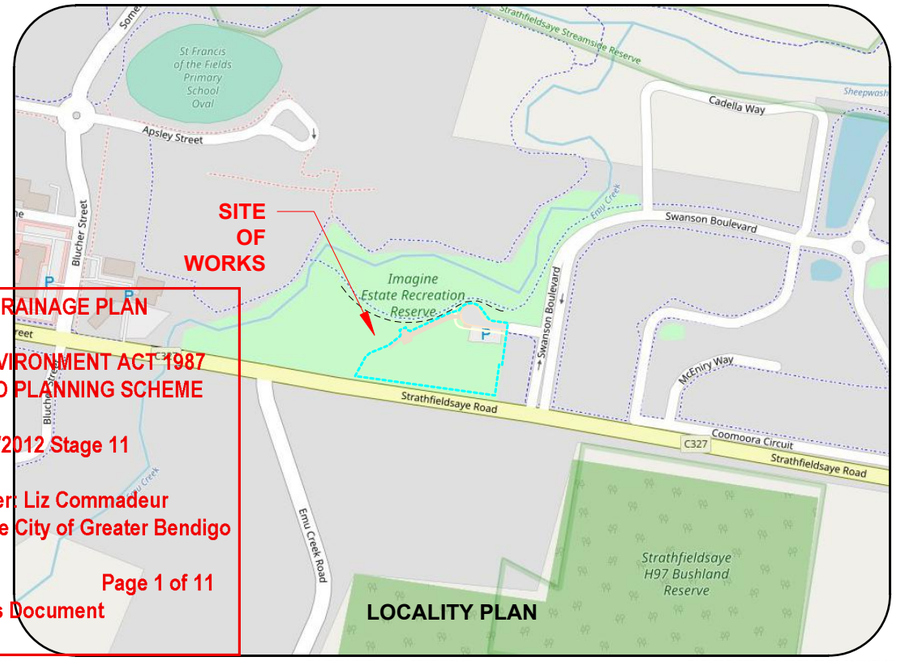
IMAGINE ESTATE, STAGE 11

ROAD & DRAINAGE PLANS

SWANSON BOULEVARD- STRATHFIELDSAYE

GB 3245Q



APPROVED DRAINAGE PLAN

PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME

NO: DS/834/2012 Stage 11

Delegated Officer: Liz Commadeur
For and on behalf of the City of Greater Bendigo

Date: 23 March 2020 Page 1 of 11
All of this Document

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
- PROPOSED ELEC / TELSTRA CONDUIT & PIT
- PROPOSED GAS & WATER CONDUIT
- PROPOSED SEWER AND MANHOLE
- PROPOSED SEWER RISING MAIN
- PROPOSED PRIVATE SEWER
- EXISTING SEWER & MANHOLE
- PROPOSED FUTURE SEWER
- PROPOSED WATER MAIN
- PROPOSED PRIVATE WATER MAIN
- PROPOSED RECYCLED WATER MAIN
- EXISTING WATER MAIN, FIRE PLUG AND VALVE
- PROPOSED FUTURE WATER
- PROPOSED ELECTRICITY MAIN
- PROPOSED PRIVATE ELECTRICITY MAIN
- EXISTING ELECTRICITY MAIN & PIT
- PROPOSED FUTURE ELECTRICITY
- PROPOSED GAS MAIN
- PROPOSED PRIVATE GAS MAIN
- EXISTING GAS MAIN
- PROPOSED FUTURE GAS
- PROPOSED TELECO MAIN
- PROPOSED PRIVATE TELECO MAIN
- EXISTING TELECO CABLE
- PROPOSED FUTURE TELECO
- PROPOSED CATCH DRAIN
- 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
- ES 101.95 EXISTING SURFACE LEVEL
- FS 101.95 FINISHED SURFACE LEVEL
- TK 101.95 BACK OF PROPOSED KERB
- P 101.95 PROP PAVEMENT FOOTPATH LEVEL
- DIRECTION OF LOT GRADING
- FALL FALL DIRECTION OF BASIN GRADING
- PERMANENT SURVEY MARK
- SURVEY STATION

DRAWING LIST

ROAD & DRAINAGE CONSTRUCTION PLANS

1065311R01	LOCALITY PLAN & GENERAL NOTES
1065311R02	OVERALL DEVELOPMENT PLAN
1065311R03	EXISTING CONDITIONS AND SURVEY STATIONS/TBMS
1065311R04	DETAIL PLANS
1065311R05	CUT & FILL DEPTH RANGES & LOT LEVELS
1065311R06	SIGNAGE & LINEMARKING
1065311R07	PAVEMENT DETAILS
1065311R08	COURT BOWL DETAIL & TYPICAL DETAILS
1065311R09	KIWARRA CT (RSC01) LONG SECTION & CROSS SECTIONS
1065311R10	RSD01 LONG SECTION & CROSS SECTIONS
1065311R11	DRAINAGE LONG SECTIONS AND PIT SCHEDULE

DIAL BEFORE YOU DIG www.1100.com.au

REFER TO ELECTRICAL AND TELSTRA PLANS FOR SERVICE AND CONDUIT DETAILS

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

TABLE OF OFFSETS FOR SERVICES

STREET	GAS		WATER		ELEC			TELCO	
					U/G CABLE				
	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE		OFFSET	SIDE
KIWARRA CT (RSC01)	2.9m	SOUTH	3.3m	SOUTH	2.3m	SOUTH		1.9m	SOUTH
RSD01	2.9m	SOUTH	3.3m	SOUTH	2.3m	SOUTH		1.9m	SOUTH

CITY OF GREATER BENDIGO ENGINEERING PLANS APPROVED
Signed.....

GENERAL NOTES

PRIOR TO THE COMMENCEMENT OF WORKS

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

CONSTRUCTION SETOUT

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

SITE MANAGEMENT DURING CONSTRUCTION

14. THE SUPERINTENDENT IS RESPONSIBLE FOR THE DESIGN AND MANAGEMENT OF THE CONSTRUCTION WORKS. ANY PROBLEMS ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE SUPERINTENDENT.
15. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 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 THREE (3) DAYS PRIOR TO COMMENCING EXCAVATIONS, A COPY OF THE NOTIFICATION IS TO BE PROVIDED TO THE SUPERINTENDENT. THE CONTRACTOR SHALL COMPLY WITH THE MINES ACT, OCCUPATIONAL 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 AS3798-1996 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, 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 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
32. ALL TRENCHES ARE TO ACHIEVE THE SPECIFIED COMPACTION RESULTS WITHOUT EXCEPTION. THE SUPERINTENDENT RESERVES THE RIGHT TO REQUIRE COMPACTION TESTING BY A NATA APPROVED LABORATORY AT THE CONTRACTORS EXPENSE.
33. ALL EXCAVATIONS OF DEPTH 1.5m OR GREATER MUST COMPLY WITH LEGISLATION ENFORCED BY WORKSAFE VICTORIA. A "NOTICE OF INTENTION TO COMMENCE EXCAVATION" MUST BE SUBMITTED TO YOUR LOCAL WORKSAFE OFFICE.
34. ALL LOTS ARE TO ACHIEVE A MINIMUM CROSS FALL OF 1 IN 150 (0.67%) TO A LEGAL POINT OF DISCHARGE (DRAINAGE POINT OR ROAD RESERVE) UNLESS STATED OTHERWISE.
35. RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT.

ROAD WORKS AND FOOTPATHS

36. ALL KERB & CHANNEL IS MODIFIED SM2 (IDM SD 107) 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	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
A	AS SUBMITTED TO COUNCIL	JM	JM	AR	07/02/20

MGA94 ZONE 55

Tomkinson Group
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ABN 11 103 336 358 WWW.TOMKINSON.COM

imagine STRATHFIELDSAYE

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

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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
LOCALITY PLAN & GENERAL NOTES
CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 1065311R01 / 11
REV: B

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PLOT DATE: 23/03/2020 FILE: C:\12D\DATA\TOMKBGO-12DS01\1065311 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_3\9DESIGNEERING\CAD\CURRENT DESIGN\1065311 R&D CONSTRUCTION PLANS REV B.DWG

CITY OF GREATER BENDIGO
ENGINEERING PLANS
APPROVED
Signed.....

1065311R03-R06

1065311R08

KIWARRA CT (RSC01)

RESERVE

RSD01

SWANSON BOULEVARD

STAGE 1

STAGE 11

STAGE 2

1GR

COOMOORA CIRCUIT

McENIRY WAY

STRATHFIELDSAYE ROAD

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
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295	296	297	298	299	300	

REV	REVISION	DES	DWG	CHK	DATE
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SCALE 1:1,000
10 0 10 20 30 40 50
LENGTHS ARE IN METRES - PAPER SIZE A3

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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
OVERALL DEVELOPMENT PLAN

CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 1065311R02 / 11
REV: B

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PLOT DATE: 20/03/2020 FILE: C:\12D\DATA\TOMKIN\GGO-12DS01\1065311 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_390ENGINEERING\CAD\CURRENT DESIGN\1065311 R&D CONSTRUCTION PLANS REVB.DWG

TREES TO BE REMOVED ARE AS SHOWN :

CITY OF GREATER BENDIGO
ENGINEERING PLANS
APPROVED
Signed.....

STN 6 RIVET
RL 197.30 AHD

STN 4 NAIL
RL 196.78 AHD

STN 3 SPIKE
RL 198.61 AHD

STN 5 SPIKE
RL 203.39 AHD

EX SHARED PATH

RESERVE

RSD01

KIWARRA CT
(RSC01)

EX 600 x 300Ø RC

EX 1500

EX 3750

EX 3000

EX 1500

EXISTING
DAM

STAGE 11

STAGE 1

9

10

11

12

296

293

292

297

298

299

300

295

294

STRATHFIELDSAYE ROAD

REV	REVISION	DES	DWG	CHK	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
EXISTING CONDITIONS AND SURVEY STATIONS/TBM'S

CITY OF GREATER BENDIGO

STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**

PROJECT & DWG No: 1065311R03 / 11

REV: B

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PLOT DATE: 23/03/2020 FILE: C:\TZD\DATA\TOMKGCO-TZDS01\1065311 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_396\ENGINEERING\CAD\CURRENT DESIGN\1065311 R&D CONSTRUCTION PLANS REVB.DWG

GENERAL DESIGN DETAIL PLAN NOTES

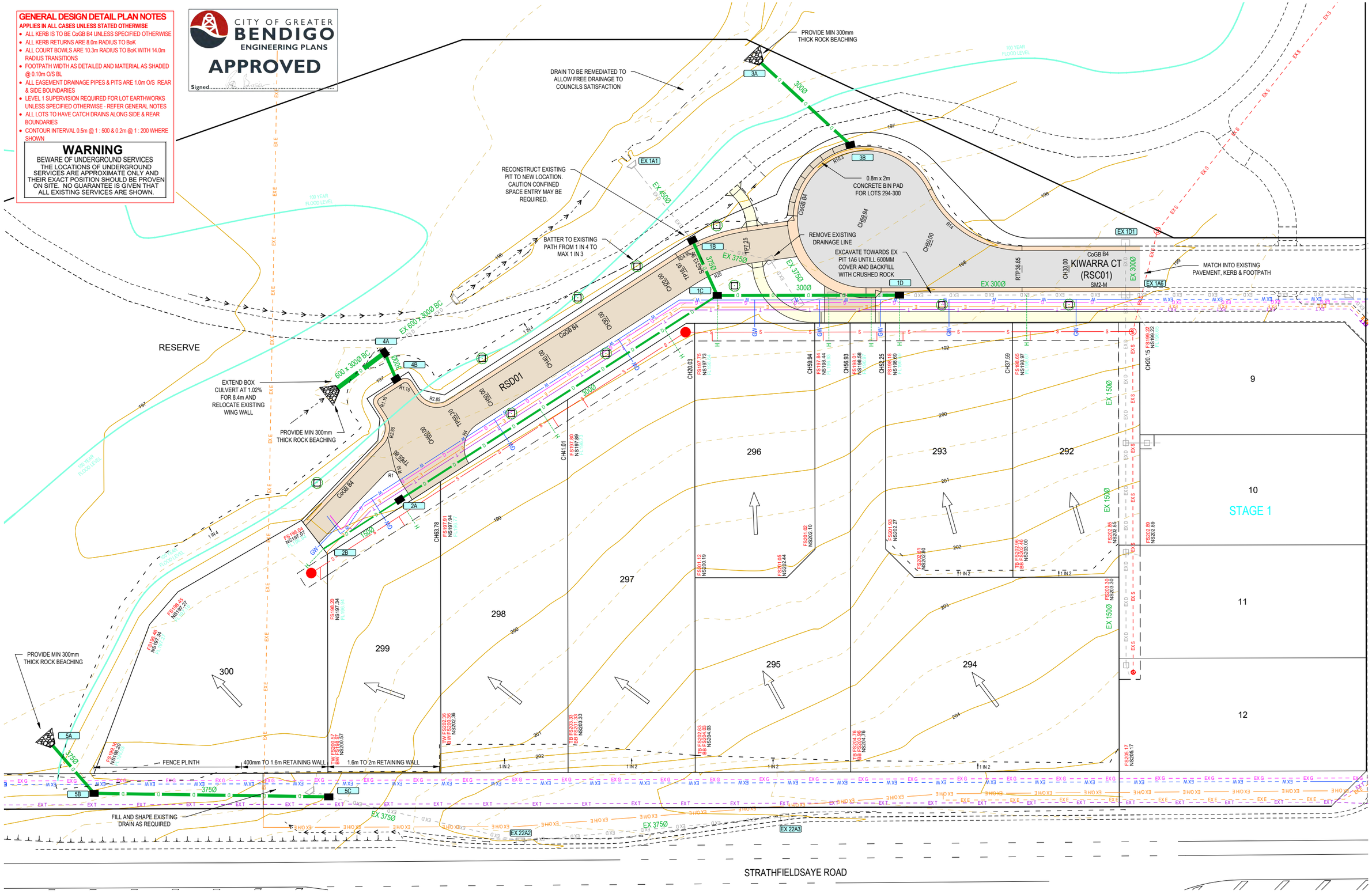
APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- ALL KERB IS TO BE CoGB B4 UNLESS SPECIFIED OTHERWISE
- ALL KERB RETURNS ARE 8.0m RADIUS TO BoK
- ALL COURT BOWLS ARE 10.3m RADIUS TO BoK WITH 14.0m RADIUS TRANSITIONS
- FOOTPATH WIDTH AS DETAILED AND MATERIAL AS SHADED @ 0.10m O/S BL
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & 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 0.5m @ 1 : 500 & 0.2m @ 1 : 200 WHERE SHOWN

WARNING

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

CITY OF GREATER BENDIGO
ENGINEERING PLANS
APPROVED
Signed.....



REV	REVISION	DES	DWG	CHK	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
A	AS SUBMITTED TO COUNCIL	JM	JM	AR	07/02/20

MGA94 ZONE 55

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imagine STRATHFIELDSAYE

SCALE 1:500
5 0 5 10 15 20 25
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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
DETAIL PLAN
CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 1065311R04 / 11
REV: B

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Levels Table

No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour
1	-2.50	-2.00		5	-0.60	-0.30		9	0.60	1.00	
2	-2.00	-1.50		6	-0.30	-0.00		10	1.00	1.50	
3	-1.50	-1.00		7	-0.00	0.30		11	1.50	2.00	
4	-1.00	-0.60		8	0.30	0.60		12	2.00	2.50	

NOTES: CUT & FILL DEPTH LEVELS ARE A COMPARISON BETWEEN EXISTING SURFACE & DESIGN SURFACE. NS LEVELS ARE ORGINAL AS-SURVEYED EXISTING SURFACE LEVELS & FS LEVELS ARE FINAL FINISHED SURFACE AFTER TOPSOILING

CITY OF GREATER BENDIGO
ENGINEERING PLANS
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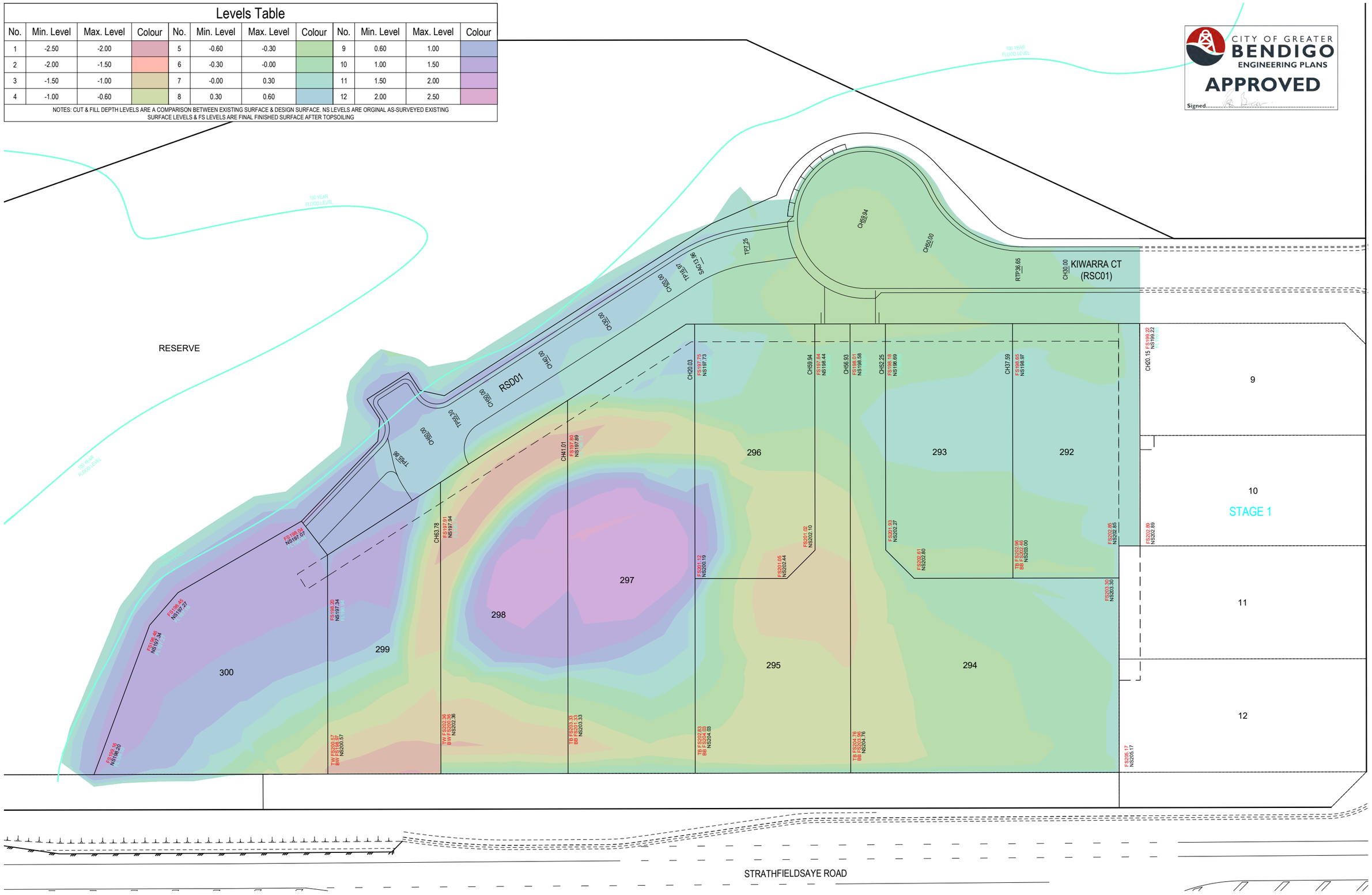

REV	REVISION	DES	DWG	CHK	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
A	AS SUBMITTED TO COUNCIL	JM	JM	AR	07/02/20

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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
CUT & FILL DEPTH RANGES & LOT LEVELS

CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
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CITY OF GREATER BENDIGO
ENGINEERING PLANS
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R8-2A
R7-4A
R8-2A

KIWARRA CT
(RSC01)

RESERVE

RSD01

9
296
293
292
10
STAGE 1
297
298
11
299
295
294
300
12

STRATHFIELDSAYE ROAD

REV	REVISION	DES	DWG	CHK	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
A	AS SUBMITTED TO COUNCIL	JM	JM	AR	07/02/20

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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
SIGNAGE & LINEMARKING PLAN

CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

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PROJECT & DWG No: 1065311R06 / 11
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CITY OF GREATER BENDIGO
ENGINEERING PLANS
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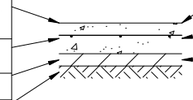
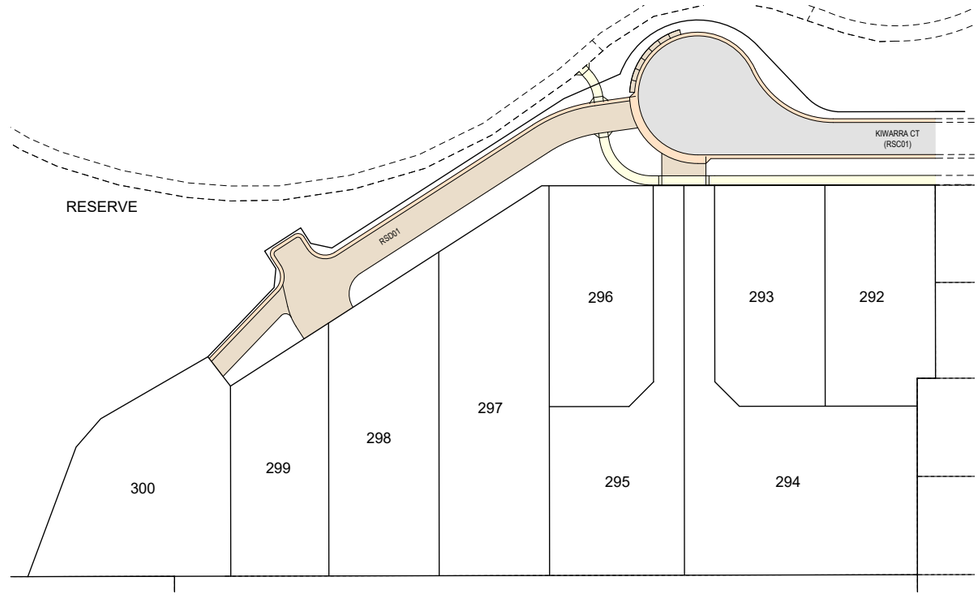
Signed.....

CONCRETE STD SINGLE & DOUBLE DRIVEWAY PAVEMENT DETAILS (IDM SD 240)		
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	150	CONCRETE 32MPa WITH SL82 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	50	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE F BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



CONCRETE FOOTPATH & SHARED PATH 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 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	50	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)

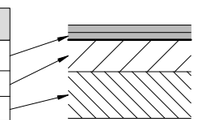


PAVEMENT DESIGN SUBJECT TO GEOTECHNICAL INVESTIGATION

PAVEMENT NOTES:

A. ALL PAVEMENT DESIGNS HAVE BEEN ADOPTED FROM ADJOINING IMAGINE ESTATE PAVEMENT DESIGNS. FINAL PAVEMENT DESIGN SUBJECT TO GEOTECHNICAL INVESTIGATION.
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. THE CAPPING LAYER SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD WITH MOISTURE CONTENT WITHIN ±3% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).
E. PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.
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.

250mm DEPTH PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 WEARING COURSE	30	SIZE 10 TYPE N ASPHALT
2 BASE COURSE	220	20mm NOM. SIZE CLASS 1 FINE CRUSHED ROCK (SEE NOTES)
3 SUBGRADE	300	SUBGRADE STABILISATION 3% CEMENT + 3% LIME (MINIMUM CBR 10)



REV	REVISION	DES	DWG	CHK	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
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10 0 10 20 30 40 50
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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
PAVEMENT DETAILS

CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: PRELIMINARY
PROJECT & DWG No: 1065311R07 / 11
REV: B

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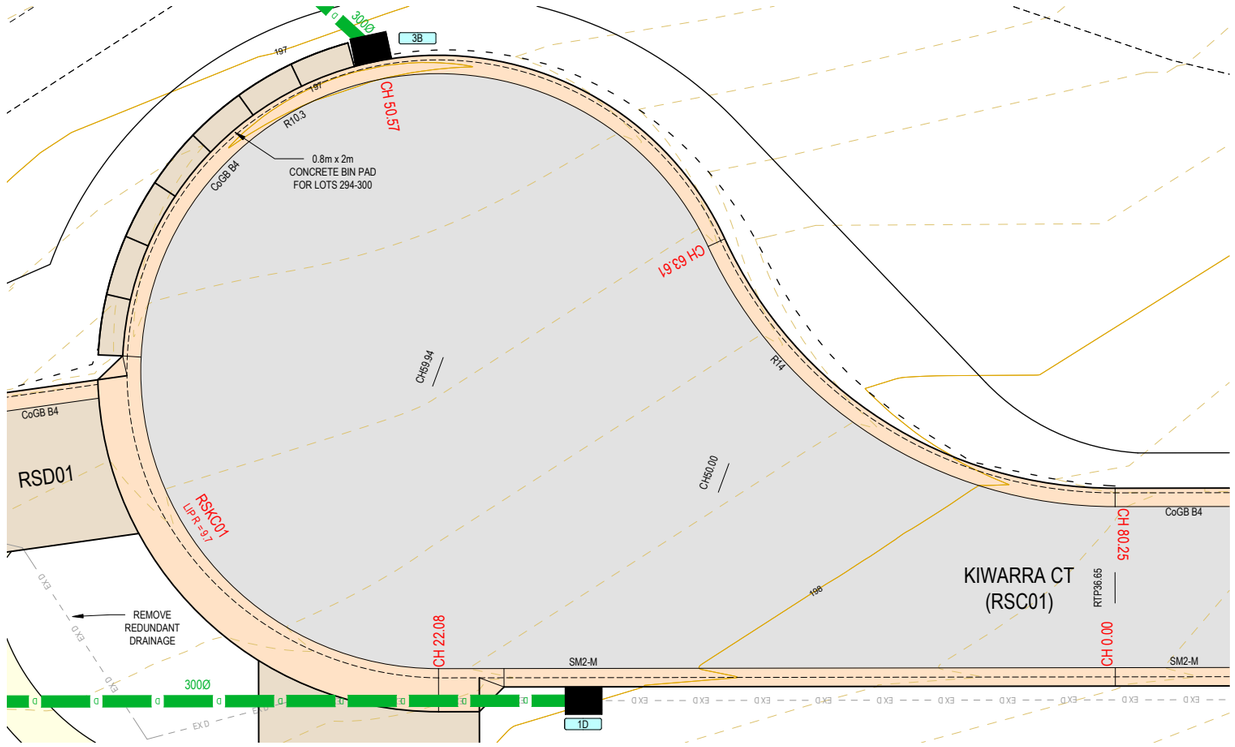

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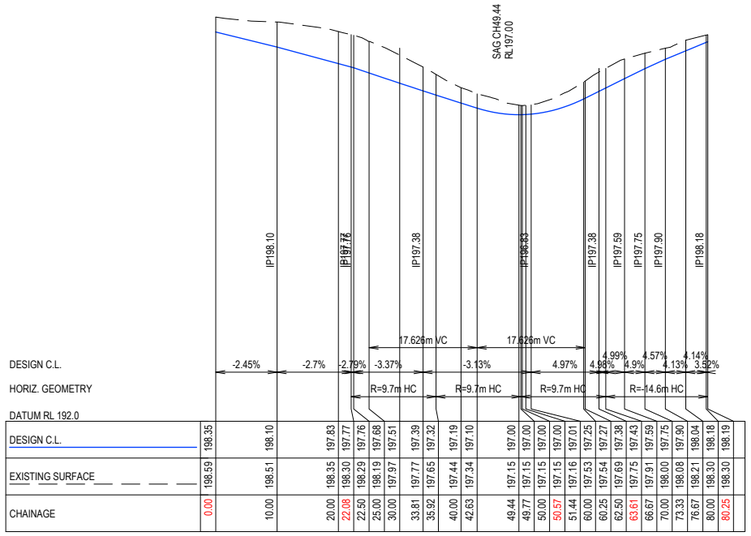

| | | |

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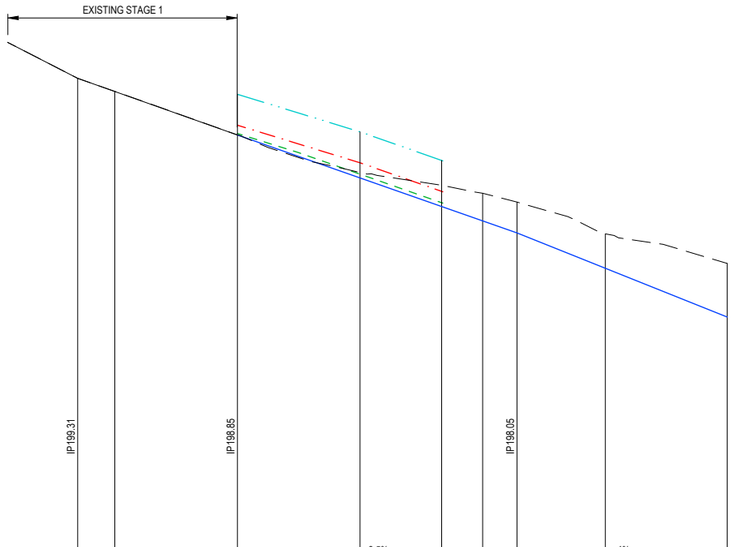
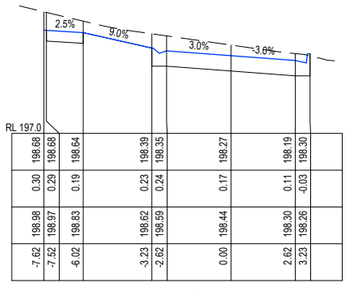


DESIGN C.L.			199.31	199.20	198.85	198.50	198.27	198.15	198.05	197.76	197.37
DESIGN LEFT INSIDE \ ROADSIDE OF PATH				199.53	199.18	198.87	198.64				
DESIGN LEFT BACK OF KERB				199.28	198.93	198.62	198.39				
DESIGN RIGHT BACK OF KERB				199.21	198.86	198.53	198.30				
EXISTING SURFACE			199.31	199.20	198.85	198.54	198.44	198.37	198.30	198.04	197.80
CHAINAGE	0.00	6.97	10.00	20.00	30.00	36.65	40.00	42.80	50.00	59.94	



	198.68	198.68	198.64		198.39	198.35	198.27		198.19	198.30	
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	198.98	198.97	198.83		198.62	198.59	198.44		198.30	198.26	
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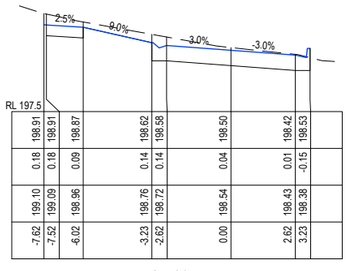
CH 36.65



	198.91	198.91	198.87		198.62	198.58	198.50		198.42	198.53	
	0.18	0.18	0.09		0.14	0.14	0.04		0.01	-0.15	
	199.10	199.09	198.96		198.76	198.72	198.54		198.43	198.38	
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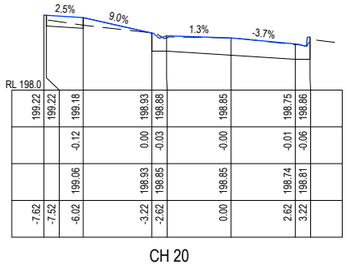
CH 30



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			-0.12		0.00	-0.03	-0.00		-0.01	-0.06	
			199.06		198.93	198.85	198.85		198.74	198.81	
-7.62	-7.52	-6.02			-3.22	-2.62	0.00		2.62	3.22	

CH 20

REV	REVISION	DES	DWG	CHK	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
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SCALE H 1:500 V 1:50
H 5 0 5 10 15 20 25 H
V 0.5 0 0.5 1 1.5 2.0 2.5 V
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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
KIWARRA CT (RSC01) LS & XS

CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 1065311R09 / 11
REV: B

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ENGINEERING PLANS
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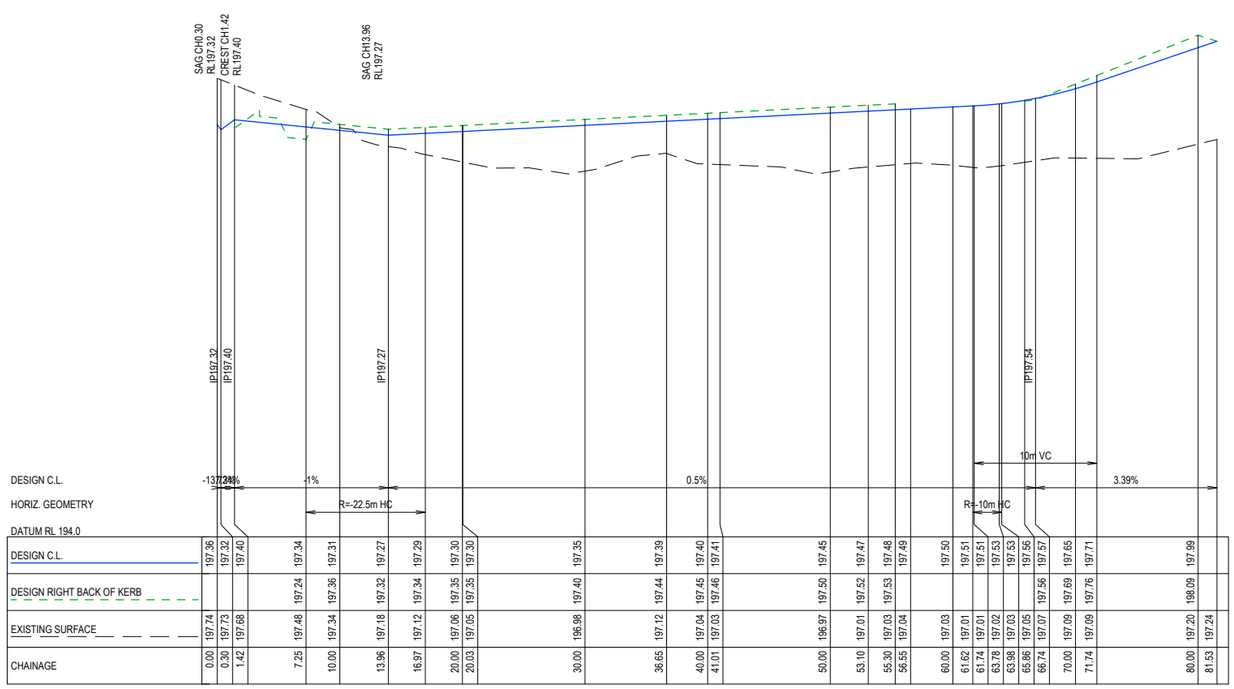

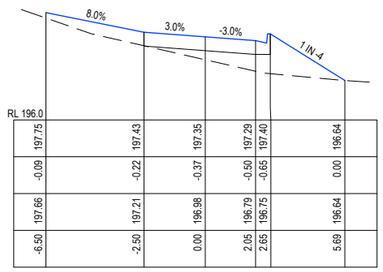

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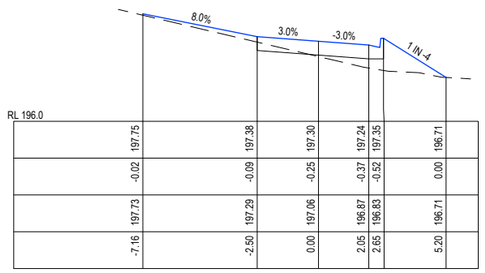
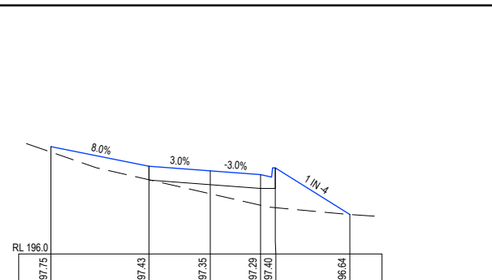


CH 20



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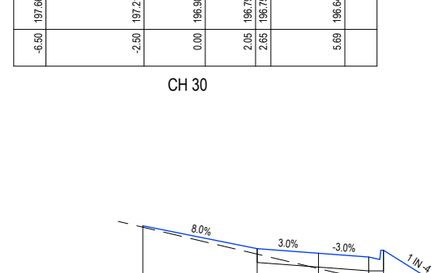
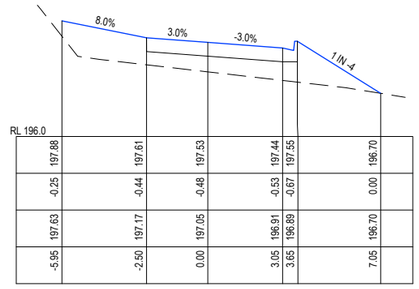
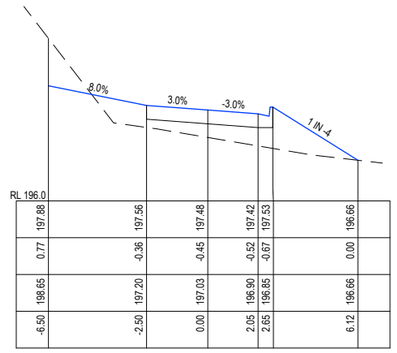


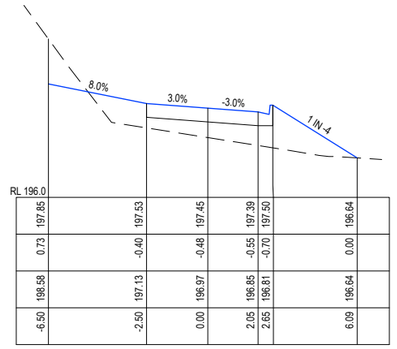
CH 7.25



CH 65.86



CH 55.3



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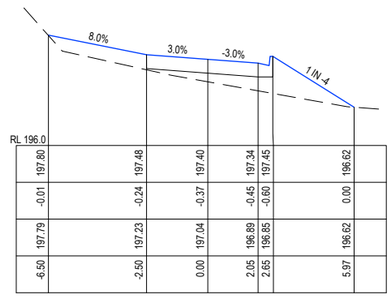

CH 40

REV	REVISION	DES	DWG	CHK	DATE
B	DRAINAGE TO FLUSH JOINT AND DRAINAGE REMEDIATION NOTE	JM	JM	RK	23/03/20
A	AS SUBMITTED TO COUNCIL	JM	JM	AR	07/02/20

Tomkinson Group
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ABN 11 103 336 358 WWW.TOMKINSON.COM

imagine STRATHFIELDSAYE

SCALE H 1:500 V 1:50
H 5 0 5 10 15 20 25 H
V 0.5 0 0.5 1 1.5 2.0 2.5 V
LENGTHS ARE IN METRES - PAPER SIZE A3

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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
RSD01 LS

CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 1065311R10 / 11
REV: B

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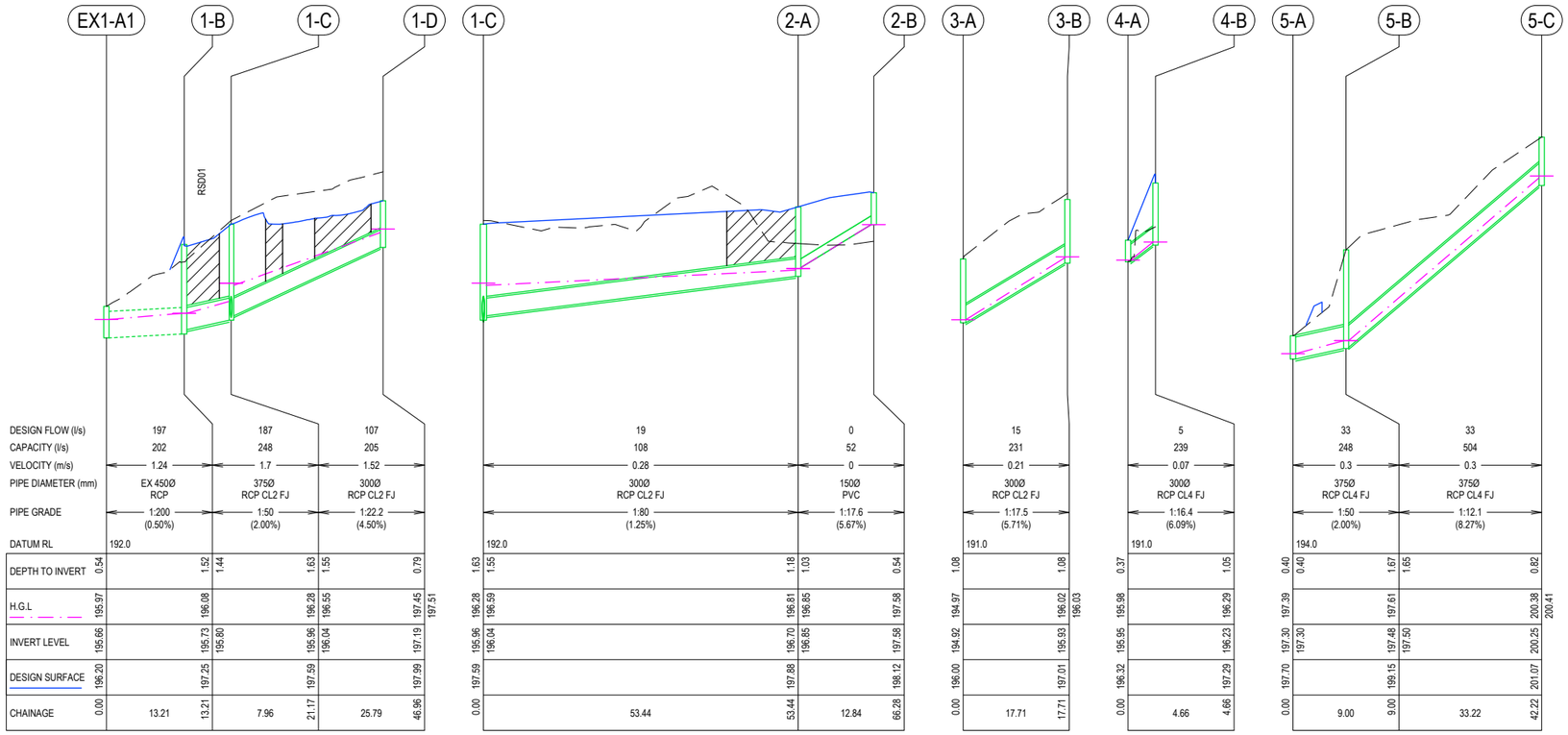
PLOT DATE: 23/03/2020 FILE: C:\TZD\DATA\TOMKBGO-TZDS01\1065311 - STRATHFIELDSAYE HOLDINGS PTY LTD, STRATHFIELDSAYE_S90\ENGINEERING\CAD\CURRENT DESIGN\1065311 R&D CONSTRUCTION PLANS REVB.DWG



CITY OF GREATER BENDIGO
ENGINEERING PLANS
APPROVED
Signed.....

NOTE:

DENOTES 3% FULL DEPTH 20mm CLASS 4 BACKFILL

PIT SCHEDULE

PIT NAME	TYPE	EASTING	NORTHING	INTERNAL WD	INTERNAL LEN	INLET	INV LEV	OUTLET	INV	PIT	DEPTH	REMARKS
EX 1-A1	EXISTING WING WALL	264725.50	5923369.22			450	195.66			196.20	0.54	EXISTING PRECAST WINGWALL
1-B	SEP	264732.12	5923357.78	600	900	375	195.80	450	195.73	197.20	1.47	IDM SD431
1-C	JP	264734.31	5923350.13	600	900	300 300	196.04 196.04	375	195.96	197.59	1.63	IDM SD420
1-D	JP + GJP	264759.85	5923346.58	600	900			300	197.2	197.987	0.792	IDM SD480
2-A	JP	264685.78	5923327.75	600	900	150	196.85	300	196.70	197.88	1.18	IDM SD420
2-B	EP	264674.12	5923322.37	600	900			150	197.58	198.12	0.54	
3-A	WING WALL	264745.00	5923381.88			300	194.92			196.00	1.084	APPROVED PRECAST WINGWALL
3-B	SEP	264755.98	5923367.98	600	900			300	195.93	197.01	1.08	IDM SD430 WITH BIKE SAFE GRATED INSERT MATCHED TO DWY PROFILE
4-A	JP	264686.57	5923348.65	600	900	300	195.95			196.27	0.32	IDM SD420
4-B	SEP	264687.83	5923344.17	600	900			300	196.18	197.24	1.06	IDM SD430 WITH BIKE SAFE GRATED INSERT MATCHED TO DWY PROFILE
5-A	WING WALL	264632.27	5923300.19			375	197.30			197.70	0.40	APPROVED PRECAST WINGWALL
5-B	JP	264637.16	5923292.63	600	900	375	197.50	375	197.48	199.15	1.67	IDM SD420
5-C	JP	264669.98	5923287.51	600	900			375	200.25	201.07	0.82	IDM SD420

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IMAGINE ESTATE, STAGE 11
SWANSON BVD - STRATHFIELDSAYE
DRAINAGE LS & PIT SCHEDULE
CITY OF GREATER BENDIGO
STRATHFIELDSAYE HOLDINGS PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: 1065311R11 / 11
REV: B

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