES AND FITTINGS MUST BE USED WHERE INDICATED ON PROJECT DRAWINGS.
- C10. SEWAGE VALVE AND HYDRANT ROAD AND PAVEMENT MARKERS IDENTIFICATION MARKER POSTS AS PER SEQ W&S& D&C CODE STANDARD DRAWING SEQ-WAT-1300-1 AND 1300-2.
- C11. SEWAGE VALVE, SCOUR AND AIR VALVE IDENTIFICATION MARKER POSTS AS PER PROJECT DRAWINGS.
- C12. TRACER WIRE SPECIFICATION, AS REQUIRED BY: x SEQ WATER SUPPLY CODE V13-2019, SS.5.4.16 MARKING TAPE, SS.5.4.16 MAINS, AND x P9788 - SPECIFICATION FOR HORIZONTAL DIRECTIONAL DRILLING REV.5, S76.14. TAPEX TRACER WIRE ONLY IS SPECIFIED BY SEQ CODE DEC-2020 CIVIL IPAM LIST. ROW 755.

TB1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PLACEMENT OF PIPELINE RESTRAINTS AT ALL LOCATIONS WHERE UNBALANCED THRUST EXIST AND TRANSMIT ALL THRUST LOADS TO THE ADJACENT NATIVE SOIL OR ROCK.

TB2. TEST PRESSURE FOR PRESSURE PIPELINES SHALL BE AS FOLLOWS:
- WATER SUPPLY MAINS = 1200 KPA
APPLIED AS CLOSE AS PRACTICABLE TO THE LOWEST POINT OF THE MAIN" PER SEQ. WATER SUPPLY CODE SECTIONS 3.5 SYSTEM TEST PRESSURE AND SECTION 19.4 HYDROSTATIC PRESSURE TESTING AND STANDARD DRAWING SEQ-WAT-1205-(1B)

TB3. NATIVE GROUND CONDITIONS, WITH RESPECT TO THRUST BLOCKS, SHALL BE ASSESSED IN ACCORDANCE WITH SEQ WS&S D&C CODE.

TB4. ALL THRUST BLOCKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEQ WS&S D&C CODE.

TB5. ALL THRUST BLOCKS SHALL BE CAST AGAINST UNDISTURBED GROUND.

TB6. THE SUITABILITY OF ALL THRUST RESTRAINTS SHALL BE CONFIRMED AFTER EXCAVATION AND PRIOR TO THE PLACEMENT OF CONCRETE BY AN RP&Q GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL SUPPLY TO THE SUPERINTENDENT A FORM 16 STRUCTURAL CERTIFICATION FOR EACH THRUST RESTRAINT LOCATION.

TB7. THE USE OF 'TYTON-LOK' JOINTS FOR PIPE RESTRAINT IS NOT PERMITTED.

PE1 ALL PE PIPES AND FITTINGS SHALL BE MATERIAL GRADE PE100 TO AS4130.
PE2 WATER MAIN SHALL BE TO BE A MINIMUM CLASS PN16. WHERE PIPE CLASSIFICATION IS NOT SPECIFIED, CONSULT WITH DESIGN CONSULTANT.
PE3 PE PIPE COLOUR SHALL BE: BLUE STRIPE
PE4 PE PIPES WITH CRACKS, SCORES OR SCRATCHES DEEPER THAN 10% OF THE WALL THICKNESS SHALL BE REJECTED.

PW1	ALL PE PIPE-TO-PIPE JOINTS SHALL BE FUSION BUTT-WELDED; USE OF ELECTROFUSION WELDING FOR PIPE-TO-PIPE JOINTS IS NOT PERMITTED.
PW2	PE WELDING MUST ONLY BE CARRIED OUT BY CERTIFIED PERSONS; (A) IN ACCORDANCE WITH PARTEC REQUIREMENTS AND (B) WHO HAS SUCCESSFULLY CARRIED OUT PREVIOUS PE PRESSURE PIPELINE WELDING PROJECTS OF A SIMILAR SIZE. (C) EVIDENCE OF CERTIFIED PERSONS PE WELDING EXPERIENCE MUST BE PROVIDED PRIOR TO COMMENCEMENT OF PE WELDING WORK.
PW3	FUSION BUTT-WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH WSA 01-2004, AS.2033, AS.2566.2 AND THE PE PIPE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
PW4	JOINTS SHALL ONLY BE MADE BETWEEN PIPE MATERIALS OF THE SAME GRADE AS DEFINED IN AS.4130.
PW5	FUSION BUTT-WELDED JOINTS SHALL ACHIEVE AT LEAST 90% OF THE TENSILE STRENGTH OF THE PARENT PIPE. INTERNAL WELD BEADS SHALL NOT BE REMOVED.
PW6	ALL WELDING SHALL BE PERFORMED UNDER CONTROLLED ENVIRONMENTAL CONDITIONS. FIELD WELDING SHALL BE CARRIED OUT IN SHELTERS TO PREVENT DUST AND WATER CONTAMINATION. SHELTERS SHALL REMAIN IN PLACE UNTIL COMPLETION OF THE JOINT COOLING PERIOD. PIPE ENDS SHALL BE BLOCKED OFF TO PREVENT WIND CHILL AND DIRT CONTAMINATION.
PW7	WELDING MACHINES USING HAND WOUND CARRIAGES WITHOUT PRESSURE GAUGES SHALL NOT BE USED. AT ALL TIMES THAT WELDING IS IN PROGRESS, THE WELDER SHALL HAVE AVAILABLE A HAND-HELD TEMPERATURE SENSING DEVICE (CAPABLE OF CHECKING THE TEMPERATURE OF THE HEATER PLATE AT THE CIRCUMFERENCE OF THE WELD).

TESTING WILL BE IN ACCORDANCE WITH SEQ. WATER SUPPLY CODE SECTIONS:

- 3.5 SYSTEM TEST PRESSURE;
- 12 ORDER OF CONSTRUCTION, TESTING AND COMMISSIONING;
- 9.1 (ACCEPTANCE TESTING) GENERAL; AND
- 9.4 HYDROSTATIC PRESSURE TESTING

1. CONCRETE WORKMANSHIP AND MATERIALS TO COMPLY WITH AS 3600 AND AS 3610.
2. CONCRETE TO COMPLY WITH AS 1379, AS 1478.1, AS 1478.2, AS 3582.1 AS 3582.2, AS 3582.3 AND AS 3972.
3. SLUMP TO BE AS REQUIRED FOR PLACEMENT, COMPACTION AND FINISHING. A SAMPLE OF FRESH CONCRETE SHALL BE TESTED FOR SLUMP AND STRENGTH UPON ARRIVAL ON SITE.
4. WATER NOT TO BE ADDED TO CONCRETE AFTER TRUCK HAS LEFT BATCHING PLANT UNLESS APPROVED OTHERWISE.
5. TEST SLUMP OF EACH BATCH OF CONCRETE DELIVERED.
6. DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF FORMWORK BY CONTRACTOR.
7. CONCRETE CONSTRUCTION TOLERANCES TO AS 3610.
8. CONCRETE SIZES DO NOT INCLUDE FINISHES. SIZES NOT TO BE REDUCED OR PENETRATIONS ADDED.
9. CONDUITS, PIPES, ETC. NOT TO BE PLACED IN CONCRETE COVER TO THE REINFORCEMENT.
10. EXPOSED EDGES AND RE-ENTRANT CORNERS TO HAVE 25mm CHAMFERS OR FILLETS UNLESS NOTED OTHERWISE.
11. CONSTRUCTION JOINTS AS DETAILED AND LOCATED ON DESIGN DRAWINGS.
12. CONCRETE SURFACE FINISHES TO AS 3610.
 - FORMED EXPOSED SURFACES CLASS 2
 - CONCRETE TEMPERATURE NOT TO EXCEED TEMPERATURES STATED BELOW.

CONCRETE STRUCTURE	CONCRETE STRENGTH f'_c	TEMPERATURE LIMIT
CONCRETE SECTIONS LESS THAN 600mm THICK.	EQUAL TO OR MORE THAN 40MPa.	35°C
CONCRETE SECTIONS EQUAL TO OR GREATER THAN 600mm THICK.	EQUAL TO OR MORE THAN 40MPa.	27°C

14. CONCRETE CURING TO AS3600 AS SOON AS POSSIBLE AFTER PLACING AND FINISHING.
15. CONCRETE GRADE N32.

COMPRESSIVE STRENGTH AT 28 DAYS	32 MPa
MINIMUM CEMENT CONTENT	380 kg/m ³
MAXIMUM CEMENTITIOUS MATERIAL	25%
MAXIMUM WATER/CEMENT RATIO	0.45
NOMINAL SLUMP	80mm±15
MAXIMUM SHRINKAGE AT 56 DAYS	900 x 10 ⁻⁶ (-5% MAXIMUM)
MAXIMUM AGGREGATE SIZE	20mm
MINIMUM AGGREGATE SIZE	10mm

16. BENCHING FINISH SHALL CONSIST OF EQUAL PARTS OF CEMENT AND SAND.

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Clare



Project

RIVERMONT
P2 EMW ROAD
TRUNK WATER MAIN



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Approved Director - RPEQ 1754

M. Shaw
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17544
Date: 2026.06.29
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Drawing Title:

TRUNK WATER MAIN
NOTES
SHEET 1

Drawn RP	Designed AL	Checked MAS	Date MAY' 26
Scale AS SHOWN			Sheet 05 of 1

Utilitywater Application No. -	Utilitywater Drawing No. WPP-WTG-C-DR-7225	A1	Drawing No 24-289-105	Revision B
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SS1. THE FOLLOWING CURRENT UNITYWATER SPECIFICATION SHALL APPLY TO THE NEW WORKS:

	QUEENSLAND ACID SULFATE SOIL TECHNICAL MANUAL SOIL MANAGEMENT GUIDELINES V4.0 (2014)
	WSAA DECHLORINATION OF DRINKING WATER DISCHARGED TO WATERWAYS – NATIONAL GUIDANCE FOR THE URBAN WATER INDUSTRY 2019
F9785	WATER HYGIENE FIELD GUIDE (A3039642)
F10045	WATER QUALITY MAINS COMMISSIONING FORM
Pr8701	SPECIFICATION FOR ASSET INFORMATION
Pr8871	SPECIFICATION FOR COMMISSIONING OF NETWORK PROJECT ASSETS
Pr9032	PROCEDURE FOR MANAGING WATER QUALITY DURING MAINS COMMISSIONING
Pr9087	PRESSURE TESTING OF WATER MAINS WORK INSTRUCTION
Pr9693	SPECIFICATION FOR MECHANICAL INSTALLATIONS
Pr9787	SPECIFICATION FOR MICROTUNNELLING AND PIPE JACKING
Pr9825	SPECIFICATION FOR SHAFTS
Pr9875	SPECIFICATION FOR NON-PRESSURE PIPELINE CONSTRUCTION
Pr9902	SPECIFICATION FOR CIVIL AND EARTHWORKS
Pr9903	SPECIFICATION FOR BUILDING AND STRUCTURAL WORKS
Pr9904	SPECIFICATION FOR PRESSURE PIPELINE CONSTRUCTION
Pr11034	SPECIFICATION FOR TRUNK WATER MAINS DESIGN AND CONSTRUCTION

SS2. THE FOLLOWING CURRENT DESIGN, CONSTRUCTION AND MATERIALS SPECIFICATIONS SHALL APPLY TO THE NEW WORKS:-

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE ACCEPTED CIVIL INFRASTRUCTURE PRODUCTS AND MATERIALS LIST
SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE ACCEPTED MECHANICAL EQUIPMENT LIST
SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE
SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE ASSET INFORMATION SPECIFICATION
WSAA POLYETHYLENE PIPELINE CODE WSA 01-2004

AC1. THE CONTRACTOR MUST PROVIDE ALL "AS CONSTRUCTED" INFORMATION AS DESCRIBED IN ACCORDANCE WITH SEQ WS&S D&C CODE - ASSET INFORMATION SPECIFICATION.

AC2. ALL DRAWINGS SHALL, AFTER COMPLETION OF CONSTRUCTION BE AMENDED BY THE CONTRACTOR TO SHOW IN DETAIL THE WORK "AS CONSTRUCTED". THE CONTRACTOR SHALL ENSURE THAT ALL "AS CONSTRUCTED" SURVEY WORK INCLUDING PLAN PREPARATION IS COMPLETED BY A LICENSED SURVEYOR. WHERE AN AS-CONSTRUCTED CONDITION REQUIRES A DRAWING TO BE AMENDED THEN THE CONTRACTOR SHALL ENSURE ALL RELATED DRAWINGS INFLUENCED BY THIS AMENDMENT SHALL SIMILARLY BE AMENDED.

AC3. "AS CONSTRUCTED" DRAWINGS ARE TO BE SUBMITTED TO UNITYWATER FOR APPROVAL. THE "AS CONSTRUCTED" DRAWINGS ARE TO BE PREPARED IN ACCORDANCE WITH UNITYWATER'S SPECIFICATION FOR "AS CONSTRUCTED" INFORMATION AND THE "UNITYWATER CAD STANDARD".

AC4. ALL COSTS ASSOCIATED WITH MEETING THE ABOVE REQUIREMENTS IN RELATION TO "AS CONSTRUCTED" DRAWINGS, NOTWITHSTANDING THAT SOME AMENDMENTS MAY HAVE BEEN REQUIRED AS THE RESULT OF THE INSTRUCTIONS ISSUED BY THE ADMINISTRATOR, SHALL BE DEEMED TO BE INCLUDED IN THE LUMP SUM ITEM FOR "AS CONSTRUCTED" SURVEY AND DRAWINGS IN THE BILL OF QUANTITIES.

AC5. SHOULD IT BE FOUND SUBSEQUENT TO COMPLETION THAT THE CONTRACTOR HAS FAILED TO AMEND ALL OR SOME OF THE DRAWINGS AS REQUIRED ABOVE THEN THE ADMINISTRATOR AT HIS DISCRETION MAY PROCEED TO HAVE THE NECESSARY AMENDMENTS CARRIED OUT WITHOUT FURTHER REFERENCE TO THE CONTRACTOR.

AC6. ALL COSTS ASSOCIATED WITH OBTAINING INFORMATION & CARRYING OUT THESE AMENDMENTS WILL BE DEDUCTED FROM ANY MONIES OTHERWISE OWING TO THE CONTRACTOR UNDER THE TERMS OF THIS CONTRACT, PROVIDED THAT THE REASON FOR SUCH AMENDMENT WAS NOT AS A RESULT OF AN INSTRUCTION GIVEN BY THE ADMINISTRATOR ORDERING ADDITIONAL WORKS.

AC7. THE CONTRACTOR MAY CALLED UPON TO FURTHER AMEND THE "AS CONSTRUCTED" DRAWINGS SHOULD IT BE FOUND NECESSARY FOR THE ADMINISTRATOR TO ORDER MODIFICATIONS TO THE WORK. THE CONTRACTOR SHALL BE ENTITLED TO PAYMENT FOR THIS WORK ON A TIME BASIS AT CURRENT CONTRACT DRAFTING RATES AND RULING PLAN PRINTING CHARGES UNLESS THE MODIFICATION WAS NECESSARY BECAUSE OF FAULTY, INCORRECT WORK OR PLANT BELOW SPECIFIED PERFORMANCE ON THE PART OF THE CONTRACTOR IN WHICH CASE NO ADDITIONAL PAYMENT WILL BE MADE.

AC8. DISUSED AND REMOVED INFRASTRUCTURE SHALL BE RECORDED BY THE CONTRACTOR AND SHALL BE SHOWN ON THE "AS CONSTRUCTED" DRAWINGS.

D01. A CONSOLIDATED DEFECTS AND OMISSIONS PUNCHLIST WILL BE GENERATED FOR UNITYWATER AS A RESULT OF A SITE WALKOVER PRIOR TO CONSTRUCTION COMPLETION AND COMMENCEMENT OF COMMISSIONING. THIS PUNCHLIST WILL BE MAINTAINED THROUGHOUT THE COMMISSIONING PROCESS TO KEEP A COMPREHENSIVE LIST OF ALL DEFECTS/OMISSIONS THAT MAY AFFECT COMMISSIONING, OPERATION AND GENERAL ACCEPTANCE BY UNITYWATER.

D02. EACH DEFECT/OMISSION WILL BE RECORDED AND ASSIGNED A CLASSIFICATION AT THE DISCRETION OF UNITYWATER. THE CLASSIFICATION DETERMINES WHEN THE CONTRACTOR SHALL RESOLVE THE DEFECT/OMISSION.

THE TWO CLASSIFICATION CATEGORIES ARE:

- MAJOR DEFECTS - MUST BE RECTIFIED BEFORE ACCEPTANCE ON-MAINTENANCE AND
- MINOR DEFECTS - MUST BE RECTIFIED BEFORE THE END OF THE DEFECTS LIABILITY PERIOD

W1. ALL WARRANTIES ARE TO BE ISSUED IN THE NAME OF UNITYWATER.
W2. COPIES OF WARRANTIES ARE TO BE IN THE FORM STATED IN THE SPECIFICATION FOR ASSET INFORMATION.

1. REINFORCEMENT FOR THE TOP SLABS SHALL BE A PRE-FABRICATED ELEMENT.
2. REINFORCEMENT TO COMPLY WITH AS 4671.
3. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE:
 - R - STRUCTURAL GRADE 250 PLAIN ROUND BARS
 - N - HOT ROLLED GRADE 500 DEFORMED BAR, DUCTILITY CLASS N
 - L - HOT ROLLED GRADE 500 DEFORMED BAR, DUCTILITY CLASS L
 - SL - HARD DRAWN WIRE GRADE 500 MESH, DUCTILITY CLASS L
 - RL - HARD DRAWN WIRE GRADE 500 MESH, DUCTILITY CLASS L
 - W - STEEL REINFORCING WIRE GRADE 500
4. REINFORCEMENT DESIGNATION AS FOLLOWS (E.G. 14N16-250 EF)
 - 14 - NUMBER OF BARS
 - N - BAR GRADE AND DUCTILITY CLASS
 - 16 - BAR DIAMETER IN mm
 - 250 - SPACING OF BARS IN mm
 - EF - LOCATION
5. ABBREVIATIONS TO REINFORCEMENT LOCATION.
 - EW - EACH WAY
 - EF - EACH FACE
 - B - BOTTOM
 - T - TOP
 - CP - CENTRALLY PLACED
6. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY ONLY AND NOT NECESSARILY IN TRUE PROJECTION.
7. REINFORCEMENT TO BE FIXED SECURELY AND SUPPORTED ON PROPRIETY CONCRETE, METAL OR PLASTIC SUPPORTS.
8. REINFORCEMENT TO BE SPLICED AS SHOWN ON PROJECT DRAWINGS. LAP LENGTHS TO COMPLY WITH AS 3600 AND TABLE 10.1 UNO.

BAR SIZE	LAP LENGTH (mm)
N12	350
N16	500
N20	600
N24	700
N28	850
N32	950

9. REINFORCEMENT NOT TO BE WELDED UNLESS SHOWN ON PROJECT DRAWINGS OR APPROVED OTHERWISE.
10. REINFORCEMENT NOT TO BE BENT, CUT OR HEATED ON SITE UNLESS APPROVED OTHERWISE.
11. REINFORCEMENT TO BE CLEAN, FREE OF MILL SCALE, RUST, OIL, GREASE ETC.
12. DOWEL LOCATION TOLERANCE SHALL BE +/- HALF THE DIAMETER OF THE DOWEL. THE ALIGNMENT TOLERANCE SHALL BE 2mm IN 300mm.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

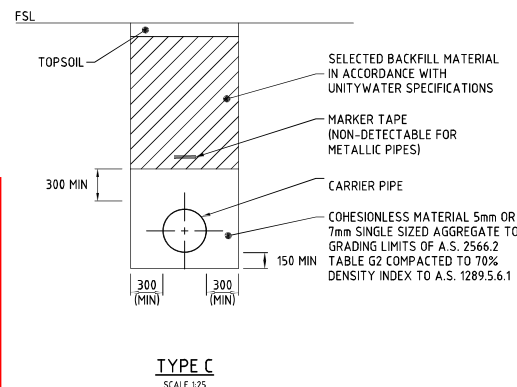
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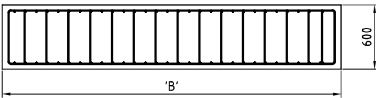
Date: 2 September 2026



- THE TERM 'PRACTICAL COMPLETION' IS NOT RECOGNISED BY UNITYWATER FOR DEVELOPER DONATED INFRASTRUCTURE AND IS RESERVED AS A CONTRACTUAL TERM FOR USE BETWEEN THE DEVELOPER, CONSULTING ENGINEER, AND PRINCIPAL CONTRACTOR.
- THE WATER SUPPLY MAIN SEWER WORKS, DOCUMENTED IN THIS PACKAGE 2, WILL NOT BE ACCEPTED 'ON-MAINTENANCE' BY UNITYWATER AS A STANDARD ASSET

DRAWING No.	DRAWING TITLE REV NO.	REV NO.
SEQ-WAT-1102-1	TYPICAL MAINS CONSTRUCTION RETICULATION MAIN ARRANGEMENTS	D
SEQ-WAT-1105-1	TYPICAL CONNECTION TO EXISTING MAINS SHEET 1 OF 2	D
SEQ-WAT-1105-2	TYPICAL CONNECTION TO EXISTING MAINS SHEET 2 OF 2	E
SEQ-WAT-1200-1	TYPICAL SOIL CLASSIFICATION GUIDELINES AND ALLOWABLE BEARING PRESSURES FOR ANCHORS & THRUST BLOCKS	B
SEQ-WAT-1200-2	EMBEDMENT & TRENCHFILL TYPICAL ARRANGEMENT	D
SEQ-WAT-1201-1	STANDARD EMBEDMENT TYPICAL FLEXIBLE & RIGID PIPES	B
SEQ-WAT-1204-1	TYPICAL TRENCH AND BEDDING DETAILS WITHIN EXISTING ROADS TYPE K TO N	C
SEQ-WAT-1205-1	TYPICAL THRUST BLOCK DETAILS MASS CONCRETE	C
SEQ-WAT-1206-1	TYPICAL THRUST AND ANCHOR BLOCKS FOR VALVES AND PE - RRJ TRANSITION	E
SEQ-WAT-1207-1	TYPICAL THRUST AND ANCHOR BLOCKS FOR VERTICAL BENDS	B
SEQ-WAT-1208-1	TYPICAL RESTRAINED JOINT SYSTEM DN 100 TO DN 375 DI MAINS	D
SEQ-WAT-1212-1	TYPICAL BURIED CROSSINGS MAJOR ROADWAYS	C
SEQ-WAT-1214-1	TYPICAL BURIED CROSSINGS BORED AND JACKED ENCASE PIPE DETAILS	D
SEQ-WAT-1300-1	TYPICAL VALVE, HYDRANT AND WATER MAIN ROAD CROSSING ROAD AND PAVEMENT MARKERS	E
SEQ-WAT-1300-2	TYPICAL VALVE AND HYDRANT IDENTIFICATION MARKER POSTS	D
SEQ-WAT-1301-1	TYPICAL VALVE INSTALLATION GENERAL ARRANGEMENT	E
SEQ-WAT-1305-1	TYPICAL SURFACE FITTING INSTALLATION VALVE AND HYDRANT SURFACE BOXES TRAFFICABLE AND NON-TRAFFICABLE	C
SEQ-WAT-1306-1	TYPICAL SURFACE FITTING INSTALLATION VALVE AND HYDRANT SURFACE BOXES SUPPORT AND SURROUND DETAILS	D
SEQ-WAT-1307-3	TYPICAL APPURTENANCE INSTALLATION SCOUR ARRANGEMENTS	D
SEQ-WAT-1313-1	FLANGED JOINTS TYPICAL BOLTING DETAILS	B
SEQ-WAT-1409-1	HYDRANT INSTALLATION FITTINGS TYPICAL PE ASSEMBLIES NOMENCLATURE	B
SEQ-WAT-1410-1	TYPICAL CHLORINATION TEST POINT DETAILS	B

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SECTION
SCALE 1:25

M SECTION THRUST RESTRAINT DETAIL
- SCALE 1:25 (2.370m)

Utilitywater Application No.	Utilitywater Drawing No.	AS SHOWN	07-01-10
-	WPP-WTG-C-DR-7227	A1	Revision 24-289-107 B

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Drawing Title

TRUNK WATER MAIN THRUST RESTRAINT DETAILS

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Scale AS SHOWN			Sheet 07 of 10

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Stockland

RIVERMONT
P2 EMW ROAD
TRUNK WATER MAIN

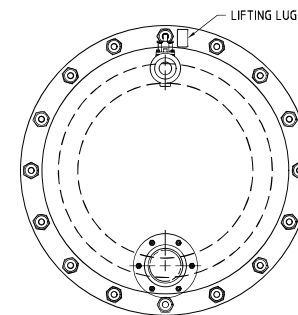
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M. Shaw
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Drawing Title

TRUNK WATER MAIN
STOP VALVE DETAILS

Drawn DF	Designed AL	Checked MAS	Date MAY' 26
Scale AS SHOWN			Sheet 09 of 10



SCALE  1 : 25 (A1 UNREDUCED)

Utilitywater Application No.	Utilitywater Drawing No.	Sheet No.	Drawing No.	Revision
-	WPP-WTG-C-DR-7229	A1	24-289- 108A	A