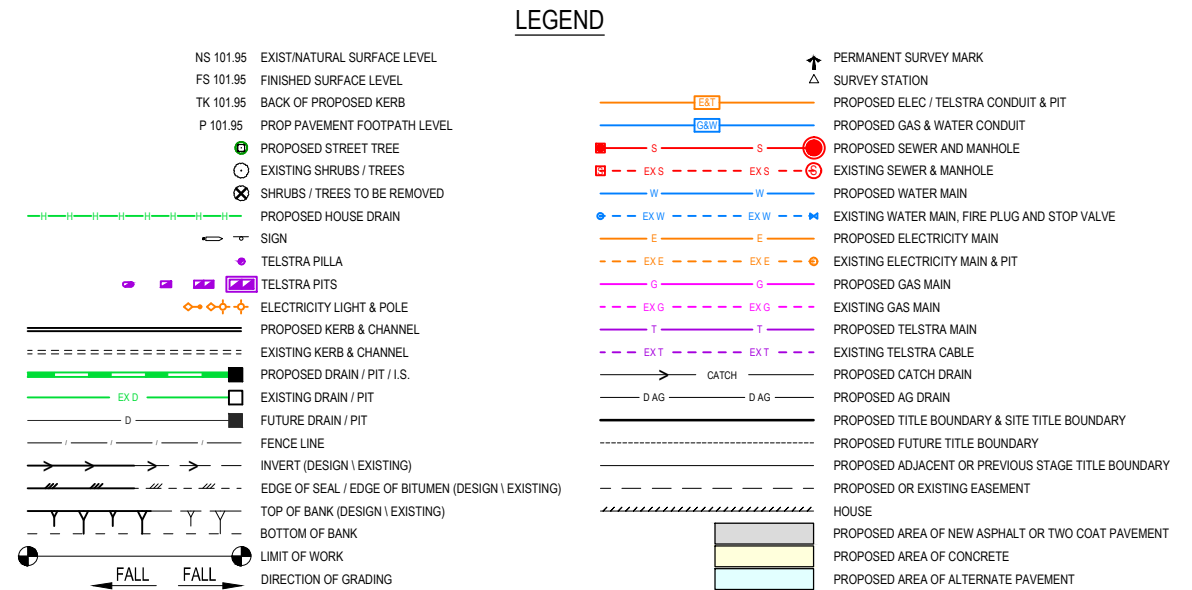
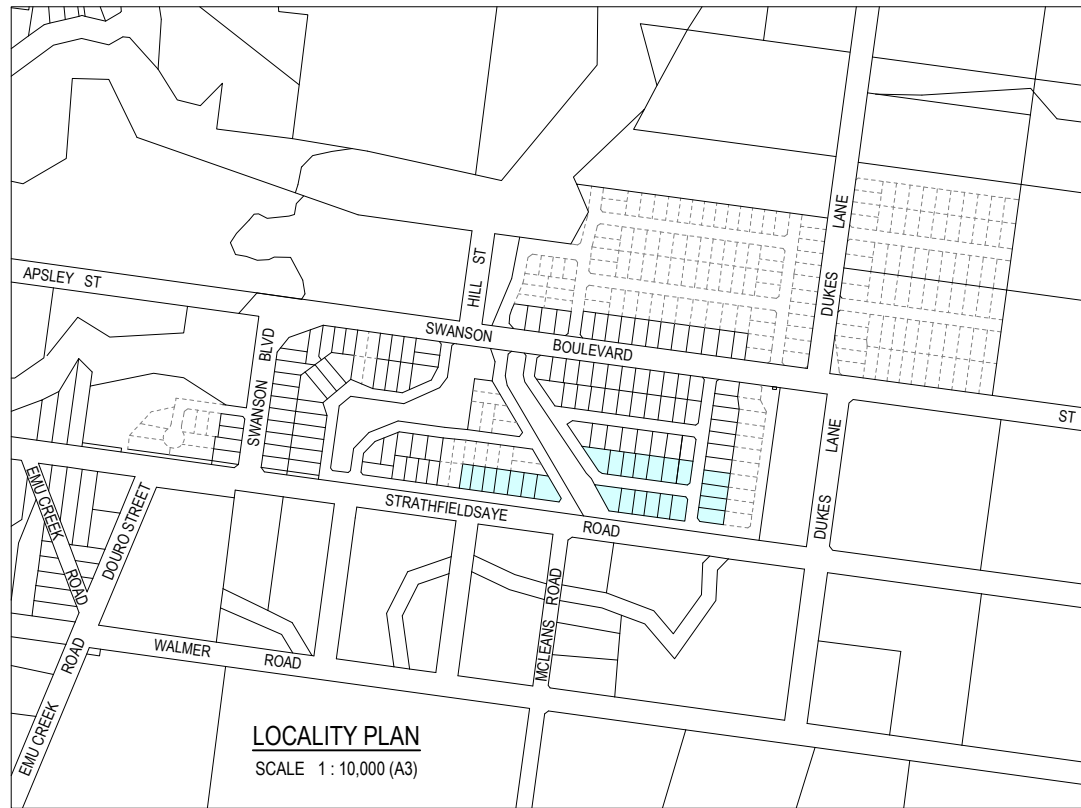


"IMAGINE" ESTATE - STAGE 5

ROAD & DRAINAGE PLANS

STRATHFIELDSAYE EAST PRECINCT



DRAWING LIST

ROAD & DRAINAGE CONSTRUCTION PLANS	
1065305R01	LOCALITY PLAN & GENERAL NOTES
1065305R02	STAGE PLAN
1065305R03-R06	LAYOUT PLAN (4 SHEETS)
1065305R07-R08	INTERSECTION DETAIL PLANS (2 SHEETS)
1065305R09-R10	ROAD TYPICAL DETAILS (2 SHEETS)
1065305R11	EARTHWORKS PLAN
1065305R12	TREE REMOVAL PLAN
1065305R13-R30	ROAD LONG & CROSS SECTIONS (18 SHEETS)
1065305R31-R39	DRAINAGE LONG SECTIONS & PIT SCHEDULE (9 SHEETS)

TABLE OF OFFSETS FOR SERVICES

STREET	GAS		WATER		ELECTRICITY		COMMS	
	OFFSET	SIDE	OFFSET	SIDE	OFFSET*	SIDE	OFFSET	SIDE
COOMOORA CIRCUIT (ADJACENT TO RESERVE)	1.9m	WEST	2.3m	WEST	1.0m	EAST	0.5m	EAST
COOMOORA CIRCUIT (EAST-WEST)	2.9m	NORTH	3.4m	NORTH	2.3m	NORTH	1.9m	NORTH
MCEINRY WAY	1.9m	SOUTH	2.3m	SOUTH	2.4m	NORTH	1.9m	NORTH
YIRRILLIL WAY (ADJACENT TO RESERVE)	1.9m	EAST	2.3m	EAST	1.0m	WEST	0.5m	WEST
YIRRILLIL WAY (EAST-WEST)	1.9m	SOUTH	2.3m	SOUTH	2.4m	NORTH	1.9m	NORTH
WALLAROO AVE (NORTH-SOUTH)	1.9m	EAST	2.3m	EAST	2.4m	WEST	1.9m	WEST
WALLAROO AVE (ADJ STRATHFIELDSAYE RD)	4.2m	NORTH	4.7m	NORTH	3.4m	NORTH	2.9m	NORTH

GENERAL NOTES

- PRIOR TO THE COMMENCEMENT OF WORKS**
- THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE RELEVANT WORKS.
 - THE CONTRACTOR MUST OBTAIN AN ASSET PROTECTION PERMIT FROM THE MUNICIPALITY FOR ANY WORKS UNDERTAKEN WITHIN AN EXISTING ROAD RESERVE PRIOR TO THE COMMENCEMENT OF WORKS.
 - 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.
 - 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.
 - 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.
 - NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND SERVICES ARE PRESENT.
 - 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.
 - IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN WITHOUT PERMISSION FROM THE UTILITY COMPANY.
 - THE CONTRACTOR MUST PREPARE A PROJECT MANAGEMENT PLAN (OTHERWISE CALLED A CONSTRUCTION OR SITE MANAGEMENT PLAN) AND HAVE IT APPROVED BY BOTH COUNCIL & THE CONSULTANT 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:
 - OCCUPATIONAL HEALTH & SAFETY PROCEDURES
 - SITE STAFFING INCLUDING CONTACT DETAILS
 - TRAFFIC MANAGEMENT PLAN
 - ENVIRONMENTAL MANAGEMENT PLAN
 - QUALITY ASSURANCE DETAILS (FOR QA CERTIFIED CONTRACTORS)
- CONSTRUCTION SETOUT**
- ALL LEVELS ARE TO A H.D. AND ARE REFERENCED TO THE T.B.M. INDICATED
 - NO TBM CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A SECOND TBM. TOMKINSON IS TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. NO HORIZONTAL SETOUT CONTROL CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A THIRD KNOWN POINT. TOMKINSON GROUP IS TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. TITLE PEGS AND T.B.M.'s TO BE RE-ESTABLISHED BY A LICENCED SURVEYOR IF FOUND TO BE MISSING.
- SITE MANAGEMENT DURING CONSTRUCTION**
- THE CONSULTING ENGINEER IS RESPONSIBLE FOR THE DESIGN AND MANAGEMENT OF THE CONSTRUCTION WORKS. ANY PROBLEMS ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE CONSULTANT.
 - 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 CONSULTANT
 - 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.
 - THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 202 THE MINE (TRENCHING) ACT 1992 AS AMENDED AND RELEVANT REGULATIONS INCLUDING NOTIFICATION TO THE SECRETARY OF MINERALS AND ENERGY OF HIS INTENTION TO COMMENCE EXCAVATION OPERATIONS WHERE ANY TRENCH OR PIT IS 1.5 METRES OR MORE IN DEPTH.

20. THE CONTRACTOR SHALL TO THE SATISFACTION OF THE CONSULTING ENGINEER 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
 - DISPOSAL OF EXCESS SPOIL TRUCK ROUTE AND DISPOSAL LOCATION ARE TO BE APPROVED BY THE MUNICIPAL ENGINEERING DEPARTMENT.
 - 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**
- NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS APPROVED BY THE RESPONSIBLE AUTHORITY
 - MACHINERY IS NOT TO BE DRIVEN OVER OR PARKED WITHIN THE DRIP ZONE OF ANY TREE
- EARTHWORKS**
- ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH A3 3798 (1996)
 - ALL FILLING WITHIN AREAS OF PROPOSED ROAD PAVEMENT IS TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD.
 - ALL FILLING WITHIN OTHER AREAS IS TO ACHIEVE A MINIMUM COMPACTION OF 95% STANDARD.
 - 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
- ROAD WORKS AND FOOTPATHS**
- ALL KERB & CHANNEL IS MODIFIED SM2 (IDM SD 107) UNLESS STATED OTHERWISE
 - ALL ASPHALT ROAD SEALS ARE TO BE 7mm TYPE 'N' UNLESS STATED OTHERWISE
 - ALL KERB RADII ARE TO BACK OF KERB UNLESS STATED OTHERWISE
 - ALL FOOTPATHS ARE 1.5m WIDE CONCRETE UNLESS STATED OTHERWISE

- TGSIs ARE TO BE INSTALLED ON ALL PEDESTRIAN CROSSINGS AS PER AS 1428.4
 - ALL NEW INTERSECTIONS ARE TO HAVE STREET SIGNS INSTALLED TO COUNCIL STANDARDS IRRESPECTIVE OF WHETHER THEY ARE DETAILED ON THE ENGINEERING PLANS OR NOT.
 - AT ALL TEMPORARY STAGE BOUNDARY TERMINATIONS TO ROADS THE CONTRACTOR IS TO INSTALL A D4-5 HAZARD SIGN
 - ALL CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS
 - TRANSITIONS BETWEEN DIFFERENT KERB TYPES TO BE OVER 3.0m MINIMUM, IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER
 - ROAD PAVEMENT COMPACTION & TESTING REQUIREMENTS ARE AS PER THE INFRASTRUCTURE DESIGN MANUAL
- STORMWATER DRAINAGE AND SERVICE CONDUIT NOTES**
- ALL EASEMENT DRAINAGE PIPES ARE 1.0m OFFSET TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE
 - ALL EASEMENT DRAINAGE PITS ARE TO BE 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE
 - 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.
 - 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
 - RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE CONSULTING ENGINEER
 - STORMWATER DRAINS SHALL BE RCP FLUSH JOINTED CLASS 2 OR PVC CLASS SN8 UNLESS OTHERWISE SHOWN.
 - 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.
 - ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER
- CONSTRUCTION HOLD POINTS**
- CONSTRUCTION HOLD POINTS ARE TO BE IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL
- EMERGENCY CONTACTS**
- | 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

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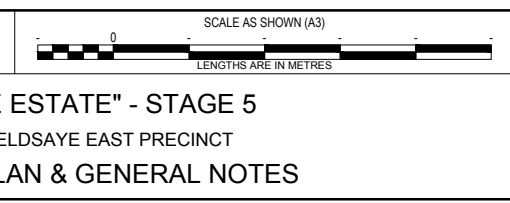
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REV	DESCRIPTION	DES	DWG	CHK	DATE
J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10-B20-B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILLIL WAY	NJB	NJB	NJB	22/08/14

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 WEB: www.tomkinson.com

Development Planners
 CIVIL ENGINEERS
 ISO 9001:2008
 FS520488
 57 MYERS STREET, BENDIGO 3550
 EMAIL: bendigo@tomkinson.com

Principal STRATHFIELDSAYE HOLDINGS PTY LTD



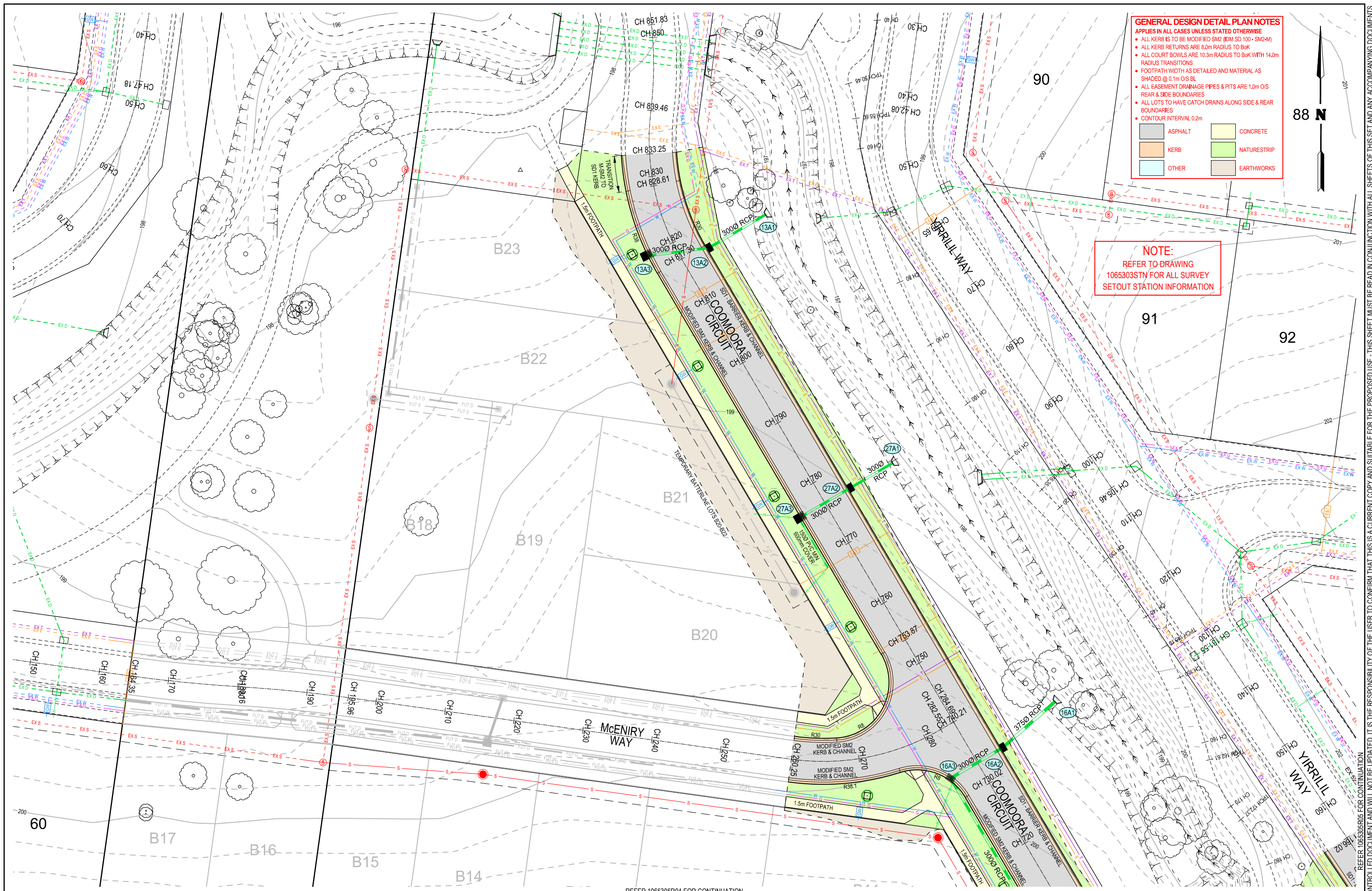
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 LOCALITY PLAN & GENERAL NOTES

Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012

SHT 1 of 39 REV J

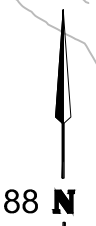
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- GENERAL DESIGN DETAIL PLAN NOTES**
- APPLIES IN ALL CASES UNLESS STATED OTHERWISE
- ALL KERB IS TO BE MODIFIED SM2 (DOM SD 100 - SM2-M)
 - ALL KERB RETURNS ARE 8.0m RADIUS TO BOK
 - ALL COURT BOWLS ARE 10.3m RADIUS TO BOK WITH 14.0m RADIUS TRANSITIONS
 - FOOTPATH WIDTH AS DETAILED AND MATERIAL AS SHADDED @ 0.1m O/S BL
 - ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
 - ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
 - CONTOUR INTERVAL 0.2m
- | | |
|---------|-------------|
| ASPHALT | CONCRETE |
| KERB | NATURESTRIP |
| OTHER | EARTHWORKS |

NOTE:
REFER TO DRAWING 1065303STN FOR ALL SURVEY SETOUT STATION INFORMATION



REFER 1065305R04 FOR CONTINUATION

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tomkinson Group

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SCALE 1:500 (A3)
 LENGTHS ARE IN METRES

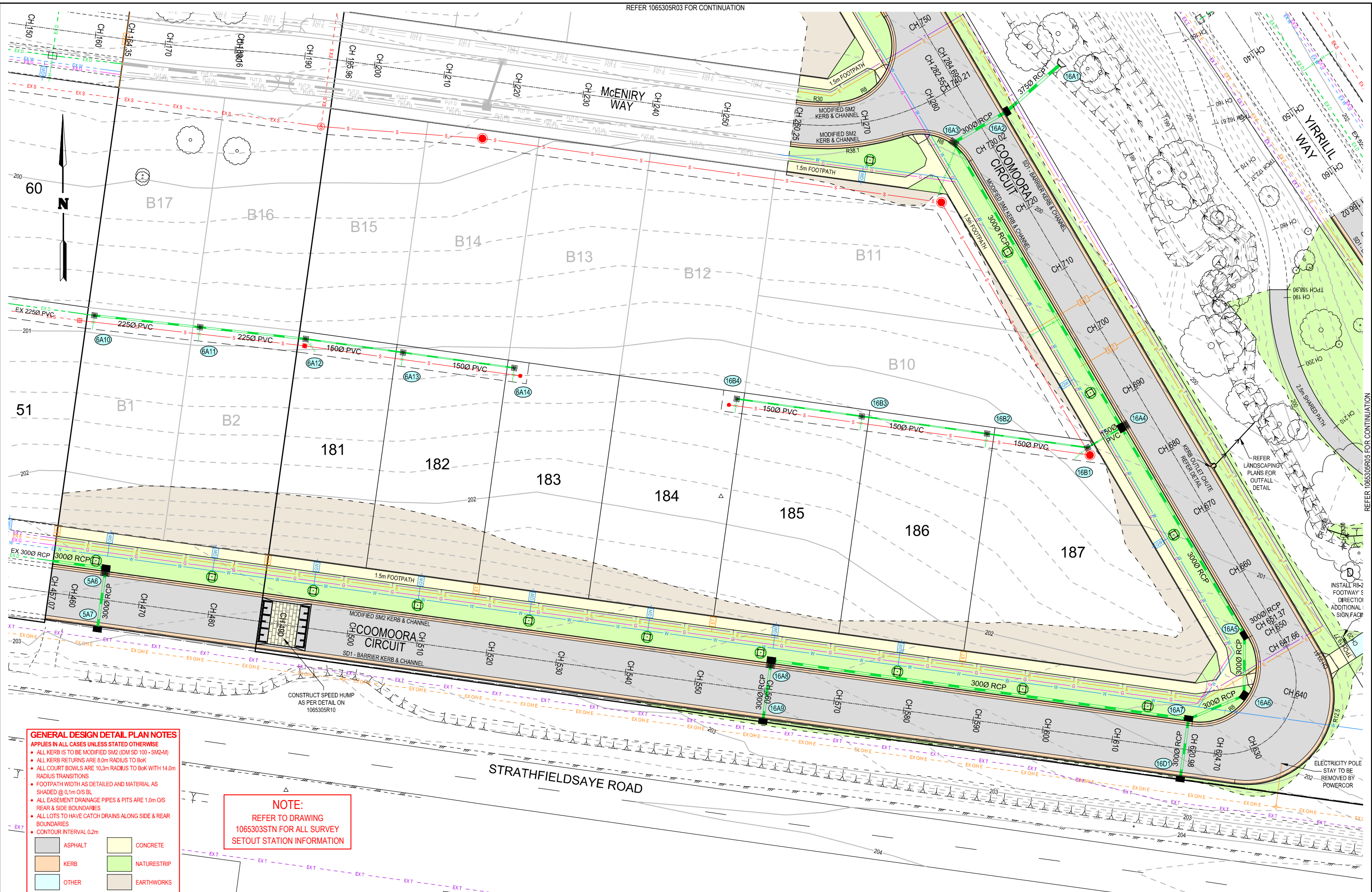
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 LAYOUT PLAN (SHEET 1 OF 2)

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 REFER 1065305R05 FOR CONTINUATION



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 APPLIES IN ALL CASES UNLESS STATED OTHERWISE

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- CONTOUR INTERVAL 0.2m

ASPHALT	CONCRETE
KERB	NATURESTRIP
OTHER	EARTHWORKS

NOTE:
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 SETOUT STATION INFORMATION

APPROVED FOR CONSTRUCTION

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SCALE 1:500 (A3)
 LENGTHS ARE IN METRES

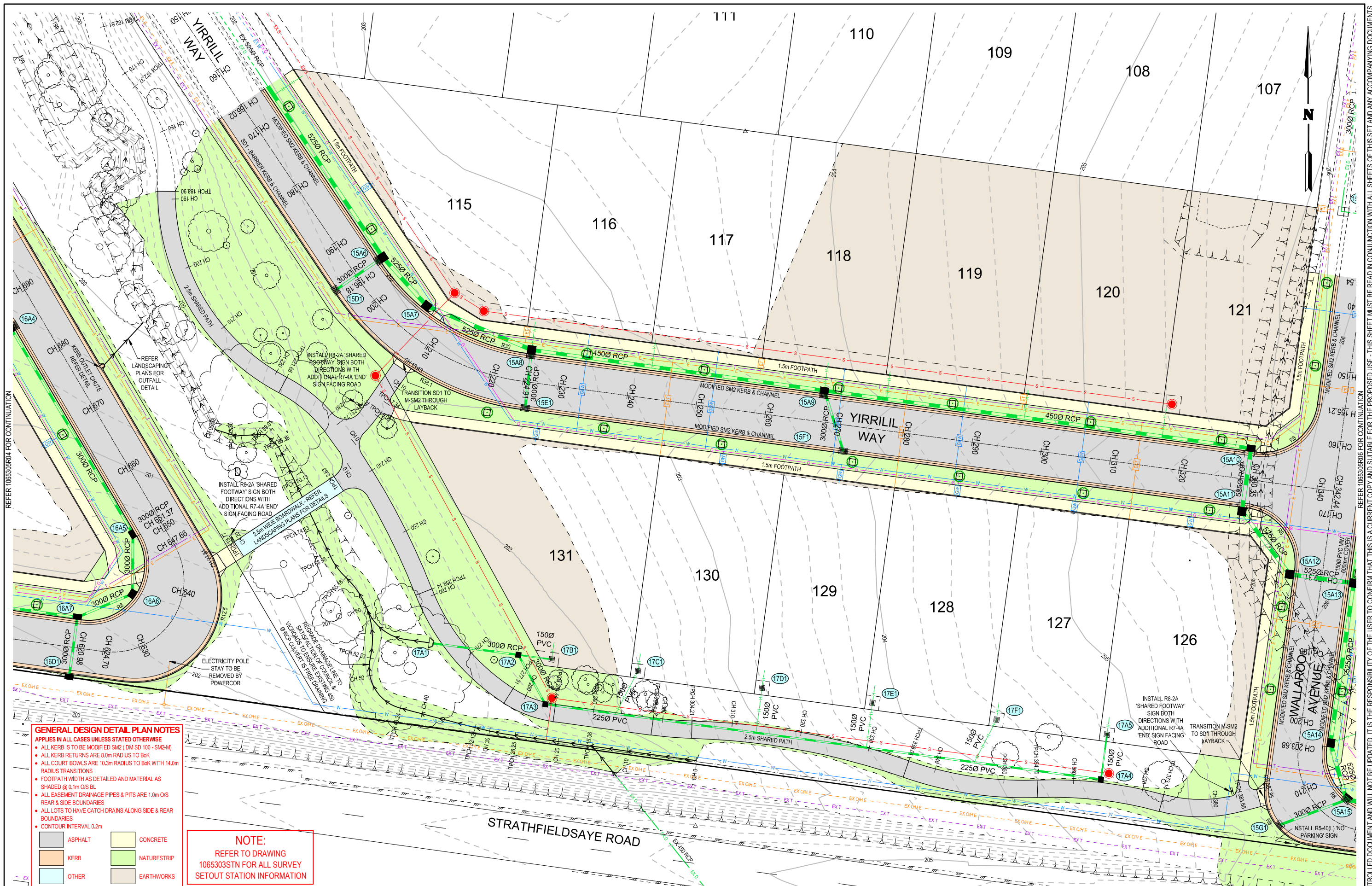
"IMAGINE ESTATE" - STAGE 5
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 LAYOUT PLAN (SHEET 1 OF 2)

Municipality & Ref:
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 PP DS/791/2012

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GENERAL DESIGN DETAIL PLAN NOTES

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 - ALL KERB RETURNS ARE 8.0m RADIUS TO B&K
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 - ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
 - CONTOUR INTERVAL 0.2m

ASPHALT	CONCRETE
KERB	NATURESTRIP
OTHER	EARTHWORKS

NOTE:
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APPROVED FOR CONSTRUCTION

REV	DWG	CHK	DATE	REVISION
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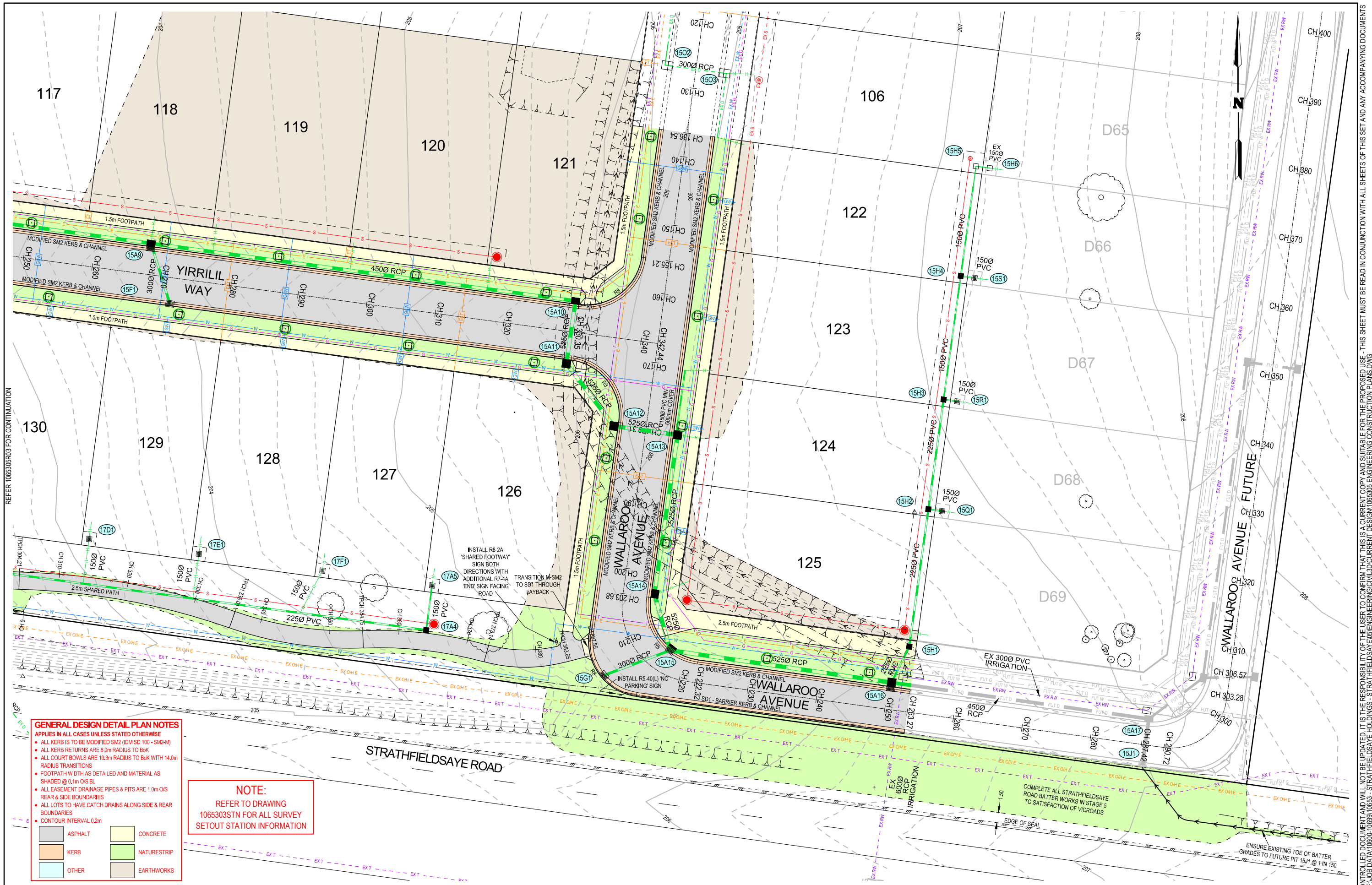
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 LAYOUT PLAN (SHEET 1 OF 2)

Municipality & Ref:
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 PP DS/791/2012

SHT 5 of 39 REV J

Drawing No.
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GENERAL DESIGN DETAIL PLAN NOTES

- APPLIES IN ALL CASES UNLESS STATED OTHERWISE
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 - ALL KERB RETURNS ARE 8.0m RADIUS TO B&K
 - ALL COURT BOWLS ARE 10.3m RADIUS TO B&K WITH 14.0m RADIUS TRANSITIONS
 - FOOTPATH WIDTH AS DETAILED AND MATERIAL AS SHADED @ 0.1m O/S BL
 - ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
 - ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
 - CONTOUR INTERVAL 0.2m

ASPHALT	CONCRETE
KERB	NATURESTRIP
OTHER	EARTHWORKS

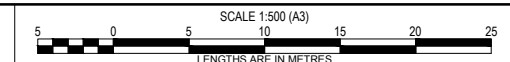
NOTE:
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1065303STN FOR ALL SURVEY
SETOUT STATION INFORMATION

APPROVED FOR CONSTRUCTION

REV	DWG	CHK	DATE	REVISION
J	NB	NB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
I	NB	NB	26/05/15	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN
H	NB	NB	06/05/15	ADDED STREET TREES
G	NB	NB	10/04/15	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE
F	NB	NB	07/04/15	MINOR AMENDS AT CLIENT REQUEST
E	NB	NB	02/04/15	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS
D	NB	NB	22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY

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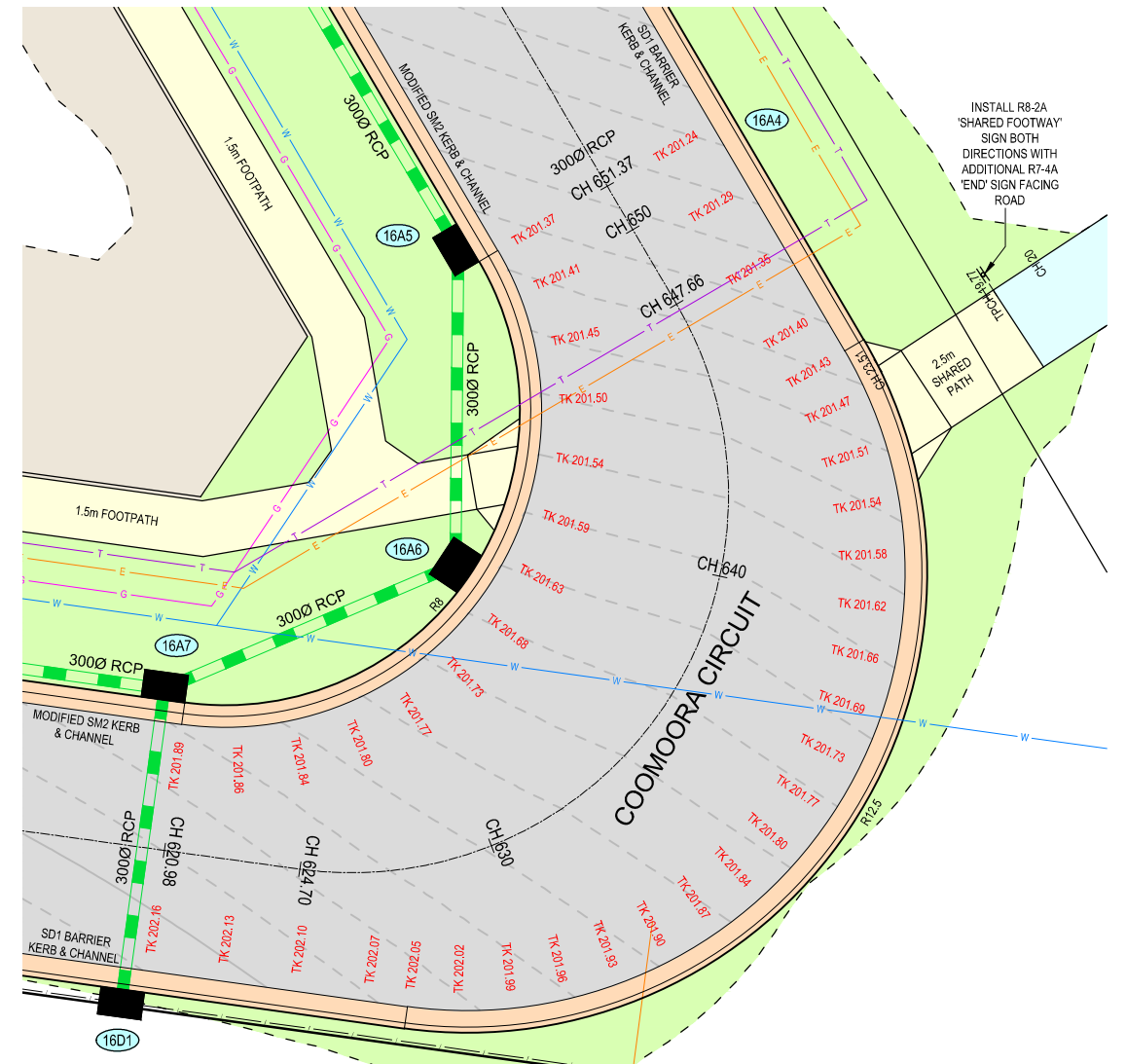
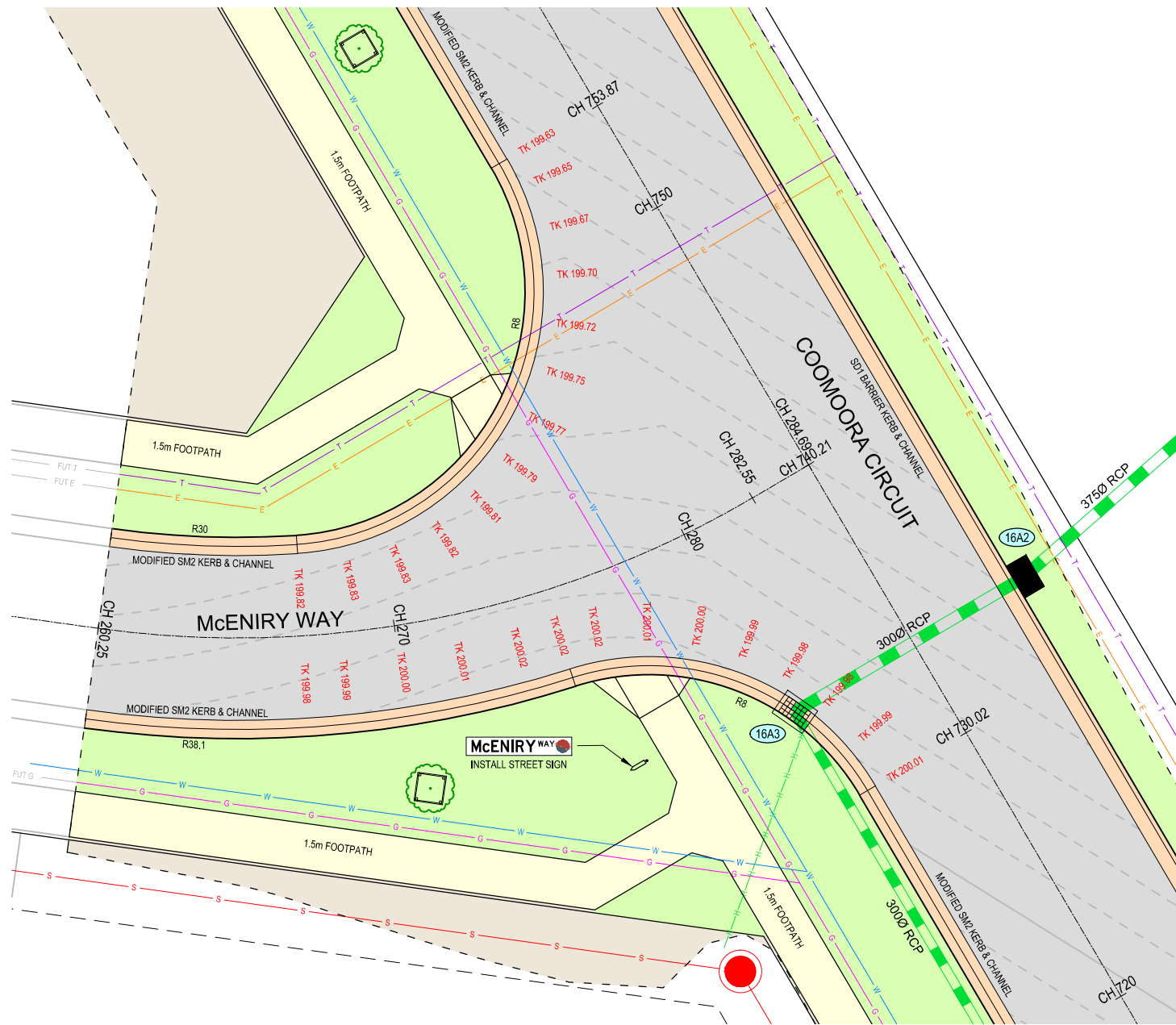
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"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 LAYOUT PLAN (SHEET 2 OF 2)

Municipality & Ref:
CITY OF
GREATER BENDIGO
PP DS/791/2012
SHT 6 of 39 REV J
Drawing No.
1065305R06

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CONTOUR INTERVAL 50mm

- GENERAL DESIGN DETAIL PLAN NOTES**
- APPLIES IN ALL CASES UNLESS STATED OTHERWISE
- ALL KERBS IS TO BE MODIFIED SM2 (DM SD 100 - SM2-M)
 - ALL KERB RETURNS ARE 8.0m RADIUS TO BoK
 - ALL COURT BOVLS ARE 10.3m RADIUS TO BoK WITH 14.0m RADIUS TRANSITIONS
 - FOOTPATH WIDTH AS DETAILED AND MATERIAL AS SHADDED @ 0.1m O/S BL
 - ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
 - ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
 - CONTOUR INTERVAL 0.2m
- | | |
|---------|-------------|
| ASPHALT | CONCRETE |
| KERB | NATURESTRIP |
| OTHER | EARTHWORKS |

APPROVED FOR CONSTRUCTION

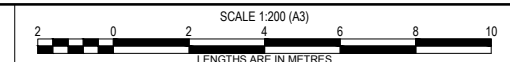
REV	DWG	CHK	DATE	REVISION
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D	NJB	NJB	22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILLI WAY

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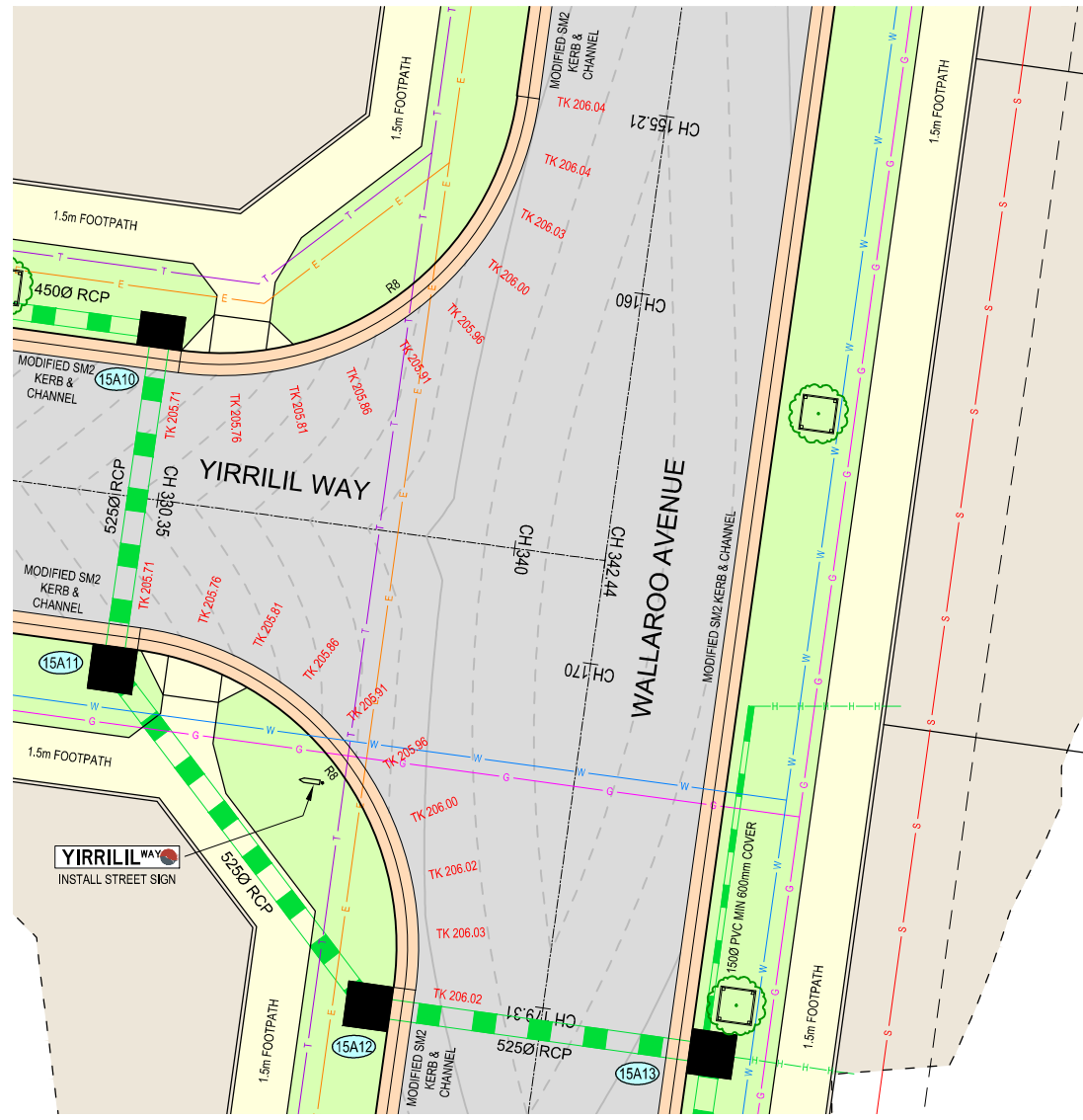
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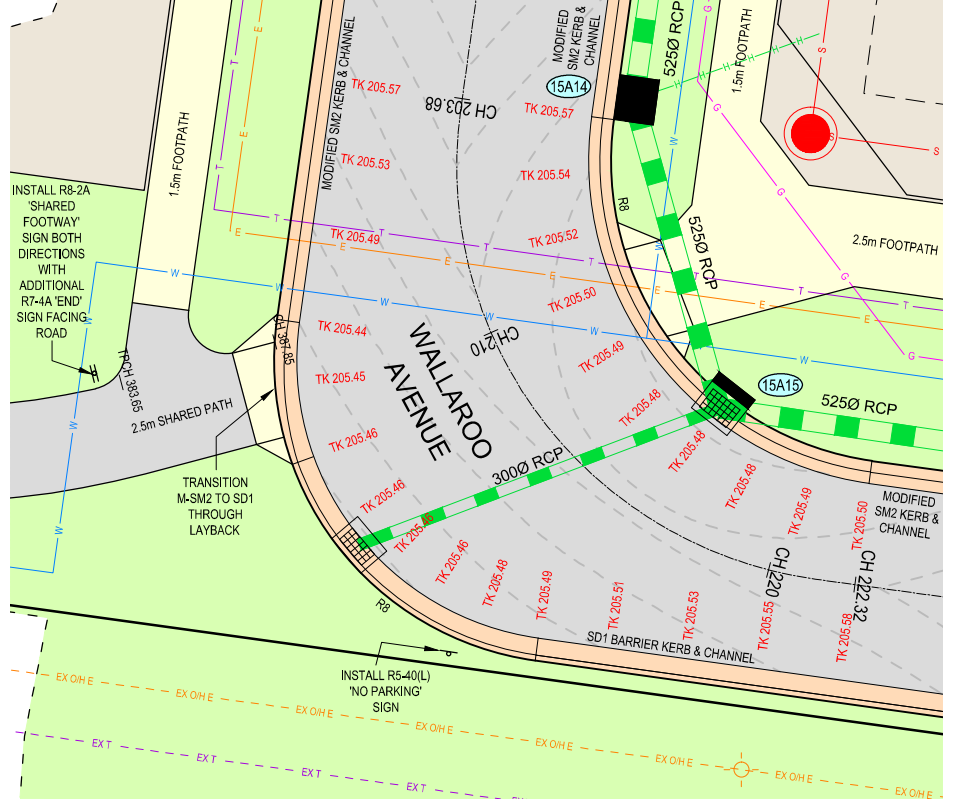
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 INTERSECTION DETAIL PLANS (SHEET 1 OF 2)

Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012
 SHT 7 of 39 REV J
 Drawing No.
 1065305R07

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CONTOUR INTERVAL 50mm



GENERAL DESIGN DETAIL PLAN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- ALL KERBS TO BE MODIFIED SM2 (IDM SD 100 - SM2-M)
- 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 @ 0.1m O/S BL
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
- ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
- CONTOUR INTERVAL 0.2m

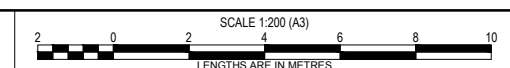
ASPHALT	CONCRETE
KERB	NATURESTRIP
OTHER	EARTHWORKS

APPROVED FOR CONSTRUCTION

REV	DES	DWG	CHK	DATE	REVISION
J	NJB	NJB	NJB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
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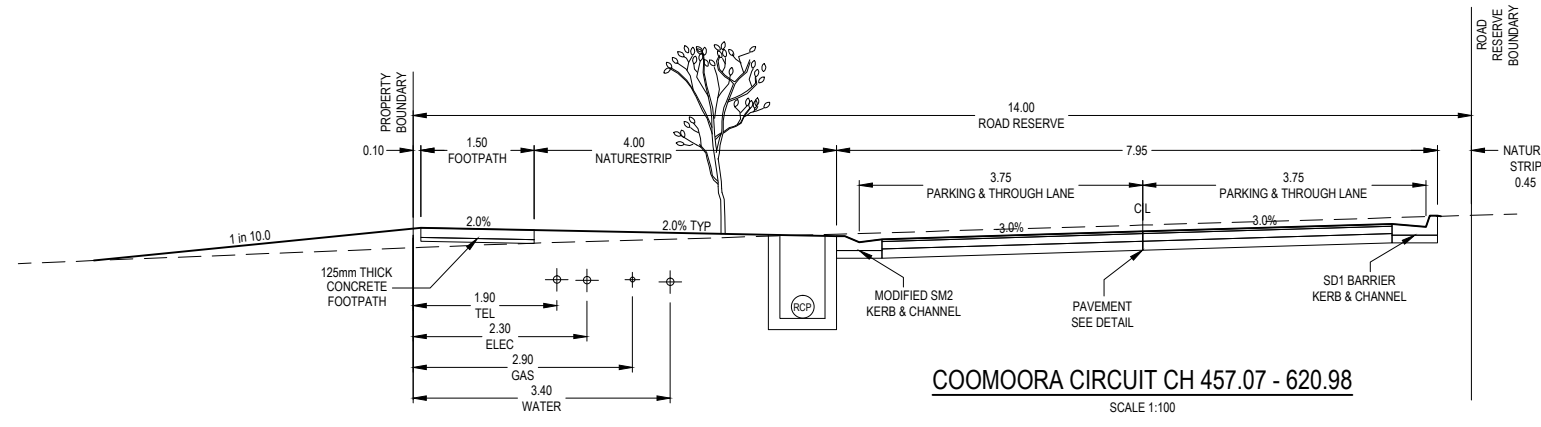
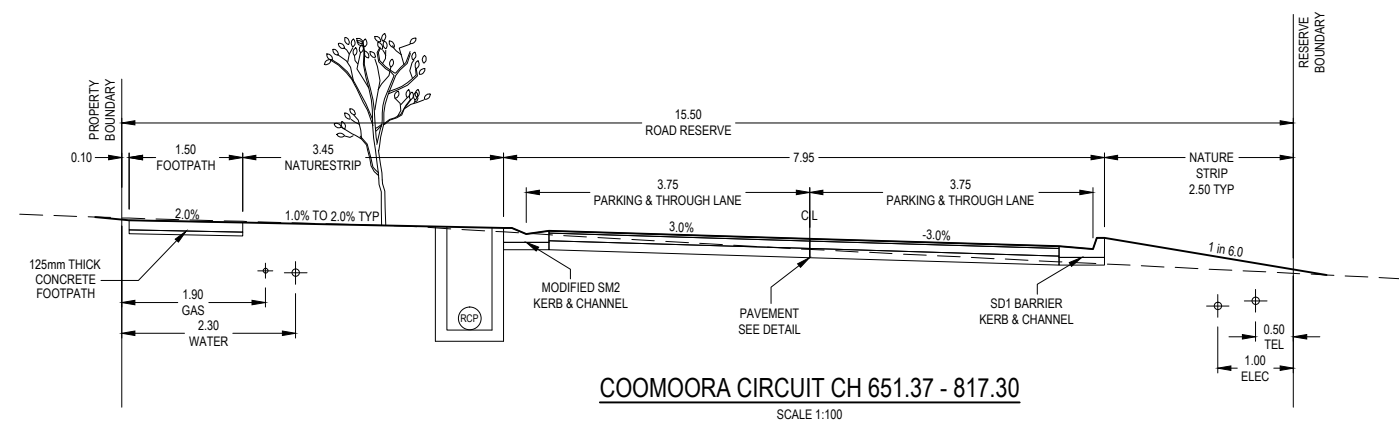
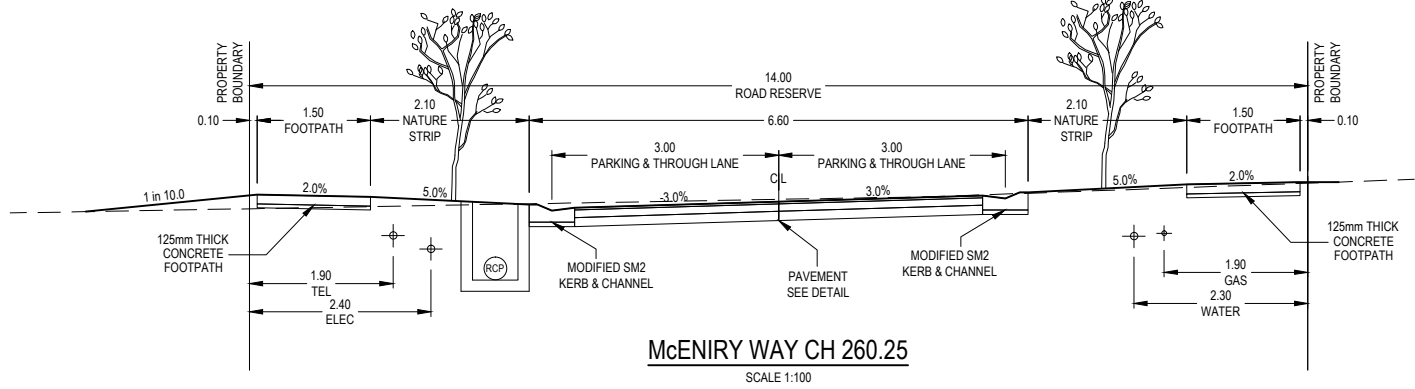
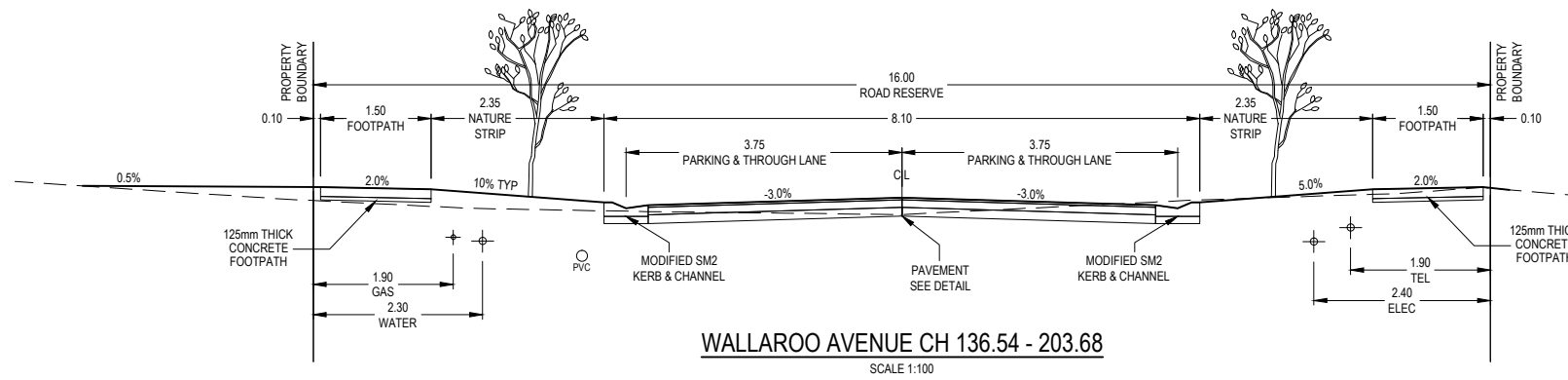
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"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 INTERSECTION DETAIL PLANS (SHEET 2 OF 2)

Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012
 SHT 8 of 39 REV J
 Drawing No.
 1065305R08

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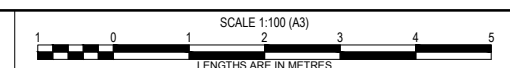


APPROVED FOR CONSTRUCTION

J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY	NJB	NJB	NJB	22/08/14
REV	DES	DWG	CHK	DATE	

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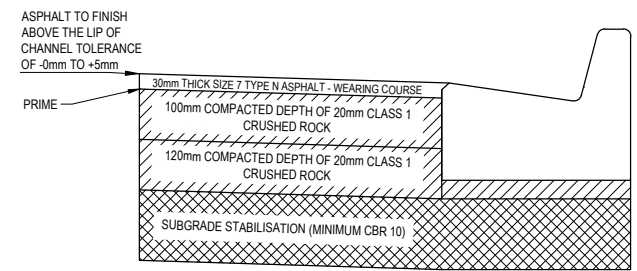
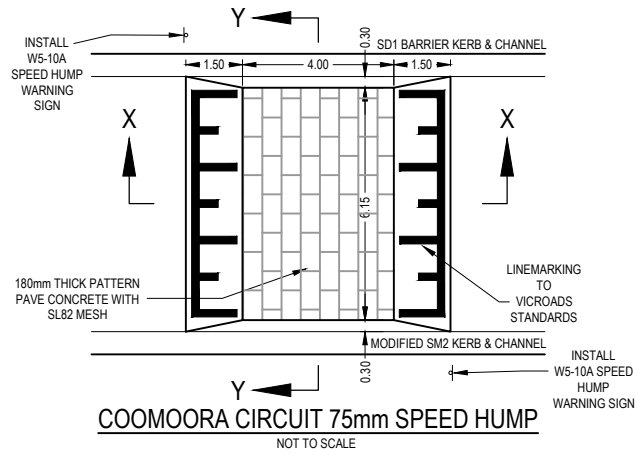
Principal STRATHFIELDSAYE HOLDINGS PTY LTD



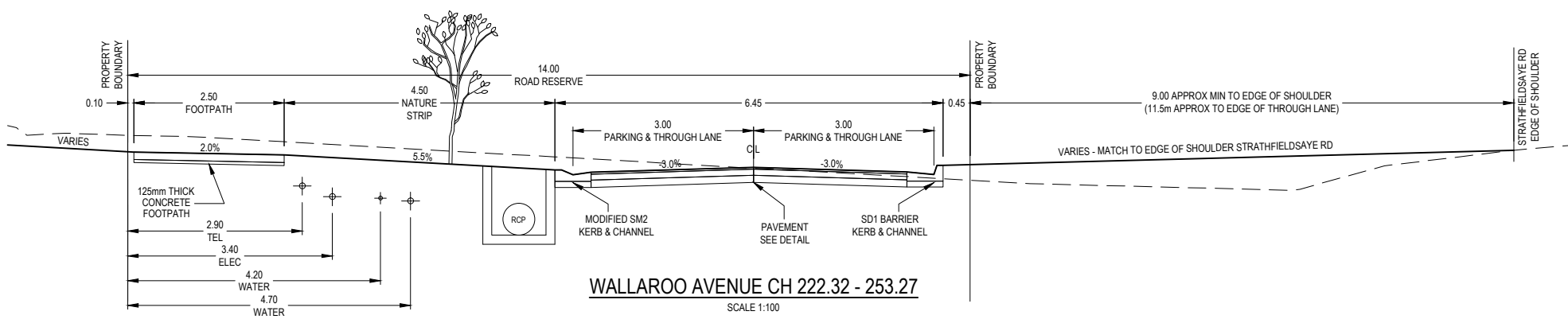
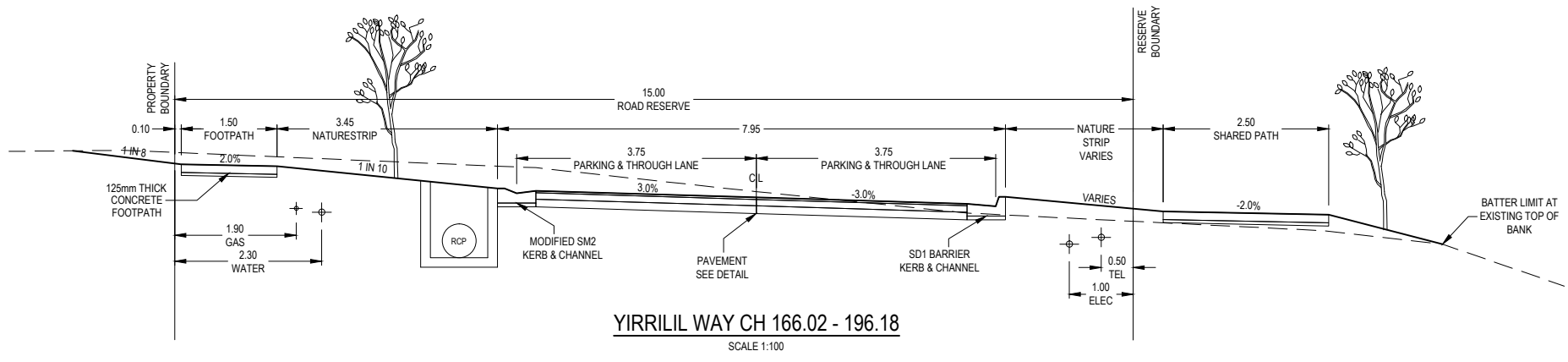
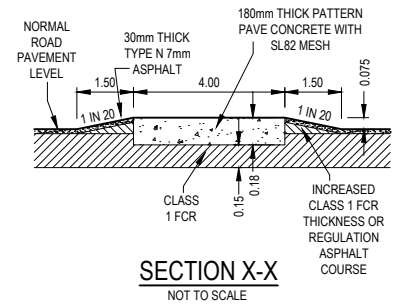
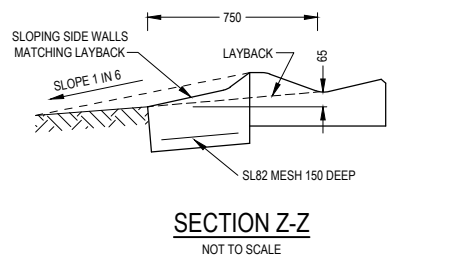
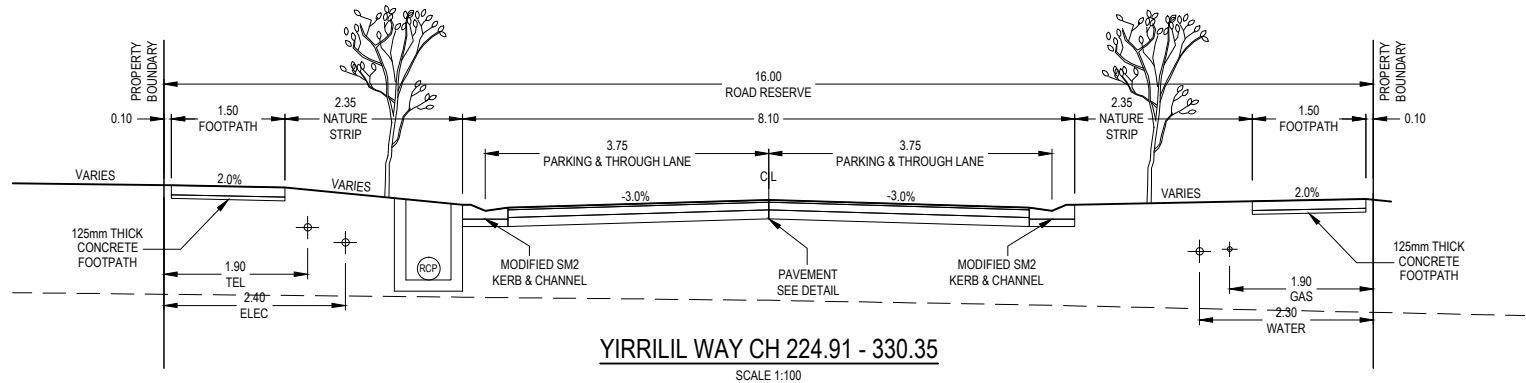
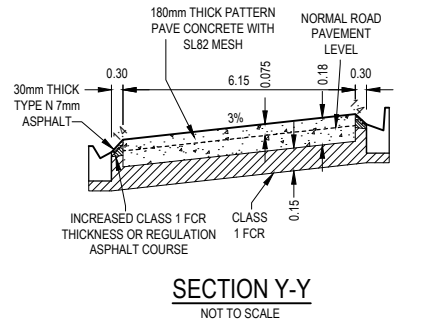
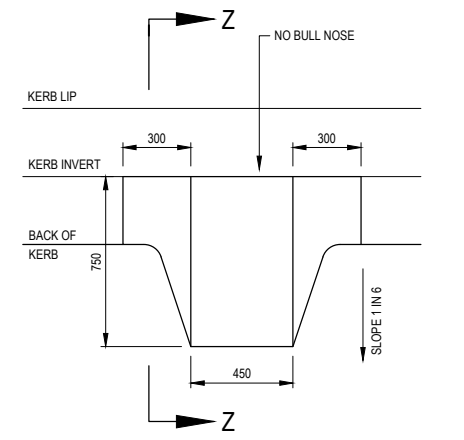
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 ROAD TYPICAL DETAILS (SHEET 1 OF 2)

Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012
 SHT 9 of 39 REV J
 Drawing No.
 1065305R09

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- PAVEMENT NOTES:**
1. PAVEMENT DEPTHS MAY BE VARIED, AS DIRECTED BY SUPERINTENDANT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUB GRADE IS IN QUESTION, FURTHER TESTING TO BE CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
 2. 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.
 3. PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
 4. PAVEMENT TO BE COMPACTED TO 98% MINIMUM MODIFIED DRY DENSITY

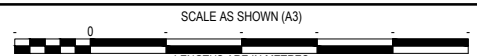


APPROVED FOR CONSTRUCTION

REV	DES	DWG	CHK	DATE	REVISION
J				03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
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D				22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY

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"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 ROAD TYPICAL DETAILS (SHEET 2 OF 2)

Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012
 SHT 10 of 39 REV J
 Drawing No.
 1065305R10

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LEVELS TABLE		
MIN. LEVEL	MAX. LEVEL	COLOUR
-0.78	-0.60	Red
-0.60	-0.30	Orange
-0.30	-0.01	Yellow
0.01	0.30	Green
0.30	0.60	Light Green
0.60	0.83	Dark Green

GRADING LEGEND
 DENOTES DIRECTION OF FALL AT MIN 1 IN 200
 CUT CATCH DRAINS AS REQUIRED

NOTE: -VE DENOTES CUT +VE DENOTES FILL

APPROVED FOR CONSTRUCTION

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REV	DES	DWG	CHK	DATE	REVISION
J	NJB	NJB	NJB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
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D	NJB	NJB	NJB	22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILL WAY

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SCALE 1:1,250 (A3)
 12.5 0 12.5 25 37.5 50 62.5
 LENGTHS ARE IN METRES

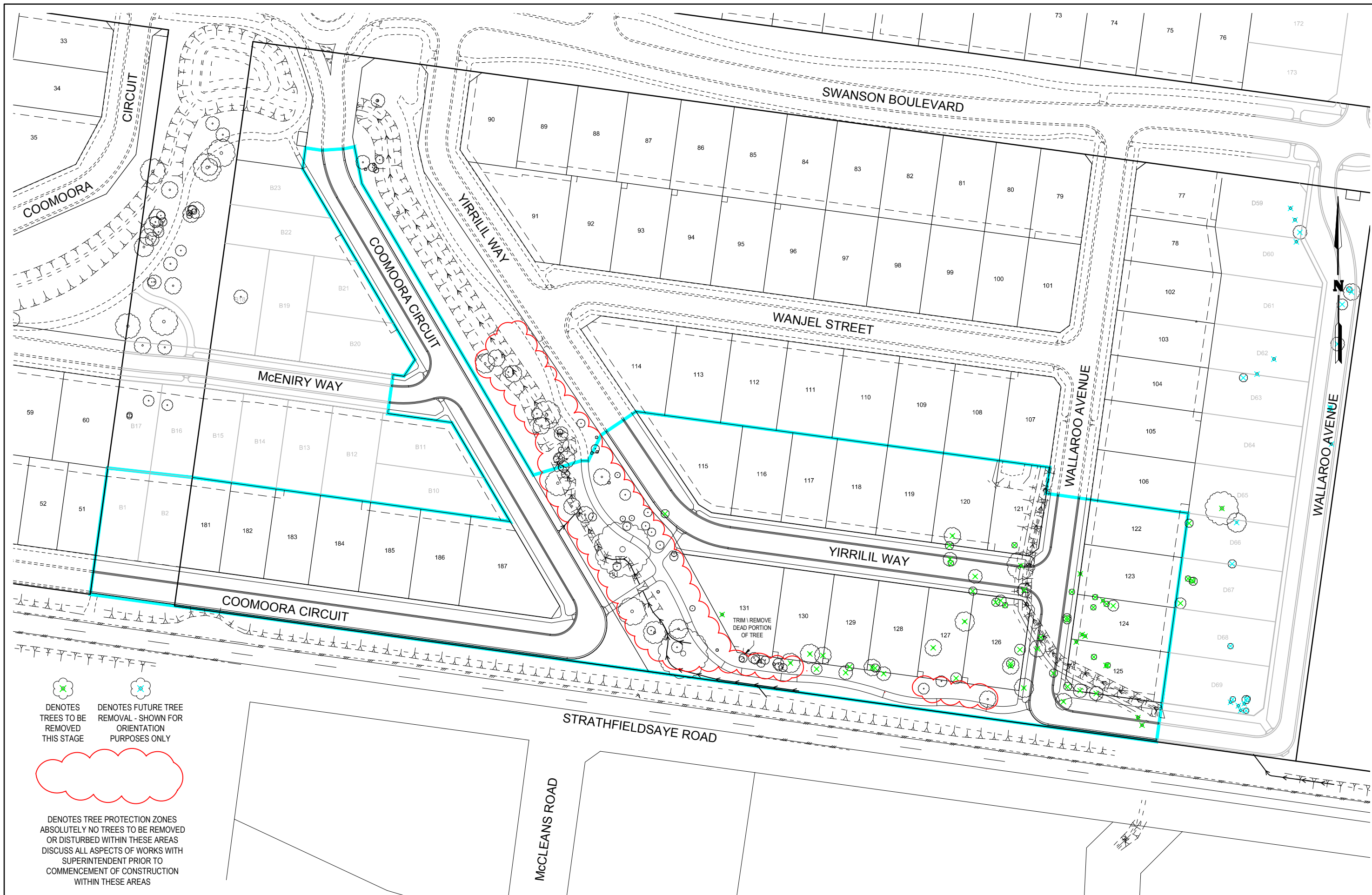
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 EARTHWORKS PLAN



Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012

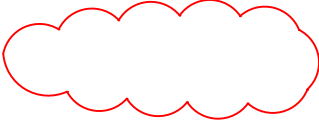
SHT 11 of 39 REV J

Drawing No.
 1065305R11

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 DENOTES TREES TO BE REMOVED THIS STAGE
 DENOTES FUTURE TREE REMOVAL - SHOWN FOR ORIENTATION PURPOSES ONLY

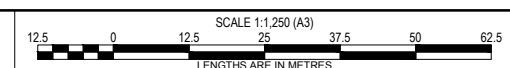
 DENOTES TREE PROTECTION ZONES ABSOLUTELY NO TREES TO BE REMOVED OR DISTURBED WITHIN THESE AREAS DISCUSS ALL ASPECTS OF WORKS WITH SUPERINTENDENT PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN THESE AREAS

APPROVED FOR CONSTRUCTION

J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
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D	CORRECTED ELECTRICAL CONDUITS IN YIRRIL WAY	NJB	NJB	NJB	22/08/14
REV		DES	DWG	CHK	DATE


Tomkinson Group
 PROJECT MANAGERS DEVELOPMENT PLANNERS ISO 9001:2008
 LICENSED SURVEYORS CIVIL ENGINEERS FS520488
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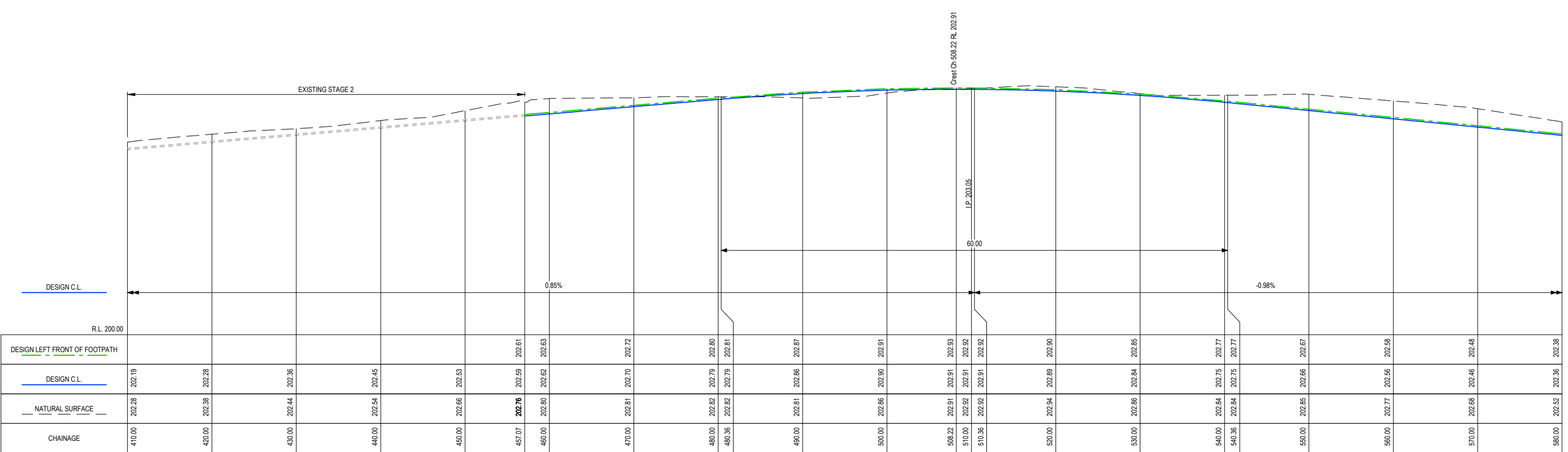
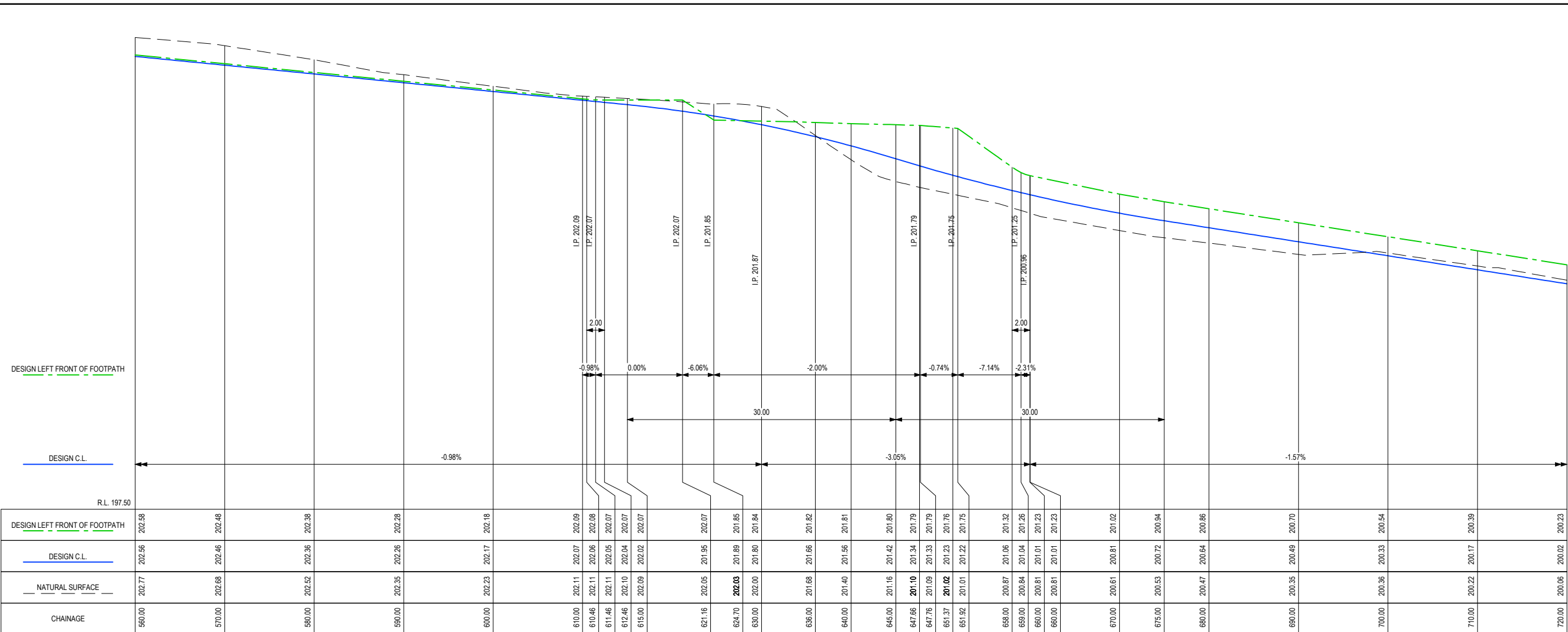
Principal STRATHFIELDSAYE HOLDINGS PTY LTD



"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 TREE REMOVAL PLAN

Municipality & Ref:
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 PP DS/791/2012
 SHT 12 of 39 REV J
 Drawing No.
 1065305R12

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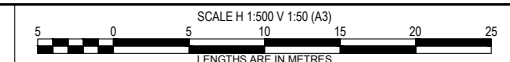


APPROVED FOR CONSTRUCTION

REV	DES	DWG	CHK	DATE	REVISION
J	NJB	NJB	NJB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
I	NJB	NJB	NJB	26/05/15	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN
H	NJB	NJB	NJB	06/05/15	ADDED STREET TREES
G	NJB	NJB	NJB	10/04/15	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE
F	NJB	NJB	NJB	07/04/15	MINOR AMENDS AT CLIENT REQUEST
E	NJB	NJB	NJB	02/04/15	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS
D	NJB	NJB	NJB	22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILL WAY

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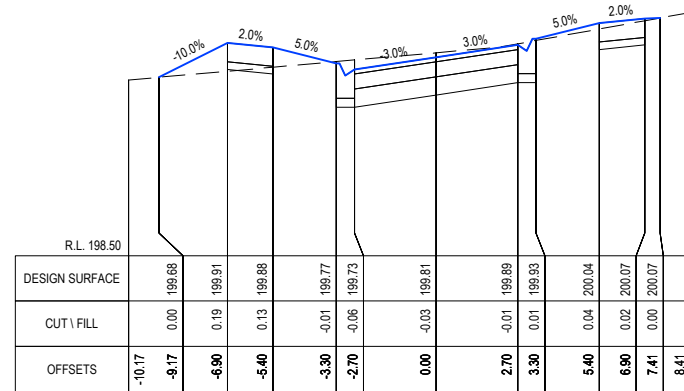
Principal STRATHFIELDSAYE HOLDINGS
PTY LTD



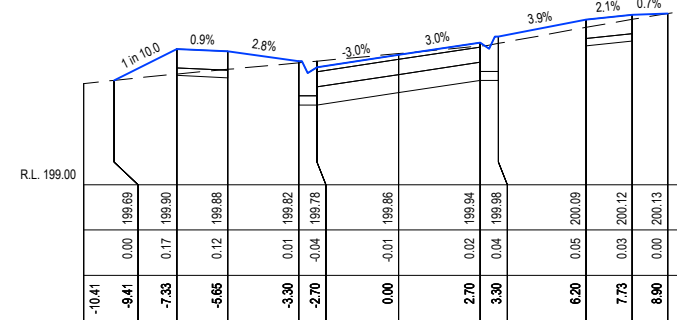
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 COOMOORA CIRCUIT LONG SECTIONS (SHEET 1 OF 2)

Municipality & Ref:
CITY OF
GREATER BENDIGO
PP DS/791/2012
SHT 13 of 39 REV J
Drawing No.
1065305R13

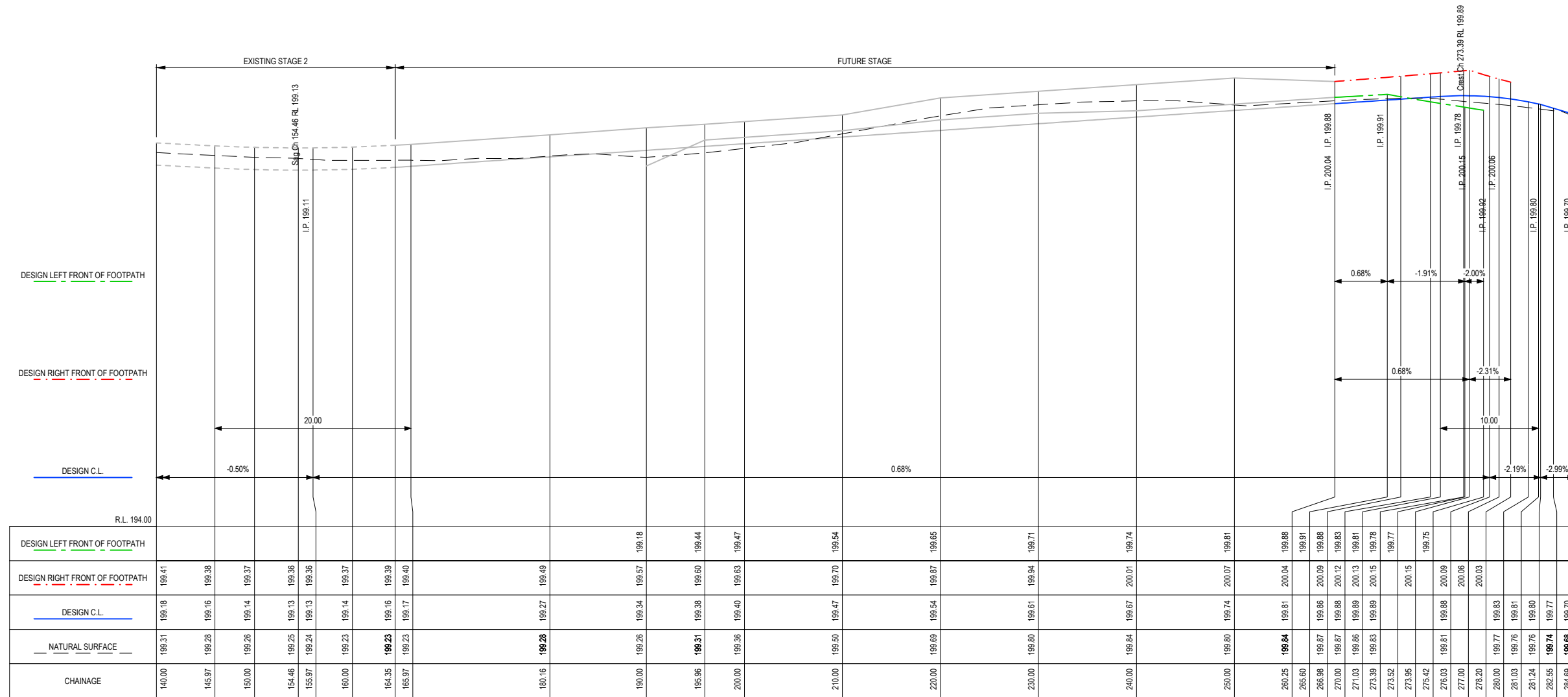
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CH 260.25



CH 266.98

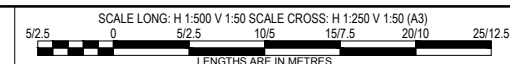


APPROVED FOR CONSTRUCTION

J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY	NJB	NJB	NJB	22/08/14
REV	REVISION	DES	DWG	CHK	DATE

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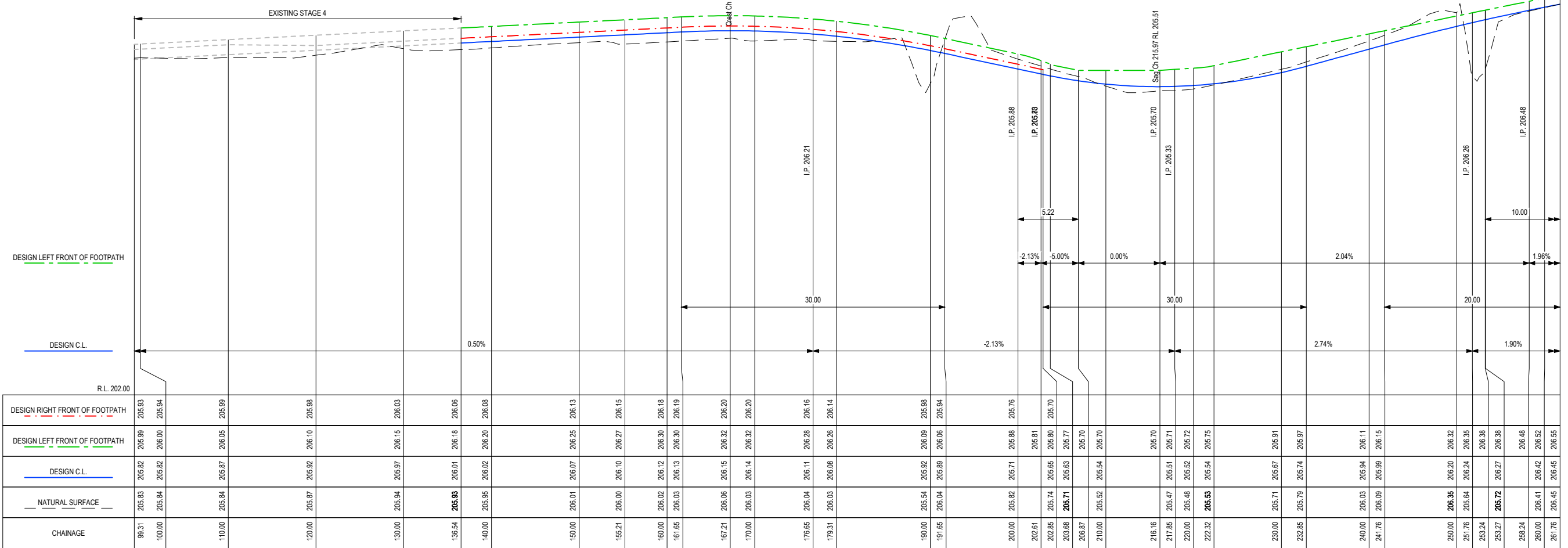
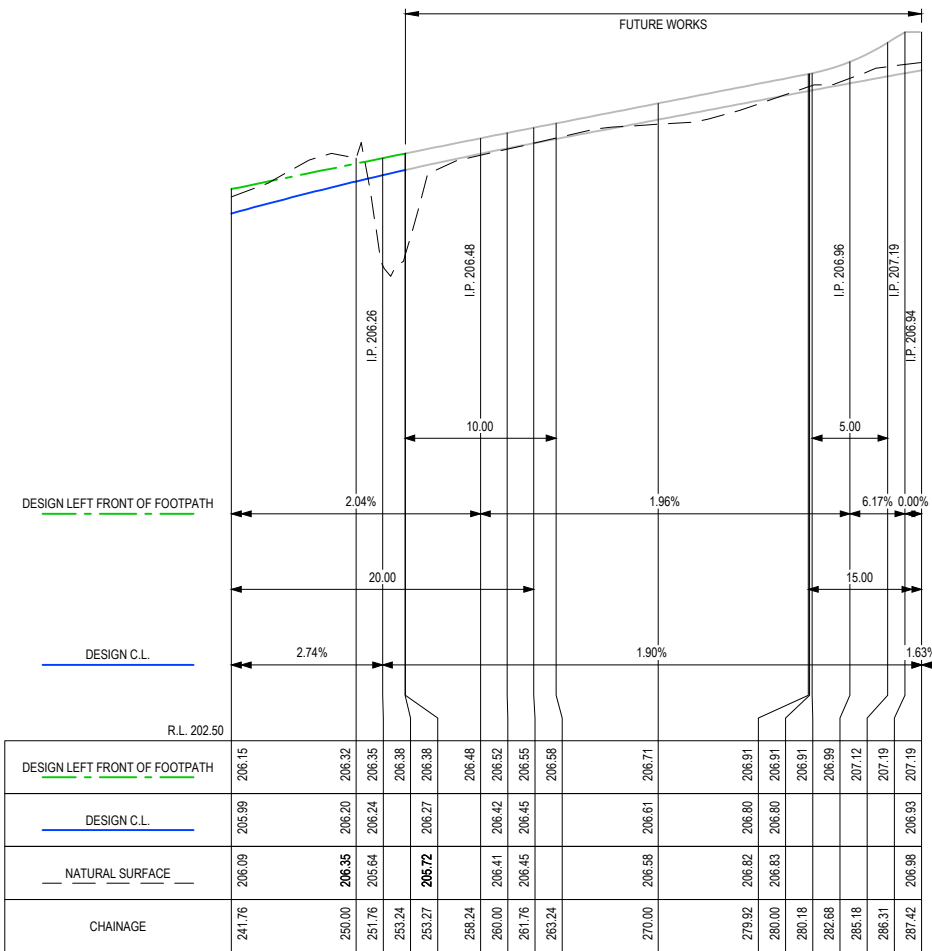
Principal STRATHFIELDSAYE HOLDINGS
 PTY LTD



"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 McENIRY WAY LONG & CROSS SECTIONS

Municipality & Ref:
 CITY OF
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 PP DS/791/2012
 SHT 19 of 39 REV J
 Drawing No.
 1065305R19

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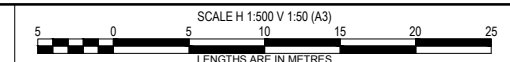


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REV	DWG	CHK	DATE	REVISION
J	NJB	NJB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
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F	NJB	NJB	07/04/15	MINOR AMENDS AT CLIENT REQUEST
E	NJB	NJB	02/04/15	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS
D	NJB	NJB	22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILL WAY

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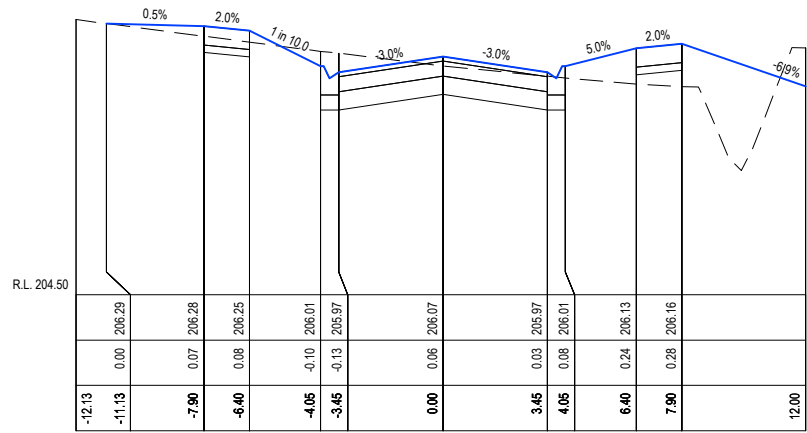
Principal STRATHFIELDSAYE HOLDINGS PTY LTD



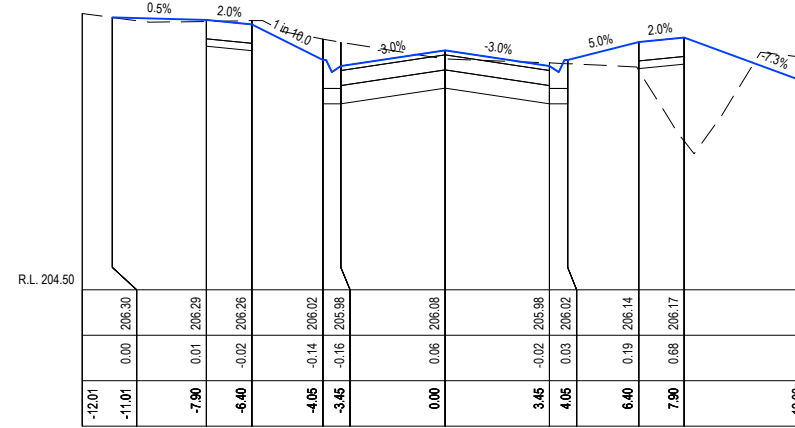
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 WALLAROO AVENUE LONG SECTIONS

Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012
 SHT 24 of 39 REV J
 Drawing No. 1065305R24

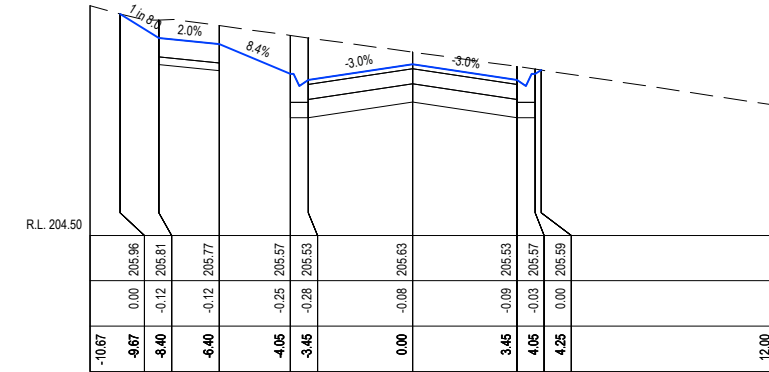
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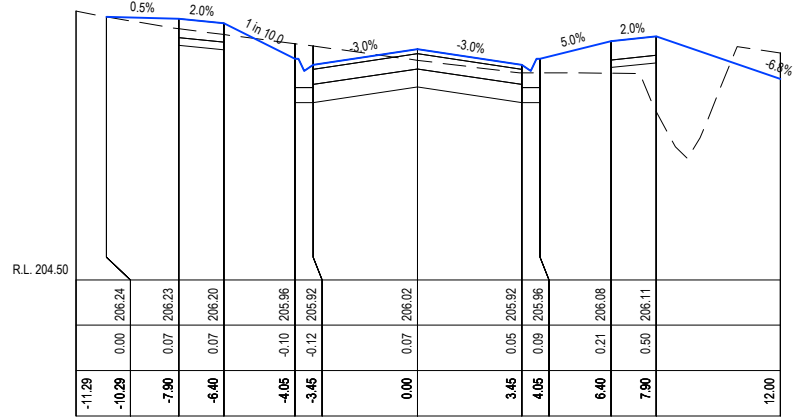
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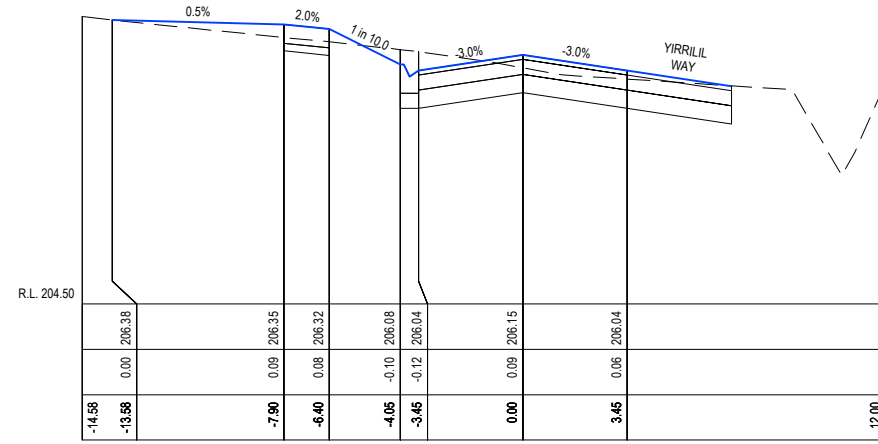
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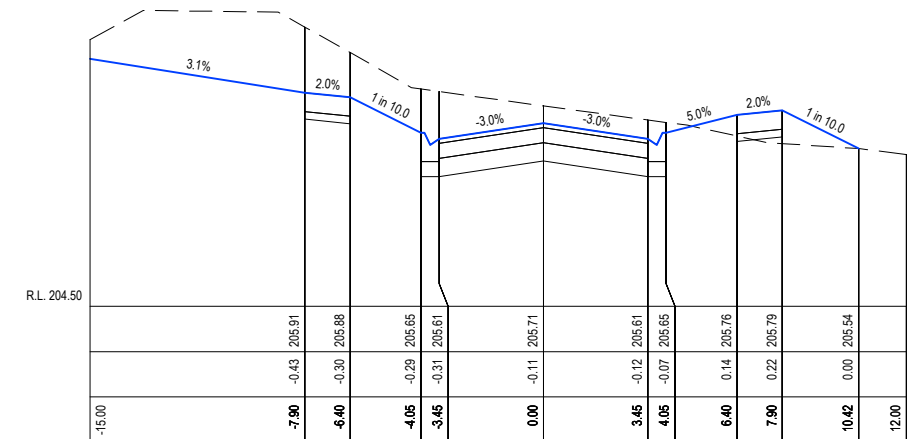
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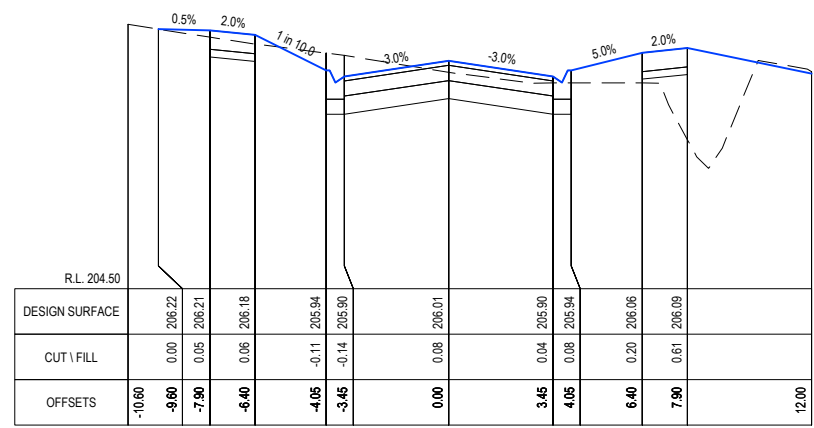
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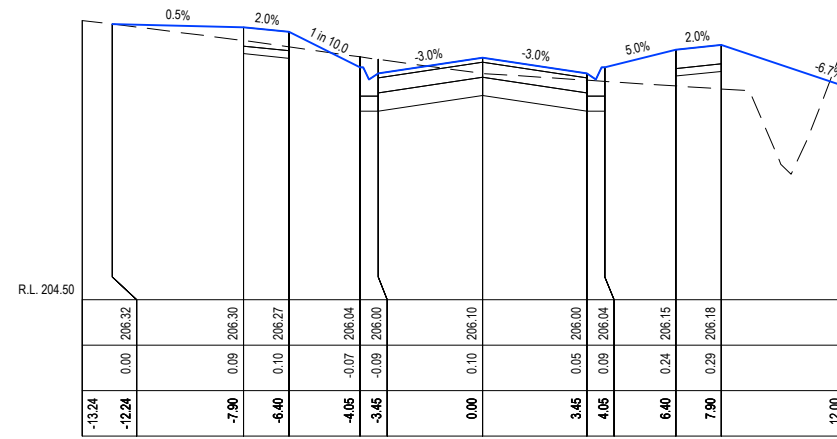
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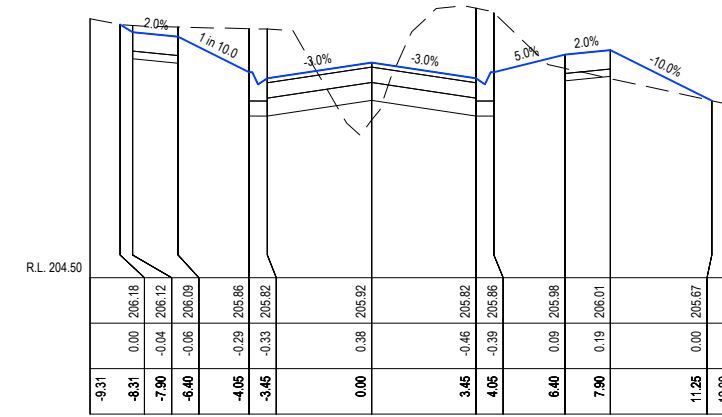
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CH 136.54



CH 155.21



CH 190.00

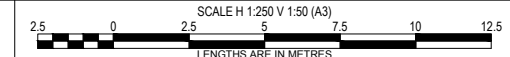
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F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
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D	CORRECTED ELECTRICAL CONDUITS IN YIRRILL WAY	NJB	NJB	NJB	22/08/14
REV	DWG	CHK	DATE		

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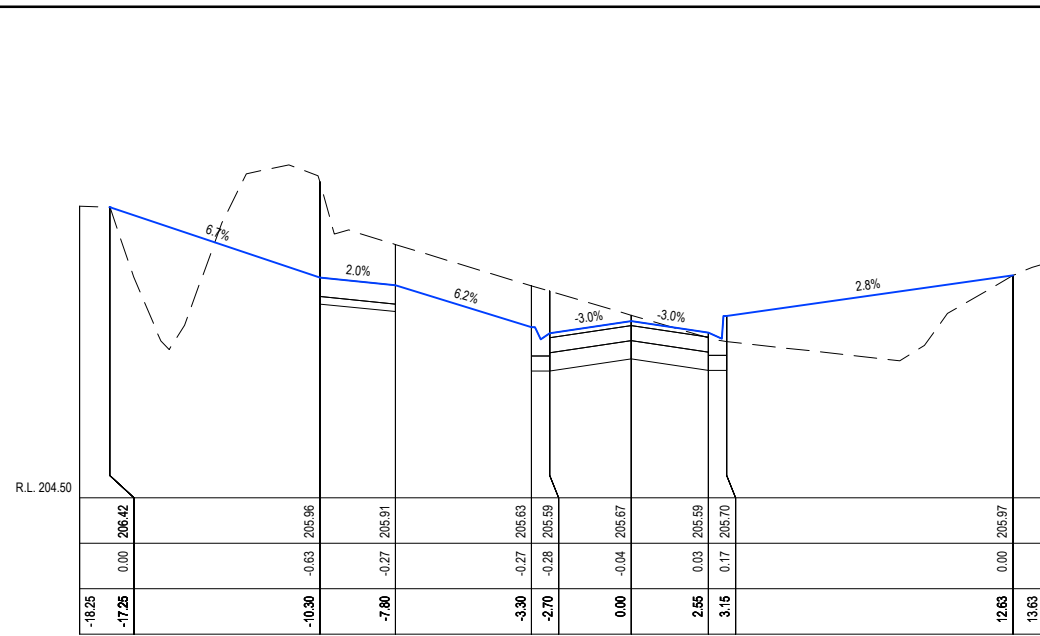
Principal STRATHFIELDSAYE HOLDINGS PTY LTD



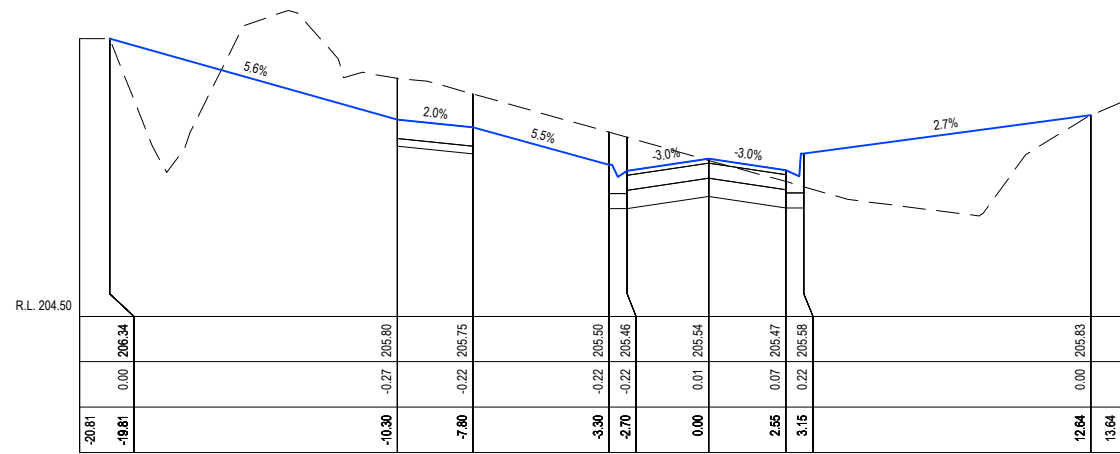
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 WALLAROO AVENUE CROSS SECTIONS (SHEET 1 OF 2)

Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012
 SHT 25 of 39 REV J
 Drawing No. 1065305R25

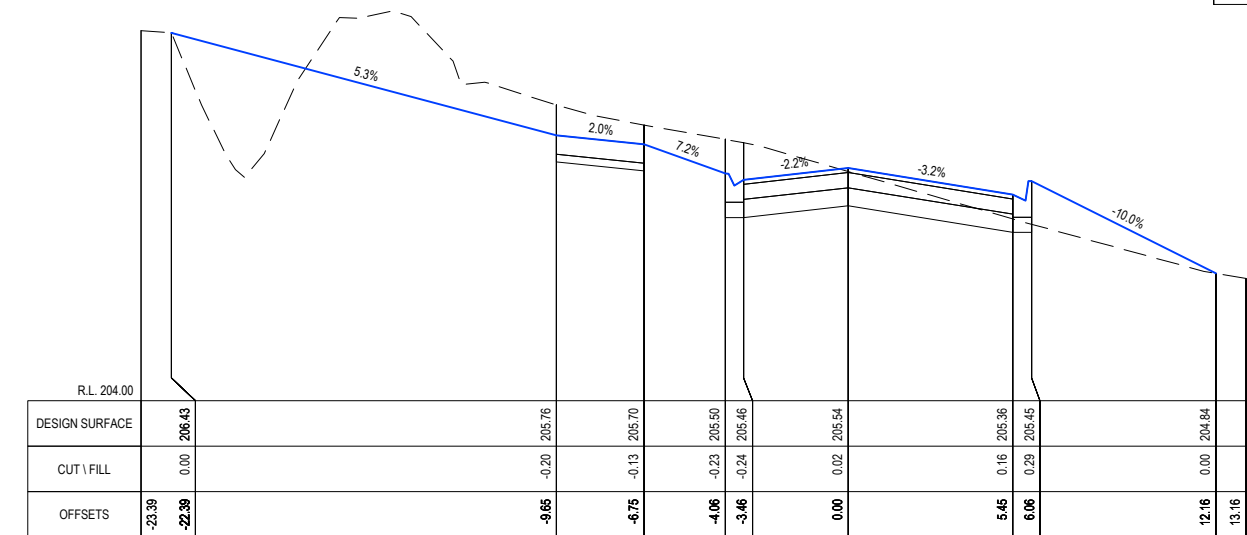
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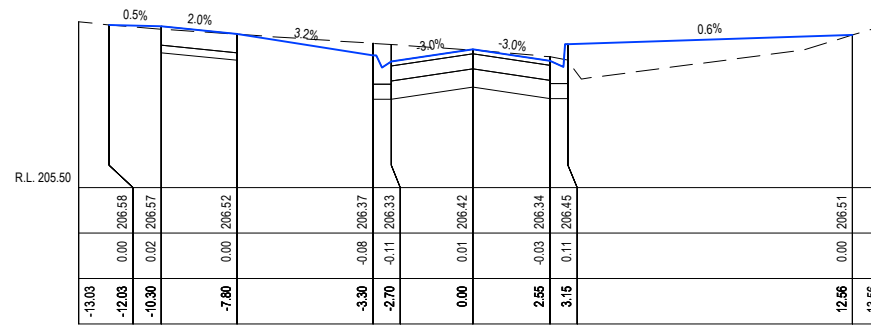
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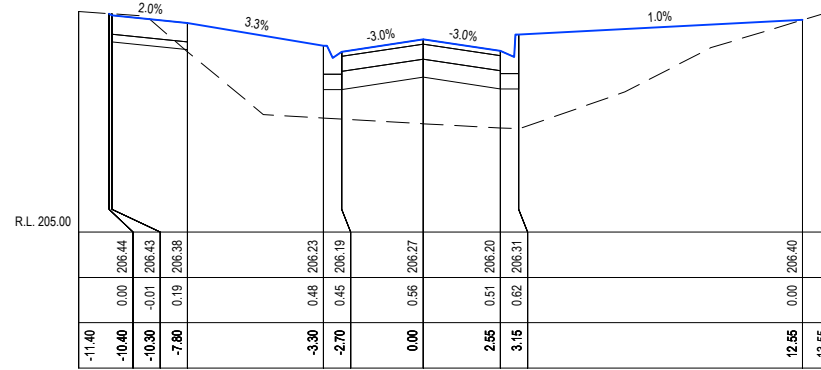
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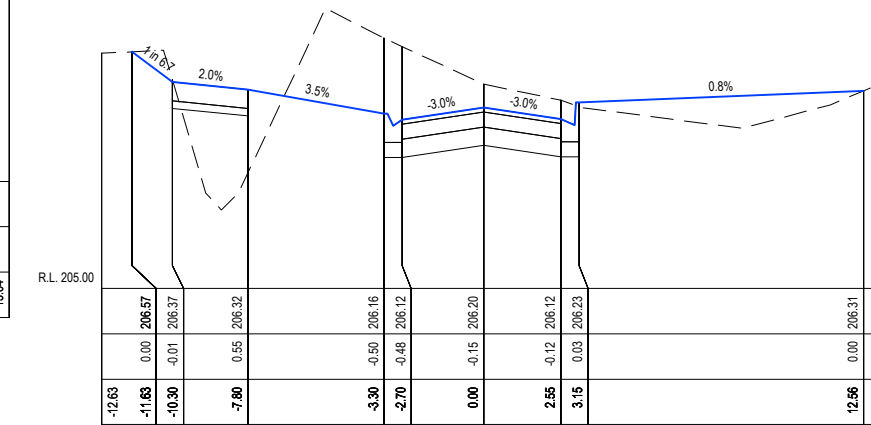
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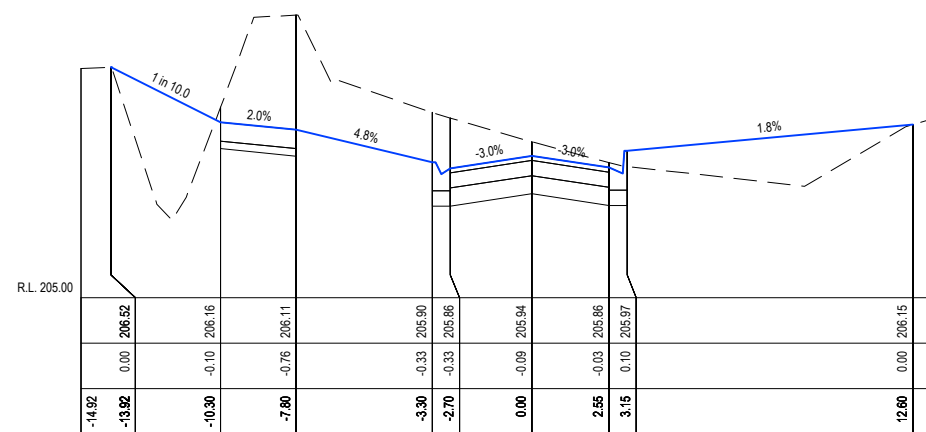
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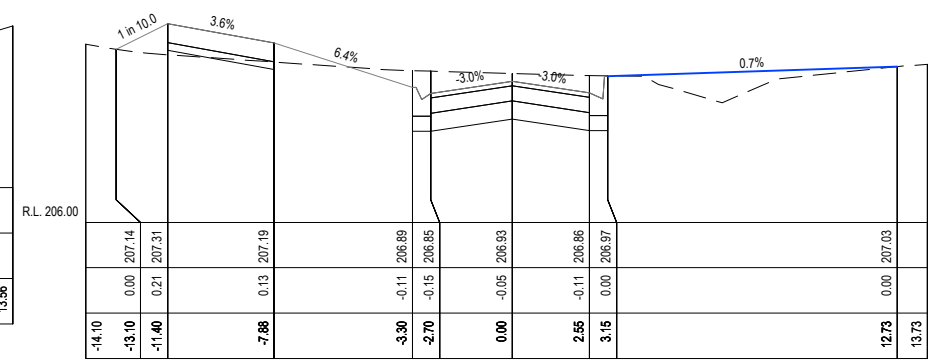
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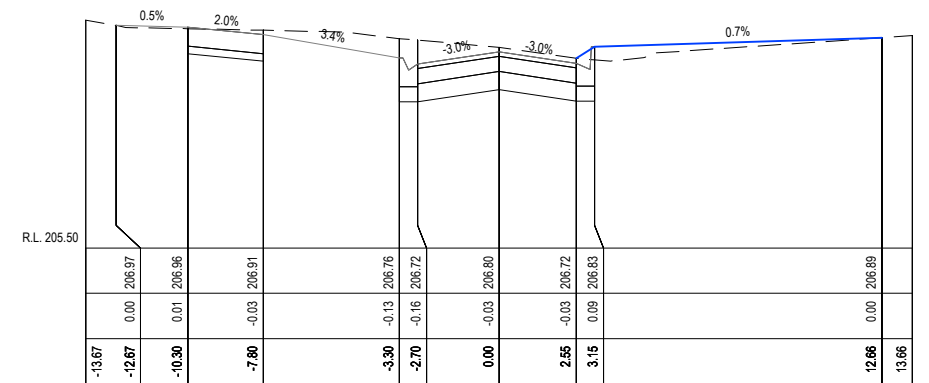
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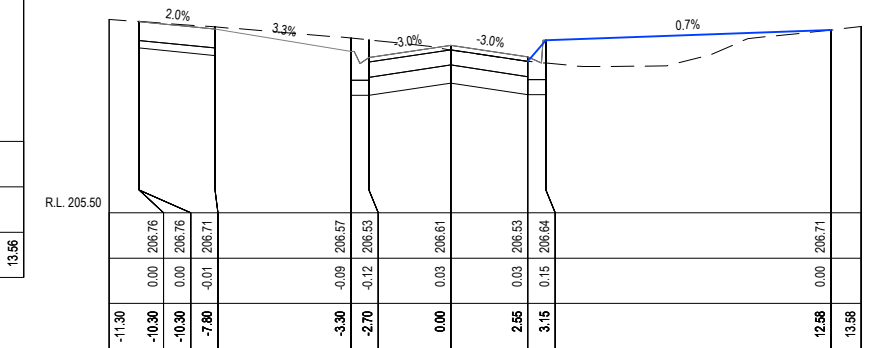
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CH 287.42



CH 280.00



CH 270.00

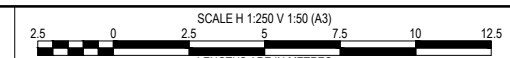
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D	CORRECTED ELECTRICAL CONDUITS IN YIRRILL WAY	NJB	NJB	NJB	22/08/14
REV	REVISION	DES	DWG	CHK	DATE

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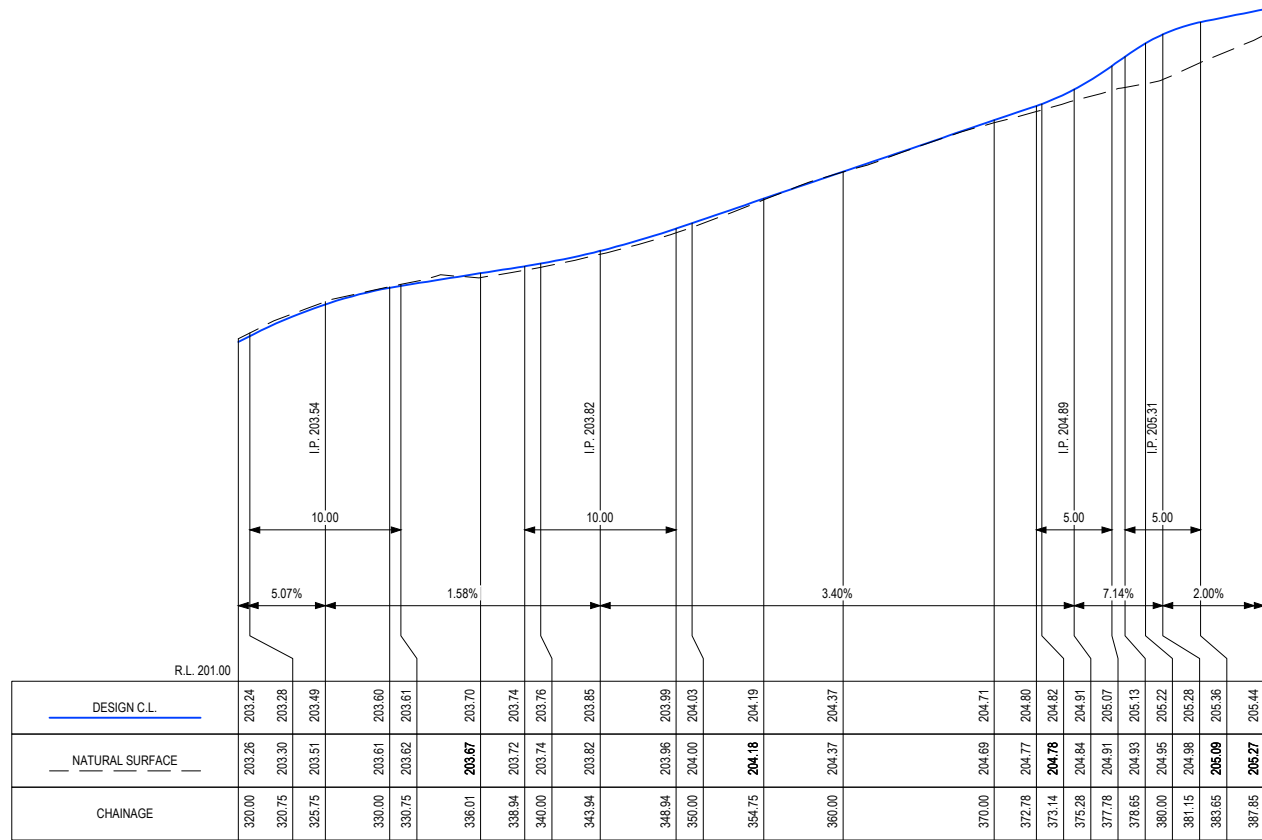
Principal STRATHFIELDSAYE HOLDINGS PTY LTD



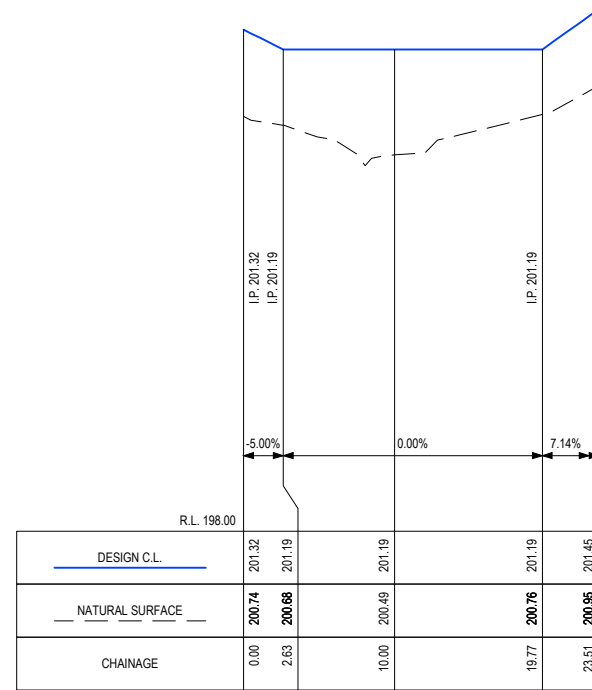
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 WALLAROO AVENUE CROSS SECTIONS (SHEET 2 OF 2)

Municipality & Ref: CITY OF GREATER BENDIGO PP DS/791/2012
 SHT 26 of 39 REV J
 Drawing No. 1065305R26

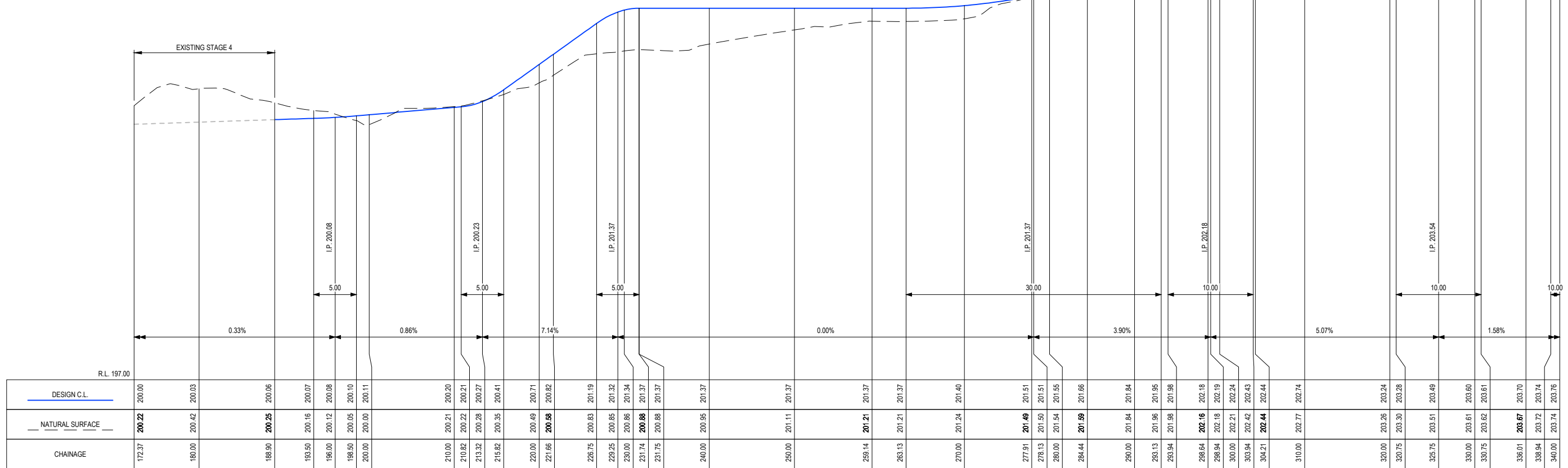
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PRIMARY SHARED PATH



BOARDWALK CONNECTOR



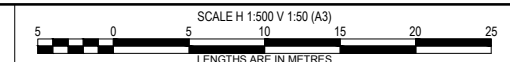
PRIMARY SHARED PATH

APPROVED FOR CONSTRUCTION

REV	DES	DWG	CHK	DATE	REVISION
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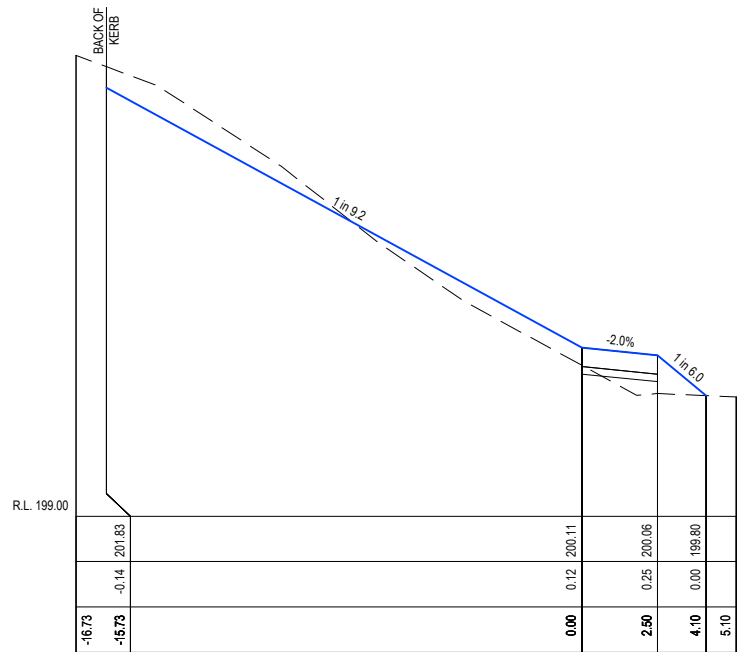
Principal STRATHFIELDSAYE HOLDINGS
PTY LTD



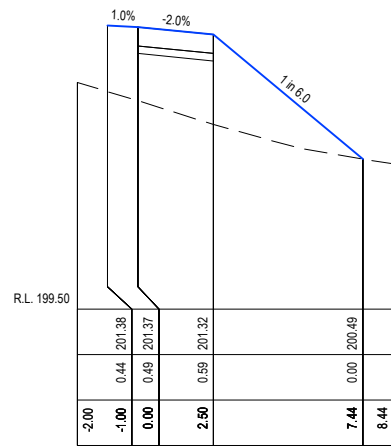
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 RESERVE SHARED PATH LONG SECTIONS

Municipality & Ref:
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GREATER BENDIGO
PP DS/791/2012
SHT 27 of 39 REV J
Drawing No.
1065305R27

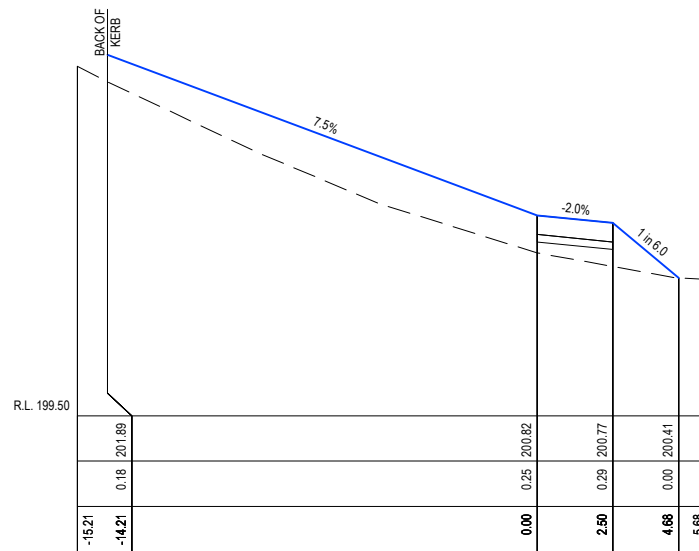
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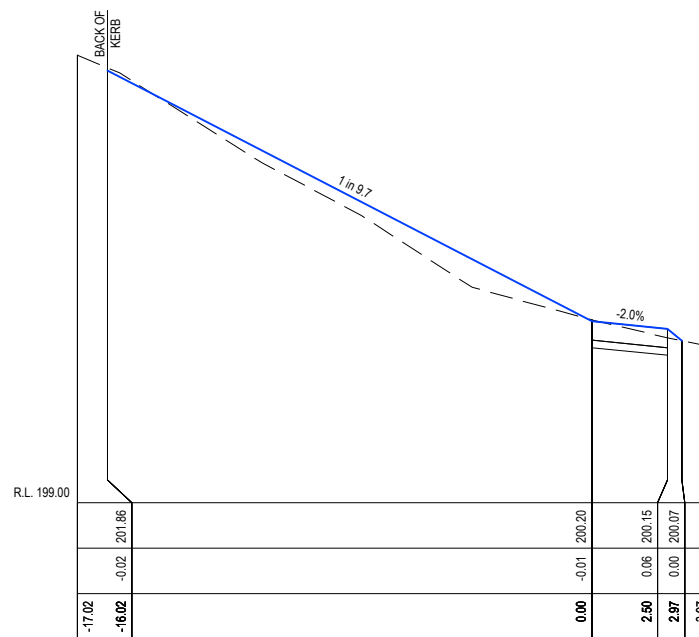
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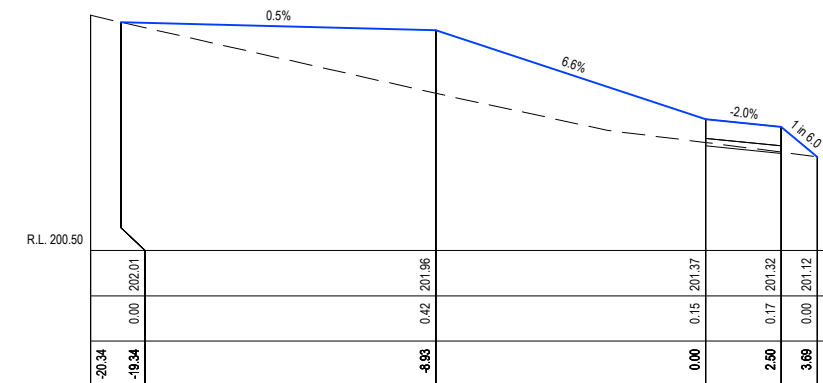
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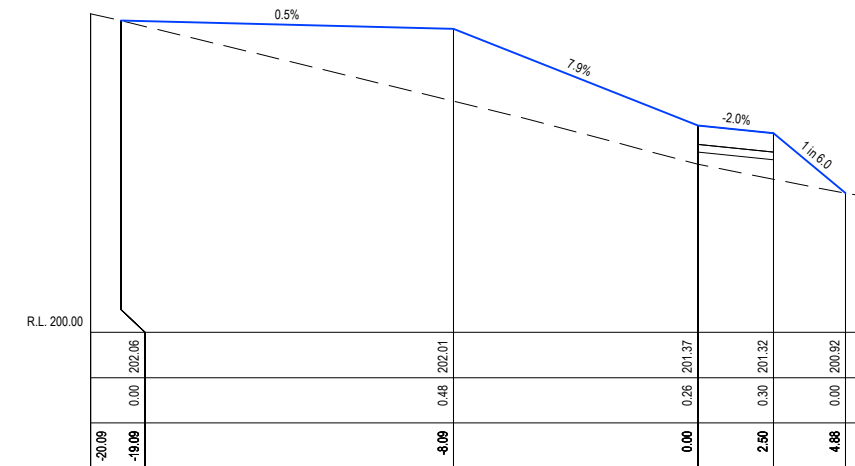
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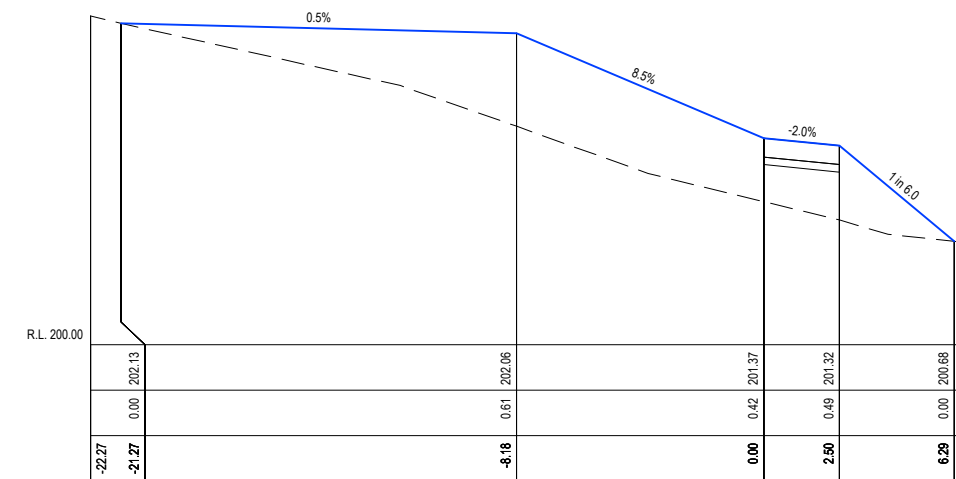
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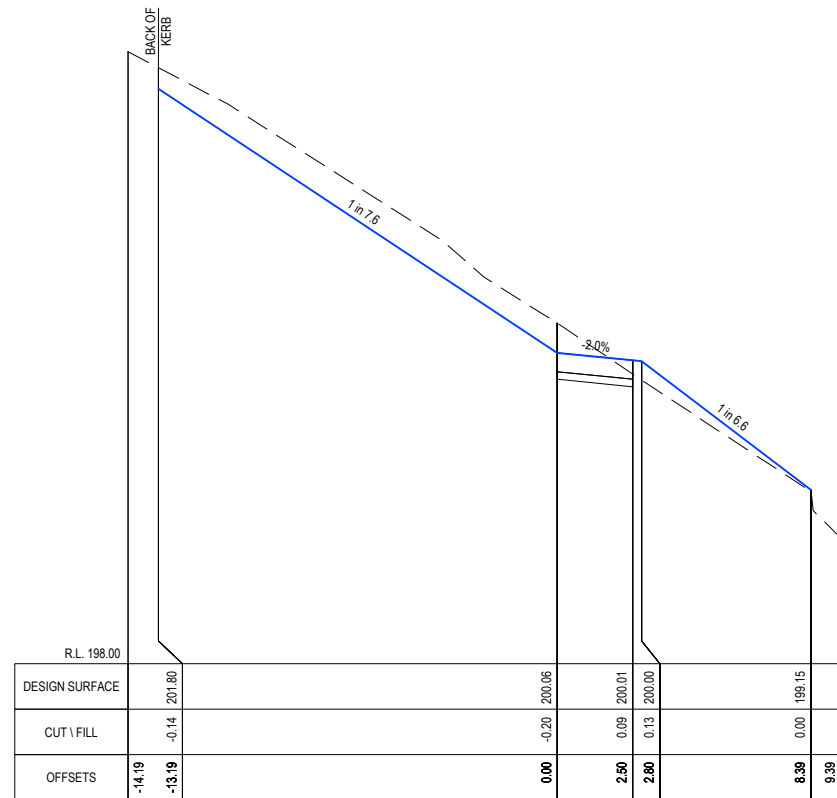
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CH 240.00



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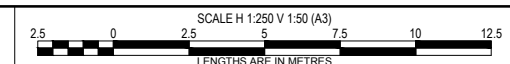
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REV	DES	DWG	CHK	DATE	REVISION
J	NJB	NJB	NJB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
I	NJB	NJB	NJB	26/05/15	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN
H	NJB	NJB	NJB	06/05/15	ADDED STREET TREES
G	NJB	NJB	NJB	10/04/15	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE
F	NJB	NJB	NJB	07/04/15	MINOR AMENDS AT CLIENT REQUEST
E	NJB	NJB	NJB	02/04/15	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS
D	NJB	NJB	NJB	22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY

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 LICENSED SURVEYORS CIVIL ENGINEERS
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 PO BOX 421, BENDIGO 3552 57 MYERS STREET, BENDIGO 3550
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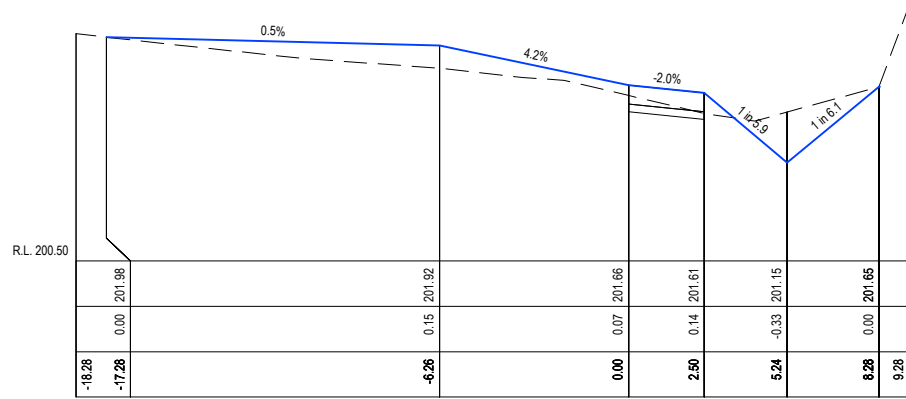
Principal STRATHFIELDSAYE HOLDINGS PTY LTD



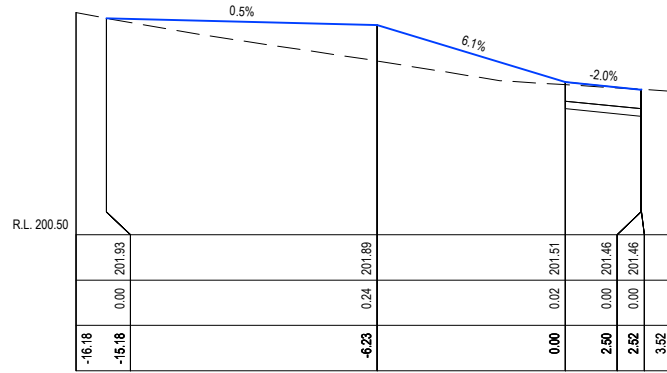
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 RESERVE SHARED CROSS SECTIONS (SHEET 1 OF 2)

Municipality & Ref: CITY OF GREATER BENDIGO PP DS/791/2012
 SHT 28 of 39 REV J
 Drawing No. 1065305R28

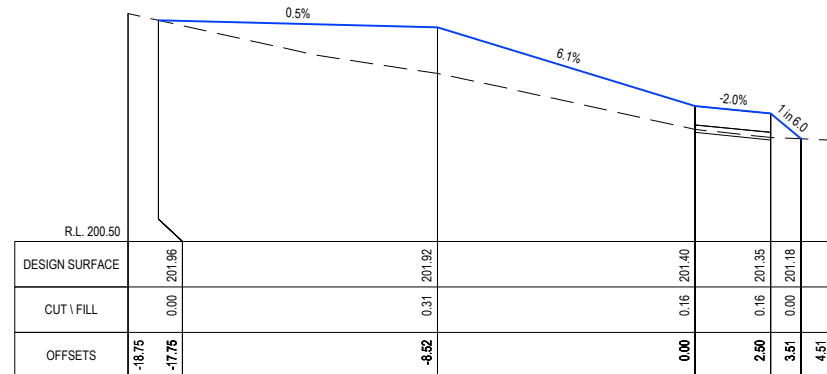
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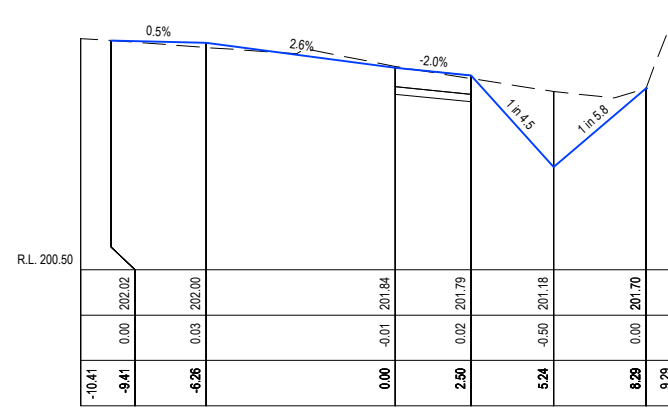
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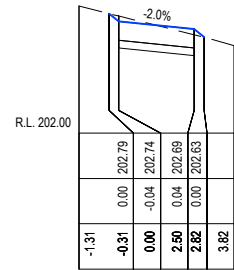
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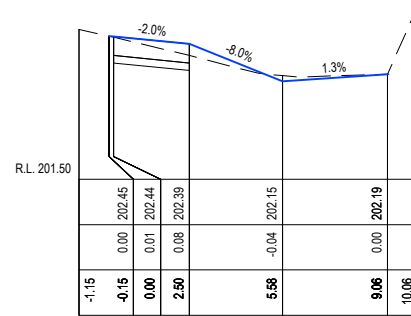
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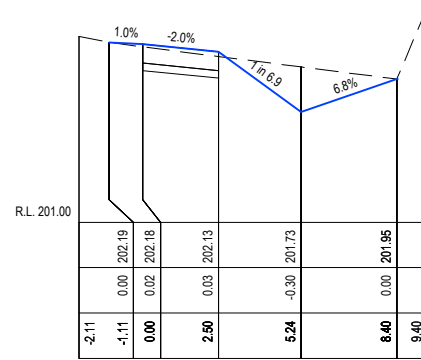
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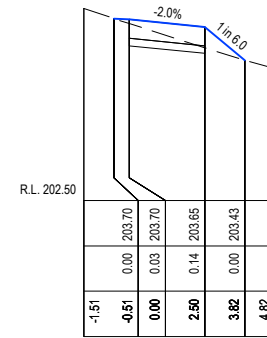
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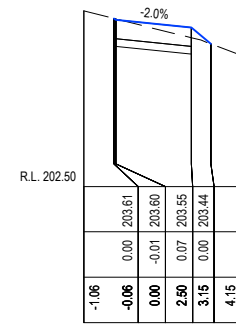
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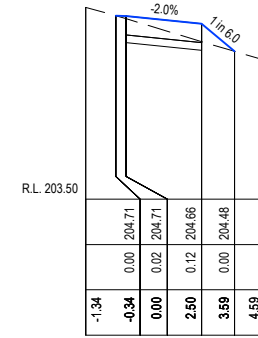
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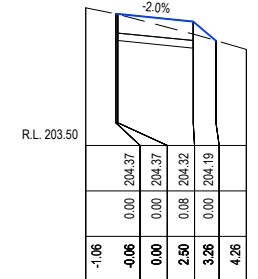
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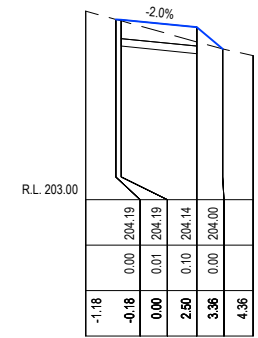
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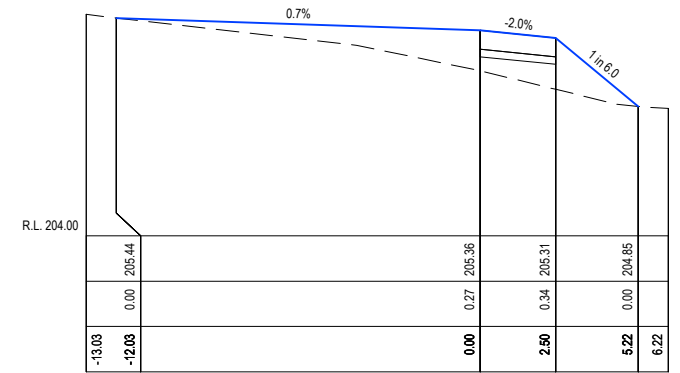
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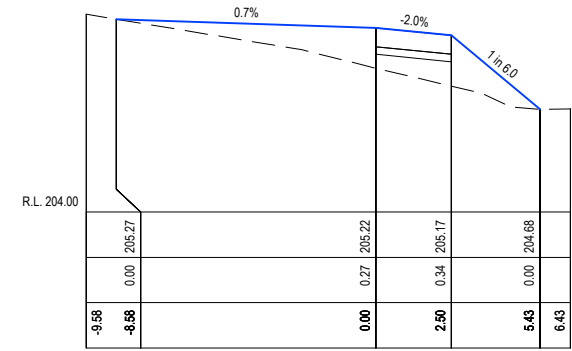
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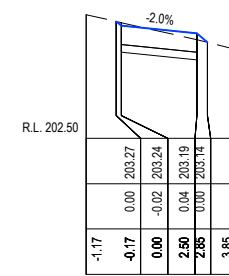
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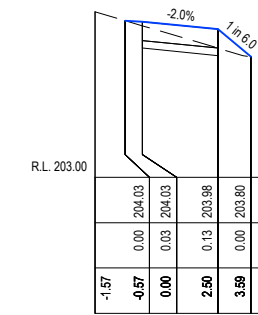
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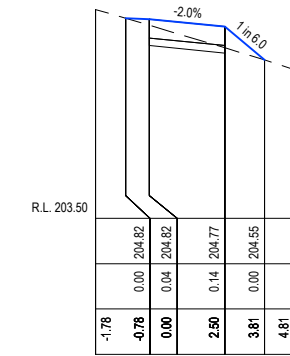
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CH 320.00



CH 350.00



CH 373.14

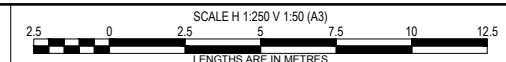
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J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	.	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILLI WAY	.	NJB	.	22/08/14
REV		DES	DWG	CHK	DATE

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Principal STRATHFIELDSAYE HOLDINGS PTY LTD



"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 RESERVE SHARED CROSS SECTIONS (SHEET 2 OF 2)

Municipality & Ref: CITY OF GREATER BENDIGO PP DS/791/2012
 SHT 29 of 39 REV J
 Drawing No. 1065305R29

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13A1

13A2

13A3

15A5

15A6

15A7

15A8

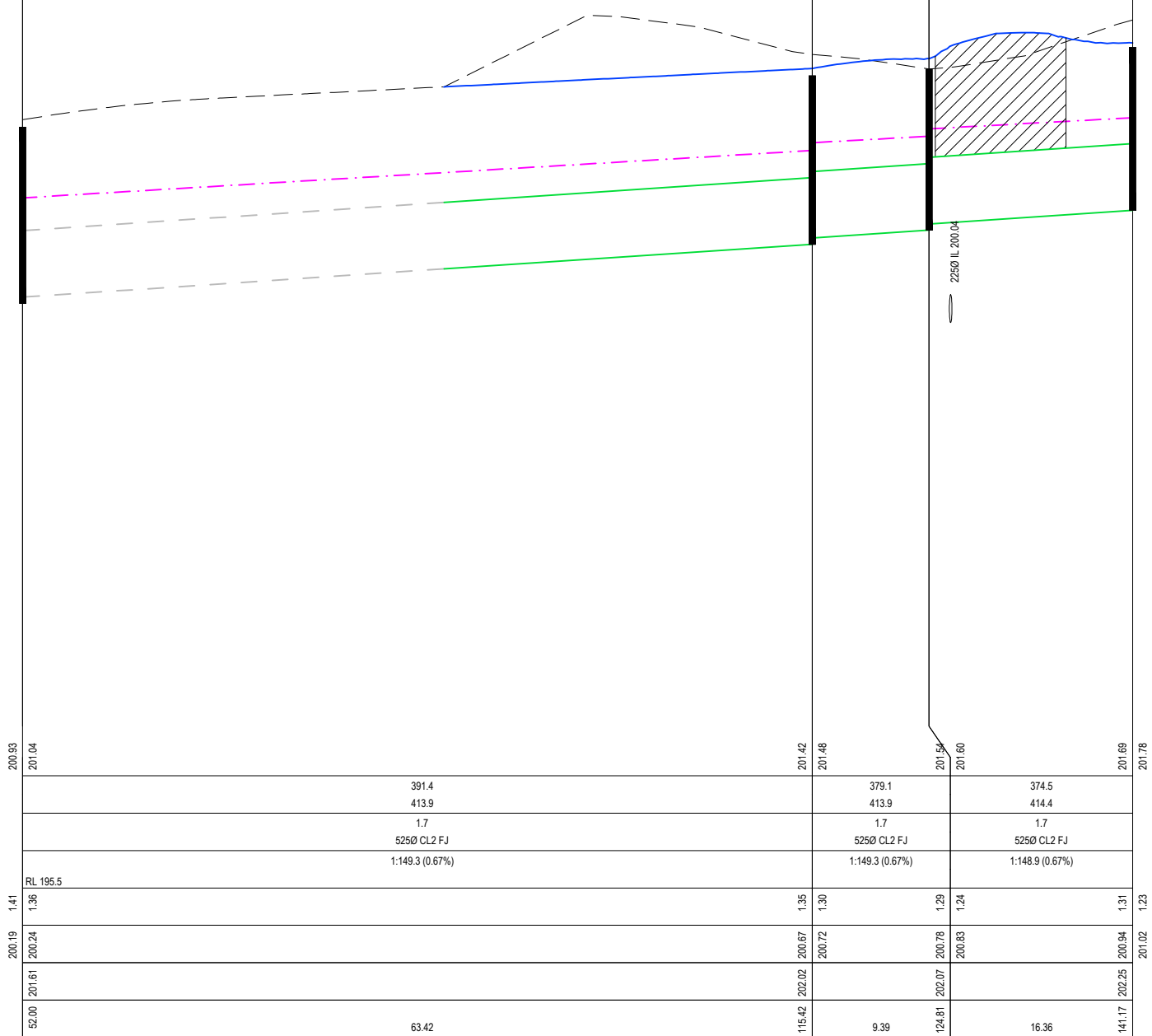
NOTE:



DENOTES 3% CEMENT STABILISED FULL DEPTH FOR BACKFILL REFER STANDARD NOTES

RCP PIPE CAN BE SUBSTITUTED FOR C7 HDPE* UNDER ROADS OR C2 HDPE* ELSEWHERE *(OR COUNCIL APPROVED EQUIVALENT)

H.G.L.	196.00	196.00	196.00	196.00
FLOW (l/s)	9.4	4.0		
CAPACITY (l/s)	90.4	131.7		
PART VELOCITY (m/s)	0.8	0.7		
PIPE DETAILS	3000 CL2 FJ	3000 CL2 FJ		
PIPE GRADE (SLOPE)	1:150.0 (0.67%)	1:71.1 (1.41%)		
DATUM RL 194.5				
DEPTH TO INVERT	0.35	1.55	1.00	0.93
INVERT LEVEL	196.90	196.96	197.52	197.65
DESIGN SURFACE	197.25	198.52		198.58
CHAINAGE	0.00	9.30	9.46	18.76



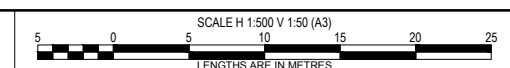
200.93	201.04	201.42	201.46	201.54	201.60	201.69	201.78
		391.4		379.1		374.5	
		413.9		413.9		414.4	
		1.7		1.7		1.7	
		5250 CL2 FJ		5250 CL2 FJ		5250 CL2 FJ	
		1:149.3 (0.67%)		1:149.3 (0.67%)		1:148.9 (0.67%)	
RL 195.5							
200.19	1.41	200.67	1.35	200.78	1.29	200.83	1.24
200.24	1.36	200.72	1.30	200.83	1.24	200.94	1.31
52.00	201.61	115.42	202.02	124.81	202.07	141.17	202.25
		63.42		9.39		16.36	

APPROVED FOR CONSTRUCTION

J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	.	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY	.	NJB	.	22/08/14
REV	REVISION	DES	DWG	CHK	DATE

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"IMAGINE ESTATE" - STAGE 5
STRATHFIELDSAYE EAST PRECINCT
DRAINAGE LONG SECTIONS (SHEET 2 OF 8)

Municipality & Ref: CITY OF GREATER BENDIGO PP DS/791/2012
SHT 32 of 39 REV J
Drawing No. 1065305R32

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15A8

15A9

15A10

15A11

15A12

15A13

15A14

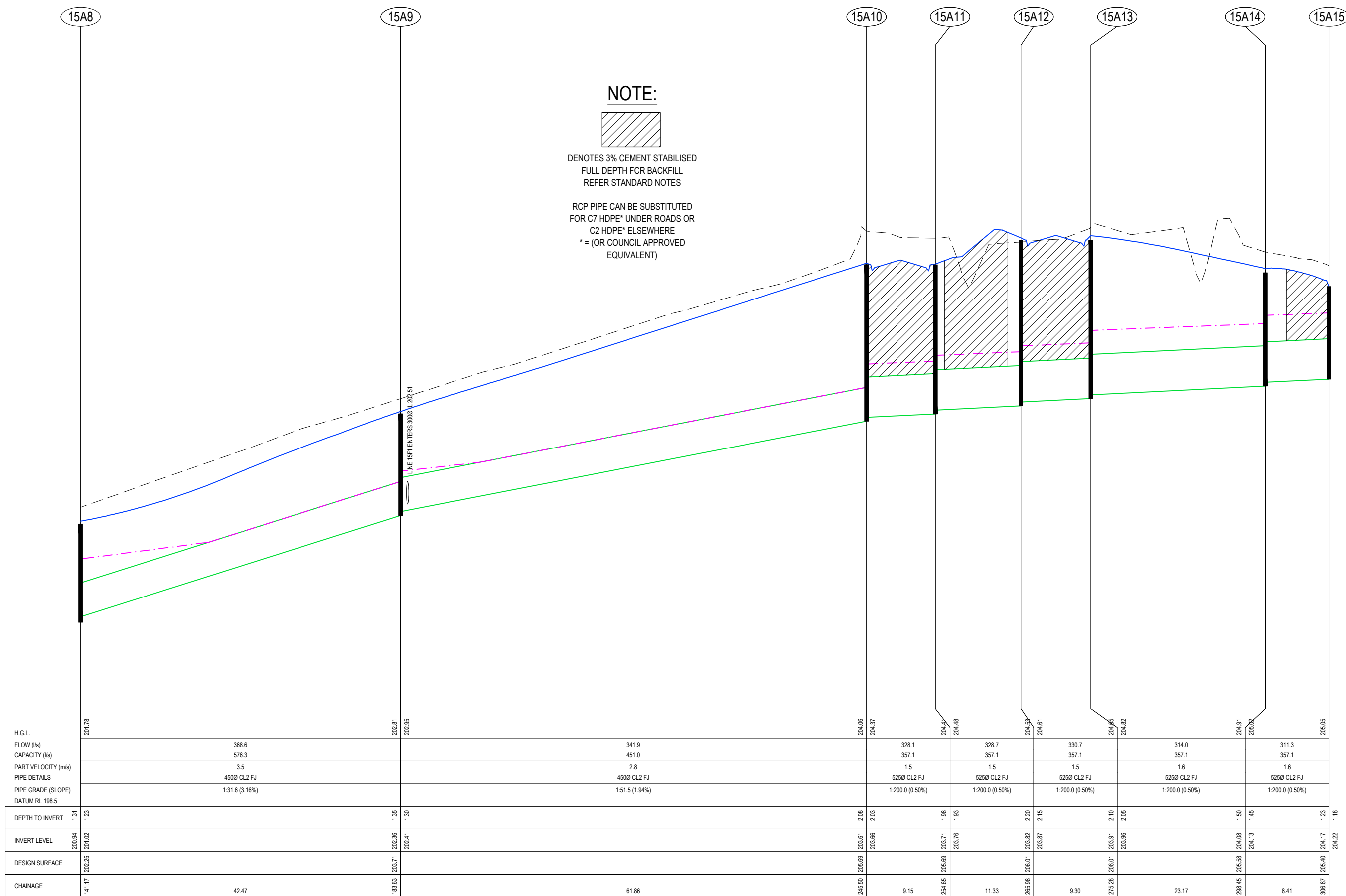
15A15

NOTE:



DENOTES 3% CEMENT STABILISED
FULL DEPTH FOR BACKFILL
REFER STANDARD NOTES

RCP PIPE CAN BE SUBSTITUTED
FOR C7 HDPE* UNDER ROADS OR
C2 HDPE* ELSEWHERE
* = (OR COUNCIL APPROVED
EQUIVALENT)



H.G.L.	201.78	202.81	202.95	204.06	204.37	204.44	204.48	204.53	204.61	204.66	204.82	204.91	205.05
FLOW (l/s)		368.6		341.9		328.1		328.7		330.7		314.0	
CAPACITY (l/s)		576.3		451.0		357.1		357.1		357.1		357.1	
PART VELOCITY (m/s)		3.5		2.8		1.5		1.5		1.5		1.6	
PIPE DETAILS		4500 CL2 FJ		4500 CL2 FJ		5250 CL2 FJ		5250 CL2 FJ		5250 CL2 FJ		5250 CL2 FJ	
PIPE GRADE (SLOPE)		1:31.6 (3.16%)		1:51.5 (1.94%)		1:200.0 (0.50%)		1:200.0 (0.50%)		1:200.0 (0.50%)		1:200.0 (0.50%)	
DATUM RL 198.5													
DEPTH TO INVERT	1.31	1.23	1.35	1.30	2.08	2.03	1.98	1.93	2.20	2.15	2.10	2.05	1.23
INVERT LEVEL	200.94	201.02	202.36	202.41	203.61	203.66	203.71	203.76	203.82	203.87	203.91	203.96	204.22
DESIGN SURFACE	202.25	203.71			205.69	205.69	205.69	205.69	206.01	206.01	206.01	206.01	206.01
CHAINAGE	141.17	183.63	203.71		245.50	245.50	254.65	254.65	265.98	265.98	275.28	298.45	306.87
		42.47			61.86		9.15		11.33		9.30	23.17	8.41

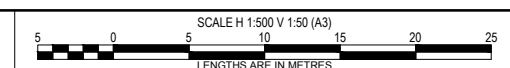
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J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY	NJB	NJB	NJB	22/08/14
REV	REVISION	DES	DWG	CHK	DATE

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 WEB: www.tomkinson.com EMAIL: bendigo@tomkinson.com

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"IMAGINE ESTATE" - STAGE 5
STRATHFIELDSAYE EAST PRECINCT
DRAINAGE LONG SECTIONS (SHEET 3 OF 8)

Municipality & Ref:
CITY OF GREATER BENDIGO
PP DS/791/2012
SHT 33 of 39 REV J
Drawing No. 1065305R33

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15A16

15A17

15A6

15D1

15A8

15E1

15A9

15F1

15A15

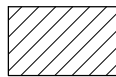
15G1

15A16

15H1

15H2

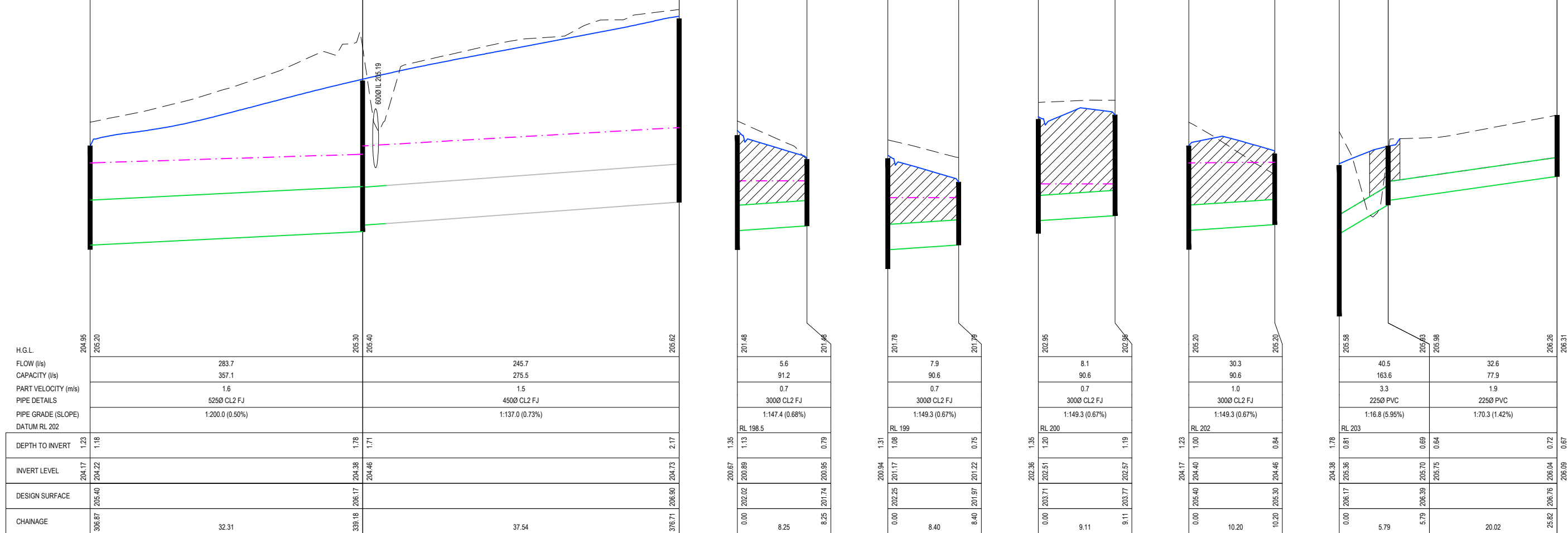
NOTE:



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RCP PIPE CAN BE SUBSTITUTED FOR C7 HDPE* UNDER ROADS OR C2 HDPE* ELSEWHERE

* = (OR COUNCIL APPROVED EQUIVALENT)



STATION	15A15	15A16	15A17	15A6	15D1	15A8	15E1	15A9	15F1	15A15	15G1	15A16	15H1	15H2	
H.G.L.	204.95	205.20	205.30	205.40	205.62	201.48	201.46	201.76	201.76	202.95	202.96	205.20	205.20	205.58	206.26
FLOW (l/s)		283.7			245.7	5.6		7.9		8.1		30.3		40.5	32.6
CAPACITY (l/s)		357.1			275.5	91.2		90.6		90.6		90.6		163.6	77.9
PART VELOCITY (m/s)		1.6			1.5	0.7		0.7		0.7		1.0		3.3	1.9
PIPE DETAILS		5250 CL2 FJ			4500 CL2 FJ	3000 CL2 FJ		3000 CL2 FJ		3000 CL2 FJ		3000 CL2 FJ		2250 PVC	2250 PVC
PIPE GRADE (SLOPE)		1:200.0 (0.50%)			1:137.0 (0.73%)	1:147.4 (0.68%)		1:149.3 (0.67%)		1:149.3 (0.67%)		1:149.3 (0.67%)		1:16.8 (5.95%)	1:70.3 (1.42%)
DATUM RL 202						RL 198.5		RL 199		RL 200		RL 202		RL 203	
DEPTH TO INVERT	1.23	1.18	1.78	1.71	2.17	1.35	1.06	1.20	1.19	1.23	1.00	0.84	1.76	0.81	0.72
INVERT LEVEL	204.17	204.22	204.38	204.46	204.73	200.67	200.89	202.51	202.57	204.17	204.40	204.46	205.36	205.75	206.04
DESIGN SURFACE	205.40	205.17	205.17	205.17	205.90	202.02	201.74	202.25	203.77	205.40	205.40	205.30	205.17	205.75	206.04
CHAINAGE	306.87	32.31	339.18	376.71	37.54	0.00	8.25	0.00	9.11	10.20	10.20	20.02	5.79	20.02	25.82

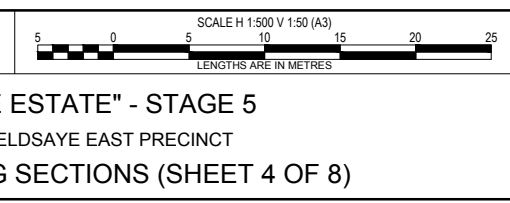
APPROVED FOR CONSTRUCTION

REV	DES	DWG	CHK	DATE	REVISION
J	NJB	NJB	NJB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
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Principal STRATHFIELDSAYE HOLDINGS PTY LTD

"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 DRAINAGE LONG SECTIONS (SHEET 4 OF 8)



Municipality & Ref:
 CITY OF GREATER BENDIGO
 PP DS/791/2012

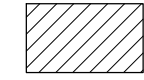
SHT 34 of 39 REV J

Drawing No.
 1065305R34

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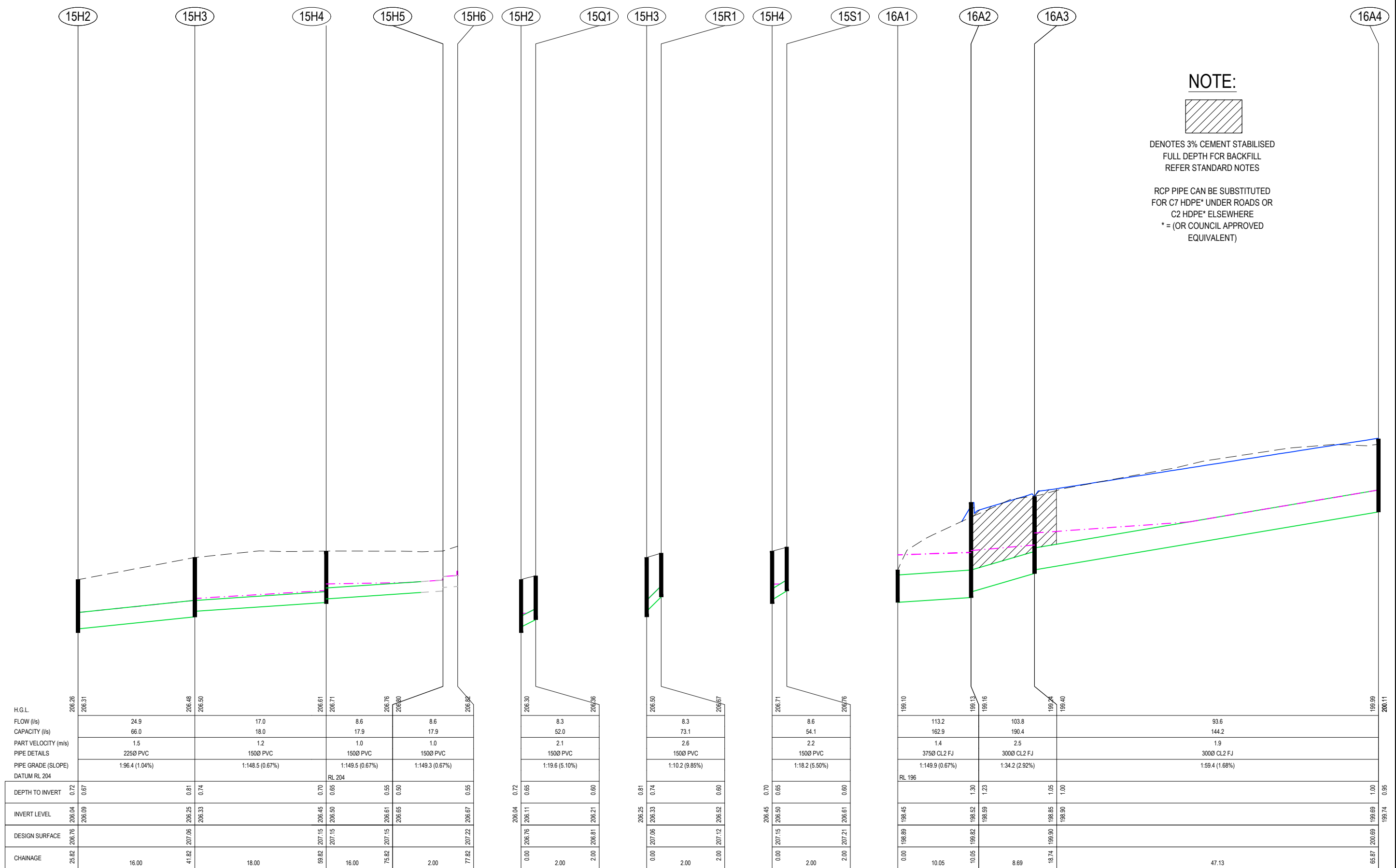
15H2 15H3 15H4 15H5 15H6 15H2 15Q1 15H3 15R1 15H4 15S1 16A1 16A2 16A3 16A4

NOTE:



DENOTES 3% CEMENT STABILISED
FULL DEPTH FOR BACKFILL
REFER STANDARD NOTES

RCP PIPE CAN BE SUBSTITUTED
FOR C7 HDPE* UNDER ROADS OR
C2 HDPE* ELSEWHERE
* = (OR COUNCIL APPROVED
EQUIVALENT)



H.G.L.	206.26	206.31	206.46	206.50	206.61	206.71	206.76	206.80	206.82	206.30	206.36	206.50	206.67	206.71	206.76	199.10	199.13	199.16	199.24	199.40	199.99	200.11
FLOW (l/s)			24.9		17.0		8.6		8.6	8.3		8.3		8.6		113.2		103.8		93.6		
CAPACITY (l/s)			66.0		18.0		17.9		17.9	52.0		73.1		54.1		162.9		190.4		144.2		
PART VELOCITY (m/s)			1.5		1.2		1.0		1.0	2.1		2.6		2.2		1.4		2.5		1.9		
PIPE DETAILS			2250 PVC		1500 PVC		1500 PVC		1500 PVC	1500 PVC		1500 PVC		1500 PVC		3750 CL2 FJ		3000 CL2 FJ		3000 CL2 FJ		
PIPE GRADE (SLOPE)			1:96.4 (1.04%)		1:148.5 (0.67%)		1:149.5 (0.67%)		1:149.3 (0.67%)	1:19.6 (5.10%)		1:10.2 (9.85%)		1:18.2 (5.50%)		1:149.9 (0.67%)		1:34.2 (2.92%)		1:59.4 (1.68%)		
DATUM RL 204					RL 204																	
DEPTH TO INVERT	0.72	0.67	0.81	0.74	0.70	0.65	0.55	0.50	0.55	0.72	0.65	0.81	0.74	0.60	0.60	1.96	1.30	1.23	1.05	1.00	1.00	0.95
INVERT LEVEL	206.04	206.09	206.25	206.33	206.45	206.50	206.61	206.65	206.67	206.04	206.11	206.25	206.33	206.52	206.61	198.45	198.52	198.59	198.85	198.90	199.69	199.74
DESIGN SURFACE	206.76	206.76	207.06	207.06	207.15	207.15	207.15	207.15	207.22	206.76	206.76	207.06	207.06	207.12	207.21	198.69	198.82	198.82	199.90	200.69	200.69	200.69
CHAINAGE	25.82		41.82		59.82		75.82		77.82	0.00	2.00	0.00	2.00	0.00	2.00	0.00	10.05	10.05	8.69	18.74	66.87	66.87

APPROVED FOR CONSTRUCTION

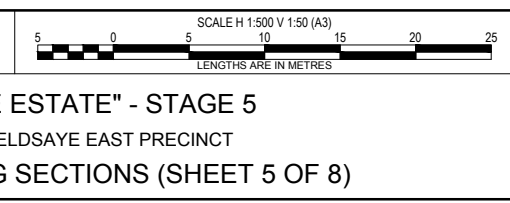
REV	DESCRIPTION	DES	DWG	CHK	DATE
J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY	NJB	NJB	NJB	22/08/14

tomkinson Group

PROJECT MANAGERS DEVELOPMENT PLANNERS ISO 9001:2008
 LICENSED SURVEYORS CIVIL ENGINEERS FS520488

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Principal STRATHFIELDSAYE HOLDINGS
 PTY LTD



"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 DRAINAGE LONG SECTIONS (SHEET 5 OF 8)

Municipality & Ref:
 CITY OF
 GREATER BENDIGO
 PP DS/791/2012

SHT 35 of 39 REV J

Drawing No.
 1065305R35

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16A4

16A5

16A6

16A7

16A8

16A9

16A4

16B1

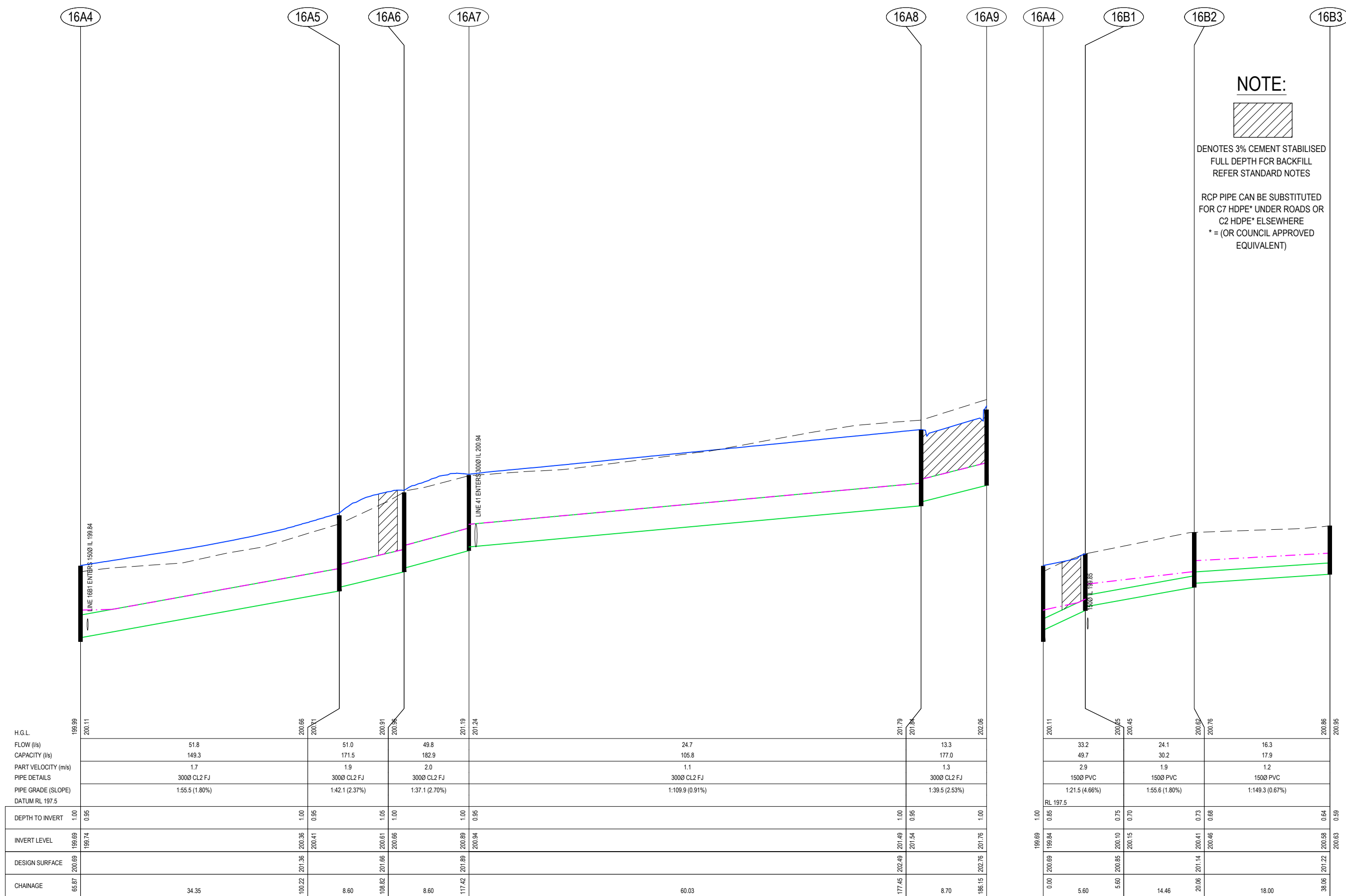
16B2

16B3

NOTE:



DENOTES 3% CEMENT STABILISED FULL DEPTH FOR BACKFILL REFER STANDARD NOTES
RCP PIPE CAN BE SUBSTITUTED FOR C7 HDPE* UNDER ROADS OR C2 HDPE* ELSEWHERE
* = (OR COUNCIL APPROVED EQUIVALENT)



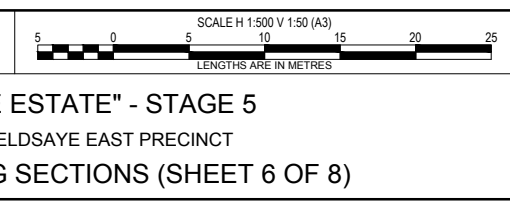
H.G.L.	199.99	200.11	200.66	200.71	200.91	200.96	201.19	201.24	201.79	201.84	202.06	200.11	200.45	200.45	200.62	200.76	200.86	200.95	
FLOW (l/s)			51.8		51.0		49.8		24.7		13.3		33.2		24.1		16.3		
CAPACITY (l/s)			149.3		171.5		182.9		105.8		177.0		49.7		30.2		17.9		
PART VELOCITY (m/s)			1.7		1.9		2.0		1.1		1.3		2.9		1.9		1.2		
PIPE DETAILS			3000 CL2 FJ		3000 CL2 FJ		3000 CL2 FJ		3000 CL2 FJ		3000 CL2 FJ		1500 PVC		1500 PVC		1500 PVC		
PIPE GRADE (SLOPE)			1:55.5 (1.80%)		1:42.1 (2.37%)		1:37.1 (2.70%)		1:109.9 (0.91%)		1:39.5 (2.53%)		1:21.5 (4.66%)		1:55.6 (1.80%)		1:149.3 (0.67%)		
DATUM RL 197.5																			
DEPTH TO INVERT	1.00	0.95		1.00	0.95		1.00	0.95		1.00	0.95		0.85		0.75	0.70		0.64	0.59
INVERT LEVEL	199.89	199.74		200.36	200.41		200.61	200.66		200.89	200.94		199.84		200.10	200.15		200.46	200.58
DESIGN SURFACE	200.69	200.69		201.36	201.41		201.66	201.66		201.89	201.89		200.69		200.85	200.85		201.14	201.22
CHAINAGE	65.87	200.69		100.22	201.36		108.82	201.66		117.42	201.89		177.45	202.49	201.49	201.54		186.15	202.76
			34.35			8.60			8.60			60.03					8.70		

APPROVED FOR CONSTRUCTION

REV	DESCRIPTION	DES	DWG	CHK	DATE
J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILLI WAY	NJB	NJB	NJB	22/08/14

tomkinson Group
 PROJECT MANAGERS DEVELOPMENT PLANNERS
 LICENSED SURVEYORS CIVIL ENGINEERS
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 PO BOX 421, BENDIGO 3552 57 MYERS STREET, BENDIGO 3550
 WEB: www.tomkinson.com EMAIL: bendigo@tomkinson.com

Principal STRATHFIELDSAYE HOLDINGS
 PTY LTD



"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 DRAINAGE LONG SECTIONS (SHEET 6 OF 8)

Municipality & Ref:
 CITY OF
 GREATER BENDIGO
 PP DS/791/2012
 SHT 36 of 39 REV J
 Drawing No.
 1065305R36

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16B3

16B4

16A7

16D1

17A1

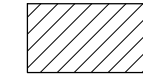
17A2

17A3

17A4

17A5

NOTE:



DENOTES 3% CEMENT STABILISED FULL DEPTH FOR BACKFILL REFER STANDARD NOTES
RCP PIPE CAN BE SUBSTITUTED FOR C7 HDPE* UNDER ROADS OR C2 HDPE* ELSEWHERE
* = (OR COUNCIL APPROVED EQUIVALENT)

H.G.L.	200.86	200.95	200.98
FLOW (l/s)	8.3		
CAPACITY (l/s)	17.9		
PART VELOCITY (m/s)	1.0		
PIPE DETAILS	1500 PVC		
PIPE GRADE (SLOPE)	1:149.3 (0.67%)		
DATUM RL 197.5			
DEPTH TO INVERT	0.64	0.59	0.55
INVERT LEVEL	200.58	200.63	200.75
DESIGN SURFACE	201.22	201.30	
CHAINAGE	38.06	18.00	56.06

H.G.L.	201.24	201.47
FLOW (l/s)	14.7	
CAPACITY (l/s)	179.4	
PART VELOCITY (m/s)	1.4	
PIPE DETAILS	3000 CL2 FJ	
PIPE GRADE (SLOPE)	1:38.5 (2.60%)	
DATUM RL 198.5		
DEPTH TO INVERT	1.00	1.00
INVERT LEVEL	200.89	201.17
DESIGN SURFACE	201.69	202.17
CHAINAGE	0.00	8.55

H.G.L.	201.15	201.17	201.20	201.22	201.24	201.53	201.58	202.26	202.29	202.83	202.85	203.47	203.48	204.04	204.04	204.20
FLOW (l/s)	48.0		39.3		8.6-39.5		125.6		8.6		35.4		1.6		8.6	
CAPACITY (l/s)	90.6		77.8		125.6		125.6		35.4		35.4		1.6		8.6	
PART VELOCITY (m/s)	1.2		1.0		1.8-2.7		1.8-2.7		1.6		1.6		1.6		1.6	
PIPE DETAILS	3000 CL2/4 FJ		3000 CL2 FJ		2250 PVC		2250 PVC		1500 PVC		1500 PVC		1500 PVC		1500 PVC	
PIPE GRADE (SLOPE)	1:149.3 (0.67%)		1:201.9 (0.50%)		1:28.0 (3.57%)		1:28.0 (3.57%)		1:41.1 (2.43%)		1:41.1 (2.43%)		1:41.1 (2.43%)		1:41.1 (2.43%)	
DATUM RL 198.5																
DEPTH TO INVERT	0.37	0.87	0.85	0.70	0.68					0.70	0.62			0.75	0.75	0.75
INVERT LEVEL	200.78	200.86	200.88	200.92	200.94					203.82	203.89			204.05	204.05	204.05
DESIGN SURFACE	201.15	201.73	201.88	201.62	201.94					204.52	204.80			204.80	204.80	204.80
CHAINAGE	0.00	12.39	12.39	8.08	20.47					80.54	101.01			6.50	107.51	107.51

APPROVED FOR CONSTRUCTION

J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILIL WAY	NJB	NJB	NJB	22/08/14
REV	REVISION	DES	DWG	CHK	DATE

tomkinson Group
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 WEB: www.tomkinson.com EMAIL: bendigo@tomkinson.com

Principal STRATHFIELDSAYE HOLDINGS
 PTY LTD

SCALE H 1:500 V 1:50 (A3)
 LENGTHS ARE IN METRES

"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 DRAINAGE LONG SECTIONS (SHEET 7 OF 8)

Municipality & Ref:
 CITY OF
 GREATER BENDIGO
 PP DS/791/2012

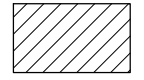
SHT 37 of 39 REV J

Drawing No.
 1065305R37

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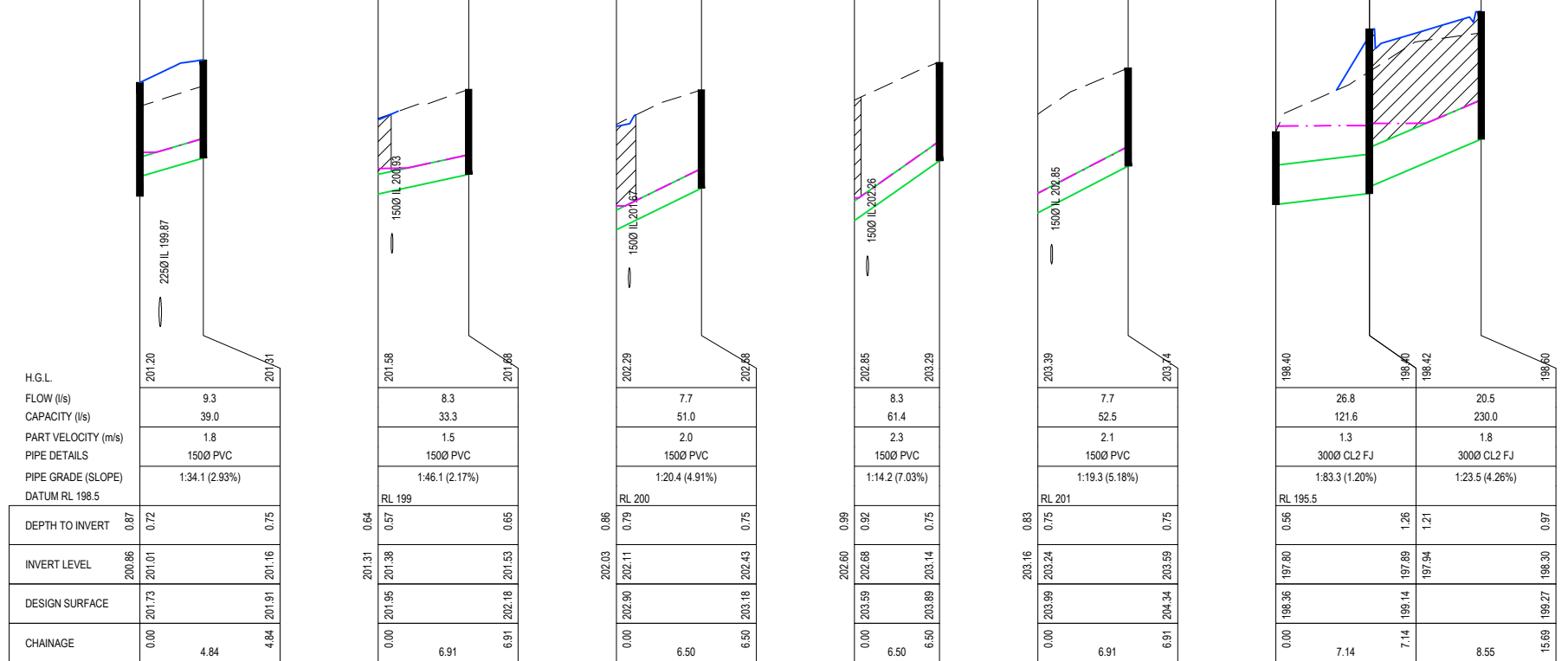
17A2 17B1 17A3-17A4 17C1 17A3-17A4 17D1 17A3-17A4 17E1 17A3-17A4 17F1 27A1 27A2 27A3

NOTE:



DENOTES 3% CEMENT STABILISED
FULL DEPTH FOR BACKFILL
REFER STANDARD NOTES

RCP PIPE CAN BE SUBSTITUTED
FOR C7 HDPE* UNDER ROADS OR
C2 HDPE* ELSEWHERE
* = (OR COUNCIL APPROVED
EQUIVALENT)



H.G.L.	201.20	201.51
FLOW (l/s)	9.3	
CAPACITY (l/s)	39.0	
PART VELOCITY (m/s)	1.8	
PIPE DETAILS	1500 PVC	
PIPE GRADE (SLOPE)	1:34.1 (2.93%)	
DATUM RL 198.5		
DEPTH TO INVERT	0.87	0.75
INVERT LEVEL	200.86	201.16
DESIGN SURFACE	201.73	201.91
CHAINAGE	0.00	4.84

H.G.L.	201.58	201.66
FLOW (l/s)	8.3	
CAPACITY (l/s)	33.3	
PART VELOCITY (m/s)	1.5	
PIPE DETAILS	1500 PVC	
PIPE GRADE (SLOPE)	1:46.1 (2.17%)	
DATUM RL 199		
DEPTH TO INVERT	0.64	0.65
INVERT LEVEL	201.31	201.53
DESIGN SURFACE	201.95	202.18
CHAINAGE	0.00	6.91

H.G.L.	202.29	202.46
FLOW (l/s)	7.7	
CAPACITY (l/s)	51.0	
PART VELOCITY (m/s)	2.0	
PIPE DETAILS	1500 PVC	
PIPE GRADE (SLOPE)	1:20.4 (4.91%)	
DATUM RL 200		
DEPTH TO INVERT	0.86	0.75
INVERT LEVEL	202.03	202.43
DESIGN SURFACE	202.90	203.18
CHAINAGE	0.00	6.50

H.G.L.	202.85	202.29
FLOW (l/s)	8.3	
CAPACITY (l/s)	61.4	
PART VELOCITY (m/s)	2.3	
PIPE DETAILS	1500 PVC	
PIPE GRADE (SLOPE)	1:14.2 (7.03%)	
DATUM RL 200		
DEPTH TO INVERT	0.99	0.75
INVERT LEVEL	202.60	203.14
DESIGN SURFACE	203.59	203.88
CHAINAGE	0.00	6.50

H.G.L.	203.39	203.74
FLOW (l/s)	7.7	
CAPACITY (l/s)	52.5	
PART VELOCITY (m/s)	2.1	
PIPE DETAILS	1500 PVC	
PIPE GRADE (SLOPE)	1:19.3 (5.18%)	
DATUM RL 201		
DEPTH TO INVERT	0.83	0.75
INVERT LEVEL	203.24	203.59
DESIGN SURFACE	203.99	204.34
CHAINAGE	0.00	6.91

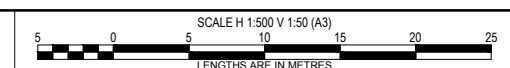
H.G.L.	198.40	198.42	198.60
FLOW (l/s)	26.8	20.5	
CAPACITY (l/s)	121.6	230.0	
PART VELOCITY (m/s)	1.3	1.8	
PIPE DETAILS	3000 CL2 FJ	3000 CL2 FJ	
PIPE GRADE (SLOPE)	1:83.3 (1.20%)	1:23.5 (4.26%)	
DATUM RL 195.5			
DEPTH TO INVERT	0.56	1.26	0.97
INVERT LEVEL	197.80	197.89	198.30
DESIGN SURFACE	198.36	198.14	198.27
CHAINAGE	0.00	7.14	15.69

APPROVED FOR CONSTRUCTION

J	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT	NJB	NJB	NJB	03/06/15
I	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN	NJB	NJB	NJB	26/05/15
H	ADDED STREET TREES	NJB	NJB	NJB	06/05/15
G	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE	NJB	NJB	NJB	10/04/15
F	MINOR AMENDS AT CLIENT REQUEST	NJB	NJB	NJB	07/04/15
E	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS	NJB	NJB	NJB	02/04/15
D	CORRECTED ELECTRICAL CONDUITS IN YIRRILLI WAY	NJB	NJB	NJB	22/08/14
REV	REVISION	DES	DWG	CHK	DATE

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Principal STRATHFIELDSAYE HOLDINGS
PTY LTD



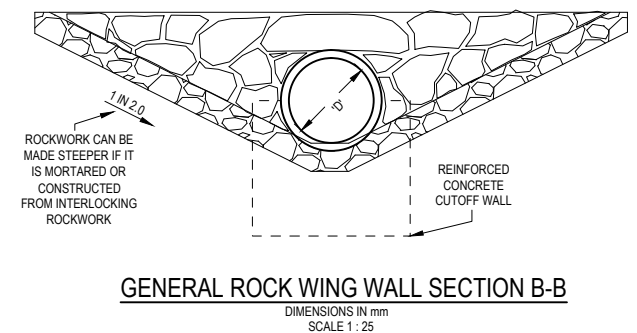
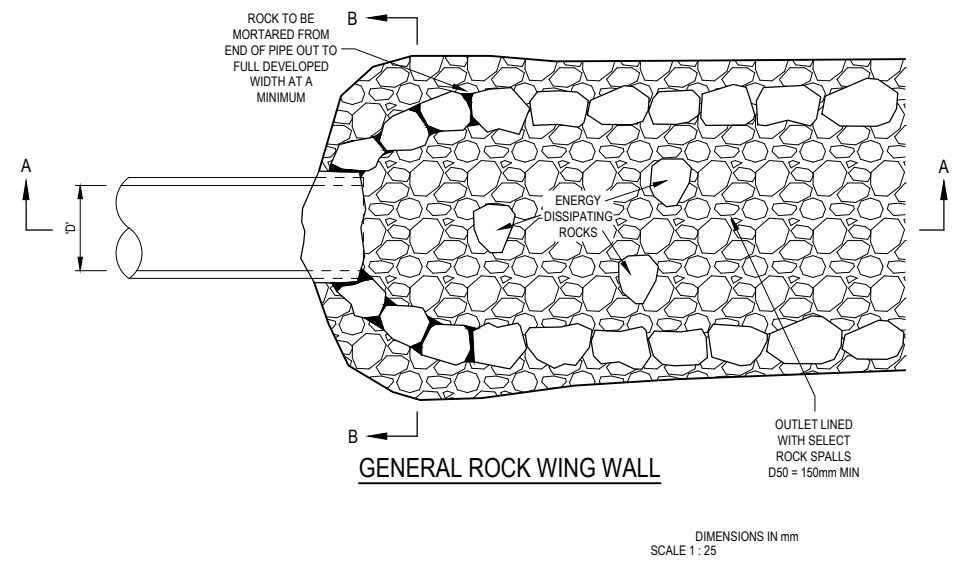
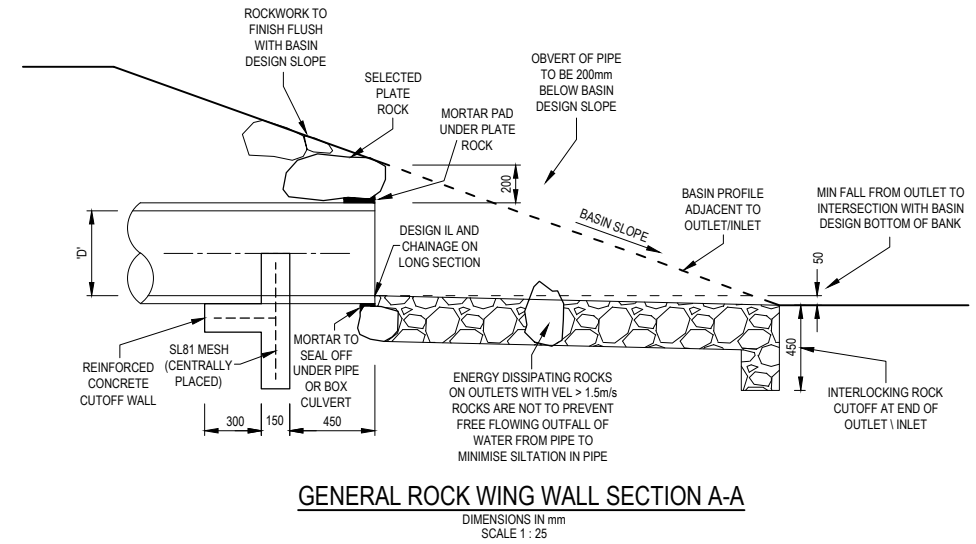
"IMAGINE ESTATE" - STAGE 5
 STRATHFIELDSAYE EAST PRECINCT
 DRAINAGE LONG SECTIONS (SHEET 8 OF 8)

Municipality & Ref:	CITY OF GREATER BENDIGO PP DS/791/2012
SHT	38 of 39
REV	J
Drawing No.	1065305R38

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PIT SCHEDULE									
Pit No.	Pit Type	Pit Dimensions	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comment
		(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
5A6	JP+GJP	900x600	300	201.54	300	201.59	1.05	202.59	JP + GJP IN KERB AS PER IDM SD 480
5A7	SEP	900x600	300	201.82			1.05	202.87	
6A10	GJP	450x450	225	199.96	225	200.01	0.93	200.89	
6A11	GJP	450x450	225	200.09	225	200.14	0.80	200.88	
6A12	GJP	450x450	225	200.23	150	200.31	0.69	200.92	
6A13	GJP	450x450	150	200.42	150	200.47	0.62	201.03	
6A14	GJP	450x450	150	200.59			0.56	201.15	
13A1		300 Wingwall			300	196.90			ROCK WINGWALL REFER TYPICAL DETAIL
13A2	SEP	900x600	300	196.82	300	197.52	1.69	198.52	
13A3	JP+GJP	900x600	300	197.65			0.93	198.58	JP + GJP IN KERB AS PER IDM SD 480
15A6	JP+GJP	900x900	525	200.67	525	200.72	1.35	202.02	JP + GJP IN KERB AS PER IDM SD 480
15A7	JP	900x900	525	200.78	525	200.83	1.29	202.07	
15A8	JP+GJP	900x900	525	200.94	450	201.02	1.31	202.25	JP + GJP IN KERB AS PER IDM SD 480
15A9	JP+GJP	900x600	450	202.36	450	202.41	1.35	203.71	JP + GJP IN KERB AS PER IDM SD 480
15A10	JP	900x600	450	203.61	525	203.66	2.08	205.69	
15A11	JP	900x900	525	203.71	525	203.76	1.98	205.69	
15A12	JP	900x900	525	203.82	525	203.87	2.20	206.01	
15A13	JP	900x900	525	203.91	525	203.96	2.10	206.01	CLASS 'D' LID
15A14	SEP	900x900	525	204.08	525	204.13	1.50	205.58	
15A15	GJP IN KERB	900x900	525	204.17	525	204.22	1.23	205.40	CLASS 'D' BIKE SAFE GRATE
15A16	JP+GJP	900x900	525	204.38	450	204.46	1.78	206.17	JP + GJP IN KERB AS PER IDM SD 480
15A17	SEP	900x600	450	204.73	300	205.87	2.17	206.90	FUTURE PIT
15D1	GJP IN KERB	900x600	300	200.95			0.79	201.74	CLASS 'D' BIKE SAFE GRATE
15E1	GJP IN KERB	900x600	300	201.22			0.75	201.97	CLASS 'D' BIKE SAFE GRATE
15F1	GJP IN KERB	900x600	300	202.57			1.19	203.77	CLASS 'D' BIKE SAFE GRATE
15G1	GJP IN KERB	900x600	300	204.46			0.84	205.30	CLASS 'D' BIKE SAFE GRATE
15H1	JP	450x450	225	205.70	225	205.75	0.69	206.39	
15H2	JP	450x450	225	206.04	225	206.09	0.72	206.76	
15H3	JP	450x450	225	206.25	150	206.11	0.81	207.06	
			150	206.33					

PIT SCHEDULE									
Pit No.	Pit Type	Pit Dimensions	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comment
		(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
15H4	JP	450x450	150	206.45	150	206.50	0.70	207.15	
15H5	JP	450x450	150	206.61	150	206.65	0.55	207.15	EXISTING PIT
15H6	JP	450x450	150	206.67			0.55	207.22	EXISTING PIT - CONVERT TO GJP
15Q1	GJP	450x450	150	206.21			0.60	206.81	
15R1	GJP	450x450	150	206.52			0.60	207.12	
15S1	GJP	450x450	150	206.61			0.60	207.21	
16A1		375 Wingwall			375	198.45			ROCK WINGWALL REFER TYPICAL DETAIL
16A2	SEP	900x600	375	198.52	300	198.59	1.30	199.82	
16A3	GJP IN KERB	900x600	300	198.85	300	198.90	1.05	199.90	CLASS 'D' BIKE SAFE GRATE
16A4	JP+GJP	900x600	300	199.69	300	199.74	1.00	200.69	JP + GJP IN KERB AS PER IDM SD 480
16A5	SEP	900x600	300	200.36	300	200.41	1.00	201.36	
16A6	JP	900x600	300	200.61	300	200.66	1.05	201.66	'CLASS 'D' LID
16A7	SEP	900x600	300	200.89	300	200.94	1.00	201.89	
16A8	JP+GJP	900x600	300	201.49	300	201.54	1.00	202.49	JP + GJP IN KERB AS PER IDM SD 480
16A9	SEP	900x600	300	201.76			1.00	202.76	
16B1	GJP	450x450	150	200.10	150	200.15	0.75	200.85	
16B2	GJP	450x450	150	200.41	150	200.46	0.73	201.14	
16B3	GJP	450x450	150	200.58	150	200.63	0.64	201.22	
16B4	GJP	450x450	150	200.75			0.55	201.30	
16D1	SEP	900x600	300	201.17			1.00	202.17	
17A1		300 Wingwall			300	200.78			ROCK WINGWALL REFER TYPICAL DETAIL
17A2	JP	450x450	300	200.86	150	201.01	0.87	201.73	'CLASS 'D' LID
17A3	JP	450x450	300	200.92	225	200.94	0.70	201.62	'CLASS 'D' GATIC LID
17A4	JP	450x450	225	203.82	150	203.89	0.70	204.52	'CLASS 'D' LID
17A5	GJP	450x450	150	204.05			0.75	204.80	
17B1	GJP	450x450	150	201.16			0.75	201.91	
17C1	GJP	450x450	150	201.53			0.65	202.18	
17D1	GJP	450x450	150	202.43			0.75	203.18	
17E1	GJP	450x450	150	203.14			0.75	203.89	
17F1	GJP	450x450	150	203.59			0.75	204.34	
27A1		300 Wingwall			300	197.80			ROCK WINGWALL REFER TYPICAL DETAIL
27A2	SEP	900x600	300	197.89	300	197.94	1.26	199.14	
27A3	JP+GJP	900x600	300	198.30			0.97	199.27	JP + GJP IN KERB AS PER IDM SD 480



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REV	DWG	CHK	DATE	REVISION
J	NJB	NJB	03/06/15	LOT 122 NARROWED TO 16m & LOT 123 WIDENED TO 18m + AMENDED AFFECTED DRAINAGE TO SUIT
I	NJB	NJB	26/05/15	AMENDED E&T CONDUITS: LOTS 181-187 + ADDED EXTRA IN FRONT OF LOTS B10+B20+B22 TO MATCH UCS PLAN
H	NJB	NJB	06/05/15	ADDED STREET TREES
G	NJB	NJB	10/04/15	DRAINAGE CORRECTIONS - AMEND TREE REMOVAL BEHIND LOTS 128-131 AS PER COUNCIL ADVICE
F	NJB	NJB	07/04/15	MINOR AMENDS AT CLIENT REQUEST
E	NJB	NJB	02/04/15	EXTENDED LIMITS OF STAGE WEST OF DRAINAGE LINE & ADJUSTED LAYOUT OF SOME EXISTING LOTS
D	NJB	NJB	22/08/14	CORRECTED ELECTRICAL CONDUITS IN YIRRILLIL WAY

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"IMAGINE ESTATE" - STAGE 5
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 DRAINAGE PIT SCHEDULE & OUTFALL DETAIL

Municipality & Ref:
 CITY OF
 GREATER BENDIGO
 PP DS/791/2012

SHT 39 of 39 REV J

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 1065305R39

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