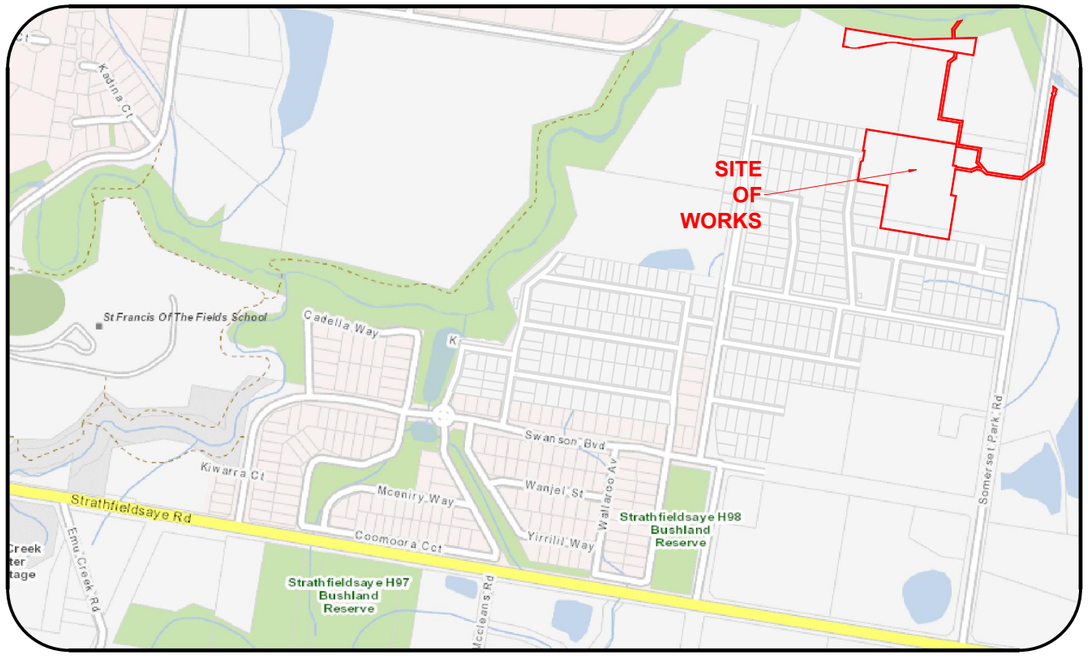
IMAGINE ESTATE STAGE 21

ROADS & DRAINAGE PLANS

SERENE DRIVE - STRATHFIELDSAYE



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

S PROPOSED SEWER AND MANHOLE
SRM PROPOSED SEWER RISING MAIN
PS PROPOSED PRIVATE SEWER
S EXISTING SEWER & MANHOLE
FS PROPOSED FUTURE SEWER
W PROPOSED WATER MAIN
PW PROPOSED PRIVATE WATER MAIN
RW PROPOSED RECYCLED WATER MAIN
W EXISTING WATER MAIN, FIRE PLUG AND VALVE
FW PROPOSED FUTURE WATER
E PROPOSED ELECTRICITY MAIN
PE PROPOSED PRIVATE ELECTRICITY MAIN
E EXISTING ELECTRICITY MAIN & PIT
FE PROPOSED FUTURE ELECTRICITY
G PROPOSED GAS MAIN
PG PROPOSED PRIVATE GAS MAIN
G EXISTING GAS MAIN
FG PROPOSED FUTURE GAS
T PROPOSED TELCO MAIN
PT PROPOSED PRIVATE TELECO MAIN
T 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 ASPHALT FOOTPATH
PROPOSED CONCRETE PAVEMENT (DRIVEWAY OR INFILL)
PROPOSED ALTERNATE PAVEMENT
PROPOSED KERB
PROPOSED NATURESTRIP \ LANDSCAPING
PROPOSED LOT EARTHWORKS NO TOPSOIL
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
NS 101.95 EXISTING/NATURAL SURFACE LEVEL
FS 101.95 FINISHED SURFACE LEVEL
TK 101.95 PROPOSED BACK OF KERB
P 101.95 PROPOSED 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

502301R01	LOCALITY PLAN & GENERAL NOTES
502301R02	OVERALL DEVELOPMENT PLAN
502301R03-04	EXISTING CONDITIONS & SURVEY STNS \ TBMS (2 SHEETS)
502301R05-06	DETAIL PLAN (2 SHEETS)
502301R07-08	CUT & FILL DEPTH RANGE & LOT LEVELS (2 SHEETS)
502301R09	SIGNAGE, PAVEMENT & LINEMARKING PLAN
502301R10	INTERSECTION DETAILS
502301R11	ROAD TYPICAL SECTIONS
502301R12	EASTERN SEDIMENTATION BASIN DETAIL PLAN
502301R13	EASTERN POND DETAIL PLAN
502301R14	EASTERN SEDIMENTATION BASIN SECTIONS
502301R15	EASTERN POND SECTIONS
502301R16	EASTERN SEDIMENTATION BASIN PIT DETAILS
502301R17-18	EASTERN POND PIT DETAILS (2 SHEETS)
502301R19	SERENE DRIVE LONG SECTION
502301R20-21	SERENE DRIVE CROSS SECTIONS (2 SHEETS)
502301R22	ACCORD STREET LONG SECTION
502301R23-24	ACCORD STREET CROSS SECTIONS (2 SHEETS)
502301R25-28	DRAINAGE LONG SECS (4 SHEETS)
502301R29	DRAINAGE PIT SCHEDULE
502301R30	DEVELOPMENT NE DRAINAGE CATCHMENT PLAN
502301R31	DRAINAGE HYDROLOGY DATA
502301R32	DRAINAGE HYDRAULICS DATA

TABLE OF OFFSETS FOR SERVICES

STREET	GAS		NDW		DW		TELCO		UG ELEC		O/H ELEC		BOK / SEAL
SERENE DRIVE	-	-	-	-	2.40	S	1.90	N	2.40	N	-	-	4.05N / 4.05S
ACCORD STREET	-	-	-	-	2.40	W	1.90	E	2.40	E	-	-	4.05E / 4.05W
STAGE 22 FUTURE NTH RD	-	-	-	-	2.40	W	1.90	E	2.40	E	-	-	4.05E / 4.05W
SOMERSET PARK ROAD	-	-	7.00	E	6.00	W	4.2/6.1	E	3.80	E	3.80	E	9.2E / 8.2W

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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.

OVERHEAD ELECTRICAL LINE (TO BE RETAINED) WORK PRACTICES TO BE IN ACCORDANCE WITH "RULES FOR OPERATING NEAR OVERHEAD POWER LINES" ISSUED BY OFFICE OF THE CHIEF ELECTRICAL INSPECTOR

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 MGA2020, CORRECT AS OF THE DATE OF THESE PLANS. MGA94 MAY HAVE BEEN USED PREVIOUSLY ON THIS SITE OR AN ADJOINING PROPERTY AND SUCH WORK WILL DIFFER IN POSITION BY AROUND 1.8 METRES FROM THIS DOCUMENT. ORIENTATION (NORTH) REMAINS THE SAME BETWEEN MGA94 AND MGA2020.
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 INFRASTRUCTURE DESIGN MANUAL AND ANY OTHER RELEVANT AUTHORITY SPECIFICATIONS. A COPY OF THE INFRASTRUCTURE DESIGN MANUAL CAN BE FOUND AT www.designmanual.com.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 REQUIRED NOTIFICATION TO WORKSAFE VICTORIA. THE NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 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 HEATH 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 AS3798-2007 ("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, IT'S 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 (MAY 2007) 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 MODIFIED SM2 (IDM SD 100) 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 INFRASTRUCTURE DESIGN MANUAL (IDM) 200 SERIES 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.
48. ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH SHALL BE BACKFILLED IN ACCORDANCE WITH THE IDM UNLESS STATED OTHERWISE
49. REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM DRAWING.
50. STORMWATER DRAINS SHALL BE RCP FLUSH JOINTED CLASS 2 OR PVC CLASS SN8 UNLESS OTHERWISE SHOWN.
51. ALL RCP FLUSH JOINTED PIPES BELOW 600mm DIA ARE TO HAVE EXTERIOR MORTARED JOINTS. ALL PIPES 600 DIA AND GREATER ARE TO HAVE INTERIOR MORTAR JOINTS.
52. ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
53. ALL CONDUIT LOCATIONS ARE TO BE STAMPED IN THE CONCRETE KERBING.
54. ALL CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
55. ALL GRATES ARE TO BE HOT DIPPED GALVANISED.
56. 100mm DEEP CATCH DRAINS TO BE CONSTRUCTED ALONG ALL EASEMENT DRAINAGE AND DIRECTED TO LEGAL POINT OF DISCHARGE.
57. STEP IRONS ARE NOT TO BE INSTALLED IN ANY DRAINAGE PIT. ACCESS LIDS ARE TO BE LOCATED TO ENABLE REASONABLE ACCESS.
58. 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.
59. REFER ROAD LAYOUT PLANS FOR WATER & GAS ROAD SERVICE CONDUIT LOCATIONS. INTERSECTION DETAILS PLANS DO NOT SHOW CONDUITS.
60. 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

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

EMERGENCY CONTACTS

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

SERVICE	AUTHORITY & CONTACT	TELEPHONE
DRAINAGE	CITY OF GREATER BENDIGO	5434 6000
ELECTRICITY	POWERCOR	132 412
GAS	SP AUSNET	136 707
COMMUNICATIONS	TELSTRA	132 203
SEWER & WATER	COLIBAN WATER	1300 363 200

63. 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	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SCALE N/A
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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
LOCALITY PLAN & GENERAL NOTES
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R01 / 32
REV: A

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PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOMMKBGO-12DS\01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R+D REV A.DWG

GENERAL DESIGN DETAIL PLAN NOTES

APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES:
  - •• FRONTING LOTS = MODIFIED SM2 (IDM SD 100 - SM2-M)
  - •• FRONTING RESERVES = 450mm B2 AS PER IDM SD 100
- ALL KERB RETURNS ARE 8.0m RADIUS TO BoK
- ALL DRIVEWAYS AS PER IDM SD 240 & 245
- ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S AS PER IDM SD 205
- ALL SHARED PATHS CONCRETE & 2.5m WIDE @ 0.10m O/S BL AS PER IDM SD 205
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S BL & SIDE BOUNDARIES
- LEVEL 1 SUPERVISION REQUIRED FOR LOT EARTHWORKS UNLESS SPECIFIED OTHERWISE - REFER GENERAL NOTES
- ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
- CONTOUR INTERVAL:
  0.2m @ 1 : 1000 & 1:250 (A3)
  0.05m @ 1 : 200 (A3)

WARNING

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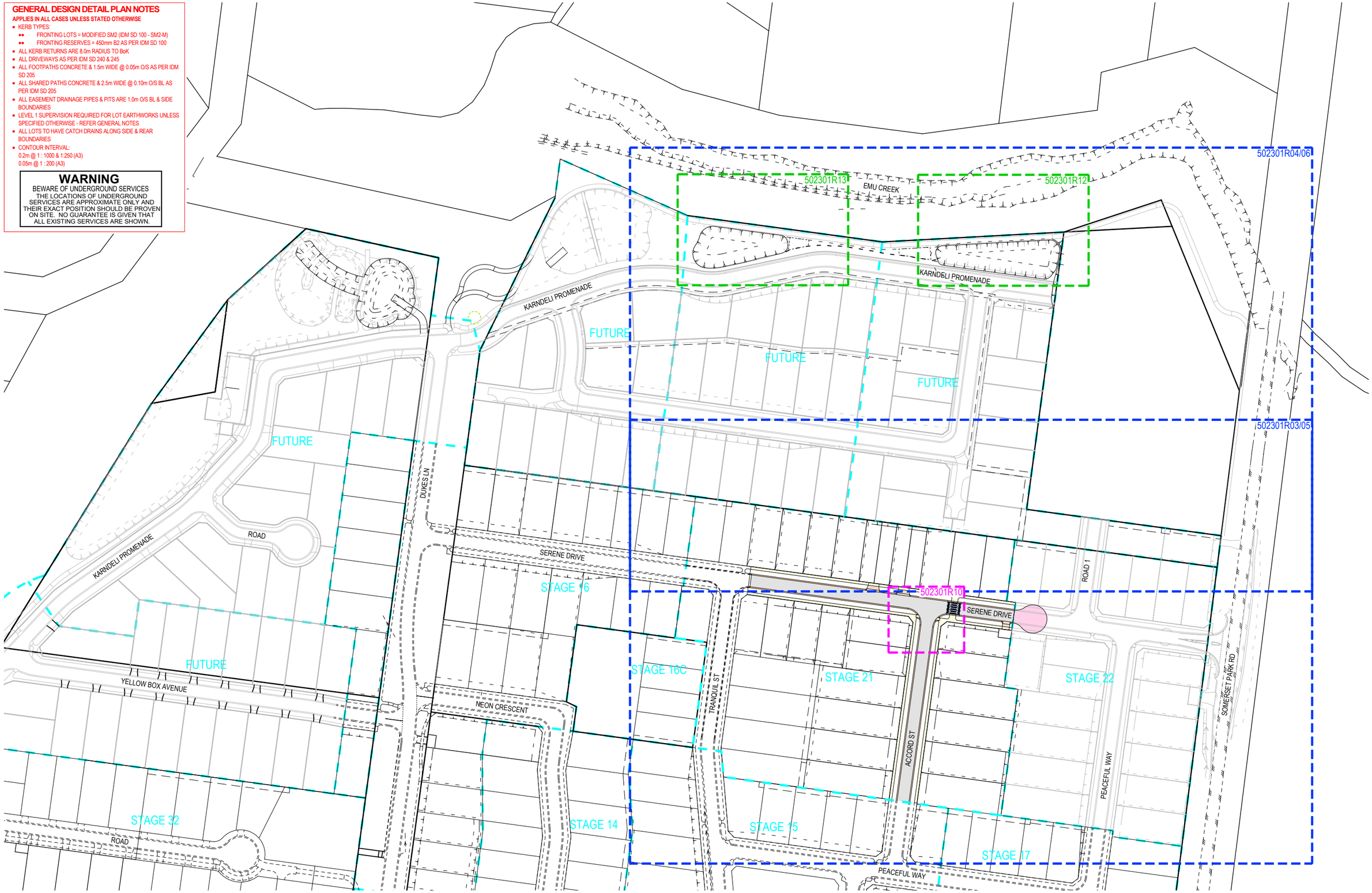

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

MGA94 ZONE 55

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SCALE 1:2,000
20 0 20 40 60 80 100
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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
OVERALL DEVELOPMENT PLAN

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R02 / 32
REV: A

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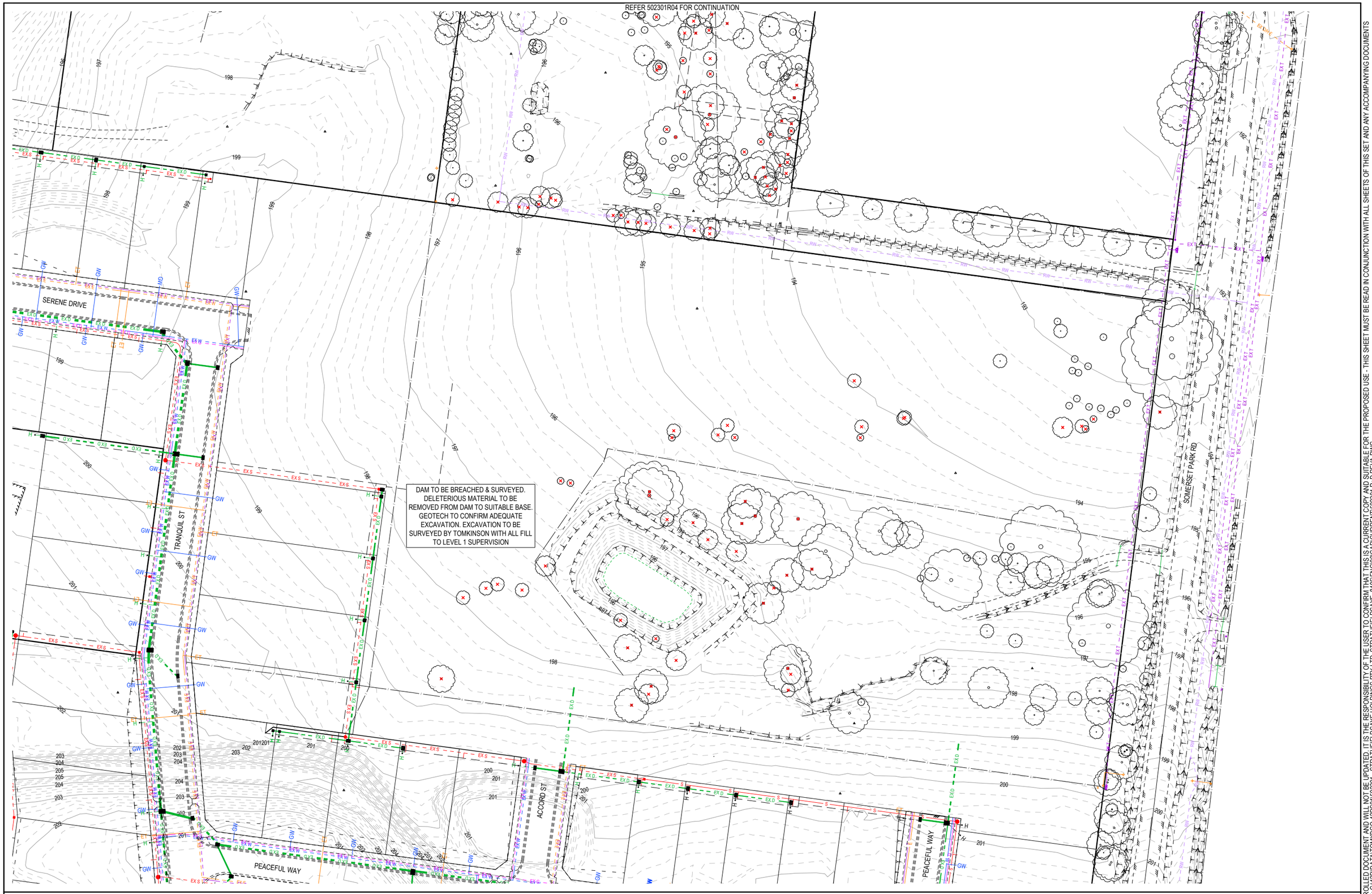

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EXISTING CONDITIONS & SURVEY STNS \ TBMS (1 / 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022

STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**

PROJECT & DWG No: 502301 R03 / 32

REV: A

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REFER 502301R03 FOR CONTINUATION

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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EXISTING CONDITIONS & SURVEY STNS \ TBMS (2 / 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022

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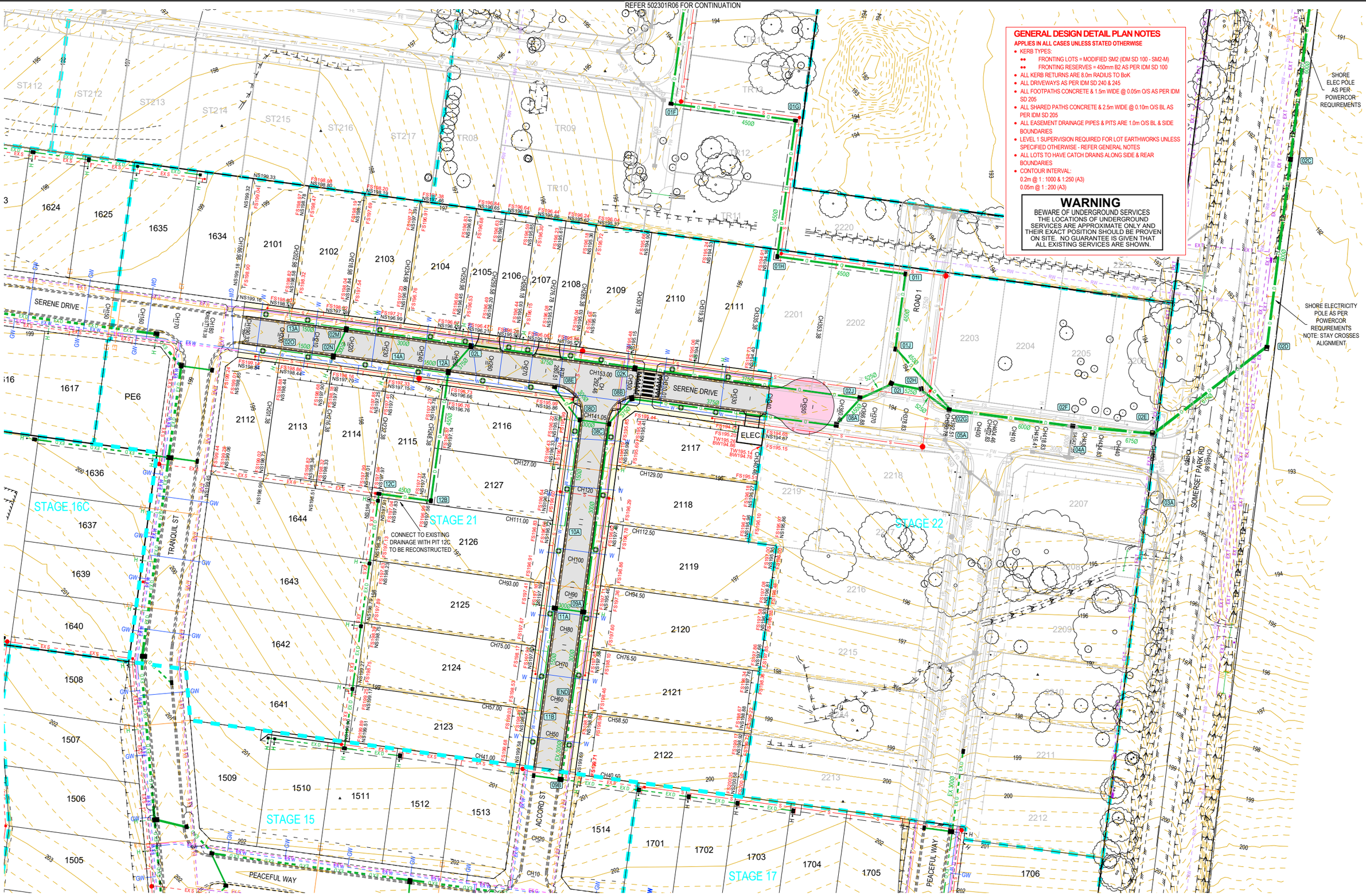

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
DETAIL PLAN (1 OF 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R05 / 32
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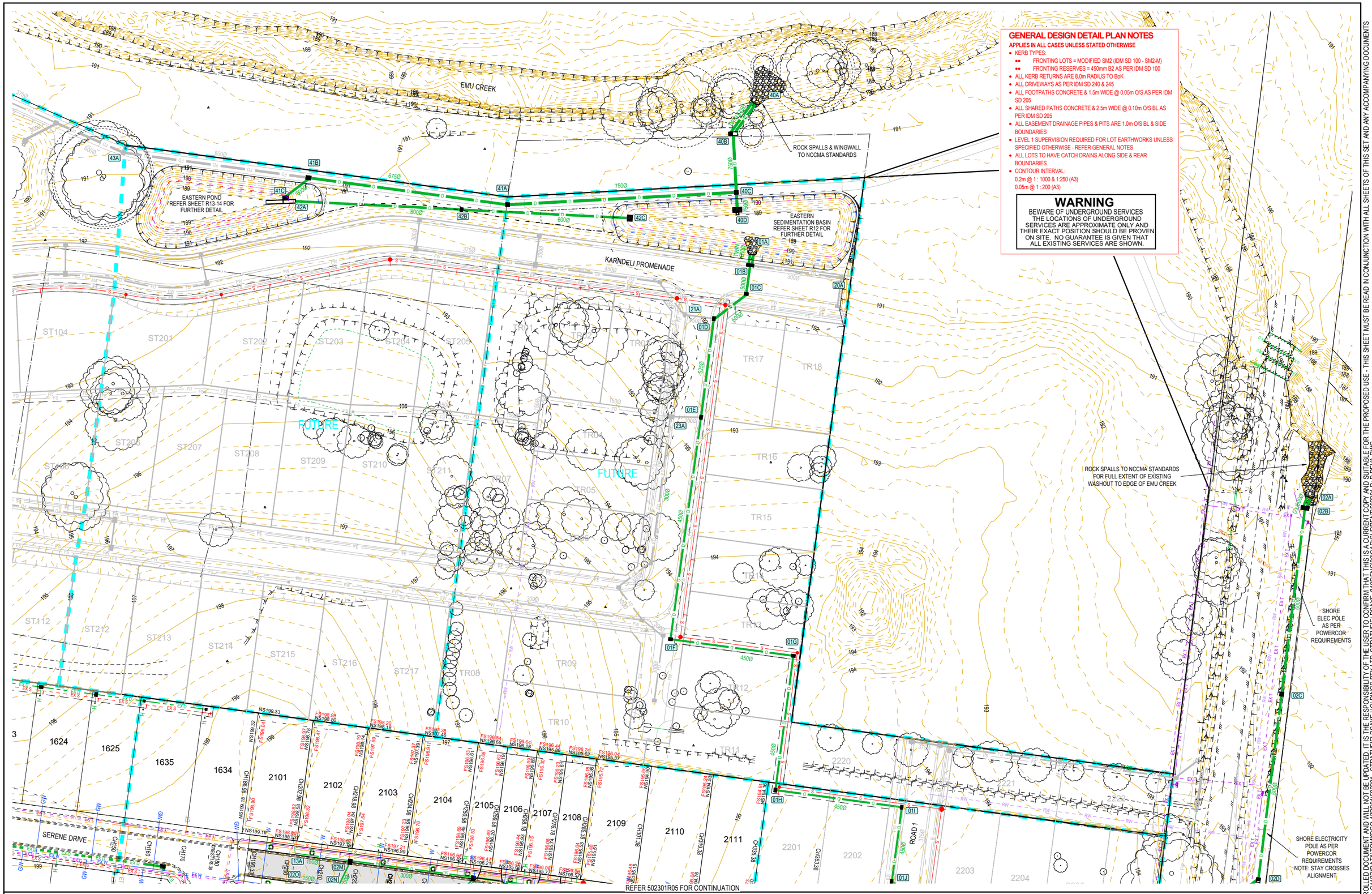

GENERAL DESIGN DETAIL PLAN NOTES

APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES:
  - •• FRONTING LOTS = MODIFIED SM2 (IDM SD 100 - SM2-M)
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- ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
- CONTOUR INTERVAL:
  0.2m @ 1 : 1000 & 1:250 (A3)
  0.05m @ 1 : 200 (A3)

WARNING

BEWARE OF UNDERGROUND SERVICES
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REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
DETAIL PLAN (2 OF 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
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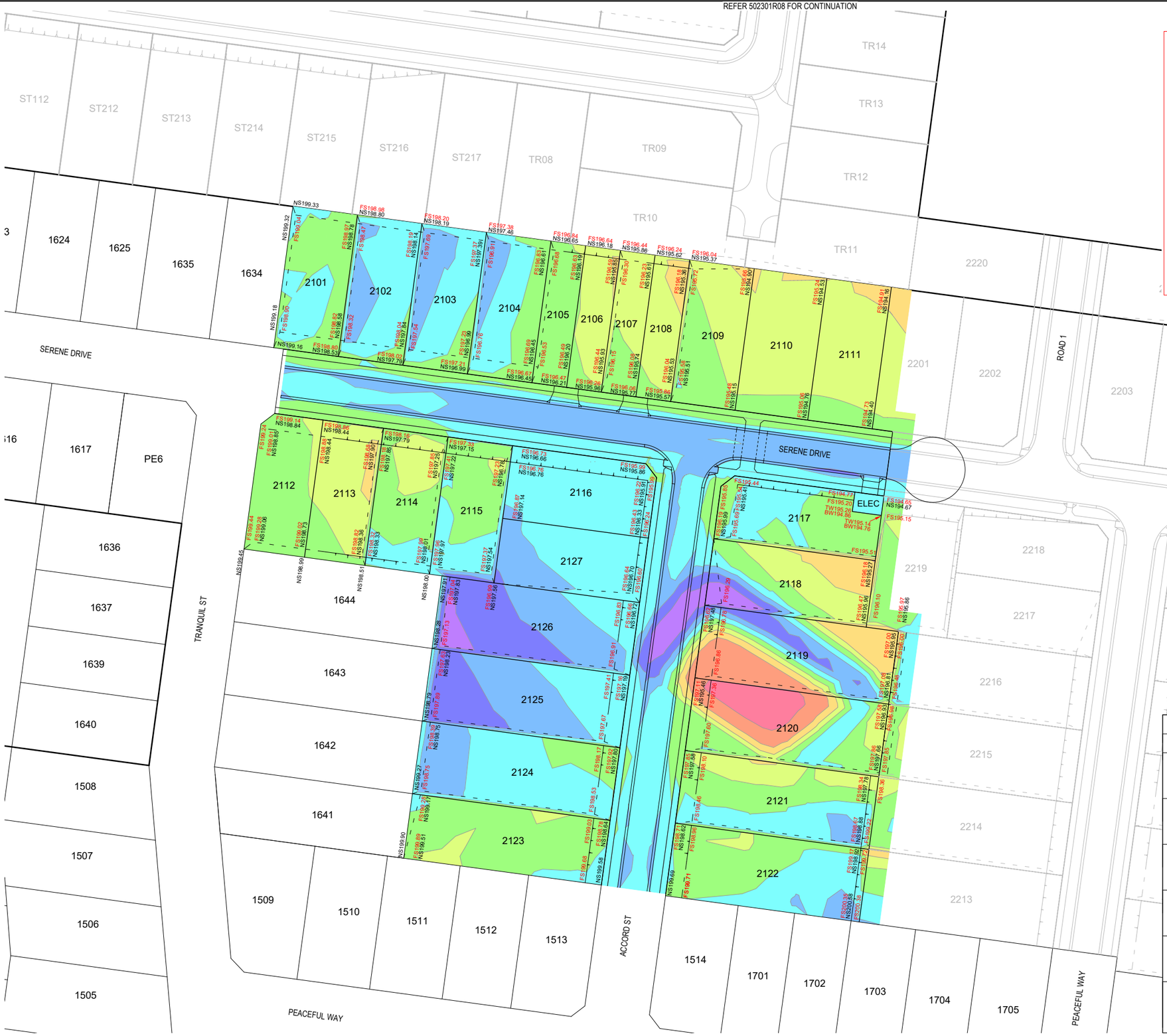
REFER 502301R08 FOR CONTINUATION



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Levels Table

No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour
1	-3.0	-2.0		6	0.0	0.3	
2	-2.0	-1.0		7	0.3	0.6	
3	-1.0	-0.6		8	0.6	1.0	
4	-0.6	-0.3		9	1.0	2.0	
5	-0.3	0.0		10	2.0	3.0	

NOTES: CUT & FILL DEPTHS ARE A COMPARISON BETWEEN THE CURRENT STRIPPED EXISTING SURFACE & DESIGN BULK EARTHWORKS SURFACE.
NS LEVELS ARE CURRENT EXISTING SURFACE LEVELS PRIOR TO STRIPPING & FS LEVELS ARE FINAL FINISHED SURFACE LEVELS AFTER TOPSOILING ETC

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
CUT & FILL DEPTH RANGE & LOT LEVELS (1 OF 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R07 / 32
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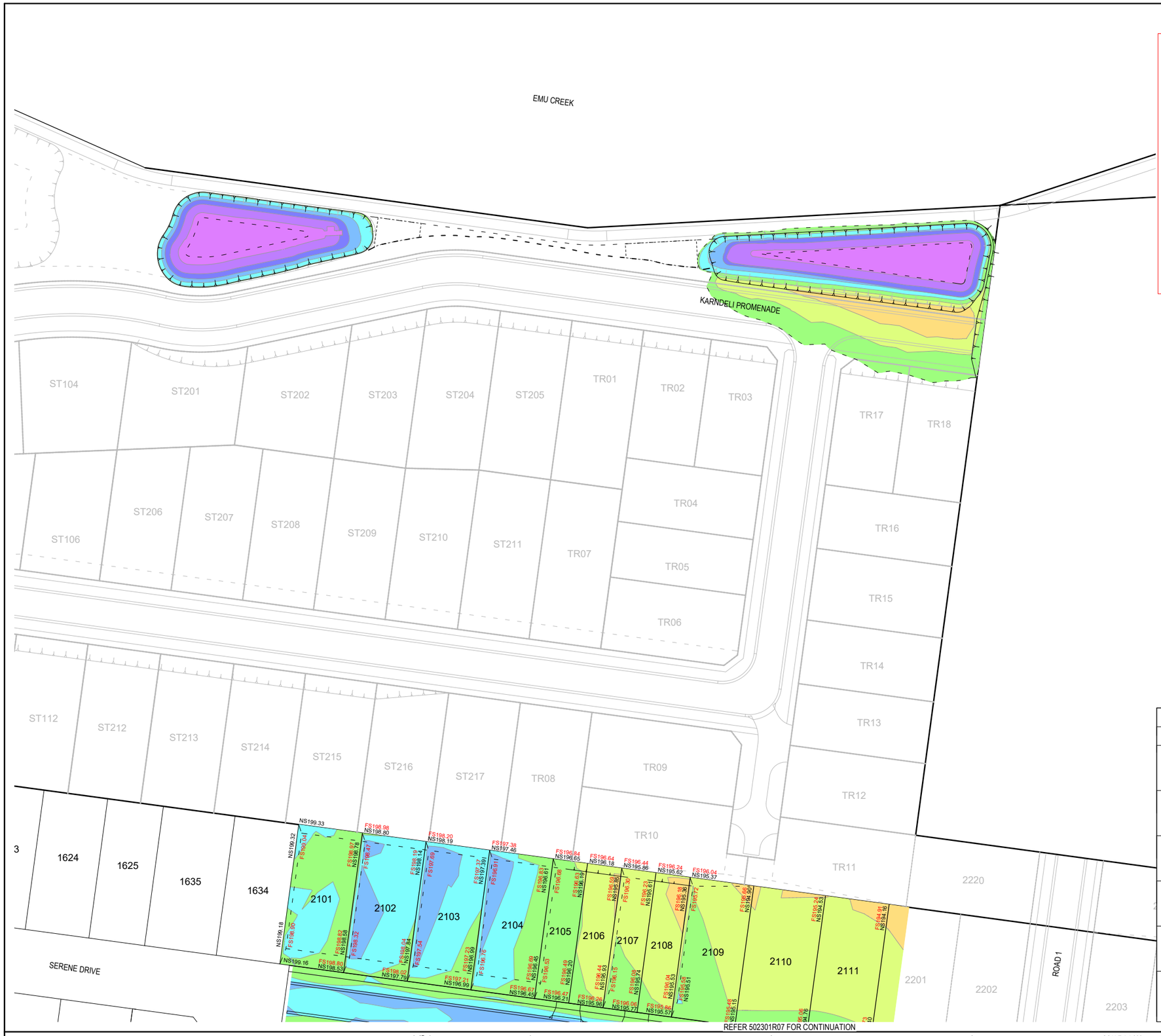

REFER 502301R07 FOR CONTINUATION

GENERAL DESIGN DETAIL PLAN NOTES

APPLIES IN ALL CASES UNLESS STATED OTHERWISE

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REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
CUT & FILL DEPTH RANGE & LOT LEVELS (2 OF 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
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LEGEND

- PROPOSED LINEMARKING
- EXISTING LINEMARKING TO BE MAINTAINED
- EXISTING LINEMARKING TO BE REMOVED
- PROPOSED PSM
- HYDRANT MARKING
- PROPOSED SIGNAGE
- ACCORD ST — #1 STREET SIGN
- R3-1A — #2 PEDESTRIAN CROSSING SIGN
- D4-5 — #3 OBSTRUCTION MARKER

NOTE:

1. ALL STREET NAME SIGNAGE TO BE IN ACCORDANCE WITH CITY OF GREATER BENDIGO STANDARD.
2. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

PAVEMENT NOTES:

A. ROAD PAVEMENT DESIGNS PRODUCED IN ACCORDANCE WITH GTS REPORT 25C 0037 DATED MARCH 2025. ALL OTHER PAVEMENT TO IDM STANDARDS

B. PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 99% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).

C. PAVEMENT SUBBASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).

D. PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.

E. STRUCTURAL FILL TO HAVE A MINIMUM CBR OF 8 AND COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).

F. SUBGRADE PREPARATION AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE WITH RELEVANT STANDARDS.

G. 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.

H. PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.

SM2-M KERB & CHANNEL INSTALLATION
360mm DEPTH PAVEMENT
SCALE 1:25 (A3)

SM2-M KERB & CHANNEL INSTALLATION
250mm DEPTH PAVEMENT
SCALE 1:25 (A3)

360mm DEPTH PAVEMENT			
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL	
1 WEARING COURSE	40	SIZE 10 TYPE N ASPHALT	
2 REGULATION ASPHALT	VARIES 35-100		SIZE 14mm REGULATION ASPHALT - REFER TYP DETAIL
3 PRIME			
4 BASE COURSE	150	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B)	
5 SUBBASE COURSE	170	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C)	

250mm DEPTH PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 WEARING COURSE	30	SIZE 10 TYPE N ASPHALT
2 PRIME		
3 BASE COURSE	110	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B)
4 SUBBASE COURSE	110	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C)

PAVEMENT DESIGN AS PER GTS REPORT 25C 0037 MARCH 2025

CONCRETE FOOTPATH & SHARED PATH (IDM SD 205) STD DRIVEWAY (IDM SD 240) PAVEMENT DETAILS		
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 MESH LOCATED CENTRALLY
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

TEMPORARY GRAVEL PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	100	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK

REV	REVISION	DES	DWG	CHK	AUTH	DATE
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RPE: NATHAN BAWDEN - 0015036

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
SIGNAGE, PAVEMENT & LINEMARKING PLAN

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R09 / 32
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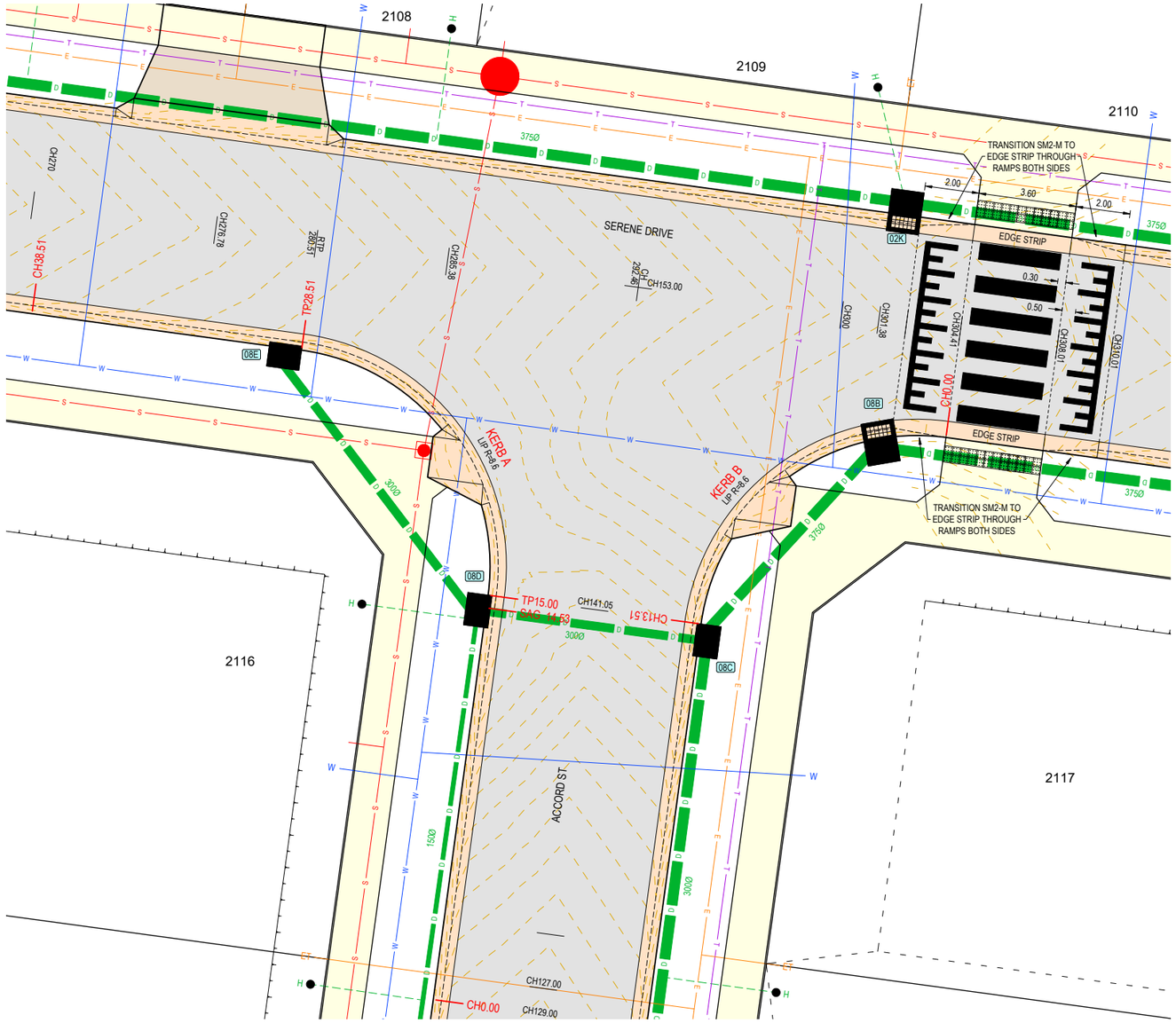

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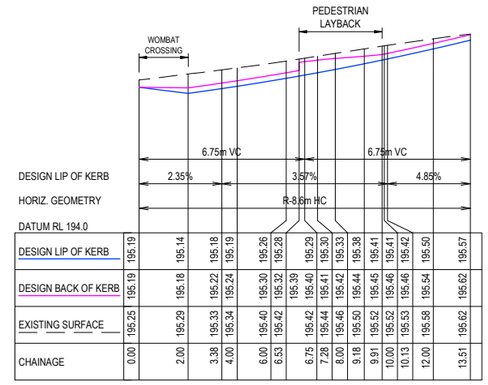
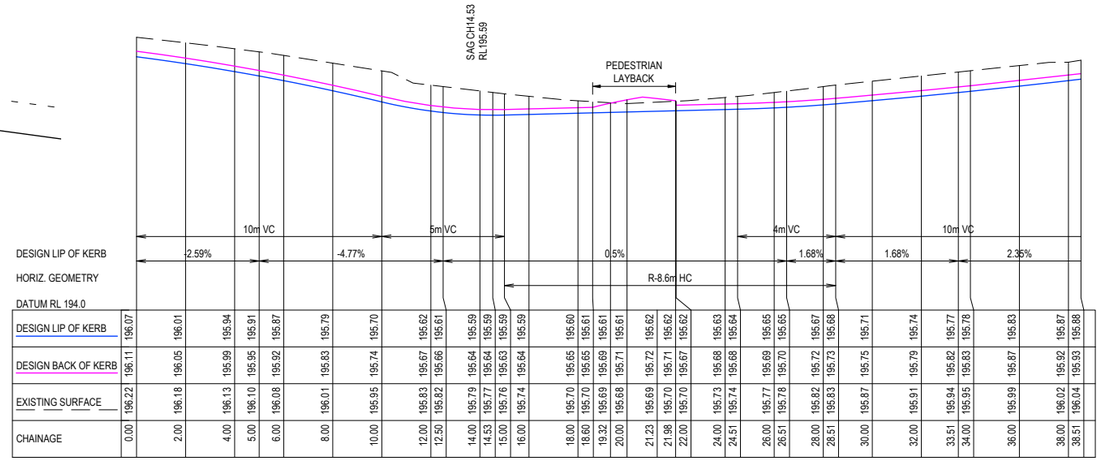


CHAINAGE	DESIGN LIP OF KERB	DESIGN BACK OF KERB	EXISTING SURFACE
0.00	195.19	195.19	195.25
2.00	195.14	195.18	195.29
3.38	195.18	195.22	195.33
4.00	195.19	195.24	195.34
6.00	195.26	195.30	195.40
6.53	195.28	195.32	195.42
6.75	195.29	195.39	195.42
7.28	195.30	195.40	195.44
8.00	195.33	195.41	195.46
9.18	195.38	195.44	195.50
9.91	195.41	195.45	195.52
10.00	195.41	195.46	195.52
10.13	195.42	195.46	195.53
12.00	195.50	195.54	195.58
13.51	195.57	195.62	195.62

KERB B
SCALE H 1 : 250 V 1 : 50



CHAINAGE	DESIGN LIP OF KERB	DESIGN BACK OF KERB	EXISTING SURFACE
0.00	196.07	196.11	196.22
2.00	196.01	196.05	196.18
4.00	195.94	195.99	196.13
5.00	195.91	195.95	196.10
6.00	195.87	195.92	196.08
8.00	195.79	195.83	196.01
10.00	195.70	195.74	195.95
12.00	195.62	195.67	195.83
12.50	195.61	195.66	195.82
14.00	195.59	195.64	195.79
14.53	195.59	195.64	195.77
15.00	195.59	195.63	195.76
16.00	195.59	195.64	195.74
18.00	195.60	195.65	195.70
18.60	195.61	195.65	195.70
19.32	195.61	195.69	195.69
20.00	195.61	195.71	195.68
21.23	195.62	195.72	195.69
21.98	195.62	195.71	195.70
22.00	195.62	195.67	195.70
24.00	195.63	195.68	195.73
24.51	195.64	195.68	195.74
26.00	195.65	195.69	195.77
26.51	195.65	195.70	195.78
28.00	195.67	195.72	195.82
28.51	195.68	195.73	195.83
30.00	195.71	195.75	195.87
32.00	195.74	195.79	195.91
33.51	195.77	195.82	195.94
34.00	195.78	195.83	195.95
36.00	195.83	195.87	195.99
38.00	195.87	195.92	196.02
38.51	195.88	195.93	196.04

KERB A
SCALE H 1 : 250 V 1 : 50

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - A015036

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imagine STRATHFIELDSAYE

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

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
INTERSECTION DETAILS

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R10 / 32
REV: A

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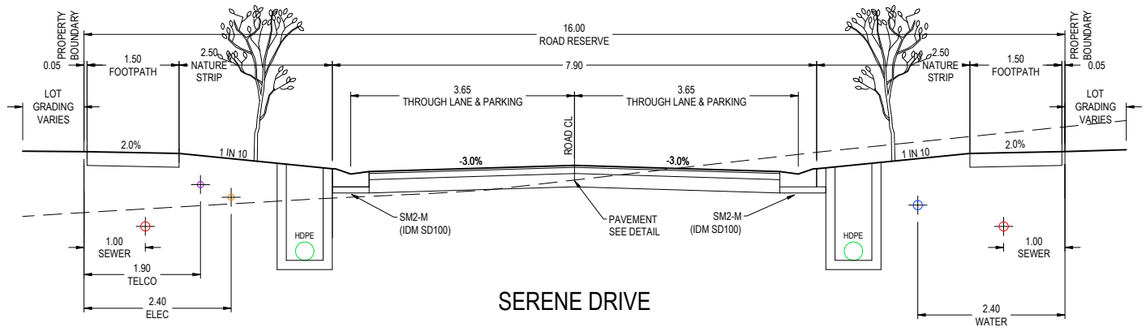
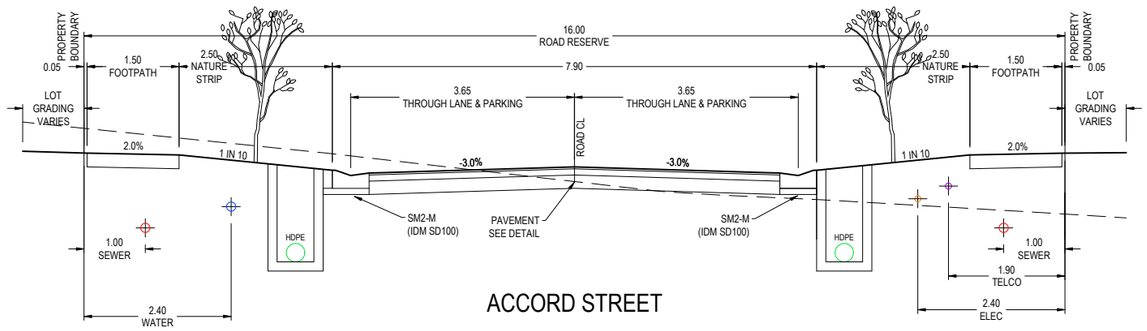
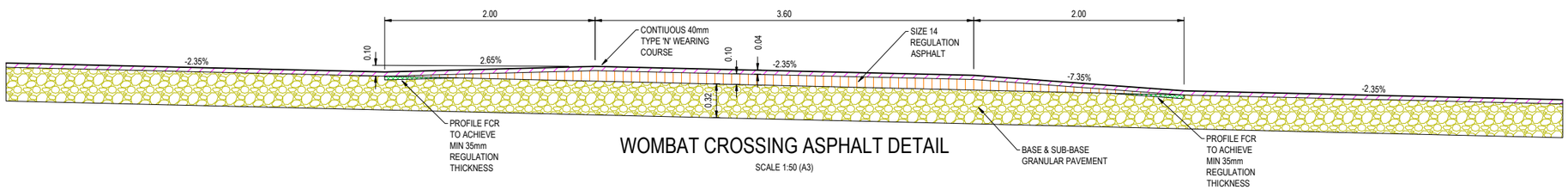
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOM\BGO-12DS\015\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_840SIENG\00\CAD\CURRENT\502301 R+D REVA.DWG



SERENE DRIVE



ACCORD STREET



WOMBAT CROSSING ASPHALT DETAIL

SCALE 1:50 (A3)

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SCALE 1:100
1 0 1 2 3 4 5
LENGTHS ARE IN METRES - PAPER SIZE A3

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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
ROAD TYPICAL SECTIONS

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022

STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**

PROJECT & DWG No: 502301 R11 / 32

REV: A

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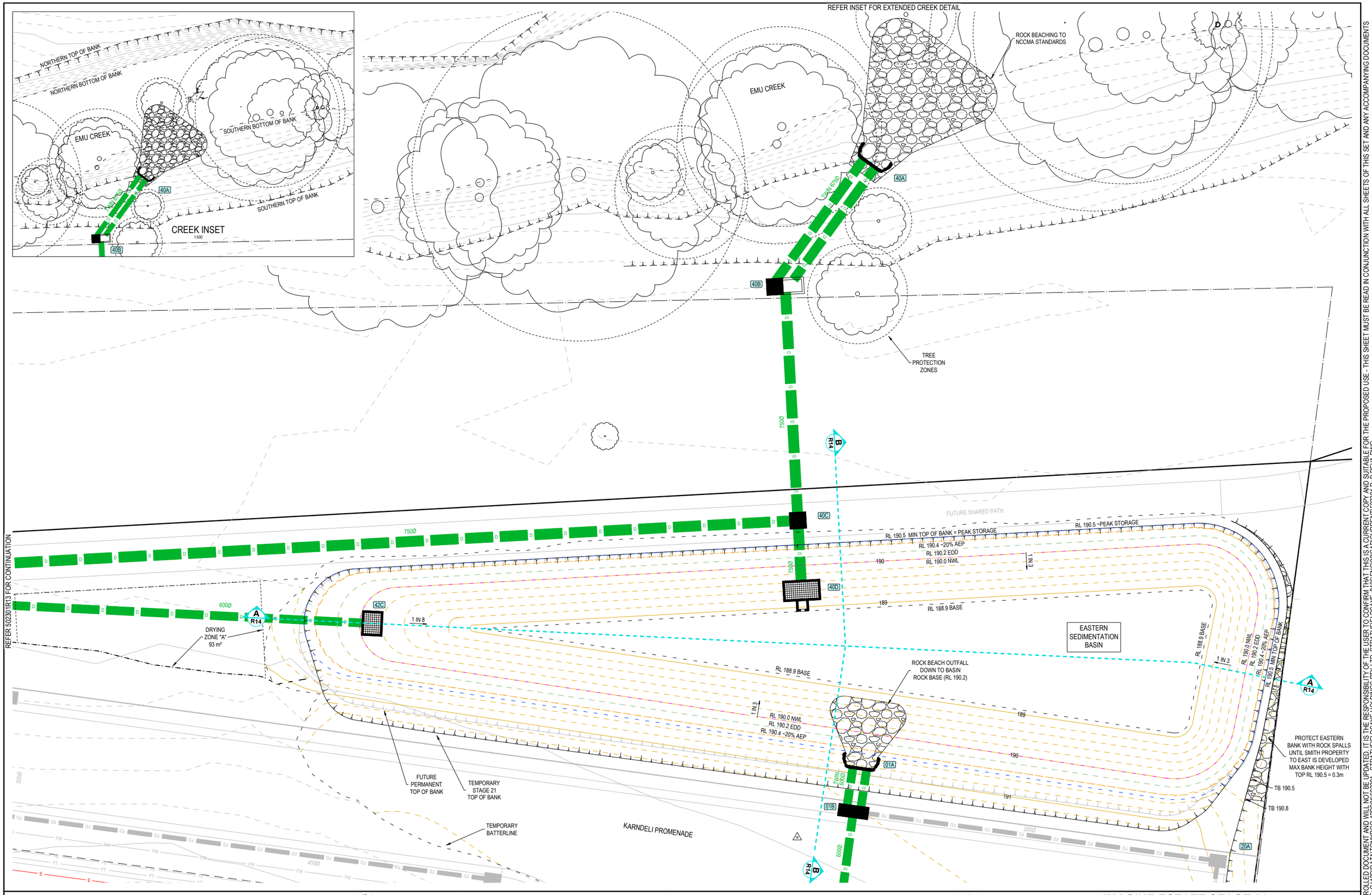

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SCALE 1:250
2.5 0 2.5 5 7.5 10 12.5
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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EASTERN SEDIMENTATION BASIN DETAIL PLAN

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
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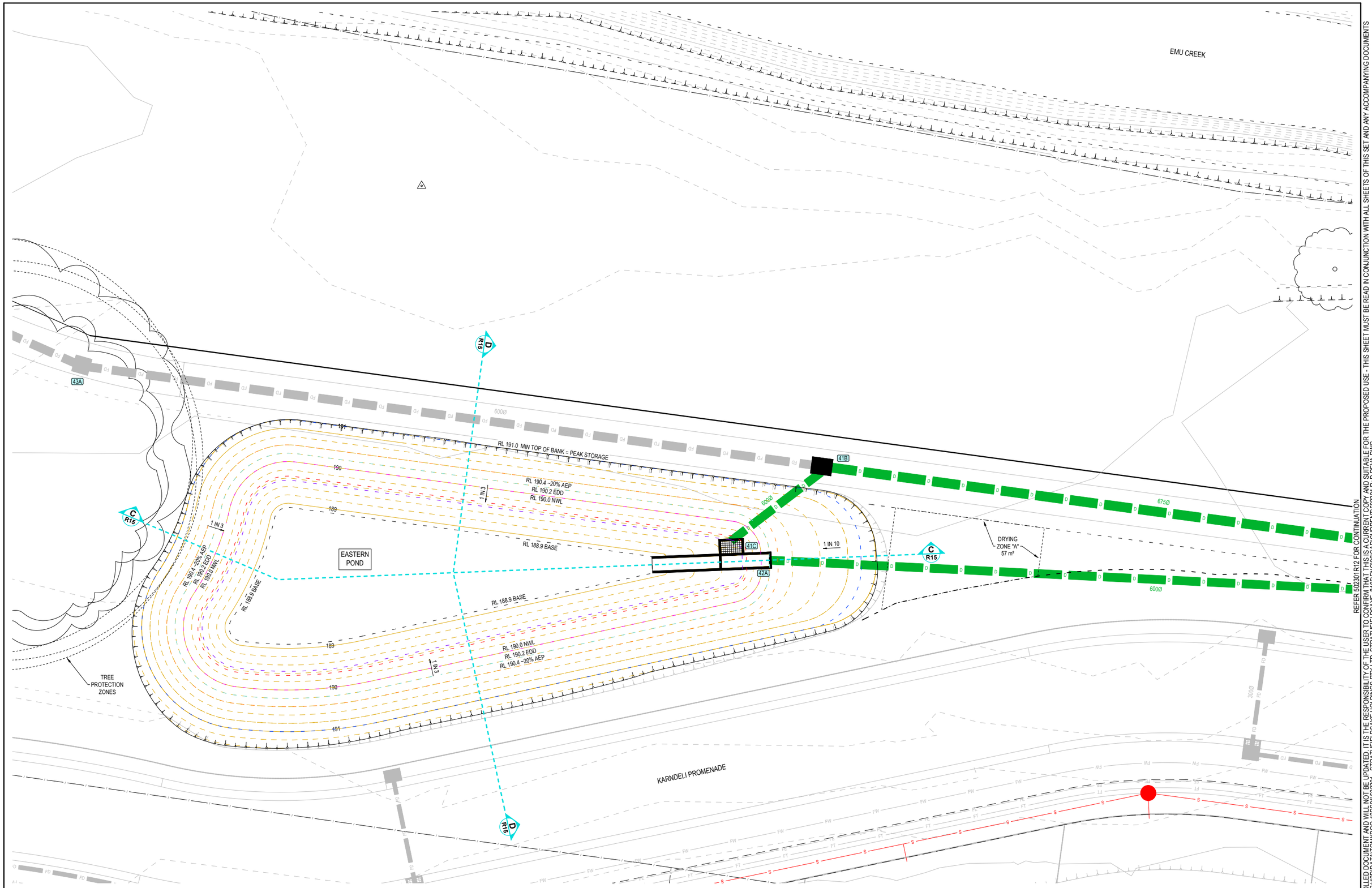

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SCALE 1:250
2.5 0 2.5 5 7.5 10 12.5
LENGTHS ARE IN METRES - PAPER SIZE A3

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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EASTERN POND DETAIL PLAN

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R13 / 32
REV: A

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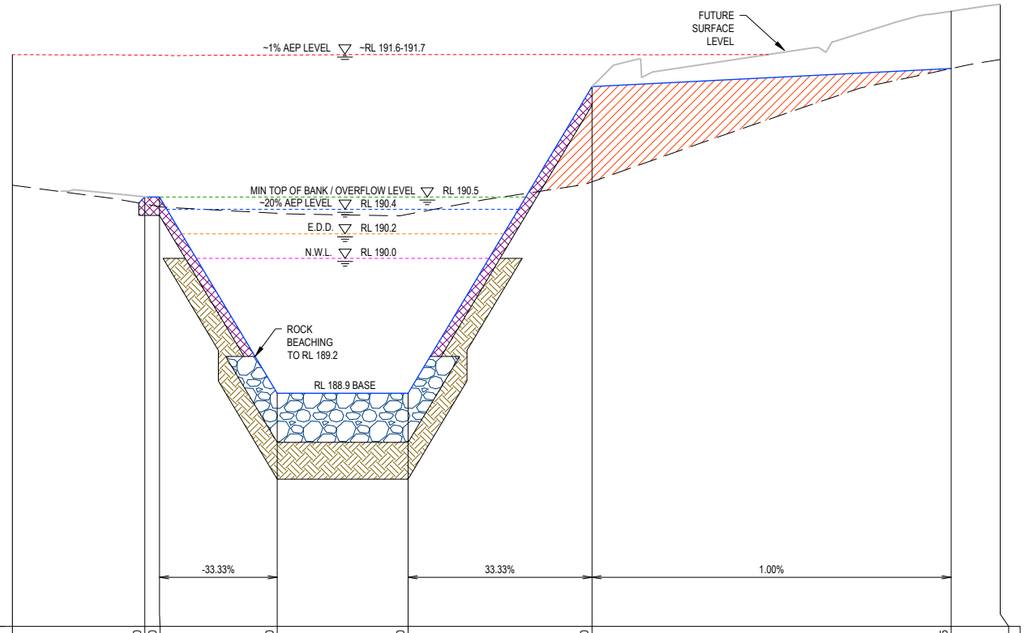
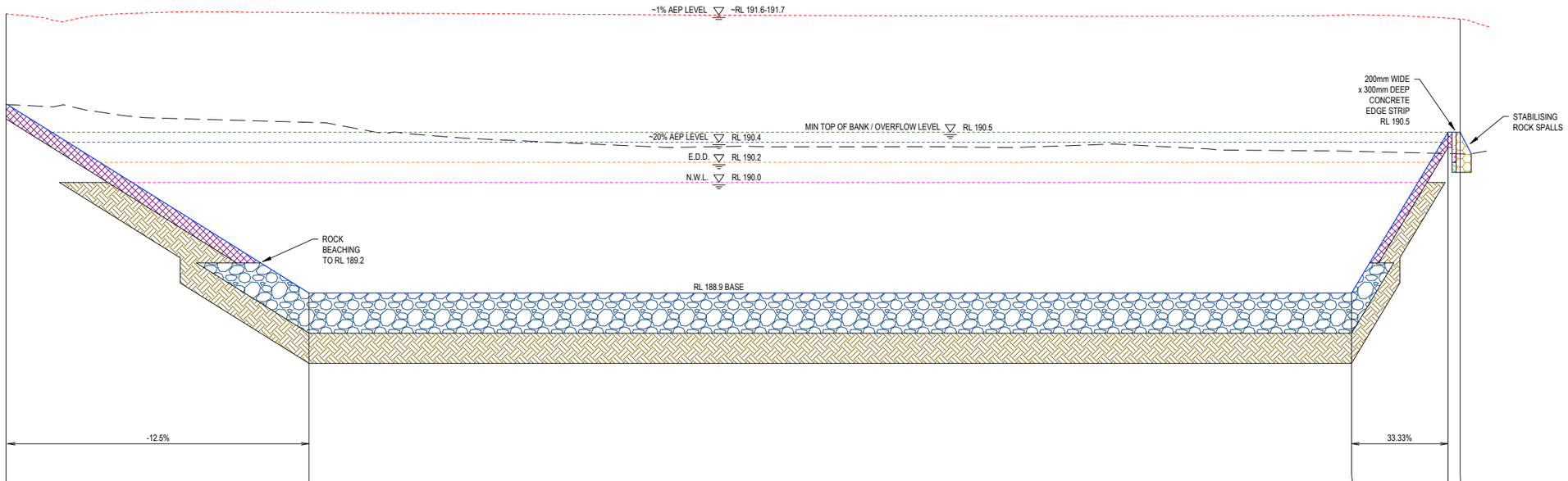
REFER 502301 R12 FOR CONTINUATION



DESIGN LIP OF KERB
HORIZ. GEOMETRY
DATUM RL 187.0

DESIGN SURFACE		190.50	190.50	188.90	188.90	191.40	191.55	
EXISTING SURFACE	190.60	190.44	190.42	190.37	190.36	190.62	191.55	191.62
CHAINAGE	0.00	5.40	6.00	10.80	16.14	23.84	38.28	40.28

SECTION B-B



DESIGN LIP OF KERB
HORIZ. GEOMETRY
DATUM RL 187.0

DESIGN SURFACE		188.90	188.90	190.50	190.50	
EXISTING SURFACE	190.77	190.60	190.31	190.29	190.28	
CHAINAGE	0.00	15.06	66.90	71.70	72.30	73.74

SECTION A-A

LEGEND

- ROCK BEACHING (400mm DEPTH)
- ROCK SPALLS
- GABION WALL (IN STACKED BASKETS)
- CLAY LINER (MIN 300mm)
- TOPSOIL (IF REQUIRED)
- CONCRETE WEIR
- FCR BASE
- STRUCTURAL FILL

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

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SCALE H 1:1,000 V 1:100
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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EASTERN SEDIMENTATION BASIN SECTIONS
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R14 / 32
REV: A

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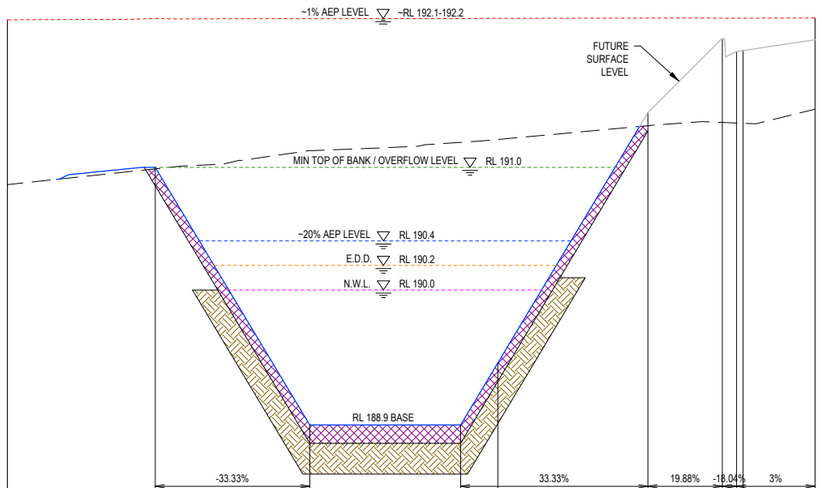
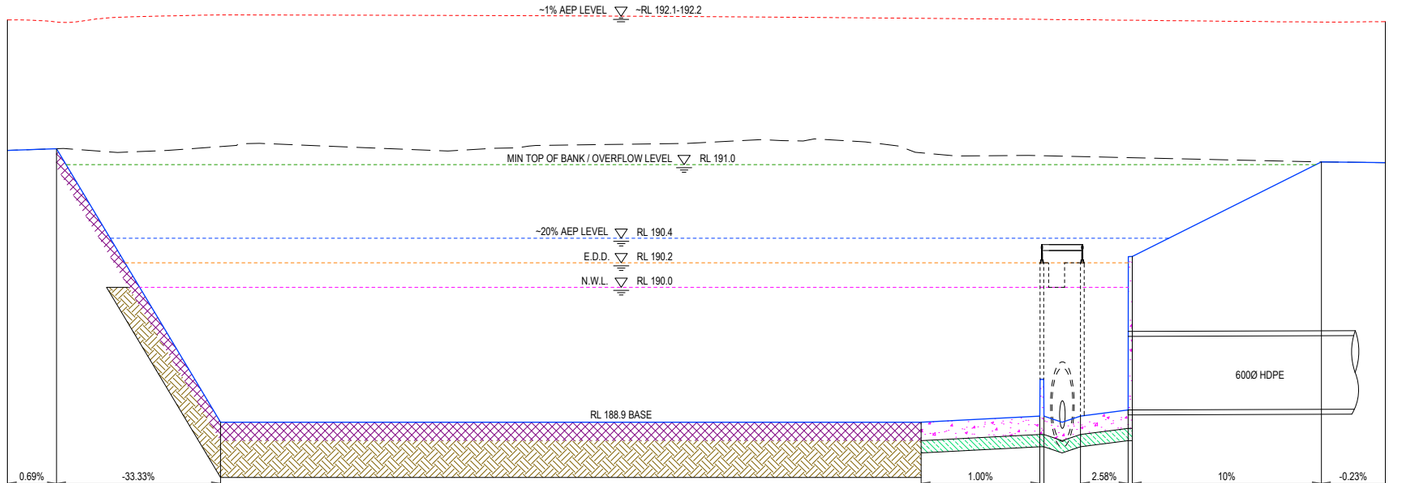
LEGEND

- ROCK BEACHING (400mm DEPTH)
- ROCK SPALLS
- GABION WALL (IN STACKED BASKETS)
- CLAY LINER (MIN 300mm)
- TOPSOIL (IF REQUIRED)
- CONCRETE WEIR
- FCR BASE
- STRUCTURAL FILL



DESIGN LIP OF KERB											
HORIZ. GEOMETRY											
DATUM RL 188.0											
DESIGN SURFACE		191.00	188.90	188.90	189.41	191.45	192.05	191.94	191.95	192.04
EXISTING SURFACE	190.86	189.99	191.14	191.20	191.23	191.34	191.37	191.36	191.36	191.47
CHAINAGE	0.00	6.03	12.33	18.48	20.00	26.12	29.15	29.73	30.00	32.93

SECTION D-D



DESIGN LIP OF KERB												
HORIZ. GEOMETRY												
DATUM RL 188.0												
DESIGN SURFACE	191.12	191.13	188.90	188.90	188.95	188.95	188.95	189.00	190.25	191.02	191.02
EXISTING SURFACE	191.12	191.13	191.15	191.10	191.07	191.07	191.07	191.06	191.06	191.02	191.02
CHAINAGE	0.00	2.00	8.69	37.26	42.10	42.27	43.76	45.70	45.87	53.58	56.19

SECTION C-C

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SERENE DRIVE STRATHFIELDSAYE
EASTERN POND SECTIONS
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R15 / 32
REV: A

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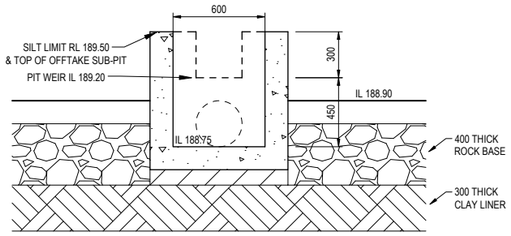
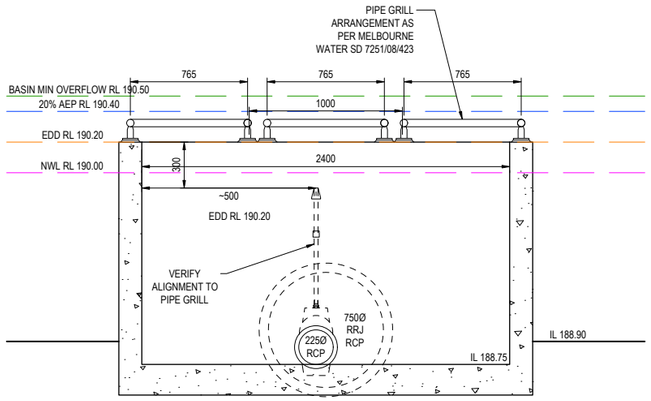


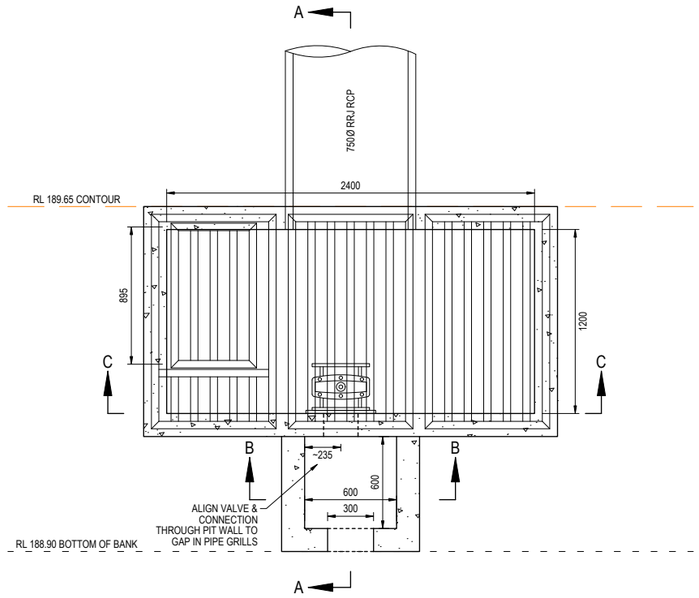
EAST SED BASIN - OUTLET PIT 40D SECTION B-B

SCALE 1:40 (A3)



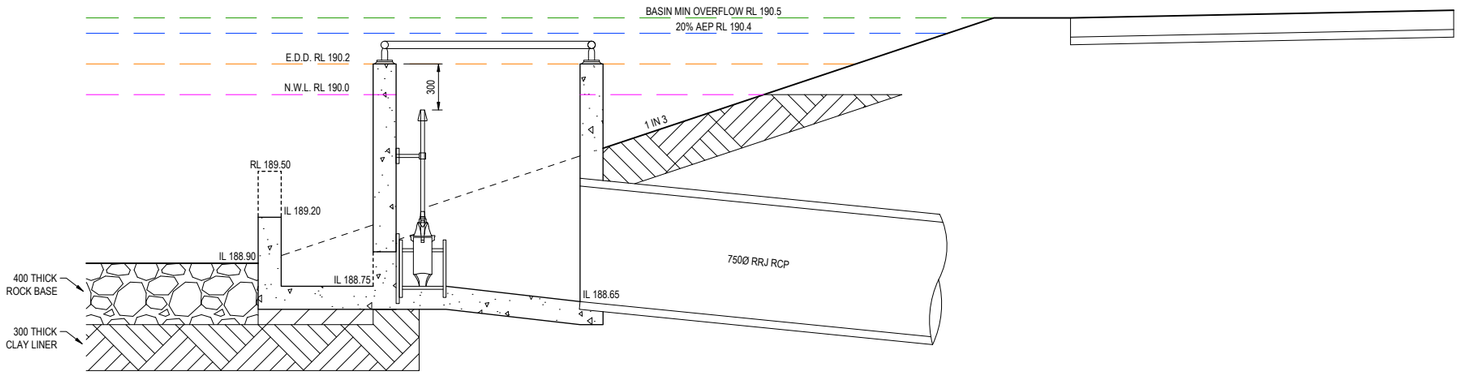
EAST SED BASIN - OUTLET PIT 40D SECTION C-C

SCALE 1:40 (A3)



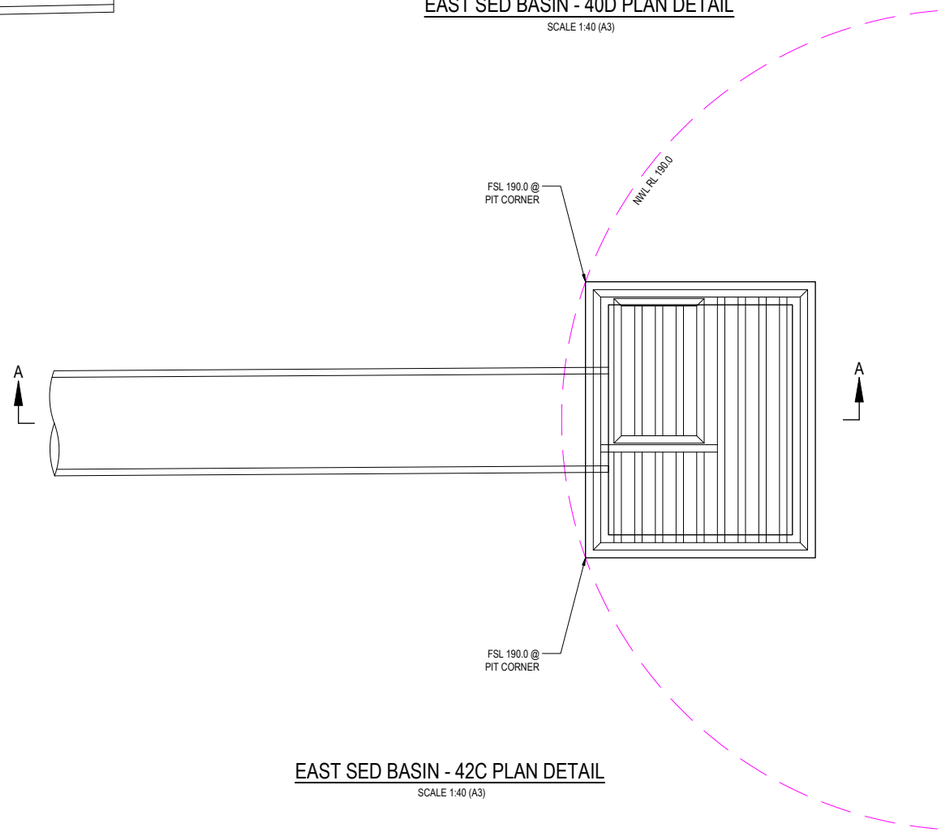
EAST SED BASIN - 40D PLAN DETAIL

SCALE 1:40 (A3)



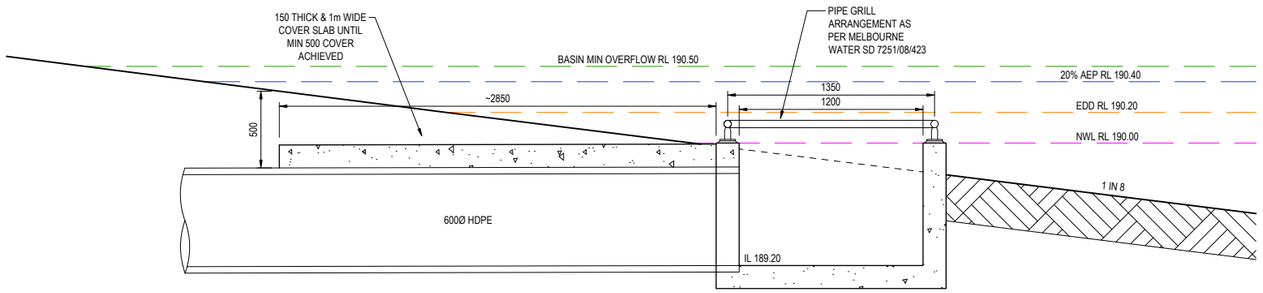
EAST SED BASIN - OUTLET PIT 40D SECTION A-A

SCALE 1:40 (A3)



EAST SED BASIN - 42C PLAN DETAIL

SCALE 1:40 (A3)



EAST SED BASIN - OUTLET PIT 42C SECTION A-A

SCALE 1:40 (A3)

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SCALE 1:40
0.4 0 0.4 0.8 1.2 1.6 2.0
LENGTHS ARE IN METRES - PAPER SIZE A3

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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EASTERN SEDIMENTATION BASIN PIT DETAILS
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R16 / 32
REV: A

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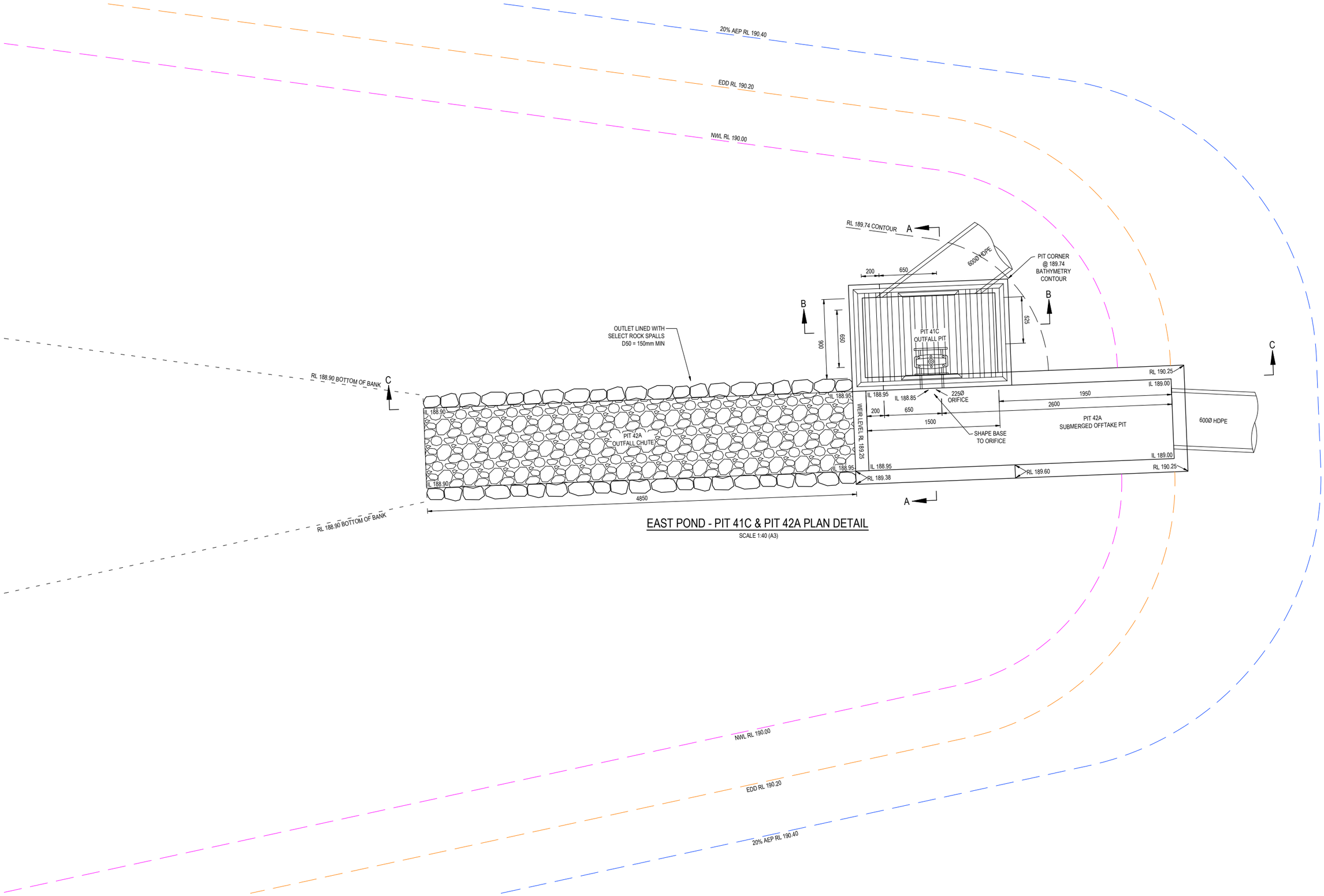

EAST POND - PIT 41C & PIT 42A PLAN DETAIL

SCALE 1:40 (A3)

REV	REVISION	DES	DWG	CHK	AUTH	DATE
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RPE: NATHAN BAWDEN - 0015036

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imagine STRATHFIELDSAYE

SCALE 1:40
0.4 0 0.4 0.8 1.2 1.6 2.0
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EASTERN POND PIT DETAILS (1 OF 2)
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R17 / 32
REV: A

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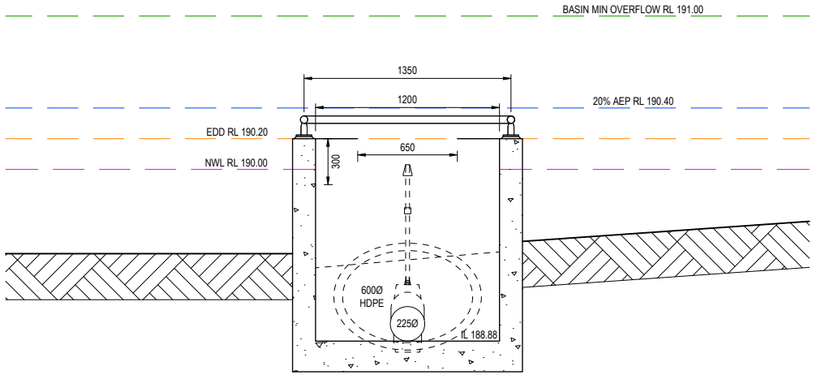
PLOT DATE: 11/12/2025 FILE: C:\12DDATA\TOMMKBGO-12DS\01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R+D REV A.DWG



EAST POND - OUTLET PIT 41C SECTION B-B

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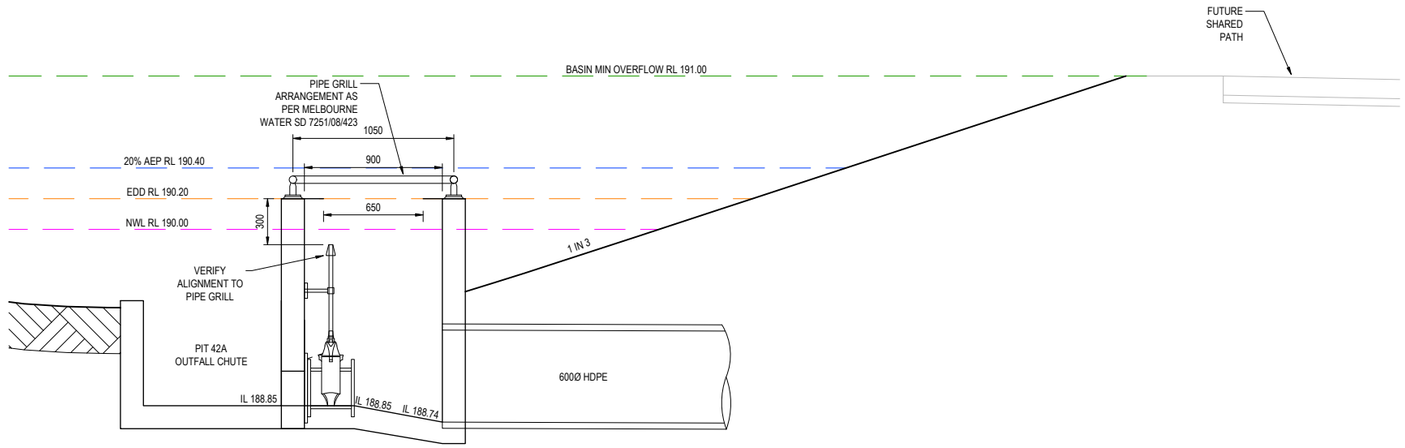

EAST POND - OUTLET PIT 41C SECTION A-A

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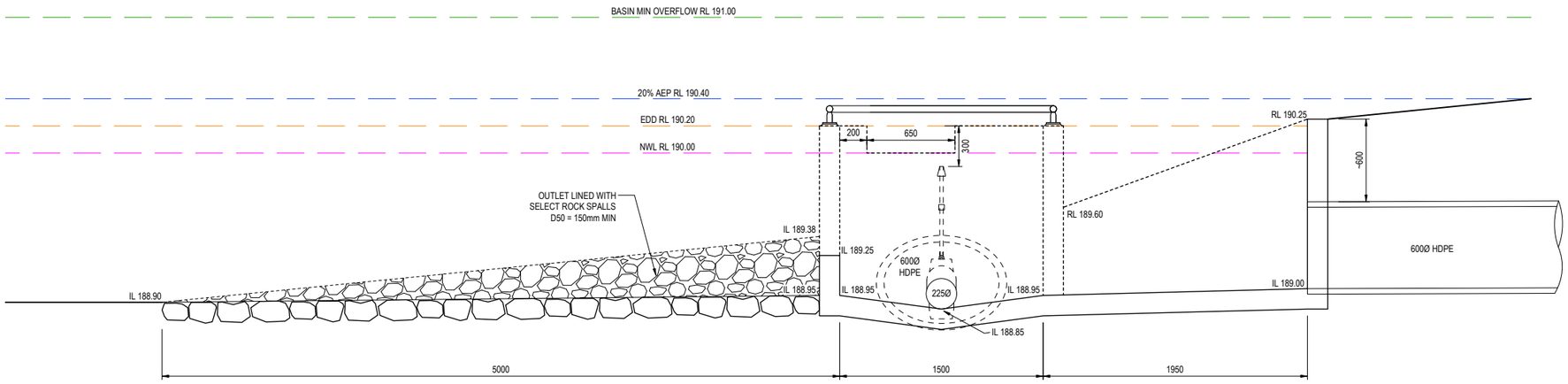

EAST POND - OUTLET PIT 41C SECTION C-C

SCALE 1:40 (A3)

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SCALE 1:40
0.4 0 0.4 0.8 1.2 1.6 2.0
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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
EASTERN POND PIT DETAILS (2 OF 2)
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R18 / 32
REV: A

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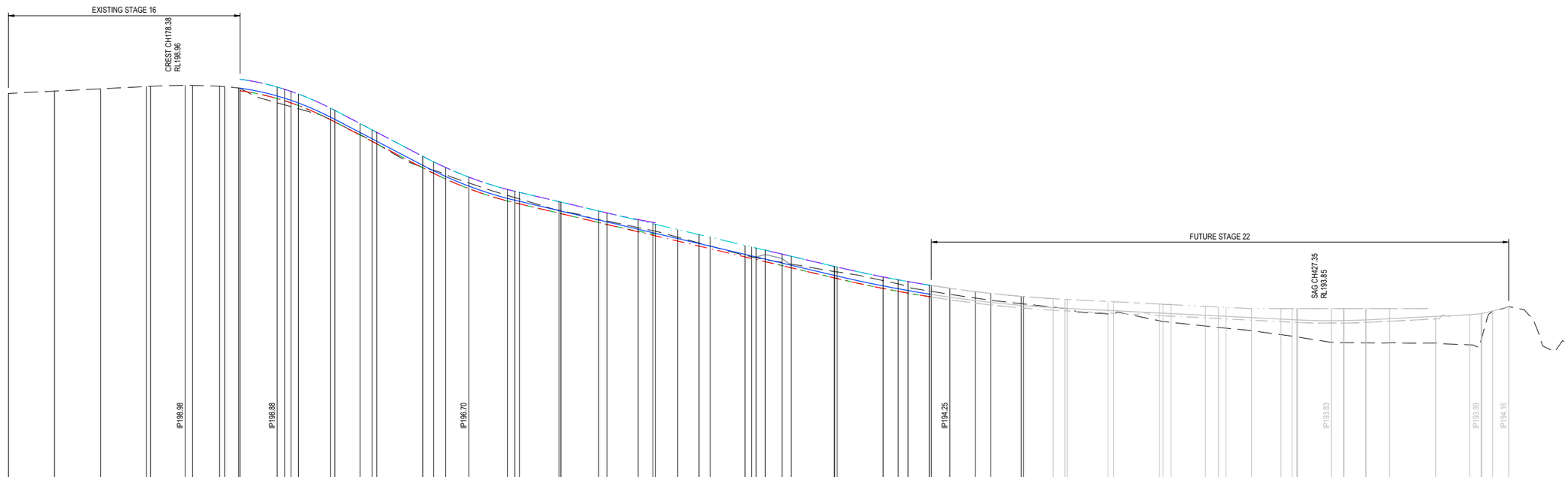
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOMKBGO-12DS01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG00\CAD\CURRENT\502301 R+D REVA.DWG



DESIGN C.L.

HORIZ. GEOMETRY

DATUM RL 189.0

CHAINAGE	EXISTING SURFACE	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
140.00	198.78					
150.00	198.83					
160.00	198.88					
170.00	198.93					
170.88	198.94					
178.38	198.96					
180.00	198.96					
185.88	198.94					
186.98	198.93					
190.00	198.90					
190.33	198.90					
198.38	198.58	198.73	198.92	198.92	198.67	198.67
200.00	198.50	198.68	198.87	198.87	198.62	198.62
201.38	198.50	198.63	198.83	198.83	198.58	198.58
202.98	198.45	198.58	198.77	198.77	198.52	198.52
210.00	198.21	198.22	198.46	198.46	198.21	198.21
210.88	198.16	198.22	198.42	198.42	198.17	198.17
216.38	197.89	197.93	198.13	198.13	197.88	197.88
218.98	197.75	197.80	197.99	197.99	197.74	197.74
220.00	197.69	197.75	197.94	197.94	197.69	197.69
230.00	197.18	197.22	197.42	197.42	197.17	197.17
232.38	197.11	197.10	197.30	197.30	197.05	197.05
234.98	197.02	196.98	197.17	197.17	196.92	196.92
240.00	196.84	196.77	196.97	196.97	196.72	196.72
248.38	196.57	196.50	196.70	196.70	196.45	196.45
250.00	196.52	196.47	196.66	196.66	196.41	196.41
250.98	196.49	196.44	196.64	196.64	196.39	196.39
259.58	196.24	196.24	196.43	196.43	196.18	196.18
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300.00	195.27	195.29	195.48		195.23	
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302.41	195.22	195.23	195.43		195.18	
304.41	195.18	195.19	195.38	195.38	195.13	195.13
308.01	195.12	195.10	195.30	195.30	195.05	195.05
310.00	195.08	195.06	195.25	195.25	195.00	195.00
310.01	195.08	195.05	195.25	195.25	195.00	195.00
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319.47	194.92	194.83	195.03	195.03	194.78	194.78
320.00	194.91	194.82	195.01	195.01	194.76	194.76
330.00	194.72	194.61	194.80	194.80	194.55	194.55
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335.38	194.58	194.51	194.70	194.70	194.45	194.45
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344.47	194.42	194.36	194.56	194.56	194.31	194.31
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353.38	194.29	194.25	194.44	194.44	194.19	194.19
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366.88	194.15	194.13	194.33	194.33	194.08	194.08
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380.00	193.99	194.07	194.26	194.26	194.01	
390.00	193.85	193.96	194.21	194.21	193.96	
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402.83	193.70		194.15	194.00	193.90	
404.46	193.69		194.14	193.95	193.89	
410.00	193.63		194.11	193.92	193.86	
416.41	193.55	193.89	194.11	193.89	194.11	193.83
418.83	193.51	193.82	194.11	193.87	194.11	193.82
419.85	193.50	193.81	194.11	193.87	194.11	193.81
420.00	193.50	193.81	194.11	193.87	194.11	193.81
427.35	193.38	193.80	194.11	193.85	194.11	193.80
430.00	193.37	193.80	194.11	193.85	194.11	193.80
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434.63	193.37	193.81	194.11	193.87	194.11	193.81
434.85	193.37	193.81	194.11	193.87	194.11	193.81
440.00	193.37	193.84	194.11	193.89	194.11	193.84
450.00	193.37	193.89	193.94	193.94	193.89	193.89
457.36	193.33	193.42	193.98	193.98	193.33	193.42
459.86	193.42	193.47	194.01	194.01	193.47	193.47
460.00	193.47	193.47	194.01	194.01	193.47	193.47
462.36	194.06	194.06	194.06	194.06	194.06	194.06
465.86	194.16	194.16	194.16	194.16	194.16	194.16

SERENE DRIVE

REV	REVISION	DES	DWG	CHK	AUTH	DATE
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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
SERENE DRIVE LONG SECTION

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022

STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**

PROJECT & DWG No: 502301 R19 / 32

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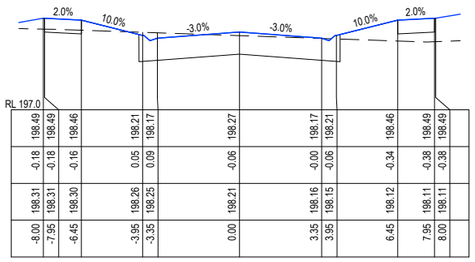

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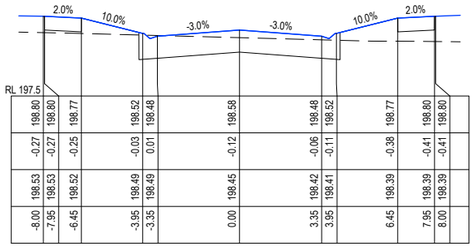

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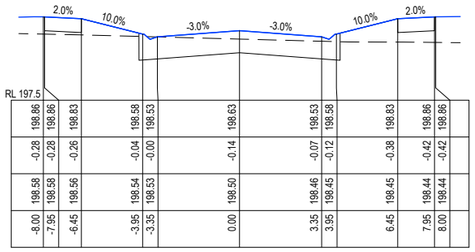

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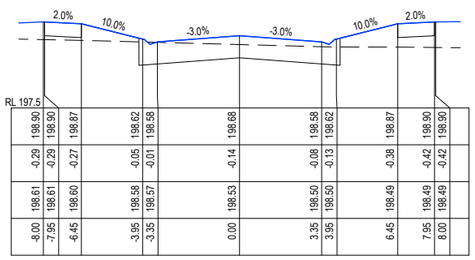

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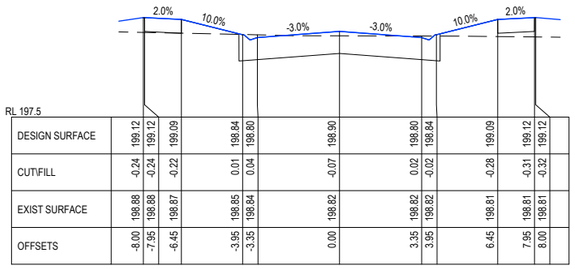

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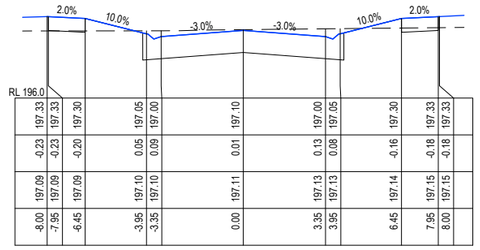

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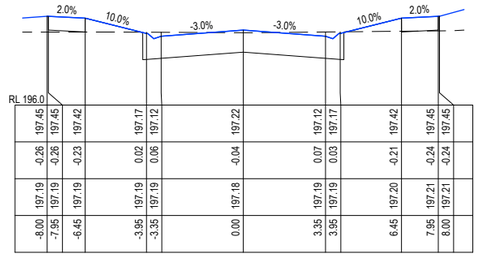

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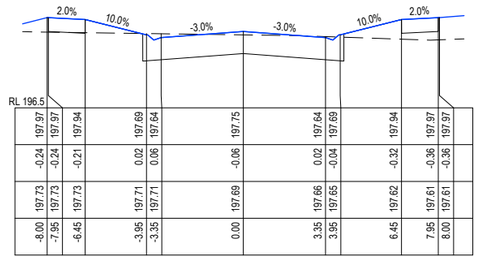

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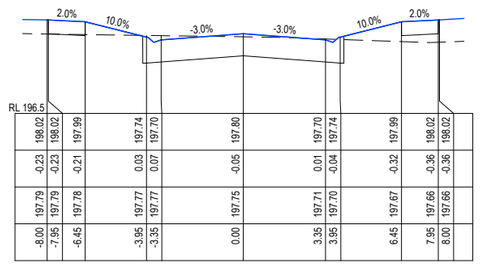

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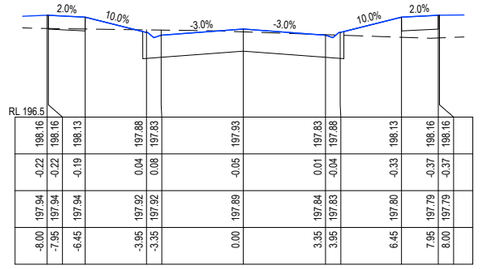

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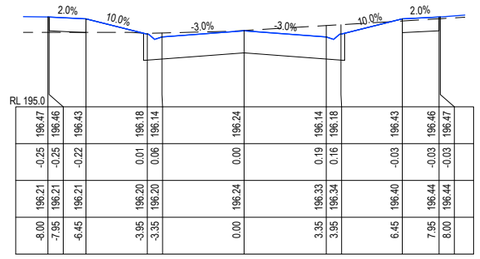

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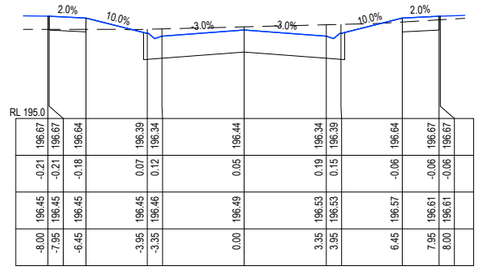

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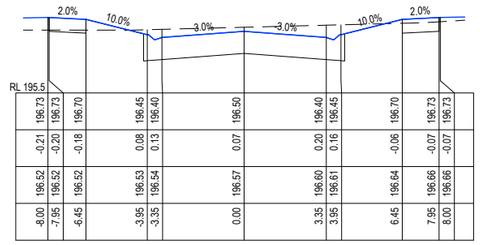

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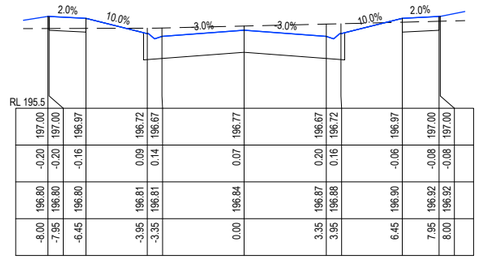

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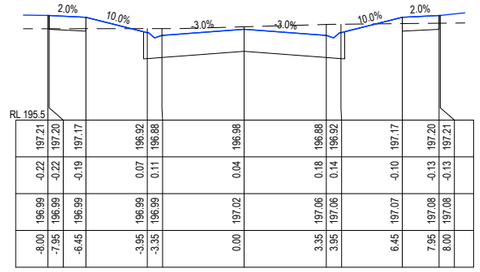

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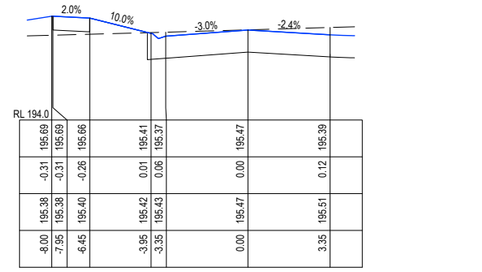

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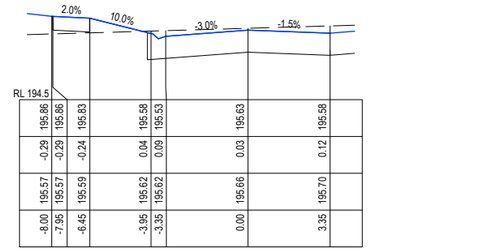

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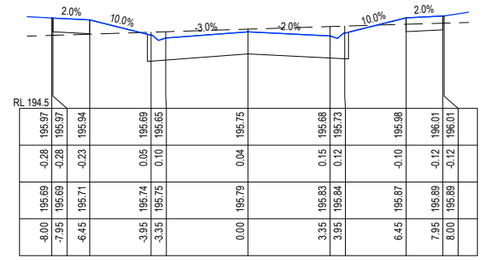

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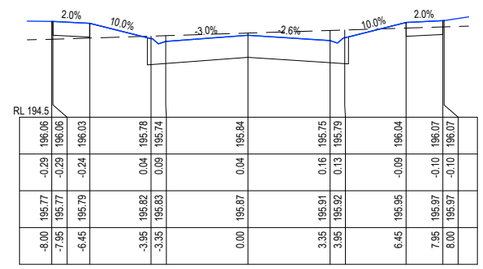

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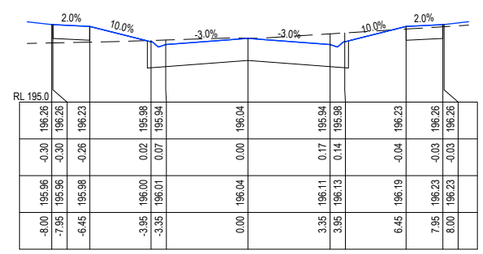

CH 268.18

SERENE DRIVE

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAYDEN - 0015036

Tomkinson
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HEAD OFFICE: 57 MYERS STREET BENDIGO PH 03 5445 8700
ABN 11 103 336 358 WWW.TOMKINSON.COM

imagine STRATHFIELDSAYE

SCALE H 1:250 V 1:100
H 2.5 0 2.5 5 7.5 10 12.5 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
SERENE DRIVE CROSS SECTIONS (1 OF 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R20 / 32
REV: A

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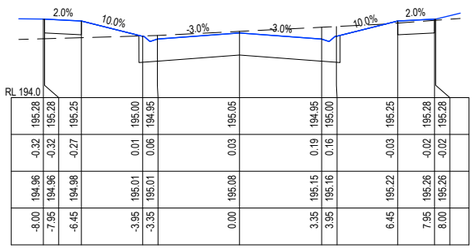
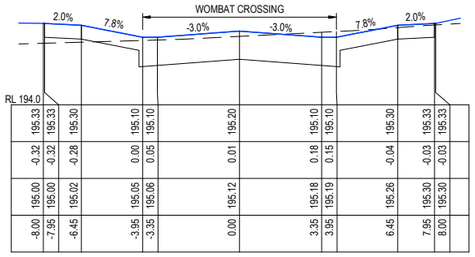
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOM\RGCO-12DS\01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R+D REVA.DWG



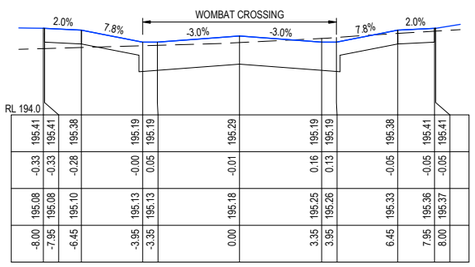
-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00
194.96	194.96	194.98	195.01	195.01	195.08	195.15	195.16	195.22	195.26	195.26
-0.32	-0.32	-0.27	0.01	0.06	0.03	0.19	0.16	-0.03	-0.02	-0.02
195.28	195.28	195.25	195.00	194.95	195.05	194.95	195.00	195.25	195.28	195.28

CH 310.01



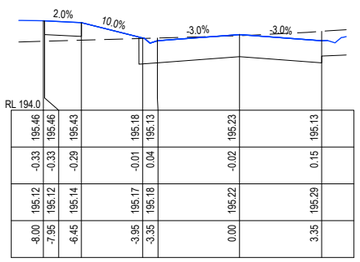
-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00
195.00	195.00	195.02	195.05	195.06	195.12	195.18	195.19	195.26	195.30	195.30
-0.32	-0.32	-0.28	0.00	0.05	0.01	0.18	0.15	-0.04	-0.03	-0.03
195.33	195.33	195.30	195.10	195.10	195.20	195.10	195.10	195.30	195.33	195.33

CH 308.01



-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00
195.08	195.08	195.10	195.13	195.13	195.18	195.25	195.26	195.33	195.36	195.37
-0.33	-0.33	-0.28	-0.00	0.05	-0.01	0.16	0.13	-0.05	-0.05	-0.05
195.41	195.41	195.38	195.19	195.19	195.29	195.19	195.19	195.38	195.41	195.41

CH 304.41



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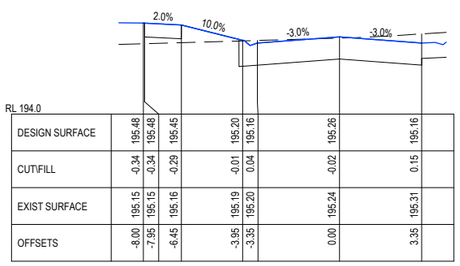
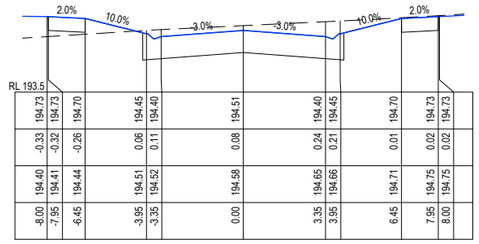
195.12	195.12	195.14	195.17	195.18	195.22	195.29	
-0.33	-0.33	-0.29	-0.01	0.04	-0.02	0.15	
195.46	195.46	195.43	195.18	195.13	195.23	195.13	

CH 302.41



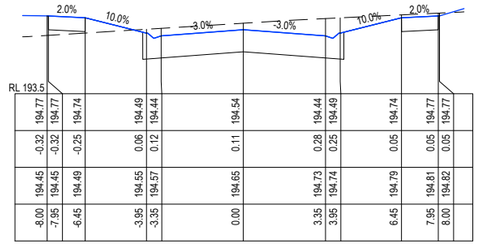
DESIGN SURFACE	195.48	195.48	195.45	195.20	195.16	195.26	195.16	
CUT\FILL	-0.34	-0.34	-0.29	-0.01	0.04	-0.02	0.15	
EXIST SURFACE	195.15	195.15	195.16	195.19	195.20	195.24	195.31	
OFFSETS	-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	

CH 301.38



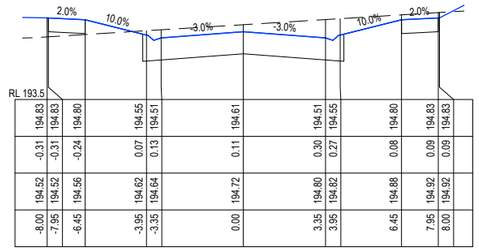
-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00
194.40	194.41	194.44	194.51	194.52	194.58	194.65	194.66	194.71	194.75	194.75
-0.33	-0.32	-0.26	0.06	0.11	0.08	0.24	0.21	0.01	0.02	0.02
194.73	194.73	194.70	194.45	194.40	194.51	194.40	194.45	194.70	194.73	194.73

CH 335.38



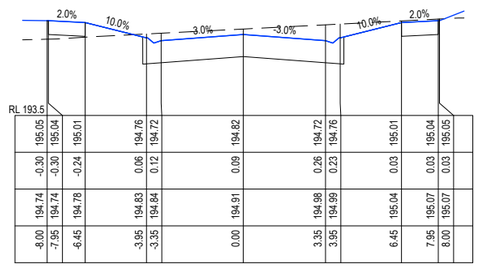
-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00
194.45	194.45	194.49	194.55	194.57	194.65	194.73	194.74	194.79	194.81	194.82
-0.32	-0.32	-0.25	0.06	0.12	0.11	0.28	0.25	0.05	0.05	0.05
194.77	194.77	194.74	194.49	194.44	194.54	194.44	194.49	194.74	194.77	194.77

CH 333.26



-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00
194.52	194.52	194.56	194.82	194.64	194.72	194.80	194.82	194.88	194.92	194.92
-0.31	-0.31	-0.24	0.07	0.13	0.11	0.30	0.27	0.08	0.09	0.09
194.83	194.83	194.80	194.55	194.51	194.61	194.51	194.55	194.80	194.83	194.83

CH 330



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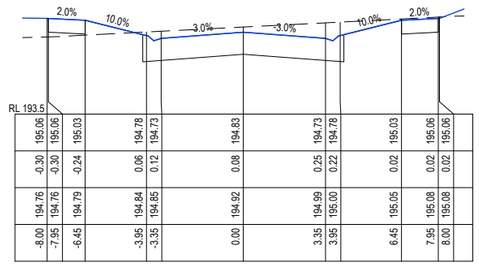
194.74	194.74	194.78	194.83	194.84	194.91	194.98	194.99	195.04	195.07	195.07
-0.30	-0.30	-0.24	0.06	0.12	0.09	0.26	0.23	0.03	0.03	0.03
195.05	195.04	195.01	194.76	194.72	194.82	194.72	194.76	195.01	195.04	195.05

CH 320



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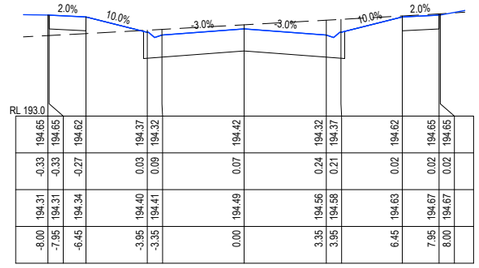
194.76	194.76	194.79	194.84	194.85	194.92	194.99	195.00	195.05	195.08	195.08
-0.30	-0.30	-0.24	0.06	0.12	0.08	0.25	0.22	0.02	0.02	0.02
195.06	195.06	195.03	194.78	194.73	194.83	194.73	194.78	195.03	195.06	195.06

CH 319.38



-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00
194.31	194.31	194.34	194.40	194.41	194.49	194.56	194.58	194.63	194.67	194.67
-0.33	-0.33	-0.27	0.03	0.09	0.07	0.24	0.21	0.02	0.02	0.02
194.65	194.65	194.62	194.37	194.32	194.42	194.32	194.37	194.62	194.65	194.65

CH 340.46

SERENE DRIVE

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
HEAD OFFICE: 57 MYERS STREET BENDIGO PH 03 5445 8700
ABN 11 103 336 358 WWW.TOMKINSON.COM

imagine STRATHFIELDSAYE

SCALE H 1:250 V 1:100
H 2.5 0 2.5 5 7.5 10 12.5 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
SERENE DRIVE CROSS SECTIONS (2 OF 2)
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R21 / 32
REV: A

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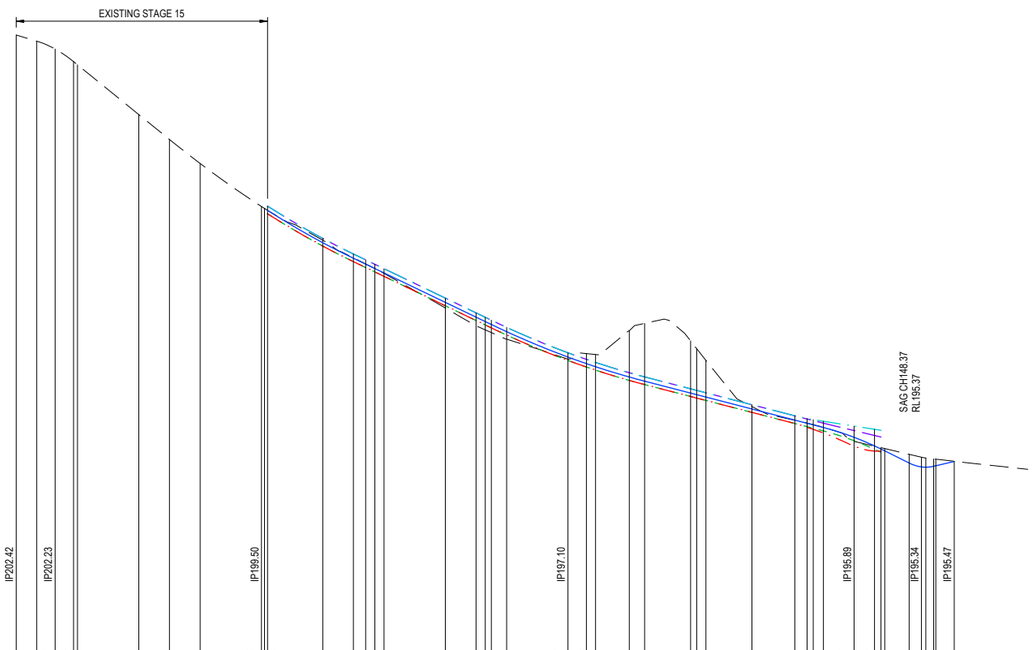
PLOT DATE: 11/12/2025 FILE: C:\12DDATA\TOMKBGO-12DS\01502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R+D REVA.DWG



CHAINAGE	EXISTING SURFACE	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
0.00	202.42					
3.35	202.32					
6.35	202.19					
9.35	201.99					
10.00	201.93					
20.00	201.12					
25.00	200.72					
30.00	200.32					
40.00	199.62					
40.50	199.59	199.56	199.63	199.63	199.50	199.50
41.00	199.56	199.56	199.63	199.63	199.50	199.50
50.00	199.07	199.03	199.10	199.10	198.98	198.98
55.00	198.79	198.78	198.85	198.85	198.72	198.72
57.00	198.69	198.68	198.75	198.75	198.63	198.63
58.50	198.61	198.60	198.68	198.68	198.56	198.56
60.00	198.53	198.54	198.61	198.61	198.48	198.48
70.00	197.97	198.06	198.13	198.13	198.00	198.00
75.00	197.68	197.82	197.89	197.89	197.76	197.76
76.50	197.61	197.75	197.82	197.82	197.69	197.69
77.50	197.57	197.70	197.77	197.77	197.64	197.64
80.00	197.46	197.58	197.65	197.65	197.53	197.53
90.00	197.13	197.17	197.24	197.24	197.11	197.11
93.00	197.23	197.06	197.13	197.13	197.01	197.01
94.50	197.21	197.01	197.08	197.08	196.96	196.96
100.00	197.60	196.84	196.91	196.91	196.79	196.79
102.50	197.72	196.78	196.85	196.85	196.72	196.72
110.00	197.43	196.58	196.65	196.65	196.53	196.53
111.00	197.31	196.56	196.63	196.63	196.50	196.50
112.50	197.11	196.52	196.59	196.59	196.46	196.46
120.00	196.36	196.32	196.39	196.39	196.27	196.27
127.00	196.14	196.14	196.21	196.21	196.08	196.09
129.00	196.09	196.09	196.16	196.16	196.02	196.03
130.00	196.07	196.06	196.17	196.17	196.01	196.01
131.66	196.02	196.02	196.13	196.13	195.99	195.96
136.66	195.80	195.86	196.09	196.09	195.93	195.93
140.00	195.72	195.72	196.04	196.04	195.72	195.80
141.05	195.69	195.67	195.99	195.89	195.64	195.66
141.66	195.68	195.64				
145.65	195.58	195.44				
147.65	195.54	195.38				
148.37	195.52	195.37				
149.65	195.51	195.39				
150.00	195.50	195.40				
153.00	195.47	195.47				

ACCORD ST

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
HEAD OFFICE: 57 MYERS STREET BENDIGO PH 03 5445 8700
ABN 11 103 336 358 WWW.TOMKINSON.COM

imagine STRATHFIELDSAYE

SCALE H 1:1,000 V 1:100
H 10 0 10 20 30 40 50 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
ACCORD STREET LONG SECTION
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R22 / 32
REV: A

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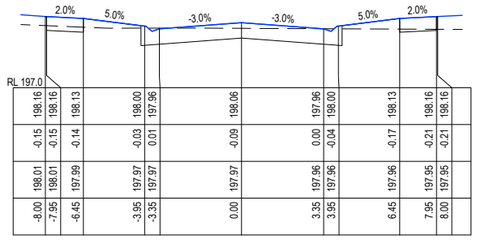
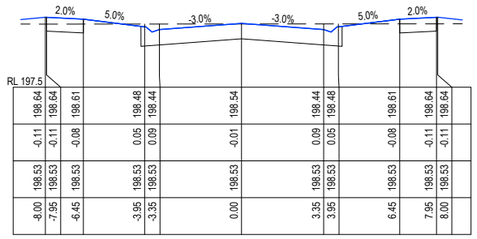
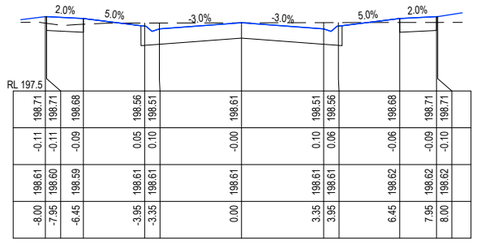
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOMKBGO-12DS01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R-D REV A.DWG



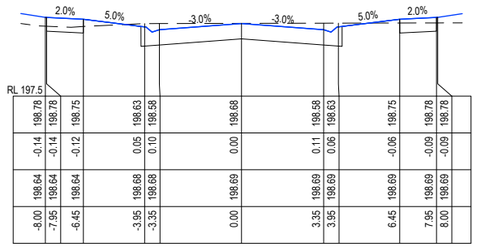
CH 70



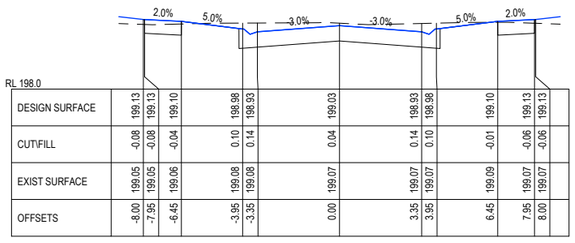
CH 60



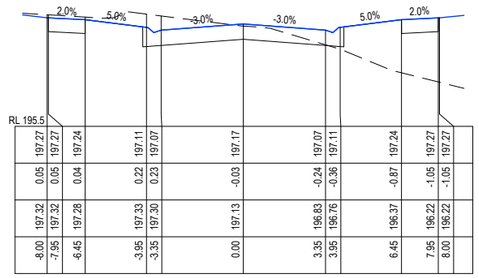
CH 58.5



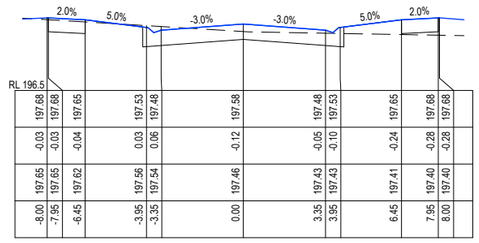
CH 57



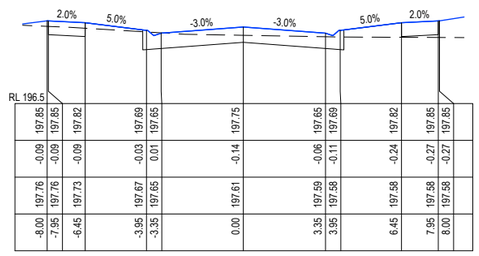
CH 50



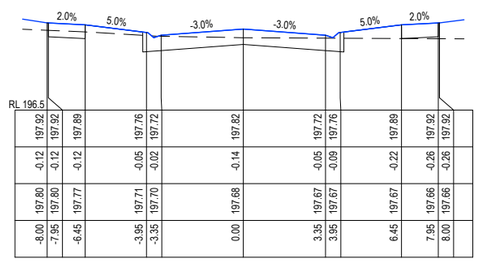
CH 90



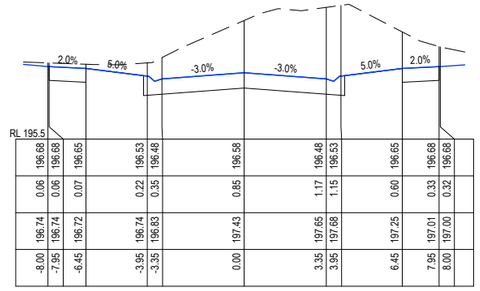
CH 80



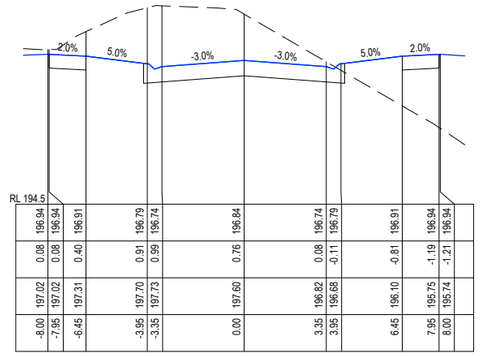
CH 76.5



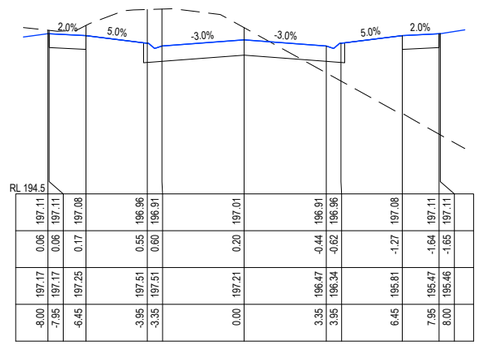
CH 75



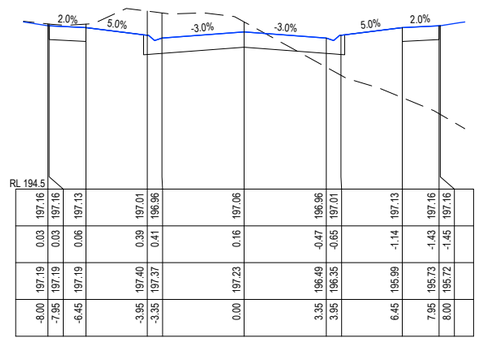
CH 110



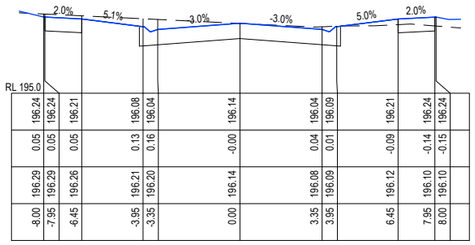
CH 100



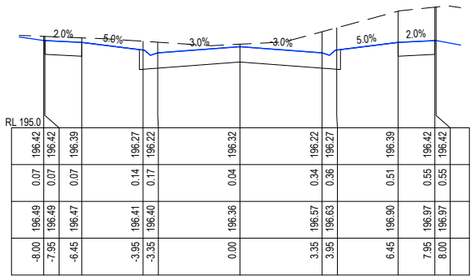
CH 94.5



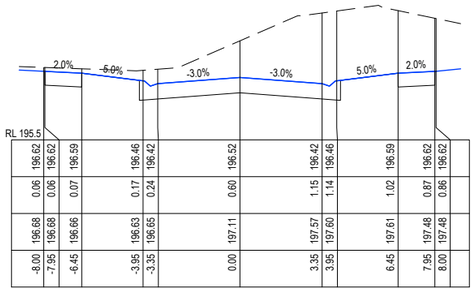
CH 93



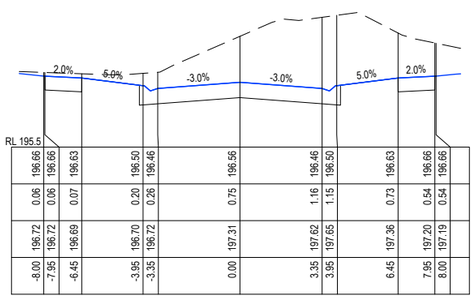
CH 127



CH 120



CH 112.5



CH 111

ACCORD ST

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

Tomkinson
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ABN 11 103 336 358 WWW.TOMKINSON.COM

imagine STRATHFIELDSAYE

SCALE H 1:250 V 1:100
H 2.5 0 2.5 5 7.5 10 12.5 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
ACCORD STREET CROSS SECTIONS (1 OF 2)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R23 / 32
REV: A

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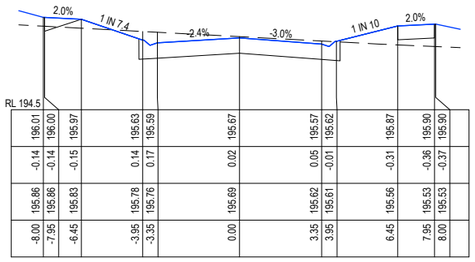
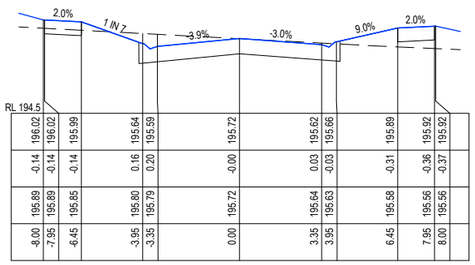
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOMKBGO-12DS01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_84051ENG00\CAD\CURRENT\502301 R+D REVA.DWG



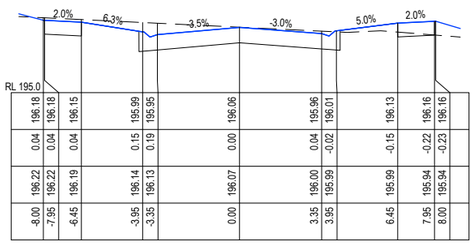
	196.01	196.00	195.97	195.63	195.59	195.67	195.57	195.62	195.87	195.90	195.90
	-0.14	-0.14	-0.15	0.14	0.17	0.02	0.05	-0.01	-0.31	-0.36	-0.37
	195.86	195.86	195.83	195.78	195.76	195.69	195.62	195.61	195.56	195.53	195.53
	-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00

CH 141.05



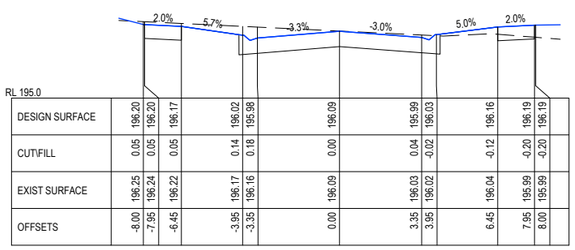
	196.02	196.02	195.99	195.64	195.59	195.72	195.62	195.66	195.89	195.92	195.92
	-0.14	-0.14	-0.14	0.16	0.20	-0.00	0.03	-0.03	-0.31	-0.36	-0.37
	195.89	195.89	195.85	195.80	195.79	195.72	195.64	195.63	195.58	195.56	195.56
	-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00

CH 140



	196.18	196.18	196.15	195.99	195.95	196.06	195.96	196.01	196.13	196.16	196.16
	0.04	0.04	0.04	0.15	0.19	0.00	0.04	-0.02	-0.15	-0.22	-0.23
	196.22	196.22	196.19	196.14	196.13	196.07	196.00	195.99	195.99	195.94	195.94
	-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00

CH 130



DESIGN SURFACE	196.20	196.20	196.17	196.02	195.98	196.09	195.99	196.03	196.16	196.19	196.19
CUT\FILL	0.05	0.05	0.05	0.14	0.18	0.00	0.04	-0.02	-0.12	-0.20	-0.20
EXIST SURFACE	196.25	196.24	196.22	196.17	196.16	196.09	196.03	196.02	196.04	195.99	195.99
OFFSETS	-8.00	-7.95	-6.45	-3.95	-3.35	0.00	3.35	3.95	6.45	7.95	8.00

CH 129

ACCORD ST

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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SCALE H 1:250 V 1:100
H 2.5 0 2.5 5 7.5 10 12.5 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
ACCORD STREET CROSS SECTIONS (1 OF 2)
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R24 / 32
REV: A

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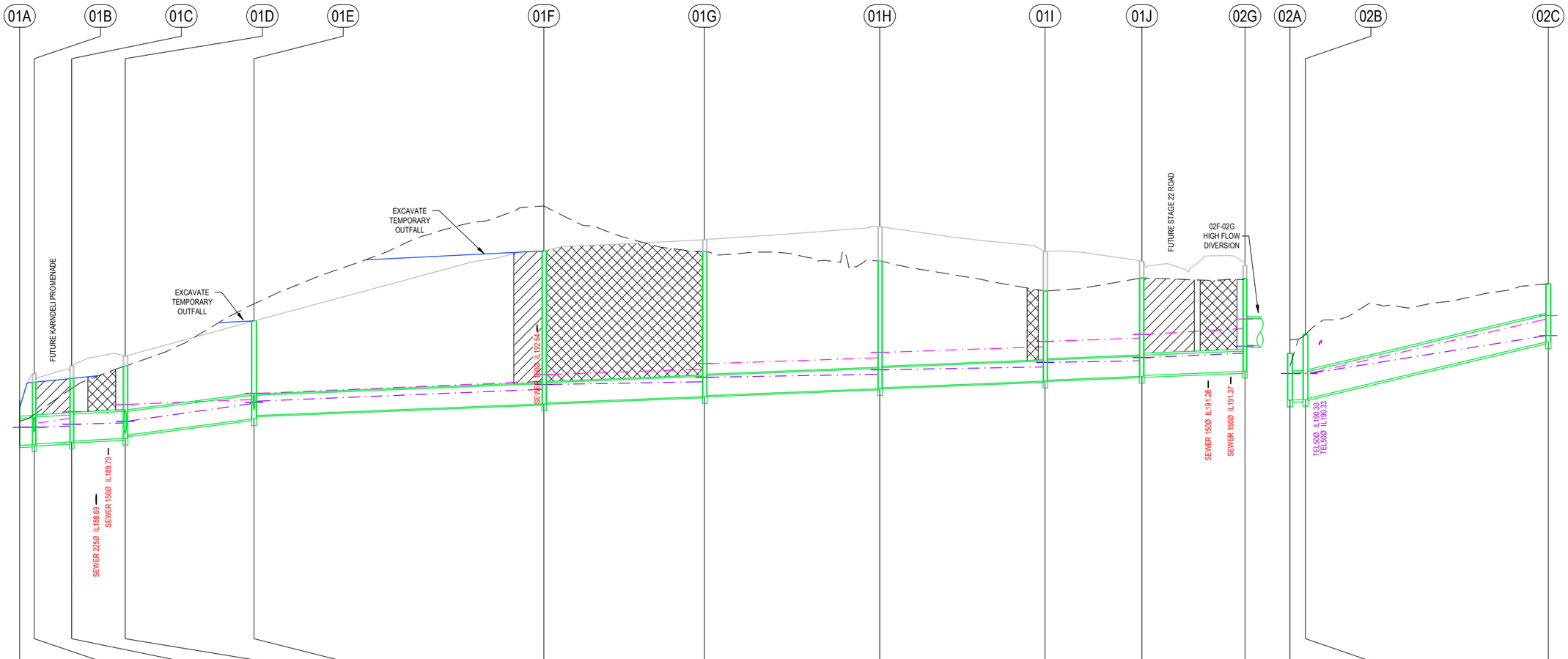
PLOT DATE: 11/12/2025 FILE: C:\T2D\DATA\TOMKBGO-T2DS01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R+D REVA.DWG

NOTE:

DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL

DENOTES FULL DEPTH 20mm CLASS 4 BACKFILL

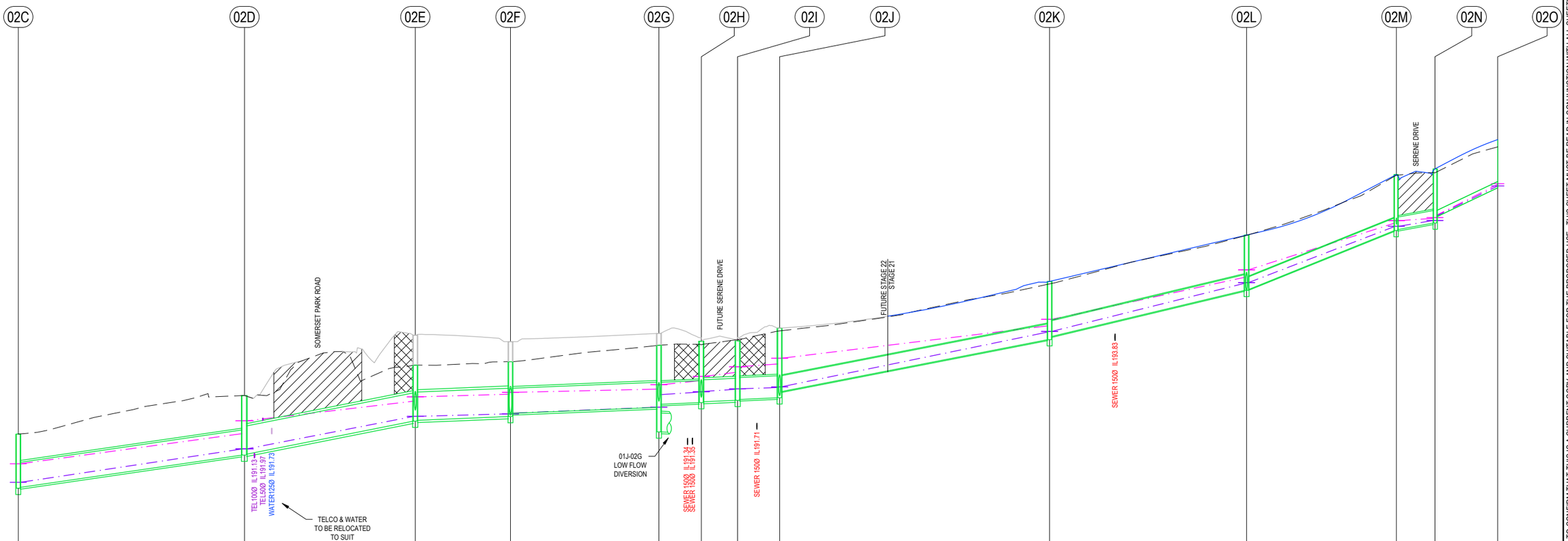


| | | |

NOTE:

DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL

DENOTES FULL DEPTH 20mm CLASS 4 BACKFILL



DESIGN FLOW (l/s)		624 53			560 35			477 10			443 0			472 141			454 135			451 134			207 62			181 54			52 16			21 6			8 2	
CAPACITY (l/s)		955 955			1170 1170			532 532			505 505			354 354			268 268			357 357			316 316			349 349			249 249			127 127			47 47	
VELOCITY (m/s)		3.6 1.82			3.23 1.46			1.68 0.58			2.01 0.18			2.18 1.54			2.1 1.24			2.08 1.53			3.05 2.22			3.19 2.3			2.79 1.97			1.33 0.94			1.96 1.38	
PIPE DIAMETER (mm)		600Ø HDPE			675Ø RCP CL2 FJ			675Ø RCP CL2 RRJ			600Ø HDPE			525Ø HDPE			525Ø RCP CL2 FJ			525Ø HDPE			375Ø HDPE			375Ø HDPE			300Ø HDPE			300Ø RCP CL2 FJ			150Ø PVC	
PIPE GRADE		1:69.9 (1.43%)			1:51.7 (1.94%)			1:250 (0.40%)			1:250 (0.40%)			1:250 (0.40%)			1:257 (0.39%)			1:245 (0.41%)			1:52.1 (1.92%)			1:42.7 (2.34%)			1:25.4 (3.93%)			1:58 (1.72%)			1:21.7 (4.61%)	
DATUM RL	185.0																																				
DEPTH TO INVERT	1.29	1.27		1.42	1.40		1.34	2.03 2.05	1.32	1.31	1.57 1.61	1.23	1.48	1.77	1.69 1.41	1.47	1.45	1.42	1.40	1.66	1.51		1.39	1.31		1.32	1.30		1.34	1.32		1.29	1.14		1.15
H.G.L (AEP) 20% 98.17%	190.44 190.81	190.88		191.24 191.60	191.91		192.02 192.38	192.48		192.08 192.55	192.59 192.69		192.24 192.67		192.77 192.54		192.60 192.87		192.66 193.07	193.20 192.87		192.70 193.27	193.40 192.77	193.42 192.72		194.03 194.18	194.33 194.04		195.19 195.54	195.51 195.21		196.55 196.63	196.69 196.55		196.69 196.74	196.75 196.82 196.80		197.51 197.55	197.57
INVERT LEVEL	190.30	190.32		191.09	191.11		191.90	191.92		192.01	192.09		192.23		192.31		192.35		192.40	192.42		192.46	192.61			193.85	193.92		195.02	195.04		196.45	196.47		196.63	196.78		197.47	
DESIGN SURFACE	191.59			192.51			193.24 193.30			193.32 193.30			193.71 194.00				193.81		193.81			194.12				195.24			196.34			197.79			197.92			198.62	
CHAINAGE	57.48		54.03	111.51		40.80	152.31		22.73	175.04		35.45	210.48			10.13	220.61			8.65	229.27			10.05	239.32			64.48	303.80			47.04	350.84			35.78	386.62			9.20	395.82			15.00	410.82

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

Tomkinson
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imagine STRATHFIELDSAYE

SCALE H 1:1,000 V 1:100
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
DRAINAGE LONG SECTIONS (2 OF 4)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R26 / 32
REV: A

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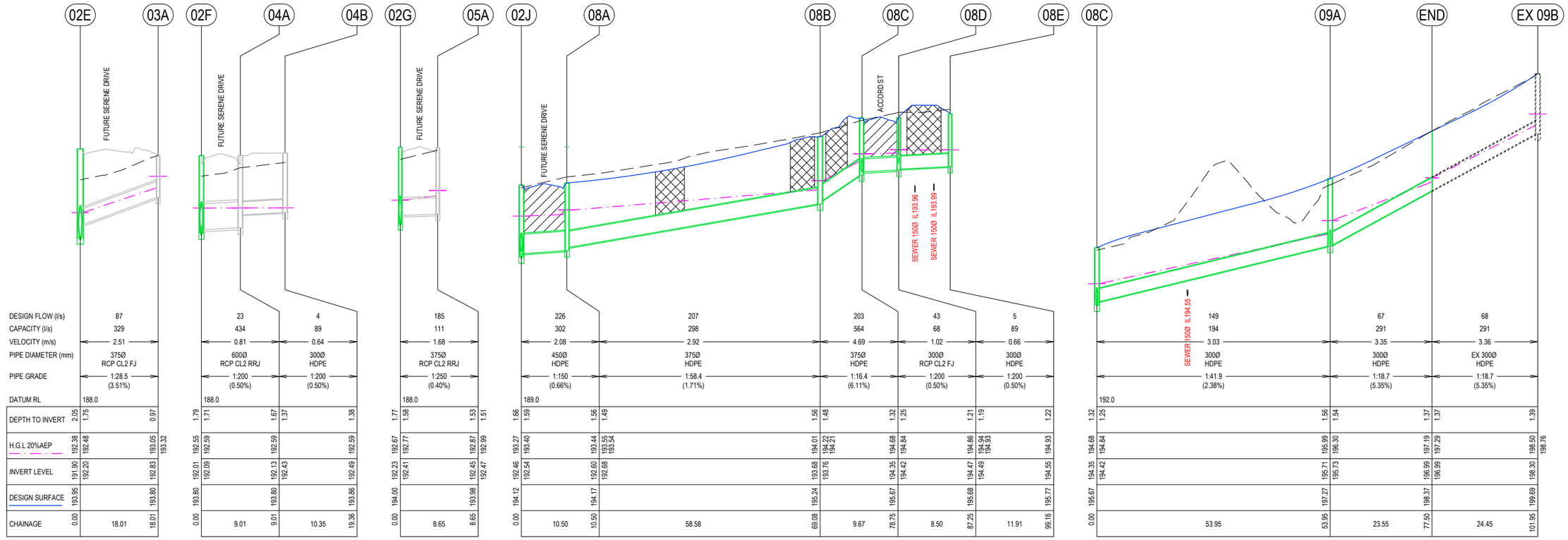
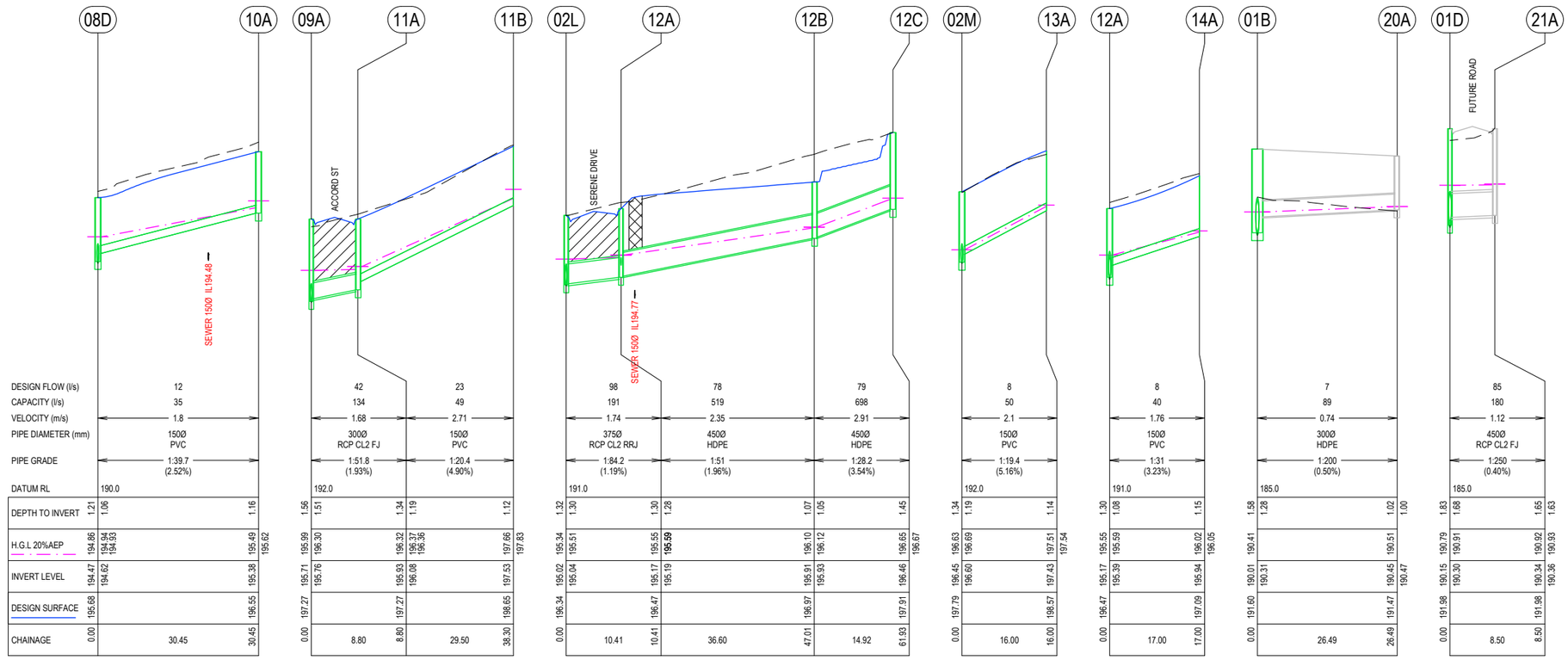
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOMMBGO-12DS01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_040\ENG\00\CAD\CURRENT\502301 R+D REVA.DWG





NOTE:

DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL

DENOTES FULL DEPTH 20mm CLASS 4 BACKFILL

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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imagine STRATHFIELDSAYE

SCALE H 1:1,000 V 1:100
LENGTHS ARE IN METRES - PAPER SIZE A3

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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
DRAINAGE LONG SECTIONS (3 OF 4)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R27 / 32
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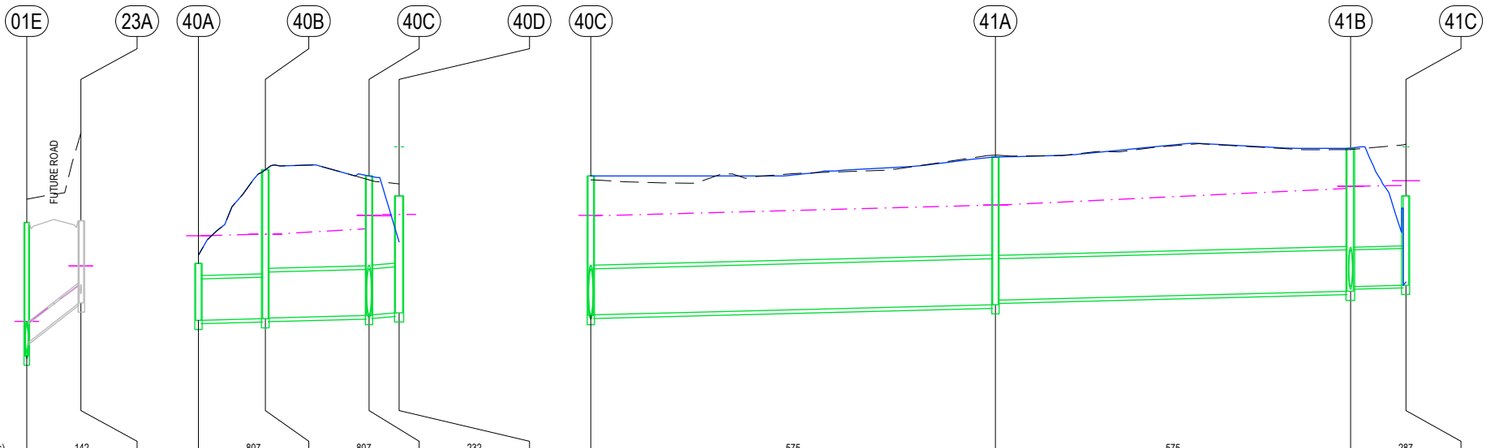
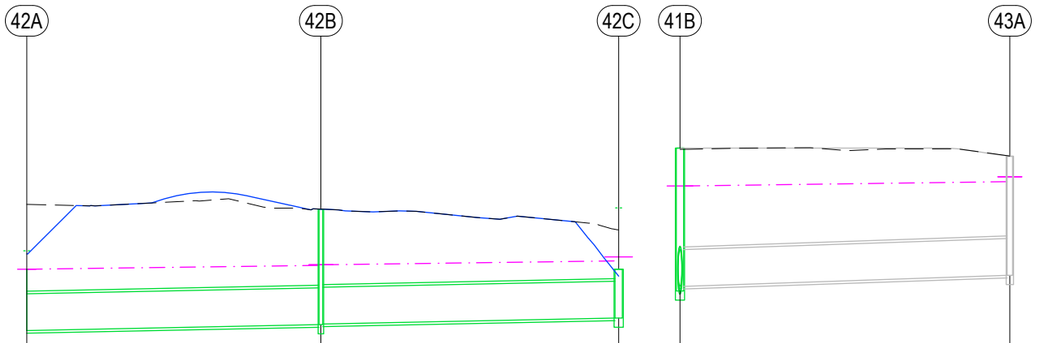
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOM\KBGO-12DS\01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R+D REVA.DWG



	01E	23A	40A	40B	40C	40D	40C	41A	41B	41C
DESIGN FLOW (l/s)	142		807	807	232		575	575	287	
CAPACITY (l/s)	261		841	557	909		557	420	399	
VELOCITY (m/s)	3.77		1.34	1.83	1.72		1.43	1.61	1.54	
PIPE DIAMETER (mm)	300Ø RCP CL2 FJ		(2x)675Ø RCP CL2 RRJ	750Ø RCP CL2 RRJ	750Ø RCP CL2 RRJ		750Ø RCP CL2 RRJ	675Ø RCP CL2 RRJ	600Ø HDPE	
PIPE GRADE	1:13.8 (7.26%)		1:400 (0.25%)	1:400 (0.25%)	1:150 (0.67%)		1:400 (0.25%)	1:400 (0.25%)	1:400 (0.25%)	
DATUM RL	187.0		184.0				184.0			
DEPTH TO INVERT	2.18	1.95	0.93	0.93 2.43	2.42 2.27	2.26	2.27 2.26	2.41 2.33	2.33 2.25	1.46
H.G.L 20%AEP	191.02	191.15	189.55	189.58	189.66	189.88 189.87	189.66 189.88 189.87	190.05	190.32 190.36	190.37 190.45
INVERT LEVEL	190.59	190.81	188.17 188.17	188.20 188.21	188.25 188.26	188.29	188.25 188.26	188.43 188.50	188.65 188.72	188.74
DESIGN SURFACE	192.77		189.10	190.63	190.53	190.20	190.53	190.83	190.97	190.20
CHAINAGE	0.00	8.83	0.00 10.92	10.92 16.91	27.83 4.90	32.73	0.00 66.00	66.00 57.93	123.93 9.03	132.96



	42A	42B	42C	41B	43A
DESIGN FLOW (l/s)	287	287			288
CAPACITY (l/s)	358	357			461
VELOCITY (m/s)	1.41	1.4			1.72
PIPE DIAMETER (mm)	600Ø HDPE	600Ø HDPE			600Ø HDPE
PIPE GRADE	1:497 (0.20%)	1:500 (0.20%)			1:300 (0.33%)
DATUM RL	185.0			184.0	
DEPTH TO INVERT	1.00 1.00	1.88 1.87	0.80	2.33 2.25	1.94 1.93
H.G.L 20%AEP	190.00	190.06 190.07	190.14 190.20	190.32 190.36	190.43 190.51
INVERT LEVEL	189.00 189.00	189.10 189.11	189.20	188.65 188.72	188.90 188.91
DESIGN SURFACE	190.00	190.98	190.00	190.97	190.84
CHAINAGE	0.00	47.97 47.97	48.57 96.54	0.00	53.80 53.80

NOTE:

DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL

DENOTES FULL DEPTH 20mm CLASS 4 BACKFILL

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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imagine STRATHFIELDSAYE

SCALE H 1:1,000 V 1:100
H 10 0 10 20 30 40 50 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES - PAPER SIZE A3

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IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
DRAINAGE LONG SECTIONS (4 OF 4)

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R28 / 32
REV: A

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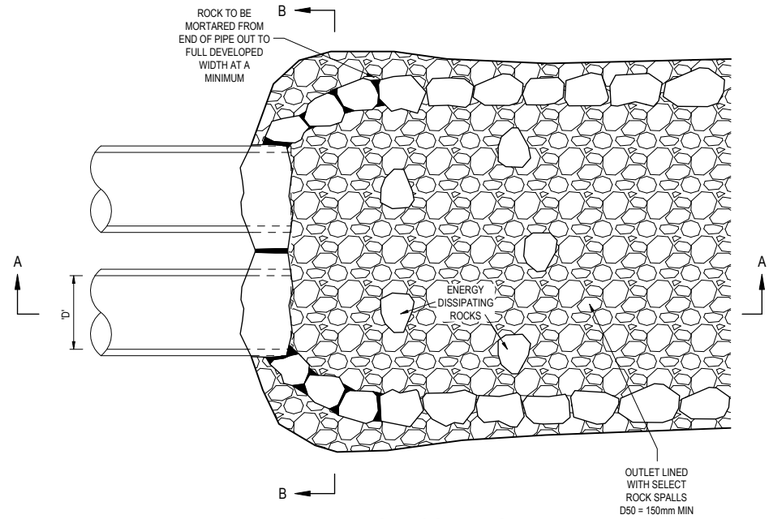
PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOMKIBGO-12DS01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R+D REVA.DWG

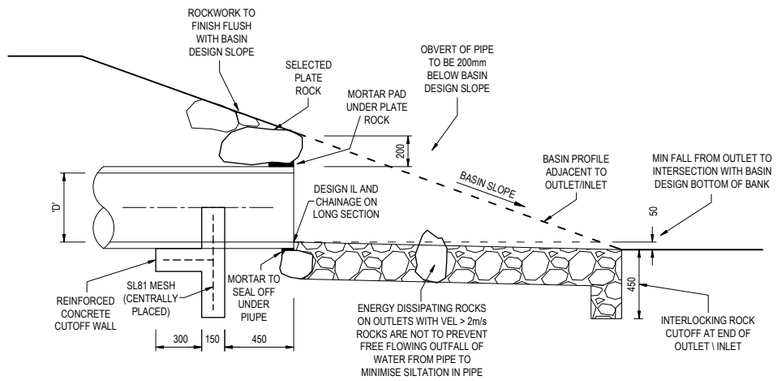
PIT SCHEDULE

PIT NAME	PIT TYPE	EASTING	NORTHING	INTERNAL WD	INTERNAL LEN	INLET DIA	INV LEV	OUTLET DIA	INV LEV	PIT SETOUT RL	DEPTH	REMARKS
01A	WINGWALL	265980.48	5924058.97	0	0	(2x)600	190.00					ROCK WINGWALL REFER TYPICAL THIS SHEET
01B	JP	265980.00	5924055.77	600	1900	600	190.03	(2x)600	190.01	191.40	1.39	IDM JP SD420 SHAPE BASE AS PER CoGB SD 590F (FUT SEP)
						300	190.31					
01C	JP	265978.88	5924047.49	600	900	600	190.10	600	190.08	191.49	1.41	IDM JP SD420 SHAPE BASE AS PER CoGB SD 590F (FUT SEP)
01D	JP	265969.54	5924040.38	600	900	525	190.23	600	190.15	191.76	1.61	IDM JP SD420 SHAPE BASE AS PER CoGB SD 590F (FUT SEP)
						450	190.30					
01E	JP	265965.81	5924011.97	600	900	450	190.66	525	190.59	192.77	2.18	IDM JP SD420 SHAPE BASE CoGB SD 590F (FUT GSEP SD480)
						300	190.81					
01F	JP	265957.03	5923948.07	600	900	450	190.94	450	190.92	194.32	3.40	IDM SD420 SHAPE BASE AS PER CoGB SD 590F
01G	JP	265992.44	5923943.28	600	900	450	191.11	450	191.09	194.30	3.22	IDM SD420 SHAPE BASE AS PER CoGB SD 590F
01H	JP	265987.25	5923904.62	600	900	450	191.28	450	191.26	194.10	2.84	IDM SD420 SHAPE BASE AS PER CoGB SD 590F
01I	JP	266023.70	5923899.69	600	900	450	191.45	450	191.43	193.43	2.00	IDM SD420 SHAPE BASE AS PER CoGB SD 590F
01J	JP	266020.81	5923878.32	600	900	450	191.55	450	191.53	193.73	2.19	IDM SD420 SHAPE BASE AS PER CoGB SD 590F
02A	WINGWALL	266141.07	5923989.08	600	900	(2x)600	189.01					ROCK WINGWALL REFER TYPICAL THIS SHEET
02B	GJP	266139.88	5923985.86	900	2100	600	189.04	(2x)600	189.02	190.47	1.45	IDM SD420 WITH CLASS 'D' GRATED INSERT
02C	GJP	266133.15	5923932.25	900	900	600	190.32	600	190.30	191.59	1.29	IDM SD420 WITH CLASS 'D' GRATED INSERT
02D	GJP	266126.42	5923878.65	900	1200	675	191.11	600	191.09	192.51	1.42	IDM SD420 WITH CLASS 'D' GRATED INSERT
02E	JP	266093.88	5923854.41	1200	900	675	191.92	675	191.90	193.24	1.34	IDM SD420
						375	192.20					
02F	JP	266071.24	5923856.42	900	900	600	192.09	675	192.01	193.32	1.31	IDM JP SD420 HAUNCHED AS PER ISDM SD 410 (FUTURE EKI PIT AS PER COGB SD 590I WITH PIT LOCATED CENTRE)
						600	192.09					
02G	JP	266036.10	5923861.07	1350	900	525	192.31	600	192.23	193.71	1.48	IDM SD420 + SD410 SHAPE BASE AS PER CoGB SD 590F - MULTIPLE OUTLET PIT - FUTURE SEP
						375	192.42	450	191.65			
02H	JP	266028.12	5923867.03	900	900	525	192.37	525	192.35	193.81	1.47	IDM SD420 - FUTURE GJP IN KERB
02I	JP	266019.66	5923868.61	900	900	525	192.42	525	192.40	193.82	1.42	IDM SD420 - FUTURE GJP IN KERB
02J	JP	266010.70	5923864.46	900	900	375	192.61	525	192.46	194.12	1.66	IDM SD420 - FUTURE SEP
						450	192.54					
02K	GJP	265946.82	5923873.16	600	900	375	193.92	375	193.85	195.24	1.39	IDM SD480
02L	GJP	265900.20	5923879.48	600	900	300	195.04	375	195.02	196.34	1.32	IDM SD480
						375	195.04					
02M	GJP	265864.74	5923884.28	600	900	300	196.47	300	196.45	197.79	1.34	IDM SD480
						150	196.60					
02N	GJP	265860.98	5923875.91	600	900	150	196.78	300	196.63	197.92	1.29	IDM SD480
02O	END	265846.12	5923877.92					150	197.47	198.62	1.15	
08A	JP	266004.00	5923856.54	600	900	375	192.68	450	192.61	194.17	1.56	IDM SD420 - FUTURE IDM SD 480
08B	GJP	265945.93	5923864.03	600	900	375	193.76	375	193.68	195.24	1.56	IDM SD480
08C	SEP	265939.49	5923857.05	600	900	300	194.42	375	194.35	195.67	1.32	IDM SD431
						300	194.42					
08D	SEP	265931.07	5923858.19	600	900	300	194.49	300	194.47	195.68	1.21	IDM SD431
						150	194.62					
08E	SEP	265923.96	5923867.53	600	900			300	194.55	195.77	1.22	IDM SD431
09A	GJP	265932.40	5923803.57	600	900	300	195.73	300	195.71	197.27	1.56	IDM SD480
						300	195.76					
10A	END	265926.82	5923828.04					150	195.38			IDM SD420
11A	GJP	265923.68	5923804.75	600	900	150	196.08	300	195.93	197.27	1.34	IDM SD480
11B	END	265919.72	5923775.52					150	197.53			
12A	GJP	265893.69	5923871.48	600	900	450	195.19	375	195.17	196.47	1.30	IDM SD480
						150	195.39					
12B	JP	265888.77	5923835.21	600	900	450	195.93	450	195.91	196.97	1.07	IDM SD425
12C	JP	265873.98	5923837.22	600	900			450	196.46	197.91	1.46	RECONSTRUCT EXISTING SHALLOW JP AS IDM SD425
13A	END	265848.89	5923886.43					150	197.43			
14A	END	265876.84	5923873.76					150	195.94			
40A	WINGWALL	265981.25	5924102.52	600	900	(2x)675	188.17					ROCK WINGWALL REFER TYPICAL THIS SHEET
40B	JP	265975.09	5924093.62	900	2400	750	188.21	(2x)675	188.20	190.63	2.43	IDM SD420
40C	JP	265976.01	5924076.74	900	900	750	188.26	750	188.25	190.53	2.27	IDM SD420
						750	188.26					
40D	GJP	265976.27	5924071.84	1200	2400			750	188.29	190.20	1.91	MODIFIED IDM SD420 GJP WITH MW PIPE GRILL AS PER SD 7251/08/423 REFER DETAIL ON SHEET R16
41A	JP	265910.10	5924073.21	900	900	675	188.50	750	188.43	190.83	2.41	IDM SD420
41B	JP	265852.69	5924080.94	900	1200	600	188.72	675	188.65	190.98	2.33	IDM SD420
						600	188.72					
41C	GJP	265846.18	5924075.12	900	1500			600	188.74	190.20	1.46	MODIFIED IDM SD420 GJP WITH MW PIPE GRILL AS PER SD 7251/08/423 REFER DETAIL ON SHEETS R17 & R18
42A	JP	265848.92	5924074.18	0	0	600	189.00			190.00	1.00	MODIFIED MW SD 7251/12/035 BALANCE PIT REFER DETAIL ON SHEETS R17 & R18
42B	JP	265896.83	5924071.76	600	900	600	189.11	600	189.10	190.98	1.88	IDM SD420
42C	GJP	265945.34	5924069.32	1200	1500			600	189.20	190.00	0.80	MODIFIED IDM SD420 GJP WITH MW PIPE GRILL AS PER SD 7251/08/423 REFER DETAIL ON SHEET R16



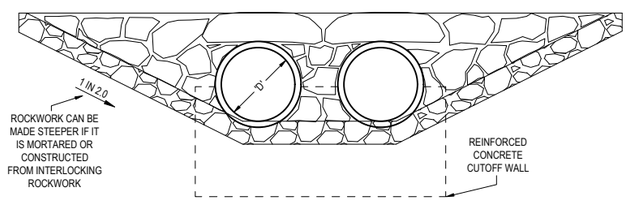
TWIN DRAINAGE ROCK WING WALL

DIMENSIONS IN mm
SCALE 1 : 50



TWIN DRAINAGE ROCK WING WALL SECTION A-A

DIEMENSIONS IN mm
SCALE 1 : 25



TWIN DRAINAGE ROCK WING WALL SECTION B-B

DIMENSIONS IN mm
SCALE 1 : 25

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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imagine STRATHFIELDSAYE

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

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
DRAINAGE PIT SCHEDULE
CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R29 / 32
REV: A

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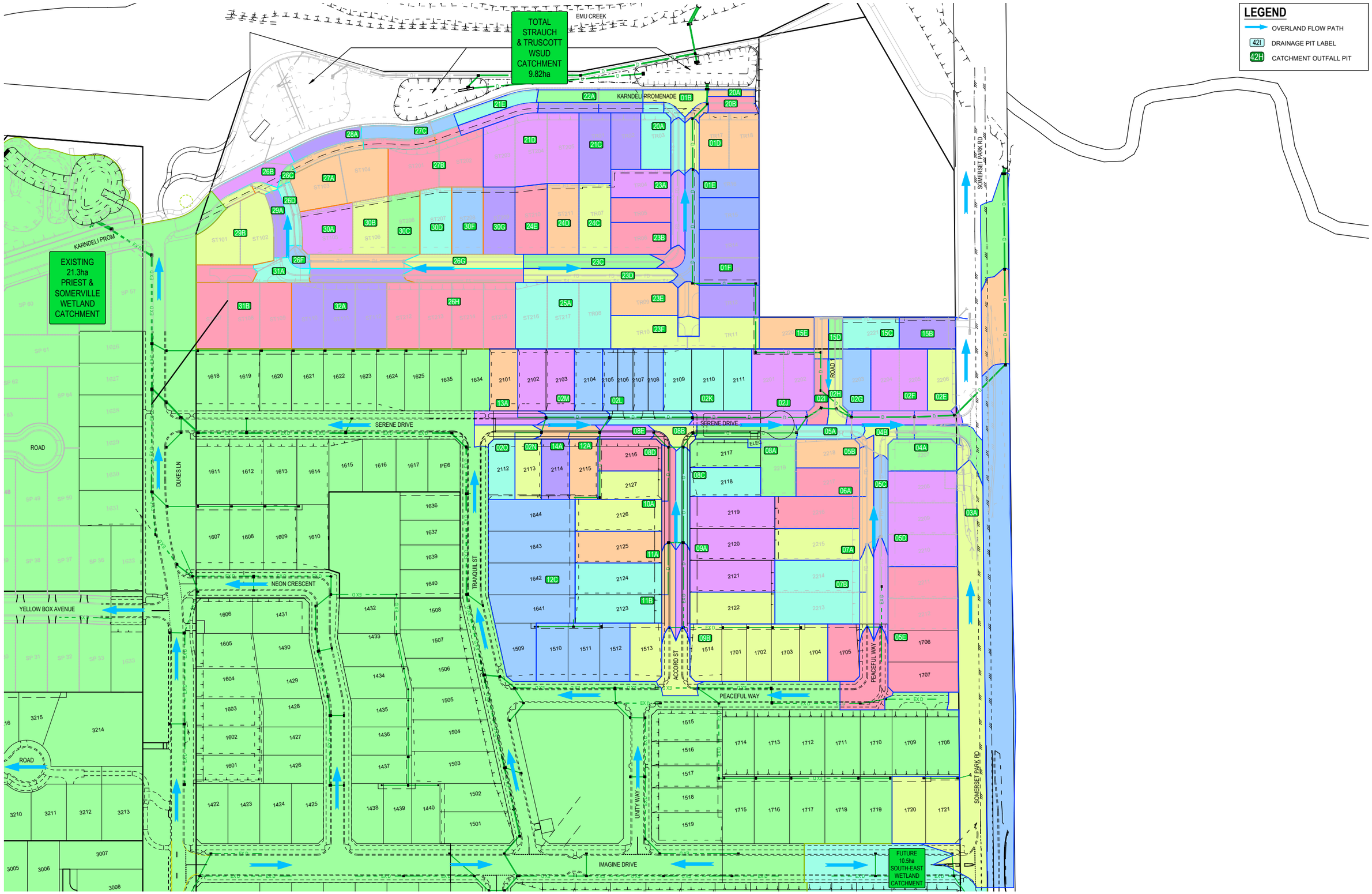
PLOT DATE: 11/12/2025 FILE: C:\12DDATA\TOMMKBGO-12DS\01502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405\ENG\00\CAD\CURRENT\502301 R-D REVA.DWG



REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

MGA94 ZONE 55

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imagine STRATHFIELDSAYE

SCALE 1:2,000
20 0 20 40 60 80 100
LENGTHS ARE IN METRES - PAPER SIZE A3

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COMPASS ASSURANCE ISO 9001 QUALITY

IMAGINE ESTATE STAGE 21
SERENE DRIVE STRATHFIELDSAYE
DEVELOPMENT NE DRAINAGE CATCHMENT PLAN

CITY OF GREATER BENDIGO - AM/459/2020/C, AM/188/2016/B & DS/819/2022
STARTHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 502301 R30 / 32
REV: A

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PLOT DATE: 11/12/2025 FILE: C:\12D\DATA\TOMKBGO-12DS01\502301 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_8405ENG\00\CAD\CURRENT\502301 R+D REVA.DWG

12D MODEL - HYDROLOGICAL DESIGN SHEET
Project: Design
Drainage Model: DRN/STR
Rainfall File: Bendigo180725.12dhydro

Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct
Minor 20.00 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)	Direct Flow Qdg (L/s)	Approach Flow Qa (L/s)
01A	HW OUT	265980.48	5924058.97	191	191													
01B	IDM SEP SD431	265980	5924055.77	191.6	191.6	4P	6	89.93	0.75	0.0334	0.025	0.025	6.3	0.025	0.025	6.3		6.3
01C	IDM SEP SD440	265978.88	5924047.49	191.77	191.77	2P	6	89.93	0.6	0.108	0.0648	0.0706	17.6	0.0648	0.0706	17.6		17.6
						4P	6	89.93	0.75	0.0077	0.0058			0.0058				
01D	IDM SEP SD440	265969.54	5924040.38	191.98	191.98	4P	6	89.93	0.75	0.0229	0.0172	0.0172	4.3	0.0172	0.0172	4.3		4.3
01E	IDM GSEP SD480	265965.81	5924011.97	192.77	192.77	2P	6	89.93	0.6	0.0543	0.0326	0.1095	27.4	0.0326	0.1095	27.4		27.4
						3P	6	89.93	0.55	0.0611	0.0336			0.0336				
						4P	6	89.93	0.75	0.0578	0.0433			0.0433				
01F	IDM JP SD420	265957.03	5923948.07	194.32	194.32	2P	6	89.93	0.6	0.107	0.0642	0.0978	24.4	0.0642	0.0978	24.4		24.4
						3P	6	89.93	0.55	0.0611	0.0336			0.0336				
01G	IDM JP SD420	265992.44	5923943.28	194.57	194.57													0
01H	IDM JP SD420	265987.25	5923904.62	194.86	194.86													0
01I	IDM JP SD420	266023.7	5923899.69	194.31	194.31													0
01J	IDM JP SD420	266020.81	5923878.32	194.1	194.1													0
01K	IDM JP SD420	266036.16	5923861.52	194	194													0
02A	IDM 600x900 SEP SD431	266141.07	5923989.08	190.05	190.05													
02B	IDM GJP SD420	266139.88	5923985.86	190.47	190.47	4P	6	89.93	0.75	0.0764	0.0573	0.0573	14.3	0.0573	0.0573	14.3		14.3
02C	IDM GJP SD420	266133.15	5923932.25	191.59	191.59	4P	6	89.93	0.75	0.0811	0.0608	0.0608	15.2	0.0608	0.0608	15.2		15.2
02D	IDM GJP SD420	266126.42	5923878.64	192.51	192.51	4P	6	89.93	0.75	0.469	0.3517	0.3517	87.9	0.3517	0.3517	87.9		87.9
02E	IDM JP SD420	266093.88	5923854.41	193.95	193.95	2P	6	89.93	0.6	0.0561	0.0337	0.0337	8.4	0.0337	0.0337	8.4		8.4
02F	IDM SEP SD431 + SD410	266071.24	5923856.42	193.8	193.8	2P	6	89.93	0.6	0.112	0.0672	0.1064	26.6	0.0672	0.1064	26.6		26.6
						4P	6	89.93	0.75	0.0523	0.0392			0.0392				
02G	IDM SEP SD440 + SD410	266036.1	5923861.07	194	194	2P	6	89.93	0.6	0.0556	0.0333	0.0333	8.3	0.0333	0.0333	8.3		8.3
02H	IDM GSEP SD481	266028.12	5923867.03	193.81	193.81	4P	6	89.93	0.75	0.0326	0.0244	0.0244	6.1	0.0244	0.0244	6.1		6.1
02I	IDM GSEP SD481	266019.66	5923868.61	193.81	193.81	4P	6	89.93	0.75	0.0335	0.0251	0.0251	6.3	0.0251	0.0251	6.3		6.3
02J	IDM SEP SD440	266010.7	5923864.46	194.12	194.12	3P	6	89.93	0.55	0.1236	0.068	0.1071	26.8	0.068	0.1071	26.8		26.8
						4P	6	89.93	0.75	0.0521	0.0391			0.0391				
02K	IDM GSEP SD480	265946.82	5923873.16	195.24	195.24	3P	6	89.93	0.55	0.175	0.0963	0.1245	31.1	0.0963	0.1245	31.1		31.1
						4P	6	89.93	0.75	0.0376	0.0282			0.0282				
02L	IDM GSEP SD480	265900.2	5923879.48	196.34	196.34	1P	6	89.93	0.65	0.1204	0.0783	0.134	33.5	0.0783	0.134	33.5		33.5
						2P	6	89.93	0.6	0.056	0.0336			0.0336				
						4P	6	89.93	0.75	0.0296	0.0222			0.0222				
02M	IDM GSEP SD480	265864.74	5923884.28	197.79	197.79	2P	6	89.93	0.6	0.112	0.0672	0.0907	22.6	0.0672	0.0907	22.6		22.6
						4P	6	89.93	0.75	0.0313	0.0235			0.0235				
02N	IDM GSEP SD480	265860.98	5923875.91	197.92	197.92	2P	6	89.93	0.6	0.051	0.0306	0.0554	13.8	0.0306	0.0554	13.8		13.8
						4P	6	89.93	0.75	0.033	0.0248			0.0248				
02O	CAP	265846.12	5923877.92	198.62	198.62	2P	6	89.93	0.6	0.0506	0.0303	0.0303	7.6	0.0303	0.0303	7.6		7.6
03A	IDM JP SD420	266096.17	5923836.56	193.8	193.8	3P	7.5	82.98	0.55	0.1456	0.0801	0.3654	84.2	0.0641	0.3493	87.3		87.3
						4P	6	89.93	0.75	0.3803	0.2853			0.2853				
04A	IDM SEP SD431 + SD410	266070.03	5923847.49	193.8	193.8	3P	6	89.93	0.55	0.0691	0.038	0.0754	18.8	0.038	0.0754	18.8		18.8
						4P	6	89.93	0.75	0.0499	0.0374			0.0374				
04B	IDM SEP SD440	266059.81	5923849.13	193.86	193.86	4P	6	89.93	0.75	0.0224	0.0168	0.0168	4.2	0.0168	0.0168	4.2		4.2
05A	IDM SEP SD440	266034.94	5923852.5	193.98	193.98	4P	6	89.93	0.75	0.0299	0.0224	0.0224	5.6	0.0224	0.0224	5.6		5.6
05B	IDM SEP SD440	266042.05	5923843.16	193.97	193.97	2P	6	89.93	0.6	0.058	0.0348	0.074	18.5	0.0348	0.074	18.5		18.5
						4P	6	89.93	0.75	0.0523	0.0392			0.0392				
05C	IDM GSEP SD480	266049.98	5923837.23	194.05	194.05	4P	6	89.93	0.75	0.0395	0.0296	0.0296	7.4	0.0296	0.0296	7.4		7.4
05D	IDM GSEP SD480	266043.84	5923791.9	196.73	196.73	3P	6	89.93	0.55	0.2118	0.1165	0.1466	36.6	0.1165	0.1466	36.6		36.6
						4P	6	89.93	0.75	0.0402	0.0302			0.0302				
END	END	266040.06	5923763.99	198.87	198.87													
05E	IDM GSEP SD480	266036.97	5923741.17	200.63	200.63	2P	6.07	89.6	0.6	0.058	0.0348	0.2558	63.7	0.0344	0.2554	63.8		63.8
						3P	6	89.93	0.55	0.2818	0.155			0.155				
						4P	6	89.93	0.75	0.0879	0.0659			0.0659				
06A	CAP	266038.2	5923815.48	195.04	195.04	2P	6	89.93	0.6	0.0585	0.0351	0.0826	20.6	0.0351	0.0826	20.6		20.6
						3P	6	89.93	0.55	0.0864	0.0475			0.0475				
07A	IDM GSEP SD480	266034.53	5923788.73	197.07	197.07	3P	6	89.93	0.55	0.0864	0.0475	0.0751	18.8	0.0475	0.0751	18.8		18.8
						4P	6	89.93	0.75	0.0368	0.0276			0.0276				
07B	CAP	266030.9	5923761.97	199.12	199.12	3P	6	89.93	0.55	0.1728	0.095	0.095	23.7	0.095	0.095	23.7		23.7
08A	IDM GSEP SD480	266004	5923856.54	194.17	194.17	3P	6	89.93	0.55	0.1234	0.0679	0.1058	26.4	0.0679	0.1058	26.4		26.4
						4P	6	89.93	0.75	0.0506	0.038			0.038				
08B	IDM GSEP SD480	265945.93	5923864.03	195.24	195.24	4P	6	89.93	0.75	0.0233	0.0174	0.0174	4.4	0.0174	0.0174	4.4		4.4
08C	IDM SEP SD440	265939.49	5923857.05	195.67	195.67	3P	6	89.93	0.55	0.066	0.0363	0.0692	17.3	0.0363	0.0692	17.3		17.3
						4P	6	89.93	0.75	0.0438	0.0329			0.0329				
08D	IDM SEP SD440	265931.07	5923858.19	195.68	195.68	2P	6	89.93	0.6	0.0577	0.0346	0.1074	26.8	0.0346	0.1074	26.8		26.8
						3P	6	89.93	0.55	0.0645	0.0355			0.0355				
						4P	6	89.93	0.75	0.0497	0.0373			0.0373				
08E	IDM 600x900 SEP SD431	265923.96	5923867.53	195.77	195.77	4P	6	89.93	0.75	0.0243	0.0182	0.0182	4.5	0.0182	0.0182	4.5		4.5
09A	IDM GSEP SD480	265932.4	5923803.57	197.27	197.27	3P	6	89.93	0.55	0.2592	0.1426	0.1723	43.1	0.1426	0.1723	43.1		43.1
						4P	6	89.93	0.75	0.0397	0.0298			0.0298				
END	END	265929.24	5923780.23	198.37	198.37													
09B	IDM GSEP SD480	265925.95	5923756	199.69	199.69	2P	6.55	87.38	0.6	0.312	0.1872	0.2811	68.2	0.1715	0.2654	66.3		68.2
						3P	6	89.93	0.55	0.0864	0.0475			0.0475				
						4P	6	89.93	0.75	0.0619	0.0464			0.0464				
10A	IDM JP SD420	265926.82	5923828.04	196.55	196.55	3P	6	89.93	0.55	0.0882	0.0485	0.0485	12.1	0.0485	0.0485	12.1		12.1
11A	IDM GSEP SD480	265923.68	5923804.75	197.27	197.27	3P	6	89.93	0.55	0.0882	0.0485	0.0783	19.6	0.0485	0.0783	19.6		19.6
						4P	6	89.93	0.75	0.0397	0.0298			0.0298				
11B	CAP	265919.72	5923775.52	198.65	198.65	3P	6	89.93	0.55	0.1666	0.0916	0.0916	22.9	0.0916	0.0916	22.9		22.9
12A	IDM 600x900 SEP SD431	265893.69	5923871.48	196.47	196.47	2P	6	89.93	0.6	0.0544	0.0326	0.053	13.2	0.0326	0.053	13.2		13.2
						4P	6	89.93	0.75	0.0272	0.0204			0.0204				
12B	IDM 600x900 SEP SD431	265888.77	5923835.21	196.97	196.97													0
12C	IDM JP SD425	265873.98	5923837.21	197.91	197.91	2P	6.79	86.27	0.6	0.1749	0.1049	0.328	78.6	0.0927	0.3158	78.9		78.9
						3P	6	89.93	0.55	0.4056	0.2231			0.2231				
13A	CAP	265848.89	5923886.43	198.57	198.57	2P	6	89.93	0.6	0.056	0.0336	0.0336	8.4	0.0336	0.0336	8.4		8.4
14A	CAP	265876.84	5923873.76	197.09	197.09	2P	6	89.93	0.6	0.0544	0.0326	0.0326	8.2	0.0326	0.0326	8.2		8.2
15A	IDM GSEP SD480	266034.98	5923917.43	193.81	193.81	4P	6	89.93	0.75	0.0189	0.0142	0.0142	3.5	0.0142	0.0142	3.5		3.5

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)	Direct Flow Qdg (L/s)	Approach Flow Qa (L/s)
15B	IDM GSEP SD480	266026.26	5923918.61	193.81	193.81	2P	6	89.93	0.6	0.0562	0.0337	0.0479	12	0.0337	0.0479	12		12
						4P	6	89.93	0.75	0.0189	0.0142			0.0142				
16A	HW OUT auto	266107.11	5923907.56	192	192.15													
16B	IDM GJP SD425	266069.26	5923912.69	193.19	193.19	2P	6	89.93	0.6	0.0576	0.0346	0.0346	8.6	0.0346	0.0346	8.6		8.6
20A	IDM 600x900 SEP SD431	266006.25	5924052.21	191.47	191.47	4P	6	89.93	0.75	0.0102	0.0077	0.0077	1.9	0.0077	0.0077	1.9		1.9
20B	IDM 600x900 SEP SD431	266005.13	5924043.94	191.64	191.64	4P	6	89.93	0.75	0.0256	0.0192	0.0192	4.8	0.0192	0.0192	4.8		4.8
21A	IDM 600x900 SEP SD431	265961.11	5924041.52	191.98	191.98	4P	6	89.93	0.75	0.0237	0.0178	0.0178	4.4	0.0178	0.0178	4.4		4.4
21B	IDM 600x900 SEP SD431	265954	5924050.86	191.89	191.89	2P	6	89.93	0.6	0.054	0.0324	0.0428	10.7	0.0324	0.0428	10.7		10.7
						4P	6	89.93	0.75	0.014	0.0105			0.0105				
21C	IDM 600x900 SEP SD431	265918.04	5924055.58	191.87	191.87	2P	6	89.93	0.6	0.0544	0.0326	0.0983	24.5	0.0326	0.0983	24.5		24.5
						3P	6	89.93	0.55	0.072	0.0396			0.0396				
						4P	6	89.93	0.75	0.0347	0.026			0.026				
21D	IDM 600x900 SEP SD431	265883.61	5924060.24	192.02	192.02	3P	6	89.93	0.55	0.2119	0.1165	0.1369	34.2	0.1165	0.1369	34.2		34.2
						4P	6	89.93	0.75	0.0272	0.0204			0.0204				
21E	IDM 600x900 SEP SD431	265884.75	5924068.67	191.83	191.83	4P	6	89.93	0.75	0.0346	0.0259	0.0259	6.5	0.0259	0.0259	6.5		6.5
22A	IDM 600x900 SEP SD431	265919.18	5924064	191.67	191.67	4P	6	89.93	0.75	0.0427	0.032	0.032	8	0.032	0.032	8		8
23A	IDM 600x900 SEP SD431	265956.99	5924012.16	192.8	192.8	2P	6	89.93	0.6	0.0544	0.0326	0.058	14.5	0.0326	0.058	14.5		14.5
						4P	6	89.93	0.75	0.0338	0.0254			0.0254				
23B	IDM 600x900 SEP SD431	265951.44	5923970.07	193.95	193.95	2P	6	89.93	0.6	0.0476	0.0286	0.0727	18.2	0.0286	0.0727	18.2		18.2
						3P	6	89.93	0.55	0.0607	0.0334			0.0334				
						4P	6	89.93	0.75	0.0143	0.0107			0.0107				
23C	IDM 600x900 SEP SD431	265942.1	5923962.96	194.67	194.67	4P	6	89.93	0.75	0.0611	0.0459	0.0459	11.5	0.0459	0.0459	11.5		11.5
23D	IDM 600x900 SEP SD431	265948.78	5923953.48	194.39	194.39	4P	6	89.93	0.75	0.0683	0.0512	0.0512	12.8	0.0512	0.0512	12.8		12.8
23E	IDM 600x900 SEP SD431	265954.9	5923949.12	194.26	194.26	3P	6	89.93	0.55	0.0702	0.0386	0.0558	13.9	0.0386	0.0558	13.9		13.9
						4P	6	89.93	0.75	0.0229	0.0172			0.0172				
23F	IDM 600x900 SEP SD431	265952.37	5923930.44	194.39	194.39	3P	6	89.93	0.55	0.1416	0.0779	0.0876	21.9	0.0779	0.0876	21.9		21.9
						4P	6	89.93	0.75	0.0129	0.0097			0.0097				
24A	IDM 600x900 SEP SD431	265920.72	5924017.07	193.77	193.77													0
24B	IDM 600x900 SEP SD431	265919.64	5924009.14	194.06	194.06													0
24C	IDM 600x900 SEP SD431	265917.86	5924009.39	194.49	194.49	3P	6	89.93	0.55	0.072	0.0396	0.0396	9.9	0.0396	0.0396	9.9		9.9
24D	IDM 600x900 SEP SD431	265900.02	5924011.8	195.21	195.21	3P	6	89.93	0.55	0.072	0.0396	0.0396	9.9	0.0396	0.0396	9.9		9.9
24E	IDM 600x900 SEP SD431	265882.24	5924014.21	195.78	195.78	3P	6	89.93	0.55	0.0709	0.039	0.039	9.7	0.039	0.039	9.7		9.7
25A	IDM 600x900 SEP SD431	265876.1	5923963.32	197.2	197.2	3P	6	89.93	0.55	0.2025	0.1114	0.1114	27.8	0.1114	0.1114	27.8		27.8
26A	IDM 600x900 SEP SD431	265732.27	5924061.05	191	191													
26B	IDM 600x900 SEP SD431	265726.45	5924048.52	192.35	192.35	4P	6	89.93	0.75	0.0422	0.0317	0.0317	7.9	0.0317	0.0317	7.9		7.9
26C	IDM 600x900 SEP SD431	265740.9	5924044.63	192.55	192.55	4P	6	89.93	0.75	0.0065	0.0049	0.0049	1.2	0.0049	0.0049	1.2		1.2
26D	IDM 600x900 SEP SD431	265735.63	5924034.3	192.53	192.53	4P	6	89.93	0.75	0.0284	0.0213	0.0213	5.3	0.0213	0.0213	5.3		5.3
26E	IDM 600x900 SEP SD431	265738.55	5924016.87	192.61	192.61													0
26F	IDM 600x900 SEP SD431	265737.25	5923999.08	192.7	192.7	4P	6	89.93	0.75	0.0127	0.0095	0.0095	2.4	0.0095	0.0095	2.4		2.4
26G	IDM 600x900 SEP SD431	265744.36	5923989.75	192.8	192.8	4P	6	89.93	0.75	0.0454	0.0341	0.0341	8.5	0.0341	0.0341	8.5		8.5
26H	IDM 600x900 SEP SD431	265796.96	5923982.77	196.12	196.12	4P	6	89.93	0.75	0.0515	0.0386	0.0386	9.7	0.0386	0.0386	9.7		9.7
26I	IDM 600x900 SEP SD431	265795.77	5923974.05	196.16	196.16	3P	6	89.93	0.55	0.2725	0.1499	0.1894	47.3	0.1499	0.1894	47.3		47.3
						4P	6	89.93	0.75	0.0526	0.0395			0.0395				
TP	TP	265750.94	5924048.05	192.53	192.53													
27A	IDM 600x900 SEP SD431	265782.62	5924052.99	192.38	192.38	3P	6	89.93	0.55	0.1439	0.0792	0.0976	24.4	0.0792	0.0976	24.4		24.4
						4P	6	89.93	0.75	0.0246	0.0184			0.0184				
TP	TP	265803.35	5924050.47	192.28	192.28													
27B	IDM 600x900 SEP SD431	265823.51	5924050.33	192.21	192.21	3P	6	89.93	0.55	0.1441	0.0793	0.1037	25.9	0.0793	0.1037	25.9		25.9
						4P	6	89.93	0.75	0.0326	0.0244			0.0244				
27C	IDM 600x900 SEP SD431	265821.78	5924058.65	191.97	191.97	4P	6	89.93	0.75	0.0391	0.0293	0.0293	7.3	0.0293	0.0293	7.3		7.3
28A	IDM 600x900 SEP SD431	265782.71	5924061.49	192.19	192.19	4P	6	89.93	0.75	0.0299	0.0224	0.0224	5.6	0.0224	0.0224	5.6		5.6
29A	IDM 600x900 SEP SD431	265727.74	5924031.01	192.54	192.54	4P	6	89.93	0.75	0.0305	0.0229	0.0229	5.7	0.0229	0.0229	5.7		5.7
29B	IDM 600x900 SEP SD431	265717.13	5924036.51	192.56	192.56	3P	6	89.93	0.55	0.1362	0.0749	0.0883	22.1	0.0749	0.0883	22.1		22.1
						4P	6	89.93	0.75	0.0179	0.0134			0.0134				
30A	IDM 600x900 SEP SD431	265743.1	5924017.06	192.82	192.82	3P	6	89.93	0.55	0.0769	0.0423	0.0423	10.6	0.0423	0.0423	10.6		10.6
30B	IDM 600x900 SEP SD431	265773.34	5924018.31	193.5	193.5	3P	6	89.93	0.55	0.0622	0.0342	0.0342	8.5	0.0342	0.0342	8.5		8.5
30C	IDM 600x900 SEP SD431	265793.63	5924019.15	194.74	194.74	3P	6	89.93	0.55	0.0621	0.0341	0.0341	8.5	0.0341	0.0341	8.5		8.5
30D	IDM 600x900 SEP SD431	265811.9	5924019.9	195.33	195.33	3P	6	89.93	0.55	0.0674	0.037	0.037	9.3	0.037	0.037	9.3		9.3
30E	IDM 600x900 SEP SD431	265822.17	5924020.33	195.56	195.56													0
30F	IDM 600x900 SEP SD431	265829.99	5924019.27	195.73	195.73	3P	6	89.93	0.55	0.0678	0.0373	0.0373	9.3	0.0373	0.0373	9.3		9.3
30G	IDM 600x900 SEP SD431	265847.65	5924016.88	195.81	195.81	3P	6	89.93	0.55	0.0685	0.0377	0.0377	9.4	0.0377	0.0377	9.4		9.4
31A	IDM 600x900 SEP SD431	265727.86	5923993.12	192.72	192.72	4P	6	89.93	0.75	0.0345	0.0259	0.0259	6.5	0.0259	0.0259	6.5		6.5
31B	IDM 600x900 SEP SD431	265713.19	5923987.66	193.05	193.05	3P	6	89.93	0.55	0.2025	0.1114	0.1363	34	0.1114	0.1363	34		34
						4P	6	89.93	0.75	0.0332	0.0249			0.0249				
32A	IDM 600x900 SEP SD431	265743.18	5923981.03	192.84	192.84	3P	6	89.93	0.55	0.2024	0.1113	0.1445	36.1	0.1113	0.1445	36.1		36.1
						4P	6	89.93	0.75	0.0443	0.0332			0.0332				
40A	IDM 600x900 SEP SD431	265982.68	5924104.57	189.1	189.1													
40B	IDM JP SD420	265975.09	5924093.62	190.63	190.63													0
40C	IDM JP SD420	265976	5924076.74	190.53	190.53													0
40D	IDM GJP SD420	265976.27	5924071.84	190.2	190.2												232	232
41A	IDM JP SD420	265910.1	5924073.21	190.83	190.83													0
41B	IDM JP SD420	265852.69	5924080.94	190.97	190.97													0
41C	IDM GJP SD420	265846.18	5924075.12	190.2	190.2												287	287
42A	HW OUT	265848.92	5924074.18	190	190													
42B	IDM JP SD420	265896.83	5924071.76	190.98	190.98													
42C	IDM GJP SD420	265945.34	5924069.32	190	190												287	287
43A	IDM GJP SD420	265799.38	5924088.22	190.84	190.84													0
43B	IDM JP SD420	265779.95	5924096.77	191.05	191.05													0
43C	IDM GJP SD420	265771.1	5924091.62	190.5	190.5												288.4	288.4
44A	IDM 600x900 SEP SD431	265756	5924107.28	191.36	191.36													0
44B	IDM 600x900 SEP SD431	265740.19	5924090.66	190.5	190.5													0
45A	IDM 600x900 SEP SD431	265746.15	5924091.61	190.3	190.3													
45B	IDM 600x900 SEP SD431	265740.35	5924090.08	190.5	190.5												86	86

REV	REVISION	DES	DWG	CHK	AUTH	DATE
A	AS SUBMITTED TO CLIENT	NjB	NjB	JM	HB	11/12/25

RPE: NATHAN BAWDEN - 0015036

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COMPASS ASSURANCE ISO 9001 QUALITY

**I

12D MODEL - HYDRAULIC DESIGN SHEET Project: Design Drainage Model: DRNSTR Rainfall File: Bendigo180725.12dhydro Rainfall Method: IFD Table Freeboard Limit: 0.15 m Minor 20.00 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)	Catchment Flow Qc (L/s)	Direct Node Flow Qdg (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 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)	Manning n Roughness (-)	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)
01B to 01A	RCP CL2 RRJ	3.24	(2x)600	0.565	0.4	250	7.64	82.31	1.3015	297.6	6.95	85.55	1.2797	304.1	304.1	215	519.1	777	0.67	0.92	1.47	1.62	1.37	191.6	190.01	190	191	0.9	0.18	0				0.04			0.013	0.01	190.41	190.41	190.4	190.4	0.19	514.4	1.19
01C to 01B	RCP CL2 FJ	8.35	600	0.283	0.5	200	7.57	82.64	1.2496	286.8	6.93	85.61	1.2317	292.9	292.9	215	507.9	434.4	1.17	1.8	1.8	2.15	1.54	191.77	190.07	190.03	191.6	0.9	0.78	-0.9	0.02	0.88		0.16	0.14		0.013	0.05	190.74	190.6	190.5	190.41	1.2	83.7	1.02
01D to 01C	HDPE	11.91	600	0.283	0.5	200	7.47	83.1	1.179	272.1	6.85	86	1.1622	277.6	277.6	215	492.6	564.7	0.87	1.74	2.25	2.12	2	191.98	190.15	190.09	191.77	0.9	1.05	45	0.02	0.79		0.15	0.12		0.01	0.05	190.91	190.79	190.74	190.74	0.38	262.8	1.07
01E to 01D	HDPE	28.65	525	0.216	1.26	79.7	7.24	84.2	0.8081	189	6.69	86.74	0.7951	191.6	191.6	215	406.6	626.7	0.65	1.88	3.08	2.14	2.89	192.77	190.59	190.23	191.98	0.9	1.2	-45.2	0.075	0.76		0.18	0.14		0.01	0.16	191.15	191.02	190.91	190.91	0.37	267.5	1.61
01F to 01E	HDPE	64.5	450	0.159	0.4	250	6	89.93	0.0978	24.4	6	89.93	0.0978	24.4	24.4	215	239.4	234.5	1.02	1.51	1.68	1.83	1.47	194.32	190.92	190.66	192.77	0.9	1.64	0.4	0.075	1.3		0.12	0.15		0.01	0.27	191.57	191.42	191.15	191.15	0.42	239.8	2.75
01G to 01F	HDPE	35.73	450	0.159	0.4	250										215	215	234.5	0.92	1.35	1.67	1.74	1.47	194.57	191.08	190.94	194.32	0.9	2.92	-90.1	0.02	1.3		0.09	0.12		0.01	0.12	191.82	191.69	191.57	191.57	0.34	297.4	2.76
01H to 01G	HDPE	39	450	0.159	0.4	250										215	215	234.5	0.92	1.35	1.67	1.74	1.47	194.86	191.26	191.1	194.57	0.9	3	89.9	0.02	1.3		0.09	0.12		0.01	0.13	192.07	191.95	191.82	191.82	0.34	297.4	2.8
01Ia 01H	HDPE	36.78	450	0.159	0.4	250										215	215	234.5	0.92	1.35	1.67	1.74	1.47	194.31	191.43	191.28	194.86	0.9	2.42	-89.9	0.02	1.3		0.09	0.12		0.01	0.12	192.31	192.19	192.07	192.07	0.34	297.4	1.99
01J to 01I	HDPE	21.56	450	0.159	0.4	250										215	215	234.5	0.92	1.35	1.67	1.74	1.47	194.1	191.53	191.45	194.31	0.9	2.1	90	0.02	0.89	0.9	0.09	0.08	0.08	0.01	0.07	192.47	192.38	192.31	192.31	0.34	297.4	1.63
01Ka to 01J	RCP CL2 FJ	22.94	450	0.159	0.4	250										215	215	180.4	1.19	1.35	1.35	1.74	1.13	194	191.65	191.55	194.1	0.9	1.76	-50.2	0.02	2		0.09	0.19		0.013	0.13	192.78	192.6	192.47	192.47	0.57	176	1.21
02D to 02A	RCP CL2 FJ	3.45	(2x)600	0.565	0.4	249.9	10.2	70.86	3.9729	782	8.89	76.54	3.86	820.7	820.7	-215	605.7	777.1	0.78	1.07	1.52	1.72	1.37	190.47	189.02	189.01	190.05	0.3	0.07	0				0.06			0.013	0.01	189.61	189.61	189.6	189.6	0.21	478.2	0.86
02C to 02B	HDPE	54.03	600	0.283	2.33	42.9	9.75	72.55	3.9155	789.1	8.44	78.6	3.8037	830.5	830.5	-215	615.5	1219.5	0.5	2.18	4.32	2.41	4.31	191.59	190.3	189.04	190.47	0.9	0.65	-15	0.02	0.32		0.24	0.08		0.01	1.24	190.88	190.81	189.81	189.61	2.22	45	0.71
02D to 02C	HDPE	54.03	600	0.283	1.43	89.9	9.3	74.64	3.8547	790.2	7.99	80.69	3.7429	838.9	838.9	-215	623.9	954.8	0.65	2.21	3.6	2.43	3.38	192.51	191.09	190.32	191.59	0.9	0.61	0	0.02	1.23		0.25	0.31		0.01	0.76	191.91	191.6	190.88	190.88	1.33	75.1	0.6
02E to 02D	RCP CL2 FJ	40.8	675	0.358	1.94	51.7	8.96	76.21	3.503	741.6	7.83	81.45	3.4267	775.3	775.3	-215	560.3	1170.1	0.48	1.57	3.23	2.07	3.27	195	191.9	191.11	192.51	0.4	0.57	45.3	0.02	0.82		0.13	0.1		0.013	0.56	192.48	192.38	191.91	191.91	1.15	87	2.52
02F to 02E	RCP CL2 RRJ	22.73	675	0.358	0.4	250	8.77	77.09	3.104	664.7	7.64	82.32	3.0277	692.4	692.4	-215	477.4	531.9	0.9	1.33	1.68	1.94	1.49	195	192.01	191.92	195	0.5	1.06	42.6	0.02	0.48		0.09	0.04		0.013	0.08	192.59	192.55	192.48	192.48	0.28	353.1	2.41
02G to 02F	HDPE	35.45	600	0.283	0.4	250	8.48	78.46	2.9053	633.2	7.42	83.35	2.841	657.8	657.8	-215	442.8	505	0.88	1.57	2.01	2.01	1.79	195	192.23	192.09	195	0.9	1.06	2.5	0.075	0.83		0.13	0.1		0.01	0.13	192.77	192.67	192.59	192.59	0.22	458.9	2.23
02H to 02G	HDPE	10.13	525	0.216	0.4	250	8.39	78.85	2.0907	457.9	7.58	82.61	2.0581	472.3	472.3		472.3	353.7	1.34	2.18	2.18	2.36	1.63	195	192.35	192.31	195	0.9	0.98	28.8	0.075	0.42		0.24	0.1		0.01	0.06	192.97	192.87	192.77	192.77	0.96	103.7	2.03
02Ia to 02H	RCP CL2 FJ	8.65	525	0.216	0.39	257	8.32	79.19	2.0042	440.9	7.51	82.94	1.9716	454.2	454.2		454.2	268.4	1.69	2.1	2.1	2.3	1.24	195	192.4	192.37	195	0.9	0.87	-25.3	0.02	0.61		0.22	0.14		0.013	0.1	193.2	193.07	192.97	192.97	1.11	89.7	1.8
02J to 02I	HDPE	10.05	525	0.216	0.41	245.5	8.24	79.57	1.9792	437.5	7.43	83.33	1.9466	450.6	450.6		450.6	357	1.26	2.08	2.08	2.29	1.65	195	192.46	192.42	195	0.9	0.91	-35.6	0.02	0.62		0.22	0.14		0.01	0.07	193.4	193.27	193.2	193.2	0.65	154.1	1.6
02Ka to 02J	HDPE	64.48	375	0.11	1.92	52.1	7.7	82.06	0.8821	201.1	6.91	85.72	0.8699	207.1	207.1		207.1	315.9	0.66	1.88	3.05	2.02	2.86	195.24	193.85	192.61	195	0.9	0.89	32.3	0.15	0.87		0.18	0.16		0.01	0.8	194.33	194.18	193.4	193.4	1.2	83.4	0.91
02L to 02K	HDPE	47.04	375	0.11	2.34	42.7	7.31	83.88	0.7577	176.5	6.52	87.54	0.7455	181.3	181.3		181.3	349	0.52	1.64	3.19	1.85	3.16	196.34	195.02	193.92	195.24	0.9	0.91	0	0.075	1.29		0.14	0.18		0.01	1.04	195.51	195.34	194.33	194.33	2.13	46.9	0.83
02Mb 02L	HDPE	35.78	300	0.071	3.93	25.4	6.2	88.99	0.2099	51.9	6.08	89.57	0.209	52	52		52	249.4	0.21	0.74	2.79	1.2	3.53	197.79	196.45	195.04	196.34	0.9	0.82	0	0.02	2.04	2.16	0.03	0.06	0.06	0.01	1.16	196.69	196.63	195.51	195.51	3.12	32.1	1.1
02Nb 02M	RCP CL2 FJ	9.2	300	0.071	1.72	58	6.12	89.35	0.0857	21.3	6	89.93	0.0851	21.2	21.3		21.3	127.1	0.17	0.3	1.33	0.9	1.8	197.92	196.63	196.47	197.79	0.6	0.83	-72.4	0.02	4.23	4.34	0	0.02	0.02	0.013	0.09	196.76	196.74	196.69	196.69	0.61	162.9	1.16
02Ob 02N	PVC	15	150	0.018	4.61	21.7	6	89.93	0.0303	7.6	6	89.93	0.0303	7.6	7.6		7.6	47.2	0.16	0.43	1.96	0.79	2.67	198.62	197.47	196.78	197.92	0.6	1	72.4	0.15	2		0.01	0.02		0.009	0.57	197.57	197.55	196.82	196.76	4.87	20.5	1.05
03Ab 02E	RCP CL2 FJ	18.01	375	0.11	3.51	28.5	7.5	82.98	0.3654	84.2	6	89.93	0.3493	87.3	87.3		87.3	328.6	0.27	0.79	2.51	1.32	2.98	195	192.83	192.2	195	0.9	0.57	-60.3	0.3	8.5		0.03	0.27		0.013	0.61	193.32	193.05	192.48	192.48	3.16	31.6	1.68
04Ab 02E	RCP CL2 RRJ	9.01	600	0.283	0.5	200	6.09	89.53	0.0922	22.9	6	89.93	0.092	23	23		23	434.3	0.05	0.08	0.81	0.8	1.54	195	192.13	192.09	195	0.5	0.87	-87.4	0.075	7	7.25	0	0	0	0.013	0	192.59	192.59	192.59	192.59	0	178989	2.41
04Bb 04A	HDPE	10.35	300	0.071	0.5	200	6	89.93	0.0168	4.2	6	89.93	0.0168	4.2	4.2		4.2	88.9	0.05	0.06	0.64	0.57	1.26	195	192.49	192.43	195	0.5	1.04	91.5	0.3	7		0.01	0	192.59	192.59	192.59	192.59	0	-28930.8	2.41
05Ab 02G	RCP CL2 RRJ	8.65	375	0.11	0.4	250	7.06	85.02	0.7813	184.5	6.99	85.34	0.7809	185.1	185.1		185.1	110.9	1.67	1.68	1.68	1.87	1	195	192.45	192.41	195	0.9	1	-88.8	0.185	0.86		0.14	0.12		0.013	0.09	192.99	192.87	192.77	192.77	1.16	86.5	2.01
05Bb 05A	HDPE	11.91	375	0.11	0.4	250	6.96	85.48	0.7588	180.2	6.89	85.8	0.7584	180.8	180.8		180.8	144.2	1.25	1.64	1.64	1.85	1.31	195	192.52	192.47	195	0.9	1.07	-45	0.02	0.7		0.14	0.1		0.01	0.07	193.16	193.07	192.99	192.99	0.63	159.1	1.84
05Cb 05B	RCP CL2 RRJ	9.98	375	0.11	0.5	200	6.88	85.86	0.6022	143.6	6.81	86.19	0.6018	144.1	144.1		144.1	124	1.16	1.3	1.3	1.63	1.12	195	192.59	192.54	195	0.9	0.92	-14.1	0.02	0.78	1.05	0.09	0.07	0.09	0.013	0.07	193.32	193.23	193.16	193.16	0.67	148.2	1.68
05Db 05C	HDPE	45.74	300	0.071	5.66	17.7	6.5	87.63	0.5726	139.4	6.43	87.95	0.5722	139.8	139.8		139.8	299.3	0.47	1.98	4.16	2.05	4.23	196.73	195.25	192.66	195	0.9	0.73	59.1	0.075	1.29		0.2	0.26		0.01	2.25	195.79	195.53	193.3	193.32	4.88	20.5	0.94
END to 05D	HDPE	28.16	300	0.071	6.65	15	6.26	88.71	0.2558	63	6.19	89.04	0.2554	63.2	63.2		63.2	324.2	0.19	0.89	3.55	1.29	4.59	198.87	197.14	195.27	196.73	0.9	1.17	0	0.02	2		0.04	0.08		0.01	1.6	197.42	197.34	195.79	195.79	5.51	18.1	1.45
05E to END	HDPE	23.03	300	0.071	9.7	10.3	6.07	89.6	0.2558	63.7	6	89.93	0.2554	63.8	63.8		63.8	391.7	0.16	0.9	4.08	1.3	5.54	200.63	199.4	197.16	198.87	0.9	0.87	0	0.02	5.72		0.04	0.24		0.01	2.21	199.63	199.6	197.42	197.42	9.44	10.6	0.79
06Ab 05B	PVC	27.95	150	0.018	2.97	33.6	6	89.93	0.0826	20.6	6	89.93	0.0826	20.6	20.6		20.6	38	0.54	1.17	2.19	1.26	2.15	195.04	193.59	192.76	195	0.9	0.97	45.2	0.245	2		0.07	0.14		0.009	0.57	193.86	193.72	193.16	193.16	2	50	1.17
07Ab 05D	RCP CL2 FJ	9.9	300	0.071	7.48	13.4	6.23	88.89	0.1702	42	6	89.93	0.1666	41.6	42		42	264.7	0.16	0.59	2.74	1.11	3.74	197.07	196.01	195.27	196.73	0.6	0.63	61.8	0.02	1.69	1.79	0.02	0.03	0.03	0.013	0.43	196.2	196.17	195.79	195.79	3.88	25.8	0.86
07Bb 07A	PVC	27	150	0.018	8.17	12.2	6	89.93	0.095	23.7	6	89.93	0.095	23.7	23.7		23.7	62.9	0.38	1.34	3.31	1.4	3.56	199.12	198.37	196.16	197.07	0.6	0.6	-61.8	0.15	2		0.09	0.18		0.009	1.82	198.69	198.51	196.23	196.2	8.44	11.8	0.43
08Ab 02J	HDPE	10.5	450	0.159	0.66	150.4	7.97	80.81	0.9899	222.2	7.34	83.73	0.9706	225.8	225.8		225.8	302.4	0.75	1.42	2.08	1.78	1.9	195	192.6	192.54	195	0.9	0.96	-22.9	0.075	0.92	1.04	0.1	0.09	0.11	0.01	0.04	193.55	193.44	193.4	193.4	0.37	269.8	1.45
08Bb 08A	HDPE	58.58	375	0.11	1.71	58.4	7.48	83.07	0.8841	204	6.85	85.99	0.8648	206.6	206.6		206.6	298.4	0.69	1.87	2.92	2.01	2.7	195.24	193.68	192.68	195	0.9	0.99	54.9	0.075	1.13	1.18	0.18	0.2	0.21	0.01	0.5	194.22	194.01	193.54	193.55	0.81	123.4	1.02
08Cb 08B	HDPE	9.67	375	0.11	6.11	16.4	7.4	83.45	0.8686	200.9	6.77	86.37	0.8473	203.3	203.3		203.3	563.8	0.36	1.84	4.69	1.99	5.11	195.67	194.35	193.76	195.24	0.9	0.9	-54.9	0.075	0.96		0.17	0.17		0.01	0.49	194.84	194.68	194.21	194.22	4.78	20.9	0.83
08Db 08C	RCP CL2 FJ	8.5	300	0.071	0.5	200	6.25	88.75	0.1741	42.9	6.1	89.47	0.1728	43	43		43	68.4	0.63	0.61	1.02	1.12	0.97	195.68	194.47	194.42	195.67	0.9	0.75	55.1	0.075	3.84	4.14	0.02	0.07	0.08	0.013	0.02	194.94	194.86	194.84	194.84	0.2	507.3	0.74
08Eb 08B	HDPE	11.91	300	0.071	0.5	200	6	89.93	0.0182	4.5	6	89.93	0.0182	4.5	4.5		4.5	88.9	0.05	0.06	0.66	0.58	1.26	195.77	194.55	194.49	195.68	0.9	0.91	45	0.02	8.7		0	0		0.01	0	194.93	194.93	194.93	194.94	0	704826.5	0.83
09Ab 08C	HDPE	53.95	300	0.071	2.38	41.9	6.95	85.53	0.6234	148.1	6.4	88.08	0.6077	148.7	148.7		148.7	194.2	0.77	2.1	3.03	2.16	2.75	197.27	196.21	194.42	195.67	0.9	0.95	-35	0.075	1.37		0.23	0.31		0.01	1.16	196.3	195.99	194.84	194.84	2.13	46.9	0.97
END to 09A	HDPE	23.55	300	0.071	5.35	18.7	6.75	86.44	0.2811	67.5	6.2	88.98	0.2654	65.6	67.5		67.5	290.9	0.23	0.95	3.35	1.33	4.11	198.37	196.99	195.73	197.27	0.9	1.05	0.2	0.02	2		0.05	0.09		0.01	0.94	197.29	197.19	196.3	196.3	3.79	26.4	1.08
09Bb END	HDPE	24.45	300	0.071	5.35	18.7	6.55	87.38	0.2811	68.2	6	89.93	0.2654	66.3	68.2		68.2	290.9	0.23	0.97	3.36	1.34	4.11	199.69	198.3	196.99	198.37	0.9	0.98	0	0	5.42		0.05	0.26		0.01	1.26	198.76	198.5	197.29	197.29	4.97	20.1	0.93
10Ab 08D	PVC	30.45	150	0.018	2.52	39.7	6	89.93	0.0485	12.1	6	89.93	0.0485	12.1	12.1		12.1	34.9	0.35	0.69	1.8	0.95	1.98	196.55	195.38	194.62	195.68	0.9	0.89	-89.7	0.15	5.4		0.02	0.13		0.009	0.58	195.62	195.49	194.93	194.94	1.83	54.8	0.93
11Ab 09A	RCP CL2 FJ	8.8	300	0.071	1.93	51.8	6.25	88.79	0.1699	41.9	6	89.93	0.1662	41.5	41.9		41.9	134.5	0.31	0.59	1.68	1.11	1.9	197.27	195.93	195.76	197.27	0.6	0.91	90.2	0.05	2.28	3	0.02	0.04	0.05	0.013	0.02	196.37	196.32	196.3	196.3	0.19	532.9	0.9
11Bb 11A	PVC	29.5	150	0.018	4.9	20.4	6	89.93	0.0916	22.9	6	89.93	0.0916	22.9	22.9		22.9	48.7	0.47	1.3	2.71	1.36	2.76	198.65	197.53	196.08	197.27	0.6	0.97	-90	0.15	2		0.09	0.17		0.009	1.31	197.83	197.66	196.36	196.37	4.42	22.6	0.82
12Ab 02L	RCP CL2 RRJ	10.41	375	0.11	1.19	84.2	7.22	84.28	0.4137	96.8	6.43	87.94	0.4015	98.1	98.1		98.1	191.2	0.51	0.89	1.74	1.38	1.73	196.47	195.17	195.04	196.34	0.9	0.75	-56.7	0.02	1.09		0.04	0.04		0.013	0.03	195.59	195.55	195.51	195.51	0.31	319.9	0.88
12Bb 12A	HDPE	36.6	450	0.159	1.96	51	6.91	85.69	0.328	78.1	6.12	89.35	0.3158	78.4	78.4		78.4	519.3	0.15	0.49	2.35	1.2	3.27	196.97	195.91	195.19	196.47	0.9	0.59	-33.3	0.02	1.5		0.01	0.02		0.01	0.57	196.12	196.1	195.59	195.59	1.39	71.7	0.86
12Cb to 12B	HDPE	14.92	450	0.159	3.54	28.2	6.79	86.27	0.328	78.6	6	89.93	0.3158	78.9	78.9		78.9	698.1	0.11	0.5	2.91	1.2	4.39	197.91	196.46	195.93	196.97	0.9	0.56	90	0.02	1.5		0.01	0.02		0.01	0.53	196.67	196.65	196.12	196.12	3.56	28.1	1.24
13Ab 02M	PVC	16	150	0.018	5.16	19.4	6	89.93	0.0336	8.4	6	89.93	0.0336	8.4	8.4		8.4	50	0.17	0.47	2.1	0.82	2.83	198.57	197.43	196.6	197.79	0.6	0.99	0	0.15	2		0.01	0.02		0.009	0.83	197.54	197.51	196.69	196.69	5.17	19.3	1.03
14Ab 12A	PVC	17	150	0.018	3.23	31	6	89.93	0.0326	8.2	6	89.93	0.0326	8.2	8.2		8.2	39.5	0.21	0.46	1.76	0.81	2.24	197.09	195.94	195.39	197.27	0.9	0.91	56.7	0.225	2		0.01	0.02		0.009	0.46	196.05	196.02	195.59	195.59	2.56	39	1.05
15Ab 02H	HDPE	50.89	375	0.11	0.5	200	6.07	89.59	0.062	15.4	6	89.93	0.0614	15.3	15.4		15.4	161.2	0.1	0.14	0.92	0.78	1.46	195	192.75	192.5	195	0.9	0.67	61.6	0.15	2.2	2.66	0	0	0	0.01	0	192.97	192.97	192.97	192.97	0	82754.9	2.03
15Bb to 15A	RCP CL4 RRJ	8.8	375	0.11	0.5	200	6	89.93	0.0479	12	6	89.93	0.0479	12	12		12	124	0.1	0.11	0.71	0.73	1.12	195	192.81	192.77	195	0.5	0.45	-90.2	0.02	9.7		0.01	0.1		0.013	0	192.98	192.97	192.97	192.97	0	396197.7	2.02
16Bb to 16A	PVC	38.2	150	0.018	1.15	86.8	6	89.93	0.0346	8.6	6	89.93	0.0346	8.6	8.6		8.6	23.6	0.37	0.49	1.23	0.83	1.34	193.19	192.44	192	192.24	0.9	0.28	0	6.78		0.01	0.08		0.009	0.42	192.61	192.53	192.06	192.06	1.21	82.5	0.58
20Ab 01B	HDPE	26.49	300	0.071	0.5	200	6.07	89.61	0.0269	6.7	6	89.93	0.0269	6.7	6.7		6.7	88.9	0.08	0.09	0.74	0.65	1.26	191.47	190.45	190.11	191.6	0	0.7	-90.9	0.3	2.22	2.66	0	0	0	0.01	0.12	190.51	190.41	190.41	190.41	0.28	264.4	0.96
20Bb to 20A	RCP CL2 FJ	8.35	300	0.071	2	50	6	89.93	0.0192	4.8	6	89.93	0.0192	4.8	4.8		4.8	136.8	0.04	0.07	0.91	0.59	1.94	191.64	190.63	190.47	191.47	0.9	0.53	90	0.02	9.7		0	0		0.013	0.16	190.69	190.68	190.51	190.51	2.11	47.3	0.96
21Ab 01D	RCP CL2 FJ	8.5	450	0.159	0.4	250	6.76	86.4	0.3538	84.9	6.69	86.73	0.3535	85.2	85.2		85.2	180.4	0.47	0.54	1.12	1.23	1.13	191.98	190.34	190.3	191.98	0.9	1.05	45	0.15	0.94		0.01	0.01		0.013	0.01	190.93	190.92	190.91	190.91	0.09	1122	1.05
21Bb to 21A	HDPE	11.91	450	0.159	0.4	250	6.66	86.86	0.336	81.1	6.59	87.19	0.3357	81.3	81.3		81.3	234.5	0.35	0.51	1.34	1.21	1.47	191.89	190.41	190.36	191.98	0.9	1.02	45	0.02	1.21		0.01	0.02		0.01	0.01	190.95	190.94	190.93	190