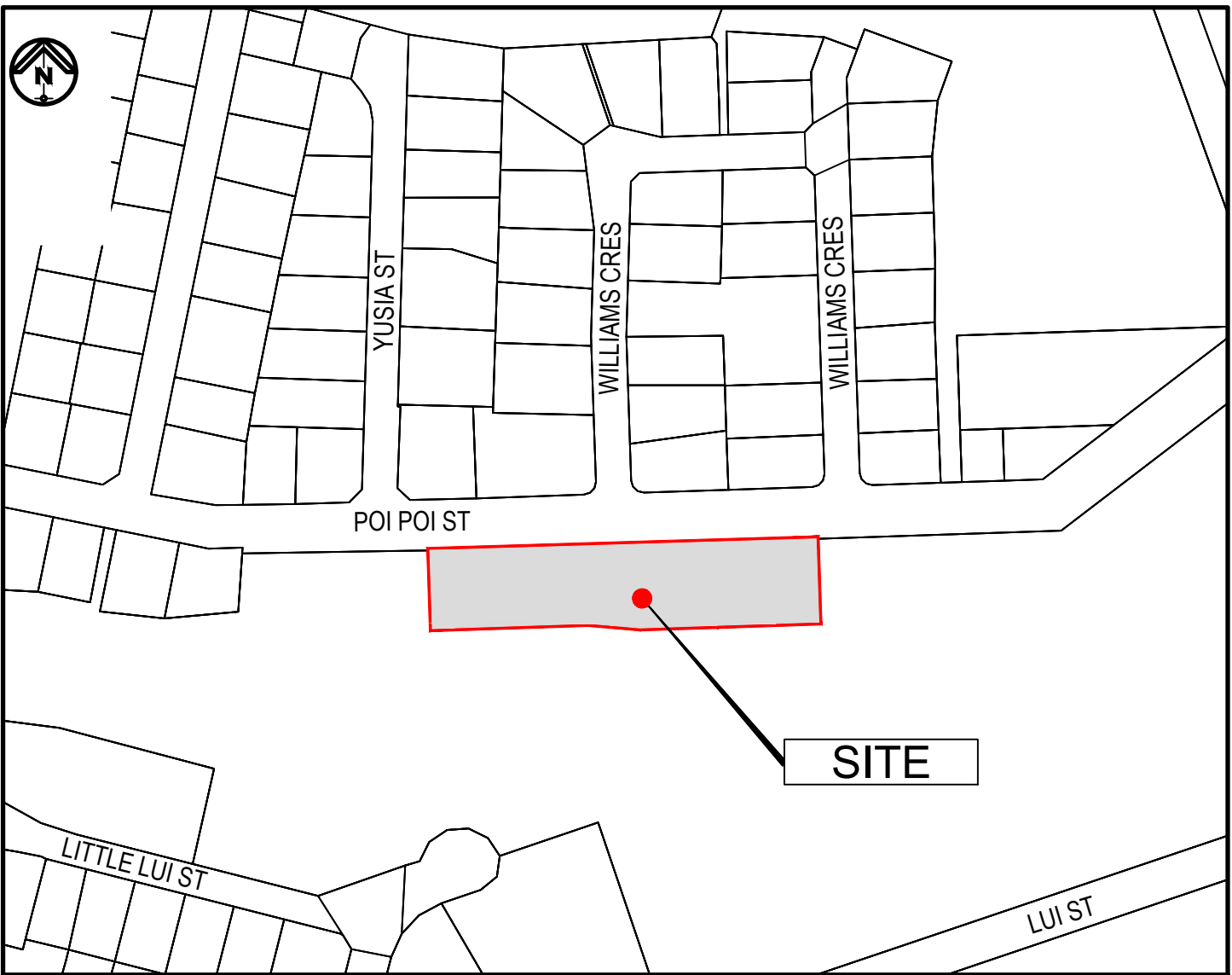


BAMAGA SEWER EXTENSION  
AT 322 - 327 SP273361  
POI POI STREET, BAMAGA, QLD 4876

SEWER AND WATER EXTENSION  
PROJECT NO. BE240177

GENERAL NOTES:

- CONTRACT DOCUMENTATION**  
ALL DRAWINGS UNDER THIS CONTRACT ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION.
- SURVEY INFORMATION**  
CONTROL SURVEY INFORMATION WILL BE ESTABLISHED ON SITE BY THE PRINCIPAL'S SURVEYOR. SETOUT INFORMATION SHALL NOT BE OBTAINED BY SCALING FROM THESE DRAWINGS.
- DATUM**  
ALL LEVELS SHOWN ON DRAWINGS ARE A.H.D. (DERIVED).
- EXISTING SURVEY CONTROL STATIONS**  
THE CONTRACTOR IS TO ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.
- EXISTING SERVICES**  
EXISTING SERVICES LOCATIONS WHERE SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES AND UNDERTAKE A DIAL-BEFORE-YOU-DIG SEARCH TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SERVICES.
- SITE ACCESS**  
THE CONTRACTOR SHALL GAIN ACCESS TO THE SITE AT LOCATIONS APPROVED BY THE SUPERINTENDENT. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES.
- PROVISION FOR TRAFFIC**  
PROVISION FOR TRAFFIC ON LOCAL ROADS IS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL AUTHORITY REQUIREMENTS.
- WORK BOUNDARIES**  
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORK AREAS UNDER THIS CONTRACT. AT NO TIME SHALL THE CONTRACTOR ENTER ADJOINING PROPERTIES OR CONTRACT WORK AREAS ON THE SITE WITHOUT WRITTEN AUTHORISATION FROM THE SUPERINTENDENT.
- TOPSOIL STRIPPING**  
ALL TOPSOIL STRIPPED FROM WORK AREAS SHALL BE STOCKPILED FOR LATER RE-SPREADING TO ALL FOOTPATHS, BATTERS AND ALLOTMENTS.
- EARTHWORKS (GENERAL)**  
ALL FILL MATERIAL PLACED SHALL BE COMPACTED AND TRIMMED TO FINAL EARTHWORKS LEVELS AND PROFILES SHOWN ON THE CONTRACT DRAWINGS AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION.  
ALL COMPACTION TESTING UNDER THIS CONTRACT IS TO BE CARRIED OUT TO AS3798 LEVEL 1 STANDARD BY A NATA-ACCREDITED TESTING AUTHORITY. CERTIFICATION FOR ALL EARTHWORKS CONSTRUCTION AND TESTING IS TO BE PROVIDED BY A REGISTERED PROFESSIONAL ENGINEER QUEENSLAND (RPEQ) ENGAGED BY THE CONTRACTOR.
- COMPACTION STANDARDS**  
ALL FILL MATERIAL PLACED UNDER THIS CONTRACT SHALL BE COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND CURRENT COUNCIL STANDARDS.
- SEWERAGE RETICULATION**  
THE DESIGN SURFACE LEVELS OF SEWER MANHOLES ARE TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION. ALL SEWERAGE RETICULATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE (SEQ CODE) AND ASSOCIATED STANDARD DRAWINGS.
- WATER RETICULATION**  
ALL WATER RETICULATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE (SEQ CODE) AND ASSOCIATED STANDARD DRAWINGS.
- ELECTRICAL RETICULATION**  
ALIGNMENTS OF ALL CONDUIT CROSSINGS ARE TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO EXCAVATION. ALL TRENCHING AND CONDUIT WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT CONSULTANT'S DRAWINGS AND ENERGEX SPECIFICATION "UNDERGROUND DISTRIBUTION CONSTRUCTION."
- TESTING**  
ALL TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND COUNCIL STANDARDS.
- "AS CONSTRUCTED" SURVEY**  
"AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE PRINCIPAL'S SURVEYOR AS WORK PROCEEDS.
- MAINTENANCE OF SITE CONDITION**  
AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND RELEVANT COUNCIL REPRESENTATIVE.
- REFERENCED DOCUMENTS**  
ALL DRAWINGS TO BE READ IN CONJUNCTION WITH:  
- LANDSCAPE ARCHITECTS DRAWINGS  
- ELECTRICAL DRAWINGS  
- VEGETATION MANAGEMENT AND TREE CLEARING REQUIREMENTS  
- ARCHITECTURAL DRAWINGS
- SURVEY DATA / CONTROL** - DETAILED DESIGNS HAVE BEEN CONDUCTED USING SURVEY DATA PROVIDED BY CG SURVEYING & PLANNING



LOCALITY PLAN  
N.T.S.

DRAWING INDEX

DRG No.	DESCRIPTION
C000	COVER SHEET, LOCALITY PLAN, DRAWING INDEX & NOTES
C100	OVERALL LAYOUT PLAN
C500	WATER MAIN LAYOUT PLAN & LONG SECTION
C510	WATER RETICULATION NOTES & DETAILS
C600	SEWER MAIN LAYOUT PLAN & LONG SECTION
C610	SEWER RETICULATION NOTES & DETAILS
C900	HAZARD RISK REGISTER - DESIGN RISKS
S001	COVER SHEET NOTES AND KEY PLAN
S101	BAMAGA PRESSURE SEWER MASTER PLAN
S201	ON PROPERTY DETAIL SHEET FOR INFORMATION
ST301	STREET MAIN DETAILS SHEET 1; GENERAL DETAIL, UNDER ROAD BORE
ST302	STREET MAIN DETAILS SHEET 2; BOUNDARY KIT, TRENCH DETAILS
ST303	STREET MAIN DETAILS SHEET 3; FLUSHING POINT, SEWER CONNECTION

PREPARED FOR

**LACKON**

PROJECT MANAGEMENT | CONSTRUCTION MANAGEMENT  
Gold Coast Office: Unit 3/5, Centre View, Progress Station QLD 4216  
Bundaberg Office: 200 Quay Street, Bundaberg QLD 4670  
Lackon Pty Ltd - ABN: 67 638 504 371  
Pty. LTD 00110020

PREPARED BY

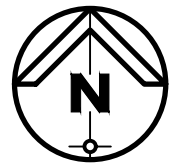


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IPSWICH | MORETON BAY  
PHONE: +61 7 5509 6400  
FAX: +61 7 5509 6411  
EMAIL: ADMIN@BURCHILLS.COM.AU  
**COOTE BURCHILLS ENGINEERING PTY LTD**  
ABN 76 166 942 365

FOR APPROVAL

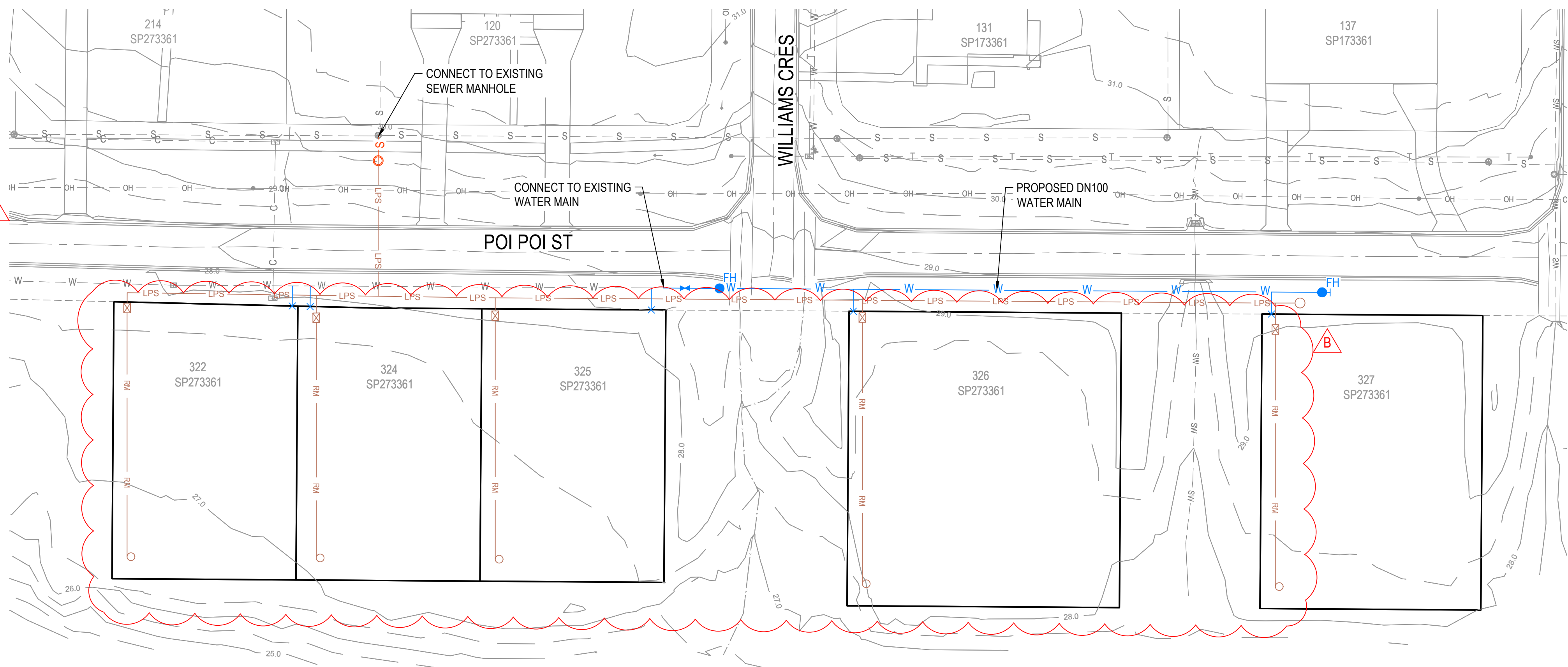
DATE : 23.10.2024

PROJECT No. : <b>BE240177</b>	DRAWING No. : <b>C000</b>	VERSION: <b>A</b>
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LEGEND

- SW — SW — EXISTING STORMWATER  
— W — W — EXISTING WATER  
— S — S — EXISTING SEWER  
— — — — EXISTING KERB  
— W — PROPOSED WATER  
— S — PROPOSED SEWER  
— LPS — PROPOSED LOW PRESSURE MAIN  
[Box with X] PROPOSED SEWER BOUNDARY KIT  
— RM — INTERNAL PRESSURE SEWER MAIN  
[Circle with X] PRESSURE SEWER TANK UNIT  
— FH — R — V — HYDRANT / REDUCER / VALVE



OVERALL LAYOUT PLAN

SCALE 1 : 400 (FULL SIZE)

**NOTE:**  
LOCATIONS AND ALIGNMENTS OF THE INTERNAL PRESSURE SEWER MAIN AND PRESSURE SEWER TANK UNIT ON EACH LOT IS SHOWN INDICATIVELY ONLY BASED ON LACKON SUPPLIED HYDRAULICS DRAWINGS (REF 322-326 HYDRAULIC DESIGN) DATED APRIL 2024. REFER TO PS SOLUTIONS DRAWING S201-B FOR DETAILS ON THE PRESSURE MAIN AND PRESSURE SEWER TANK UNIT. PRESSURE SEWER TANK UNIT LEVELS TO BE DETERMINED ON SITE BASED ON AS CONSTRUCTED BUILDING AND PLUMBING

**NOTE:**  
ALL DESIGN/SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT FROM THE OFFICE OF THE SUPERINTENDENT UPON REQUEST BY THE CONTRACTOR.

**WARNING: UNDERGROUND SERVICES:**  
UNDERGROUND SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

POI POI STREET,  
BAMAGA QLD 4876

FOR

**LACKON**

PROJECT MANAGEMENT | CONSTRUCTION MANAGEMENT  
Brisbane Office: 100/111 & 112/113, 114/115, 116/117, 118/119, 120/121, 122/123, 124/125, 126/127, 128/129, 130/131, 132/133, 134/135, 136/137, 138/139, 140/141, 142/143, 144/145, 146/147, 148/149, 150/151, 152/153, 154/155, 156/157, 158/159, 160/161, 162/163, 164/165, 166/167, 168/169, 170/171, 172/173, 174/175, 176/177, 178/179, 180/181, 182/183, 184/185, 186/187, 188/189, 190/191, 192/193, 194/195, 196/197, 198/199, 200/201, 202/203, 204/205, 206/207, 208/209, 210/211, 212/213, 214/215, 216/217, 218/219, 220/221, 222/223, 224/225, 226/227, 228/229, 230/231, 232/233, 234/235, 236/237, 238/239, 240/241, 242/243, 244/245, 246/247, 248/249, 250/251, 252/253, 254/255, 256/257, 258/259, 260/261, 262/263, 264/265, 266/267, 268/269, 270/271, 272/273, 274/275, 276/277, 278/279, 280/281, 282/283, 284/285, 286/287, 288/289, 290/291, 292/293, 294/295, 296/297, 298/299, 300/301, 302/303, 304/305, 306/307, 308/309, 310/311, 312/313, 314/315, 316/317, 318/319, 320/321, 322/323, 324/325, 326/327, 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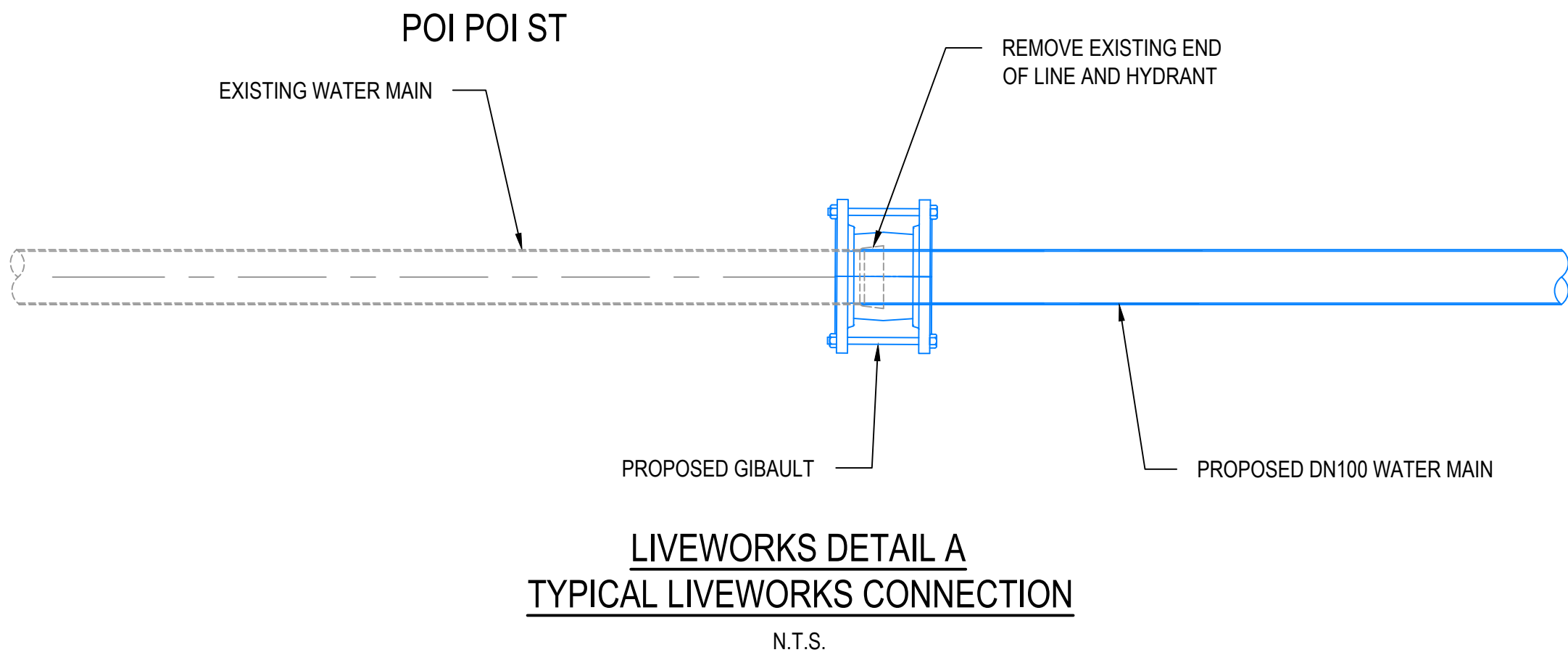
1. WATER MAIN ALIGNMENT IS 3.0m FROM ROAD RESERVE BOUNDARY UNLESS SHOWN OTHERWISE.
2. ALL WATER MAINS ARE TO BE PVC-M SERIES 2 PN 16 (RRJ).
3. MINIMUM COVER TO WATER MAINS SHALL BE 600mm (MEASURED FROM LIP OF KERB)
4. ALL WATER MAINS AND FITTINGS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE FNQROC WATER SUPPLY STANDARD DRAWINGS.
5. FOR LOCATIONS OF ELECTRICAL ROAD CROSSING CONDUITS REFER ELECTRICAL CONSULTANT'S DRAWINGS.
6. WATER SERVICE LOCATIONS SHALL NOT BE IN CONFLICT WITH ELECTRICAL PILLARS. SUPERINTENDENT TO BE NOTIFIED PRIOR TO CONSTRUCTION IF CONFLICT IS APPARENT.
7. ALL HYDRANTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH FNQROC STANDARD DRAWINGS.
8. CONTRACTOR TO ENSURE ALL WATER FITTINGS (VALVES AND HYDRANTS) ARE LOCATED CLEAR OF FUTURE DRIVEWAYS.
9. WATER SERVICES TO ALLOTMENTS FROM MAINS TO BE VIA AN APPROVED TAPPING BAND IN ACCORDANCE WITH THE FNQROC CODE IPAM PRODUCT LIST.

1. TREES LOCATED ALONG THE FOOTPATH SHALL BE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
2. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
3. TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

1. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
2. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

1. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
2. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT FAR NORTH QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN FNQROC REQUIREMENT
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. A WATER METER IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE FNQROC
7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE FNQROC ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE FNQROC-SP.
8. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH FNQROC REQUIREMENTS
9. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
10. WATER MAIN EMBEDMENT TO BE IN ACCORDANCE WITH FNQROC WATER SUPPLY STANDARD DRAWINGS. REFER FNQROC REQUIREMENTS. TYPE C BEDDING TO BE USED IN VERGES & TYPE CT UNDER ROADS. CT DENOTES TYPE C EMBEDMENT UNDER ROADS WITH CBR15 TRENCH FILL MATERIAL.
11. WATER MAIN THRUST BLOCKS TO BE IN ACCORDANCE WITH FNQROC REQUIREMENTS . THRUST BLOCK DIMENSIONS TO BE SUBMITTED FOR CONSTRUCTION APPROVAL PRIOR TO POUR.



**NOTE:**  
FOR FURTHER TRENCHING DETAILS AND NOTES REFER TO  
FNQROC STANDARD DRAWING S2016A

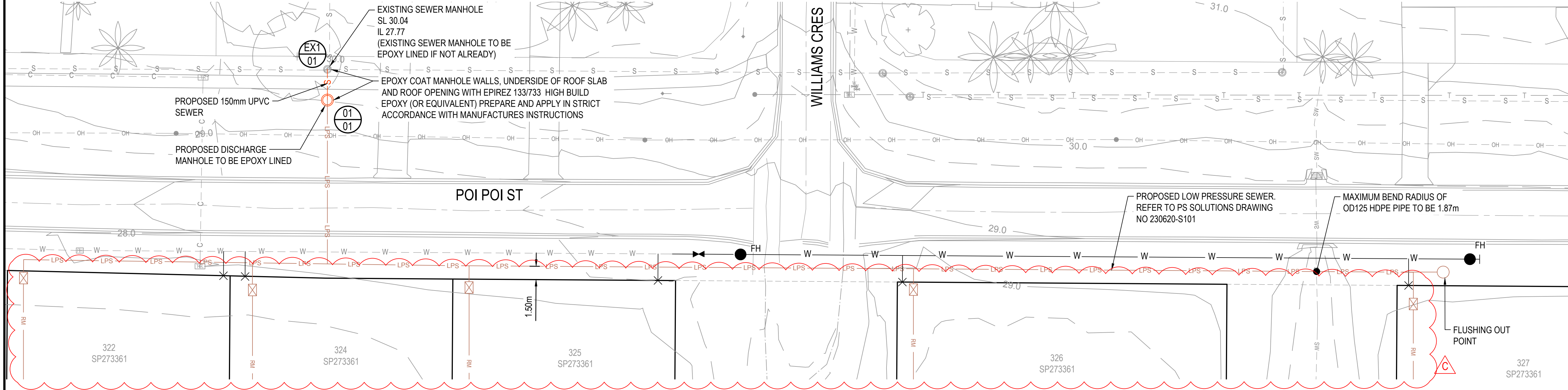
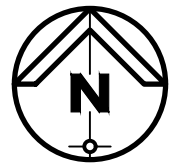


PROJECT No.:	DRAWING No. :	VERSION:
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**NOTE:**  
ALL DESIGN/SETOUT INFORMATION SHOWN ON THIS DRAWING IS  
AVAILABLE IN DIGITAL FORMAT FROM THE OFFICE OF THE  
SUPERINTENDENT UPON REQUEST BY THE CONTRACTOR.

**WARNING: UNDERGROUND SERVICES:**  
UNDERGROUND SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.





SEWER MAIN LAYOUT PLAN & LONG SECTION

SCALE 1 : 250 (FULL SIZE)

MAINTENANCE HOLE/SHAFT No.

MH/MS COVER TYPE	D
MH/MS TYPE	1050MH

LEGEND

- 28.5 --- EXISTING SURFACE CONTOURS
- 28.5 — DESIGN SURFACE CONTOURS
- SW — SW — EXISTING STORMWATER
- W — W — EXISTING WATER
- S — S — EXISTING SEWER
- — — EXISTING KERB
- w — PROPOSED WATER
- s — PROPOSED 150mm UPVC SEWER
- LPS — PROPOSED LOW PRESSURE SEWER - DESIGNED BY OTHERS
- ⊠ PROPOSED SEWER BOUNDARY KIT
- RM — INTERNAL PRESSURE SEWER MAIN
- PRESSURE SEWER TANK UNIT
- ⊙ PROPOSED SEWER STRUCTURE
- PROPOSED SEWER LINE

DATUM	21.000
PROP. DESCRIPTION	ROAD RESERVE
PIPE NOMINAL DIAMETER (DN) TYPE, CLASS	DN150 uPVC
GRADE (1 IN XX)	1 in 167
DEPTH OF INVERT BELOW FSL	2.203 2.203 1.662 1.658
INVERT LEVEL (IL)	27.837 27.837 27.868 27.861
FINISHED SURFACE LEVEL (FSL)	30.040 29.519
EXISTING SURFACE LEVEL (ESL)	29.812 29.519
CHAINAGE (CH)	0.000 3.423

SEWER RETICULATION LONGITUDINAL SECTION

SCALES 1 : 500 HORIZ. 1 : 50 VERT. (FULL SIZE)

NOTE:

LOCATIONS AND ALIGNMENTS OF THE INTERNAL PRESSURE SEWER MAIN AND PRESSURE SEWER TANK UNIT ON EACH LOT IS SHOWN INDICATIVELY ONLY BASED ON LACKON SUPPLIED HYDRAULICS DRAWINGS (REF 322-326 HYDRAULIC DESIGN) DATED APRIL 2024. REFER TO PS SOLUTIONS DRAWING S201-B FOR DETAILS ON THE PRESSURE MAIN AND PRESSURE SEWER TANK UNIT. PRESSURE SEWER TANK UNIT LEVELS TO BE DETERMINED ON SITE BASED ON AS CONSTRUCTED BUILDING AND PLUMBING

NOTE:

LOW PRESSURE SEWER LINE AS INDICATED ON THIS DRAWING AS BROWN HAS BEEN DESIGNED BY PS SOLUTIONS. FOR ALIGNMENT, NOTES AND DETAILS ON THIS MAIN, REFER TO THE PS SOLUTIONS DRAWINGS WHICH ARE ATTACHED AT THE END OF THIS DRAWING SET.

NOTE:

INDICATIVE LONG SECTION ONLY AND MAY NEED TO BE ADJUSTED ON SITE

NOTE:

ALL DESIGN/SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT FROM THE OFFICE OF THE SUPERINTENDENT UPON REQUEST BY THE CONTRACTOR.

WARNING: UNDERGROUND SERVICES:

UNDERGROUND SERVICES EXIST IN THIS VICINITY. THE CONTRACTOR IS TO CONTACT THE RELEVANT AUTHORITIES TO CONFIRM EXACT LOCATION OF SERVICES ON SITE PRIOR TO ANY EXCAVATION OR CONSTRUCTION COMMENCING.

POI POI STREET,  
BAMAGA QLD 4876

FOR

LACKON

PROJECT MANAGEMENT | CONSTRUCTION MANAGEMENT  
Gold Coast Office: Unit 18 & 19 Gateway Village, Burringbar QLD 4225  
Bundaberg Office: 201 Quay Street, Bundaberg QLD 4670  
Lackon Pty Ltd - ABN 67 555 934 571  
Ph: (07) 5510 8028

A1 ORIGINAL SIZE BEFORE REDUCTION

C	LPS AMENDMENTS	26.02.2025
B	BEDDING DETAIL AMENDED	08.04.2025
A	ORIGINAL ISSUE	23.10.2024
VER.	DESCRIPTION	DATE

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Email: admin@burchills.com.au  
Coote Burchills Engineering Pty Ltd  
ABN 76 166 942 365

PROJECT:

POI POI STREET, BAMAGA

DRAWING TITLE :

SEWER MAIN LAYOUT PLAN  
& LONG SECTION

DEVEL. APPLIC. No.: - DATE: 26.02.2025

PROJECT LEADER : HARRISON LISTER

DESIGNER : TG

DRAFTSPERSON : HN

CHECKED : RYAN SABA

APPROVED FOR AND ON BEHALF OF  
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

SCALE : AS NOTED DATUM : AHD FULL SIZE : A1

PROJECT No.: BE240177 DRAWING No.: C600 VERSION: C

FOR APPROVAL



SEWER NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT FNQROC SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE FNQROC SERVICE PROVIDER SEWERAGE SYSTEM.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH LOT SHALL BE SERVED BY A DN100 PVC PROPERTY CONNECTION. FOR LOTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PVC PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 1000mm.
- WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S.1289 (MODIFIED COMPACTION). TESTING WILL BE CARRIED OUT AFTER EACH ALTERNATIVE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FNQROC SEWER CODE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED / ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE FNQROC SEWER CODE.
- BENCH MARK AND LEVELS TO AHD.
- FOR SEWERAGE RETICULATION ALIGNMENTS AND STRUCTURE LOCATIONS REFER LONGITUDINAL SECTIONS.
- THE CONTRACTOR SHALL MAINTAIN MINIMUM VERTICAL CLEARANCE FROM ALL EXISTING UTILITIES WHERE CROSSING OCCUR IN ACCORDANCE WITH FNQROC SEWERAGE CODE SPECIFICATION.
- THE CONTRACTOR SHALL HAVE AN APPROVED SET OF CONSTRUCTION DRAWINGS AND ALL RELEVANT STANDARD DRAWINGS AND STANDARD SPECIFICATIONS ON SITE AT ALL TIMES DURING THE CONSTRUCTION PHASE.
- ALL WORKS ASSOCIATED WITH CONNECTIONS TO LIVE SEWERS OR MAINTENANCE HOLES TO BE PERFORMED BY AN APPROVED CONTRACTOR UNDER THE SUPERVISION OF LOGAN WATER AT THE DEVELOPER'S EXPENSE.
- STORMWATER MAINS >= Ø600 CROSSING OVER SEWER ARE TO BE SUPPORTED BY A BRIDGING STRUCTURE IN ACCORDANCE WITH CL4.4.5.2 OF WSA02-2002-2.3 AMENDED BY FNQROC DESIGN AND CONSTRUCTION CODE.
- TYPE 4 SUPPORT TO BE USED WHERE MIGRATORY NATIVE SOILS (OR SAND OR FINE CLAY MATERIAL) ARE ENCOUNTERED ADJACENT TO THE EMBEDMENT ZONE AND SINGLE SIZED AGGREGATE IS USED) AND COUNCIL STANDARDS FOR ROAR ROADWAYS. WHICHEVER IS MORE ONEROUS.

REHABILITATION NOTES:

- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

SAFETY

- THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

ENVIRONMENTAL CONDITIONS NOTES VEGETATION PROTECTION NOTES:

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL NOTES:

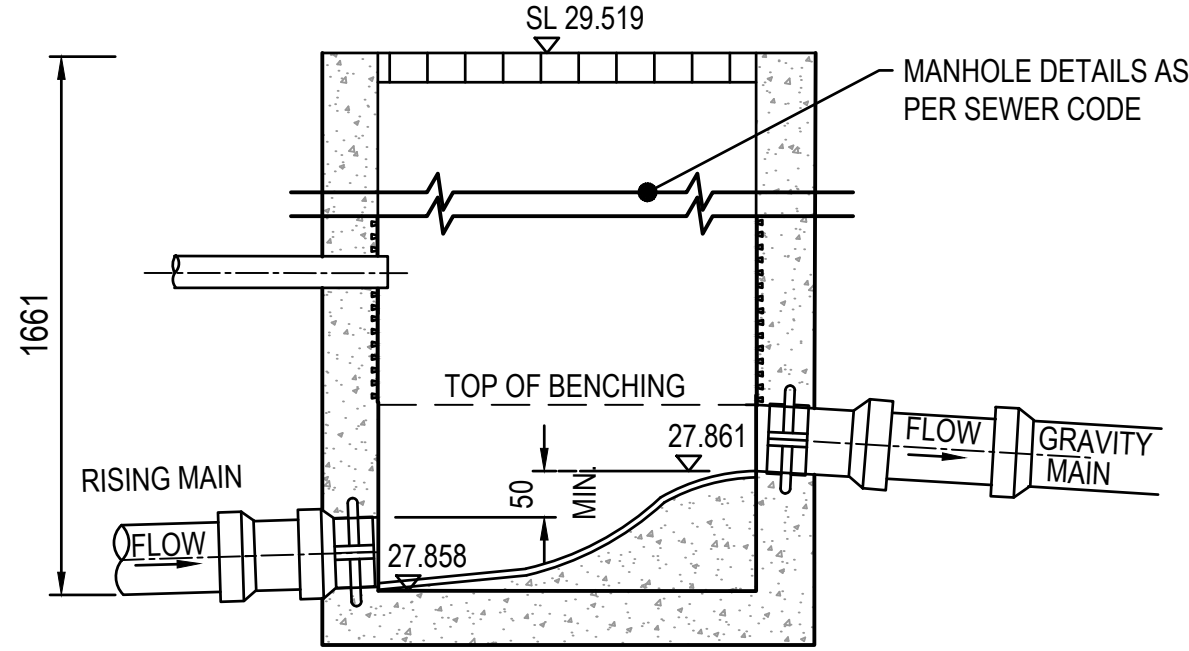
- TOPSOIL AND SUBSOIL SHALL BE STOCKPILES SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM FROM ENTERING THE STORMWATER RCP SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE CONTROLS AROUND STOCKPILES.
- ACID SULPHATE SOIL  
A SUITABILITY QUALIFIED GEOTECHNICAL ENGINEER SHOULD BE ON SITE DURING THE TRENCH EXCAVATION AND THE PRESENCE OF ACID SULPHATE SOILS BE CONSIDERED FROM VISUAL ASSESSMENT ONLY. IF ACID SULPHATE SOILS ARE CONSIDERED PRESENT, A 0.5kg SOIL SAMPLE IS TO BE TAKEN FROM THE TRENCH AND TESTED.

NOTE:  
ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

DIAMETER (DN)	WIDTH
100	600
150	600
225	700

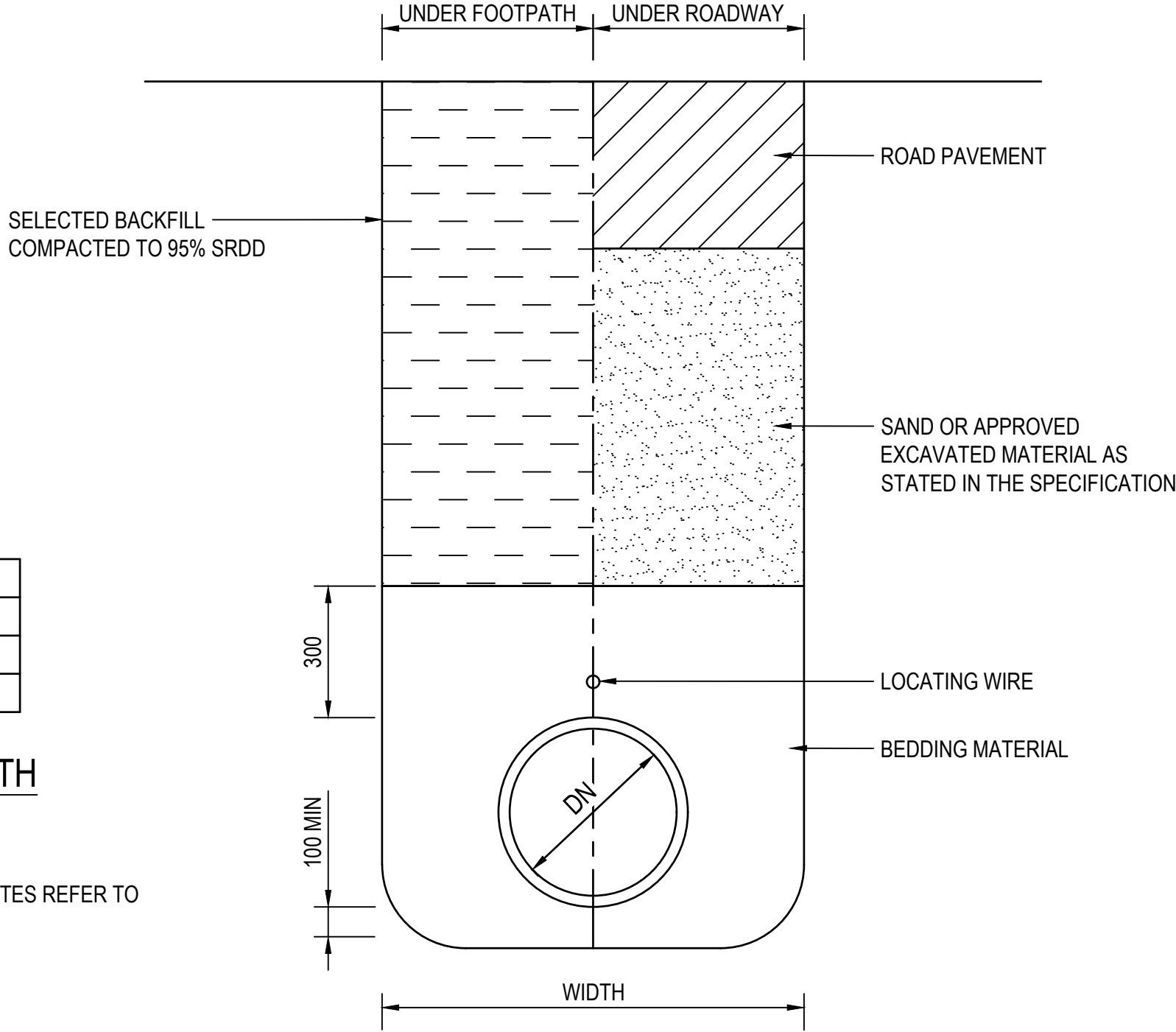
STANDARD TRENCH WIDTH

NOTE:  
FOR FURTHER TRENCHING DETAILS AND NOTES REFER TO FNQROC STANDARD DRAWING S3015B



PART SECTIONAL ELEVATION RISING MAIN DISCHARGE MANHOLE

SCALE 1:25  
1 : 25 (FULL SIZE)



BEDDING AND TRENCH DETAILS - TYPE 1 (APPROVED BEDDING) NTS

FOR APPROVAL

POI POI STREET,  
BAMAGA QLD 4876

FOR

**LACKON**  
PROJECT MANAGEMENT | CONSTRUCTION MANAGEMENT  
Gold Coast Office: Unit 10, 8 Campbell Street, Robina QLD 4226  
Bundaberg Office: 200 Quay Street, Bundaberg QLD 4670  
Lackon Pty Ltd - ABN 67 550 936 571  
Ph: (07) 5510 8028

**A1** ORIGINAL SIZE BEFORE REDUCTION

B	BEDDING DETAIL AMENDED	08.01.2025
A	ORIGINAL ISSUE	23.10.2024
VER.	DESCRIPTION	DATE

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**BURCHILLS**  
ENGINEERING SOLUTIONS

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Fax: +61 7 5509 6411  
Email: admin@burchills.com.au  
**Coote Burchills Engineering Pty Ltd**  
ABN 76 166 942 365

PROJECT:  
  
POI POI STREET, BAMAGA

DRAWING TITLE :  
  
SEWER RETICULATION  
NOTES & DETAILS

DEVEL. APPLIC. No. : -	DATE : 08.01.2025
PROJECT LEADER : HARRISON LISTER	
DESIGNER : TG	
DRAFTSPERSON : HN	
CHECKED : RYAN SABA	
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS	ABN 76 166 942 365
SCALE : AS NOTED	DATUM : AHD
PROJECT No.: BE240177	DRAWING No. : C610
	VERSION: B



QMS RISK & OPPORTUNITIES REGISTER							
SAFETY IN DESIGN – NORMAL DESIGN RISKS - CIVIL							
Design Element	Associated risks & opportunities	Raw risk assessment		Raw risk rating	Treatment Measures to avoid, minimize or treat the risk.	Responsibility	Residual risk rating
		Like life od	Con seq uence				
CONSTRUCTION PHASE							
SITE ACCESS	Unsafe site access and egress point, restricted access, flooding, unauthorised access from persons or animals	L	M	L-M	Prepare site specific Construction Traffic Management Plan and Workplace Health and Safety Management Plan	Principal Contractor	L
CLEARING & DEMOLITION	Removal of existing structures, decommission of services, vegetation clearing and fauna management	M	H	M-H	Contractor to obtain Demolition Permit, arrange all service disconnections with asset ownerand carry out vegetation works in accordance with Vegetation and Fauna Management Plan	Principal Contractor	L
EXISTING SERVICES	Distrub or damage existing services and infrastructure, overhead powerlines, work adjacent to existing services, existing service relocations	M	H	M-H	Client to commission detailed site survey and service potholing at critical locations. Contractor to undertake Dial Before You Dig and service verification with service authority providers and undertake additional potholing prior to construction	Client and Principal Contractor	L-M
EXCAVATION & TRENCHING	Unstable existing slopes and landslip, steep cut profiles, deep trench excavations, working at heights, intercept water table, dispersive soils, acid sulphate soils	M	H	M-H	Client to commission a geotechnical investigation and contractors to undertake own investigations. Temporary and final earthworks profiles confirmed by client's geotechnical consultant. Tempory earthworks profile to be confirmed by Contractor's geotechnical consultant. Contractor to provide temporary benching, fencing, stabilisation and shoring.	Client and Principal Contractor	L
MATERIALS HANDLING	Manual handling, handling and disposal of sharps, repeative work processeds, hazardous substances	H	M	M-H	Contractor or provide a site specific Workplace Health and Safety Management Plan including Material Safety Data Sheets	Principal Contractor	L
PLANT & EQUIPMENT	Operation of plant and machinery, site access by visitors, material deliveries and waste removal	M	H	M-H	Contractor or provide a site specific Workplace Health and Safety Management Plan including register of operator machinery tickets. Contractor to maintain a site visitor register and provide site specific induction to all visitors	Principal Contractor	L
OPERATIONAL PHASE							
ROADS & PATHWAYS	General road safety, flood free access, pedestrian and cyclist injuries, inadequate signage	L	H	M	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
STORWATER / FLOODING	Hazard from storm and flood water depths and velocities, ponding and access to inlets, outlets and basins	M	H	M-H	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
WATER & SEWER	Blockages, contamination, interruption to service, access to fittings, confined space access	L	M	L-M	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
WALLS & FENCING	Risk of falls, unauthorised access from persons and animals, structural failure	M	M	M	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
MAINTENANCE PHASE							
ROADS & PATHWAYS	All as for construction and operation phases					Asset Owner	
STORWATER / FLOODING	All as for construction and operation phases					Asset Owner	
WATER & SEWER	All as for construction and operation phases					Asset Owner	
WALLS & FENCING	All as for construction and operation phases					Asset Owner	
REFURBISHMENT PHASE							
ROADS & PATHWAYS	All as for construction and operation phases					Asset Owner	
STORWATER / FLOODING	All as for construction and operation phases					Asset Owner	
WATER & SEWER	All as for construction and operation phases					Asset Owner	
WALLS & FENCING	All as for construction and operation phases					Asset Owner	
DEMOLITION PHASE							
ROADS & PATHWAYS	All as for construction and operation phases					Asset Owner	
STORWATER / FLOODING	All as for construction and operation phases					Asset Owner	
WATER & SEWER	All as for construction and operation phases					Asset Owner	
WALLS & FENCING	All as for construction and operation phases					Asset Owner	

FOR APPROVAL

POI POI STREET,  
BAMAGA QLD 4876

FOR

**LACKON**

**PROJECT MANAGEMENT | CONSTRUCTION MANAGEMENT**  
Gold Coast Office: unit 3, 8 Centre View, Biggera Waters QLD 4216  
**Bundaberg Office:** 206 Quay Street, Bundaberg QLD 4670  
Lackon Pty Ltd - ABN: 67 635 594 571  
Ph: (07) 5510 8028

**A1** ORIGINAL SIZE BEFORE REDUCTION

A	ORIGINAL ISSUE	23.10.2024
VER.	DESCRIPTION	DATE

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Figured dimensions take precedence over scale. Do not scale reduced size drawings. Verify dimensions prior to commencing any on-site or off-site works or fabrication.



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**Coote Burchills Engineering Pty Ltd**  
ABN 76 166 942 365

PROJECT:

POI POI STREET, BAMAGA

DRAWING TITLE :

## HAZARD RISK REGISTER - DESIGN RISKS

DEVEL. APPLIC. No. : -		DATE : 23.10.2024
PROJECT LEADER : HARRISON LISTER		
DESIGNER : TG		
DRAFTSPERSON : HN		
CHECKED : RYAN SABA		
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365		
SCALE : AS NOTED	DATUM : AHD	FULL SIZE : A1
PROJECT No.: BE240177	DRAWING No. : C900	VERSION: A



# BAMAGA; POI POI STREET

## PRESSURE SEWERAGE SYSTEM: STREET MAINS

### INSTALLATION NOTES

#### GENERAL

ALL EQUIPMENT, MATERIALS AND CONSTRUCTION CARRIED OUT IN RESPECT TO THIS PROJECT SHALL BE BASED ON AUSTRALIAN STANDARDS, WSAA CODES OF PRACTICE, WORK HEALTH AND SAFETY ACTS AND REGULATIONS, AND THE STANDARDS OF THE PRINCIPAL. THE FOLLOWING LIST OF ACTS, CODES, REGULATIONS, ETC., APPLIES TO THE PROJECT AS A WHOLE. THE LIST IS NOT EXHAUSTIVE AND RELEVANT DOCUMENTATION IS NOT NECESSARILY LIMITED TO THE FOLLOWING.

- AUSTRALIAN STANDARDS AND RELEVANT CODES OF PRACTICE
- WSA 07-2007-PRESSURE SEWER CODE OF AUSTRALIA

ALL PIPE DIMENSIONS ARE EXTERNAL DIAMETERS UNLESS OTHERWISE SPECIFIED. PIPEWORK IS TO BE INSTALLED SO AS TO AVOID CONFLICT WITH OTHER WORKS. ALL BENDS, OFFSETS AND FITTINGS REQUIRED TO ACHIEVE THIS, ARE NOT SHOWN ON THE DESIGN DRAWINGS HOWEVER ARE DEEMED TO BE INCLUDED IN THE CONTRACT. ALL PIPEWORK, FITTINGS AND OTHER GENERAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

POLYETHYLENE PIPES ARE TO BE PE100, PN16 AND FITTINGS SHALL BE PN16, BLACK WITH CREAM STRIPE (TO BE APPROVED BY COUNCIL). ALL PE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH CURRENT AS/NZS 4130 - POLYETHYLENE PIPES FOR PRESSURE APPLICATIONS. ALL PE FITTINGS FOR POLYETHYLENE PIPES SHALL BE MANUFACTURED IN ACCORDANCE WITH CURRENT AS/NZS 4129 (INT) - FITTINGS FOR POLYETHYLENE PIPES FOR PRESSURE APPLICATIONS. INSTALLATION SHALL BE IN ACCORDANCE WITH CURRENT AS/NZS 2033 - INSTALLATION OF POLYETHYLENE PIPE SYSTEMS AND IN ACCORDANCE WITH CURRENT AS/NZS2566.2 - BURIED FLEXIBLE PIPELINES - INSTALLATION. REFERENCE SHALL ALSO BE MADE TO TECHNICAL INSTALLATION MANUALS PRODUCED BY VINIDEX AND GEORG FISCHER.

PRESSURE SEWER MAIN LOCATION IN VERGE SHALL BE AS PER COUNCIL REQUIREMENTS. COORDINATE PIPEWORK LAYOUT WITH NSW PUBLIC WORKS AND NPARC.

#### LOCATION OF PIPEWORK

NO ACTIVE (POTHOLING OR GPR ETC) INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION WITHIN THE SERVICE AREA.

ALL EXISTING BURIED UNDERGROUND UTILITIES SERVICES MUST BE CAREFULLY LOCATED BY HAND EXCAVATION AND/OR PROFESSIONAL LOCATOR SERVICES BEFORE COMMENCEMENT OF EXCAVATION WORKS. CONTACT DIAL-BEFORE-YOU-DIG ON 1100 TO LOCATE BURIED SERVICES. ALL CONSTRUCTION PLANT AND EXCAVATION WORKS NEAR BURIED SERVICES MUST COMPLY.

#### PRESSURE SEWER UNIT INSTALLATION AND COMMISSIONING

TO BE IN ACCORDANCE WITH PRODUCT MANUFACTURERS INSTALLATION AND COMMISSIONING INSTRUCTIONS. ALL VALVES AND FLUSHING POINTS ARE TO BE LOCATED IN THE VERGE & NOT EXPOSED TO VEHICLE WHEEL LOADS.

ALL PRESSURE SEWER UNITS SHOWN IN INDICATIVE LOCATION. REFER TO PROPERTY WORKS PLANS FOR BOUNDARY KIT AND PSU LOCATIONS.

#### CLEARANCES BETWEEN PIPELINES & UNDERGROUND SERVICES

Utility (Existing Service)	Minimum horizontal clearance	Minimum vertical clearance <sup>(a)</sup>
	mm	
	≤DN 200	EXISTING SERVICES
Water Mains	1000	500
Telecommunications conduits and cables	300 <sup>(2)</sup>	150
Electrical conduits and cables	500	225
Drains	300 <sup>(2)</sup>	150
Sewers	300 <sup>(2)</sup>	500
Kerbs	150	150 (where possible) <sup>(3)</sup>

#### NOTES:

- VERTICAL CLEARANCES APPLY WHEN PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER 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.
- CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2 m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DESTABILISED IN THE PROCESS.
- CLEARANCE FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB.

#### DRAWING LIST

241011-S001- COVER SHEET NOTES AND KEY PLAN

241011-S101- BAMAGA PRESSURE SEWER MASTER PLAN

241011-S201- ON PROPERTY DETAIL SHEET FOR INFORMATION

ST301 - STREET MAIN DETAILS SHEET 1; GENERAL DETAIL, UNDER ROAD BORE

ST302 - STREET MAIN DETAIL SHEET 2; BOUNDARY KIT, TRENCH DETAILS

ST303 - STREET MAIN DETAIL SHEET 3; FLUSHING POINT, SEWER CONNECTION

#### NOTES:

- EXISTING SERVICES TO BE POTHOLED AND LOCATED BEFORE CONSTRUCTION.
- PRESSURE SEWER SETOUT TO BE COORDINATED WITH COUNCIL.

**LOCATE ALL EXISTING SERVICES  
AND POTHOLE BEFORE  
UNDERTAKING ANY WORKS.**

### LEGEND

WR

WATER MAIN

S

SEWER

E

ELECTRICAL

TR

COMMS

KERB

/ - / - / -

FENCE

MAJOR CONTOUR

MINOR CONTOUR

UTILITIES SHOWN ON THIS PLAN (e.g. WATER, GAS, COMMUNICATIONS & POWER) ARE DIAGRAMMATIC ONLY. ACCURATE LOCATION OF ALL AFFECTED SERVICES IS REQUIRED PRIOR TO CONSTRUCTION.

AV

AIR VALVE

IV

ISOLATION VALVE

IVNC

ISOLATION VALVE / NORMALLY CLOSED

FP

FP : FLUSHING POINT

ZONE & PIPE SIZE CHANGE

ZONE CHANGE; FLOW DIRECTION

PIPELINES

PRESSURE SEWER MAIN

ROAD CROSSING IN CONDUIT

INSTALL USING HDB CONSTRUCTION METHODS

PRESSURE SEWER PROPERTY LINE

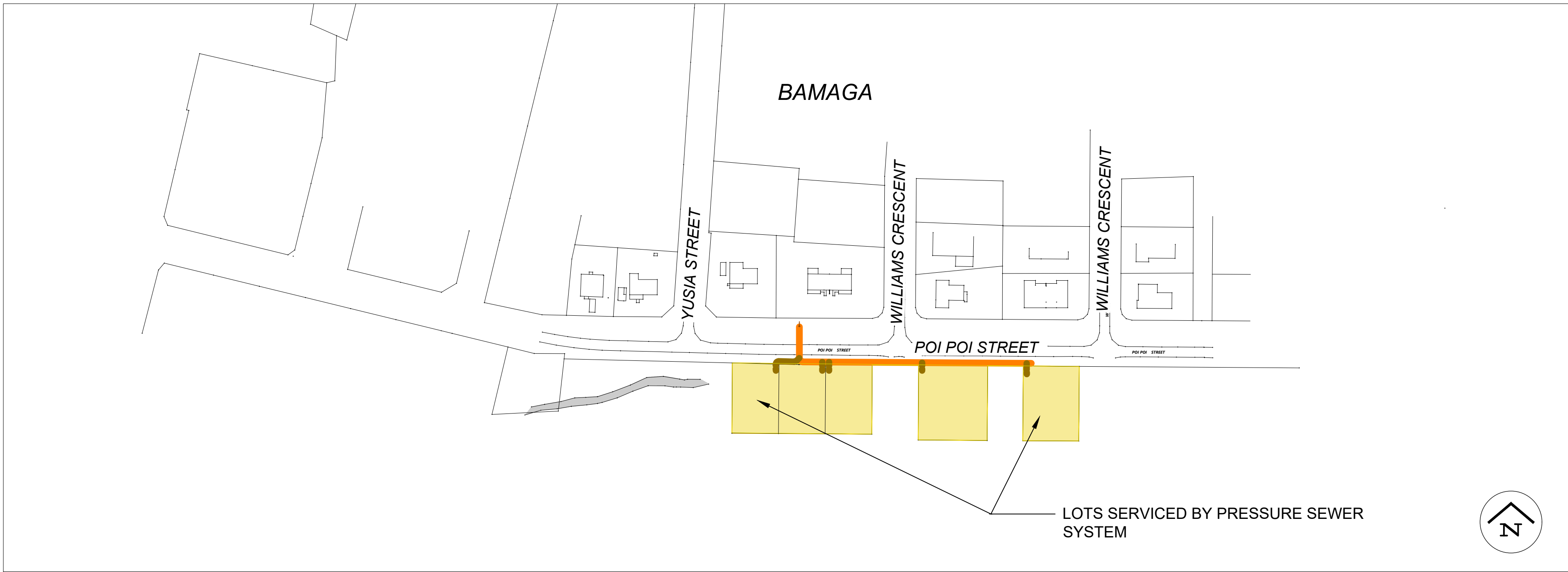
NOTATIONS

PSU

PRESSURE SEWER UNIT

BK

BOUNDARY KIT



### LOCATION PLAN / PRESSURE SEWER SERVICE AREA

SIZE  
A1

Plotted by: Chris Date: 25/10/2024 4:27:28 PM Cad File No: J:\Design\700-Projects\702-Current projects\241011 Bamaga\720-Design\721-Drawings\730-Street mains\241011 - S001 Bamaga Cover Sheet.dwg

B	ISSUE FOR APPROVAL (SUITABLE FOR CONSTRUCTION ONCE APPROVED)	CR	25/10/24		
A	FOR APPROVAL	CR	18/10/24		
P	PRELIMINARY	CR	14/10/24		
REV	DESCRIPTION	BY	DATE		

DESIGN BY:



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Peakhurst NSW 2210  
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DRAWN	SR	DATE	18/10/24
CHECKED	CR	DATE	18/10/24
APPROVED	SW	DATE	18/10/24

CLIENT:



PROJECT: BAMAGA  
PRESSURE SEWER SYSTEM

TITLE:

PRESSURE SEWER  
COVER SHEET  
NOTES AND KEY PLAN

DRG No.

241011-S001

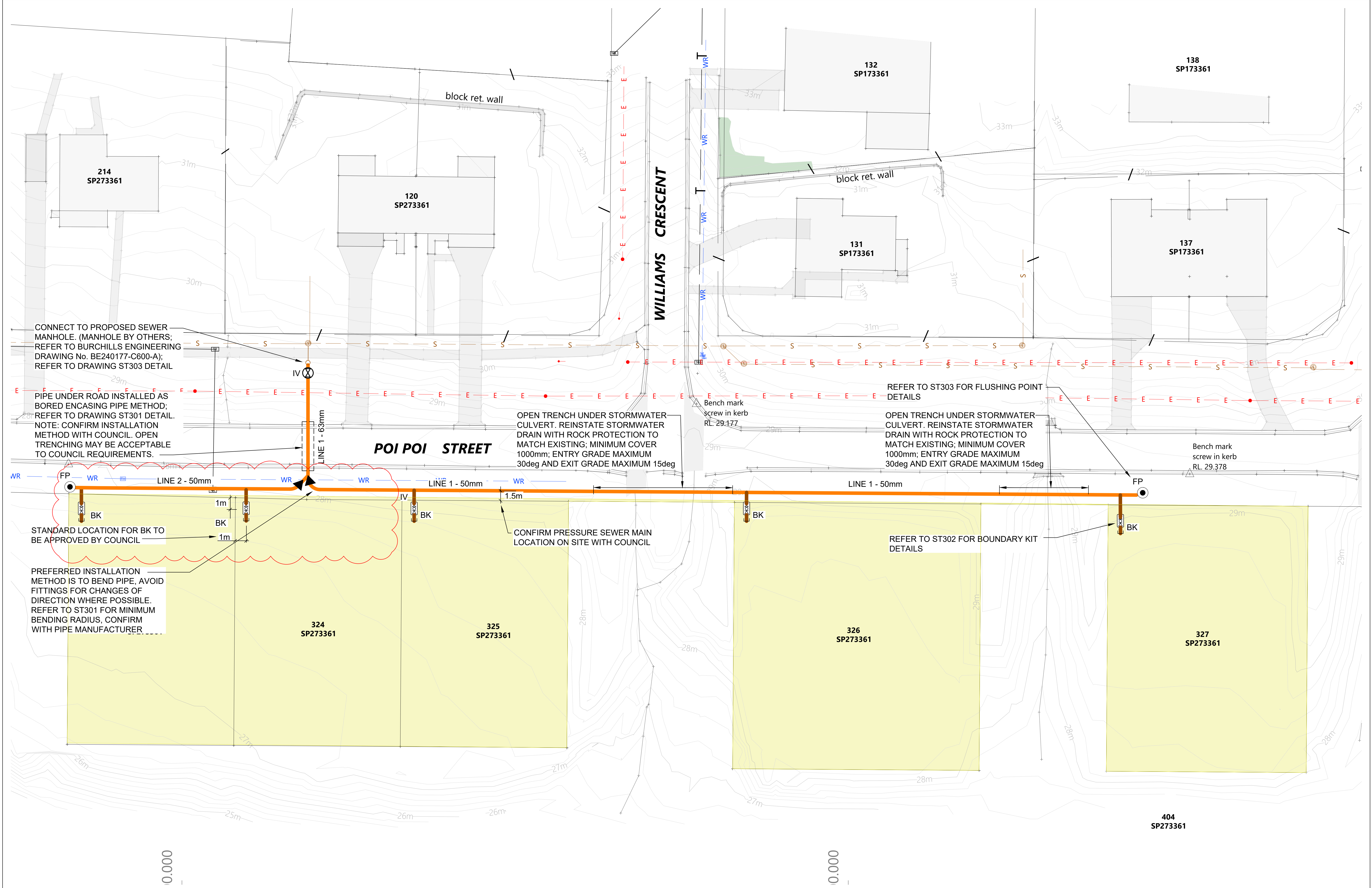
REV

B

Craig Kennedy  
BE(Civil), NER  
(74405), RPEQ  
(11156)

Digitally signed by  
Craig Kennedy  
BE(Civil), NER (74405),  
RPEQ (11156)  
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REV	DESCRIPTION	BY	DATE
C	BOUNDARY KITS RELOCATED	CR	21/02/25
B	ISSUE FOR APPROVAL (SUITABLE FOR CONSTRUCTION ONCE APPROVED)	CR	25/10/24
A	FOR APPROVAL	CR	18/10/24
P	PRELIMINARY	CR	14/10/24

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www.pssolutions.net.au

DRAWN	SR	DATE	18/10/24
CHECKED	CR	DATE	18/10/24
APPROVED	SW	DATE	18/10/24

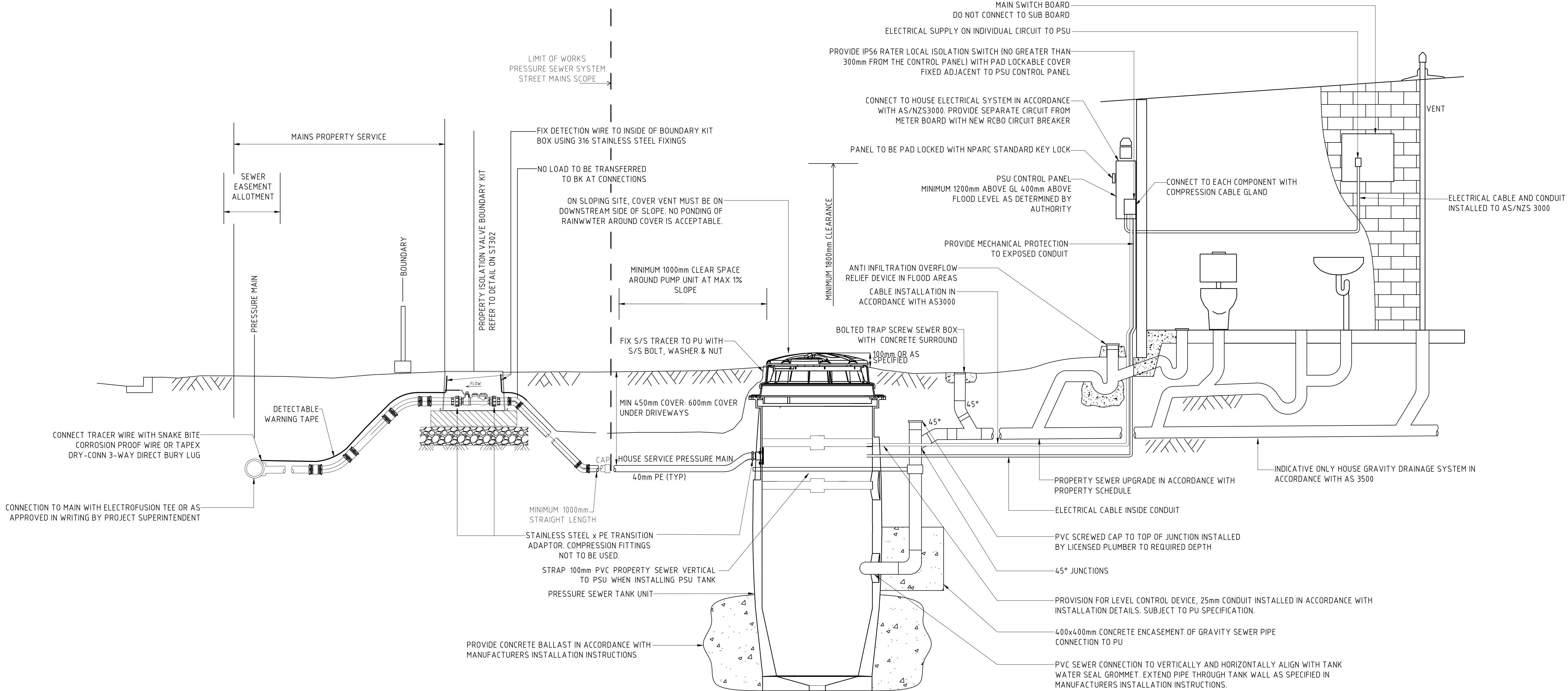
SCALE 1200 AT A1

CLIENT:

PROJECT: BAMAGA PRESSURE SEWER SYSTEM

TITLE:	DRG No.	REV
BAMAGA PRESSURE SEWER PLAN	230620-S101	B





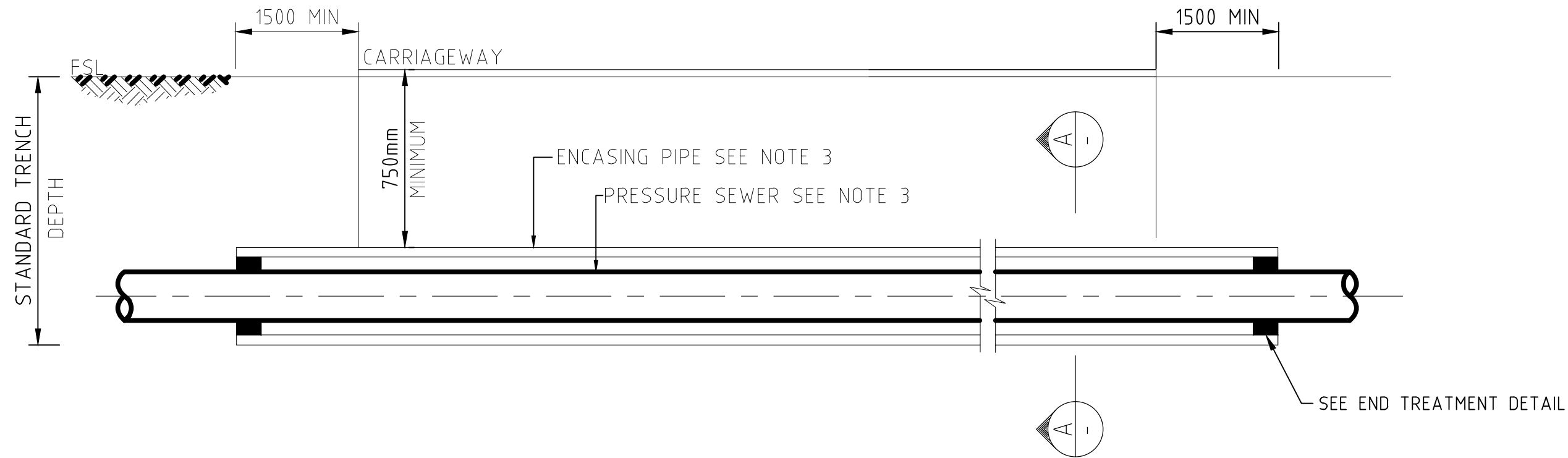
TYPICAL PROPERTY CONNECTION DETAIL

- NOTES:
1. PRESSURE SEWER UNIT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURES CURRENT INSTALLATION INSTRUCTIONS.
  2. PUMP CABLE OR ELECTRICAL SUPPLY MUST BE CONNECTED USING COMPRESSION CABLE GLAND FITTINGS. CONNECTION THROUGH BACK OF PANEL NOT PERMISSIBLE.
  3. PROVIDE WAE DIAGRAM / SKETCH CLEARLY SHOWING ALL UNDERGROUND WIRING SYSTEMS ON THE PROPERTY.
  4. ALL PROPERTY SEWER DRAINAGE TO PASS HYDROSTATIC TESTED AND SIGNED OFF BYCOUNCIL CONTRACT SUPERINTENDENT.
  5. ALL ON LOT PROPERTY WORKS TO BE IN ACCORDANCE WITH PROJECT TECHNICAL SPECIFICATIONS, PROPERTY DESIGN PLANS AND SCHEDULES.
  6. EACH PRESSURE SEWER UNIT (PSU) TO BE FULLY TESTED, COMMISSIONED AND WITNESSED BY THE CONTRACT SUPERINTENDENT.
  7. PUMP OVER PRESSURE SHUT-OFF TO BE SET AT 80M/H.

RECOMMENDED ON PROPERTY PUMPS

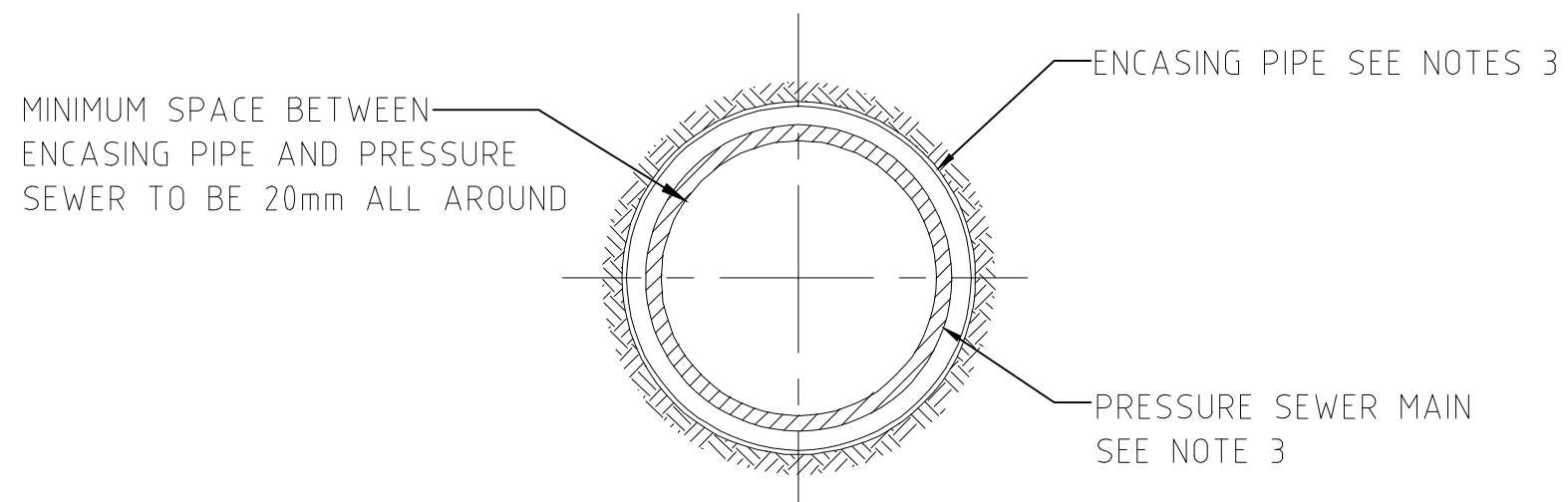
- RECOMMENDED PUMPS ARE SIMPLEX:
- AQUATEC OGT
  - EONE EXTREME
  - MONO INVISIQ
- ALTERNATE PUMPS ARE TO BE SUBMITTED TO COUNCIL FOR APPROVAL BEFORE INSTALLATION





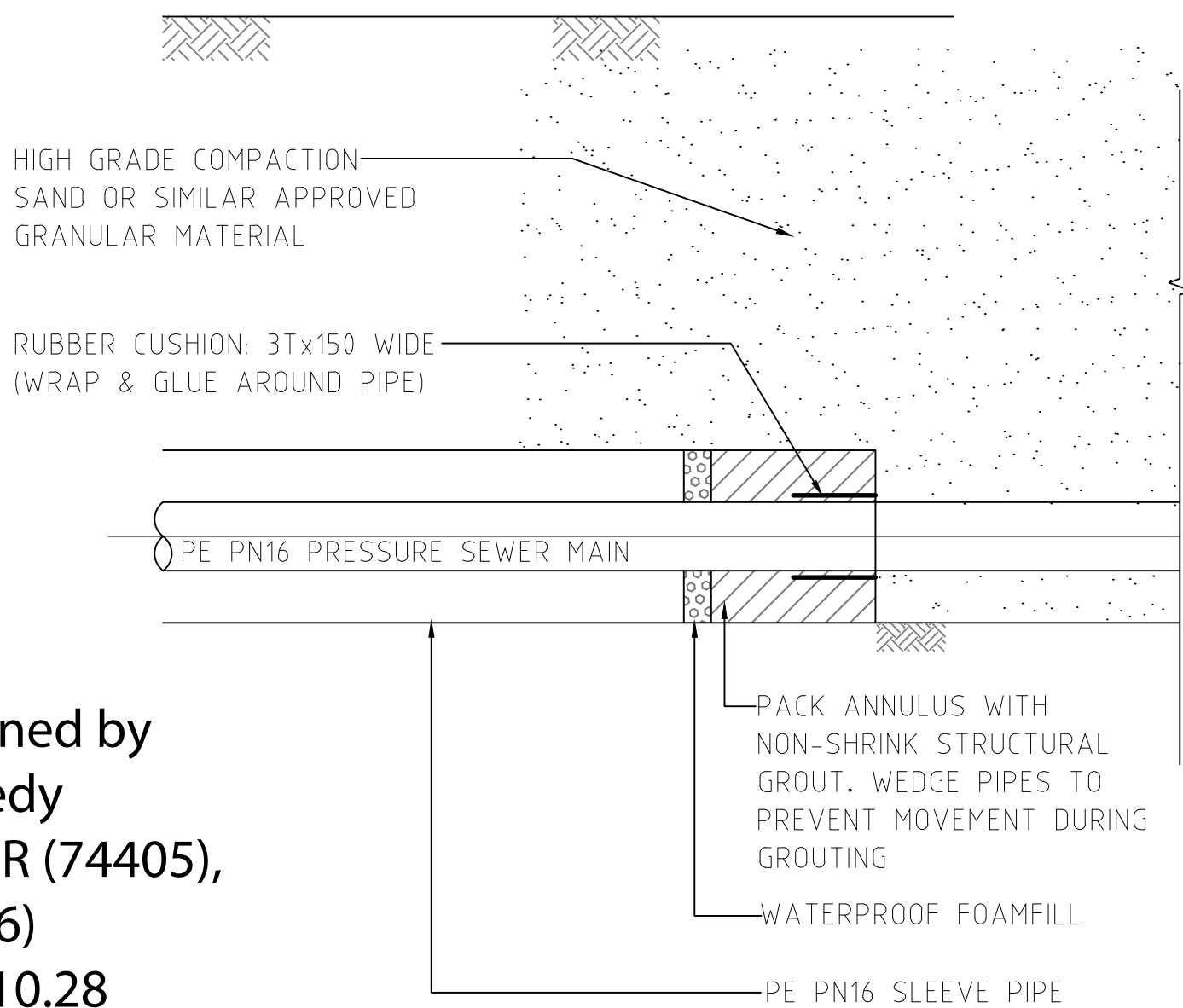
ROAD CROSSING - BORED ENCASING PIPE METHOD

- NOTES:
1. CONFIRM INSTLLATION METHOD WITH COUNCIL BEFORE CONSTRUCTION; OPEN TRENCH MAY BE AN ACCEPTABLE ALTERNATE METHOD.
  2. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
  3. ADOPT METHODS OF INSTALLATION, AS SHOWN, FOR ALL STATE ROADS, MAIN THOROUGHFARES AND OTHER ROADS WHERE REQUIRED BY COUNCIL. PROVIDE MINIMUM COVER OF 750 UNDER FINISHED ROAD LEVEL.
  4. BORED ENCASING PIPE METHOD  
HORIZONTAL BORING  
ENCASING PIPE  
- POLYETHYLENE PE100 PN16 TO WSA PS-207S  
PRESSURE SEWER  
- POLYETHYLENE PE100 PN16 TO WSA PS-207S



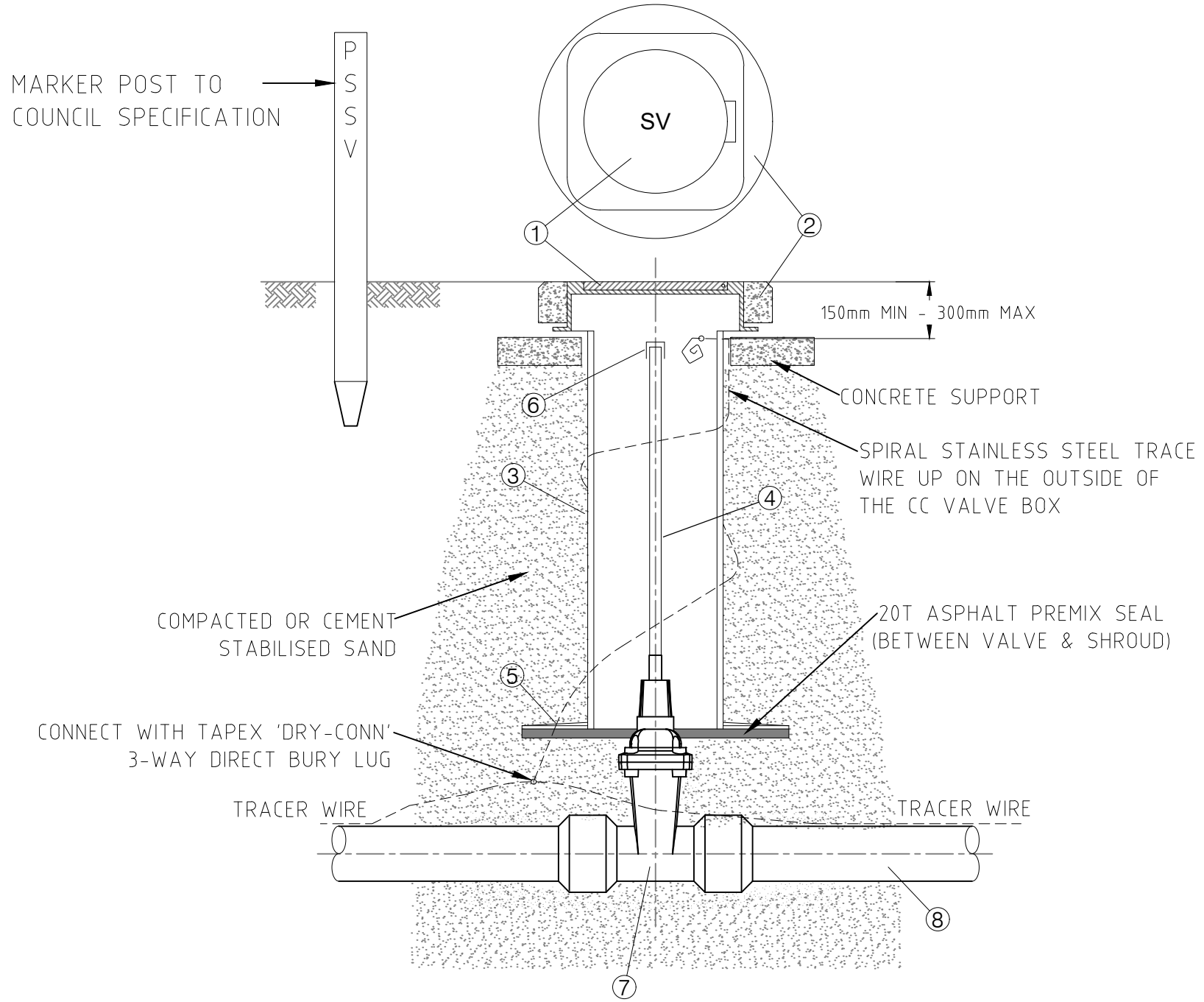
SECTION A  
NTS

BORED ENCASING PIPE & PRESSURE SEWER MAIN



BORED PIPE: END TREATMENT DETAIL

FITTING SCHEDULE	
ITEM	DESCRIPTION
1	D.I. VALVE COVER
2	CONCRETE OR RECYCLED PLASTIC SURROUND - CREAM COLOUR
3	SPINDLE PROTECTION 150 DWV PVC PIPE SN4 (OR 225mm ALTERNATIVE)
4	VALVE SPINDLE EXTENSION (600-900) AS PER VALVE MANUFACTURER, WHERE REQUIRED TOP OF SPINDLE TO BE 12mm SQUARE TO SUIT FERRULE KEY - CREAM COLOUR
5	SHROUD SUPPORT FLANGE
6	VALVE SPINDLE CAP TO SUIT WATER COMPANY PREFERENCE. REFER TO WATER COMPANIES PRODUCT CATALOGUE FOR FURTHER DETAILS.
7	RESILIENT SEATED GATE VALVE PN 16 C/W PE STUB ENDS. AVK 36/81 OR SIMILAR CLOCKWISE CLOSING
8	PE PIPE 63Øx50Ø REDUCERS REQUIRED TO CONNECT TO 50Ø PRESSURE SEWER MAIN

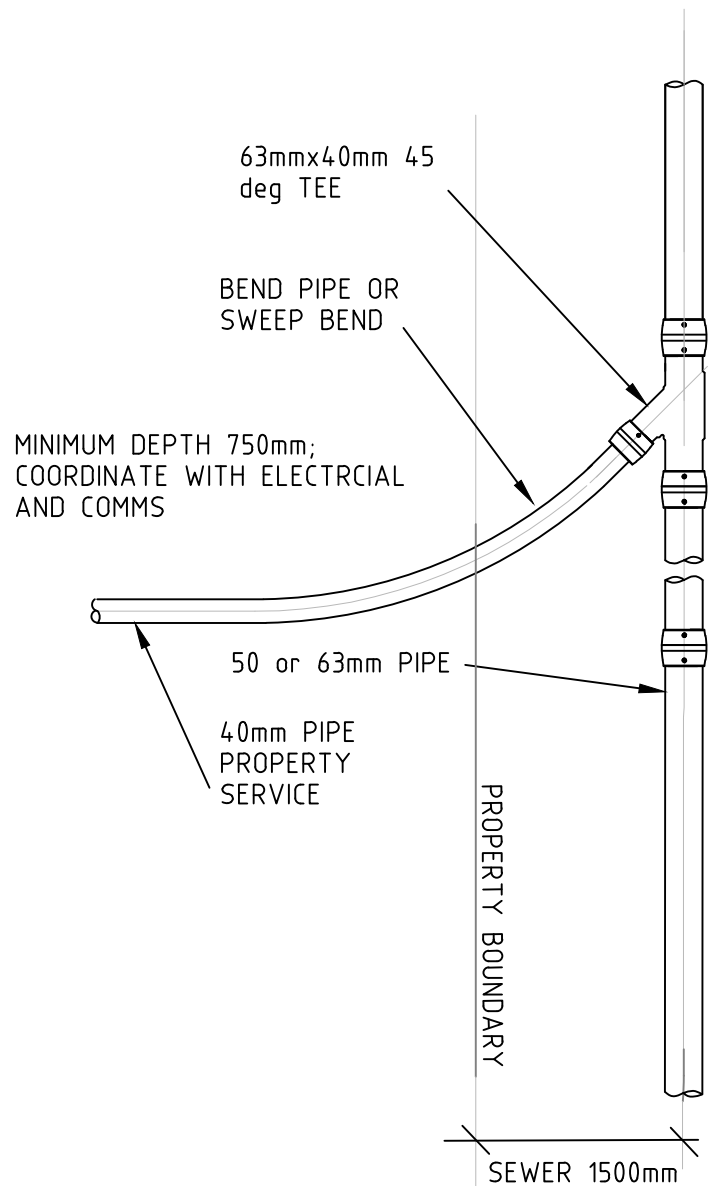


TYPICAL PE ENDED RESILIENT SEATED  
ISOLATION GATE VALVE FOR 50Ø, 63Ø, 110Ø & 125Ø PIPE

MINIMUM RADIUS OF BENDS

NOTE: ALL BENDS TO COMPLY WITH FOLLOWING MINIMUM RADIUS SPECIFICATION. CONFIRM WITH PIPE MANUFACTURER

OD PIPE SIZE	MINIMUM FITTING BEND RADIUS	SITE FORMED BEND RADIUS (25xPIPE OD)
40mm	160mm	1000mm
50mm	175mm	1250mm
63mm	225mm	1575mm
75mm	305mm	1875mm
90mm	305mm	2250mm
110mm	380mm	2750mm
125mm	380mm	3125mm

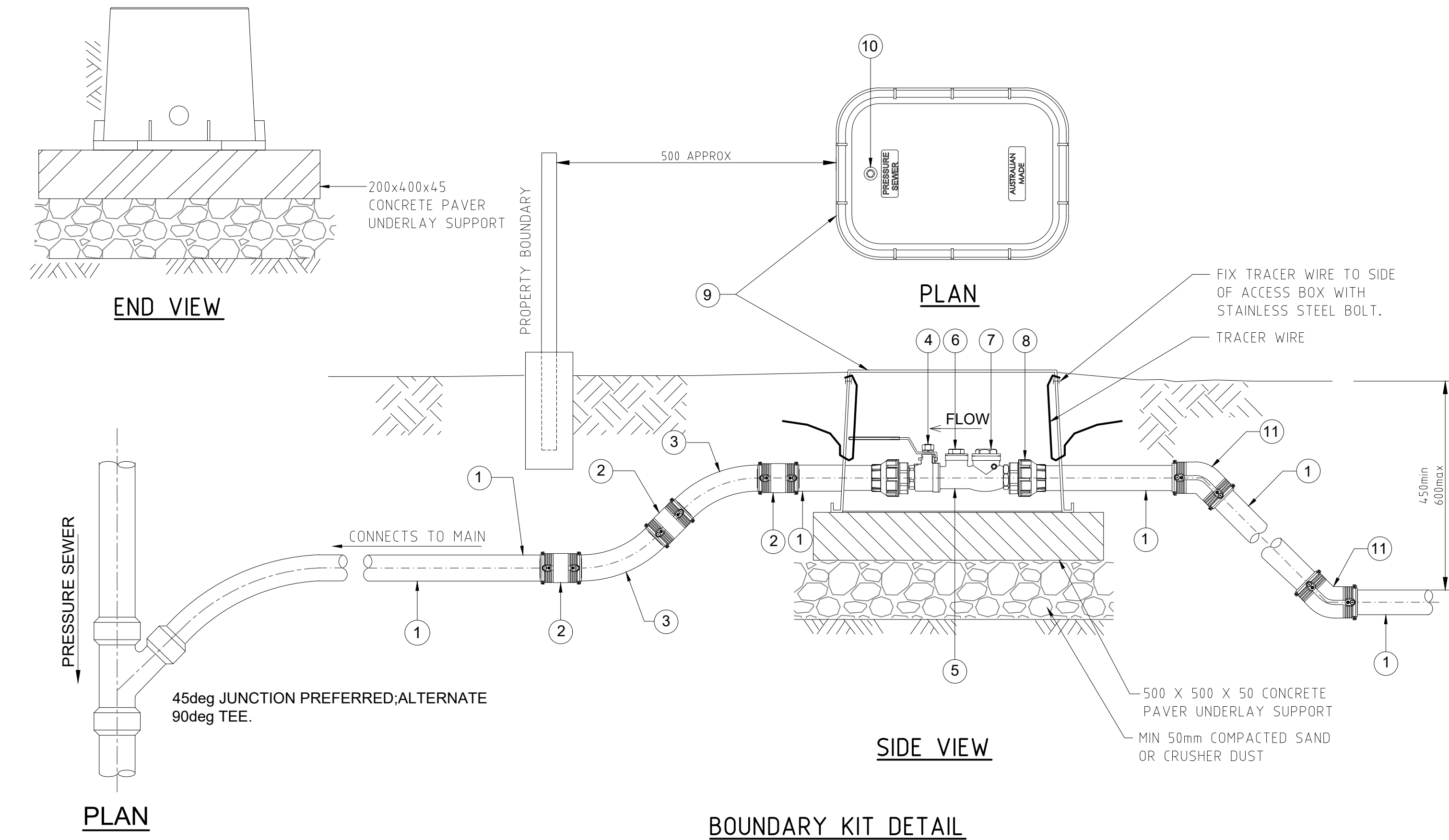


PLAN: PREFERRED ARRANGEMENT  
PROPERTY CONNECTION

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(11156)

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BE(Civil), NER (74405),  
RPEQ (11156)  
Date: 2024.10.28  
11:31:21 +11'00'





PIPE AND VALVE MATERIAL SCHEDULE

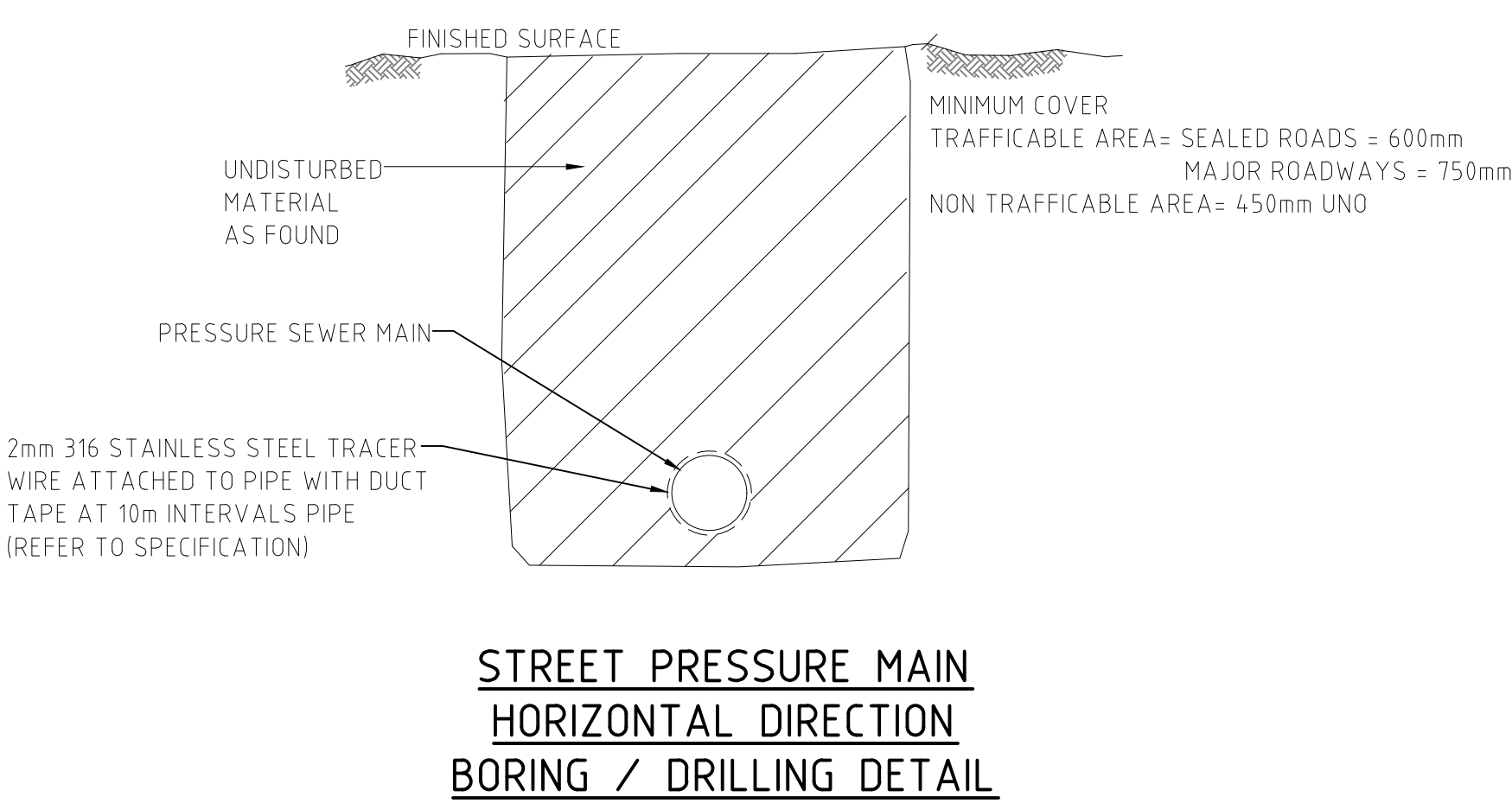
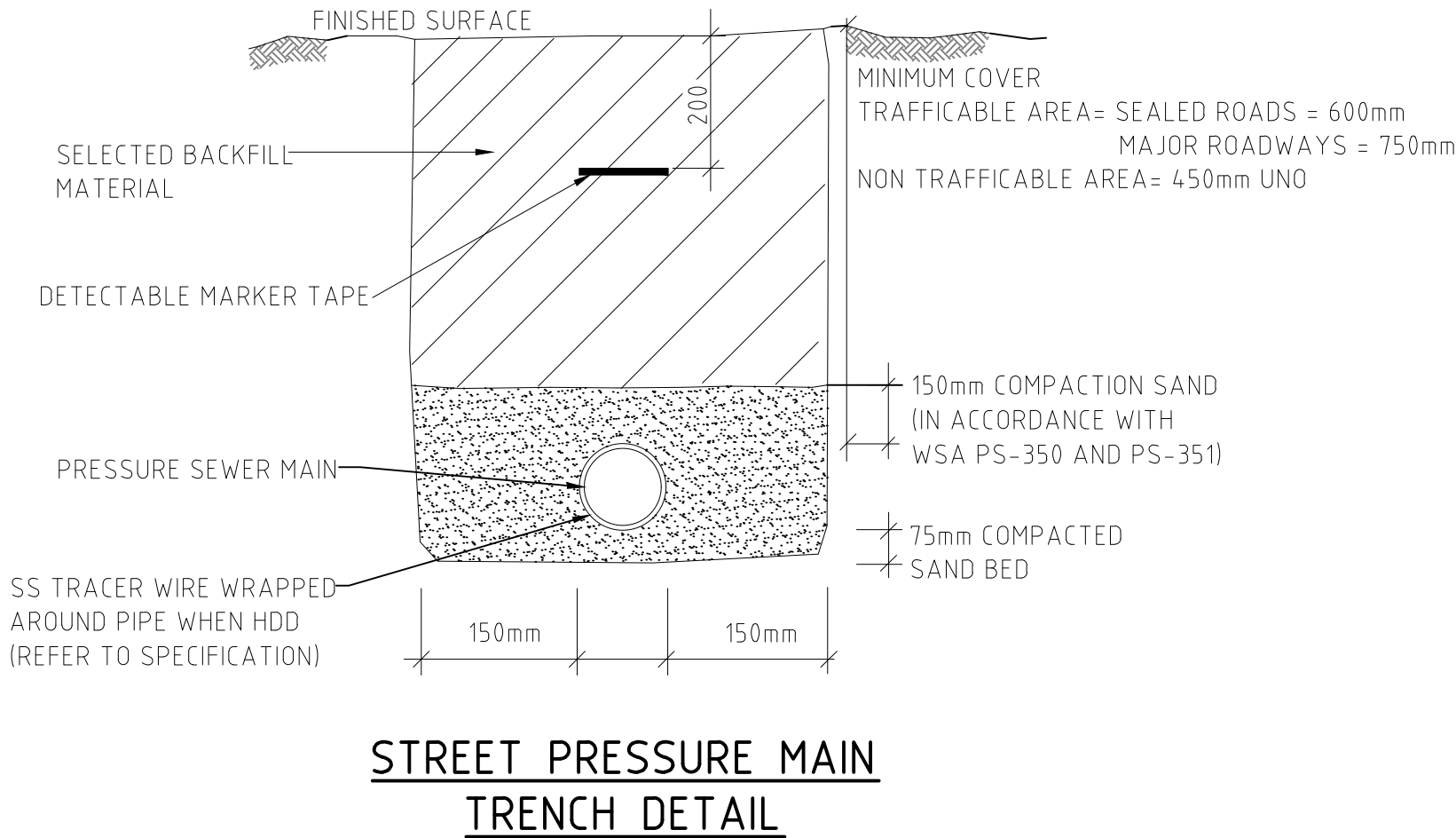
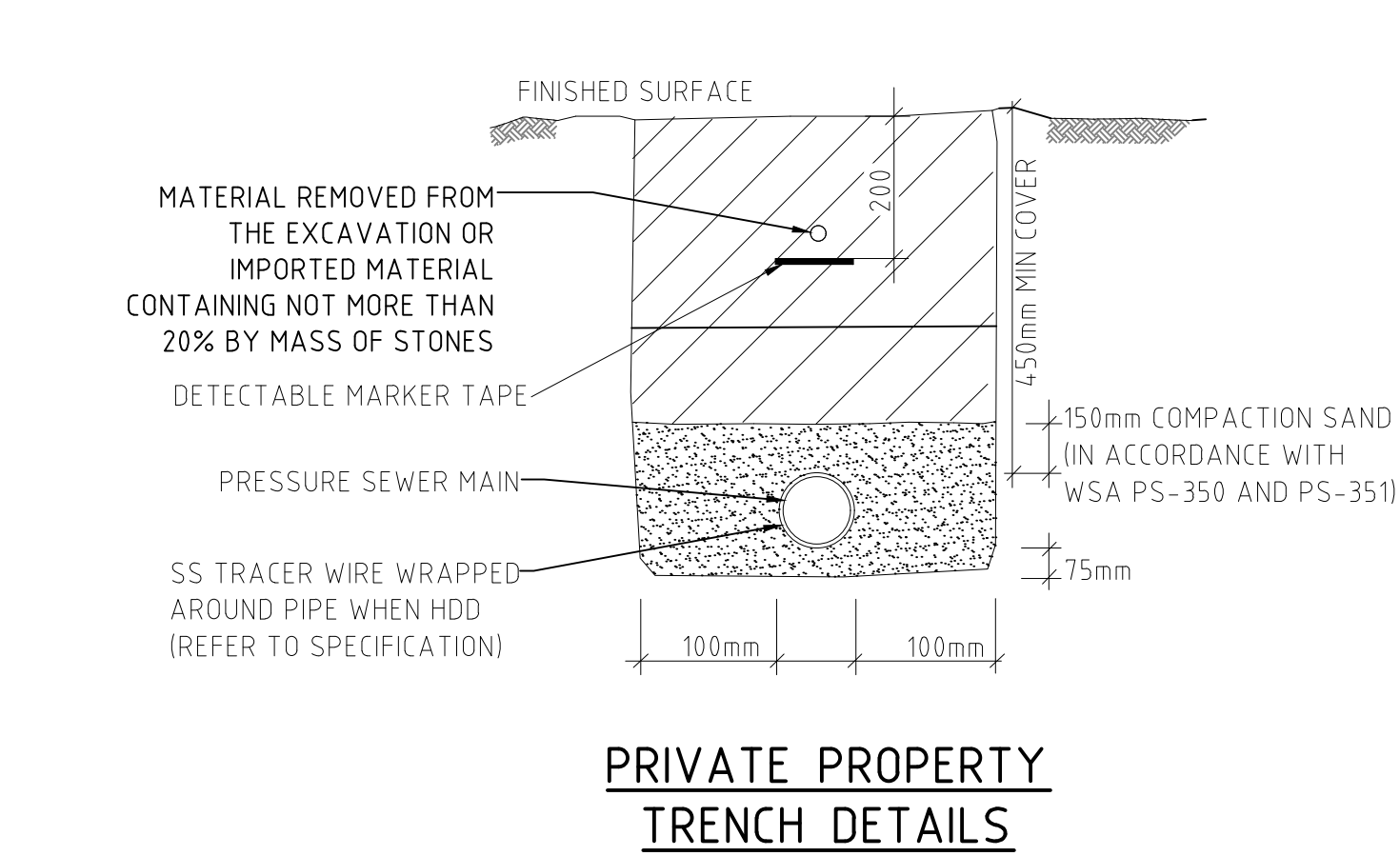
ITEM	DESCRIPTION	QTY	MATERIAL	COMMENTS
1	40mm PIPE	-	PE100, PN16	BLACK, CREAM STRIPE
2	40mm COUPLER	3	PE100, PN16	
3	40mm 45° LONG RADIUS BENDS	2	PE100, PN16	OFFSET TO MAIN DEPTH
4	32mm GR316 S/S BALL VALVE, FULL BORE	1	316 S/S	
5	32mm GR316 S/S PUMP OUT TEE	1	316 S/S	
6	32mm GR316 S/S PLUG	1	316 S/S	
7	32mm GR316 S/S SWING CHECK VALVE, FULL BORE	1	316 S/S	
8	ELECTROFUSION WELDED JOINT	1	PE100, 316 S/S	
9	POLYETHYLENE ONE PIECE PIT WITH COVER	1	POLYPROPYLENE	FITTED WITH LOCKABLE LID. SUITABLE FOR CLASS A LOADING
10	GR316 S/S BOLT	1	316 S/S	
11	40mm EF 45° ELBOW	2	PE100, PN16	OFFSET TO MAIN DEPTH

BOUNDARY KIT NOTES:

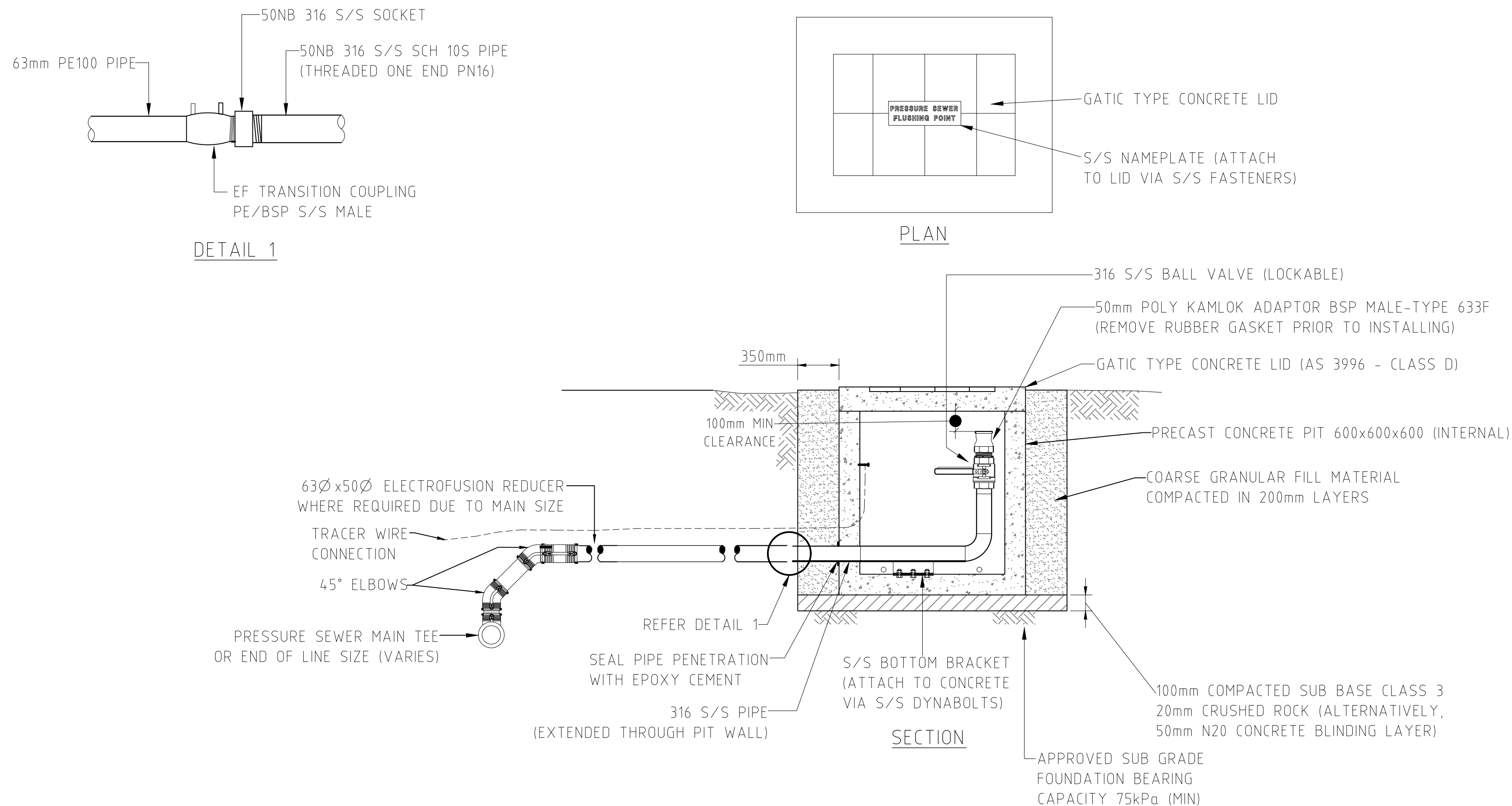
- USE ONLY APPROVED COMPONENTS
- ENSURE THAT LID OF BOUNDARY KIT IS MARKED AS SHOWN. WHERE THE WARNING/NAME PLATE IS NOT CAST OR MOULDED INTO THE LID AFFIX AN ENGRAVED SS NAMEPLATE USING SS FASTENERS
- PREPARE BEDDING UNDER BOUNDARY KIT TO SPECIFICATIONS.
- INSTALL BOUNDARY KIT 10mm PROUD OF SURFACE SO THAT FSL CAN BE GRADED AWAY FROM LID.
- TEST ASSEMBLY AND CONNECTING PRESSURE SEWERS HYDROSTATICALLY AFTER INSTALLATION IN ACCORDANCE WITH PRESSURE SEWER CODE WSA-07.
- ALL PRESSURE PIPEWORK ITEMS TO BE PE100 PN 16.
- ALL STAINLESS STEEL VALVES & FITTINGS TO BE GRADE 316, MIN PN16.
- ALL PE JOINTS TO BE ELECTROFUSION WELDED
- PIPE FROM STREET MAINS TO BOUNDARY KIT TO BE @ 90°
- CAST 'ONE-PIECE' BOUNDARY ASSEMBLIES MAY BE USED IF APPROVED BY COUNCIL
- BOUNDARY KIT TO BE INSTALLED IN 'NON-TRAFFICABLE' AREA

Craig Kennedy  
BE(Civil), NER  
(74405), RPEQ  
(11156)

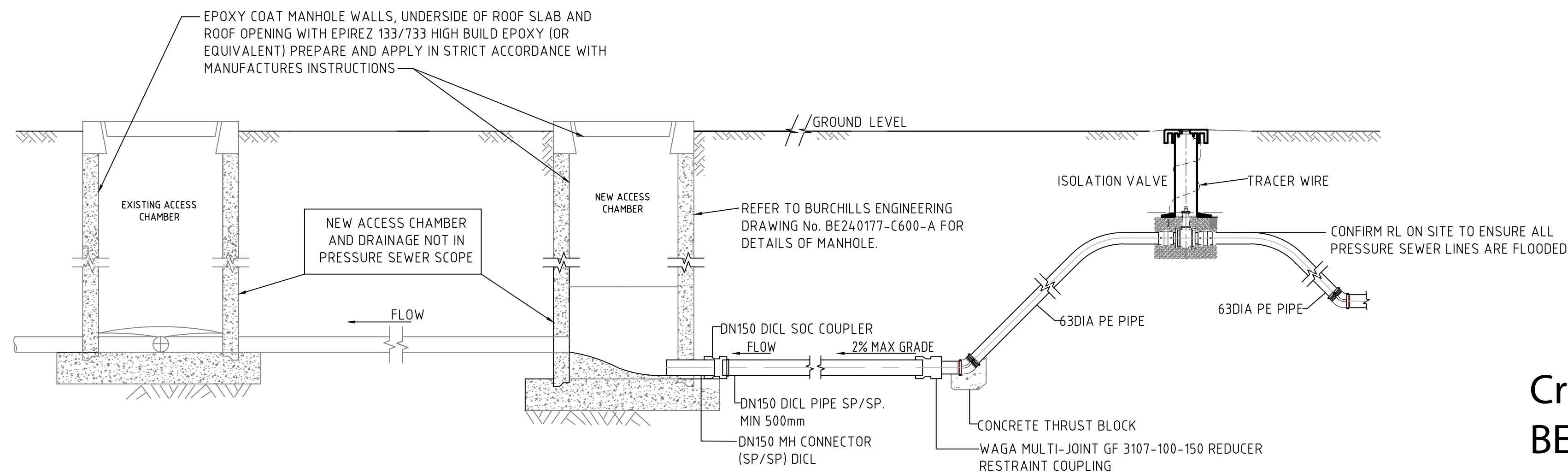
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BE(Civil), NER (74405),  
RPEQ (11156)  
Date: 2024.10.28  
11:29:20 +11'00'







**TYPE 2 INTERMEDIATE FLUSHING POINT IN CONCRETE - TO SUIT MAIN SIZES ≤125DIA TRAFFICABLE - HEAVY DUTY AS3996 CLASS D**



**PRESSURE SEWER OUTLET CONNECTION TO ACCESS CHAMBER**

**Craig Kennedy** Digitally signed by  
**BE(Civil), NER** BE(Civil), NER (74405),  
**(74405), RPEQ** RPEQ (11156)  
**(11156)** Date: 2024.10.28  
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