

THE NORTH QUARTER ESTATE STAGE 2 (PERMIT NO. 2021-40) THE NORTH QUARTER SHEPPARTON PTY LTD

GENERAL NOTES:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA 2020) ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINISH SURFACE LEVELS SHOWN ON PLANS. ALL FILL MATERIAL TO BE SELECTED MATERIALS FREE OF ORGANIC MATTER, PLACED IN COMPACTED LAYERS TO AT LEAST 95% OF MAXIMUM STANDARD DRY DENSITY AND WITHIN +/- 2% OF OPTIMUM MOISTURE CONTENT. COMPACTED LAYERS TO BE LIMITED TO A MAXIMUM COMPACTED DEPTH OF 150mm.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED BY THE SUPERINTENDENT AND LEVELED PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH AS 3798-2007 UNDER LEVEL 1 SUPERVISION.
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE:
950mm - CLASS 12 P.V.C. - SINGLE SERVICE (GAS)
950mm - CLASS 12 P.V.C. - SINGLE SERVICE (WATER)
WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT - 0.80m
VERGE, FOOTPATHS - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- WHERE CURVED PIPES ARE SHOWN ON THE DESIGN PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2 UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN

- ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
 - TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
 - CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
 - ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
 - TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.

CIVIL WORKS HOLD POINTS

THE FOLLOWING HOLD POINT INSPECTIONS REPRESENT THE MINIMUM NUMBER OF COUNCIL INSPECTIONS AND SHALL APPLY UNTIL WORKS ARE APPROVED BY COUNCIL'S SUPERVISING OFFICER. COUNCIL'S CONSULTING SUPERVISOR MUST ALSO BE PRESENT AT THESE HOLD POINTS.

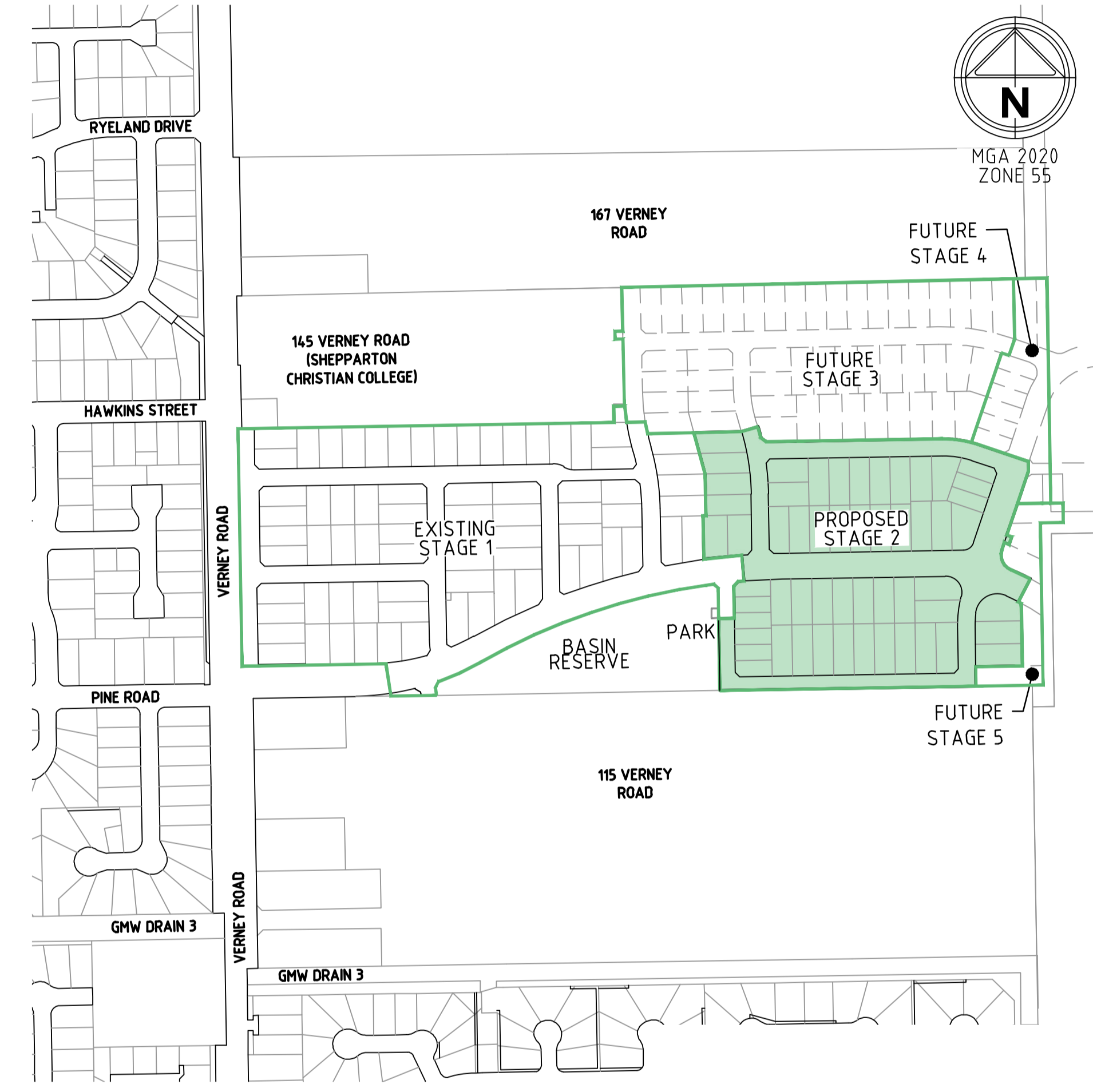
- PRE-START MEETING.
- PRIOR TO COVERS BEING PLACED IN PITS.
- PRIOR TO PLACEMENT OF KERB AND CHANNEL.
- PRIOR TO POURING FOOTPATH.
- AT PROOF-ROLLING OF SUBGRADE.
- PRIOR TO PLACEMENT OF SUBBASE AND PROOF ROLL.
- PRIOR TO PLACEMENT OF BASE AND PROOF ROLL.
- PRIOR TO PLACEMENT OF THE PRIMER COAT.
- PRIOR TO PLACEMENT OF THE WEARING COURSE.
- PRELIMINARY ACCEPTANCE INSPECTION.
- FINAL ACCEPTANCE INSPECTION.

THE FOLLOWING ARE WITNESS POINTS (COUNCIL ARE MADE AWARE OF THE WORKS BUT WORKS ARE NOT HELD UP AWAITING INSPECTION).

- PRIOR TO BACKFILLING STORMWATER DRAINS.

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	FACE SHEET	1	A
CR200	DESIGN PLANS	2	B
CR201	STORMWATER RISING MAIN 2	3	A
CR300	ROAD LONG SECTIONS	4	A
CR301	ROAD LONG SECTIONS	5	A
CR302	ROAD LONG SECTIONS	6	A
CR303	ROAD LONG SECTIONS	7	A
CR400	ROAD CROSS SECTIONS	8	A
CR401	ROAD CROSS SECTIONS	9	A
CR402	ROAD CROSS SECTIONS	10	A
CR403	ROAD CROSS SECTIONS	11	A
CR404	ROAD CROSS SECTIONS	12	A
CR405	ROAD CROSS SECTIONS	13	A
CR406	ROAD CROSS SECTIONS	14	A
CR407	ROAD CROSS SECTIONS	15	A
CR408	ROAD CROSS SECTIONS	16	A
CR500	INTERSECTION DETAILS	17	A
CR501	INTERSECTION DETAILS	18	A
CR502	INTERSECTION DETAILS	19	A
CR503	INTERSECTION DETAILS	20	A
CR504	INTERSECTION DETAILS	21	A
CR505	INTERSECTION DETAILS	22	A
CR600	DRAINAGE LONG SECTIONS	23	A
CR601	DRAINAGE LONG SECTIONS	24	A
CR602	DRAINAGE LONG SECTIONS	25	A
CR603	DRAINAGE PIT SCHEDULE	26	A
CR700	PAVEMENT AND TYPICAL DETAILS	27	A
CR701	PAVEMENT AND TYPICAL DETAILS	28	A
CR702	PAVEMENT AND TYPICAL DETAILS	29	A
CR800	SIGNAGE AND LINEMARKING	30	A



LOCALITY PLAN
SCALE: NOT TO SCALE

NOTE:
TOTAL NUMBER OF STREET TREES
IN STAGE 2 = 103
REFER TO LANDSCAPE PLANS
309565LD700 FOR PLANTING PLAN



SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY				STORMWATER RISING MAIN	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	H/V CABLE SIDE	H/V CABLE OFFSET	L/V CABLE SIDE	L/V CABLE OFFSET	SIDE	OFFSET
SANTA ROSA BOULEVARD	N	3.75	N	3.13	S	1.75	S	3.60	S	3.30	S	4.30
HONEYCOT GROVE	N	2.50	N	2.90	N	0.80	-	-	N	1.80	-	-
DIVINITY DRIVE	E	2.30	E	1.80	W	1.85	-	-	W	2.35	-	-
HALFORD WAY	W	2.30	W	1.80	E	1.85	-	-	E	2.35	-	-
MAYNARD STREET	N	2.30	N	1.80	S	1.85	-	-	S	2.35	-	-
ANGELENO WAY	W	2.30	W	1.80	E	2.85	E	3.65	E	3.35	W	11.50
JEFFERSON WAY	E	2.30	E	1.80	W	0.35	W	1.15	W	0.85	-	-

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB

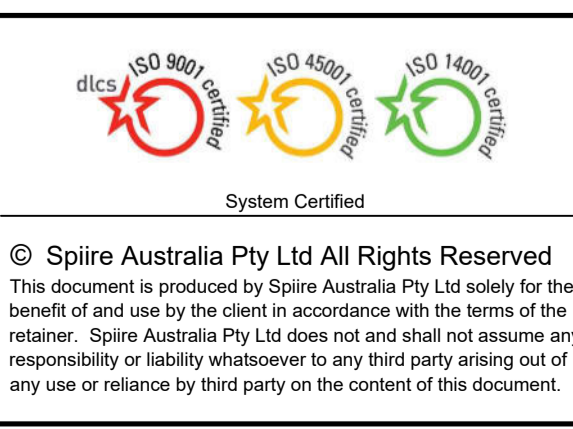
LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELSTRA & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
GAS MAIN	G	G
SEWER & MANHOLE	S	S
COUNCIL STORMWATER DRAIN & PIT	SWRM	SWRM
STORMWATER RISING MAIN		
HOUSE DRAIN		
STORMWATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
PREFERRED VEHICLE CROSSING (BY OTHERS)		
CONSTRUCTED VEHICLE CROSSING		
RIDGE / CHANGE OF GRADE LINE		
EARTHWORKS GRADE		
TIMBER BOLLARDS		
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
ROAD CHAINAGES		CH116.57 (L/R)TP CH116.57
LOT CHAINAGE		CH20.06
LIMIT OF WORKS		
BATTER		
ROCK BEACHING		
FENCES		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
EASEMENT		
CATCH DRAIN		CD
EXPOSED AG CONCRETE		
COBBLESTONES		
FILLING GREATER THAN 0.20m		
FILL EXTENTS (GREATER THAN 0.20m)		
FILL EXTENTS (GREATER THAN 0.30m)		
SETOUT POINT		A2
SURFACE CONTOUR MINOR		168.90
SURFACE CONTOUR MAJOR		169.00
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)		T124.80

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON-SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

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Rev	Issued For Approval	A.A.	24/10/22
	Amendments	Approved	Date



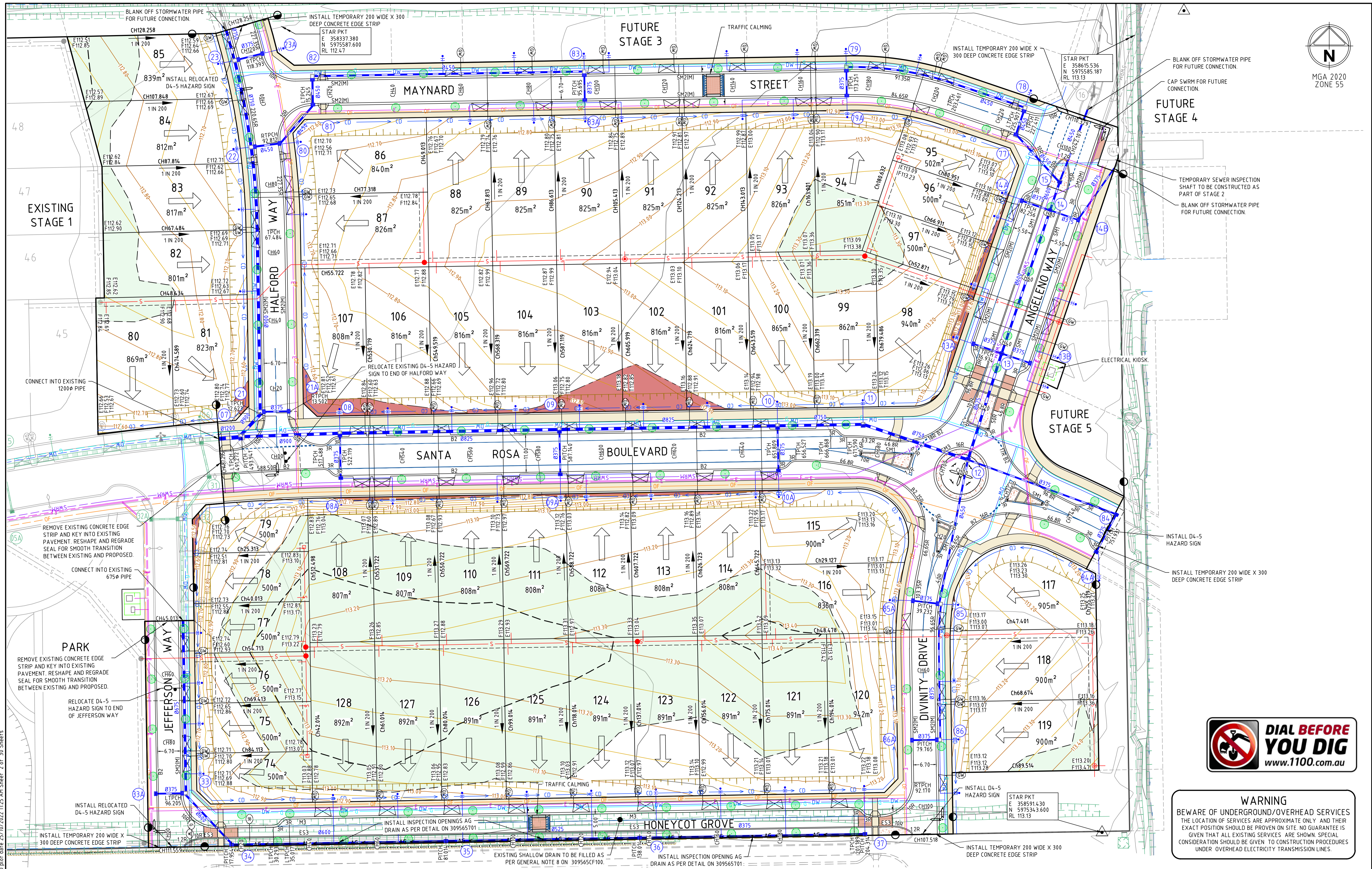
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spiire.com.au ABN 55 050 029 635

Designed
J. MAZZUCCO
Authorised
A. ANDERSSON

Checked
B. IBBS
Date
OCT 2022

**THE NORTH QUARTER ESTATE
STAGE 2 (PERMIT NO. 2021-40)
ROAD AND DRAINAGE
FACE SHEET**
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER SHEPPARTON PTY LTD

PRELIMINARY Drg No **309565CR100** Rev **A**



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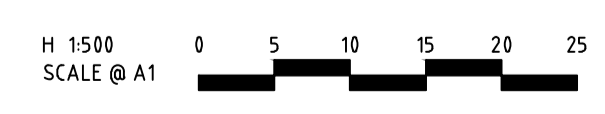
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Rev	Amendments	Approved	Date
B	ISSUED FOR APPROVAL	A.A.	24/10/22
A	ISSUED FOR INFORMATION	J.B.	05/10/2022



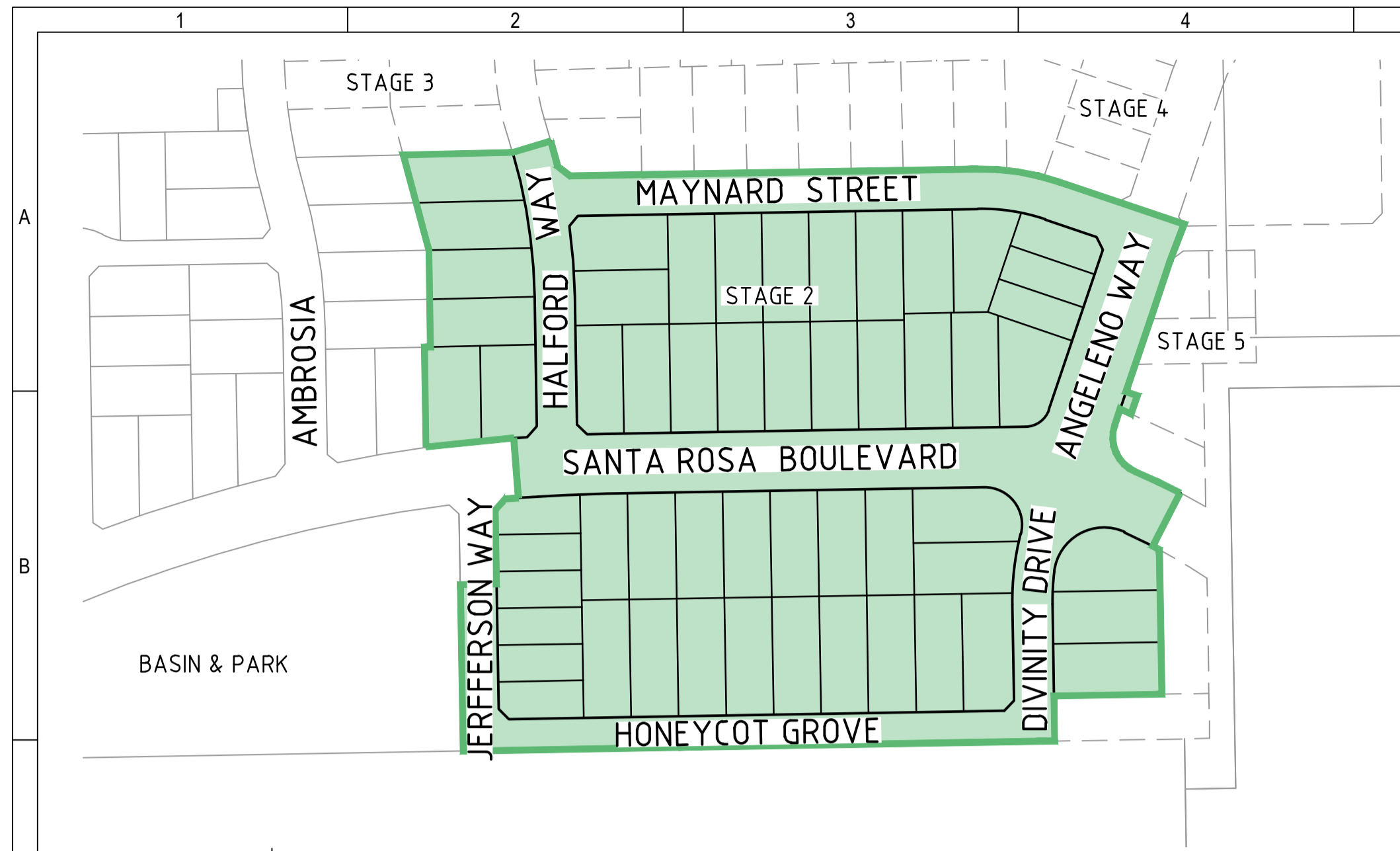
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Designed J. MAZZUCCO	Checked B. IBBS
Authorised A. ANDERSSON	Date OCT 2022



**THE NORTH QUARTER ESTATE
STAGE 2 (PERMIT NO. 2021-40)
ROAD AND DRAINAGE
DESIGN PLANS
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER SHEPPARTON PTY LTD**

PRELIMINARY Dwg No **309565CR200** Rev **B**



LOCALITY PLAN
SCALE: NOT TO SCALE

GENERAL NOTES:

- ONLY CONTRACTORS ACCREDITED BY GOULBURN VALLEY WATER SHALL BE ELIGIBLE TO CONSTRUCT THESE WORKS.
- ONLY PRODUCTS APPROVED AND CATALOGUED BY THE GOULBURN VALLEY WATER SHALL BE USED.
- WORKS MUST BE TO CONSTRUCTED ACCORDING TO THE MRWA EDITION OF THE WSA S WERAGE CODE OF AUSTRALIA WSA 02-2014-3.1 AND GVW SUPPLEMENT.
- THE DESIGN CONSULTANT IS RESPONSIBLE FOR THE DESIGN AND COORDINATION OF THE WORKS. ANY PROBLEM ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE CONSULTANT.

SURVEY, SET OUT AND ASSET RECORDING

- ALL CONTOURS AND LEVELS ARE IN METRES TO THE AUSTRALIAN HEIGHT DATUM (A.H.D.)
- ALL CO-ORDINATES SHOWN ARE TO MAP GRID OF AUSTRALIA (MGA 2020) ZONE 55.
- CHAINAGES SHOWN ON DETAIL PLANS ARE DISCONTINUOUS AT MAINTENANCE STRUCTURES.
- CHAINAGES SHOWN ON LONG SECTION SHEETS ARE CONTINUOUS. COORDINATES ARE TO SEWER LINE INTERSECTION POINT UNLESS OTHERWISE SHOWN.
- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES.
- TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION.
- SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.

PROPERTY CONNECTIONS

- NUMBER OF LOTS TO BE SEWERED: 77 LOTS.
- NUMBER OF LOTS IN STAGE: 73 LOTS.
- ALL PROPERTY CONNECTIONS TO BE DN100 UNLESS OTHERWISE INDICATED.
- PROPERTIES REQUIRING BOUNDARY TRAPS ARE INDICATED IN THE DETAILED PLANS. THE REMAINDER DO NOT REQUIRE BOUNDARY TRAPS.
- BRANCH TIE DISTANCE SHOWN ON DETAIL PLAN ARE FROM APPROVED SUBDIVISION SURVEY PEGS. BRANCH TIES FOR FUTURE LOTS ARE SHOWN AS A CHAINAGE. (CH) DISTANCE IS FROM THE DOWNSTREAM SEWER STRUCTURE.
- INVERT LEVEL OF THE PROPERTY CONNECTION POINT IS SHOWN OPPOSITE THE BRANCH POSITION.
- WHERE A SPUR BRANCH CONNECTS TO A SHAFT, BOTH PROPERTY CONNECTIONS ARE CONSIDERED TO BE SHAFT CONNECTIONS.
- ALL PROPERTY CONNECTIONS ARE TO BE TO A DEPTH OF 1.0m AS PER GVW SUPPLEMENT GVW-S-100 ITEM 11.

ENVIRONMENTAL MANAGEMENT PLAN:

- ON COMMENCEMENT OF CONSTRUCTION WORKS THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE EPA PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275 1991).
- ALL TREES AND VEGETATION ARE TO BE PROTECTED UNLESS OTHERWISE INDICATED FOR REMOVAL. THE EXTENT OF ANY VEGETATION REMOVAL SHALL BE CONFIRMED ON SITE WITH THE SUPERINTENDENT AND LOCAL COUNCIL PRIOR TO COMMENCEMENT, AND IN ACCORDANCE WITH ANY PLANNING PERMITS. ANY REMOVAL SHALL BE DOCUMENTED.
- ALL AREAS CONTAINING CREEK VEGETATION, TREES AND REVEGETATED AREAS NEAR THE CONSTRUCTION ZONE ARE TO BE FENCED OFF DURING THE WORKS WITH SECURE AND HIGHLY VISIBLE MATERIAL SUCH AS PARA-WEABBING FENCING.
- ENSURE ALL MACHINERY, EQUIPMENT AND/OR FOOTWEAR ENTERING THE SITE IS WEED AND PATHOGEN FREE.

CONSULTANT'S REQUIREMENTS:

- THE CONTRACTOR IS TO CONTACT ALL LOCAL SERVICE AUTHORITIES FOR INFORMATION REGARDING EXISTING SERVICE LOCATIONS PRIOR TO COMMENCING ANY EXCAVATION. THE CONTRACTOR IS TO MAKE ALLOWANCE IN TENDER RATES FOR PROOFING OF CRITICAL SERVICES FOR ASSISTANCE IN LOCATING SERVICES OR IN AN EMERGENCY TELEPHONE 'DIAL BEFORE YOU DIG'.
- THE CONTRACTOR SHALL REINSTATE ANY AFFECTED ASSETS (I.E FOOTPATH, VEHICLE CROSSINGS & NATURE STRIP) TO THE REQUIREMENTS OF THE MUNICIPAL COUNCIL AT CONTRACTORS EXPENSE.
- CONSTRUCTION PRE COMMENCEMENT DOCUMENTATION MUST BE SUBMITTED TO THE SUPERINTENDENT AS PER GOULBURN VALLEY WATER REQUIREMENTS.
- SETOUT AND VERIFICATION OF LEVELS SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE HORIZONTAL ALIGNMENT AND FOR OFFSETTING PEGS DURING CONSTRUCTION
- THE CONTRACTOR SHALL OBTAIN A ROAD OPENING PERMIT FOR ANY WORKS WITHIN THE ROAD RESERVE AND COMPLY WITH ALL REQUIREMENTS
- ONLY AN ACCREDITED SURVEYOR MAY BE USED TO UNDERTAKE ASSET RECORDING OF THE WORK. ALL SURVEYING WORKS AND DATA TO BE SUBMITTED MUST BE IN ACCORDANCE WITH GOULBURN VALLEY WATER'S REQUIREMENTS.
- ALL LONG RADIUS BENDS AND CURVED SEWERS ARE TO HAVE MARKER DISCS PLACED AS PER STANDARD DRAWING MRWA-S-104B WITH EXCEPTION TO DEPTH WHICH IS TO BE LAID AT MAX 1m FROM THE SURFACE.
- ALL CURVED SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. (24 HOUR CURING TIME FOR GLUE PRIOR TO COLD BENDING REQUIRED)

SCHEDULE 1: DRAWING SCHEDULE

DRAWING No.	TITLE	SHEET NO.	CURRENT REVISION
CS100	GENERAL NOTES	1	B
CS200	LAYOUT DRAWINGS - SHEET 1	2	B
CS300	LONG SECTIONS - SHEET 1	3	B
CS301	LONG SECTIONS - SHEET 2	4	B

SCHEDULE 2: NEW PIPE

PIPE SIZE	PIPE TYPE	LENGTH (m)	PIPE CLASS	STANDARD
DN100	UPVC-DWV	87.30	SN10	WSA PS230
DN150	UPVC-DWV	628	SN8	WSA PS230
DN225	UPVC-DWV	99.50	SN8	WSA PS230

SCHEDULE 3: PROPERTY CONNECTIONS

CONNECTION TYPE	TYPE 1a	TYPE 1b	TYPE 2	TYPE 4a	TYPE 4b	TYPE S	TYPE 4S	TYPE B	TYPE 4B	JUMP UP FLEXIBLE COUPLINGS 'F'
QUANTITIES	0	0	45	1	0	6	0	5	0	26

SCHEDULE 4: SERVICE OFFSETS AND LOCATIONS:

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY				STORMWATER RISING MAIN	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	H/V CABLE		L/V CABLE		SIDE	OFFSET
SANTA ROSA BOULEVARD	N	3.75	N	3.13	S	1.75	S	3.60	S	3.30	S	4.30
HONEYCOT GROVE	N	2.50	N	2.90	N	0.80	-	-	N	1.80	-	-
DIVINITY DRIVE	E	2.30	E	1.80	W	1.85	-	-	W	2.35	-	-
HALFORD WAY	W	2.30	W	1.80	E	1.85	-	-	E	2.35	-	-
MAYNARD STREET	N	2.30	N	1.80	S	1.85	-	-	S	2.35	-	-
ANGELENO WAY	W	2.30	W	1.80	E	2.85	E	3.65	E	3.35	W	1150
JEFFERSON WAY	E	2.30	E	1.80	W	0.35	W	1.15	W	0.85	-	-

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB

SCHEDULE 5: MAINTENANCE STRUCTURES

MAINTENANCE STRUCTURE ID	TYPE - (IS/MS/MC)	COVER CLASS	DEPTH TO INVERT (mm)	SHAFT CONNECTIONS	COMMENTS / REFERENCES (Offsets / Details)
MC10	MC	B	4050	1 x DN100	-
MS12	MS	B	2830	1 x DN100	-
IS19	IS	B	1650	-	-
MS46	MS	B	2580	-	-
MS47	MS	B	2570	1 x DN100	-
MS48	MS	B	2350	-	-
IS49	IS	B	1850	-	-
IS50	IS	B	1650	-	-

SCHEDULE 6: MAINTENANCE HOLES

MAINTENANCE HOLE ID	MH SHAFT TYPE (GRP/PP (Plastic) / Concrete)	MH TOP TYPE (Conical/Flat)	COVER CLASS	INTERNAL DIAMETER (mm)	MIN. WALL THICKNESS (mm)	DEPTH TO INVERT (mm)	DROPS	LADDER (L) STEP IRONS (S) LANDING (Ld)	CORROSION PROTECTION (Coating / PE or PVC Lining)	SHAFT RE-INFORCEMENT	COMMENTS (Offsets / Details)
MH09	CONCRETE	CONICAL	B	1050	150	4220	1 x DN100	-	-	-	REFER MRWA-S-311
MH11	CONCRETE	CONICAL	B	1050	150	3960	1 x DN150	-	-	-	REFER MRWA-S-311
MH43	CONCRETE	CONICAL	B	1050	150	4050	1 x DN150	-	-	-	REFER MRWA-S-311
MH44	CONCRETE	CONICAL	B	1050	150	4020	1 x DN150	-	-	-	REFER MRWA-S-311
MH45	CONCRETE	CONICAL	B	1050	150	3550	1 x DN100	-	-	-	REFER MRWA-S-311

TEMPORARY BENCHMARKS TO BE PROVIDED BY LICENSED SURVEYOR PRIOR TO THE COMMENCEMENT OF WORKS

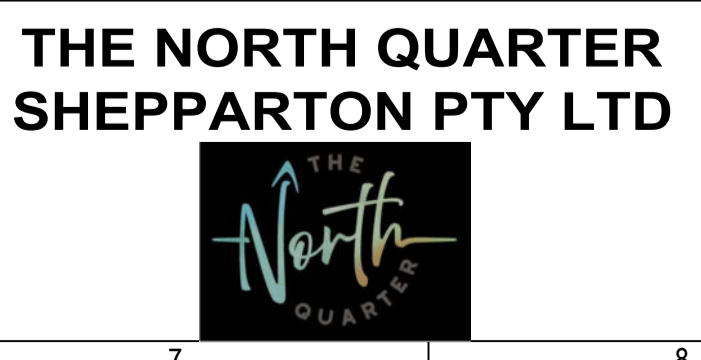


WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

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Works may now commence in accordance with these plans and specifications.
No changes can be made to these plans and specifications without the written consent of the Goulburn Valley Water.
Delegated Goulburn Valley Water Officer: [Signature]
Date: [Blank]

REV	DESCRIPTION	DATE	APPROVED
B	ISSUED FOR APPROVAL	12/10/22	J.B.
A	ISSUED FOR APPROVAL	28/06/22	A.D.R.

DESIGNED	A.ANDERSSON	AUTHORITY PROJECT NO.	TBA
DRAWN	H.HAIDARI	MELWAY REFERENCE	673 R4 (ED.7)
CHECKED	J.KOEHLER	AUTHORISED	J.BLIGHT DATE: MAR 2022



GOULBURN VALLEY WATER
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE STAGE 2
SEWER RETICULATION
GENERAL NOTES

SCALE: AS SHOWN	SHEET: 1 OF 4
SPIIRE DWG No.: 309565CS100	REV B
PRELIMINARY	

file name: 309565CS100.dwg, layout: name: CS100, plotted by: Alexander Andersson, file location: \\spiire\shared\Drawings\309565\01\NACAD\Plot\Date: 6/11/2022 9:05:AM Sheet 1 of 4, Sheets



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WARNING
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SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD

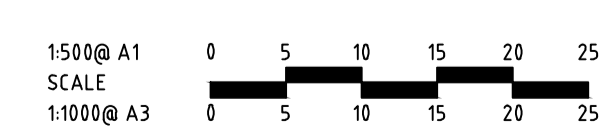
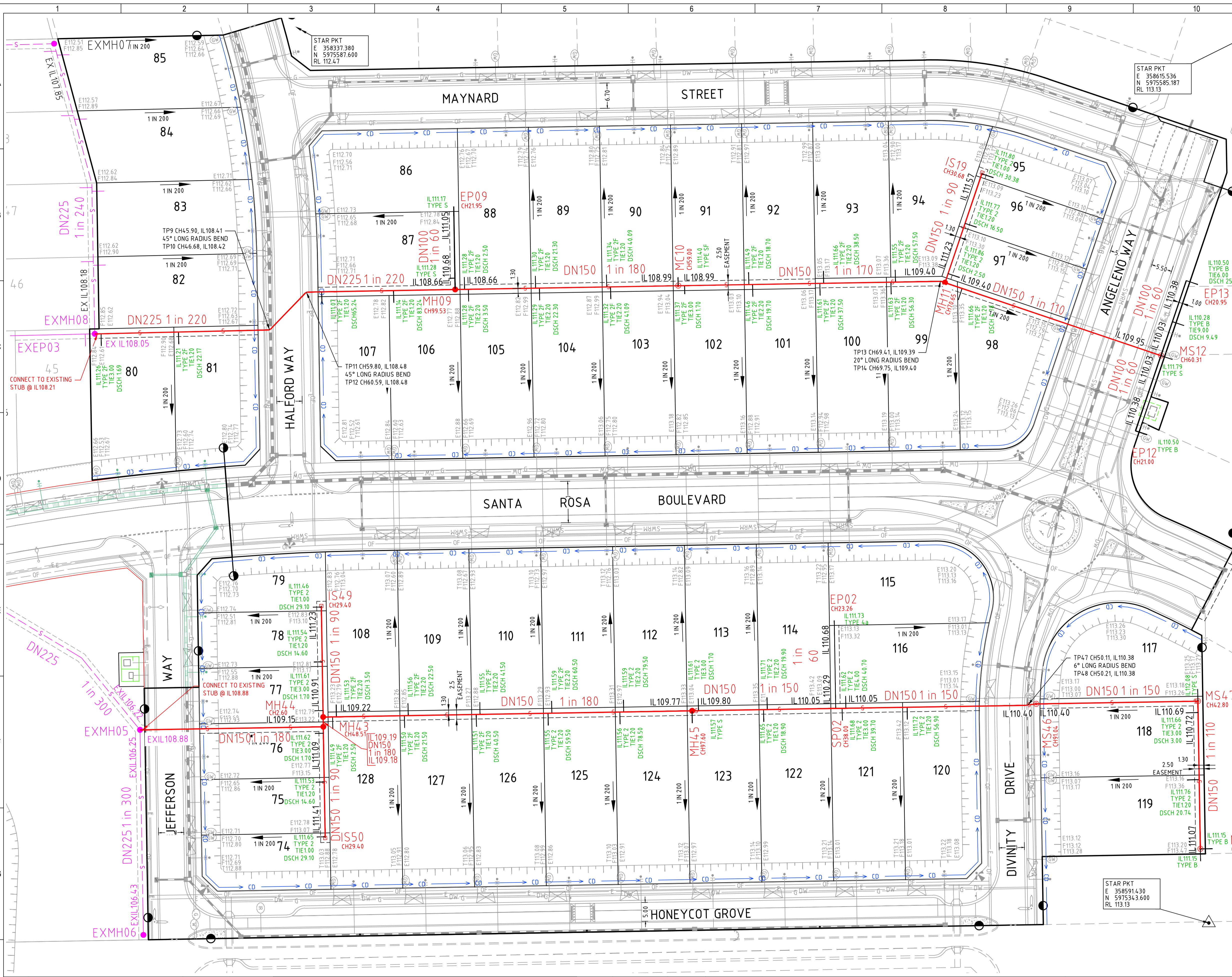
LEGEND
SEWER PIPE DETAILS
UPSTREAM INVERT LEVEL
PIPE DIAMETER
PIPE GRADE
DOWNSTREAM INVERT LEVEL

SEWER PROPERTY CONNECTION DETAILS
INVERT LEVEL
CONNECTION TYPE
OFFSET FROM DOWNSTREAM LOT BOUNDARY
OFFSET FROM DOWNSTREAM MANHOLE

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	- - - - DW	- - - - DW
UNDERGROUND ELECTRICITY	- - - - E	- - - - E
TELSTRA & SERVICE PIT	- - - - T	- - - - T
OPTIC FIBRE	- - - - OF	- - - - OF
GAS MAIN	- - - - G	- - - - G
STORMWATER RISING MAIN	- - - - SWRM	- - - - SWRM
SEWER RISING MAIN	- - - - SRM	- - - - SRM
SEWER & MAINTENANCE STRUCTURE	- - - - S	- - - - S
OVERHEAD ELECTRICAL	- - - - OE	- - - - OE
COUNCIL STORMWATER DRAIN & PIT	- - - - SDP	- - - - SDP
CONCRETE VEHICLE CROSSING	- - - - VC	- - - - VC
PERMANENT SURVEY MARK	▲	▲
TEMPORARY BENCH MARK	△	△
LIMIT OF WORKS	○	○



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DESIGNED	A.ANDERSSON	AUTHORITY PROJECT No.	TBA
DRAWN	H.HAIDARI	MELWAY REFERENCE	673 R4 (E.07)
CHECKED	J.KOEHLER	AUTHORISED	J.BLIGHT
			DATE: MAR 2022

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Victoria 3632 Australia T 61 3 5649 1000
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GOULBURN VALLEY WATER

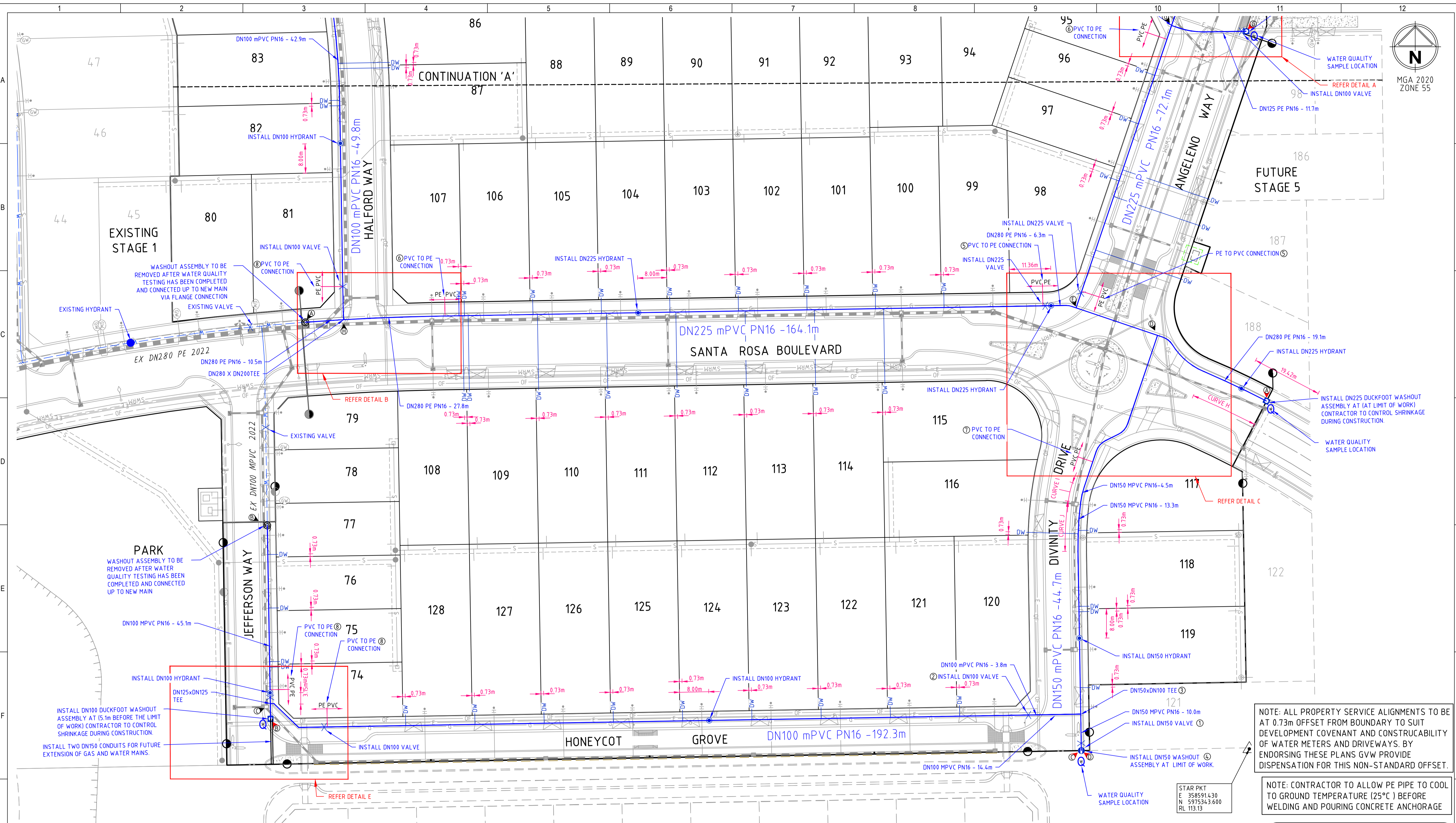
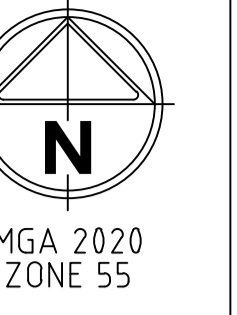
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE STAGE 2
SEWER RETICULATION
LAYOUT DRAWINGS

SCALE: AS SHOWN
SHEET: 2 OF 4

SPIIRE DWG No.:	309565CS200	REV	B
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PRELIMINARY

file name: 309565CS200.dwg layout name: CS200 - plotted by: Alexander Andersson
file location: G:\309565\GVA\CAD\plot date: 04/11/2022 9:05 AM Sheet: 2 of 4 Sheets



NOTE: ALL PROPERTY SERVICE ALIGNMENTS TO BE AT 0.73m OFFSET FROM BOUNDARY TO SUIT DEVELOPMENT COVENANT AND CONSTRUCTIBILITY OF WATER METERS AND DRIVEWAYS. BY ENDORSING THESE PLANS GVW PROVIDE DISPENSATION FOR THIS NON-STANDARD OFFSET.

NOTE: CONTRACTOR TO ALLOW PE PIPE TO COOL TO GROUND TEMPERATURE (25°C) BEFORE WELDING AND POURING CONCRETE ANCHORAGE

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PLEASE NOTE:
DEPTH OF COVER TO TOP OF WATERMAIN TO BE INCREASED BEYOND THE MINIMUM COVER MENTIONED ABOVE WHERE REQUIRED TO ALLOW FOR OTHER UTILITY CROSSINGS, INCLUDING ALLOWANCE FOR THE INSTALLATION OF THE TYPICAL GOULBURN VALLEY WATER DRY TAPPING AND PROPERTY CONNECTION (DRY TAPPING INSTALLATION AS PER GVW SUPPLEMENT GVW-W-100 FIGURE A).

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Delegated Goulburn Valley Water Officer:



1500@A1
SCALE
1:1000@A3

REV	DESCRIPTION	DATE	APPROVED
B	ISSUED FOR APPROVAL	12/10/22	J.B.
A	ISSUED FOR APPROVAL	28/06/22	A.D.R.

LEGEND

	VALVE		FOR ADDITIONAL SYMBOLS NOT INCLUDED HERE REFER TO MRWA-W-100
	WATER AUTHORITY HYDRANT. BELOW GROUND.		SWAB INSERTION POINT
	TAPER		SWAB REMOVAL POINT
	SOC WASHOUT BEND WITH HYDRANT		WATER QUALITY SAMPLING POINT (DUAL WATER)
	REMOVE FITTING		

DESIGNED	H.HAIDARI	AUTHORITY PROJECT No.	TBA
DRAWN	H.HAIDARI	VICROADS REFERENCE	673 R4 (ED.7)
CHECKED	J.KOEHLER	AUTHORISED	J.BLIGHT
		DATE	MAR 2022

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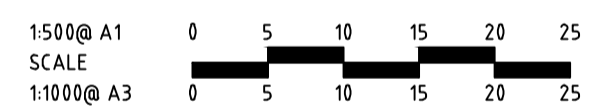
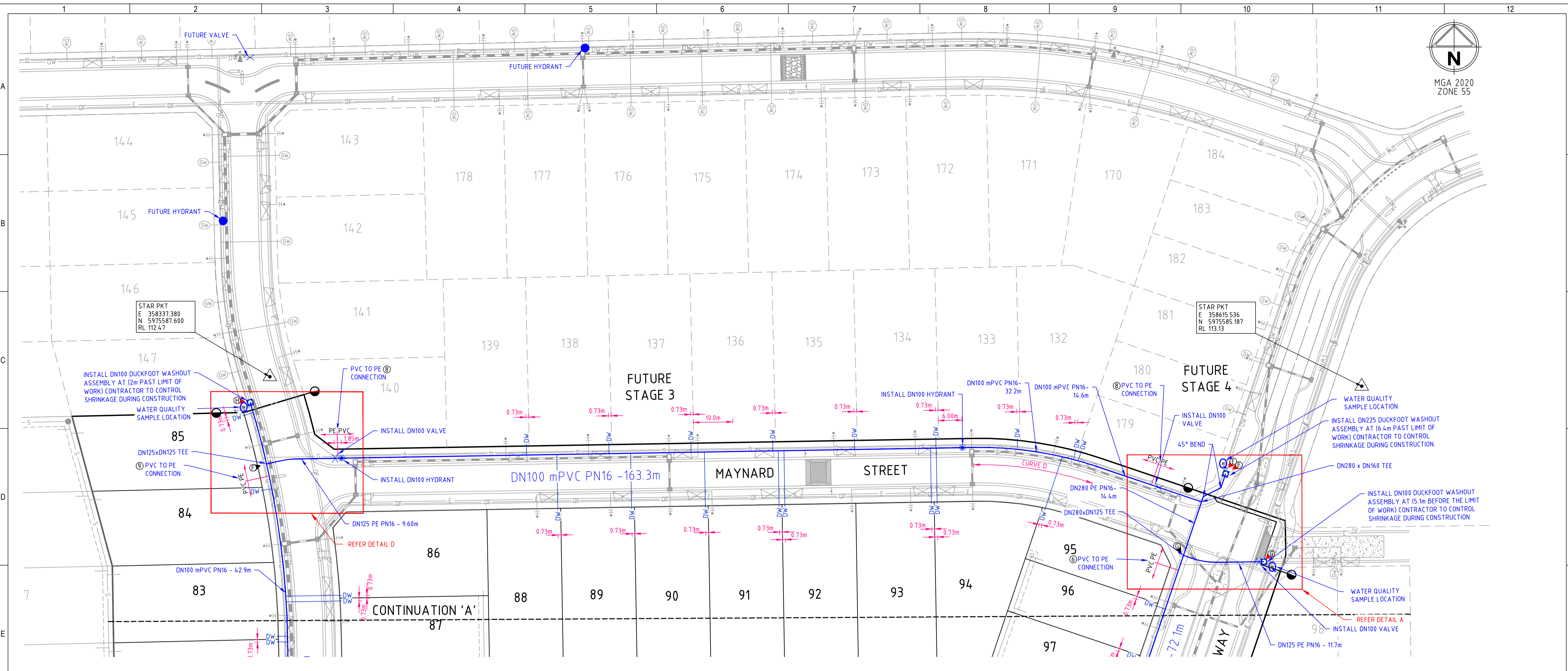
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GOULBURN VALLEY WATER
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE, STAGE 2
WATER RETICULATION
DESIGN DRAWINGS

SCALE: AS SHOWN
SHEET: 2 OF 7
SPIIRE DWG No.: 309565CW200
REV B
PRELIMINARY

file name: 309565CW200.dwg, layout name: CW200, plotted by: Alexander Anderson, file location: G:\309565\CAD\309565\CAD\309565.dwg, plot date: 12/10/2022 2:28 PM, Sheet 2 of 7, Sheets



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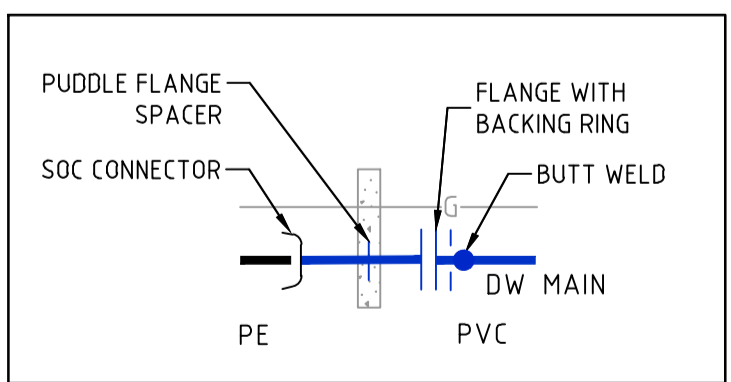
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PVC TO PE CONNECTIONS
 NOT TO SCALE

file name: 309565CW201.dwg, layout name: CW201, plot date: 12/10/2022 2:28 PM, Sheet 3 of 7, Sheets

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LEGEND

	VALVE		WATER AUTHORITY HYDRANT, BELOW GROUND.
	TAPER		SOC WASHOUT BEND WITH HYDRANT
	REMOVE FITTING		FOR ADDITIONAL SYMBOLS NOT INCLUDED HERE REFER TO MRWA-W-100
	SWAB REMOVAL POINT		WATER QUALITY SAMPLING POINT (DUAL WATER)

DESIGNED	H.HAIDARI	AUTHORITY PROJECT No.	TBA
DRAWN	H.HAIDARI	VICROADS REFERENCE	673 R4 (ED.7)
CHECKED	J.KOEHLER	AUTHORISED	J.BLIGHT
		DATE:	MAR 2022

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GOULBURN VALLEY WATER
 CITY OF GREATER SHEPPARTON
 THE NORTH QUARTER ESTATE, STAGE 2
 WATER RETICULATION
 DESIGN DRAWINGS

SCALE: AS SHOWN	SHEET: 3 OF 7
SPiIRE DWG No.: 309565CW201	REV B
PRELIMINARY	