

OCALITY U Ž

Schedule 1: New Pipe

Pipe Size	Pipe Size Pipe Type	Length (m)	Pipe Class	Standard
DN150	UPVC-DWV	37.60m	SN8	WSA PS 230
chedule 2. Property Connections	operty Coni	nections		

Connection

Type

Type 1b

Type 2

Type 4a

Type 4b

Type S

1ype 4S

Be

Jump Up Flexible Couplings, ie: "F"

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Schedule 4: Maintenance Structures (other than Maintenance Holes) Inspection Shafts (IS), Maintenance Shafts (MS), and Maintenance Chambers (MC) ntenance Type Cover Depth to Invert Shaft Comments/References ucture ID (ISMS/MC) Class (mm) Connections (offsets/Details)

SCHEDULE OF SERVICES **TABLE 3 & 5**

PLANTATION ROAD	STREET NAME
3.30 S	GAS
2.10 S	WATER
1.65 S	TELSTRA
2.50 N	POWERCOR
N/A	SEWER

SURVEY INFORMATION		
DESCRIPTION	LEVEL	SOURCE
T.B.M. RIVET IN CONCRETE KERB - PLANTATION ROAD	R.L. 21.16	
T.B.M. SURVEY NAIL - LOT 2	R.L. 21.26	
MORANGHURK PM 30 (CNR PLANTATION ROAD & MATTHEWS ROAD) (S.M.E.S.)	R.L. 22.241	SMES
MORANGHURK PM 50 (180 MATTHEWS ROAD) (S.M.E.S.)	R.L. 21.600	SMES
MORANGHURK PM 130 (160 TOWER HILL DRIVE) (S.M.E.S.)	R.L. 22.659	SMES

General Notes

- Only contractors accredited by Barwon Water with level 1S & 1W shall be eligible to
- Only products approved and catalogued by the Water Agency shall be used. Barwon Water
- 28 29 30
- The contractor shall ensure they are conversant with all current revisions, amendments and

nformation

- Friday. In the event these works are to take place outside these hours a letter requesting approval of out of hours work is to be lodged by the Consulting Engineer to Barwon Water's The works shall be undertaken between the hours of 7.30 AM and 4:30 PM, Monday to
- o 5
- 8 7 Barwon Water is to be notified 7 clear days prior to the commencement of works by the Consulting Engineer
- The consultant is to notify all property owners prior to the commencement of works. Backfill to be in accordance with MRWA backfill specification 04-03.1 and local road
- 9

Victorian Workcover

- provided
- Occupational Health and Safety (Asbestos) Regulations 2003 and relevant codes of practice (Removal). The Environment Protection (prescribed waste) Regulation 1998 of waste asbestos cement (AC) pipes must be carried out in accordance with the Any work involving the removal (cutting and handling), storage, transportation and disposal (Storage, Transportation and Disposal) and Barwon Water's Safety, Quality, Environment
- No.187. Mechanical compaction is to be used in accordance with MRWA Specification Works to be carried out in accordance with current water restriction requirements by-law

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- with MRWA-W-300
- Long radius bends (sewer) are to be used for all changes of direction.

 DW assets shall only be constructed after deeper assets affecting the water mains have

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- This design is to be read in conjunction with road and drainage plans. The Contractor shall obtain a road opening permit for any been constructed (eg. sewerage & drainage assets)
- The design consultant is responsible for the design and coordination of the works. Any

- the Australian Height Datum (AHD) are provided in the design drawings
- All levels are in metres to AHD.
- 22 24 All co-ordinates are in metres to the Map Grid of Australia (MGA 55-94). The Contractor is directly responsible for ensuring the project
- conditions conflict in any way with that documented, the set out is consistent with the design. Should actual site Contractor shall contact the Superintendent for clarification
- experienced Surveyor to undertake asset recording of the The Contractor is to engage a suitably qualified and

Schedule 5: Maintenance Holes

(GRP/PP (Plastic) Concrete)

(Conical/Flat)

Class

Diameter (mm) nterna

Min. Wall Thickness (mm)

Depth to Invert

Drops

Ladder (L) Step Irons (S) Landing (Ld)

(Coating/PE or PVC

Shatt Re-inforcement

(Offsets / Details)

(mm)

FIRST SUBMISSION

DESCRIPTION

SUBMIT TO BARWON WATER FOR ACCEPTANCE

23.01.2020

REV

DESCRIPTION

APPROVED

CHECKED

AUTHORISED

S PHIPPS
DATE: 23.01.2020

HIPPS

DATE: S.PHIPPS ATE: 23.01.2020 P.PHIPPS ATE: 23.01.2020 P.PHIPPS ATE: 23.01.2020

DRAWN DESIGNED

MELWAY REFERENCE PROJECT NUMBER

271plantation 431, H5

PHIPPS CONSULTING
35 Watson Avenue
(PO Box 166)
Belmont, VIC, 3216
Phone: (03) 52419022

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- adopts the approved catalogue developed by City West Water, with some limitations and exceptions defined in the Barwon Water Supplementary Product Catalogue.

 Works must be to constructed according to WSAA Sewerage code of Australia WSA 02-2014-3.1, WSA 03-2011-3.1 MRWA edition and Barwon Water's Supplementary
- updates that Barwon Water have made to their standards
- Senior Quality Auditor 48 hours prior to the planned works.
- All existing services are to be located prior to any excavation.
- requirements in the road reserve.
- Copies of cadastral map grid (mga) connection and Australian Height Datum (AHD) are to be submitted to Barwon Water with "As Constructed Information".

 Contact prior to the commencement of works:-
- City of Greater Geelong

Vicroads - where appropriate elecommunications providers

- The contractor shall comply with safety requirements relating to working near power lines as set by the Chief Electrical Inspector. Where necessary an accredited trained spotter is to be
- 04-03 Version 1 for trench works until further notice.
- Marker posts to be placed at fire plugs. Fireplug signage shall be installed in accordance PE pipe to be constructed in accordance with MRWA-W-107, 108 & 109.

- requirements of the road owner works within the road reserve and comply with all

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- 20 problem arising during construction shall be directed to the consultant.
 vey, Set Out and Asset Recording
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- Temporary Bench Marks (TBM) for the set out of works to

- work. All surveyor works and data recording shall be undertaken in accordance with Barwon Water's "Survey Manual for Land Development".

- 26 the As Constructed Information.
- Mechanical compaction is required for all trench works. Trench compaction reults are to be forwarded to Barwon Water by the consulting engineer with the "As Constructed" package. 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).
- 8 3 Coordinates are to sewer line intersection point unless otherwise shown Before commencement of work, the contractor must complete a level check between all

- 33 34 35
- 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

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Em 6

Backfill as per Barwon Water's specifications and MRWA Backfill Specification 04-03.1 section 3 "Traffic Areas" (je 20mm FCR Class 2 plant mixed wet mix crushed rock to full

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depth and in accordance with local road authority requirements in road reserve.

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43 Refer to Long Section drawings for backfill requirements.

- Test results shall be provided to the superintendent prior to practical completion /
- MRWA Backfill Specification 04-03 Version 1.

- 46. contractor
- sewer or maintenance hole as part of the developer works process must space regulation Working in Confined Spaces. Persons requiring access to any Barwon Water regulations 1996, Statutory Rule No 148/1996 and AS 2865-1995 Safe contact the senior quallity auditor for entry requirements being "Occupational Health & Safety Spaces)
- any connections being made to these sewers. All existing sewers must be plugged to stop gas emissions prior to
- To enable connections to live assets or any work on live assets, superintendent at least 3 working days prior to any works on live the contractor shall submit the appropriate forms to the
- The contractor is not permitted to break into an existing live pipeline, enter a live sewer or remove the cover to a live maintenance structure unless authorised by Barwon Water

superintendent and Barwon Water prior to the testing being The contractor is to give a minimum of three (3) days notice to the superintendent. undertaken. Testing is to be undertaken in the presence of

All specific pipe materials (eg: PVC-O) shall be indicated in

- Chainages shown on detail plans are discontinuous at maintenance structures.
- Chainages shown on long section sheets are continuous
- 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

SEWER NOTES

- Number of lots to be sewered: 2 new property connections.
 All property connections to be DN100 unless ofherwise indicated.
 Properties requiring boundary traps are indicated in the detailed plans. The remainder do
- 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

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approval has been given by the Barwon Water commence until earthworks has been completed unless written In areas subject to earthworks, construction of sewers shall not

- Embedment shall be Type A (refer MRWA-S-202) unless otherwise specified on the long section.
- Non trafficable backfill shall be completed as per MRWA-W-201 and Version 1 of the MRWA Backfill Specification.

44.

- acceptance of works.
- 45 The contractor is required to undertake all testing of fill compaction in accordance with Barwon Water Agency adopted version of the

Work

- All works on live sewers must be carried out by a Barwon Water accredited
- Warning: Entry into any sewer or maintenenace hole is controlled by confined
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- Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health and Safety Act 2004 and Occupational Health and Safety regulations 2007, have been and will be complied with.

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- 54 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 according to the protected for the protection of the protectio
- 55 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 indicated for removal.
- All areas containing creek vegetation, trees and revegetated areas mear the construction zone are to be fenced off during the works with secure and highly visible material such as para-webbing
- Ensure all machinery, equipment and/or footwear entering the site is weed and pathogen free.

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Speci 57. E) Existing house connection branch to be subject to CCTV

- brancch is found to be unsatisfactory it is to be replaced. Connection of existing house to be in accordance with VBA inspection with report to be submitted to Barwon Water. If
- Abandoned length of existing house drain to be filled with Quality Auditor requirements and after approval by Barwon Water's Senior
- cement slurry and capped at ends.

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WATER NOTES

60 Water tappings to be clear of driveways and a minimum of 700mm horizontal clearance is to be maintained from other services.

61. All property service connections to new residential RRJ Water's Standard Dwg 70112. reticulation mains are to be completed in accordance with Barwon

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- 62 Other services shall be carefully located prior to full in the location of other services. construction, "Dial before you Dig" shall be undertaken to aid To receive the most up to date information prior to Table 3 & 7)
- 63. Clearances to other services shall be as per Table 7 and shall apply to surface covers as well as underground assets. Section 5.4.1 of Barwon Water's Supplement. These clearances

be reported to the Superintendent immediately for Any clashes of proposed new works with other assets shall

excavation at the contractor's cost.

Testing, Asset Acceptance and Live

64. NA

65 Install 32mm tapping under pressure with manifold to accommodate 3No. x 20mm meters. Contractor to extend 25mm PE service from meter to each new allotment.

ACCEPTED BY BARWON WATER.....

WORKS SHALL NOT COMMENCE UNTIL PLANS SIGNED AND ACCEPTED BY BARWON WATER

SIGNED: DESIGN COORDINATOR - ENTERPRISE PROJECT DELIVERY

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@A3

REV \triangleright

PLAN & SHEET 3 FOR LONG SECTION ATER NOTES CORIO SCALE: RAWING No. N/A

PHIPPS CONSULTING
URBAN DESIGN &
DEVELOPMENT &
LAND SUBDIVISION
CIVIL ENGINEERING
PROPERTY DEVELOPMENT
PROJECT MANAGEMENT SEWER & W/ 271 PLANTATI \Box ARWON

L015557



