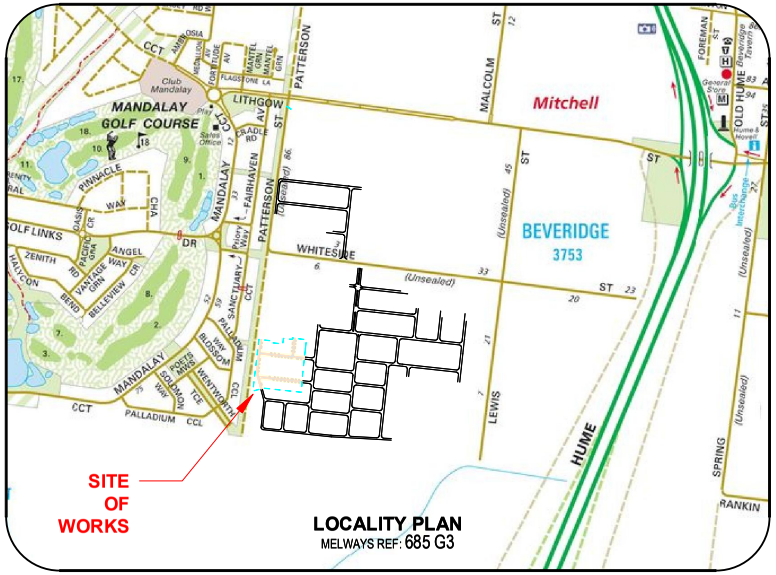
OORANYA ESTATE, STAGE 8

ROAD & DRAINAGE CONSTRUCTION PLAN

WHITESIDE STREET - BEVERIDGE



LOCALITY PLAN
MELWAYS REF: 685 G3

LEGEND

- EXISTING SHRUBS / TREES
- PROPOSED STREET TREE
- SHRUBS / TREES TO BE REMOVED
- SIGN
- TELCO PILLAR
- TELCO PITS
- ELECTRICITY LIGHT & POLE
- PROPOSED KERB & CHANNEL
- EXISTING KERB & CHANNEL
- PROPOSED DRAIN / PIT / I.S.
- EXISTING DRAIN / PIT
- PROPOSED HOUSE DRAIN / EASEMENT CONNECTION
- FUTURE DRAIN / PIT
- FENCE LINE
- INVERT (DESIGN \ EXISTING)
- EDGE OF SEAL / EDGE OF BITUMEN (DESIGN \ EXISTING)
- TOP OF BANK (DESIGN \ EXISTING)
- BOTTOM OF BANK
- PROPOSED TITLE BOUNDARY & SITE TITLE BOUNDARY
- PROPOSED FUTURE TITLE BOUNDARY
- PREVIOUS STAGE TITLE BOUNDARY
- PROPOSED OR EXISTING EASEMENT
- HOUSE
- ET PROPOSED ELEC / TELSTRA CONDUIT & PIT
- GW PROPOSED GAS & WATER CONDUIT
- PROPOSED SEWER AND MANHOLE
- SRM PROPOSED SEWER RISING MAIN
- PS PROPOSED PRIVATE SEWER
- EXISTING SEWER & MANHOLE
- FS PROPOSED FUTURE SEWER
- W PROPOSED WATER MAIN
- PW PROPOSED PRIVATE WATER MAIN
- RW PROPOSED RECYCLED WATER MAIN
- EXISTING WATER MAIN, FIRE PLUG AND VALVE
- FW PROPOSED FUTURE WATER
- E PROPOSED ELECTRICITY MAIN
- PE PROPOSED PRIVATE ELECTRICITY MAIN
- EXISTING ELECTRICITY MAIN & PIT
- FE PROPOSED FUTURE ELECTRICITY
- G PROPOSED GAS MAIN
- PG PROPOSED PRIVATE GAS MAIN
- EXISTING GAS MAIN
- FG PROPOSED FUTURE GAS
- T PROPOSED TELECO MAIN
- PT PROPOSED PRIVATE TELECO MAIN
- EXISTING TELECO CABLE
- FT PROPOSED FUTURE TELECO
- CATCH PROPOSED CATCH DRAIN
- D AG PROPOSED AG DRAIN
- PROPOSED SEALED PAVEMENT
- PROPOSED CRUSHED ROCK
- PROPOSED CONCRETE FOOTPATH
- PROPOSED RAISED INTERSECTION
- PROPOSED CONCRETE PAVEMENT (DRIVEWAY OR INFILL)
- PROPOSED ALTERNATE PAVEMENT
- PROPOSED KERB
- PROPOSED NATURESTRIP \ LANDSCAPING
- PROPOSED LOT EARTHWORKS NO TOPSOIL
- PROPOSED EDGE STRIP
- PROPOSED OTHER
- PROPOSED ROCK BEACHING
- PROPOSED STAGE BOUNDARY
- OVERLAND 1% AEP STORMWATER FLOWPATH
- UNDERGROUND DRAINAGE CATCHMENT BOUNDARY
- 10.00 DIMENSION (IN METRES UNLESS STATED OTHERWISE)
- LEADER / ARROW
- ES 101.95 EXISTING SURFACE LEVEL
- FS 101.95 FINISHED SURFACE LEVEL
- TB 101.95 TOP OF BATTER LEVEL
- P 101.95 PROP PAVEMENT FOOTPATH LEVEL
- DIRECTION OF LOT GRADING
- FALL FALL DIRECTION OF BASIN GRADING
- PROPOSED FLAT TOP SPEED HUMP
- PERMANENT SURVEY MARK
- SURVEY STATION

DRAWING LIST

ROAD & DRAINAGE CONSTRUCTION PLANS

S148808R01	LOCALITY PLAN & GENERAL NOTES
S148808R02	OVERALL DEVELOPMENT PLAN
S148808R03	EXISTING CONDITIONS & SURVEY STATION/TBMS
S148808R04	CONSTRUCTION LAYOUT PLAN
S148808R05	CUT & FILL DEPTH RANGES & LOT LEVELS
S148808R06	SIGNAGE & LINEMARKING PLAN
S148808R07	PAVEMENT DETAILS
S148808R08-R09	INTERSECTION DETAILS (2 SHEETS)
S148808R10-R11	TYPICAL DETAILS (2 SHEETS)
S148808R12	LEADBEATER CCT (RS16) LONG SECTION
S148808R13-R14	LEADBEATER CCT (RS16) CROSS SECTIONS (2 SHEETS)
S148808R15	HOPBUSH ST (RS17) LONG SECTION
S148808R16-R17	HOPBUSH ST (RS17) CROSS SECTIONS (2 SHEETS)
S148808R18	BLACKWOOD PL (RS18) LONG SECTION
S148808R19-20	BLACKWOOD PL (RS18) CROSS SECTIONS (2 SHEETS)
S148808R21	MIMOSA DR (RS30) LONG SECTION
S148808R22	MIMOSA DR (RS30) CROSS SECTIONS
S148808R23-R26	DRAINAGE LONG SECTIONS (4 SHEETS)
S148808R27	PIT SCHEDULE
S148808R28	CATCHMENTS & 1% AEP FLOW PATHS
S148808R29	20% AEP DRAINAGE HYDRAULIC DATA
S148808R30	5% AEP DRAINAGE HYDRAULIC DATA
S148808R31	1% AEP DRAINAGE HYDRAULIC DATA
S148808R32	20% AEP DRAINAGE HYDROLOGIC DATA
S148808R33	5% AEP DRAINAGE HYDROLOGIC DATA
S148808R34	1% AEP DRAINAGE HYDROLOGIC DATA

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REFER TO ELECTRICAL AND TELSTRA PLANS FOR SERVICE AND CONDUIT DETAILS

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

TABLE OF OFFSETS FOR SERVICES

STREET	GAS		WATER			ELEC		TELCO	
			OFFSET			U/G CABLE			
	OFFSET	SIDE	DW	NDW	SIDE	OFFSET	SIDE	OFFSET	SIDE
LEADBEATER CCT (RS16)	2.1m	EAST	3.0m	2.55m	EAST	1.2m	WEST	1.75m	EAST
HOPBUSH ST (RS17)	2.1m	SOUTH	3.0m	2.55m	SOUTH	2.4m	NORTH	1.9m	NORTH
BLACKWOOD PL (RS18)	2.1m	NORTH	3.0m	2.55m	NORTH	2.4m	SOUTH	1.9m	SOUTH
MIMOSA DR (RS30)	2.1m	WEST	3.0m	2.55m	WEST	2.4m	EAST	1.9m	EAST

GENERAL NOTES

PRIOR TO THE COMMENCEMENT OF WORKS

1. THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE RELEVANT WORKS.
2. THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FROM THE MUNICIPALITY & VICROADS FOR ANY WORKS UNDERTAKEN WITHIN AN EXISTING ROAD RESERVE PRIOR TO THE COMMENCEMENT OF WORKS.
3. THE CONSULTANT HAS MADE EVERY REASONABLE ATTEMPT TO LOCATE EXISTING SERVICES AND HAS SHOWN THESE ON THE DRAWINGS. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS AND PROVIDE A WRITTEN REPORT DETAILING THE CONDITION REGARDING ALL EXISTING INFRASTRUCTURE WHICH THEY ARE INTERFACING WITH, OR OTHERWISE HAVING AN IMPACT ON.
4. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SERVICES BY SITE SURVEY (INSPECTION AND CONSULTATION WITH ALL RELEVANT SERVICING AUTHORITIES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SERVICES, WHETHER SHOWN OR NOT.
5. THE CONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG (CALL 1100), OR VISIT THE DIAL BEFORE YOU DIG WEBSITE PRIOR TO COMMENCING WORKS AND SATISFY THEMSELVES THAT THERE ARE NO SERVICES WITHIN THE VICINITY OF THE WORK AREA.
6. NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND SERVICES ARE PRESENT.
7. CONTRACTOR MUST FOLLOW THE "NO GO ZONE" SAFETY PROCEDURES AT ALL TIMES, WHICH ARE AVAILABLE FROM ALL UTILITY AND TELECOMMUNICATIONS COMPANIES, INCLUDING THE OFFICE OF THE CHIEF ELECTRICAL INSPECTOR, THE OFFICE OF GAS SAFETY AND WORKSAFE VICTORIA.
8. IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN WITHOUT PERMISSION FROM THE UTILITY COMPANY.
9. THE CONTRACTOR MUST PREPARE A PROJECT MANAGEMENT PLAN (OTHERWISE CALLED A CONSTRUCTION OR SITE MANAGEMENT PLAN) AND HAVE IT APPROVED BY **BOTH** COUNCIL & THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORKS. THIS PROJECT MANAGEMENT PLAN IS TO INCORPORATE THE FOLLOWING AT A MINIMUM AND IN ACCORDANCE WITH ANY LEGISLATION REQUIREMENTS:
   a. OCCUPATIONAL HEALTH & SAFETY PROCEDURES
   b. SITE STAFFING INCLUDING CONTACT DETAILS
   c. TRAFFIC MANAGEMENT PLAN
   d. ENVIRONMENTAL MANAGEMENT PLAN
   e. QUALITY ASSURANCE DETAILS (FOR QA CERTIFIED CONTRACTORS)
   f. CONSTRUCTION PROGRAM

CONSTRUCTION SETOUT

10. ALL LEVELS ARE TO A.H.D. AND ARE REFERENCED TO THE T.B.M. INDICATED.
11. COORDINATION OF THIS DESIGN USES MGA 94, CORRECT AS OF THE DATE OF THESE PLANS. FROM 1ST JANUARY 2017, MGA 2020 MAY BE IN STANDARD USE AND WILL DIFFER IN POSITION BY AROUND 1.8 METRES FROM THIS DOCUMENT.
12. NO TBM CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A SECOND TBM. NO HORIZONTAL SETOUT CONTROL CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A THIRD KNOWN POINT. THE CONSULTING SURVEYOR IS TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. TITLE PEGS AND T.B.M's TO BE RE-ESTABLISHED BY A LICENSED SURVEYOR IF FOUND TO BE MISSING.
13. IF USING GNSS \ GPS TO SETOUT FOR CONSTRUCTION PLEASE NOTE:
   a. GNSS HAS REDUCED VERTICAL PRECISION COMPARED TO TRADITIONAL SURVEY METHODS.
   b. ONLY USE A SINGLE POINT CALIBRATION FOR THE VERTICAL THEN TEST TO AT LEAST 1 OTHER STATED TBM BEFORE PROCEEDING.
   c. IF YOU HAVE ANY QUERIES OR CONCERNS CONTACT THE CONSULTING SURVEYOR.

SITE MANAGEMENT DURING CONSTRUCTION

14. THE SUPERINTENDENT IS RESPONSIBLE FOR THE DESIGN AND MANAGEMENT OF THE CONSTRUCTION WORKS. ANY PROBLEMS ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE SUPERINTENDENT.
15. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING DESIGN & CONSTRUCTION MANUAL AND ANY OTHER RELEVANT AUTHORITY SPECIFICATIONS. A COPY OF THE EDCM CAN BE FOUND AT WWW.VPA.VIC.GOV.AU - IF YOU HAVE ANY ISSUES INTERPRETING THE MANUAL CONTACT THE SUPERINTENDENT.
16. ALL WORKS MUST ABIDE BY THE APPROVED CONSTRUCTION MANAGEMENT PLAN AND MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275). APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
17. BEFORE COMMENCING ANY EXCAVATION WORKS OF 1.5m DEPTH OR GREATER, THE CONTRACTOR IS REQUIRED TO SUBMIT THE REQURIED NOTIFICATION TO WORKSAFE VICTORIA. THE NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST THREE (3) DAYS PRIOR TO COMMENCING EXCAVATIONS, A COPY OF THE NOTIFICATION IS TO BE PROVIDED TO THE SUPERINTENDENT. THE CONTRACTOR SHALL COMPLY WITH THE MINES ACT, OCCUPATIONAL HEALTH AND SAFETY ACT, WORKSAFE VICTORIA REQUIREMENTS INCLUDING COMPLIANCE CODES.
18. TWENTY-FOUR (24) HOURS NOTIFICATION TO INSPECTORS OF RELEVANT AUTHORITY IS REQUIRED PRIOR TO AN INSPECTION BEING CONDUCTED ON ANY PARTICULAR PORTION OF THE WORKS.
19. THE CONTRACTOR SHALL TAKE THE UTMOST CARE TO PRESERVE EXISTING TREES. NO TREES SHALL BE REMOVED WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT.
20. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO THE ALLOTMENTS MUST BE MADE GOOD.
21. THE CONTRACTOR SHALL TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL'S SUPERVISING OFFICER PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD MANAGEMENT ACT.
22. DISPOSAL OF EXCESS SPOIL TRUCK ROUTE AND DISPOSAL LOCATION ARE TO BE APPROVED BY THE MUNICIPAL ENGINEERING DEPARTMENT.
23. AT THE COMPLETION OF WORKS ALL RUBBISH, DEBRIS AND SURPLUS SPOIL IS TO BE REMOVED AND ALL LOTS AND ROAD RESERVE TO BE LEFT IN A TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT & RELEVANT AUTHORITY.

PROTECTION OF VEGETATION

24. NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS APPROVED BY THE RESPONSIBLE AUTHORITY.
25. MACHINERY IS NOT TO BE DRIVEN OVER OR PARKED WITHIN THE DRIP ZONE OF ANY TREE.

EARTHWORKS

26. ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS 3798 (2007) - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
27. ALL FILLING WITHIN AREAS OF PROPOSED ROAD PAVEMENT IS TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD.
28. ALL FILLING WITHIN OTHER AREAS IS TO ACHIEVE A MINIMUM COMPACTION OF 95% STANDARD.
29. ANY FILLING IN EXCESS OF 300mm DEPTH IS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION UNLESS DIRECTED OTHERWISE. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL & FILLED USING APPROVED CLAY FILL. TOPSOIL IS TO BE REPLACED NO MORE THAN 150mm THICK TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED AS DETAILED ABOVE IN ACCORDANCE WITH AS3798-1996 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH VERIFICATION PROVIDED TO THE SUPERVISING ENGINEER. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
30. THE SUPERINTENDENT IS TO BE ADVISED OF ANY FILLING THAT ACHIEVES A DEPTH OF 300mm OR GREATER.
31. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
32. ALL TRENCHES ARE TO ACHIEVE THE SPECIFIED COMPACTION RESULTS WITHOUT EXCEPTION. THE SUPERINTENDENT RESERVES THE RIGHT TO REQUIRE COMPACTION TESTING BY A NATA APPROVED LABORATORY AT THE CONTRACTORS EXPENSE.
33. ALL EXCAVATIONS OF DEPTH 1.5m OR GREATER MUST COMPLY WITH LEGISLATION ENFORCED BY WORKSAFE VICTORIA. A "NOTICE OF INTENTION TO COMMENCE EXCAVATION" MUST BE SUBMITTED TO YOUR LOCAL WORKSAFE OFFICE.
34. ALL LOTS ARE TO ACHIEVE A MINIMUM CROSS FALL OF 1 IN 150 (0.67%) TO A LEGAL POINT OF DISCHARGE (DRAINAGE POINT OR ROAD RESERVE) UNLESS STATED OTHERWISE.
35. RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT.

ROAD WORKS AND FOOTPATHS

36. ALL KERB & CHANNEL IS 600 B2 (EDCM 301) UNLESS STATED OTHERWISE.
37. ALL ASPHALT ROAD SEALS ARE TO BE 7mm TYPE 'N' UNLESS STATED OTHERWISE.
38. ALL KERB RADII ARE TO BACK OF KERB UNLESS STATED OTHERWISE.
39. ALL FOOTPATHS ARE TO BE CONSTRUCTED AS PER THE EDCM SERIES 400 STANDARD DRAWINGS AND IN ACCORDANCE WITH COUNCIL STANDARDS UNLESS STATED OTHERWISE.
40. TGSIs ARE TO BE INSTALLED ON ALL PEDESTRIAN CROSSINGS AS PER AS 1428.4.
41. ALL NEW INTERSECTIONS ARE TO HAVE STREET SIGNS INSTALLED TO COUNCIL STANDARDS IRRESPECTIVE OF WHETHER THEY ARE DETAILED ON THE ENGINEERING PLANS OR NOT.
42. AT ALL TEMPORARY STAGE BOUNDARY TERMINATIONS TO ROADS THE CONTRACTOR IS TO INSTALL A D4-5 HAZARD SIGN.
43. ALL CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS AND MINIMUM CEMENT CONTENT OF 320 kg/m³.
44. TRANSITIONS BETWEEN DIFFERENT KERB TYPES TO BE OVER 3.0m MINIMUM, IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER.
45. ROAD PAVEMENT COMPACTION & TESTING REQUIREMENTS ARE AS PER THE INFRASTRUCTURE DESIGN MANUAL.

STORMWATER DRAINAGE AND SERVICE CONDUIT NOTES

46. ALL EASEMENT DRAINAGE PIPES ARE 1.0m OFFSET TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
47. ALL EASEMENT DRAINAGE PITS ARE TO BE ARE 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
48. ALL PROPERTY DRAINAGE CONNECTIONS FROM ROAD RESERVES ARE TO ENTER THE PROPERTY 1.0m O/S SIDE BOUNDARY ON THE LOW SIDE WITH 0.5m COVER UNLESS NOTED OTHERWISE.
49. ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH SHALL BE BACKFILLED IN ACCORDANCE WITH THE EDCM UNLESS STATED OTHERWISE
50. REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM DRAWING.
51. STORMWATER DRAINS SHALL BE RCP OR PVC CLASS 8 UNLESS OTHERWISE SHOWN. RCP PIPES BELOW 750mm DIA SHALL BE RUBBER RING JOINTED CLASS 2, RCP PIPES ABOVE 750mm DIA SHALL BE FLUSH JOINTED CLASS 2.
52. ALL RCP FLUSH JOINTED PIPES ARE TO HAVE EXTERNAL SEALING BANDS.
53. ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
54. ALL CONDUIT LOCATIONS ARE TO BE STAMPED IN THE CONCRETE KERBING.
55. ALL CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
56. ALL GRATES ARE TO BE HOT DIPPED GALVANISED.
57. 100mm DEEP CATCH DRAINS TO BE CONSTRUCTED ALONG ALL EASEMENT DRAINAGE AND DIRECTED TO LEGAL POINT OF DISCHARGE.
58. STEP IRONS ARE NOT TO BE INSTALLED IN ANY DRAINAGE PIT. ACCESS LIDS ARE TO BE LOCATED TO ENABLE REASONABLE ACCESS.
59. ALL HOUSE DRAIN CONNECTIONS TO REINFORCED CONCRETE PIPES ARE TO UTILISE "CONCONECT" OR COUNCIL APPROVED EQUIVALENT PRODUCTS TO AVOID PIPE PROTRUSIONS INTO THE LARGER PIPE.
60. REFER ROAD LAYOUT PLANS FOR WATER & GAS ROAD SERVICE CONDUIT LOCATIONS. INTERSECTION DETAILS PLANS DO NOT SHOW CONDUITS.
61. ELECTRICITY & TELECOMMUNICATIONS CONDUITS SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY. REFER TO ELECTRICITY & TELECOMMUNICATION PLANS FOR ACTUAL ROAD SERVICE CONDUIT LOCATIONS. IF THERE ARE ANY DISCREPANCIES BETWEEN THESE PLANS CONTACT SUPERINTENDENT FOR CLARIFICATION.

CONSTRUCTION HOLD POINTS

62. CONSTRUCTION HOLD POINTS ARE TO BE IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL.

EMERGENCY CONTACTS

63. THE PROJECT AREA CONTAINS THE FOLLOWING SERVICES FOR ASSISTANCE IN EMERGENCY CONTACT:

SERVICE	AUTHORITY & CONTACT TELEPHONE	
DRAINAGE	MITCHELL COUNCIL	03 5734 6200
ELECTRICITY	SP AUSNET	180 088 208
GAS	APA GROUP	08 8115 4500
COMMUNICATIONS	TELSTRA	1800 653 935
SEWER & WATER	YARRA VALLEY WATER	03 9872 1456

64. IN ANY EMERGENCY IF YOU BELIEVE LIFE OR PROPERTY IS THREATENED DO NOT HESITATE TO CONTACT STATE EMERGENCY SERVICES ON TELEPHONE 000.

REV	REVISION	DES	DWG CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM NJB	18/05/21

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COMPLIANCE ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
LOCALITY PLAN
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R01 / 34
REV: A

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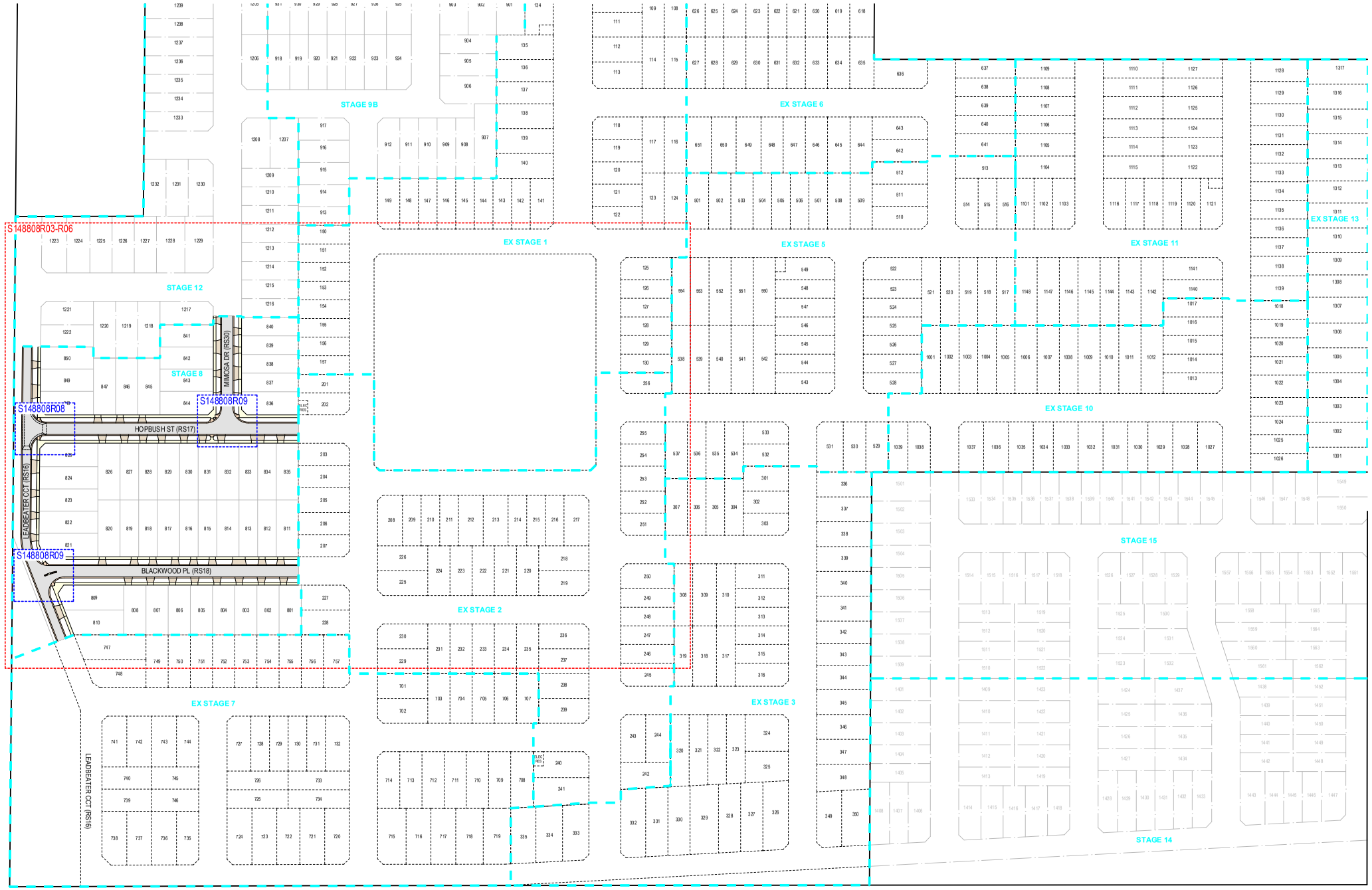

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REV REVISION DES DWG CHK DATE

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OORANYA ESTATE

SCALE 1:2,000

20 0 20 40 60 80 100

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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
OVERALL DEVELOPMENT PLAN
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**

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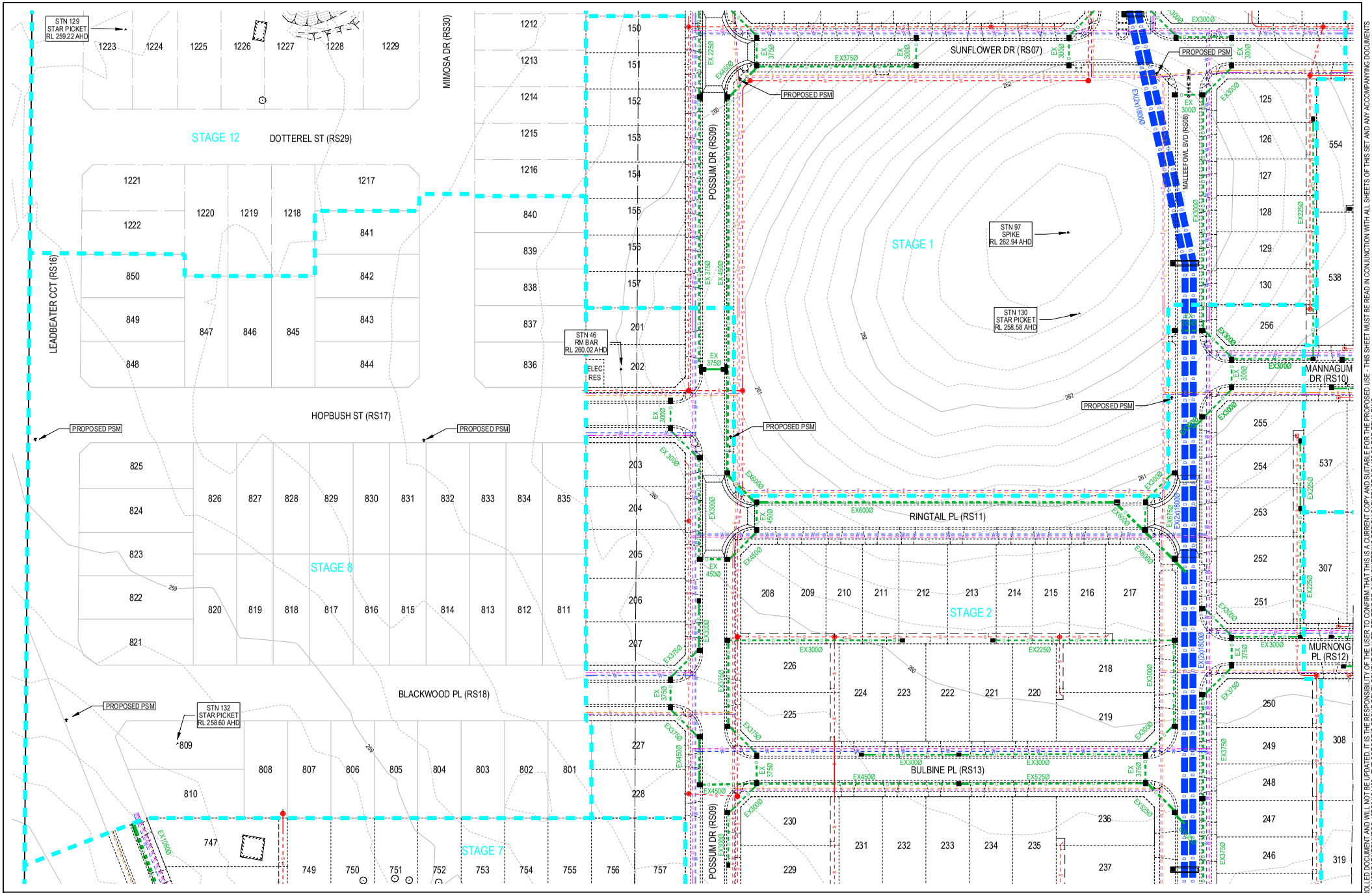

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

MGA94
ZONE 55

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OORANYA ESTATE

SCALE 1:1,000
10 0 10 20 30 40 50
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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
EXISTING CONDITIONS & SURVEY STATIONS / TBMS
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
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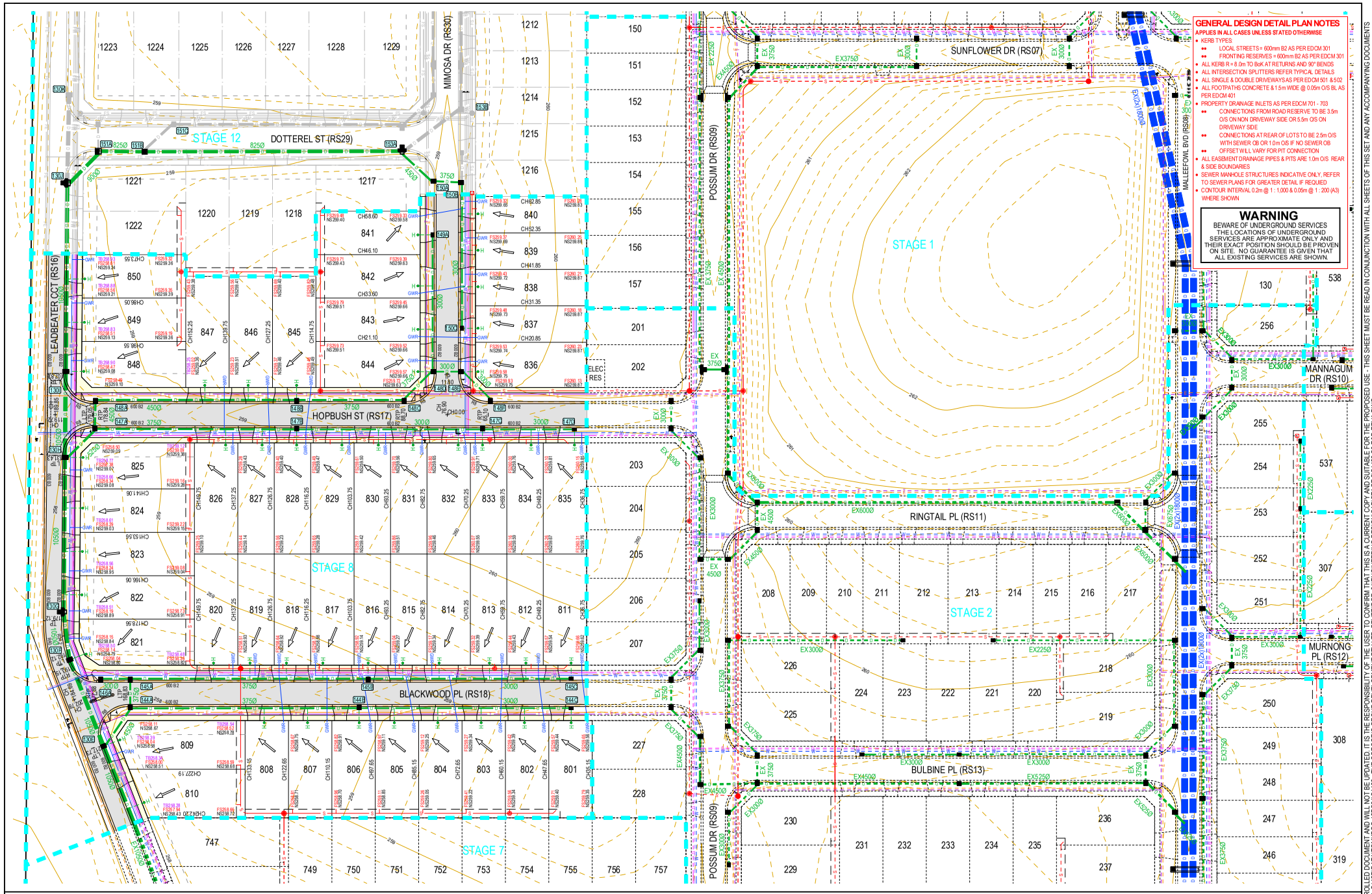
PLOT DATE: 18/05/2021 FILE: C:\12D\DATA\TOMKBGO-12DS01\S148808 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_91\ENGINEERING DESIGN\CAD\STAGE 8\S148808 S8 R&D REV A.DWG



GENERAL DESIGN DETAIL PLAN NOTES

APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES
  - LOCAL STREETS = 600mm B2 AS PER EDCM 301
  - FRONTING RESERVES = 600mm B2 AS PER EDCM 301
- ALL KERB R = 8.0m TO BoK AT RETURNS AND 90° BENDS
- ALL INTERSECTION SPLITTERS REFER TYPICAL DETAILS
- ALL SINGLE & DOUBLE DRIVEWAYS AS PER EDCM 501 & 502
- ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S BL AS PER EDCM 401
- PROPERTY DRAINAGE INLETS AS PER EDCM 701 - 703
  - CONNECTIONS FROM ROAD RESERVE TO BE 3.5m O/S ON NON DRIVEWAY SIDE OR 5.5m O/S ON DRIVEWAY SIDE
  - CONNECTIONS AT REAR OF LOTS TO BE 2.5m O/S WITH SEWER OB OR 1.0m O/S IF NO SEWER OB
  - OFFSET WILL VARY FOR PIT CONNECTION
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
- SEWER MANHOLE STRUCTURES INDICATIVE ONLY, REFER TO SEWER PLANS FOR GREATER DETAIL IF REQUIED
- CONTOUR INTERVAL 0.2m @ 1 : 1,000 & 0.05m @ 1 : 200 (A3) WHERE SHOWN

WARNING

BEWARE OF UNDERGROUND SERVICES
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REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE

SCALE 1:1,000
10 0 10 20 30 40 50
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
CONSTRUCTION LAYOUT PLAN
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R04 / 34
REV: A

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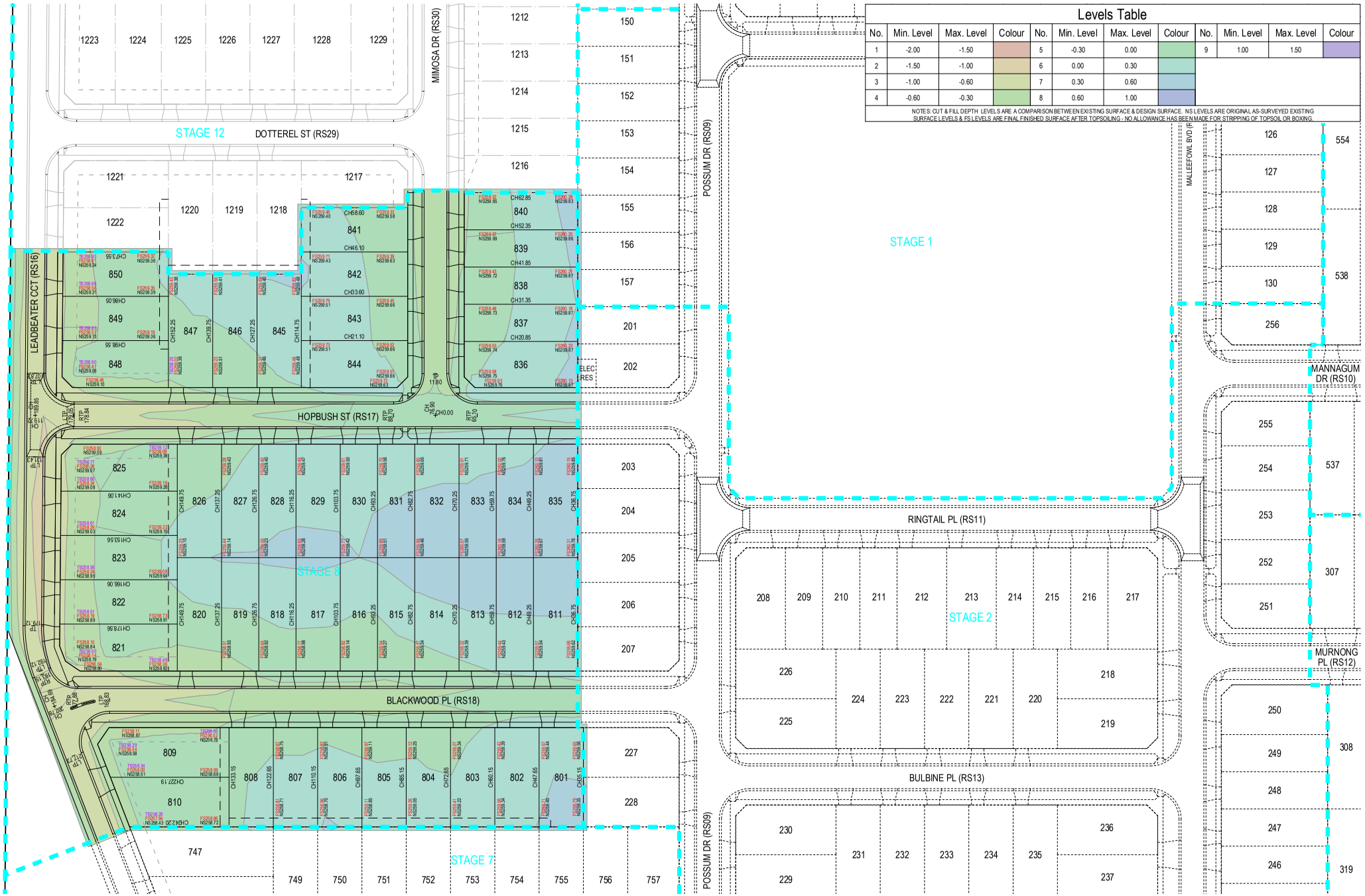

Levels Table

No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour
1	-2.00	-1.50		5	-0.30	0.00		9	1.00	1.50	
2	-1.50	-1.00		6	0.00	0.30					
3	-1.00	-0.60		7	0.30	0.60					
4	-0.60	-0.30		8	0.60	1.00					

NOTES: CUT & FILL DEPTH LEVELS ARE A COMPARISON BETWEEN EXISTING SURFACE & DESIGN SURFACE. NS LEVELS ARE ORIGINAL AS-SURVEYED EXISTING SURFACE LEVELS & FS LEVELS ARE FINAL FINISHED SURFACE AFTER TOPSOILING - NO ALLOWANCE HAS BEEN MADE FOR STRIPPING OF TOPSOIL OR BOXING.

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
CUT & FILL DEPTH RANGES & LOT LEVELS
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R05 / 34
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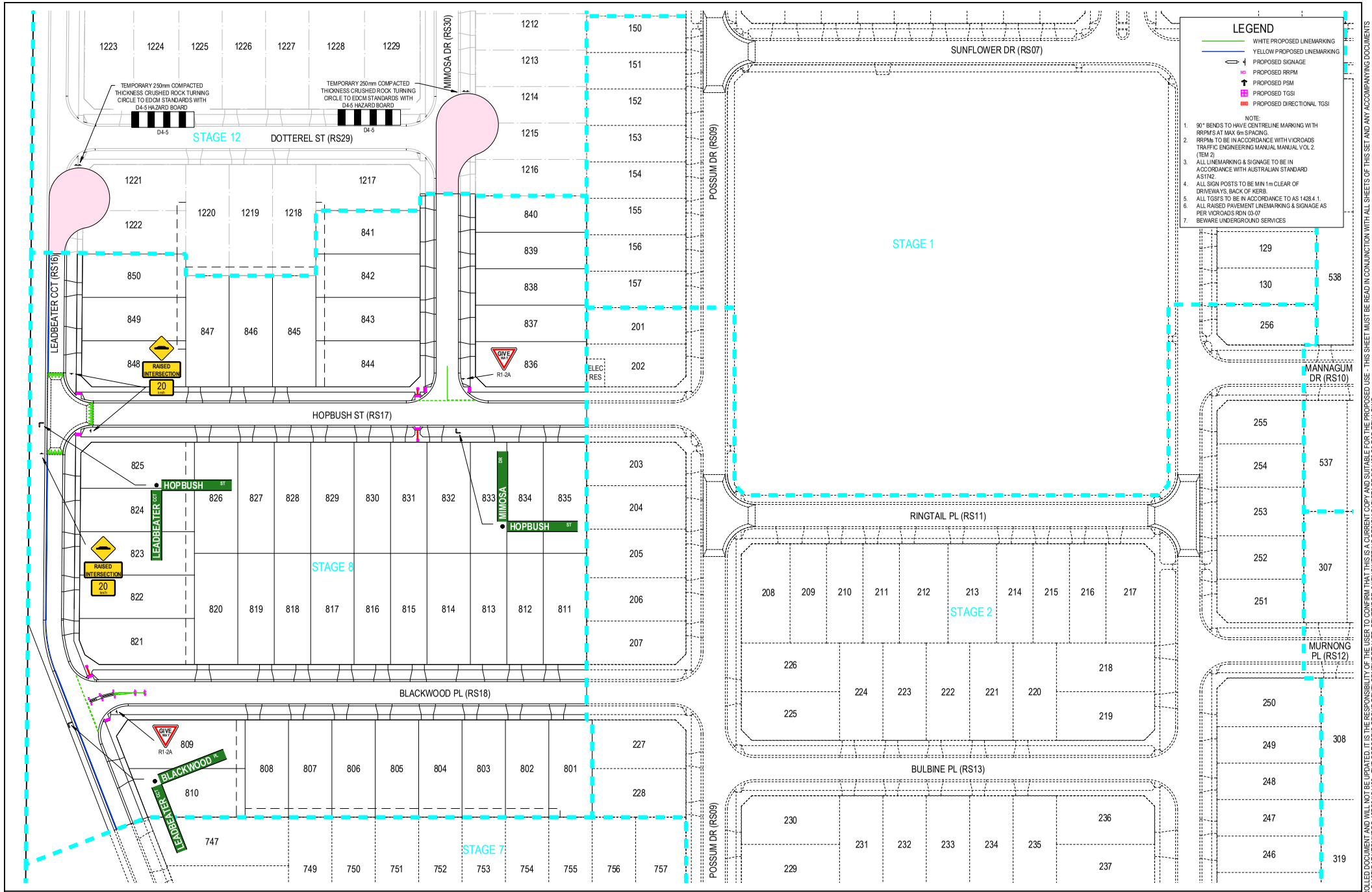

A AS SUBMITTED TO COUNCIL JM JM NJB 18/05/21

REV REVISION DES DWG CHK DATE

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
SIGNAGE & LINEMARKING PLAN
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R06 / 34
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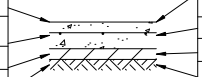
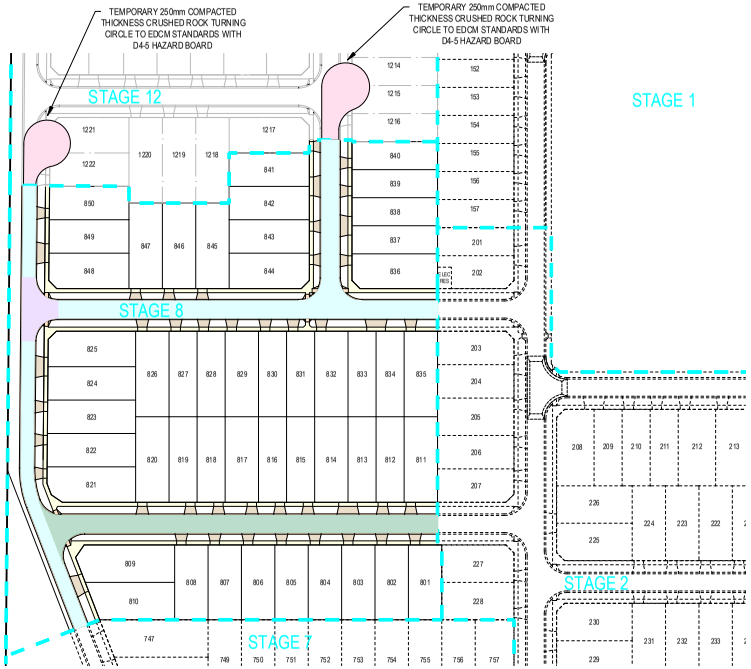
CONCRETE STD SINGLE & DOUBLE DRIVEWAY PAVEMENT DETAILS (EDCM 501 - 502)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SL82 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	50	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE 3 BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE G BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



CONCRETE FOOTPATH & SHARED PATH PAVEMENT DETAILS (EDCM 401)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SL72 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	50	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE 3 BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE G BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

TEMPORARY TURNING CIRCLE PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	250	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK

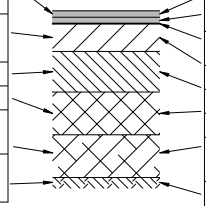


PAVEMENT DESIGN TO BE READ IN CONJUNCTION WITH GTS REPORT 20C 0008-2

PAVEMENT NOTES:

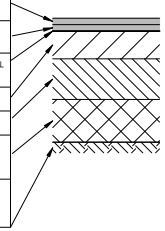
A. PAVEMENT DESIGNS PRODUCED IN ACCORDANCE WITH GTS REPORT 20C 0008-2
B. PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% MODIFIED MAXIMUM DRY DENSITY (MMDD).
C. UPPER PAVEMENT SUBBASE COURSE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 96% MMDD.
D. LOWER PAVEMENT SUBBASE COURSE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 95% MMDD.
E. THE CAPPING LAYER SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD AND EXTEND 1.0m BEHIND BACK OF KERB.
F. PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.
G. SUBGRADE PREPARATION AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE WITH RELEVANT STANDARDS.
H. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCL' ROCK & CLAY) MUST BE REMOVED. THE SUBGRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
I. PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
J. ALL SUBSURFACE DRAINS TO BE CONSTRUCTED AS PER STANDARD DRAWING EDCM 202 FOR EXPANSIVE SUBGRADES.
K. IN THE CASE OF ANY PAVEMENT DESIGN CONFLICTS, GTS REPORT 20C 0008-2 WILL TAKE PRECEDENCE.

670mm DEPTH RAISED INTERSECTION PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 CONCRETE SURFACE FINISH	160	HANSONS EXPOSED AGGREGATE HEAVY DUTY. CONCRETE 32MPa WITH 2 LAYER SL82 REINFORCEMENT WITH 50mm MIN. COVER. (PAYNESVILLE/ROSEDAL IN COLOUR)
2 BASE COURSE	130	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B BELOW)
3 UPPER SUBBASE COURSE	130	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)
4 LOWER SUBBASE COURSE	100	40mm NOM. SIZE CLASS 4 CRUSHED ROCK (SEE NOTE D ABOVE)
5 CAPPING LAYER	150	CONTINUATION OF LOWER SUBBASE COURSE OR EXISTING SUBGRADE MATERIAL STABILISED WITH 3% LIME BY MASS (SEE NOTE E ABOVE)
6 SUBGRADE		



570mm DEPTH ACCESS STREET 1 PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 ASPHALT	30	TYPE N ASPHALT (10mm)
2 BITUMEN CRUMB RUBBER ASPHALT	30	SIZE 10 ASPHALT
3 SAMI SEAL \ BITUMINOUS PRIME		SAMI SEAL (10mm) - S18RF (APPLICATION RATE OF GREATER THAN OR EQUAL TO 1.8 LITRES/m². BITUMINOUS PRIME (UNDER SAMI SEAL)
4 BASE COURSE	130	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B BELOW)
5 UPPER SUBBASE COURSE	130	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)
6 LOWER SUBBASE COURSE	100	40mm NOM. SIZE CLASS 4 CRUSHED ROCK (SEE NOTE D ABOVE)
7 CAPPING LAYER	150	CONTINUATION OF LOWER SUBBASE COURSE OR EXISTING SUBGRADE MATERIAL STABILISED WITH 3% LIME BY MASS (SEE NOTE E ABOVE)
8 SUBGRADE		

440mm DEPTH ACCESS STREET PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 ASPHALT	20	TYPE L ASPHALT (7mm)
2 BITUMEN CRUMB RUBBER ASPHALT	30	SIZE 10 ASPHALT
3 SAMI SEAL \ BITUMINOUS PRIME		SAMI SEAL (10mm) - S18RF (APPLICATION RATE OF GREATER THAN OR EQUAL TO 1.8 LITRES/m². BITUMINOUS PRIME (UNDER SAMI SEAL)
4 BASE COURSE	140	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B BELOW)
5 SUBBASE COURSE	100	20mm NOM. SIZE CLASS 3 CRUSHED ROCK (SEE NOTE D ABOVE)
7 CAPPING LAYER	150	40mm NOM. SIZE CLASS 4 CRUSHED ROCK (SEE NOTE D ABOVE)
8 SUBGRADE		



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A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
PAVEMENT DETAILS
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: PRELIMINARY
PROJECT & DWG No: S148808R07 / 34
REV: A

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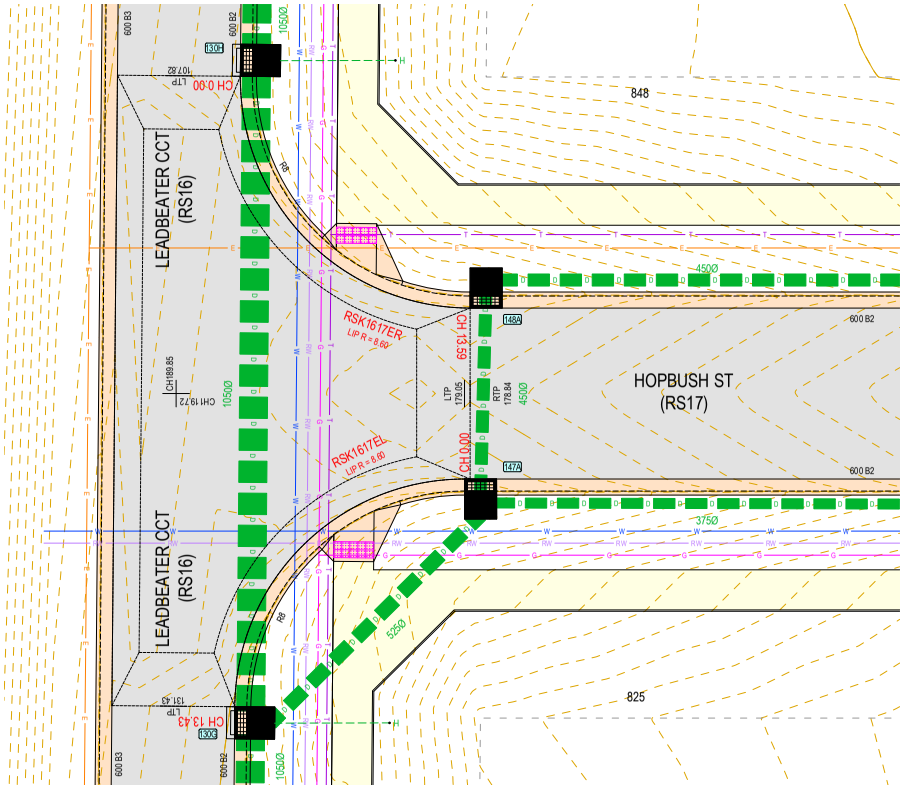

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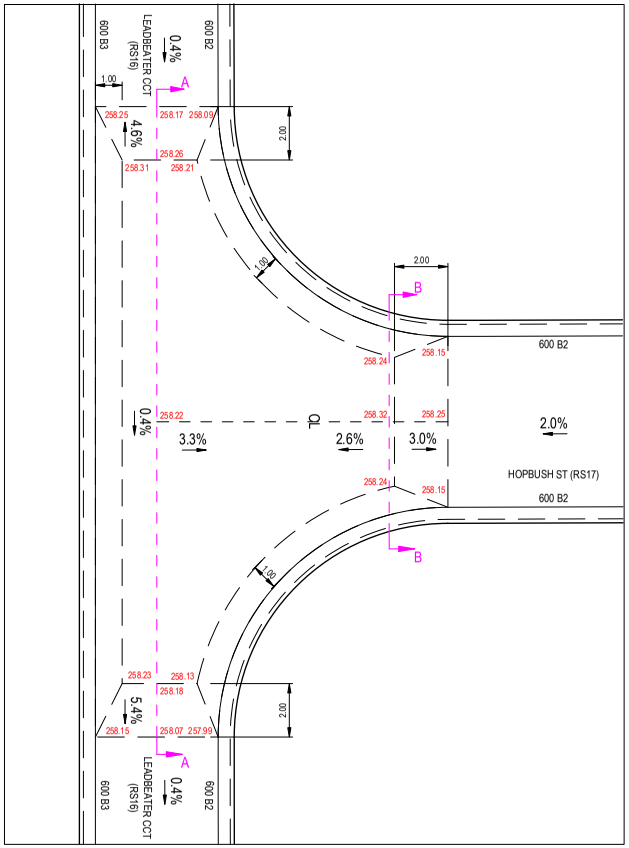
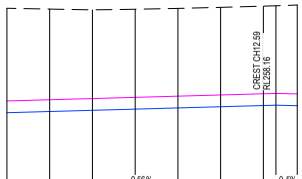


RAISED INTERSECTION LEVELS AND GRADES

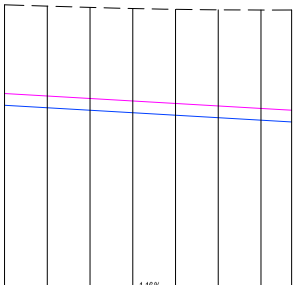
SCALE 1:200

NOTE:
REFER TO TYPICAL DETAILS FOR CROSS SECTION DETAILS



DESIGN LIP OF KERB		0.56%										-0.5%	
HORIZ. GEOMETRY		R-8.6m HC											
DATUM RL 257.0													
DESIGN LIP OF KERB	258.09	258.10	258.11	258.12	258.13	258.15	258.16	258.16	258.16				
DESIGN BACK OF KERB	258.20	258.21	258.22	258.23	258.24	258.26	258.27	258.27					
EXISTING SURFACE	259.07	259.06	259.05	259.06	259.07	259.08	259.09	259.09	259.10				
CHAINAGE	0.00	2.00	4.00	6.00	8.00	10.00	12.00	12.59	13.59				

RSK1617ER
SCALE H 1 : 250 V 1 : 50



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HORIZ. GEOMETRY		R-8.6m HC							
DATUM RL 256.0									
DESIGN LIP OF KERB	258.15	258.13	258.10	258.08	258.06	258.03	258.01	257.99	
DESIGN BACK OF KERB	258.26	258.24	258.21	258.19	258.17	258.14	258.12		
EXISTING SURFACE	259.08	259.08	259.07	259.06	259.05	259.04	259.04	259.04	
CHAINAGE	0.00	2.00	4.00	6.00	8.00	10.00	12.00	13.43	

RSK1617EL
SCALE H 1 : 250 V 1 : 50

REV	REVISION	DES	DWG	CHK	DATE
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WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
INTERSECTION DETAILS (1/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R08 / 34
REV: A

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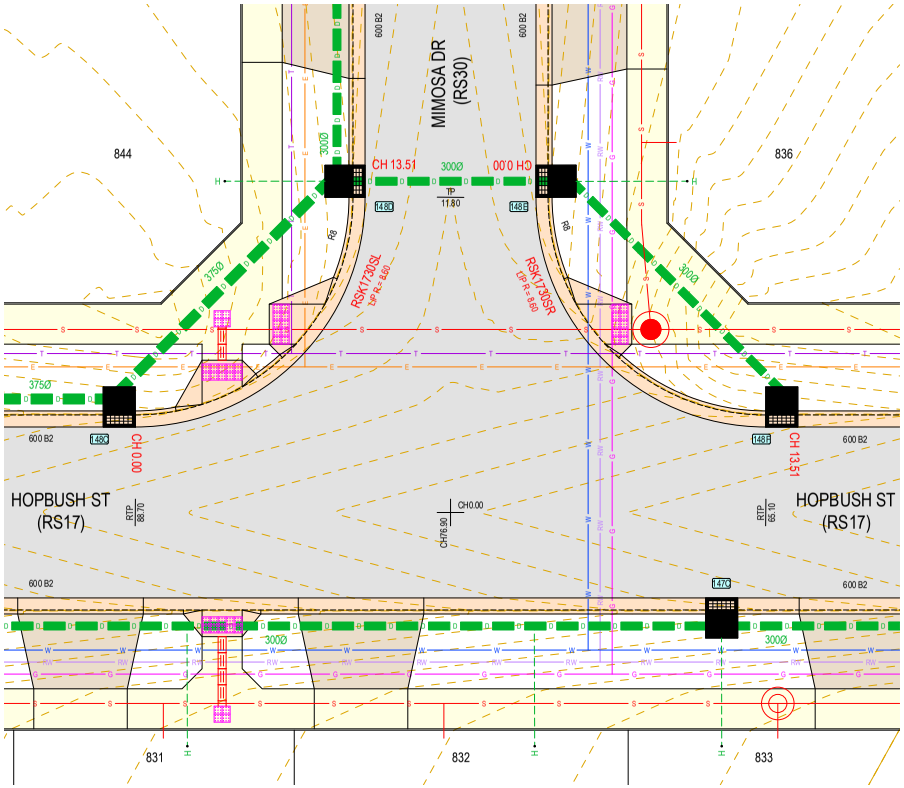

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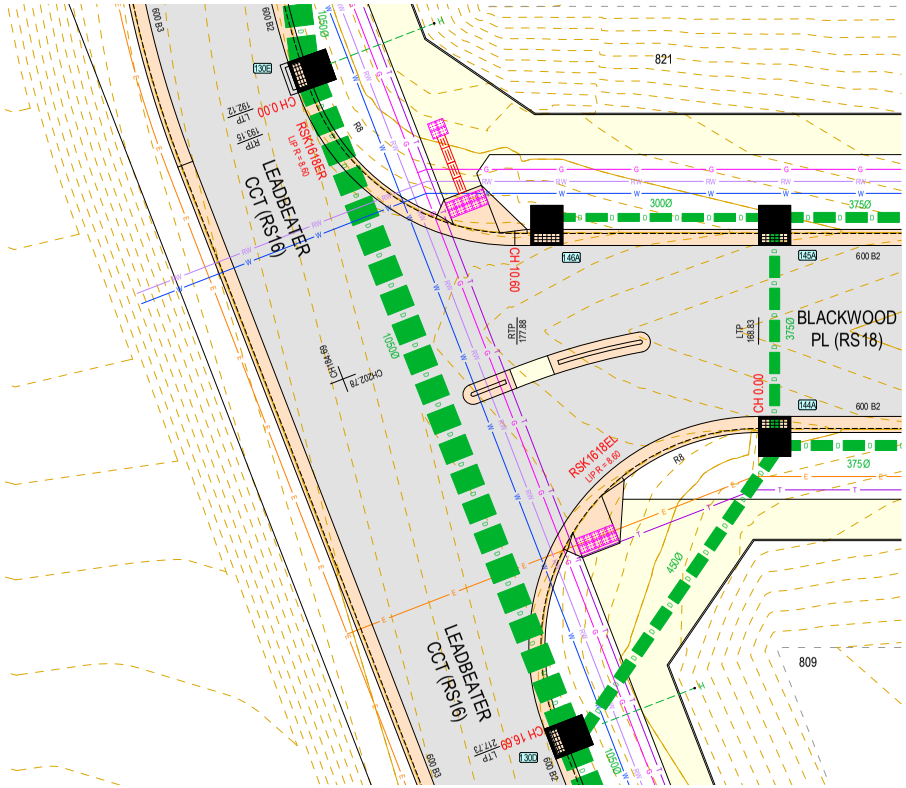
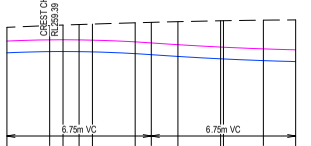
  - •• LOCAL STREETS = 600mm B2 AS PER EDCM 301
  - •• FRONTING RESERVES = 600mm B2 AS PER EDCM 301
- ALL KERB R = 8.0m TO BoK AT RETURNS AND 90° BENDS
- ALL INTERSECTION SPLITTERS REFER TYPICAL DETAILS
- ALL SINGLE & DOUBLE DRIVEWAYS AS PER EDCM 501 & 502
- ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S BL AS PER EDCM 401
- PROPERTY DRAINAGE INLETS AS PER EDCM 701 - 703
  - •• CONNECTIONS FROM ROAD RESERVE TO BE 3.5m O/S ON NON DRIVEWAY SIDE OR 5.5m O/S ON DRIVEWAY SIDE
  - •• CONNECTIONS AT REAR OF LOTS TO BE 2.5m O/S WITH SEWER OB OR 1.0m O/S IF NO SEWER OB
  - •• OFFSET WILL VARY FOR PIT CONNECTION
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
- SEWER MANHOLE STRUCTURES INDICATIVE ONLY, REFER TO SEWER PLANS FOR GREATER DETAIL IF REQUIED
- CONTOUR INTERVAL 0.2m @ 1 : 1,000 & 0.05m @ 1 : 200 (A3) WHERE SHOWN

WARNING

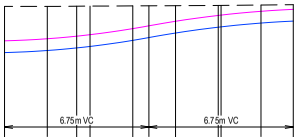
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.





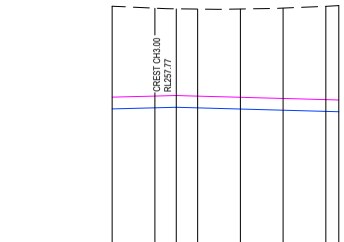
DESIGN LIP OF KERB	0.9%				-1.42%					-0.5%		
HORIZ. GEOMETRY					R-8.6m HC							
DATUM RL 258.0												
DESIGN LIP OF KERB	259.38	259.39	259.39	259.39	259.39	259.37	259.36	259.34	259.32	259.32	259.31	259.30
DESIGN BACK OF KERB	259.49	259.50	259.50	259.50	259.50	259.48	259.47	259.45	259.43	259.43	259.42	
EXISTING SURFACE	259.62	259.63	259.64	259.64	259.65	259.66	259.66	259.67	259.68	259.68	259.68	259.69
CHAINAGE	0.00	2.00	2.62	3.38	4.00	6.00	6.75	8.00	10.00	10.13	12.00	13.51

RSK1730SL
SCALE H 1 : 250 V 1 : 50



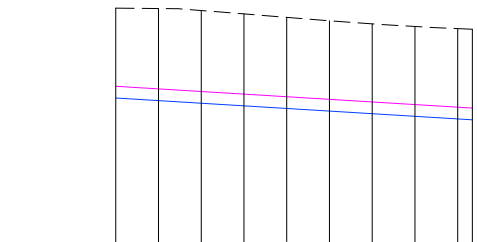
DESIGN LIP OF KERB	0.5%				3.66%					0.9%		
HORIZ. GEOMETRY					R-8.6m HC							
DATUM RL 258.0												
DESIGN LIP OF KERB	259.38	259.32	259.34	259.35	259.41	259.44	259.48	259.53	259.54	259.57	259.59	
DESIGN BACK OF KERB	259.41	259.43	259.45	259.46	259.52	259.55	259.59	259.64	259.65	259.68		
EXISTING SURFACE	259.73	259.73	259.73	259.73	259.73	259.73	259.74	259.74	259.74	259.74	259.74	
CHAINAGE	0.00	2.00	3.38	4.00	6.00	6.75	8.00	10.00	10.13	12.00	13.51	

RSK1730SR
SCALE H 1 : 250 V 1 : 50



DESIGN LIP OF KERB	-0.5%				-0.55%						
HORIZ. GEOMETRY					R-8.6m HC						
DATUM RL 256.0											
DESIGN LIP OF KERB	257.75	257.76	257.77	257.76	257.75	257.74	257.73	257.73			
DESIGN BACK OF KERB	257.86	257.87	257.88	257.87	257.86	257.85	257.84	257.84			
EXISTING SURFACE	258.71	258.69	258.69	258.68	258.69	258.69	258.69	258.71	258.72		
CHAINAGE	0.00	2.00	3.00	4.00	6.00	8.00	10.00	10.60			

RSK1618ER
SCALE H 1 : 250 V 1 : 50



DESIGN LIP OF KERB	-1.22%													
HORIZ. GEOMETRY	R-8.6m HC													
DATUM RL 256.0														
DESIGN LIP OF KERB	257.85	257.83	257.81	257.78	257.76	257.73	257.71	257.68	257.66					
DESIGN BACK OF KERB	257.96	257.94	257.92	257.89	257.87	257.84	257.82	257.79	257.77	257.66				
EXISTING SURFACE	258.70	258.69	258.67	258.64	258.61	258.58	258.55	258.52	258.50	258.50				
CHAINAGE	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	16.69				

RSK1618EL
SCALE H 1 : 250 V 1 : 50

REV	REVISION	DES	DWG	CHK	DATE
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MGA94 ZONE 55

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2 0 2 4 6 8 10
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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
INTERSECTION DETAILS (2/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R09 / 34
REV: A

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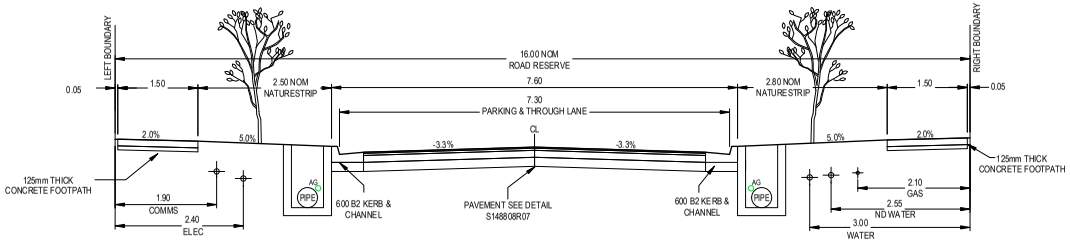
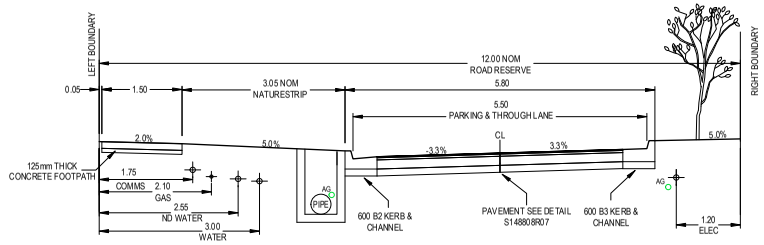


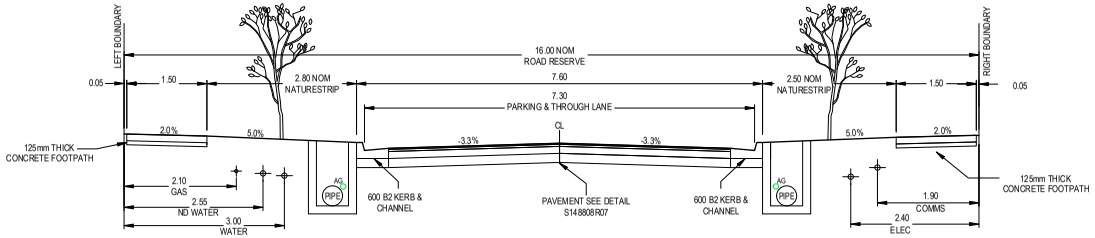
TYPICAL SECTION - BLACKWOOD PL (RS18) & MIMOSA DR (RS30)

SCALE 1:100



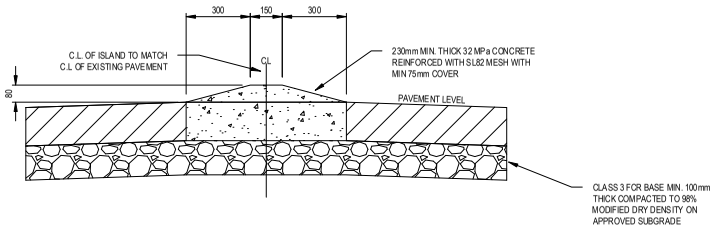
TYPICAL SECTION - LEADBEATER CCT (RS16)

SCALE 1:100



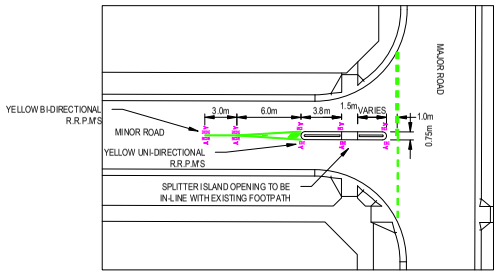
TYPICAL SECTION - HOPBUSH ST (RS17)

SCALE 1:100



TYPICAL SPLITTER ISLAND CROSS SECTION

SCALE 1:25



TYPICAL SPLITTER ISLAND LAYOUT

SCALE 1:500

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WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
TYPICAL DETAILS (1/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
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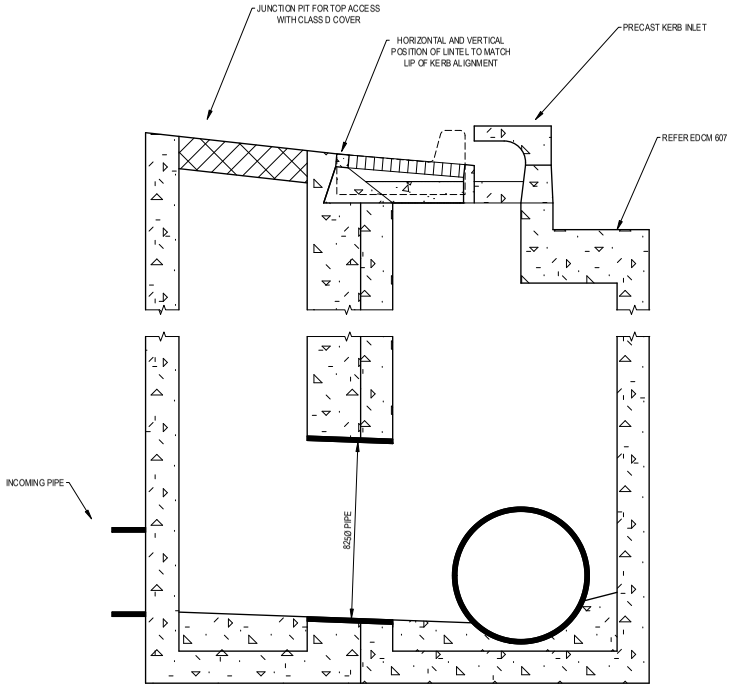
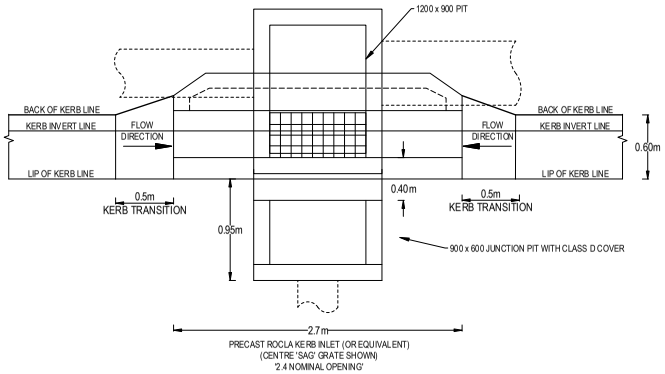


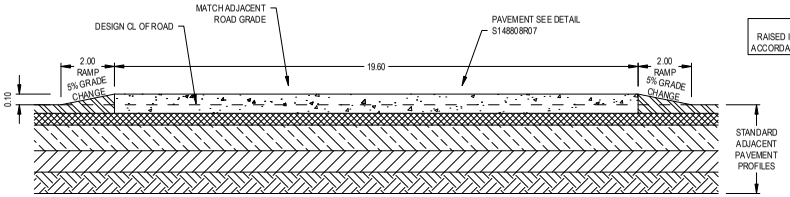
EXTENDED KERB INLET SECTION - SAG

SCALE 1:25



EXTENDED KERB INLET DETAIL - SAG

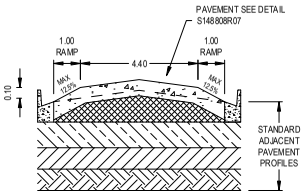
SCALE 1:50



NOTE:
RAISED INTERSECTION TO BE BUILT IN ACCORDANCE WITH VICROADS RDN 03-07

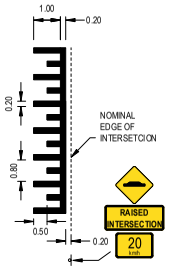
RAISED INTERSECTION TYPICAL SECTION A-A

SCALE H1:200 V1:50



RAISED INTERSECTION TYPICAL SECTION B-B

SCALE H1:200 V1:50



REV	REVISION	DES	DWG	CHK	DATE
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TYPICAL DETAILS (2/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R11 / 34
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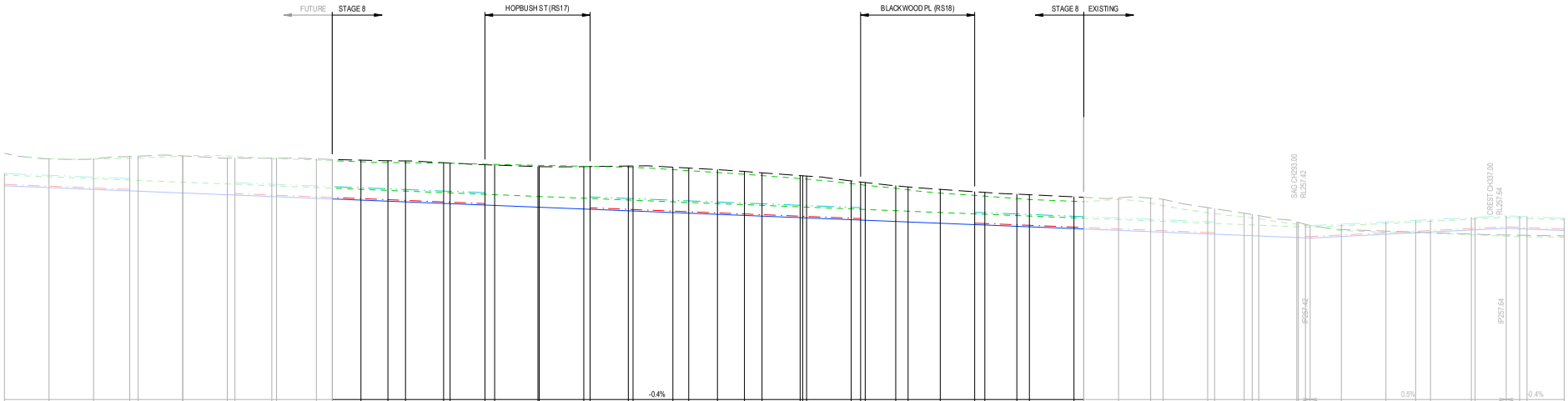

REV	REVISION	DES	DWG	CHK	DATE
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OORANYA ESTATE - STAGE 8
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LEADBEATER CCT (RS16) LONG SECTION
MITCHELL SHIRE COUNCIL # REF: PLP033/19
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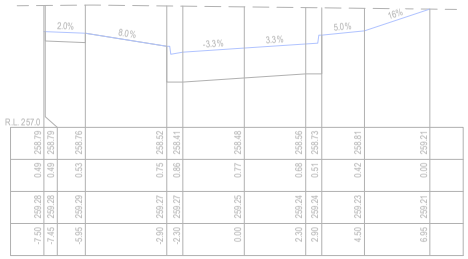
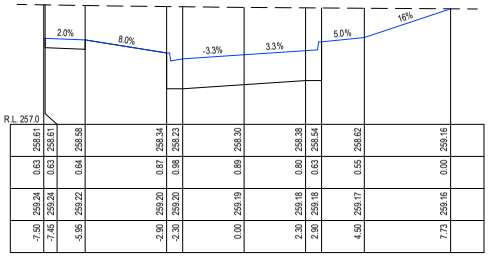
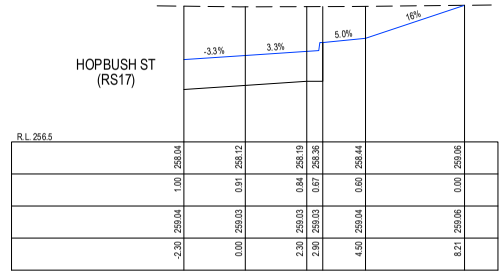


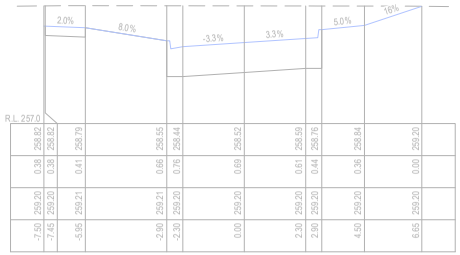
CH 28.12



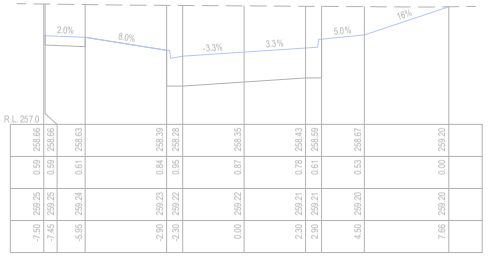
CH 73.55



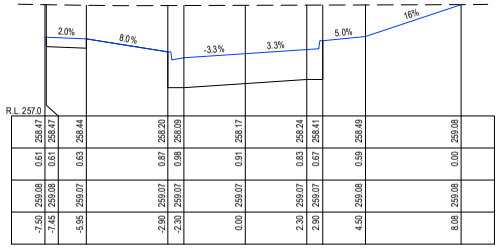
CH 119.72



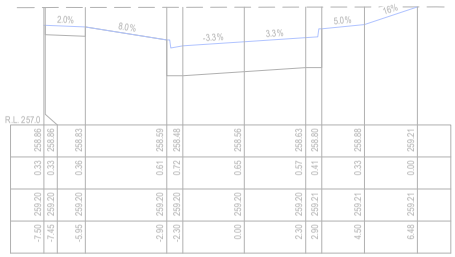
CH 20



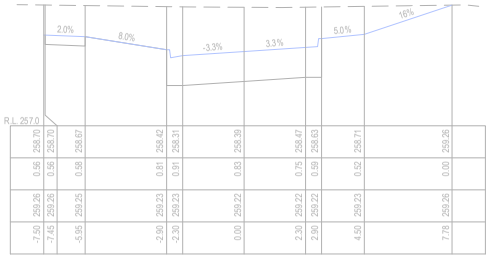
CH 61.05



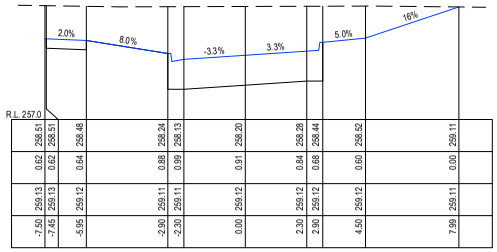
CH 107.82



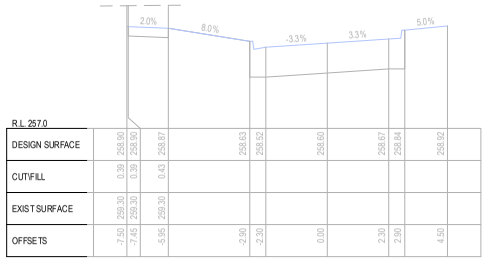
CH 10



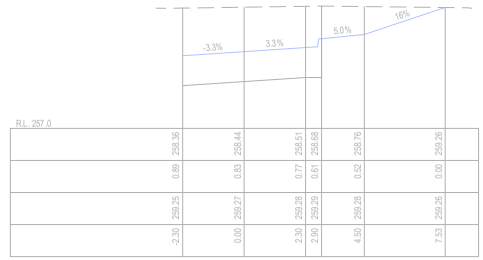
CH 51.72



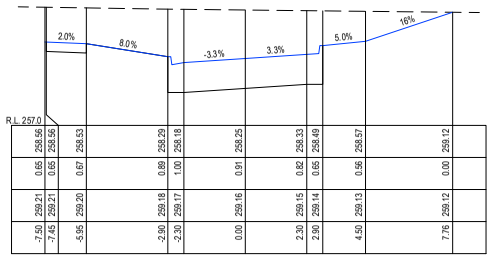
CH 98.55



CH 0



CH 40.02



CH 86.05

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
LEADBEATER CCT (RS16) CROSS SECTIONS (1/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R13 / 34
REV: A

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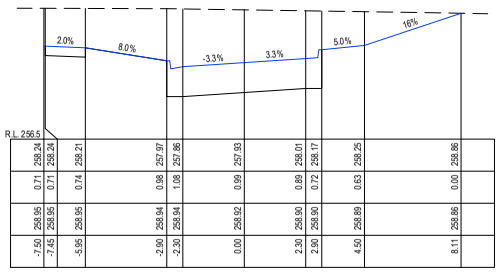
PLOT DATE: 18/05/2021 FILE: C:\12D\DATA\TOMKBGO-12DS01\S148808 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_91\ENGINEERING DESIGN\CAD\STAGE 8\S148808 S8 R&D REV A.DWG



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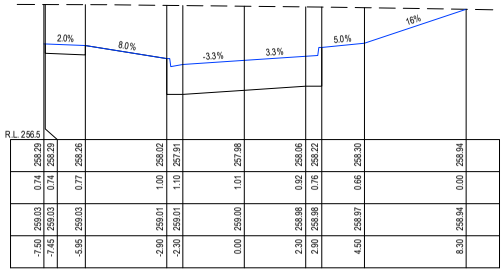

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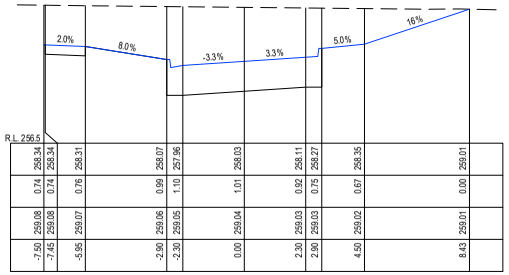

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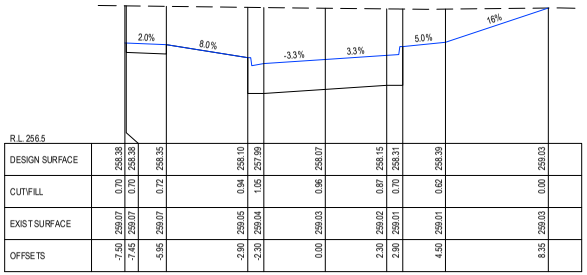

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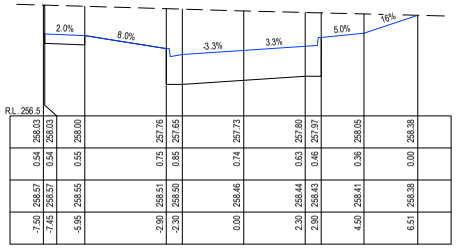

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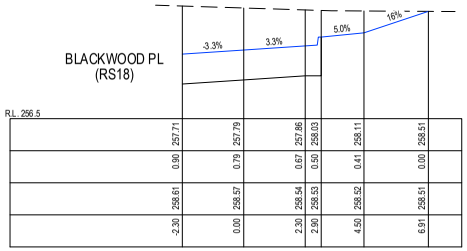

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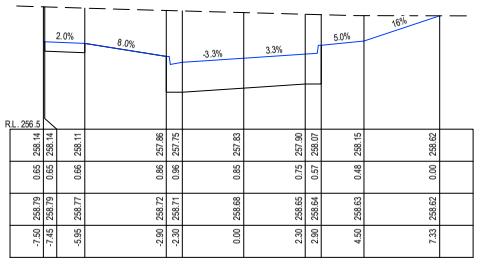

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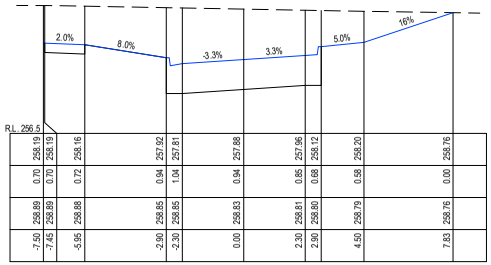

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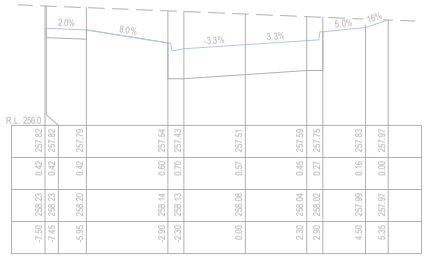

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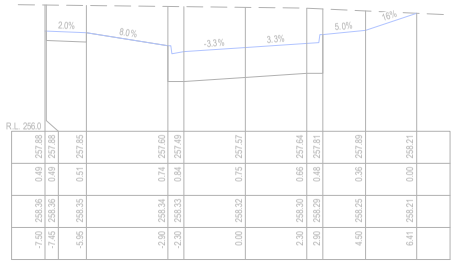

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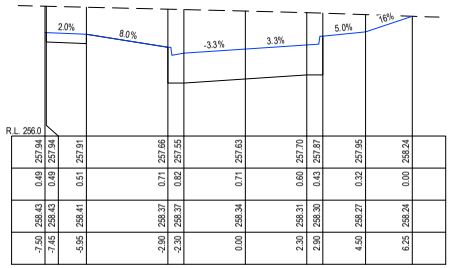

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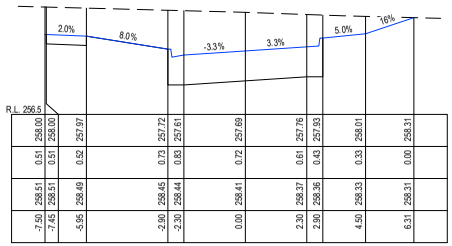

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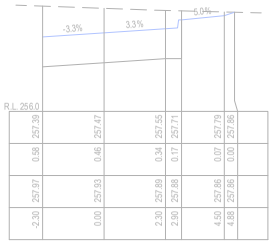

CH 281.47

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE

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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
LEADBEATER CCT (RS16) CROSS SECTIONS (2/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R14 / 34
REV: A

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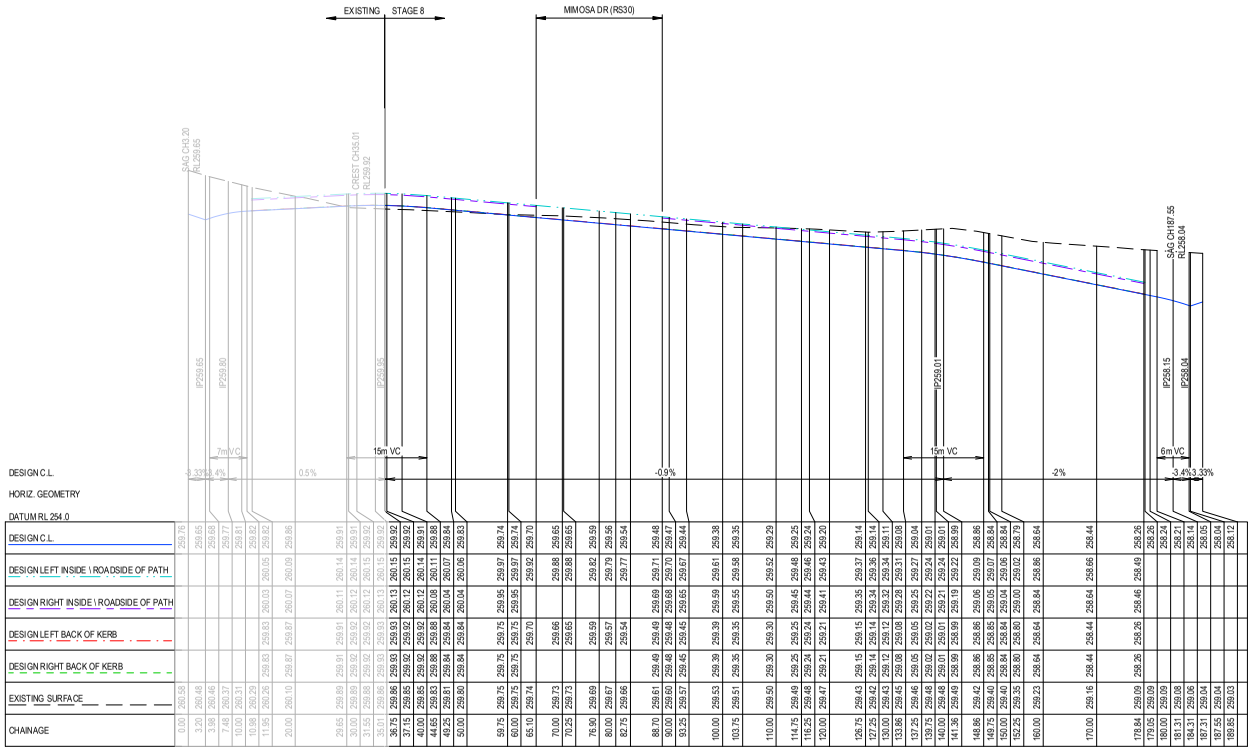
PLOT DATE: 18/05/2021 FILE: C:\12D\DATA\TOMKBGO-12DS\TS1488 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_9\ENGINEERING DESIGN\CAD\STAGE 8\S1488 S8 R&D REV A.DWG



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3.20	260.48					259.65
3.98	260.46					259.68
7.48	260.37					259.77
10.00	260.31					259.81
10.98	260.29					259.82
11.95	260.26	259.83	259.83	260.03	260.05	259.82
20.00	260.10	259.87	259.87	260.07	260.09	259.86
29.65	259.89	259.91	259.91	260.11	260.14	259.91
30.00	259.89	259.92	259.92	260.12	260.14	259.91
31.55	259.88	259.92	259.92	260.12	260.15	259.92
35.01	259.86	259.93	259.93	260.13	260.15	259.92
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80.00	259.67		259.57		259.79	259.56
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188.85	259.03					258.12

REV	REVISION	DES	DWG	CHK	DATE
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WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
HOPBUSH ST (RS17) LONG SECTION
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R15 / 34
REV: A

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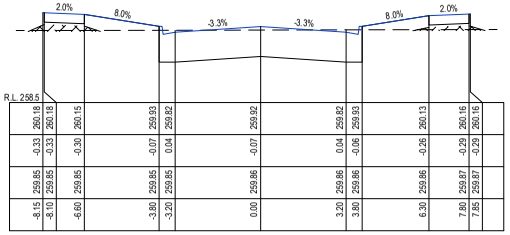
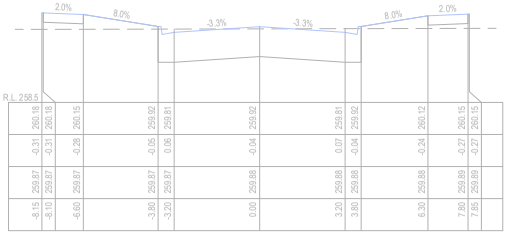


CH 36.75



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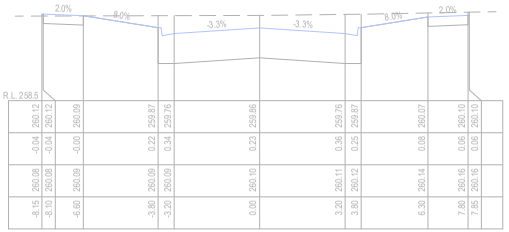

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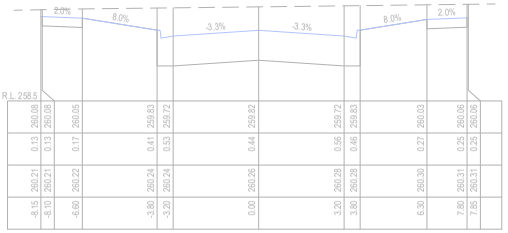

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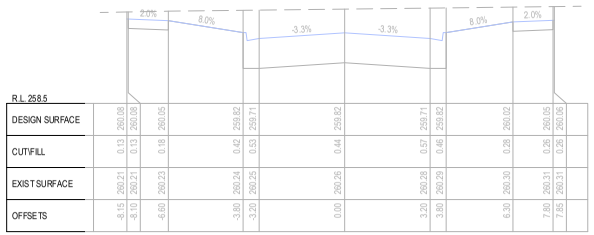

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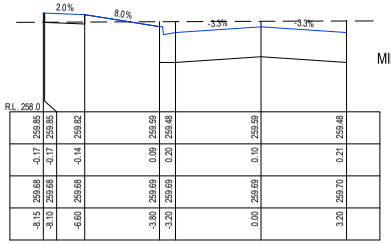

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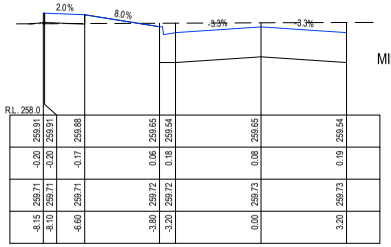

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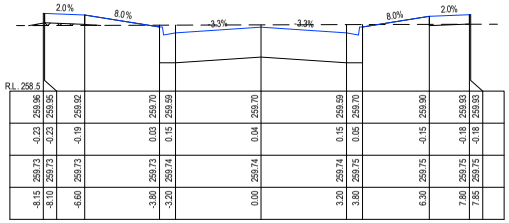

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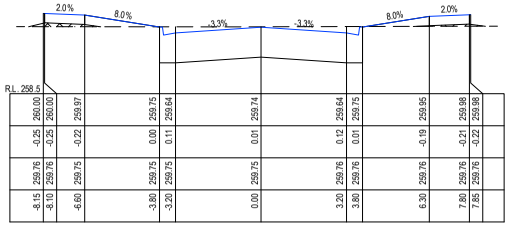

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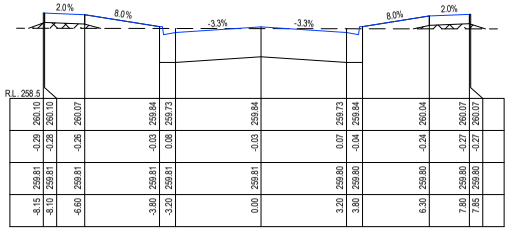

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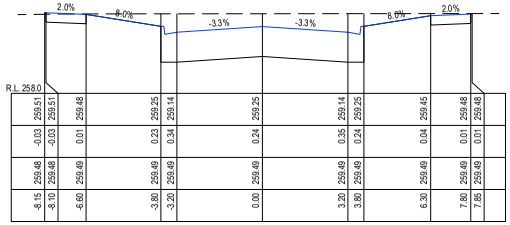

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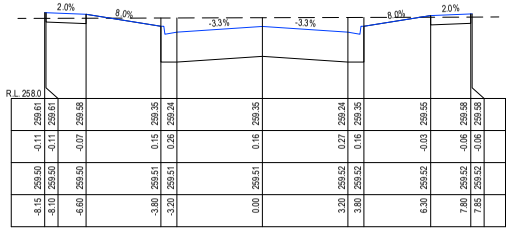

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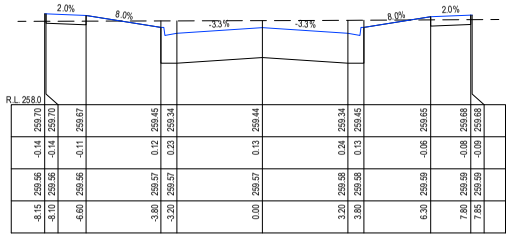

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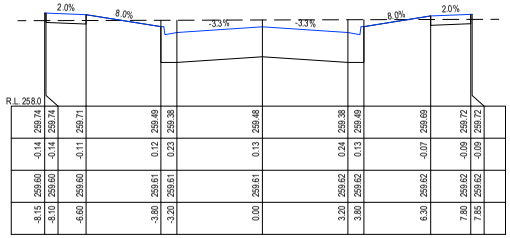

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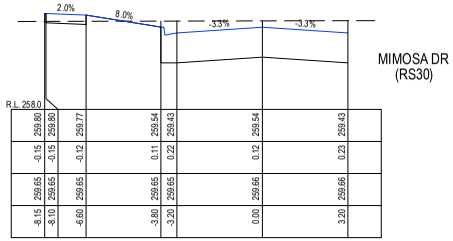

CH 82.75

NOTE:

DENOTES STRUCTURAL FILL (REFER PAVEMENT NOTES)

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
HOPBUSH ST (RS17) CROSS SECTIONS (1/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R16 / 34
REV: A

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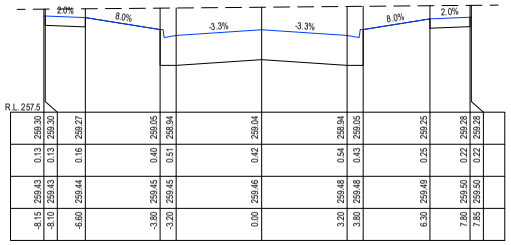

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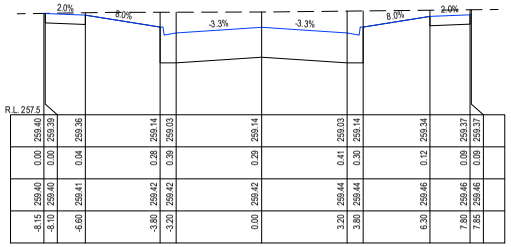

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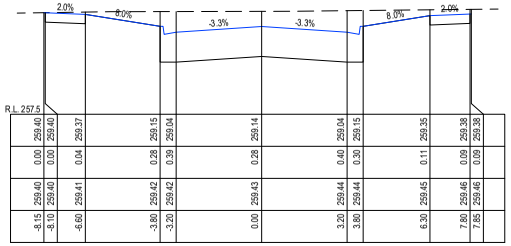
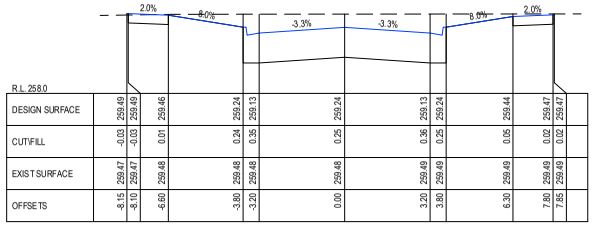


CH 126.75



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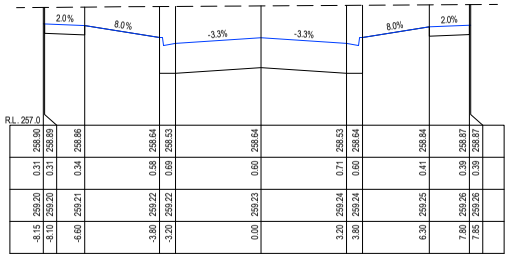

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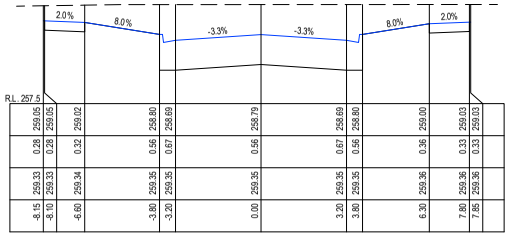

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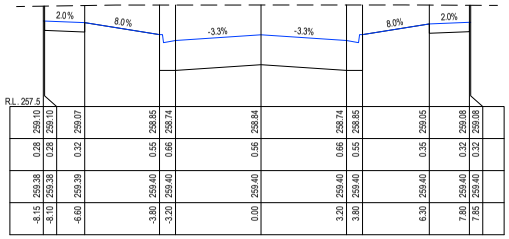

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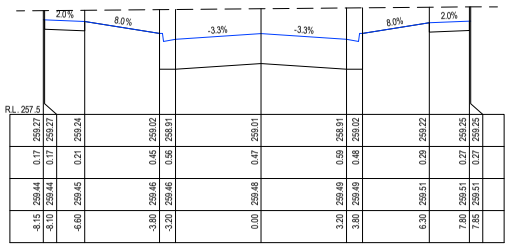

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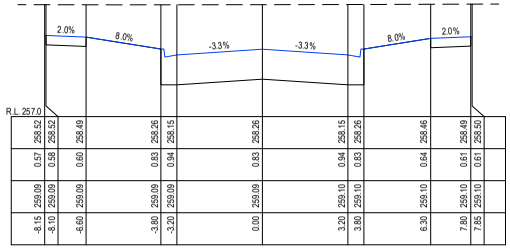

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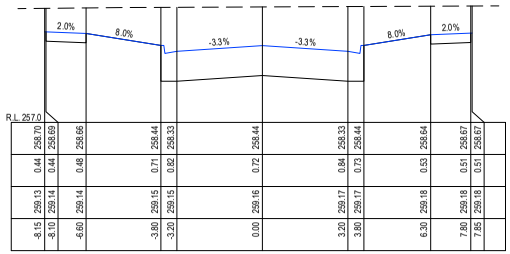

CH 170

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
HOPBUSH ST (RS17) CROSS SECTIONS (2/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R17 / 34
REV: A

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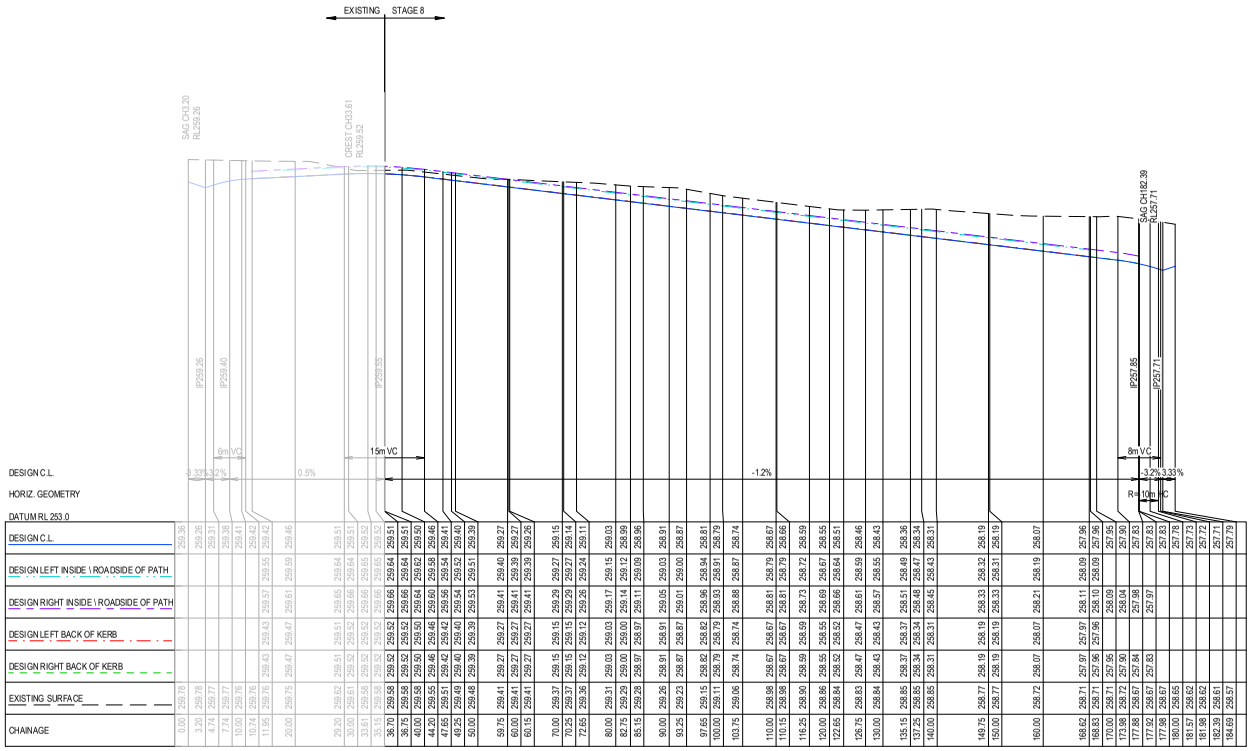
PLOT DATE: 18/05/2021 FILE: C:\12D\DATA\TOMKBGO-12DS01\S148808 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_91\ENGINEERING DESIGN\CAD\STAGE 8\S148808 S8 R&D REV A.DWG



CHAINAGE	DESIGN C.L.	DESIGN LEFT INSIDE \ ROADSIDE OF PATH	DESIGN RIGHT INSIDE \ ROADSIDE OF PATH	DESIGN LEFT BACK OF KERB	DESIGN RIGHT BACK OF KERB	EXISTING SURFACE
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3.20	259.26					259.78
4.74	259.31					259.77
7.74	259.38					259.77
10.00	259.41					259.76
10.74	259.42					259.76
11.95	259.42	259.55	259.57	259.43	259.43	259.76
20.00	259.46	259.59	259.61	259.47	259.47	259.75
29.20	259.51	259.64	259.65	259.51	259.51	259.62
30.00	259.51	259.64	259.66	259.52	259.52	259.61
33.61	259.52	259.65	259.66	259.52	259.52	259.58
35.61	259.52	259.65	259.67	259.52	259.52	259.58
36.70	259.51	259.64	259.66	259.52	259.52	259.58
38.75	259.51	259.64	259.66	259.52	259.52	259.58
40.00	259.50	259.63	259.64	259.52	259.52	259.58
45.65	259.46	259.60	259.61	259.48	259.48	259.48
48.25	259.45	259.56	259.58	259.45	259.45	259.51
50.00	259.41	259.54	259.56	259.42	259.42	259.48
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70.00	259.15	259.29	259.29	259.15	259.15	259.37
70.25	259.14	259.27	259.29	259.15	259.15	259.37
72.65	259.11	259.24	259.26	259.12	259.12	259.36
80.00	259.03	259.17	259.19	259.03	259.03	259.31
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90.00	258.91	259.03	259.05	258.91	258.91	259.26
93.25	258.87	258.91	259.01	258.87	258.87	259.23
97.65	258.81	258.94	258.96	258.82	258.82	259.15
100.00	258.79	258.91	258.93	258.79	258.79	259.11
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173.98	257.90	258.04			257.90	258.72
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177.92	257.83	257.97			257.83	258.67
177.98	257.83					258.67
180.00	257.78					258.65
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181.98	257.72					258.62
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184.68	257.79					258.57

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
BLACKWOOD PL (RS18) LONG SECTION
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R18 / 34
REV: A

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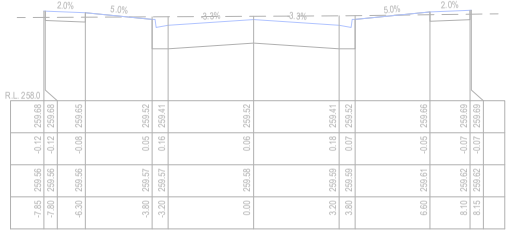

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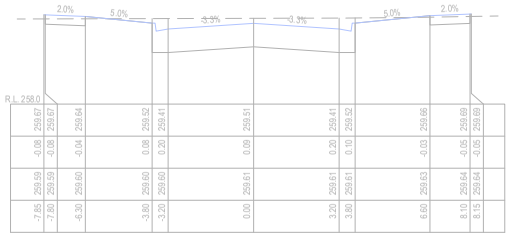

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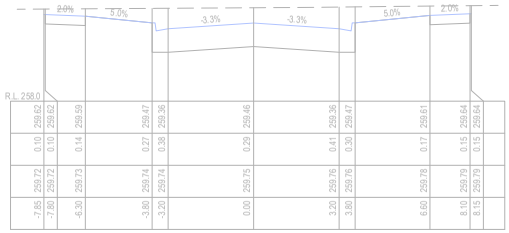

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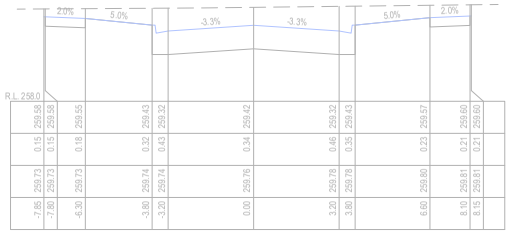

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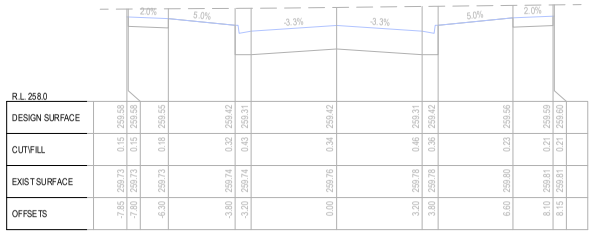

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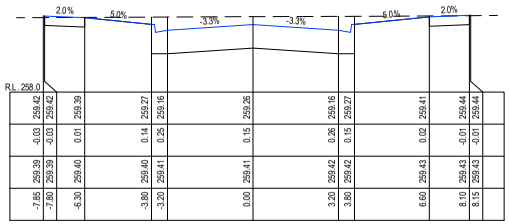

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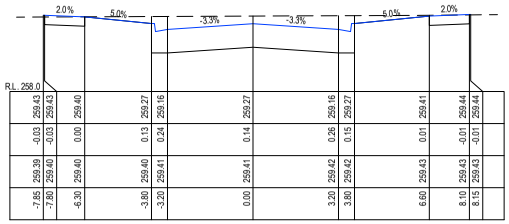

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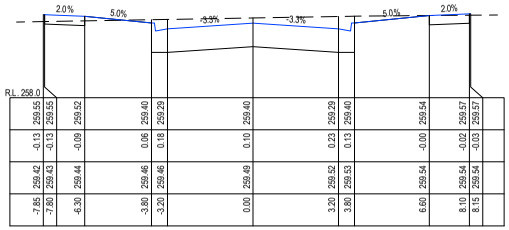

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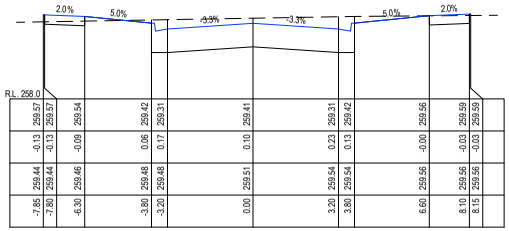

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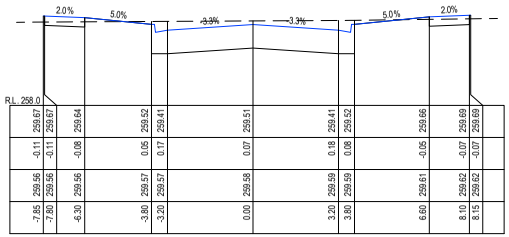

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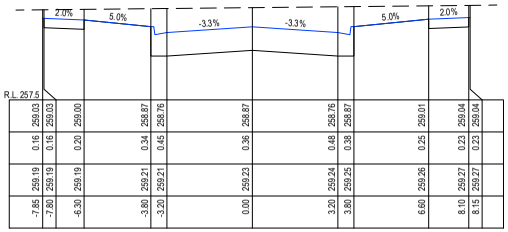

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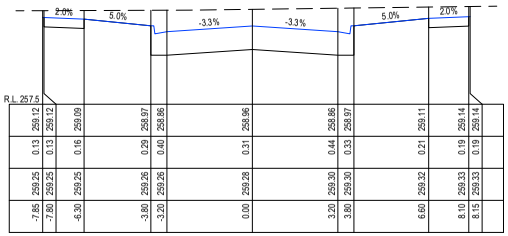

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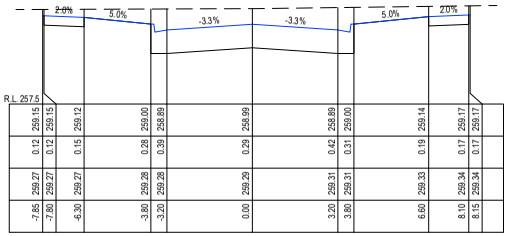

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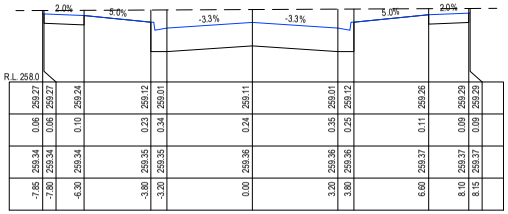

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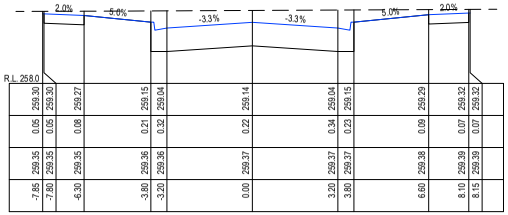

CH 70.25

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BLACKWOOD PL (RS18) CROSS SECTIONS (1/2)
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THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R19 / 34
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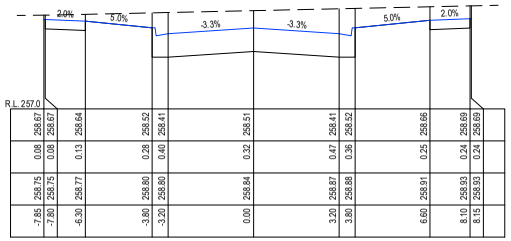

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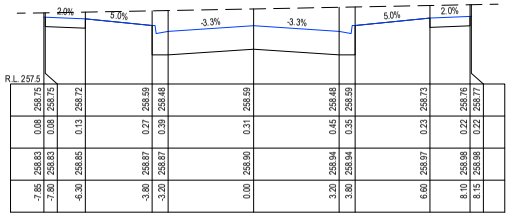

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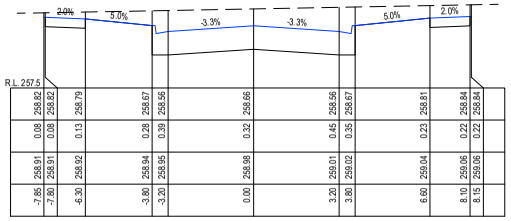

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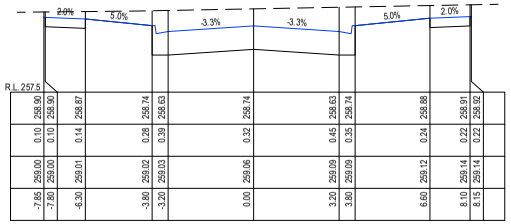

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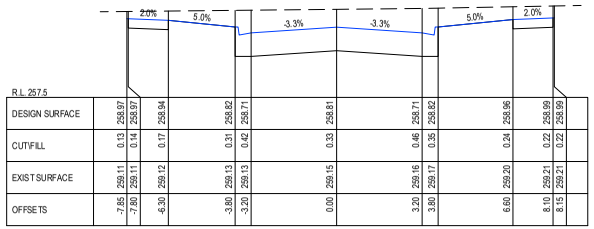

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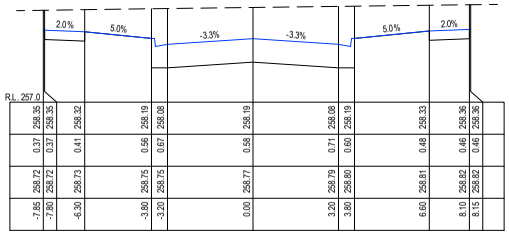

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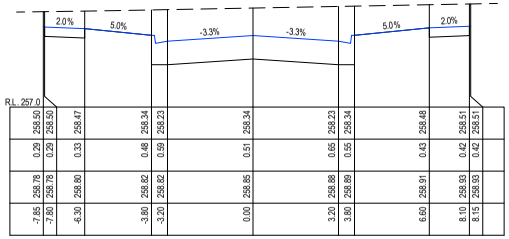

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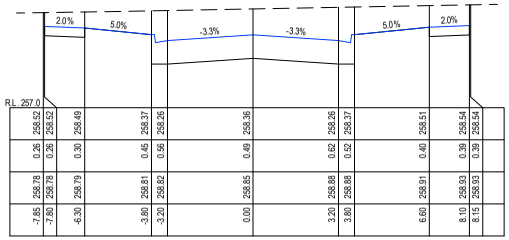

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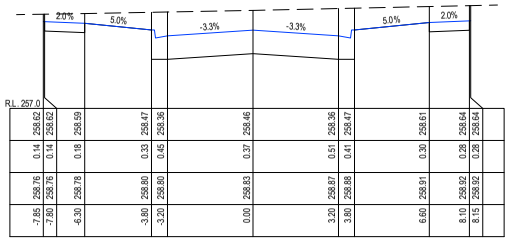

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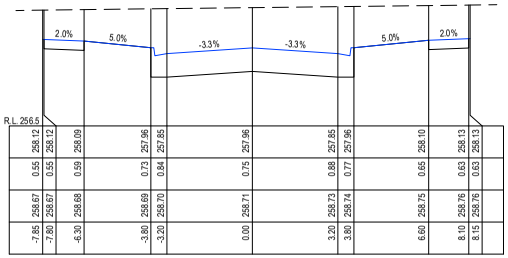
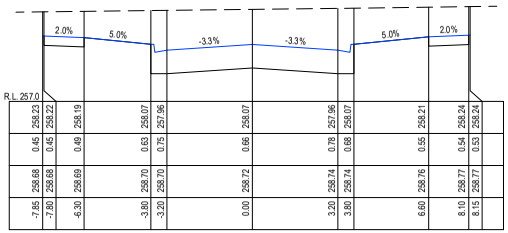


CH 168.83



CH 160

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE

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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
BLACKWOOD PL (RS18) CROSS SECTIONS (2/2)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R20 / 34
REV: A

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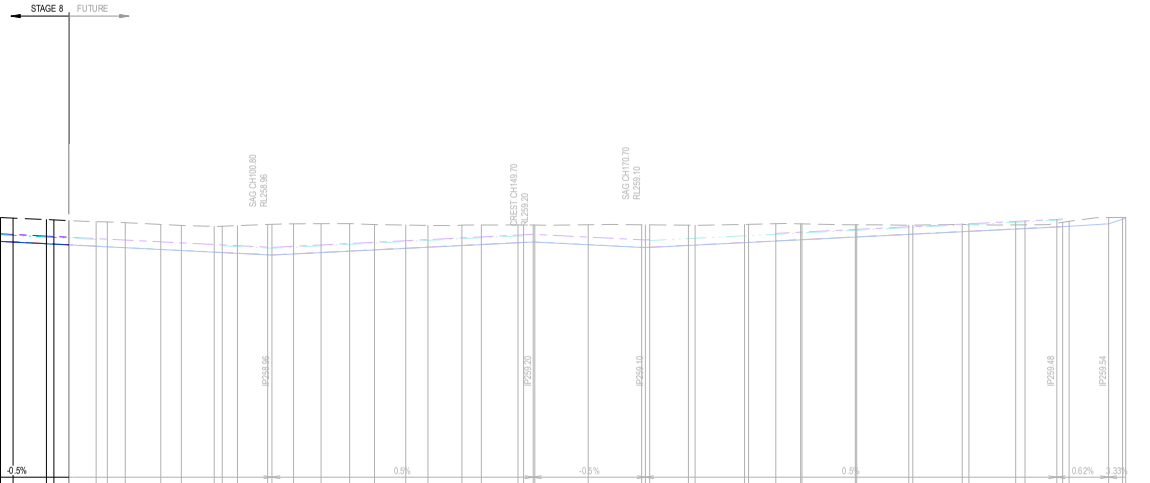
PLOT DATE: 18/05/2021 FILE: C:\12D\DATA\TOMKBGO-12DS01\S1488 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_91\ENGINEERING DESIGN\CAD\STAGE 8\S1488 S8 R&D REV A.DWG



CHAINAGE	EXISTING SURFACE	DESIGN RIGHT BACK OF KERB	DESIGN LEFT BACK OF KERB	DESIGN RIGHT INSIDE \ ROADSIDE OF PATH	DESIGN LEFT INSIDE \ ROADSIDE OF PATH	DESIGN C.L.
0.00	259.69					259.59
2.53	259.70					259.49
3.25	259.70					259.48
5.35	259.70					259.44
7.25	259.70					259.42
10.00	259.71					259.41
11.60	259.71	259.41	259.41	259.55	259.53	259.40
20.00	259.71	259.36	259.36	259.50	259.49	259.36
20.85	259.71	259.36	259.36	259.50	259.49	259.36
21.10	259.71	259.36	259.36	259.50	259.48	259.36
30.00	259.71	259.31	259.31	259.45	259.44	259.31
31.35	259.71	259.31	259.31	259.45	259.43	259.30
33.60	259.70	259.30	259.30	259.45	259.42	259.29
40.00	259.69	259.26	259.26	259.40	259.39	259.26
41.85	259.69	259.26	259.26	259.40	259.38	259.25
46.10	259.68	259.23	259.23	259.37	259.36	259.23
50.00	259.66	259.21	259.21	259.35	259.34	259.21
52.35	259.65	259.20	259.20	259.34	259.33	259.20
58.60	259.62	259.17	259.17	259.31	259.30	259.17
60.00	259.61	259.16	259.16	259.30	259.29	259.16
62.85	259.60	259.15	259.15	259.29	259.28	259.15
67.90	259.58	259.13		259.27		259.12
70.00	259.58	259.11		259.25		259.11
73.35	259.56	259.10		259.24		259.09
80.00	259.53	259.06		259.20		259.06
83.85	259.51	259.05		259.19		259.04
90.00	259.49	259.01		259.15		259.01
91.50	259.50	259.01		259.15	259.13	259.00
94.35	259.51	258.99		259.13	259.12	258.99
100.00	259.53	258.96	258.96	259.10	259.09	258.96
100.80	259.53	258.96	258.96	259.10	259.09	258.96
104.85	259.54	258.98	258.98	259.12	259.11	258.98
110.00	259.54	259.01	259.01	259.15	259.13	259.00
115.35	259.55	259.03	259.03	259.17	259.16	259.03
120.00	259.53	259.06	259.06	259.20	259.18	259.05
125.85	259.52	259.09	259.09	259.23	259.21	259.08
130.00	259.51	259.11	259.11	259.25	259.23	259.10
136.35	259.52	259.14	259.14	259.28	259.26	259.13
140.00	259.52	259.16	259.16	259.30	259.28	259.15
146.85	259.52	259.19	259.19	259.33	259.32	259.19
147.90	259.52	259.20		259.34		259.19
149.70	259.52	259.21		259.35		259.20
150.00	259.52	259.20		259.34		259.20
160.00	259.52	259.15		259.29		259.15
170.00	259.52	259.10		259.24		259.10
170.70	259.52	259.10		259.24		259.10
171.50	259.52	259.10		259.24		259.10
176.75	259.52					259.14
180.00	259.52					259.14
185.25	259.53		259.19		259.32	259.19
190.00	259.53		259.20		259.32	259.19
195.10	259.54		259.22		259.35	259.22
199.75	259.54	259.25	259.25	259.39	259.37	259.24
200.00	259.54	259.25	259.25	259.39	259.37	259.24
210.00	259.52	259.30	259.30	259.44	259.42	259.29
210.25	259.52	259.30	259.30	259.44	259.42	259.29
220.00	259.52	259.35	259.35	259.49	259.47	259.34
220.75	259.52	259.35	259.35	259.49	259.48	259.35
230.00	259.53	259.40	259.40	259.54	259.52	259.39
231.25	259.53	259.40	259.40	259.54	259.53	259.40
240.00	259.52	259.45	259.45	259.59	259.57	259.44
241.75	259.52	259.46	259.46	259.60	259.58	259.45
247.70	259.55	259.49	259.49	259.63	259.61	259.48
248.80	259.57					259.49
250.00	259.59					259.50
257.40	259.66					259.54
260.00	259.66					259.63
260.60	259.66					259.65

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
MIMOSA DR (RS30) LONG SECTION
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R21 / 34
REV: A

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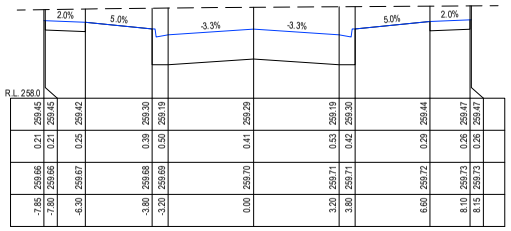
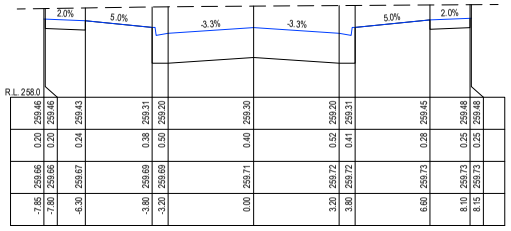
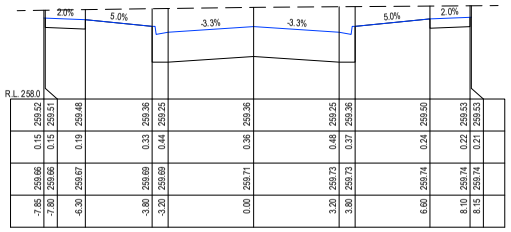


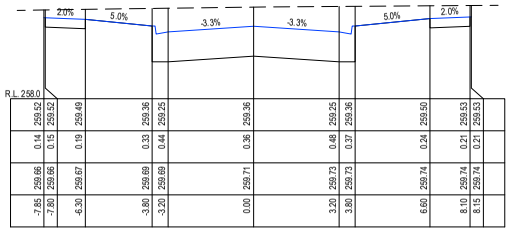
CH 33.6



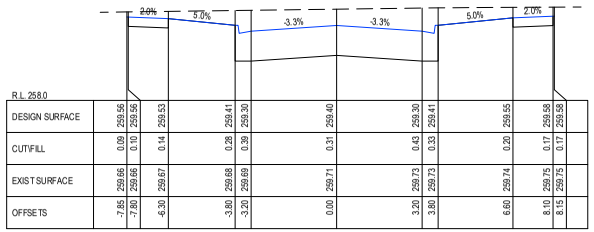
CH 31.35



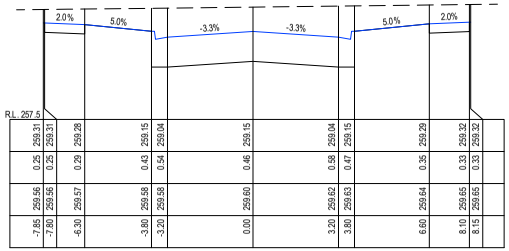
CH 21.1



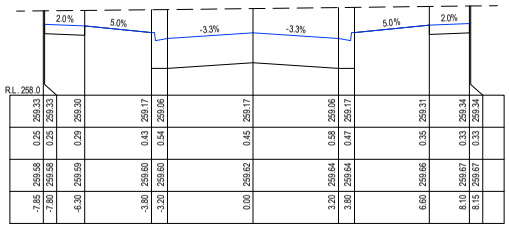
CH 20.85



CH 11.8



CH 62.85



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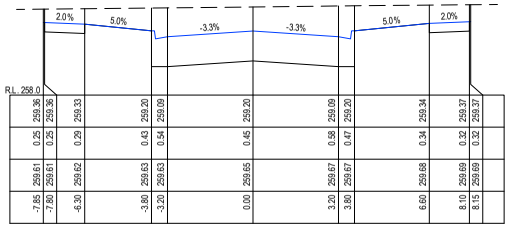
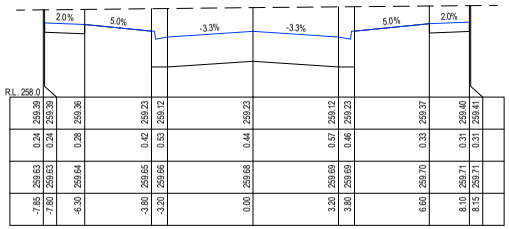
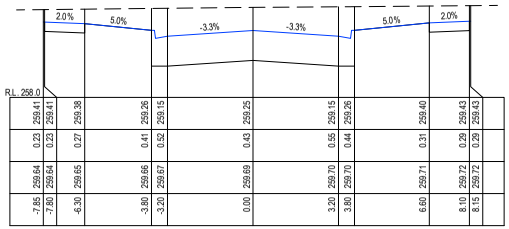


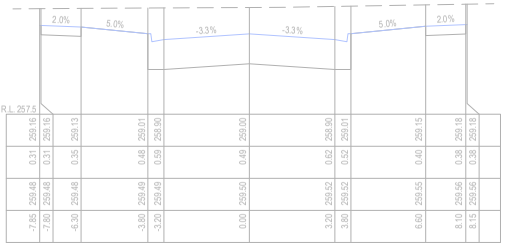
CH 52.35



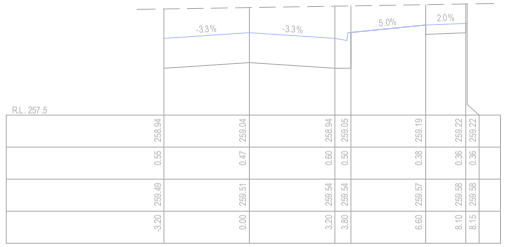
CH 46.1



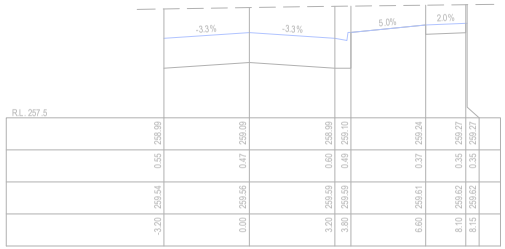
CH 41.85



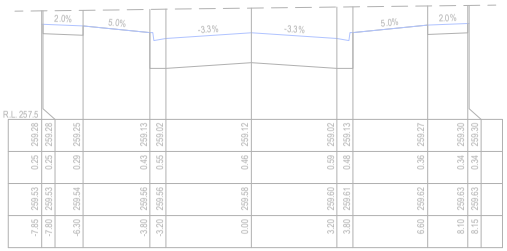
CH 91.5



CH 83.85



CH 73.35



CH 67.9

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
MIMOSA DR (RS30) CROSS SECTIONS
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R22 / 34
REV: A

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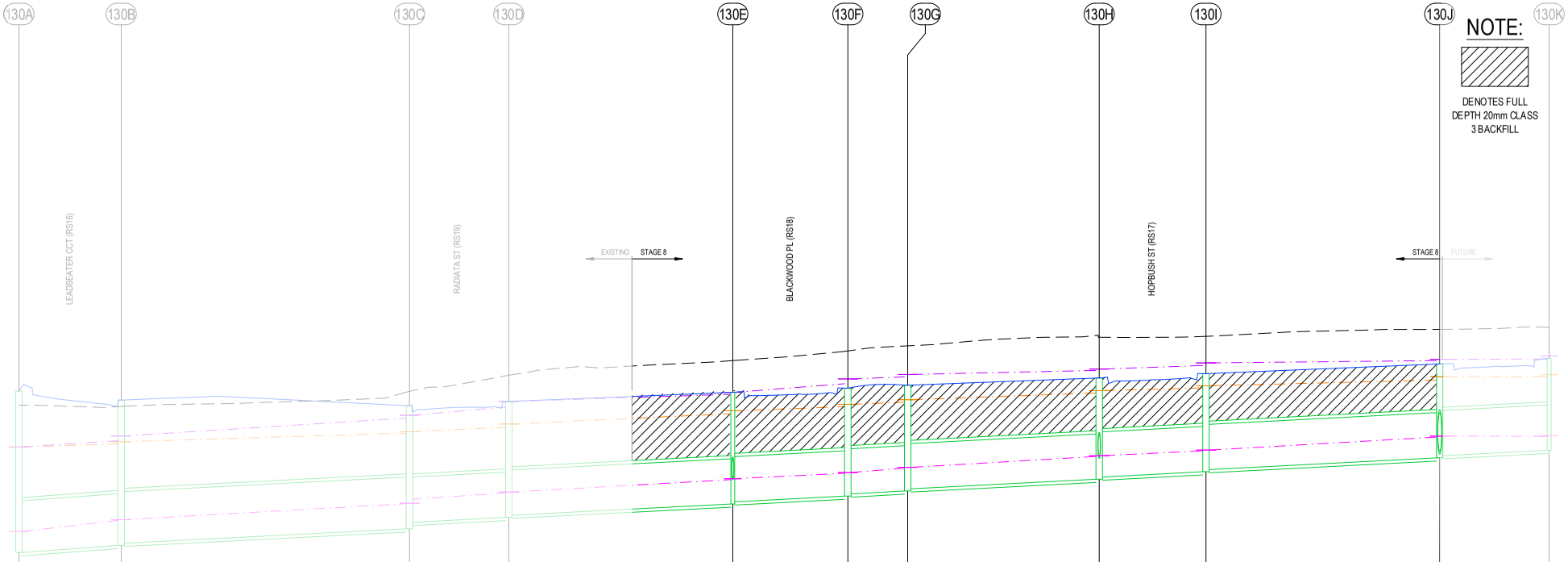

	130A	130B	130C	130D	130E	130F	130G	130H	130I	130J	130K
1% AEP DESIGN FLOW (l/s)	3036	3071	2667	2670	2357	2345	2340	1993	1966	466	
5% AEP DESIGN FLOW (l/s)	2098	2127	1847	1853	1634	1625	1619	1378	1357	323	
5% AEP CAPACITY (l/s)	3263	2758	1932	1932	1932	1932	1932	1932	1932	1932	
5% AEP VELOCITY (m/s)	3.06	2.69	2.54	2.54	2.5	2.5	2.5	2.42	2.41	1.65	
20% AEP DESIGN FLOW (l/s)	1138	1152	1002	1004	887	882	880	751	741	184	
20% AEP CAPACITY (l/s)	3263	2758	1932	1932	1932	1932	1932	1932	1932	1932	
20% AEP VELOCITY (m/s)	2.63	2.33	2.26	2.25	2.18	2.18	2.18	2.09	2.08	1.41	
PIPE DIAMETER (mm)	1200Ø RCP CL2 RRJ	1200Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	1050Ø RCP CL2 RRJ	
PIPE GRADE	1:143 (0.70%)	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	
DATUM RL	245.0										
DEPTH TO INVERT	3.82 / 3.75 / 3.75	3.37 / 3.32	2.86 / 2.71	2.89 / 2.84	2.59 / 2.54	2.50 / 2.45	2.45 / 2.40	2.35 / 2.30	2.28 / 2.23	2.18 / 2.13	2.13
H.G.L.	254.54	254.80 / 254.81	255.18 / 255.19 / 255.29	255.43 / 255.45	255.74 / 255.76	255.89 / 255.91	256.01 / 256.03	256.28 / 256.30	256.41 / 256.43	256.73 / 256.75	256.76
INVERT LEVEL	253.98 / 254.05 / 254.05	254.22 / 254.27	254.60 / 254.75	254.87 / 254.92	255.18 / 255.23	255.36 / 255.41	255.48 / 255.53	255.75 / 255.80	255.93 / 255.98	256.25 / 256.30	256.42
DESIGN SURFACE	257.80	257.59	257.46	257.56	257.77	257.86	257.93	258.10	258.20	258.43	258.56
CHAINAGE	0.00	23.76 / 23.76	90.73	113.78	165.81	192.53	206.44	250.92	275.72	330.02	355.43

A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21
REV	REVISION	DES	DWG	CHK	DATE

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
DRAINAGE LONG SECTIONS (1/4)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R23 / 34
REV: A

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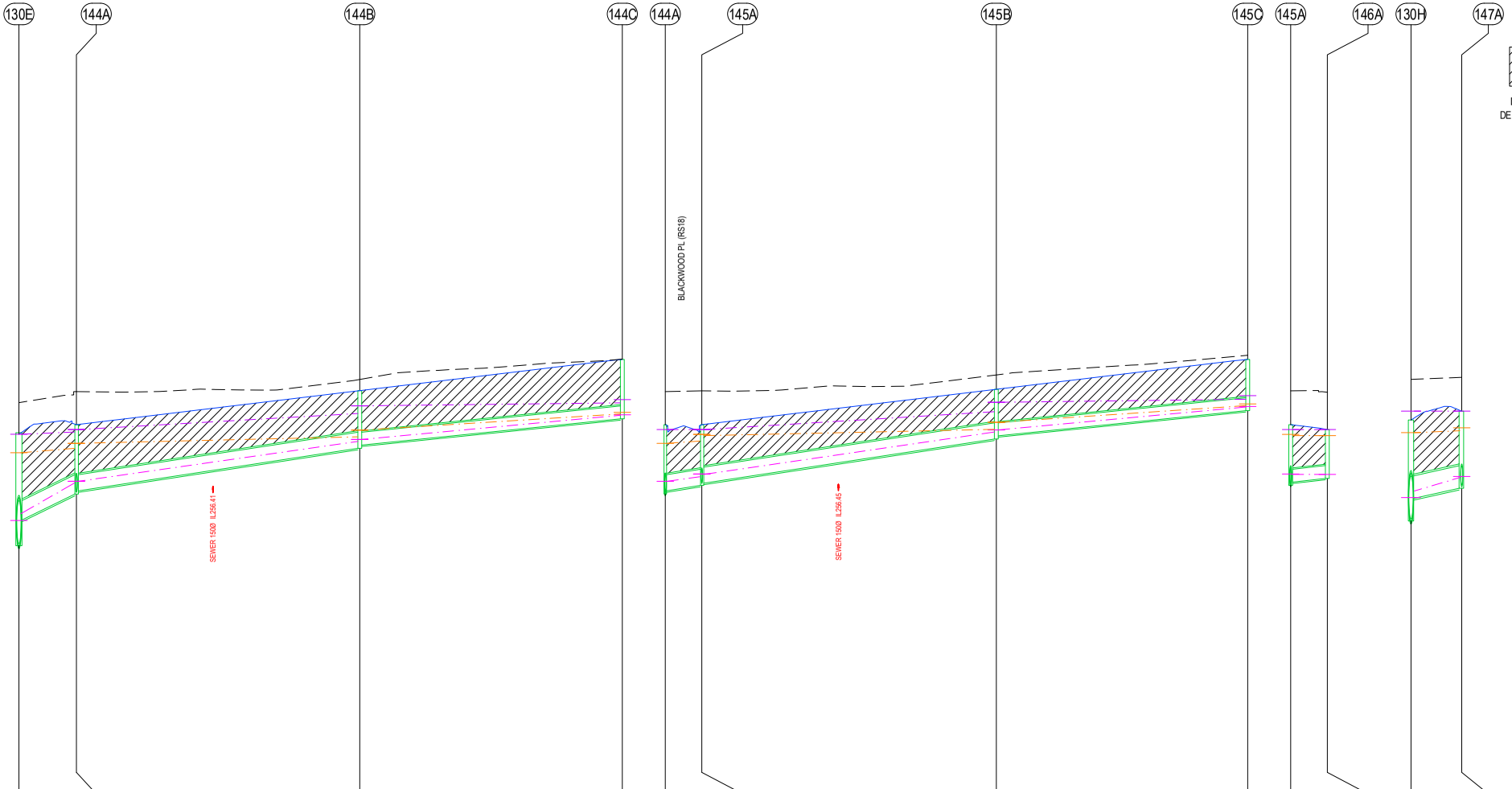
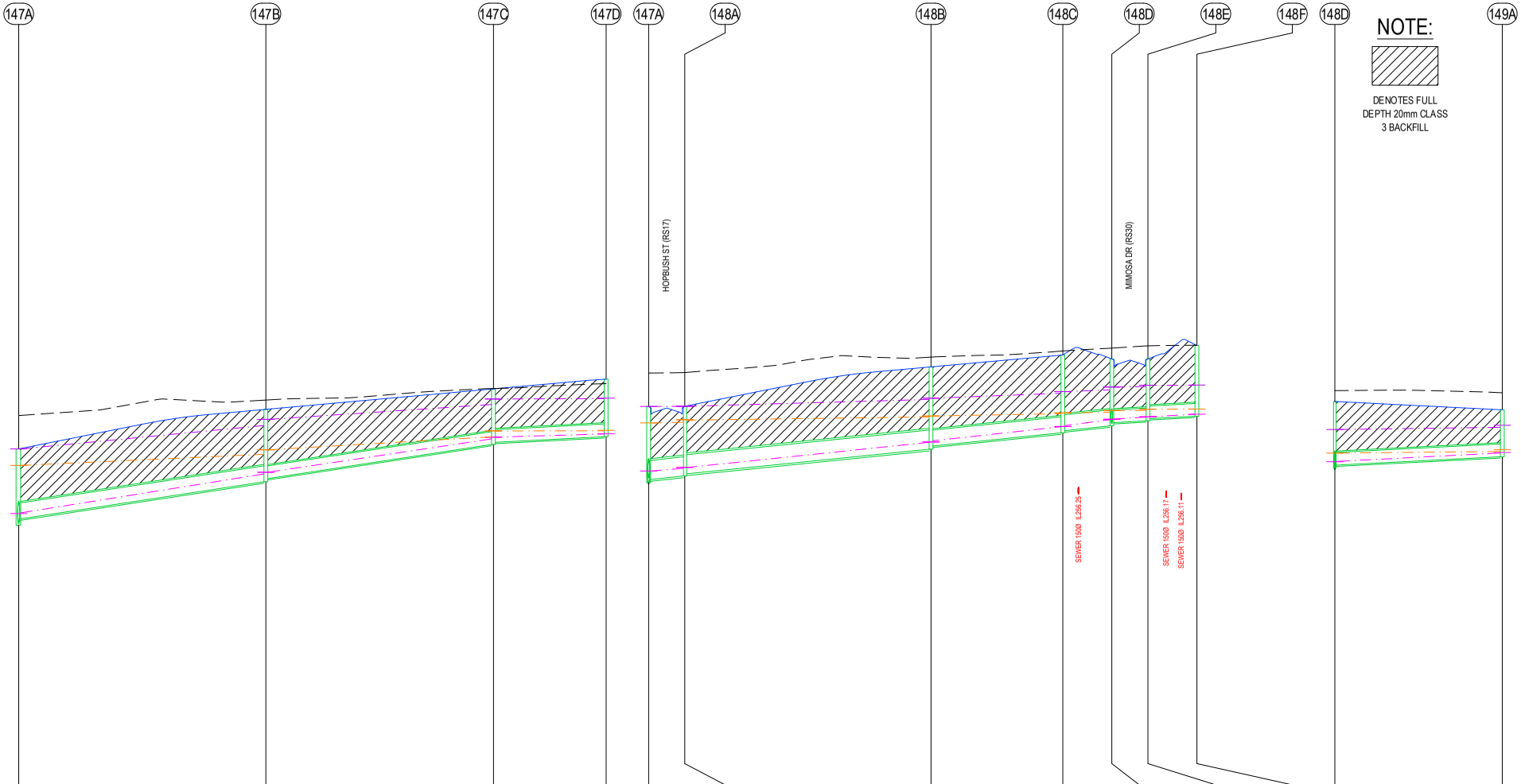


NOTE:

DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL

| | | |



	147A		147B		147C		147D
1% AEP DESIGN FLOW (l/s)		171		78		19	
5% AEP DESIGN FLOW (l/s)		118		54		13	
5% AEP CAPACITY (l/s)		215		118		68	
5% AEP VELOCITY (m/s)		1.99		1.64		0.74	
20% AEP DESIGN FLOW (l/s)		64		29		7	
20% AEP CAPACITY (l/s)		215		118		68	
20% AEP VELOCITY (m/s)		1.69		1.39		0.62	
PIPE DIAMETER (mm)		375Ø RCP CL2 RRJ		300Ø RCP CL2 RRJ		300Ø RCP CL2 RRJ	
PIPE GRADE		1:66.7 (1.50%)		1:66.7 (1.50%)		1:200 (0.50%)	
DATUM RL	247.0						
DEPTH TO INVERT	1.80	1.65	1.70	1.63	1.31	1.26	1.35
H.G.L.	256.76	256.79 256.80	257.72	257.76	258.54	258.58	258.66
INVERT LEVEL	256.51	256.66	257.53	257.61	258.41	258.46	258.60
DESIGN SURFACE	258.31		259.24		259.72		259.95
CHAINAGE	11.80	58.15	69.95	53.55	123.50	26.50	150.00

	147A	148A		148B		148C		148D		148E		148F	148D		149A
1% AEP DESIGN FLOW (l/s)		179		150		107		105		34		9		35	
5% AEP DESIGN FLOW (l/s)		123		103		74		72		23		7		24	
5% AEP CAPACITY (l/s)		285		285		175		175		68		68		68	
5% AEP VELOCITY (m/s)		1.73		1.65		1.52		1.51		0.87		0.61		0.88	
20% AEP DESIGN FLOW (l/s)		67		56		40		39		13		4		13	
20% AEP CAPACITY (l/s)		285		285		175		175		68		68		68	
20% AEP VELOCITY (m/s)		1.46		1.39		1.29		1.28		0.74		0.51		0.75	
PIPE DIAMETER (mm)		450Ø RCP CL2 RRJ		450Ø RCP CL2 RRJ		375Ø RCP CL2 RRJ		375Ø RCP CL2 RRJ		300Ø RCP CL2 RRJ		300Ø RCP CL2 RRJ		300Ø RCP CL2 RRJ	
PIPE GRADE		1:100 (1.00%)		1:100 (1.00%)		1:100 (1.00%)		1:100 (1.00%)		1:200 (0.50%)		1:200 (0.50%)		1:200 (0.50%)	
DATUM RL	246.0												247.0		
DEPTH TO INVERT	1.80	1.72	1.64	1.59	1.94	1.86	1.83	1.78	1.57	1.50	1.46	1.41	1.66	1.57	1.50	1.10
H.G.L.	256.76	256.79	256.86	256.87	257.46	257.47 257.50	257.83	257.84 257.86	257.99	258.01	258.06	258.07	258.12	257.99	258.01 258.01	258.21 258.22
INVERT LEVEL	256.51	256.59	256.67	256.72	257.30	257.38	257.69	257.74	257.85	257.93	257.97	258.02	258.08	257.85	257.93	258.12
DESIGN SURFACE	258.31		258.31		259.24		259.52		259.43		259.43		259.74	259.43		259.23
CHAINAGE	0.00	8.50	8.50	57.94	66.44	31.00	97.44	11.53	108.97	8.50	117.47	11.53	128.99	0.00	39.40	39.40

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
DRAINAGE LONG SECTIONS (3/4)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R25 / 34
REV: A

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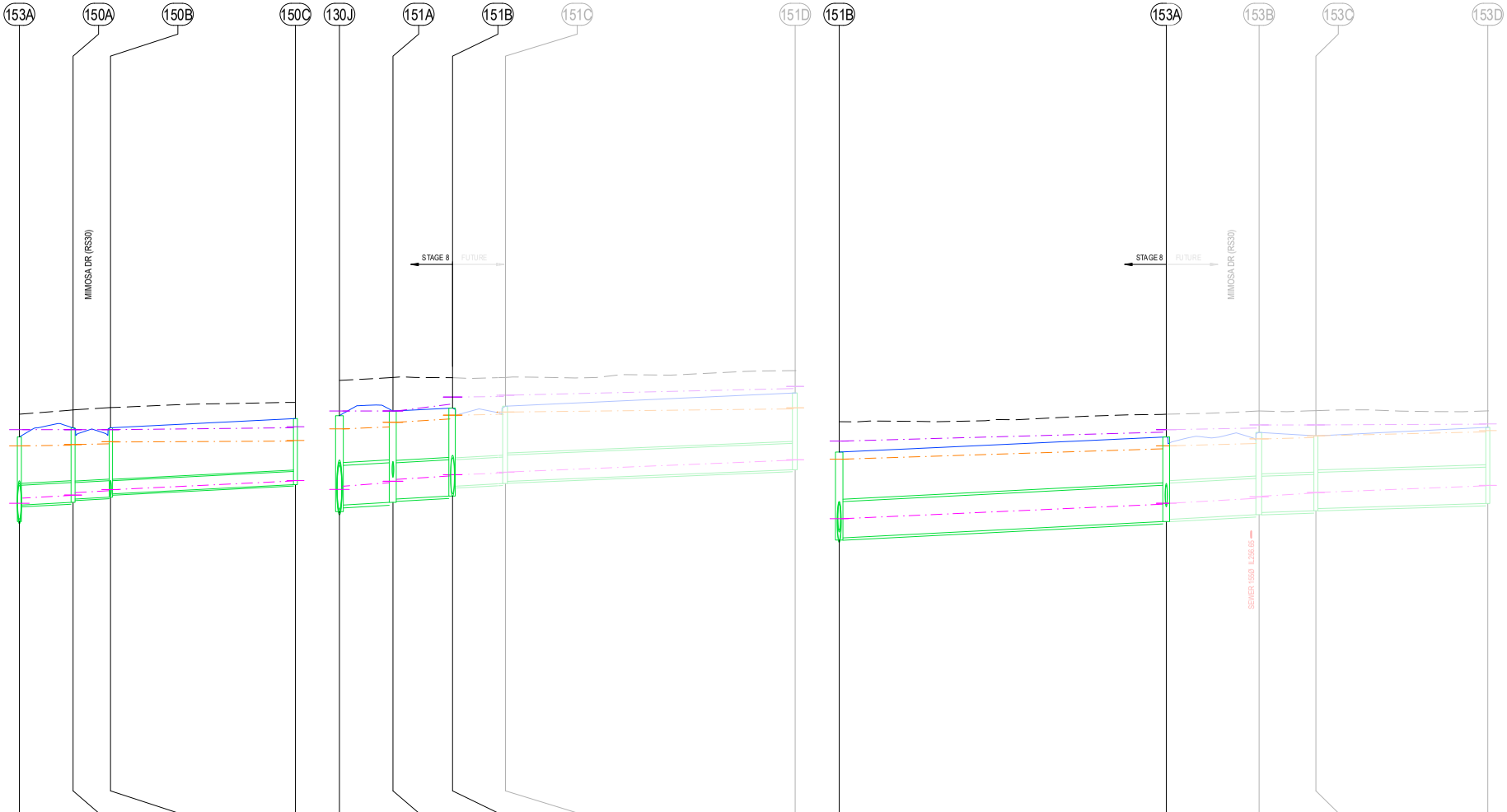
PLOT DATE: 18/05/2021 FILE: C:\12D\DATA\TOMKBGO-12DS01\S1488 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_91\ENGINEERING DESIGN\CAD\STAGE 8\S1488 S8 R&D REV A.DWG



NOTE:

DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL

	153A	150A	150B	150C
1% AEP DESIGN FLOW (l/s)	142	108	31	
5% AEP DESIGN FLOW (l/s)	98	75	22	
5% AEP CAPACITY (l/s)	202	124	68	
5% AEP VELOCITY (m/s)	1.26	1.17	0.86	
20% AEP DESIGN FLOW (l/s)	53	40	12	
20% AEP CAPACITY (l/s)	202	124	68	
20% AEP VELOCITY (m/s)	1.07	1	0.72	
PIPE DIAMETER (mm)	450Ø RCP CL2 RRJ	375Ø RCP CL2 RRJ	300Ø RCP CL2 RRJ	
PIPE GRADE	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	
DATUM RL	247.0			
DEPTH TO INVERT	1.92 / 1.55	1.69 / 1.62	1.58 / 1.50	1.50
H.G.L.	257.42 / 257.44 / 257.55	257.62 / 257.62 / 257.68	257.72 / 257.75	257.94 / 257.95
INVERT LEVEL	257.02 / 257.40	257.46 / 257.53	257.58 / 257.65	257.86
DESIGN SURFACE	258.94	259.15	259.15	259.36
CHAINAGE	0.00	12.20 / 12.20	8.51 / 20.71	42.00 / 62.71

	130J	151A	151B	151C	151D
1% AEP DESIGN FLOW (l/s)	1574	1557	371	294	
5% AEP DESIGN FLOW (l/s)	1086	1074	256	203	
5% AEP CAPACITY (l/s)	1281	1015	434	388	
5% AEP VELOCITY (m/s)	2.26	2.14	1.6	1.39	
20% AEP DESIGN FLOW (l/s)	587	580	138	110	
20% AEP CAPACITY (l/s)	1281	1015	434	388	
20% AEP VELOCITY (m/s)	1.97	1.96	1.36	1.18	
PIPE DIAMETER (mm)	900Ø RCP CL2 RRJ	825Ø RCP CL2 RRJ	600Ø RCP CL2 RRJ	600Ø RCP CL2 RRJ	
PIPE GRADE	1:200 (0.50%)	1:200 (0.50%)	1:200 (0.50%)	1:250 (0.40%)	
DATUM RL	246.0				
DEPTH TO INVERT	2.18 / 2.03	2.08 / 2.00	2.00 / 1.76	1.76 / 1.71	1.75 / 1.70
H.G.L.	258.73 / 258.75 / 258.82	258.91 / 258.94 / 258.98	257.06 / 257.10	257.12 / 257.14	257.42 / 257.42 / 257.45
INVERT LEVEL	256.25 / 256.40	256.46 / 256.53	256.60 / 256.55	256.89 / 256.94	257.20 / 257.25
DESIGN SURFACE	258.43	258.53	258.60	258.64	258.94
CHAINAGE	0.00 / 12.15	12.15 / 13.54	25.69 / 12.02	37.72 / 65.80	103.52

	151B	153A	153B	153C	153D
1% AEP DESIGN FLOW (l/s)	1175	1054	1041	1004	
5% AEP DESIGN FLOW (l/s)	810	726	717	692	
5% AEP CAPACITY (l/s)	1015	1015	787	787	
5% AEP VELOCITY (m/s)	2.11	2.06	1.67	1.66	
20% AEP DESIGN FLOW (l/s)	438	393	388	375	
20% AEP CAPACITY (l/s)	1015	1015	787	787	
20% AEP VELOCITY (m/s)	1.83	1.78	1.47	1.45	
PIPE DIAMETER (mm)	825Ø RCP CL2 RRJ	825Ø RCP CL2 RRJ	825Ø RCP CL2 RRJ	825Ø RCP CL2 RRJ	
PIPE GRADE	1:200 (0.50%)	1:200 (0.50%)	1:333 (0.30%)	1:333 (0.30%)	
DATUM RL	247.0				
DEPTH TO INVERT	2.00 / 1.95	1.92 / 1.91	1.87 / 1.82	1.70 / 1.65	1.73 / 1.68
H.G.L.	257.06 / 257.09	257.42 / 257.44	257.56 / 257.59 / 257.63	257.67 / 257.69	257.83 / 257.84
INVERT LEVEL	256.60 / 256.65	257.02 / 257.01	257.18 / 257.23	257.27 / 257.32	257.43 / 257.48
DESIGN SURFACE	258.60	258.94	259.05	258.97	259.16
CHAINAGE	0.00 / 74.30	74.30 / 21.07	95.37 / 12.90	108.28 / 39.05	147.33

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
DRAINAGE LONG SECTIONS (4/4)
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R26 / 34
REV: A

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PLOT DATE: 18/05/2021 FILE: C:\12D\DATA\TOMKBGO-12DS\TS1488 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_91\ENGINEERING DESIGN\CAD\STAGE 8\S1488 S8 R&D REV A.DWG

PIT SCHEDULE

PIT NAME	TYPE	EASTING	NORTHING	INTERNAL WD	INTERNAL LEN	INLET	INV LEV	OUTLET	INV	PIT	DEPTH	REMARKS
EX130D	*GSEP*	*319331.98*	*5849834.25*	*900*	*1500*	*1050*	*254.92*	*1050*	*254.87*	*257.56*	*2.69*	*2400 EKI SAG REFER TYPICAL DETAILS*
130E	GSEP	319318.57	5849884.52	1200	900	1050 450	255.23 255.78	1050	255.18	257.77	2.59	EDCM601+607
130F	GSEP	319311.54	5849910.31	900	1500	1050	255.41	1050	255.36	257.86	2.505	EDCM601+607
130G	GSEP	319311.39	5849924.21	900	1500	1050	255.53	1050	255.48	257.93	2.454	2400 EKI SAG REFER TYPICAL DETAILS
130H	GSEP	319316.46	5849968.40	900	1500	1050 525	255.80 256.28	1050	255.75	258.10	2.35	EDCM601+607
130I	GSEP	319319.34	5849993.03	900	1500	1050	255.98	1050	255.93	258.20	2.28	EDCM601+607
130J	GSEP	319325.77	5850046.95	1200	1500	1050 900	256.30 256.40	1050	256.25	258.43	2.18	2400 EKI SAG REFER TYPICAL DETAILS
130K	*GSEP*	*319329.07*	*5850072.14*	*900*	*1500*			*1050*	*256.42*	*258.56*	*2.13*	*EDCM601+607*
144A	GSEP	319327.40	5849894.57	600	900	375 375	256.45 256.45	450	256.38	257.99	1.62	EDCM601
144B	GSEP	319392.95	5849887.48	600	900	300	257.52	375	257.44	258.78	1.34	EDCM601
144C	JP	319453.70	5849880.91	600	900			300	258.13	259.51	1.38	EDCM605
145A	GSEP	319328.32	5849903.03	600	900	375 300	256.63 256.66	375	256.58	257.99	1.41	EDCM601
145B	GSEP	319396.45	5849895.66	600	900	300	257.73	375	257.66	258.82	1.157	EDCM601
145C	JP	319454.61	5849889.36	600	900			300	258.32	259.51	1.192	EDCM605
146A	GSEP	319319.84	5849903.94	600	900			300	256.74	257.88	1.14	EDCM601
147A	GSEP	319325.88	5849975.51	900	900	375 450	256.66 256.59	525	256.51	258.31	1.80	EDCM601+607
147B	GSEP	319383.69	5849969.25	600	900	300	257.61	375	257.53	259.24	1.71	EDCM601
147C	GSEP	319436.93	5849963.49	600	900	300	258.46	300	258.41	259.72	1.31	EDCM601
147D	JP	319463.28	5849960.65	600	900			300	258.60	259.95	1.36	EDCM605
148A	GSEP	319327.00	5849983.94	600	900	450	256.72	450	256.67	258.31	1.64	EDCM601
148B	GSEP	319384.61	5849977.70	600	900	375	257.38	450	257.30	259.24	1.938	EDCM601
148C	GSEP	319415.43	5849974.37	600	900	375	257.74	375	257.69	259.52	1.832	EDCM601
148D	GSEP	319424.41	5849981.60	600	900	300 300	257.93 257.93	375	257.85	259.43	1.57	EDCM601
148E	GSEP	319432.86	5849980.68	600	900	300	258.02	300	257.97	259.43	1.456	EDCM601
148F	GSEP	319440.09	5849971.70	600	900			300	258.08	259.74	1.664	EDCM601
149A	JP	319428.65	5850020.77	600	900			300	258.12	259.23	1.10	EDCM605
150A	GSEP	319430.31	5850036.18	600	900	375	257.53	450	257.46	259.15	1.693	EDCM601
150B	GSEP	319438.72	5850034.87	600	900	300 300	257.65 257.63	375	257.58	259.15	1.58	EDCM601
150C	JP	319434.20	5849993.11	600	900			300	257.86	259.36	1.50	EDCM605
151A	GSEP	319335.16	5850054.67	1200	1500	825 300	256.53 257.06	900	256.46	258.53	2.08	EDCM601+607
151B	GSEP	319348.62	5850053.21	1200	1200	600 825	256.83 256.65	825	256.60	258.60	2.00	EDCM601+607
151C	*GSEP*	*319357.99*	*5850060.75*	*1200*	*900*	*600*	*256.94*	*600*	*256.89*	*258.64*	*1.76*	*EDCM601+607*
153A	GSEP	319422.53	5850045.57	900	1500	825 450	257.07 257.40	825	257.02	258.94	1.92	2400 EKI SAG REFER TYPICAL DETAILS
153B	*GSEP*	*319440.98*	*5850055.75*	*1200*	*1200*	*825*	*257.227*	*825*	*257.18*	*259.05*	*1.87*	*EDCM601+607*

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
PIT SCHEDULE
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R27 / 34
REV: A

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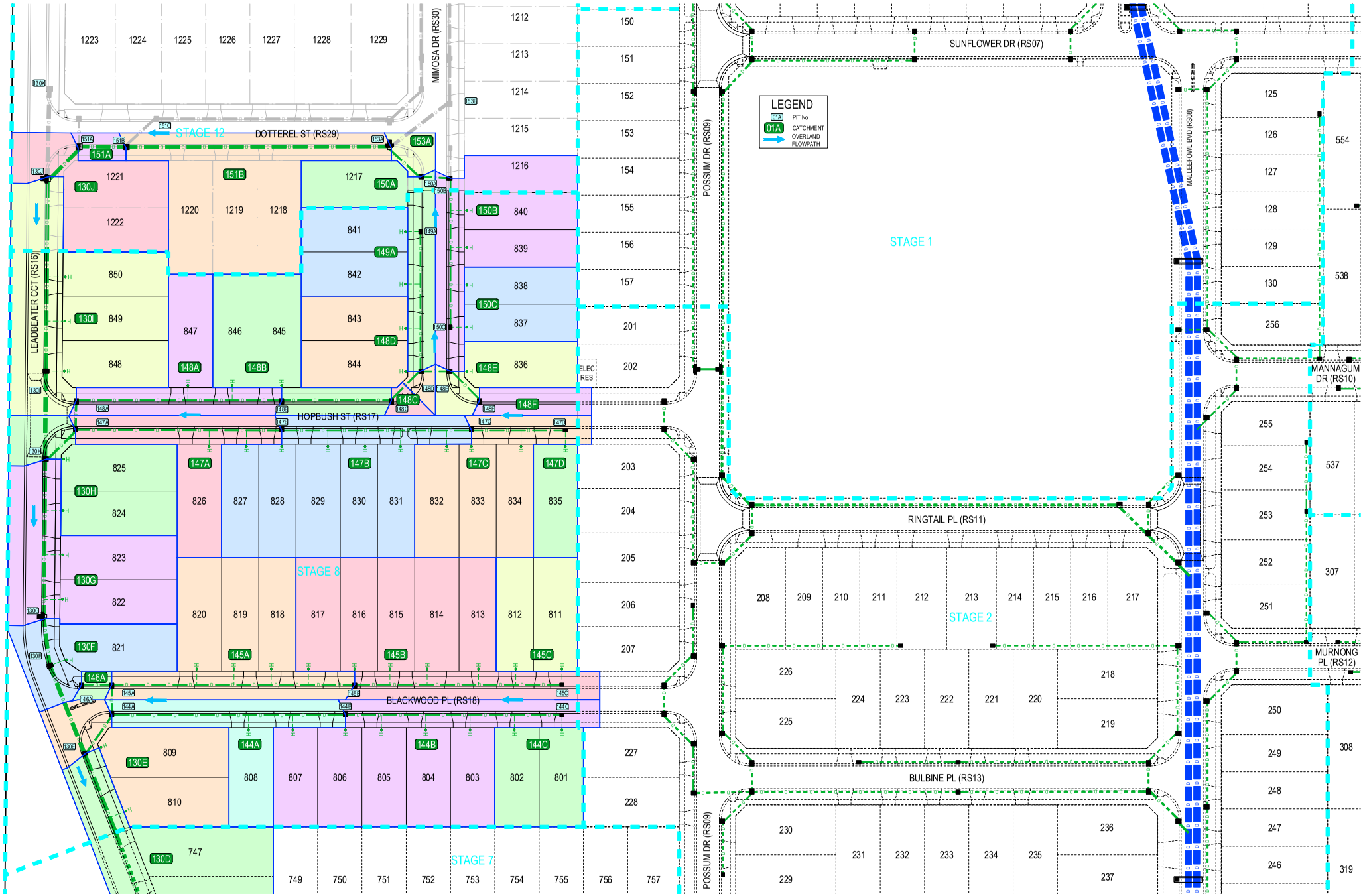

REV	REVISION	DES	DWG	CHK	DATE
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OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
NETWORK CATCHMENTS & 1% AEP FLOWPATHS
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

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PROJECT & DWG No: S148808R28 / 34
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12D MODEL - HYDRAULIC DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 Minor 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Rainfall Method: IFD Table
Freeboard Limit: 0.15 m

Minor 20% AEP Storm Event

Pipe ID (-)	Pipe Type (-)	Pipe Length (m)	Pipe Size (mm)	Full Pipe Area Af (sq.m)	Pipe Grade (%)	Pipe Grade (1 in)	Full-area Tct (min)	Full-area I (mm/hr)	Full-area Sum CA (ha)	Full-area Qc=CIA (L/s)	Part-area Tct (min)	Part-area I (mm/hr)	Part-area Sum CA (ha)	Part-area Qc=CIA (L/s)	Pipe Flow Q (L/s)	Capacity Flow Qcap (L/s)	Q/Qcap Ratio (-)	Full Pipe Vel Vf=Q/Af (m/s)	Norm Depth Vel Vn=Q/An (m/s)	Crit Depth Vel Vc=Q/Ac (m/s)	Capacity Vel Vcap=Qcap/Af (m/s)	US Node Grate RL (m)	Pipe US IL (m)	Pipe DS IL (m)	DS Node Grate RL (m)	Cover Limit (m)	Cover Min (m)	Pipe DS Bend (deg)	Pipe DS Drop (m)	US Node Ku (-)	US Node Kw (-)	Pipe V'head (m)	P'head Loss (Ku.V'head) (m)	WSE Loss (Kw.V'head) (m)	Pipe T'head Loss (m)	US Node HGL (m)	Pipe US HGL (m)	Pipe DS HGL (m)	DS Node HGL (m)	HGL Grade (%)	HGL Grade (1 in)	F'board US (m)
130B to 130A	RCP CL2 RRJ	23.76	1200	1.131	0.70	142.9	14.76	54.09	4.4310	665.7	9.18	68.68	3.8704	738.4	738.4	3263.3	0.23	0.65	2.33	1.84	2.89	257.59	254.22	254.05	257.80	0.75	1.95	0.0	0.050	0.37		0.02	0.01		0.14	254.69	254.68	254.44	254.44	1.01	98.7	2.90
130C to 130B	RCP CL2 RRJ	66.97	1200	1.131	0.50	200.0	14.21	55.47	4.3423	669.1	8.63	70.69	3.7817	742.5	742.5	2758.0	0.27	0.66	2.07	1.84	2.44	257.46	254.60	254.27	257.59	0.75	1.58	-9.7	0.050			0.02			0.33	255.06	255.06	254.69	254.69	0.56	179.4	2.40
130D to 130C	RCP CL2 RRJ	23.05	1050	0.866	0.50	200.0	14.01	55.95	4.3020	668.6	8.43	71.40	3.7414	742.0	742.0	1931.7	0.38	0.86	2.08	1.91	2.23	257.56	254.87	254.75	257.46	0.75	1.41	-12.9	0.150	0.38		0.04	0.01		0.11	255.36	255.35	255.20	255.06	0.64	157.2	2.19
130E to 130D	RCP CL2 RRJ	52.03	1050	0.866	0.50	200.0	13.58	57.02	4.1987	665.0	8.07	72.75	3.6510	737.8	737.8	1931.7	0.38	0.85	2.08	1.90	2.23	257.77	255.18	254.92	257.56	0.75	1.47	-8.2	0.050	0.34		0.04	0.01		0.26	255.67	255.66	255.37	255.36	0.56	178.5	2.10
130F to 130E	RCP CL2 RRJ	26.73	1050	0.866	0.50	200.0	13.36	57.57	3.5357	565.5	8.11	72.61	3.0342	611.9	611.9	1931.7	0.32	0.71	1.98	1.80	2.23	258.11	255.36	255.23	257.77	0.75	1.25	-0.3	0.050	0.34		0.03	0.01		0.13	255.80	255.80	255.67	255.67	0.47	211.8	2.31
130G to 130F	RCP CL2 RRJ	13.90	1050	0.866	0.50	200.0	13.24	57.86	3.4863	560.3	7.89	73.45	2.9682	605.6	605.6	1931.7	0.31	0.70	1.97	1.79	2.23	258.18	255.48	255.41	258.11	0.75	1.33	14.6	0.050	0.41		0.02	0.01		0.06	255.92	255.91	255.81	255.80	0.72	139.1	2.26
130H to 130G	RCP CL2 RRJ	44.48	1050	0.866	0.50	200.0	12.87	58.78	3.3895	553.4	7.62	74.60	2.8880	598.4	598.4	1931.7	0.31	0.69	1.97	1.78	2.23	258.35	255.75	255.53	258.18	0.75	1.22	7.2	0.050	0.38		0.02	0.01		0.22	256.19	256.18	255.93	255.92	0.57	176.0	2.16
130I to 130H	RCP CL2 RRJ	24.80	1050	0.866	0.50	200.0	12.66	59.29	2.6954	443.9	7.89	73.45	2.2621	461.5	461.5	1931.7	0.24	0.53	1.83	1.65	2.23	258.45	255.93	255.80	258.35	0.75	1.02	0.1	0.050	0.54		0.01	0.01		0.12	256.31	256.30	256.19	256.19	0.44	224.9	2.14
130J to 130I	RCP CL2 RRJ	54.30	1050	0.866	0.50	200.0	12.21	60.41	2.5563	429.0	7.58	74.75	2.1402	444.4	444.4	1931.7	0.23	0.51	1.81	1.63	2.23	258.68	256.25	255.98	258.45	0.75	1.05	0.1	0.050	0.53		0.01	0.01		0.27	256.62	256.62	256.32	256.31	0.55	181.8	2.05
130K to 130J	RCP CL2 RRJ	25.40	1050	0.866	0.50	200.0	12.00	60.94	1.0890	184.3	5.00	87.70	0.4747	115.7	184.3	1931.7	0.10	0.21	1.41	1.27	2.23	258.81	256.42	256.30	258.68	0.75	0.82	0.7	0.050	7.00		0.00	0.02		0.09	256.67	256.66	256.62	256.62	0.14	722.6	2.13
144A to 130E	RCP CL2 RRJ	13.38	450	0.159	4.50	22.2	6.13	81.47	0.5890	133.3	5.64	84.11	0.5797	135.4	135.4	605.1	0.22	0.85	3.07	1.44	3.80	257.99	256.38	255.78	257.77	0.75	1.14	56.3	0.600	1.06		0.04	0.04		0.34	256.67	256.64	255.92	255.67	5.34	18.7	1.32
144B to 144A	RCP CL2 RRJ	65.93	375	0.110	1.50	66.7	5.51	84.85	0.2074	48.9	5.00	87.70	0.2023	49.3	49.3	214.8	0.23	0.45	1.58	1.09	1.95	258.78	257.44	256.45	257.99	0.75	0.93	54.9	0.075	4.49		0.01	0.05		0.96	257.65	257.60	256.67	256.67	1.41	71.1	1.14
144C to 144B	RCP CL2 RRJ	61.10	300	0.071	1.00	100.0	5.00	87.70	0.0500	12.2	5.00	87.70	0.0500	12.2	12.2	96.7	0.13	0.17	0.94	0.76	1.37	259.51	258.13	257.52	258.78	0.75	0.94	0.0	0.075	7.00		0.00	0.01		0.58	258.22	258.21	257.65	257.65	0.92	108.5	1.29
145A to 144A	RCP CL2 RRJ	8.50	375	0.110	1.50	66.7	6.06	81.81	0.3269	74.3	5.57	84.50	0.3218	75.5	75.5	214.8	0.35	0.68	1.77	1.26	1.95	257.99	256.58	256.45	257.99	0.75	0.83	-35.1	0.075	2.24	2.66	0.02	0.05	0.06	0.12	256.84	256.78	256.67	256.67	1.25	80.0	1.15
145B to 145A	RCP CL2 RRJ	68.53	375	0.110	1.50	66.7	5.49	84.97	0.2143	50.6	5.00	87.70	0.2092	51.0	51.0	214.8	0.24	0.46	1.59	1.10	1.95	258.82	257.66	256.63	257.99	0.75	0.74	90.0	0.050	4.45		0.01	0.05		1.01	257.87	257.82	256.83	256.84	1.44	69.4	0.95
145C to 145B	RCP CL2 RRJ	58.50	300	0.071	1.00	100.0	5.00	87.70	0.0526	12.8	5.00	87.70	0.0526	12.8	12.8	96.7	0.13	0.18	0.95	0.77	1.37	259.51	258.32	257.73	258.82	0.75	0.76	0.0	0.075	7.00		0.00	0.01		0.56	258.42	258.40	257.87	257.87	0.91	109.6	1.10
146A to 145A	RCP CL2 RRJ	8.53	300	0.071	1.00	100.0	5.00	87.70	0.0041	1.0	5.00	87.70	0.0041	1.0	1.0	96.7	0.01	0.01	0.44	0.39	1.37	257.88	256.74	256.66	257.99	0.75	0.82	-90.0	0.075	7.00		0.00	0.00		0.00	256.83	256.83	256.83	256.84	-0.00	-183381.9	1.04
147A to 130H	RCP CL2 RRJ	11.80	525	0.216	2.00	50.0	6.24	80.94	0.6209	139.6	5.93	82.49	0.6156	141.1	141.1	608.5	0.23	0.65	2.29	1.38	2.81	258.31	256.51	256.28	258.35	0.75	1.25	46.4	0.525	1.08		0.02	0.02		0.15	256.79	256.76	256.45	256.19	2.67	37.5	1.52
147B to 147A	RCP CL2 RRJ	58.15	375	0.110	1.50	66.7	5.67	83.96	0.2708	63.2	5.45	85.20	0.2695	63.8	63.8	214.8	0.30	0.58	1.69	1.19	1.95	259.24	257.53	256.66	258.31	0.75	1.24	43.2	0.150	2.37		0.02	0.04		0.84	257.76	257.72	256.80	256.79	1.57	63.5	1.48
147C to 147B	RCP CL2 RRJ	53.55	300	0.071	1.50	66.7	5.22	86.46	0.1212	29.1	5.00	87.70	0.1199	29.2	29.2	118.5	0.25	0.41	1.39	0.99	1.68	259.72	258.41	257.61	259.24	0.75	0.97	0.0	0.075	4.66		0.01	0.04		0.80	258.58	258.54	257.76	257.76	1.47	68.2	1.14
147D to 147C	RCP CL2 RRJ	26.50	300	0.071	0.50	200.0	5.00	87.70	0.0286	7.0	5.00	87.70	0.0286	7.0	7.0	68.4	0.10	0.10	0.62	0.65	0.97	259.95	258.60	258.46	259.72	0.75	0.93	-0.0	0.050	7.00		0.00	0.00		0.09	258.66	258.66	258.58	258.58	0.29	350.0	1.29
148A to 147A	RCP CL2 RRJ	8.50	450	0.159	1.00	100.0	6.17	81.29	0.2944	66.5	5.91	82.61	0.2914	66.9	66.9	285.2	0.23	0.42	1.46	1.14	1.79	258.31	256.67	256.59	258.31	0.75	0.96	-45.4	0.075	2.16	2.62	0.01	0.02	0.02	0.08	256.87	256.85	256.79	256.79	0.75	133.1	1.44
148B to 148A	RCP CL2 RRJ	57.94	450	0.159	1.00	100.0	5.68	83.88	0.2397	55.9	5.43	85.32	0.2367	56.1	56.1	285.2	0.20	0.35	1.39	1.08	1.79	259.24	257.30	256.72	258.31	0.75	1.11	88.6	0.050	1.06		0.01	0.01		0.58	257.47	257.46	256.87	256.87	1.03	97.5	1.77
148C to 148B	RCP CL2 RRJ	31.00	375	0.110	1.00	100.0	5.42	85.32	0.1687	40.0	5.26	86.23	0.1669	40.0	40.0	175.4	0.23	0.36	1.29	1.02	1.59	259.52	257.69	257.38	259.24	0.75	1.42	0.0	0.075	0.84		0.01	0.01		0.30	257.84	257.83	257.50	257.47	1.07	93.3	1.68
148D to 148C	RCP CL2 RRJ	11.53	375	0.110	1.00	100.0	5.33	85.86	0.1645	39.2	5.17	86.77	0.1627	39.2	39.2	175.4	0.22	0.36	1.28	1.02	1.59	259.43	257.85	257.74	259.52	0.75	1.18	-45.0	0.050	1.87		0.01	0.01		0.11	258.01	257.99	257.86	257.84	1.19	84.0	1.42
148E to 148D	RCP CL2 RRJ	8.50	300	0.071	0.50	200.0	5.10	87.16	0.0519	12.6	5.00	87.70	0.0516	12.6	12.6	68.4	0.18	0.18	0.74	0.77	0.97	259.43	257.97	257.93	259.43	1.00	0.95	45.0	0.075	5.49		0.00	0.01		0.04	258.07	258.06	258.01	258.01	0.53	188.2	1.36
148F to 148E	RCP CL2 RRJ	11.53	300	0.071	0.50	200.0	5.00	87.70	0.0145	3.5	5.00	87.70	0.0145	3.5	3.5	68.4	0.05	0.05	0.51	0.55	0.97	259.74	258.08	258.02	259.43	0.75	1.09	45.0	0.050	7.00		0.00	0.00		0.06	258.12	258.12	258.07	258.07	0.50	198.6	1.62
149A to 148D	RCP CL2 RRJ	39.40	300	0.071	0.50	200.0	5.00	87.70	0.0535	13.0	5.00	87.70	0.0535	13.0	13.0	68.4	0.19	0.18	0.75	0.78	0.97	259.23	258.12	257.93	259.43	0.75	0.78	-45.0	0.075	7.00		0.00	0.01		0.20	258.22	258.21	258.01	258.01	0.51	197.3	1.00
150A to 153A	RCP CL2 RRJ	12.20	450	0.159	0.50	200.0	5.42	85.34	0.2222	52.7	5.14	86.90	0.2196	53.0	53.0	201.7	0.26	0.33	1.07	1.07	1.27	259.15	257.46	257.40	259.19	0.75	1.08	44.4	0.375	1.23		0.01	0.01		0.06	257.62	257.62	257.55	257.25	0.50	198.9	1.53
150B to 150A	RCP CL2 RRJ	8.51	375	0.110	0.50	200.0	5.35	85.74	0.1694	40.4	5.07	87.30	0.1668	40.4	40.4	124.0	0.33	0.37	1.00	1.03	1.12	259.15	257.58	257.53	259.15	0.75	1.00	-41.5	0.075	3.39	3.71	0.01	0.02	0.03	0.04	257.75	257.72	257.68	257.62	0.53	188.7	1.40
150C to 150B	RCP CL2 RRJ	42.00	300	0.071	0.50	200.0	5.00	87.70	0.0480	11.7	5.00	87.70	0.0480	11.7	11.7	68.4	0.17	0.17	0.72	0.75	0.97	259.36	257.86	257.65	259.15	0.75	1.17	87.3	0.075	7.00		0.00	0.01		0.21	257.95	257.94	257.75	257.75	0.47	211.7	1.41
151A to 130J	RCP CL2 RRJ	12.15	900	0.636	0.50	200.0	8.74	70.25	1.3995	273.1	6.76	78.37	1.3508	294.1	294.1	1280.6	0.23	0.46	1.63	1.50	2.01	258.78	256.46	256.40	258.68	0.75	1.12	43.8	0.150	0.73		0.01	0.01		0.06	256.78	256.77	256.69	256.62	0.66	152.1	2.01
151B to 151A	RCP CL2 RRJ	13.54	825	0.535	0.50	200.0	8.63	70.67	1.3513	265.3	6.65	78.92	1.3026	285.6	285.6	1015.4	0.28	0.53	1.63	1.52	1.90	258.85	256.60	256.53	258.78	0.75	1.12	45.6	0.075	0.74		0.01	0.01		0.07	256.93	256.92	256.83	256.78	0.62	160.8	1.92
151C to 151B	RCP CL2 RRJ	12.02	600	0.283	0.50	200.0	7.05	77.00	0.5147	110.1	6.65	78.93	0.5095	111.7	111.7	434.4	0.26	0.40	1.29	1.24	1.54	258.89	256.89	256.83	258.85	0.75	0.93	-45.0	0.225	1.72		0.01	0.01		0.06	257.11	257.10	257.03	256.93	0.55	182.6	1.78
151D to 151C	RCP CL2 RRJ	65.80	600	0.283	0.40	250.0	6.50	79.66	0.3687	81.6	6.10	81.62	0.3634	82.4	82.4	388.5	0.21	0.29	1.09	1.14	1.37	259.19	257.20	256.94	258.89	0.75	1.07	45.3	0.050	1.11		0.00	0.00		0.26	257.39	257.39	257.12	257.11	0.41	245.0	1.80
151E to 151D	RCP CL2 RRJ	12.20	600	0.283	0.40	250.0	6.40	80.16	0.3311	73.7	6.00	82.12	0.3258	74.3	74.3	388.5	0.19	0.26	1.06	1.10	1.37	259.28	257.30	257.25	259.19	0.75	1.08	-44.5	0.050	0.78		0.00	0.00		0.05	257.48	257.48	257.42	257.39	0.44	226.4	1.80
151F to 151E	RCP CL2 RRJ	8.70	600	0.283	0.30	333.3	6.32	80.51	0.3311	74.0	5.92	82.52	0.3258	74.7	74.7	336.5	0.22	0.26	0.96	1.10	1.19	259.23	257.37	257.35	259.28	0.75	0.97	-45.8	0.050	0.46		0.00	0.00		0.03	257.57	257.56	257.52	257.48	0.50	198.2	1.67
151G to 151F	RCP CL2 RRJ	30.55	600	0.283	0.30	333.3	6.07	81.76	0.3139	71.3	5.67	83.95	0.3086	72.0	72.0	336.5	0.21	0.25	0.95	1.09	1.19	259.38	257.51	257.42	259.23	0.75	0.92	0.3	0.050			0.00			0.09	257.70	257.70	257.59	257.57	0.36	277.3	1.67
151H to 151G	RCP CL2 RRJ	15.95	525	0.216	0.30	333.3	5.94	82.45	0.3067	70.3	5.54	84.69	0.3014	70.9	70.9	235.7	0.30	0.33	0.95	1.12	1.09	259.46	257.64	257.59	259.38	0.75	0.97	-0.3	0.075	0.33		0.01	0.00		0.05	257.84	257.84	257.77	257.70	0.44	228.8	1.62
151I to 151H	RCP CL2 RRJ	24.80	525	0.216	0.30	333.3	5.73	83.61	0.2988	69.4	5.33	85.85	0.2935	70.0	70.0	235.7	0.30	0.32	0.95	1.12	1.09	259.37	257.76	257.69	259.46	0.75	0.64	-0.0	0.050	1.01		0.01	0.01		0.08	257.96	257.96	257.86	257.84	0.39	257.3	1.41
151J to 151I	RCP CL2 RRJ	39.60	375	0.110	0.30	333.3	5.40	85.46	0.1853	44.0	5.30	86.00	0.1850	44.2	44.2	96.1	0.46	0.40	0.85	1.06	0.87	259.58	258.03	257.91	259.37	0.75	0.80	-0.2	0.150	2.62		0.01	0.02		0.13	258.23	258.21	258.06	257.96	0.37	271.6	1.35
151K to 151J	RCP CL2 RRJ	36.50	375	0.110	0.60	166.7	5.10	87.16	0.0820	19.8	5.00	87.70	0.0817	19.9	19.9	135.9	0.15	0.18	0.88	0.84	1.23	259.51	258.30	258.08	259.58	0.75	0.80	0.2	0.050	6.84		0.00	0.01		0.19	258.41	258.40	258.23	258.23	0.46	215.6	1.10
151L to 151K	RCP CL2 RRJ	11.53	300	0.071	0.60	166.7	5.00	87.70	0.0154	3.8	5.00	87.70	0.0154	3.8	3.8	74.9	0.05	0.05	0.55	0.55	1.06	259.74	258.44	258.38	259.51	0.75	0.82	-45.0	0.075	7.00		0.00	0.00		0.07	258.49	258.49	258.42	258.41	0.60	166.4	1.25
152A to 151A	RCP CL2 RRJ	8.50	300	0.071	2.00	50.0	5.00	87.70	0.0421	10.3	5.00	87.70	0.0421	10.3	10.3	136.8	0.07	0.15	1.14	0.73	1.94	258.53	257.23	257.06	258.78	0.75	0.79	-43.0	0.600	7.00		0.00	0.01		0.15	257.31	257.30	257.11	256.78	2.24	44.6	1.22
153A to 151B	RCP CL2 RRJ	74.30	825	0.535	0.50	200.0	8.01	72.96	0.7172	145.4	6.40	80.14	0.6938	154.4	154.4	1015.4	0.15	0.29	1.37	1.27	1.90	259.19	257.02	256.65	258.85	0.75	1.04	-0.3	0.050	0.65		0.00	0.00		0.36	257.25	257.25	256.93	256.93	0.44	228.8	1.94
153B to 153A	RCP CL2 RRJ	21.07	825	0.535	0.50	200.0	7.83	73.69	0.4870	99.7	6.57	79.29	0.4772	105.1	105.1	1015.4	0.10	0.20	1.23	1.14	1.90	259.30	257.18	257.07	259.19	0.75	0.82	-34.8	0.050	1.33	1.41	0.00	0.00	0.00	0.10	257.37	257.37	257.25	257.25	0.53	189.2	1.93
153C to 153B	RCP CL2 RRJ	12.90	825	0.535	0.30	333.3	7.73	74.15	0.4532	93.3	6.47	79.82	0.4434	98.3	98.3	786.6	0.12	0.18	1.00	1.12	1.47	259.22	257.27	257.23	259.30	0.75	0.83	-56.3	0.050	1.20		0.00	0.00		0.04	257.46	257.46	257.41	257.37	0.41	241.5	1.75
153D to 153C	RCP CL2 RRJ	39.05	825	0.535	0.30	333.3	7.40	75.51	0.3574	75.0	6.31	80.59	0.3512	78.6	78.6	786.6	0.10	0.15	0.94	1.05	1.47	259.41	257.43	257.32	259.22	0.75	0.78	1.3	0.050	0.92		0.00	0.00		0.12	257.61	257.61	257.48	257.46	0.33	298.6	1.80
153E to 153D	RCP CL2 RRJ	30.90	825	0.535	0.30	333.3	7.14	76.59	0.3045	64.8	6.05	81.85	0.2983	67.8	67.8	786.6	0.09	0.13	0.90	1.01	1.47	259.36	257.58	257.48	259.41	0.75	0.66	0.0	0.050			0.00			0.09	257.74	257.74	257.63	257.61	0.34	292.4	1.62
153F to 153E	RCP CL2 RRJ	12.06	600	0.283	0.30	333.3	7.04	77.02	0.2869	61.4	5.95	82.38	0.2807	64.2	64.2	336.5	0.19	0.23	0.92	1.06	1.19	259.58	257.84	257.80	259.36	0.75	0.69	44.5	0.225	1.55	1.56	0.00	0.00	0.00	0.04	258.02	258.01	257.96	257.74	0.44	225.6	1.56
153G to 153F	RCP CL2 RRJ	52.10	525	0.216	0.40	250.0	6.61	79.11	0.2045	44.9	5.52	84.81	0.1985	46.8	46.8	272.1	0.17	0.22	0.94	0.99	1.26	259.86	258.12	257.91	259.58	0.75	0.86	45.8	0.075			0.00			0.21	258.27	258.27	258.05	258.02	0.41	243.2	1.59
153H to 153G	RCP CL2 RRJ	24.80	375	0.110	0.40	250.0	6.40	80.13	0.1965	43.7	5.31	85.97	0.1905	45.5	45.5	110.9	0.41	0.41	0.95	1.07	1.00	259.98	258.37	258.27	259.86	0.75	0.77	-0.3	0.150	1.24		0.01	0.01		0.10	258.55	258.54	258.42	258.27	0.45	220.3	1.43
153I to 153H	RCP CL2 RRJ	17.00	375	0.110	0.40	250.0	6.26	80.82	0.1511	33.9	5.26	86.24	0.1461	35.0	35.0	110.9	0.32	0.32	0.89	0.98	1.00	260.08	258.49	258.42	259.98	0.75	0.90	-0.0	0.050	1.42		0.01	0.01		0.07	258.64	258.63	258.55	258.55	0.46	216.8	1.44
153J to 153I	RCP CL2 RRJ	20.06	300	0.071	2.60	38.5	6.09	81.64	0.0926	21.0	5.09	87.17	0.0876	21.2	21.2	156.0	0.14	0.30	1.54	0.90	2.21	260.18	259.08	258.56	260.08	0.75	0.76	-0.2	0.075	1.82		0.00	0.01		0.48	259.20	259.19	258.64	258.64	2.77	36.1	0.98
153K to 153J	RCP CL2 RRJ	11.29	300	0.071	0.50	200.0	6.00	82.10	0.0556	12.7	5.00	87.70	0.0506	12.3	12.7	68.4	0.19	0.18	0.74	0.77	0.97	260.34	259.19	259.13	260.18	0.75	0.72	0.3	0.050	7.00		0.00	0.01		0.06	259.29	259.28	259.22	259.20	0.52	191.0	1.05
164A to 150B	RCP CL2 RRJ	8.55	300	0.071	0.50	200.0	5.00	87.70	0.0240	5.8	5.00	87.70	0.0240	5.8	5.8	68.4	0.09	0.08	0.59	0.62	0.97	259.11	257.67	257.63	259.15	0.75	1.11	-92.7	0.050	7.00		0.00	0.00		0.01	257.75	257.75	257.75	257.75	0.01	9775.0	1.36

REV	REVISION	DES	DWG CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM NJB	18/05/21

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
HEAD OFFICE: 57 MYERS STREET BENDIGO PH 03 5445 8700
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OORANYA ESTATE

SCALE N/A
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
20% AEP DRAINAGE HYDRAULIC DATA
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R29 / 34
REV: A

NOTE - THIS IS AN UNCONTROLLED DOCUMENT AND WILL

12D MODEL - HYDRAULIC DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 5AEP 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Rainfall Method: IFD Table
Freeboard Limit: 0.15 m

5% AEP Storm Event

Pipe ID (-)	Pipe Type (-)	Pipe Length (m)	Pipe Size (mm)	Full Pipe Area Af (sq.m)	Pipe Grade (%)	Pipe Grade (1 in)	Full-area Tct (min)	Full-area I (mm/hr)	Full-area Sum CA (ha)	Full-area Qc=CIA (L/s)	Part-area Tct (min)	Part-area I (mm/hr)	Part-area Sum CA (ha)	Part-area Qc=CIA (L/s)	Pipe Flow Q (L/s)	Capacity Flow Qcap (L/s)	Q/Qcap Ratio (-)	Full Pipe Vel Vf=Q/Af (m/s)	Norm Depth Vel Vn=Q/An (m/s)	Crit Depth Vel Vc=Q/Ac (m/s)	Capacity Vel Vcap=Qcap/Af (m/s)	US Node Grate RL (m)	Pipe US IL (m)	Pipe DS IL (m)	DS Node Grate RL (m)	Cover Limit (m)	Cover Min (m)	Pipe DS Bend (deg)	Pipe DS Drop (m)	US Node Ku (-)	US Node Kw (-)	Pipe V'head (m)	P'head Loss (Ku.V'head) (m)	WSE Loss (Kw.V'head) (m)	Pipe T'head Loss (m)	US Node HGL (m)	Pipe US HGL (m)	Pipe DS HGL (m)	DS Node HGL (m)	HGL Grade (%)	HGL Grade (1 in)	F'board US (m)
130B to 130A	RCP CL2 RRJ	23.76	1200	1.131	0.70	142.9	14.76	79.36	5.5208	1217.0	9.18	101.03	4.8482	1360.6	1360.6	3263.3	0.42	1.20	2.75	2.23	2.89	257.59	254.22	254.05	257.80	0.75	1.95	0.0	0.050	0.35		0.07	0.03		0.03	256.55	256.53	256.50	256.50	0.12	821.8	1.03
130C to 130B	RCP CL2 RRJ	66.97	1200	1.131	0.50	200.0	14.21	81.39	5.4087	1222.8	8.69	103.53	4.7520	1366.6	1366.6	2758.0	0.50	1.21	2.43	2.24	2.44	257.46	254.60	254.27	257.59	0.75	1.58	-9.7	0.050	-0.13		0.07	-0.01		0.08	256.63	256.64	256.55	256.55	0.12	814.5	0.83
130D to 130C	RCP CL2 RRJ	23.05	1050	0.866	0.50	200.0	14.01	82.09	5.3578	1221.7	8.60	103.99	4.7240	1364.6	1364.6	1931.7	0.71	1.58	2.42	2.36	2.23	257.56	254.87	254.75	257.46	0.75	1.41	-12.9	0.150	0.36		0.13	0.05		0.06	256.73	256.68	256.63	256.63	0.25	400.8	0.83
130E to 130D	RCP CL2 RRJ	52.03	1050	0.866	0.50	200.0	13.58	83.67	5.2273	1214.9	8.17	106.16	4.5935	1354.6	1354.6	1931.7	0.70	1.56	2.41	2.36	2.23	257.77	255.18	254.92	257.56	0.75	1.47	-8.2	0.050	0.34		0.12	0.04		0.13	256.90	256.86	256.73	256.73	0.25	406.8	0.87
130F to 130E	RCP CL2 RRJ	26.73	1050	0.866	0.50	200.0	13.36	84.48	4.3898	1030.1	8.38	105.10	3.8392	1120.9	1120.9	1931.7	0.58	1.29	2.31	2.19	2.23	258.11	255.36	255.23	257.77	0.75	1.25	-0.3	0.050	0.34		0.09	0.03		0.04	256.97	256.95	256.90	256.90	0.17	594.1	1.14
130G to 130F	RCP CL2 RRJ	13.90	1050	0.866	0.50	200.0	13.24	84.90	4.3274	1020.6	8.29	105.53	3.7824	1108.7	1108.7	1931.7	0.57	1.28	2.31	2.19	2.23	258.18	255.48	255.41	258.11	0.75	1.33	14.6	0.050	0.41		0.08	0.03		0.02	257.03	257.00	256.97	256.97	0.16	607.1	1.15
130H to 130G	RCP CL2 RRJ	44.48	1050	0.866	0.50	200.0	12.87	86.25	4.2051	1007.5	7.62	109.28	3.6051	1094.3	1094.3	1931.7	0.57	1.26	2.30	2.18	2.23	258.35	255.75	255.53	258.18	0.75	1.22	7.2	0.050	0.38		0.08	0.03		0.07	257.13	257.10	257.03	257.03	0.16	623.2	1.22
130I to 130H	RCP CL2 RRJ	24.80	1050	0.866	0.50	200.0	12.66	87.00	3.3283	804.4	7.89	107.64	2.8114	840.6	840.6	1931.7	0.44	0.97	2.15	1.99	2.23	258.45	255.93	255.80	258.35	0.75	1.02	0.1	0.050	0.54		0.05	0.03		0.02	257.18	257.16	257.13	257.13	0.09	1056.2	1.27
130J to 130I	RCP CL2 RRJ	54.30	1050	0.866	0.50	200.0	12.21	88.65	3.1525	776.3	7.58	109.51	2.6565	808.1	808.1	1931.7	0.42	0.93	2.13	1.96	2.23	258.68	256.25	255.98	258.45	0.75	1.05	0.1	0.050	0.54		0.04	0.02		0.04	257.25	257.23	257.18	257.18	0.08	1285.6	1.43
130K to 130J	RCP CL2 RRJ	25.40	1050	0.866	0.50	200.0	12.00	89.42	1.2991	322.7	5.00	128.00	0.5678	201.9	322.7	1931.7	0.17	0.37	1.65	1.49	2.23	258.81	256.42	256.30	258.68	0.75	0.82	0.7	0.050	7.00		0.01	0.05		0.00	257.30	257.25	257.25	257.25	0.00	20081.4	1.51
144A to 130E	RCP CL2 RRJ	13.38	450	0.159	4.50	22.2	6.13	119.09	0.7441	246.2	5.64	122.86	0.7323	249.9	249.9	605.1	0.41	1.57	3.62	1.87	3.80	257.99	256.38	255.78	257.77	0.75	1.14	56.3	0.600	1.03		0.13	0.13		0.10	257.13	257.00	256.90	256.90	0.77	130.2	0.86
144B to 144A	RCP CL2 RRJ	65.93	375	0.110	1.50	66.7	5.51	123.93	0.2620	90.2	5.00	128.00	0.2556	90.9	90.9	214.8	0.42	0.82	1.86	1.34	1.95	258.78	257.44	256.45	257.99	0.75	0.93	54.9	0.075	4.49		0.03	0.16		0.59	257.82	257.66	257.13	257.13	0.80	124.6	0.97
144C to 144B	RCP CL2 RRJ	61.10	300	0.071	1.00	100.0	5.00	128.00	0.0631	22.4	5.00	128.00	0.0631	22.4	22.4	96.7	0.23	0.32	1.11	0.91	1.37	259.51	258.13	257.52	258.78	0.75	0.94	0.0	0.075	7.00		0.01	0.04		0.46	258.28	258.24	257.82	257.82	0.69	144.2	1.23
145A to 144A	RCP CL2 RRJ	8.50	375	0.110	1.50	66.7	6.06	119.59	0.4130	137.2	5.57	123.43	0.4065	139.4	139.4	214.8	0.65	1.26	2.07	1.60	1.95	257.99	256.58	256.45	257.99	0.75	0.83	-35.1	0.075	1.91	2.33	0.08	0.16	0.19	0.05	257.38	257.19	257.13	257.13	0.63	158.4	0.62
145B to 145A	RCP CL2 RRJ	68.53	375	0.110	1.50	66.7	5.49	124.10	0.2707	93.3	5.00	128.00	0.2643	94.0	94.0	214.8	0.44	0.85	1.88	1.36	1.95	258.82	257.66	256.63	257.99	0.75	0.74	90.0	0.050	4.45		0.04	0.16		0.60	258.05	257.88	257.34	257.38	0.79	126.7	0.77
145C to 145B	RCP CL2 RRJ	58.50	300	0.071	1.00	100.0	5.00	128.00	0.0664	23.6	5.00	128.00	0.0664	23.6	23.6	96.7	0.24	0.33	1.13	0.92	1.37	259.51	258.32	257.73	258.82	0.75	0.76	0.0	0.075	7.00		0.01	0.04		0.43	258.48	258.44	258.05	258.05	0.66	150.9	1.04
146A to 145A	RCP CL2 RRJ	8.53	300	0.071	1.00	100.0	5.00	128.00	0.0051	1.8	5.00	128.00	0.0051	1.8	1.8	96.7	0.02	0.03	0.53	0.46	1.37	257.88	256.74	256.66	257.99	0.75	0.82	-90.0	0.075	4.79		0.00	0.00		0.00	257.34	257.34	257.34	257.38	0.00	282493.7	0.54
147A to 130H	RCP CL2 RRJ	11.80	525	0.216	2.00	50.0	6.24	118.35	0.7844	257.9	5.93	120.55	0.7777	260.4	260.4	608.5	0.43	1.20	2.70	1.72	2.81	258.31	256.51	256.28	258.35	0.75	1.25	46.4	0.525	1.08		0.07	0.08		0.04	257.26	257.18	257.13	257.13	0.37	272.9	1.05
147B to 147A	RCP CL2 RRJ	58.15	375	0.110	1.50	66.7	5.67	122.66	0.3421	116.5	5.45	124.43	0.3405	117.7	117.7	214.8	0.55	1.07	1.99	1.49	1.95	259.24	257.53	256.66	258.31	0.75	1.24	43.2	0.150	2.37		0.06	0.14		0.58	257.92	257.79	257.26	257.26	0.91	109.7	1.31
147C to 147B	RCP CL2 RRJ	53.55	300	0.071	1.50	66.7	5.22	126.23	0.1531	53.7	5.00	128.00	0.1515	53.9	53.9	118.5	0.45	0.76	1.64	1.22	1.68	259.72	258.41	257.61	259.24	0.75	0.97	0.0	0.075	4.66		0.03	0.14		0.71	258.73	258.59	257.92	257.92	1.25	80.1	0.99
147D to 147C	RCP CL2 RRJ	26.50	300	0.071	0.50	200.0	5.00	128.00	0.0361	12.8	5.00	128.00	0.0361	12.8	12.8	68.4	0.19	0.18	0.74	0.77	0.97	259.95	258.60	258.46	259.72	0.75	0.93	-0.0	0.050	7.00		0.00	0.01		0.01	258.75	258.73	258.73	258.73	0.01	8966.0	1.20
148A to 147A	RCP CL2 RRJ	8.50	450	0.159	1.00	100.0	6.17	118.84	0.3719	122.8	5.91	120.74	0.3681	123.4	123.4	285.2	0.43	0.78	1.73	1.39	1.79	258.31	256.67	256.59	258.31	0.75	0.96	-45.4	0.075	2.15	2.61	0.03	0.07	0.08	0.02	257.35	257.27	257.26	257.26	0.19	533.9	0.96
148B to 148A	RCP CL2 RRJ	57.94	450	0.159	1.00	100.0	5.68	122.54	0.3029	103.1	5.43	124.60	0.2990	103.5	103.5	285.2	0.36	0.65	1.65	1.31	1.79	259.24	257.30	256.72	258.31	0.75	1.11	88.6	0.050	1.06		0.02	0.02		0.25	257.55	257.53	257.34	257.35	0.32	311.1	1.69
148C to 148B	RCP CL2 RRJ	31.00	375	0.110	1.00	100.0	5.42	124.60	0.2131	73.7	5.26	125.90	0.2109	73.7	73.7	175.4	0.42	0.67	1.52	1.25	1.59	259.52	257.69	257.38	259.24	0.75	1.42	0.0	0.075	0.84		0.02	0.02		0.30	257.90	257.88	257.55	257.55	1.09	92.1	1.61
148D to 148C	RCP CL2 RRJ	11.53	375	0.110	1.00	100.0	5.33	125.37	0.2078	72.4	5.17	126.66	0.2056	72.3	72.4	175.4	0.41	0.66	1.51	1.24	1.59	259.43	257.85	257.74	259.52	0.75	1.18	-45.0	0.050	1.87		0.02	0.04		0.11	258.09	258.05	257.90	257.90	1.25	80.3	1.34
148E to 148D	RCP CL2 RRJ	8.50	300	0.071	0.50	200.0	5.10	127.23	0.0655	23.1	5.00	128.00	0.0651	23.2	23.2	68.4	0.34	0.33	0.87	0.92	0.97	259.43	257.97	257.93	259.43	1.00	0.95	45.0	0.075	5.49		0.01	0.03		0.02	258.13	258.10	258.09	258.09	0.09	1074.0	1.30
148F to 148E	RCP CL2 RRJ	11.53	300	0.071	0.50	200.0	5.00	128.00	0.0183	6.5	5.00	128.00	0.0183	6.5	6.5	68.4	0.10	0.09	0.61	0.64	0.97	259.74	258.08	258.02	259.43	0.75	1.09	45.0	0.050	7.00		0.00	0.00		0.03	258.14	258.14	258.13	258.13	0.11	917.5	1.60
149A to 148D	RCP CL2 RRJ	39.40	300	0.071	0.50	200.0	5.00	128.00	0.0677	24.1	5.00	128.00	0.0677	24.1	24.1	68.4	0.35	0.34	0.88	0.93	0.97	259.23	258.12	257.93	259.43	0.75	0.78	-45.0	0.075	7.00		0.01	0.04		0.18	258.29	258.25	258.09	258.09	0.40	249.8	0.94
150A to 153A	RCP CL2 RRJ	12.20	450	0.159	0.50	200.0	5.42	124.63	0.2807	97.2	5.14	126.86	0.2774	97.7	97.7	201.7	0.48	0.61	1.26	1.29	1.27	259.15	257.46	257.40	259.19	0.75	1.08	44.4	0.375	1.23		0.02	0.02		0.06	257.70	257.68	257.61	257.35	0.53	188.1	1.45
150B to 150A	RCP CL2 RRJ	8.51	375	0.110	0.50	200.0	5.35	125.20	0.2140	74.4	5.07	127.43	0.2107	74.6	74.6	124.0	0.60	0.68	1.17	1.25	1.12	259.15	257.58	257.53	259.15	0.75	1.00	-41.5	0.075	3.39	3.71	0.02	0.08	0.09	0.04	257.87	257.78	257.73	257.70	0.62	160.9	1.28
150C to 150B	RCP CL2 RRJ	42.00	300	0.071	0.50	200.0	5.00	128.00	0.0606	21.6	5.00	128.00	0.0606	21.6	21.6	68.4	0.32	0.30	0.86	0.90	0.97	259.36	257.86	257.65	259.15	0.75	1.17	87.3	0.075	7.00		0.00	0.03		0.14	258.01	257.98	257.86	257.87	0.27	374.5	1.35
151A to 130J	RCP CL2 RRJ	12.15	900	0.636	0.50	200.0	8.74	103.29	1.7679	507.2	6.76	114.67	1.7063	543.5	543.5	1280.6	0.42	0.85	1.93	1.81	2.01	258.78	256.46	256.40	258.68	0.75	1.12	43.8	0.150	0.73		0.04	0.03		0.01	257.28	257.26	257.25	257.25	0.05	2028.2	1.50
151B to 151A	RCP CL2 RRJ	13.54	825	0.535	0.50	200.0	8.63	103.85	1.7070	492.4	6.75	114.77	1.6556	527.8	527.8	1015.4	0.52	0.99	1.92	1.84	1.90	258.85	256.60	256.53	258.78	0.75	1.12	45.6	0.075	0.74		0.05	0.04		0.02	257.33	257.29	257.28	257.28	0.07	1476.1	1.52
151C to 151B	RCP CL2 RRJ	12.02	600	0.283	0.50	200.0	7.05	112.72	0.6502	203.6	6.65	115.47	0.6436	206.4	206.4	434.4	0.48	0.73	1.52	1.50	1.54	258.89	256.89	256.83	258.85	0.75	0.93	-45.0	0.225	1.72		0.03	0.05		0.01	257.38	257.34	257.33	257.33	0.05	1899.5	1.51
151D to 151C	RCP CL2 RRJ	65.80	600	0.283	0.40	250.0	6.50	116.51	0.4657	150.7	6.10	119.31	0.4591	152.1	152.1	388.5	0.39	0.54	1.29	1.36	1.37	259.19	257.20	256.94	258.89	0.75	1.07	45.3	0.050	1.11		0.01	0.02		0.14	257.48	257.46	257.38	257.38	0.12	850.7	1.72
151E to 151D	RCP CL2 RRJ	12.20	600	0.283	0.40	250.0	6.40	117.22	0.4183	136.2	6.00	120.03	0.4116	137.2	137.2	388.5	0.35	0.49	1.25	1.32	1.37	259.28	257.30	257.25	259.19	0.75	1.08	-44.5	0.050	0.78		0.01	0.01		0.05	257.55	257.54	257.49	257.48	0.47	211.3	1.72
151F to 151E	RCP CL2 RRJ	8.70	600	0.283	0.30	333.3	6.32	117.73	0.4183	136.8	5.92	120.61	0.4116	137.9	137.9	336.5	0.41	0.49	1.13	1.32	1.19	259.23	257.37	257.35	259.28	0.75	0.97	-45.8	0.050	0.46		0.01	0.01		0.03	257.64	257.64	257.59	257.55	0.59	169.7	1.59
151G to 151F	RCP CL2 RRJ	30.55	600	0.283	0.30	333.3	6.07	119.51	0.3965	131.6	5.67	122.64	0.3899	132.8	132.8	336.5	0.39	0.47	1.12	1.31	1.19	259.38	257.51	257.42	259.23	0.75	0.92	0.3	0.050			0.01			0.10	257.78	257.78	257.66	257.64	0.39	254.0	1.60
151H to 151G	RCP CL2 RRJ	15.95	525	0.216	0.30	333.3	5.94	120.50	0.3875	129.7	5.54	123.71	0.3808	130.9	130.9	235.7	0.56	0.60	1.12	1.35	1.09	259.46	257.64	257.59	259.38	0.75	0.97	-0.3	0.075	0.33		0.02	0.01		0.06	257.92	257.91	257.83	257.78	0.52	193.4	1.54
151I to 151H	RCP CL2 RRJ	24.80	525	0.216	0.30	333.3	5.73	122.16	0.3775	128.1	5.33	125.36	0.3708	129.1	129.1	235.7	0.55	0.60	1.11	1.34	1.09	259.37	257.76	257.69	259.46	0.75	0.64	-0.0	0.050	1.01		0.02	0.02		0.08	258.06	258.04	257.93	257.92	0.45	223.6	1.32
151J to 151I	RCP CL2 RRJ	39.60	375	0.110	0.30	333.3	5.40	124.80	0.2341	81.1	5.30	125.57	0.2337	81.5	81.5	96.1	0.85	0.74	0.98	1.29	0.87	259.58	258.03	257.91	259.37	0.75	0.80	-0.2	0.150	2.62		0.03	0.07		0.14	258.37	258.29	258.12	258.06	0.44	229.4	1.21
151K to 151J	RCP CL2 RRJ	36.50	375	0.110	0.60	166.7	5.10	127.23	0.1036	36.6	5.00	128.00	0.1032	36.7	36.7	135.9	0.27	0.33	1.04	1.00	1.23	259.51	258.30	258.08	259.58	0.75	0.80	0.2	0.050	6.84		0.01	0.04		0.11	258.48	258.44	258.37	258.37	0.19	513.0	1.03
151L to 151K	RCP CL2 RRJ	11.53	300	0.071	0.60	166.7	5.00	128.00	0.0195	6.9	5.00	128.00	0.0195	6.9	6.9	74.9	0.09	0.10	0.66	0.65	1.06	259.74	258.44	258.38	259.51	0.75	0.82	-45.0	0.075	7.00		0.00	0.00		0.05	258.51	258.51	258.48	258.48	0.26	382.0	1.23
152A to 151A	RCP CL2 RRJ	8.50	300	0.071	2.00	50.0	5.00	128.00	0.0532	18.9	5.00	128.00	0.0532	18.9	18.9	136.8	0.14	0.27	1.36	0.87	1.94	258.53	257.23	257.06	258.78	0.75	0.79	-43.0	0.600	7.00		0.00	0.03		0.08	257.36	257.33	257.28	257.28	0.57	174.3	1.18
153A to 151B	RCP CL2 RRJ	74.30	825	0.535	0.50	200.0	8.01	106.95	0.9059	269.1	6.61	115.75	0.8875	285.4	285.4	1015.4	0.28	0.53	1.63	1.52	1.90	259.19	257.02	256.65	258.85	0.75	1.04	-0.3	0.050	0.65		0.01	0.01		0.11	257.35	257.34	257.33	257.33	0.01	8681.2	1.85
153B to 153A	RCP CL2 RRJ	21.07	825	0.535	0.50	200.0	7.83	107.99	0.6152	184.6	6.57	115.99	0.6028	194.2	194.2	1015.4	0.19	0.36	1.46	1.35	1.90	259.30	257.18	257.07	259.19	0.75	0.82	-34.8	0.050	1.33	1.41	0.01	0.01	0.01	0.10	257.45	257.44	257.35	257.35	0.42	237.3	1.85
153C to 153B	RCP CL2 RRJ	12.90	825	0.535	0.30	333.3	7.73	108.64	0.5725	172.8	6.47	116.74	0.5601	181.6	181.6	786.6	0.23	0.34	1.20	1.33	1.47	259.22	257.27	257.23	259.30	0.75	0.83	-56.3	0.050	1.20		0.01	0.01		0.04	257.54	257.54	257.48	257.45	0.45	220.3	1.68
153D to 153C	RCP CL2 RRJ	39.05	825	0.535	0.30	333.3	7.40	110.59	0.4515	138.7	6.31	117.85	0.4437	145.2	145.2	786.6	0.18	0.27	1.12	1.25	1.47	259.41	257.43	257.32	259.22	0.75	0.78	1.3	0.050	0.92		0.00	0.00		0.12	257.68	257.67	257.54	257.54	0.33	299.1	1.74
153E to 153D	RCP CL2 RRJ	30.90	825	0.535	0.30	333.3	7.14	112.13	0.3846	119.8	6.05	119.65	0.3768	125.2	125.2	786.6	0.16	0.23	1.08	1.20	1.47	259.36	257.58	257.48	259.41	0.75	0.66	0.0	0.050			0.00			0.09	257.80	257.80	257.69	257.68	0.35	283.5	1.56
153F to 153E	RCP CL2 RRJ	12.06	600	0.283	0.30	333.3	7.04	112.74	0.3624	113.5	5.95	120.40	0.3546	118.6	118.6	336.5	0.35	0.42	1.09	1.26	1.19	259.58	257.84	257.80	259.36	0.75	0.69	44.5	0.225	1.55	1.56	0.01	0.01	0.01	0.04	258.09	258.08	258.02	257.80	0.50	199.6	1.49
153G to 153F	RCP CL2 RRJ	52.10	525	0.216	0.40	250.0	6.61	115.73	0.2583	83.1	5.52	123.88	0.2508	86.3	86.3	272.1	0.32	0.40	1.12	1.19	1.26	259.86	258.12	257.91	259.58	0.75	0.86	45.8	0.075			0.01			0.21	258.32	258.32	258.11	258.09	0.42	239.6	1.53
153H to 153G	RCP CL2 RRJ	24.80	375	0.110	0.40	250.0	6.40	117.18	0.2482	80.8	5.31	125.53	0.2406	83.9	83.9	110.9	0.76	0.76	1.10	1.30	1.00	259.98	258.37	258.27	259.86	0.75	0.77	-0.3	0.150	1.24		0.03	0.04		0.11	258.65	258.61	258.48	258.32	0.53	189.4	1.33
153I to 153H	RCP CL2 RRJ	17.00	375	0.110	0.40	250.0	6.26	118.17	0.1909	62.7	5.26	125.91	0.1846	64.5	64.5	110.9	0.58	0.58	1.04	1.19	1.00	260.08	258.49	258.42	259.98	0.75	0.90	-0.0	0.050	1.42		0.02	0.02		0.06	258.72	258.70	258.65	258.65	0.27	371.4	1.36
153J to 153I	RCP CL2 RRJ	20.06	300	0.071	2.60	38.5	6.09	119.34	0.1169	38.8	5.09	127.25	0.1106	39.1	39.1	156.0	0.25	0.55	1.84	1.08	2.21	260.18	259.08	258.56	260.08	0.75	0.76	-0.2	0.075	1.81		0.02	0.03		0.52	259.26	259.24	258.72	258.72	2.57	38.9	0.91
153K to 153J	RCP CL2 RRJ	11.29	300	0.071	0.50	200.0	6.00	120.00	0.0703	23.4	5.00	128.00	0.0639	22.7	23.4	68.4	0.34	0.33	0.88	0.92	0.97	260.34	259.19	259.13	260.18	0.75	0.72	0.3	0.050	7.00		0.01	0.04		0.05	259.35	259.31	259.26	259.26	0.42	240.7	0.99
164A to 150B	RCP CL2 RRJ	8.55	300	0.071	0.50	200.0	5.00	128.00	0.0303	10.8	5.00	128.00	0.0303	10.8	10.8	68.4	0.16	0.15	0.71	0.74	0.97	259.11	257.67	257.63	259.15	0.75	1.11	-92.7	0.050	7.00		0.00	0.01		0.00	257.87	257.86	257.86	257.87	0.01	14735.9	1.24

REV	REVISION	DES	DWG CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM NJB	18/05/21

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
5% AEP DRAINAGE HYDRAULIC DATA
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R30 / 34
REV

12D MODEL - HYDRAULIC DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 Major 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Rainfall Method: IFD Table
Freeboard Limit: 0.15 m

Major 1% AEP Storm Event

Pipe ID (-)	Pipe Type (-)	Pipe Length (m)	Pipe Size (mm)	Full Pipe Area Af (sq.m)	Pipe Grade (%)	Pipe Grade (1 in)	Full-area Tct (min)	Full-area I (mm/hr)	Full-area Sum CA (ha)	Full-area Qc=CIA (L/s)	Part-area Tct (min)	Part-area I (mm/hr)	Part-area Sum CA (ha)	Part-area Qc=CIA (L/s)	Pipe Flow Q (L/s)	Excess Pipe Flow Qx (L/s)	Capacity low Qcap (L/s)	Q/Qcap Ratio (-)	Full Pipe Vel Vf=Q/Af (m/s)	Norm Depth Vel Vn=Q/An (m/s)	Crit Depth Vel Vc=Q/Ac (m/s)	apacity V ap=Qcap/ (m/s)	US Node Grate R (m)	Pipe US IL (m)	Pipe DS IL (m)	DS Node Grate R (m)	Cover Limit (m)	Cover Min (m)	Pipe DS Bend (deg)	Pipe DS Drop (m)	US Node Ku (-)	US Node Kw (-)	Pipe V'head (m)	P'head Loss (Ku.V'head) (m)	WSE Loss (Kw.V'head) (m)	Pipe T'head Loss (m)	US Node HGL (m)	Pipe US HGL (m)	Pipe DS HGL (m)	DS Node HGL (m)	HGL Grade (%)	HGL Grade (1 in)	F'board US (m)
130B to 130A	RCP CL2 RRJ	23.76	1200	1.131	0.70	142.9	14.76	114.28	5.5208	1752.5	9.18	145.72	4.8482	1962.4	1962.4		3263.3	0.60	1.74	3.02	2.56	2.89	257.59	254.22	254.05	257.80	0.75	1.95	0.0	0.050	0.34		0.15	0.05		0.06	256.61	256.56	256.50	256.50	0.25	395.0	0.97
130C to 130B	RCP CL2 RRJ	66.97	1200	1.131	0.50	200.0	14.21	117.29	5.4087	1762.2	8.63	150.00	4.7361	1973.4	1973.4		2758.0	0.72	1.74	2.65	2.56	2.44	257.46	254.60	254.27	257.59	0.75	1.58	-9.7	0.050	-0.13		0.16	-0.02		0.17	256.76	256.78	256.61	256.61	0.26	390.7	0.70
130D to 130C	RCP CL2 RRJ	23.05	1050	0.866	0.50	200.0	14.01	118.33	5.3578	1761.0	8.43	151.54	4.6853	1972.2	1972.2		1931.7	1.02	2.28	2.54	2.79	2.23	257.56	254.87	254.75	257.46	0.75	1.41	-12.9	0.150	0.35		0.26	0.09		0.12	256.98	256.88	256.76	256.76	0.52	191.9	0.58
130E to 130D	RCP CL2 RRJ	52.03	1050	0.866	0.50	200.0	13.58	120.67	5.2273	1752.1	7.81	156.71	4.5055	1961.2	1961.2		1931.7	1.02	2.26	2.54	2.78	2.23	257.77	255.18	254.92	257.56	0.75	1.47	-8.2	0.050	0.32		0.26	0.08		0.27	257.33	257.24	256.98	256.98	0.52	194.0	0.44
130F to 130E	RCP CL2 RRJ	26.73	1050	0.866	0.50	200.0	13.36	121.87	4.3898	1486.1	8.11	154.15	3.7898	1622.7	1622.7		1931.7	0.84	1.87	2.50	2.54	2.23	258.11	255.36	255.23	257.77	0.75	1.25	-0.3	0.050	0.33		0.18	0.06		0.09	257.48	257.42	257.33	257.33	0.35	283.4	0.63
130G to 130F	RCP CL2 RRJ	13.90	1050	0.866	0.50	200.0	13.24	122.50	4.3274	1472.5	7.89	155.97	3.7070	1606.0	1606.0		1931.7	0.83	1.85	2.49	2.53	2.23	258.18	255.48	255.41	258.11	0.75	1.33	14.6	0.050	0.37		0.18	0.07		0.05	257.60	257.53	257.48	257.48	0.35	289.3	0.59
130H to 130G	RCP CL2 RRJ	44.48	1050	0.866	0.50	200.0	12.87	124.50	4.2051	1454.2	7.62	158.42	3.6051	1586.4	1586.4		1931.7	0.82	1.83	2.49	2.52	2.23	258.35	255.75	255.53	258.18	0.75	1.22	7.2	0.050	0.35		0.17	0.06		0.15	257.81	257.75	257.60	257.60	0.34	296.5	0.55
130I to 130H	RCP CL2 RRJ	24.80	1050	0.866	0.50	200.0	12.66	125.61	3.3283	1161.3	7.81	156.68	2.7988	1218.1	1218.1		1931.7	0.63	1.41	2.36	2.26	2.23	258.45	255.93	255.80	258.35	0.75	1.02	0.1	0.050	0.49		0.10	0.05		0.05	257.90	257.86	257.81	257.81	0.20	503.0	0.55
130J to 130I	RCP CL2 RRJ	54.30	1050	0.866	0.50	200.0	12.21	128.06	3.1525	1121.4	7.44	160.03	2.6357	1171.7	1171.7		1931.7	0.61	1.35	2.34	2.23	2.23	258.68	256.25	255.98	258.45	0.75	1.05	0.1	0.050	0.53		0.09	0.05		0.10	258.05	258.00	257.90	257.90	0.18	543.7	0.62
130K to 130J	RCP CL2 RRJ	25.40	1050	0.866	0.50	200.0	12.00	129.20	1.2991	466.2	5.00	186.00	0.5678	293.4	466.2		1931.7	0.24	0.54	1.84	1.65	2.23	258.81	256.42	256.30	258.68	0.75	0.82	0.7	0.050	6.34		0.01	0.09		0.01	258.16	258.06	258.05	258.05	0.03	3433.4	0.65
144A to 130E	RCP CL2 RRJ	13.38	450	0.159	4.50	22.2	6.13	172.71	0.7441	357.0	5.64	178.30	0.7323	362.7	362.7		605.1	0.60	2.28	3.97	2.39	3.80	257.99	256.38	255.78	257.77	0.75	1.14	56.3	0.600	0.89		0.27	0.24		0.22	257.78	257.55	257.33	257.33	1.62	61.8	0.21
144B to 144A	RCP CL2 RRJ	65.93	375	0.110	1.50	66.7	5.51	179.89	0.2620	130.9	5.00	186.00	0.2556	132.1	132.1		214.8	0.61	1.20	2.04	1.56	1.95	258.78	257.44	256.45	257.99	0.75	0.93	54.9	0.075	2.65		0.07	0.19		0.37	258.35	258.16	257.78	257.78	0.57	176.4	0.44
144C to 144B	RCP CL2 RRJ	61.10	300	0.071	1.00	100.0	5.00	186.00	0.0631	32.6	5.00	186.00	0.0631	32.6	32.6		96.7	0.34	0.46	1.23	1.02	1.37	259.51	258.13	257.52	258.78	0.75	0.94	0.0	0.075	7.00		0.01	0.08		0.07	258.49	258.42	258.35	258.35	0.11	887.4	1.02
145A to 144A	RCP CL2 RRJ	8.50	375	0.110	1.50	66.7	6.06	173.41	0.4130	198.9	5.57	179.15	0.4065	202.3	202.3	106.1	214.8	0.94	1.83	2.21	1.99	1.95	257.99	256.58	256.45	257.99	0.75	0.83	-35.1	0.075	1.51	1.84	0.04	0.06	0.07	0.03	257.88	257.81	257.78	257.78	0.30	332.4	0.11
145B to 145A	RCP CL2 RRJ	68.53	375	0.110	1.50	66.7	5.49	180.15	0.2707	135.5	5.00	186.00	0.2643	136.5	136.5		214.8	0.64	1.24	2.06	1.59	1.95	258.82	257.66	256.63	257.99	0.75	0.74	90.0	0.050	2.84		0.08	0.22		0.42	258.50	258.28	257.87	257.88	0.61	165.0	0.31
145C to 145B	RCP CL2 RRJ	58.50	300	0.071	1.00	100.0	5.00	186.00	0.0664	34.3	5.00	186.00	0.0664	34.3	34.3		96.7	0.35	0.49	1.25	1.04	1.37	259.51	258.32	257.73	258.82	0.75	0.76	0.0	0.075	7.00		0.01	0.08		0.07	258.66	258.57	258.50	258.50	0.12	836.8	0.85
146A to 145A	RCP CL2 RRJ	8.53	300	0.071	1.00	100.0	5.00	186.00	0.0051	2.6	5.00	186.00	0.0051	2.6	2.6		96.7	0.03	0.04	0.60	0.51	1.37	257.88	256.74	256.66	257.99	0.75	0.82	-90.0	0.075	2.62		0.00	0.00		0.00	257.87	257.87	257.87	257.88	0.00	133783.6	0.01
147A to 130H	RCP CL2 RRJ	11.80	525	0.216	2.00	50.0	6.24	171.64	0.7844	374.0	5.93	174.83	0.7777	377.7	377.7		608.5	0.62	1.74	2.96	2.06	2.81	258.31	256.51	256.28	258.35	0.75	1.25	46.4	0.525	0.92		0.16	0.14		0.09	258.04	257.90	257.81	257.81	0.77	129.8	0.27
147B to 147A	RCP CL2 RRJ	58.15	375	0.110	1.50	66.7	5.67	177.99	0.3421	169.1	5.45	180.64	0.3405	170.8	170.8		214.8	0.80	1.55	2.16	1.78	1.95	259.24	257.53	256.66	258.31	0.75	1.24	43.2	0.150	1.29		0.12	0.16		0.55	258.75	258.59	258.04	258.04	0.95	105.4	0.49
147C to 147B	RCP CL2 RRJ	53.55	300	0.071	1.50	66.7	5.22	183.35	0.1531	78.0	5.00	186.00	0.1515	78.3	78.3		118.5	0.66	1.11	1.79	1.42	1.68	259.72	258.41	257.61	259.24	0.75	0.97	0.0	0.075	2.45		0.06	0.15		0.35	259.25	259.10	258.75	258.75	0.65	152.7	0.47
147D to 147C	RCP CL2 RRJ	26.50	300	0.071	0.50	200.0	5.00	186.00	0.0361	18.6	5.00	186.00	0.0361	18.6	18.6		68.4	0.27	0.26	0.82	0.86	0.97	259.95	258.60	258.46	259.72	0.75	0.93	-0.0	0.050	4.23		0.00	0.01		0.01	259.28	259.26	259.25	259.25	0.04	2693.2	0.67
148A to 147A	RCP CL2 RRJ	8.50	450	0.159	1.00	100.0	6.17	172.34	0.3719	178.1	5.91	175.10	0.3681	179.0	179.0		285.2	0.63	1.13	1.89	1.60	1.79	258.31	256.67	256.59	258.31	0.75	0.96	-45.4	0.075	1.55	1.88	0.06	0.10	0.12	0.03	258.19	258.07	258.04	258.04	0.39	253.8	0.12
148B to 148A	RCP CL2 RRJ	57.94	450	0.159	1.00	100.0	5.68	177.81	0.3029	149.6	5.43	180.90	0.2990	150.3	150.3		285.2	0.53	0.94	1.82	1.50	1.79	259.24	257.30	256.72	258.31	0.75	1.11	88.6	0.050	0.72		0.05	0.03		0.16	258.37	258.33	258.17	258.19	0.28	360.3	0.87
148C to 148B	RCP CL2 RRJ	31.00	375	0.110	1.00	100.0	5.42	180.91	0.2131	107.1	5.26	182.84	0.2109	107.1	107.1		175.4	0.61	0.97	1.67	1.43	1.59	259.52	257.69	257.38	259.24	0.75	1.42	0.0	0.075	0.82		0.05	0.04		0.12	258.52	258.48	258.37	258.37	0.37	268.2	1.00
148D to 148C	RCP CL2 RRJ	11.53	375	0.110	1.00	100.0	5.33	182.06	0.2078	105.1	5.17	184.00	0.2056	105.1	105.1		175.4	0.60	0.95	1.66	1.42	1.59	259.43	257.85	257.74	259.52	0.75	1.18	-45.0	0.050	1.56		0.05	0.07		0.04	258.64	258.56	258.52	258.52	0.36	278.7	0.79
148E to 148D	RCP CL2 RRJ	8.50	300	0.071	0.50	200.0	5.10	184.85	0.0655	33.6	5.00	186.00	0.0651	33.7	33.7		68.4	0.49	0.48	0.96	1.03	0.97	259.43	257.97	257.93	259.43	1.00	0.95	45.0	0.075	3.31		0.01	0.04		0.01	258.68	258.65	258.64	258.64	0.12	826.0	0.74
148F to 148E	RCP CL2 RRJ	11.53	300	0.071	0.50	200.0	5.00	186.00	0.0183	9.5	5.00	186.00	0.0183	9.5	9.5		68.4	0.14	0.13	0.68	0.71	0.97	259.74	258.08	258.02	259.43	0.75	1.09	45.0	0.050	4.71		0.00	0.00		0.00	258.69	258.69	258.68	258.68	0.01	10456.4	1.05
149A to 148D	RCP CL2 RRJ	39.40	300	0.071	0.50	200.0	5.00	186.00	0.0677	35.0	5.00	186.00	0.0677	35.0	35.0		68.4	0.51	0.49	0.97	1.05	0.97	259.23	258.12	257.93	259.43	0.75	0.78	-45.0	0.075	4.65		0.01	0.06		0.05	258.74	258.69	258.64	258.64	0.13	766.1	0.48
150A to 153A	RCP CL2 RRJ	12.20	450	0.159	0.50	200.0	5.42	180.95	0.2807	141.1	5.14	184.29	0.2774	142.0	142.0		201.7	0.70	0.89	1.37	1.46	1.27	259.15	257.46	257.40	259.19	0.75	1.08	-44.4	0.375	1.02		0.04	0.04		0.03	258.39	258.35	258.32	258.32	0.25	403.5	0.76
150B to 150A	RCP CL2 RRJ	8.51	375	0.110	0.50	200.0	5.35	181.80	0.2140	108.1	5.07	185.15	0.2107	108.3	108.3		124.0	0.87	0.98	1.27	1.44	1.12	259.15	257.58	257.53	259.15	0.75	1.00	-41.5	0.075	2.12	2.45	0.05	0.10	0.12	0.03	258.55	258.43	258.39	258.39	0.38	262.1	0.61
150C to 150B	RCP CL2 RRJ	42.00	300	0.071	0.50	200.0	5.00	186.00	0.0606	31.3	5.00	186.00	0.0606	31.3	31.3		68.4	0.46	0.44	0.95	1.01	0.97	259.36	257.86	257.65	259.15	0.75	1.17	87.3	0.075	3.74		0.01	0.04		0.04	258.61	258.57	258.53	258.55	0.10	954.2	0.75
151A to 130I	RCP CL2 RRJ	12.15	900	0.636	0.50	200.0	8.74	149.06	1.7679	732.0	6.76	166.39	1.7063	788.6	788.6		1280.6	0.62	1.24	2.12	2.06	2.01	258.78	256.46	256.40	258.68	0.75	1.12	43.8	0.150	0.72		0.08	0.06		0.02	258.13	258.08	258.05	258.05	0.19	527.4	0.65
151B to 151A	RCP CL2 RRJ	13.54	825	0.535	0.50	200.0	8.63	149.96	1.7070	711.1	6.75	166.53	1.6556	765.8	765.8		1015.4	0.75	1.43	2.09	2.12	1.90	258.85	256.60	256.53	258.78	0.75	1.12	45.6	0.075	0.65		0.10	0.07		0.04	258.24	258.17	258.13	258.13	0.28	351.6	0.61
151C to 151B	RCP CL2 RRJ	12.02	600	0.283	0.50	200.0	7.05	163.58	0.6502	295.5	6.65	167.53	0.6436	299.5	299.5		434.4	0.69	1.06	1.66	1.71	1.54	258.89	256.89	256.83	258.85	0.75	0.93	-45.0	0.225	1.37		0.06	0.08		0.03	258.35	258.27	258.24	258.24	0.24	420.7	0.55
151D to 151C	RCP CL2 RRJ	65.80	600	0.283	0.40	250.0	6.50	169.01	0.4657	218.7	6.10	173.02	0.4591	220.6	220.6		388.5	0.57	0.78	1.42	1.53	1.37	259.19	257.20	256.94	258.89	0.75	1.07	45.3	0.050	1.01		0.03	0.03		0.08	258.46	258.43	258.35	258.35	0.13	775.2	0.73
151E to 151D	RCP CL2 RRJ	12.20	600	0.283	0.40	250.0	6.40	170.03	0.4183	197.5	6.00	174.04	0.4116	199.0	199.0		388.5	0.51	0.70	1.38	1.48	1.37	259.28	257.30	257.25	259.19	0.75	1.08	-44.5	0.050	0.77		0.03	0.02		0.01	258.50	258.48	258.46	258.46	0.10	953.1	0.78
151F to 151E	RCP CL2 RRJ	8.70	600	0.283	0.30	333.3	6.32	170.76	0.4183	198.4	5.92	174.91	0.4116	200.0	200.0		336.5	0.59	0.71	1.24	1.48	1.19	259.23	257.37	257.35	259.28	0.75	0.97	-45.8	0.050	0.42		0.03	0.01		0.01	258.52	258.51	258.50	258.50	0.11	943.6	0.72
151G to 151F	RCP CL2 RRJ	30.55	600	0.283	0.30	333.3	6.07	173.30	0.3965	190.9	5.67	177.96	0.3899	192.7	192.7		336.5	0.57	0.68	1.23	1.47	1.19	259.38	257.51	257.42	259.23	0.75	0.92	0.3	0.050	-0.22		0.02	-0.01		0.03	258.54	258.55	258.52	258.52	0.10	1015.9	0.84
151H to 151G	RCP CL2 RRJ	15.95	525	0.216	0.30	333.3	5.94	174.76	0.3875	188.1	5.54	179.56	0.3808	189.9	189.9		235.7	0.81	0.88	1.21	1.53	1.09	259.46	257.64	257.59	259.38	0.75	0.97	-0.3	0.075	0.31		0.04	0.01		0.03	258.58	258.57	258.54	258.54	0.19	513.2	0.87
151I to 151H	RCP CL2 RRJ	24.80	525	0.216	0.30	333.3	5.73	177.24	0.3775	185.9	5.33	182.04	0.3708	187.5	187.5		235.7	0.80	0.87	1.21	1.52	1.09	259.37	257.76	257.69	259.46	0.75	0.64	-0.0	0.050	0.88		0.04	0.03		0.05	258.67	258.63	258.58	258.58	0.19	526.5	0.71
151J to 151I	RCP CL2 RRJ	39.60	375	0.110	0.30	333.3	5.40	181.20	0.2341	117.8	5.30	182.35	0.2337	118.4	118.4		96.1	1.23	1.07	1.07	1.49	0.87	259.58	258.03	257.91	259.37	0.75	0.80	-0.2	0.150	1.79		0.06	0.10		0.18	258.95	258.85	258.67	258.67	0.46	219.6	0.63
151K to 151J	RCP CL2 RRJ	36.50	375	0.110	0.60	166.7	5.10	184.85	0.1036	53.2	5.00	186.00	0.1032	53.3	53.3		135.9	0.39	0.48	1.16	1.12	1.23	259.51	258.30	258.08	259.58	0.75	0.80	0.2	0.050	5.08		0.01	0.06		0.03	259.04	258.98	258.95	258.95	0.09	1082.6	0.47
151L to 151K	RCP CL2 RRJ	11.53	300	0.071	0.60	166.7	5.00	186.00	0.0195	10.1	5.00	186.00	0.0195	10.1	10.1		74.9	0.13	0.14	0.74	0.72	1.06	259.74	258.44	258.38	259.51	0.75	0.82	-45.0	0.075	4.76		0.00	0.00		0.00	259.05	259.05	259.04	259.04	0.01	9253.8	0.69
152A to 151A	RCP CL2 RRJ	8.50	300	0.071	2.00	50.0	5.00	186.00	0.0532	27.5	5.00	186.00	0.0532	27.5	27.5		136.8	0.20	0.39	1.51	0.97	1.94	258.53	257.23	257.06	258.78	0.75	0.79	-43.0	0.600	3.06		0.01	0.02		0.01	258.16	258.14	258.13	258.13	0.08	1240.1	0.37
153A to 151B	RCP CL2 RRJ	74.30	825	0.535	0.50	200.0	8.01	154.92	0.9059	389.9	6.61	167.93	0.8875	414.0	414.0		1015.4	0.41	0.77	1.80	1.70	1.90	259.19	257.02	256.65	258.85	0.75	1.04	-0.3	0.050	0.65		0.03	0.02		0.06	258.32	258.30	258.24	258.24	0.08	1203.3	0.87
153B to 153A	RCP CL2 RRJ	21.07	825	0.535	0.50	200.0	7.83	156.49	0.6152	267.4	6.57	168.27	0.6028	281.8	281.8		1015.4	0.28	0.53	1.62	1.51	1.90	259.30	257.18	257.07	259.19	0.75	0.82	-34.8	0.050	1.33	1.41	0.01	0.02	0.02	0.01	258.35	258.33	258.32	258.32	0.04	2597.8	0.95
153C to 153B	RCP CL2 RRJ	12.90	825	0.535	0.30	333.3	7.73	157.46	0.5725	250.4	6.47	169.34	0.5601	263.5	263.5		786.6	0.33	0.49	1.32	1.48	1.47	259.22	257.27	257.23	259.30	0.75	0.83	-56.3	0.050	1.20		0.01	0.01		0.00	258.37	258.35	258.35	258.35	0.03	2971.0	0.85
153D to 153C	RCP CL2 RRJ	39.05	825	0.535	0.30	333.3	7.40	160.38	0.4515	201.1	6.31	170.92	0.4437	210.7	210.7		786.6	0.27	0.39	1.25	1.39	1.47	259.41	257.43	257.32	259.22	0.75	0.78	1.3	0.050	0.92		0.01	0.01		0.01	258.38	258.38	258.37	258.37	0.02	4647.4	1.03
153E to 153D	RCP CL2 RRJ	30.90	825	0.535	0.30	333.3	7.14	162.70	0.3846	173.8	6.05	173.50	0.3768	181.6	181.6		786.6	0.23	0.34	1.20	1.33	1.47	259.36	257.58	257.48	259.41	0.75	0.66	0.0	0.050			0.01			0.00	258.39	258.39	258.38	258.38	0.01	7649.6	0.97
153F to 153E	RCP CL2 RRJ	12.06	600	0.283	0.30	333.3	7.04	163.61	0.3624	164.7	5.95	174.60	0.3546	172.0	172.0		336.5	0.51	0.61	1.20	1.41	1.19	259.58	257.84	257.80	259.36	0.75	0.69	44.5	0.225	1.55	1.56	0.02	0.03	0.03	0.01	258.42	258.40	258.39	258.39	0.06	1658.9	1.16
153G to 153F	RCP CL2 RRJ	52.10	525	0.216	0.40	250.0	6.61	167.90	0.2583	120.5	5.52	179.81	0.2508	125.3	125.3		272.1	0.46	0.58	1.23	1.33	1.26	259.86	258.12	257.91	259.58	0.75	0.86	45.8	0.075			0.02			0.05	258.45	258.45	258.42	258.42	0.06	1754.0	1.40
153H to 153G	RCP CL2 RRJ	24.80	375	0.110	0.40	250.0	6.40	169.97	0.2482	117.2	5.31	182.29	0.2406	121.8	121.8		110.9	1.10	1.10	1.10	1.51	1.00	259.98	258.37	258.27	259.86	0.75	0.77	-0.3	0.150	1.24		0.06	0.08		0.12	258.77	258.69	258.53	258.45	0.66	150.5	1.21
153I to 153H	RCP CL2 RRJ	17.00	375	0.110	0.40	250.0	6.26	171.39	0.1909	90.9	5.26	182.86	0.1846	93.7	93.7		110.9	0.85	0.85	1.13	1.36	1.00	260.08	258.49	258.42	259.98	0.75	0.90	-0.0	0.050	1.42		0.04	0.05		0.04	258.86	258.81	258.77	258.77	0.22	450.7	1.22
153J to 153I	RCP CL2 RRJ	20.06	300	0.071	2.60	38.5	6.09	173.06	0.1169	56.2	5.09	184.87	0.1106	56.8	56.8		156.0	0.36	0.80	2.03	1.24	2.21	260.18	259.08	258.56	260.08	0.75	0.76	-0.2	0.075	1.82		0.03	0.06		0.46	259.33	259.27	258.86	258.86	2.04	48.9	0.85
153K to 153J	RCP CL2 RRJ	11.29	300	0.071	0.50	200.0	6.00	174.00	0.0703	34.0	5.00	186.00	0.0639	33.0	34.0		68.4	0.50	0.48	0.97	1.04	0.97	260.34	259.19	259.13	260.18	0.75	0.72	0.3	0.050	7.00		0.01	0.08		0.04	259.43	259.35	259.33	259.33	0.16	643.5	0.91
164A to 150B	RCP CL2 RRJ	8.55	300	0.071	0.50	200.0	5.00	186.00	0.0303	15.7	5.00	186.00	0.0303	15.7	15.7		68.4	0.23	0.22	0.78	0.82	0.97	259.11	257.67	257.63	259.15	0.75	1.11	-92.7	0.050	3.26		0.00	0.01		0.00	258.54	258.53	258.53	258.55	0.03	3816.9	0.57

REV	REVISION	DES	DWG CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM NJB	18/05/21

Tomkinson
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COMPANY ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
1% AEP DRAINAGE HYDRAULIC DATA
MITCHEL

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 Minor 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

Minor 20% AEP Storm Event

Node Name (-)	Node Type (-)	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Grate RL (m)	Catch ID (-)	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc=CIA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc=CIA (L/s)	Approach Flow Qa (L/s)
130A	EDCM 1500x1200 JP SD607	319320.99	5849721.92	257.80	257.80												
130B	EDCM 1500x1200 GSEP SD603+607	319327.48	5849744.78	257.59	257.59	2P	5.00	87.70	0.57	0.0675	0.0388	0.0887	21.6	0.0388	0.0887	21.6	21.6
						3P	5.00	87.70	0.71	0.0700	0.0500			0.0500			
130C	EDCM 1500x900 GSEP SD603+607	319334.68	5849811.36	257.46	257.46	2P	5.00	87.70	0.57	0.0702	0.0403	0.0403	9.8	0.0403	0.0403	9.8	9.8
130D	EDCM 1500x900 GSEP SD603+607	319331.98	5849834.25	257.56	257.56	2P	5.00	87.70	0.57	0.0768	0.0441	0.1033	23.6	0.0441	0.0934	22.8	23.6
						4P	6.00	82.10	0.57	0.1031	0.0592			0.0493			
130E	EDCM 900x1200 GSEP SD601+607	319319.00	5849884.64	257.77	257.77	2P	5.00	87.70	0.57	0.0259	0.0149	0.0740	16.9	0.0149	0.0692	16.9	16.9
						3P	5.00	87.70	0.71	0.0430	0.0307			0.0307			
						4P	6.00	82.10	0.57	0.0494	0.0284			0.0237			
130F	EDCM 1500x900 GSEP SD603+607	319311.54	5849910.31	257.86	258.11	2P	5.00	87.70	0.57	0.0331	0.0190	0.0494	12.0	0.0190	0.0494	12.0	12.0
						3P	5.00	87.70	0.71	0.0426	0.0304			0.0304			
130G	EDCM 1500x900 GSEP SD603+607	319311.39	5849924.21	257.93	258.18	2P	5.00	87.70	0.57	0.0660	0.0379	0.0968	23.6	0.0379	0.0968	23.6	23.6
						3P	5.00	87.70	0.71	0.0825	0.0589			0.0589			
130H	EDCM 1500x900 GSEP SD603+607	319316.46	5849968.40	258.10	258.35	2P	5.00	87.70	0.57	0.0230	0.0132	0.0732	17.8	0.0132	0.0732	17.8	17.8
						3P	5.00	87.70	0.71	0.0840	0.0599			0.0599			
130I	EDCM 1500x900 GSEP SD603+607	319319.34	5849993.03	258.20	258.45	2P	5.00	87.70	0.57	0.1009	0.0579	0.1391	33.9	0.0579	0.1391	33.9	33.9
						3P	5.00	87.70	0.71	0.1137	0.0812			0.0812			
130J	EDCM 1500x1200 GSEP SD603+607	319325.77	5850046.95	258.43	258.68	2P	5.00	87.70	0.57	0.0238	0.0137	0.0677	16.5	0.0137	0.0677	16.5	16.5
						3P	5.00	87.70	0.71	0.0757	0.0540			0.0540			
130K	EDCM 900x600 GSEP SD601	319329.07	5850072.14	258.56	258.81	1P	12.00	60.94	0.71	1.4749	1.0531	1.0890	184.3	0.4388	0.4747	115.7	184.3
						2P	5.00	87.70	0.57	0.0626	0.0360			0.0360			
144A	EDCM 900x600 GSEP SD601	319327.40	5849894.57	257.99	257.99	2P	5.00	87.70	0.57	0.0518	0.0297	0.0547	13.3	0.0297	0.0547	13.3	13.3
						3P	5.00	87.70	0.71	0.0350	0.0250			0.0250			
144B	EDCM 900x600 GSEP SD601	319392.95	5849887.48	258.78	258.78	2P	5.00	87.70	0.57	0.0566	0.0325	0.1574	38.4	0.0325	0.1574	38.4	38.4
						3P	5.00	87.70	0.71	0.1750	0.1249			0.1249			
144C	EDCM 900x600 JP SD605	319453.70	5849880.91	259.51	259.51	3P	5.00	87.70	0.71	0.0700	0.0500	0.0500	12.2	0.0500	0.0500	12.2	12.2
145A	EDCM 900x600 GSEP SD601	319328.32	5849903.03	257.99	257.99	2P	5.00	87.70	0.57	0.0557	0.0320	0.1085	26.4	0.0320	0.1085	26.4	26.4
						3P	5.00	87.70	0.71	0.1072	0.0765			0.0765			
145B	EDCM 900x600 GSEP SD601	319396.45	5849895.65	258.82	258.82	2P	5.00	87.70	0.57	0.0569	0.0327	0.1618	39.4	0.0327	0.1618	39.4	39.4
						3P	5.00	87.70	0.71	0.1808	0.1291			0.1291			
145C	EDCM 900x600 JP SD605	319454.61	5849889.36	259.51	259.51	3P	5.00	87.70	0.71	0.0736	0.0526	0.0526	12.8	0.0526	0.0526	12.8	12.8
146A	EDCM 900x600 GSEP SD601	319319.84	5849903.94	257.88	257.88	2P	5.00	87.70	0.57	0.0071	0.0041	0.0041	1.0	0.0041	0.0041	1.0	1.0
147A	EDCM 900x900 GSEP SD601+607	319325.88	5849975.51	258.31	258.31	2P	5.00	87.70	0.57	0.0474	0.0272	0.0558	13.6	0.0272	0.0558	13.6	13.6
						3P	5.00	87.70	0.71	0.0400	0.0286			0.0286			
147B	EDCM 900x600 GSEP SD601	319383.69	5849969.25	259.24	259.24	2P	5.00	87.70	0.57	0.0436	0.0251	0.1496	36.4	0.0251	0.1496	36.4	36.4
						3P	5.00	87.70	0.71	0.1744	0.1245			0.1245			
147C	EDCM 900x600 GSEP SD601	319436.93	5849963.49	259.72	259.72	2P	5.00	87.70	0.57	0.0280	0.0161	0.0926	22.6	0.0161	0.0926	22.6	22.6
						3P	5.00	87.70	0.71	0.1072	0.0765			0.0765			
147D	EDCM 900x600 JP SD605	319463.28	5849960.64	259.95	259.95	3P	5.00	87.70	0.71	0.0400	0.0286	0.0286	7.0	0.0286	0.0286	7.0	7.0
148A	EDCM 900x600 GSEP SD601	319327.00	5849983.94	258.31	258.31	2P	5.00	87.70	0.57	0.0455	0.0261	0.0547	13.3	0.0261	0.0547	13.3	13.3
						3P	5.00	87.70	0.71	0.0400	0.0286			0.0286			
148B	EDCM 900x600 GSEP SD601	319384.61	5849977.70	259.24	259.24	2P	5.00	87.70	0.57	0.0243	0.0140	0.0711	17.3	0.0140	0.0711	17.3	17.3
						3P	5.00	87.70	0.71	0.0800	0.0571			0.0571			
148C	EDCM 900x600 GSEP SD601	319415.43	5849974.37	259.52	259.52	2P	5.00	87.70	0.57	0.0073	0.0042	0.0042	1.0	0.0042	0.0042	1.0	1.0
148D	EDCM 900x600 GSEP SD601	319424.41	5849981.60	259.43	259.43	2P	5.00	87.70	0.57	0.0073	0.0042	0.0591	14.4	0.0042	0.0591	14.4	14.4
						3P	5.00	87.70	0.71	0.0769	0.0549			0.0549			
148E	EDCM 900x600 GSEP SD601	319432.86	5849980.68	259.43	259.43	2P	5.00	87.70	0.57	0.0139	0.0080	0.0374	9.1	0.0080	0.0374	9.1	9.1
						3P	5.00	87.70	0.71	0.0411	0.0294			0.0294			
148F	EDCM 900x600 GSEP SD601	319440.08	5849971.70	259.74	259.74	2P	5.00	87.70	0.57	0.0253	0.0145	0.0145	3.5	0.0145	0.0145	3.5	3.5

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 Minor 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

Minor 20% AEP Storm Event

Node Name (-)	Node Type (-)	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Grate RL (m)	Catch ID (-)	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc=CIA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc=CIA (L/s)	Approach Flow Qa (L/s)
149A	EDCM 900x600 JP SD605	319428.65	5850020.77	259.23	259.23	3P	5.00	87.70	0.71	0.0750	0.0535	0.0535	13.0	0.0535	0.0535	13.0	13.0
150A	EDCM 900x600 GSEP SD601	319430.31	5850036.18	259.15	259.15	2P	5.00	87.70	0.57	0.0431	0.0247	0.0528	12.9	0.0247	0.0528	12.9	12.9
						3P	5.00	87.70	0.71	0.0393	0.0281			0.0281			
150B	EDCM 900x600 GSEP SD601	319438.72	5850034.87	259.15	259.15	2P	5.00	87.70	0.57	0.0444	0.0255	0.0975	23.7	0.0255	0.0975	23.7	23.7
						3P	5.00	87.70	0.71	0.1008	0.0720			0.0720			
150C	EDCM 900x600 JP SD605	319434.20	5849993.11	259.36	259.36	3P	5.00	87.70	0.71	0.0672	0.0480	0.0480	11.7	0.0480	0.0480	11.7	11.7
151A	EDCM 1500x1200 GSEP SD603+607	319335.16	5850054.67	258.53	258.78	2P	5.00	87.70	0.57	0.0106	0.0061	0.0061	1.5	0.0061	0.0061	1.5	1.5
151B	EDCM 1200x1200 GSEP SD601+607	319348.62	5850053.21	258.60	258.85	2P	5.00	87.70	0.57	0.0588	0.0337	0.1194	29.1	0.0337	0.1194	29.1	29.1
						3P	5.00	87.70	0.71	0.1200	0.0857			0.0857			
151C	EDCM 900x1200 GSEP SD601+607	319357.99	5850060.75	258.64	258.89	2P	5.00	87.70	0.57	0.0541	0.0311	0.1461	35.6	0.0311	0.1461	35.6	35.6
						3P	5.00	87.70	0.71	0.1610	0.1150			0.1150			
151D	EDCM 900x1200 GSEP SD601+607	319423.37	5850053.33	258.94	259.19	2P	5.00	87.70	0.57	0.0147	0.0085	0.0376	8.6	0.0085	0.0327	8.0	8.6
						4P	6.00	82.10	0.57	0.0508	0.0291			0.0243			
151E	EDCM 900x1200 GSEP SD601+607	319432.98	5850060.83	259.03	259.28												0.0
151F	EDCM 900x900 GSEP SD601+607	319433.92	5850069.48	258.98	259.23	2P	5.00	87.70	0.57	0.0299	0.0172	0.0172	4.2	0.0172	0.0172	4.2	4.2
151G	EDCM 900x900 GSEP SD601+607	319437.35	5850099.84	259.13	259.38	2P	5.00	87.70	0.57	0.0125	0.0072	0.0072	1.8	0.0072	0.0072	1.8	1.8
151H	EDCM 900x900 GSEP SD601+607	319439.07	5850115.70	259.21	259.46	2P	5.00	87.70	0.57	0.0137	0.0079	0.0079	1.9	0.0079	0.0079	1.9	1.9
151I	EDCM 900x900 GSEP SD601+607	319441.73	5850140.35	259.12	259.37	2P	5.00	87.70	0.57	0.0441	0.0253	0.1135	27.7	0.0253	0.1135	27.7	27.7
						3P	5.00	87.70	0.71	0.1235	0.0882			0.0882			
151J	EDCM 900x600 GSEP SD601	319445.84	5850179.74	259.33	259.58	2P	5.00	87.70	0.57	0.0287	0.0164	0.1033	25.2	0.0164	0.1033	25.2	25.2
						3P	5.00	87.70	0.71	0.1217	0.0869			0.0869			
151K	EDCM 900x600 GSEP SD601	319449.77	5850216.03	259.51	259.51	2P	5.00	87.70	0.57	0.0138	0.0079	0.0666	16.2	0.0079	0.0666	16.2	16.2
						3P	5.00	87.70	0.71	0.0822	0.0587			0.0587			
151L	EDCM 900x600 GSEP SD601	319442.54	5850225.01	259.74	259.74	2P	5.00	87.70	0.57	0.0268	0.0154	0.0154	3.8	0.0154	0.0154	3.8	3.8
152A	EDCM 900x600 GSEP SD601	319336.28	5850063.10	258.53	258.53	2P	5.00	87.70	0.57	0.0178	0.0102	0.0421	10.3	0.0102	0.0421	10.3	10.3
						3P	5.00	87.70	0.71	0.0446	0.0319			0.0319			
153A	EDCM 1500x900 GSEP SD603+607	319422.53	5850045.57	258.94	259.19	2P	5.00	87.70	0.57	0.0138	0.0079	0.0079	1.9	0.0079	0.0079	1.9	1.9
153B	EDCM 1200x1200 GSEP SD601+607	319440.98	5850055.74	259.05	259.30	2P	5.00	87.70	0.57	0.0171	0.0098	0.0338	8.2	0.0098	0.0338	8.2	8.2
						3P	5.00	87.70	0.71	0.0336	0.0240			0.0240			
153C	EDCM 900x1200 GSEP SD601+607	319442.07	5850068.60	258.97	259.22	2P	5.00	87.70	0.57	0.0415	0.0238	0.0958	23.3	0.0238	0.0958	23.3	23.3
						3P	5.00	87.70	0.71	0.1008	0.0720			0.0720			
153D	EDCM 900x1200 GSEP SD601+607	319446.27	5850107.43	259.16	259.41	2P	5.00	87.70	0.57	0.0087	0.0050	0.0530	12.9	0.0050	0.0530	12.9	12.9
						3P	5.00	87.70	0.71	0.0672	0.0480			0.0480			
153E	EDCM 1200x1200 GSEP SD601+607	319449.59	5850138.15	259.11	259.36	2P	5.00	87.70	0.57	0.0306	0.0176	0.0176	4.3	0.0176	0.0176	4.3	4.3
153F	EDCM 900x1200 GSEP SD601+607	319458.92	5850145.79	259.33	259.58	2P	5.00	87.70	0.57	0.0425	0.0244	0.0824	18.8	0.0244	0.0780	19.0	19.0
						3P	5.00	87.70	0.71	0.0448	0.0320			0.0320			
						4P	6.00	82.10	0.57	0.0453	0.0260			0.0217			
153G	EDCM 900x900 GSEP SD601+607	319510.68	5850139.89	259.61	259.86	2P	5.00	87.70	0.57	0.0140	0.0080	0.0080	2.0	0.0080	0.0080	2.0	2.0
153H	EDCM 900x600 GSEP SD601	319535.34	5850137.22	259.73	259.98	2P	5.00	87.70	0.57	0.0267	0.0153	0.0453	11.0	0.0153	0.0453	11.0	11.0
						3P	5.00	87.70	0.71	0.0420	0.0300			0.0300			
153I	EDCM 900x600 GSEP SD601	319552.24	5850135.40	259.83	260.08	2P	5.00	87.70	0.57	0.0132	0.0076	0.0585	14.3	0.0076	0.0585	14.3	14.3
						3P	5.00	87.70	0.71	0.0714	0.0510			0.0510			
153J	EDCM 900x600 GSEP SD601	319572.19	5850133.33	260.18	260.18	2P	5.00	87.70	0.57	0.0200	0.0115	0.0370	9.0	0.0115	0.0370	9.0	9.0
						3P	5.00	87.70	0.71	0.0357	0.0255			0.0255			
153K	EDCM 900x600 GSEP SD601	319583.42	5850132.12	260.34	260.34	3P	5.00	87.70	0.71	0.0357	0.0255	0.0556	12.7	0.0255	0.0506	12.3	12.7
						4P	6.00	82.10	0.57	0.0525	0.0301			0.0251			
164A	EDCM 900x600 JP SD605	319439.64	5850043.37	259.11	259.11	3P	5.00	87.70	0.71	0.0336	0.0240	0.0240	5.8	0.0240	0.0240	5.8	5.8

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
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COMPASS ASSURANCE ISO 9001 QUALITY

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WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
20% AEP DRAINAGE HYDROLOGICAL DATA
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R32 / 34
REV: A

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12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 5AEP 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

5% AEP Storm Event

Node Name (-)	Node Type (-)	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Grate RL (m)	Catch ID (-)	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc=CIA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc=CIA (L/s)	Approach Flow Qa (L/s)
130A	EDCM 1500x1200 JP SD607	319320.99	5849721.92	257.80	257.80												
130B	EDCM 1500x1200 GSEP SD603+607	319327.48	5849744.78	257.59	257.59	2P	5.00	128.00	0.72	0.0675	0.0490	0.1121	39.9	0.0490	0.1121	39.9	39.9
						3P	5.00	128.00	0.90	0.0700	0.0631			0.0631			
130C	EDCM 1500x900 GSEP SD603+607	319334.68	5849811.36	257.46	257.46	2P	5.00	128.00	0.72	0.0702	0.0509	0.0509	18.1	0.0509	0.0509	18.1	18.1
130D	EDCM 1500x900 GSEP SD603+607	319331.98	5849834.25	257.56	257.56	2P	5.00	128.00	0.72	0.0768	0.0557	0.1305	43.5	0.0557	0.1180	42.0	43.5
						4P	6.00	120.00	0.72	0.1031	0.0748			0.0623			
130E	EDCM 900x1200 GSEP SD601+607	319319.00	5849884.64	257.77	257.77	2P	5.00	128.00	0.72	0.0259	0.0188	0.0934	31.1	0.0188	0.0874	31.1	31.1
						3P	5.00	128.00	0.90	0.0430	0.0388			0.0388			
						4P	6.00	120.00	0.72	0.0494	0.0358			0.0299			
130F	EDCM 1500x900 GSEP SD603+607	319311.54	5849910.31	257.86	258.11	2P	5.00	128.00	0.72	0.0331	0.0240	0.0624	22.2	0.0240	0.0624	22.2	22.2
						3P	5.00	128.00	0.90	0.0426	0.0384			0.0384			
130G	EDCM 1500x900 GSEP SD603+607	319311.39	5849924.21	257.93	258.18	2P	5.00	128.00	0.72	0.0660	0.0478	0.1223	43.5	0.0478	0.1223	43.5	43.5
						3P	5.00	128.00	0.90	0.0825	0.0744			0.0744			
130H	EDCM 1500x900 GSEP SD603+607	319316.46	5849968.40	258.10	258.35	2P	5.00	128.00	0.72	0.0230	0.0167	0.0924	32.9	0.0167	0.0924	32.9	32.9
						3P	5.00	128.00	0.90	0.0840	0.0757			0.0757			
130I	EDCM 1500x900 GSEP SD603+607	319319.34	5849993.03	258.20	258.45	2P	5.00	128.00	0.72	0.1009	0.0732	0.1758	62.5	0.0732	0.1758	62.5	62.5
						3P	5.00	128.00	0.90	0.1137	0.1026			0.1026			
130J	EDCM 1500x1200 GSEP SD603+607	319325.77	5850046.95	258.43	258.68	2P	5.00	128.00	0.72	0.0238	0.0172	0.0855	30.4	0.0172	0.0855	30.4	30.4
						3P	5.00	128.00	0.90	0.0757	0.0683			0.0683			
130K	EDCM 900x600 GSEP SD601	319329.07	5850072.14	258.56	258.81	1P	12.00	89.42	0.85	1.4749	1.2537	1.2991	322.7	0.5224	0.5678	201.9	322.7
						2P	5.00	128.00	0.72	0.0626	0.0454			0.0454			
144A	EDCM 900x600 GSEP SD601	319327.40	5849894.57	257.99	257.99	2P	5.00	128.00	0.72	0.0518	0.0375	0.0691	24.6	0.0375	0.0691	24.6	24.6
						3P	5.00	128.00	0.90	0.0350	0.0316			0.0316			
144B	EDCM 900x600 GSEP SD601	319392.95	5849887.48	258.78	258.78	2P	5.00	128.00	0.72	0.0566	0.0410	0.1989	70.7	0.0410	0.1989	70.7	70.7
						3P	5.00	128.00	0.90	0.1750	0.1578			0.1578			
144C	EDCM 900x600 JP SD605	319453.70	5849880.91	259.51	259.51	3P	5.00	128.00	0.90	0.0700	0.0631	0.0631	22.4	0.0631	0.0631	22.4	22.4
145A	EDCM 900x600 GSEP SD601	319328.32	5849903.03	257.99	257.99	2P	5.00	128.00	0.72	0.0557	0.0404	0.1371	48.7	0.0404	0.1371	48.7	48.7
						3P	5.00	128.00	0.90	0.1072	0.0967			0.0967			
145B	EDCM 900x600 GSEP SD601	319396.45	5849895.65	258.82	258.82	2P	5.00	128.00	0.72	0.0569	0.0413	0.2044	72.7	0.0413	0.2044	72.7	72.7
						3P	5.00	128.00	0.90	0.1808	0.1631			0.1631			
145C	EDCM 900x600 JP SD605	319454.61	5849889.36	259.51	259.51	3P	5.00	128.00	0.90	0.0736	0.0664	0.0664	23.6	0.0664	0.0664	23.6	23.6
146A	EDCM 900x600 GSEP SD601	319319.84	5849903.94	257.88	257.88	2P	5.00	128.00	0.72	0.0071	0.0051	0.0051	1.8	0.0051	0.0051	1.8	1.8
147A	EDCM 900x900 GSEP SD601+607	319325.88	5849975.51	258.31	258.31	2P	5.00	128.00	0.72	0.0474	0.0344	0.0704	25.0	0.0344	0.0704	25.0	25.0
						3P	5.00	128.00	0.90	0.0400	0.0361			0.0361			
147B	EDCM 900x600 GSEP SD601	319383.69	5849969.25	259.24	259.24	2P	5.00	128.00	0.72	0.0436	0.0316	0.1890	67.2	0.0316	0.1890	67.2	67.2
						3P	5.00	128.00	0.90	0.1744	0.1573			0.1573			
147C	EDCM 900x600 GSEP SD601	319436.93	5849963.49	259.72	259.72	2P	5.00	128.00	0.72	0.0280	0.0203	0.1170	41.6	0.0203	0.1170	41.6	41.6
						3P	5.00	128.00	0.90	0.1072	0.0967			0.0967			
147D	EDCM 900x600 JP SD605	319463.28	5849960.64	259.95	259.95	3P	5.00	128.00	0.90	0.0400	0.0361	0.0361	12.8	0.0361	0.0361	12.8	12.8
148A	EDCM 900x600 GSEP SD601	319327.00	5849983.94	258.31	258.31	2P	5.00	128.00	0.72	0.0455	0.0330	0.0691	24.6	0.0330	0.0691	24.6	24.6
						3P	5.00	128.00	0.90	0.0400	0.0361			0.0361			
148B	EDCM 900x600 GSEP SD601	319384.61	5849977.70	259.24	259.24	2P	5.00	128.00	0.72	0.0243	0.0176	0.0898	31.9	0.0176	0.0898	31.9	31.9
						3P	5.00	128.00	0.90	0.0800	0.0722			0.0722			
148C	EDCM 900x600 GSEP SD601	319415.43	5849974.37	259.52	259.52	2P	5.00	128.00	0.72	0.0073	0.0053	0.0053	1.9	0.0053	0.0053	1.9	1.9
148D	EDCM 900x600 GSEP SD601	319424.41	5849981.60	259.43	259.43	2P	5.00	128.00	0.72	0.0073	0.0053	0.0746	26.5	0.0053	0.0746	26.5	26.5
						3P	5.00	128.00	0.90	0.0769	0.0693			0.0693			
148E	EDCM 900x600 GSEP SD601	319432.86	5849980.68	259.43	259.43	2P	5.00	128.00	0.72	0.0139	0.0101	0.0472	16.8	0.0101	0.0472	16.8	16.8
						3P	5.00	128.00	0.90	0.0411	0.0371			0.0371			
148F	EDCM 900x600 GSEP SD601	319440.08	5849971.70	259.74	259.74	2P	5.00	128.00	0.72	0.0253	0.0183	0.0183	6.5	0.0183	0.0183	6.5	6.5

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 5AEP 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

5% AEP Storm Event

Node Name (-)	Node Type (-)	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Grate RL (m)	Catch ID (-)	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc=CIA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc=CIA (L/s)	Approach Flow Qa (L/s)
149A	EDCM 900x600 JP SD605	319428.65	5850020.77	259.23	259.23	3P	5.00	128.00	0.90	0.0750	0.0677	0.0677	24.1	0.0677	0.0677	24.1	24.1
150A	EDCM 900x600 GSEP SD601	319430.31	5850036.18	259.15	259.15	2P	5.00	128.00	0.72	0.0431	0.0312	0.0667	23.7	0.0312	0.0667	23.7	23.7
						3P	5.00	128.00	0.90	0.0393	0.0354			0.0354			
150B	EDCM 900x600 GSEP SD601	319438.72	5850034.87	259.15	259.15	2P	5.00	128.00	0.72	0.0444	0.0322	0.1231	43.8	0.0322	0.1231	43.8	43.8
						3P	5.00	128.00	0.90	0.1008	0.0909			0.0909			
150C	EDCM 900x600 JP SD605	319434.20	5849993.11	259.36	259.36	3P	5.00	128.00	0.90	0.0672	0.0606	0.0606	21.6	0.0606	0.0606	21.6	21.6
151A	EDCM 1500x1200 GSEP SD603+607	319335.16	5850054.67	258.53	258.78	2P	5.00	128.00	0.72	0.0106	0.0077	0.0077	2.7	0.0077	0.0077	2.7	2.7
151B	EDCM 1200x1200 GSEP SD601+607	319348.62	5850053.21	258.60	258.85	2P	5.00	128.00	0.72	0.0588	0.0426	0.1509	53.6	0.0426	0.1509	53.6	53.6
						3P	5.00	128.00	0.90	0.1200	0.1082			0.1082			
151C	EDCM 900x1200 GSEP SD601+607	319357.99	5850060.75	258.64	258.89	2P	5.00	128.00	0.72	0.0541	0.0392	0.1845	65.6	0.0392	0.1845	65.6	65.6
						3P	5.00	128.00	0.90	0.1610	0.1453			0.1453			
151D	EDCM 900x1200 GSEP SD601+607	319423.37	5850053.33	258.94	259.19	2P	5.00	128.00	0.72	0.0147	0.0107	0.0475	15.8	0.0107	0.0413	14.7	15.8
						4P	6.00	120.00	0.72	0.0508	0.0368			0.0307			
151E	EDCM 900x1200 GSEP SD601+607	319432.98	5850060.83	259.03	259.28												0.0
151F	EDCM 900x900 GSEP SD601+607	319433.92	5850069.48	258.98	259.23	2P	5.00	128.00	0.72	0.0299	0.0217	0.0217	7.7	0.0217	0.0217	7.7	7.7
151G	EDCM 900x900 GSEP SD601+607	319437.35	5850099.84	259.13	259.38	2P	5.00	128.00	0.72	0.0125	0.0091	0.0091	3.2	0.0091	0.0091	3.2	3.2
151H	EDCM 900x900 GSEP SD601+607	319439.07	5850115.70	259.21	259.46	2P	5.00	128.00	0.72	0.0137	0.0100	0.0100	3.5	0.0100	0.0100	3.5	3.5
151I	EDCM 900x900 GSEP SD601+607	319441.73	5850140.35	259.12	259.37	2P	5.00	128.00	0.72	0.0441	0.0320	0.1434	51.0	0.0320	0.1434	51.0	51.0
						3P	5.00	128.00	0.90	0.1235	0.1114			0.1114			
151J	EDCM 900x600 GSEP SD601	319445.84	5850179.74	259.33	259.58	2P	5.00	128.00	0.72	0.0287	0.0208	0.1305	46.4	0.0208	0.1305	46.4	46.4
						3P	5.00	128.00	0.90	0.1217	0.1098			0.1098			
151K	EDCM 900x600 GSEP SD601	319449.77	5850216.03	259.51	259.51	2P	5.00	128.00	0.72	0.0138	0.0100	0.0841	29.9	0.0100	0.0841	29.9	29.9
						3P	5.00	128.00	0.90	0.0822	0.0741			0.0741			
151L	EDCM 900x600 GSEP SD601	319442.54	5850225.01	259.74	259.74	2P	5.00	128.00	0.72	0.0268	0.0195	0.0195	6.9	0.0195	0.0195	6.9	6.9
152A	EDCM 900x600 GSEP SD601	319336.28	5850063.10	258.53	258.53	2P	5.00	128.00	0.72	0.0178	0.0129	0.0532	18.9	0.0129	0.0532	18.9	18.9
						3P	5.00	128.00	0.90	0.0446	0.0403			0.0403			
153A	EDCM 1500x900 GSEP SD603+607	319422.53	5850045.57	258.94	259.19	2P	5.00	128.00	0.72	0.0138	0.0100	0.0100	3.5	0.0100	0.0100	3.5	3.5
153B	EDCM 1200x1200 GSEP SD601+607	319440.98	5850055.74	259.05	259.30	2P	5.00	128.00	0.72	0.0171	0.0124	0.0427	15.2	0.0124	0.0427	15.2	15.2
						3P	5.00	128.00	0.90	0.0336	0.0303			0.0303			
153C	EDCM 900x1200 GSEP SD601+607	319442.07	5850068.60	258.97	259.22	2P	5.00	128.00	0.72	0.0415	0.0301	0.1210	43.0	0.0301	0.1210	43.0	43.0
						3P	5.00	128.00	0.90	0.1008	0.0909			0.0909			
153D	EDCM 900x1200 GSEP SD601+607	319446.27	5850107.43	259.16	259.41	2P	5.00	128.00	0.72	0.0087	0.0063	0.0669	23.8	0.0063	0.0669	23.8	23.8
						3P	5.00	128.00	0.90	0.0672	0.0606			0.0606			
153E	EDCM 1200x1200 GSEP SD601+607	319449.59	5850138.15	259.11	259.36	2P	5.00	128.00	0.72	0.0306	0.0222	0.0222	7.9	0.0222	0.0222	7.9	7.9
153F	EDCM 900x1200 GSEP SD601+607	319458.92	5850145.79	259.33	259.58	2P	5.00	128.00	0.72	0.0425	0.0308	0.1040	34.7	0.0308	0.0986	35.0	35.0
						3P	5.00	128.00	0.90	0.0448	0.0404			0.0404			
						4P	6.00	120.00	0.72	0.0453	0.0328			0.0274			
153G	EDCM 900x900 GSEP SD601+607	319510.68	5850139.89	259.61	259.86	2P	5.00	128.00	0.72	0.0140	0.0102	0.0102	3.6	0.0102	0.0102	3.6	3.6
153H	EDCM 900x600 GSEP SD601	319535.34	5850137.22	259.73	259.98	2P	5.00	128.00	0.72	0.0267	0.0193	0.0573	20.4	0.0193	0.0573	20.4	20.4
						3P	5.00	128.00	0.90	0.0420	0.0379			0.0379			
153I	EDCM 900x600 GSEP SD601	319552.24	5850135.40	259.83	260.08	2P	5.00	128.00	0.72	0.0132	0.0096	0.0740	26.3	0.0096	0.0740	26.3	26.3
						3P	5.00	128.00	0.90	0.0714	0.0644			0.0644			
153J	EDCM 900x600 GSEP SD601	319572.19	5850133.33	260.18	260.18	2P	5.00	128.00	0.72	0.0200	0.0145	0.0467	16.6	0.0145	0.0467	16.6	16.6
						3P	5.00	128.00	0.90	0.0357	0.0322			0.0322			
153K	EDCM 900x600 GSEP SD601	319583.42	5850132.12	260.34	260.34	3P	5.00	128.00	0.90	0.0357	0.0322	0.0703	23.4	0.0322	0.0639	22.7	23.4
						4P	6.00	120.00	0.72	0.0525	0.0381			0.0317			
164A	EDCM 900x600 JP SD605	319439.64	5850043.37	259.11	259.11	3P	5.00	128.00	0.90	0.0336	0.0303	0.0303	10.8	0.0303	0.0303	10.8	10.8

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
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SCALE N/A
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COMPASS ASSURANCE ISO 9001 QUALITY

OORANYA ESTATE - STAGE 8
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
5% AEP DRAINAGE HYDROLOGICAL DATA
MITCHELL SHIRE COUNCIL # REF: PLP033/19
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: S148808R33 / 34
REV: A

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12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 Major 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

Major 1% AEP Storm Event

Node Name (-)	Node Type (-)	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Grate RL (m)	Catch ID (-)	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc=CIA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc=CIA (L/s)	Approach Flow Qa (L/s)
130A	EDCM 1500x1200 JP SD607	319320.99	5849721.92	257.80	257.80												
130B	EDCM 1500x1200 GSEP SD603+607	319327.48	5849744.78	257.59	257.59	2P	5.00	186.00	0.72	0.0675	0.0490	0.1121	57.9	0.0490	0.1121	57.9	57.9
						3P	5.00	186.00	0.90	0.0700	0.0631			0.0631			
130C	EDCM 1500x900 GSEP SD603+607	319334.68	5849811.36	257.46	257.46	2P	5.00	186.00	0.72	0.0702	0.0509	0.0509	26.3	0.0509	0.0509	26.3	26.3
130D	EDCM 1500x900 GSEP SD603+607	319331.98	5849834.25	257.56	257.56	2P	5.00	186.00	0.72	0.0768	0.0557	0.1305	63.1	0.0557	0.1180	61.0	63.1
						4P	6.00	174.00	0.72	0.1031	0.0748			0.0623			
130E	EDCM 900x1200 GSEP SD601+607	319319.00	5849884.64	257.77	257.77	2P	5.00	186.00	0.72	0.0259	0.0188	0.0934	45.1	0.0188	0.0874	45.2	45.2
						3P	5.00	186.00	0.90	0.0430	0.0388			0.0388			
						4P	6.00	174.00	0.72	0.0494	0.0358			0.0299			
130F	EDCM 1500x900 GSEP SD603+607	319311.54	5849910.31	257.86	258.11	2P	5.00	186.00	0.72	0.0331	0.0240	0.0624	32.3	0.0240	0.0624	32.3	32.3
						3P	5.00	186.00	0.90	0.0426	0.0384			0.0384			
130G	EDCM 1500x900 GSEP SD603+607	319311.39	5849924.21	257.93	258.18	2P	5.00	186.00	0.72	0.0660	0.0478	0.1223	63.2	0.0478	0.1223	63.2	63.2
						3P	5.00	186.00	0.90	0.0825	0.0744			0.0744			
130H	EDCM 1500x900 GSEP SD603+607	319316.46	5849968.40	258.10	258.35	2P	5.00	186.00	0.72	0.0230	0.0167	0.0924	47.8	0.0167	0.0924	47.8	47.8
						3P	5.00	186.00	0.90	0.0840	0.0757			0.0757			
130I	EDCM 1500x900 GSEP SD603+607	319319.34	5849993.03	258.20	258.45	2P	5.00	186.00	0.72	0.1009	0.0732	0.1758	90.8	0.0732	0.1758	90.8	90.8
						3P	5.00	186.00	0.90	0.1137	0.1026			0.1026			
130J	EDCM 1500x1200 GSEP SD603+607	319325.77	5850046.95	258.43	258.68	2P	5.00	186.00	0.72	0.0238	0.0172	0.0855	44.2	0.0172	0.0855	44.2	44.2
						3P	5.00	186.00	0.90	0.0757	0.0683			0.0683			
130K	EDCM 900x600 GSEP SD601	319329.07	5850072.14	258.56	258.81	1P	12.00	129.20	0.85	1.4749	1.2537	1.2991	466.2	0.5224	0.5678	293.4	466.2
						2P	5.00	186.00	0.72	0.0626	0.0454			0.0454			
144A	EDCM 900x600 GSEP SD601	319327.40	5849894.57	257.99	257.99	2P	5.00	186.00	0.72	0.0518	0.0375	0.0691	35.7	0.0375	0.0691	35.7	35.7
						3P	5.00	186.00	0.90	0.0350	0.0316			0.0316			
144B	EDCM 900x600 GSEP SD601	319392.95	5849887.48	258.78	258.78	2P	5.00	186.00	0.72	0.0566	0.0410	0.1989	102.8	0.0410	0.1989	102.8	102.8
						3P	5.00	186.00	0.90	0.1750	0.1578			0.1578			
144C	EDCM 900x600 JP SD605	319453.70	5849880.91	259.51	259.51	3P	5.00	186.00	0.90	0.0700	0.0631	0.0631	32.6	0.0631	0.0631	32.6	32.6
145A	EDCM 900x600 GSEP SD601	319328.32	5849903.03	257.99	257.99	2P	5.00	186.00	0.72	0.0557	0.0404	0.1371	70.8	0.0404	0.1371	70.8	70.8
						3P	5.00	186.00	0.90	0.1072	0.0967			0.0967			
145B	EDCM 900x600 GSEP SD601	319396.45	5849895.65	258.82	258.82	2P	5.00	186.00	0.72	0.0569	0.0413	0.2044	105.6	0.0413	0.2044	105.6	105.6
						3P	5.00	186.00	0.90	0.1808	0.1631			0.1631			
145C	EDCM 900x600 JP SD605	319454.61	5849889.36	259.51	259.51	3P	5.00	186.00	0.90	0.0736	0.0664	0.0664	34.3	0.0664	0.0664	34.3	34.3
146A	EDCM 900x600 GSEP SD601	319319.84	5849903.94	257.88	257.88	2P	5.00	186.00	0.72	0.0071	0.0051	0.0051	2.6	0.0051	0.0051	2.6	2.6
147A	EDCM 900x900 GSEP SD601+607	319325.88	5849975.51	258.31	258.31	2P	5.00	186.00	0.72	0.0474	0.0344	0.0704	36.4	0.0344	0.0704	36.4	36.4
						3P	5.00	186.00	0.90	0.0400	0.0361			0.0361			
147B	EDCM 900x600 GSEP SD601	319383.69	5849969.25	259.24	259.24	2P	5.00	186.00	0.72	0.0436	0.0316	0.1890	97.6	0.0316	0.1890	97.6	97.6
						3P	5.00	186.00	0.90	0.1744	0.1573			0.1573			
147C	EDCM 900x600 GSEP SD601	319436.93	5849963.49	259.72	259.72	2P	5.00	186.00	0.72	0.0280	0.0203	0.1170	60.5	0.0203	0.1170	60.5	60.5
						3P	5.00	186.00	0.90	0.1072	0.0967			0.0967			
147D	EDCM 900x600 JP SD605	319463.28	5849960.64	259.95	259.95	3P	5.00	186.00	0.90	0.0400	0.0361	0.0361	18.6	0.0361	0.0361	18.6	18.6
148A	EDCM 900x600 GSEP SD601	319327.00	5849983.94	258.31	258.31	2P	5.00	186.00	0.72	0.0455	0.0330	0.0691	35.7	0.0330	0.0691	35.7	35.7
						3P	5.00	186.00	0.90	0.0400	0.0361			0.0361			
148B	EDCM 900x600 GSEP SD601	319384.61	5849977.70	259.24	259.24	2P	5.00	186.00	0.72	0.0243	0.0176	0.0898	46.4	0.0176	0.0898	46.4	46.4
						3P	5.00	186.00	0.90	0.0800	0.0722			0.0722			
148C	EDCM 900x600 GSEP SD601	319415.43	5849974.37	259.52	259.52	2P	5.00	186.00	0.72	0.0073	0.0053	0.0053	2.7	0.0053	0.0053	2.7	2.7
148D	EDCM 900x600 GSEP SD601	319424.41	5849981.60	259.43	259.43	2P	5.00	186.00	0.72	0.0073	0.0053	0.0746	38.6	0.0053	0.0746	38.6	38.6
						3P	5.00	186.00	0.90	0.0769	0.0693			0.0693			
148E	EDCM 900x600 GSEP SD601	319432.86	5849980.68	259.43	259.43	2P	5.00	186.00	0.72	0.0139	0.0101	0.0472	24.4	0.0101	0.0472	24.4	24.4
						3P	5.00	186.00	0.90	0.0411	0.0371			0.0371			
148F	EDCM 900x600 GSEP SD601	319440.08	5849971.70	259.74	259.74	2P	5.00	186.00	0.72	0.0253	0.0183	0.0183	9.5	0.0183	0.0183	9.5	9.5

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
Drainage Model: stg8 Major 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

Major 1% AEP Storm Event

Node Name (-)	Node Type (-)	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Grate RL (m)	Catch ID (-)	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc=CIA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc=CIA (L/s)	Approach Flow Qa (L/s)
149A	EDCM 900x600 JP SD605	319428.65	5850020.77	259.23	259.23	3P	5.00	186.00	0.90	0.0750	0.0677	0.0677	35.0	0.0677	0.0677	35.0	35.0
150A	EDCM 900x600 GSEP SD601	319430.31	5850036.18	259.15	259.15	2P	5.00	186.00	0.72	0.0431	0.0312	0.0667	34.5	0.0312	0.0667	34.5	34.5
						3P	5.00	186.00	0.90	0.0393	0.0354			0.0354			
150B	EDCM 900x600 GSEP SD601	319438.72	5850034.87	259.15	259.15	2P	5.00	186.00	0.72	0.0444	0.0322	0.1231	63.6	0.0322	0.1231	63.6	63.6
						3P	5.00	186.00	0.90	0.1008	0.0909			0.0909			
150C	EDCM 900x600 JP SD605	319434.20	5849993.11	259.36	259.36	3P	5.00	186.00	0.90	0.0672	0.0606	0.0606	31.3	0.0606	0.0606	31.3	31.3
151A	EDCM 1500x1200 GSEP SD603+607	319335.16	5850054.67	258.53	258.78	2P	5.00	186.00	0.72	0.0106	0.0077	0.0077	4.0	0.0077	0.0077	4.0	4.0
151B	EDCM 1200x1200 GSEP SD601+607	319348.62	5850053.21	258.60	258.85	2P	5.00	186.00	0.72	0.0588	0.0426	0.1509	77.9	0.0426	0.1509	77.9	77.9
						3P	5.00	186.00	0.90	0.1200	0.1082			0.1082			
151C	EDCM 900x1200 GSEP SD601+607	319357.99	5850060.75	258.64	258.89	2P	5.00	186.00	0.72	0.0541	0.0392	0.1845	95.3	0.0392	0.1845	95.3	95.3
						3P	5.00	186.00	0.90	0.1610	0.1453			0.1453			
151D	EDCM 900x1200 GSEP SD601+607	319423.37	5850053.33	258.94	259.19	2P	5.00	186.00	0.72	0.0147	0.0107	0.0475	22.9	0.0107	0.0413	21.4	22.9
						4P	6.00	174.00	0.72	0.0508	0.0368			0.0307			
151E	EDCM 900x1200 GSEP SD601+607	319432.98	5850060.83	259.03	259.28												0.0
151F	EDCM 900x900 GSEP SD601+607	319433.92	5850069.48	258.98	259.23	2P	5.00	186.00	0.72	0.0299	0.0217	0.0217	11.2	0.0217	0.0217	11.2	11.2
151G	EDCM 900x900 GSEP SD601+607	319437.35	5850099.84	259.13	259.38	2P	5.00	186.00	0.72	0.0125	0.0091	0.0091	4.7	0.0091	0.0091	4.7	4.7
151H	EDCM 900x900 GSEP SD601+607	319439.07	5850115.70	259.21	259.46	2P	5.00	186.00	0.72	0.0137	0.0100	0.0100	5.1	0.0100	0.0100	5.1	5.1
151I	EDCM 900x900 GSEP SD601+607	319441.73	5850140.35	259.12	259.37	2P	5.00	186.00	0.72	0.0441	0.0320	0.1434	74.1	0.0320	0.1434	74.1	74.1
						3P	5.00	186.00	0.90	0.1235	0.1114			0.1114			
151J	EDCM 900x600 GSEP SD601	319445.84	5850179.74	259.33	259.58	2P	5.00	186.00	0.72	0.0287	0.0208	0.1305	67.4	0.0208	0.1305	67.4	67.4
						3P	5.00	186.00	0.90	0.1217	0.1098			0.1098			
151K	EDCM 900x600 GSEP SD601	319449.77	5850216.03	259.51	259.51	2P	5.00	186.00	0.72	0.0138	0.0100	0.0841	43.4	0.0100	0.0841	43.4	43.4
						3P	5.00	186.00	0.90	0.0822	0.0741			0.0741			
151L	EDCM 900x600 GSEP SD601	319442.54	5850225.01	259.74	259.74	2P	5.00	186.00	0.72	0.0268	0.0195	0.0195	10.1	0.0195	0.0195	10.1	10.1
152A	EDCM 900x600 GSEP SD601	319336.28	5850063.10	258.53	258.53	2P	5.00	186.00	0.72	0.0178	0.0129	0.0532	27.5	0.0129	0.0532	27.5	27.5
						3P	5.00	186.00	0.90	0.0446	0.0403			0.0403			
153A	EDCM 1500x900 GSEP SD603+607	319422.53	5850045.57	258.94	259.19	2P	5.00	186.00	0.72	0.0138	0.0100	0.0100	5.2	0.0100	0.0100	5.2	5.2
153B	EDCM 1200x1200 GSEP SD601+607	319440.98	5850055.74	259.05	259.30	2P	5.00	186.00	0.72	0.0171	0.0124	0.0427	22.1	0.0124	0.0427	22.1	22.1
						3P	5.00	186.00	0.90	0.0336	0.0303			0.0303			
153C	EDCM 900x1200 GSEP SD601+607	319442.07	5850068.60	258.97	259.22	2P	5.00	186.00	0.72	0.0415	0.0301	0.1210	62.5	0.0301	0.1210	62.5	62.5
						3P	5.00	186.00	0.90	0.1008	0.0909			0.0909			
153D	EDCM 900x1200 GSEP SD601+607	319446.27	5850107.43	259.16	259.41	2P	5.00	186.00	0.72	0.0087	0.0063	0.0669	34.6	0.0063	0.0669	34.6	34.6
						3P	5.00	186.00	0.90	0.0672	0.0606			0.0606			
153E	EDCM 1200x1200 GSEP SD601+607	319449.59	5850138.15	259.11	259.36	2P	5.00	186.00	0.72	0.0306	0.0222	0.0222	11.5	0.0222	0.0222	11.5	11.5
153F	EDCM 900x1200 GSEP SD601+607	319458.92	5850145.79	259.33	259.58	2P	5.00	186.00	0.72	0.0425	0.0308	0.1040	50.3	0.0308	0.0986	50.9	50.9
						3P	5.00	186.00	0.90	0.0448	0.0404			0.0404			
						4P	6.00	174.00	0.72	0.0453	0.0328			0.0274			
153G	EDCM 900x900 GSEP SD601+607	319510.68	5850139.89	259.61	259.86	2P	5.00	186.00	0.72	0.0140	0.0102	0.0102	5.3	0.0102	0.0102	5.3	5.3
153H	EDCM 900x600 GSEP SD601	319535.34	5850137.22	259.73	259.98	2P	5.00	186.00	0.72	0.0267	0.0193	0.0573	29.6	0.0193	0.0573	29.6	29.6
						3P	5.00	186.00	0.90	0.0420	0.0379			0.0379			
153I	EDCM 900x600 GSEP SD601	319552.24	5850135.40	259.83	260.08	2P	5.00	186.00	0.72	0.0132	0.0096	0.0740	38.2	0.0096	0.0740	38.2	38.2
						3P	5.00	186.00	0.90	0.0714	0.0644			0.0644			
153J	EDCM 900x600 GSEP SD601	319572.19	5850133.33	260.18	260.18	2P	5.00	186.00	0.72	0.0200	0.0145	0.0467	24.1	0.0145	0.0467	24.1	24.1
						3P	5.00	186.00	0.90	0.0357	0.0322			0.0322			
153K	EDCM 900x600 GSEP SD601	319583.42	5850132.12	260.34	260.34	3P	5.00	186.00	0.90	0.0357	0.0322	0.0703	34.0	0.0322	0.0639	33.0	34.0
						4P	6.00	174.00	0.72	0.0525	0.0381			0.0317			
164A	EDCM 900x600 JP SD605	319439.64	5850043.37	259.11	259.11	3P	5.00	186.00	0.90	0.0336	0.0303	0.0303	15.7	0.0303	0.0303	15.7	15.7

REV	REVISION	DES	DWG	CHK	DATE
A	AS SUBMITTED TO COUNCIL	JM	JM	NJB	18/05/21

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