

240075(3.7-3.8)-WAC-003

PRESSURE SEWER NOTES:

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH 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 AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL 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 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
- ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH 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 AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm, WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER, POTABLE WATER AND 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 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE COORANBONG WATER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD 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. (i.e. 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 STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (≤ DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (> DN110) http://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 AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. 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 AND SHALL COMPLY WITH ALTOGETHER 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 ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ø25mm 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. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- THE CONSTRUCTOR SHALL PROVIDE COORANBONG WATER 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 AND CONFIRMATION IS PROVIDED BY THE COORANBONG WATER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- 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 AND APPROVAL FOR BACKFILLING GIVEN BY THE COORANBONG WATER 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/300mm LAYER OF FILL AT EACH ROAD CROSSING.
NON-TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
- BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000KPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

POTABLE WATER AND RECYCLED WATER NOTES:

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
- POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL 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 SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
- 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 POTABLE WATER AND RECYCLED WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm, WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- ALL POTABLE WATER MAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATER MAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
- MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 AND 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE COORANBONG WATER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE AND THE NEED FOR TRENCH DRAINAGE/BULKHEADS.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
- HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m 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 WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf DUAL SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf
- PROPERTY SERVICE CONNECTIONS SHALL BE FLUSHED AND LOCKED (BY THE COORANBONG WATER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
- SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (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 COORANBONG WATER 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 AND CONFIRMATION IS PROVIDED BY THE COORANBONG WATER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- 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 AND APPROVAL FOR BACKFILLING GIVEN BY THE COORANBONG WATER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):
TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
NON-TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.
PROPERTY SERVICES TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES. TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
- WHERE THE PIPE GRADE EXCEEDS 5%, TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/GRADE%. WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.

ALTOGETHER 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 CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
- MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
- SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm)		MINIMUM VERTICAL CLEARANCE (mm)
	NEW MAIN SIZE		
	≤ DN200	≥ DN200	
WATER MAINS > DN375	600	60	300
WATER MAINS < DN375	300 ^a	600	150
GAS MAINS	300 ^a	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300 ^a	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225 ^a
STORMWATER DRAINS	300 ^a	600	150 ^a
SEWERS (GRAVITY)	1000 ^a / 600	1000 ^a / 600	500 ^a
SEWERS (PRESSURE AND VACUUM)	600	600	300 ^a
KERBS	150	600 ^b	150 (WHERE POSSIBLE)

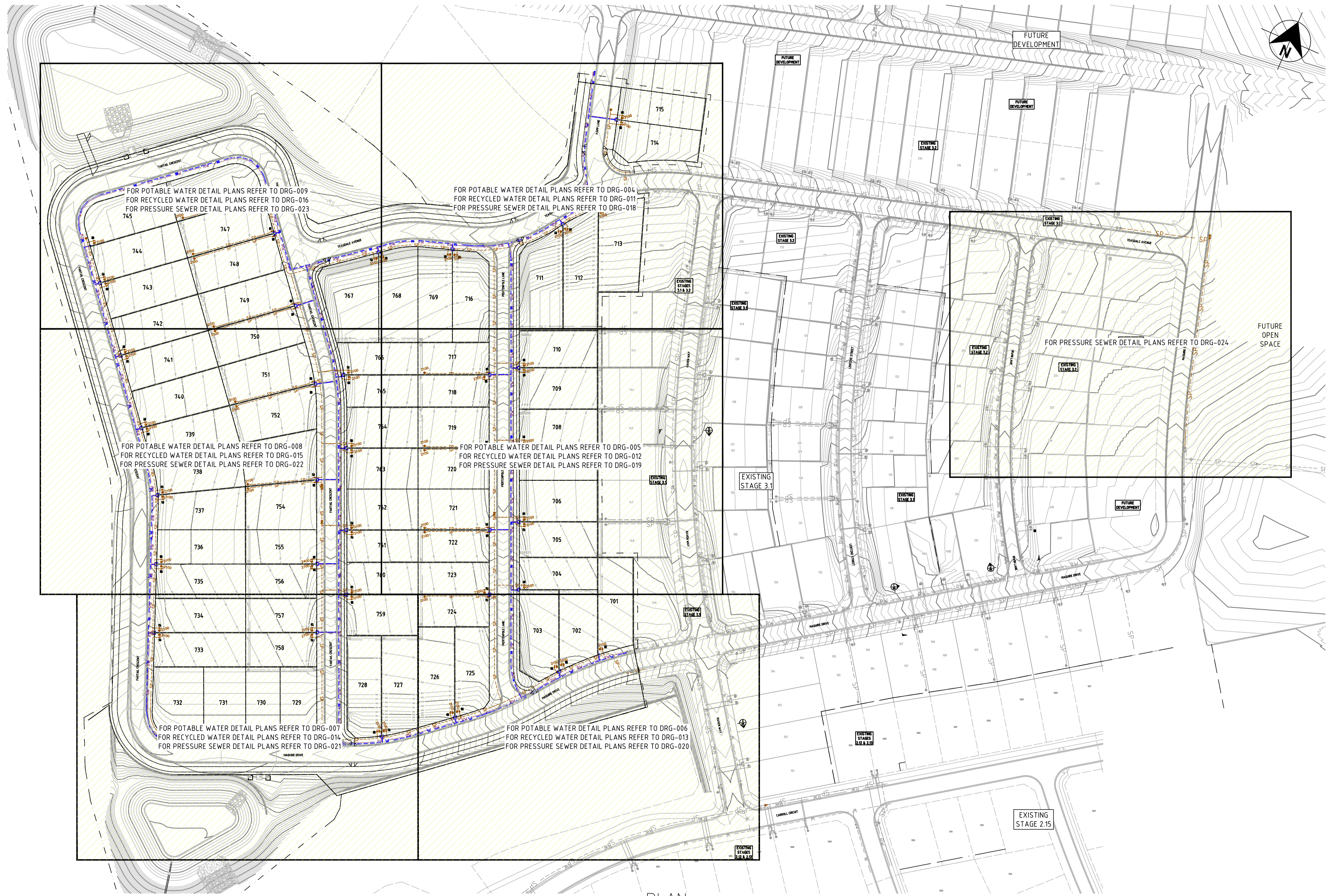
- NOTES:**
- VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL. THE PRESSURE SEWER SHOULD ALWAYS BE LOCATED BELOW THE WATER MAIN TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.
 - WATER MAINS INCLUDE MAINS 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 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDED THE STRUCTURE IS NOT BE-STABILISED IN THE PROCESS.
 - CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER/SEWER < DN 375, 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 WIRING TO BE PROVIDED.
 - WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE PROTECTION TREATMENT UOBT-FREE IN THE VICINITY OF THE SEWER.

SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE COORANBONG WATER REPRESENTATIVE IN WRITING FOR REVIEW & ACCEPTANCE PRIOR TO INSTALLATION.



AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.				
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.		<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>WORK AS CONSTRUCTED PROPOSED SUBDIVISION</p> <p>STAGE 3.7 WATAGAN PARK</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>GENERAL NOTES</p>	<p>239078(3.7)</p>	<p>- WAT -</p>	<p>002</p>	<p>43</p>				
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.													
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.													
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.													
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.													
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.													
DESIGN FILE N:\								SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239078(3.7)		DISCIPLINE - WAT -		NUMBER 002		REV. 43	



PLAN
SCALE 1:1000

AS CONSTRUCTED

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	0 10 20 30 40 A1 / A3 1:1000 / 1:2000
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

adw Johnson

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CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

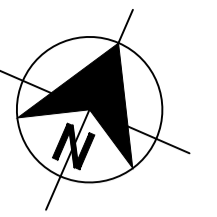
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.7)	- WAT -	003	43

240075(3.7-3.8)-WAC-101

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24-08-2022 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY: DARACON COMPANY: _____
NAME: _____ NAME: _____
SIGNED: _____ DATE: _____ SIGNED: _____ DATE: _____
REGISTERED SURVEYOR CONSTRUCTION MANAGER

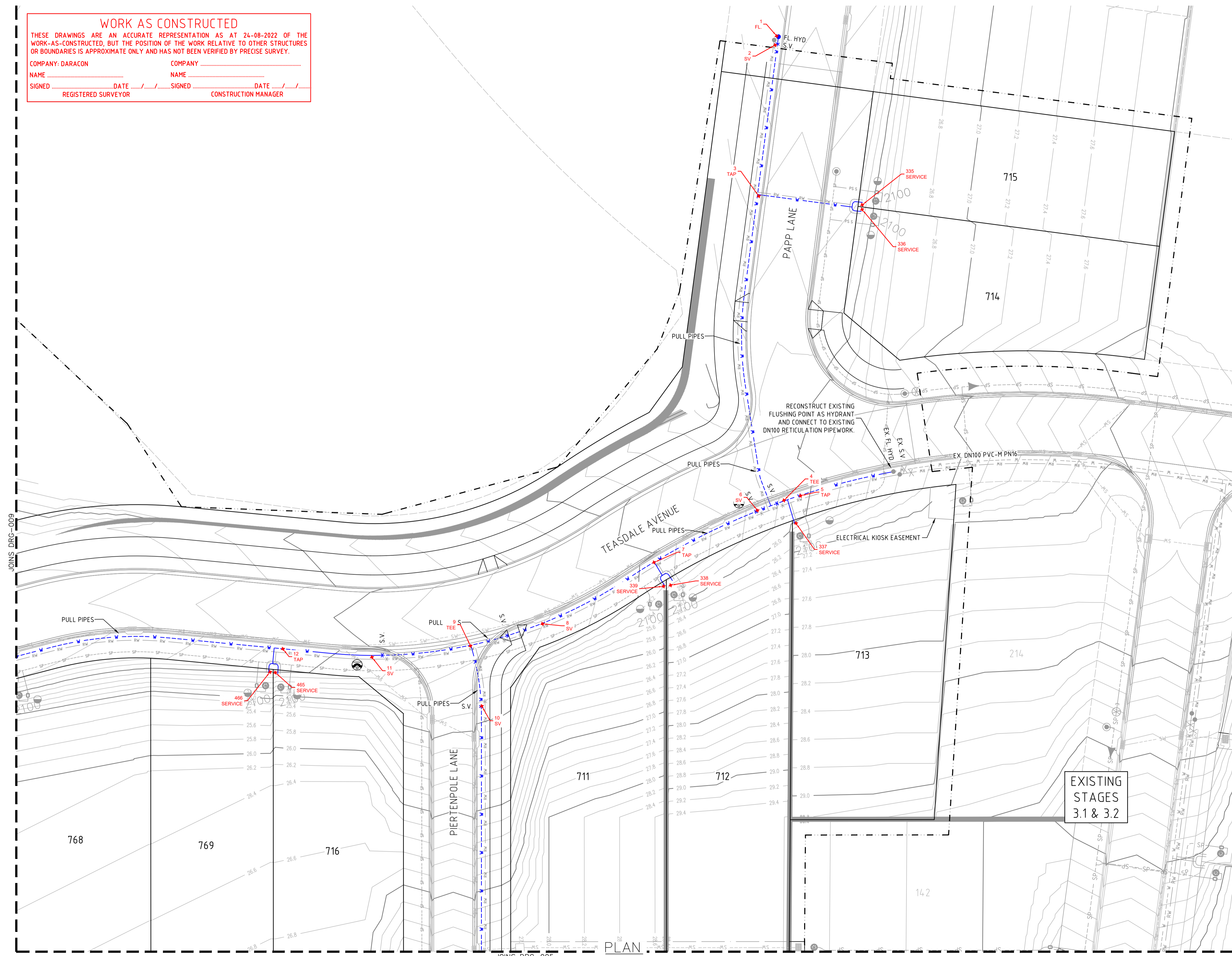


- LEGEND**
- PVC-M POTABLE WATER RETICULATION
 - POTABLE WATER PROPERTY SERVICE
 - PVC-M RECYCLED WATER RETICULATION
 - RECYCLED WATER PROPERTY SERVICE
 - PE PRESSURE SEWER RETICULATION
 - PE PRESSURE SEWER PROPERTY SERVICE
 - EXISTING POTABLE WATER RETICULATION
 - EXISTING RECYCLED WATER RETICULATION
 - EXISTING PRESSURE SEWER RETICULATION
 - STORMWATER PIPEWORK
 - STOP VALVE
 - HYDRANT
 - FLUSHING HYDRANT
 - 90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
- 4 x SHORT SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
- 45 x SHORT SIDE
- 20 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1278

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 5. POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT



EXISTING STAGES 3.1 & 3.2

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	A1 / A3 1:250 / 1:500
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

SCALE 1:250

adw Johnson

Hunter Office
Unit 7/335 Hillsborough Rd
Warners Bay N.S.W. 2282
Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.7)	- WAT -	004	43

240075(3.7-3.8)-WAC-101

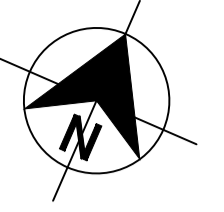
JOINS DRG-004

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24-08-2022 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY: DARACON
NAME: _____
SIGNED: _____ DATE: _____
REGISTERED SURVEYOR

COMPANY: _____
NAME: _____
SIGNED: _____ DATE: _____
CONSTRUCTION MANAGER



DIAL 1100
BEFORE YOU DIG

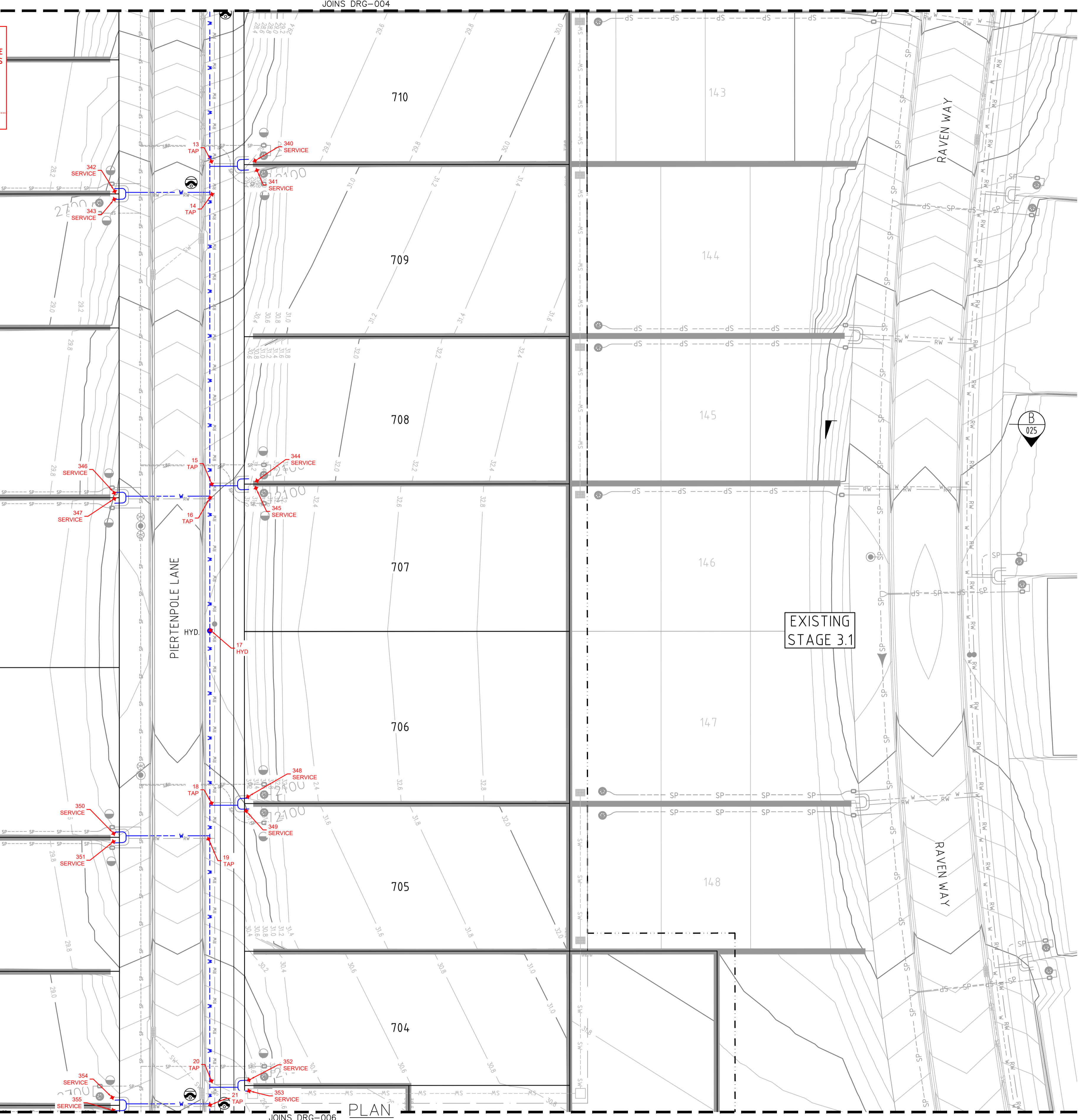
JOINS DRG-008

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.
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3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.

DESIGN FILE N:\

Plotted By: glenns Plot Date: 27/09/22 - 18:16 Cad File: N:\240075\240075(3.7, 3.8)\DWG\ENGINEERING\WATER & SEWER\STAGE 3.7 & 3.8\WAC\240075(3.7-3.8)-WAC-101.dwg



JOINS DRG-006 PLAN SCALE 1:250

- LEGEND**
- PVC-M POTABLE WATER RETICULATION
 - POTABLE WATER PROPERTY SERVICE
 - PVC-M RECYCLED WATER RETICULATION
 - RECYCLED WATER PROPERTY SERVICE
 - PE PRESSURE SEWER RETICULATION
 - PE PRESSURE SEWER PROPERTY SERVICE
 - EXISTING POTABLE WATER RETICULATION
 - EXISTING RECYCLED WATER RETICULATION
 - EXISTING PRESSURE SEWER RETICULATION
 - STORMWATER PIPEWORK
 - STOP VALVE
 - HYDRANT
 - FLUSHING HYDRANT
 - 90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
- 4 x SHORT SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
- 45 x SHORT SIDE
- 20 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1278

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

AS CONSTRUCTED

SCALE
0 5 10 A1 / A3 1:250 / 1:500

adw Johnson

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PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
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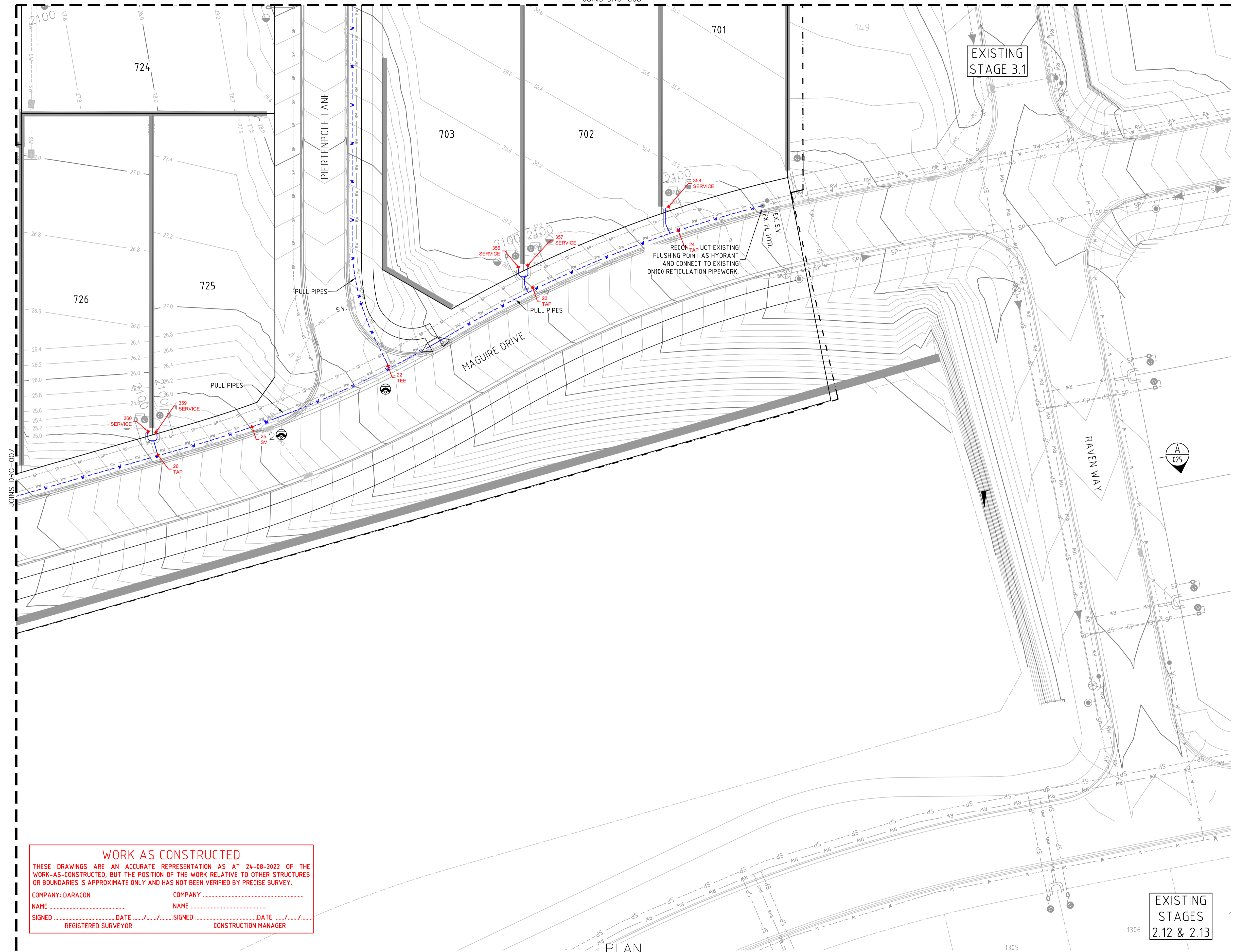
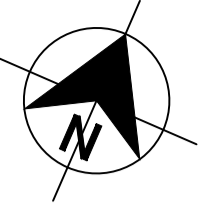
STAGE 3.7
WATAGAN PARK

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.7)	- WAT -	005	43

240075(3.7-3.8)-WAC-101

JOINS DRG-005



- LEGEND**
- PVC-M POTABLE WATER RETICULATION
 - POTABLE WATER PROPERTY SERVICE
 - PVC-M RECYCLED WATER RETICULATION
 - RECYCLED WATER PROPERTY SERVICE
 - PE PRESSURE SEWER RETICULATION
 - PE PRESSURE SEWER PROPERTY SERVICE
 - EXISTING POTABLE WATER RETICULATION
 - EXISTING RECYCLED WATER RETICULATION
 - EXISTING PRESSURE SEWER RETICULATION
 - STORMWATER PIPEWORK
 - STOP VALVE
 - HYDRANT
 - FLUSHING HYDRANT
 - 90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
- 4 x SHORT SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
- 45 x SHORT SIDE
- 20 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1278

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK AS CONSTRUCTED
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COMPANY: DARACON
 NAME: _____
 SIGNED: _____ DATE: _____
 REGISTERED SURVEYOR

COMPANY: _____
 NAME: _____
 SIGNED: _____ DATE: _____
 CONSTRUCTION MANAGER

PLAN SCALE 1:250

EXISTING STAGES 2.12 & 2.13

AS CONSTRUCTED

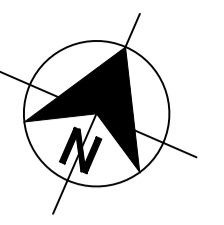
<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>20.05.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>J.N.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>B</td> <td>15.06.2021</td> <td>UPDATED POT DETAILS AND LOCATIONS</td> <td>G.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>0</td> <td>08.08.2021</td> <td>CONSTRUCTION ISSUE</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>1</td> <td>12.08.2021</td> <td>ADDITIONAL STOP VALVES</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>2</td> <td>16.09.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>N.C.</td> <td>T.S.</td> <td>M-P.C.</td> </tr> <tr> <td>3</td> <td>27.09.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>N.C.</td> <td>T.S.</td> <td>M-P.C.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>WORK AS CONSTRUCTED PROPOSED SUBDIVISION STAGE 3.7 WATAGAN PARK</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN - SHEET 3</p>
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																
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<p>DESIGN FILE N:\</p>	<p>PROJECT No.</p> <p>239078(3.7)</p>	<p>DISCIPLINE</p> <p>- WAT -</p>	<p>NUMBER</p> <p>006</p>	<p>REV.</p> <p>43</p>																																																			

240075(3.7-3.8)-WAC-101

100mm AT FULL SIZE

JOINS DRG-009

JOINS DRG-007



LEGEND

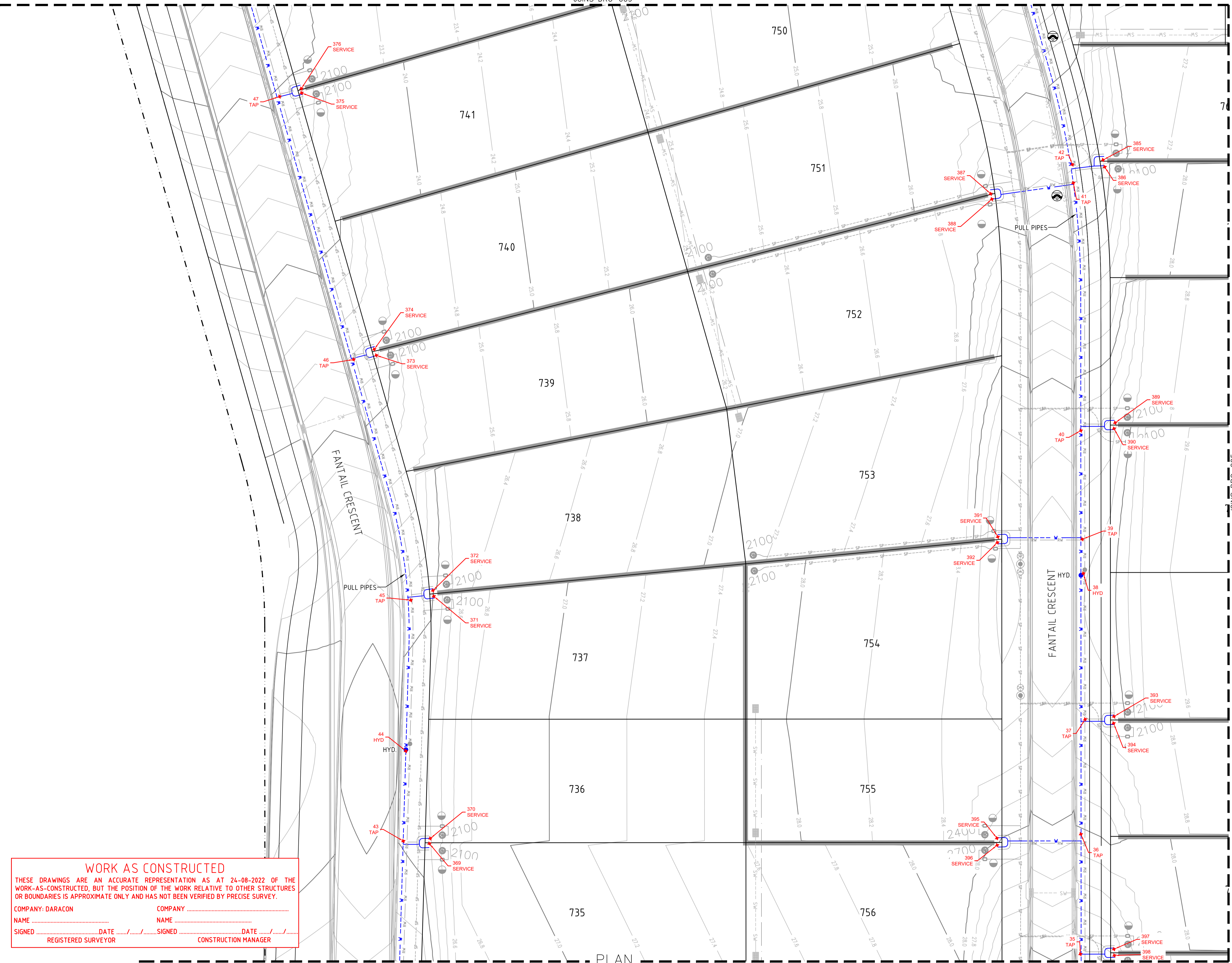
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	PE PRESSURE SEWER PROPERTY SERVICE
	EXISTING POTABLE WATER RETICULATION
	EXISTING RECYCLED WATER RETICULATION
	EXISTING PRESSURE SEWER RETICULATION
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
	FLUSHING HYDRANT
	90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
	22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
	11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
	PROPERTY SERVICE CONNECTION
	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	PROPOSED EASEMENT
	SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
- 4 x SHORT SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
- 45 x SHORT SIDE
- 20 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1278

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT



WORK AS CONSTRUCTED
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COMPANY: DARACON COMPANY
 NAME: NAME
 SIGNED: DATE SIGNED: DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

AS CONSTRUCTED

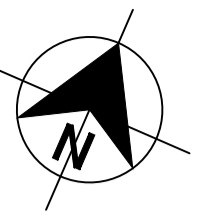
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DESIGN FILE N:\	Plotted By: glenns	Plot Date: 27/09/22 - 18:16	Cad File: N:\240075\240075(3.7, 3.8)\DWG\ENGINEERING\WATER & SEWER\STAGE 3.7 & 3.8\WAC\240075(3.7-3.8)-WAC-101.dwg	PROJECT No.	DISCIPLINE	NUMBER	REV.																																																								
				239078(3.7)	- WAT -	008	43																																																								

240075(3.7-3.8)-WAC-101

WORK AS CONSTRUCTED

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COMPANY: DARACON COMPANY: _____
NAME: _____ NAME: _____
SIGNED: _____ DATE: _____ SIGNED: _____ DATE: _____
REGISTERED SURVEYOR CONSTRUCTION MANAGER



LEGEND

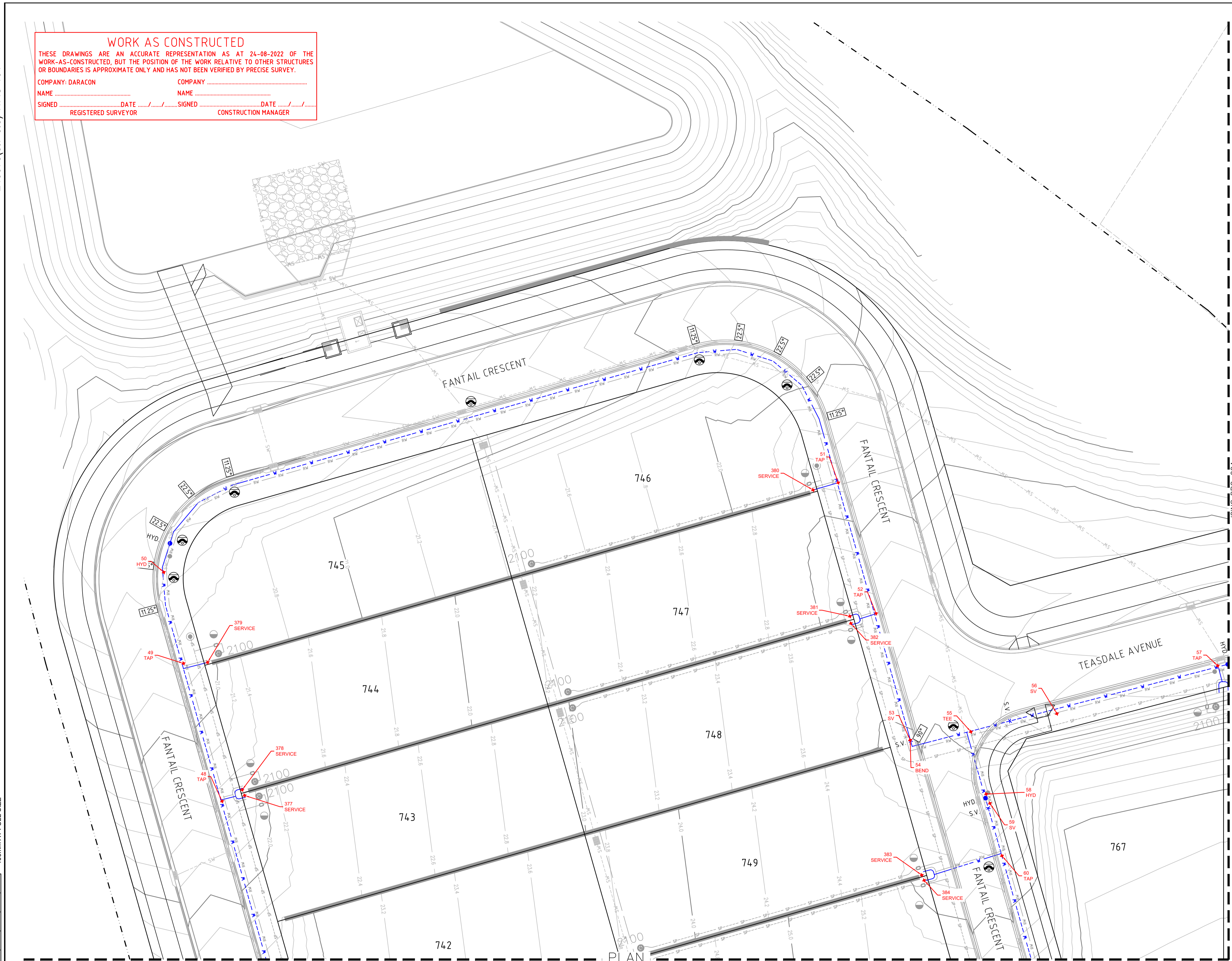
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	11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
	PROPERTY SERVICE CONNECTION
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	PROPOSED EASEMENT
	SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
- 4 x SHORT SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
- 45 x SHORT SIDE
- 20 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1278

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
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AS CONSTRUCTED



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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SCALE 1:250

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

adw Johnson

Hunter Office
Unit 7/335 Hillsborough Rd
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Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: POTABLE WATER DETAIL PLAN - SHEET 6

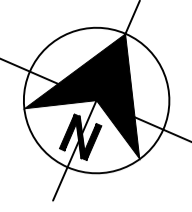
PROJECT No. 239078(3.7) DISCIPLINE: WAT NUMBER: 009 REV: 43

240075(3.7-3.8)-WAC-201



WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24-08-2022 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY: DARACON COMPANY
 NAME: NAME
 SIGNED: DATE SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

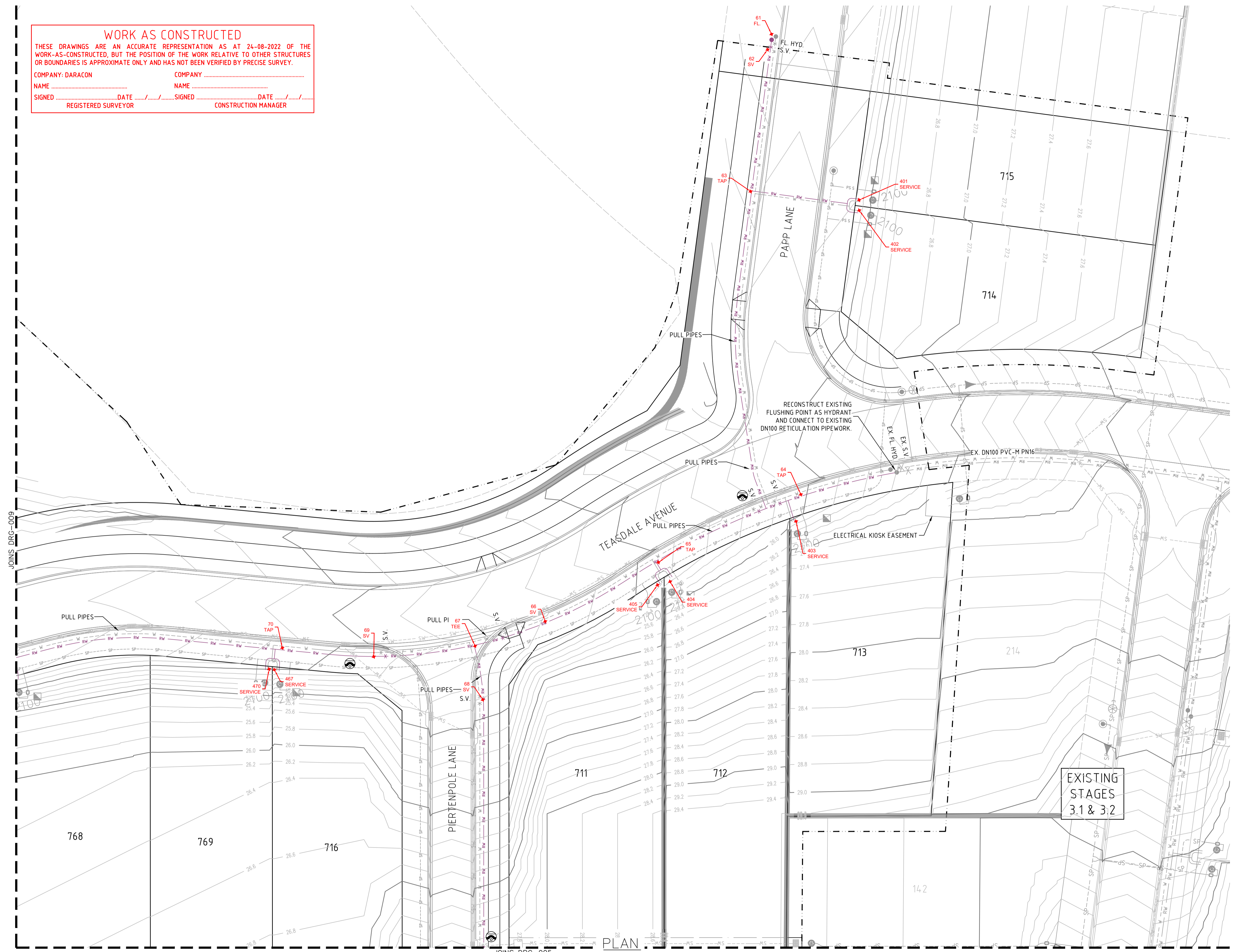


- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - HYD. HYDRANT
 - FL HYD. FLUSHING HYDRANT
 - 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 11.25° 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 -4 x SHORT SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 -45 x SHORT SIDE
 -20 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1276

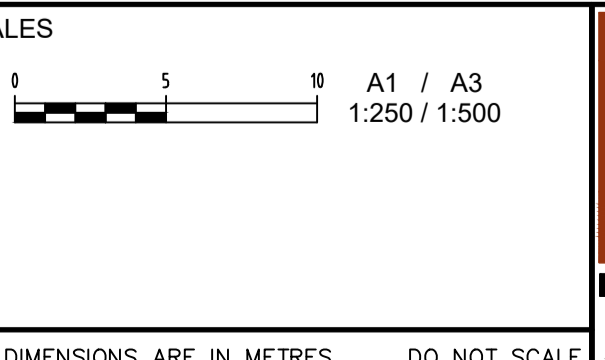
- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 5. POTABLE WATER & RECYCLED WATER TO SHARE 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT



EXISTING STAGES 3.1 & 3.2

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	A1 / A3 1:250 / 1:500
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	N.C.	T.S.	M-P.C.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	



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CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
 WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

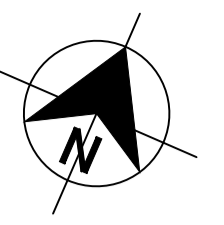
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: RECYCLED WATER DETAIL PLAN - SHEET 1

PROJECT No. 239078(3.7) DISCIPLINE: WAT NUMBER: 011 REV. 43

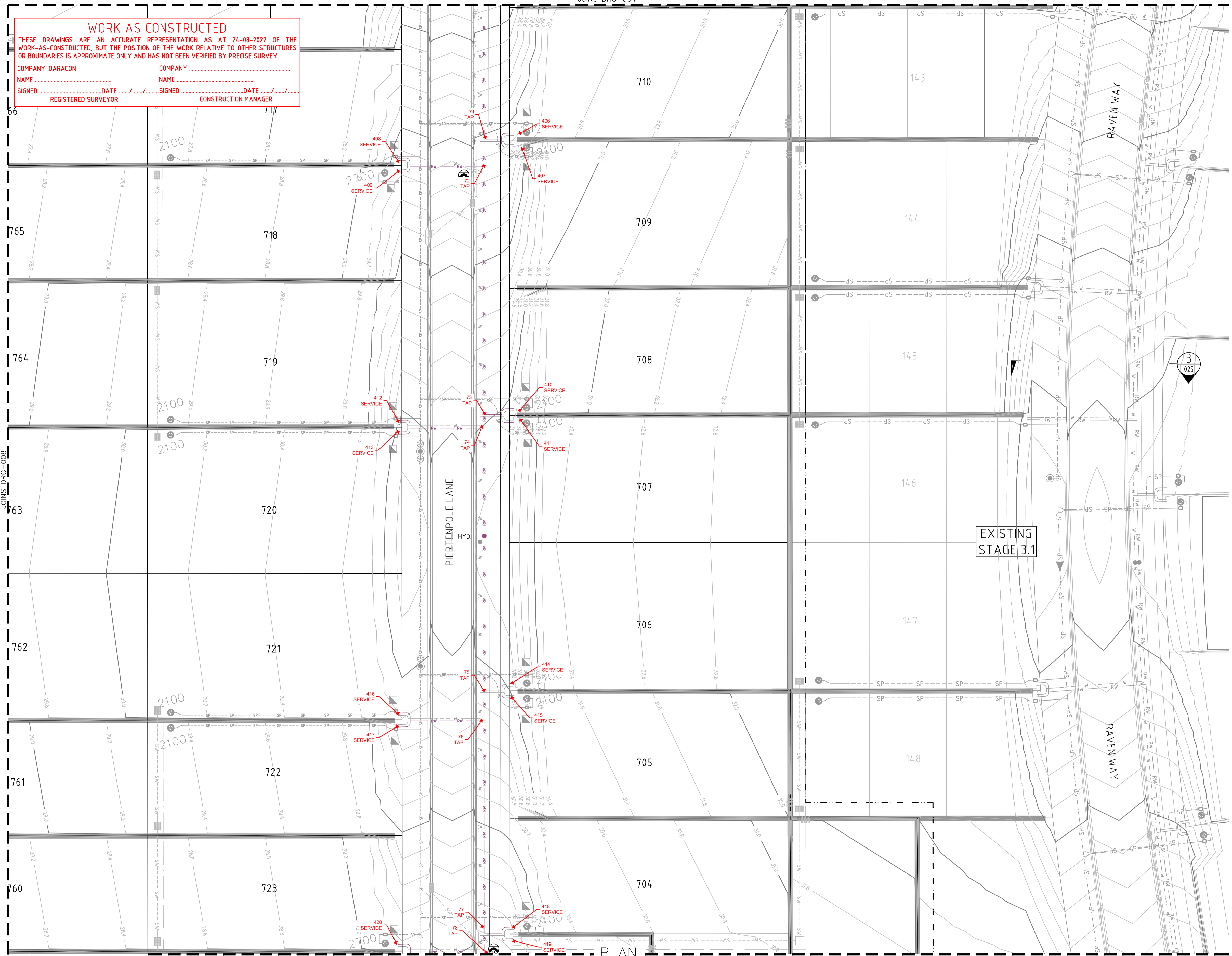
240075(3.7-3.8)-WAC-201

JOINS DRG-004



WORK AS CONSTRUCTED
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COMPANY: DARACON
 NAME: _____ COMPANY: _____
 NAME: _____
 SIGNED: _____ DATE: _____ SIGNED: _____ DATE: _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER



- LEGEND**
- RW RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - W POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - HYD. HYDRANT
 - FL HYD. FLUSHING HYDRANT
 - 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 11.25° 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
 TOTAL 69 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-4 x SHORT SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-45 x SHORT SIDE
-20 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1276

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 5. POTABLE WATER & RECYCLED WATER TO SHARE Ø150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

AS CONSTRUCTED

JOINS DRG-008

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.

SCALE
0 5 10 A1 / A3 1:250 / 1:500

adw Johnson

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 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
 WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

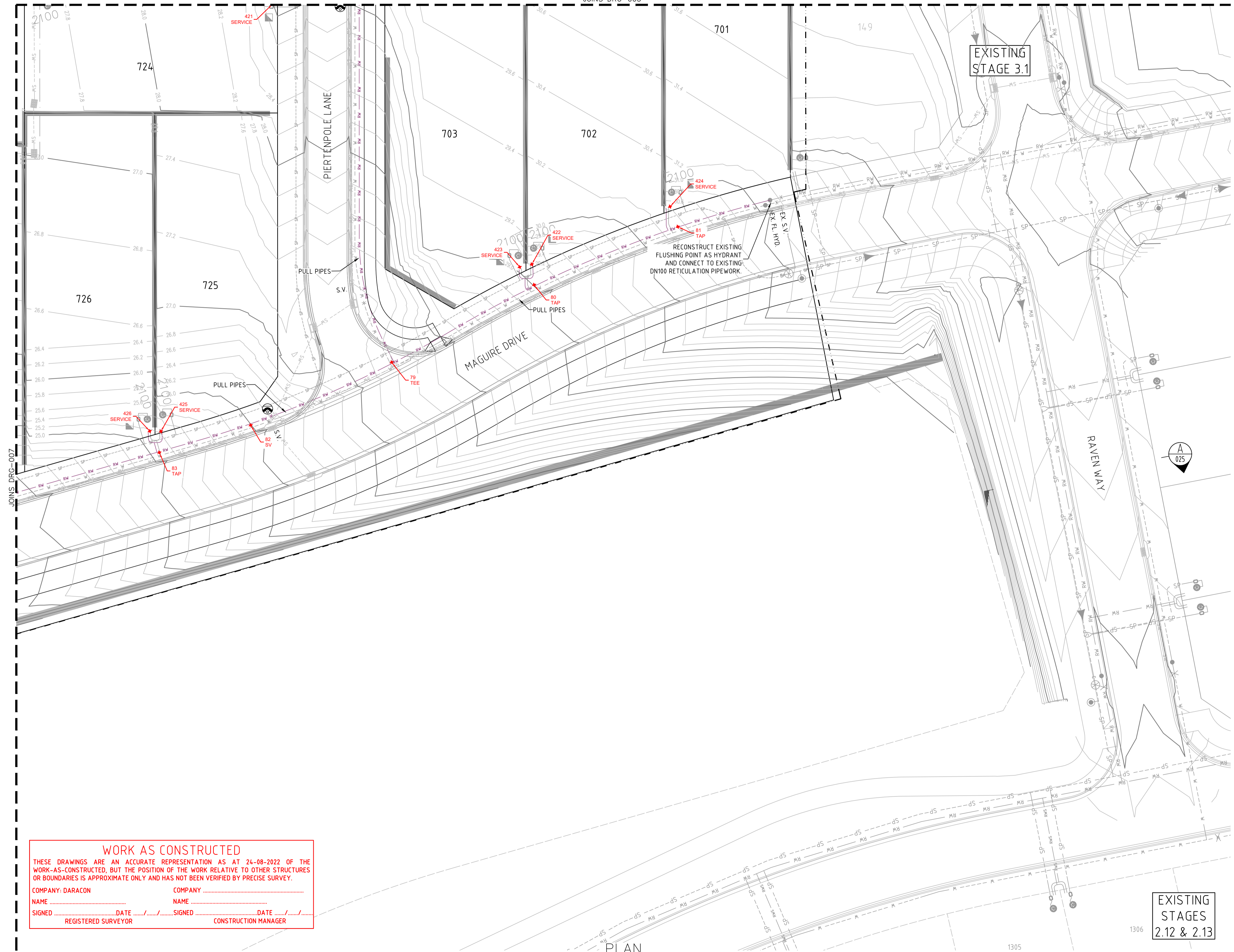
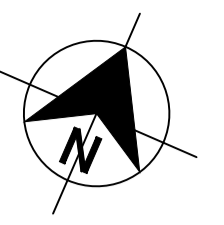
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: RECYCLED WATER DETAIL PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.7)	- WAT -	012	43

240075(3.7-3.8)-WAC-201

JOINS DRG-005



- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - HYD HYDRANT
 - FL HYD FLUSHING HYDRANT
 - 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - 11.25° 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-4 x SHORT SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-45 x SHORT SIDE
-20 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1276

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 5. POTABLE WATER & RECYCLED WATER TO SHARE 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK AS CONSTRUCTED

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COMPANY: DARACON COMPANY
 NAME NAME
 SIGNED DATE SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

PLAN SCALE 1:250

EXISTING STAGES 2.12 & 2.13

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	0 5 10 A1 / A3 1:250 / 1:500
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

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CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
 WATAGAN PARK

SURVEYED ADW Johnson DATUM A.H.D.

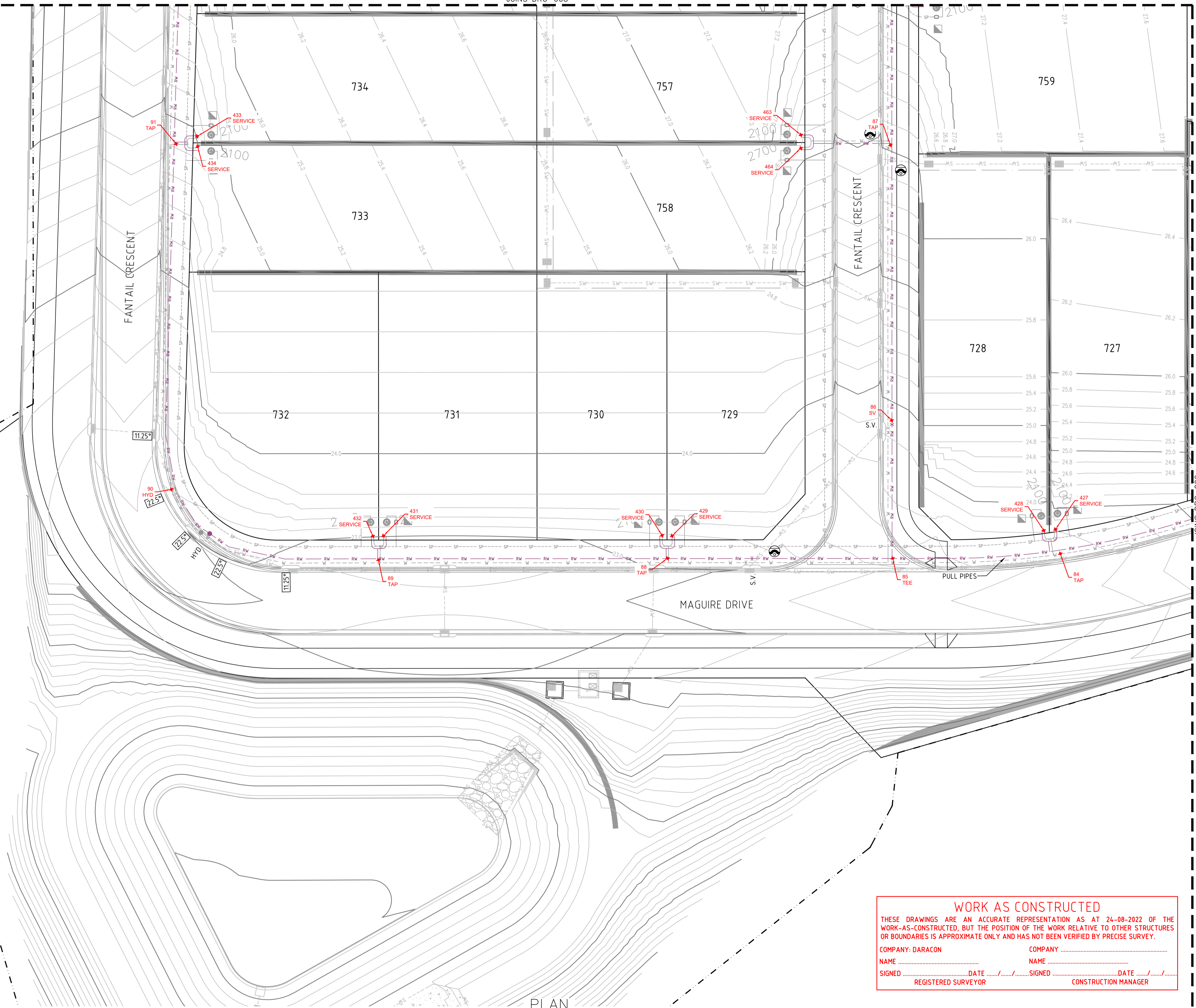
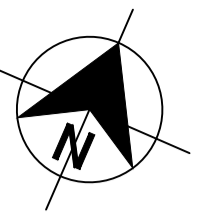
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 3

PROJECT No. 239078(3.7) DISCIPLINE WAT NUMBER 013 REV. 43

240075(3.7-3.8)-WAC-201

JOINS DRG-008



LEGEND

RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
SP	PE PRESSURE SEWER RETICULATION
PS	PE PRESSURE SEWER PROPERTY SERVICE
EX RW	EXISTING RECYCLED WATER RETICULATION
EX PW	EXISTING POTABLE WATER RETICULATION
EX PS	EXISTING PRESSURE SEWER RETICULATION
SW	STORMWATER PIPEWORK
SV	STOP VALVE
HYD	HYDRANT
FL HYD	FLUSHING HYDRANT
22.5°	22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
11.25°	11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
□	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- - -	PROPOSED EASEMENT
- - - - -	SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-4 x SHORT SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-45 x SHORT SIDE
-20 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1276

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 5. POTABLE WATER & RECYCLED WATER TO SHARE Ø150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK AS CONSTRUCTED
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COMPANY: DARACON
NAME: _____
SIGNED: _____ DATE: ____/____/____
REGISTERED SURVEYOR

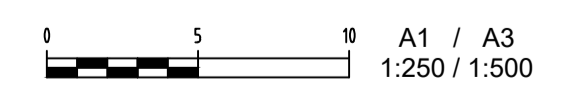
COMPANY: _____
NAME: _____
SIGNED: _____ DATE: ____/____/____
CONSTRUCTION MANAGER

AS CONSTRUCTED

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

PLAN SCALE 1: 250



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ABN 62 129 445 398



PROPERTY DESCRIPTION
WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~
STAGE 3.7
WATAGAN PARK

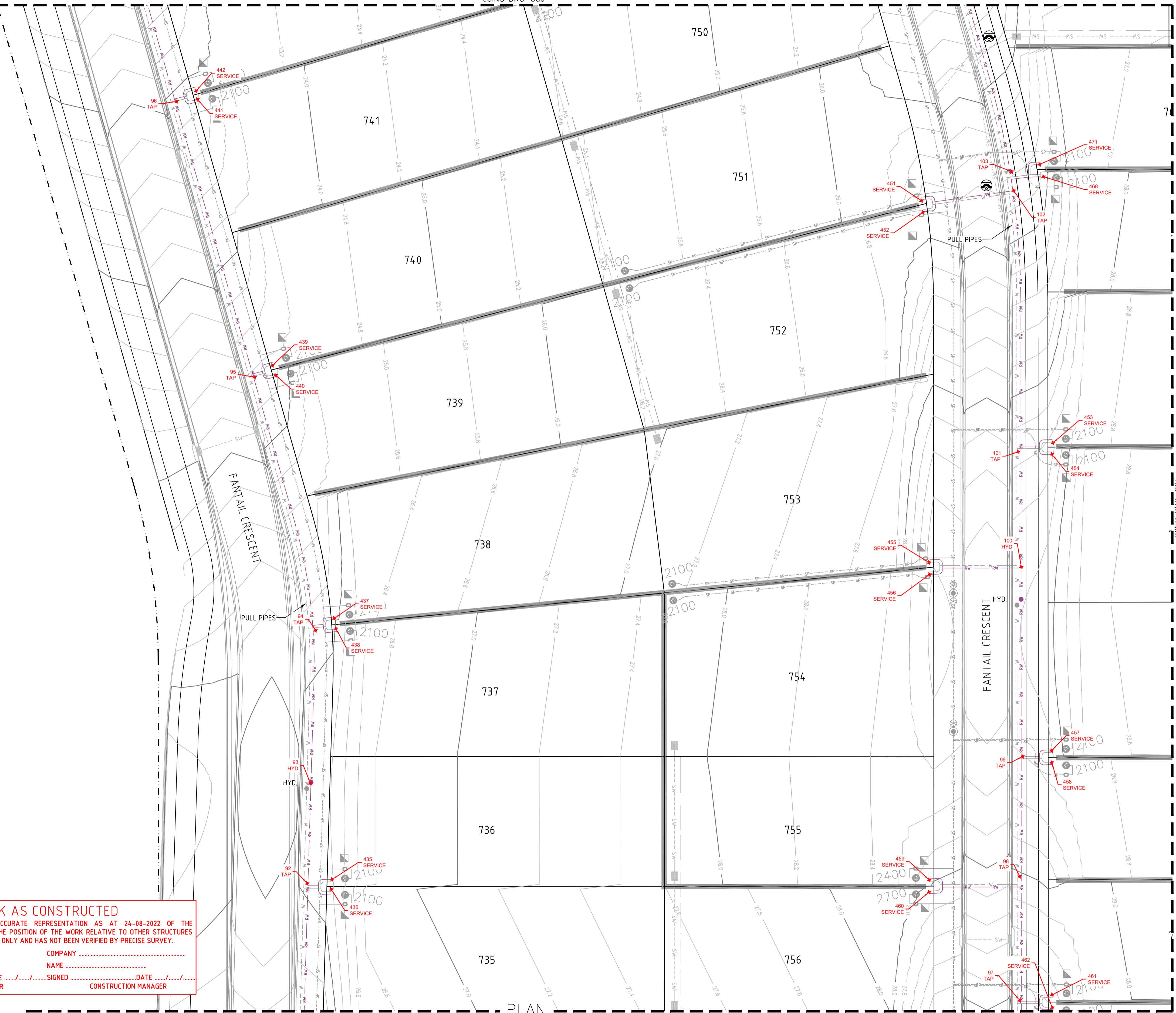
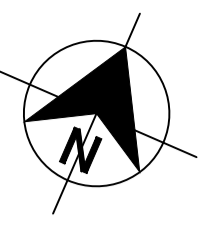
SURVEYED: ADW Johnson
DATUM: A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 4		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.7)	- WAT -	014	43

240075(3.7-3.8)-WAC-201

100mm AT FULL SIZE

JOINS DRG-009



LEGEND

RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
SP	PE PRESSURE SEWER RETICULATION
PS S	PE PRESSURE SEWER PROPERTY SERVICE
EX RW	EXISTING RECYCLED WATER RETICULATION
EX PW	EXISTING POTABLE WATER RETICULATION
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□	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-V
- - -	PROPOSED EASEMENT
- - - - -	SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-4 x SHORT SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-45 x SHORT SIDE
-20 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1276

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
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 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

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COMPANY: DARACON
NAME: _____
SIGNED: _____ DATE: _____
REGISTERED SURVEYOR

COMPANY: _____
NAME: _____
SIGNED: _____ DATE: _____
CONSTRUCTION MANAGER

AS CONSTRUCTED

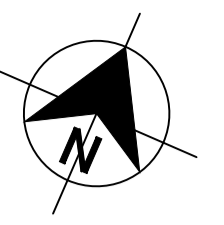
<table border="1"> <thead> <tr><th>REV.</th><th>DATE</th><th>AMENDMENT</th><th>DRAWN</th><th>CHECK</th><th>DESIGN</th><th>VERIFY</th><th>SCALES</th></tr> </thead> <tbody> <tr><td>A</td><td>20.05.2021</td><td>PRELIMINARY ISSUE</td><td>G.S.</td><td>J.N.</td><td>T.S.</td><td>R.J.</td><td></td></tr> <tr><td>B</td><td>15.06.2021</td><td>UPDATED POT DETAILS AND LOCATIONS</td><td>G.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td><td></td></tr> <tr><td>0</td><td>08.08.2021</td><td>CONSTRUCTION ISSUE</td><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td><td></td></tr> <tr><td>1</td><td>12.08.2021</td><td>ADDITIONAL STOP VALVES</td><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td><td></td></tr> <tr><td>2</td><td>16.09.2022</td><td>WORK AS CONSTRUCTED</td><td>G.S.</td><td>N.C.</td><td>T.S.</td><td>M-P.C.</td><td></td></tr> <tr><td>3</td><td>27.09.2022</td><td>WORK AS CONSTRUCTED</td><td>G.S.</td><td>N.C.</td><td>T.S.</td><td>M-P.C.</td><td></td></tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.		B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.		0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.		1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.		2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.		3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.		<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p> <p>SCALE 1: 250</p>	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>WORK AS CONSTRUCTED PROPOSED SUBDIVISION</p> <p>STAGE 3.7 WATAGAN PARK</p>	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																								
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3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.																																																										
DESIGN FILE N:\	Plotted By: glenns	Plot Date: 27/09/22 - 18:17	Cad File: N:\240075\240075(3.7, 3.8)\DWG\ENGINEERING\WATER & SEWER\STAGE 3.7 & 3.8\WAC\240075(3.7-3.8)-WAC-201.dwg	PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 5																																																											
SURVEYED		DATUM		PROJECT No.	DISCIPLINE	NUMBER	REV.																																																									
ADW Johnson		A.H.D.		239078(3.7)	- WAT -	015	43																																																									

240075(3.7-3.8)-WAC-201

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24-08-2022 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY: DARACON COMPANY: _____
NAME: _____ NAME: _____
SIGNED: _____ DATE: _____ SIGNED: _____ DATE: _____
REGISTERED SURVEYOR CONSTRUCTION MANAGER



LEGEND

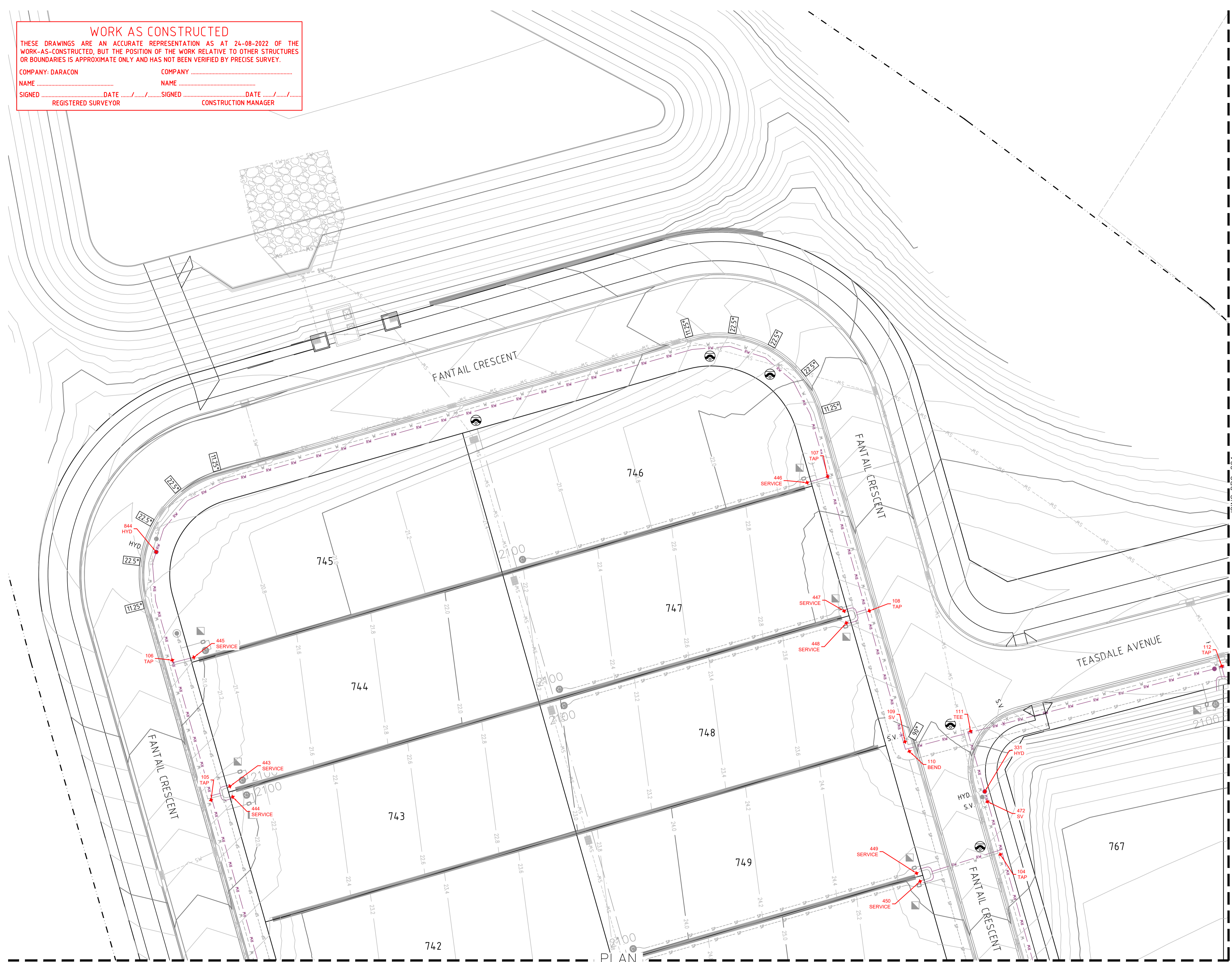
- RW RW PVC-M RECYCLED WATER RETICULATION
- RWS RWS RECYCLED WATER PROPERTY SERVICE
- W W PVC-M POTABLE WATER RETICULATION
- PWS PWS POTABLE WATER PROPERTY SERVICE
- SP SP PE PRESSURE SEWER RETICULATION
- PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
- EX RW EX RW EXISTING RECYCLED WATER RETICULATION
- EX PW EX PW EXISTING POTABLE WATER RETICULATION
- EX PS EX PS EXISTING PRESSURE SEWER RETICULATION
- SW SW STORMWATER PIPEWORK
- SV STOP VALVE
- HYD. HYDRANT
- FL HYD. FLUSHING HYDRANT
- 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
- 11.25° 11.25° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 69 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-4 x SHORT SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-45 x SHORT SIDE
-20 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	1276

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

AS CONSTRUCTED



100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
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SCALE
0 5 10 A1 / A3 1:250 / 1:500

adw Johnson

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email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
WATAGAN PARK

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 6

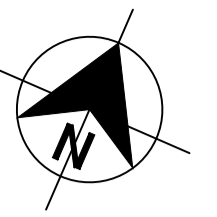
PROJECT No. 239078(3.7) DISCIPLINE - WAT - NUMBER 016 REV. 43

240075(3.7-3.8)WAC-301

WORK AS CONSTRUCTED

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COMPANY: DARACON	COMPANY
NAME	NAME
SIGNED	SIGNED
DATE	DATE
REGISTERED SURVEYOR	CONSTRUCTION MANAGER

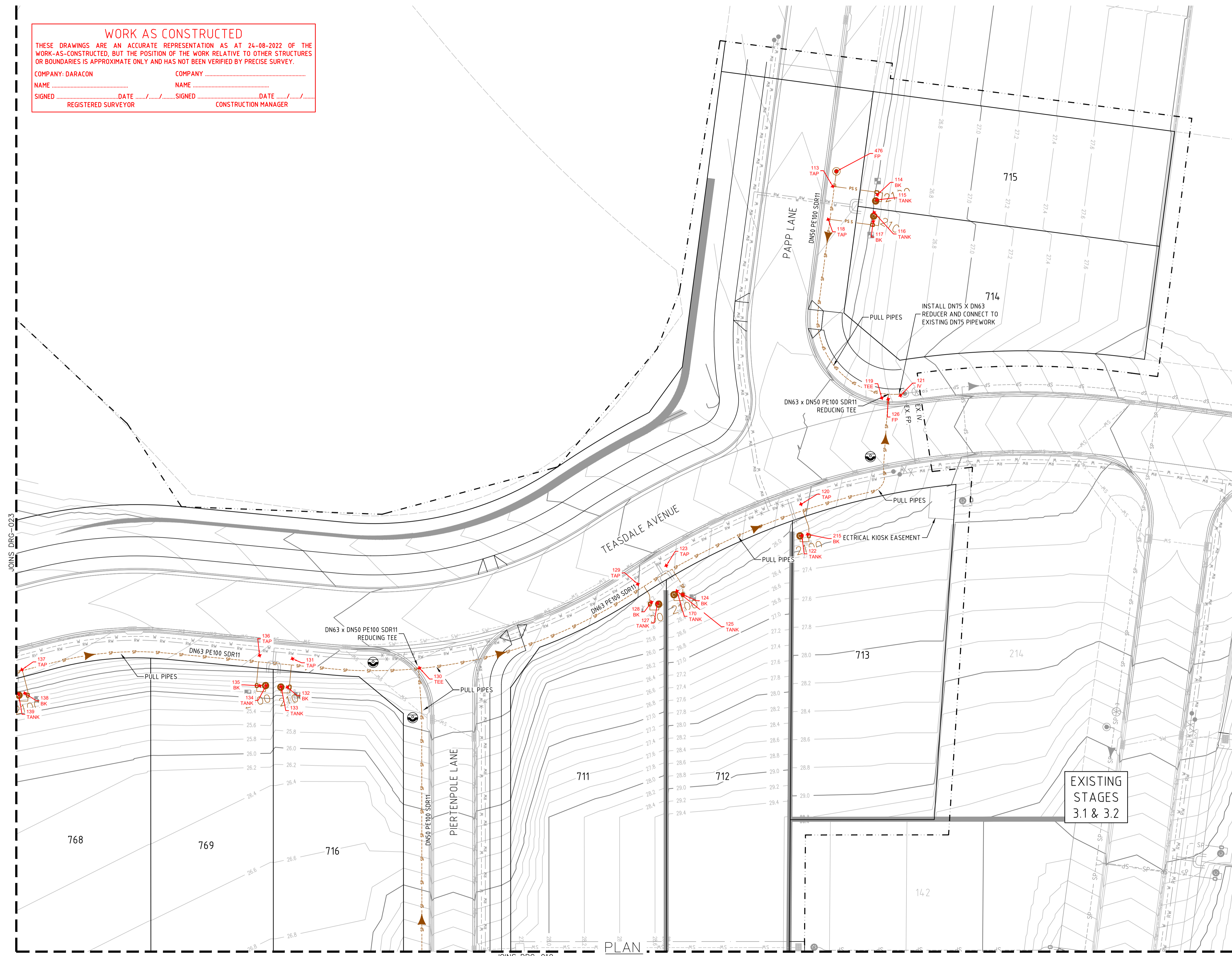


- LEGEND**
- SP S PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - FP FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
 - PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
 TOTAL 68 CONNECTIONS
 • SINGLE SERVICES
 -53 x SHORT SIDE
 -15 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN40 (LATERAL)	PE100 SDR11	871
DN50	PE100 SDR11	64.8
DN63	PE100 SDR11	4.90
DN75	PE100 SDR11	121
DN110	PE100 SDR11	98

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT



EXISTING STAGES 3.1 & 3.2

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	A1 / A3 1:250 / 1:500
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SCALE 1:250

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 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
 WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

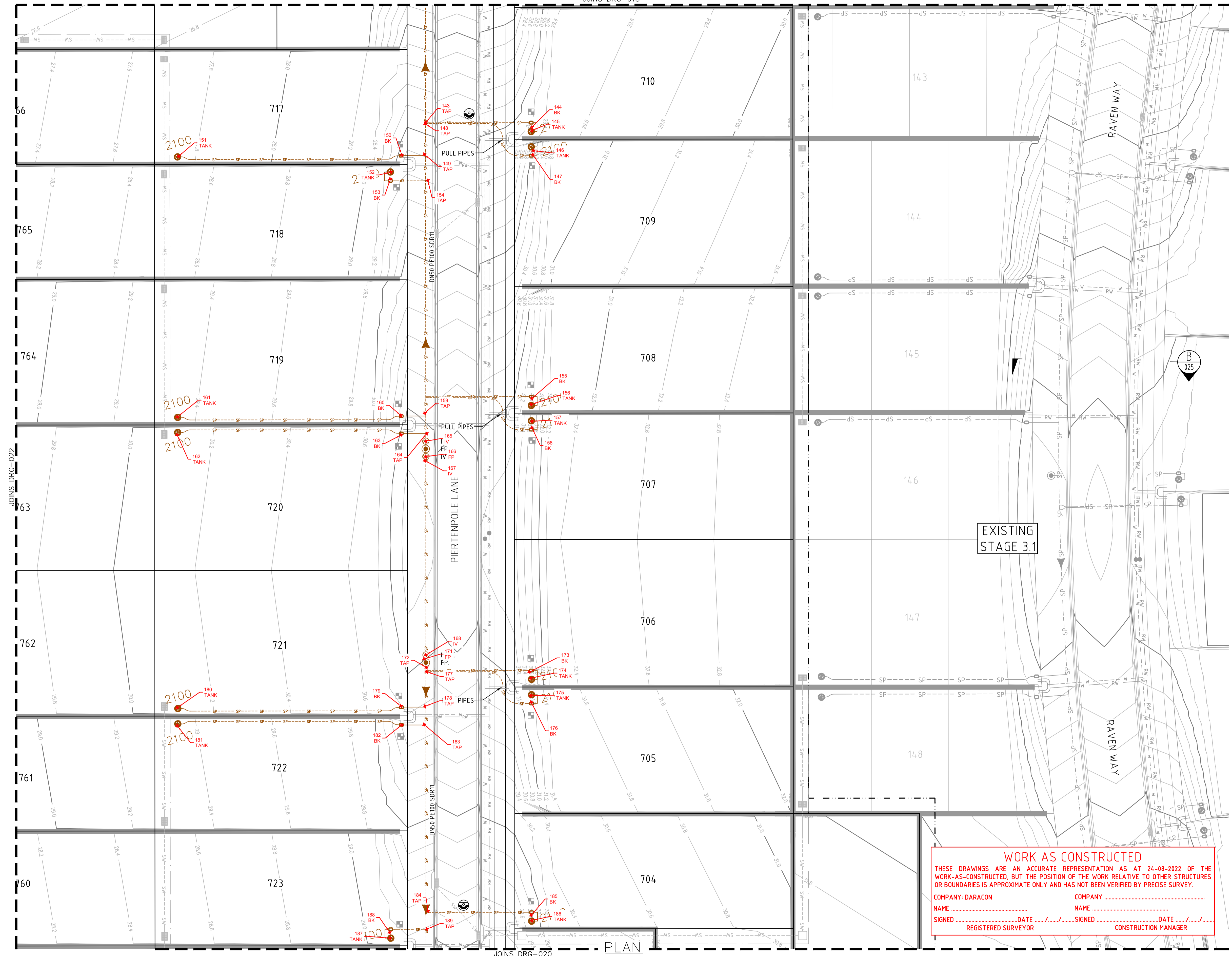
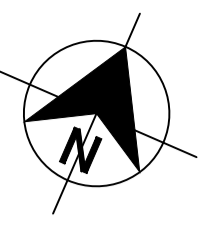
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 1

PROJECT No. 239078(3.7) DISCIPLINE: WAT NUMBER: 018 REV. 43

240075(3.7-3.8)-WAC-301

JOINS DRG-018



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - FP FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
 - PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 68 CONNECTIONS
 • SINGLE SERVICES
 -53 x SHORT SIDE
 -15 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN40 (LATERAL)	PE100 SDR11	871
DN50	PE100 SDR11	648
DN63	PE100 SDR11	490
DN75	PE100 SDR11	121
DN110	PE100 SDR11	98

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE
 ø150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK AS CONSTRUCTED
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COMPANY: DARACON
 NAME: _____ DATE: _____
 SIGNED: _____ REGISTERED SURVEYOR

COMPANY: _____
 NAME: _____ DATE: _____
 SIGNED: _____ CONSTRUCTION MANAGER

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

SCALE 1: 250

adw Johnson

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 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
 WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

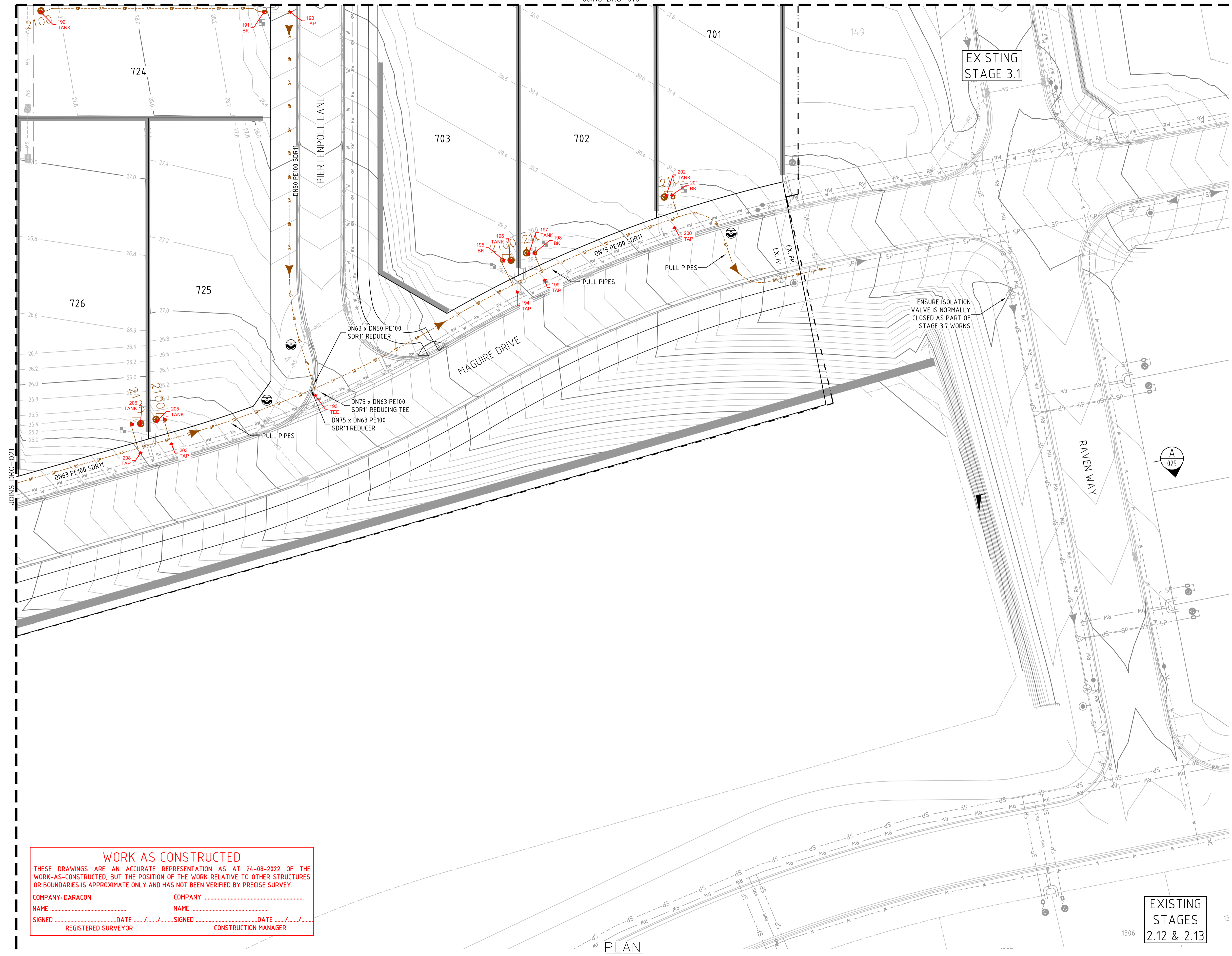
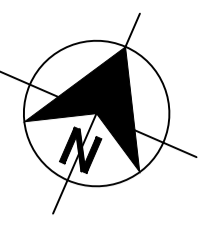
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 2

PROJECT No. 239078(3.7) DISCIPLINE: WAT NUMBER: 019 REV. 43

240075(3.7-3.8)-WAC-301

JOINS DRG-019



LEGEND

SP	PE PRESSURE SEWER RETICULATION
PS S	PE PRESSURE SEWER PROPERTY SERVICE
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
EX PS	EXISTING PRESSURE SEWER RETICULATION
EX PW	EXISTING POTABLE WATER RETICULATION
EX RW	EXISTING RECYCLED WATER RETICULATION
SW	STORMWATER PIPEWORK
IV	ISOLATION VALVE
FP	FLUSHING POINT
WWT	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
PSFD	PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
PSFDU	PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
PC	PROPERTY SERVICE CONNECTION
LSP	LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
PE	PROPOSED EASEMENT
SSB	SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 68 CONNECTIONS
 • SINGLE SERVICES
 -53 x SHORT SIDE
 -15 x LONG SIDE

PRESSURE SEWER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN40 (LATERAL)	PE100 SDR11	871
DN50	PE100 SDR11	648
DN63	PE100 SDR11	490
DN75	PE100 SDR11	121
DN110	PE100 SDR11	98

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK AS CONSTRUCTED
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COMPANY: DARACON
 NAME: _____
 SIGNED: _____ DATE: _____
 REGISTERED SURVEYOR

COMPANY: _____
 NAME: _____
 SIGNED: _____ DATE: _____
 CONSTRUCTION MANAGER

PLAN
 SCALE 1: 250

EXISTING STAGES
 2.12 & 2.13

AS CONSTRUCTED

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PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

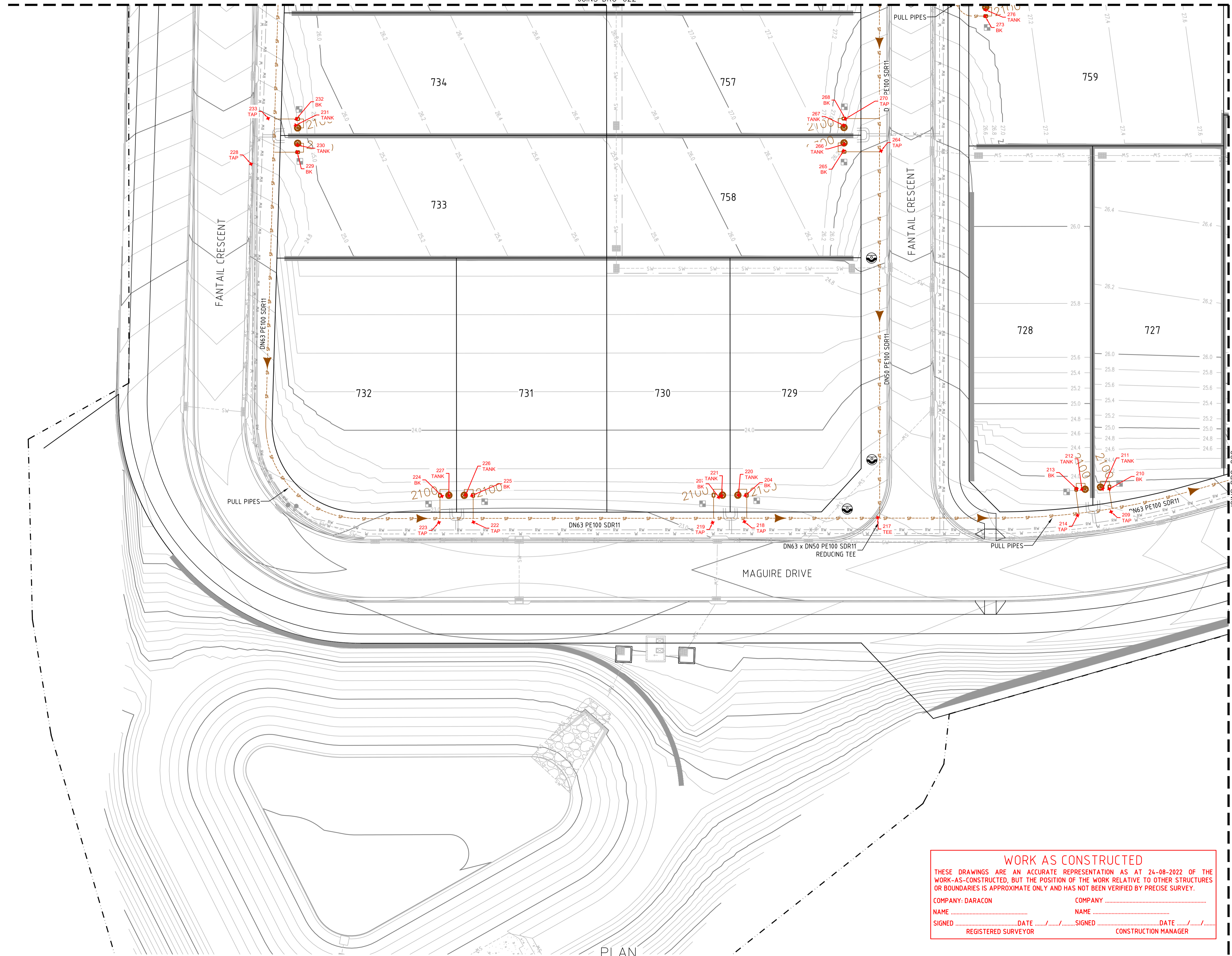
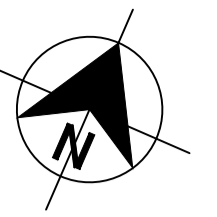
STAGE 3.7
 WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 3

PROJECT No. 239078(3.7) DISCIPLINE: WAT NUMBER: 020 REV: 43



- LEGEND**
- SP-----SP PE PRESSURE SEWER RETICULATION
 - PS S-----PE PRESSURE SEWER PROPERTY SERVICE
 - W-----W PVC-M POTABLE WATER RETICULATION
 - PWS-----PWS POTABLE WATER PROPERTY SERVICE
 - RW-----RW PVC-M RECYCLED WATER RETICULATION
 - RWS-----RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS-----EXISTING PRESSURE SEWER RETICULATION
 - EX PW-----EXISTING POTABLE WATER RETICULATION
 - EX RW-----EXISTING RECYCLED WATER RETICULATION
 - SW-----SW STORMWATER PIPEWORK
 - IV. [Symbol] ISOLATION VALVE
 - FP. [Symbol] FLUSHING POINT
 - [Symbol] WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - [Symbol] PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
 - [Symbol] PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
 - [Symbol] PROPERTY SERVICE CONNECTION
 - [Symbol] LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - - - - - SUBDIVISION STAGE BOUNDARY

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
 TOTAL 68 CONNECTIONS
 • SINGLE SERVICES
 -53 x SHORT SIDE
 -15 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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DN50	PE100 SDR11	648
DN63	PE100 SDR11	490
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- NOTES:**
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 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK AS CONSTRUCTED

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COMPANY: DARACON COMPANY
 NAME: NAME
 SIGNED: DATE / / SIGNED: DATE / /
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	0 5 10 A1 / A3 1:250 / 1:500
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

PLAN
SCALE 1:250

Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

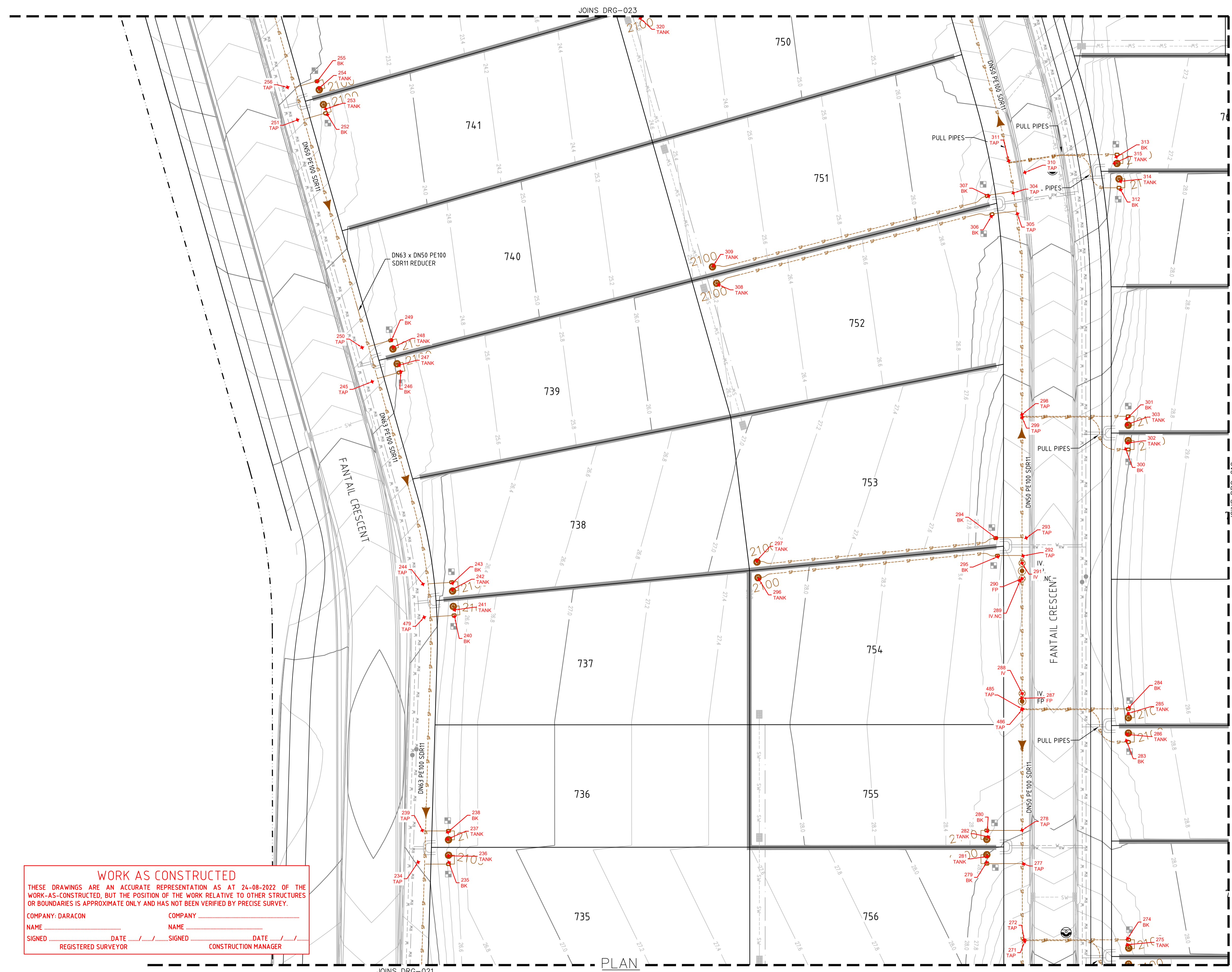
WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~
 STAGE 3.7
 WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 4

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.7)	- WAT -	021	43



LEGEND

- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- W POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- SW STORMWATER PIPEWORK
- IV ISOLATION VALVE
- FP FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
- PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 68 CONNECTIONS
 • SINGLE SERVICES
 -53 x SHORT SIDE
 -15 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN40 (LATERAL)	PE100 SDR11	871
DN50	PE100 SDR11	648
DN63	PE100 SDR11	490
DN75	PE100 SDR11	121
DN110	PE100 SDR11	98

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-027 TO 028.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK AS CONSTRUCTED
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 COMPANY: DARACON
 NAME: _____
 SIGNED: _____ DATE: _____
 REGISTERED SURVEYOR

COMPANY: _____
 NAME: _____
 SIGNED: _____ DATE: _____
 CONSTRUCTION MANAGER

AS CONSTRUCTED

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>20.05.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>J.N.</td> <td>T.S.</td> <td>R.J.</td> <td></td> </tr> <tr> <td>B</td> <td>15.06.2021</td> <td>UPDATED POT DETAILS AND LOCATIONS</td> <td>G.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> <td></td> </tr> <tr> <td>0</td> <td>08.08.2021</td> <td>CONSTRUCTION ISSUE</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> <td></td> </tr> <tr> <td>1</td> <td>12.08.2021</td> <td>ADDITIONAL STOP VALVES</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> <td></td> </tr> <tr> <td>2</td> <td>16.09.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>N.C.</td> <td>T.S.</td> <td>M-P.C.</td> <td></td> </tr> <tr> <td>3</td> <td>27.09.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>N.C.</td> <td>T.S.</td> <td>M-P.C.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.		B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.		0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.		1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.		2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.		3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.		<p>SCALE 1:250</p> <p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>WORK AS CONSTRUCTED PROPOSED SUBDIVISION</p> <p>STAGE 3.7 WATAGAN PARK</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>PRESSURE SEWER DETAIL PLAN - SHEET 5</p>
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																						
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<p>DESIGN FILE N:\</p>	<p>PROJECT No.</p> <p>239078(3.7)</p>	<p>DISCIPLINE</p> <p>- WAT -</p>	<p>NUMBER</p> <p>022</p>	<p>REV.</p> <p>43</p>																																																										

240075(3.7-3.8)-WAC-301

100mm AT FULL SIZE



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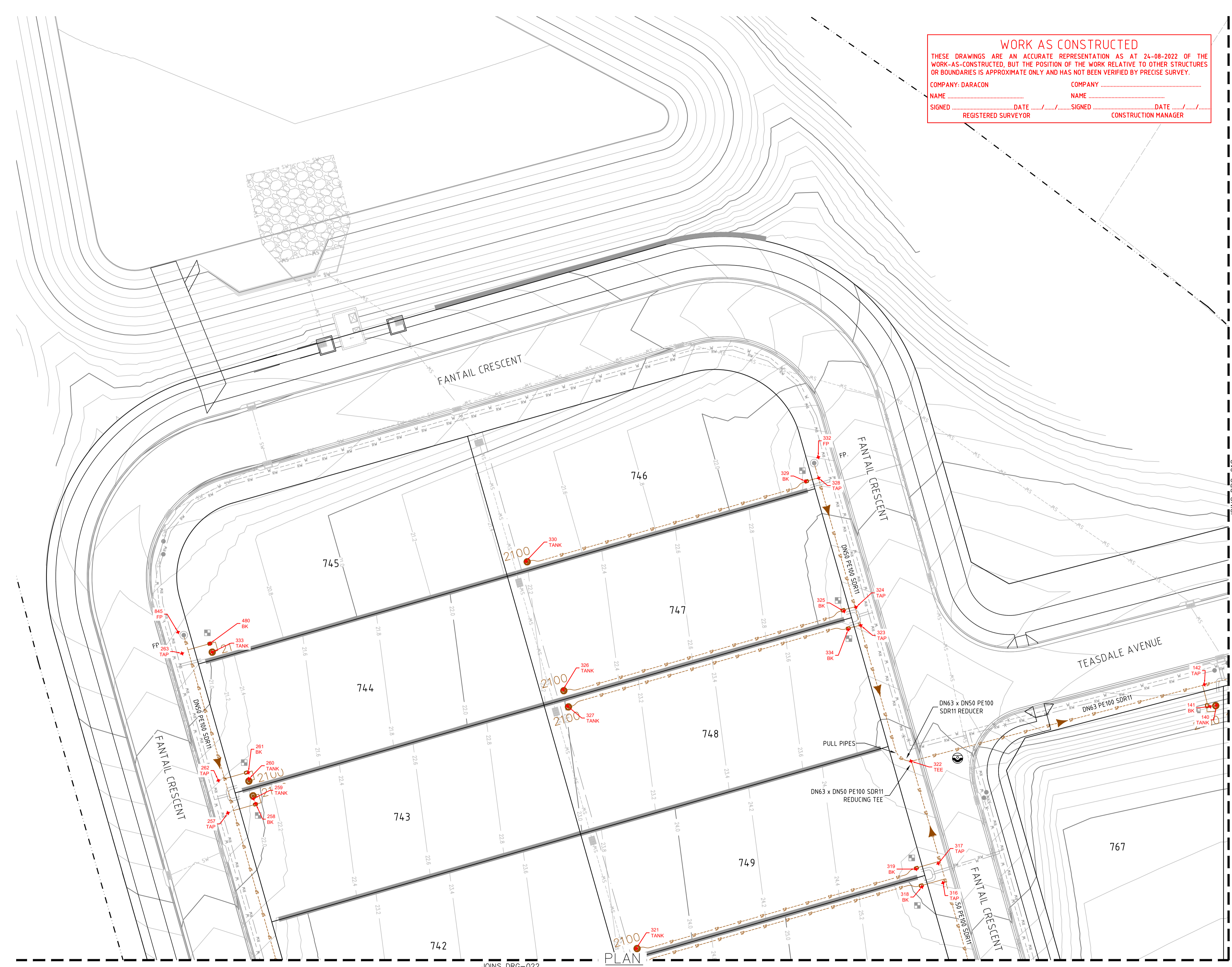
COMPANY: DARACON COMPANY: _____
 NAME: _____ NAME: _____
 SIGNED: _____ DATE: ____/____/____ SIGNED: _____ DATE: ____/____/____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

- LEGEND**
- SP-----SP PE PRESSURE SEWER RETICULATION
 - PS S-----PE PRESSURE SEWER PROPERTY SERVICE
 - W-----W PVC-M POTABLE WATER RETICULATION
 - PWS-----PWS POTABLE WATER PROPERTY SERVICE
 - RW-----RW PVC-M RECYCLED WATER RETICULATION
 - RWS-----RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS-----EXISTING PRESSURE SEWER RETICULATION
 - EX PW-----EXISTING POTABLE WATER RETICULATION
 - EX RW-----EXISTING RECYCLED WATER RETICULATION
 - SW-----SW STORMWATER PIPEWORK
 - IV. [Symbol] ISOLATION VALVE
 - FP. [Symbol] FLUSHING POINT
 - [Symbol] WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - [Symbol] PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
 - [Symbol] PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
 - [Symbol] PROPERTY SERVICE CONNECTION
 - [Symbol] LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - - - - - SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 68 CONNECTIONS
 • SINGLE SERVICES
 -53 x SHORT SIDE
 -15 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN40 (LATERAL)	PE100 SDR11	871
DN50	PE100 SDR11	64.8
DN63	PE100 SDR11	4.90
DN75	PE100 SDR11	121
DN110	PE100 SDR11	98

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 004 TO 009.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-011 TO 016.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-018 TO 024.
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 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT



AS CONSTRUCTED

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3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

SCALE 1:250

JOINS DRG-022

adw Johnson

Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
 Phone: (02) 4978 5100
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 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

WORK AS CONSTRUCTED
~~PROPOSED SUBDIVISION~~

STAGE 3.7
 WATAGAN PARK

SURVEYED: ADW Johnson DATUM: A.H.D.

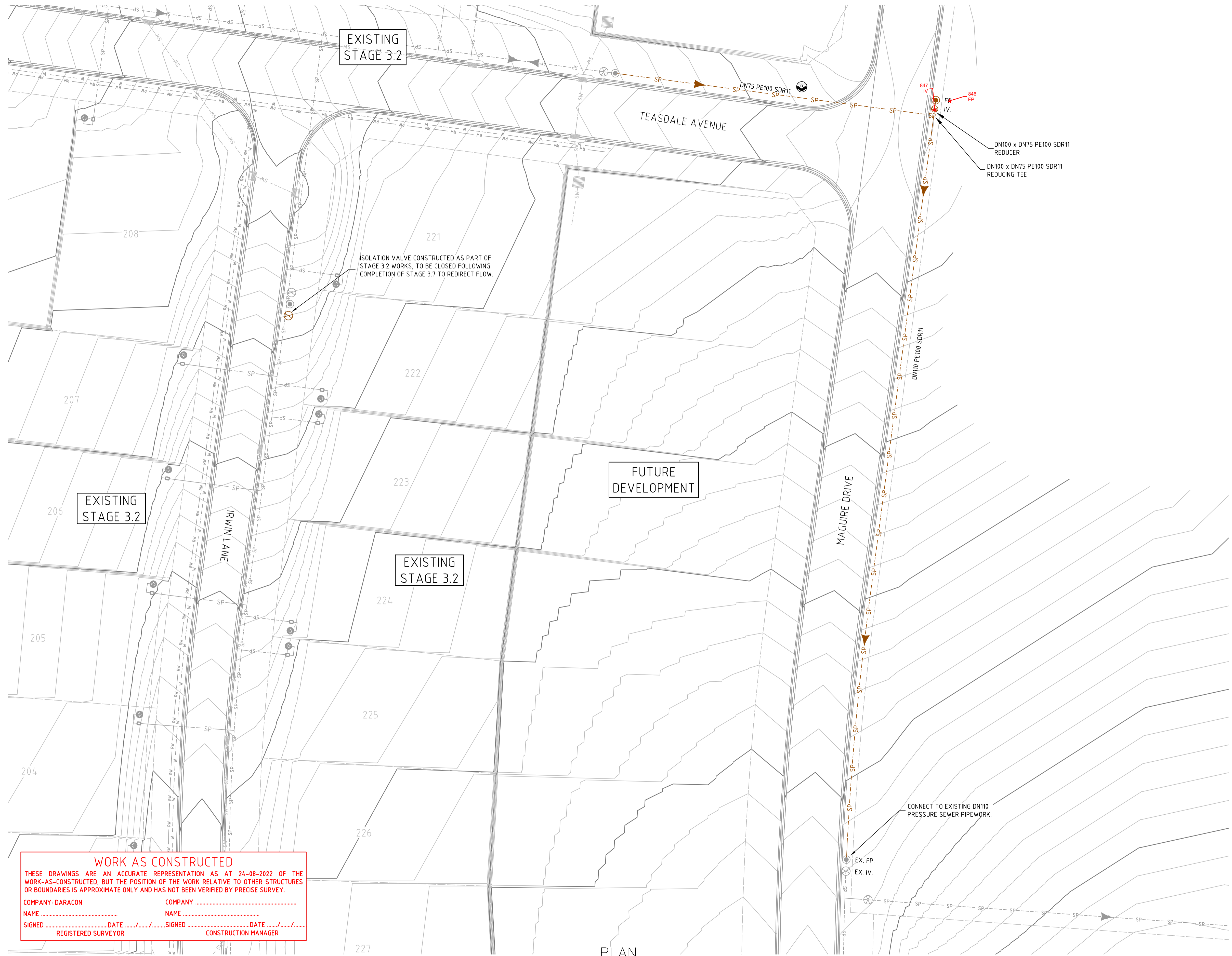
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 6

PROJECT No. 239078(3.7) DISCIPLINE: WAT NUMBER: 023 REV. 43

240075(3.7-3.8)-WAC-301

100mm AT FULL SIZE



LEGEND

- SP-SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- W-W PVC-M POTABLE WATER RETICULATION
- PWS-PWS POTABLE WATER PROPERTY SERVICE
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DN63	PE100 SDR11	490
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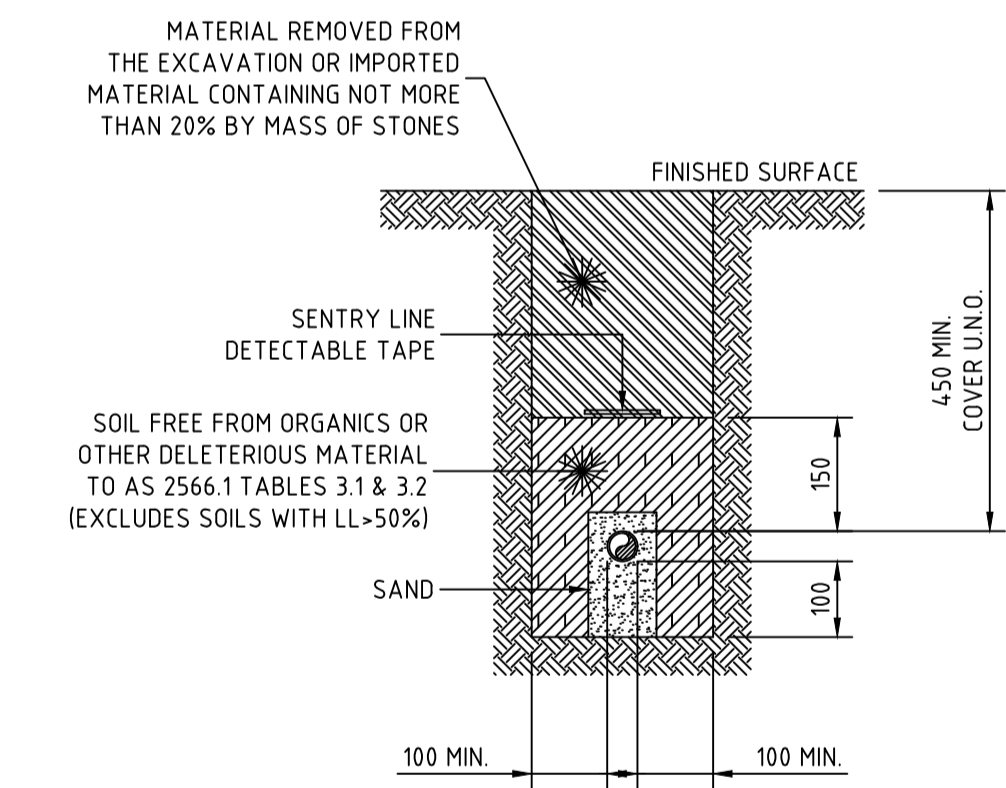
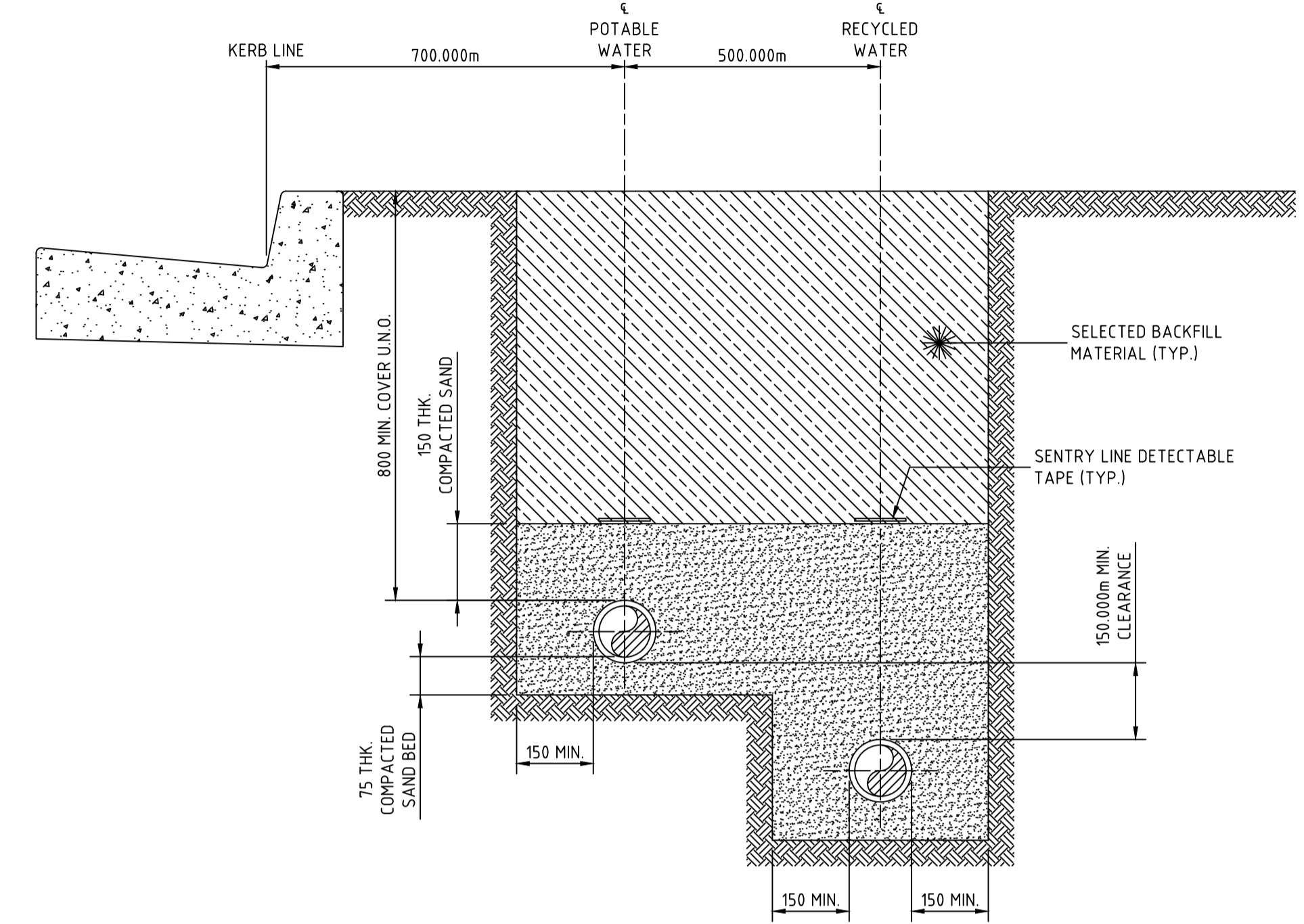
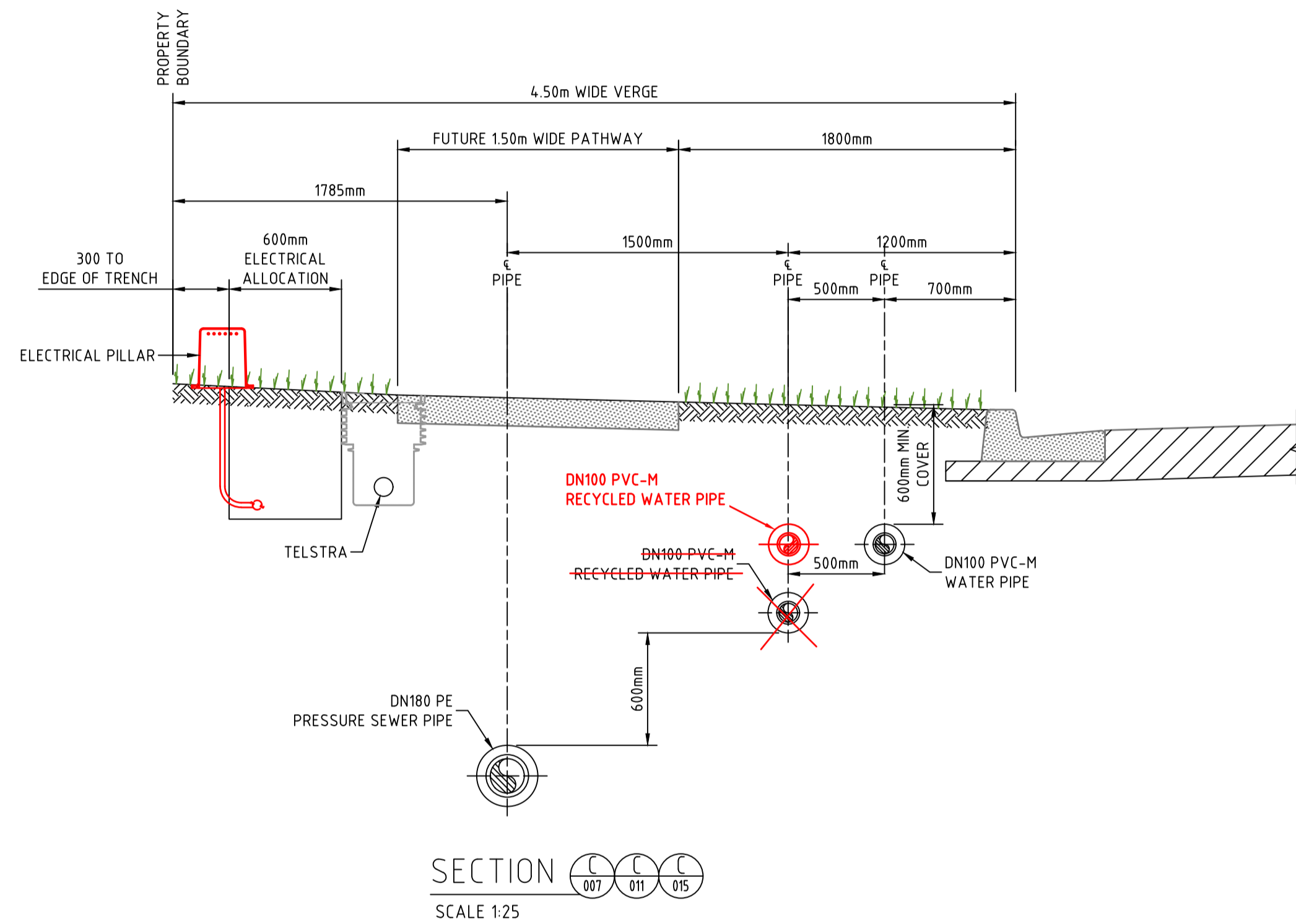
COMPANY: DARACON
 NAME: _____ DATE: _____
 REGISTERED SURVEYOR

COMPANY: _____
 NAME: _____ DATE: _____
 CONSTRUCTION MANAGER

PLAN
 SCALE 1:250

AS CONSTRUCTED

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>20.05.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>J.N.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>B</td> <td>15.06.2021</td> <td>UPDATED POT DETAILS AND LOCATIONS</td> <td>G.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>0</td> <td>08.08.2021</td> <td>CONSTRUCTION ISSUE</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>1</td> <td>12.08.2021</td> <td>ADDITIONAL STOP VALVES</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>2</td> <td>16.09.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>N.C.</td> <td>T.S.</td> <td>M-P.C.</td> </tr> <tr> <td>3</td> <td>27.09.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>N.C.</td> <td>T.S.</td> <td>M-P.C.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>WORK AS CONSTRUCTED PROPOSED SUBDIVISION STAGE 3.7 WATAGAN PARK</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 7</p>	<p>SURVEYED ADW Johnson</p> <p>DATUM A.H.D.</p>	<p>PROJECT No. 239078(3.7)</p> <p>DISCIPLINE - WAT</p> <p>NUMBER - 024</p> <p>REV. 3</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																		
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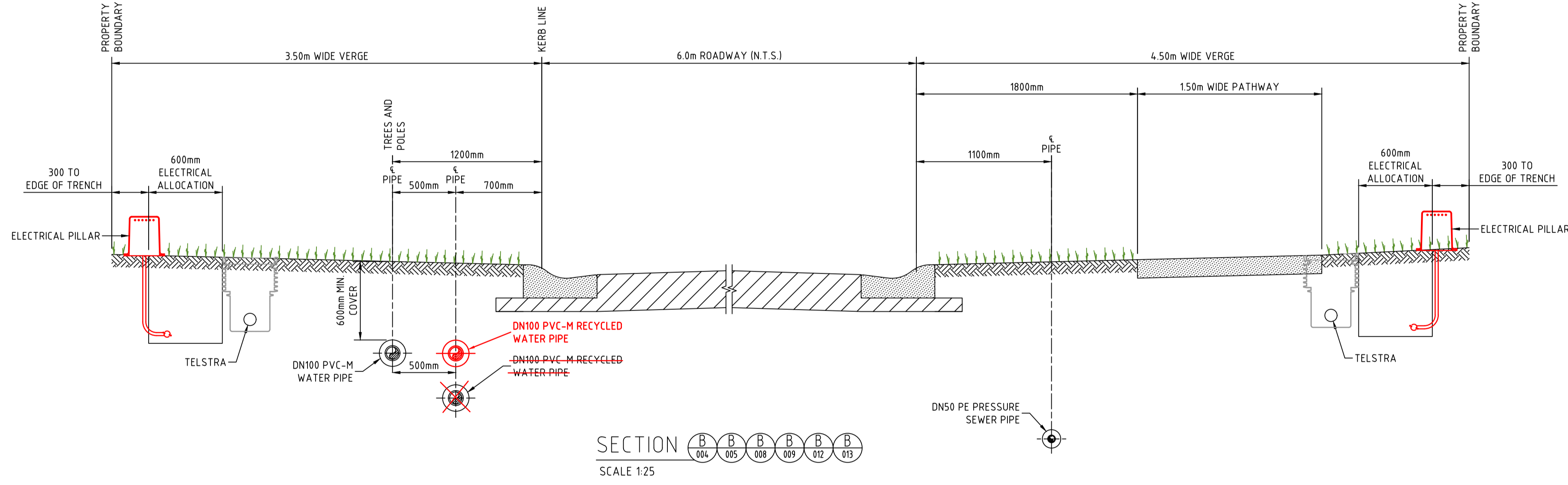
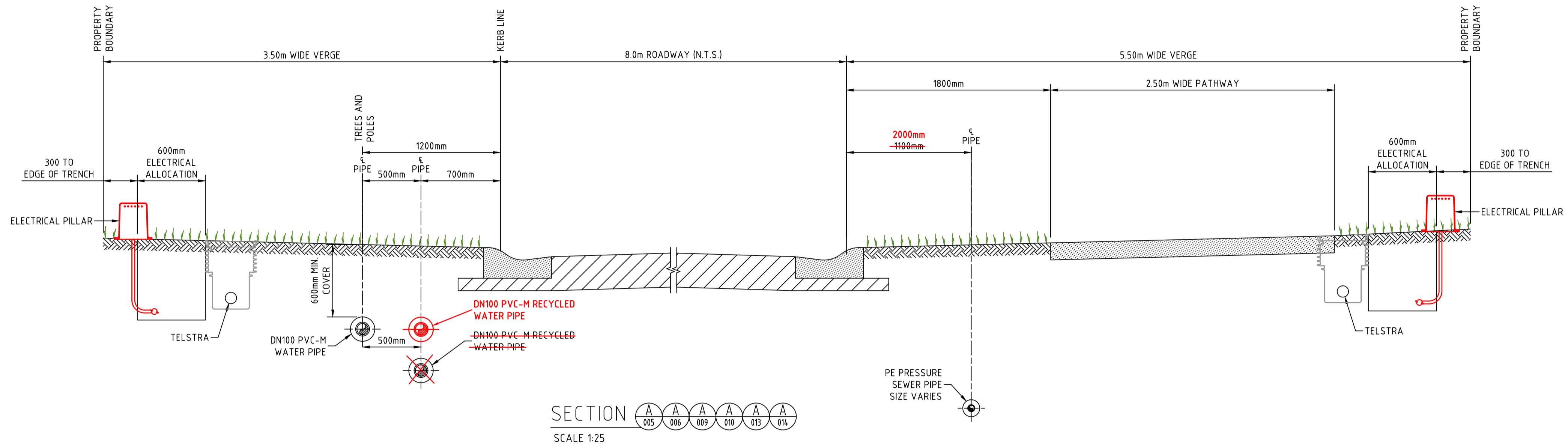


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 COMPANY: DARACON COMPANY
 NAME: NAME
 SIGNED: DATE SIGNED: DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

PLAN
SCALE 1:250

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	 A1 / A3 1:20 / 1:40	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	WORK AS CONSTRUCTED PROPOSED SUBDIVISION STAGE 3.7 WATAGAN PARK	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL CROSS SECTIONS - A & B	ADW Johnson	A.H.D.	239078(3.7)	- WAT -	025	43	
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.												
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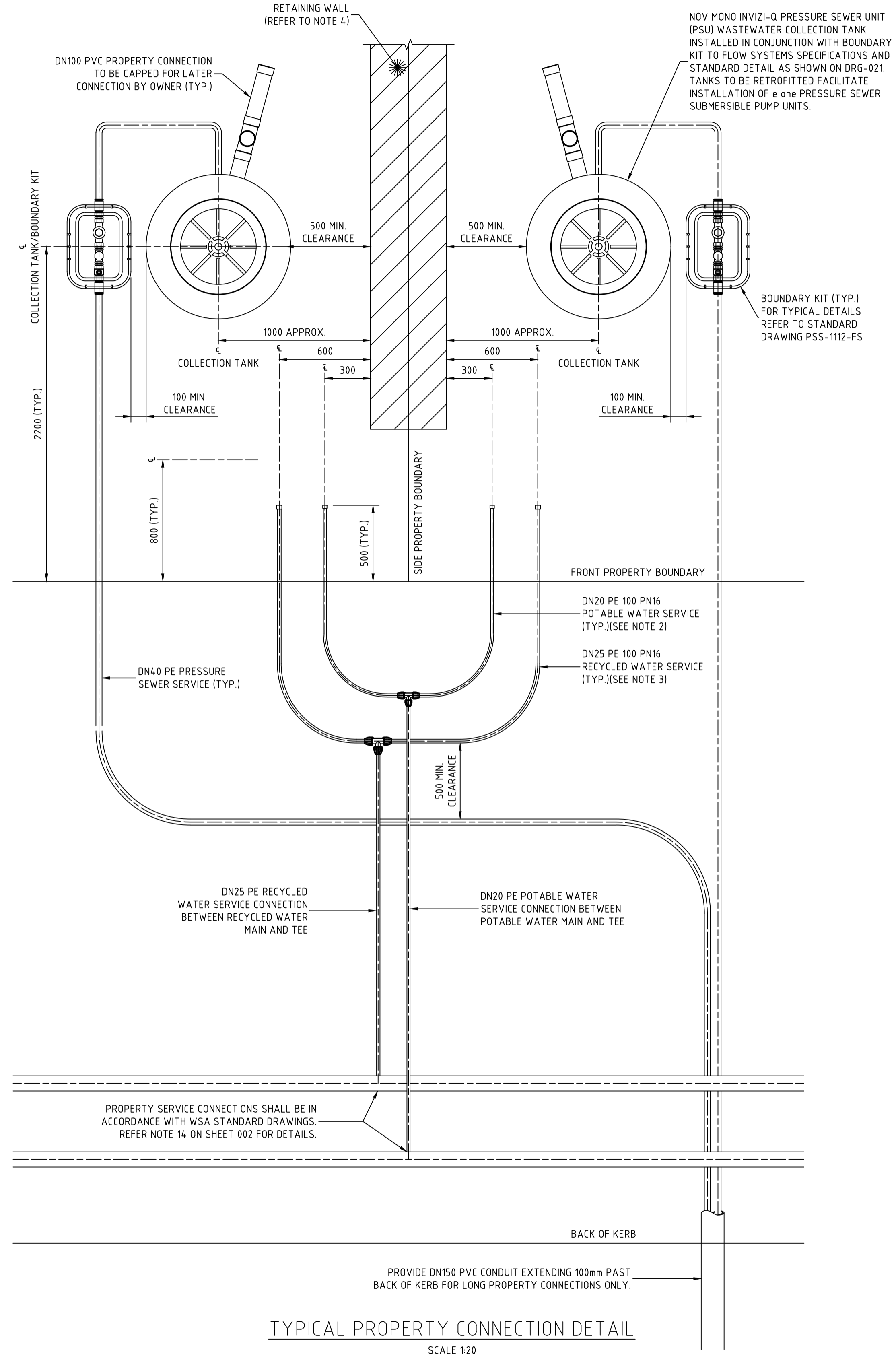
COMPANY: DARACON
 NAME: DATE: SIGNED:
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

- NOTES:
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

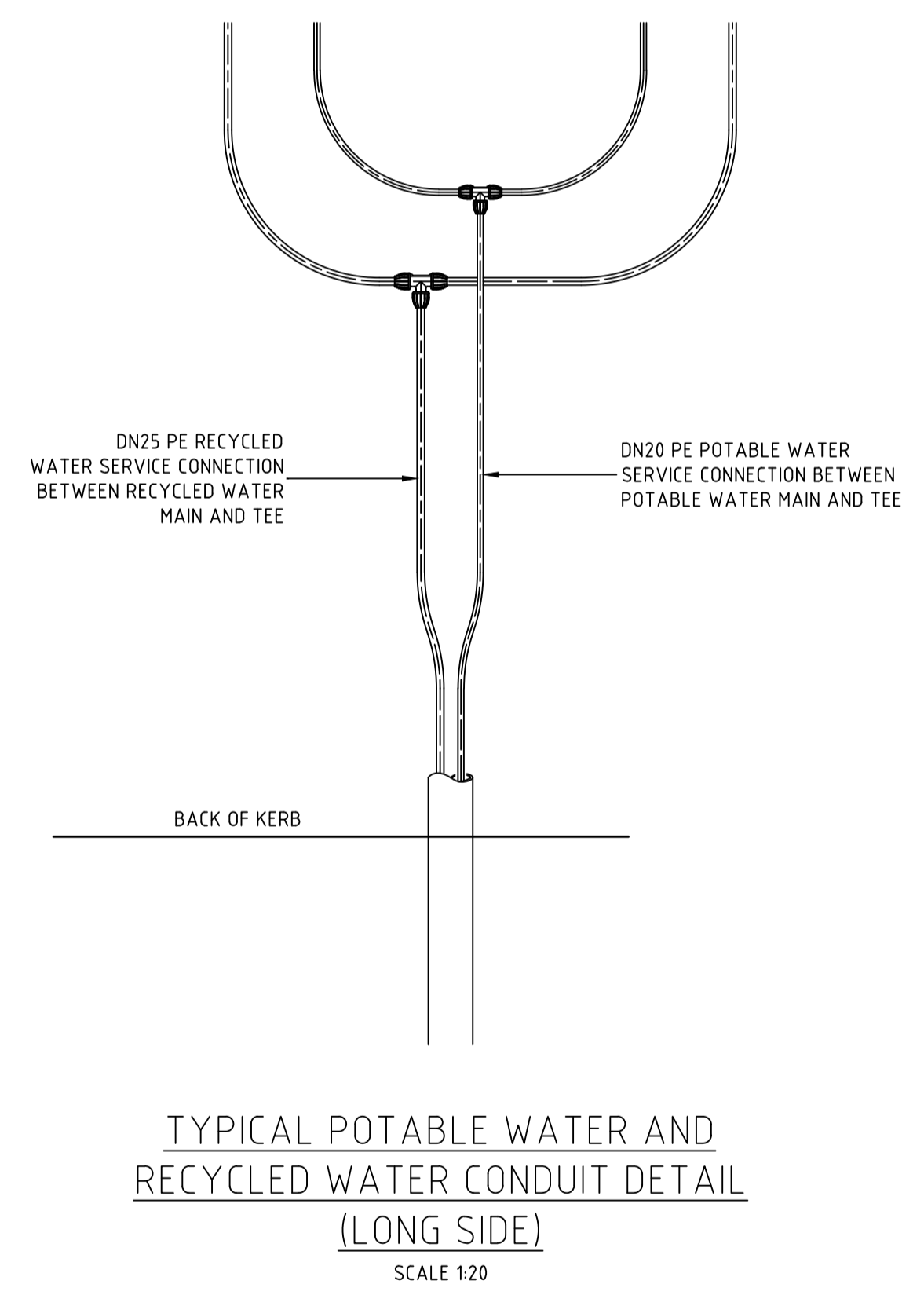
PLAN
SCALE 1:250

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	CLIENT	JOHNSON PROPERTY GROUP	PROPERTY DESCRIPTION	PROJECT	DISCIPLINE	NUMBER	REV.
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	0 0.1 0.2 0.3 0.4 A1 / A3		CLIENT JOHNSON PROPERTY GROUP		WORK AS CONSTRUCTED PROPOSED SUBDIVISION STAGE 3.7 WATAGAN PARK	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PROJECT No. 239078(3.7)	- WAT -	026
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	1:10 / 1:20	SURVEYED ADW Johnson		DATUM A.H.D.					
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.									
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.									
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.									
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.									

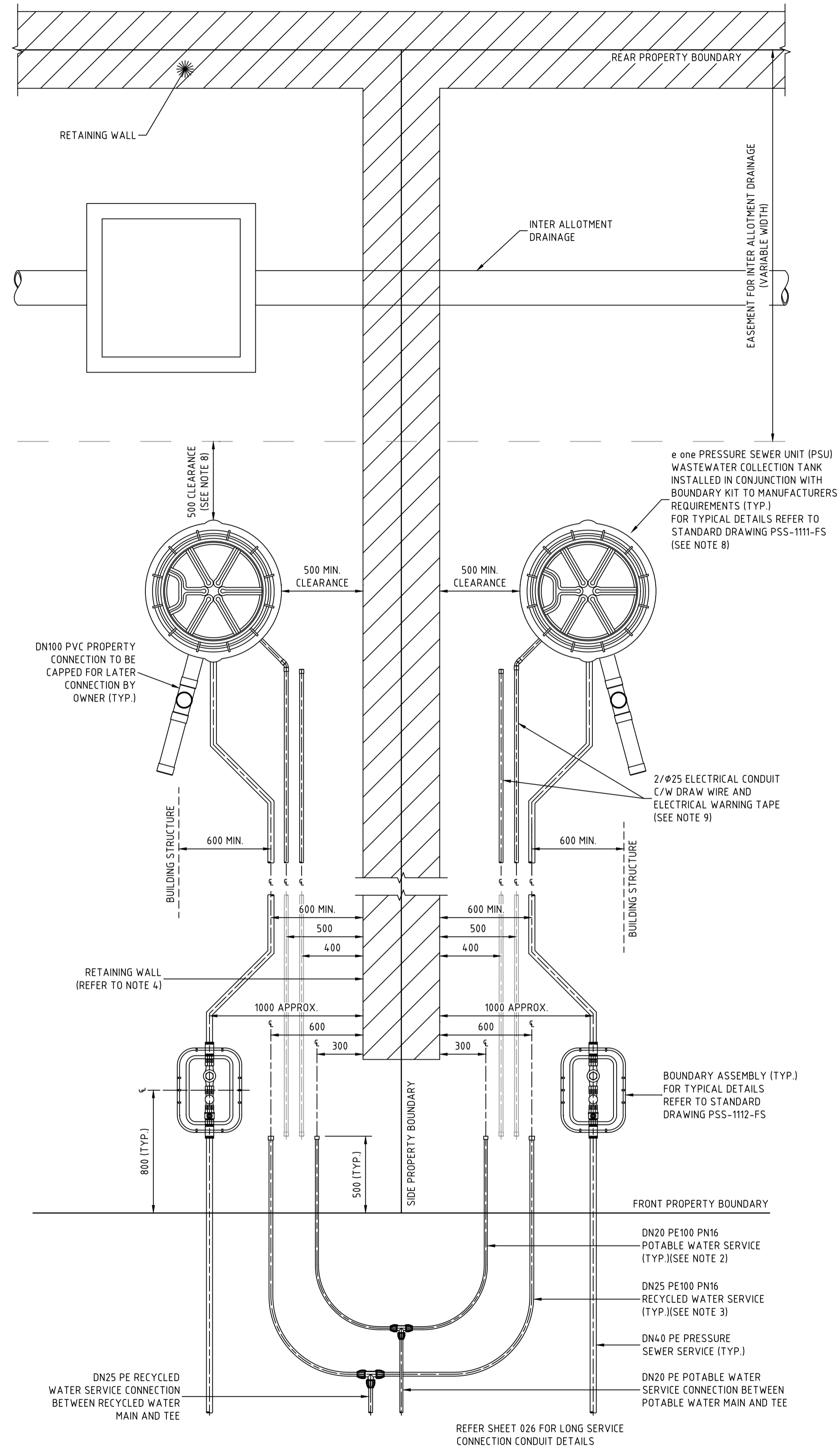


- NOTES:**
- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
 - DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
 - DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
 - FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
 - WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
 - MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
 - ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
 - PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
 - Ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
 - FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
 - FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.



AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	CLIENT		PROPERTY DESCRIPTION		PROJECT	PLAN TITLE	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(3.7)	DISCIPLINE - WAT -	NUMBER 027	REV. 43
WORK AS CONSTRUCTED PROPOSED SUBDIVISION		STAGE 3.7 WATAGAN PARK		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		TYPICAL PROPERTY CONNECTION - SHEET 1														
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.		CLIENT	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.				
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.														
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.														
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	HUNTER OFFICE	WATAGAN PARK	TYPICAL PROPERTY CONNECTION - SHEET 1	ADW Johnson	A.H.D.	239078(3.7)	- WAT -	027	43				
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.														
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.														



TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)

PLAN
SCALE 1: 250

SCALE 1:20

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.	0 0.1 0.2 0.3 0.4 A1 / A3
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.	1:10 / 1:20
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	0 0.4 0.8 A1 / A3
1	12.08.2021	ADDITIONAL STOP VALVES	T.S.	R.J.	T.S.	R.J.	1:20 / 1:40
2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.	

adw Johnson

Hunter Office
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ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

~~PROPOSED SUBDIVISION~~
WORK AS CONSTRUCTED

STAGE 3.7
WATAGAN PARK

SURVEYED
ADW Johnson

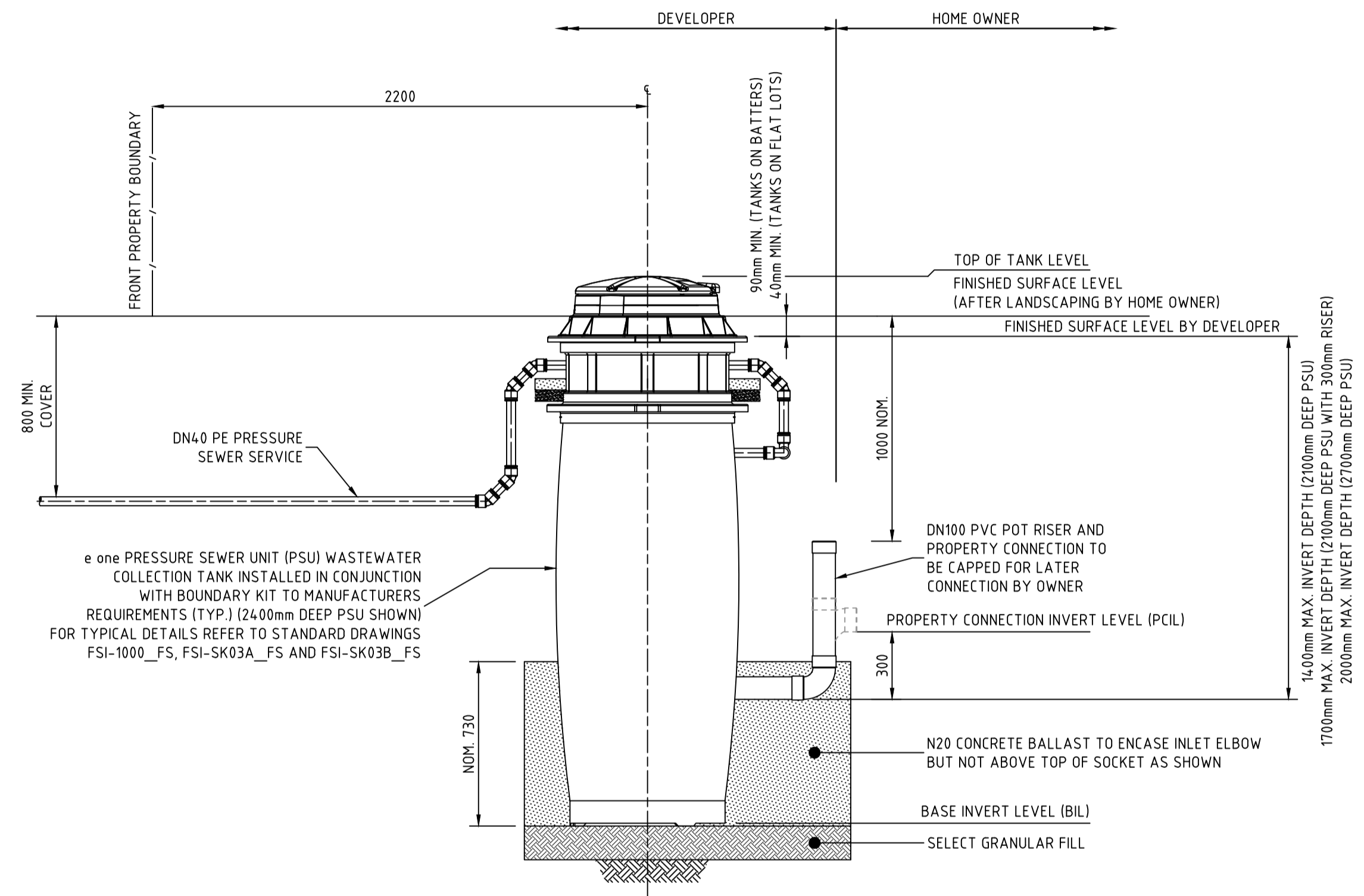
DATUM
A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL PROPERTY CONNECTION - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.7)	- WAT -	028	43



WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	BASE IL	CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING	TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
701	30.87	28.74	29.64	2100	FRONT	355557.77	634.098197	30.97	29.66	0.01
702	29.64	27.51	28.41	2100	FRONT	355544.17	634.096812	29.72	28.41	-0.01
703	29.33	27.20	28.10	2100	FRONT	355542.72	634.096645	29.39	28.08	-0.02
704	29.89	27.76	28.66	2100	FRONT	355508.91	634.100608	29.97	28.66	-0.01
705	31.29	29.16	30.06	2100	FRONT	355508.11	634.100791	31.44	30.13	0.07
706	31.69	29.56	30.46	2100	FRONT	355494.63	634.103888	31.77	30.46	-0.01
707	31.73	29.60	30.50	2100	FRONT	355493.83	634.104012	31.73	30.42	-0.09
708	31.51	29.38	30.28	2100	FRONT	355487.25	634.105585	31.62	30.31	0.02
709	30.03	27.90	28.80	2100	FRONT	355473.78	634.108679	30.13	28.82	0.01
710	29.40	27.27	28.17	2100	FRONT	355472.98	634.108862	29.68	28.37	0.20
711	25.43	23.30	24.20	2100	FRONT	355463.86	634.115255	25.50	24.19	-0.02
712	25.77	23.64	24.54	2100	FRONT	355465.21	634.115447	25.77	24.46	-0.09
713	26.59	24.46	25.36	2100	FRONT	355477.24	634.116808	26.69	25.38	0.02
714	26.10	23.97	24.87	2100	FRONT	355469.43	634.121019	26.30	24.99	0.12
715	26.09	23.96	24.86	2100	FRONT	355468.88	634.121211	26.29	24.97	0.11
716	25.68	23.55	24.45	2100	FRONT	355422.92	634.112295	24.77	23.46	-0.01
717	27.84	25.71	26.61	2100	REAR	355431.93	634.106717	28.06	26.75	0.13
718	29.09	26.36	27.26	2700	FRONT	355458.21	634.107645	29.34	28.03	0.17
719	29.45	27.32	28.22	2100	REAR	355445.50	634.103600	29.60	27.69	0.07
720	30.20	28.07	28.97	2100	REAR	355446.28	634.103420	30.20	28.89	-0.09
721	30.20	28.07	28.97	2100	REAR	355460.67	634.100116	30.30	28.99	0.02
722	29.45	27.32	28.22	2100	REAR	355461.47	634.099932	29.62	28.30	0.08
723	29.16	26.43	27.33	2700	FRONT	355498.12	634.098476	29.08	27.77	-0.16
724	27.84	25.71	26.61	2100	REAR	355473.44	634.097182	28.01	26.70	0.09
725	25.69	23.56	24.46	2100	FRONT	355508.47	634.092892	25.88	24.57	0.10
726	25.44	23.31	24.21	2100	FRONT	355506.87	634.092760	25.53	24.22	0.00
727	24.00	21.87	22.77	2100	FRONT	355480.87	634.090714	24.15	22.84	0.06
728	23.91	21.78	22.68	2100	FRONT	355479.15	634.090609	24.04	22.73	0.04
758	26.27	23.54	24.44	2700	FRONT	355432.54	634.093485	26.50	25.19	0.15
729	23.50	21.37	22.27	2100	FRONT	355438.13	634.088743	23.68	22.37	0.09
730	23.49	21.36	22.26	2100	FRONT	355436.30	634.088663	23.67	22.36	0.10
731	23.39	21.26	22.16	2100	FRONT	355405.58	634.087326	23.62	22.31	0.15
732	23.39	21.26	22.16	2100	FRONT	355403.75	634.087246	23.56	22.25	0.08
733	23.02	22.89	23.79	2100	FRONT	355367.55	634.090654	25.30	23.99	0.20
734	25.46	23.33	24.23	2100	FRONT	355366.75	634.090838	25.71	24.39	0.16
735	26.47	24.34	25.24	2100	FRONT	355355.73	634.093609	26.67	25.36	0.12
736	26.49	24.36	25.26	2100	FRONT	355354.93	634.093793	26.65	25.34	0.07
737	26.39	24.26	25.16	2100	FRONT	355343.41	634.096598	26.6	25.29	0.13
738	26.21	24.08	24.98	2100	FRONT	355342.53	634.096778	26.472	25.16	0.18
739	25.12	22.99	23.89	2100	FRONT	355324.16	634.099198	25.232	23.92	0.03
748	23.10	20.97	21.87	2100	REAR	355312.88	634.107322	23.216	21.90	0.03
749	23.94	21.81	22.71	2100	REAR	355333.61	634.107186	24.19	22.88	0.16
750	24.70	22.57	23.47	2100	REAR	355335.00	634.104623	24.96	23.65	0.18
751	25.55	23.42	24.32	2100	REAR	355356.71	634.109186	25.78	24.47	0.15
752	26.30	24.17	25.07	2100	REAR	355358.06	634.101812	26.5	25.19	0.11
753	27.25	25.12	26.02	2100	REAR	355377.31	634.098700	27.34	26.03	0.00
754	27.96	25.83	26.73	2100	REAR	355378.24	634.098518	28.08	26.77	0.03
755	28.29	25.86	26.76	2400	FRONT	355419.04	634.096586	28.37	27.06	0.00
756	28.10	25.37	26.27	2700	FRONT	355419.84	634.096402	28.23	26.92	0.05
757	26.74	24.61	25.51	2100	FRONT	355413.74	634.093668	26.86	25.55	0.04
759	27.22	25.09	25.99	2100	FRONT	355423.38	634.095833	27.22	25.91	-0.09
760	27.63	25.50	26.40	2100	FRONT	355441.59	634.096025	27.81	26.50	0.09
761	28.79	26.66	27.56	2100	FRONT	355430.41	634.098584	28.94	27.63	0.07
762	29.16	27.03	27.93	2100	FRONT	355429.61	634.098767	29.43	28.12	0.18
763	29.02	26.89	27.79	2100	FRONT	355415.24	634.102068	29.16	27.85	0.05
764	28.63	26.50	27.40	2100	FRONT	355414.44	634.102252	28.81	27.50	0.09
765	27.36	25.23	26.13	2100	FRONT	355400.60	634.105139	27.56	26.25	0.11
766	27.12	24.99	25.89	2100	FRONT	355399.56	634.105312	27.12	25.81	-0.09
767	24.26	22.13	23.03	2100	FRONT	355390.35	634.110706	24.26	22.95	-0.09
768	24.25	22.12	23.02	2100	FRONT	355391.98	634.110834	24.41	23.10	0.07
769	24.65	22.52	23.42	2100	FRONT	355421.01	634.112233	24.71	23.40	-0.02
740	24.73	22.60	23.50	2100	FRONT	355327.89	634.099353	24.93	23.62	0.11
741	23.53	21.40	22.30	2100	FRONT	355301.96	634.101905	23.68	22.37	0.06
742	23.16	21.03	21.93	2100	FRONT	355300.69	634.102059	23.35	22.04	0.11
743	21.95	19.82	20.72	2100	FRONT	355279.72	634.104616	22.2	20.89	0.16
744	21.56	19.43	20.33	2100	FRONT	355278.45	634.104770	21.73	20.42	0.09
745	20.82	18.69	19.59	2100	FRONT	355267.36	634.106123	20.82	19.51	-0.09
746	21.55	19.42	20.32	2100	REAR	355300.38	634.108845	21.75	20.44	0.11
747	22.34	20.21	21.11	2100	REAR	355311.48	634.107492	22.47	21.16	0.04



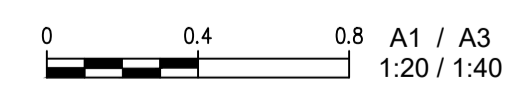
PRESSURE SEWER SERVICE CONNECTION TYPICAL SECTIONAL ELEVATION SCALE 1:20

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24-08-2022 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY: DARACON COMPANY: _____
 NAME: _____ NAME: _____
 SIGNED: _____ DATE: _____ SIGNED: _____ DATE: _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

PLAN SCALE 1:250



Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
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 www.adwjohnson.com.au
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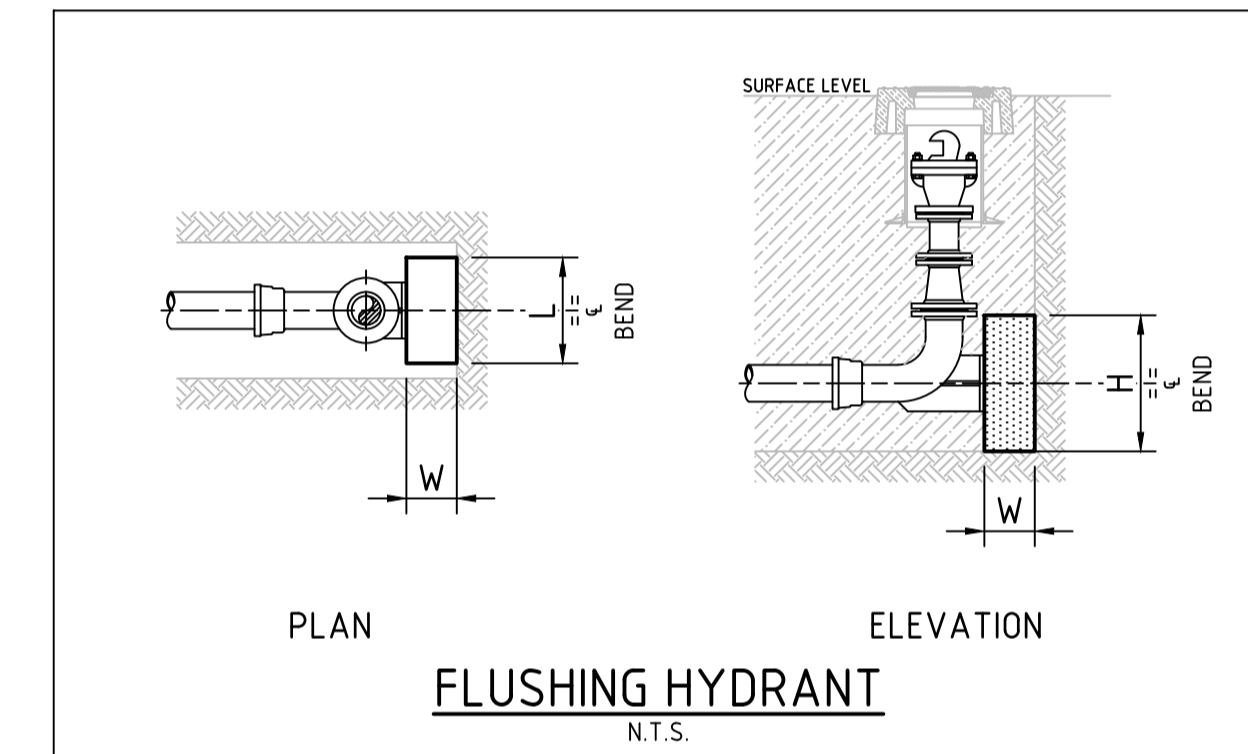
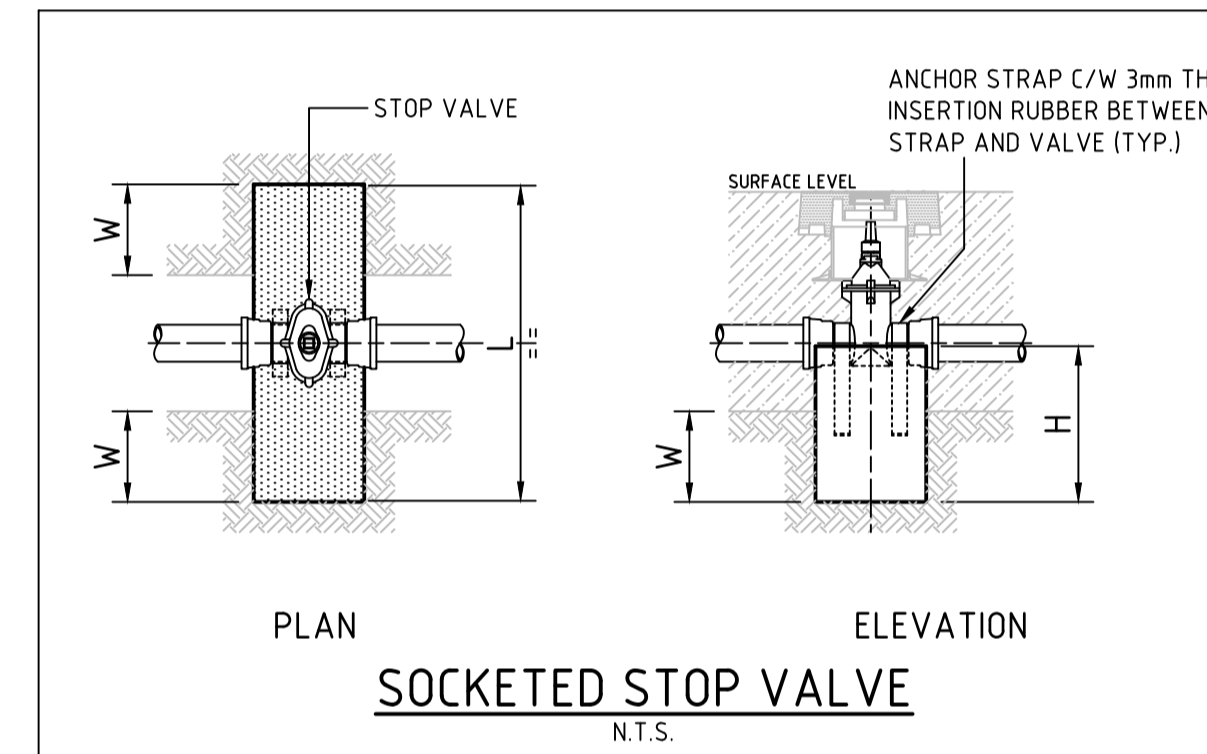
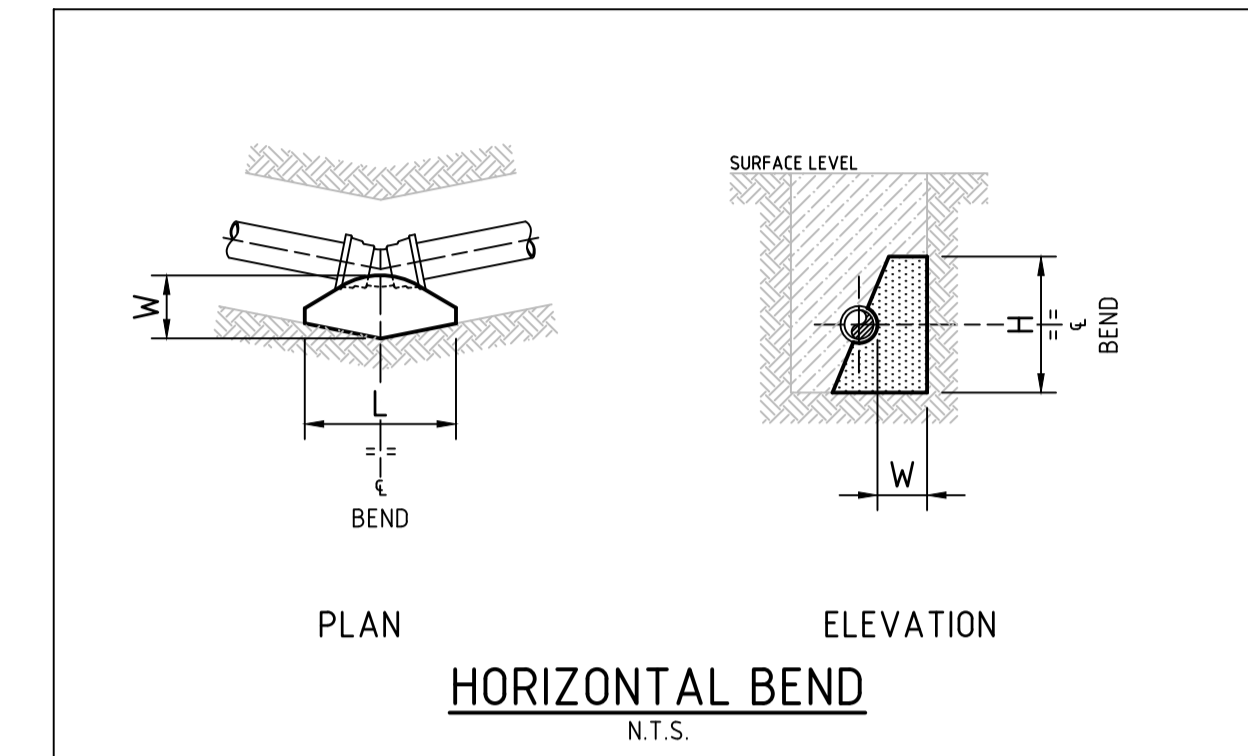
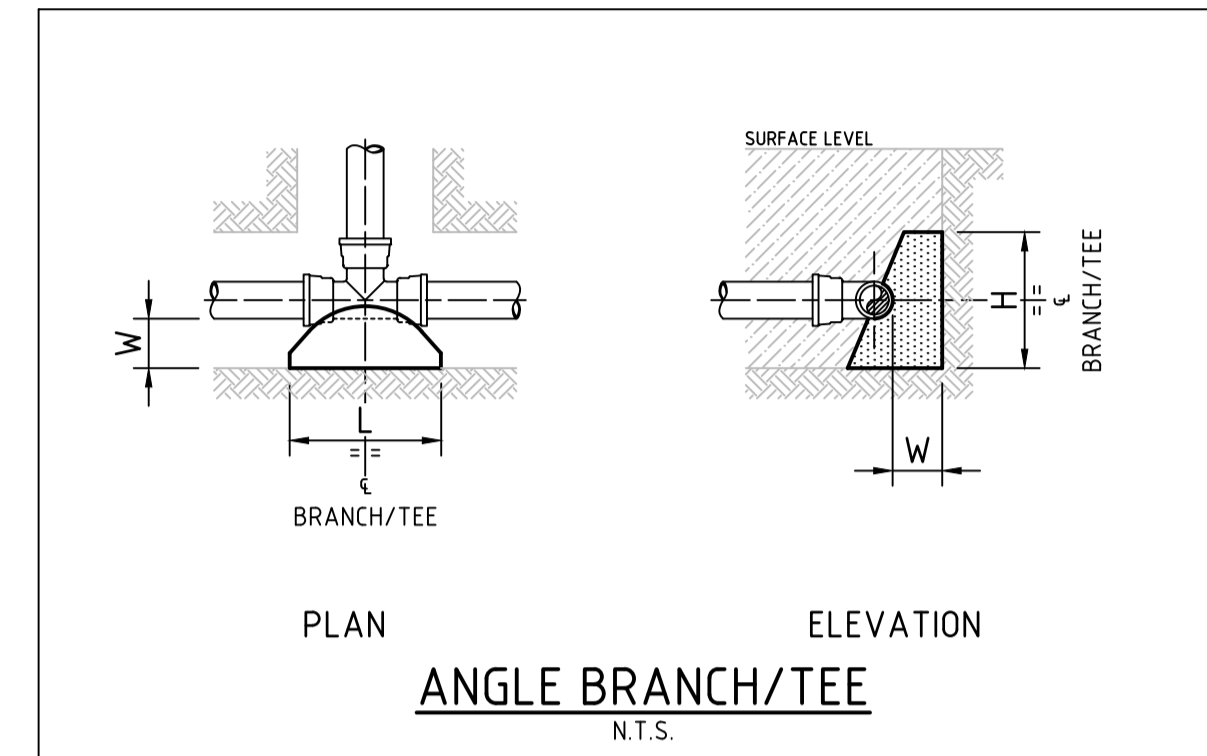
CLIENT	PROPERTY DESCRIPTION WORK AS CONSTRUCTED PROPOSED SUBDIVISION STAGE 3.7 WATAGAN PARK	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
		PLAN TITLE SEWER SERVICE CONNECTION DETAILS
SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(3.7)
		DISCIPLINE - WAT -
		NUMBER 029
		REV. 43

AS CONSTRUCTED

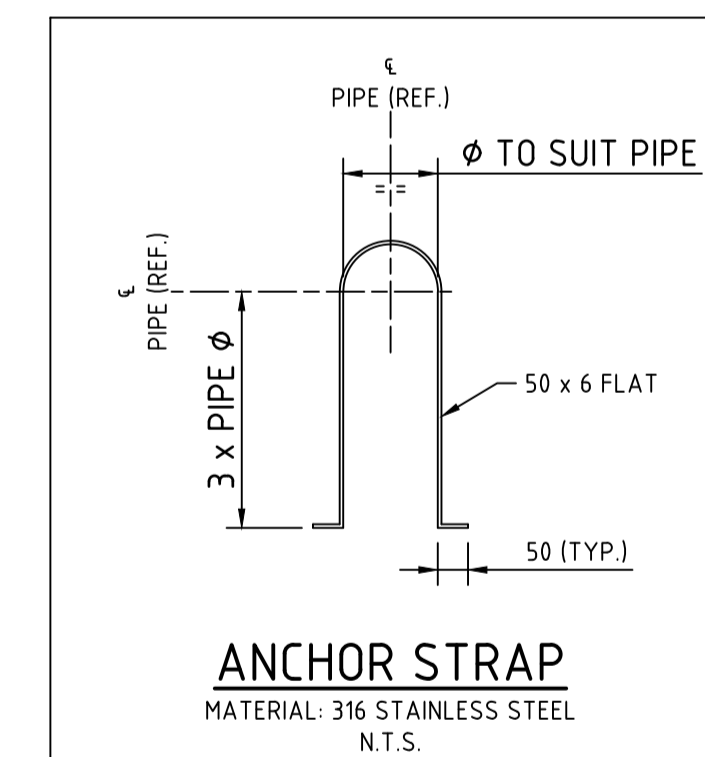


THRUST BLOCK NOTES:

1. "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
2. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
3. THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING PRESSURES MAY NOT BE ACHIEVED, THRUST BLOCK DESIGN IS TO BE REVISED.
4. THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
5. FINISH THRUST BLOCKS APPROXIMATELY 100mm ABOVE THE TOP OF THE FITTING OR BEARING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NECESSARY TO ACHIEVE THE REQUIRED THRUST AREA. MAXIMUM ENCASEMENT TO BE 180°.
6. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
7. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
8. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
9. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
10. THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
11. PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.



TYPE	FITTING	SOIL AHP (kPa)	DESIGN STP (kPa)	THRUST	TA (m ²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.4	0.30
2	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.4	0.30



PLAN
SCALE 1:250

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
A	20.05.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	R.J.		 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	WORK AS CONSTRUCTED PROPOSED SUBDIVISION STAGE 3.7 WATAGAN PARK	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	THRUST BLOCK DETAILS	ADW Johnson	A.H.D.	239078(3.7)	- WAT -	030	43	
B	15.06.2021	UPDATED POT DETAILS AND LOCATIONS	G.S.	R.J.	T.S.	R.J.												
0	08.08.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.												
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2	16.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.												
3	27.09.2022	WORK AS CONSTRUCTED	G.S.	N.C.	T.S.	M-P.C.												

Services Points Table			
Point #	Eastings	Northings	Codes
1	355448.43	6341226.70	FL
2	355448.72	6341225.54	SV
3	355454.62	6341206.60	TAP
4	355473.46	6341171.50	TEE
5	355475.22	6341172.91	TAP
6	355470.81	6341168.91	SV
7	355461.13	6341157.30	TAP
8	355450.97	6341144.14	SV
9	355443.48	6341137.76	TEE
10	355447.97	6341131.14	SV
11	355432.27	6341131.28	SV
12	355421.18	6341127.63	TAP
13	355467.86	6341085.70	TAP
14	355469.39	6341082.36	TAP
15	355482.29	6341052.61	TAP
16	355482.73	6341051.15	TAP
17	355488.69	6341037.55	HYD
18	355496.50	6341019.86	TAP
19	355497.80	6341016.03	TAP
20	355508.88	6340991.35	TAP
21	355509.83	6340988.81	TAP
22	355533.19	6340946.67	TEE
23	355546.42	6340963.56	TAP
24	355560.85	6340977.94	TAP
25	355520.12	6340932.33	SV
26	355510.31	6340924.07	TAP
27	355483.26	6340902.55	TAP
28	355464.38	6340893.45	TEE
29	355439.44	6340882.55	TAP
30	355406.73	6340868.48	TAP
31	355380.27	6340865.46	HYD
32	355362.77	6340905.67	TAP
33	355457.50	6340908.85	SV
34	355443.53	6340904.42	TAP
35	355436.47	6340956.65	TAP
36	355430.37	6340970.84	TAP
37	355424.98	6340984.64	TAP
38	355417.27	6341001.79	HYD
39	355415.39	6341005.78	TAP
40	355409.63	6341018.53	TAP
41	355396.03	6341047.41	TAP
42	355394.98	6341049.54	TAP
43	355350.63	6340935.23	TAP
44	355346.30	6340946.00	HYD
45	355339.14	6340964.08	TAP
46	355320.02	6340989.58	TAP
47	355297.76	6341016.84	TAP
48	355275.53	6341043.62	TAP
49	355263.66	6341058.21	TAP
50	355256.51	6341068.17	HYD

Services Points Table			
Point #	Eastings	Northings	Codes
51	355333.10	6341114.28	TAP
52	355344.52	6341100.50	TAP
53	355395.32	6341087.03	SV
54	355355.26	6341087.03	BEND
55	355362.14	6341091.21	TEE
56	355371.55	6341097.90	SV
57	355388.43	6341112.09	TAP
58	355367.24	6341084.50	HYD
59	355368.18	6341083.58	SV
60	355372.38	6341077.89	TAP
61	355448.04	6341226.77	FL
62	355448.37	6341224.71	SV
63	355453.74	6341206.77	TAP
64	355475.61	6341172.97	TAP
65	355462.04	6341157.37	TAP
66	355451.52	6341144.36	SV
67	355444.37	6341137.74	TEE
68	355448.11	6341131.69	SV
69	355432.76	6341131.16	SV
70	355421.31	6341127.44	TAP
71	355468.30	6341085.90	TAP
72	355469.62	6341082.41	TAP
73	355482.50	6341052.97	TAP
74	355482.90	6341051.27	TAP
75	355496.75	6341019.99	TAP
76	355498.06	6341016.26	TAP
77	355508.84	6340991.79	TAP
78	355510.62	6340988.91	TAP
79	355533.13	6340947.10	TEE
80	355546.15	6340963.76	TAP
81	355560.30	6340978.18	TAP
82	355519.54	6340932.25	SV
83	355510.04	6340924.24	TAP
84	355483.16	6340902.76	TAP
85	355464.47	6340894.01	TEE
86	355457.59	6340909.52	SV
87	355443.94	6340940.55	TAP
88	355439.06	6340882.96	TAP
89	355406.50	6340868.59	TAP
90	355379.66	6340866.40	HYD
91	355363.24	6340905.64	TAP
92	355350.92	6340935.53	TAP
93	355346.39	6340946.92	HYD
94	355339.50	6340964.36	TAP
95	355320.30	6340989.82	TAP
96	355298.06	6341017.01	TAP
97	355436.69	6340957.17	TAP
98	355430.61	6340971.10	TAP
99	355425.09	6340984.71	TAP
100	355415.70	6341005.95	HYD

Services Points Table			
Point #	Eastings	Northings	Codes
101	355409.72	6341018.73	TAP
102	355396.47	6341047.84	TAP
103	355395.32	6341049.89	TAP
104	355372.50	6341078.07	TAP
105	355275.75	6341043.72	TAP
106	355263.91	6341058.36	TAP
107	355332.38	6341114.10	TAP
108	355344.31	6341100.27	TAP
109	355355.32	6341086.55	SV
110	355356.33	6341085.64	BEND
111	355362.57	6341091.21	TEE
112	355389.09	6341111.95	TAP
113	355462.97	6341211.63	TAP
114	355468.76	6341212.94	BK
115	355468.98	6341212.30	TANK
116	355469.29	6341210.64	TANK
117	355469.65	6341209.53	BK
118	355464.16	6341207.42	TAP
119	355479.86	6341188.84	TEE
120	355475.72	6341171.92	TAP
121	355481.97	6341190.10	IV
122	355477.44	6341168.21	TANK
123	355462.77	6341157.55	TAP
124	355466.26	6341154.94	BK
125	355465.37	6341155.05	TANK
126	355480.69	6341189.02	FP
127	355463.67	6341152.61	TANK
128	355462.90	6341152.41	BK
129	355460.32	6341153.84	TAP
130	355438.53	6341132.45	TEE
131	355422.83	6341126.95	TAP
132	355423.72	6341123.27	BK
133	355422.93	6341123.01	TANK
134	355421.07	6341122.36	TANK
135	355420.35	6341122.01	BK
136	355418.72	6341125.64	TAP
137	355391.00	6341111.56	TAP
138	355392.57	6341108.87	BK
139	355391.86	6341108.45	TANK
140	355390.40	6341107.15	TANK
141	355389.72	6341106.67	BK
142	355387.89	6341109.00	TAP
143	355459.88	6341084.24	TAP
144	355472.82	6341089.18	BK
145	355473.02	6341088.78	TANK
146	355474.25	6341086.46	TANK
147	355474.37	6341085.94	BK
148	355459.88	6341084.06	TAP
149	355461.37	6341080.32	TAP
150	355458.70	6341079.09	BK

Services Points Table			
Point #	Eastings	Northings	Codes
151	355432.02	6341067.30	TANK
152	355458.28	6341076.46	TANK
153	355458.58	6341075.62	BK
154	355463.13	6341077.39	TAP
155	355486.96	6341056.72	BK
156	355487.20	6341055.96	TANK
157	355488.14	6341053.97	TANK
158	355488.47	6341053.21	BK
159	355474.87	6341049.36	TAP
160	355472.14	6341047.85	BK
161	355445.46	6341036.05	TANK
162	355446.36	6341033.88	TANK
163	355473.19	6341045.54	BK
164	355476.16	6341047.05	TAP
165	355476.46	6341046.06	IV
166	355477.26	6341044.22	FP
167	355477.34	6341043.70	IV
168	355487.59	6341020.49	IV
170	355465.37	6341155.05	TANK
171	355487.62	6341019.93	FP
172	355488.32	6341019.01	TAP
173	355500.88	6341023.83	BK
174	355501.36	6341023.17	TANK
175	355502.25	6341021.08	TANK
176	355502.69	6341020.30	BK
177	355488.55	6341018.53	TAP
178	355490.15	6341014.28	TAP
179	355487.26	6341013.07	BK
180	355460.56	6341001.24	TANK
181	355461.49	6340999.07	TANK
182	355488.32	6341010.83	BK
183	355491.02	6341012.06	TAP
184	355501.18	6340989.93	TAP
185	355513.75	6340994.81	BK
186	355514.10	6340994.22	TANK
187	355498.01	6340984.71	TANK
188	355497.68	6340985.38	BK
189	355501.98	6340987.73	TAP
190	355503.39	6340984.64	TAP
191	355500.20	6340983.27	BK
192	355473.45	6340971.66	TANK
193	355526.34	6340940.06	TEE
194	355545.14	6340962.92	TAP
195	355541.85	6340966.04	BK
196	355542.59	6340966.42	TANK
197	355544.51	6340968.15	TANK
198	355545.13	6340968.47	BK
199	355547.77	6340965.80	TAP
200	355560.62	6340978.84	TAP
201	355558.61	6340982.65	BK

Services Points Table			
Point #	Eastings	Northings	Codes
202	355557.93	6340982.29	TANK
203	355511.60	6340926.79	TAP
204	355439.05	6340887.77	BK
205	355508.65	6340928.71	TANK
206	355506.87	6340927.45	TANK
207	355435.95	6340886.19	BK
208	355508.36	6340924.10	TAP
209	355483.41	6340904.74	TAP
210	355482.01	6340907.37	BK
211	355481.21	6340907.03	TANK
212	355478.77	6340905.90	TANK
213	355478.13	6340905.69	BK
214	355479.60	6340902.59	TAP
215	355478.08	6341168.65	BK
217	355455.92	6340891.98	TEE
218	355440.29	6340884.61	TAP
219	355436.54	6340882.86	TAP
220	355438.20	6340887.45	TANK
221	355436.24	6340886.49	TANK
222	355408.06	6340870.54	TAP
223	355403.97	6340868.71	TAP
224	355402.97	6340872.01	BK
225	355406.52	6340873.62	BK
226	355405.73	6340873.35	TANK
227	355403.77	6340872.41	TANK
228	355363.07	6340901.66	TAP
229	355367.94	6340905.48	BK
230	355367.59	6340906.31	TANK
231	355366.37	6340908.59	TANK
232	355366.14	6340909.37	BK
233	355362.74	6340907.98	TAP
234	355352.47	6340933.70	TAP
235	355356.14	6340935.24	TAP
236	355355.74	6340936.01	TANK
237	355354.78	6340937.96	TANK
238	355354.44	6340938.79	BK
239	355351.32	6340937.70	TAP
240	355344.10	6340964.82	BK
241	355343.77	6340965.64	TANK
242	355342.44	6340967.96	TANK
243	355342.10	6340968.70	BK
244	355338.64	6340967.07	TAP
245	355322.11	6340988.56	TAP
246	355325.02	6340991.23	BK
247	355324.51	6340991.94	TANK
248	355322.86	6340993.79	TANK
249	355322.27		

