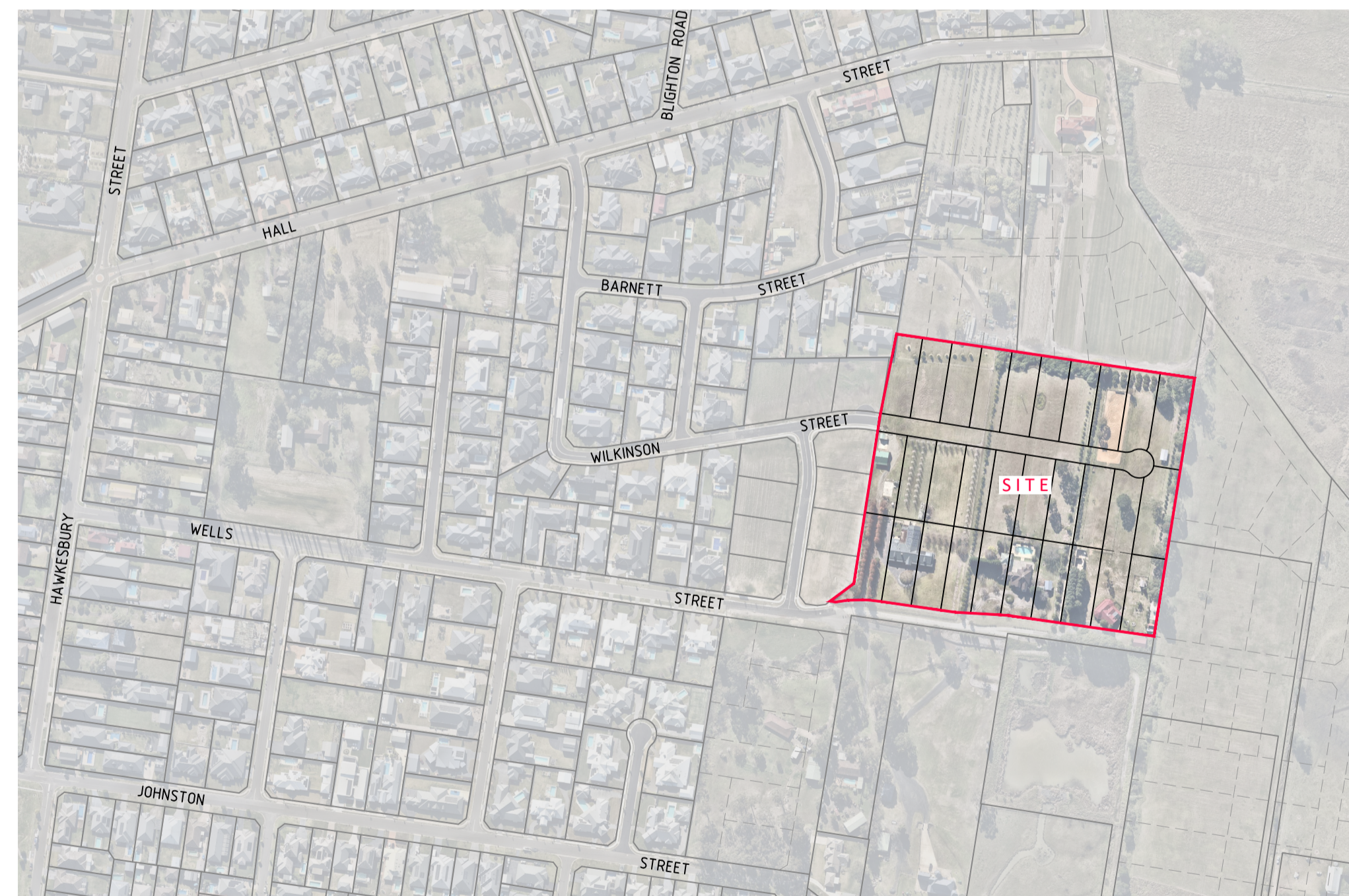


# 65, 67 & 69 WELLS STREET SUBDIVISION

## PITT TOWN

### STAGE 1

#### PRESSURE SEWER & RECYCLED WATER



LOCALITY PLAN  
(NOT TO SCALE)

| DRAWING LIST |                               |
|--------------|-------------------------------|
| SHEET 1      | COVER SHEET                   |
| SHEET 2      | GENERAL NOTES                 |
| SHEET 3      | PRESSURE SEWER DETAIL PLAN 1  |
| SHEET 4      | PRESSURE SEWER DETAIL PLAN 2  |
| SHEET 5      | COLLECTION TANK LEVEL DETAILS |
| SHEET 6      | RECYCLED WATER DETAIL PLAN 1  |
| SHEET 7      | RECYCLED WATER DETAIL PLAN 2  |

| No. | REVISION DESCRIPTION | BY   | DATE    |
|-----|----------------------|------|---------|
| 03  | WORK-AS-CONSTRUCTED  | K.G. | 2/7/25  |
| 02  | ISSUE FOR APPROVAL   | K.G. | 12/9/24 |
| 01  | CONCEPT DESIGN       | K.G. | 19/7/24 |

|         |      |      |   |   |                                      |  |   |                                   |
|---------|------|------|---|---|--------------------------------------|--|---|-----------------------------------|
| SERVICE | DATE | REF. | <b>WORK-AS-CONSTRUCTED CERTIFICATION</b><br>DEVELOPER: CASDG PROJECTS Pty. Ltd.<br>PROJECT SUPERVISOR: ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd.<br>CONSTRUCTOR: FLUID SERVICES Pty., Ltd.<br>COMPLETED: W.A.C. PREPARED: JULY 2025 | <b>ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.</b><br>WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT<br>SHOP 7 & 8 'M CENTRE'<br>40 STERLING ROAD, MINCHINBURY NSW 2770<br>PH: (02) 9853 0200 FAX: (02) 9671 7399 | CLIENT: CASDG PROJECTS Pty. Ltd.<br> | TITLE: PLAN OF PROPOSED WATER INFRASTRUCTURE SERVICES<br>65, 67 & 69 WELLS STREET SUBDIVISION - STAGE 1<br>WELLS STREET & WILKINSON STREET, PITT TOWN<br>L.G.A. HAWKESBURY | COVER SHEET<br>DRAWN: K.GAO<br>CHECKED: K.GAO<br>REVISIONS: D.SHEATHER<br>VERIFIED: D.SHEATHER<br>SCALE: -<br>DATA: -<br>B.A.S. REFERENCE: 67 L9<br>DATE OF ISSUE: 2/7/2025 | SHEET 1 OF 7<br>WAC<br>10/28062/1 |
|---------|------|------|---|---|--------------------------------------|--|---|-----------------------------------|

SEWER NOTES

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A., PRESSURE SEWERAGE CODE OF AUSTRALIA WSA 07-2007 VERSION 1.1 & POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS & ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW & SHALL COMPLY WITH ALTOGETHER GROUP REQUIREMENTS. *BUTT FUSION FITTINGS DENOTED HERE WITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON POLYETHYLENE PIPING SYSTEMS' PRODUCT RANGE.*
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS & LOCATIONS EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 07-2007 & ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A.
- ALL POLYETHYLENE MAINS <DN200 SHALL BE JOINED BY ELECTROFUSION TECHNIQUES IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS >DN200 SHALL BE JOINED BY BUTTWELD TECHNIQUES IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. *600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER & WATER MAINS.* MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS & FOR ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 15m. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 15m, BUT LESS THAN 25m, THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. *THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER & RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.*
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- MAINS WITHIN 2m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER GROUP REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 & WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTTWELD SWEEP BENDS. *FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.*
- MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN (ie. DN400:R8.0m, DN250:R5.0m, DN200: R4.0m, DN160:R3.2m, DN125:R2.5m, DN90:R1.8m, DN75:R1.5m, DN63:R1.3m, DN50: R1.0m, DN40: R0.8m*
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).*
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER GROUP STANDARD DRAWINGS. REFER TO WEBSITE FOR CURRENT VERSION.  
SMALL MAINS (< DN110)  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017A-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf)  
LARGE MAINS (> DN110)  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017B-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf)
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING & CONNECTED TO SURFACE VALVES.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ie ROADWAYS, PATHS etc) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 & SHALL COMPLY WITH ALTOGETHER GROUP STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 Version 1.1.
- FOR LOTS WITH TANKS IN THE REAR: 1 x 25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x 25mm ELECTRICAL CONDUIT (ORANGE) (WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm.*
- THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER GROUP WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED & CONFIRMATION IS PROVIDED BY THE ALTOGETHER GROUP REPRESENTATIVE.*
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER GROUP REPRESENTATIVE. *THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.*
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE:  
TRAFFICABLE:  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / CROSSING (NIL)  
NON-TRAFFICABLE:  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / 100m (6 Tests)
- BOUNDARY KITS (COMPLETE) SHALL BE ONE SUPPLIED. COLLECTION TANKS SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER GROUP STANDARD DRAWINGS PSS-1112-FS & PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER GROUP REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS & FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER GROUP REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER GROUP Q.A. SUBMISSION CHECKLIST.

RECYCLED WATER NOTES

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A. & WSA 03-2011-3.1 (SYDNEY WATER WATER EDITION - 2014).
- POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
- ALL EQUIPMENT, MATERIALS & ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM WITH THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS & SHALL COMPLY WITH ALTOGETHER GROUP REQUIREMENTS.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS & LOCATIONS EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SURVEYOR THE POSITION & LEVEL OF ALL EXISTING & PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
- MAINS TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. *600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER & WATER MAINS.* MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-VI) & FOR ROADWAYS (TYPE L EMBEDMENT: WAT-1204-VI). MAXIMUM PIPE COVER SHALL GENERALLY BE 15m. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 15m, BUT IS LESS THAN 25m, THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. *THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER & PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.*
- ALL RECYCLED WATER MAINS SHALL BE LILAC mPVC (PN16). DIFFERENTIATION OF POTABLE & RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATERMAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER & RECYCLED WATER MAINS SHALL BE PROVIDED.
- MAXIMUM JOINT DEFLECTION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION PS-350, 368 & 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER GROUP REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE & THE ROAD FOR TRENCH DRAINAGE/BULKHEADS.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- HYDRANTS, STOP VALVES & ALL OTHER FITTINGS SHALL BE THE SAME SIZE AS THROUGH WATER MAIN & ANTICLOCKWISE CLOSING.
- HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS & WATER SERVICES SHALL BE NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
- THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
- ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE ALTOGETHER GROUP REQUIREMENTS. REFER TO ALTOGETHER GROUP WEBSITE FOR CURRENT VERSIONS.  
SINGLE SERVICE  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1854-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf)  
DUAL SERVICE  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1855-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf)
- PROPERTY SERVICE CONNECTIONS SHALL BE FLUSHED & LOCKED (BY THE ALTOGETHER GROUP REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
- SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ie ROADWAYS, PATHS etc) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION - 2014).
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION - 2014; CLAUSE 19.7).
- THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER GROUP WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED & CONFIRMATION IS PROVIDED BY THE ALTOGETHER GROUP REPRESENTATIVE.*
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER GROUP REPRESENTATIVE. *THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.*
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA ARE:  
TRAFFICABLE:  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / CROSSING (NIL)  
NON-TRAFFICABLE:  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / 100m (6 Tests)  
*TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 & 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA*
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER GROUP REQUIREMENTS.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER GROUP REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER GROUP Q.A. SUBMISSION CHECKLIST.

ALTOGETHER GROUP STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:

<https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers->

GENERAL NOTES

- THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH THE HAWKESBURY CITY COUNCIL STANDARDS, ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A. & OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
- ALL PRESSURE SEWER LATERALS & RECYCLED WATER PROPERTY SERVICE CONNECTIONS CROSSING CARRIAGEWAYS SHALL BE INSTALLED WITHIN INDIVIDUAL SERVICE CONDUITS.
- THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS ON THE FOLLOWING DRAWINGS ARE INDICATIVE ONLY.
- MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENTS AND FOOTPATHS TO P.C.A. AND SUPERINTENDENTS REQUIREMENTS.
- SUITABLE PROTECTION OF EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

CLEARANCES BETWEEN PIPELINES & UNDERGROUND SERVICES

| Utility<br>(Existing or proposed service) | Minimum horizontal clearance<br>mm |                         | Minimum vertical clearance <sup>1</sup><br>mm |
|---|------------------------------------|-------------------------|---|
|   | New main size                      |                         |   |
|   | <DN200                             | >DN200                  |   |
| Water mains <sup>2</sup><br>> DN375       | 600                                | 600                     | 300   |
| Water mains <sup>4</sup><br>< DN375       | 300 <sup>4</sup>                   | 600                     | 150   |
| Gas mains                                 | 300 <sup>4</sup>                   | 600                     | 150   |
| Telecommunication<br>cables and cables    | 300 <sup>4</sup>                   | 600                     | 150   |
| Electricity conduits<br>and cables        | 500                                | 1000                    | 225 <sup>4</sup>                              |
| Stormwater drains                         | 300 <sup>4</sup>                   | 600                     | 150 <sup>4</sup>                              |
| Sewers - gravity                          | 1000 <sup>4</sup> / 600            | 1000 <sup>4</sup> / 600 | 500 <sup>4</sup>                              |
| Sewers - pressure<br>and vacuum           | 600                                | 600                     | 300 <sup>4</sup>                              |
| Kerbs                                     | 150                                | 600 <sup>5</sup>        | 150 (where possible)                          |

- NOTES:
- Vertical clearances apply where pipelines cross other utility services, except in the case of water/sewer mains when a vertical separation shall always be maintained, even when the pressure sewer and water main are parallel. The pressure sewer should always be located below the water main to minimise the possibility of backflow contamination in the event of a pressure main break.
  - Water mains includes mains supplying both potable and recycled water.
  - For areas with existing water reticulation, clearances can be further reduced to 600mm with the approval of the water authority.
  - Clearances can be further reduced to 150mm for distances up to 2m when passing installations such as poles, pits, and small structures, providing the structures is not destabilised in the process.
  - Clearances from kerbs shall be measured from the nearest point of the kerb. For water/sewer <DN375, clearances from kerbs can be progressively reduced until the minimum of 150mm is reached for water/sewer <DN200.
  - Where a parallel sewer is at minimum vertical clearance (lower than the water main (500mm), maintain a minimum horizontal of 1000mm. This minimum clearance can be progressively reduced to 600mm as the vertical clearance is increased to 750mm.
  - For pressure sewer laterals, minimum vertical clearances may be reduced to 150mm providing there is no joint in the lateral within 500mm of either side of the service being crossed.
  - An additional clearance from high voltage electrical installations should be maintained above the conduits or cables to allow for a protective barrier and marking to be provided.
  - Water mains should always cross over sewers and stormwater drains. For cases where this is not alterative and the main must cross under the sewer, the design shall nominate an appropriate protection treatment (joint-free in the vicinity of the sewer).



\* SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE ALTOGETHER GROUP REPRESENTATIVE IN WRITING.

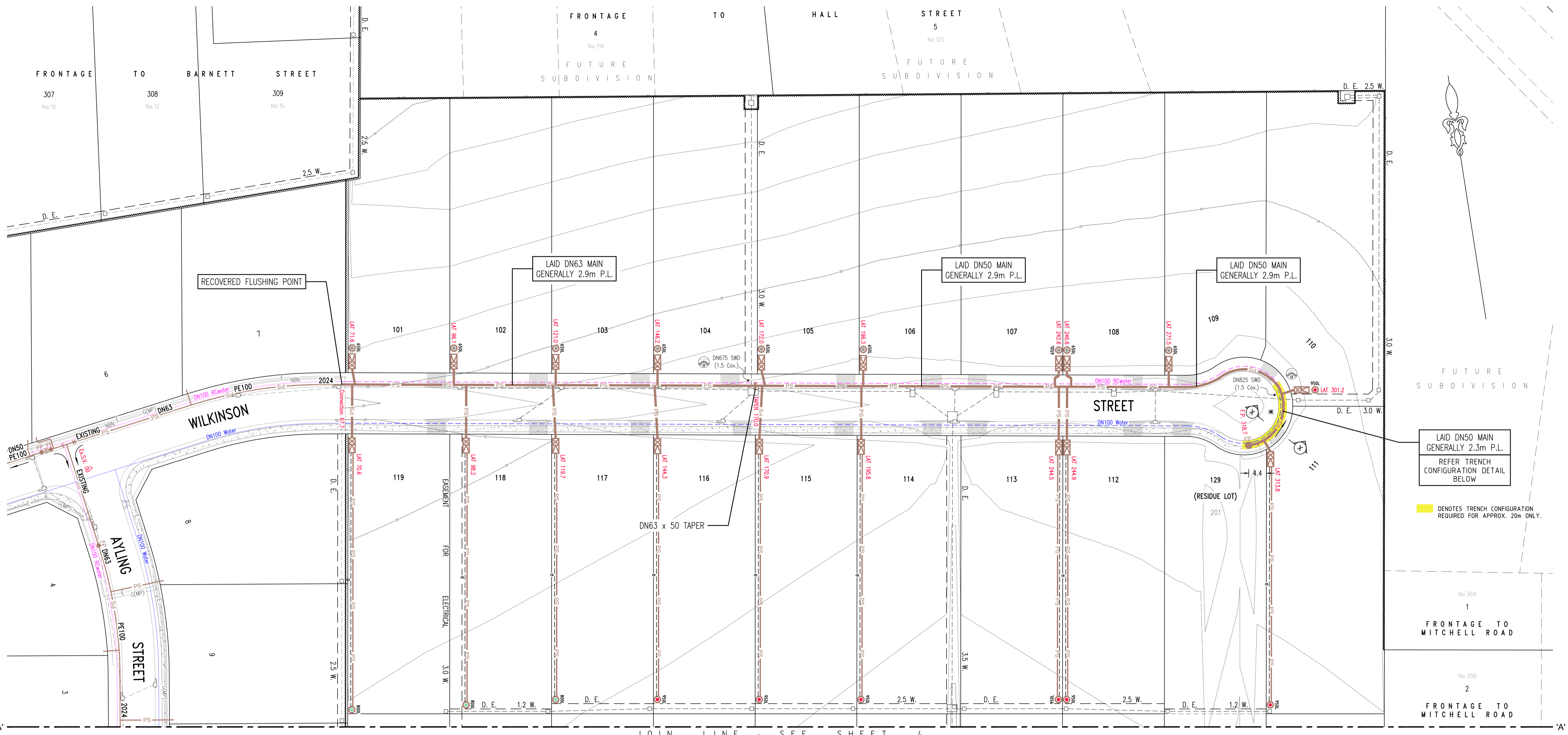
RECYCLED WATER PIPE SCHEDULE

| SIZE  | TYPE     | CLASS | LENGTH |
|-------|----------|-------|--------|
| DN150 | m.P.V.C. | PN16  | 271.0  |
| DN100 | m.P.V.C. | PN16  | 251.8  |
|       |          | TOTAL | 522.8  |

PRESSURE SEWER PIPE SCHEDULE

| SIZE | TYPE  | CLASS | LENGTH  |
|------|-------|-------|---------|
| DN63 | PE100 | PN16  | 373.8   |
| DN50 | PE100 | PN16  | 148.7   |
| DN40 | PE100 | PN16  | 779.9   |
|      |       | TOTAL | 1,302.4 |

|   |   |   |   |                            |  |              |  |              |  |
|---|---|---|---|----------------------------|--|--------------|--|--------------|--|
| ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.   |   |  |   | GENERAL NOTES              |  | SHEET 2 OF 7 |  | VERSION: WAC |  |
|  | WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT<br>SHOP 7 & 8 'M CENTRE'<br>40 STERLING ROAD, MINCHINBURY NSW 2770<br>PH: (02) 9853 0200 FAX: (02) 9671 7399 | DRAFTED: K.GAO<br>SCALE: -  | REVISIONS:<br>REVISION NO. DATE<br>1 67 L9 2/7/2025 | DESIGNED: K.GAO<br>DATE: - | CHECKED: D.SHEATHER<br>DATE OF ISSUE: 2/7/2025 | 10/28062/1   |  |              |  |



LAI D.N50 MAIN  
GENERALLY 2.3m P.L.  
REFER TRENCH  
CONFIGURATION  
DETAIL BELOW

■ DENOTES TRENCH CONFIGURATION  
REQUIRED FOR APPROX. 20m ONLY.

No.30A  
1  
FRONTAGE TO  
MITCHELL ROAD

No.30B  
2  
FRONTAGE TO  
MITCHELL ROAD

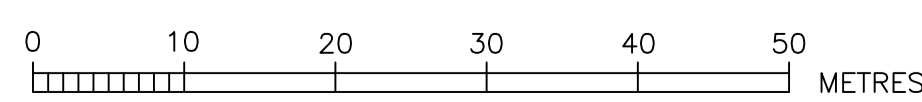
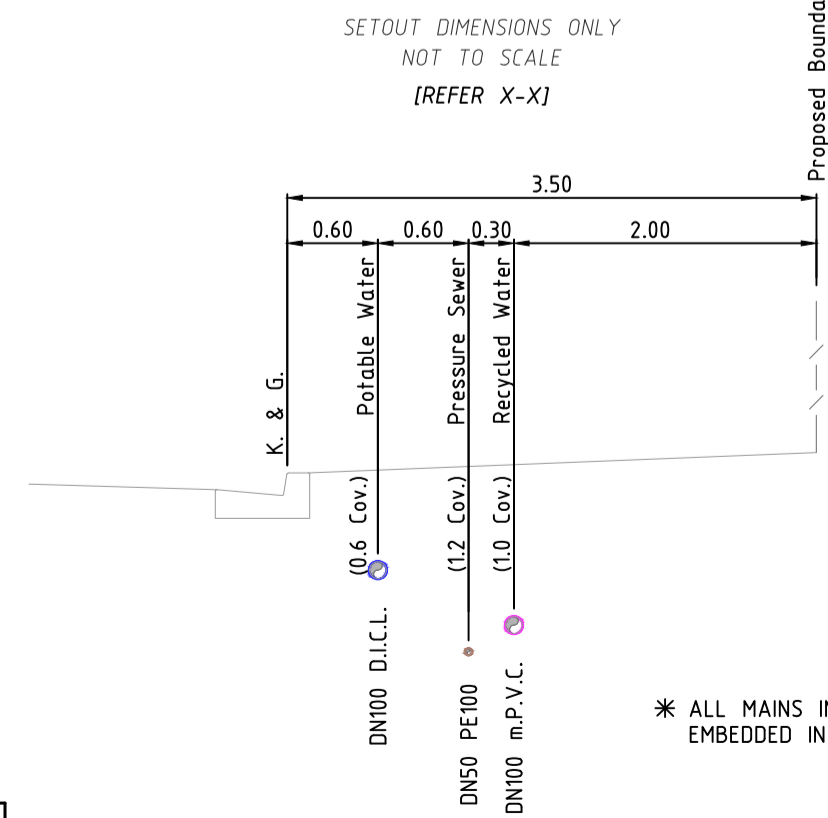
JOIN LINE - SEE SHEET 4

**PRESSURE SEWER LEGEND**

|      |                                      |
|------|--------------------------------------|
| ✕    | STOP VALVE                           |
| ⊗    | STOP VALVE (NORMALLY CLOSED)         |
| — —  | TAPER                                |
| ●    | FLUSHING POINT                       |
| ○    | TEMPORARY FLUSHING POINT             |
| ⊠    | PROPERTY BOUNDARY KIT                |
| 650L | COLLECTION TANK (eONE 650L)          |
| 800L | COLLECTION TANK (eONE 800L)          |
| 950L | COLLECTION TANK (eONE 950L)          |
| ⊠    | CONTROL/ALARM PANEL                  |
| —e—  | ELECTRICAL CABLES                    |
| ▶    | FLOW METER                           |
| ▲    | AIR VALVE                            |
| PP   | PRESSURE MONITORING POINT            |
| ⊙    | REMOTE MONITORED PRESSURE TRANSDUCER |
| ⌒    | VERTICAL DEFLECTION                  |

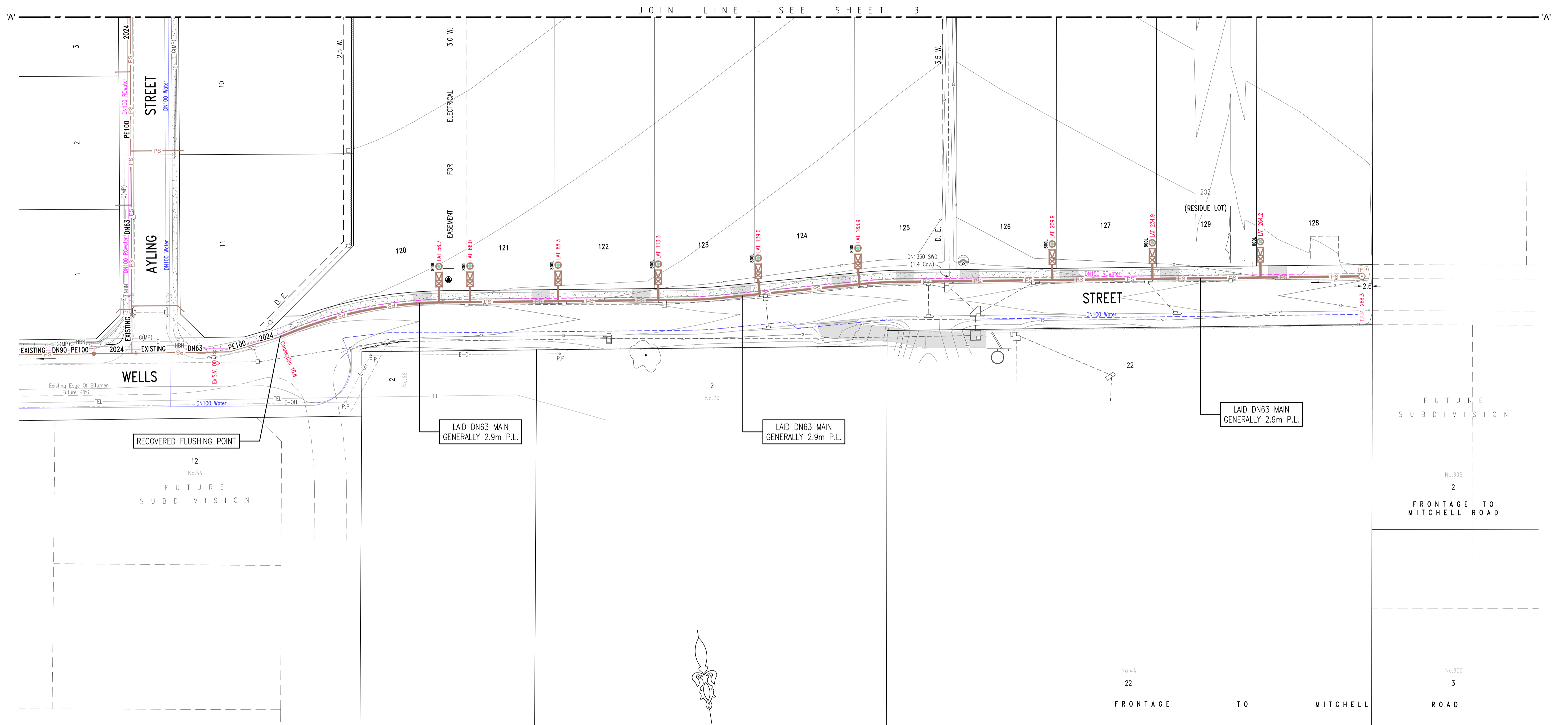
⊙ DENOTES LAY MAIN UNDER SERVICE  
⊙ DENOTES LAY MAIN OVER SERVICE

**TRENCH CONFIGURATION  
DETAIL FOR THREE WATER SERVICES**



**ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.**  
 WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT  
**RAR**  
 SHOP 7 & 8 'M CENTRE'  
 40 STERLING ROAD, MINCHBURY NSW 2770  
 PH: (02) 9853 0200 FAX: (02) 9671 7399

| PRESSURE SEWER DETAIL PLAN 1 |          |               |             | SHEET 3 OF 7 | WAC   |
|------------------------------|----------|---------------|-------------|--------------|-------|
| DESIGNED BY                  | DRAWN BY | CHECKED BY    | APPROVED BY | DATE         | SCALE |
| K.GAO                        | K.GAO    | D.SHEATHER    | D.SHEATHER  | 67 L9        | 1:500 |
| DATE                         |          | DATE OF ISSUE |             | JOB No.      |       |
| A.H.D.                       |          | 2/7/2025      |             | 10/28062/1   |       |

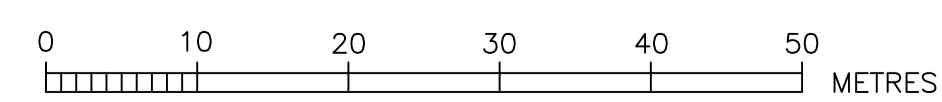


**PRESSURE SEWER LEGEND**

|  |                                      |
|--|--------------------------------------|
|  | STOP VALVE                           |
|  | STOP VALVE (NORMALLY CLOSED)         |
|  | TAPER                                |
|  | FLUSHING POINT                       |
|  | TEMPORARY FLUSHING POINT             |
|  | PROPERTY BOUNDARY KIT                |
|  | COLLECTION TANK (eONE 650L)          |
|  | COLLECTION TANK (eONE 800L)          |
|  | COLLECTION TANK (eONE 950L)          |
|  | CONTROL/ALARM PANEL                  |
|  | ELECTRICAL CABLES                    |
|  | FLOW METER                           |
|  | AIR VALVE                            |
|  | PRESSURE MONITORING POINT            |
|  | REMOTE MONITORED PRESSURE TRANSDUCER |
|  | VERTICAL DEFLECTION                  |

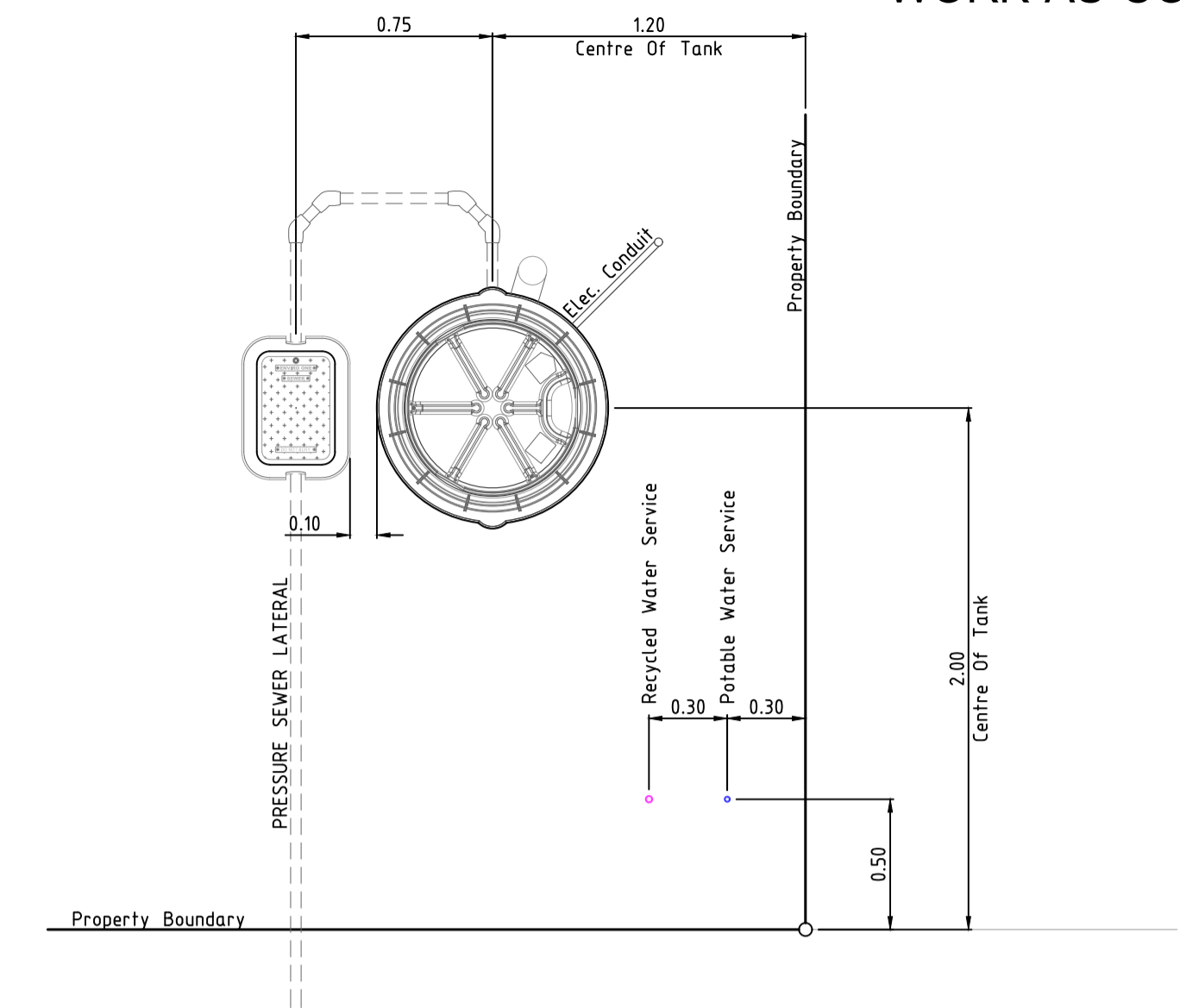
|  |                                |
|--|--------------------------------|
|  | DENOTES LAY MAIN UNDER SERVICE |
|  | DENOTES LAY MAIN OVER SERVICE  |

⦿ DENOTES EASEMENT FOR PADMOUNT SUBSTATION 2.75 W.



**ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.**  
 WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT  
  
 SHOP 7 & 8 'M CENTRE'  
 40 STERLING ROAD, MINCHBURY NSW 2770  
 PH: (02) 9853 0200 FAX: (02) 9671 7399

|                                     |                 |                         |                         |                    |             |
|-------------------------------------|-----------------|-------------------------|-------------------------|--------------------|-------------|
| <b>PRESSURE SEWER DETAIL PLAN 2</b> |                 |                         |                         | SHEET 4 OF 7       | VISION: WAC |
| DRAWN: K.GAO                        | DESIGNED: K.GAO | REVIEWED: D.SHEATHER    | VERIFIED: D.SHEATHER    | JOB No. 10/28062/1 |             |
| SCALE: 1:500                        | DATUM: A.H.D.   | W.A.S. REFERENCE: 67 L9 | DATE OF ISSUE: 2/7/2025 |                    |             |



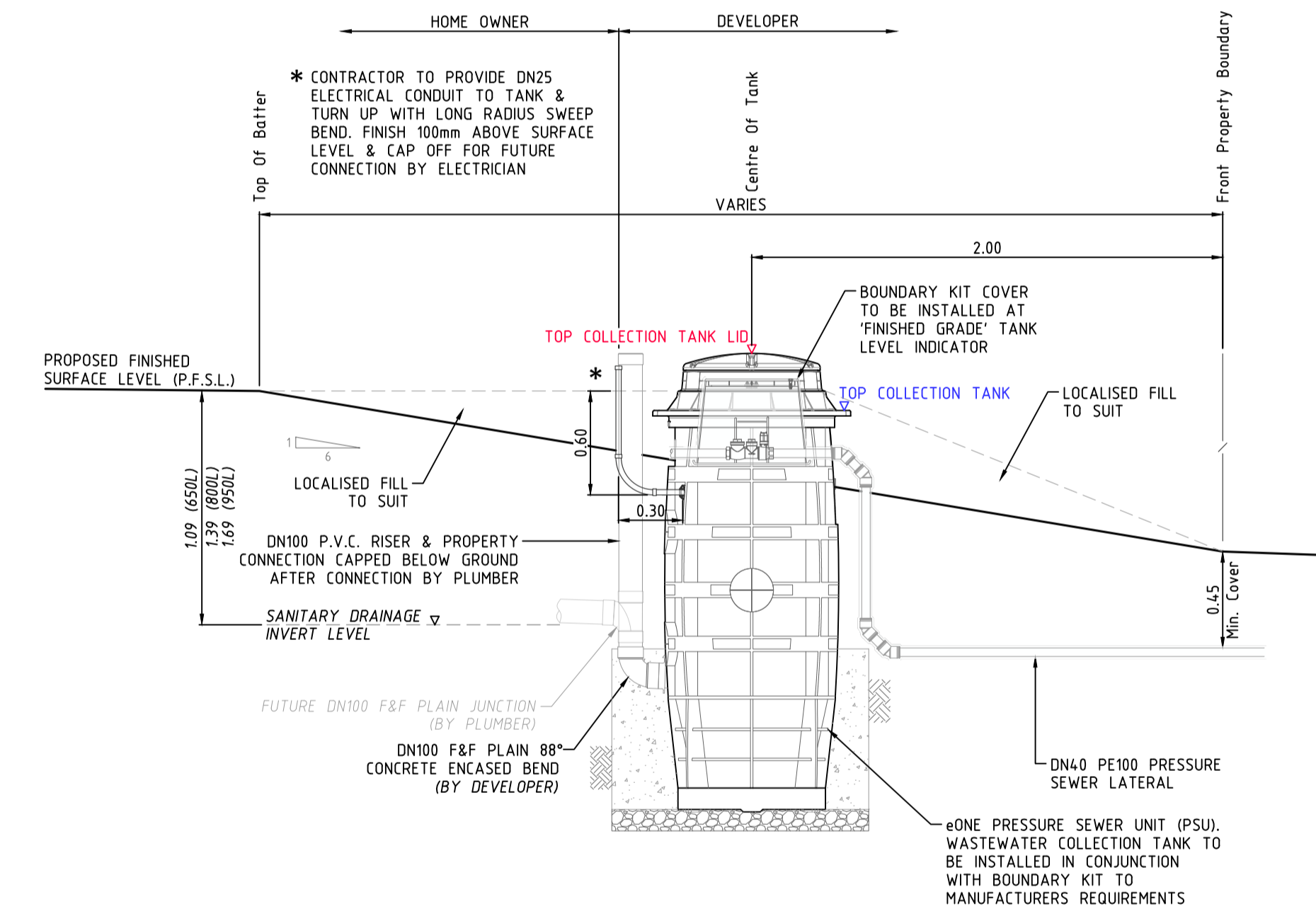
TYPICAL INFRASTRUCTURE SETOUT DIMENSIONS

SCALE 1:25

**PRESSURE SEWER COLLECTION TANK LEVEL DETAILS**  
**65, 67 & 69 WELLS STREET, PITT TOWN SUBDIVISION [STAGE 1]**

| LOT NUMBER | COLLECTION TANK LOCATION<br>[FRONT / REAR] | TANK SIZE<br>[650L / 800L / 950L] | PFS LAT TANK LOCATION | TOP OF COLLECTION TANK<br>[Design R.L.] | DESIGN SANITARY DRAINAGE INVERT LEVEL<br>[Design R.L.] | TOP OF COLLECTION TANK LID *<br>[Work-As-Constructed] | CALCULATED SANITARY DRAINAGE INVERT LEVEL<br>[Work-As-Constructed] | WAC v's DESIGN INVERT LEVEL COMPARISON<br>[- LOWER / + HIGHER] |
|------------|--|-----------------------------------|-----------------------|---|--|---|--|--|
| 101        | FRONT FLAT                                 | 650L                              | 23.17                 | 23.13                                   | 22.13  | 23.28   | 22.01  | -0.12  |
| 102        | FRONT FLAT                                 | 650L                              | 23.05                 | 23.01                                   | 22.01  | 23.16   | 21.89  | -0.12  |
| 103        | FRONT FLAT                                 | 650L                              | 22.93                 | 22.89                                   | 21.89  | 23.05   | 21.78  | -0.11  |
| 104        | FRONT FLAT                                 | 650L                              | 22.80                 | 22.76                                   | 21.76  | 22.91   | 21.64  | -0.12  |
| 105        | FRONT FLAT                                 | 650L                              | 22.68                 | 22.64                                   | 21.64  | 22.80   | 21.53  | -0.11  |
| 106        | FRONT FLAT                                 | 650L                              | 22.55                 | 22.51                                   | 21.51  | 22.65   | 21.38  | -0.13  |
| 107        | FRONT FLAT                                 | 650L                              | 22.60                 | 22.56                                   | 21.56  | 22.70   | 21.43  | -0.13  |
| 108        | FRONT FLAT                                 | 650L                              | 22.60                 | 22.56                                   | 21.56  | 22.72   | 21.45  | -0.11  |
| 109        | FRONT FLAT                                 | 650L                              | 22.57                 | 22.53                                   | 21.53  | 22.71   | 21.44  | -0.09  |
| 110        | FRONT FLAT                                 | 950L                              | 22.58                 | 22.54                                   | 20.94  | 22.71   | 20.84  | -0.10  |
| 111        | REAR                                       | 950L                              | 22.53                 | 22.49                                   | 20.89  | 22.65   | 20.78  | -0.11  |
| 112        | REAR                                       | 950L                              | 22.38                 | 22.34                                   | 20.74  | 22.51   | 20.64  | -0.10  |
| 113        | REAR                                       | 950L                              | 22.37                 | 22.33                                   | 20.73  | 22.53   | 20.66  | -0.07  |
| 114        | REAR                                       | 950L                              | 22.37                 | 22.33                                   | 20.73  | 22.47   | 20.60  | -0.13  |
| 115        | REAR                                       | 950L                              | 22.47                 | 22.43                                   | 20.83  | 22.61   | 20.74  | -0.09  |
| 116        | REAR                                       | 950L                              | 22.56                 | 22.52                                   | 20.92  | 22.69   | 20.82  | -0.10  |
| 117        | REAR                                       | 800L                              | 22.64                 | 22.60                                   | 21.30  | 22.79   | 21.22  | -0.08  |
| 118        | REAR                                       | 800L                              | 22.70                 | 22.66                                   | 21.36  | 22.85   | 21.28  | -0.08  |
| 119        | REAR                                       | 800L                              | 22.79                 | 22.75                                   | 21.45  | 22.91   | 21.34  | -0.11  |
| 120        | FRONT FLAT                                 | 800L                              | 22.37                 | 22.33                                   | 21.03  | 22.48   | 20.91  | -0.12  |
| 121        | FRONT FLAT                                 | 800L                              | 22.34                 | 22.30                                   | 21.00  | 22.46   | 20.89  | -0.11  |
| 122        | FRONT FLAT                                 | 800L                              | 22.27                 | 22.23                                   | 20.93  | 22.38   | 20.81  | -0.12  |
| 123        | FRONT FLAT                                 | 800L                              | 22.19                 | 22.15                                   | 20.85  | 22.33   | 20.76  | -0.09  |
| 124        | FRONT FLAT                                 | 800L                              | 22.07                 | 22.03                                   | 20.73  | 22.19   | 20.62  | -0.11  |
| 125        | FRONT FLAT                                 | 800L                              | 21.95                 | 21.91                                   | 20.61  | 22.06   | 20.49  | -0.12  |
| 126        | FRONT FLAT                                 | 800L                              | 21.97                 | 21.93                                   | 20.63  | 22.11   | 20.54  | -0.09  |
| 127        | FRONT FLAT                                 | 800L                              | 22.08                 | 22.04                                   | 20.74  | 22.21   | 20.64  | -0.10  |
| 128        | FRONT FLAT                                 | 800L                              | 22.16                 | 22.12                                   | 20.82  | 22.30   | 20.73  | -0.09  |
| 129        |  |                                   |                       |   |  |   |  |  |

\* COLLECTION TANK LEVEL PROVIDED TO G.P.S. ACCURACY ONLY. THE BUILDER IS REQUIRED TO CONFIRM DRAINAGE CONSTRAINTS PRIOR TO MAKING CONNECTION TO TANK.



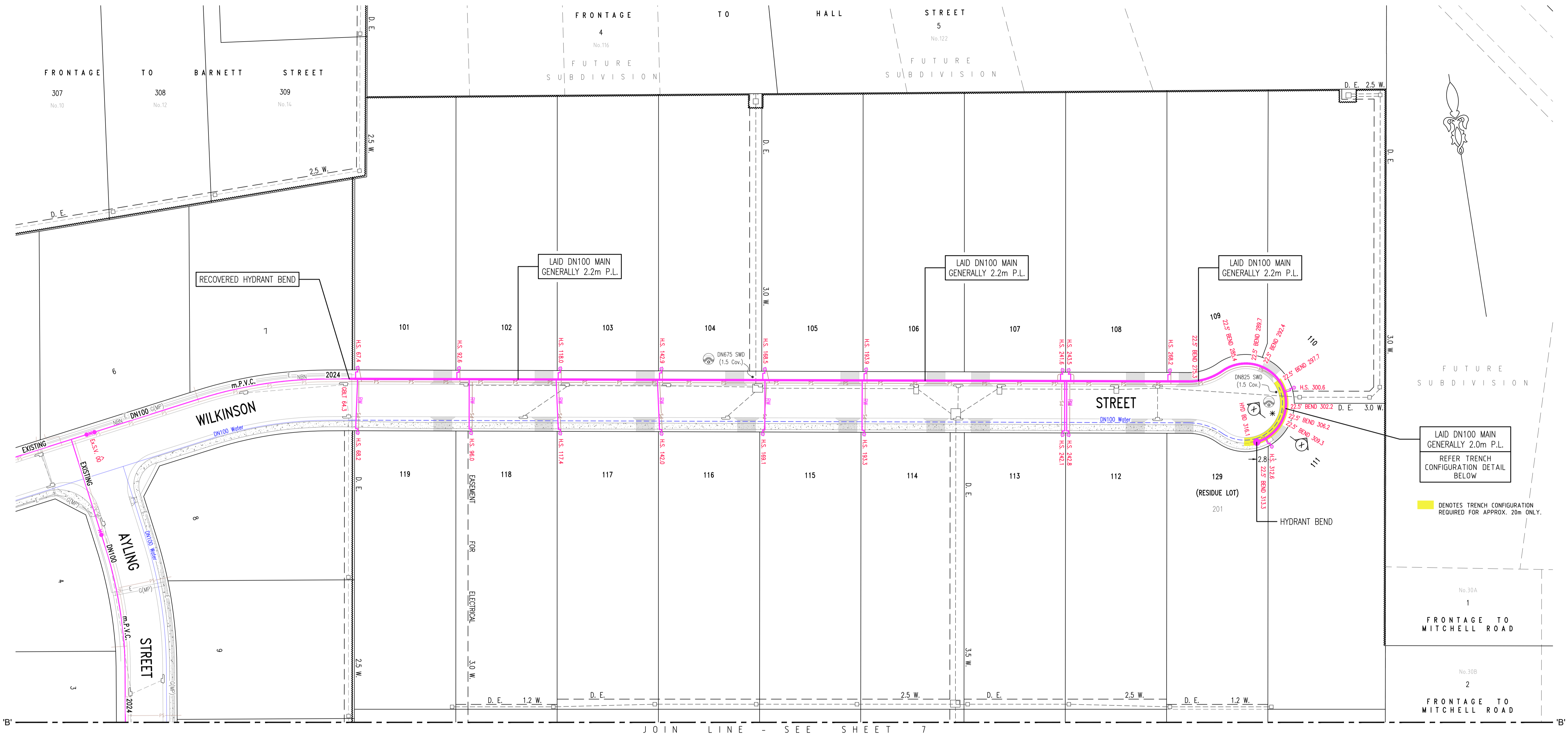
COLLECTION TANK SECTIONAL ELEVATION

SCALE 1:25

COLLECTION TANK NOTES

- DESIGN SURFACE LEVELS WERE ELECTRONICALLY EXTRACTED FROM DIGITAL DATA SUPPLIED BY THE ORION GROUP DATED 23/8/24 (22-0253-04-SWC\_DTM & SW\_240823.dwg).
- DESIGN LEVELS CAN ONLY BE ASSUMED AS CURRENT AT TIME OF EXTRACTION. ALL LEVELS SHALL BE CONFIRMED WITH THE SITE SUPERINTENDENT PRIOR TO INSTALLATION OF TANKS. SHOULD THE PROPOSED FINISHED SURFACE LEVEL (P.F.S.L.) DIFFER FROM DESIGN BY MORE THAN 100mm, THE CONSTRUCTOR SHALL CONTACT THE DESIGNER IMMEDIATELY.
- COLLECTION TANK SETOUT SHALL BE COMPLIANT WITH FSI-1000-FS & FSI-SK03A-FS. COLLECTION TANK INSTALLATION LEVELS DOCUMENTED ADJACENT SHALL SUPERSEDE ANY LEVELS ADVISED ON DRAWING FSI-SK03A-FS.
- R.A.R. ACCEPT NO RESPONSIBILITY FOR INCONSISTENCIES IN EXTRACTED LEVELS RESULTING FROM CHANGES TO THE MODEL (SURFACE LEVEL) INFORMATION POST DATA EXTRACTION DATE.

|   |  |                                      |                 |                     |                      |                          |            |
|---|--|--------------------------------------|-----------------|---------------------|----------------------|--------------------------|------------|
| <b>ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.</b><br>WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT<br>SHOP 7 & 8 'M CENTRE'<br>40 STERLING ROAD, MINCHINBURY NSW 2770<br>PH: (02) 9853 0200 FAX: (02) 9671 7399 |  | <b>COLLECTION TANK LEVEL DETAILS</b> |                 |                     |                      | SHEET 5 OF 7             | WAC        |
|   |  | DRAWN: K.GAO                         | DESIGNED: K.GAO | REVISED: D.SHEATHER | VERIFIED: D.SHEATHER | DATE OF ISSUE: 27/2/2025 | 10/28062/1 |



FUTURE SUBDIVISION

LAI D N100 MAIN  
GENERALLY 2.0m P.L.  
REFER TRENCH  
CONFIGURATION DETAIL  
BELOW

DENOTES TRENCH CONFIGURATION REQUIRED FOR APPROX. 20m ONLY.

No.30A  
1  
FRONTAGE TO  
MITCHELL ROAD

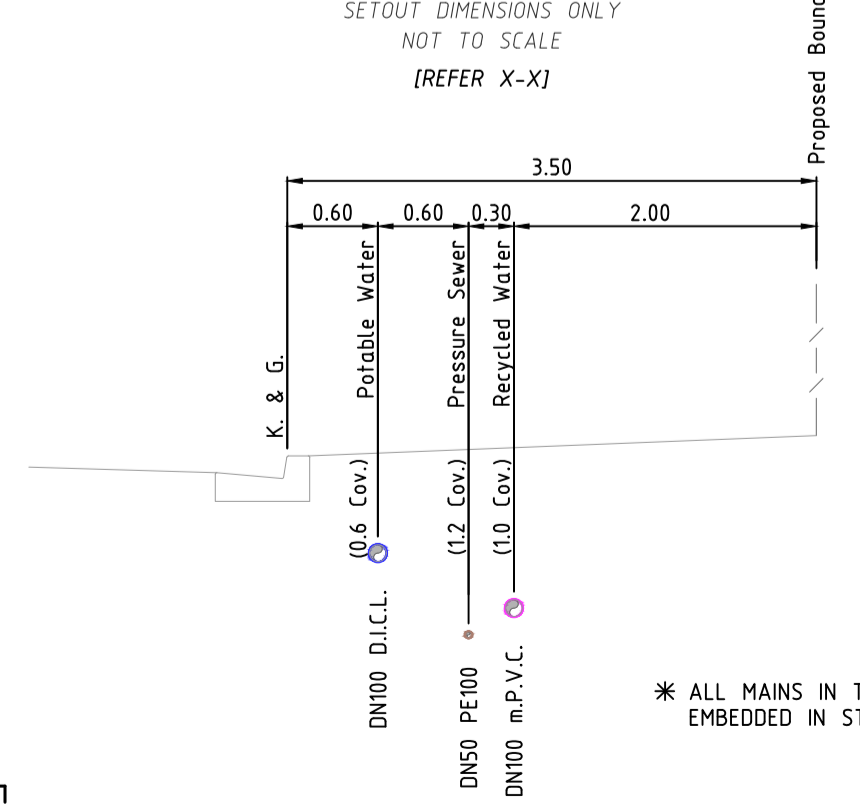
No.30B  
2  
FRONTAGE TO  
MITCHELL ROAD

RECYCLED WATER LEGEND

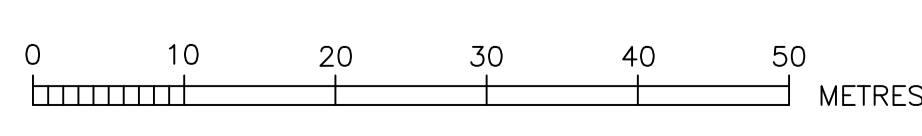
|  |                                      |
|--|--------------------------------------|
|  | PROPOSED MAIN                        |
|  | EXISTING MAIN                        |
|  | FUTURE MAIN                          |
|  | STOP VALVE                           |
|  | STOP VALVE (BYPASS)                  |
|  | HYDRANT                              |
|  | CONTROL VALVE (HYDRANT)              |
|  | TAPER                                |
|  | WATER SERVICE CONNECTION             |
|  | FLOW METER                           |
|  | AIR VALVE                            |
|  | VERTICAL DEFLECTION                  |
|  | REMOTE MONITORED PRESSURE TRANSDUCER |

DENOTES LAY MAIN UNDER SERVICE  
 DENOTES LAY MAIN OVER SERVICE

TRENCH CONFIGURATION DETAIL FOR THREE WATER SERVICES

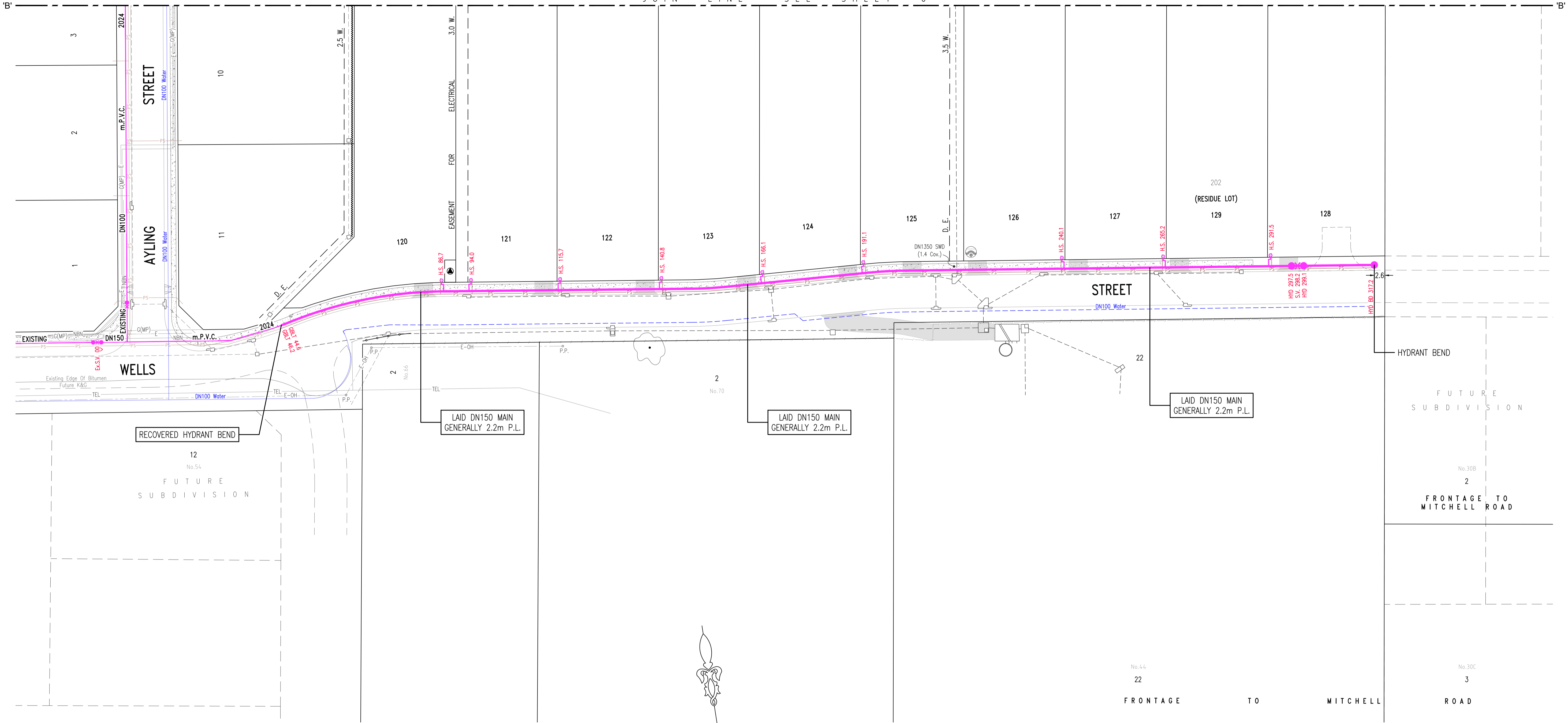


\* ALL MAINS IN THIS AREA WERE EMBEDDED IN STABILISED SAND.



ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.  
**RAR** WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT  
 SHOP 7 & 8 'M CENTRE'  
 40 STERLING ROAD, MINCHBURY NSW 2770  
 PH: (02) 9853 0200 FAX: (02) 9671 7399

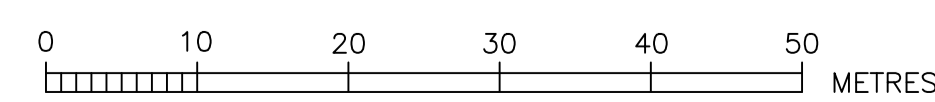
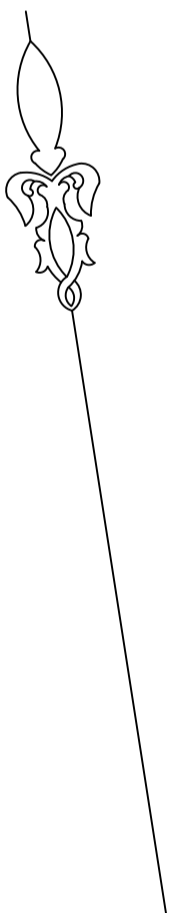
| RECYCLED WATER DETAIL PLAN 1 |              |                         |                         | SHEET 6 OF 7       | VERSION: WAC |
|------------------------------|--------------|-------------------------|-------------------------|--------------------|--------------|
| DESIGNED: K.GAO              | DRAWN: K.GAO | REVIEWED: D.SHEATHER    | VERIFIED: D.SHEATHER    | JOB No. 10/28062/1 |              |
| SCALE: 1:500                 | DATE: -      | W.A.S. REFERENCE: 67 L9 | DATE OF ISSUE: 2/7/2025 |                    |              |



RECYCLED WATER LEGEND

|  |                                      |
|--|--------------------------------------|
|  | PROPOSED MAIN                        |
|  | EXISTING MAIN                        |
|  | FUTURE MAIN                          |
|  | STOP VALVE                           |
|  | STOP VALVE (BYPASS)                  |
|  | HYDRANT                              |
|  | CONTROL VALVE (HYDRANT)              |
|  | TAPER                                |
|  | WATER SERVICE CONNECTION             |
|  | FLOW METER                           |
|  | AIR VALVE                            |
|  | VERTICAL DEFLECTION                  |
|  | REMOTE MONITORED PRESSURE TRANSDUCER |

|  |                                |
|--|--------------------------------|
|  | DENOTES LAY MAIN UNDER SERVICE |
|  | DENOTES LAY MAIN OVER SERVICE  |



ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.  
**RAR** WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT  
 SHOP 7 & 8 'M CENTRE'  
 40 STERLING ROAD, MINCHINBURY NSW 2770  
 PH: (02) 9853 0200 FAX: (02) 9671 7399



| RECYCLED WATER DETAIL PLAN 2 |          |                 |               |
|------------------------------|----------|-----------------|---------------|
| DRAWN                        | DESIGNED | REVIEWED        | VERIFIED      |
| K.GAO                        | K.GAO    | D.SHEATHER      | D.SHEATHER    |
| SCALE                        | DATE     | SCALE REFERENCE | DATE OF ISSUE |
| 1:500                        | -        | 67 L9           | 2/7/2025      |

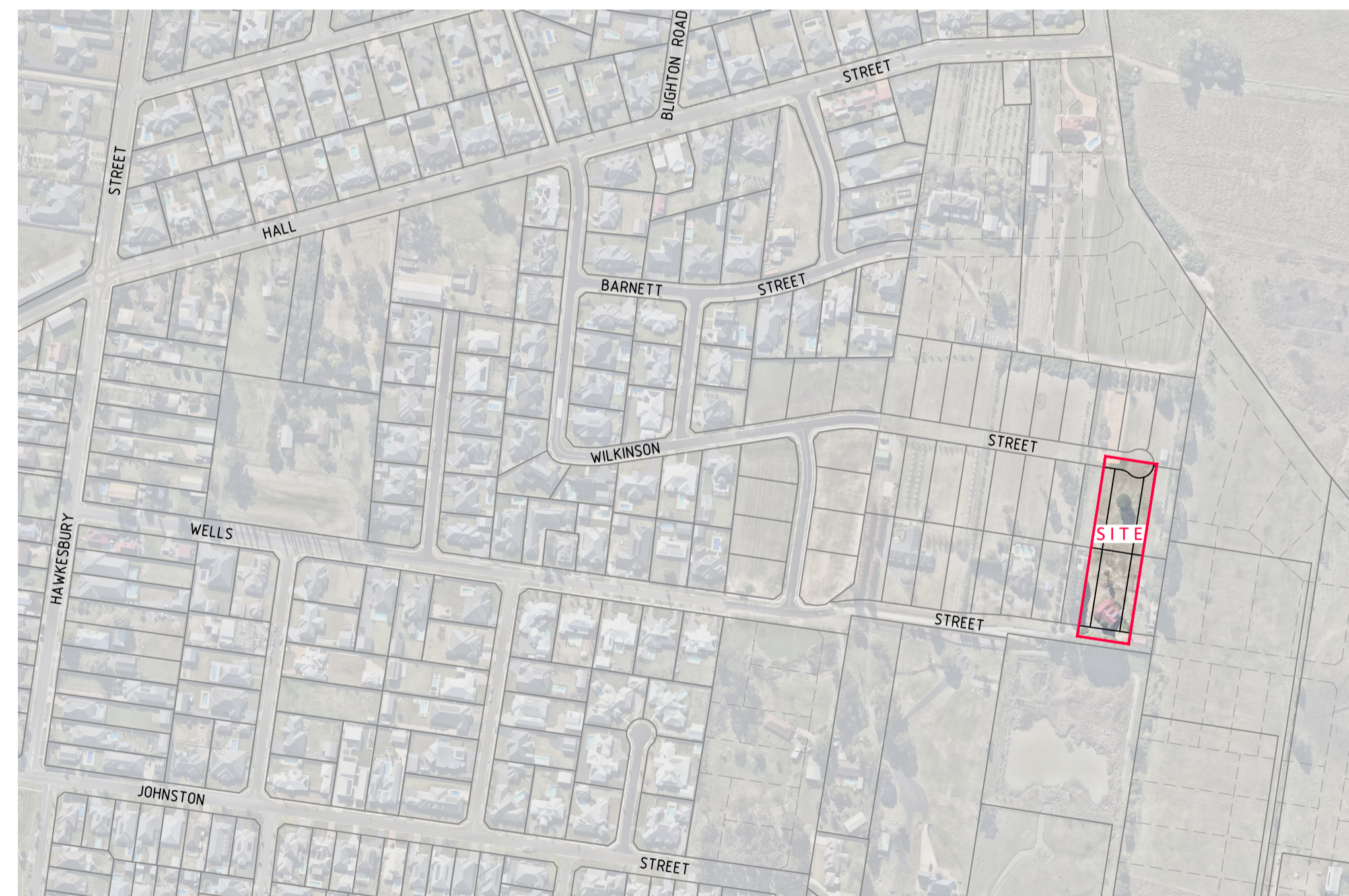
|              |            |
|--------------|------------|
| SHEET 7 OF 7 | VERSION    |
|              | WAC        |
| JOB No.      | 10/28062/1 |

# 65, 67 & 69 WELLS STREET SUBDIVISION

## PITT TOWN

### STAGE 2

#### PRESSURE SEWER & RECYCLED WATER



LOCALITY PLAN  
(NOT TO SCALE)

| DRAWING LIST |                               |
|--------------|-------------------------------|
| SHEET 1      | COVER SHEET                   |
| SHEET 2      | GENERAL NOTES                 |
| SHEET 3      | PRESSURE SEWER DETAIL PLAN    |
| SHEET 4      | COLLECTION TANK LEVEL DETAILS |
| SHEET 5      | RECYCLED WATER DETAIL PLAN    |

| No. | REVISION DESCRIPTION | BY   | DATE    |
|-----|----------------------|------|---------|
| 03  | WORK-AS-CONSTRUCTED  | K.G. | 2/7/25  |
| 02  | ISSUE FOR APPROVAL   | K.G. | 12/9/24 |
| 01  | CONCEPT DESIGN       | K.G. | 19/7/24 |

|                     |      |      |   |   |  |                             |                            |  |   |
|---------------------|------|------|---|---|--|-----------------------------|----------------------------|--|---|
| SERVICE             | DATE | REF. | WORK-AS-CONSTRUCTED CERTIFICATION             | ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.<br><b>RAR</b> WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT<br>SHOP 7 & 8 'M CENTRE'<br>40 STERLING ROAD, MINCHINBURY NSW 2770<br>PH: (02) 9853 0200 FAX: (02) 9671 7399 | CLIENT: CASDG PROJECTS Pty. Ltd.<br>TITLE: PLAN OF PROPOSED WATER INFRASTRUCTURE SERVICES<br>65, 67 & 69 WELLS STREET SUBDIVISION - STAGE 2<br>WELLS STREET & WILKINSON STREET, PITT TOWN<br>L.G.A. HAWKESBURY | COVER SHEET<br>SHEET 1 OF 5 |                            | VERSION: WAC<br>JOB No. 10/28062/2             |   |
| DEVELOPER:          |      |      | CASDG PROJECTS Pty. Ltd.                      |   |  | DRAWN: K.GAO<br>SCALE: -    | DESIGNED: K.GAO<br>DATA: - | REVIEWED: D.SHEATHER<br>VALID REFERENCE: 67 L9 | VERIFIED: D.SHEATHER<br>DATE OF ISSUE: 2/7/2025 |
| PROJECT SUPERVISOR: |      |      | ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd. |   |  |                             |                            |  |   |
| CONSTRUCTOR:        |      |      | FLUID SERVICES Pty., Ltd.                     |   |  |                             |                            |  |   |
| COMPLETED:          |      |      | W.A.C. PREPARED: JULY 2025                    |   |  |                             |                            |  |   |

SEWER NOTES

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A., PRESSURE SEWERAGE CODE OF AUSTRALIA WSA 07-2007 VERSION 1.1 & POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS & ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW & SHALL COMPLY WITH ALTOGETHER GROUP REQUIREMENTS. *BUTT FUSION FITTINGS DENOTED HERE WITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON POLYETHYLENE PIPING SYSTEMS' PRODUCT RANGE.*
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS & LOCATIONS EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 07-2007 & ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A.
- ALL POLYETHYLENE MAINS <DN200 SHALL BE JOINED BY ELECTROFUSION TECHNIQUES IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS >DN200 SHALL BE JOINED BY BUTTWELD TECHNIQUES IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. *600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER & WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS & FOR ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 15m. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 15m, BUT LESS THAN 25m, THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER & RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.*
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- MAINS WITHIN 2m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER GROUP REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 & WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTTWELD SWEEP BENDS. *FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.*
- MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN (ie. DN400:R8.0m, DN250:R5.0m, DN200: R4.0m, DN160:R3.2m, DN125:R2.5m, DN90:R1.8m, DN75:R1.5m, DN63:R1.3m, DN50: R1.0m, DN40: R0.8m*
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).*
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER GROUP STANDARD DRAWINGS. REFER TO WEBSITE FOR CURRENT VERSION.  
SMALL MAINS (<DN110)  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017A-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf)  
LARGE MAINS (>DN110)  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017B-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf)
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING & CONNECTED TO SURFACE VALVES.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ie ROADWAYS, PATHS etc) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 & SHALL COMPLY WITH ALTOGETHER GROUP STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 Version 1.1.
- FOR LOTS WITH TANKS IN THE REAR: 1 x 25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x 25mm ELECTRICAL CONDUIT (ORANGE) (WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm.*
- THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER GROUP WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED & CONFIRMATION IS PROVIDED BY THE ALTOGETHER GROUP REPRESENTATIVE.*
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER GROUP REPRESENTATIVE. *THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CO-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.*
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE:  
**TRAFFICABLE:**  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / CROSSING (2 Tests)  
**NON-TRAFFICABLE:**  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / 100m (4 Tests)
- BOUNDARY KITS (COMPLETE) SHALL BE ONE SUPPLIED. COLLECTION TANKS SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER GROUP STANDARD DRAWINGS PSS-1112-FS & PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.*
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER GROUP REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS & FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER GROUP REQUIREMENTS.
- WORK-AS-CO-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER GROUP Q.A. SUBMISSION CHECKLIST.*

RECYCLED WATER NOTES

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A. & WSA 03-2011-3.1 (SYDNEY WATER WATER EDITION - 2014).
- POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
- ALL EQUIPMENT, MATERIALS & ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM WITH THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS & SHALL COMPLY WITH ALTOGETHER GROUP REQUIREMENTS.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS & LOCATIONS EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SURVEYOR THE POSITION & LEVEL OF ALL EXISTING & PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
- MAINS TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. *600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER & WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V1) & FOR ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V1). MAXIMUM PIPE COVER SHALL GENERALLY BE 15m. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 15m, BUT IS LESS THAN 25m, THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER & PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.*
- ALL RECYCLED WATER MAINS SHALL BE LILAC mPVC (PN16). DIFFERENTIATION OF POTABLE & RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATERMAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER & RECYCLED WATER MAINS SHALL BE PROVIDED.
- MAXIMUM JOINT DEFLECTION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION PS-350, 368 & 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER GROUP REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE & THE ROAD FOR TRENCH DRAINAGE/BULKHEADS.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- HYDRANTS, STOP VALVES & ALL OTHER FITTINGS SHALL BE THE SAME SIZE AS THROUGH WATER MAIN & ANTICLOCKWISE CLOSING.
- HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS & WATER SERVICES SHALL BE NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
- THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
- ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE ALTOGETHER GROUP REQUIREMENTS. REFER TO ALTOGETHER GROUP WEBSITE FOR CURRENT VERSIONS.  
SINGLE SERVICE  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1854-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf)  
DUAL SERVICE  
[https://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1855-FS.pdf](https://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf)
- PROPERTY SERVICE CONNECTIONS SHALL BE FLUSHED & LOCKED (BY THE ALTOGETHER GROUP REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
- SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ie ROADWAYS, PATHS etc) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION - 2014).
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION - 2014; CLAUSE 19.7).
- THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER GROUP WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED & CONFIRMATION IS PROVIDED BY THE ALTOGETHER GROUP REPRESENTATIVE.*
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER GROUP REPRESENTATIVE. *THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CO-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.*
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA ARE:  
**TRAFFICABLE:**  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / CROSSING (2 Tests)  
**NON-TRAFFICABLE:**  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / 100m (4 Tests)  
*TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 & 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA*
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER GROUP REQUIREMENTS.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER GROUP REQUIREMENTS.
- WORK-AS-CO-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER GROUP Q.A. SUBMISSION CHECKLIST.*

GENERAL NOTES

- THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH THE HAWKESBURY CITY COUNCIL STANDARDS, ALTOGETHER GROUP SUPPLEMENTARY MANUAL TO W.S.A.A. & OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
- ALL PRESSURE SEWER LATERALS & RECYCLED WATER PROPERTY SERVICE CONNECTIONS CROSSING CARRIAGEWAYS SHALL BE INSTALLED WITHIN INDIVIDUAL SERVICE CONDUITS.
- THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS ON THE FOLLOWING DRAWINGS ARE INDICATIVE ONLY.
- MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENTS AND FOOTPATHS TO P.C.A. AND SUPERINTENDENTS REQUIREMENTS.
- SUITABLE PROTECTION OF EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

CLEARANCES BETWEEN PIPELINES & UNDERGROUND SERVICES

| Utility<br>(Existing or proposed service) | Minimum horizontal clearance<br>mm |            | Minimum vertical clearance <sup>1</sup><br>mm |
|---|------------------------------------|------------|---|
|   | New main size                      |            |   |
|   | <DN200                             | >DN200     |   |
| Water mains <sup>2</sup><br>> DN375       | 600                                | 600        | 300   |
| Water mains <sup>4</sup><br>< DN375       | 300*                               | 600        | 150   |
| Gas mains                                 | 300*                               | 600        | 150   |
| Telecommunication<br>cables and cables    | 300*                               | 600        | 150   |
| Electricity conduits<br>and cables        | 500                                | 1000       | 225*  |
| Stormwater drains                         | 300*                               | 600        | 150*  |
| Sewers - gravity                          | 1000*/ 600                         | 1000*/ 600 | 500*  |
| Sewers - pressure<br>and vacuum           | 600                                | 600        | 300*  |
| Kerbs                                     | 150                                | 600*       | 150 (where possible)                          |

- NOTES:
- Vertical clearances apply where pipelines cross other utility services, except in the case of water/sewer mains when a vertical separation shall always be maintained, even when the pressure sewer and water main are parallel. The pressure sewer should always be located below the water main to minimise the possibility of backflow contamination in the event of a pressure main break.
  - Water mains includes mains supplying both potable and recycled water.
  - For areas with existing water reticulation, clearances can be further reduced to 600mm with the approval of the water authority.
  - Clearances can be further reduced to 150mm for distances up to 2m when passing installations such as poles, pits, and small structures, providing the structures is not destabilised in the process.
  - Clearances from kerbs shall be measured from the nearest point of the kerb. For water/sewer <DN375, clearances from kerbs can be progressively reduced until the minimum of 150mm is reached for water/sewer <DN200.
  - Where a parallel sewer is at minimum vertical clearance (lower than the water main (500mm), maintain a minimum horizontal of 1000mm. This minimum clearance can be progressively reduced to 600mm as the vertical clearance is increased to 750mm.
  - For pressure sewer laterals, minimum vertical clearances may be reduced to 150mm providing there is no joint in the lateral within 500mm of either side of the service being crossed.
  - An additional clearance from high voltage electrical installations should be maintained above the conduits or cables to allow for a protective barrier and marking to be provided.
  - Water mains should always cross over sewers and stormwater drains. For cases where this is not alternative and the main must cross under the sewer, the design shall nominate an appropriate protection treatment (joint-free in the vicinity of the sewer).

\* SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE ALTOGETHER GROUP REPRESENTATIVE IN WRITING.

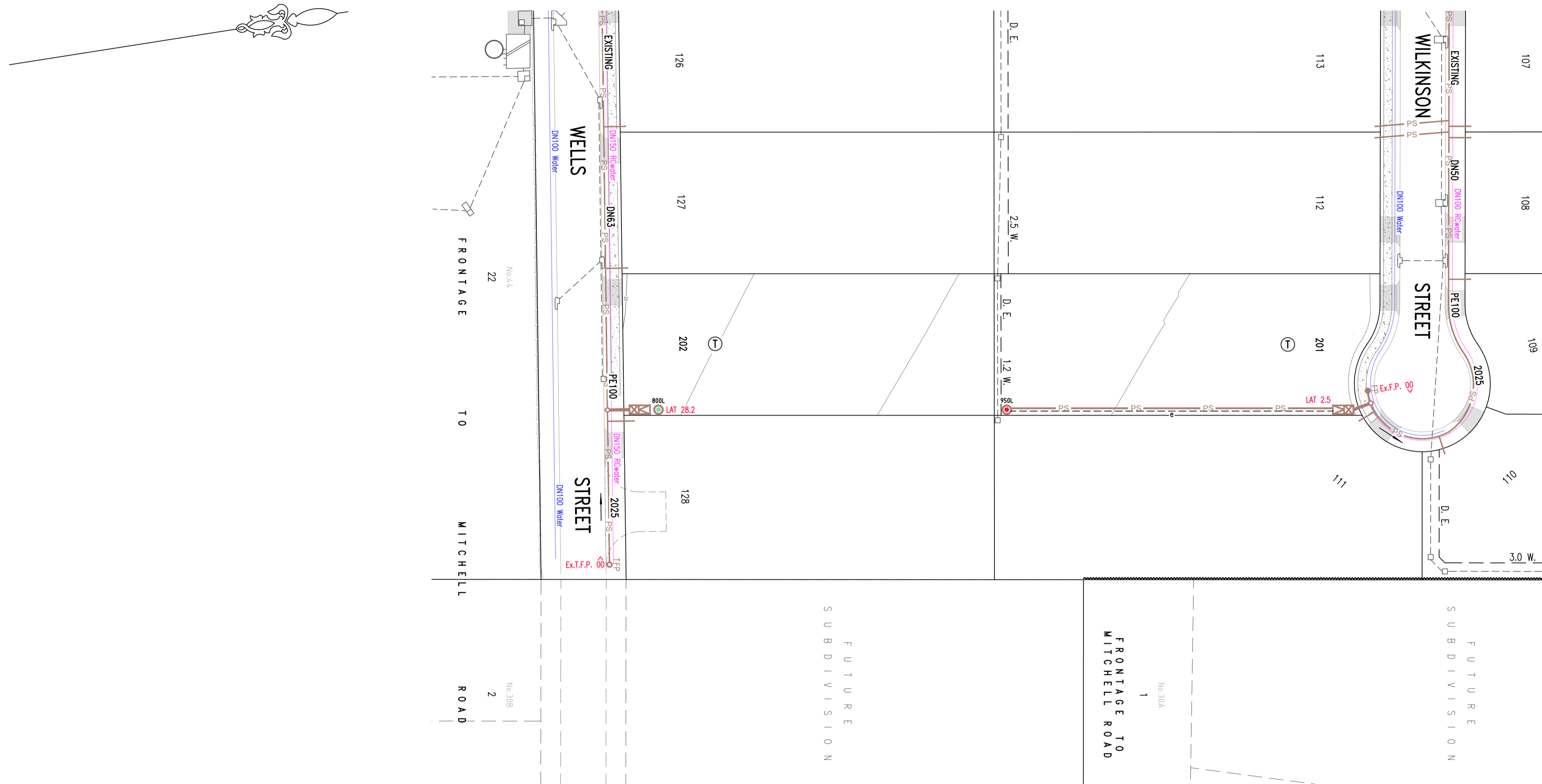
PRESSURE SEWER PIPE SCHEDULE

| SIZE | TYPE  | CLASS | LENGTH |
|------|-------|-------|--------|
| DN40 | PE100 | PN16  | 69.6   |

ALTOGETHER GROUP STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:

<https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers->

|   |  |                            |                            |                                     |   |                       |              |
|---|--|----------------------------|----------------------------|-------------------------------------|---|-----------------------|--------------|
| <br>WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT<br>SHOP 7 & 8 'M CENTRE'<br>40 STERLING ROAD, MINCHBURY NSW 2770<br>PH: (02) 9853 0200 FAX: (02) 9671 7399 |  | GENERAL NOTES              |                            |                                     |   | SHEET 2 OF 5          | VERSION: WAC |
|   |  | DRAFTER: K.GAO<br>SCALE: - | DESIGNER: K.GAO<br>DATE: - | REVIEWER: D.SHEATHER<br>DATE: 67.L9 | VERIFIED: D.SHEATHER<br>DATE OF ISSUE: 2/7/2025 | JOB NO.<br>10/28062/2 |              |

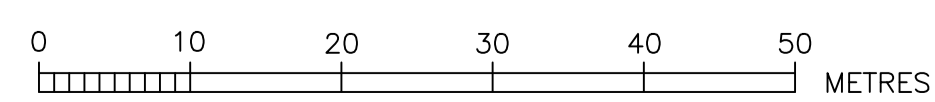


**PRESSURE SEWER LEGEND**

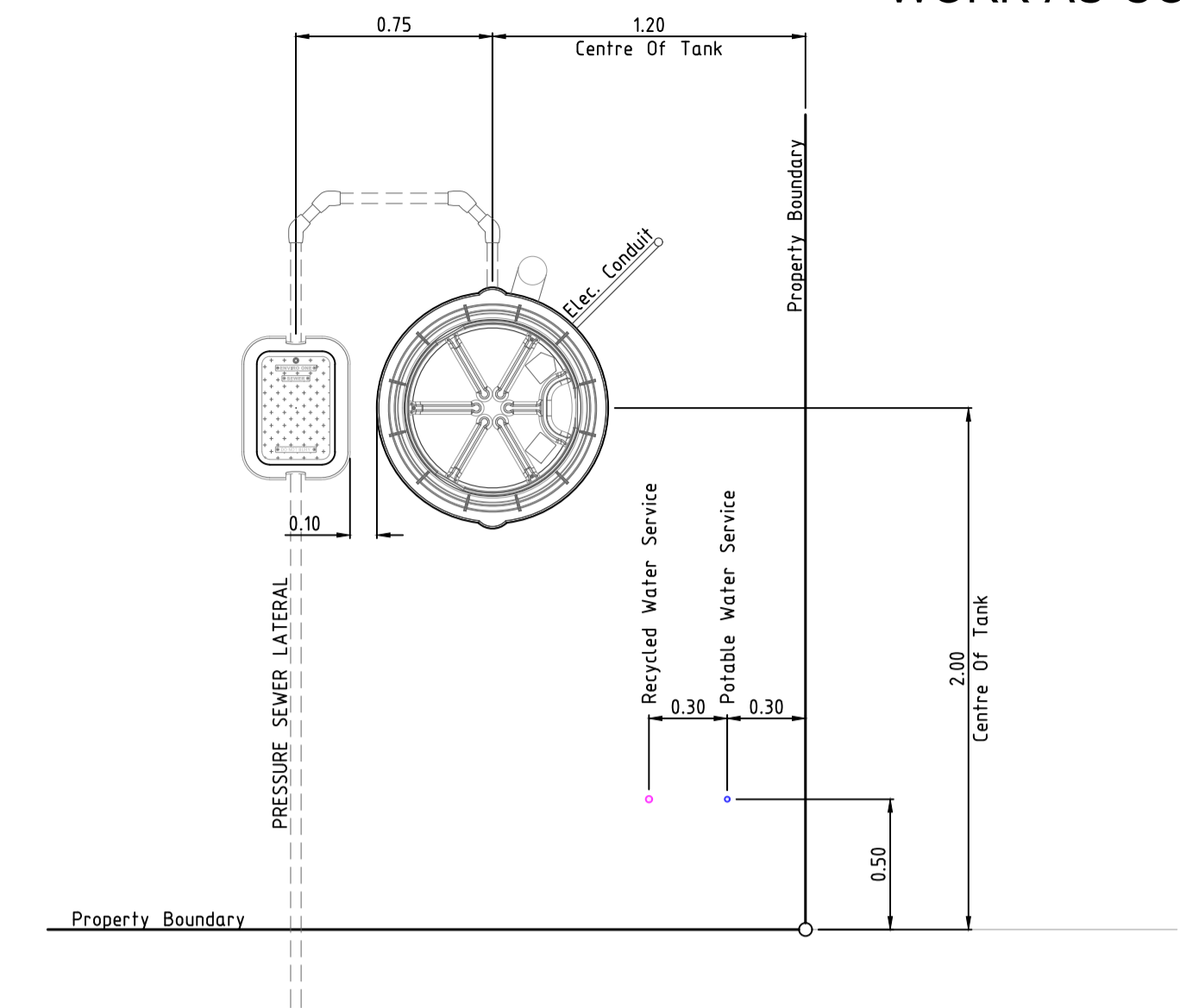
|  |                                      |
|--|--------------------------------------|
|  | STOP VALVE                           |
|  | STOP VALVE (NORMALLY CLOSED)         |
|  | TAPER                                |
|  | FLUSHING POINT                       |
|  | TEMPORARY FLUSHING POINT             |
|  | PROPERTY BOUNDARY KIT                |
|  | COLLECTION TANK (eONE 650L)          |
|  | COLLECTION TANK (eONE 800L)          |
|  | COLLECTION TANK (eONE 950L)          |
|  | CONTROL/ALARM PANEL                  |
|  | ELECTRICAL CABLES                    |
|  | FLOW METER                           |
|  | AIR VALVE                            |
|  | PRESSURE MONITORING POINT            |
|  | REMOTE MONITORED PRESSURE TRANSDUCER |
|  | VERTICAL DEFLECTION                  |

Ⓢ DENOTES PROPERTY LATERAL INSTALLED ON EXISTING MAIN. CONNECTION MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).

Ⓣ DENOTES PROPERTY LATERAL INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN WERE MADE BY MEANS OF A TEE ONLY. TAPPING SADDLES ARE NOT PERMITTED.



|   |                                   |                                 |   |   |                    |     |
|---|-----------------------------------|---------------------------------|---|---|--------------------|-----|
| <b>ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.</b><br><br>WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT<br>SHOP 7 & 8 'M CENTRE'<br>40 STERLING ROAD, MINCHBURY NSW 2770<br>PH: (02) 9853 0200 FAX: (02) 9671 7399 | <b>PRESSURE SEWER DETAIL PLAN</b> |                                 |   |   | SHEET 3 OF 5       | WAC |
|   | DRAWN: K.GAO<br>SCALE: 1:500      | DESIGNED: K.GAO<br>DATE: A.H.D. | REVIEWED: D.SHEATHER<br>DATE REFERENCE: 67 L9 | VERIFIED: D.SHEATHER<br>DATE OF ISSUE: 2/7/2025 | JOB No. 10/28062/2 |     |

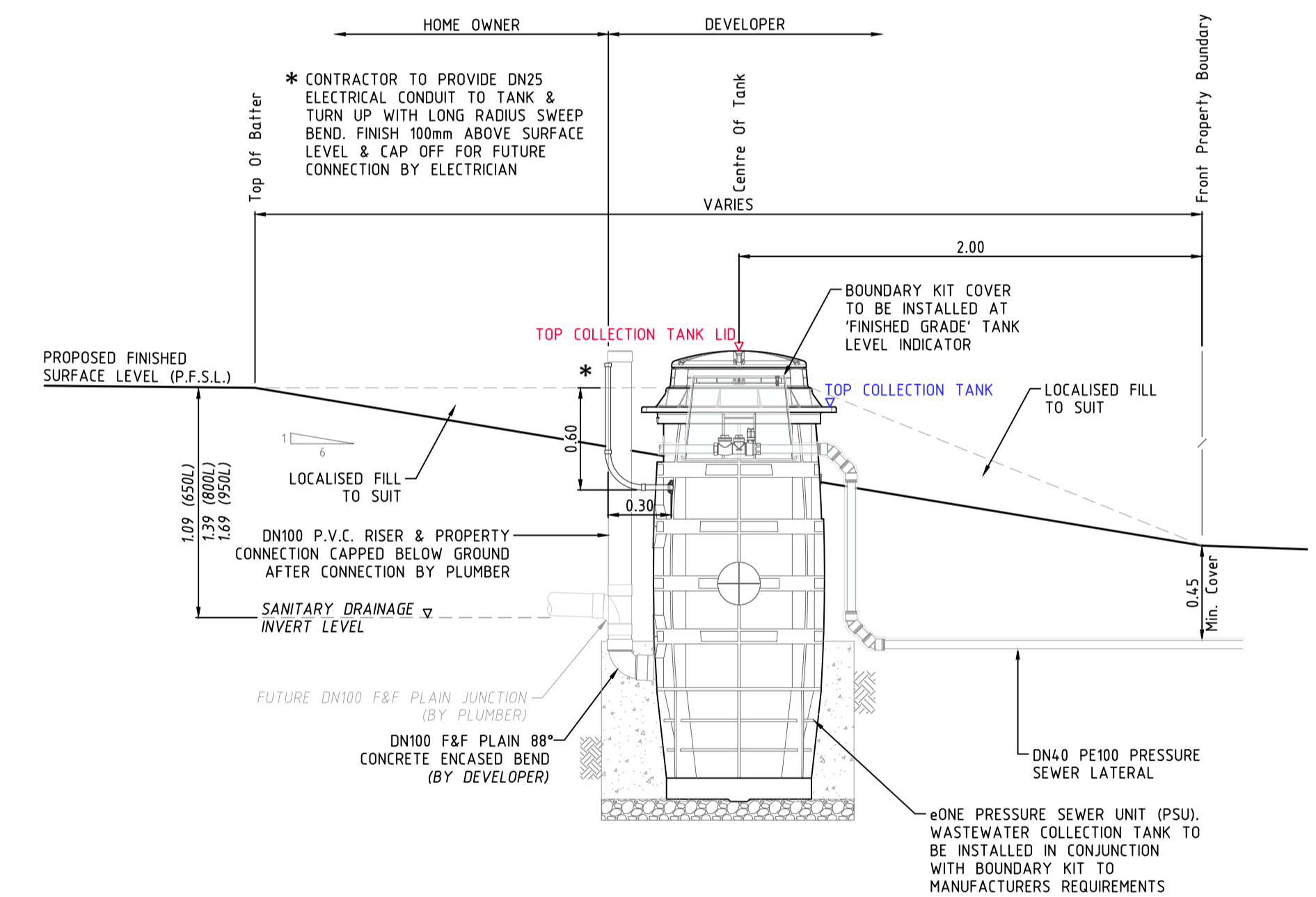


TYPICAL INFRASTRUCTURE SETOUT DIMENSIONS

SCALE 1:25

| PRESSURE SEWER COLLECTION TANK LEVEL DETAILS              |                          |                      |                       |                        |                                       |                             |   |  |
|---|--------------------------|----------------------|-----------------------|------------------------|---------------------------------------|-----------------------------|---|--|
| 65, 67 & 69 WELLS STREET, PITT TOWN SUBDIVISION [STAGE 2] |                          |                      |                       |                        |                                       |                             |   |  |
| LOT NUMBER  | COLLECTION TANK LOCATION | TANK SIZE            | PFSL AT TANK LOCATION | TOP OF COLLECTION TANK | DESIGN SANITARY DRAINAGE INVERT LEVEL | TOP OF COLLECTION TANK LID* | CALCULATED SANITARY DRAINAGE INVERT LEVEL | WAC v's DESIGN INVERT LEVEL COMPARISON |
|   | [FRONT / REAR]           | [650L / 800L / 950L] |                       | [Design R.L.]          | [Design R.L.]                         | [Work-As-Constructed]       | [Work-As-Constructed]                     | [- LOWER / + HIGHER]                   |
| 201   | REAR                     | 950L                 | 22.52                 | 22.48                  | 20.88                                 | 22.65                       | 20.78                                     | -0.10                                  |
| 202   | FRONT FLAT               | 800L                 | 22.15                 | 22.11                  | 20.81                                 | 22.30                       | 20.73                                     | -0.08                                  |

\* COLLECTION TANK LEVEL PROVIDED TO G.P.S. ACCURACY ONLY. THE BUILDER IS REQUIRED TO CONFIRM DRAINAGE CONSTRAINTS PRIOR TO MAKING CONNECTION TO TANK.



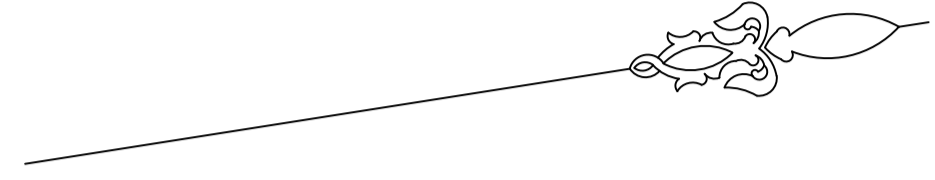
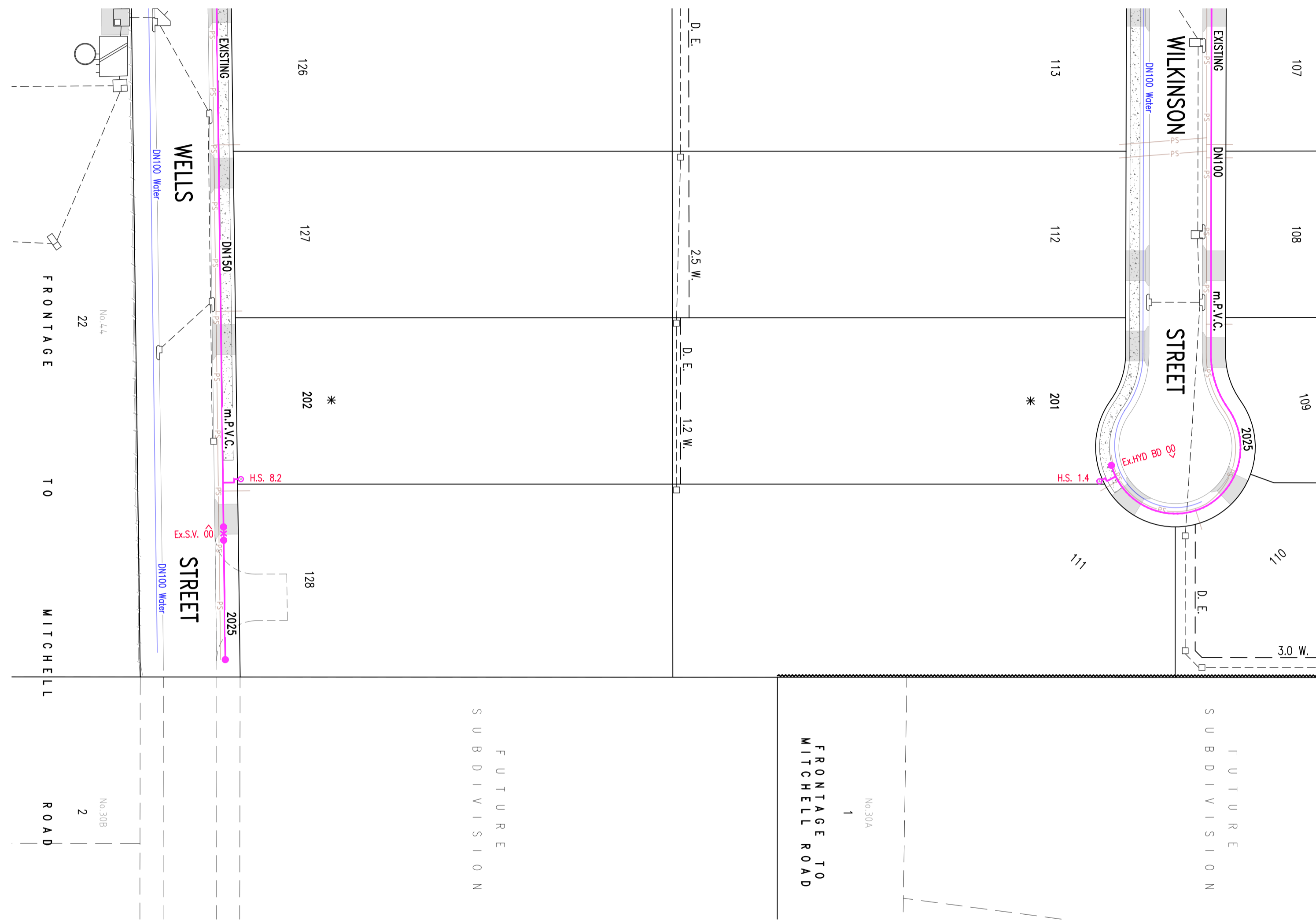
COLLECTION TANK SECTIONAL ELEVATION

SCALE 1:25

COLLECTION TANK NOTES

- DESIGN SURFACE LEVELS WERE ELECTRONICALLY EXTRACTED FROM DIGITAL DATA SUPPLIED BY THE ORION GROUP DATED 5/9/24 (22-0253-04-SWC\_DTM ULTIMATE 240905.dwg).
- DESIGN LEVELS CAN ONLY BE ASSUMED AS CURRENT AT TIME OF EXTRACTION. ALL LEVELS SHALL BE CONFIRMED WITH THE SITE SUPERINTENDENT PRIOR TO INSTALLATION OF TANKS. SHOULD THE PROPOSED FINISHED SURFACE LEVEL (P.F.S.L.) DIFFER FROM DESIGN BY MORE THAN 100mm, THE CONSTRUCTOR SHALL CONTACT THE DESIGNER IMMEDIATELY.
- COLLECTION TANK SETOUT SHALL BE COMPLIANT WITH FSI-1000-FS & FSI-SK03A-FS. COLLECTION TANK INSTALLATION LEVELS DOCUMENTED ADJACENT SHALL SUPERSEDE ANY LEVELS ADVISED ON DRAWING FSI-SK03A-FS.
- R.A.R. ACCEPT NO RESPONSIBILITY FOR INCONSISTENCIES IN EXTRACTED LEVELS RESULTING FROM CHANGES TO THE MODEL (SURFACE LEVEL) INFORMATION POST DATA EXTRACTION DATE.

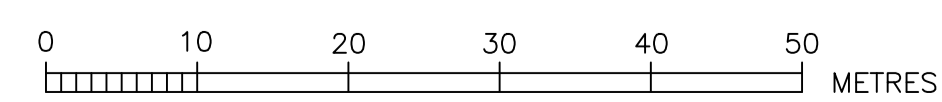
|   |  |  |                            |                                     |  |                       |                |
|---|--|--|----------------------------|-------------------------------------|--|-----------------------|----------------|
| <b>ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.</b><br>WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT<br><b>RAR</b><br>SHOP 7 & 8 'M CENTRE'<br>40 STERLING ROAD, MINCHINBURY NSW 2770<br>PH: (02) 9853 0200 FAX: (02) 9671 7399<br><small>Incorporated in New South Wales</small> |  | <b>COLLECTION TANK LEVEL DETAILS</b>       |                            |                                     |  | SHEET 4 OF 5          | VERSION<br>WAC |
|   |  | DRAWN: K.GAO<br>CHECKED: K.GAO<br>SCALE: - | DESIGNED: K.GAO<br>DATE: - | REVIEWED: D.SHEATHER<br>DATE: 67 L9 | VERIFIED: D.SHEATHER<br>DATE OF ISSUE: 27/2/2025 | JOB No.<br>10/28062/2 |                |



RECYCLED WATER LEGEND

|  |                                      |
|--|--------------------------------------|
|  | PROPOSED MAIN                        |
|  | EXISTING MAIN                        |
|  | FUTURE MAIN                          |
|  | STOP VALVE                           |
|  | STOP VALVE (BYPASS)                  |
|  | HYDRANT                              |
|  | CONTROL VALVE (HYDRANT)              |
|  | TAPER                                |
|  | WATER SERVICE CONNECTION             |
|  | FLOW METER                           |
|  | AIR VALVE                            |
|  | VERTICAL DEFLECTION                  |
|  | REMOTE MONITORED PRESSURE TRANSDUCER |

\* DENOTES PROPERTY SERVICE CONNECTION INSTALLED ON EXISTING MAIN. CONNECTION MADE TO EXISTING PRESSURISED MAIN WITH MAIN TAP IN ACCORDANCE WITH WAT-1108-V.



ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.  
**RAR** WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT  
 SHOP 7 & 8 'M CENTRE'  
 40 STERLING ROAD, MINCHBURY NSW 2770  
 PH: (02) 9853 0200 FAX: (02) 9671 7399

|                            |                 |                        |                         |                    |              |
|----------------------------|-----------------|------------------------|-------------------------|--------------------|--------------|
| RECYCLED WATER DETAIL PLAN |                 |                        |                         | SHEET 5 OF 5       | VERSION: WAC |
| DRAWN: K.GAO               | DESIGNED: K.GAO | REVIEWED: D.SHEATHER   | VERIFIED: D.SHEATHER    | JOB No. 10/28062/2 |              |
| SCALE: 1:500               | DATUM: -        | DRAW. REFERENCE: 67 L9 | DATE OF ISSUE: 2/7/2025 |                    |              |