LOCALITY PLAN
NOT TO SCALE

DRAWINGS INDEX - STAGE 5	
DRAWING No.	DRAWING TITLE
A1-59283	LOCALITY PLAN & FACE SHEET
A1-59284	SEWER RETICULATION - LAYOUT PLAN
A1-59285	SEWER RETICULATION - LONGITUDINAL SECTIONS
A1-59286	WATER RETICULATION - LAYOUT PLAN & DETAILS

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TYPICAL SEWER PROJECT NOTES
(ADAPT FOR INDIVIDUAL PROJECTS)

SEWER NOTES:

GENERAL
1. ALL LEVELS ARE IN METRES TO AUSTRALIAN HEIGHT DATUM (A.H.D.).
2. CONTOUR INTERVAL IS 0.2m. CONTOURS SHOWN REPRESENT FINISHED SURFACE.
3. NUMBER OF LOTS SERVICED IS 24.
4. LENGTH OF SEWER TO BE CONSTRUCTED IS:
   - 150mm - 252.9m
   - 225mm - 79.1m
5. WORKS MUST BE CONSTRUCTED ACCORDING TO THE WATER SERVICES OF AUSTRALIA MANUAL WSA 02-2014-3.1 (MRWA) SPECIFICATIONS, STANDARD DRAWINGS AND THE RELEVANT GIPPSLAND WATER SUPPLEMENT.

PIPELINE CONSTRUCTION
6. SEWER TO BE CONSTRUCTED USING THE FOLLOWING PIPES AS INDICATED ON THE DRAWINGS:
   - DN225 & DN150 PVC-U CLASS SN8 PIPES TO AS.1260
7. REFER TO MRWA STANDARD DRAWINGS.
8. PROVIDE PIPE SUPPORT FOR PIPE GRADE 1 IN 5 OR STEEPER. REFER TO STD DWG MRWA-S-205 & MRWA-S-206.
9. ALL SEWERS MUST BE RUBBER RING JOINTED WITH EITHER CHLOROPRENE RUBBER OR STYRENE BUTADIENE RUBBER (SBR) RINGS. ALL RUBBER TYPE RINGS MUST CONTAIN AN APPROVED ROOT INHIBITOR.
10. PIPE EMBEDMENT TO BE 'TYPE A' UNLESS NOTED OTHERWISE. REFER STD DWG MRWA-S-202
11. 'TYPE O' BACKFILL (NO VEHICULAR LOADING) TO BE USED UNLESS NOTED OTHERWISE.

PROPERTY CONNECTION SEWERS
12. REFER GIPPSLAND WATER SUPPLEMENT FOR GW TYPE 2A & 4A PROPERTY CONNECTION ARRANGEMENTS.
13. ALL PROPERTY CONNECTION PIPES AND FITTINGS TO BE ø100 (UNLESS NOTED OTHERWISE) UPVC CLASS SN6 TO AS.1260.
14. THE PROPERTY CONNECTION TIES SHOWN ON THE DETAIL PLANS ARE FROM AN ADJACENT TITLE CORNER.
15. ALL PROPERTY CONNECTIONS ARE TO BE MARKED BY BLUE TRACER TAPE BROUGHT TO THE SURFACE AND TIED TO A MARKER STAKE.

MAINTENANCE HOLES AND SHAFTS
16. REFER TO MRWA STANDARD DRAWINGS.
17. ALL MAINTENANCE HOLES SHALL BE CAST-IN-SITU ø1050 (NOMINAL) UNLESS NOTED OTHERWISE.
18. CRANKED STAINLESS STEEL OR PLASTIC ENCAPSULATED STEP IRONS MUST BE USED. GALVANISED STEP IRONS MUST NOT BE USED.
19. ALL MAINTENANCE STRUCTURE COVERS SHALL BE CIRCULAR AND AS PER TABLE 313-B OF MRWA -S-313.
20. MAINTENANCE HOLE AND SHAFT COVERS SHALL BE LEVEL WITH & SHALL CONFORM TO SLOPE & CROSSFALL OF THE FINISHED SURFACE. THE FINISHED SURFACE LEVELS SHOWN ARE APPROXIMATE ONLY & SHALL NOT BE USED FOR THE FIXING OF ANY MAINTENANCE HOLE AND SHAFT COVER LEVELS. MAINTENANCE HOLE AND SHAFT IN ROAD RESERVES & R.O.W.'S CONSTRUCTED PRIOR TO THE CONSTRUCTION OF FOOTPATHS & ROADS SHALL BE PROVIDED WITH A TEMPORARY COVER. THE PLACING OF THE FINAL COVER SHALL NOT BE CARRIED OUT UNTIL THE CONCRETE FOOTPATH OR ROAD PAVEMENT HAS BEEN CONSTRUCTED.
21. CONCRETE SHALL BE S32 (32MPA, MAX AGGREGATE SIZE 20mm, MAX SLUMP 100mm, PORTLAND CEMENT - Type D) UNLESS OTHERWISE SPECIFIED.

EARTHWORKS & RETAINING WALLS
22. IN AREAS SUBJECT TO EARTHWORKS, THE CONSTRUCTION OF SEWERS MUST NOT COMMENCE UNTIL THE EARTHWORKS HAVE BEEN COMPLETED.

OUTLET
23. THESE BRANCHES DRAIN DIRECTLY TO EXISTING SEWERS.

SERVICE CONNECTIONS
24. ALL NEW SERVICE CONNECTIONS MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF GIPPSLAND WATER.

WORK ON LIVE SEWERS
25. THE CONTRACTOR MUST NOT BREAK-IN TO AN EXISTING LIVE PIPELINE, ENTER A LIVE MAINTENANCE HOLE CHAMBER OR REMOVE THE COVER TO A LIVE MAINTENANCE HOLE, UNLESS APPROVED BY GIPPSLAND WATER.
26. ALL WORKS ON LIVE SEWER IS TO BE CARRIED OUT BY AN AUTHORITY APPROVED CONTRACTOR. THE CONTRACTOR IS TO NOTIFY THE DESIGN CONSULTANT AND PROVIDE A FORM 3 TO GIPPSLAND WATER AT LEAST (5) WORKING DAYS PRIOR TO COMMENCING WORKS ON LIVE SEWERS.

ATTENTION TO CONTRACTOR
27. BEFORE COMMENCEMENT OF WORKS ON TRENCHES IN EXCESS OF 1.5M DEEP, THE CIVIL CONTRACTORS CONSTRUCTION SUPERVISOR MUST GIVE NOTICE IN WRITING OF SUCH PROPOSALS TO WORKSAFE VICTORIA IN ACCORDANCE WITH PART 5.1, DIVISION 4 OF THE OCCUPATIONAL HEALTH & SAFETY REGULATIONS (2007) AND UNDERTAKE SAFETY PRECAUTIONS IN TRENCHING OPERATIONS IN ACCORDANCE WITH WORKCOVER'S CODE OF PRACTICE (1988).
28. IN ACCORDANCE WITH CLAUSE 15 OF AS2124-1986, THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT TO THE SITE. THE CONTRACTOR MUST COMPLY WITH THE VICTORIAN OCCUPATIONAL HEALTH & SAFETY ACT.
29. THE CONTRACTOR MUST ENSURE THAT ALL PEOPLE EMPLOYED ON THE SITE WEAR APPROVED SAFETY APPAREL. THIS INCLUDES SAFETY HELMETS, VESTS, SAFETY BOOTS, EAR & EYE PROTECTION, WHERE APPROPRIATE.
30. THE CONTRACTOR SHALL REINSTATE ANY DAMAGED FOOTPATH, VEHICLE CROSSINGS & NATURE STRIP TO THE REQUIREMENTS OF THE RELEVANT COUNCIL.
31. CHAINAGES SHOWN ON DETAIL PLAN ARE DISCONTINUOUS. CHAINAGE SHOWN ON LONGITUDINAL SECTIONS ARE CONTINUOUS.
32. THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THE SETOUT. SHOULD ACTUAL SITE CONDITIONS CONFLICT IN ANY WAY WITH THAT DOCUMENTED, THE CONTRACTOR MUST CONTACT THE DESIGN CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.

ENVIRONMENTAL
33. THE CONTRACTOR IS RESPONSIBLE FOR ENVIRONMENTAL MANAGEMENT OF THE SITE.
34. ALL TREES MUST BE PRESERVED & PROTECTED AT ALL TIMES UNLESS OTHERWISE NOTED ON THE DESIGN PLANS.

TESTING
35. TESTING OF SEWERS TO BE IN ACCORDANCE WITH GIPPSLAND WATER REQUIREMENTS. A MINIMUM OF 48 HOURS NOTICE OF THE PROPOSED TESTING IS REQUIRED TO BE GIVEN TO THE DESIGN CONSULTANT TO ARRANGE THE TESTING.

ASSET RECORDING
36. CONTRACTOR SHALL NOTE DETAILS OF PROPERTY CONNECTIONS AND SUPPLY TO THE DESIGN CONSULTANT UPON REQUEST.

ROAD OPENING PERMIT
37. THE CONTRACTOR SHALL OBTAIN A ROAD OPENING PERMIT FOR ANY WORKS WITHIN EXISTING ROAD RESERVES AND COMPLY WITH ALL REQUIREMENTS.

CONNECTION NOTE
38. WATER AUTHORITY APPROVED CONTRACTOR MUST :
   - PROVIDE NO LESS THAN 5 WORKING DAYS NOTICE TO GIPPSLAND WATER & THE DESIGN CONSULTANT PRIOR TO CONNECTION TO EXISTING LIVE SEWER.
   - CONNECT PROPOSED SEWER MAINTENANCE HOLES, INSPECTION SHAFTS AND PROPERTY BRANCHES AS SHOWN.
   - CONNECT NEW SEWER TO EXISTING SEWERS.
39. TWO (2) CLEAR WORKING DAYS NOTICE MUST BE GIVEN TO THE DESIGN CONSULTANT PRIOR TO COMMENCEMENT OF WORKS.
40. ALL WORK IS TO BE DONE AT OWNER'S COST.

TYPICAL WATER PROJECT NOTES
(ADAPT FOR INDIVIDUAL PROJECTS)

WATER NOTES:

GENERAL
1. WORKS MUST BE CONSTRUCTED TO WSA 03-2011 (MRWA) AND THE RELEVANT GIPPSLAND WATER SUPPLEMENT.
2. NUMBER OF LOTS SERVICED IS 24.
3. LENGTH OF WATERMAIN TO CONSTRUCTED IS:
   - 63mm - 15.9m
   - 100mm - 153.8m
4. MARKER POSTS AND BLUE PAVEMENT REFLECTORS ARE TO BE INSTALLED AS PER GIPPSLAND WATER REQUIREMENTS.

PIPELINE CONSTRUCTION
5. REFER TO STANDARD DRAWINGS AS PER WSA 03-2011 (MRWA) AND THE RELEVANT GIPPSLAND WATER SUPPLEMENT.
6. DETECTABLE TAPE IS TO BE INSTALLED IN ALL PIPE TRENCHES AND PLACE BETWEEN 150mm AND 300mm BELOW FINISHED SURFACE.
7. MAINTAIN THE INSIDE OF ALL PIPES CLEAN AND DRY DURING CONSTRUCTION IN ACCORDANCE WITH WSA 03-2011 (MRWA), SECTION 15.1.1 & 15.1.3
8. MAINS TO BE CONSTRUCTED UNDER DEED CONDITIONS IN ACCORDANCE WITH WSA CONSTRUCTION SPECIFICATIONS, GIPPSLAND WATER SUPPLEMENT AND OTHER REQUIREMENTS OF GIPPSLAND WATER AT OFFSETS SHOWN.
9. WHERE GRADE OF PIPE EXCEED 1 IN 20 TRENCH STOPS ARE REQUIRED. REFER TO MRWA-W-209.

PROPERTY SERVICE CONNECTIONS
10. ALL NEW SERVICE CONNECTIONS MUST BE IN ACCORDANCE WITH WSA 03-2011 (MRWA) STANDARD DRAWING MRWA-W-110 AND GIPPSLAND WATER STANDARD DRAWING A3-59295.
11. PROPERTY SERVICE CONNECTIONS ARE TO BE CONSTRUCTED WITH APPROVED POLYETHYLENE PIPE TO WSAA PE CODE OF PRACTICE.
12. REFER WSA 03-2011 (MRWA) STANDARD DRAWING MRWA-W-110 FOR TAPPING ARRANGEMENTS.
13. THE PROPERTY SERVICE CONNECTION TIES SHOWN ON THE DETAIL PLAN ARE FROM THE APPROPRIATE TITLE PEG. ALL PROPERTY SERVICE CONNECTIONS ARE TO BE MARKED ON THE KERB WITH A 'W' IN LINE WITH THE SERVICE CONNECTION. THE "W" SHALL BE PERMANENTLY MARKED ON THE KERB.

WATERMAIN FITTINGS AND COVERS
14. REFER TO STANDARD DRAWINGS AS PER WSA 03-2011 (MRWA) AND THE GIPPSLAND WATER SUPPLEMENT.
15. ALL COVERS ARE TO BE CLASS B IN NON TRAFFICABLE AREAS AND CLASS D IN TRAFFICABLE AREAS.
16. COVERS SHALL BE LEVEL WITH AND SHALL CONFORM TO SLOPE AND CROSSFALL OF THE FINISHED SURFACE. THE FINISHED SURFACE LEVELS SHOWN ARE APPROXIMATE ONLY AND SHALL NOT BE USED FOR THE FIXING OF ANY COVER LEVELS. COVERS IN ROAD RESERVE AND R.O.W.'s CONSTRUCTED PRIOR TO THE CONSTRUCTION OF FOOTPATHS AND ROADS SHALL BE PROVIDED WITH A TEMPORARY COVER. THE PLACING OF THE FINAL COVER SHALL NOT BE CARRIED OUT UNTIL THE CONCRETE FOOTPATH OR ROAD PAVEMENT HAS BEEN CONSTRUCTED.
17. CONCRETE SHALL BE WSA N25 UNLESS OTHERWISE SPECIFIED.
18. THRUST RESTRAINTS TO BE INSTALLED IN ACCORDANCE WITH THE THRUST RESTRAINT SCHEDULE AND STANDARD DRAWINGS MRWA-W-204 TO MRWA-W-206 (CONCRETE & RECYCLED PLASTIC ONLY AS SCHEDULED).

EARTHWORKS & RETAINING WALLS
19. IN AREAS SUBJECT TO EARTHWORKS, THE CONSTRUCTION OF WATERMAINS MUST NOT COMMENCE UNTIL THE EARTHWORKS HAVE BEEN COMPLETED .

WORK ON LIVE WATER MAIN
20. THE CONTRACTOR IS NOT PERMITTED TO CUT-IN TO AN EXISTING LIVE PIPELINE, UNLESS APPROVED BY GIPPSLAND WATER.
21. ALL WORKS ON A LIVE MAIN MUST BE CARRIED OUT BY A GIPPSLAND WATER APPROVED CONTRACTOR. THE CONTRACTOR IS TO PROVIDE GIPPSLAND WATER WITH 10 DAYS NOTICE ALONG WITH SUBMITTING A FORM 3W BEFORE COMMENCING WORK ON LIVE WATER MAINS (SHUTDOWN ONLY)

ATTENTION TO CONTRACTOR
22. IN ACCORDANCE WITH CLAUSE 15 OF AS2124 AUSTRALIAN STANDARD CONDITIONS OF CONTRACT, THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT TO THE SITE. THE CONTRACTOR MUST COMPLY WITH THE VICTORIAN OCCUPATIONAL HEALTH AND SAFETY ACT.
23. THE CONTRACTOR MUST ENSURE THAT ALL PEOPLE EMPLOYED ON THE SITE WEAR APPROVED SAFETY APPAREL. THIS INCLUDES SAFETY HELMETS, VESTS, SAFETY BOOTS, EYE & EAR PROTECTION, WHERE APPROPRIATE.
24. THE CONTRACTOR SHALL REINSTATE ANY DAMAGED FOOTPATH, VEHICLE CROSSING AND NATURE STRIP TO THE REQUIREMENTS OF THE RELEVANT COUNCIL.
25. THE DESIGN CONSULTANT IS RESPONSIBLE FOR DESIGN OF THE WORKS. ANY ALTERATIONS TO THE DESIGN SHALL BE DIRECTED TO THE DESIGN CONSULTANT FOR REVIEW & APPROVAL PRIOR TO THOSE ALTERATIONS BEING CONSTRUCTED.
26. THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THE SETOUT. SHOULD ACTUAL SITE CONDITIONS CONFLICT IN ANY WAY WITH THAT DOCUMENTED, THE CONTRACTOR MUST CONTACT THE DESIGN CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
27. CONTRACTOR SHALL NOTE DETAILS OF PROPERTY CONNECTIONS AND ANY CHANGES AND SUPPLY TO DESIGN CONSULTANT UPON REQUEST.

ENVIRONMENTAL
28. THE CONTRACTOR IS RESPONSIBLE FOR ENVIRONMENTAL MANAGEMENT OF THE SITE.
29. ALL TREES MUST BE PRESERVED & PROTECTED AT ALL TIMES UNLESS OTHERWISE NOTED ON THE DESIGN PLANS

TESTING
30. PRESSURE AND BACTERIOLOGICAL TESTING OF WATER MAINS MUST BE IN ACCORDANCE WITH PART 2 OF WSA 03-2011 (MRWA), AND THE GIPPSLAND WATER DISINFECTION POLICY, AND ONLY UNDER DIRECT SUPERVISION OF GIPPSLAND WATER. A MINIMUM OF 48 HOURS NOTICE OF THE PROPOSED TESTING MUST BE GIVEN PRIOR TO TESTING.
31. ALL PIPELINES REQUIRING DISINFECTION SHALL BE DISINFECTED BY A GIPPSLAND WATER APPROVED CONTRACTOR
32. DISINFECTION AND PRESSURE TESTING DOCUMENTATION TO BE PROVIDED TO THE DESIGN CONSULTANT IMMEDIATELY ON COMPLETION OF WORKS.

ROAD OPENING PERMIT
33. THE CONTRACTOR SHALL OBTAIN A ROAD OPENING PERMIT FOR ANY WORKS WITHIN THE ROAD RESERVE AND COMPLY WITH ALL REQUIREMENTS.

CONNECTION NOTE
34. 10 DAYS NOTICE MUST BE GIVEN TO GIPPSLAND WATER BEFORE MAKING A SHUTDOWN CONNECTION TO EXISTING WATERMAINS BY SUBMITTING A FORM 3W.
35. 5 DAYS NOTICE MUST BE GIVEN TO GIPPSLAND WATER BEFORE MAKING A TAPPING UNDER PRESSURE TO EXISTING WATERMAINS BY SUBMITTING A FORM 3.
36. ALL WORKS ARE TO BE DONE AT OWNERS COST.

REVISIONS

No.	DATE	DESCRIPTION	APP'D
A	7/8/15	ISSUED AS TYPICAL DRAWING	JMB
B	19/12/19	UPDATED TO REFLECT CODE & ADDENDUM CHANGES	LN

REFERENCES

PLAN No.	TITLE

DESIGNED BY:

DO NOT SCALE

CERTIFICATION OF COMPLIANCE WITH GIPPSLAND WATER'S DESIGN & DRAFTING REQUIREMENTS.

DESIGNED: DATE NAME
DRAWN: DATE NAME
CHECKED: DATE NAME

GIPPSLAND WATER DRAWING STATUS: TYPICAL DRAWING ONLY

GIPPSLAND WATER FACILITY CODE: -

GIPPSLAND WATER

DRAWING No. A1-59283 REV. B

TYPICAL DRAWING
WATER & SEWERAGE RETICULATION EXTENSIONS
CAMBRIDGE WAY, SWINBURNE CRESCENT & PRINCETON WAY
LOCALITY PLAN & FACE SHEET