

THE PERCH

STAGE 3

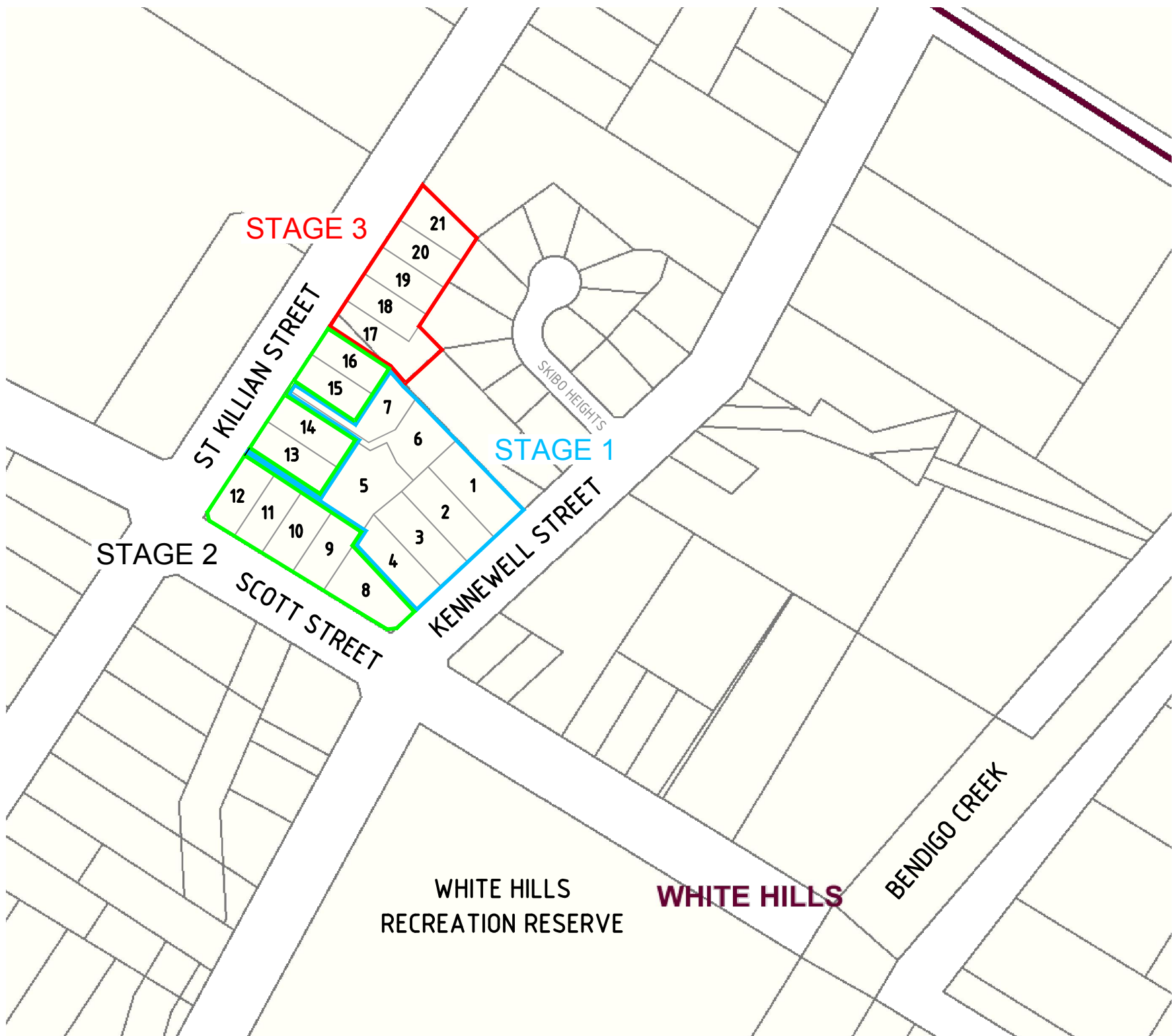
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GENERAL NOTES:

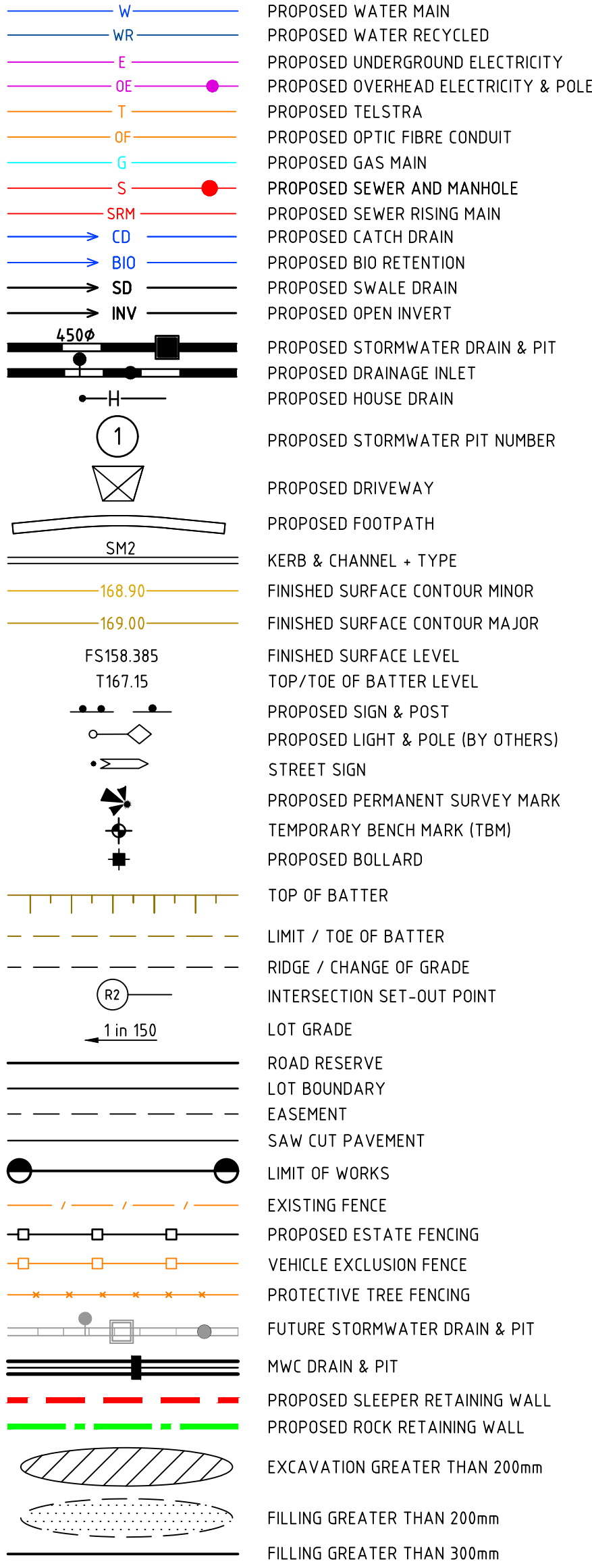
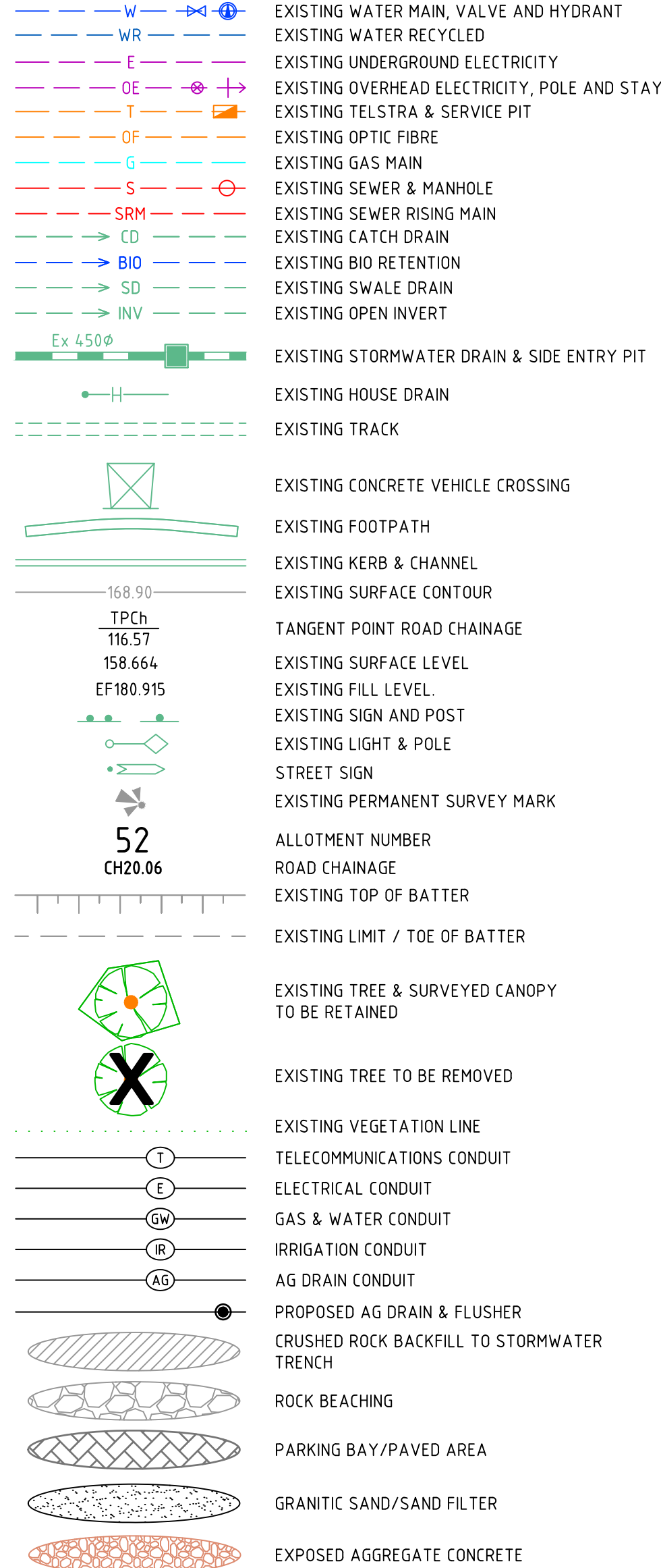
- A. GENERAL
- ALL WORK TO BE CARRIED OUT TO CITY OF GREATER BENDIGO SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL'S SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.
 - ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
 - THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
 - FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND ONLY RE-TOPSOILED ON THE DIRECTION OF THE ENGINEER, TO THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING IS TO BE:
 - APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT.
 - PLACED IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.
 - MOISTURE CONDITIONED TO WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT.
 - COMPACTED TO A MINIMUM 95% (STANDARD) DRY DENSITY RATIO.
 - PLACED UNDER "LEVEL 1" SUPERVISION IN ACCORDANCE WITH AS 3798-1996.
 - EXISTING DEPRESSIONS & DRAINS TRAVERSING THE SITE ARE TO BE CLEANED OUT AND DESLUGGED TO FIRM BASE AND FILLED TO FINISHED SURFACE LEVELS TO THE SPECIFIED COMPACTION STANDARDS.
 - TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
 - POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 1.0M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.
 - BEFORE COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.5 M DEEP, THE REQUIRED NOTICE IS TO BE SENT TO THE VICTORIAN WORKCOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT, 1958 NO 6320 SECTION 385 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985. THIS NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, AND A COPY OF THE NOTIFICATION MUST BE PROVIDED TO THE SUPERINTENDENT.
 - COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
 - NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
 - NO BLASTING IS PERMITTED WITHIN THE CITY OF GREATER BENDIGO WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.
 - EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.
 - ALL SURPLUS ROCK, CONCRETE AND BITUMINOUS RUBBLE SHALL BE DISPOSED OFF SITE AS SPECIFIED. THE CONTRACTOR SHALL CHECK WITH SUPERINTENDENT WHETHER ANY LARGE ROCKS ARE REQUIRED FOR LANDSCAPE PURPOSES PRIOR TO DISPOSAL.
 - NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.

B. ROAD WORKS

- FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF GREATER BENDIGO STANDARDS.
- CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF GREATER BENDIGO STANDARDS.
- ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
- ALL BATTERS SHALL BE TO THE CITY OF GREATER BENDIGO STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
- ALL SET OUT INFORMATION GIVEN IS TO BACK OF KERB UNLESS OTHERWISE SHOWN.
- WHERE CRUSHED ROCK IS SHOWN UNDER CONCRETE FOOTPATHS CONSTRUCTED ON FILL, THE CRUSHED ROCK IS TO BE 20MM CLASS 3. WHERE CUT BATTERS ARE STEEPER THAN 1:6 THEY MUST BE HYDRO MULCHED.
- SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C INVICROADS TABLE 304.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO AN AVERAGE OF 100% MINIMUM MODIFIED DRY DENSITY. ANY FILLING BENEATH ROAD PAVEMENT AREAS TO BE COMPACTED TO 100% OF MAXIMUM DRY DENSITY. COMPACTION TESTING TO BE AS PER COUNCIL REQUIREMENTS.
- ANY BACKFILL WITHIN 1.0M OF A COUNCIL ASSET (FOOTPATH OR ROAD) IS TO BE FCR. FILL MATERIAL IS ACCEPTABLE IF COMPACTED TO ENSURE 95% COMPACTION. COMPACTION TESTING TO BE PERFORMED AT ONE PER 60M OF TRENCH.
- CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE



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SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
KENNEWELL STREET	W	3.4 (EX)	E	4.0 (EX)	W	1.5 (EX)	E	3.0 (EX)	E	4.5
SCOTT STREET	N	5.0 (EX)	N	3.6 (EX)	N	2.6 (EX)	-	-	-	-
ST KILLIAN STREET (CH 50.00 - 100.00)	E	3.9 (Var)	E	4.4 (Var)	E	2.7	W	4.0 (EX)	E	2.2
ST KILLIAN STREET (CH 130.00 - 180.00)	E	2.5 (Var)	E	3.0 (Var)	E	1.75 (EX)	W	4.0 (EX)	E	1.0

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB
- (EX) = SERVICE IS EXISTING
- (Var) = SERVICE OFFSET CAN VARY IN SECTIONS

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



file name: 302102CR100.dwg, layout name: CR100, plotted by: Jason Ebbeling, file location: G:\302102CR100\CR100.dwg, plot date: 03/07/2018 15:52 PM, Sheet 1 of 1

Rev	Amendments	Approved	Date



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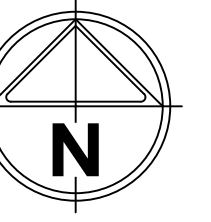
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THE PERCH
STAGE 3
ROAD & DRAINAGE FACE SHEET

CITY OF GREATER BENDIGO
JLEJ INVESTMENTS PTY LTD

CONSTRUCTION Drg No **302102CR100** Rev **-**



Gravel road way to be realigned to provide continuation. Location to be finalised on-site in consultation with Council.

Redundant gravel track to be ripped and topsoil from adjacent newly created road section to be placed over ripped area.

Remove existing pipe approx 15m long and outlet

Remove existing pit and reconnect any pipe connections to proposed pit.

Existing courtbowl to be removed as shown

15m section of Kerb & Channel adjacent to tree to be formed from asphalt. The site superintendent must be present on site prior to excavation

Footpath excavation to not exceed 100mm depth within 9m of tree.

EXISTING WORKS

SKIBO HEIGHTS

file name: 302102CR200.dwg, layout name: CR200, plotted by: Jason Fehring, file location: G:\302102\302102.dwg, plot date: 03/07/2018 15:52 PM, Sheet 04 of 04

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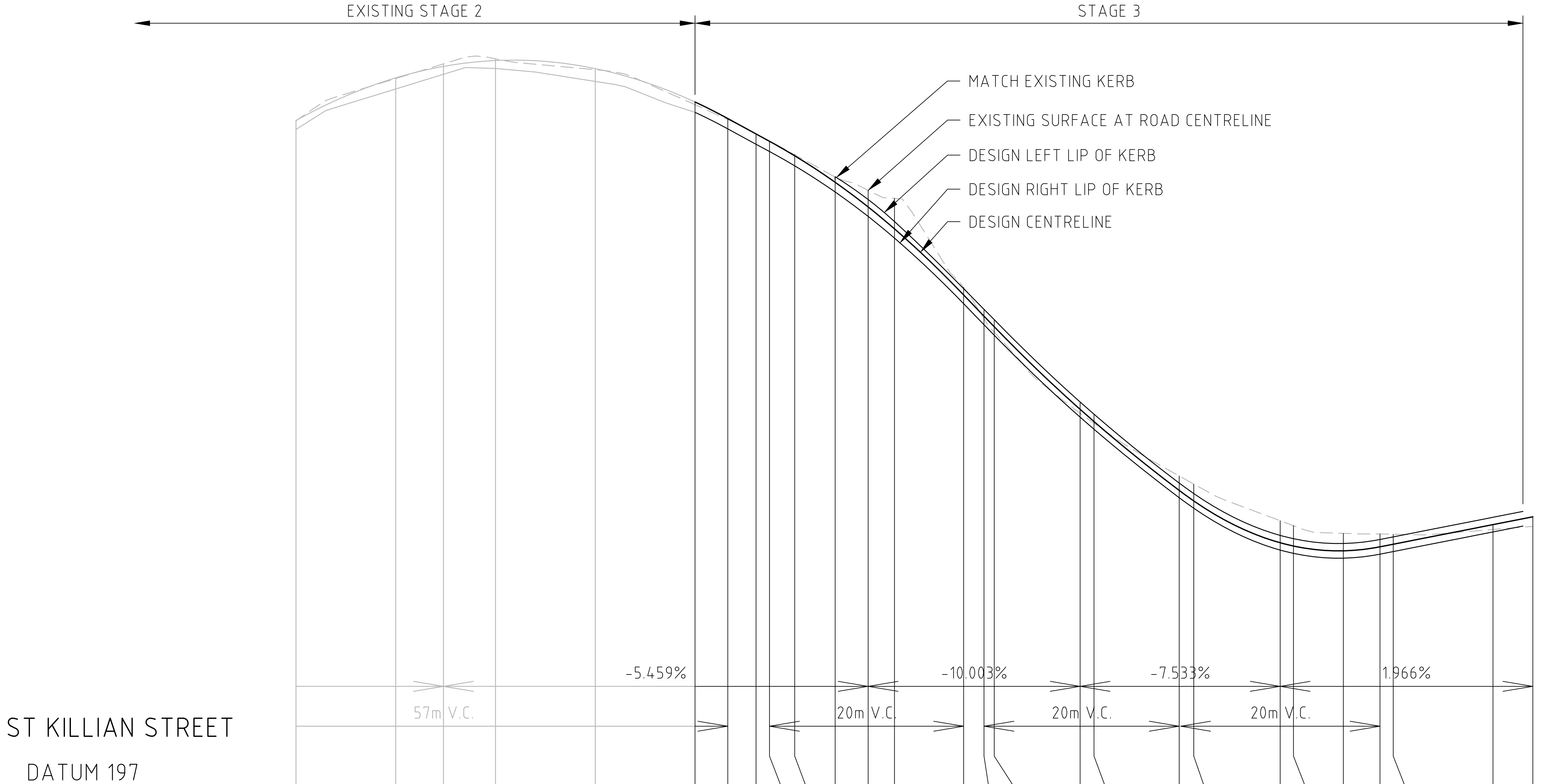
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Date

THE PERCH
STAGE 3
ROAD & DRAINAGE LAYOUT PLAN
04 SHEET TITLE
CITY OF GREATER BENDIGO
JLEJ INVESTMENTS PTY LTD

CONSTRUCTION Drg No **302102CR200** Rev **-**

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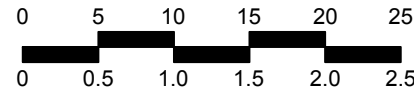


CHAINAGE (m)	DESIGN CL SURFACE LEVEL	EXISTING SURFACE ON ROAD CENTRELINE	RIGHT DESIGN LIP OF KERB	LEFT DESIGN LIP OF KERB
70.000	203.674	203.670	203.584	
80.000	204.101	204.094	203.989	
84.782	204.216	204.241	204.171	
90.000	204.275	204.291	204.195	
100.000	204.194	204.183	204.065	
110.000	203.859	203.832	203.755	
113.289	203.693	203.682	203.590	
116.120	203.539	203.539	203.435	
117.467	203.465	203.467	203.363	
120.000	203.319	203.331	203.219	
124.052	203.054	203.107	202.957	203.110
127.358	202.807	202.973	202.712	202.881
130.000	202.587	202.893	202.494	202.660
136.932	201.924	201.999	201.837	201.988
138.976	201.711	201.686	201.625	201.780
140.000	201.605	201.552	201.520	201.677
148.610	200.777	200.738	200.699	200.851
150.000	200.655	200.637	200.578	200.729
158.543	199.965	200.109	199.891	200.038
160.000	199.859	200.028	199.786	199.933
168.666	199.440	199.661	199.366	199.513
170.000	199.407	199.611	199.333	199.480
175.000	199.359	199.534	199.285	199.432
178.672	199.399	199.528	199.325	199.472
180.000	199.425	199.525	199.351	199.498
190.000	199.621	199.573	199.548	199.695
193.995	199.700	199.604		

EXISTING WORKS

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V 1:50



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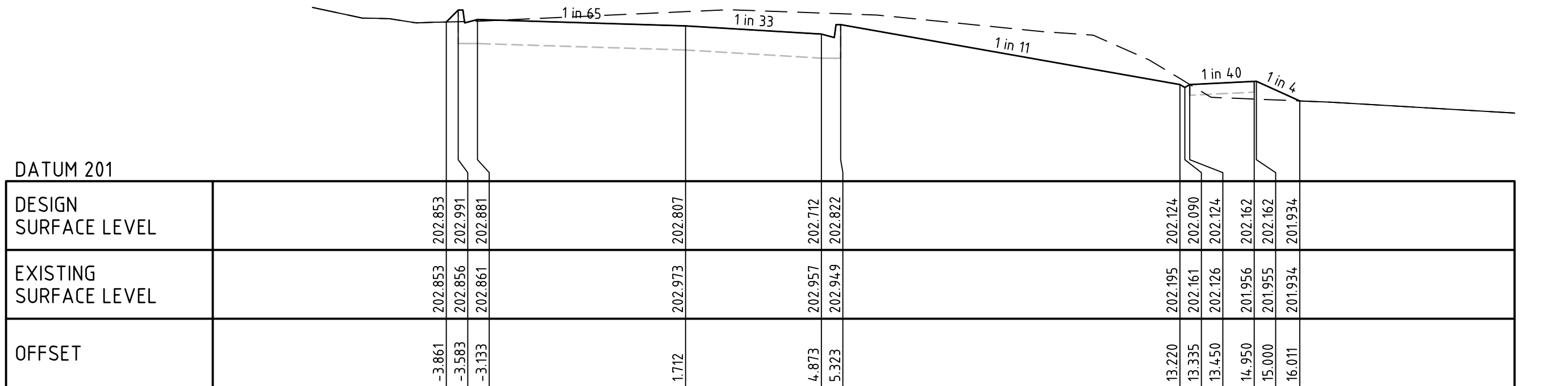
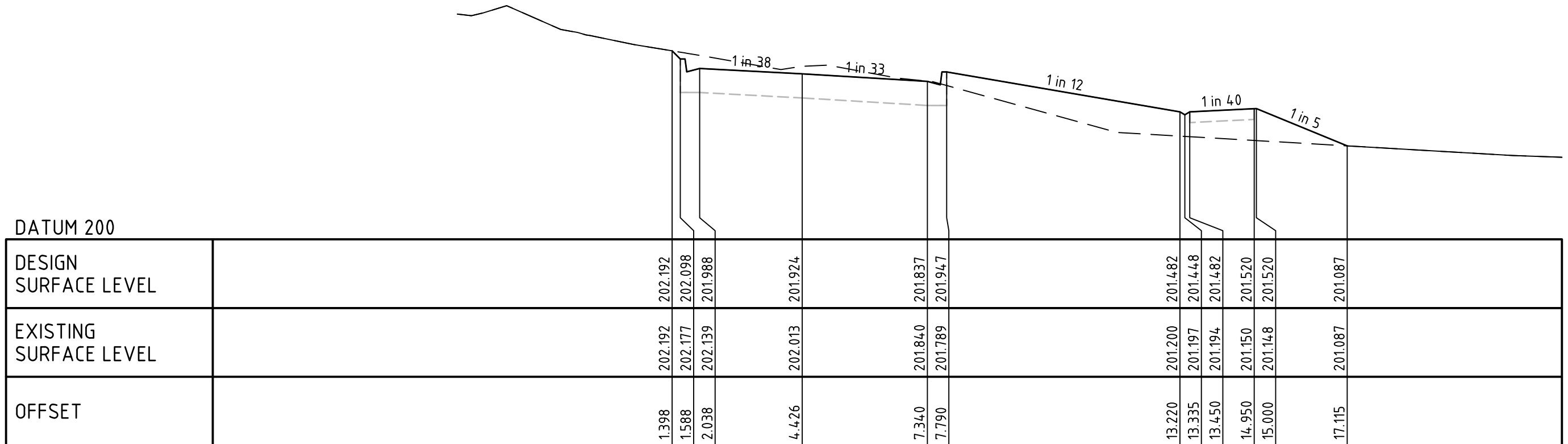
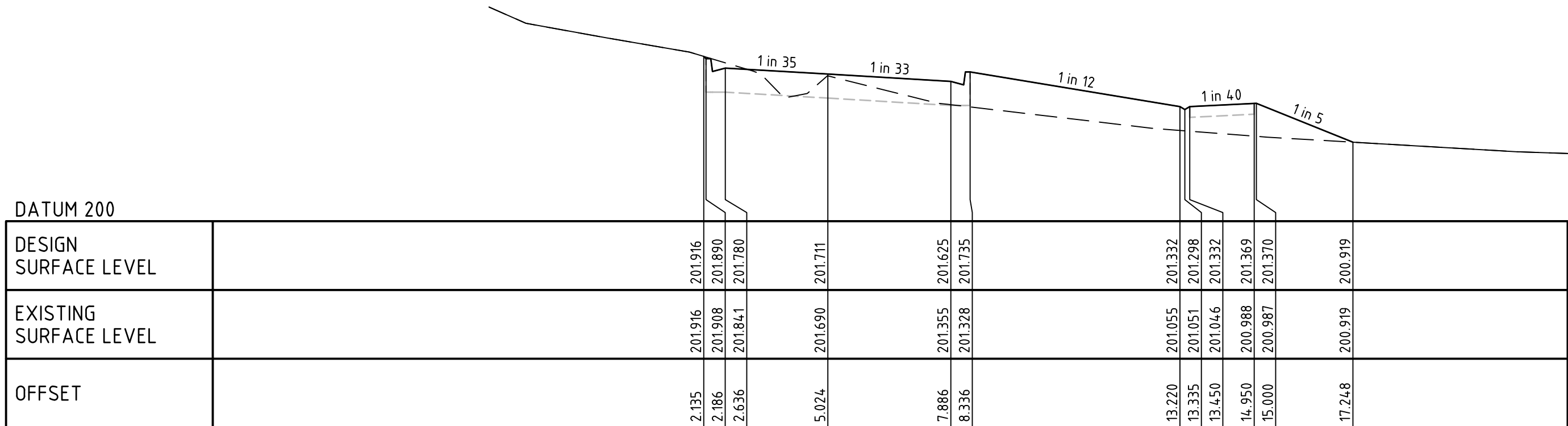
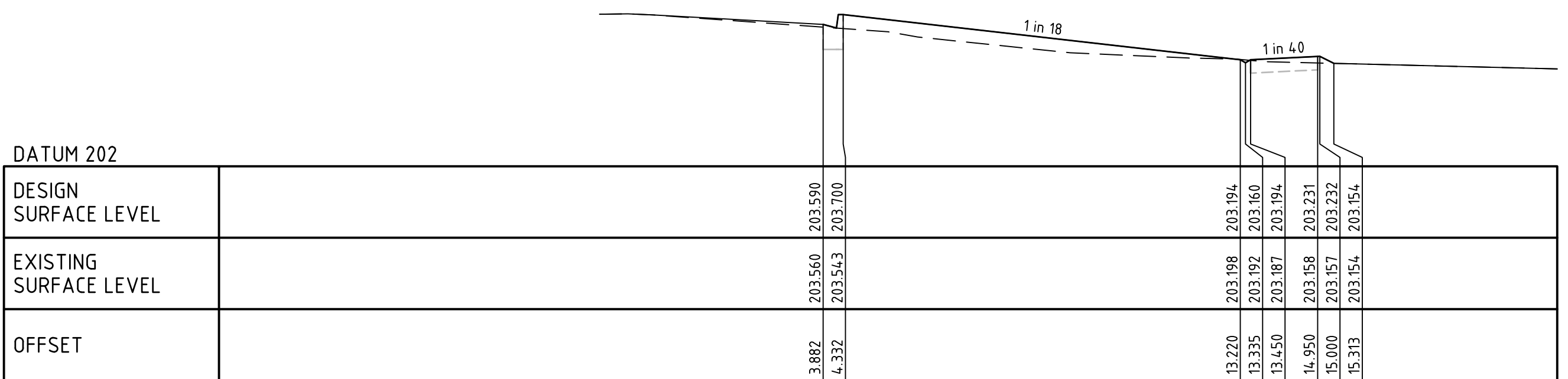
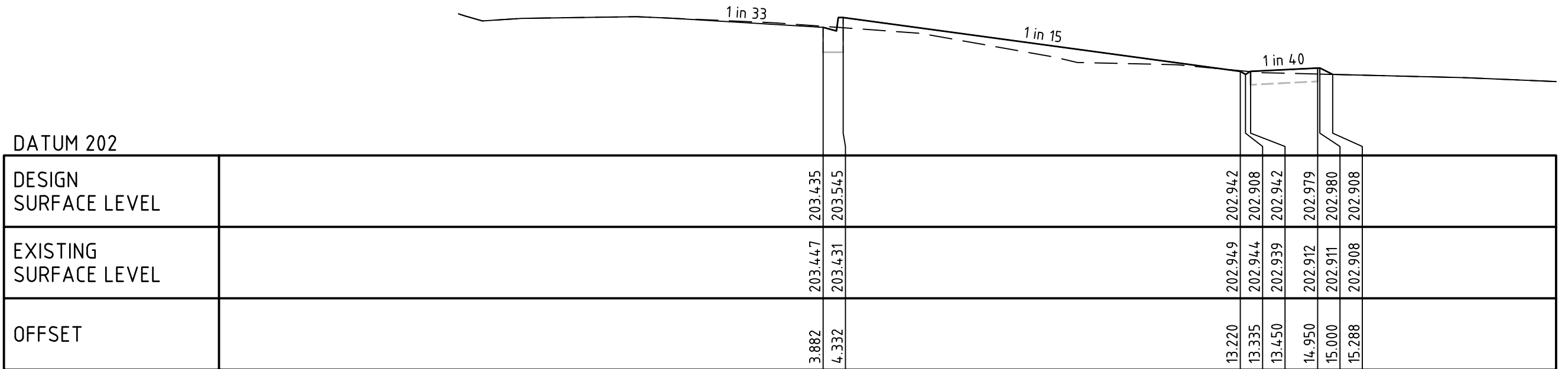
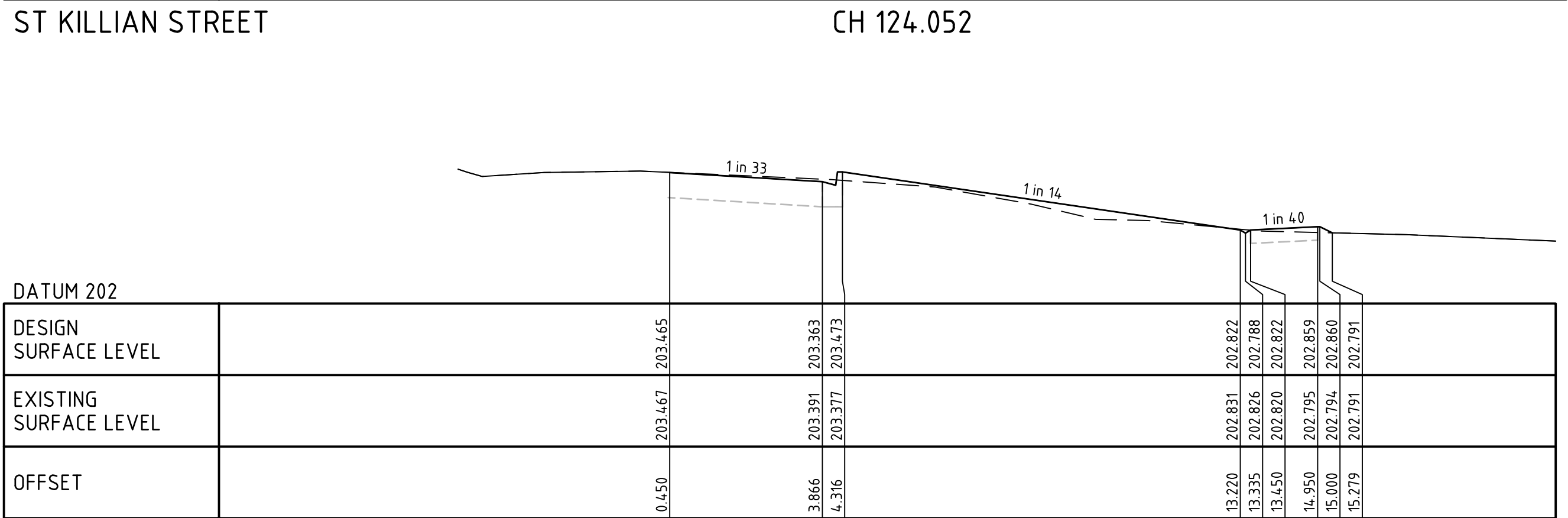
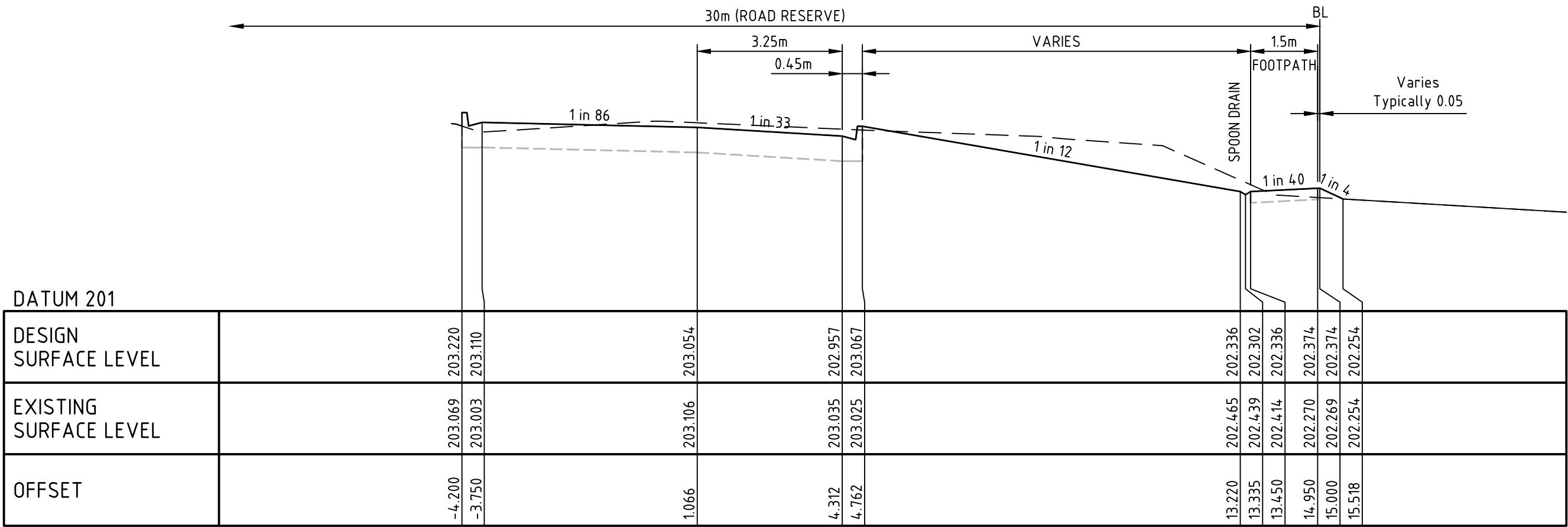
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THE PERCH
STAGE 3
ROAD LONGITUDINAL SECTIONS
04 SHEET TITLE
CITY OF GREATER BENDIGO
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CONSTRUCTION Drg No 302102CR300 Rev -

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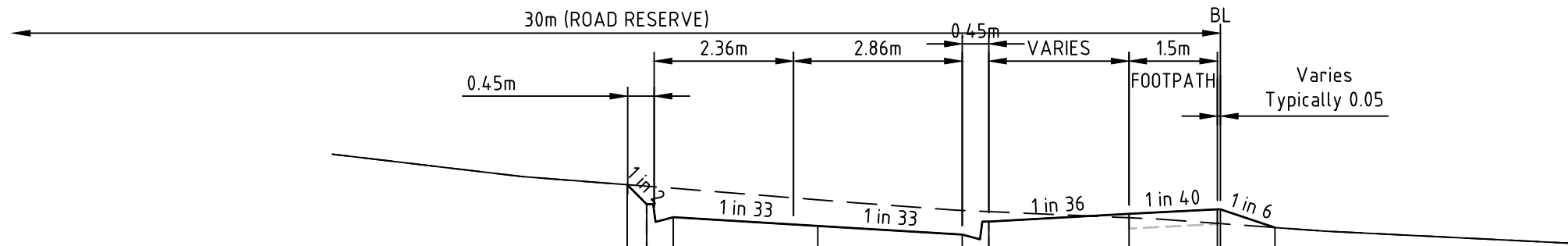
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THE PERCH
STAGE 3
ROAD CROSS SECTIONS
04 SHEET TITLE
CITY OF GREATER BENDIGO
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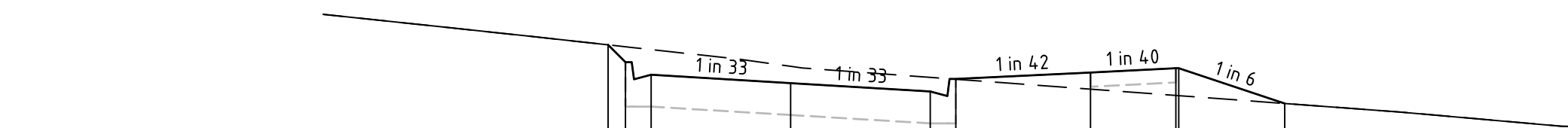
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DATUM 198	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

ST KILLIAN STREET

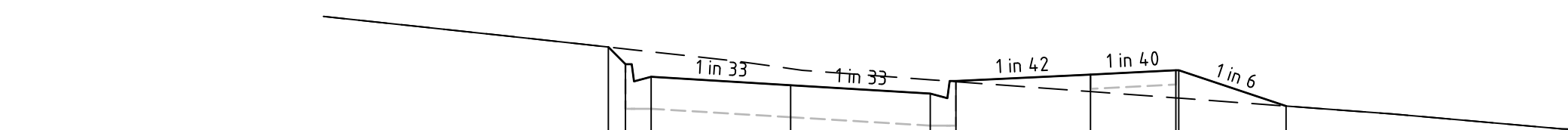
CH 168.666



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EXISTING SURFACE LEVEL	
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ST KILLIAN STREET

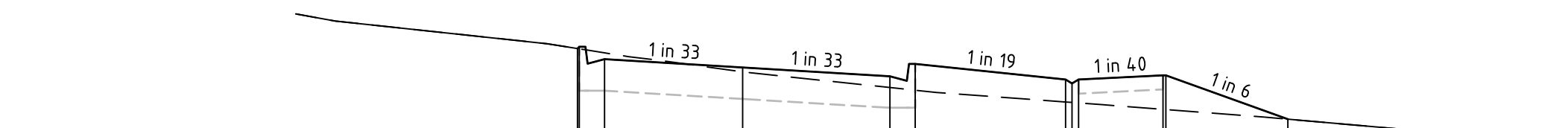
CH 158.687



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OFFSET	

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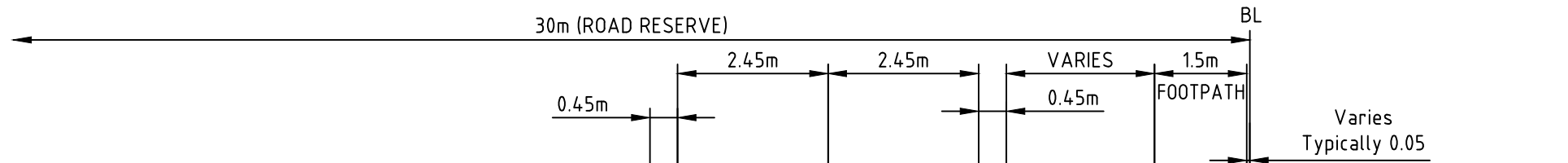
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EXISTING SURFACE LEVEL	
OFFSET	

ST KILLIAN STREET

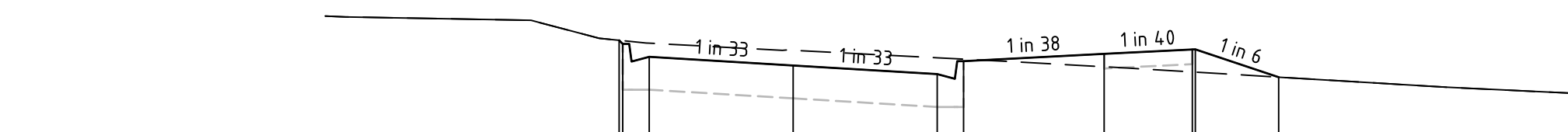
CH 148.610



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EXISTING SURFACE LEVEL	
OFFSET	

ST KILLIAN STREET

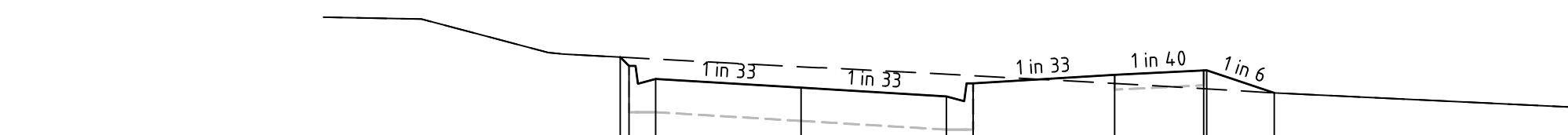
CH 193.000



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EXISTING SURFACE LEVEL	
OFFSET	

ST KILLIAN STREET

CH 178.672

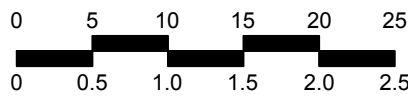


DATUM 198	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

ST KILLIAN STREET

CH 175.000

H 1:500
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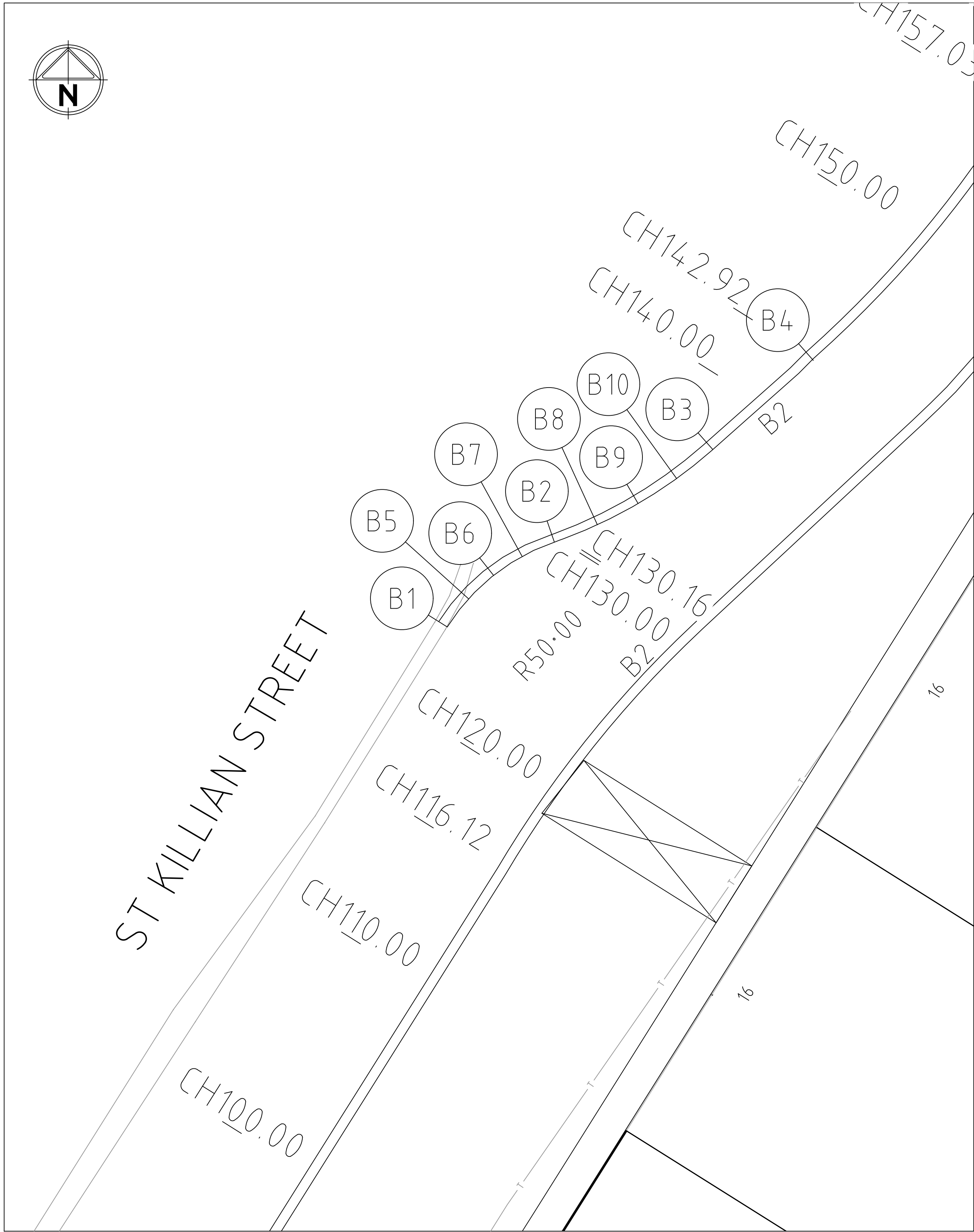
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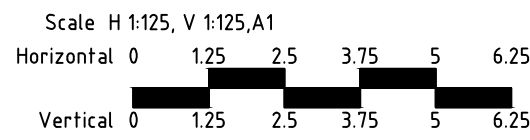
THE PERCH
STAGE 3
ROAD CROSS SECTIONS
04 SHEET TITLE
CITY OF GREATER BENDIGO
JLEJ INVESTMENTS PTY LTD

CONSTRUCTION Drg No **302102CR401** Rev **-**

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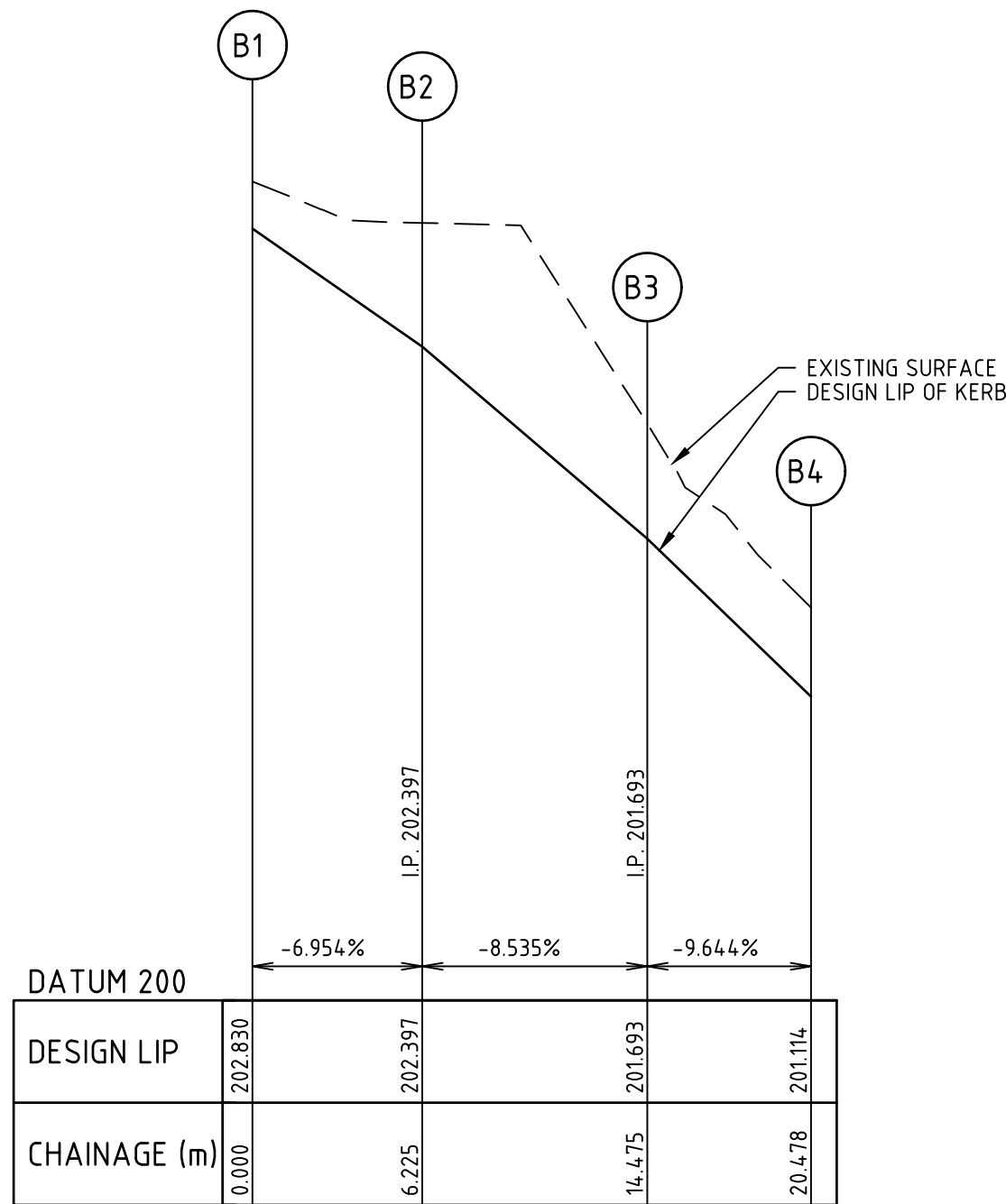
FOOTPATH DETAIL PLAN
EASTERN END OF SCOTT STREET



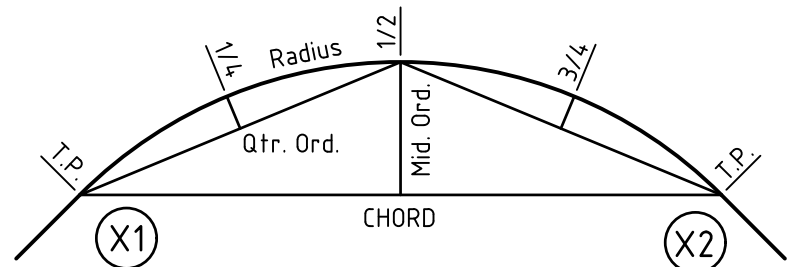
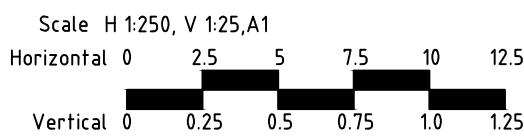
KERB B

	Point no	Easting	Northing	RL
B	1	259192.107	5932911.730	202.830
B	2	259196.892	5932915.525	202.397
B	3	259203.971	5932919.655	201.693
B	4	259208.464	5932923.636	201.114
B	5	259193.043	5932912.972	202.722
B	6	259194.174	5932914.037	202.614
B	7	259195.470	5932914.896	202.505
B	8	259198.806	5932916.290	202.221
B	9	259200.636	5932917.240	202.045
B	10	259202.363	5932918.365	201.869

	Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
B	0	2	38.885	9.173	6.225	0.523	1.504	1.549	1.556	202.614
B	2	3	-22.575	-20.939	8.250	0.405	2.039	2.059	2.062	202.045



KERB B



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date

Scale
AS SHOWN



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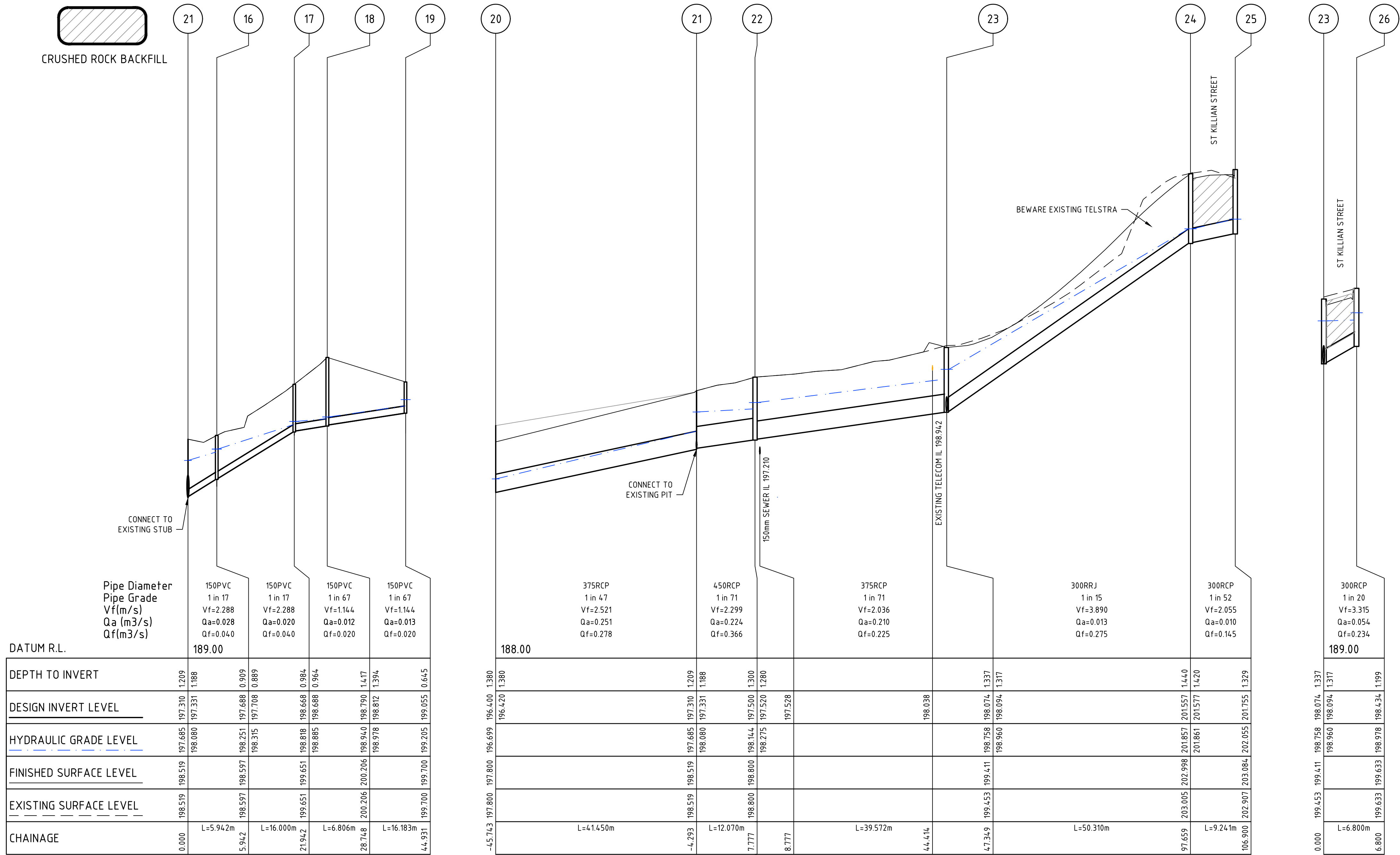
THE PERCH
STAGE 3
INTERSECTION DETAILS
04 SHEET TITLE
CITY OF GREATER BENDIGO
JLEJ INVESTMENTS PTY LTD

CONSTRUCTION Drg No **302102R5-1** Rev **-**

DRAINAGE PIT SCHEDULE

PIT		SET OUT CO-ORDINATES		INTERNAL DIMENSIONS		INLET		OUTLET		PIT		REMARKS
No.	TYPE	EASTING	NORTHING	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
16	GEP	259255.543	5932909.902	450	450	150	197.708	150	197.688	198.597	0.91	
17	GEP	259247.030	5932896.355	450	450	150	198.688	150	198.668	199.651	0.98	
18	GEP	259243.409	5932890.592	600	900	150	198.812	150	198.790	200.206	1.42	
19	GEP	259254.965	5932879.263	450	450			150	199.055	199.700	0.65	
20	EXISTING PIT	259294.643	5932893.648	0	0	375	196.420	375		197.800	1.38	
21	EXISTING GEP	259258.971	5932914.756	600	900	150	197.331	375		198.519	1.21	CONNECT TO EXISTING PIT
						450	197.331	375	197.310			
22	GEP	259265.120	5932925.143	600	900	375	197.520	450	197.500	198.800	1.30	REFER IDM STD DRG 430
23	SEP	259231.613	5932946.196	600	900	300	198.094	375	198.074	199.411	1.34	
						300	198.094	375				
24	SEP	259199.965	5932907.504	600	900	300	201.577	300	201.557	202.998	1.44	REFER IDM STD DRG 430
25	SEP	259192.976	5932913.549	600	900			300	201.755	203.084	1.33	REFER IDM STD DRG 430
26	SEP	259225.855	5932949.813	600	900			300	198.434	199.633	1.20	REFER IDM STD DRG 430

NOTES:
1. PIT SETOUT COORDINATES ARE TO PIT CENTRE
2. PIT FS LEVEL IS TO PIT COVER LEVEL



DRAINAGE NOTES

1. ALL DRAINAGE PIPES & PITS ARE TO BE AT 1m OFFSET TO PROPERTY BOUNDARIES UNLESS SHOWN OTHERWISE
2. THE CONTRACTOR MUST CONTACT SERVICING AUTHORITIES TO ARRANGE SERVICE LOCATIONS PRIOR TO COMMENCEMENT OF EXCAVATION FOR THIS PROJECT
3. PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE MUNICIPALITY. STEEL GRATES ARE TO BE HOT DIP GALVANISED AFTER MANUFACTURE. THE TOP OF ALL GRATES MUST BE APPROXIMATELY 150mm BELOW THE SURROUNDING SURFACE LEVEL. PROPERTY DRAINAGE CONNECTIONS ARE TO BE PROVIDED AS NECESSARY
4. ALL SIDE ENTRY PITS IN ROLLOVER KERB & CHANNEL ARE TO BE CONSTRUCTED USING AN APPROVED ROLLOVER TYPE LINTEL OR A REINFORCED ROLLOVER PROFILE PIT LID. STANDARD SQUARE PROFILE PIT LIDS WITHOUT LINTEL ARE NOT ACCEPTABLE.
5. TRENCHES WITHIN PAVEMENT OR FOOTPATH AREAS ARE TO BE BACKFILLED WITH 3% CEMENT STABILISED CLASS 1 FCR. THE TRENCH IS TO BE BACKFILLED IN 150MM LAYERS AND CONSOLIDATED.
6. ALL PIPE STUBS ARE TO CONSIST OF ONE FULL PIPE LENGTH UNLESS SHOWN OTHERWISE.
7. FINISHED LEVELS FOR SIDE ENTRY PITS MUST BE DETERMINED FROM KERB LEVELS AND SHOULD BE SLOPED TO SUIT NATURESTRIPS ETC. THE FSLs INDICATED IN THE PIT SCHEDULE ARE NOT KERB LEVELS.
8. STEP IRONS ARE NOT REQUIRED IN DRAINAGE PITS.
9. CONCRETE PIPES ARE TO BE CLASS 2 FJ RCP AND PVC PIPES ARE TO BE CLASS S8B UNLESS OTHERWISE NOTED.
10. ALL EXCAVATIONS FOR DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE VICTORIAN WORK COVER AUTHORITY.
11. REINFORCEMENT BARS SHALL COMPLY WITH AS1302/1991, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MM. AND CLEAR COVER 50 MM.
12. CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER. COMPLYING WITH THE REQUIREMENTS OF AS1379.
13. ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS3600.
14. DIRECT CONNECTION OF PVC HOUSE DRAIN TO RCP DRAINAGE TO BE CONSTRUCTED WITH "CONCONNECT" OR APPROVED EQUIVALENT FITTING. 150mmØ PVC PIPES ARE NOT TO BE DIRECTLY CONNECTED TO CONCRETE PIPES LESS THAN 450mmØ IN DIAMETER. WHERE FURTHER SUBDIVISION OF THE LOT CONCERNED IS NOT PRACTICAL A 100mmØ HOUSE CONNECTION PIPE MAY BE USED.
15. WHERE PVC HOUSE CONNECTIONS ARE MADE DIRECTLY TO PIPES, THE HOUSE CONNECTION IS TO BE RAISED TO SURFACE LEVEL WITHIN THE PROPERTY AND CAPPED AS PER SDS20.
16. COMPACTION REQUIREMENTS - ANY BACKFILL WITHIN 1m OF A COUNCIL ASSET (EG FOOTPATH OR ROAD) IS REQUIRED TO BE FCR. ALTERNATIVELY OTHER FILL MATERIAL CAN BE USED PROVIDED COMPACTION TESTS ARE CARRIED OUT TO ENSURE 95% COMPACTION IS ACHIEVED. TESTS TO BE CARRIED OUT AT A MINIMUM OF 1 PER 60m OF TRENCH.

Rev	Amendments	Approved	Date



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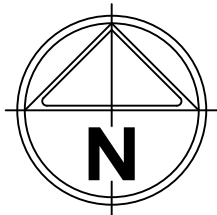
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Authorised	Date

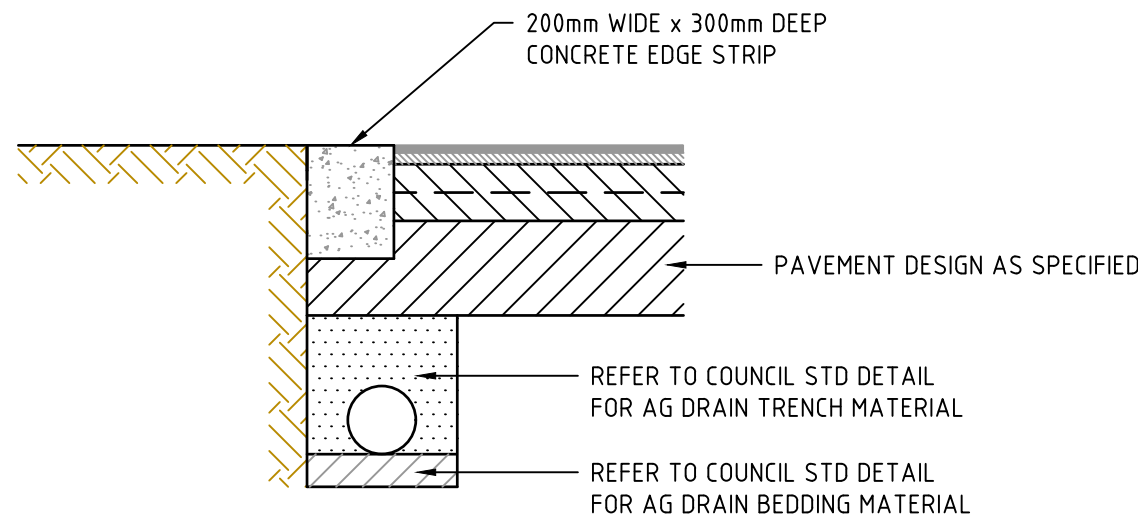
THE PERCH
STAGE 3
DRAINAGE LONG SECTIONS
04 SHEET TITLE
CITY OF GREATER BENDIGO
JLEJ INVESTMENTS PTY LTD

CONSTRUCTION Drg No **302102CR600**

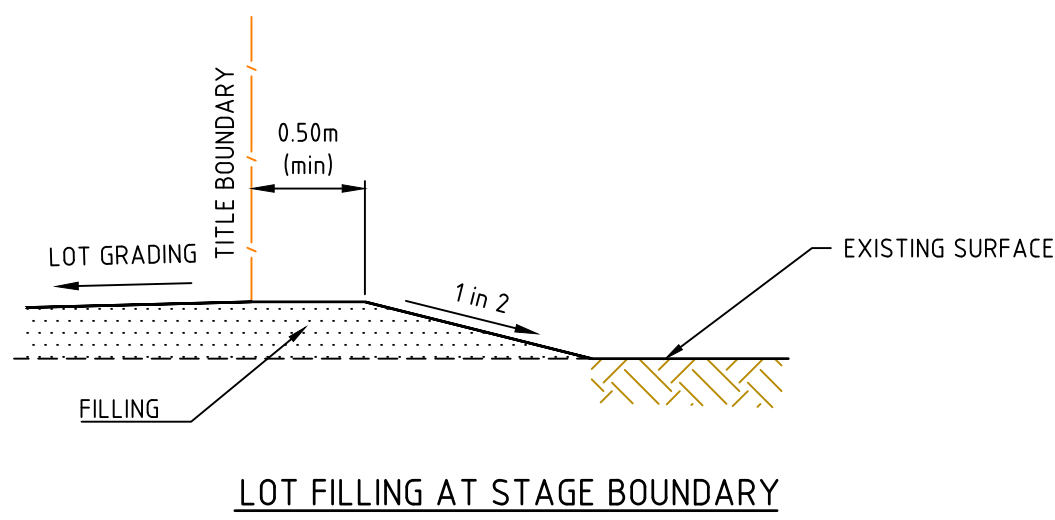


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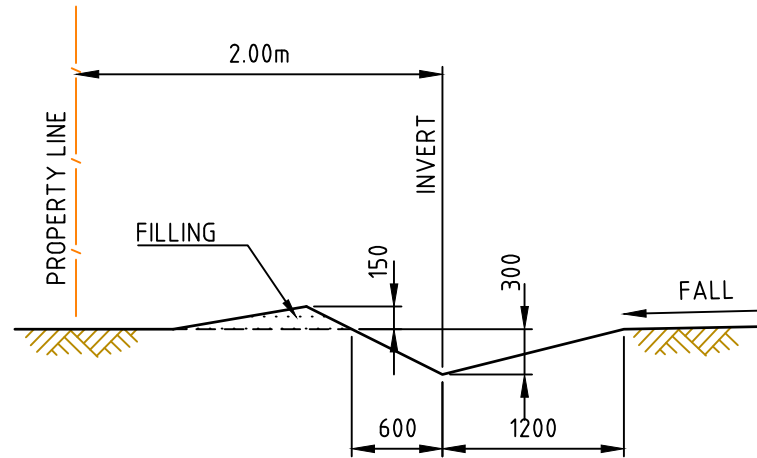
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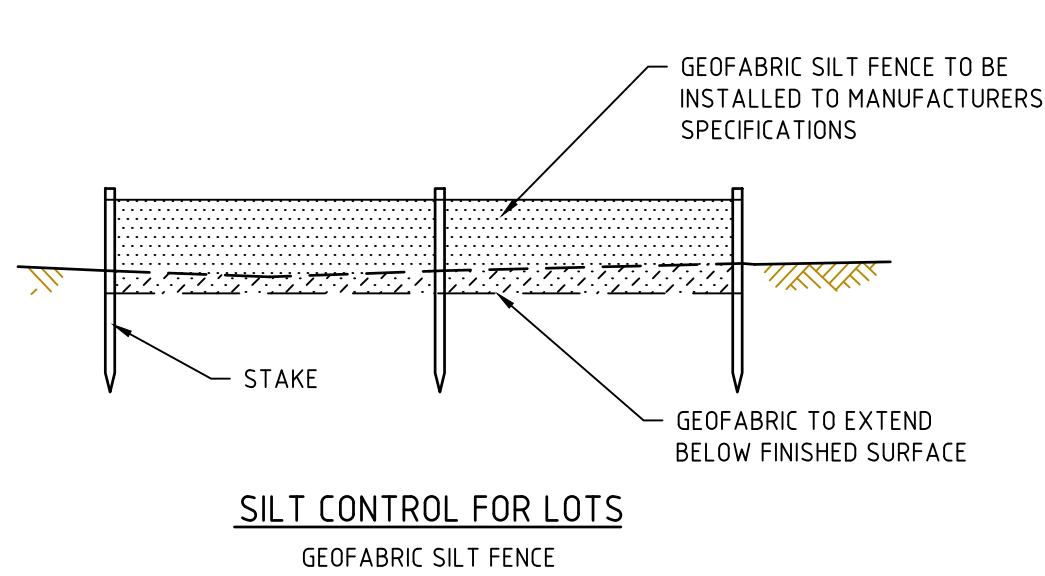
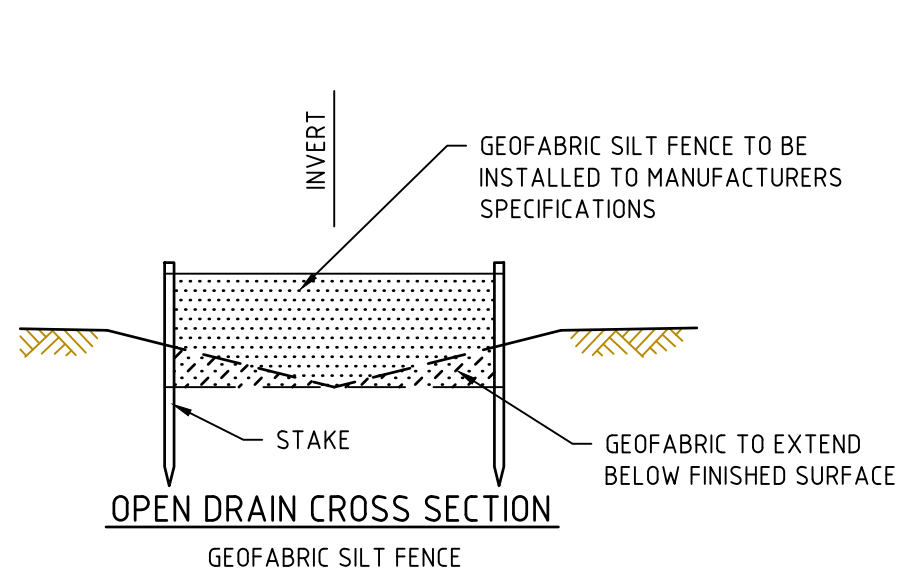
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



LOT FILLING AT STAGE BOUNDARY

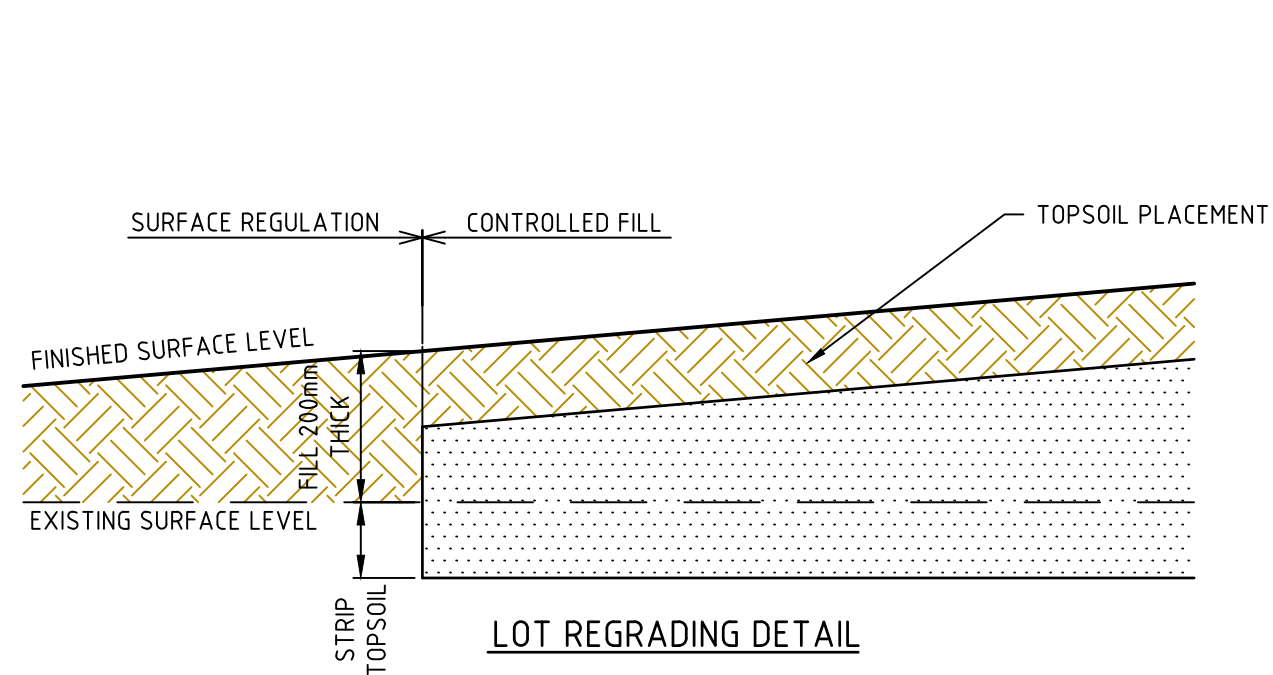


TYPICAL CATCH DRAIN SECTION

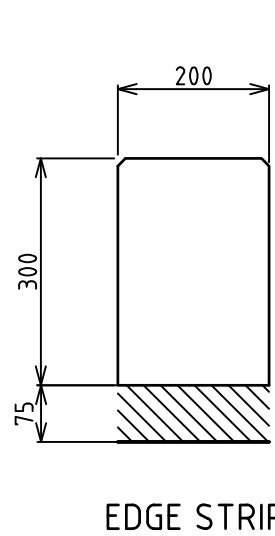


SILT CONTROL OPTIONS

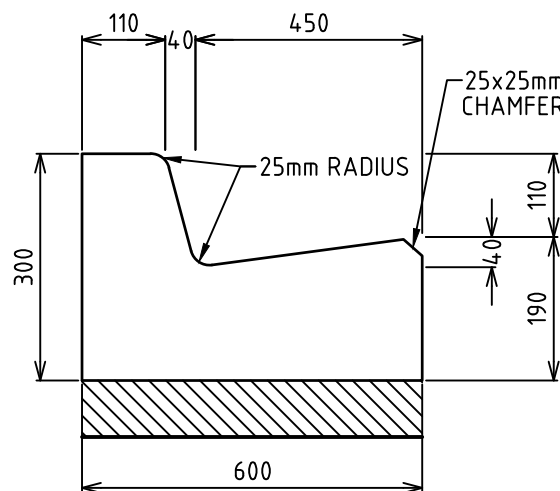
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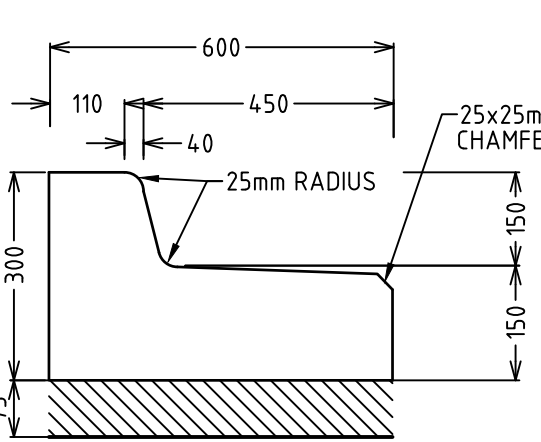
LOT REGRADING DETAIL



EDGE STRIP



B2



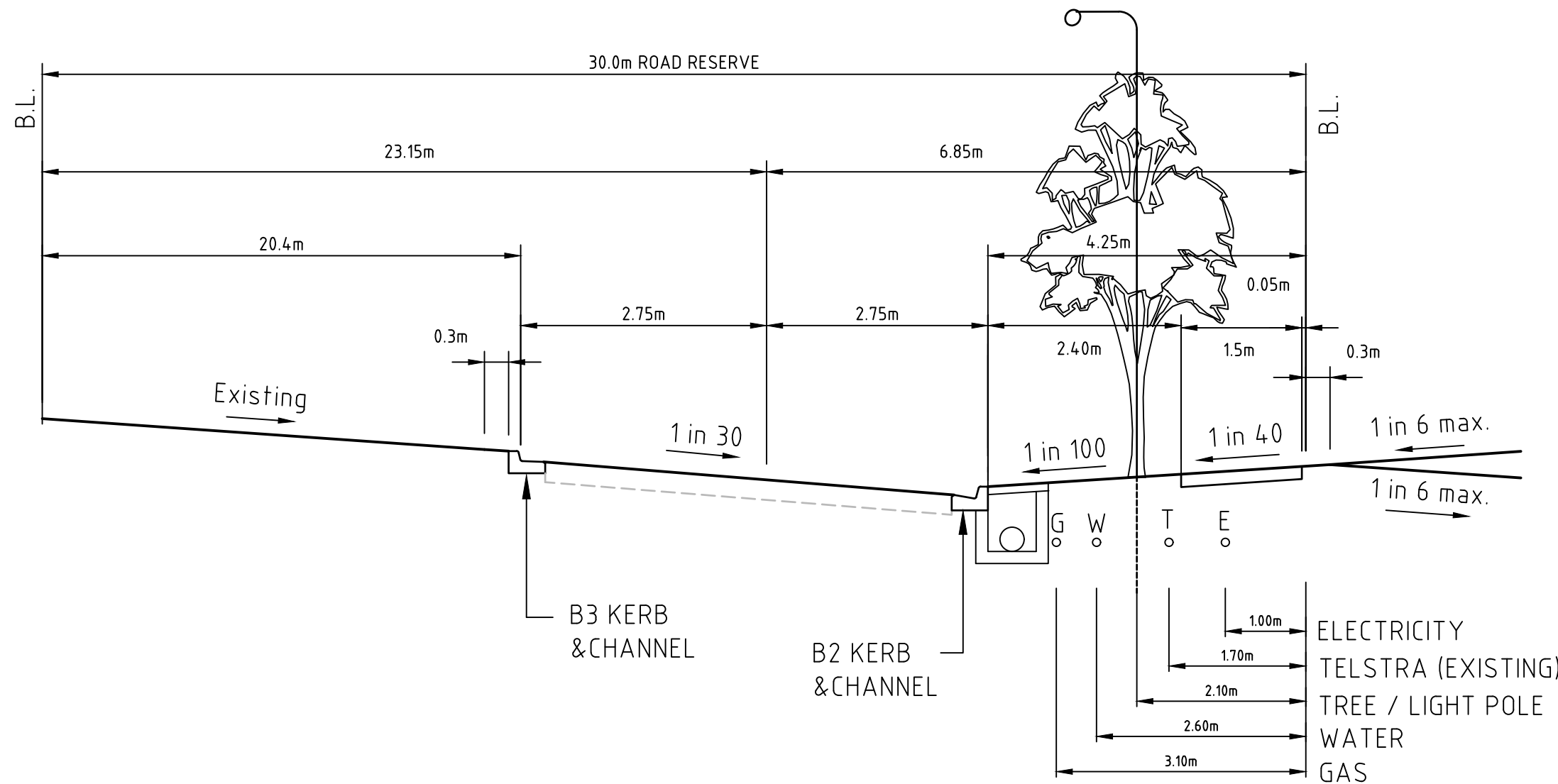
B3

STANDARD KERB PROFILES

NOT TO SCALE

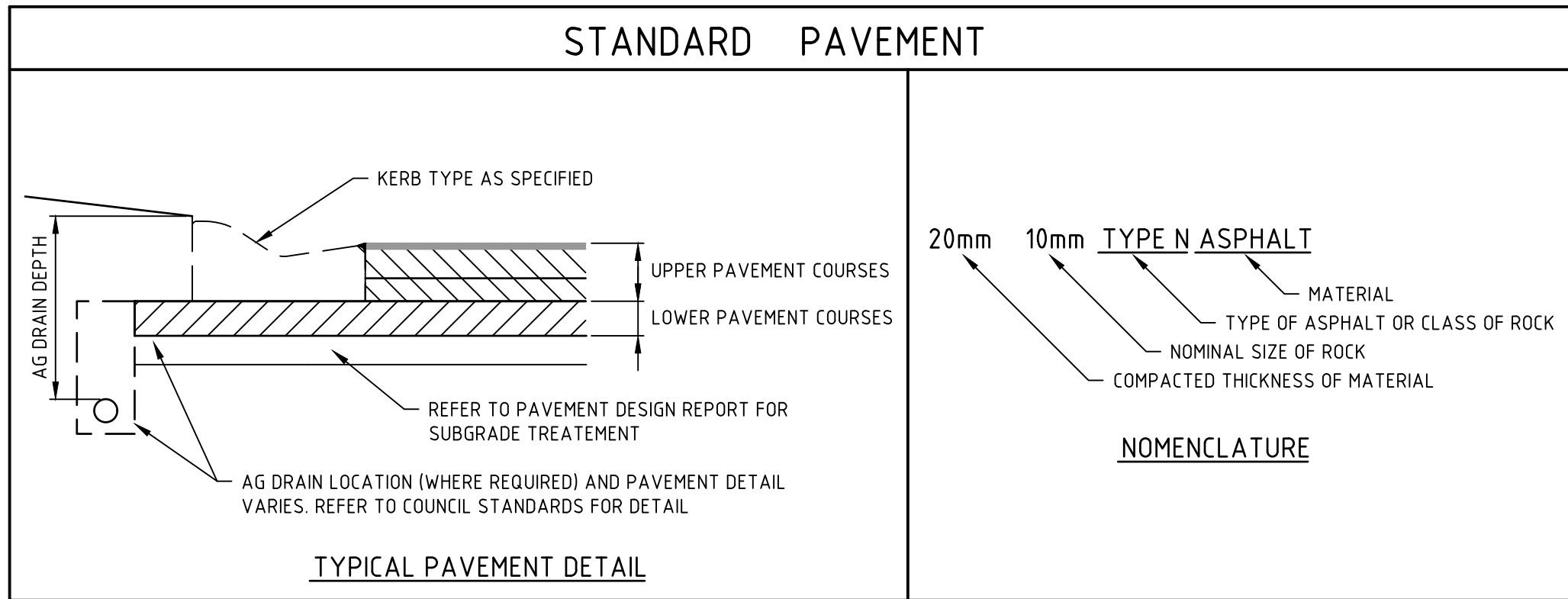
NOTES:

1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
2. ALL KERBS AND KERB & CHANNEL TO HAVE 150mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.



ST KILLIAN STREET

5.5m CARRIAGEWAY (CH157.03-194.03)



TYPICAL PAVEMENT DETAIL

NOMENCLATURE

PAVEMENTS		
STREET NAME	ST. KILLIAN ST (WIDENING) SCOTT ST (WIDENING)	ST. KILLIAN ST (CH120-194) (REFER GTS Report 16C 0197) To be revised subject to re-approval.
PAVEMENT THICKNESS	250	370
ASPHALT SEAL (mm) WITH PRIME	30mm	30mm
BASE COURSE (mm) CLASS 2 20mm FCR	120mm	140mm
SUBBASE BASE (mm) CLASS 3. 20mm or 40mm FCR	100mm	200mm

GENERAL NOTES

1. PAVEMENT DETAILS SHOWN ABOVE
2. NATURE STRIPS ARE TO BE TOPSOILED WITH MATERIAL STOCKPILED FROM STRIPPING TO A DEPTH OF 100mm. IMPORTED TOPSOIL AND/OR SEEDING MAY BE REQUIRED TO PROVIDE GOOD GRASS COVER.
3. LOCATION OF ALL SERVICE CONDUITS IS TO BE MARKED ON THE FACE OF BOTH KERBS WITH A UNIFORM 50mm DIAMETER MARK, 5mm DEEP. WATER & GAS CONDUITS TO BE 50mm DIAMETER CLASS 12 uPVC PIPE. POWER & TELSTRA CONDUITS ARE AS SPECIFIED ON THEIR RESPECTIVE PLANS.

NOT TO SCALE



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Designed

Checked

Authorised

Date

THE PERCH
STAGE 3
PAVEMENT AND TYPICAL DETAILS
04 SHEET TITLE
CITY OF GREATER BENDIGO
JLEJ INVESTMENTS PTY LTD

CONSTRUCTION Drg No 302102CR700 Rev -

THE PERCH - STAGE 3

73-77 KENNEWELL ST, WHITE HILLS

JLEJ INVESTMENTS PTY LTD

POTABLE WATER RETICULATION

WATER NOTES :

- ALL WORKS TO BE IN ACCORDANCE WITH WSA 03-2011-3.1 WATER SUPPLY CODE OF AUSTRALIA, MELBOURNE RETAIL WATER AGENCIES EDITION, VERSION 1.0 AND THE COLIBAN WATER SUPPLEMENT TO THE CODE.
- ALL MATERIALS ARE TO BE IN ACCORDANCE WITH COLIBAN WATER'S PREFERRED EQUIPMENT MANUFACTURERS LIST.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL LEVELS ARE IN METRES AND TO A.H.D.
- CLASS 3 FCR BACKFILL MUST BE USED WHERE MAINS ARE LOCATED UNDER ROADWAYS, DRIVEWAYS OR FOOTPATHS.
- ALL D.I.C.L. PIPES TO BE INSTALLED WITH POLYETHYLENE SLEEVES. DICL PIPES INSTALLED UNDER ROADWAYS ARE TO EXTEND AT LEAST 3M BEYOND THE EXTENSION OF THE PROPERTY LINES. ALL TEE'S AND BENDS TO BE DICL
- ALL VALVES TO BE A.S.2638 CLASS 14 - ANTI CLOCKWISE CLOSING.
- ALL FLANGES TO BE A.S.2129 TABLE "C".
- TRAFFIC MANAGEMENT TO BE IN ACCORDANCE WITH A.S.1742.3 (TRAFFIC CONTROL DEVICE FOR WORKS IN ROADS).
- A 20 MPa CONCRETE THRUST OR SUPPORT BLOCK TO BE CONSTRUCTED BEHIND ALL BENDS, TEES, VALVES AND BLANK ENDS ON ALL WATER MAINS. FOR DETAILS REFER TO STANDARD DETAIL DRAWING No. WAT-1205.
- ALL HANDLING OF ASBESTOS CEMENT PIPES & FITTINGS TO BE CARRIED OUT IN ACCORDANCE WITH GENERAL SPECIFICATION FOR CONSTRUCTION OF PRESSURE PIPES.
- ALL GIBAULT, FLANGE & WELDED JOINTS, TAPPING SADDLE BOLTS & NUTS & VALVE STUFFING BOXES TO HAVE THE FOLLOWING PROTECTION - DENSO 300 PRIMER, 400 MASTIC, 600 TAPE & 931 OVERWRAP APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- GAS & WATER MAINS TO BE LAID IN A COMMON TRENCH.
- LAY MAINS OVER DRAINS UNLESS SHOWN OTHERWISE.
- USE EXTREME CARE WHEN WORKING NEAR EXISTING TREES TO MINIMISE DAMAGE TO ROOT SYSTEM & CANOPY.
- ALL TREES MUST BE PRESERVED AND PROTECTED AT ALL TIMES. TREES MARKED **X** ON DESIGN PLANS MAY BE REMOVED.
- NOTE TO CONTRACTOR: THE CONSULTING ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE WORKS. ANY PROBLEMS ARISING DURING THE CONSTRUCTION SHALL BE DIRECTED TO THE CONSULTANT.
- NO BLASTING IS PERMITTED WITHIN 20m OF EXISTING WATER MAINS.

- THE LOCATION AND DEPTH OF ANY EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. FOR ASSISTANCE IN LOCATING SERVICES OR IN AN EMERGENCY, TELEPHONE "DIAL BEFORE YOU DIG" (Ph 1100)
- THE MAXIMUM DEPTH FROM THE SURFACE LEVEL TO TOP OF PIPE MUST NOT EXCEED 150m.
- CONTRACT IS IN ACCORDANCE WITH AS2124-1992
- THIS DESIGN COMPLIES WITH COLIBAN WATER STANDARDS AND THE SUPPLY OFFER WME xxxxx DATED xxxxxxx
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE DISINFECTION OF WATER MAINS IS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH WSA 03-2011-3.1 APPENDIX I "DISINFECTION OF WATER MAINS"

TOTAL WORK SCHEDULE			
SIZE (mm)	TYPE	CLASS	LENGTH (m)
100	mPVC	PN 16	30

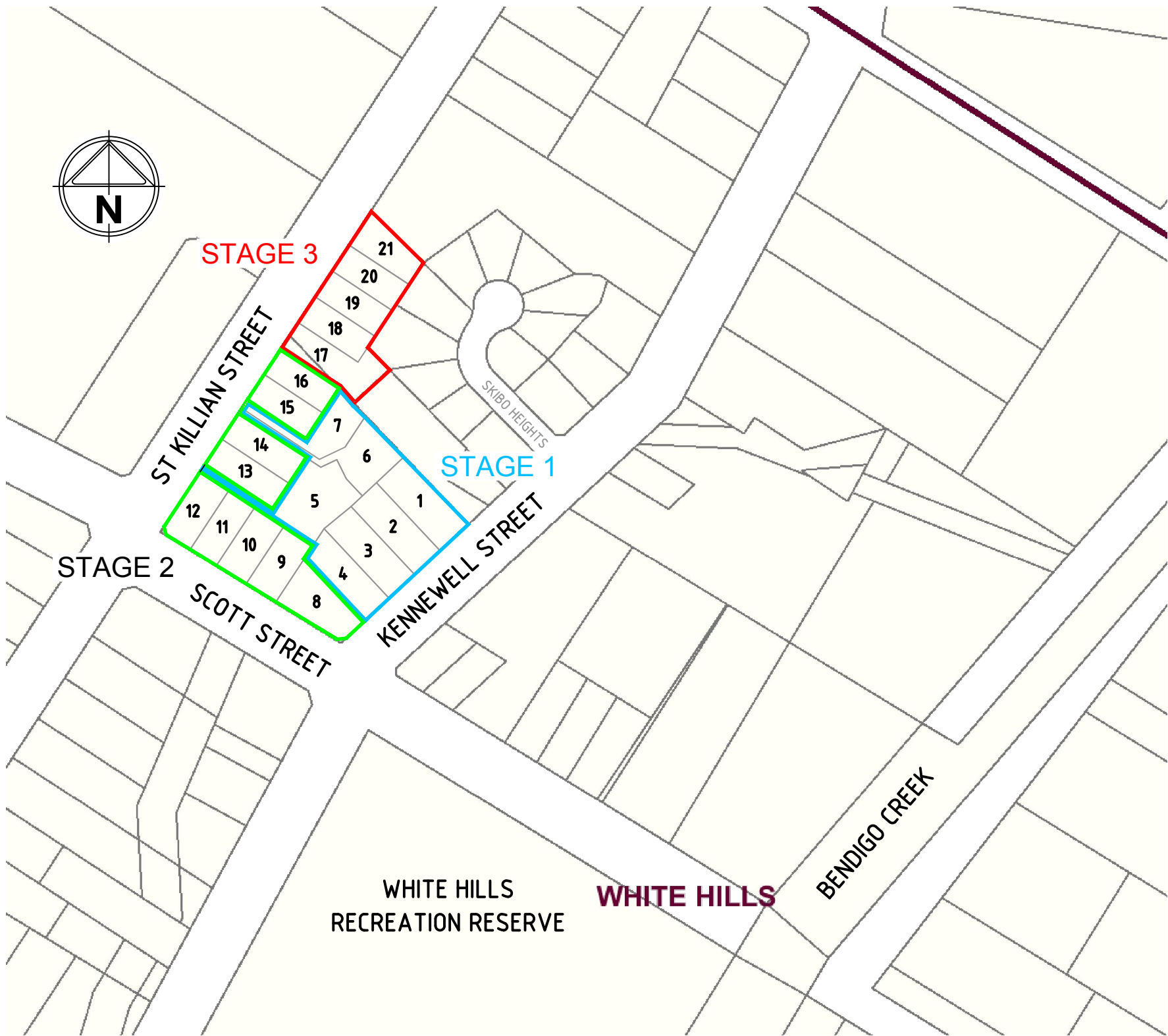
WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
KENNEWELL STREET	W	3.4 (EX)	E	4.0 (EX)	W	15 (EX)	E	3.0 (EX)	E	4.5
SCOTT STREET	N	5.0 (EX)	N	3.6 (EX)	N	2.6 (EX)	-	-	-	-
ST KILLIAN STREET (CH 7.00 - 28.00)	E	7.75	E	Varies	E	2.7	W	4.0 (EX)	E	2.2
ST KILLIAN STREET (CH 47.00 - 100.00)	E	3.95	E	4.4	E	2.7	W	4.0 (EX)	E	2.2
ST KILLIAN STREET (CH 100.00 - 130.16)	E	3.95-3.1	E	4.4-3.55	E	Varies	-	-	E	Varies
ST KILLIAN STREET (CH 130.16 - 194.03)	E	2.5	E	2.95	E	1.75 (EX)	-	-	E	1.0

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- * = OFFSET FROM BACK OF KERB
- (EX) = SERVICE IS EXISTING
- (Var) = SERVICE OFFSET CAN VARY IN SECTIONS



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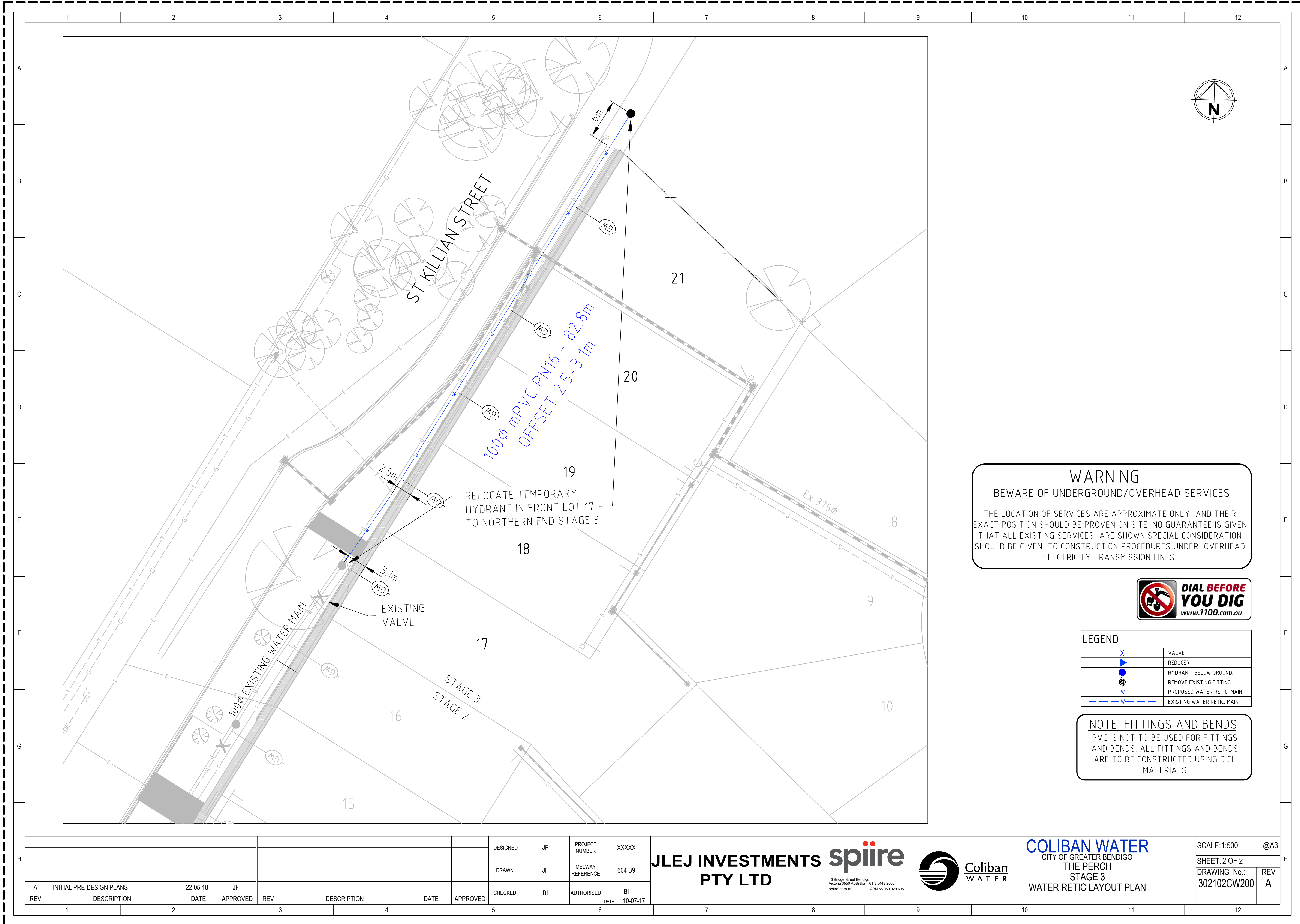
								DESIGNED	JF	PROJECT NUMBER	WME 18151
								DRAWN	JF	MELWAY REFERENCE	604 B9
A	INITIAL PRE-DESIGN PLANS	22-05-18	JF					CHECKED	BI	AUTHORISED	BI
REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED				DATE: 10-07-17
1				3				5		6	

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COLIBAN WATER
CITY OF GREATER BENDIGO
THE PERCH
STAGE 3
WATER RETIC GENERAL NOTES

SCALE: NOT TO SCALE
SHEET: 1 OF 2
DRAWING No.: 302102CW100
REV A



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES

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LEGEND	
X	VALVE
▶	REDUCER
●	HYDRANT, BELOW GROUND
⊗	REMOVE EXISTING FITTING
—W—	PROPOSED WATER RETIC. MAIN
- - -W - - -	EXISTING WATER RETIC. MAIN

NOTE: FITTINGS AND BENDS
PVC IS NOT TO BE USED FOR FITTINGS AND BENDS. ALL FITTINGS AND BENDS ARE TO BE CONSTRUCTED USING DCL MATERIALS

DESIGNED		JF	PROJECT NUMBER	XXXXX
DRAWN		JF	MELWAY REFERENCE	604 B9
CHECKED		BI	AUTHORISED	BI
DATE		10-07-17		
A	INITIAL PRE-DESIGN PLANS	22-05-18	JF	
REV	DESCRIPTION	DATE	APPROVED	REV
1				
2				
3				
4				
5				
6				

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Coliban
WATER

COLIBAN WATER
CITY OF GREATER BENDIGO
THE PERCH
STAGE 3
WATER RETIC LAYOUT PLAN

SCALE: 1:500 @A3
SHEET: 2 OF 2
DRAWING No.: 302102CW200
REV A

THE PERCH

STAGE 3

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SEWERAGE RETICULATION

SEWER NOTES

- ALL LEVELS ARE IN METRES TO AUSTRALIAN HEIGHT DATUM (A.H.D.)
- CO-ORDINATES FOR SETTING OUT, WHERE SHOWN, ARE TO M.G.A.
- WORKS MUST BE CONSTRUCTED ACCORDING TO THE RELEVANT COLIBAN WATER SPECIFICATIONS AND STANDARD DRAWINGS. ALL MATERIALS ARE TO BE IN ACCORDANCE WITH COLIBAN WATER'S PREFERRED EQUIPMENT MANUFACTURERS LIST.
- CHAINAGES WHERE SHOWN ON DETAIL PLANS ARE DISCONTINUOUS AT MAINTENANCE STRUCTURES.
- CHAINAGES SHOWN ON LONGITUDINAL PLANS ARE CONTINUOUS.
- PIPE MATERIAL, UNLESS SHOWN OTHERWISE.

PIPE TYPE	PIPE CLASS	AUSTRALIAN STANDARD	LOCATION
P.V.C.	SN6 OR SN10	A.S. 1260	100MM DIA PROP. BRANCHES
P.V.C.	SN8	A.S. 1260	150MM DIA RETIC. SEWERS

NOTE: SEWERPRO AND UPVC PIPE IS NOT ACCEPTABLE TO COLIBAN WATER.
- ACCESS CHAMBERS
 - ACCESS CHAMBER COVERS SHALL BE LEVEL WITH AND SHALL CONFORM TO SLOPE AND CROSSFALL OF THE FINISHED SURFACE. THE FINISHED SURFACE LEVELS SHOWN ARE APPROXIMATE ONLY. THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE CONSTRUCTION LEVELS INCLUDING COVER GRADES BASED ON THE ROAD AND DRAINAGE PLANS. ALL SEWER COVERS ARE TO BE CONSTRUCTED TO THESE LEVELS. MAXIMUM SLOPE FOR CLASS C OR D COVERS TO BE 1 IN 10. MAXIMUM SLOPE FOR CLASS A OR B COVERS TO BE 1 IN 4.
 - ACCESS CHAMBERS AND INSPECTION SHAFTS IN ROAD RESERVES AND R.O.W.'S CONSTRUCTED PRIOR TO THE CONSTRUCTION OF FOOTPATHS SHALL BE PROVIDED WITH A TEMPORARY COVER. THE PLACING OF THE FINAL COVER SHALL NOT BE CARRIED OUT UNTIL THE CONCRETE FOOTPATH HAS BEEN CONSTRUCTED.
 - ALL ACCESS CHAMBERS TO BE 1070MM DIAMETER UNLESS OTHERWISE SHOWN.
- EARTHWORKS

IN AREAS SUBJECT TO EARTHWORKS, THE CONSTRUCTION OF SEWERS MUST NOT COMMENCE UNTIL THE EARTHWORKS HAVE BEEN COMPLETED OR THE SUPERINTENDENT GIVES WRITTEN APPROVAL TO COMMENCE. SUCH APPROVAL WOULD NOT BE GIVEN UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT THE SEWER WOULD BE SATISFACTORILY PROTECTED AGAINST DAMAGE FROM CONSTRUCTION LOADS.

PVC:
WHERE CLEAR COVER LESS THAN 600MM, TYPE F2C BEDDING AND COVERING SHALL BE PLACED AROUND SEWERS. UNDER ROAD PAVEMENTS WHERE THE CLEARANCE BETWEEN THE TOP AND BOTTOM OF BOXING AND TOP OF SEWER IS LESS THAN 900MM, TYPE F2C BEDDING AND COVERING SHALL BE PLACED AROUND SEWERS.
- THE CONTRACT IS IN ACCORDANCE WITH AS2124-1992. IN ACCORDANCE WITH CLAUSE 15 OF AS2124-1992, THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTORS EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT THE SITE.
- COLIBAN WATER MUST BE NOTIFIED BY THE CONTRACTOR FIVE WORKING DAYS PRIOR TO COMMENCING WORKS ON EXISTING SEWER.
- CONNECTION TO LIVE SEWER: CONFINED SPACE ENTRY MUST BE IN ACCORDANCE WITH BOTH COLIBAN WATER AND OH&S REQUIREMENTS. CONTRACTOR MUST NOT ENTER A CONFINED SPACE UNTIL ALL REQUIRED INFORMATION HAS BEEN SUBMITTED TO COLIBAN WATER.
- PROPERTY BRANCH FITTINGS MUST BE LOCATED AT LEAST 0.5M WITHIN PROPERTY BEING SERVICED, AND CLEAR OF ANY OBSTRUCTIONS. PROPERTY CONNECTION POINT JUMP UPS ARE TO BE FINISHED AT SURFACE LEVEL AS PER COLIBAN WATER ANNEXURE TO WSAA02-2002-2.3
- 7 CLEAR DAYS NOTICE PRIOR TO COMMENCEMENT OF THE WORKS MUST BE GIVEN TO THE SUPERINTENDENT.
- SERVICE CONNECTIONS

ALL NEW SERVICE CONNECTIONS MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF COLIBAN WATERS SPECIFICATION OF WORKS FOR CONSTRUCTION OF RETICULATION SEWERS AND ASSOCIATED STRUCTURES, AS3500 AND THE SEWERAGE STANDARD DRAWINGS.

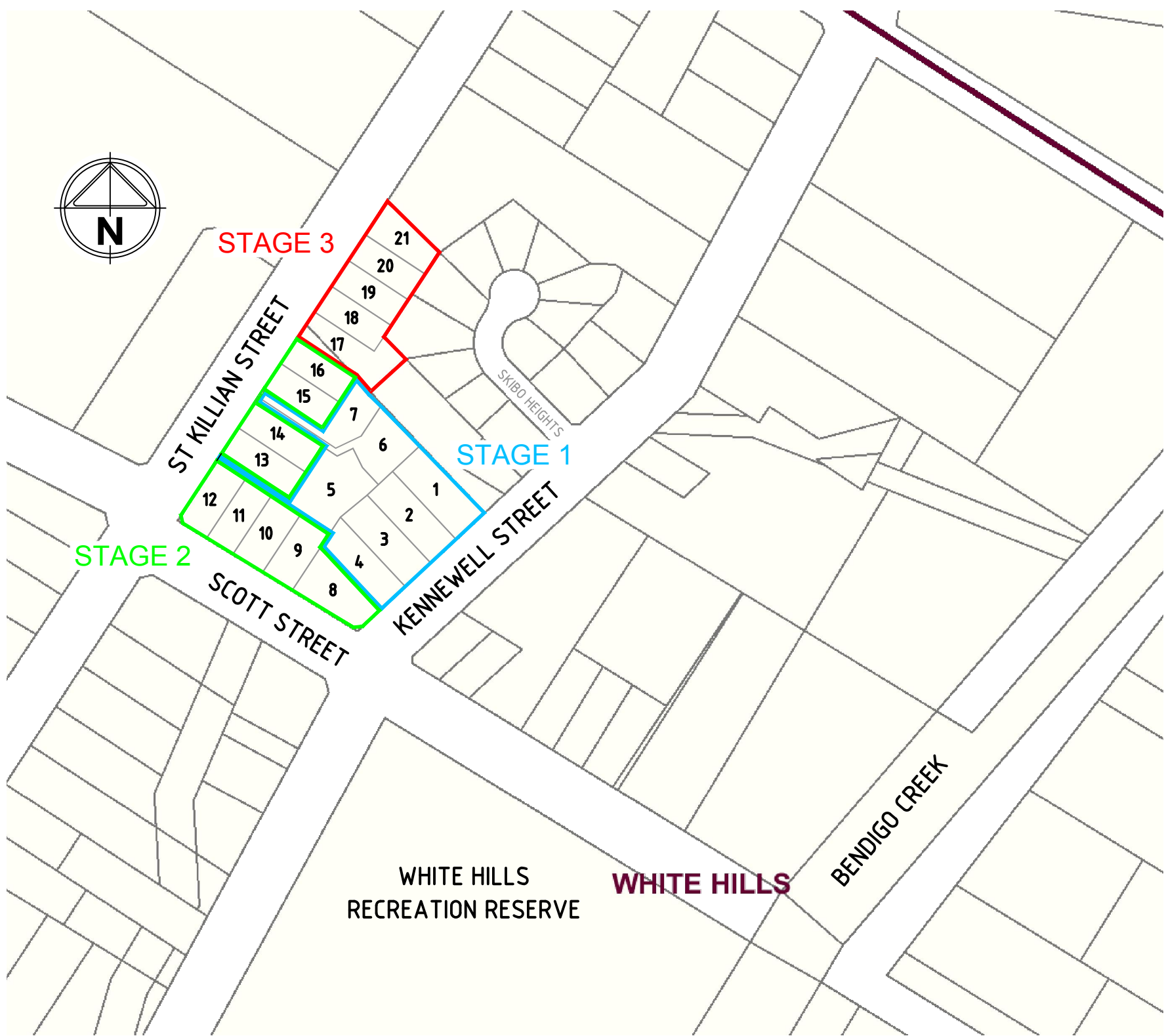
- BLASTING NO BLASTING IS PERMITTED.
- TESTING

ALL NEW SEWERS MUST BE PRESSURE TESTED. WHERE THE CONTRACTOR DOES NOT HAVE A QUALITY ASSURANCE SYSTEM IN PLACE, ALL PIPES MUST BE INSPECTED BY THE SUPERVISING ENGINEER.
- ENVIRONMENTAL REQUIREMENTS
 - ALL TREES MUST BE PRESERVED AND PROTECTED AT ALL TIMES.
 - TREES MARKED X ON THE DESIGN PLANS MAY BE REMOVED.
- WI N25 GRADE CONCRETE - GP TYPE CEMENT MUST BE USED IN ALL CONSTRUCTION, UNLESS OTHERWISE NOTED IN COLIBAN WATERS SEWER DESIGN MANUAL.
- SEWER SETOUTS
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE HORIZONTAL ALIGNMENT AND FOR OFFSETTING PEGS DURING CONSTRUCTION.
 - SETOUT AND VERIFICATION OF LEVELS SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- THIS DESIGN COMPLIES WITH COLIBAN WATER STANDARDS AND THE SUPPLY OFFER SME xxxxx DATED xx xxxx xxxx
- THE CONTRACTOR MUST LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
- THE LEVEL OF ALL EXISTING OUTFALL SEWERS MUST BE CONFIRMED BY THE CONTRACTOR PRIOR TO WORKS COMMENCING.
- CLASS 3 FCR BACKFILL MUST BE USED WHERE SEWER MAINS CROSS ROAD PAVEMENT, FOOTPATHS OR DEFINED DRIVEWAYS.
- PROPERTY CONNECTION POINT JUMP UPS ARE TO BE FINISHED AT SURFACE LEVEL WITH A CONCRETE SURROUND AND COVER AS PER COLIBAN WATER'S ANNEXURE.
- THE CONTRACTOR MUST ADHERE TO THE CODE OF PRACTICE FOR 'SAFETY PRECAUTIONS IN TRENCHING OPERATIONS' UNDER THE "OCCUPATIONAL HEALTH & SAFETY ACT 2004"
- GATIC STYLE STEEL LIDS ARE TO BE USED ON MANHOLES AS PER THE CLASS SPECIFIED. CAST IRON CONCRETE INFILL STYLE COVERS ARE NOT ACCEPTABLE.
- MANHOLE BENCHING AND CHANNELS TO BE FINISHED WITH A METAL FLOAT. BROOM FINISH IS NOT ACCEPTABLE.
- CONTRACTOR TO DETERMINE WHETHER A SOCKET JOINT OF COUPLING (RRJ) AND A SHORT "ROCKER" PIPE IS REQUIRED TO BE INSTALLED TO PROVIDE FLEXIBILITY NECESSARY TO ACCOMMODATE DIFFERENTIAL SETTLEMENT BETWEEN THE MH BASE AND THE SEWER. SOLVENT CEMENT JOINT SHOULD NOT BE USED IF MH FOUNDATION HAS A BEARING PRESSURE LESS THAN 100KPA.

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
							SIDE	OFFSET	SIDE	OFFSET
KENNEWELL STREET	W	3.4 (EX)	E	4.0 (EX)	W	1.5 (EX)	E	3.0 (EX)	E	4.5
SCOTT STREET	N	5.0 (EX)	N	3.6 (EX)	N	2.6 (EX)	-	-	-	-
ST KILLIAN STREET (CH 7.00 - 28.00)	E	7.75	E	Varies	E	2.7	W	4.0 (EX)	E	2.2
ST KILLIAN STREET (CH 47.00 - 100.00)	E	3.95	E	4.4	E	2.7	W	4.0 (EX)	E	2.2
ST KILLIAN STREET (CH 100.00 - 130.16)	E	Varies	E	Varies	E	Varies	-	-	E	Varies
ST KILLIAN STREET (CH 130.16 - 194.03)	E	2.5	E	2.95	E	1.75 (EX)	-	-	E	1.0



- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB
- (EX) = SERVICE IS EXISTING
- (Var) = SERVICE OFFSET CAN VARY IN SECTIONS



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THE LOCATION OF SERVICES ARE APPROXIMATE ONLY
AND THEIR EXACT POSITION SHOULD BE PROVEN ON
SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING
SERVICES ARE SHOWN. SPECIAL CONSIDERATION
SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES
UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

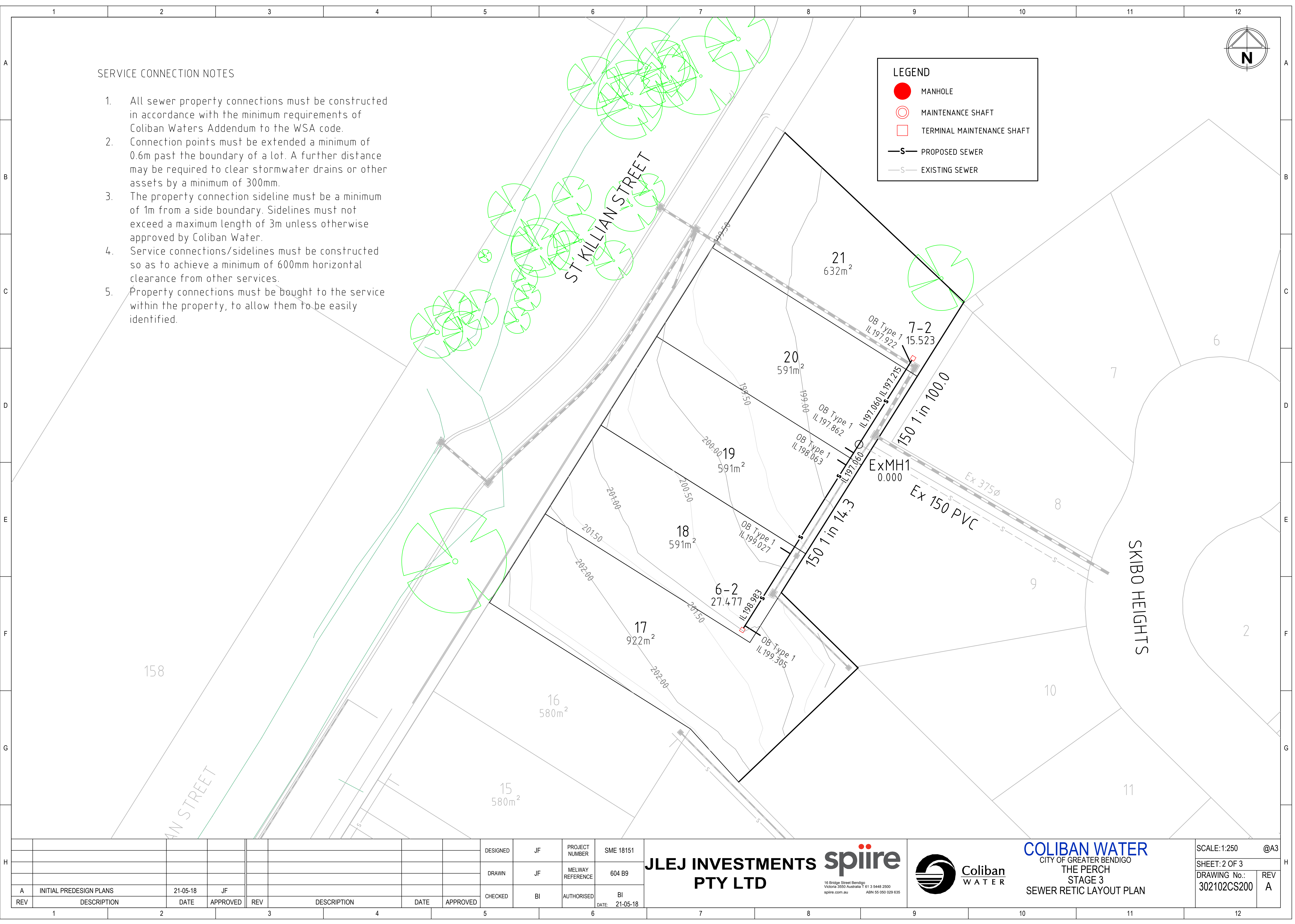
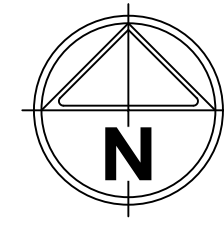
								DESIGNED	JF	PROJECT NUMBER	SME 18151	JLEJ INVESTMENTS PTY LTD	 16 Bridge Street Bendigo Victoria 3550 Australia T 61 3 5448 2500 spiire.com.au ABN 55 050 029 635	 CITY OF GREATER BENDIGO THE PERCH STAGE 3 SEWER RETIC GENERAL NOTES	SCALE: NTS @A3 SHEET: 1 OF 3 DRAWING No.: 302102CS100 REV A
								DRAWN	JF	MELWAY REFERENCE	604 B9				
A	INITIAL PREDESIGN PLANS	21-05-18	JF					CHECKED	BI	AUTHORISED	BI				
REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED				DATE: 21-05-18				

SERVICE CONNECTION NOTES

1. All sewer property connections must be constructed in accordance with the minimum requirements of Coliban Waters Addendum to the WSA code.
2. Connection points must be extended a minimum of 0.6m past the boundary of a lot. A further distance may be required to clear stormwater drains or other assets by a minimum of 300mm.
3. The property connection sideline must be a minimum of 1m from a side boundary. Sidelines must not exceed a maximum length of 3m unless otherwise approved by Coliban Water.
4. Service connections/sidelines must be constructed so as to achieve a minimum of 600mm horizontal clearance from other services.
5. Property connections must be brought to the service within the property, to allow them to be easily identified.

LEGEND

- MANHOLE
- MAINTENANCE SHAFT
- TERMINAL MAINTENANCE SHAFT
- PROPOSED SEWER
- EXISTING SEWER



FINISHED LEVELS OF MAINTENANCE HOLE COVERS	
LOCATION	H
UNDEVELOPED AREAS	100
NEW SUBDIVISIONS	75
ROADS, LANEWAYS, FOOTWAYS & DRIVEWAYS	FLUSH
EXISTING BUILT UP AREAS	25
OTHER AS SPECIFIED (e.g. ABOVE FLOOD LEVEL)	

"H" = HEIGHT OF MH COVER ABOVE FS LEVEL IN mm, AS PER WSA STD
DRG SEW 1308-V

NOTES:

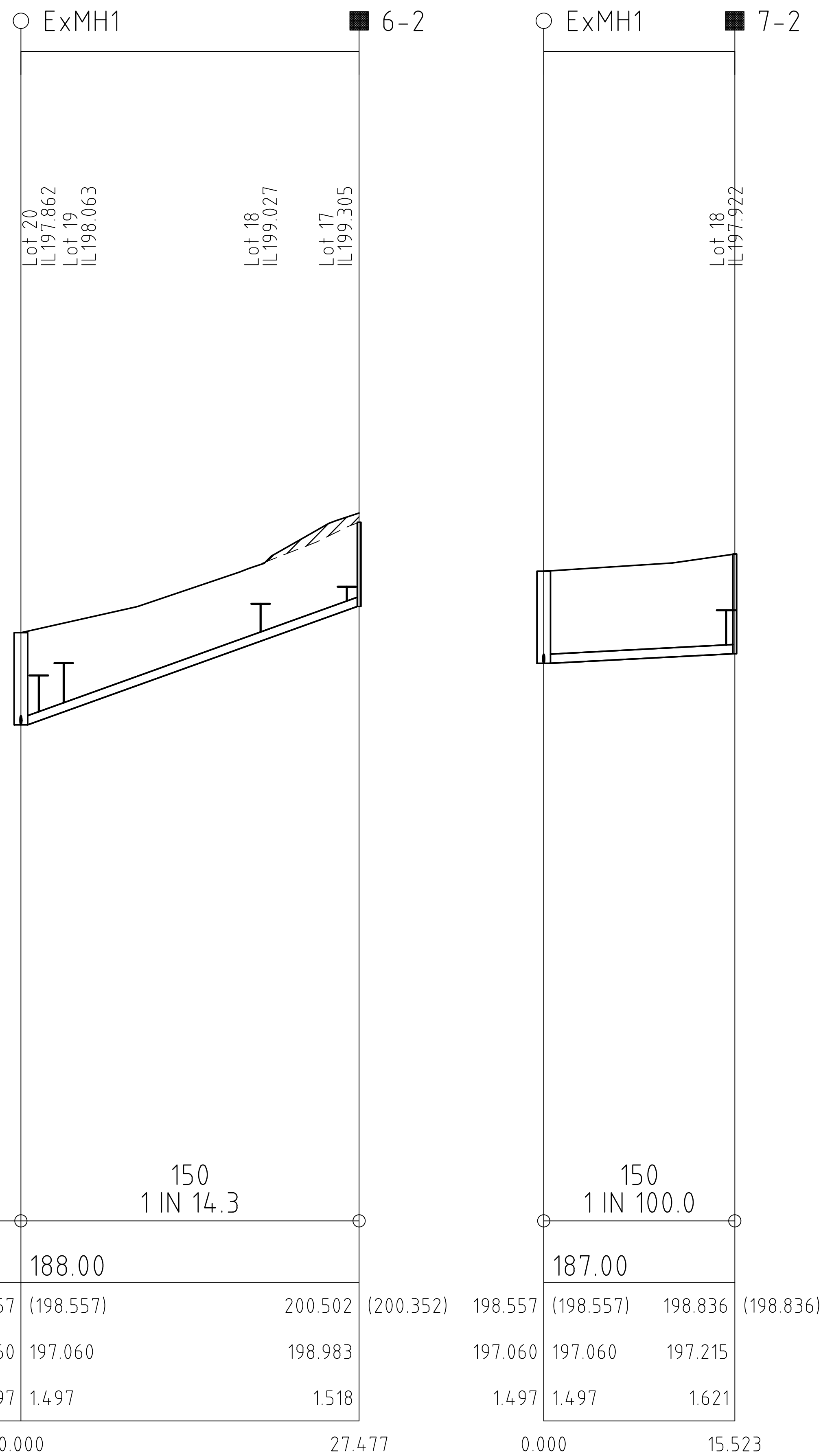
- A. CONTRACTOR TO CONSTRUCT FINISHED SURFACE LEVEL OF MANHOLE COVER LEVELS TO LEVEL AS SHOWN IN WSA A MWRA SEW - 1308 - V. THE SEWER CONTRACTOR IS TO LIAISE WITH THE ROAD CONTRACTOR TO CONFIRM FINISHED SURFACE LEVELS AND CONSTRUCT THE COVER ABOVE IF REQUIRED BY THE STANDARD DRAWING.
- B. MANHOLE COVERS TO BE CONSTRUCTED TO MATCH FINISHED SURFACE LEVEL GRADES. MAXIMUM PERMISSIBLE SLOPE OF COVERS
CLASS "B" 1 in 4
CLASS "D" 1 in 10
- C. DEPTH TO INVERT SHOWN ON LONGITUDINAL SECTIONS IS FROM FINISHED SURFACE LEVEL TO THE INVERT. ADDITIONAL DEPTH MAY BE REQUIRED TO SUIT THE RELEVANT MANHOLE COVER REQUIREMENTS.

LEGEND

PROPOSED CUT

PROPOSED FILL

FCR BACKFILL



DIAMETER & GRADE		1 IN 14.3		1 IN 100.0	
DATUM RL (m)		188.00		187.00	
SURFACE LEVEL	198.557 (198.557)	200.502 (200.352)	198.557 (198.557)	198.836 (198.836)	
INVERT LEVEL	197.060	197.060	198.983	197.060	197.215
DEPTH TO INVERT	1.497	1.497	1.518	1.497	1.621
CHAINAGE	0.000	27.477		0.000	15.523

								DESIGNED	JF	PROJECT NUMBER	SME 18151
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REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED	CHECKED	BI	AUTHORISED	BI DATE: 21-05-18

**JLEJ INVESTMENTS
PTY LTD**

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spiire.com.au ABN 55 050 029 635



COLIBAN WATER
CITY OF GREATER BENDIGO
THE PERCH
STAGE 3
WATER RETIC LONGITUDINAL SECTIONS

SCALE:1:1000	@A3
SHEET: 3 OF 3	
DRAWING No.: 302102CS300	REV A