

COUNCIL ROAD & DRAINAGE PLAN REVISION TABLE			
SHT. No.	DATE	VER.	DESCRIPTION
1-4	12 DECEMBER 2024	2	Layout Plan
5-10	12 DECEMBER 2024	2	Road Longsections
11-36	12 DECEMBER 2024	2	Road Cross Sections
37-45	12 DECEMBER 2024	2	Drainage Longitudinal Sections
46-48	12 DECEMBER 2024	2	Intersection Details
49-50	12 DECEMBER 2024	2	Signage & Linemarking Details
51	12 DECEMBER 2024	2	Basin Detail
N/A	N/A	N/A	Site Management Plan provided by contractor and approved prior to construction

SEWER & WATER RETICULATION PLAN REVISION TABLE			
SHT. No.	DATE	VER.	DESCRIPTION
1-3	12 DECEMBER 2024	2	Water Reticulation Layout Plan
4-7	17 JANUARY 2025	3	Sewer Reticulation Layout Plan
8-15	10 JANUARY 2025	3	Sewer Longitudinal Sections
1-3	17 JANUARY 2025	2	Sewer Pumpstation
1-14	22 OCTOBER 2024	0	Sewer Pumpstation Electrical Drawings

ELECTRICITY & NBN PLAN REVISION TABLE			
SHT. No.	DATE	VER.	DESCRIPTION
1-2	23/09/2024	1	Electricity Supply Plan - VHS-0355980 & VHS-0355983
1	TBA	A	NBN Supply Plan

SHT. No.	DATE	VER.	DESCRIPTION
COUNCIL ID			
SD100	20/03/2015		Typical Kerb Profiles
SD110	12/03/2020		Typical Kerb Bedding Detail
SD120	26/02/2020		Layback for 'B2' & 'B3' Kerbing
SD130	12/03/2020		Kerb & Channel Installation Abutting Existing Pavement
SD145	26/02/2020		Subsoil Drainage
SD200	26/02/2020		Pedestrian Crossing
SD205	26/02/2020		Typical Footpath Detail
SD210	06/02/2019		Typical Footpath Joints
SD220	12/03/2020		Reinforced Concrete Pavement Isolation Joint
SD225	06/02/2019		Reinforced Concrete Pavement Typical Joint Details
SD280	12/03/2020		Typical Swale Drain Vehicle Crossing (Fringe Urban or Rural)
SD270	24/03/2020		Footpath to Pedestrian Crossing CDA Compliance Details
SD310	20/02/2019		Trenching Backfill (Trenches Within 1m of Council Assets)
SD400	26/02/2020		Typical Pit Dimensioning & Setout Detail
SD405	26/02/2020		Unhaunched Pits
SD410	26/02/2020		Haunched Pits
SD415	20/03/2015		Min Wall Thickness for Reinforcement in Mass Concrete Pits (In-Situ)
SD420	12/03/2020		Junction Pit in Road Reserve
SD425	26/02/2020		Junction Pit with Concrete Cover (Non Trafficable Areas)
SD431	26/02/2020		900 x 600mm Side Entry Pit Pipes up to 150mm (Precast Concrete Lenti)
SD440	26/02/2020		Side Entry Pit 900mm Inlet with Cast Iron Cover & Concrete Surround for 'SM2-M'
SD450	26/02/2020		Double Side Entry Pit 1900mm Inlet with Cast Iron Cover & Concrete Surround for 'SM2-M'
SD455	26/02/2020		Depressed Grated Pit
SD497	26/02/2020		Reinforced Concrete Wingwall
SD510	26/02/2020		House Drain Under Road Pavement
SD515	26/02/2020		Street Drain Connection
SD516	26/02/2020		Street Drain Connection (45° to Pipe where Cover Limited)
SD525	20/03/2015		Flushout Riser Detail
SD530	20/03/2015		Flushout Riser Cover Detail
VICROADS			
SD1931	01/07/2005	C	Reinforced Concrete Wingwall - Pipe Culverts 600 to 2100 Dia
OTHER			
	NOV 2024		Watts Profile



LEGEND

	EXISTING TREE / TREE TO BE REMOVED
	TREE PROTECTION ZONE
	TBM's
	EXISTING SEWER
	PROPOSED SEWER
	PROPOSED SEWER RISING MAIN
	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	EXISTING GAS MAIN
	PROPOSED GAS MAIN
	EXISTING TELSTRA LINE
	EXISTING TELSTRA FIBRE OPTIC CABLE
	PROPOSED TELSTRA LINE
	EXISTING UNDERGROUND ELECTRICITY SUPPLY
	EXISTING OVERHEAD ELECTRICITY SUPPLY
	PROPOSED UNDERGROUND ELECTRICITY SUPPLY
	PROPOSED ELECTRICITY CONDUIT

WARNING!!
BEWARE OF UNDERGROUND SERVICES
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	EXISTING DRAINAGE
	PROPOSED DRAINAGE
	PROPOSED DRAINAGE RISING MAIN
	1 IN 100 ARI OVERLAND FLOODPATH
	TITLE BOUNDARY
	EASEMENTS
	EXISTING EDGE OF SEAL
	FENCES & GATES
	TOP OF BANK
	TOE OF BANK
	PROPOSED TOP / TOE OF BANK
	INVERT OPEN DRAIN
	GRAVEL TRACK
	BORED CONDUIT / SERVICE
	EXISTING HOUSE DRAIN

SEWER STANDARD DRAWING REFERENCE LIST

STANDARD DRAWING NUMBER	STANDARD DRAWING NAME
NERWC	SEWERAGE CONNECTION POINTS
TABLE 21.2	EMBEDMENT & TRENCHFILL
TABLE 21.2	STANDARD EMBEDMENT
FIGURE 7.14	MAINTENANCE HOLES (MH) (PRECAST)
FIGURE 7.15	MAINTENANCE HOLES (CAST INSITU)
WSAA SECTION 7.6	MH PIPE CONNECTION DETAILS
FIGURE 7.16	MH TYPICAL CHANNEL ARRANGEMENTS
WSAA SEW-1305	MH TYPICAL CHANNEL DETAILS
FIGURE 7.15	MH INTERNAL DROP CONNECTIONS
SECTION 7.6.9	MH STEP IRONS & LADDERS
SECTION 4.15	MH COVER ARRANGEMENTS
FIGURE 7.25	MS TMS AND CONNECTIONS
SECTION 7.9	MS COVER ARRANGEMENTS

Water Services Association of Australia - Sewerage Code (WSAA 02-2014 Version 3.2)

WATER STANDARD DRAWING REFERENCE LIST

STANDARD DRAWING NUMBER	STANDARD DRAWING NAME
NERWC SD13650	MARKER POST DETAILS
NEW STANDARD WATER MAIN TAPPING	PROPERTY CONNECTION DETAIL (TPFNR)
FIGURE 5.10	PROPERTY SERVICES TO MAIN
FIGURE 7.3	EMBEDMENT & TRENCHFILL
FIGURE 7.3	STANDARD EMBEDMENT
TABLE 7.3	THRUST BLOCK - CONCRETE
TABLE 7.4	THRUST BLOCK - TIMBER & PLASTIC
FIGURE 8.2	VALVE INSTALLATION
FIGURE 8.2	HYDRANT INSTALLATION

Water Services Association of Australia - Water Supply Code (WSA 03-2011 Version 3.2)

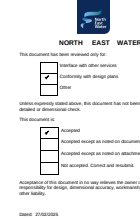
SERVICE OFFSET TABLE

STREET NAME	RESERVE	BACK OF KERB	WATER	GAS	ELECTRICITY	TELSTRA
SOPHIAWIDGE BOULEVARD	18.00	4.05 N / 6.05 S	4.50 S	4.10 S	2.10 N	1.80 N
SANDLEWOOD STREET	16.00	4.05	2.50 N	2.10 N	2.10 S (EAST OF KIOSK) 2.00 S (WEST OF KIOSK)	1.80 S (EAST OF KIOSK) 1.40 S (WEST OF KIOSK)
ACACIA STREET	16.00	4.05	2.50 N	2.10 N	2.10 S	1.80 S
SALTBUSH STREET	16.00	4.05	2.50 N	2.10 N	2.00 S	1.80 S (EAST OF KIOSK) 1.40 S (WEST OF KIOSK)
DAISY GRANGE	24.00	8.05	2.50 E	2.10 E	3.10 W	2.80 W
FIRETAIL STREET	16.00	4.05	2.50 N	2.10 N	2.10 S	1.80 S
NINOX WAY	16.00	4.05	2.50 N	2.10 N	2.10 S	1.80 S

WARBY VIEWS ESTATE - STAGES 7, 8 & 9

CRUSE STREET, WANGARATTA

- GILINFINITY PTY LTD



CONSTRUCTION HOLDPOINTS

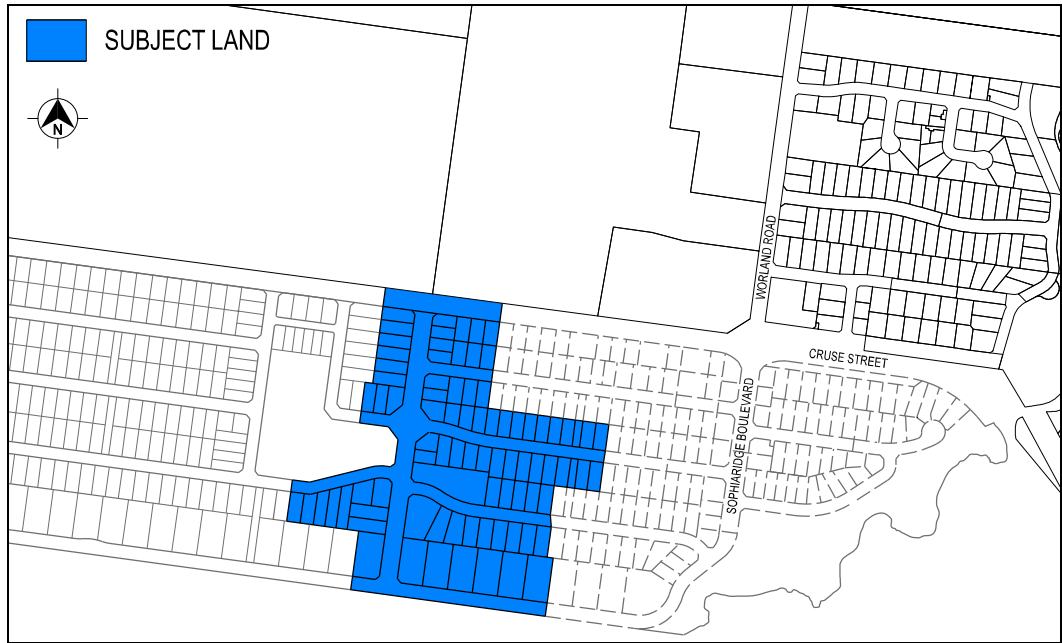
THE FOLLOWING HOLDPOINTS MUST BE CERTIFIED (SIGNED OFF) BY A PERSON QUALIFIED IN THE ASPECTS OF ROAD AND DRAINAGE CONSTRUCTION AND BY A COUNCIL REPRESENTATIVE AT DESIGNATED SITE MEETINGS BETWEEN 9am AND 5pm WEEKDAYS (A MINIMUM OF 48 HOURS NOTICE IS REQUIRED).

- PRE-START FOR CIVIL WORKS.
- PRE-START FOR LANDSCAPING WORKS.
- PRIOR TO COVERS BEING PLACED IN PITS.
- PRIOR TO THE PLACEMENT OF KERB AND CHANNEL.
- PRIOR TO THE POURING OF FOOTPATH.
- AT PROOF-ROLLING OF SUBGRADE (INCLUDES COMPACTION TESTS AS SPECIFIED).
- PRIOR TO PLACEMENT OF EACH PAVEMENT COURSE (INCLUDES COMPACTION TESTS AS SPECIFIED).
- PRIOR TO PLACEMENT OF THE PRIMER COAT (INCLUDES COMPACTION TESTS AS SPECIFIED).
- PRIOR TO THE PLACEMENT OF FIRST ASPHALT COURSE OR FIRST SEALING.
- PRIOR TO POURING CONCRETE ON LARGE REINFORCED CONCRETE STRUCTURES.
- PRIOR TO PLACEMENT OF GPTS, LITTER TRAPS AND PRECAST CONCRETE PUMPSTATIONS.
- PRIOR TO PLANTING OUT WETLANDS.
- PRIOR TO REMOVAL OF NATIVE VEGETATION AND OTHER EXISTING VEGETATION.
- PRIOR TO PLANTING (LANDSCAPING).

NOTE: THE ABOVE HOLDPOINTS MUST BE WITNESSED AND CONFIRMED IN WRITING BY BOTH THE COUNCIL REPRESENTATIVE AND THE CONTRACT SUPERINTENDENT. FAILURE TO COMPLETE A HOLDPOINT WILL REQUIRE THOSE AND ANY SUBSEQUENT WORKS TO BE REMOVED AND PREPARED FOR THE HOLDPOINT INSPECTION.

SEWER RISING MAIN NOTES

- ANY WORKS INVOLVING A SEWER MAIN ARE TO BE UNDERTAKEN BY NEW ACCREDITED CONTRACTOR
- WORKS MUST BE CONSTRUCTED IN ACCORDANCE TO WSA 04-2005 (V2.1), WSA 02-2014 (V3.2) AND NORTH EAST WATER SPECIFICATIONS.
- JOINTING - MECHANICAL COUPLINGS NOT PERMITTED. ELECTROFUSION AND/OR BUTT WELDING ONLY.
- MARKER POSTS ARE REQUIRED AT VALVES AND BENDS AS REQUIRED.
- SEWER RISING MAIN TO BE PRESSURE TESTED WITH WATER AT 600KPA.
- ALL CLEARANCE TO OTHER SERVICES TO BE IN ACCORDANCE WITH WSAA STANDARDS.
- PE PIPE TO BE BLACK WITH CREAM STRIPES.
- ALL TRENCHES TO BE COMPACTED AND TESTED PER NORTH EAST WATER STANDARDS AND SPECIFICATIONS (NEW ENGINEERING GUIDELINES FOR SUBDIVISION AND DEVELOPMENT STANDARDS - TESTING, PARA 3.2).
- ALL TRENCHES TO BE COMPACTED AND TESTED PER NORTH EAST WATER STANDARDS AND SPECIFICATIONS (NEW ENGINEERING GUIDELINES FOR SUBDIVISION AND DEVELOPMENT STANDARDS - TESTING, PARA 3.2).
- NEW SEWER MAIN TO BE PLUGGED UNTIL SUCCESSFUL PRESSURE TEST IS COMPLETED AND PRACTICAL COMPLETION IS ISSUED.
- ALL OHS REQUIREMENTS ARE TO BE MET AS PER AS2865 (2009).
- CONFINED SPACE ENTRY: NOTIFY NEW AT COMMENCEMENT AND COMPLETION OF ENTRY 1300 361 844.
- CONTRACTOR TO HOLD CURRENT 'CONFINED SPACE ENTRY' CERTIFICATE AND ABIDE BY WORK SAFE'S COMPLIANCE CODE.



VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
01	29 OCTOBER 2024	ISSUED FOR AUTHORITY COMMENT
02	12 DECEMBER 2024	ISSUED FOR AUTHORITY APPROVAL
03	17 JANUARY 2025	ISSUED FOR AUTHORITY APPROVAL

NOTES:
1. PLANNING PERMIT NO. PH-App19-231

TBMs TO BE PROVIDED BY NESD PRIOR TO CONSTRUCTION
Matthew Sammon
MIE Aust NER PE0009832

SCALE
NTS
SHEET SIZE
A1
LEVELS ARE IN METRES TO AHD

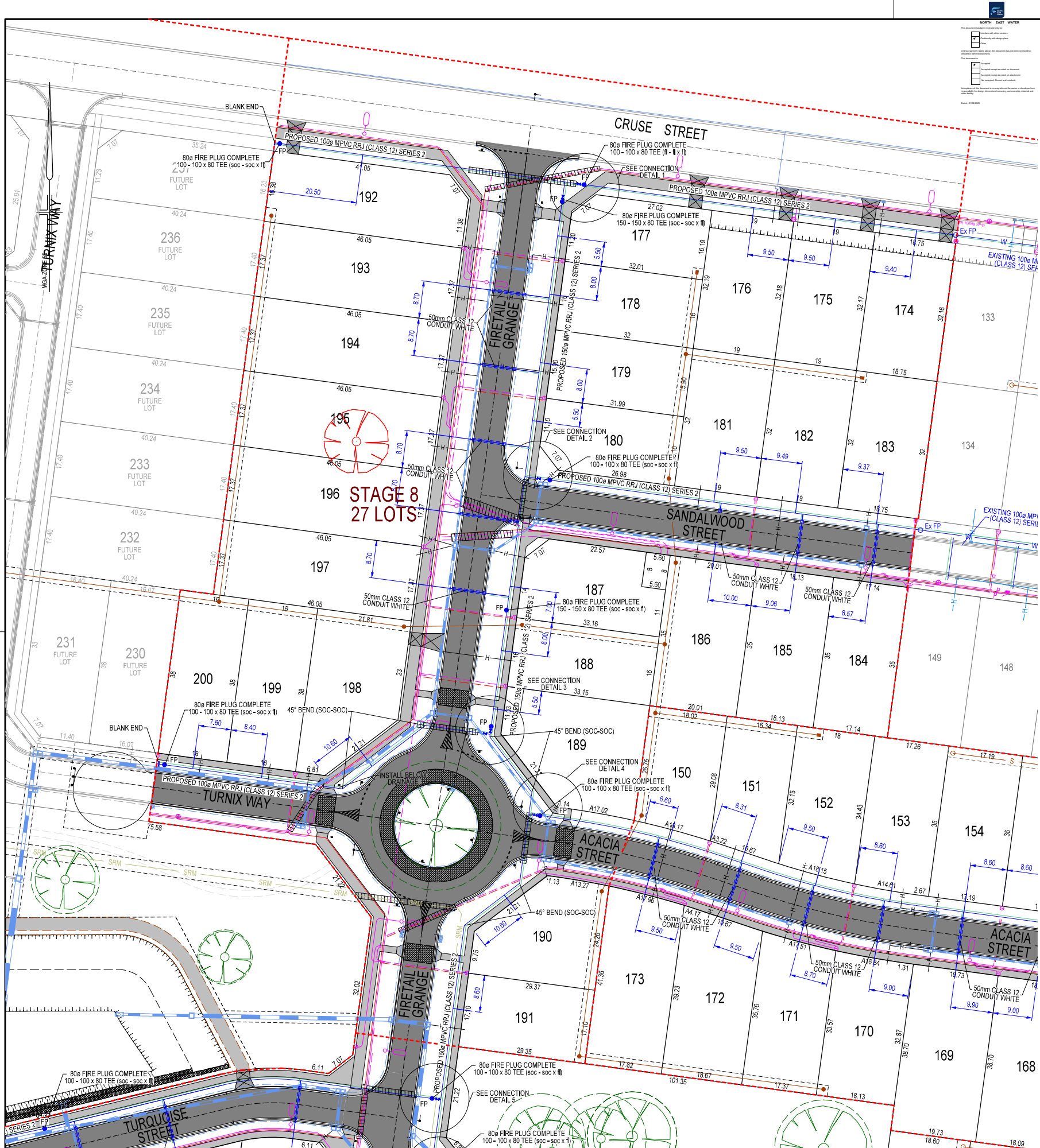
NOT TO SCALE



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COVER SHEET
WARBY VIEW ESTATE - STAGES 7, 8 & 9
CRUSE STREET, WANGARATTA
- GILINFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL
REFERENCE
M8122
VERSION
03
SHEET 1 OF 1

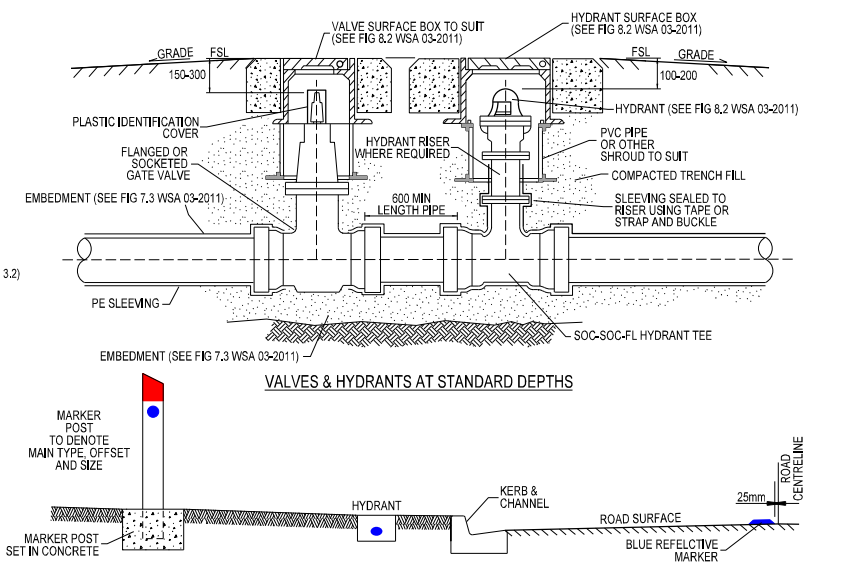


STANDARD DRAWING NUMBER	STANDARD DRAWING NAME
NERWC SD13550	MARKER POST DETAILS
NEW STANDARD WATER MAIN TAPPING	PROPERTY CONNECTION DETAIL (TPFNR)
FIGURE 5.10	PROPERTY SERVICES TO MAIN
FIGURE 7.3	EMBEDMENT & TRENCH FILL
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Water Services Association of Australia - Water Supply Code (WSA 03-2011 Current Version 3.2)



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CFA HYDRANTS AND MARKER DETAILS						
SERVICE OFFSET TABLE						
STREET NAME	RESERVE	BACK OF KERB	WATER	GAS	ELECTRICITY	TELSTRA
SOPHIA RIDGE BOULEVARD	18.00	4.05 N / 6.05 S	4.50 S	4.10 S	2.10 N	1.80 N
SANDLEWOOD STREET	16.00	4.05	2.50 N	2.10 N	2.10 S (EAST OF MDSK) / 2.05 S (WEST OF MDSK)	1.80 S (EAST OF MDSK) / 1.40 S (WEST OF MDSK)
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SALTBUSH STREET	16.00	4.05	2.50 N	2.10 N	2.00 S	1.80 S (EAST OF MDSK) / 1.40 S (WEST OF MDSK)
DAISY GRANGE	24.00	8.05	2.50 E	2.10 E	3.10 W	2.80 W
FIRETAIL STREET	16.00	4.05	2.50 N	2.10 N	2.10 S	1.80 S
FINOX WAY	16.00	4.05	2.50 N	2.10 N	2.10 S	1.80 S

- LEGEND**
- EXISTING TREE / TREE TO BE REMOVED
 - TREE PROTECTION ZONE
 - TBM's
 - EXISTING SEWER
 - PROPOSED SEWER
 - PROPOSED SEWER RISING MAIN
 - EXISTING WATER MAIN
 - PROPOSED WATER MAIN
 - EXISTING GAS MAIN
 - PROPOSED GAS MAIN
 - EXISTING TELSTRA LINE
 - EXISTING TELSTRA FIBRE OPTIC CABLE
 - PROPOSED TELSTRA LINE
 - EXISTING UNDERGROUND ELECTRICITY SUPPLY
 - EXISTING OVERHEAD ELECTRICITY SUPPLY
 - PROPOSED UNDERGROUND ELECTRICITY SUPPLY
 - PROPOSED ELECTRICITY CONDUIT
 - EXISTING DRAINAGE
 - PROPOSED DRAINAGE
 - PROPOSED AG DRAIN
 - 1 IN 100 ARI OVERLAND FLOODPATH
 - TITLE BOUNDARY
 - EASEMENTS
 - EXISTING EDGE OF SEAL
 - FENCES & GATES
 - TOP OF BANK
 - TOE OF BANK
 - PROPOSED TOP / TOE OF BANK
 - INVERT OPEN DRAIN
 - GRAVEL TRACK
 - BORED CONDUIT / SERVICE
 - EXISTING HOUSE DRAIN
 - INDICATIVE TPZ FENCING TO BE INSTALLED

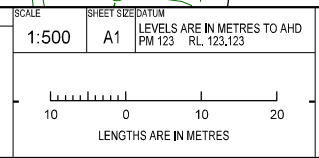
- WATER NOTES**
- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY NORTH EAST REGION WATER CORPORATION (NERWC).
 - NEWS TO BE NOTIFIED IN WRITING A MINIMUM OF FIVE (5) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 - THE CONTRACTOR SHALL HAND PROVE ANY EXISTING WATER SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 - WHERE WORKS ARE IN THE VICINITY OF AN AUTHORITIES EXISTING ASSETS, THESE ASSETS ARE TO BE LOCATED AND THE RELEVANT AUTHORITY NOTIFIED PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 - MINIMUM COVER BELOW THE FINISHED SURFACE LEVEL SHALL BE 600mm TO THE TOP OF THE MAIN.
 - WHERE MAINS CROSS STORMWATER DRAINS, THERE SHALL BE A MINIMUM CLEARANCE OF 150mm BETWEEN THE MAIN AND THE STORMWATER DRAIN.
 - WHERE WATER MAIN TRAVERSES OTHER SERVICES ALL APPLICABLE CLEARANCES ARE TO BE MAINTAINED IN ACCORDANCE WITH WSA REQUIREMENTS.
 - WHERE CONCRETE ANCHORAGES ARE USED, THE MAIN IS TO BE WRAPPED IN A PLASTIC MEMBRANE, RAPID SET CONCRETE IS NOT ACCEPTABLE.
 - ALL TRENCHES CROSSING ROADS SHALL BE BACKFILLED WITH MECHANICALLY COMPACTED CLASS 3 FOR TO THE SATISFACTION OF THE ROAD OWNER, REFER TO FIGURE 7.3 OF THE WSA STANDARDS.
 - ALL VALVES AND FIRE PLUGS ARE TO BE PLACED CLEAR OF ANY PROPOSED OR EXISTING VEHICLE CROSSING, REFER TO FIGURE 8.2 OF THE WSA STANDARDS.
 - ALL PIPELINE FITTINGS FOR JOINING DCL / UPVC PIPES SHALL BE CAST OR DUCTILE IRON, CEMENT LINED AND CONFORM TO AS2544 AND AS2280.
 - WHERE GIBBULT JOINTS ARE USED THEY ARE TO BE THE ELONGATED TYPE OR VARI GB TYPE ONLY.
 - PROPERTY CONNECTIONS ARE SHOWN THUS AND ARE TO BE PLACED CENTRALLY ALONG LOT FRONTAGE UNLESS OTHERWISE SHOWN.
 - PROPERTY CONNECTIONS ARE TO BE TPFNR 20mm COPPER (CLASS A) PIPE OR 25mm PE (PN 12.5) PIPE WITH COPPER TRACE WIRE.
 - PROPERTY CONNECTIONS TO EXISTING MAINS ARE TO BE CARRIED OUT BY A LICENSED PLUMBER AFTER TAKING OUT THE APPROPRIATE APPLICATION FORM WITH NORTH EAST WATER AND RECEIVING WRITTEN APPROVAL.
 - CONDUITS TO BE A MINIMUM 50mm CLASS 12 FOR ALL PROPERTY CONNECTIONS UNDER ROADS AND TO BE INSTALLED SO THAT WATER HAMMER AND PRESSURE FLUCTUATIONS DO NOT CAUSE PIPE MOVEMENT IN THE SLEEVE.
 - CONNECTION TO EXISTING MAINS IN CONJUNCTION WITH NORTH EAST WATER AFTER SUCCESSFUL PRESSURE TESTING. THE CONTRACTOR IS TO PROVIDE ALL MATERIALS AND LABOUR NECESSARY FOR THE CONNECTION, REFER TO FIGURE 5.10 OF THE WSA STANDARDS.
 - FOR CONNECTIONS TO EXISTING MAINS THE CONTRACTOR MUST INSPECT AND VERIFY THE SIZE, MATERIAL, CONNECTION TYPE AND DEPTH OF THE EXISTING MAIN PRIOR TO COMMENCING WORKS.
 - AT THE END OF EACH DAY ALL MAINS ARE TO BE PLUGGED TO PREVENT SILT FROM GROUND WATER ENTERING ANY MAINS DURING THE CONSTRUCTION WORKS PERIOD.
 - ON THE COMPLETION OF THE WORKS THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND EXCESS SPOIL FROM THE SITE.
 - MARKER POSTS ARE REQUIRED AT FIRE HYDRANTS, SLUICE VALVES & BENDS AS REQUIRED.
 - ALL WORKS ON THE WATER MAIN TO BE UNDERTAKEN BY A NORTH EAST WATER ACCREDITED CONTRACTOR.
 - ALL CLEARANCES TO OTHER SERVICES TO BE MAINTAINED AS PER WSA STANDARDS.
 - VERIFY LOCATION AND SUITABILITY OF EXISTING PROPERTY CONNECTIONS. NORTH EAST WATER REPRESENTATIVE MUST BE PRESENT.
 - PIPES AND FITTINGS TO BE STORED ON-SITE IN ACCORDANCE WITH WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011 3.2 ON-SITE STORAGE.

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02	12 DECEMBER 2024	ISSUED FOR AUTHORITY APPROVAL

NOTES:

PLANNING PERMIT NO: P19App19/231

REGISTERED
NER
Engineers Australia



NORTH EAST

SURVEY DESIGN

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WATER RETICULATION LAYOUT PLAN

WARBY VIEWS ESTATE - STAGES 7, 8 & 9

CRUSE STREET WANGARATTA

- GILFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL

REFERENCE VERSION
M8122 02 SHEET 1 OF 15

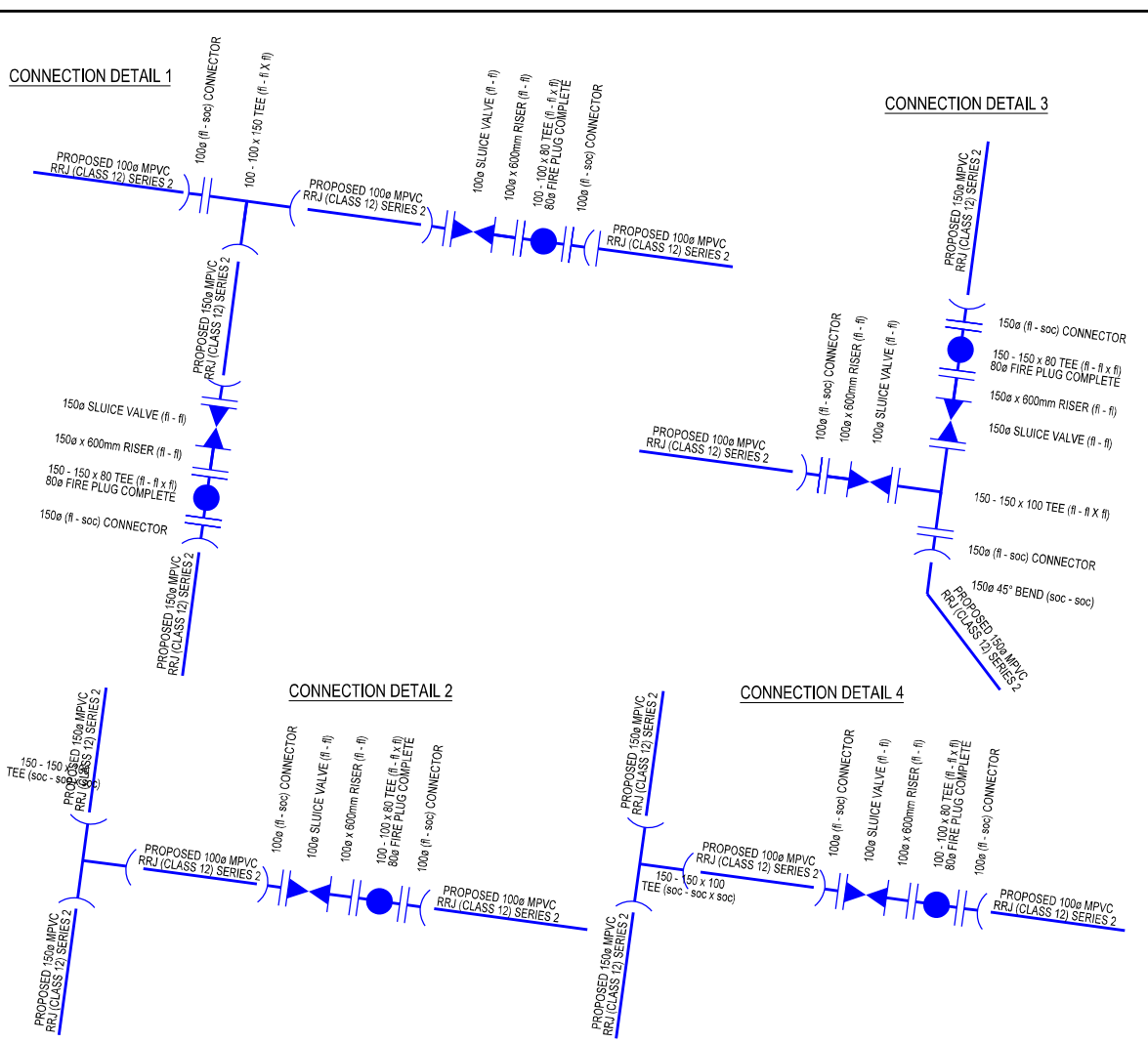
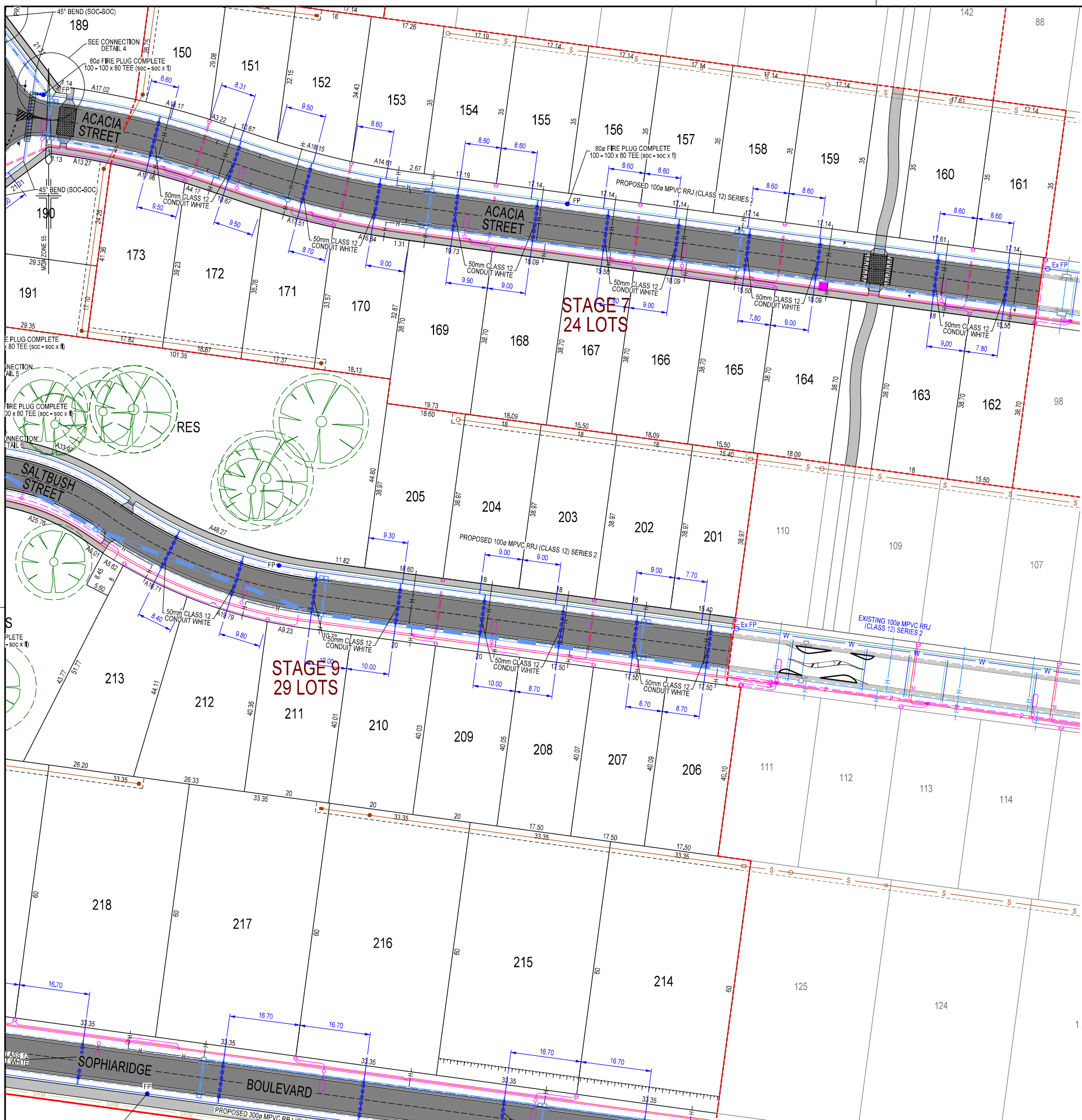


Table 5.5 CLEARANCES BETWEEN WATER MAINS AND UNDERGROUND SERVICES

Utility (Existing or proposed service)	Minimum horizontal clearance mm		Minimum vertical clearance ¹ mm
	New main size		
	≤DN 200	>DN 200	
Water mains ² >DN 375	600	600	300
Water mains ≤DN 375	300 ³	600	150
Gas mains	300 ³	600	150
Telecommunication conduits and cables	300 ³	600	150
Electricity conduits and cables	500	1000	225 ⁷
Stormwater drains	300 ³	600	150 ⁴
Sewers – gravity	1000 ⁵ /600	1000 ⁵ /600	500 ⁴
Sewers – pressure and vacuum	600	600	300
Kerbs	150	600 ⁶	150 (where possible)

SERVICE OFFSET TABLE

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SALTBUSH STREET	16,00	4,05	2,50 N	2,10 N	2,00 S	1,80 S (EAST OF KIOSK) 1,40 S (WEST OF KIOSK)
DAISY GRANGE	24,00	8,05	2,50 E	2,10 E	3,10 W	2,80 W
FIRETAIL STREET	16,00	4,05	2,50 N	2,10 N	2,10 S	1,80 S
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NOTES:
PLANNING PERMIT NO: P19App19/231

REGISTERED
NER
Engineers Australia

SCALE
1:500

SHEET SIZE
A1

DATUM
LEVELS ARE IN METRES TO AHD
FM 123 RL 123.123

LENGTHS ARE IN METRES

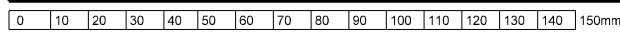
NORTH EAST
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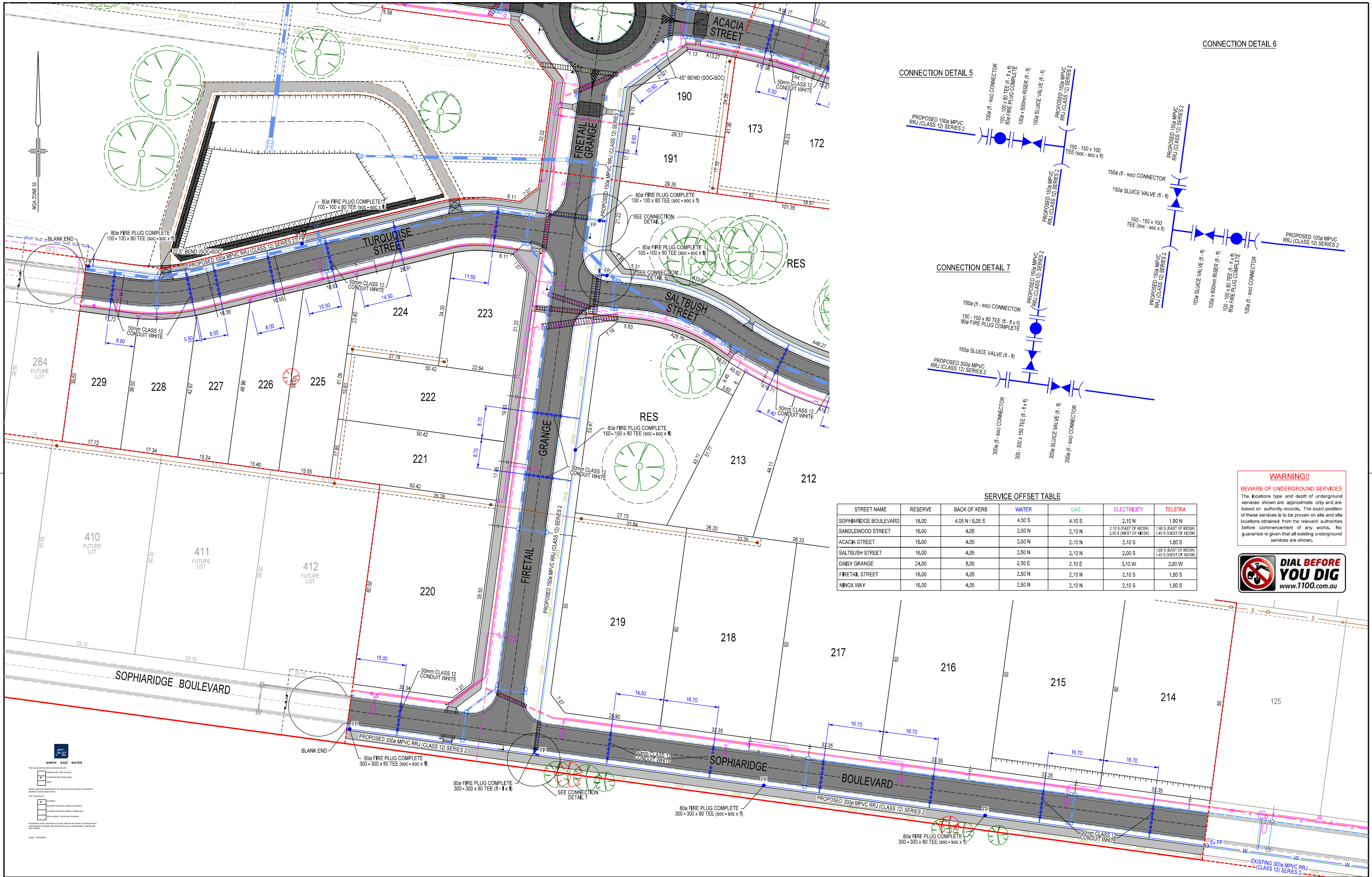
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WATER RETICULATION LAYOUT PLAN
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL

REFERENCE VERSION
M8122_02 SHEET 2 OF 15





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02	12 DECEMBER 2024	ISSUED FOR AUTHORITY APPROVAL

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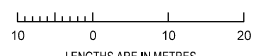


REGISTERED
NER
Engineers Australia

SCALE
1:500

SHEET SIZE
A1

DATUM
LEVELS ARE IN METRES TO AHD
FM 123 RL 123.123



LENGTHS ARE IN METRES



NORTH EAST
SURVEY DESIGN

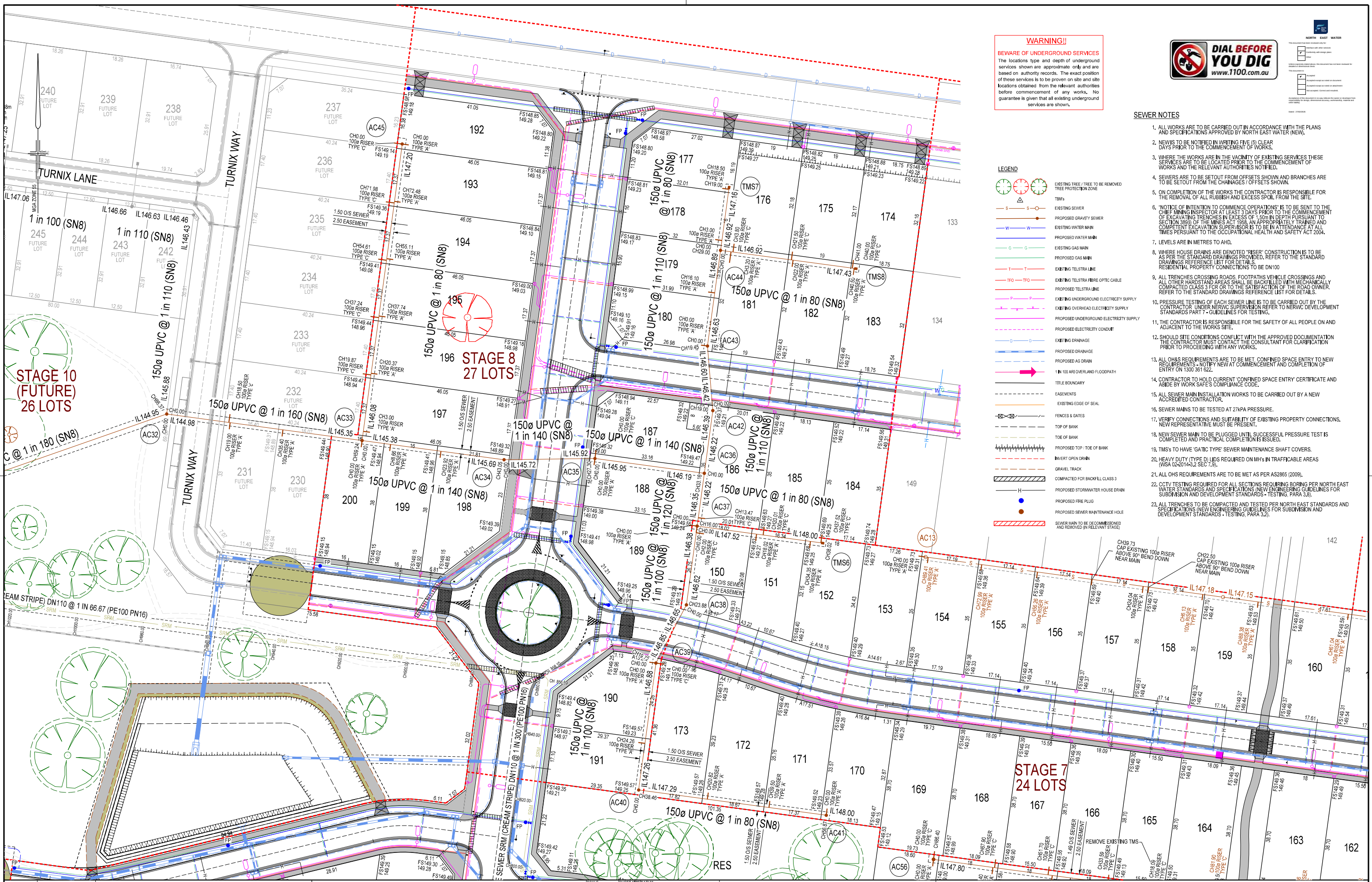
ABN 63 127 459 367
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Wangaratta VIC 3676
Mobile 0407 216 710
Fax 03 5721 6701
matt@nesd.com.au
www.nesd.com.au

WATER RETICULATION LAYOUT PLAN

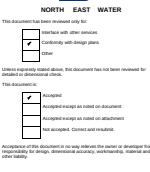
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL

REFERENCE VERSION
M8122_02 SHEET 3 OF 15



WARNING!!
BEWARE OF UNDERGROUND SERVICES
The locations type and depth of underground services shown are approximate only and are based on authority records. The exact position of these services is to be proven on site and locations obtained from the relevant authorities before commencement of any works. No guarantee is given that all existing underground services are shown.



SEWER NOTES

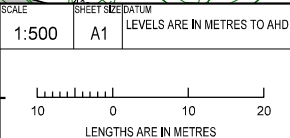
1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY NORTH EAST WATER (NEW).
2. NEWIS TO BE NOTIFIED IN WRITING FIVE (5) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
3. WHERE THE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED PRIOR TO THE COMMENCEMENT OF WORKS AND THE RELEVANT AUTHORITIES NOTIFIED.
4. SEWERS ARE TO BE SET OUT FROM OFFSETS SHOWN AND BRANCHES ARE TO BE SET OUT FROM THE CHANGES / OFFSETS SHOWN.
5. ON COMPLETION OF THE WORKS THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND EXCESS SPILL FROM THE SITE.
6. NOTICE OF INTENTION TO COMMENCE OPERATIONS IS TO BE SENT TO THE CHIEF MINING INSPECTOR AT LEAST 10 DAYS PRIOR TO THE COMMENCEMENT OF EXCAVATING TRENCHES IN EXCESS OF 1.50m IN DEPTH PURSUANT TO SECTION 389U OF THE MINES ACT 1988. AN APPROPRIATELY TRAINED AND COMPETENT EXCAVATION SUPERVISOR IS TO BE IN ATTENDANCE AT ALL TIMES PURSUANT TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004.
7. LEVELS ARE IN METRES TO AHD.
8. WHERE HOUSE DRAINS ARE DENOTED 'RISER' CONSTRUCTION IS TO BE AS PER THE STANDARD DRAWINGS PROVIDED. REFER TO THE STANDARD DRAWINGS REFERENCE LIST FOR DETAILS.
9. ALL TRENCHES CROSSING ROADS, FOOTPATHS VEHICLE CROSSINGS AND ALL OTHER HARDSTAND AREAS SHALL BE BACKFILLED WITH MECHANICALLY COMPACTED CLASS 3 FILL OR TO THE SATISFACTION OF THE ROAD OWNER. REFER TO THE STANDARD DRAWINGS REFERENCE LIST FOR DETAILS.
10. PRESSURE TESTING OF EACH SEWER LINE IS TO BE CARRIED OUT BY THE CONTRACTOR UNDER NERVIC SUPERVISION REFER TO NERVIC DEVELOPMENT STANDARDS PART 7 - GUIDELINES FOR TESTING.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF ALL PEOPLE ON AND ADJACENT TO THE WORKS SITE.
12. SHOULD SITE CONDITIONS CONFLICT WITH THE APPROVED DOCUMENTATION THE CONTRACTOR MUST CONTACT THE CONSULTANT FOR CLARIFICATION PRIOR TO PROCEEDING WITH ANY WORKS.
13. ALL OHS REQUIREMENTS ARE TO BE MET. CONFINED SPACE ENTRY TO NEW REQUIREMENTS - NOTIFY NEW AT COMMENCEMENT AND COMPLETION OF ENTRY ON 1301 622.
14. CONTRACTOR TO HOLD CURRENT CONFINED SPACE ENTRY CERTIFICATE AND ABIDE BY WORK SAFES COMPLIANCE CODE.
15. ALL SEWER MAIN INSTALLATION WORKS TO BE CARRIED OUT BY A NEW ACCREDITED CONTRACTOR.
16. SEWER MAINS TO BE TESTED AT 27kPa PRESSURE.
17. VERIFY CONNECTIONS AND SUITABILITY OF EXISTING PROPERTY CONNECTIONS. NEW REPRESENTATIVE MUST BE PRESENT.
18. NEW SEWER MAIN TO BE PLUGGED UNTIL SUCCESSFUL PRESSURE TEST IS COMPLETED AND PRACTICAL COMPLETION IS ISSUED.
19. TMS'S TO HAVE 'GATIC' TYPE SEWER MAINTENANCE SHAFT COVERS.
20. HEAVY DUTY (TYPE D) LIDS REQUIRED ON MH'S IN TRAFFICABLE AREAS (WISA 02-2014-3.2 SEC 7.3).
21. ALL OHS REQUIREMENTS ARE TO BE MET AS PER AS2865 (2009).
22. CCTV TESTING REQUIRED FOR ALL SECTIONS REQUIRING BORING PER NORTH EAST WATER STANDARDS AND SPECIFICATIONS NEW ENGINEERING GUIDELINES FOR SUBDIVISION AND DEVELOPMENT STANDARDS - TESTING, PARA 3.3).
23. ALL TRENCHES TO BE COMPACTED AND TESTED PER NORTH EAST STANDARDS AND SPECIFICATIONS NEW ENGINEERING GUIDELINES FOR SUBDIVISION AND DEVELOPMENT STANDARDS - TESTING, PARA 3.2).

LEGEND

- EXISTING TREE / TREE TO BE REMOVED
- TREE PROTECTION ZONE
- TBM'S
- EXISTING SEWER
- PROPOSED GRAVITY SEWER
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING TELSTRA LINE
- PROPOSED TELSTRA LINE
- EXISTING UNDERGROUND ELECTRICITY SUPPLY
- EXISTING OVERHEAD ELECTRICITY SUPPLY
- PROPOSED UNDERGROUND ELECTRICITY SUPPLY
- PROPOSED ELECTRICITY CONDUIT
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- PROPOSED AG DRAIN
- 1 IN 100 ARI OVERLAND FLOODPATH
- TITLE BOUNDARY
- EASEMENTS
- EXISTING EDGE OF SEAL
- FENCES & GATES
- TOP OF BANK
- TOE OF BANK
- PROPOSED TOP / TOE OF BANK
- INVERT OPEN DRAIN
- GRAVEL TRACK
- COMPACTED FOR BACKFILL CLASS 3
- PROPOSED STORMWATER HOUSE DRAIN
- PROPOSED FIRE PLUG
- PROPOSED SEWER MAINTENANCE HOLE
- SEWER MAIN TO BE DECOMMISSIONED AND REMOVED (IN RELEVANT STAGE)

VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
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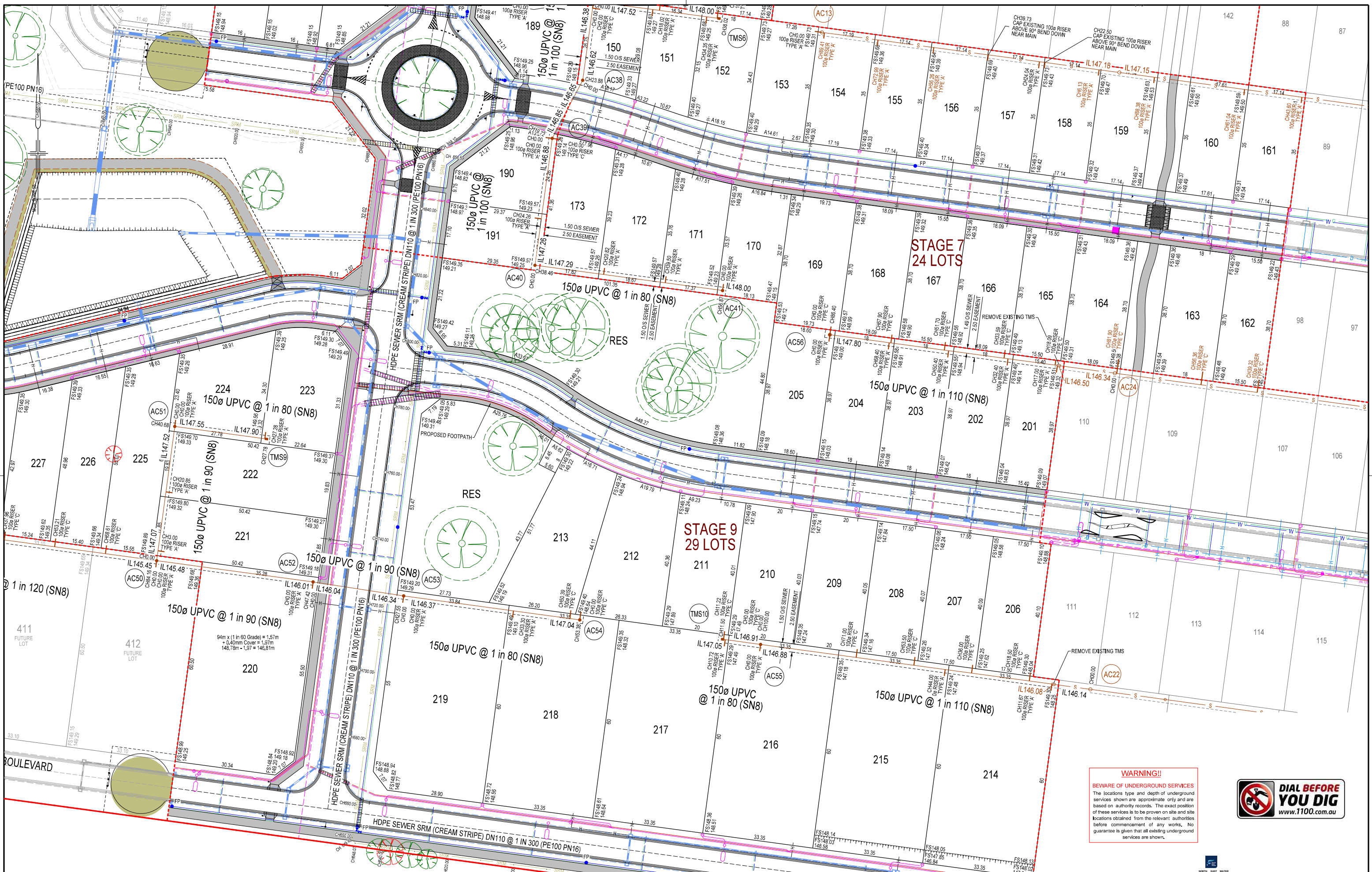
NOTES:
PLANNING PERMIT NO: P14Ap19/231



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SEWER LAYOUT PLAN
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL
REFERENCE VERSION
M8122 03 SHEET 4 OF 15



VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
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NOTES:

PLANNING PERMIT NO: P14App19/231



REGISTERED
NER
Engineers Australia

SCALE

1:500

SHEET SIZE A1

LEVELS ARE IN METRES TO AHD

LENGTHS ARE IN METRES



NORTH EAST
SURVEY DESIGN

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SEWER LAYOUT PLAN

WARBY VIEWS ESTATE - STAGES 7, 8 & 9

CRUSE STREET WANGARATTA

- GILFINITY PTY LTD

WARNING!!

BEWARE OF UNDERGROUND SERVICES

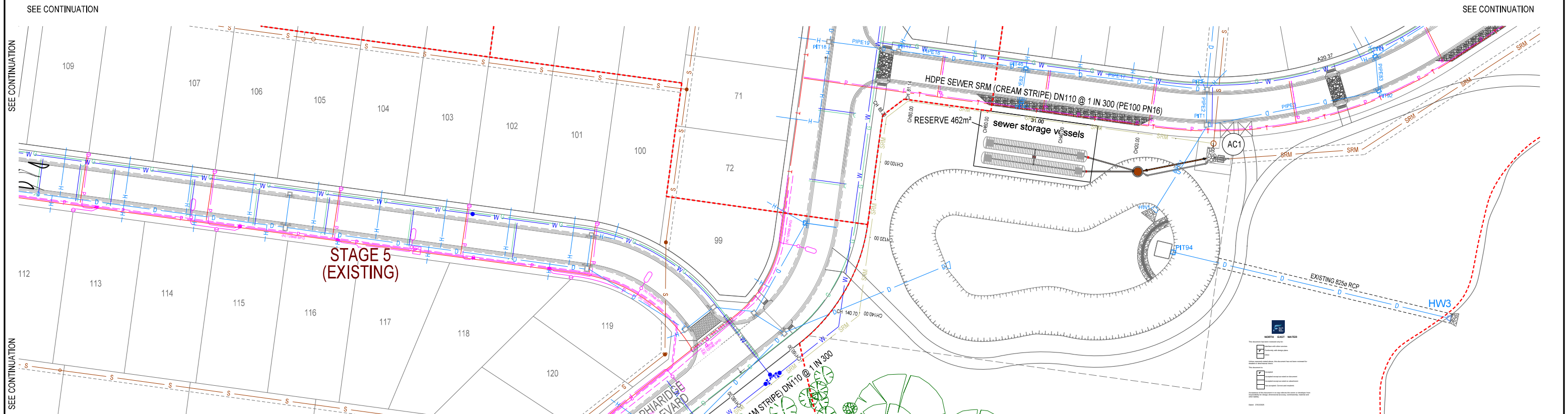
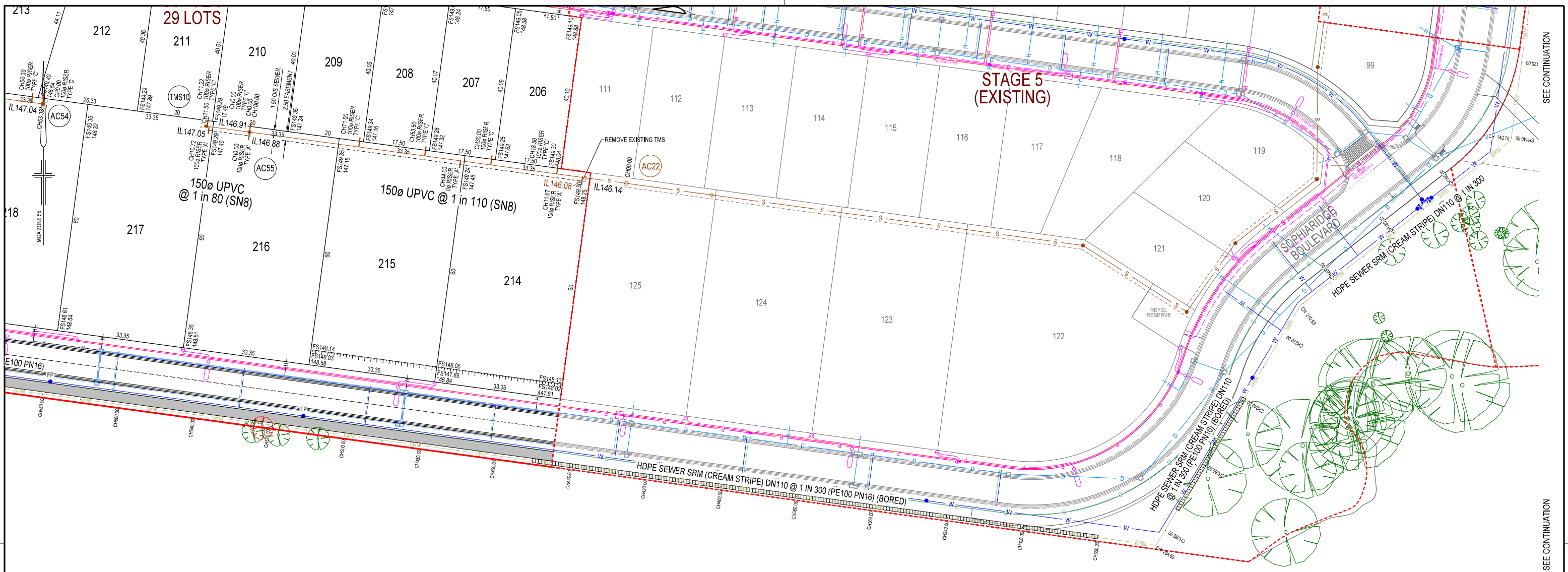
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ISSUE STATUS

FOR APPROVAL

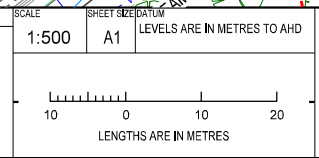
REFERENCE VERSION

M8122 03 SHEET 6 OF 15



VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
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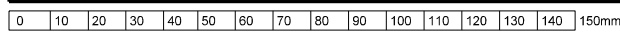
NOTES:
PLANNING PERMIT NO: P11App19/231

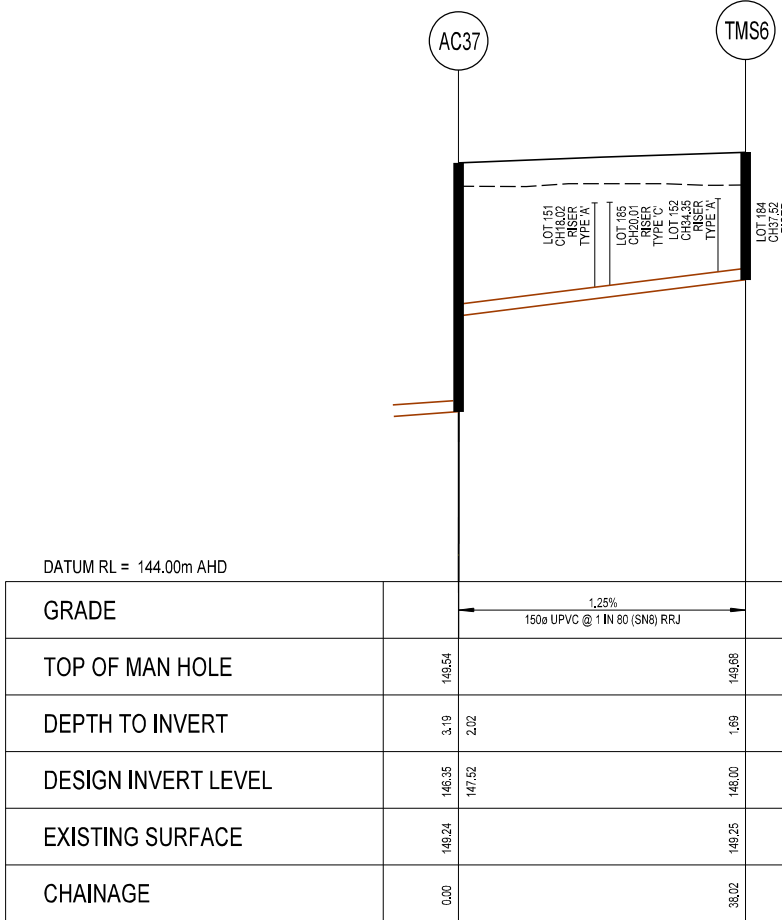
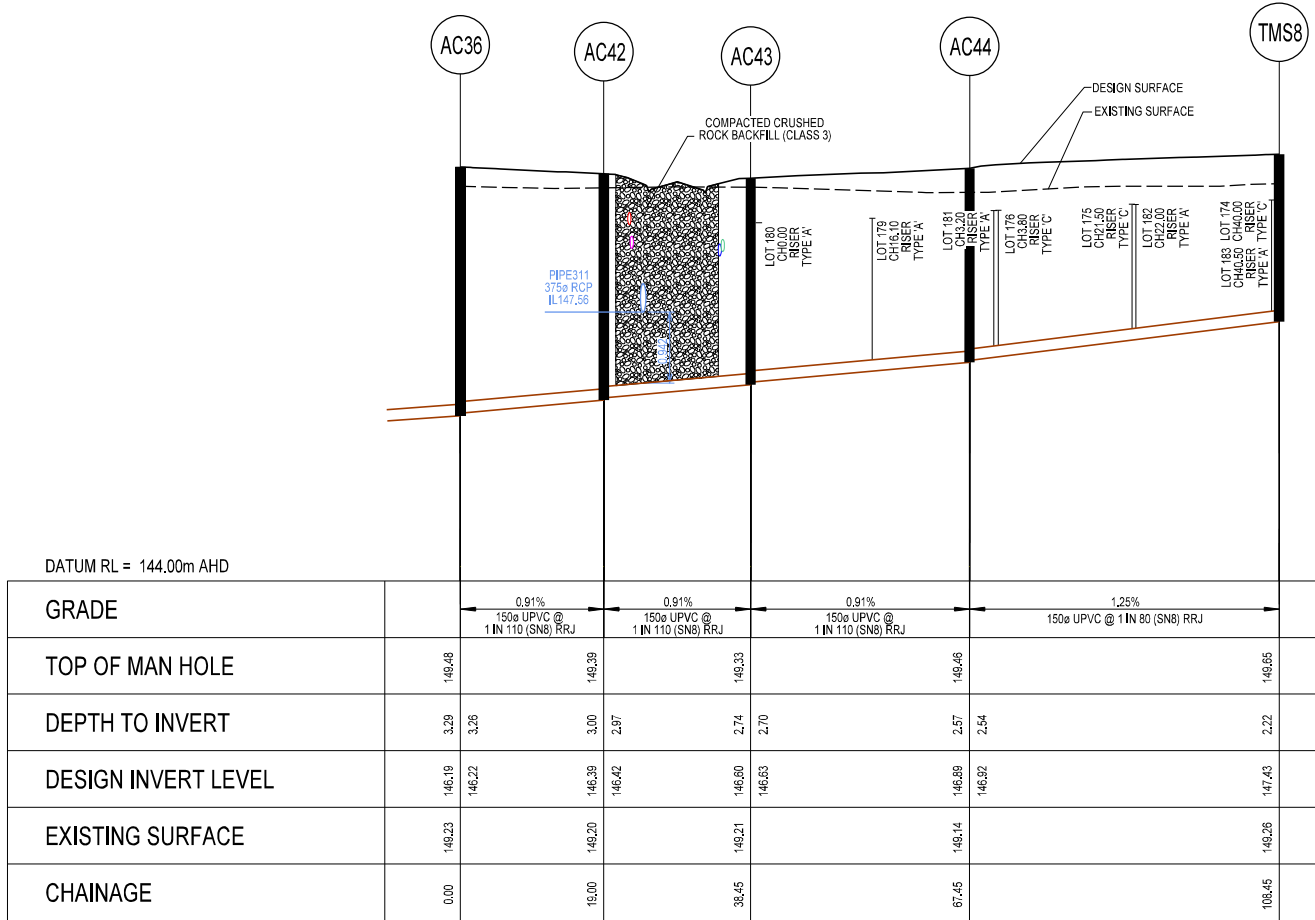
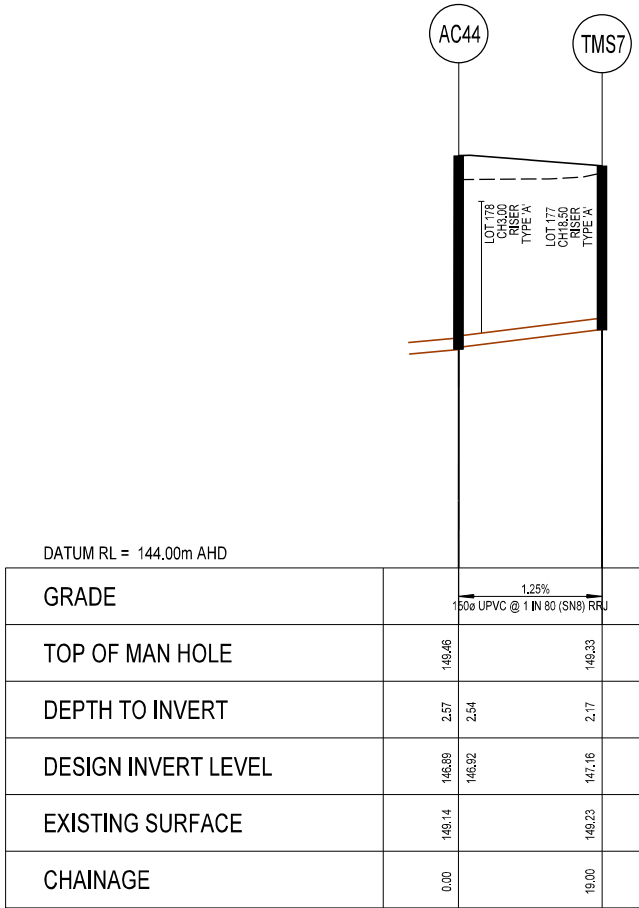
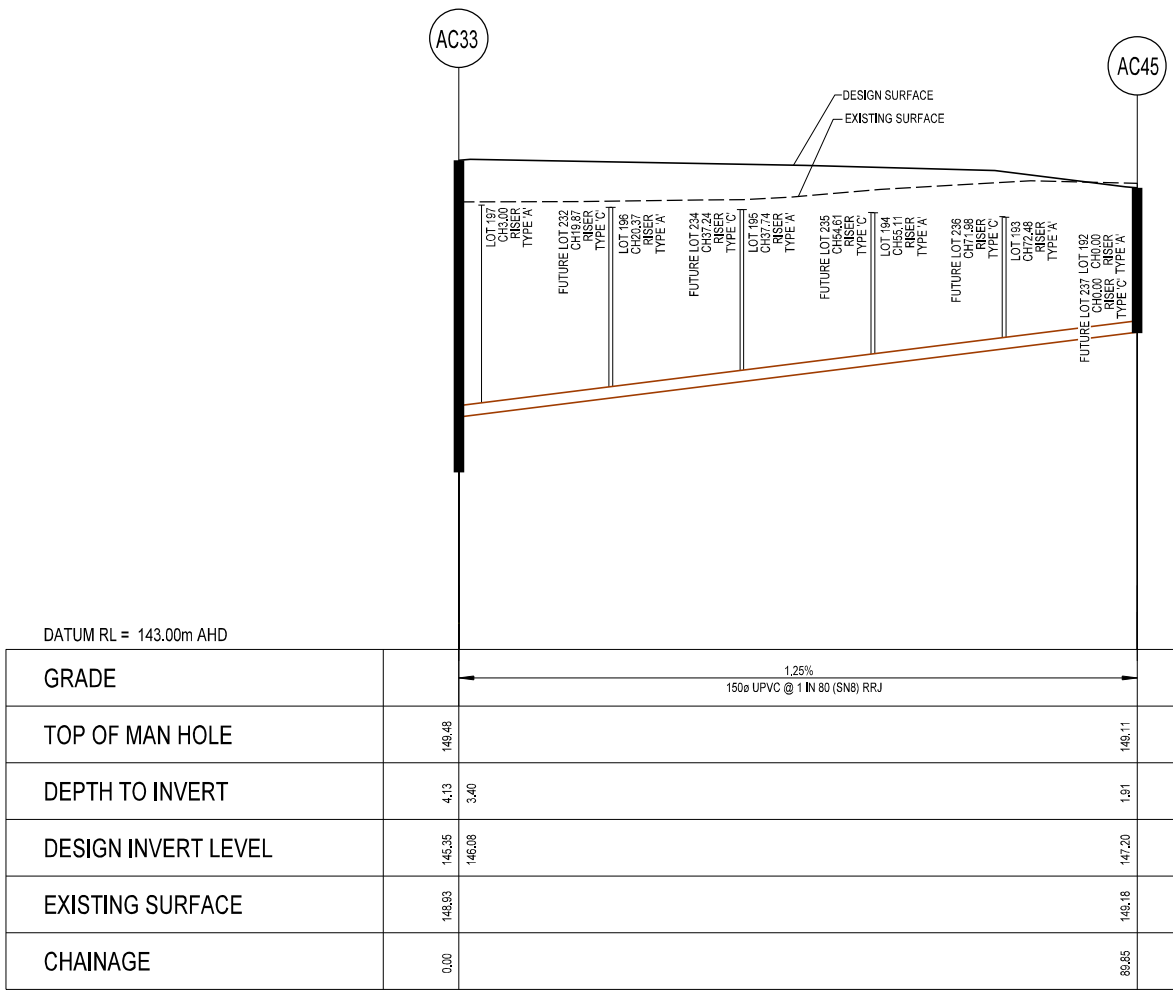


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SEWER LAYOUT PLAN
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS	FOR APPROVAL
REFERENCE VERSION	M8122_03
SHEET	7 OF 15

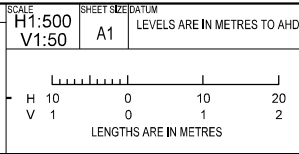




VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
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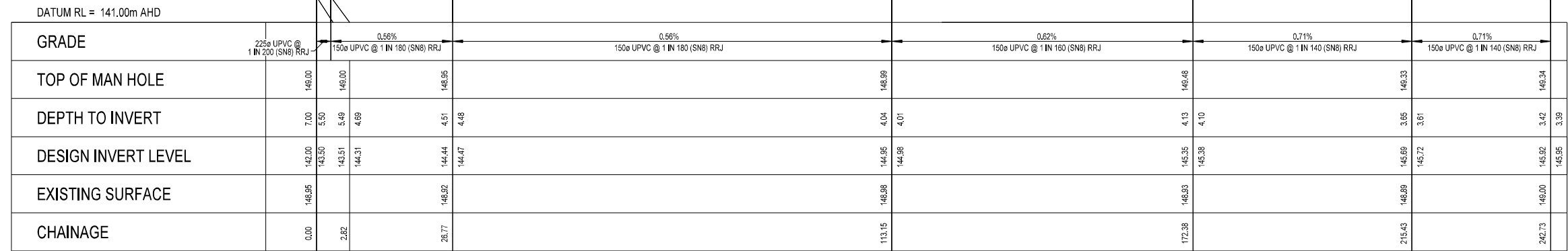
SEWER LONGITUDINAL SECTIONS

WARBY VIEWS ESTATE - STAGES 7, 8 & 9

CRUSE STREET WANGARATTA

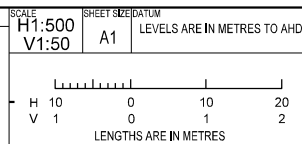
- GILFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL
REFERENCE
M8122
VERSION
03
SHEET 8 OF 15



VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
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PLANNING PERMIT NO: PlnApp19/231

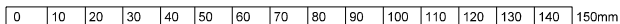


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SEWER LONGITUDINAL SECTIONS

WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

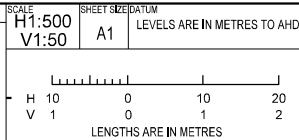
ISSUE STATUS		
FOR APPROVAL		
REFERENCE	VERSION	
M8122	03	SHEET 9 OF 15





DATUM RL = 139.00m AHD

NOTES:
PLANNING PERMIT NO: PInApp19/231

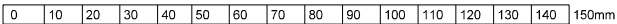


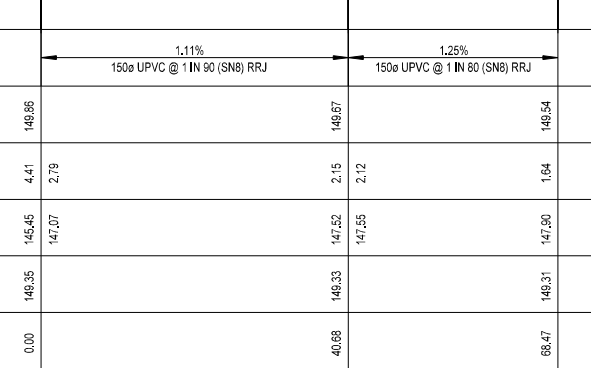
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SEWER LONGITUDINAL SECTIONS

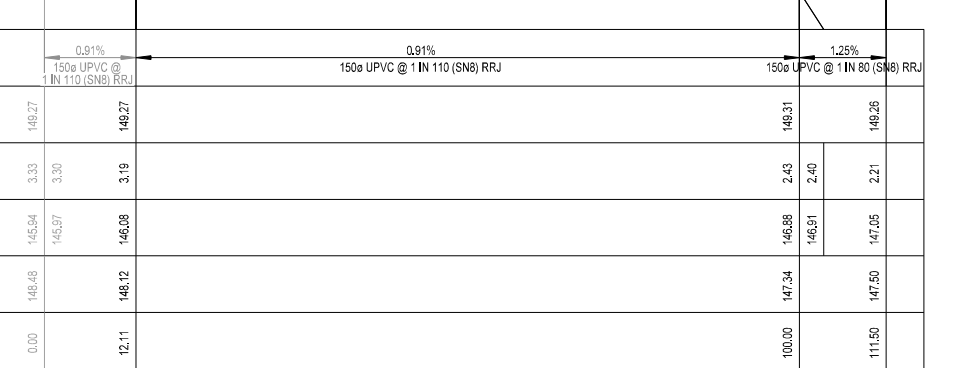
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS		
FOR APPROVAL		
REFERENCE	VERSION	
M8122	03	SHEET10OF 15

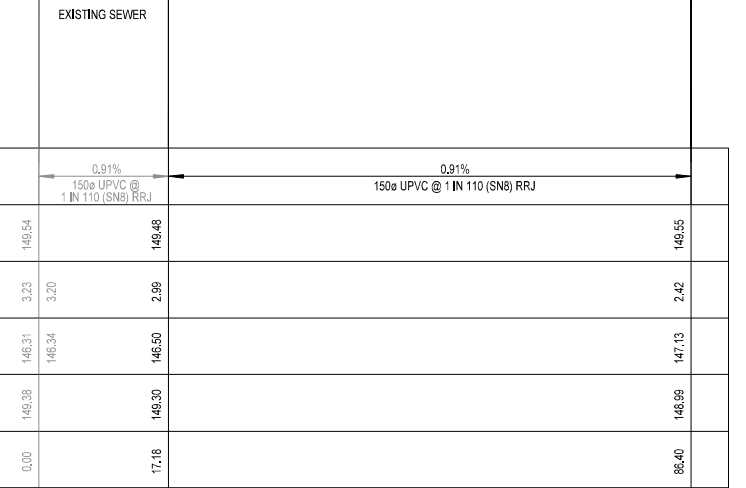




GRADE			1.11% 150ø UPVC @ 1 IN 80 (SN8) RRJ	1.25% 150ø UPVC @ 1 IN 80 (SN8) RRJ	
TOP OF MAN HOLE		149.86		149.87	149.84
DEPTH TO INVERT		4.41	2.79	2.15	2.12
DESIGN INVERT LEVEL		145.45	147.07	147.52	147.55
EXISTING SURFACE		149.35		149.33	149.31
CHAINAGE		0.00		40.68	68.47



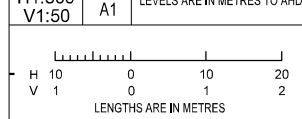
GRADE			0.91%	0.91%	0.91%	1.25%	
TOP OF MAN HOLE		149.27	149.27			149.31	149.26
DEPTH TO INVERT	3.33	3.30	3.19			2.43	2.21
DESIGN INVERT LEVEL	145.94	145.97	146.08			146.88	147.05
EXISTING SURFACE	148.48		148.12			147.34	147.50
CHAINAGE	0.00		12.11			100.00	111.50



GRADE		0.91% 150ø UPVC @ 1 IN 110 (SN8) RRJ	0.91% 150ø UPVC @ 1 IN 110 (SN8) RRJ	
TOP OF MAN HOLE	149.54	149.48		149.55
DEPTH TO INVERT	3.23	3.20	2.99	2.42
DESIGN INVERT LEVEL	146.31	146.34	146.50	147.13
EXISTING SURFACE	149.38		149.30	148.99
CHAINAGE	0.00		17.16	86.40

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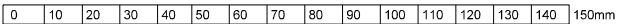


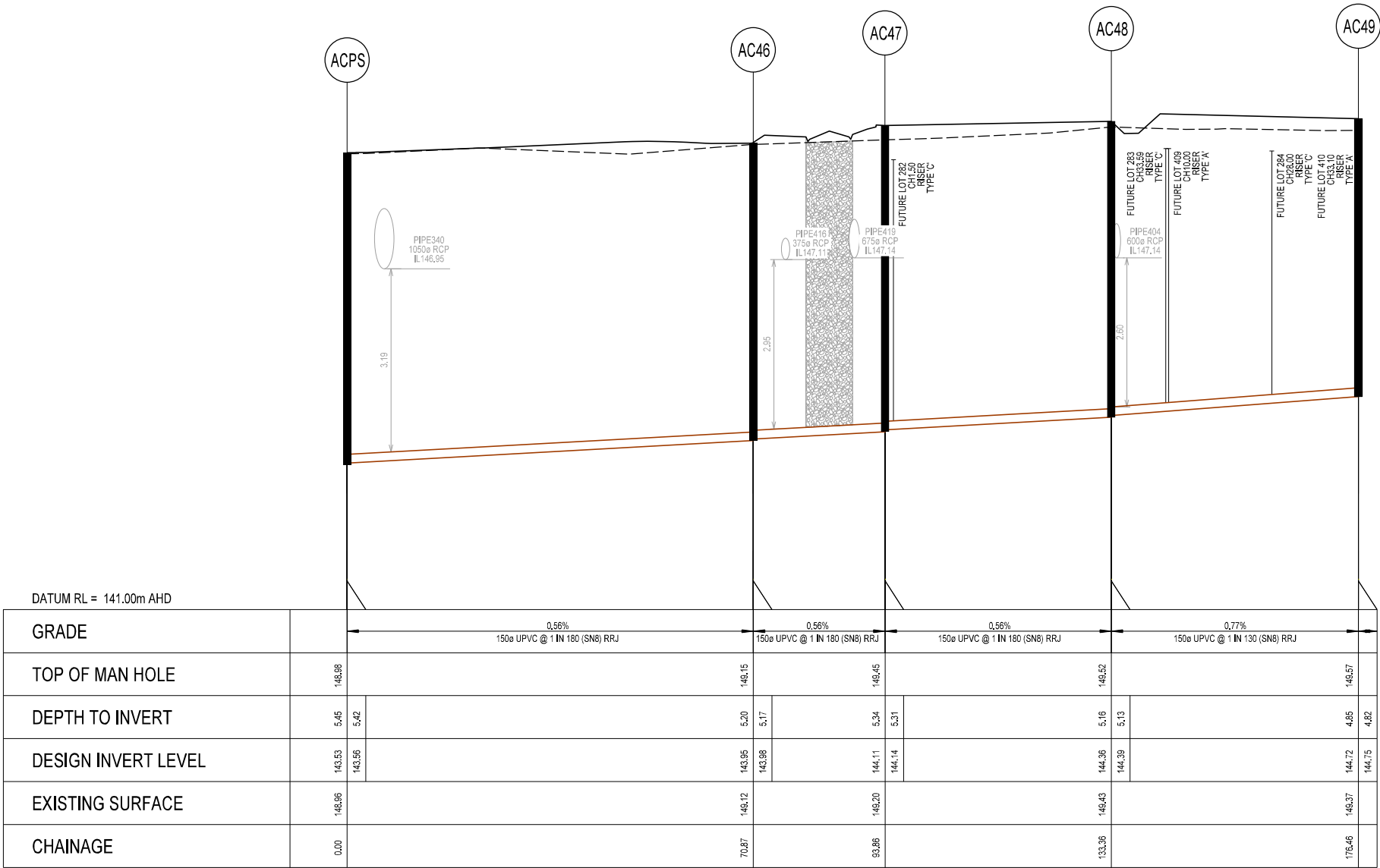
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SEWER LONGITUDINAL SECTIONS

WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS		
FOR APPROVAL		
REFERENCE	VERSION	
M8122	03	SHEET11OF 15





VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
01	29 OCTOBER 2024	ISSUED FOR AUTHORITY COMMENTS
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03	17 JANUARY 2025	ISSUED FOR AUTHORITY APPROVAL

NOTES:
PLANNING PERMIT NO: P11App19/231



SCALE
H: 1:500
V: 1:50
SHEET SIZE
A1
LEVELS ARE IN METRES TO AHD

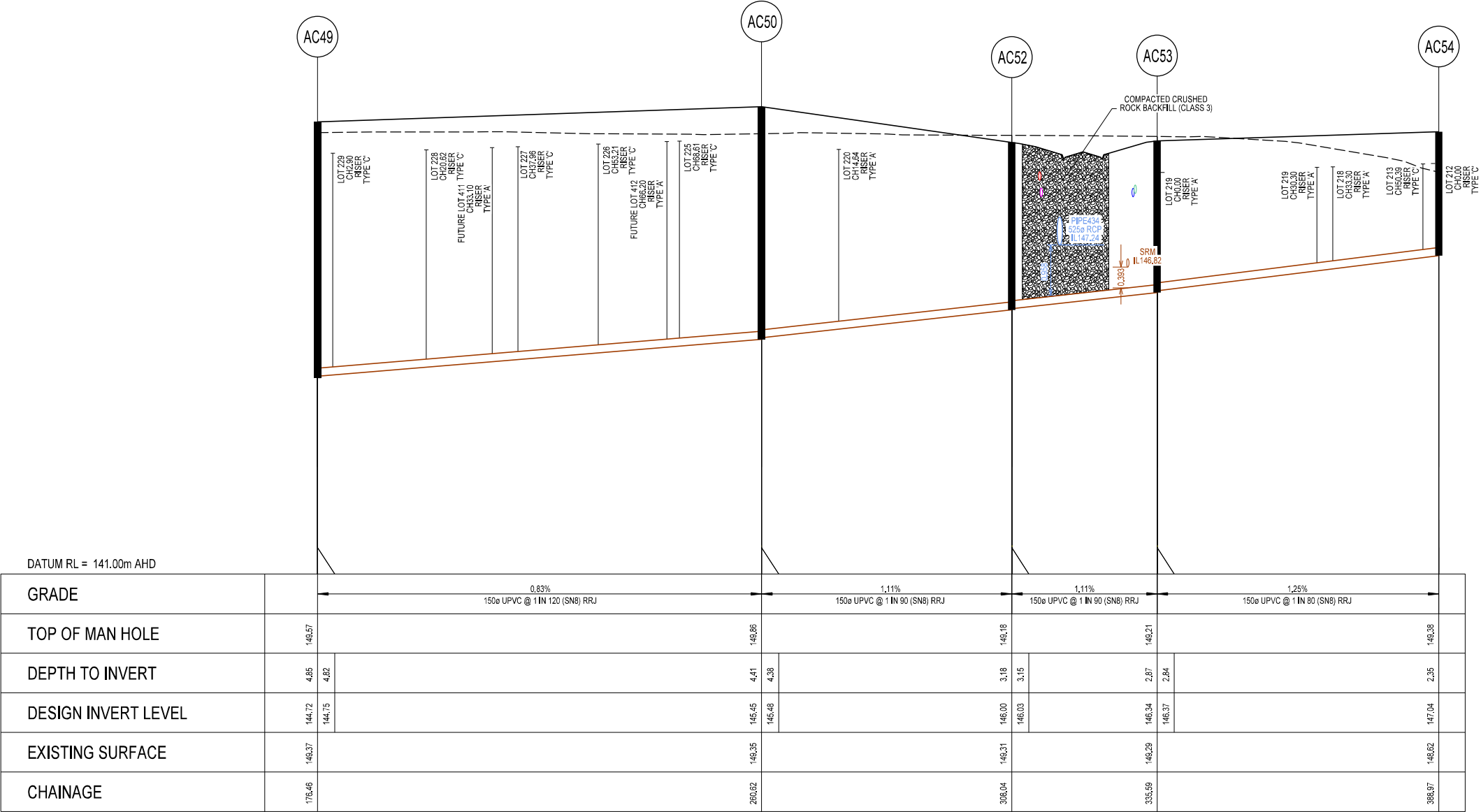
LENGTHS ARE IN METRES



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SEWER LONGITUDINAL SECTIONS
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

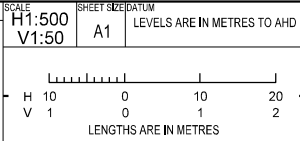
ISSUE STATUS		
FOR APPROVAL		
REFERENCE	VERSION	
M8122	03	SHEET12OF 15



VERSION	DATE	AMENDMENT / VERSION DESCRIPTION
01	29 OCTOBER 2024	ISSUED FOR AUTHORITY COMMENTS
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NOTES:

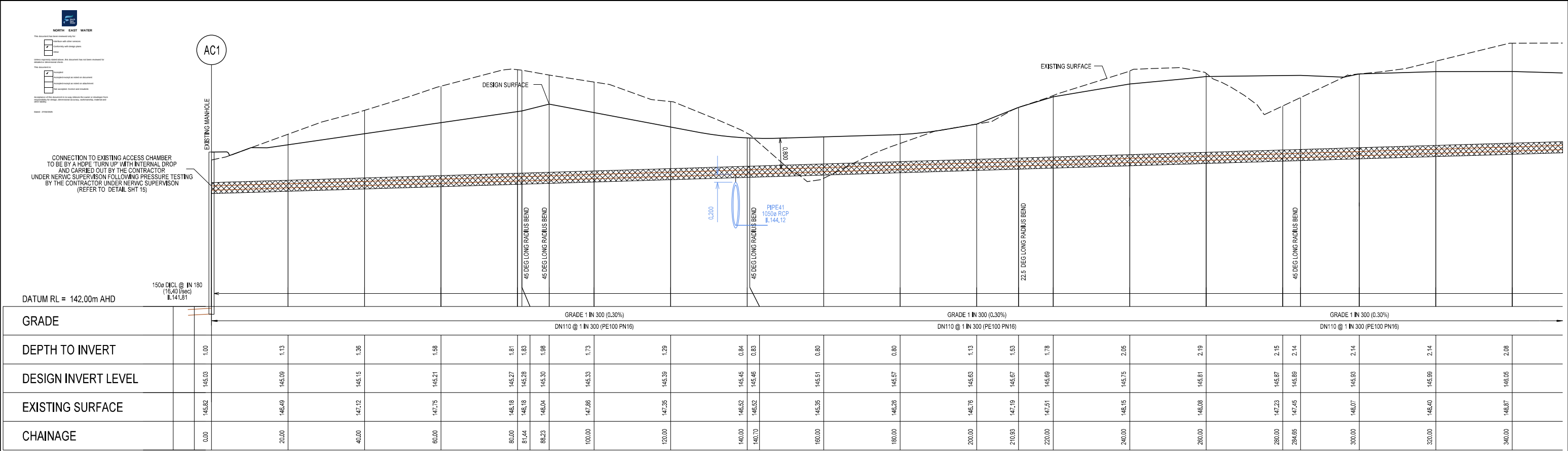
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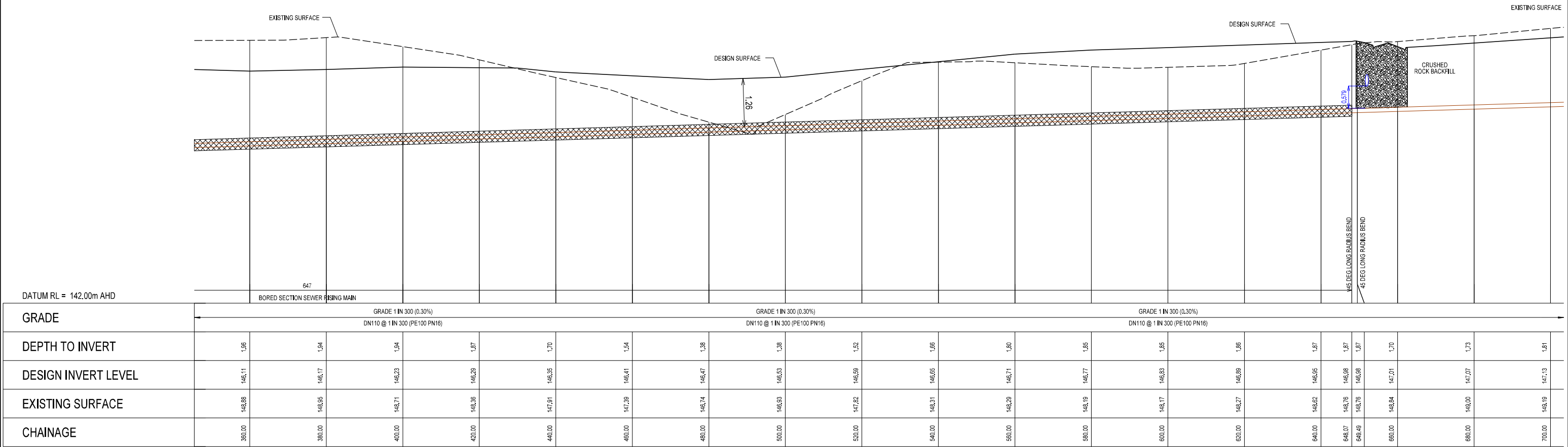
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SEWER LONGITUDINAL SECTIONS
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS	
FOR APPROVAL	
REFERENCE	VERSION
M8122	03



SEWER RISING MAIN LONGITUDINAL SECTIONS



SEWER RISING MAIN LONGITUDINAL SECTIONS

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03	17 JANUARY 2025	ISSUED FOR AUTHORITY APPROVAL

NOTES:

PLANNING PERMIT NO: P19App19/231



REGISTERED
Engineers Australia
MEMBER

SCALE

H1:500
V1:50

SHEET SIZE

A1

DATUM

LEVELS ARE IN METRES TO AHD



NORTH EAST
SURVEY DESIGN

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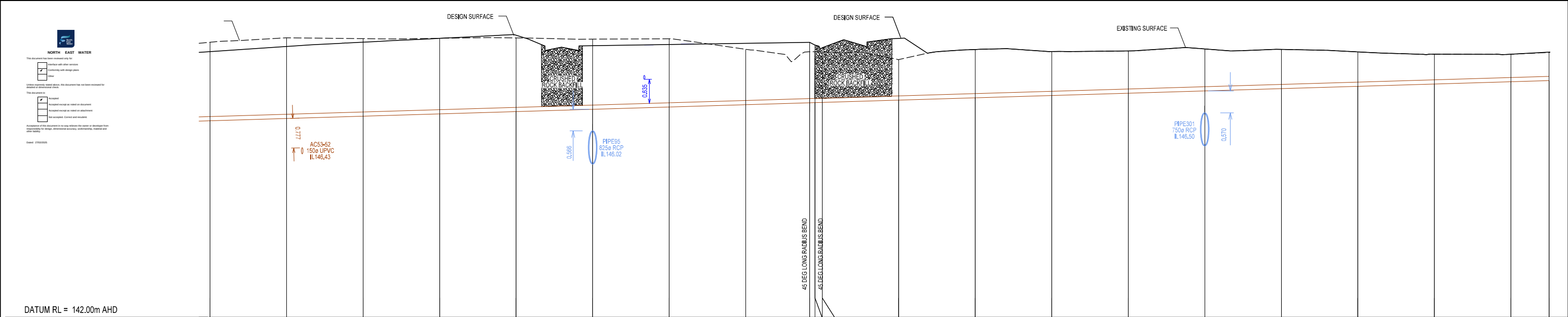
SEWER LONGITUDINAL SECTIONS

WARBY VIEWS ESTATE - STAGES 7, 8 & 9

CRUSE STREET WANGARATTA

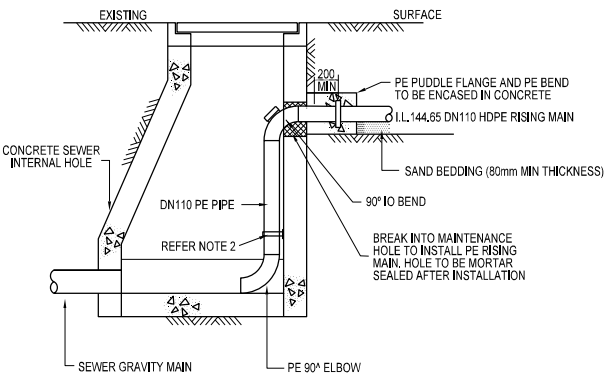
- GILFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL
REFERENCE VERSION
M8122 03 SHEET14OF 15



GRADE	GRADE 1 IN 300 (0.30%)																								GRADE 1 IN 300 (0.30%)																								GRADE 1 IN 300 (0.30%)																							
	DN110 @ 1 IN 300 (PE100 PN16)												DN110 @ 1 IN 300 (PE100 PN16)												DN110 @ 1 IN 300 (PE100 PN16)												DN110 @ 1 IN 300 (PE100 PN16)																																			
DEPTH TO INVERT	1.81		1.88		1.94		1.98		2.00		1.66		1.64		1.61		1.58	1.51	1.43			1.61		1.27		1.15		1.11		1.10		1.03		0.90		0.78		0.72		0.75																																
DESIGN INVERT LEVEL	147.13		147.19		147.25		147.31		147.37		147.43		147.49		147.55		147.60	147.61	147.61			147.67		147.73		147.79		147.85		147.91		147.97		148.03		148.09		148.15		148.18																																
EXISTING SURFACE	148.19		148.30		148.28		148.29		148.30		148.27		148.28		148.00		148.73	148.94	148.93				148.73		148.00		148.94		148.96		148.01		148.00		148.93		148.87		148.88		148.92																															
CHAINAGE	700.00		720.00		740.00		760.00		780.00		800.00		820.00		840.00		866.69	860.00				880.00		900.00		920.00		940.00		960.00		980.00		1000.00		1020.00		1040.00		1060.00																																

SEWER RISING MAIN LONGITUDINAL SECTIONS



- NOTE:
- PE PIPE TO BE A MINIMUM OF PN16 PE100
 - GRADE 316 SS PIPE CLIPS AND ANCHORS AS REQUIRED. IF DROP IS LESS THAN 1500mm, USE ONE CLAMP AT THE BOTTOM AND ADDITIONAL CLAMPS (S) TO EQUALLY SUPPORT THE DROP PIPE AT MAXIMUM 1500mm SPACING.

DETAIL - AC1

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NOTES:

PLANNING PERMIT NO: P19App19/231

REGISTERED
NER
Engineers Australia

SCALE
H1:500
V1:50

SHEET SIZE
A1

DATUM
LEVELS ARE IN METRES TO AHD

LENGTHS ARE IN METRES

NORTH EAST
SURVEY DESIGN

ABN 63 127 459 367
PO Box 882
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Mobile 0407 216 710
Fax 03 5721 6701
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SEWER LONGITUDINAL SECTIONS
WARBY VIEWS ESTATE - STAGES 7, 8 & 9
CRUSE STREET WANGARATTA
- GILFINITY PTY LTD

ISSUE STATUS
FOR APPROVAL

REFERENCE VERSION
M8122 03 SHEET15OF 15

