

RIVER VALLEY - STAGE 7C

RIVER VALLEY BLVD, SUNSHINE NORTH, VIC

CIVIL SITEWORKS

ROADS & DRAINAGE PACKAGE



LOCATION PLAN (N.T.S)



BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

DRAWING SCHEDULE

SHEET NUMBER	SHEET TITLE
15019-CJA-7C-00-DR-C-0000	COVER SHEET & DRAWING SCHEDULE
15019-CJA-7C-00-DR-C-0001	CIVIL NOTES SHEET
15019-CJA-7C-00-DR-C-0100	EXISTING CONDITIONS PLAN
15019-CJA-7C-00-DR-C-1000	OVERALL LAYOUT PLAN
15019-CJA-7C-00-DR-C-1100	DETAILED LAYOUT PLAN (SHEET 1 OF 2)
15019-CJA-7C-00-DR-C-1101	DETAILED LAYOUT PLAN (SHEET 2 OF 2)
15019-CJA-7C-00-DR-C-2001	TYPICAL SECTIONS - ROAD RESERVE (SHEET 1 OF 2)
15019-CJA-7C-00-DR-C-2002	TYPICAL SECTIONS - ROAD RESERVE (SHEET 2 OF 2)
15019-CJA-7C-00-DR-C-2100	TYPICAL SECTIONS - SITE SECTIONS (SHEET 1 OF 2)
15019-CJA-7C-00-DR-C-2101	TYPICAL SECTIONS - SITE SECTIONS (SHEET 2 OF 2)
15019-CJA-7C-00-DR-C-4000	LONG SECTION & SET OUT - ROCK RETAINING WALL
15019-CJA-7C-00-DR-C-4001	LONG SECTION & SET OUT - LANDSCAPE RETAINING WALL
15019-CJA-7C-00-DR-C-4002	LONG SECTION & SET OUT - CONC SLEEPER WALL A&B
15019-CJA-7C-00-DR-C-4003	LONG SECTION & SET OUT - CONC SLEEPER WALL C
15019-CJA-7C-00-DR-C-5000	LONG SECTION - RIVER VALLEY BLVD
15019-CJA-7C-00-DR-C-5001	LONG SECTION - PERENNIAL DRIVE
15019-CJA-7V-00-DR-C-5002	LONG SECTION - SHARED FOOTPATH
15019-CJA-7C-00-DR-C-5100	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 1 OF 9)
15019-CJA-7C-00-DR-C-5101	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 2 OF 9)
15019-CJA-7C-00-DR-C-5102	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 3 OF 9)
15019-CJA-7C-00-DR-C-5103	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 4 OF 9)
15019-CJA-7C-00-DR-C-5104	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 5 OF 9)
15019-CJA-7C-00-DR-C-5105	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 6 OF 9)
15016-CJA-7C-00-DR-C-5106	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 7 OF 9)
15019-CJA-7C-00-DR-C-5107	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 8 OF 9)
15019-CJA-7C-00-DR-C-5108	CROSS SECTIONS - RIVER VALLEY BLVD (SHEET 9 OF 9)
15019-CJA-7C-00-DR-C-5150	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 1 OF 8)
15019-CJA-7C-00-DR-C-5151	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 2 OF 8)
15019-CJA-7C-00-DR-C-5152	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 3 OF 8)
15019-CJA-7C-00-DR-C-5153	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 4 OF 8)
15019-CJA-7C-00-DR-C-5154	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 5 OF 8)
15019-CJA-7C-00-DR-C-5155	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 6 OF 8)
15019-CJA-7C-00-DR-C-5156	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 7 OF 8)
15019-CJA-7C-00-DR-C-5157	CROSS SECTIONS - PERENNIAL DRIVE (SHEET 8 OF 8)
15019-CJA-7C-00-DR-C-5200	DETAILS & SET OUT - TEMP TURNING HEAD 1
15019-CJA-7C-00-DR-C-5201	DETAILS & SET OUT - TEMP TURNING HEAD 2
15019-CJA-7C-00-DR-C-5202	CONSTRUCTION SET OUT - ROUNDABOUT
15019-CJA-7C-00-DR-C-6100	STORMWATER - LONG SECTION (SHEET 1 OF 3)
15019-CJA-7C-00-DR-C-6101	STORMWATER - LONG SECTION (SHEET 2 OF 3)
15019-CJA-7C-00-DR-C-6102	STORMWATER - LONG SECTION (SHEET 3 OF 3)
15019-CJA-7C-00-DR-C-6103	STORMWATER PIPE BEDDING DETAILS
15019-CJA-7C-00-DR-C-6200	STORMWATER - OUTFALL SAG PIT DETAIL
15019-CJA-7C-00-DR-C-6210	STORMWATER - OUTFALL CONNECTION DETAIL (SHEET 1 OF 2)
15019-CJA-7C-00-DR-C-6211	STORMWATER - OUTFALL CONNECTION DETAIL (SHEET 2 OF 2)
15019-CJA-7C-00-DR-C-8000	CONSTRUCTION DETAILS - PAVEMENT & KERBS
15019-CJA-7C-XX-00-DR-8005	CONSTRUCTION DETAILS - FENCING
15019-CJA-7C-00-DR-C-8010	CONSTRUCTION DETAILS - RAINGARDENS - (SHEET 1 OF 2)
15019-CJA-7C-00-DR-C-8011	CONSTRUCTION DETAILS - RAINGARDENS - (SHEET 2 OF 2)
15019-CJA-7C-00-DR-C-8020	CONSTRUCTION DETAILS - RETAINING WALLS - (SHEET 1 OF 3)
15019-CJA-7C-00-DR-C-8021	CONSTRUCTION DETAILS - RETAINING WALLS - (SHEET 2 OF 3)
15019-CJA-7C-00-DR-C-8022	CONSTRUCTION DETAILS - RETAINING WALLS - (SHEET 3 OF 3)
15019-CJA-7C-00-DR-C-8100	CONSTRUCTION SETOUT - HV KIOSK
15019-CJA-7C-00-DR-C-8500	SIGNAGE AND LINEMARKING PLAN
15019-CJA-7C-00-DR-C-9200	SUB-DIVISION PLANS (SHEET 1 OF 4)
15019-CJA-7C-00-DR-C-9201	SUB-DIVISION PLANS (SHEET 2 OF 4)
15019-CJA-7C-00-DR-C-9202	SUB-DIVISION PLANS (SHEET 3 OF 4)
15019-CJA-7C-00-DR-C-9203	SUB-DIVISION PLANS (SHEET 4 OF 4)
15019-CJA-7C-00-DR-C-9900	FILL LAYOUT PLAN
15019-CJA-7C-00-DR-C-9995	SERVICES AND STREETSCAPE CO-ORDINATION
15019-CJA-7C-00-DR-C-9999	INTERIM CONDITIONAL APPROVAL LAYOUT PLAN
15019-CJA-7C-00-DR-EW-3000	BULK EARTHWORKS LAYOUT

0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AM
Revised	Date	Reason	Drawn	Checked

Note for Contractors
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⚠ Dial before you dig, BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

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CIVIL SITEWORKS

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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawn By	Checked By	Drawn Scale	Date of First Issue
AE	AE	N/A @ A1	26.10.20

Project Number	Origin	Zone	Level	File Type	Revs	Number	Revision
15019	CJA	7C	XX	DR	C	0000	0

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GENERAL BRIMBANK CITY COUNCIL NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF BRIMBANK STANDARD SPECIFICATION, ENGINEERING GUIDELINES AND SPECIFICATIONS FOR THE DESIGN & CONSTRUCTION OF ROADS & DRAINAGE WORKS, STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SURVEILLANCE COORDINATOR OR THEIR REPRESENTATIVE.
2. ALL TREES AND SHRUBS TO BE RETAINED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY OR REMOVAL IS DIRECTED BY THE AUTHORISED ENGINEER.
3. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED PRIOR TO THE COMMENCEMENT OF WORKS.
4. ALL VEHICLE CROSSINGS, DRAINAGE PITS, FRAM RAMPS, BOLLARDS etc SHALL BE CONSTRUCTED AS PER COUNCIL'S STANDARD DRAWINGS UNLESS OTHERWISE SPECIFIED.
5. COUNCIL'S SURVEILLANCE COORDINATOR MUST BE NOTIFIED IN WRITING, NO LESS THAN SEVEN (7) DAYS PRIOR TO THE COMMENCEMENTS OF WORKS.
6. SUBMIT APPLICATION FOR TEMPORARY ACCESS TO SITE FOR APPROVAL BY COUNCIL'S SURVEILLANCE COORDINATOR BEFORE ANY COMMENCEMENT OF ANY WORKS COMMENCING.
7. CONTRACTORS ARE RESPONSIBLE WITH RESPECT TO SAFETY OF WORK ON SITE AND APPROPRIATE LEGISLATION.
8. FOOTPATHS ARE TO BE OFFSET 25mm FROM THE PROPERTY LINE AND CONSTRUCTED AS PER BRIMBANK STANDARD DRAWING S350.
9. VICROAD'S 'ROADWORK SIGNAGE CODE OF PRACTICE' WHICH COMPLIES WITH AUSTRALIAN STANDARDS 1742.3-1996 IS TO BE ADHERED TO DURING CONSTRUCTION WORKS (OR ANY SUBSEQUENT LATER REVISION)
10. WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED 20MM CLASS 3 CRUSHED ROCK UP TO A LEVEL WHERE THE 45DEG. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE.
11. ALL CONCRETE DRAIN PIPES TO BE CLASS 4 SPIGOT & SOCKET WITH RUBBER RING UNLESS OTHERWISE SPECIFIED.
12. CCTV AND LASER PROFILING OF COMPLETED DRAINS SHALL BE UNDERTAKEN BY THE CONTRACTOR AS PER WSA 05-2008 VER2.2 AND SUBMIT TO COUNCIL PRIOR TO PRACTICAL COMPLETION OR STATEMENT OF COMPLIANCE WHICHEVER IS EARLIER
13. SERVICE CONDUITS ARE TO BE PROVIDED UNDER FOOTPATHS EXTENDING INTO ALLOTMENTS - LOCATION TO BE MARKED ON THE FOOTPATH AND KERB.
14. AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AT INTERFACE OF EXISTING AND NEW PAVEMENT AND SHOULD HAVE SUITABLE OUTLET. REFER TO COUNCIL'S STANDARD DRAWING S110 FOR BACKFILL MATERIAL ETC. SOME WORKS MAY REQUIRE SPECIAL CONSIDERATION EG. VICROADS STANDARDS.
15. CONDUITS ARE TO BE CLEARLY MARKED ON THE KERB AND FOOTPATH FOR EASY IDENTIFICATION
16. ALL SERVICING TRENCHES UNDER ROAD CARRIAGEWAYS, FOOTPATHS, VEHICLE CROSSINGS AND OTHER STRUCTURES ARE TO BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK IN ACCORDANCE WITH SECTION 706 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENT.
17. ALL SERVICES MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF THE KERB AND CHANNEL
18. TMP TO BE SUBMITTED TO COUNCIL'S SURVEILLANCE AND/OR TRAFFIC & TRANSPORT SECTION 7 DAYS PRIOR TO COMMENCEMENT OF WORKS FOR ACCEPTANCE.
19. STREET LIGHTING SHALL BE LED 18W FOR STANDARD FITTING AND LED 16W TOORAK/TOORAK ALPHA FOR DECORATIVE NON-STANDARD FITTING.
20. THE DRAWINGS, "MUST NOT BE SCALED/MEASURED" FROM HARD OR DIGITAL COPIES.
21. MINIMUM EARTHWORKS FILLING REQUIREMENTS FOR ALL ROAD WORKS:
 - a. ROAD FILLING WORKS SHALL BE IN ACCORDANCE WITH SECTION 204 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENT.
 - b. TYPE A FILL IS REQUIRED FOR THE LAST 200mm LAYER UNDER ROAD PAVEMENTS, FOOTPATHS, VEHICLE CROSSINGS, NATURE STRIPS AND OTHER ROAD STRUCTURES.
 - c. TYPE A MATERIAL IS SPECIFIED IN SECTION 204 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENTS TO BE 3% CBR, MAXIMUM SWELL OF 2.5%, MAXIMUM PERMEABILITY OF 5 X 10-7 CM/SEC AND MAXIMUM BOULDER SIZE IS 75mm ROCK WITH NO OTHER GRADING REQUIREMENTS.
 - d. NATURE STRIP WIDTHS SHALL BE FINISHED OFF WITH 200mm THICK TOP SOIL MATERIAL RECOVERED FROM STRIPPING PRIOR TO THE CONSTRUCTION OF EARTHWORKS OR OTHER IMPORTED TOPSOIL TO COMPLY WITH COUNCIL'S LANDSCAPE REQUIREMENTS - TO BE COMPLETED BY THE LANDSCAPING CONTRACTOR.
22. FILL MATERIAL TO BE IMPORTED TO SITE WILL BE SUBJECT TO THE FOLLOWING CONTROLS:
 - a. BORROW MATERIAL FOR FILLING WORKS IS TO BE SIGNED OFF BY A SUITABLY QUALIFIED INDEPENDENT ENVIRONMENTAL SCIENTIST TO BE CLEAN FILL TO MEET EPA DEFINITION. THE SCIENTIST MUST BE RECOGNISED BY THE EPA TO UNDERTAKE SUCH A JOB.
 - THE INDEPENDENT ENVIRONMENTAL SCIENTIST IS TO CERTIFY THAT THE SOURCE OF SOURCES TO BORROW MATERIAL TO MEET THE EPA DEFINITION OF CLEAN FILL SUITABLE FOR ROAD CONSTRUCTION. THE SCIENTIST IS TO OVERSEE ALL TESTINGS, FREQUENCY OF TESTINGS ETC. TO MEET EPA REQUIREMENTS FOR CLEAN FILL.
 - THE SCIENTIST IS TO ENSURE THAT ONLY THE CERTIFIED CLEAN FILL MATERIAL IS USED. TRANSPORTATION DOCKETS ARE TO BE ISSUED FOR EACH TRUCK LOAD. DATE AND TIME OF LOADING AND ARRIVAL ON SITE ARE TO BE RECORDED.
 - AT THE END OF BORROW FILLING, A REPORT IS TO BE SUBMITTED TO COUNCIL BY THE INDEPENDENT SCIENTIST DETAILING THE TESTINGS CARRIED OUT LEADING TO THE APPROVAL OF THE SOURCE OR SOURCES.
 - THE REPORT IS ALSO TO INCLUDE COPIES OF ALL THE TRANSPORTATION DOCKETS AND SUMMARY OF THE REQUIRED BORROW VOLUME.
 - IN THE REPORT, THE SCIENTIST IS TO SIGN OFF THE COMPLETED BORROW FILL WORKS FOR EPA REQUIREMENTS FOR CLEAN FILL WORKS.
 - b. BORROW MATERIAL FILLING WORKS IS TO BE SIGNED OFF BY A SUITABLY QUALIFIED INDEPENDENT (NATA REGISTERED COMPANY) GEOTECHNICAL ENGINEER TO BE TYPE B FILL TO MEET BCC SPECIFICATIONS FOR TYPE B FILL MATERIAL.
 - THE GEOTECHNICAL ENGINEER IS TO APPROVE THE SOURCE OR SOURCES OF THE BORROW MATERIAL THAT MEETS TYPE B FILL (INCLUDING MINIMUM 2% CBR)
 - THE GEOTECHNICAL ENGINEER IS TO CARRY OUT ALL THE TESTING AT THE SITE OR SOURCE(S) AS REQUIRED IN SECTION 204.
 - THE ENGINEER IS TO ENSURE THAT ONLY THE CERTIFIED TYPE B FILL MATERIAL IS USED. TRANSPORTATION DOCKETS ARE TO BE ISSUED FOR EACH TRUCK LOAD. DATE AND TIME OF LOADING AND ARRIVAL ON SITE ARE TO BE RECORDED.
 - AT THE COMPLETION OF THE FILLING WORKS, THE ENGINEER IS TO SUBMIT A SEPARATE REPORT TO COUNCIL TO VERIFY ALL BORROW MATERIAL FILLING WORKS MEET THE TYPE B SPECIFICATION.
 - IN THE REPORT, THE GEOTECHNICAL ENGINEER IS TO SIGN OFF THE COMPLETED BORROW FILL WORKS THAT MEET TYPE B SPECIFICATIONS.
 - c. PRIOR TO THE COMMENCEMENT OF THE BORROW MATERIAL FILLING, BOTH THE SCIENTIST AND THE GEOTECHNICAL ENGINEER ARE TO INFORM COUNCIL SURVEILLANCE OF THE APPROVED SOURCE OR SOURCES OF BORROW MATERIAL AND SUBMIT TESTING RESULTS VERIFYING THE ACCEPTANCE OF THE MATERIAL.

ADDITIONAL GENERAL NOTES

23. EARTHWORKS & SEDIMENTATION CONTROL
 - a. ALL CONTROLS FOR EATHWORKS TO BE PROVIDED IN ACCORDANCE WITH THE ENDORSED SOIL AND FILL PLAN AND ENDORSED ECEPM.
 - b. NO POLLUTED OR SEDIMENT LADEN RUNOFF IS TO BE DISCHARGED DIRECTLY OR INDIRECTLY INTO EXISTING DRAINAGE SYSTEM DURING OR AFTER THE WORKS.
 - c. STOCKPILING OF MATERIAL IS TO BE PLACED AS DIRECTED BY THE SUPERINTENDENT.
 - d. DISTURBED AREAS WITHIN DESIGNATED GRASSED FLOODWAY ZONES MUST BE TOPSOILED AND STABILISED IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS - SCOPE TO BE COMPLETED BY LANDSCAPING CONTRACTOR.
24. ALL LEVELS & SETOUT TO MGASS AND AHD.
25. REQUIREMENTS PRIOR TO COMMENCEMENT OF CIVIL WORKS:
 - a. A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN MUST BE SUBMITTED AND APPROVED BY BCC ENVIRONMENTAL PLAN AS PER PLANNING PERMIT CONDITION (PPC) No. 50.
 - b. PRIOR TO THE REMOVAL OF ANY NATIVE VEGETATION ASSOCIATED WITH THE OUTFALL DRAINAGE CONNECTION, CLEARANCE MUST BE OBTAINED FROM THE BCC ENVIRONMENTAL TEAM
 - c. ASSET PROTECTION PERMIT MUST BE OBTAINED FROM BCC ENGINEERING DEPARTMENT
26. REQUIREMENTS DURING AND/OR AFTER CONSTRUCTION STAGES OF WORKS:
 - a. CULTURAL HERITAGE INDUCTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE CHMP.
 - b. PROVIDE ROAD SAFETY AUDIT (RSA) POST CONSTRUCTION.
27. AS PART OF THESE WORKS TONKIN AND TAYLORS EARTHWORKS SPECIFICATION WILL TAKE PRECEDENCE OVER BCC EARTHWORKS REQUIREMENTS.
28. PIPE BEDDING AND BACKFILL TO BE IN ACCORDANCE WITH BCC SPECIFICATION 701A.

ADDITIONAL PLANNING PERMIT NOTES:

1. ABORIGINAL PROTECTION REQUIREMENTS MUST BE ADHERED TO AS PER PLANNING PERMIT CONDITIONS 12 AND 13.
2. ENVIRONMENTAL MANAGEMENT PLAN MUST BE SUBMITTED AND APPROVED AS PER CONDITION 5 AND 50.
3. PRIOR TO REMOVAL OF ANY VEGETATION, THE OFFSET OF NATIVE VEGETATION MUST BE SECURED FROM THE ENVIRONMENT TEAMS PER PLANNING PERMIT CONDITION 29 AND 30.

BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

0	30.09.21	ISSUED FOR CONSTRUCTION	AK	AK
Revised/	Date	Reason	Drawn	Checked

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2. Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
3. All contractors must still take and be responsible for taking and checking all dimensions related to the work shown on the drawing prior to fabrication or setting out.

Note for Contractors
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Do not rely on this drawing for UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

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CIVIL SITWORKS

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Project RIVER VALLEY - STAGE 7C		Drawing Title CIVIL NOTES SHEET			
Client YOURLAND		Drawn By AK	Checked By AK	Drawn Scale N/A B/A1	Date of first issue 26.10.20
Reason of Issue ISSUED FOR CONSTRUCTION					

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	0001	0

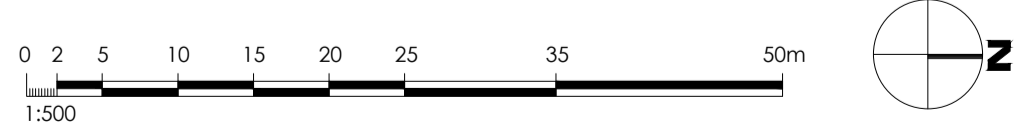
DRAWING LEGEND

- EXISTING CARRIAGEWAY
- SITE EXTENTS
- TITLE BOUNDARY
- EXISTING STORM WATER
- EXISTING SEWER
- EXISTING TELECOMMUNICATIONS
- EXISTING GAS
- EXISTING ELECTRICITY (GENERAL)
- EXISTING POTABLE WATER
- EXISTING LIGHTPOLE
- EXISTING MAJOR CONTOUR (1.0m)
- PROPOSED EXCLUSION FENCE
- TREE PROTECTION ZONE
- CATCH DRAIN (EARLY WORKS)

TOP OF BATTER
BOTTOM OF BATTER



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Engineering Services
APPROVED PLANS AND SPECIFICATIONS
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Revised	Date	By	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION		JSS	AV

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EARLY WORKS CONTRACTOR TO PROVIDE AS-BUILT RECORD OF COMPLETED EARTHWORKS PRIOR TO COMMENCEMENT.

REFER TO DRAWING C-9999 FOR AREA OF NATIVE VEGETATION IN WHICH WORKS CANNOT OCCUR PRIOR TO COUNCIL APPROVAL.

ISSUED FOR CONSTRUCTION



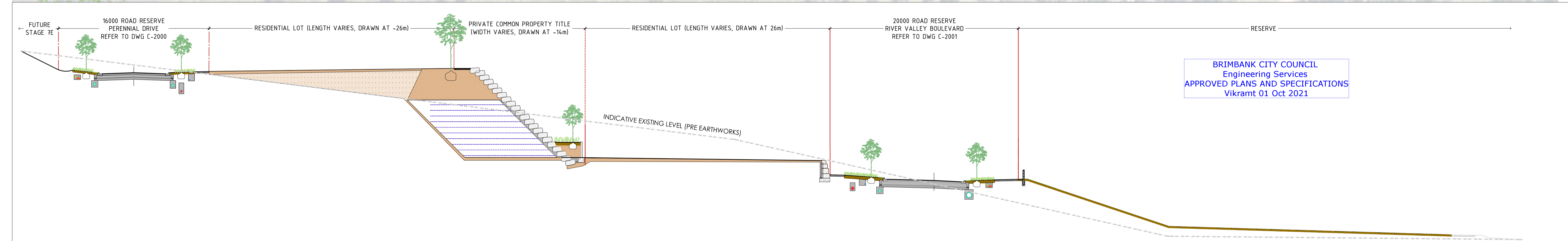
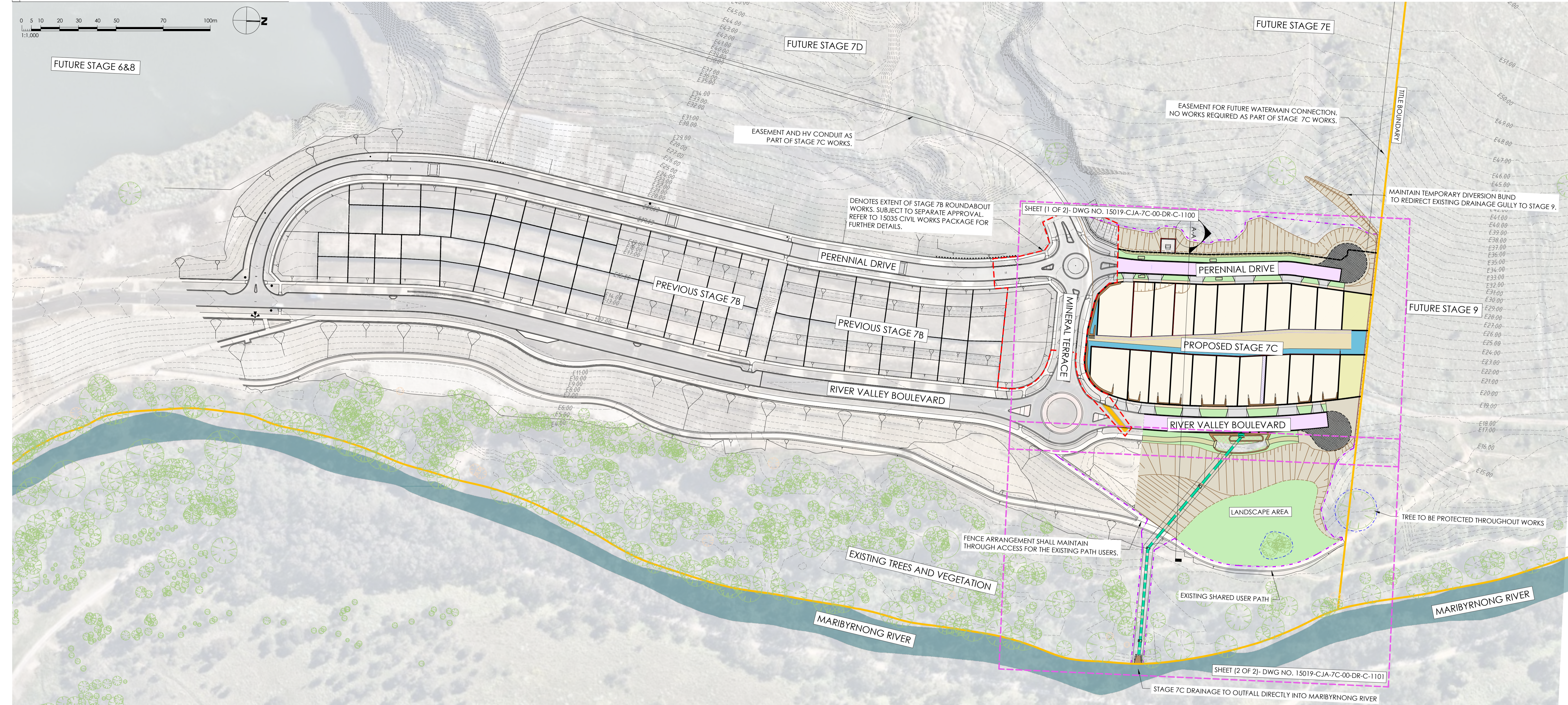
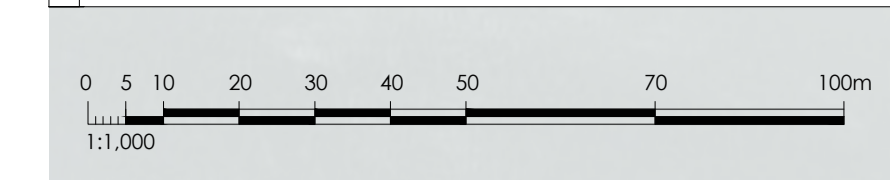
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CIVIL SITWORKS
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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	0100	0

Drawn By: AE
Checked By: BW
Drawn Scale: 1:500 @ A1
Date of First Issue: 26.10.20



A-A WEST TO EAST - WHOLE SITE - SCHEMATIC SECTION
SCALE 1:200

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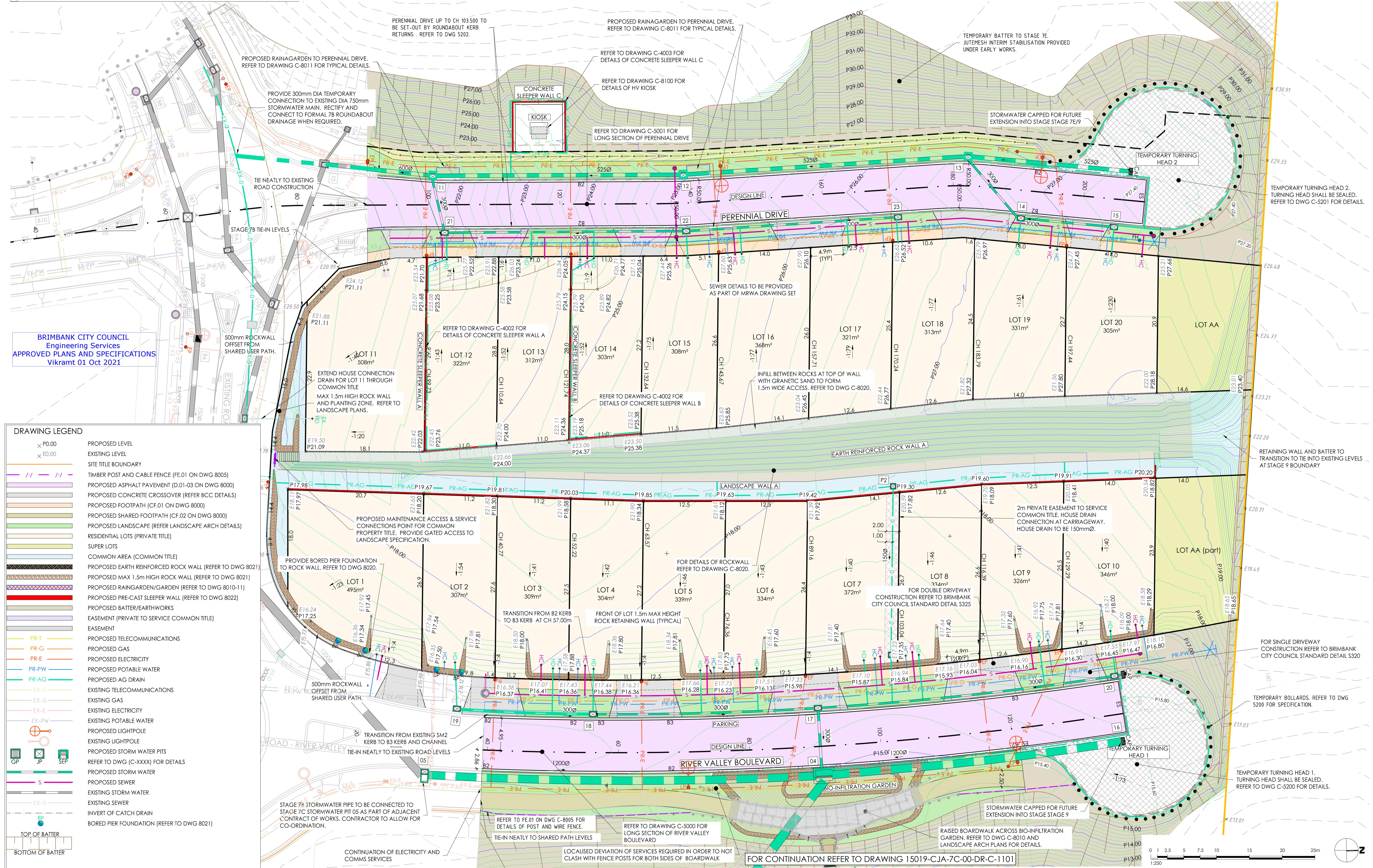
REFER TO DRAWING C-9999 FOR AREA OF NATIVE VEGETATION IN WHICH WORKS CANNOT OCCUR PRIOR TO COUNCIL APPROVAL.

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Project: RIVER VALLEY - STAGE 7C		Drawing Title: OVERALL LAYOUT PLAN	
Client: YOURLAND		Drawn By: JSS	
Issued for Construction		Checked By: AX	
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
File Type: DR	Base: C	Number: 1000	Revision: 0
Date of First Issue: 26.10.20	Date of Issue: 26.10.20		



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 Engineering Services
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NOTE: HOUSE DRAIN CONNECTIONS SHALL BE DIA. 100mm PVC AND INSTALLED WITH 450mm COVER TO BRIMBANK COUNCIL REQUIREMENTS, EXCEPT FOR:
 - HOUSE DRAIN CONNECTIONS FOR THE COMMON PROPERTY AND LOTS 1 TO 10 TO BE INSTALLED WITH 900mm COVER TO AVOID RETAINING WALL FOOTINGS
 - HOUSE DRAIN CONNECTIONS FOR LOTS 12 AND 14 TO BE INSTALLED WITH 900mm COVER TO PROVIDE CONTROL TO RETAINING WALL SUBSOIL DRAINAGE.

NOTE: ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH TONKIN + TAYLORS SLOPE STABILITY ANALYSES (TYPICAL)

PROVIDE JUTEMAT STABILISATION OF ALL TEMPORARY & PERMANENT BATTERS STEEPER THAN 1V:4H (TYPICAL)

YourLand Developments

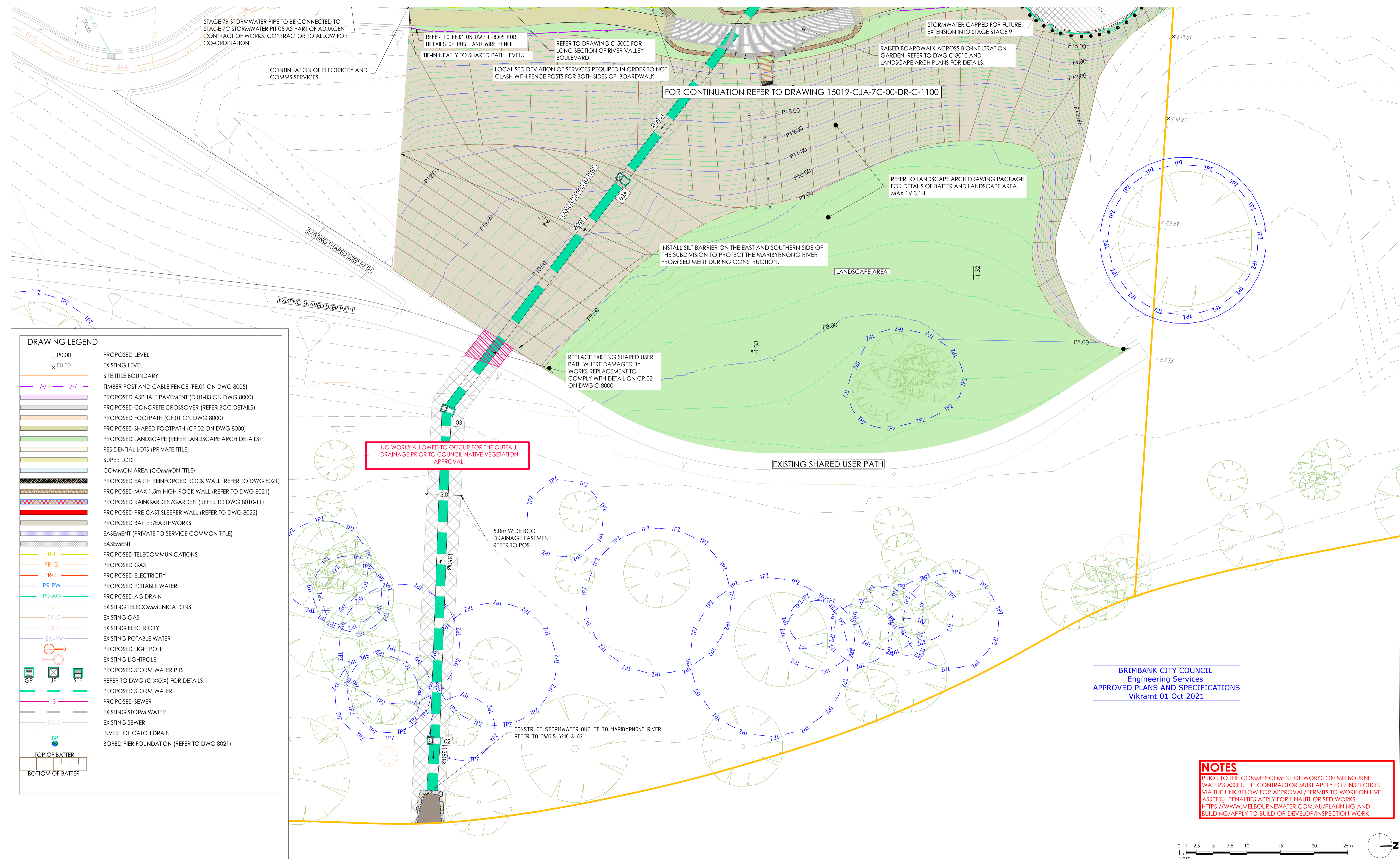
CJ ARMS CIVIL SITESWORKS

Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Drawn By: JSS
 Checked By: AX
 Drawn Scale: 1:250 @ A1
 Date of First Issue: 17.04.20

Project Number: 15019
 Origin: CJA
 Zone: 7C
 Level: XX
 File Type: DR
 Revision: C
 Number: 1100
 Revision: 0

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DRAWING LEGEND

× P0.00	PROPOSED LEVEL
× E0.00	EXISTING LEVEL
---	SITE TITLE BOUNDARY
— H — H —	TIMBER POST AND CABLE FENCE (FE.01 ON DWG 8005)
---	PROPOSED ASPHALT PAVEMENT (D.01-03 ON DWG 8000)
---	PROPOSED CONCRETE CROSSOVER (REFER BCC DETAILS)
---	PROPOSED FOOTPATH (CF.01 ON DWG 8000)
---	PROPOSED SHARED FOOTPATH (CF.02 ON DWG 8000)
---	PROPOSED LANDSCAPE (REFER LANDSCAPE ARCH DETAILS)
---	RESIDENTIAL LOTS (PRIVATE TITLE)
---	SUPER LOTS
---	COMMON AREA (COMMON TITLE)
---	PROPOSED EARTH REINFORCED ROCK WALL (REFER TO DWG 8021)
---	PROPOSED MAX 1.5m HIGH ROCK WALL (REFER TO DWG 8021)
---	PROPOSED RAINGARDEN/GARDEN (REFER TO DWG 8010-11)
---	PROPOSED PRE-CAST SLEEPER WALL (REFER TO DWG 8022)
---	PROPOSED BATTER/EARTHWORKS
---	EASEMENT (PRIVATE TO SERVICE COMMON TITLE)
---	EASEMENT
PR-T	PROPOSED TELECOMMUNICATIONS
PR-G	PROPOSED GAS
PR-E	PROPOSED ELECTRICITY
PR-PW	PROPOSED POTABLE WATER
PR-AG	PROPOSED AG DRAIN
EX-T	EXISTING TELECOMMUNICATIONS
EX-G	EXISTING GAS
EX-E	EXISTING ELECTRICITY
EX-PW	EXISTING POTABLE WATER
⊕	PROPOSED LIGHTPOLE
⊕	EXISTING LIGHTPOLE
GP	PROPOSED STORM WATER PITS
JP	REFER TO DWG (C-XXXX) FOR DETAILS
SEP	PROPOSED STORM WATER
S	PROPOSED SEWER
S	EXISTING STORM WATER
EX-S	EXISTING SEWER
⊖	INVERT OF CATCH DRAIN
BP	BORED PIER FOUNDATION (REFER TO DWG 8021)
TOP OF BATTER	
BOTTOM OF BATTER	

NO WORKS ALLOWED TO OCCUR FOR THE OUTFALL DRAINAGE PRIOR TO COUNCIL NATIVE VEGETATION APPROVAL.

5.0m WIDE BCC DRAINAGE EASEMENT. REFER TO POS

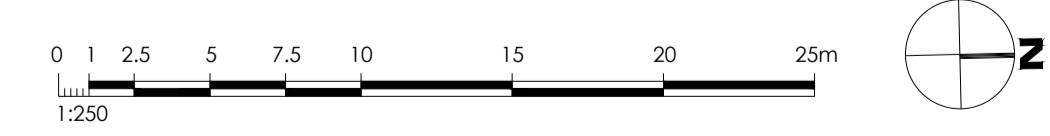
CONSTRUCT STORMWATER OUTLET TO MARIBYRNONG RIVER. REFER TO DWG'S 6210 & 6211.

REFER TO DRAWING C-9999 FOR AREA OF NATIVE VEGETATION IN WHICH WORKS CANNOT OCCUR PRIOR TO COUNCIL APPROVAL.

ISSUED FOR CONSTRUCTION

BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

NOTES
PRIOR TO THE COMMENCEMENT OF WORKS ON MELBOURNE WATER'S ASSET, THE CONTRACTOR MUST APPLY FOR INSPECTION VIA THE LINK BELOW FOR APPROVAL/PERMITS TO WORK ON LIVE ASSET(S). PENALTIES APPLY FOR UNAUTHORISED WORKS.
[HTTPS://WWW.MELBOURNWATER.COM.AU/PLANNING-AND-BUILDING/APPLY-TO-BUILD-OR-DEVELOP/INSPECTION-WORK](https://www.melbournwater.com.au/planning-and-building/apply-to-build-or-develop/inspection-work)



Note for Contractors
The works described on this drawing must be undertaken by competent Contractors with an appropriate level of experience who have prepared appropriate Safe Work Method Statements (SWMS) relating to these works. The contractor is responsible for the management of all risks associated with the construction activities stated on this drawing.

This drawing should not be issued in part and must be read in conjunction with all appropriate specifications, notes pages, details and authority drawings as appropriate.

Be aware of UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

YourLand
Developments



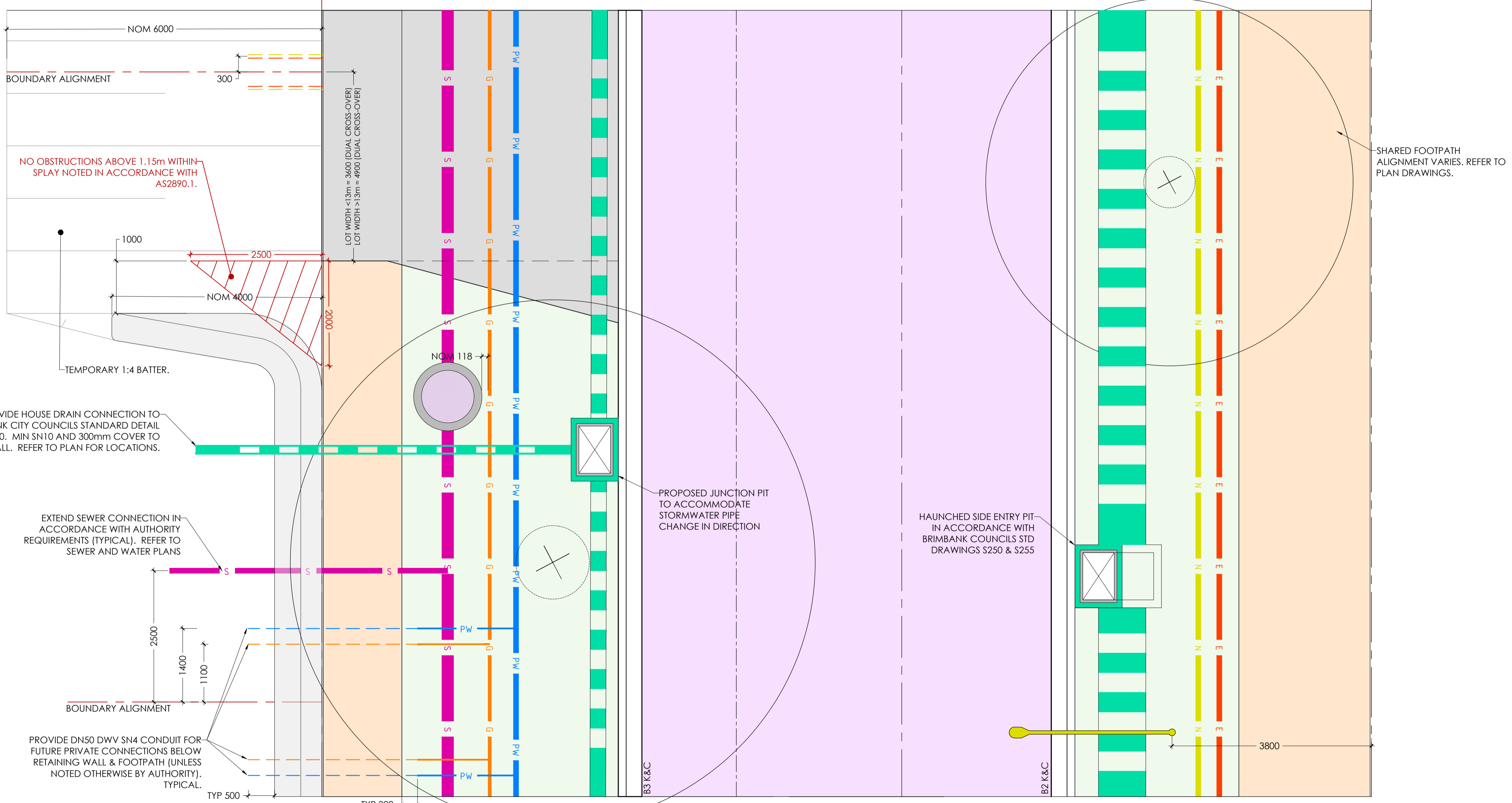
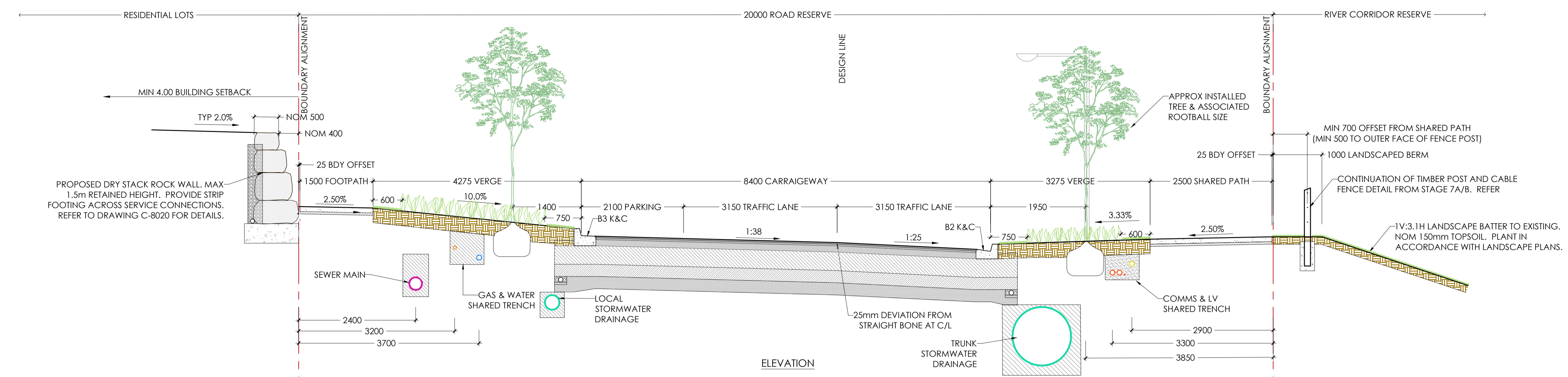
CJ ARMS

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CIVIL SITWORKS
MELBOURNE
T: 03 9385 2800 | E: info@cjarms.com | W: www.cjarms.com

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawn By: JSS	Checked By: AX	Drawn Scale: 1:250 @ A1	Date of first issue: 17.04.20
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
File Type: DR	Revs: C	Number: 1101	Revisions: 0



BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

LEGEND

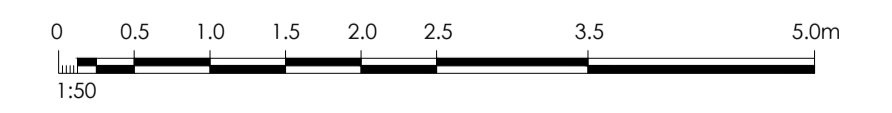
E	ELECTRICITY
G	GAS
S	SEWER
PW	WATER
N	TELECOMMUNICATIONS
(Green/White Stripes)	STORMWATER

- NOTES:**
- MINIMUM DEPTH OF COVER TO ALL UTILITY SERVICES WITH THE EXCEPTION OF TELECOMMUNICATIONS SERVICES TO BE 600mm. TELECOMMUNICATIONS SERVICES ARE TO HAVE A MINIMUM DEPTH OF COVER OF 450mm.
 - REFER TO BELOW TABLE FOR SERVICES OFFSETS.
 - LOCATIONS OF STREET TREES, STREET LIGHTS, DRIVEWAYS AND PROPERTY BOUNDARIES ARE SHOWN INDICATIVELY ONLY. REFER TO DETAILED LAYOUT PLANS.
 - REFER TO LANDSCAPE PLANS FOR FURTHER DETAILS ON PLANTING AND TREE TREATMENTS.

TABLE OF SERVICE OFFSETS

Street	Gas	Water	Sewer	Elec	Comms	Light Poles	BOK
River Valley Boulevard	3.20 W	3.70 W	2.40 W	3.30 E	2.90 E	3.80 E	5.65
Perennial Drive	1.65 E	2.10 E	2.95 E	1.80 W	2.20 W	3.00 W	4.20

(ALL CROSS ROAD UTILITY INFRASTRUCTURE OMITTED FOR CLARITY)
TYPICAL ROAD CROSS SECTIONS - RIVER VALLEY BOULEVARD



Note for Contractors
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This drawing should not be issued in part and must be read in conjunction with all appropriate specifications, notes pages, details and authority drawings as appropriate.

Diagrams before you dig. BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

ISSUED FOR CONSTRUCTION



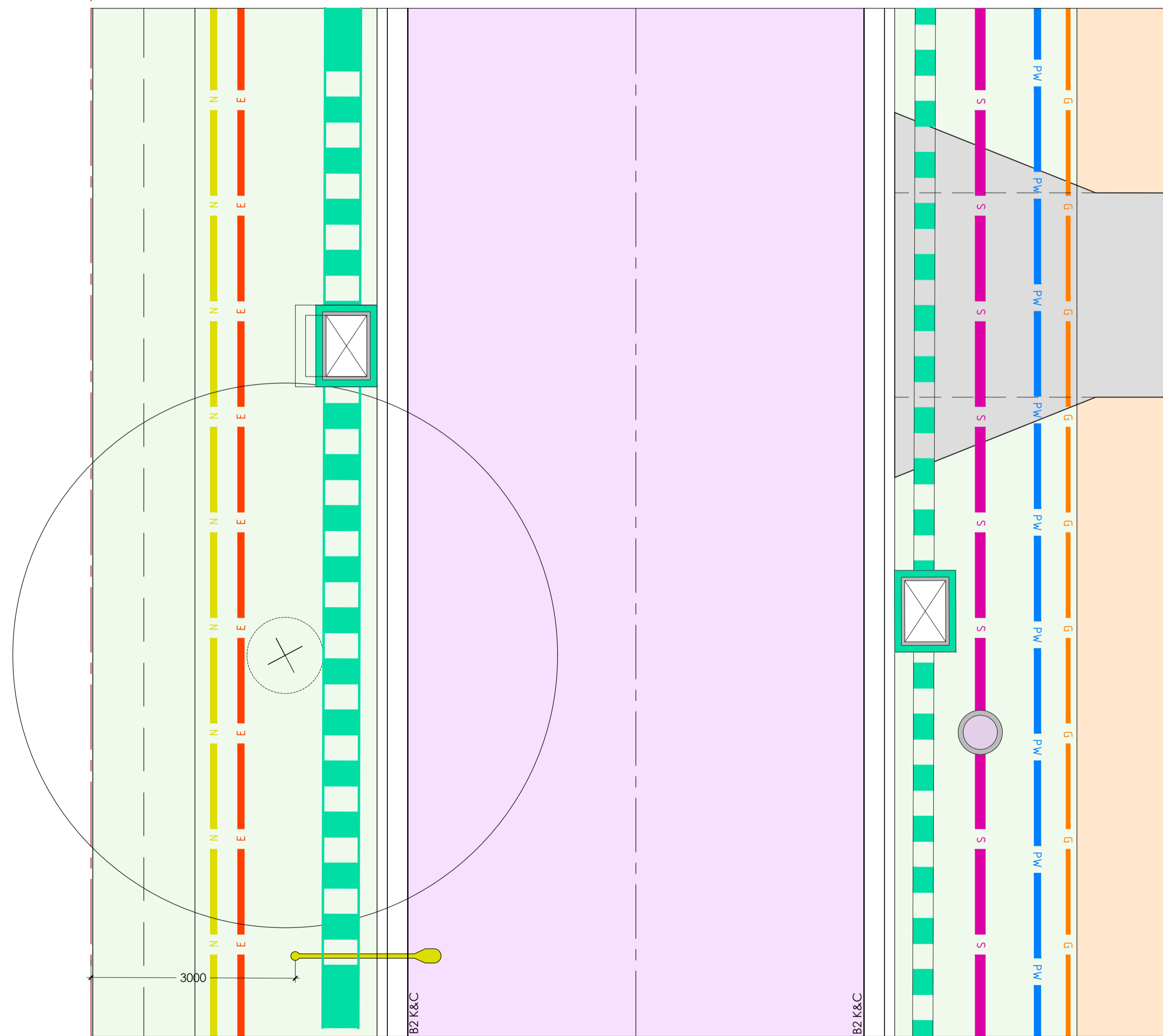
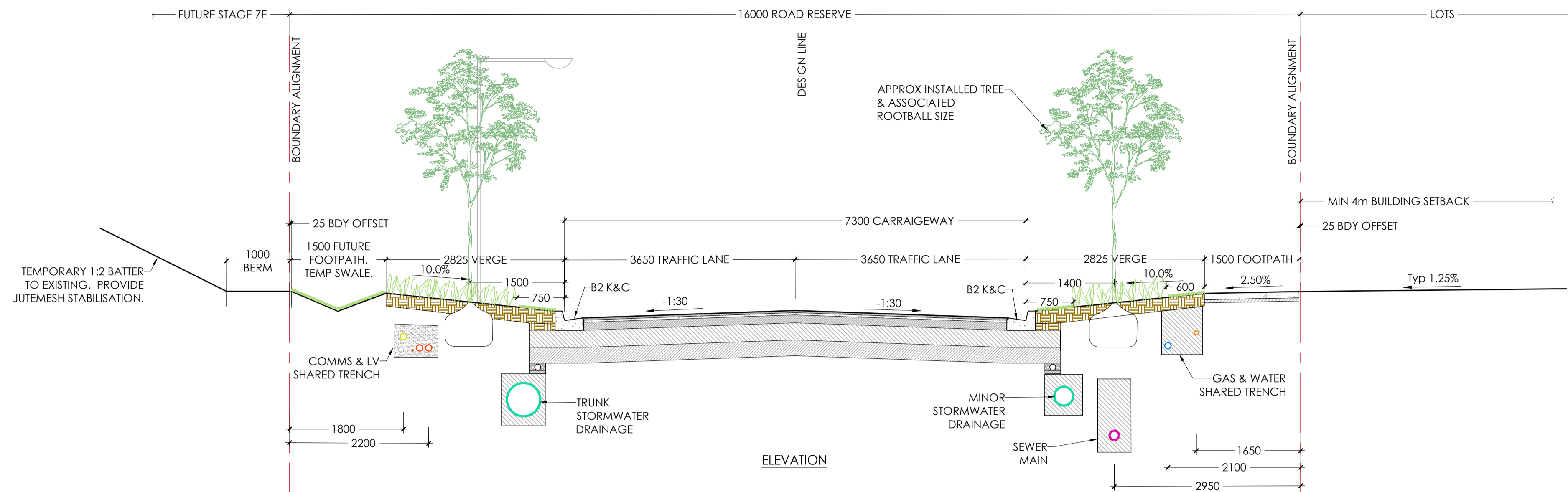
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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawn By: AK
Checked By: AK
Drawn Scale: 1:50 @ A1
Date of first issue: 17.04.20

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	2001	0

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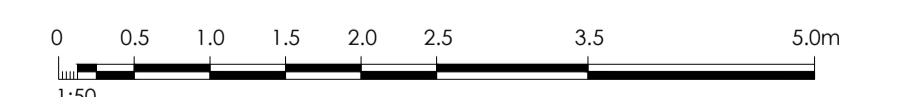
BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

LEGEND

— E	ELECTRICITY
— G	GAS
— S	SEWER
— PW	WATER
— N	TELECOMMUNICATIONS
—	STORMWATER

- NOTES:
- MINIMUM DEPTH OF COVER TO ALL UTILITY SERVICES WITH THE VERGE EXCEPT OF TELECOMMUNICATIONS SERVICES TO BE 600mm. TELECOMMUNICATIONS SERVICES ARE TO HAVE A MINIMUM DEPTH OF COVER OF 450mm.
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Street	Gas	Water	Sewer	Elec	Comms	Light Poles	BOK
River Valley Boulevard	3.20 W	3.70 W	2.40 W	3.30 E	2.90 E	3.80 E	5.65
Perennial Drive	1.65 E	2.10 E	2.95 E	1.80 W	2.20 W	3.00 W	4.20



Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	AK	AK

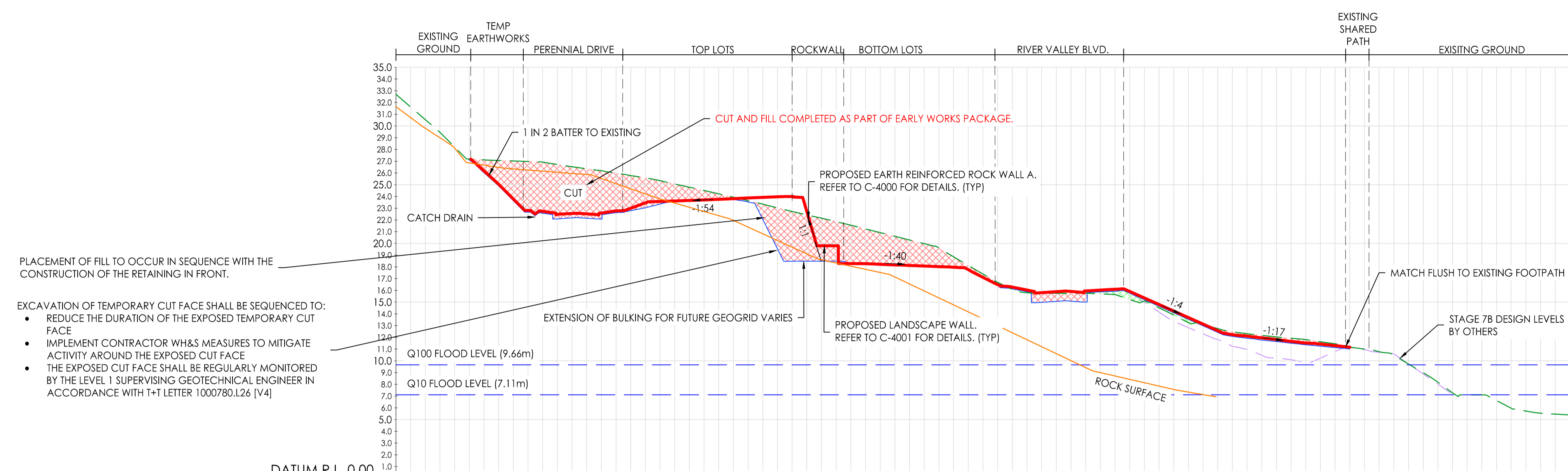
ISSUED FOR CONSTRUCTION



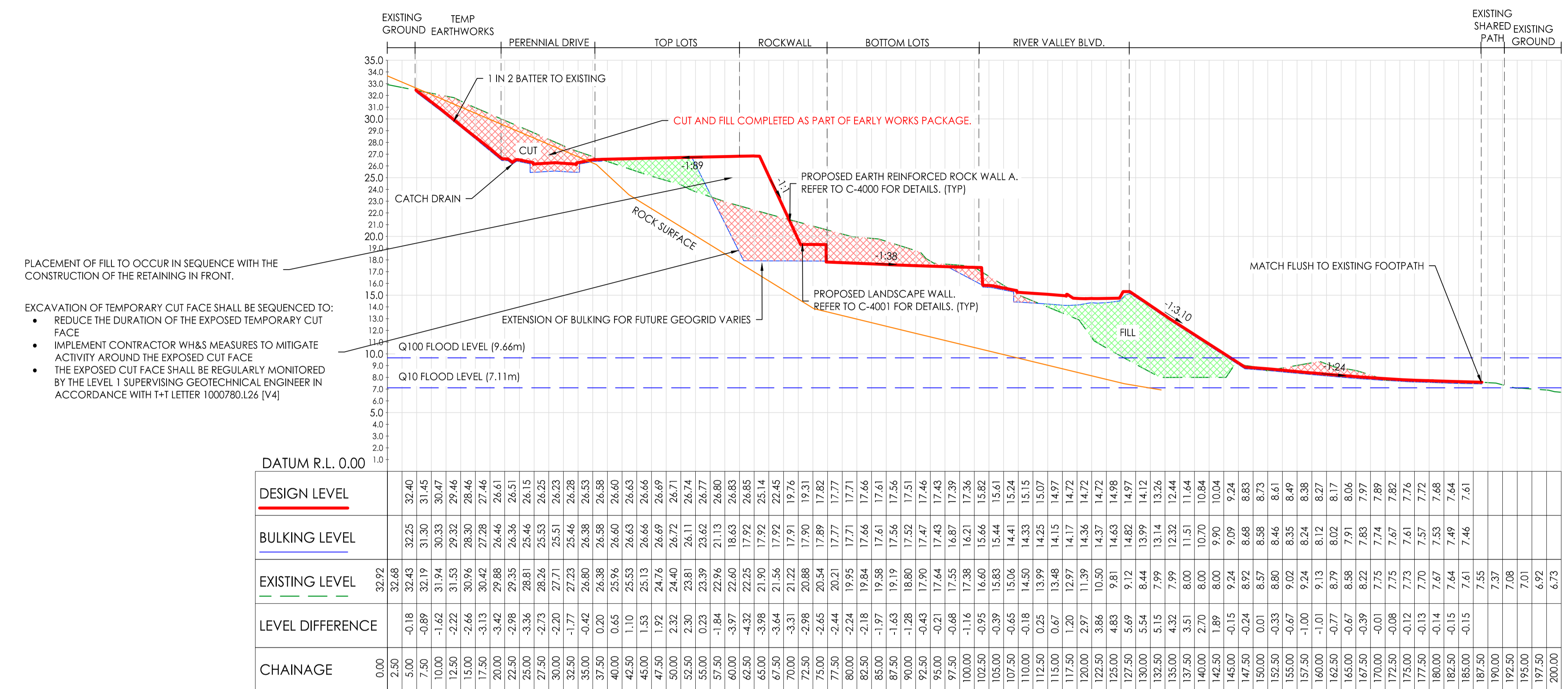
Project: RIVER VALLEY - STAGE 7C		Drawing Title: TYPICAL SECTIONS - ROADS SHEET (2 OF 2)	
Client: YOURLAND		Revision: 0	
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
Issue Type: DR	Rev: C	Number: 2002	Revision: 0
Date of Issue: 17.04.20	Drawn By: AK	Checked By: AK	Drawn Scale: 1:50 @ A1

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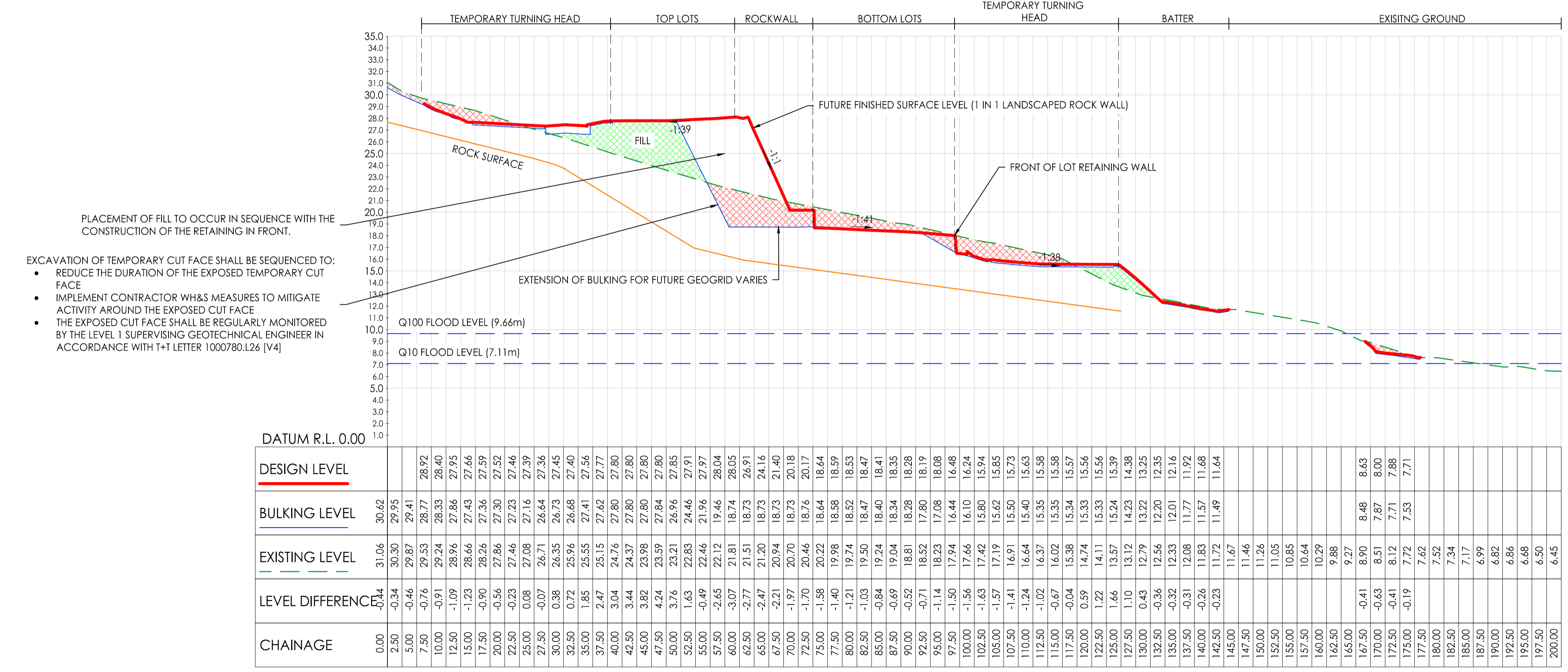
Disclaimer:
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2. Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
3. All contractors must visit site and be responsible for taking and checking all dimensions related to the works shown on the drawing prior to fabrication or setting out.



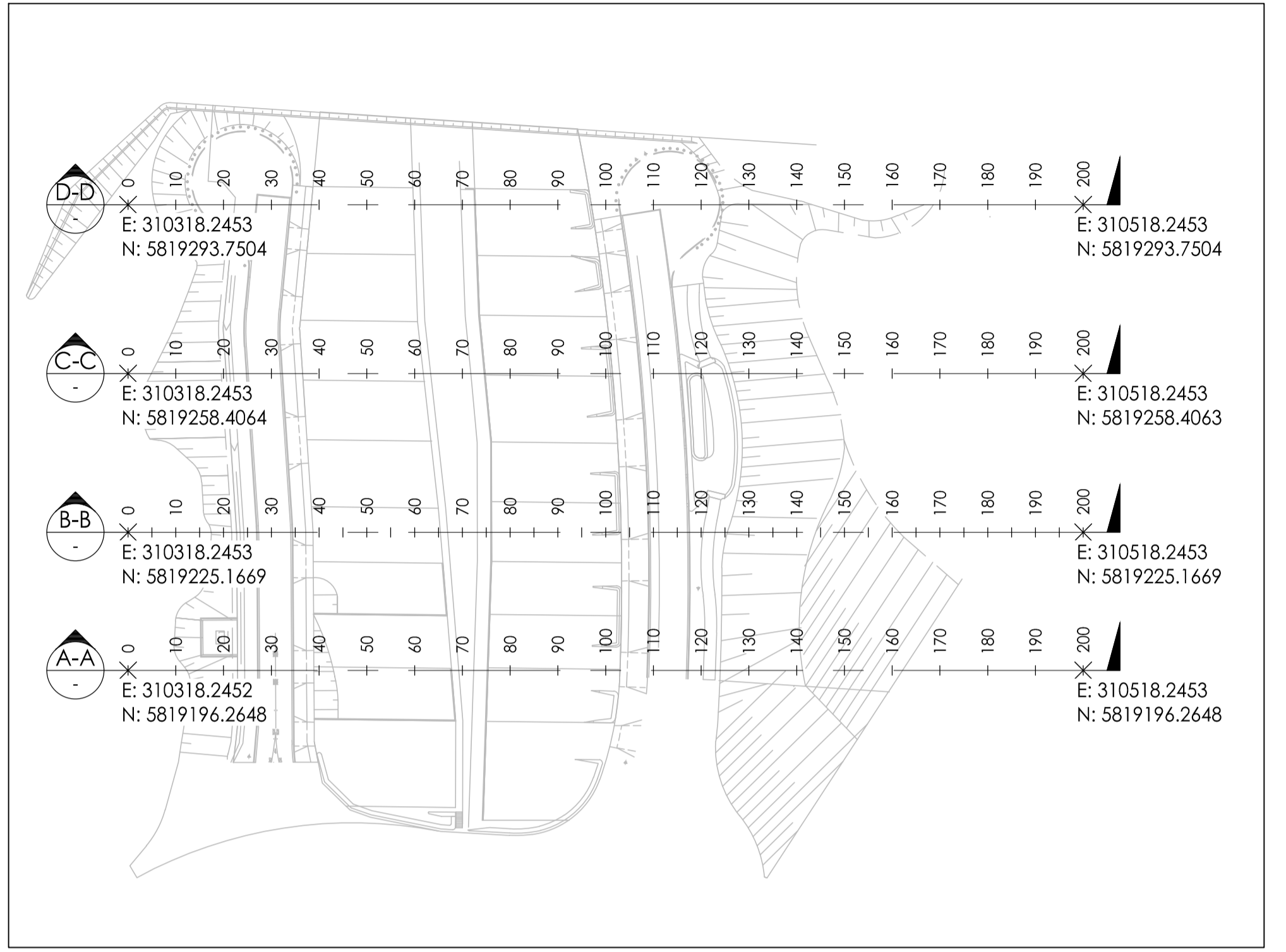
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DESIGN LEVEL						26.17	27.11	26.02	24.90	25.05	23.78	22.81	22.73	22.47	22.54	22.52	22.59	22.76	23.00	23.46	23.57	23.61	23.61	23.66	23.70	23.75	23.81	23.87	23.92	23.97	24.04	24.11	24.18	24.25	24.32	24.39	24.46	24.53	24.60	24.67	24.74	24.81	24.88	24.95	25.02	25.09	25.16	25.23	25.30	25.37	25.44	25.51	25.58	25.65	25.72	25.79	25.86	25.93	26.00	26.07	26.14	26.21	26.28	26.35	26.42	26.49	26.56	26.63	26.70	26.77	26.84	26.91	26.98	27.05	27.12	27.19	27.26	27.33	27.40	27.47	27.54	27.61	27.68	27.75	27.82	27.89	27.96	28.03	28.10	28.17	28.24	28.31	28.38	28.45	28.52	28.59	28.66	28.73	28.80	28.87	28.94	29.01	29.08	29.15	29.22	29.29	29.36	29.43	29.50	29.57	29.64	29.71	29.78	29.85	29.92	29.99	30.06	30.13	30.20	30.27	30.34	30.41	30.48	30.55	30.62	30.69	30.76	30.83	30.90	30.97	31.04	31.11	31.18	31.25	31.32	31.39	31.46	31.53	31.60	31.67	31.74	31.81	31.88	31.95	32.02	32.09	32.16	32.23	32.30	32.37	32.44	32.51	32.58	32.65	32.72	32.79	32.86	32.93	33.00	33.07	33.14	33.21	33.28	33.35	33.42	33.49	33.56	33.63	33.70	33.77	33.84	33.91	33.98	34.05	34.12	34.19	34.26	34.33	34.40	34.47	34.54	34.61	34.68	34.75	34.82	34.89	34.96	35.03	35.10	35.17	35.24	35.31	35.38	35.45	35.52	35.59	35.66	35.73	35.80	35.87	35.94	36.01	36.08	36.15	36.22	36.29	36.36	36.43	36.50	36.57	36.64	36.71	36.78	36.85	36.92	36.99	37.06	37.13	37.20	37.27	37.34	37.41	37.48	37.55	37.62	37.69	37.76	37.83	37.90	37.97	38.04	38.11	38.18	38.25	38.32	38.39	38.46	38.53	38.60	38.67	38.74	38.81	38.88	38.95	39.02	39.09	39.16	39.23	39.30	39.37	39.44	39.51	39.58	39.65	39.72	39.79	39.86	39.93	40.00	40.07	40.14	40.21	40.28	40.35	40.42	40.49	40.56	40.63	40.70	40.77	40.84	40.91	40.98	41.05	41.12	41.19	41.26	41.33	41.40	41.47	41.54	41.61	41.68	41.75	41.82	41.89	41.96	42.03	42.10	42.17	42.24	42.31	42.38	42.45	42.52	42.59	42.66	42.73	42.80	42.87	42.94	43.01	43.08	43.15	43.22	43.29	43.36	43.43	43.50	43.57	43.64	43.71	43.78	43.85	43.92	43.99	44.06	44.13	44.20	44.27	44.34	44.41	44.48	44.55	44.62	44.69	44.76	44.83	44.90	44.97	45.04	45.11	45.18	45.25	45.32	45.39	45.46	45.53	45.60	45.67	45.74	45.81	45.88	45.95	46.02	46.09	46.16	46.23	46.30	46.37	46.44	46.51	46.58	46.65	46.72	46.79	46.86	46.93	47.00	47.07	47.14	47.21	47.28	47.35	47.42	47.49	47.56	47.63	47.70	47.77	47.84	47.91	47.98	48.05	48.12	48.19	48.26	48.33	48.40	48.47	48.54	48.61	48.68	48.75	48.82	48.89	48.96	49.03	49.10	49.17	49.24	49.31	49.38	49.45	49.52	49.59	49.66	49.73	49.80	49.87	49.94	50.01	50.08	50.15	50.22	50.29	50.36	50.43	50.50	50.57	50.64	50.71	50.78	50.85	50.92	50.99	51.06	51.13	51.20	51.27	51.34	51.41	51.48	51.55	51.62	51.69	51.76	51.83	51.90	51.97	52.04	52.11	52.18	52.25	52.32	52.39	52.46	52.53	52.60	52.67	52.74	52.81	52.88	52.95	53.02	53.09	53.16	53.23	53.30	53.37	53.44	53.51	53.58	53.65	53.72	53.79	53.86	53.93	54.00	54.07	54.14	54.21	54.28	54.35	54.42	54.49	54.56	54.63	54.70	54.77	54.84	54.91	54.98	55.05	55.12	55.19	55.26	55.33	55.40	55.47	55.54	55.61	55.68	55.75	55.82	55.89	55.96	56.03	56.10	56.17	56.24	56.31	56.38	56.45	56.52	56.59	56.66	56.73	56.80	56.87	56.94	57.01	57.08	57.15	57.22	57.29	57.36	57.43	57.50	57.57	57.64	57.71	57.78	57.85	57.92	57.99	58.06	58.13	58.20	58.27	58.34	58.41	58.48	58.55	58.62	58.69	58.76	58.83	58.90	58.97	59.04	59.11	59.18	59.25	59.32	59.39	59.46	59.53	59.60	59.67	59.74	59.81	59.88	59.95	60.02	60.09	60.16	60.23	60.30	60.37	60.44	60.51	60.58	60.65	60.72	60.79	60.86	60.93	61.00	61.07	61.14	61.21	61.28	61.35	61.42	61.49	61.56	61.63	61.70	61.77	61.84	61.91	61.98	62.05	62.12	62.19	62.26	62.33	62.40	62.47	62.54	62.61	62.68	62.75	62.82	62.89	62.96	63.03	63.10	63.17	63.24	63.31	63.38	63.45	63.52	63.59	63.66	63.73	63.80	63.87	63.94	64.01	64.08	64.15	64.22	64.29	64.36	64.43	64.50	64.57	64.64	64.71	64.78	64.85	64.92	64.99	65.06	65.13	65.20	65.27	65.34	65.41	65.48	65.55	65.62	65.69	65.76	65.83	65.90	65.97	66.04	66.11	66.18	66.25	66.32	66.39	66.46	66.53	66.60	66.67	66.74	66.81	66.88	66.95	67.02	67.09	67.16	67.23	67.30	67.37	67.44	67.51	67.58	67.65	67.72	67.79	67.86	67.93	68.00	68.07	68.14	68.21	68.28	68.35	68.42	68.49	68.56	68.63	68.70	68.77	68.84	68.91	68.98	69.05	69.12	69.19	69.26	69.33	69.40	69.47	69.54	69.61	69.68	69.75	69.82	69.89	69.96	70.03	70.10	70.17	70.24	70.31	70.38	70.45	70.52	70.59	70.66	70.73	70.80	70.87	70.94	71.01	71.08	71.15	71.22	71.29	71.36	71.43	71.50	71.57	71.64	71.71	71.78	71.85	71.92	71.99	72.06	72.13	72.20	72.27	72.34	72.41	72.48	72.55	72.62	72.69	72.76	72.83	72.90	72.97	73.04	73.11	73.18	73.25	73.32	73.39	73.46	73.53	73.60	73.67	73.74	73.81	73.88	73.95	74.02	74.09	74.16	74.23	74.30	74.37	74.44	74.51	74.58	74.65	74.72	74.79	74.86	74.93	75.00	75.07	75.14	75.21	75.28	75.35	75.42	75.49	75.56	75.63	75.70	75.77	75.84	75.91	75.98	76.05	76.12	76.19	76.26	76.33	76.40	76.47	76.54	76.61	76.68	76.75	76.82	76.89	76.96	77.03	77.10	77.17	77.24	77.31	77.38	77.45	77.52	77.59	77.66	77.73	77.80	77.87	77.94	78.01	78.08	78.15	78.22	78.29	78.36	78.43	78.50	78.57	78.64	78.71	78.78	78.85	78.92	78.99	79.06	79.13	79.20	79.27	79.34	79.41	79.48	79.55	79.62	79.69	79.76	79.83	79.90	79.97	80.04	80.11	80.18	80.25	80.32	80.39	80.46	80.53	80.60	80.67	80.74	80.81	80.88	80.95	81.02	81.09	81.16	81.23	81.30	81.37	81.44	81.51	81.58	81.65	81.72	81.79	81.86	81.93	82.00	82.07	82.14	82.21	82.28	82.35	82.42	82.49	82.56	82.63	82.70	82.77	82.84	82.91	82.98	83.05	83.12	83.19	83.26	83.33	83.40	83.47	83.54	83.61	83.68	83.75	83.82	83.89	83.96	84.03	84.10	84.17	84.24	84.31	84.38	84.45	84.52	84.59	84.66	84.73	84.80	84.87	84.94	85.01	85.08	85.15	85.22	85.29	85.36	85.43	85.50	85.57	85.64	85.71	85.78	85.85	85.92	85.99	86.06	86.13	86.20	86.27	86.34	86.41	86.48	86.55	86.62	86.69	86.76	86.83	86.90	86.97	87.04	87.11	87.18	87.25	87.32	87.39	87.46	87.53	87.60	87.67	87.74	87.81	87.88	87.95	88.02	88.09	88.16	88.23	88.30	88.37	88.44	88.51	88.58	88.65	88.72	88.79	88.86	88.93	89.00	89.07	89.14	89.21	89.28	89.35	89.42	89.49	89.56	89.63	89.70	89.77	89.84	89.91	89.98	90.05	90.12	90.19	90.26	90.33	90.40	90.47	90.54	90.61	90.68	90.75	90.82	90.89	90.96	91.03	91.10	91.17	91.24	91.31	91.38	91.45	91.52	91.59	91.66	91.73	91.80	91.87	91.94	92.01	92.08	92.15	92.22	92.29	92.36	92.43	92.50	92.57	92.64	92.71	92.78	92.85	92.92	92.99	93.06	93.13	93.20	93.27	93.34	93.41	93.48	93.55	93.62	93.69	93.76	93.83	93.90	93.97	94.04	94.11	94.18	94.25	94.32	94.39	94.46	94.53	94.60	94.67	94.74	94.81	94.88	94.95	95.02	95.09	95.16	95.23	95.30	95.37	95.44	95.51	95.58	95.65	95.72	95.79	95.86	95.93	96.00	96.07	96.14	96.21	96.28	96.35	96.42	96.49	96.56	96.63	96.70	96.77	96.84	96.91	96.98	97.05	97.12	97.19	97.26	97.33	97.40	97.47	97.54	97.61	97.68	97.75	97.82	97.89	97.96	98.03	98.10	98.17	98.24	98.31	98.38	98.45	98.52	98.59	98.66	98.73	98.80	98.87	98.94	99.01	99.08	99.15	99.22	99.29	99.36	99.43	99.50	99.57	99.64	99.71	99.78	99.85	99.92	99.99	100.06	100.13	100.20	100.27	100.34	100.41	100.48	100.55	100.62	100.69	100.76	100.83	100.90	100.97	101.04	101.11	101.18



C-C - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)



D-D - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)



KEY PLAN
 SCALE 1:1000

BRIMBANK CITY COUNCIL
 Engineering Services
 APPROVED PLANS AND SPECIFICATIONS
 Vikramt 01 Oct 2021

Revision	Date	By	Check
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS AK

Note for Contractors
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BULK EARTHWORKS COMPLETED UNDER EARLY WORKS PACKAGE & APPROVAL. REFER ENDORSED EARLY WORKS PACKAGE FOR FURTHER INFORMATION.

SITE SECTIONS ARE PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY AND ARE NOT TO BE USED TO SET OUT THE WORKS.

ISSUED FOR CONSTRUCTION



CIVIL SITEWORKS
 MELBOURNE
 T: (03) 9383 2800 | E: info@cjarms.com | W: www.cjarms.com

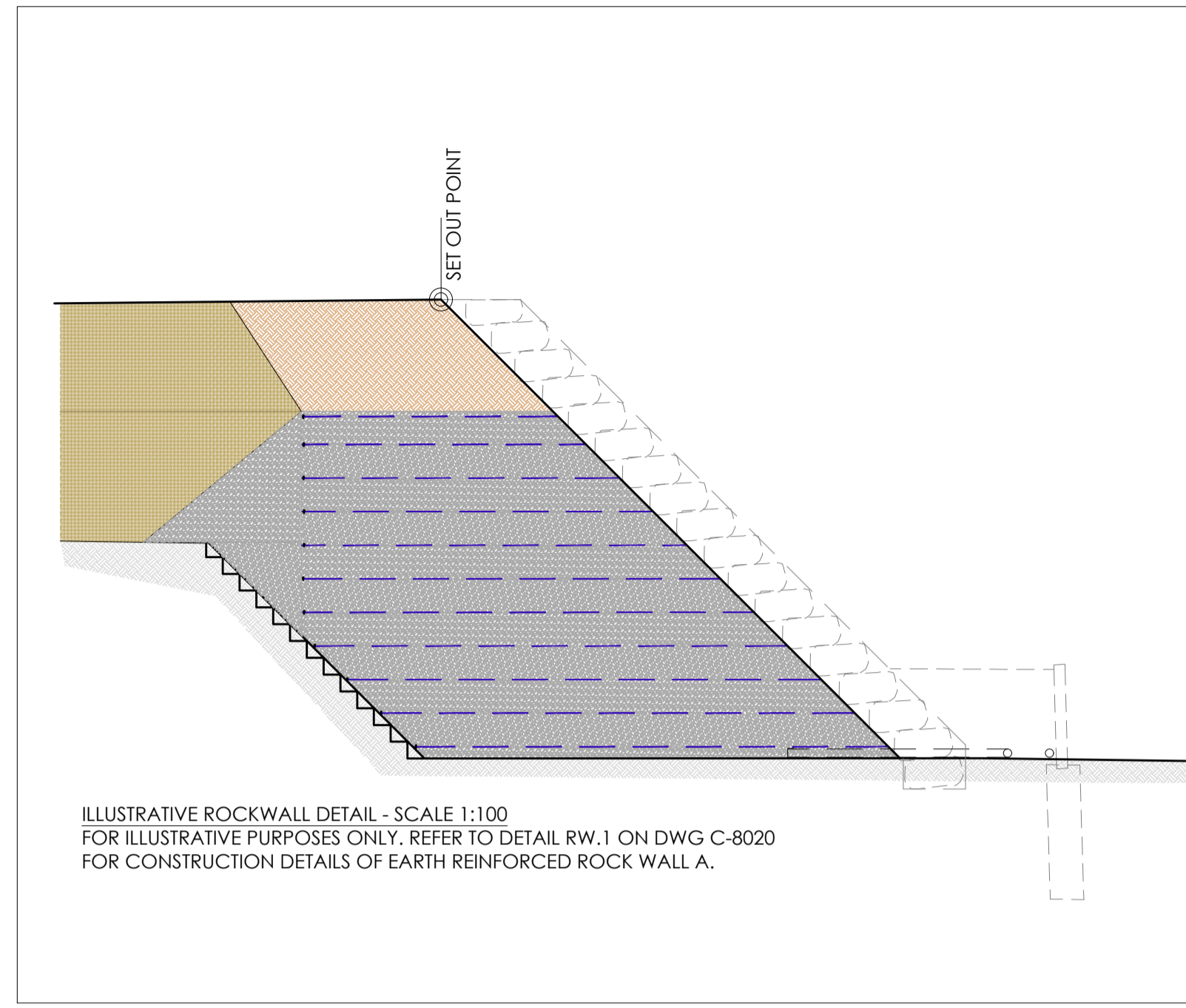
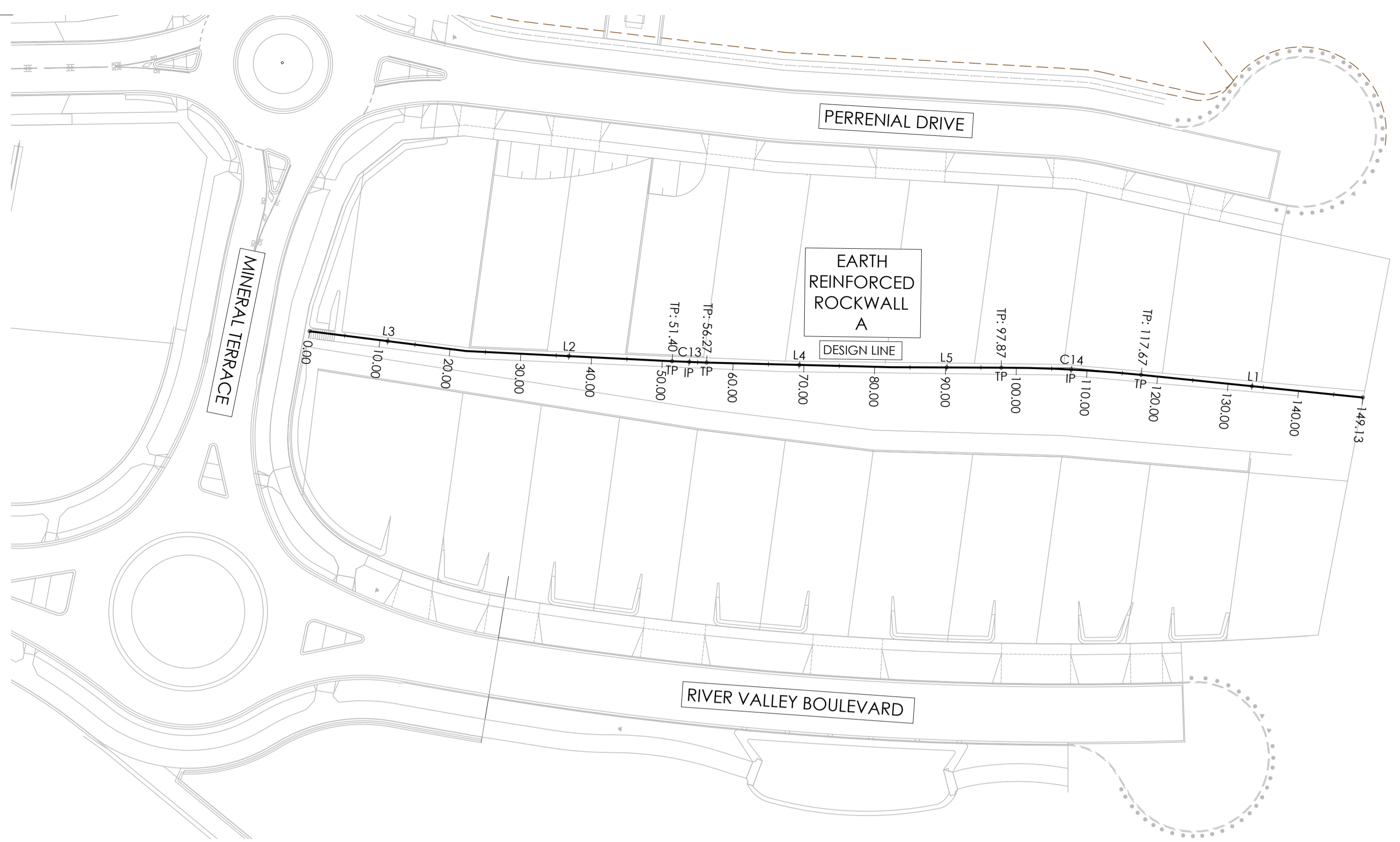
Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issue: ISSUED FOR CONSTRUCTION

Drawn By: JSS
 Checked By: AK
 Date of Issue: 17.04.2021

Revision: 0
 Number: 2101
 Reason: 0

Set Out Table for DL - MAJOR ROCKWALL A - TOW

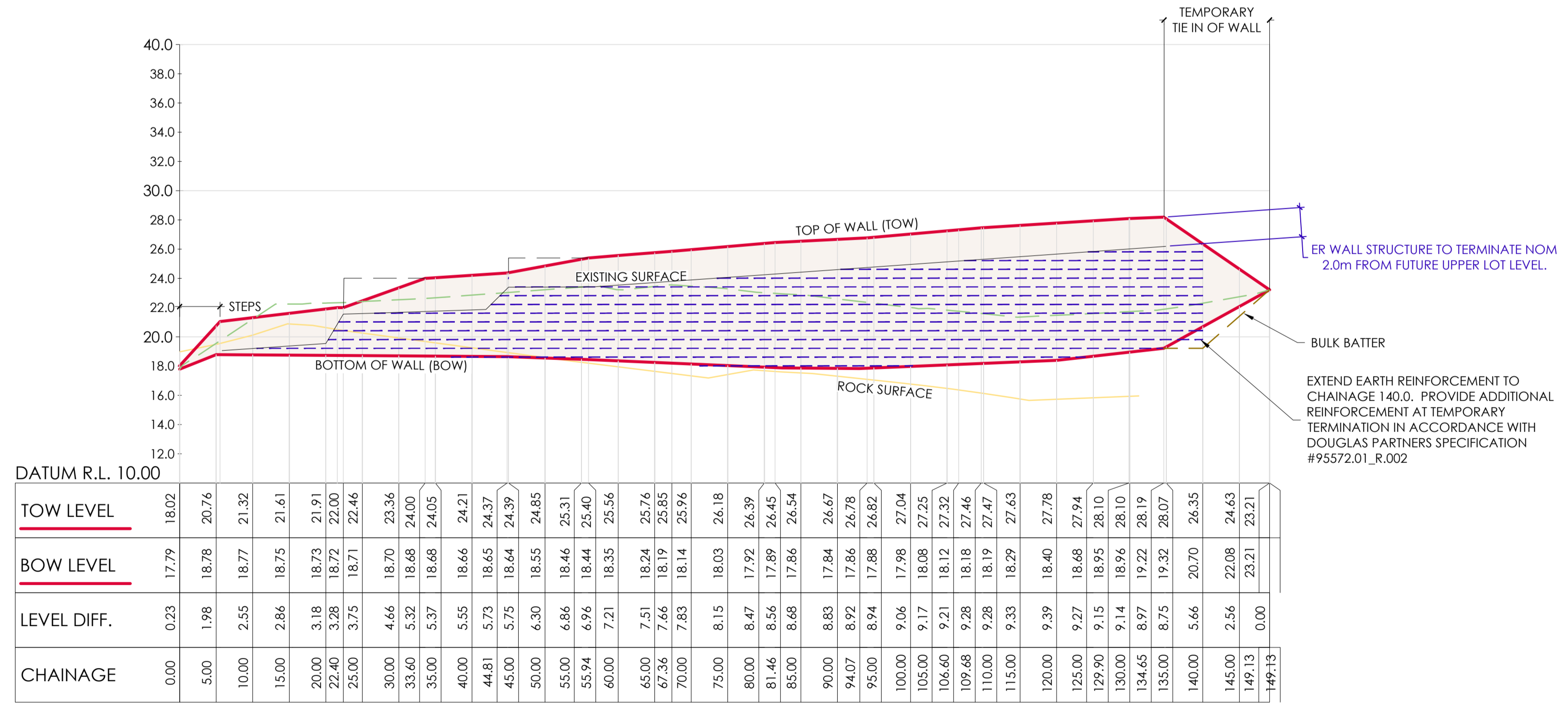
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L3	START	0.00	310387.300	5819163.057	22.24		000° 08' 43"
	END	22.24	310387.356	5819185.302			
L2	START	22.24	310387.356	5819185.302	29.15		355° 47' 49"
	END	51.40	310385.220	5819214.375			
C13	TP	51.40	310385.220	5819214.375	4.88	200.0	355° 05' 55.44"
	IP	53.83	310385.041	5819216.807			
	TP	56.27	310384.803	5819219.233			
L4	START	56.27	310384.803	5819219.233	26.20		354° 24' 02"
	END	82.47	310382.247	5819245.303			
L5	START	82.47	310382.247	5819245.303	15.41		353° 07' 31"
	END	97.87	310380.403	5819260.598			
C14	TP	97.87	310380.403	5819260.598	19.80	201.0	355° 56' 49.28"
	IP	107.78	310379.217	5819270.433			
	TP	117.67	310379.005	5819280.337			
L1	START	117.67	310379.005	5819280.337	31.46		358° 46' 08"
	END	149.13	310378.329	5819311.788			



BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

TABLE.04 - GEOGRID SCHEDULE - INSTALL CHAINAGES

RL (m)	CHAINAGE							
	5 to 20	20 to 40	40 to 60	60 to 75	75 to 90	90 to 105	105 to 120	120 to 135
25.7							4.3	
25.1							4.9	
24.5						4.4	4.9	5.5
23.9					3.9	5.0	5.5	6.1
23.3				4.0	4.5	5.6	6.1	6.7
22.7				4.6	5.1	6.2	6.7	7.3
22.1				5.2	5.7	6.8	7.3	7.9
21.5			4.5	5.8	6.3	7.4	7.9	8.5
20.9			5.1	6.4	6.9	8.0	8.5	9.1
20.3		4.5	5.7	7.0	7.5	8.6	9.1	9.7
19.7		5.1	6.3	7.6	8.1	9.2	9.7	10.3
19.1	4.0	5.7	6.9	8.2	8.7	9.8	10.3	10.9
18.5	4.6	6.3	7.5	8.8	9.3	10.4	10.9	11.5
17.9			8.1	9.4	9.9	11.0	11.5	
17.3				10.0	10.5			



EARTH REINFORCED ROCKWALL A - LONG SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:250 (2x)

	DATUM R.L. 10.00
TOW LEVEL	18.02
BOW LEVEL	17.79
LEVEL DIFF.	0.23
CHAINAGE	0.00

Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JS	AK

1. This drawing is copyright of CJ Arms. It may not be copied or reproduced without written consent from the owner.
 2. Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
 3. All contractors must call site and be responsible for taking and checking all dimensions related to the works shown on the drawing prior to fabrication or setting out.

Note for Contractors
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Dial before you dig. BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

NOTE:
THE INFORMATION CONTAINED ON THIS PLAN IS A REPRESENTATION OF THE DESIGN PREPARED BY DOUGLAS PARTNERS. REFER TO:
- DOUGLAS PARTNERS REPORT #95572.01_R001 FOR DESIGN AND CERTIFICATION OF THE ROCK WALL
DOUGLAS PARTNERS REPORT #95572.01_R002 FOR CONSTRUCTION SPECIFICATION.
ANY DISCREPANCIES BETWEEN THE DESIGN DRAWINGS AND THE DOUGLAS PARTNERS REQUIREMENTS SHALL BE REFERRED TO THE SUPERINTENDENT.



ISSUED FOR CONSTRUCTION

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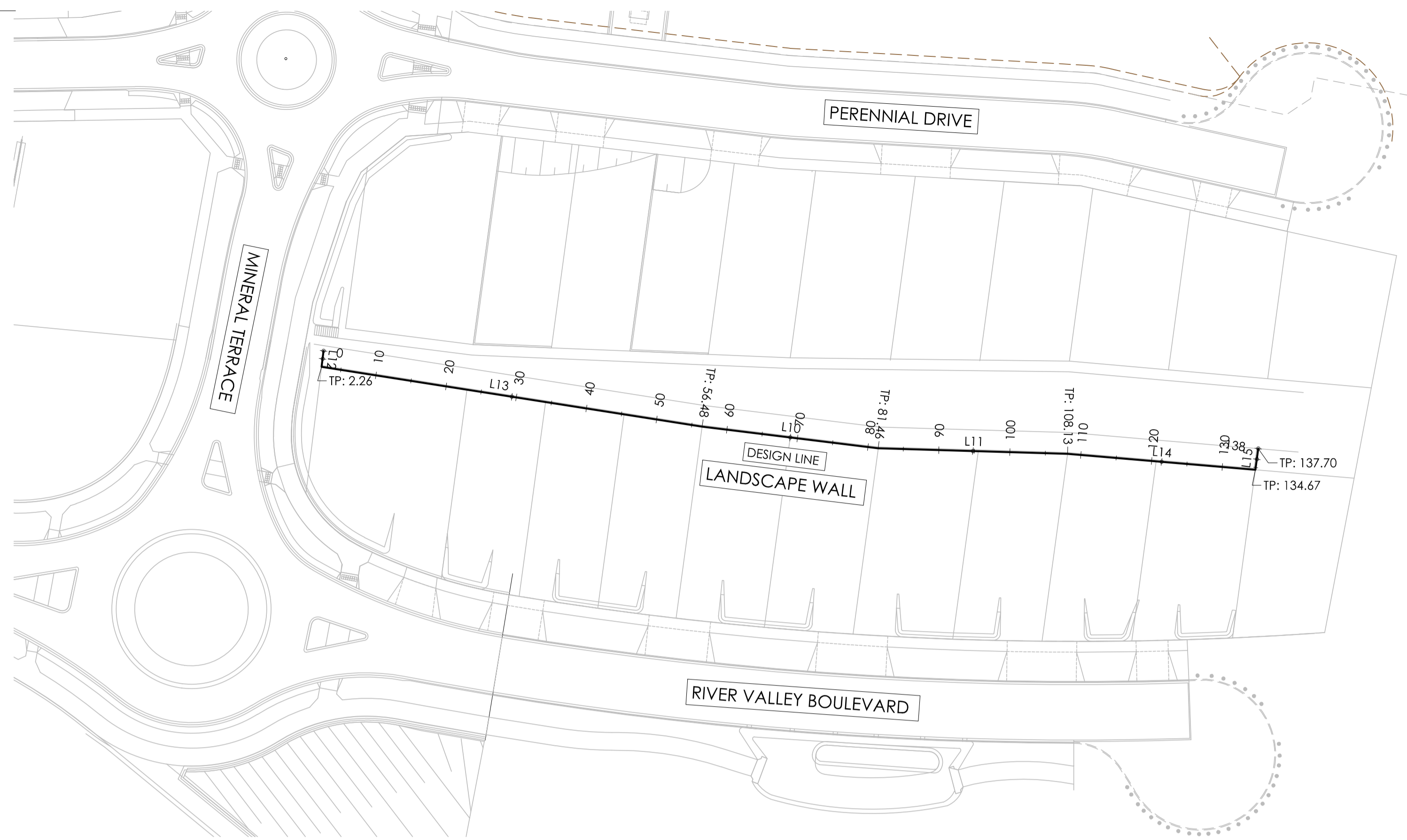
Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND

ISSUED FOR CONSTRUCTION

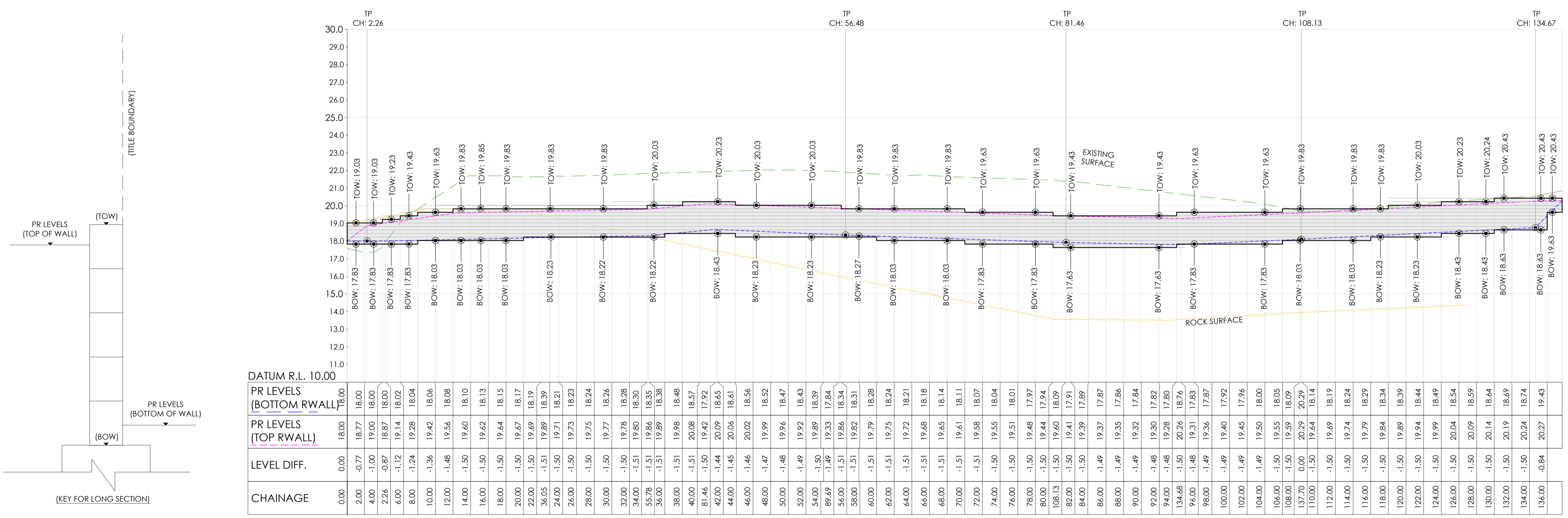
Project Number	Client	Drawn	Level	File Type	Revised	Number	Reason
15019	CJA	JS	7C	XX	DR	C	4000 0

Drawn By: JS
 Checked By: AK
 Date of Issue: 17.04.20

Set Out Table for DL - LANDSCAPE WALL A - BOW - HA							
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L12	START END	0.00 2.26	310390.338 310392.594	5819164.910 5819164.910	2.26		090° 00' 00"
L13	START END	2.26 56.48	310392.594 310394.377	5819164.910 5819219.104	54.22		001° 53' 02"
L10	START END	56.48 81.46	310394.377 310394.365	5819219.104 5819244.087	24.98		359° 58' 24"
L11	START END	81.46 108.13	310394.365 310391.859	5819244.087 5819270.641	26.67		354° 36' 34"
L14	START END	108.13 134.67	310391.859 310390.850	5819270.641 5819297.161	26.54		357° 49' 16"
L15	START END	134.67 137.70	310390.850 310387.828	5819297.161 5819297.182	3.02		270° 23' 48"



BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021



DL - LANDSCAPE WALL A - BOW - HA - LONG SECTION
SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2X)

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RETAINING WALL SECTIONS ARE PROVIDED BY CJ ARMS TO REPRESENT THE PROPOSED GROUND LEVEL AT THE TOP AND BOTTOM OF RETAINING WALLS.

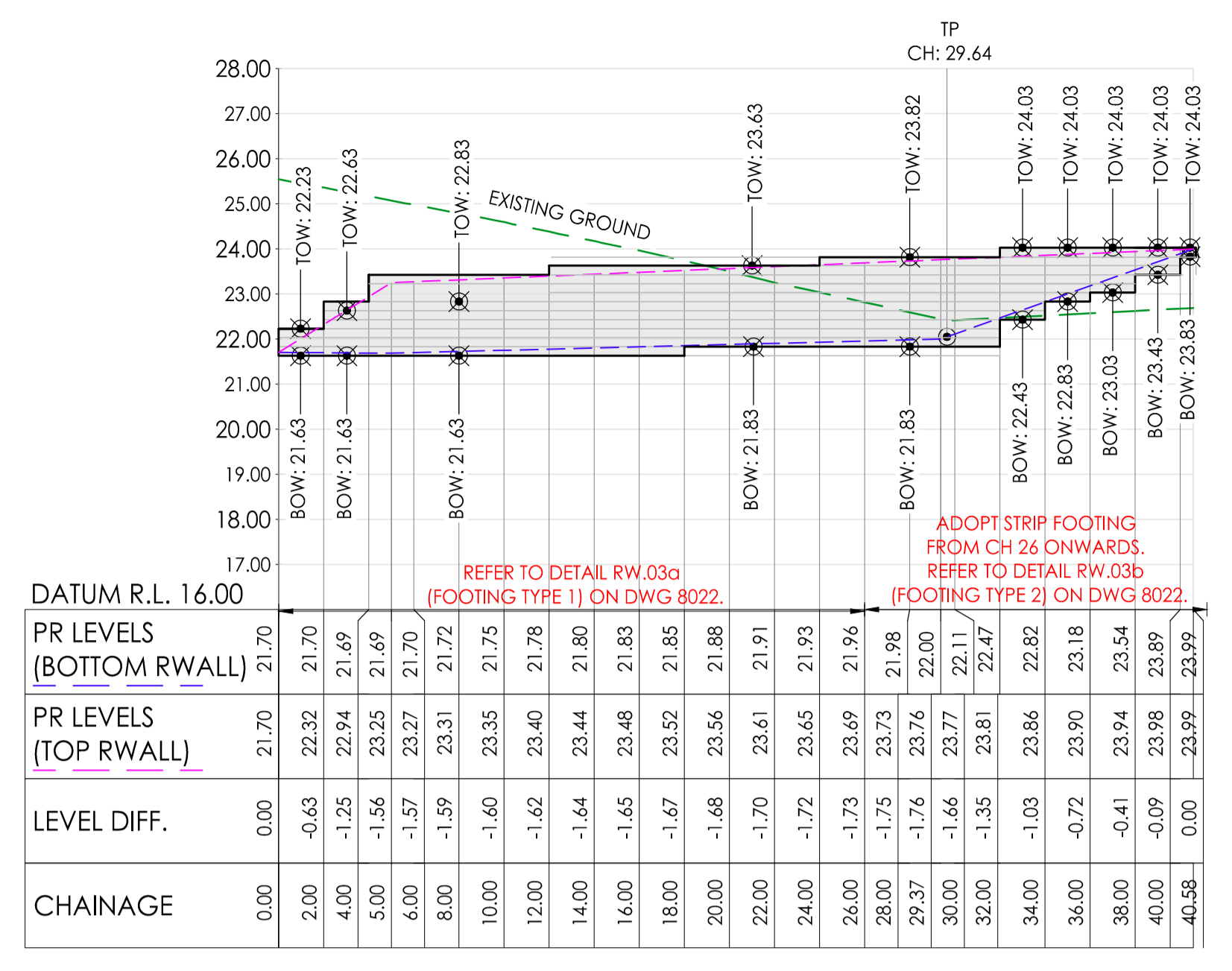
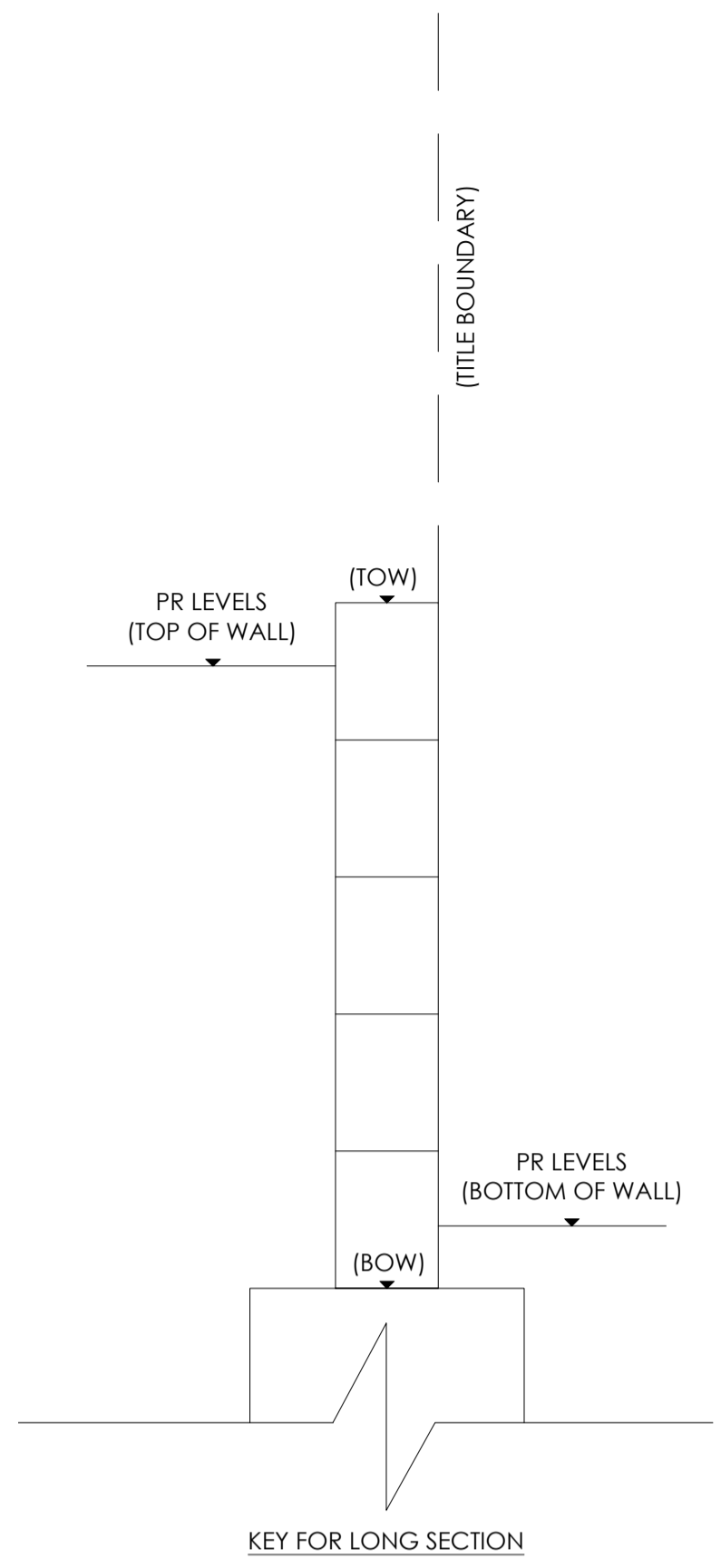
THE CONTRACTOR IS TO DETERMINE OPTIMAL CONCRETE SLEEPER HEIGHT/POST SPACING AND ASSOCIATED FOUNDATIONS TO ACHIEVE THE PROPOSED GROUND LEVELS SHOWN BY CJA.

REFER TO DRAWING C-8022 FOR RETAINING WALL DETAILS.

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

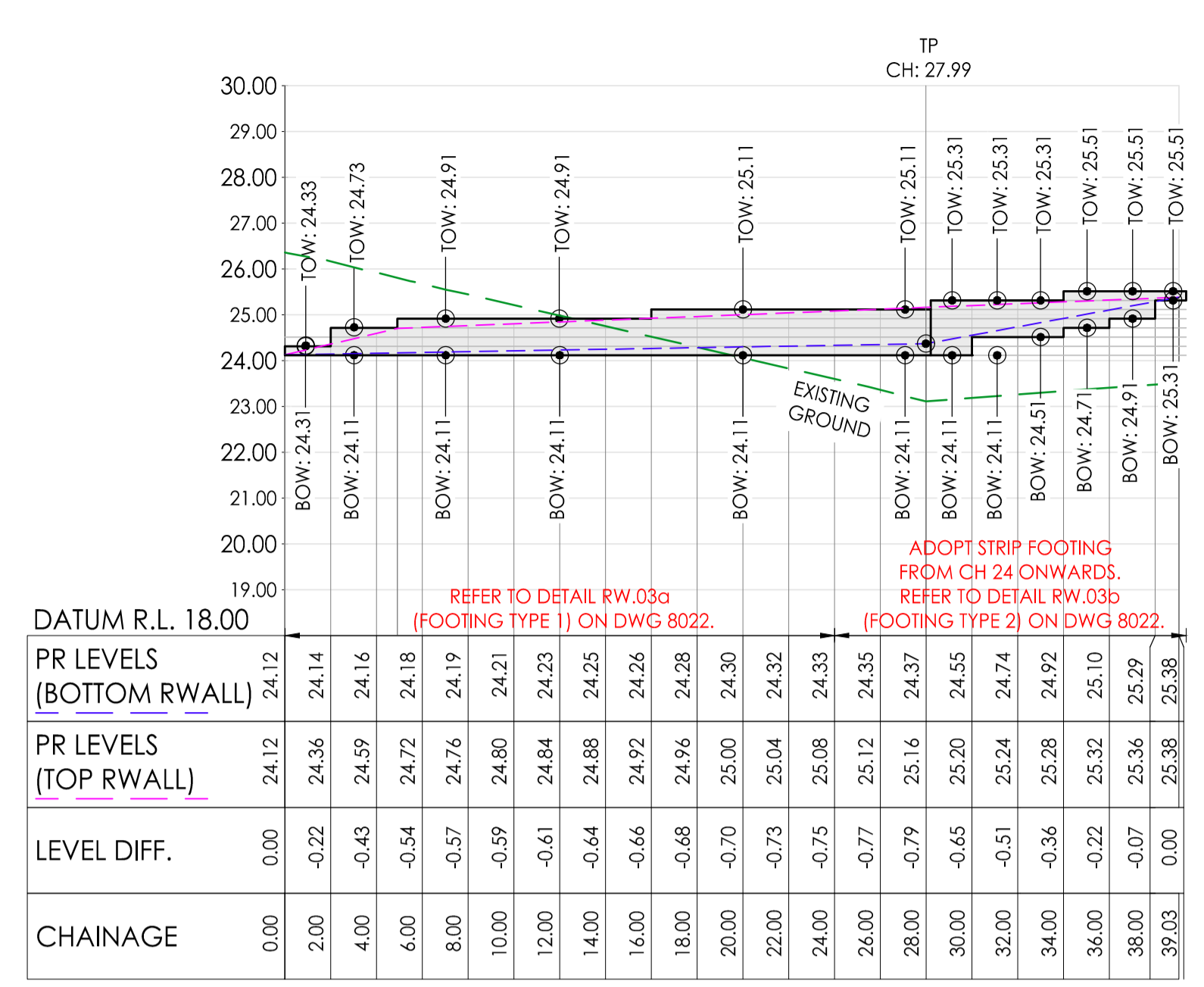
Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DL - CONC RWALL A - BOW - HA - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)

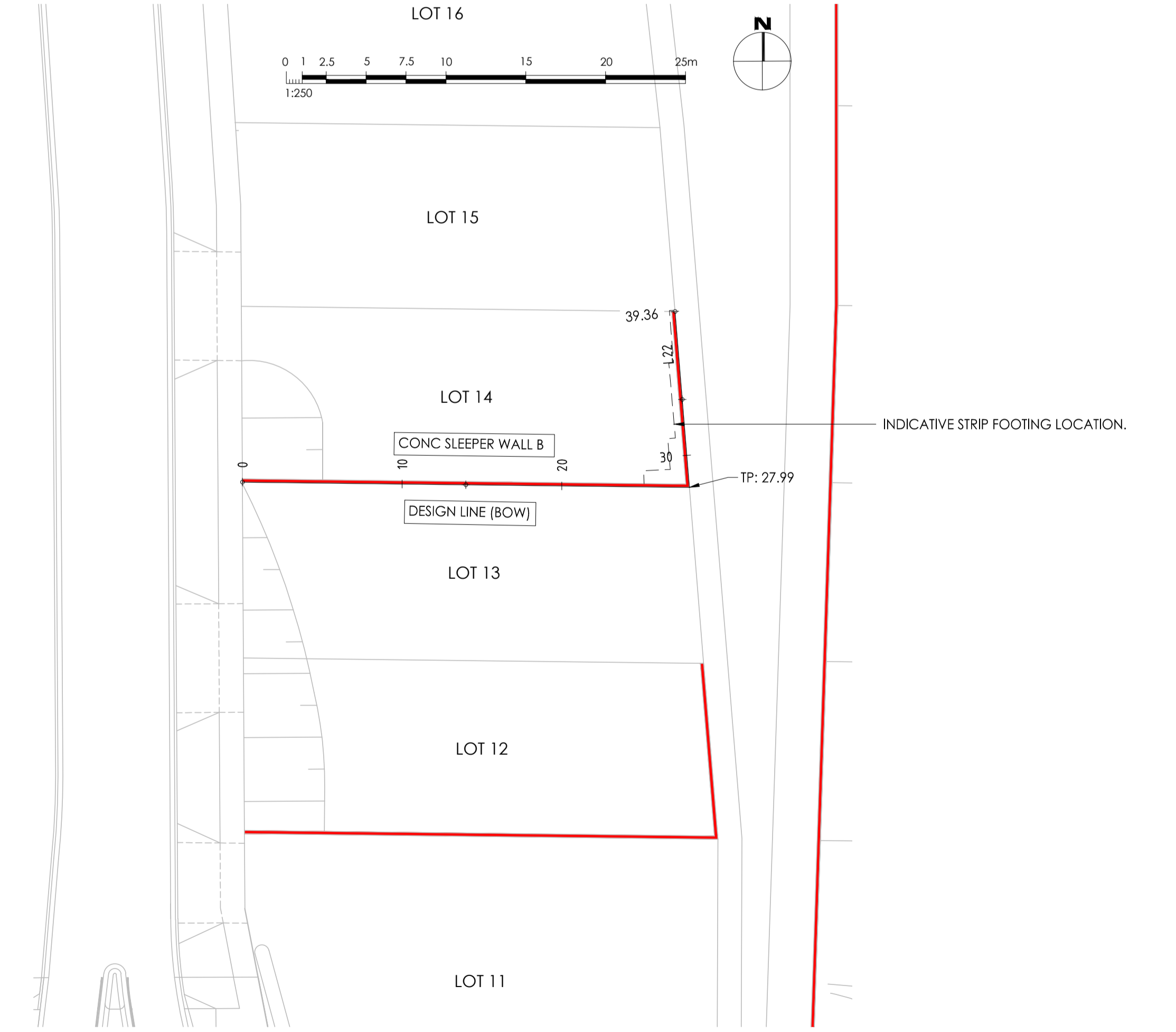
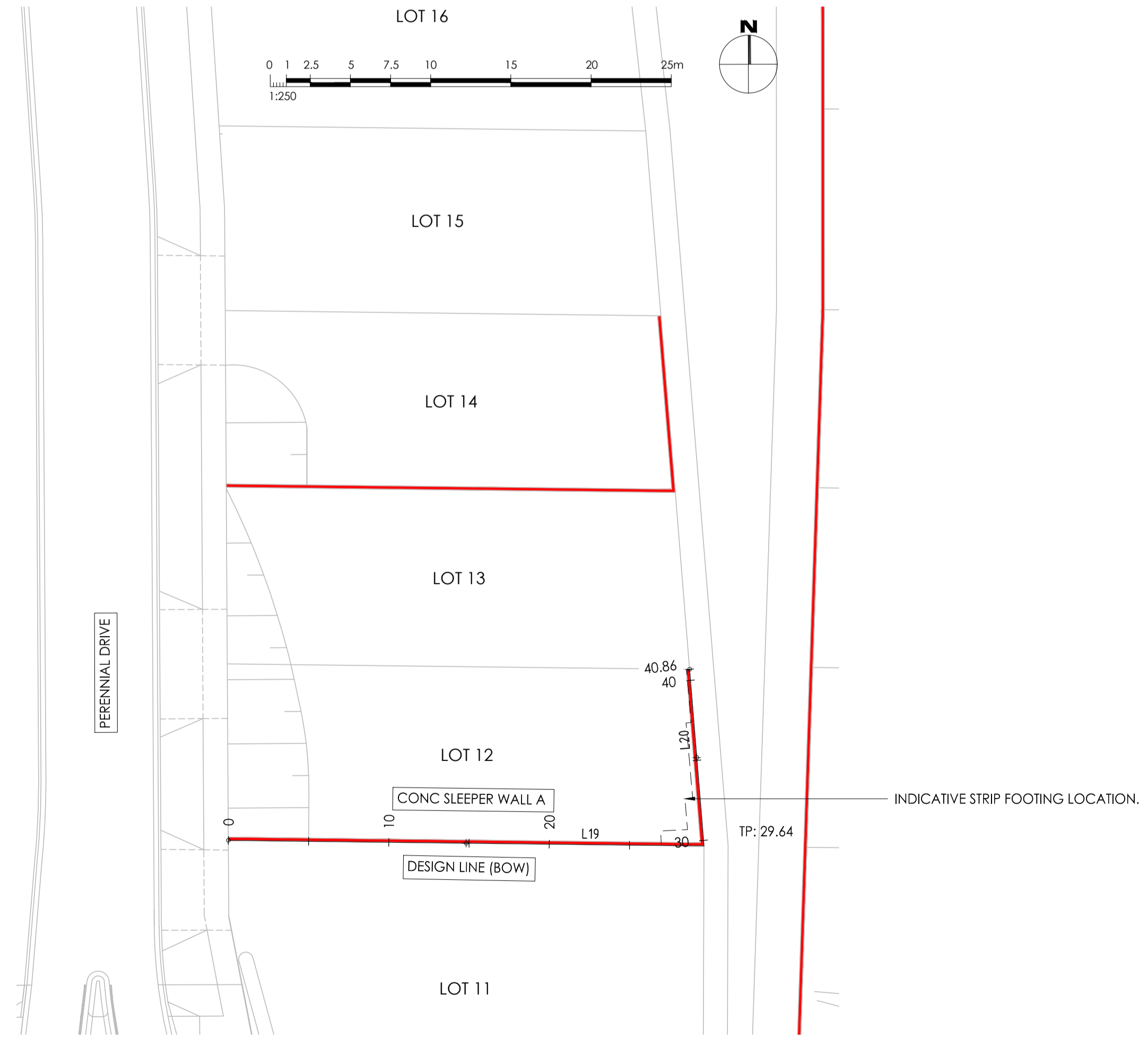
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L19	START 0.00 END 29.64	310357.215 310386.857	5819186.037 5819185.686	29.64		090° 40' 41"
L20	START 29.64 END 40.69	310386.857 310385.962	5819185.686 5819196.697	11.05		355° 21' 07"



DL - CONC RWALL B - BOW - HA - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)

TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L21	START 0.00 END 27.99	310357.083 310385.067	5819208.039 5819207.708	27.99		090° 40' 39"
L22	START 27.99 END 39.03	310385.067 310384.172	5819207.708 5819218.720	11.05		355° 21' 07"

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 APPROVED PLANS AND SPECIFICATIONS
 Vikramt 01 Oct 2021



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RETAINING WALL SECTIONS ARE PROVIDED BY CJ ARMS TO REPRESENT THE PROPOSED GROUND LEVEL AT THE TOP AND BOTTOM OF RETAINING WALLS.

THE CONTRACTOR IS TO DETERMINE OPTIMAL CONCRETE SLEEPER HEIGHT/POST SPACING AND ASSOCIATED FOUNDATIONS TO ACHIEVE THE PROPOSED GROUND LEVELS SHOWN BY CJ.A.

REFER TO C-8022 FOR CONSTRUCTION DETAILS.



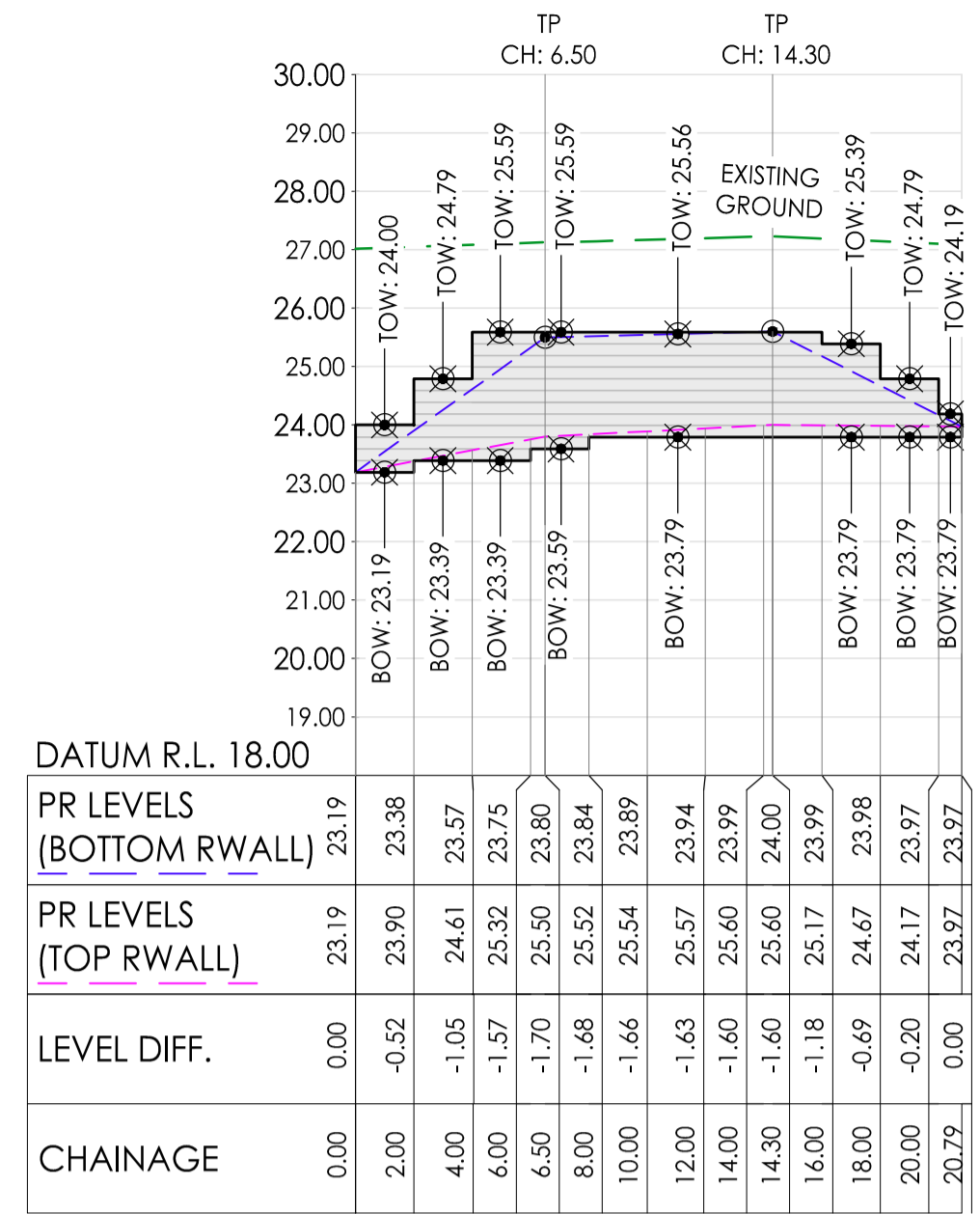
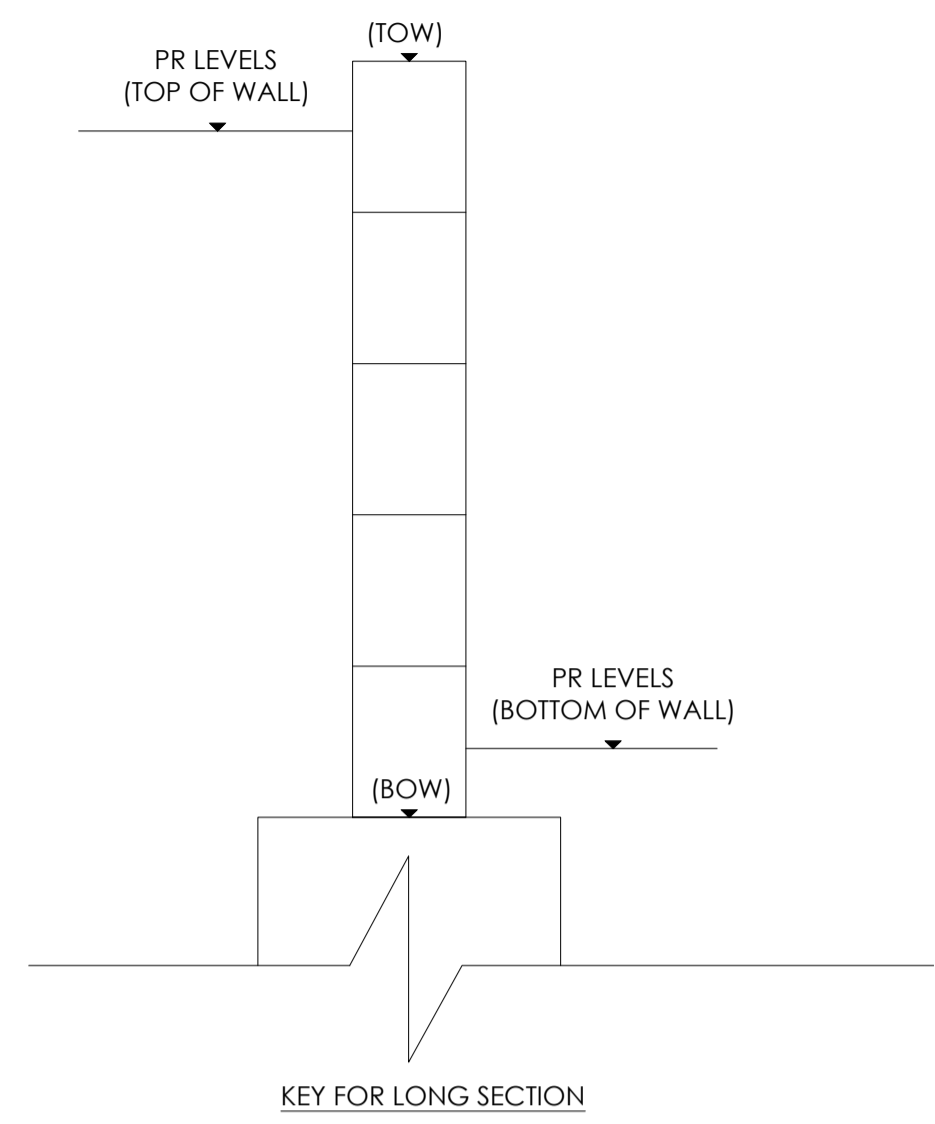
CIVIL SITWORKS
 MELBOURNE
 Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for CONSTRUCTION

Drawn By: JSS	Checked By: AX	Drawn Scale: 1:250 @ A1	Date of first issue: 31.03.21
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
File Type: DR	Base: C	Number: 4002	Revision: 0

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Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AX

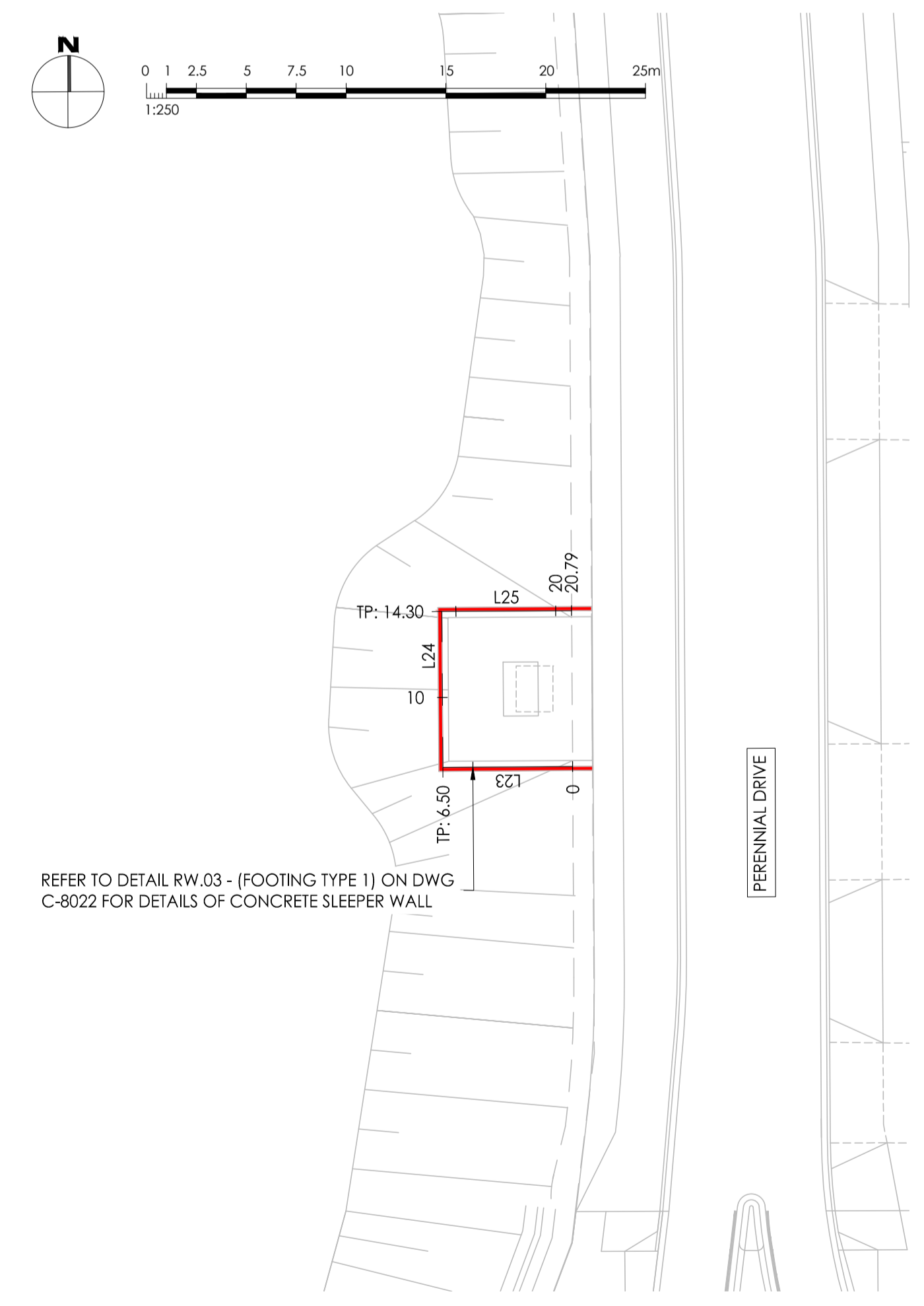
Disclaimer:
 1. This drawing is copyright of CJ Arms. It must not be copied or reproduced without written consent from the owner.
 2. Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
 3. All contractors must visit site and be responsible for finding and checking all dimensions related to the works shown on the drawing prior to fabrication or setting out.



DL - CONC RWALL C - BOW - HA - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)

Set Out Table for DL - CONC RWALL C - BOW - HA						
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	BEARING
L23	START	0.00	31034.0.135	5819199.288	6.50	269° 39' 23"
	END	6.50	310333.634	5819199.249		
L24	START	6.50	310333.634	5819199.249	7.80	359° 39' 15"
	END	14.30	310333.587	5819207.049		
L25	START	14.30	310333.587	5819207.049	6.49	089° 39' 15"
	END	20.79	31034.0.078	5819207.088		

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 Vikramt 01 Oct 2021



Revised	Date	By	Reason
0	30.09.21	JSS	ISSUED FOR CONSTRUCTION
1		AX	

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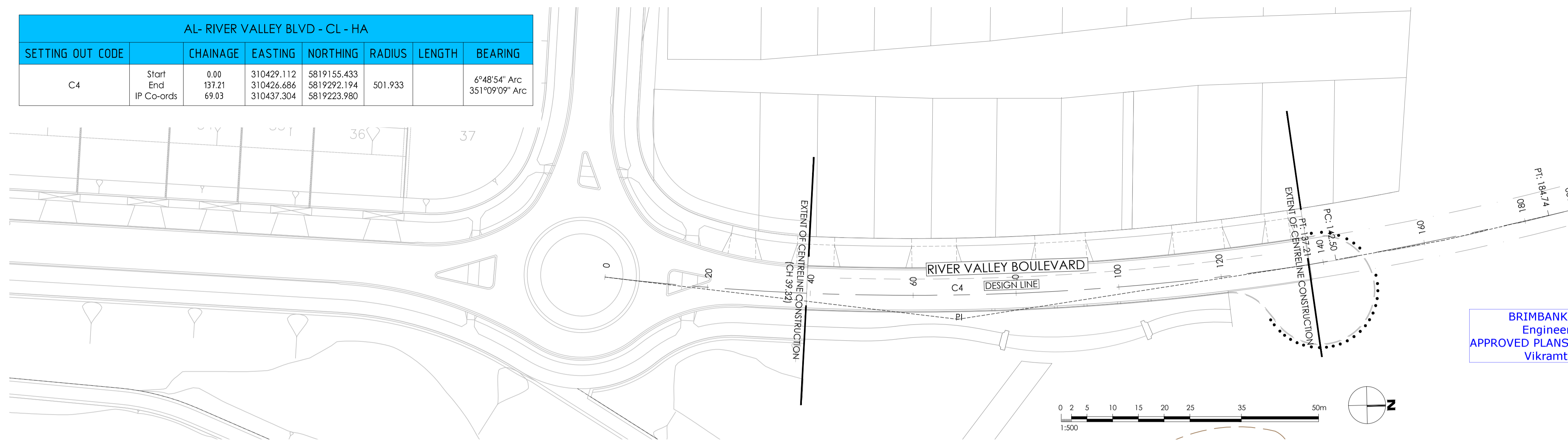
Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Drawn By: JSS
 Checked By: AX
 Drawn Scale: AS SHOWN @ A1
 Date of first issue: 16.03.21

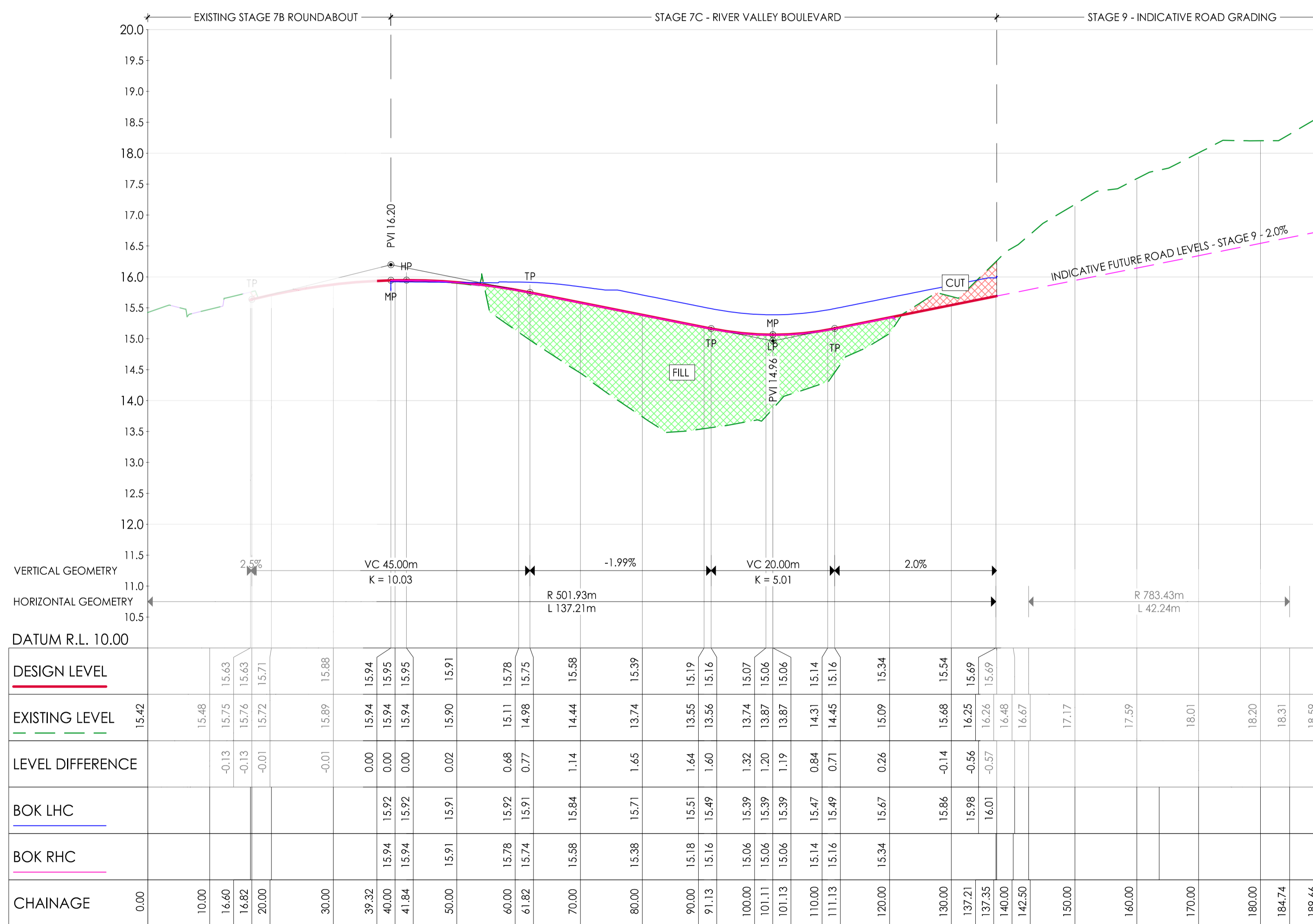
Project Number: 15019
 Origin: CJA
 Zone: 7C
 Level: XX
 File Type: DR
 Base: C
 Number: 4003
 Revision: 0

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AL- RIVER VALLEY BLVD - CL - HA							
SETTING OUT CODE		CHAINAGE	EASTING	NORTHING	RADIUS	LENGTH	BEARING
C4	Start	0.00	310429.112	5819155.433	501.933		6°48'54" Arc
	End	137.21	310426.686	5819292.194			
	IP Co-ords	69.03	310437.304	5819223.980			351°09'09" Arc



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AL- RIVER VALLEY BLVD - CL - HA - LONG SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50 (10x)

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DENOTES ENGINEERED FILL TO T+T TYPE 2 SPECIFICATION (1000780.1000.S1.REV4) AND PREPARED UNDER LEVEL 1 SUPERVISION. (AS PART OF EARLY WORKS).

DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION



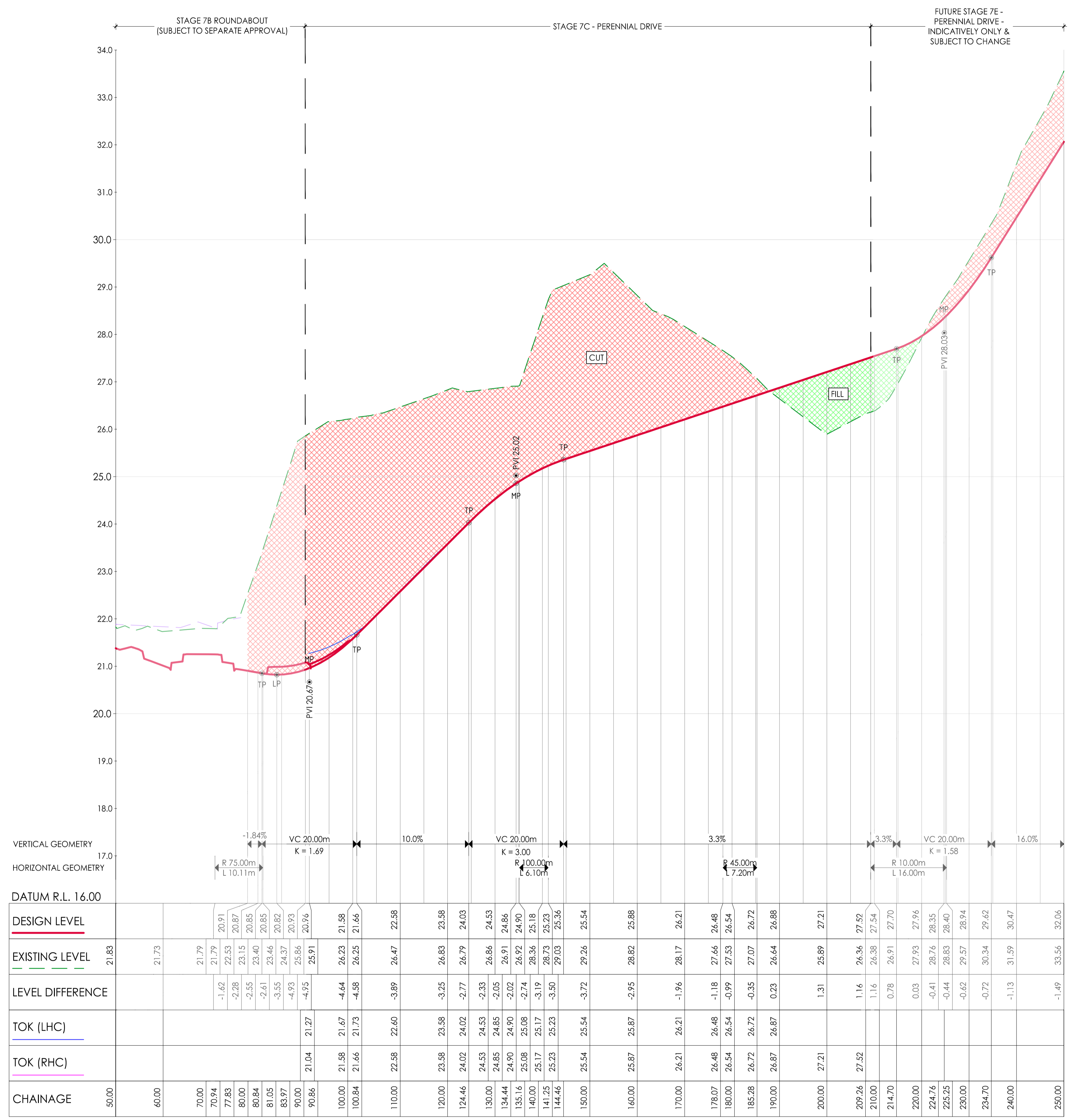
CIVIL SITWORKS
MELBOURNE
T: (03) 9385 2800 | E: info@cjarms.com | W: www.cjarms.com

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawn By: JSS
Checked By: AX
Drawn Scale: 1:500 @ A1
Date of first issue: 17.04.20

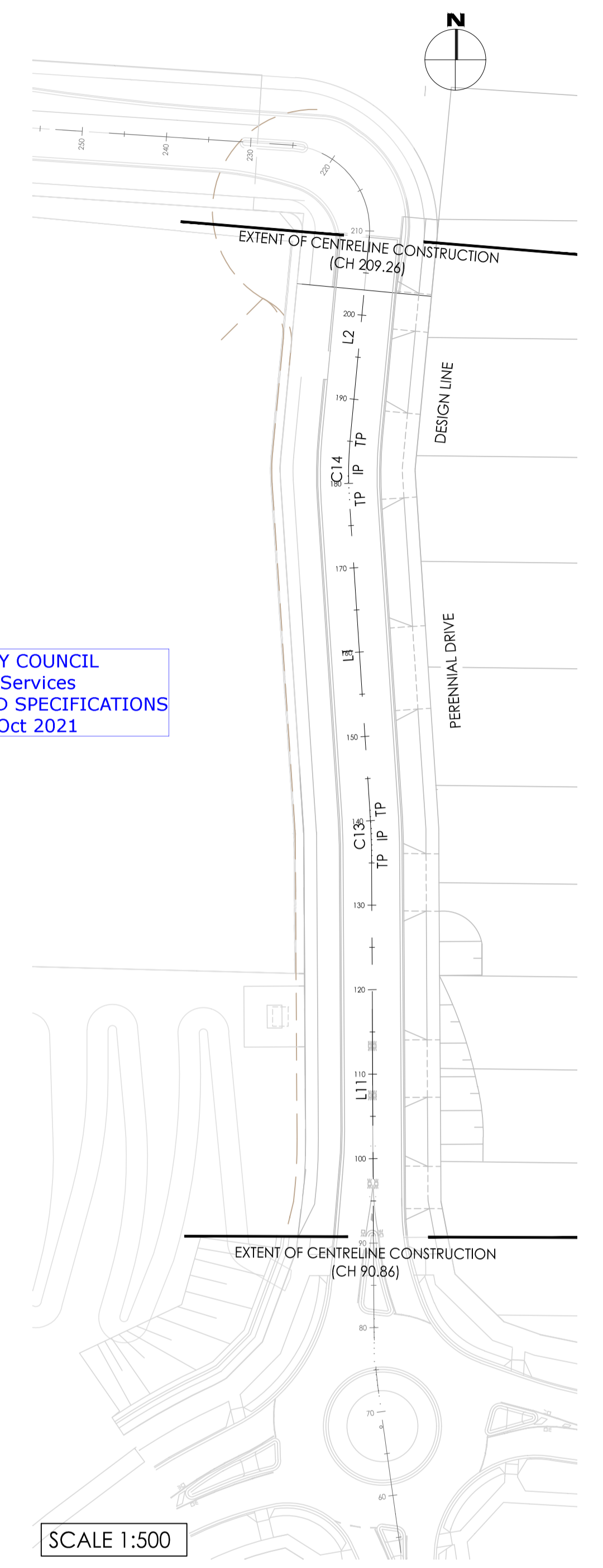
Project Number	Origin	Zone	Level	File Type	Issue	Number	Revision
15019	CJA	7C	XX	DR	C	5000	0

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AL - PERENNIAL DRIVE - CL - HA - LONG SECTION
 SCALES: HORIZONTAL 1:500 VERTICAL 1:50 (10x)

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INDICATIVE STAGE 7E LAYOUT
 SHOWN FOR ILLUSTRATIVE
 PURPOSES ONLY
 (SUBJECT TO CHANGE)

Set Out Table for AL - PERENNIAL DRIVE - CL - HA

TAG	START	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L11	START	81.05	310349.295	5819167.409	54.11		359° 43' 17"
	END	135.16	310349.032	5819221.519			
C13	TP	135.16	310349.032	5819221.519	6.10	100.0	357° 58' 31.23"
	IP	138.21	310349.017	5819224.568			
	TP	141.25	310348.817	5819227.610			
L1	START	141.25	310348.817	5819227.610	36.82		356° 13' 45"
	END	178.07	310346.395	5819264.352			
C14	TP	178.07	310346.395	5819264.352	7.20	45.0	000° 48' 55.42"
	IP	181.68	310346.158	5819267.954			
	TP	185.28	310346.498	5819271.548			
L2	START	185.28	310346.498	5819271.548	23.98		005° 24' 06"
	END	209.26	310348.755	5819295.418			

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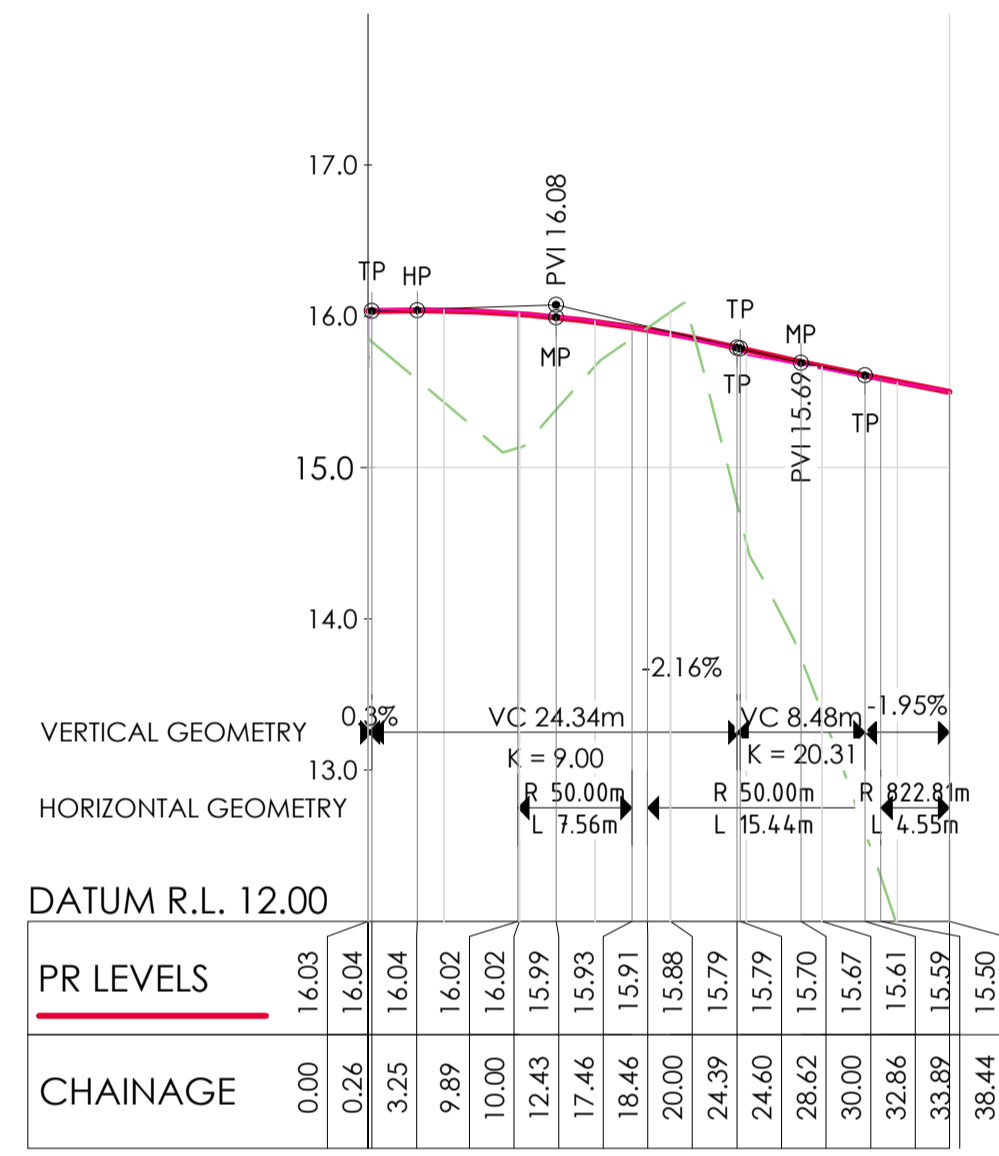
DENOTES ENGINEERED FILL TO T+1 TYPE 2 SPECIFICATION (1000780.1000.S1.REV4) AND PREPARED UNDER LEVEL 1 SUPERVISION. (AS PART OF EARLY WORKS).
 DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

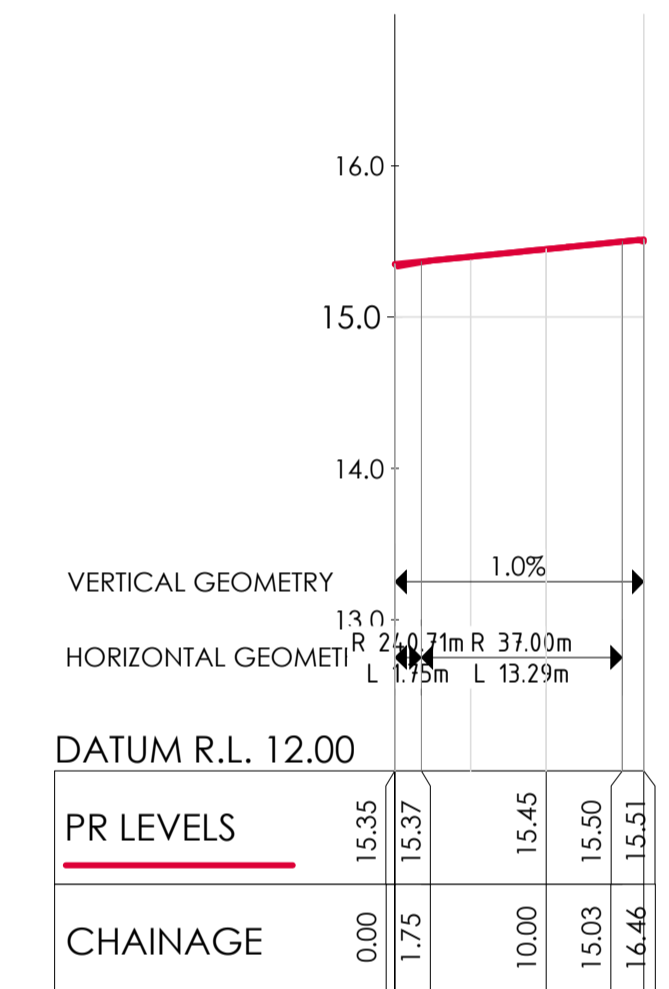
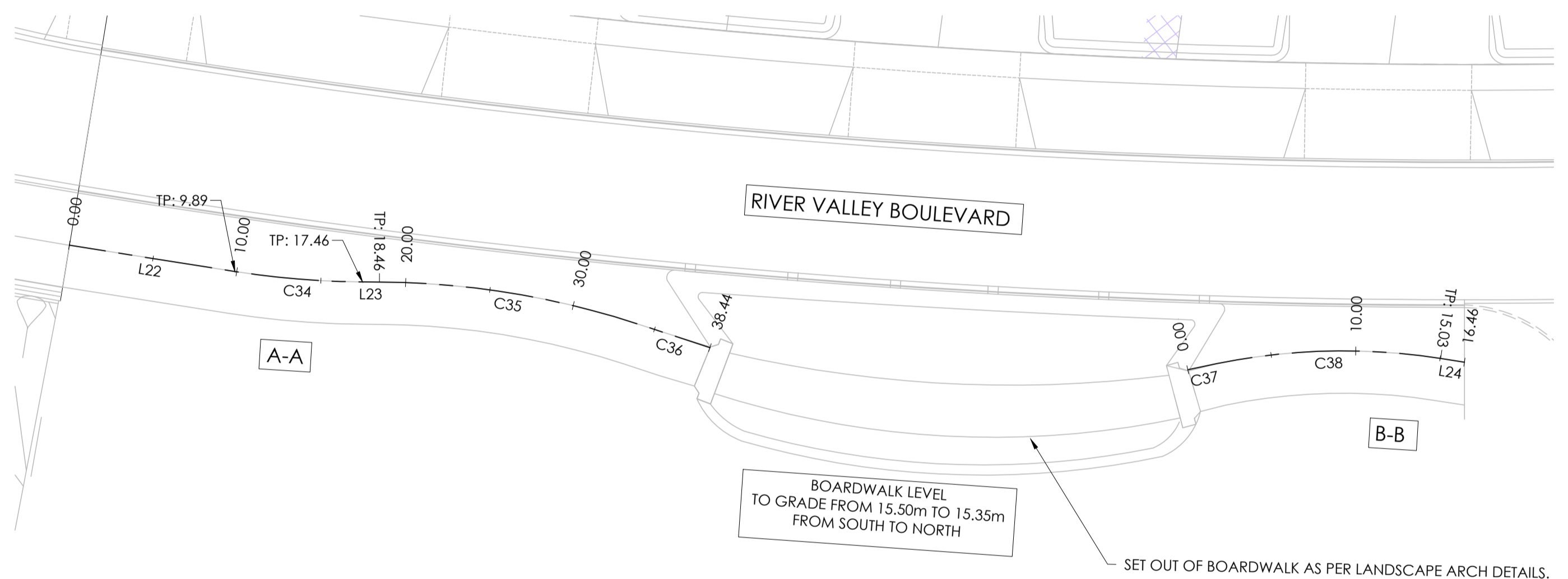
Set Out Table for A-A						
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	BEARING
L22	START	0.00	310438.662	5819194.350	9.89	001° 57' 22"
	END	9.89	310438.999	5819204.236		
C34	TP	9.89	310438.999	5819204.236	7.56	357° 37' 20.69"
	IP	13.68	310439.129	5819208.023		
	TP	17.46	310438.686	5819211.787		
L23	START	17.46	310438.686	5819211.787	1.00	353° 17' 19"
	END	18.46	310438.569	5819212.780		
C35	TP	18.46	310438.569	5819212.780	15.44	002° 08' 01.16"
	IP	26.24	310437.660	5819220.507		
	TP	33.89	310439.142	5819228.146		
C36	TP	33.89	310439.142	5819228.146	4.55	011° 08' 13.55"
	IP	36.17	310439.575	5819230.378		
	TP	38.44	310440.020	5819232.609		

Set Out Table for B-B						
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	BEARING
C37	TP	0.00	310437.855	5819260.751	1.75	341° 06' 45.42"
	IP	0.87	310437.569	5819261.576		
	TP	1.75	310437.290	5819262.402		
C38	TP	1.75	310437.290	5819262.402	13.29	351° 36' 28.27"
	IP	8.46	310435.139	5819268.764		
	TP	15.03	310435.361	5819275.476		
L24	START	15.03	310435.361	5819275.476	1.43	001° 53' 43"
	END	16.46	310435.408	5819276.900		

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Vikramt 01 Oct 2021



A-A - LONG SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50 (10x)



B-B - LONG SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50 (10x)

Revision	Date	By	Checked
0	30.09.21	JSS	AK
1	ISSUED FOR CONSTRUCTION	JSS	AK

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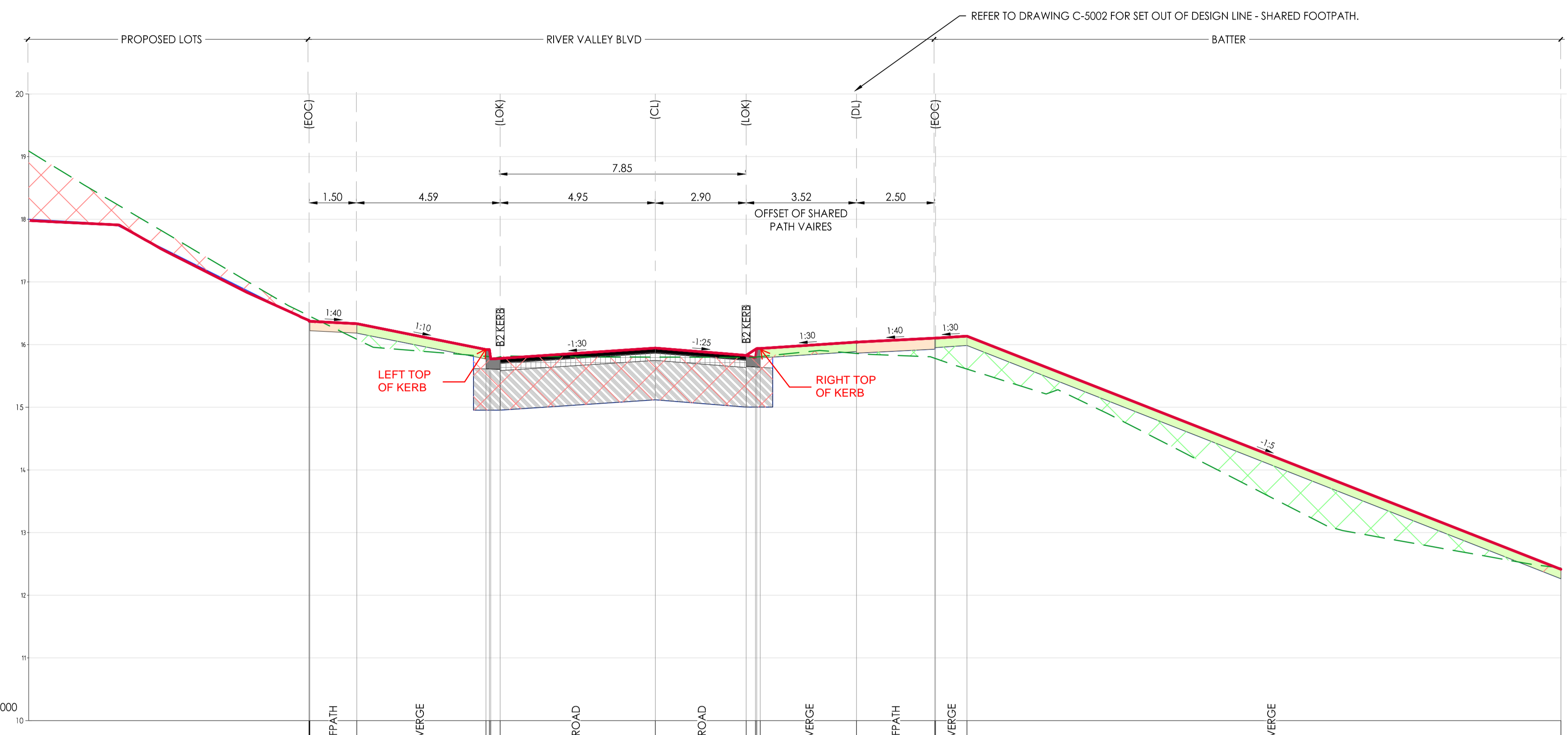
Deal before you dig. BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

ISSUED FOR CONSTRUCTION



Project: RIVER VALLEY - STAGE 7C		Drawing File: LONG SECTION - SHARED PATH	
Client: YOURLAND		Revision: 0	
Project Number: 15019		Date of First Issue: 31.03.21	
Drawn By: JSS	Checked By: BW	Drawn Scale: 1:500H 1:20V @ A1	Revision: 0
Project Number: 15019	Drawn: CJA	Level: 7C	Revision: 0
Drawn: JSS	Level: XX	File Type: DR	Revision: 0
Checked: BW	Level: C	Revision: 5002	Revision: 0

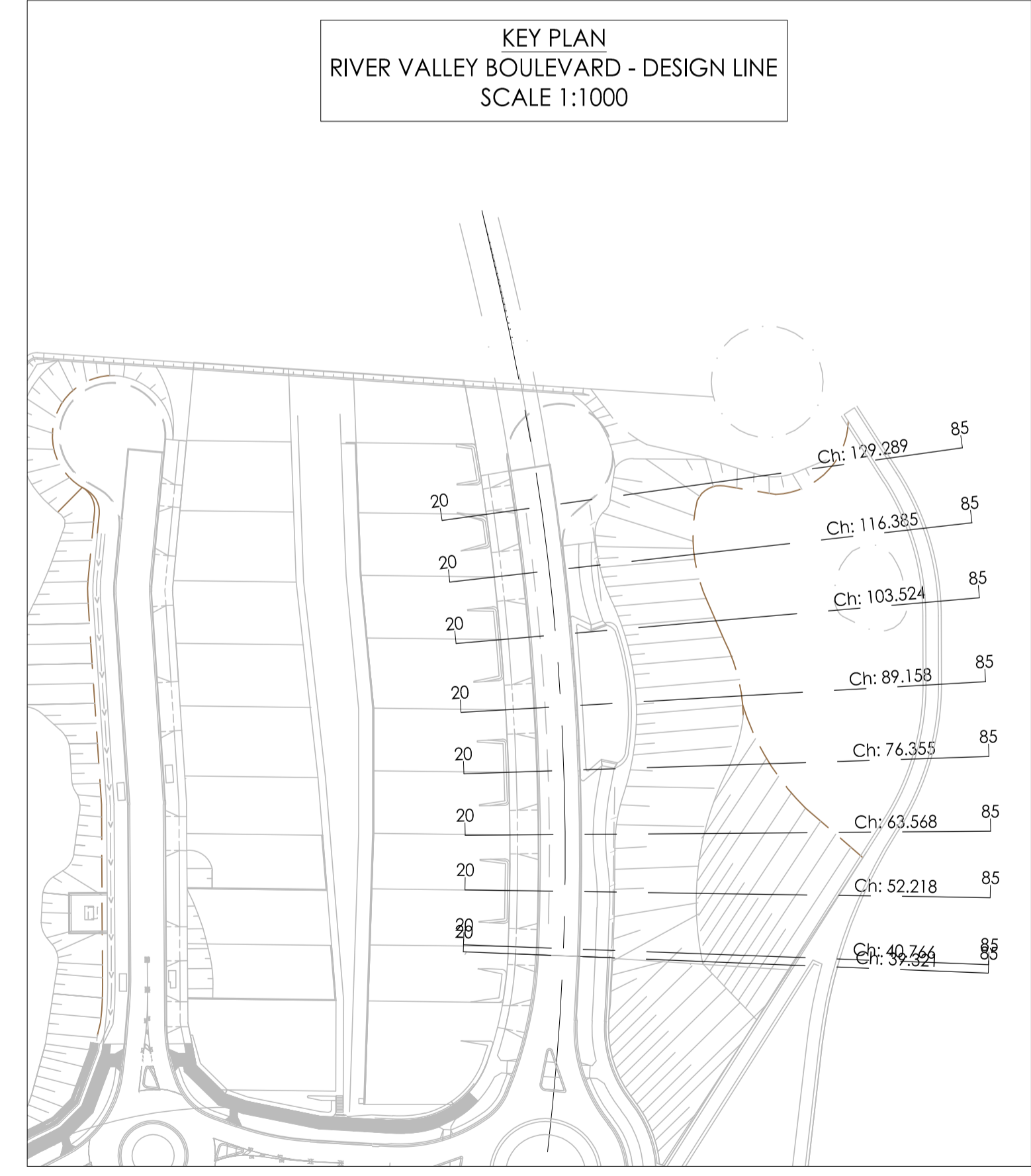
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DESIGN LEVEL														
EXISTING LEVEL														
LEVEL DIFFERENCE														
OFFSETS														

AL - RVB - CL - HA CHAINAGE 39.32
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)



Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES ENGINEERED FILL TO T+1 TYPE 2 SPECIFICATION (1000/780.1000.S1.REV4) AND PREPARED UNDER LEVEL 1 SUPERVISION. (AS PART OF EARLY WORKS).

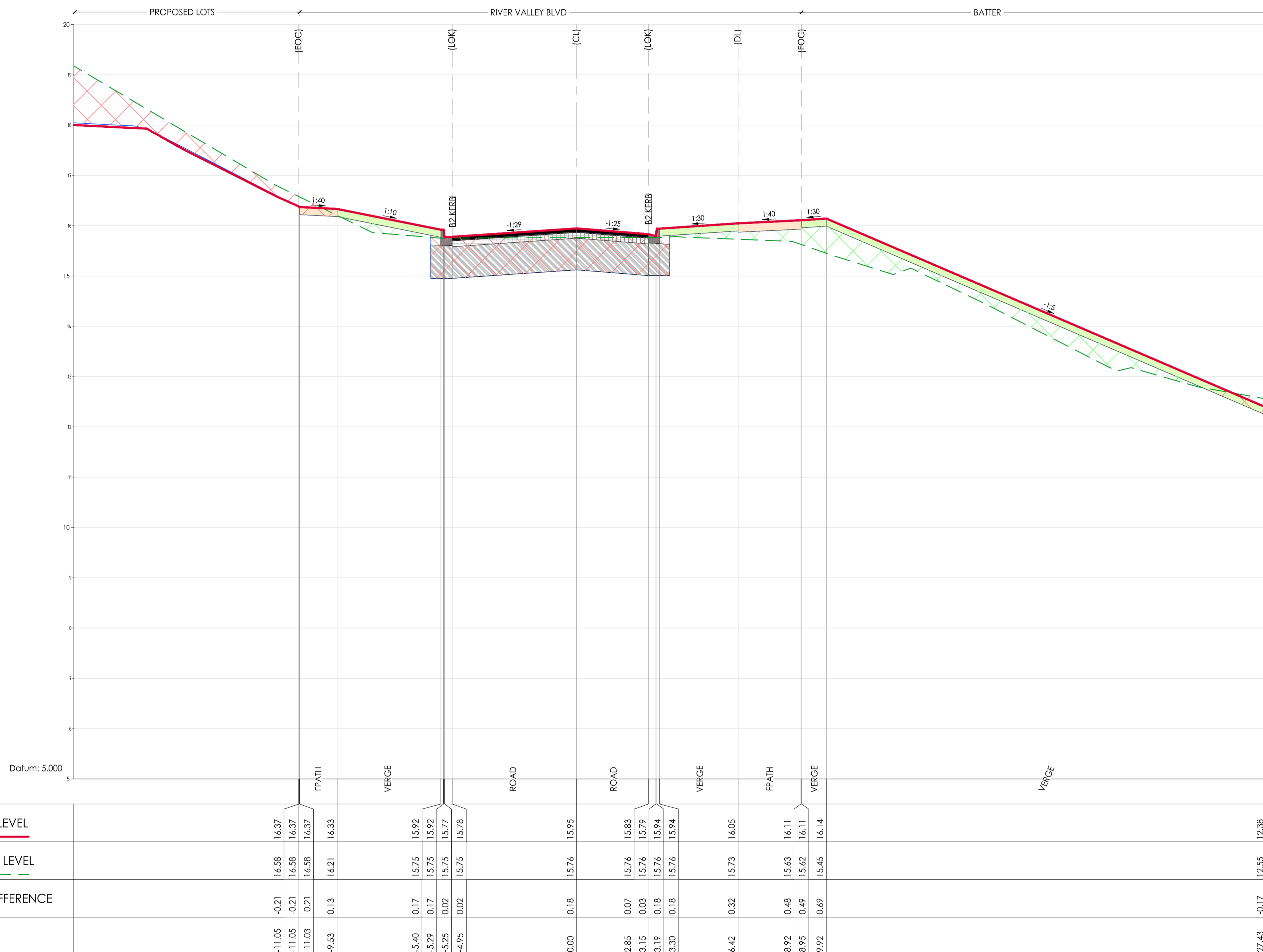
DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
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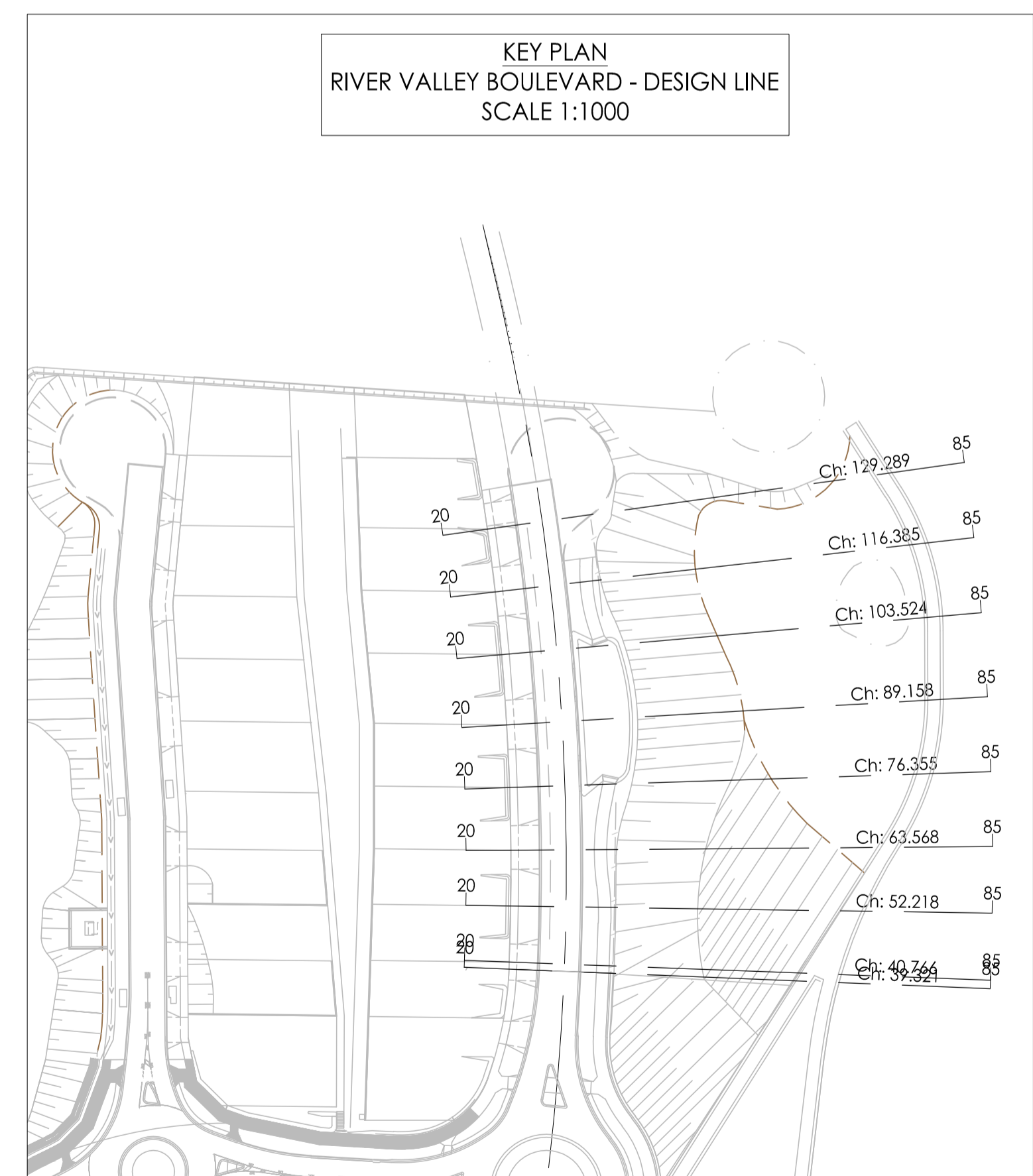
Project Number	Origin	Zone	Level	File Type	Issue	Number	Revision
15019	CJA	7C	XX	DR	C	5100	0

Drawing Title: CROSS SECTIONS - RIVER VALLEY BLVD SHEET (1 OF 9)
 Drawn By: JSS
 Checked By: AK
 Drawn Scale: 1:100H/1:50V @ A1
 Date of First Issue: 17.04.20



AL - RVB - CL - HA CHAINAGE 40.77
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)

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Vikramt 01 Oct 2021



KEY PLAN
RIVER VALLEY BOULEVARD - DESIGN LINE
SCALE 1:1000

Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JIS	AK

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

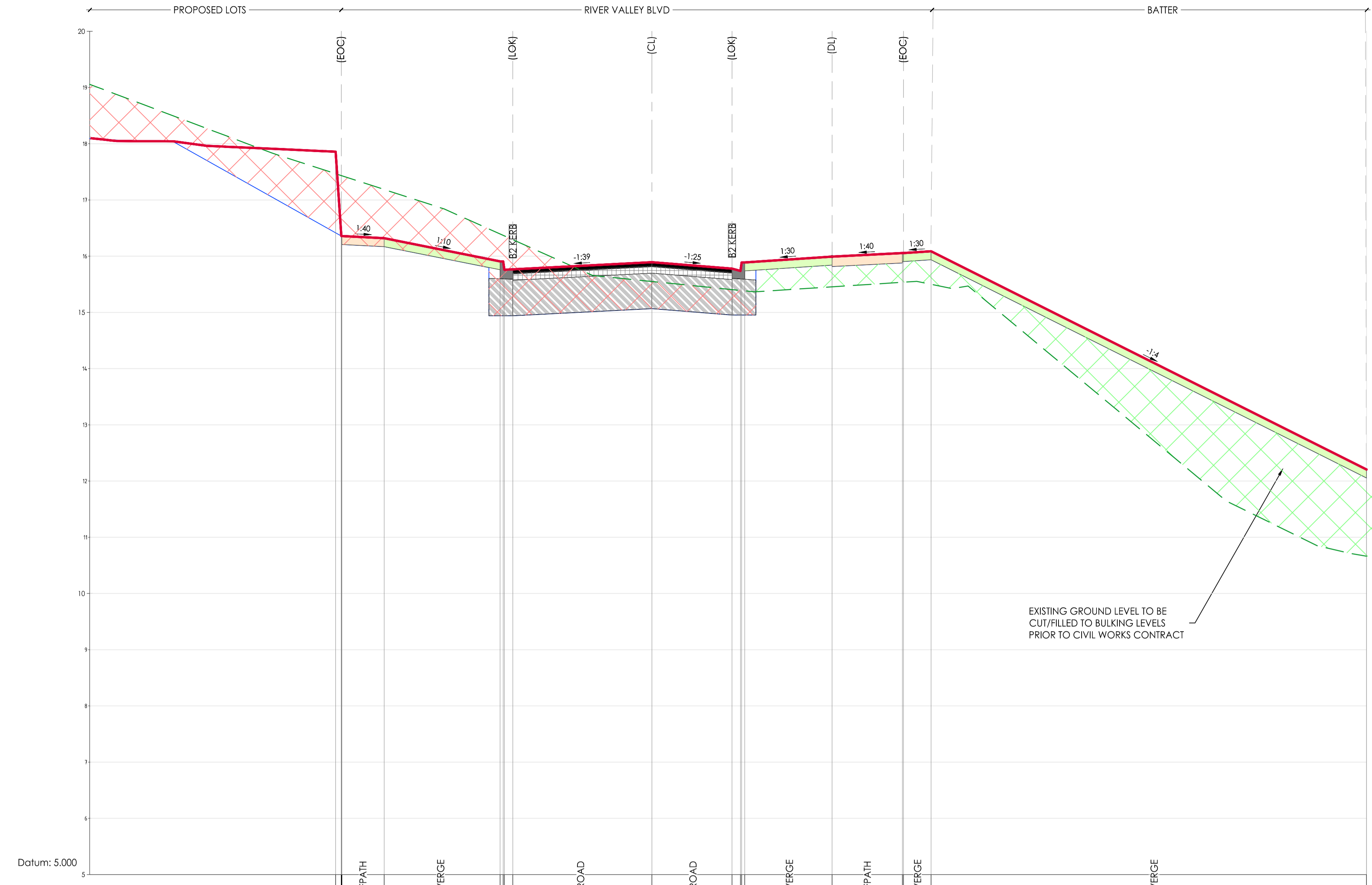
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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND

Drawing Title: CROSS SECTIONS - RIVER VALLEY BLVD
SHEET (2 OF 9)

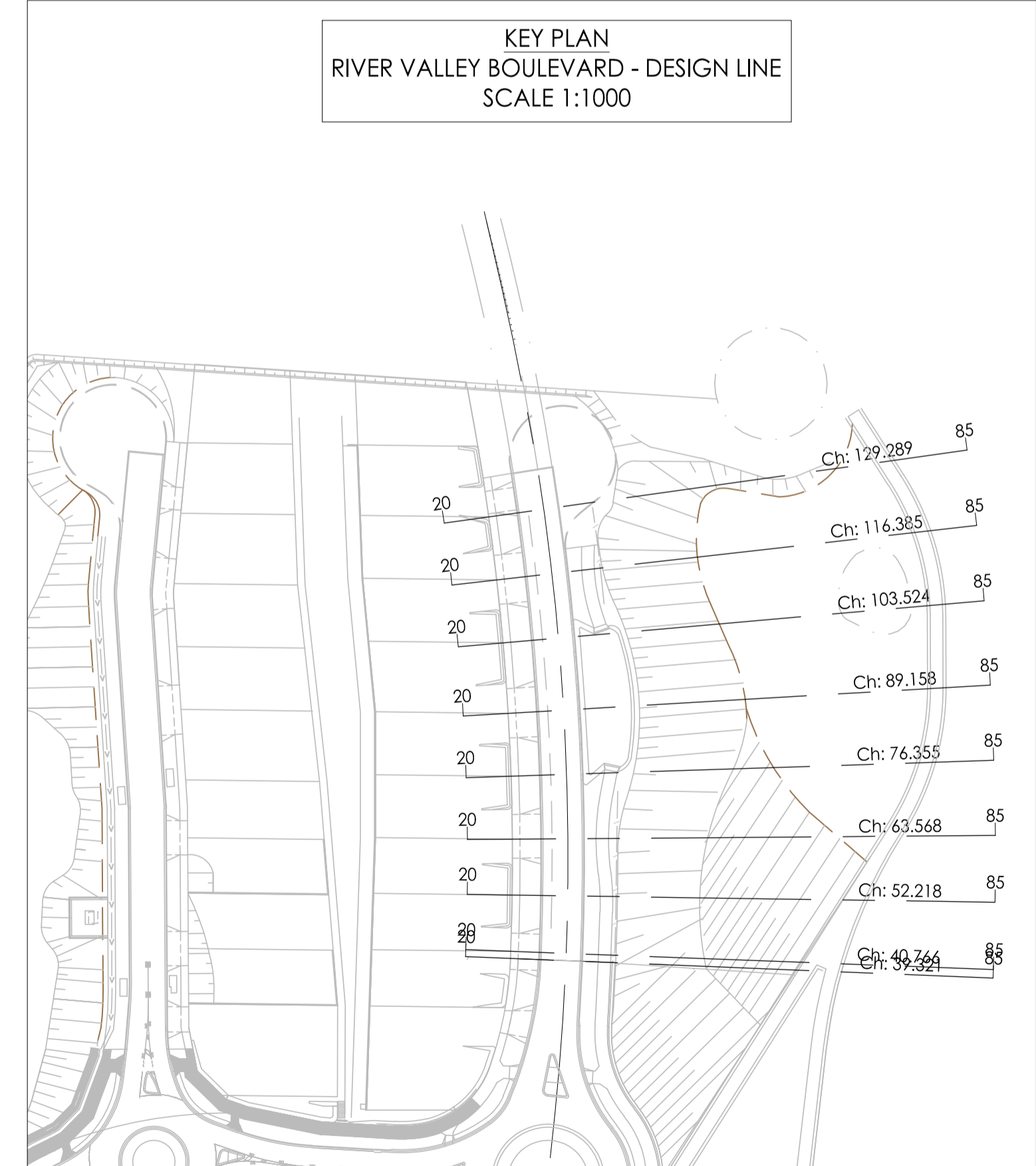
Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5101	0



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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
DESIGN LEVEL																										
EXISTING LEVEL																										
LEVEL DIFFERENCE																										
OFFSETS																										

AL - RVB - CL - HA CHAINAGE 52.22
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)



Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES EXTENT OF CUT [AS PART OF EARLY WORKS]

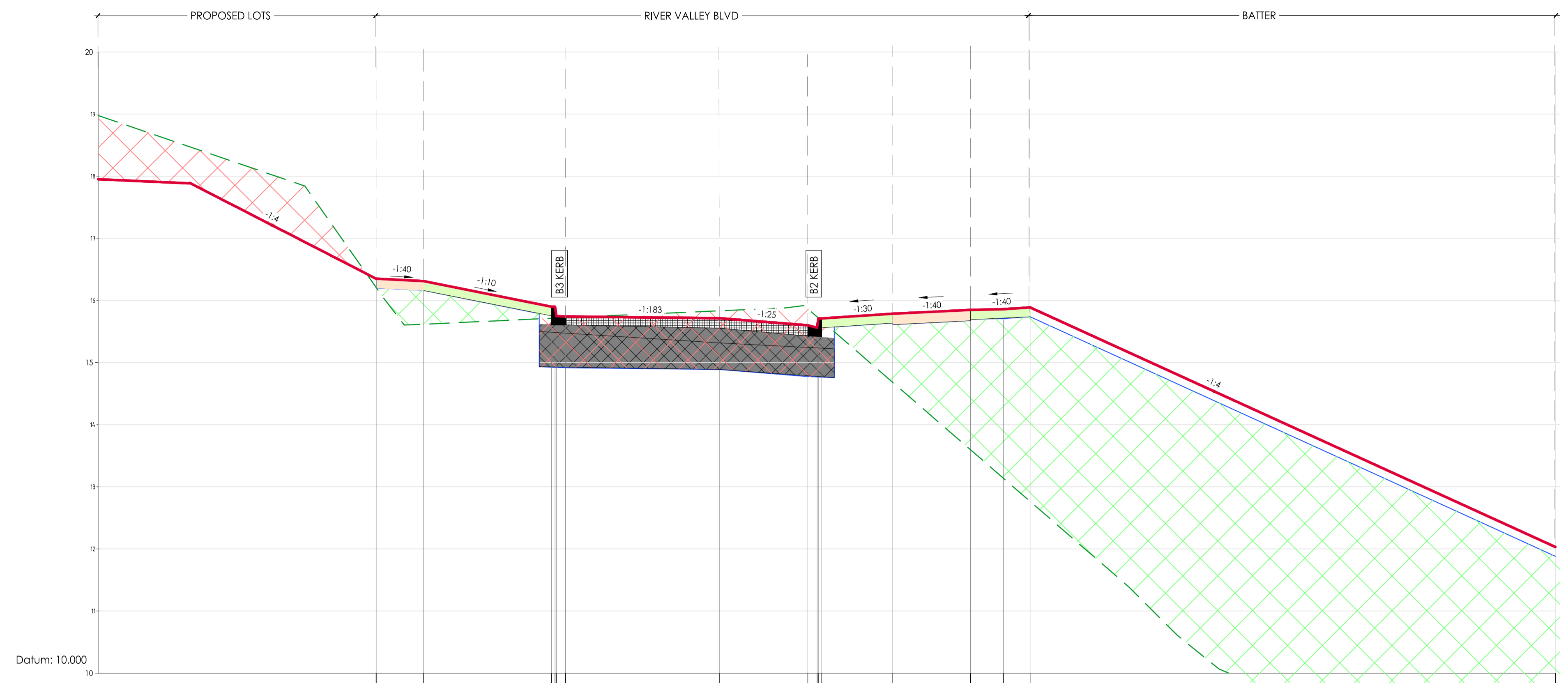
ISSUED FOR CONSTRUCTION

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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
ISSUED FOR CONSTRUCTION

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5102	0

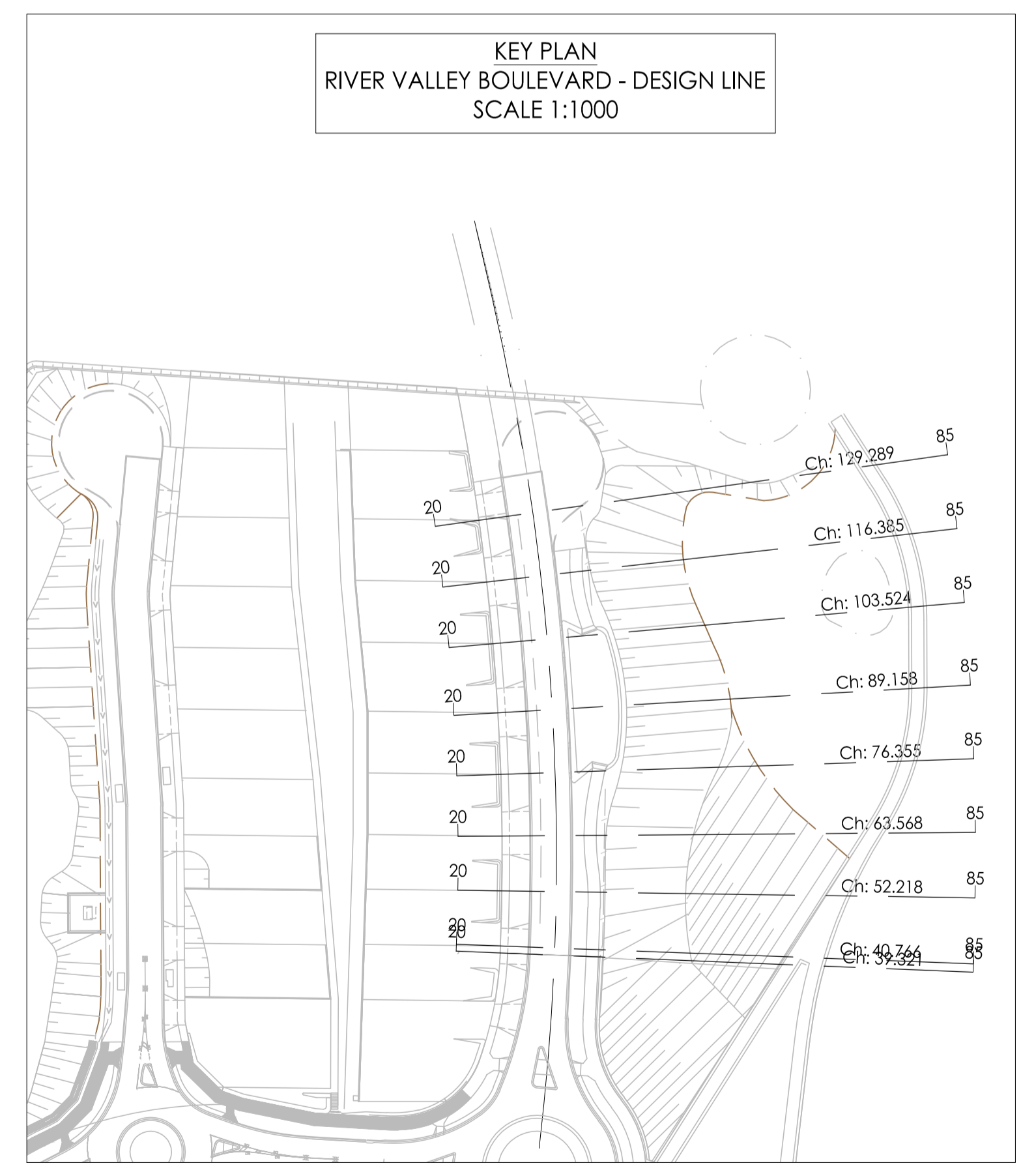
Drawing Title: CROSS SECTIONS - RIVER VALLEY BLVD SHEET (3 OF 9)
Drawn By: JSS
Checked By: AK
Drawn Scale: 1:100H 1:50V @ A1
Date of First Issue: 17.04.20



<u>DESIGN LEVEL</u>																						
<u>EXISTING LEVEL</u>																						
<u>LEVEL DIFFERENCE</u>																						
<u>OFFSETS</u>																						

AL - RVB - CL - HA CHAINAGE 63.57
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)

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0	30.09.21	ISSUED FOR CONSTRUCTION	JIS	AK
Revision	Date	Reason	Drawn	Checked

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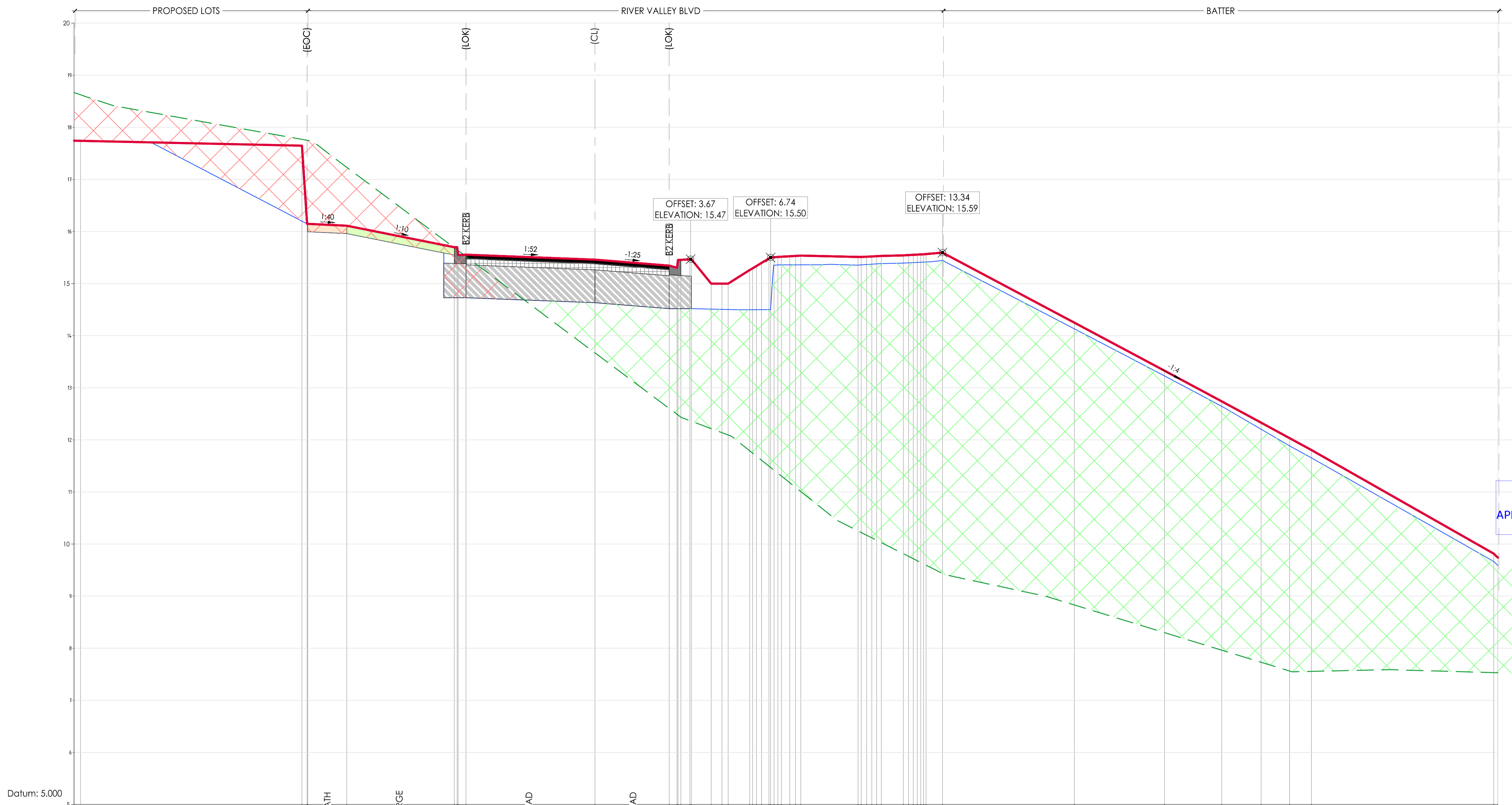
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 DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

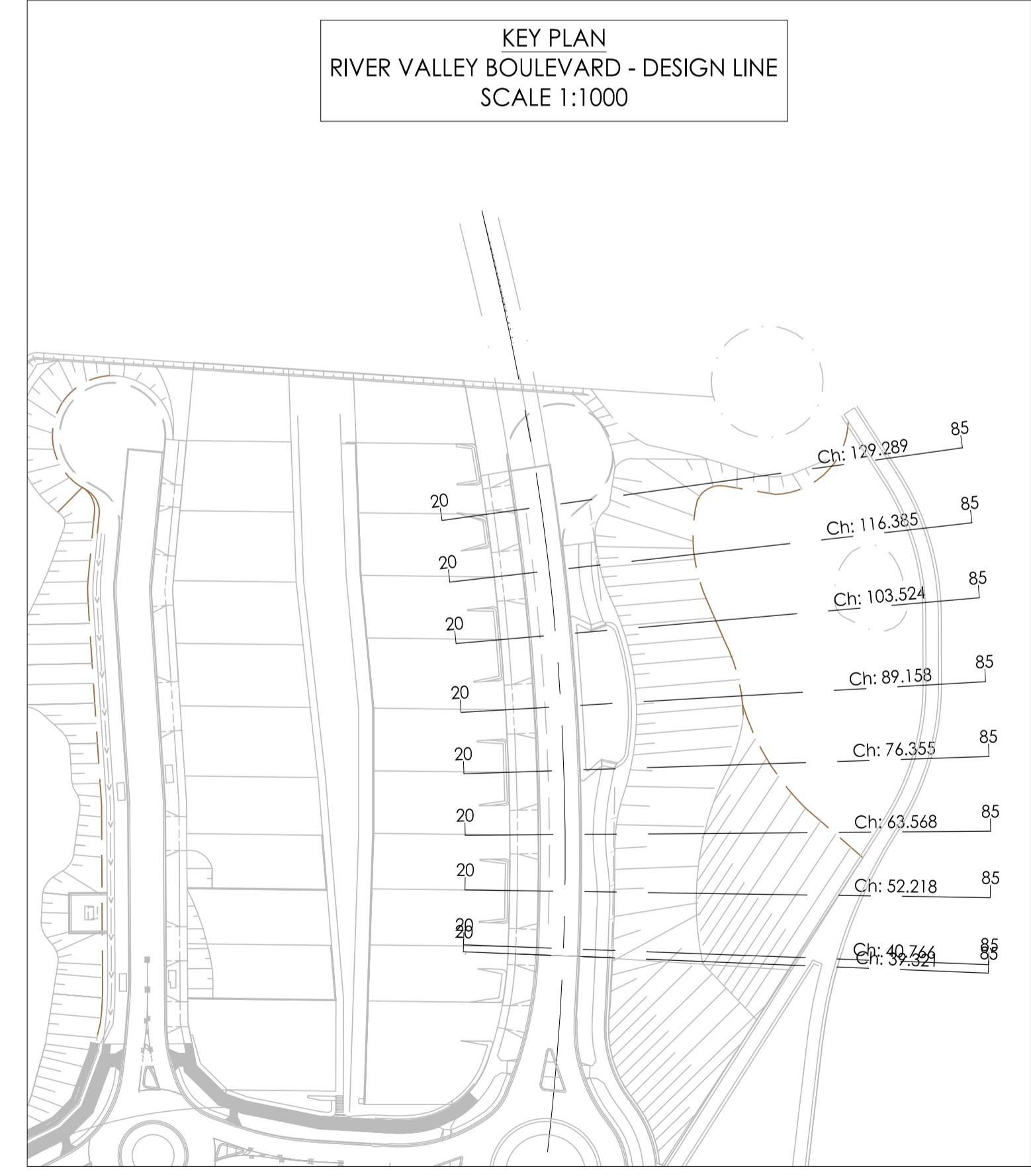
ISSUED FOR CONSTRUCTION



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Engineering Services
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Vikramt 01 Oct 2021

DESIGN LEVEL	EXISTING LEVEL	LEVEL DIFFERENCE	OFFSETS
17.65	17.77	-0.12	-11.25
16.15	17.75	-1.60	-11.05
16.15	17.75	-1.60	-11.05
16.15	17.75	-1.60	-11.03
16.11	17.23	-1.12	-9.53
15.70	15.69	0.01	-5.40
15.70	15.65	0.05	-5.29
15.55	15.63	-0.09	-5.25
15.55	15.52	0.03	-4.95
15.46	13.67	1.79	0.00
15.34	12.60	2.74	2.85
15.30	12.49	2.81	3.15
15.45	12.48	2.98	3.19
15.45	12.44	3.02	3.30
15.47	12.37	3.10	3.64
15.47	12.36	3.11	3.70
15.00	12.21	2.79	4.46
15.00	12.14	2.86	4.88
15.00	12.09	2.91	5.11
15.26	11.79	3.47	5.94
15.29	11.75	3.55	6.05
15.34	11.69	3.65	6.20
15.40	11.61	3.79	6.40
15.48	11.50	3.98	6.68
15.50	11.47	4.03	6.74
15.50	11.42	4.09	6.88
15.51	11.36	4.15	7.03
15.52	11.30	4.21	7.16
15.52	11.18	4.35	7.48
15.53	11.09	4.44	7.70
15.54	11.01	4.53	7.90
15.51	10.25	5.26	10.10
15.51	10.22	5.29	10.22
15.52	10.17	5.35	10.43
15.52	10.12	5.40	10.63
15.53	10.07	5.45	10.82
15.53	10.03	5.50	11.00
15.54	9.81	5.73	11.84
15.55	9.76	5.78	12.04
15.55	9.72	5.83	12.22
15.56	9.68	5.88	12.38
15.56	9.65	5.91	12.51
15.56	9.62	5.94	12.62
15.57	9.59	5.97	12.71
15.59	9.44	6.16	13.34
14.25	8.83	5.42	18.40
13.33	8.30	5.03	21.87
12.74	7.96	4.78	24.07
12.33	7.73	4.60	25.58
12.03	7.56	4.47	26.67
11.80	7.56	4.25	27.51
9.81	7.53	2.28	34.51
9.74	7.53	2.21	34.66

AL - RVB - CL - HA CHAINAGE 76.36
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)



Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

Note for Contractors
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DENOTES ENGINEERED FILL TO T+1 TYPE 2 SPECIFICATION (1000/780.1000.S1.REV4) AND PREPARED UNDER LEVEL 1 SUPERVISION. (AS PART OF EARLY WORKS).

DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

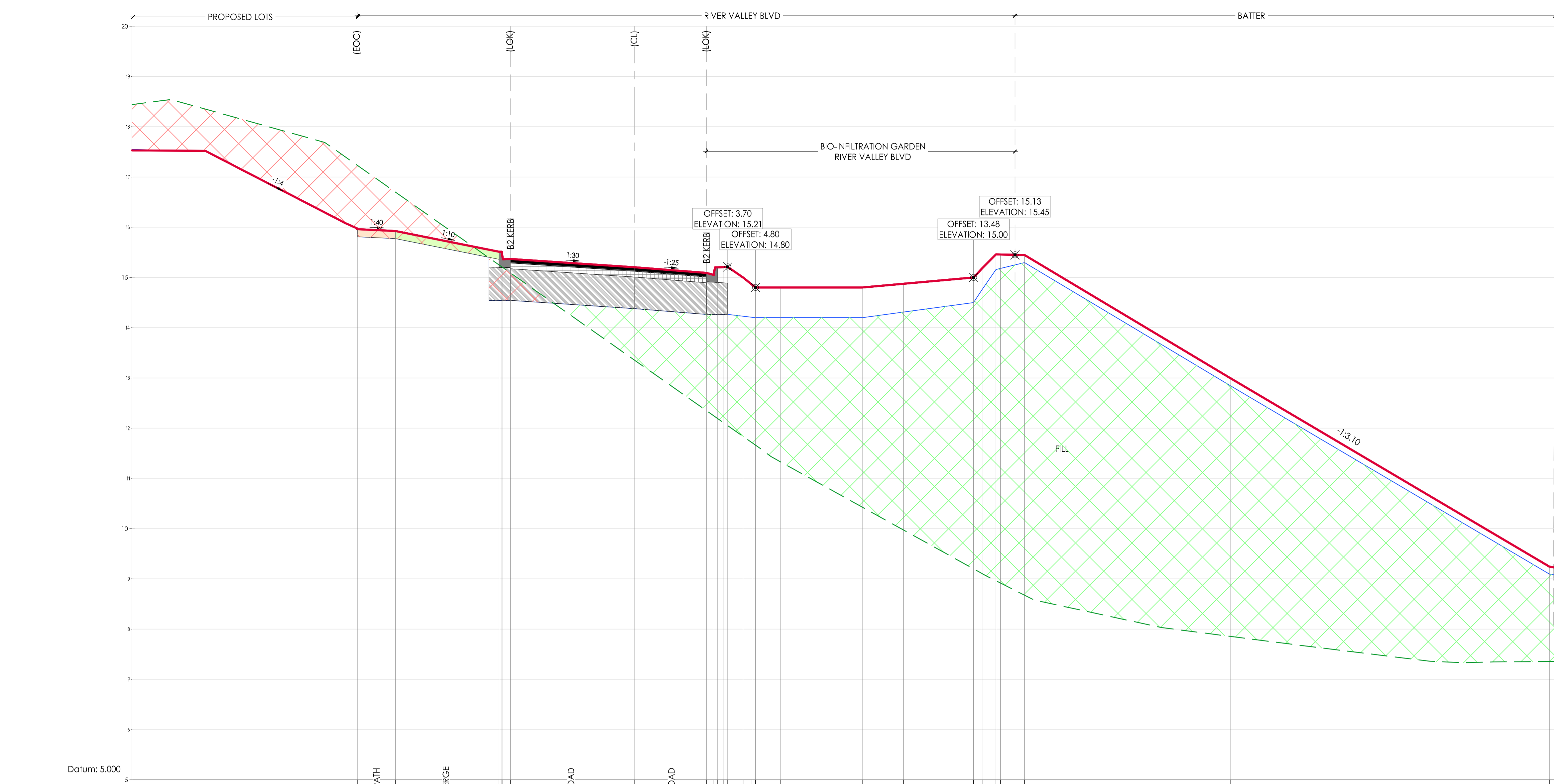
ISSUED FOR CONSTRUCTION

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
ISSUED FOR CONSTRUCTION

Project Number	Origin	Zone	Level	File Type	Issue	Number	Revision
15019	CJA	7C	XX	DR	C	5104	0

Drawing Title: CROSS SECTIONS - RIVER VALLEY BLVD SHEET (5 OF 9)
Drawn By: JSS
Checked By: JSS
Date of First Issue: 09.04.21

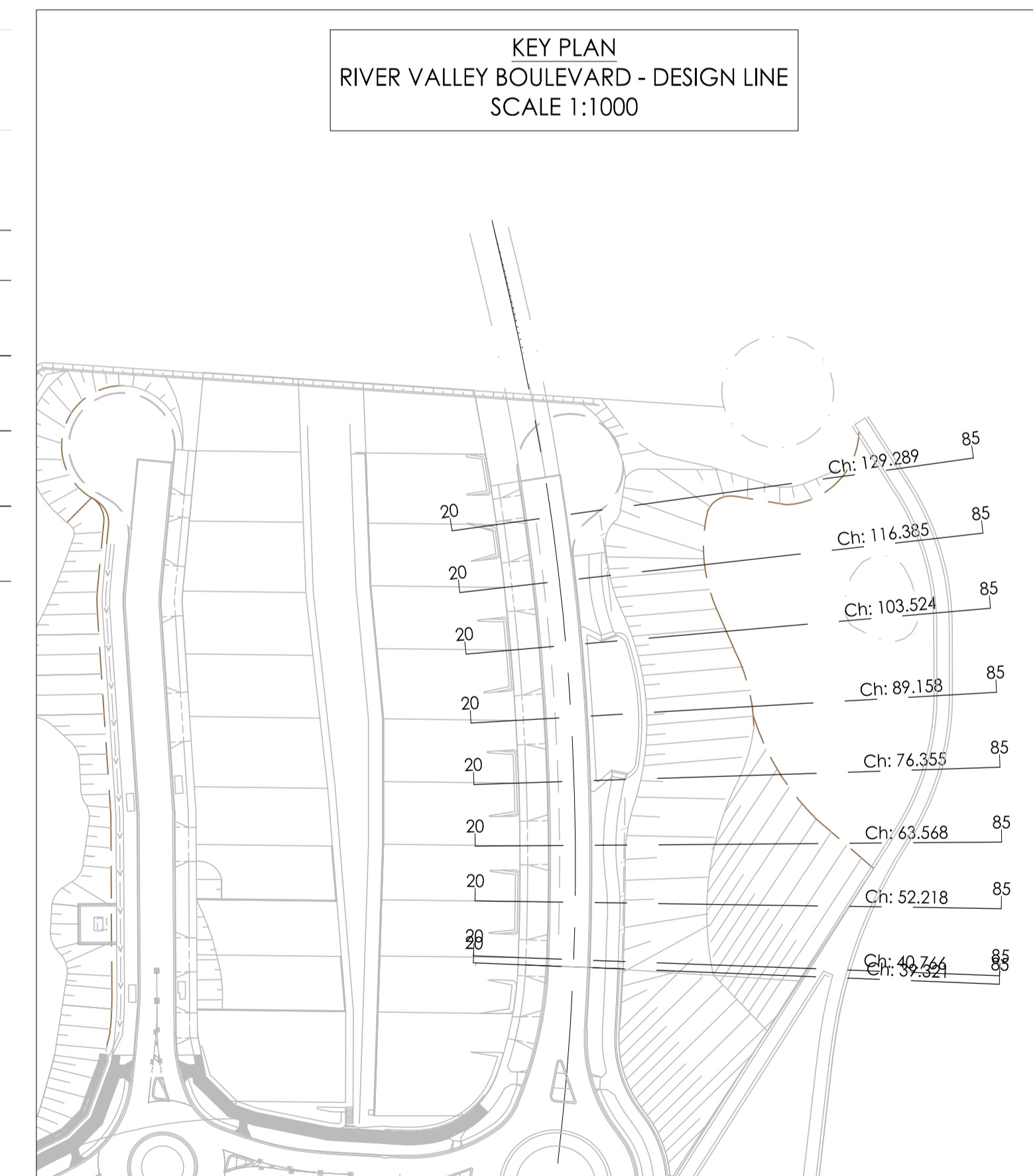
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 Vikramt 01 Oct 2021

DESIGN LEVEL	EXISTING LEVEL	LEVEL DIFFERENCE	OFFSETS
15.96	17.24	-1.27	-11.05
15.96	17.24	-1.27	-11.05
15.96	17.23	-1.27	-11.03
15.92	16.70	-0.78	-9.53
15.51	15.25	0.26	-5.40
15.51	15.21	0.30	-5.29
15.36	15.20	0.16	-5.25
15.37	15.09	0.28	-4.95
15.20	13.35	1.85	0.00
15.09	12.35	2.74	2.85
15.05	12.24	2.81	3.15
15.20	12.23	2.97	3.19
15.20	12.19	3.01	3.30
15.21	12.11	3.09	3.52
15.21	12.05	3.16	3.70
15.00	11.84	3.16	4.31
14.86	11.71	3.14	4.67
14.80	11.66	3.14	4.80
14.80	11.33	3.47	5.81
14.80	10.43	4.37	9.05
14.87	9.97	4.90	10.69
15.00	9.20	5.80	13.48
15.18	9.11	6.08	13.83
15.45	8.96	6.50	14.38
15.46	8.92	6.54	14.55
15.45	8.67	6.77	15.51
13.00	7.86	5.14	23.70
9.25	7.36	1.89	36.40

AL - RVB - CL - HA CHAINAGE 89.16
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)



Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

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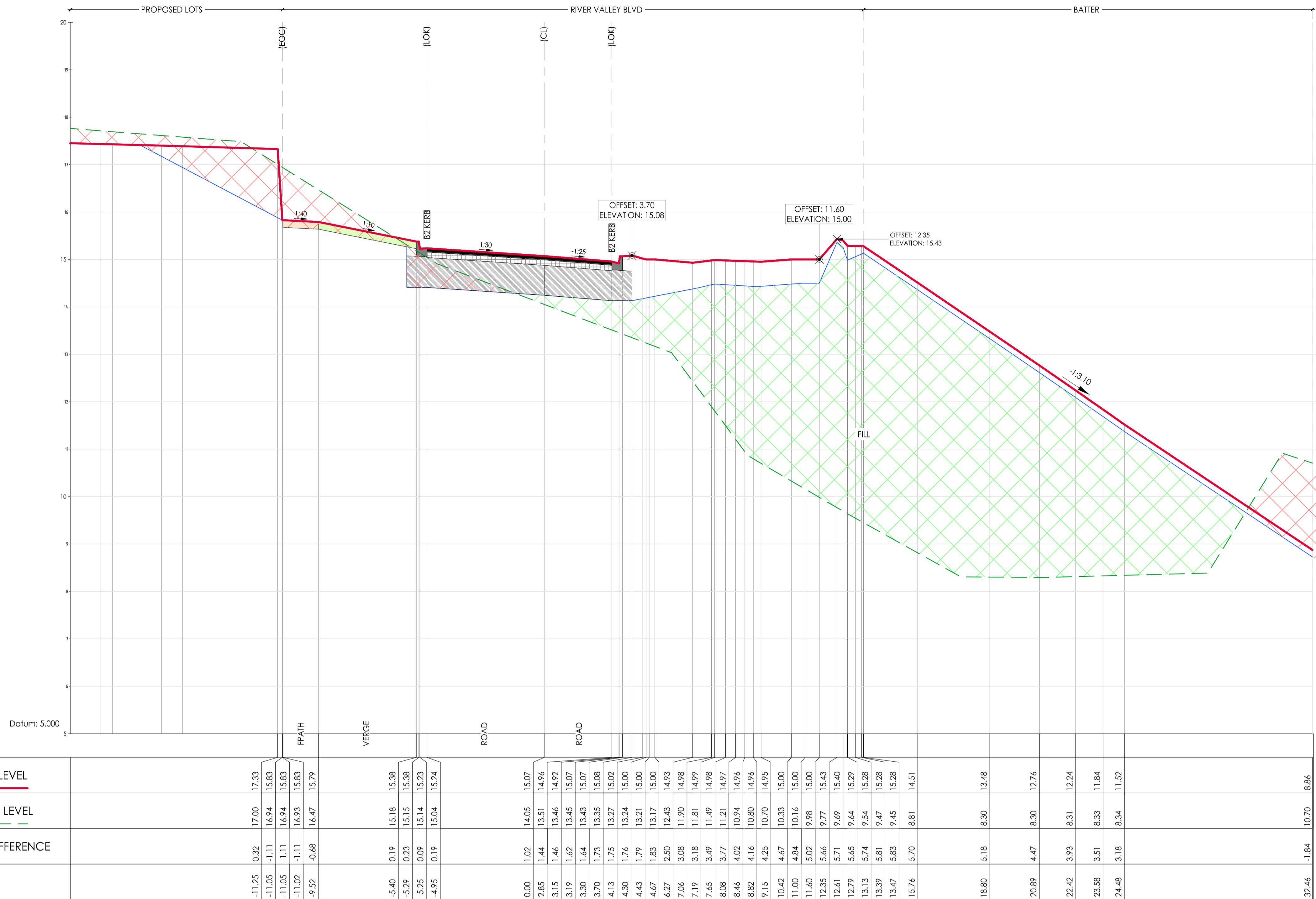
Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND

Drawn By: JSS | Checked By: AK | Drawn Scale: 1:100 | Date of Issue: 09.04.21

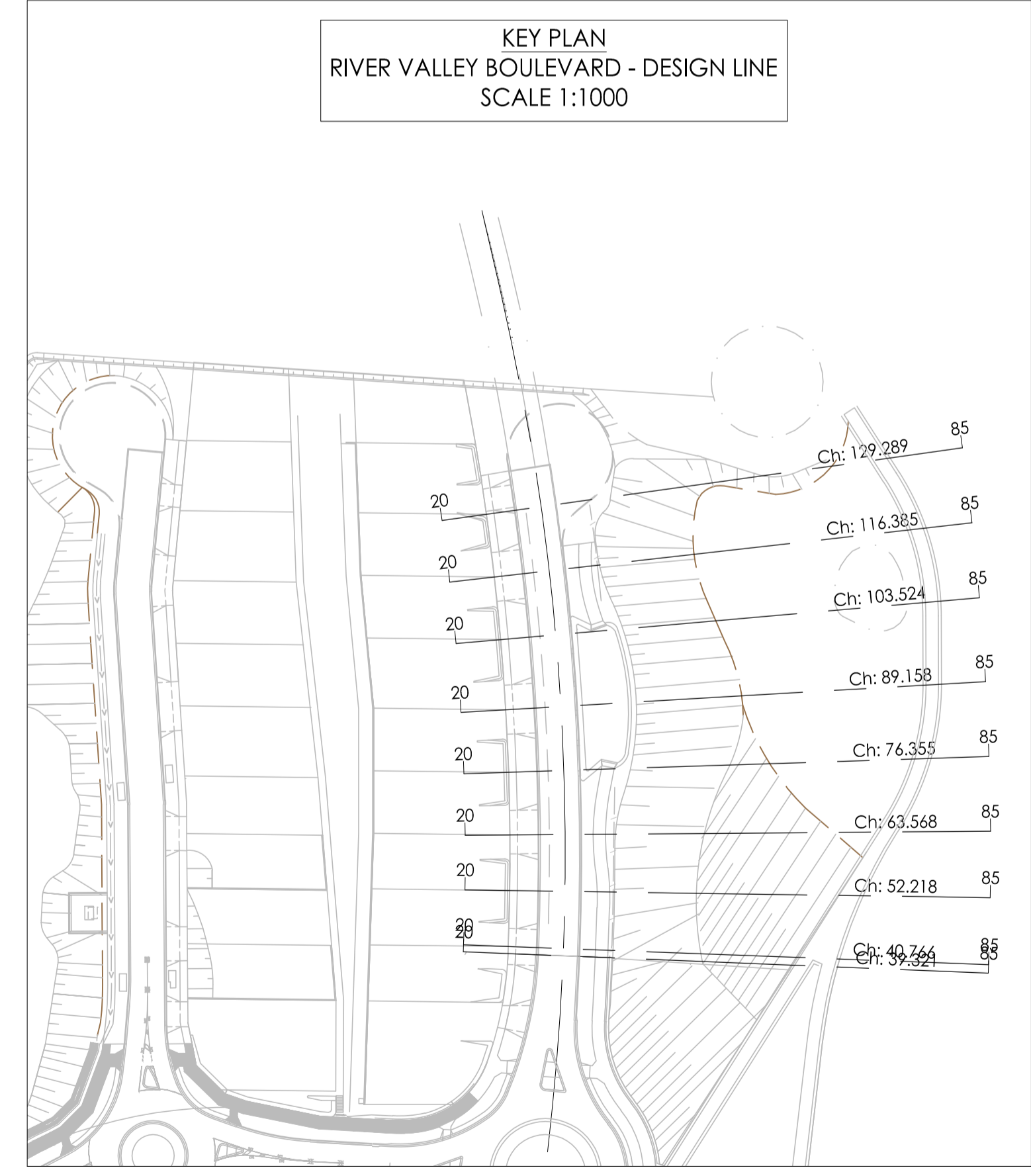
ISSUED FOR CONSTRUCTION

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5105	0

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Vikramt 01 Oct 2021



AL - RVB - CL - HA CHAINAGE 103.52
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)

Note for Contractors
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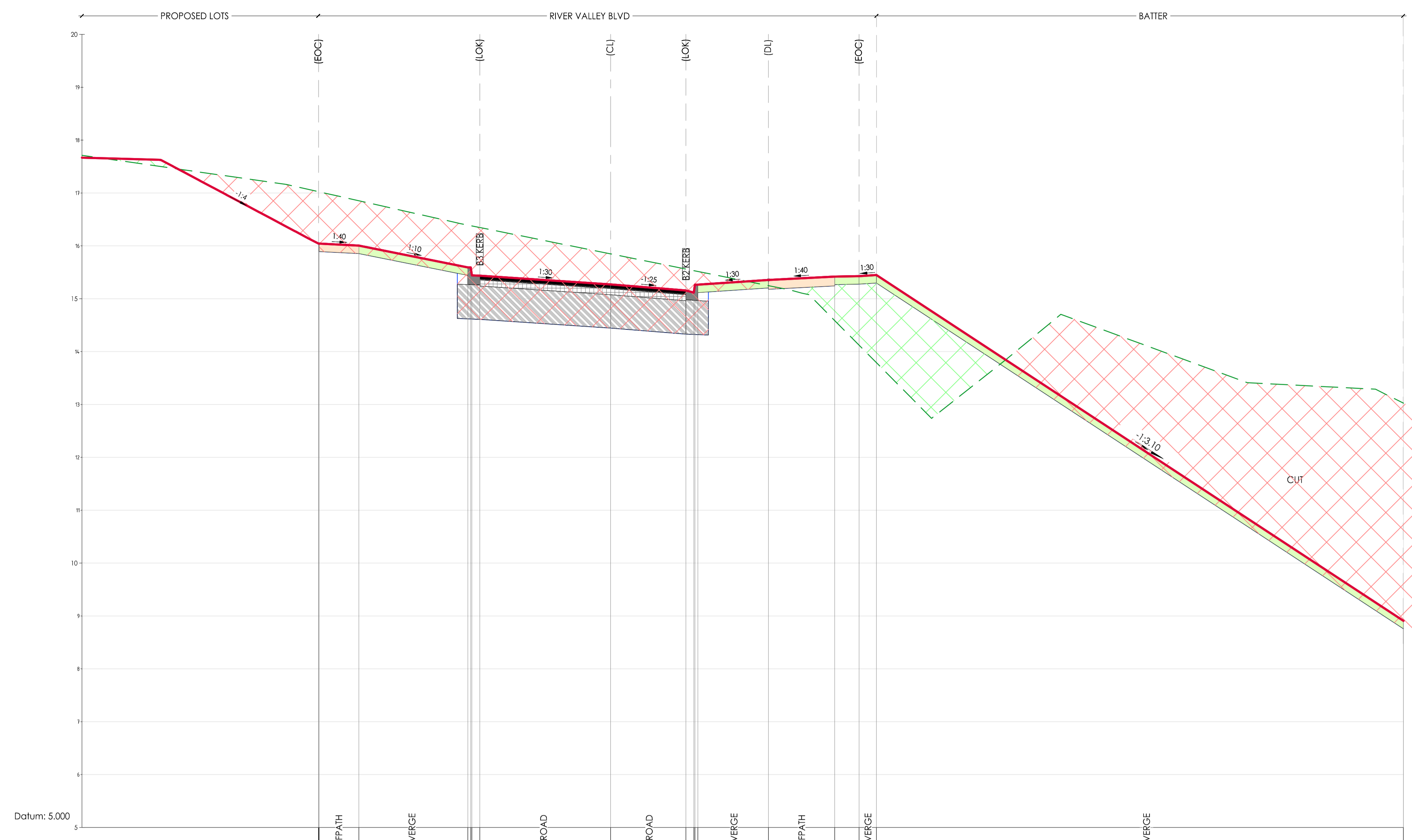
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■ DENOTES ENGINEERED FILL TO T+1 TYPE 2 SPECIFICATION (1000/780.1000.S1.REV4) AND PREPARED UNDER LEVEL 1 SUPERVISION. (AS PART OF EARLY WORKS)

■ DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

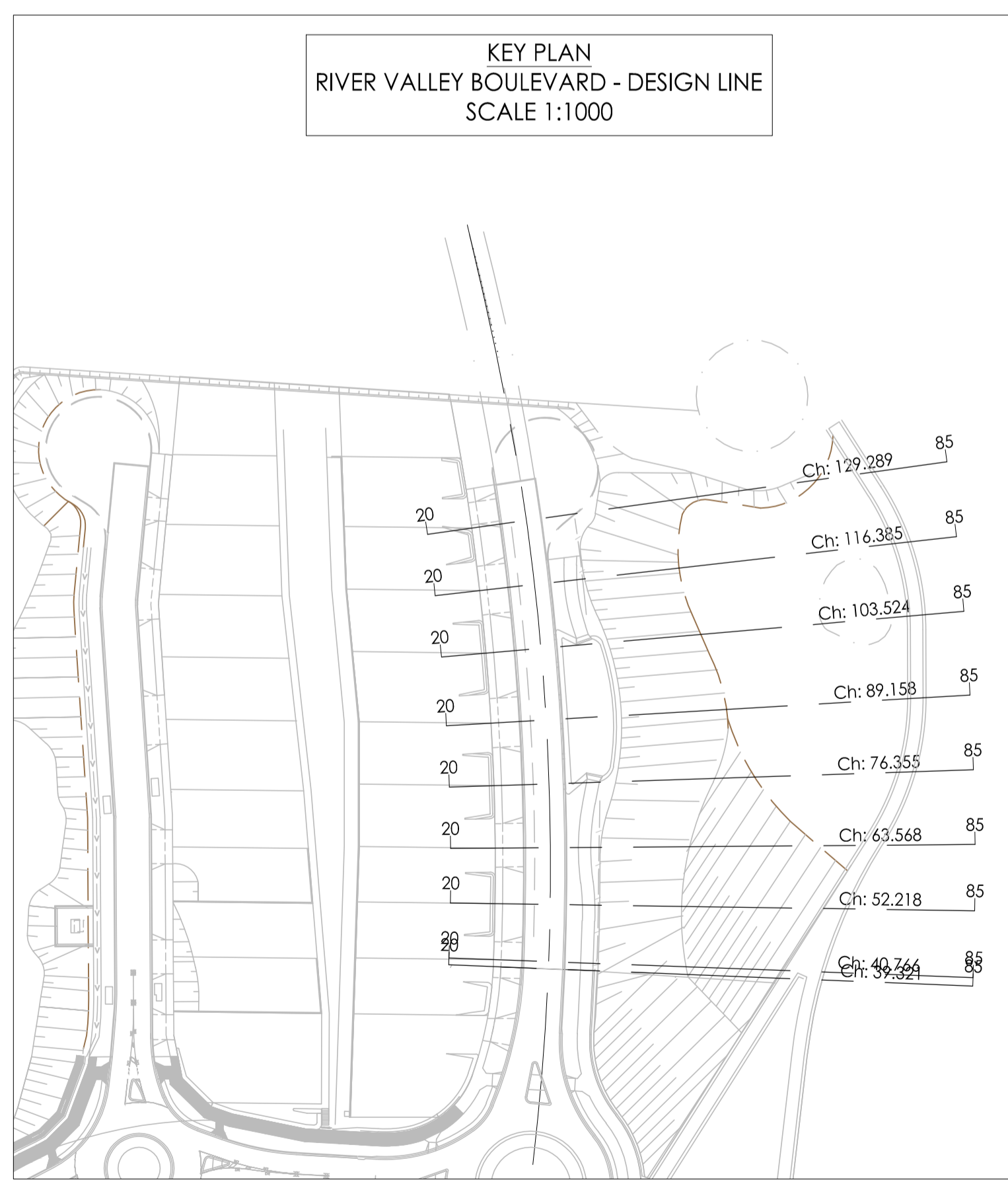
ISSUED FOR CONSTRUCTION



BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

	116.39	117.03	117.02	117.00	116.38	116.35	115.52	115.42	115.43	115.45	130.00								
DESIGN LEVEL		16.04	16.04	16.04	15.59	15.44	15.27	15.36	15.42	15.43	8.91								
EXISTING LEVEL		17.03	17.03	17.02	16.39	16.38	15.12	15.36	14.59	14.12	13.03								
LEVEL DIFFERENCE		-0.98	-0.98	-0.98	-0.80	-0.94	-0.25	0.11	0.83	1.31	-4.12								
OFFSETS		-11.05	-11.05	-11.02	-9.92	-5.40	-5.29	-5.25	-4.95	0.00	2.85	3.15	3.19	3.30	5.97	8.48	9.40	10.06	30.00

AL - RVB - CL - HA CHAINAGE 116.39
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)



Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

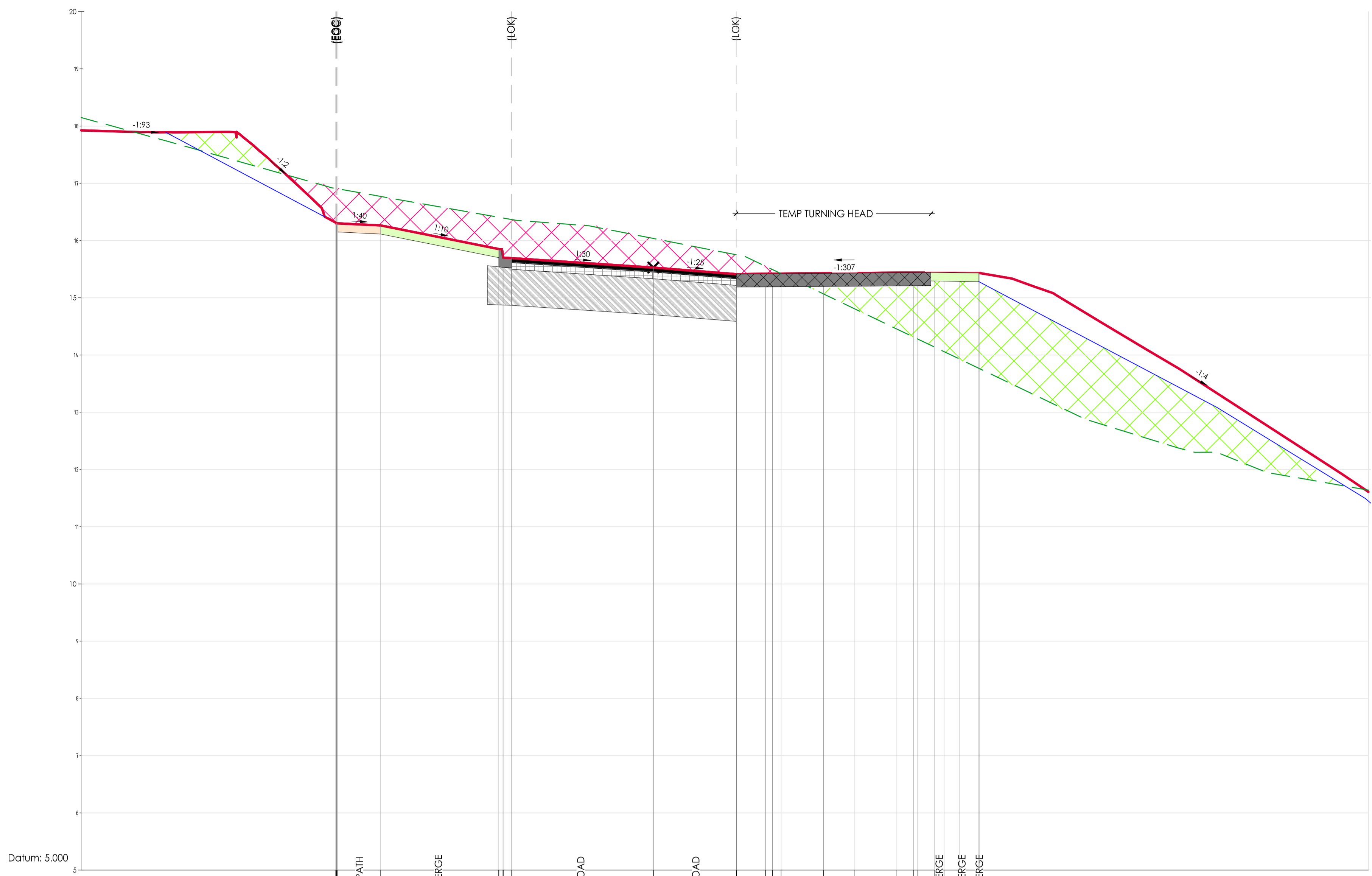
URBAN DESIGN · SCIENCE · LANDSCAPE · CIVIL · MODELLING · HYDRAULICS

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
ISSUED FOR CONSTRUCTION

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5017	0

Drawing Title: CROSS SECTIONS - RIVER VALLEY BLVD SHEET (8 OF 9)
 Drawn By: JSS
 Checked By: AK
 Drawn Scale: 1:100/1:50/1:100
 Date of First Issue: 09.04.21

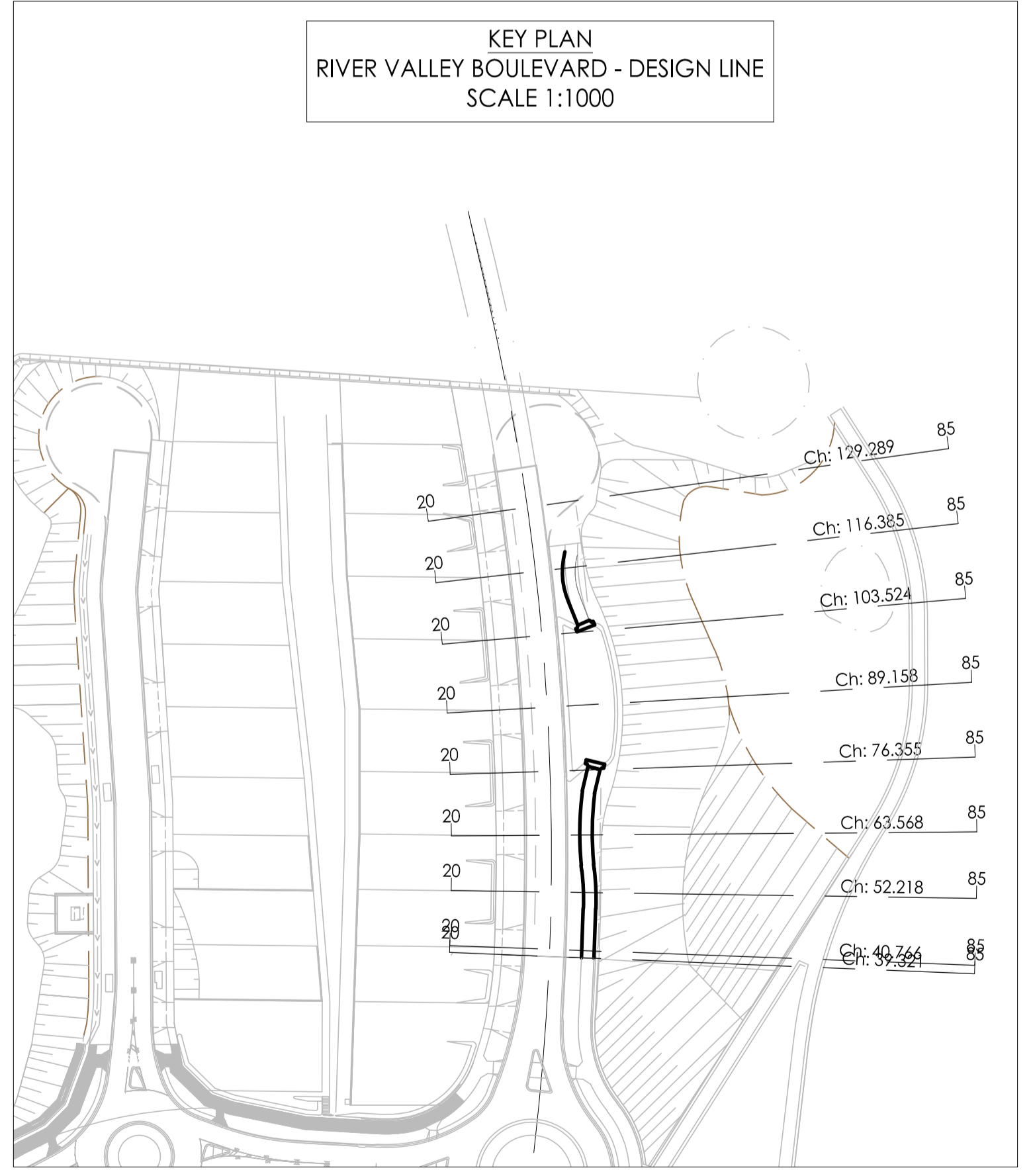
www.cjarms.com



DESIGN LEVEL	16.30	16.30	16.30	16.30	16.26	16.26	15.85	15.85	15.41	15.41	15.42	15.42	15.43	15.43	15.44	15.44	15.44	15.44	15.44	15.43	15.43
EXISTING LEVEL	16.91	16.91	16.91	16.91	16.90	16.77	16.41	16.41	15.75	15.75	15.42	15.42	15.07	15.43	14.45	14.45	14.44	14.44	14.80	15.43	15.43
LEVEL DIFFERENCE	-0.61	-0.61	-0.61	-0.61	-0.60	-0.51	-0.56	-0.56	-0.34	-0.34	-0.13	-0.07	0.36	0.63	0.98	0.98	1.12	1.16	1.16	1.42	1.44
OFFSETS	-11.10	-11.07	-11.07	-11.02	-11.02	-9.53	-5.40	-5.40	2.90	2.90	3.92	4.17	5.95	7.05	8.52	9.09	9.25	9.82	10.16	10.69	11.38

AL - RVB - CL - HA CHAINAGE 129.29
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)

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 Vikramt 01 Oct 2021



Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES ENGINEERED FILL TO T+1 TYPE 2 SPECIFICATION (1000/780.1000.S1.REV4) AND PREPARED UNDER LEVEL 1 SUPERVISION. (AS PART OF EARLY WORKS).

DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

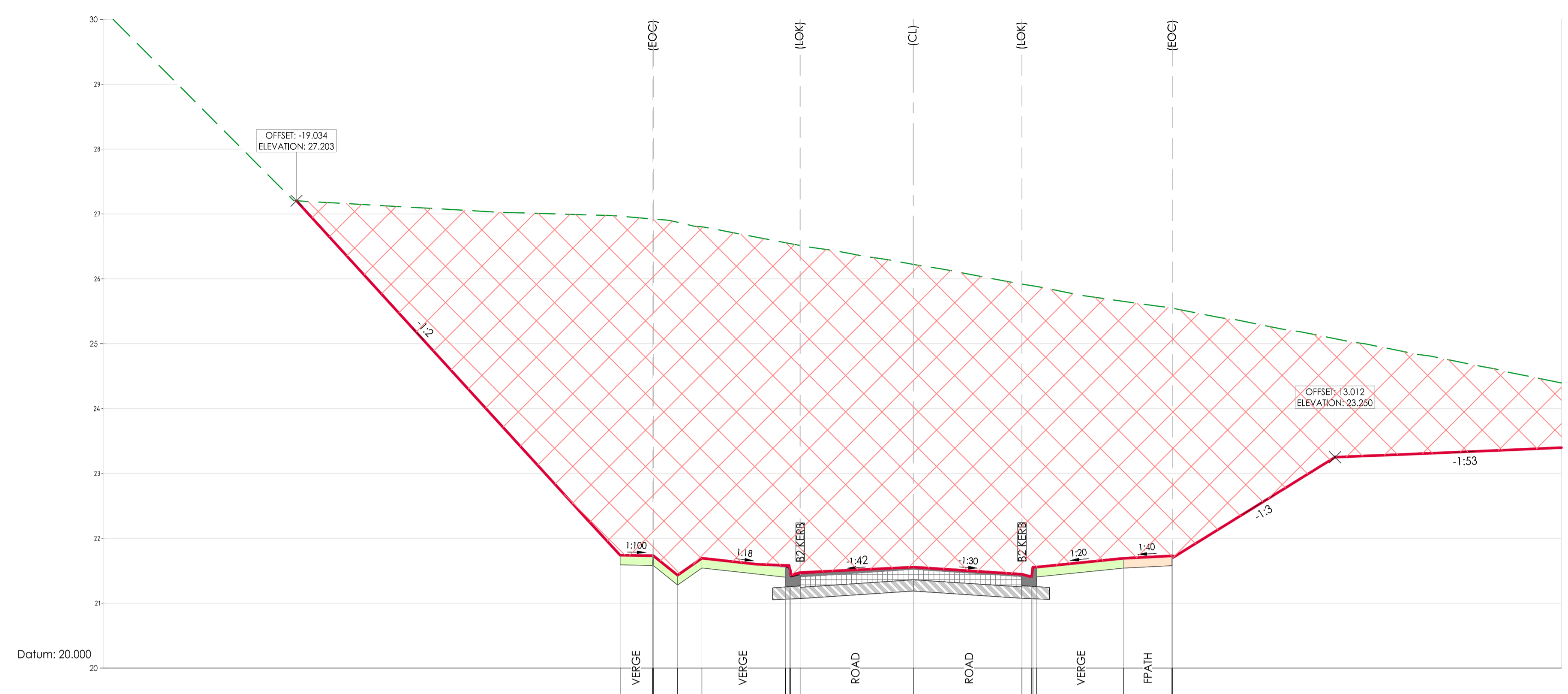
ISSUED FOR CONSTRUCTION

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Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	XX	XX	DR	C	5108	0

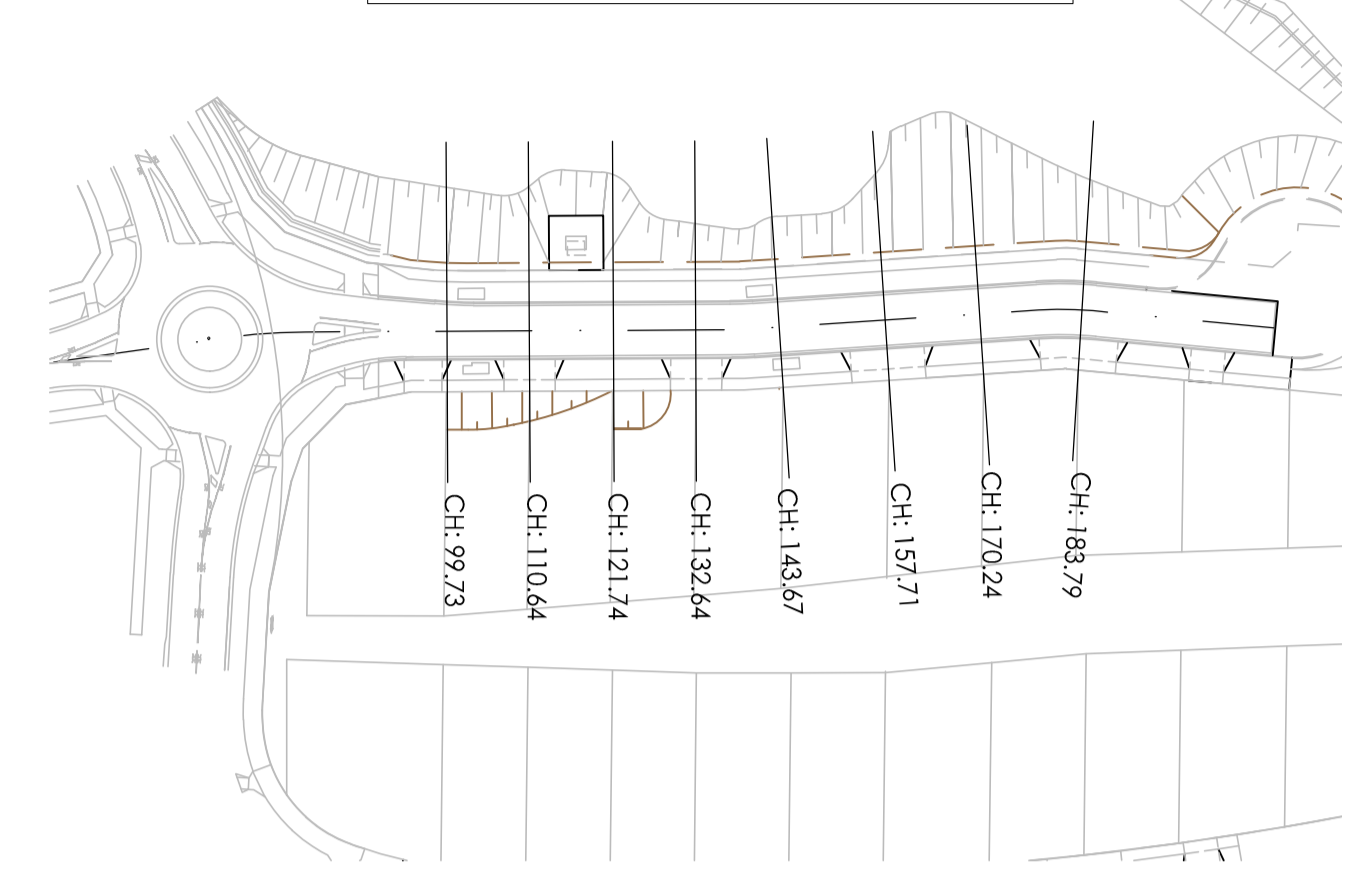
Drawn By: JSS
 Checked By: AK
 Drawn Scale: 1:1000
 Date of First Issue: 02.06.21



DESIGN LEVEL																
EXISTING LEVEL																
LEVEL DIFFERENCE																
OFFSETS																

AL - PDRIVE - CL - HA CHAINAGE 99.73
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)

KEY PLAN
 PERENNIAL DRIVE - DESIGN LINE
 SCALE 1:1000



BRIMBANK CITY COUNCIL
 Engineering Services
 APPROVED PLANS AND SPECIFICATIONS
 Vikramt 01 Oct 2021

Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

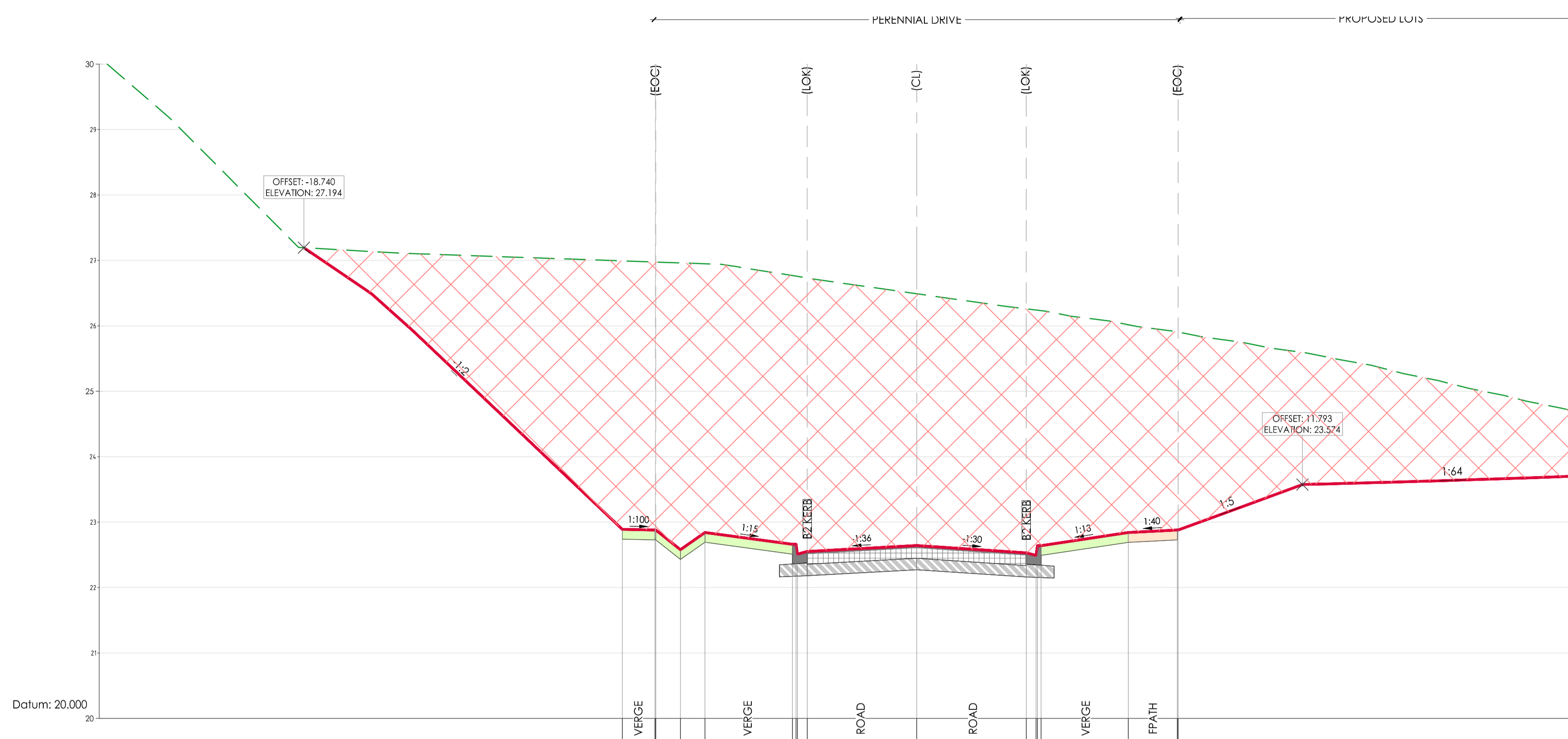
ISSUED FOR CONSTRUCTION

Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5150	0

Drawing Title: CROSS SECTIONS - PERENNIAL DRIVE
 SHEET (1 OF 8)
 Drawn By: JSS
 Checked By: AK
 Drawn Scale: 1:100H/1:50V @ A1
 Date of First Issue: 17.04.20

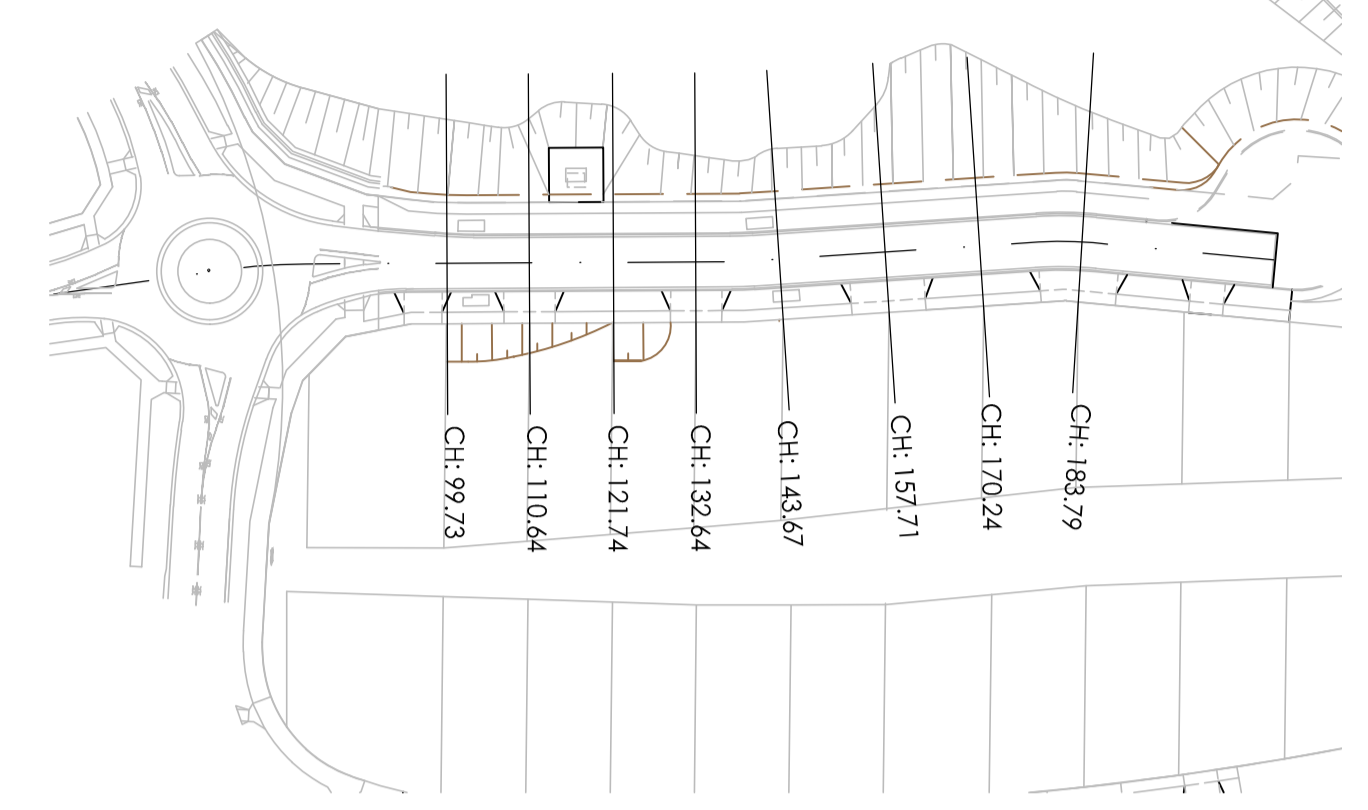
www.cjarms.com



DESIGN LEVEL	EXISTING LEVEL	LEVEL DIFFERENCE	OFFSETS
22.89	26.99	-4.10	-9.00
22.88	26.98	-4.10	-8.00
22.88	26.98	-4.10	-7.98
22.58	26.96	-4.38	-7.23
22.84	26.95	-4.11	-6.48
22.66	26.77	-4.11	-3.80
22.66	26.76	-4.10	-3.69
22.51	26.76	-4.25	-3.65
22.55	26.73	-4.18	-3.35
22.64	26.49	-3.85	0.00
22.53	26.26	-3.73	3.35
22.49	26.24	-3.75	3.65
22.64	26.24	-3.60	3.69
22.64	26.23	-3.59	3.80
22.84	26.02	-3.18	6.47
22.88	25.91	-3.03	7.97
22.88	25.91	-3.03	7.99

AL - PDRIVE - CL - HA CHAINAGE 110.64
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)

KEY PLAN
 PERENNIAL DRIVE - DESIGN LINE
 SCALE 1:1000



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 Vikramt 01 Oct 2021

Revision	Date	By	Check	Description
0	03.09.2021	JSS	AK	ISSUED FOR CONSTRUCTION

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

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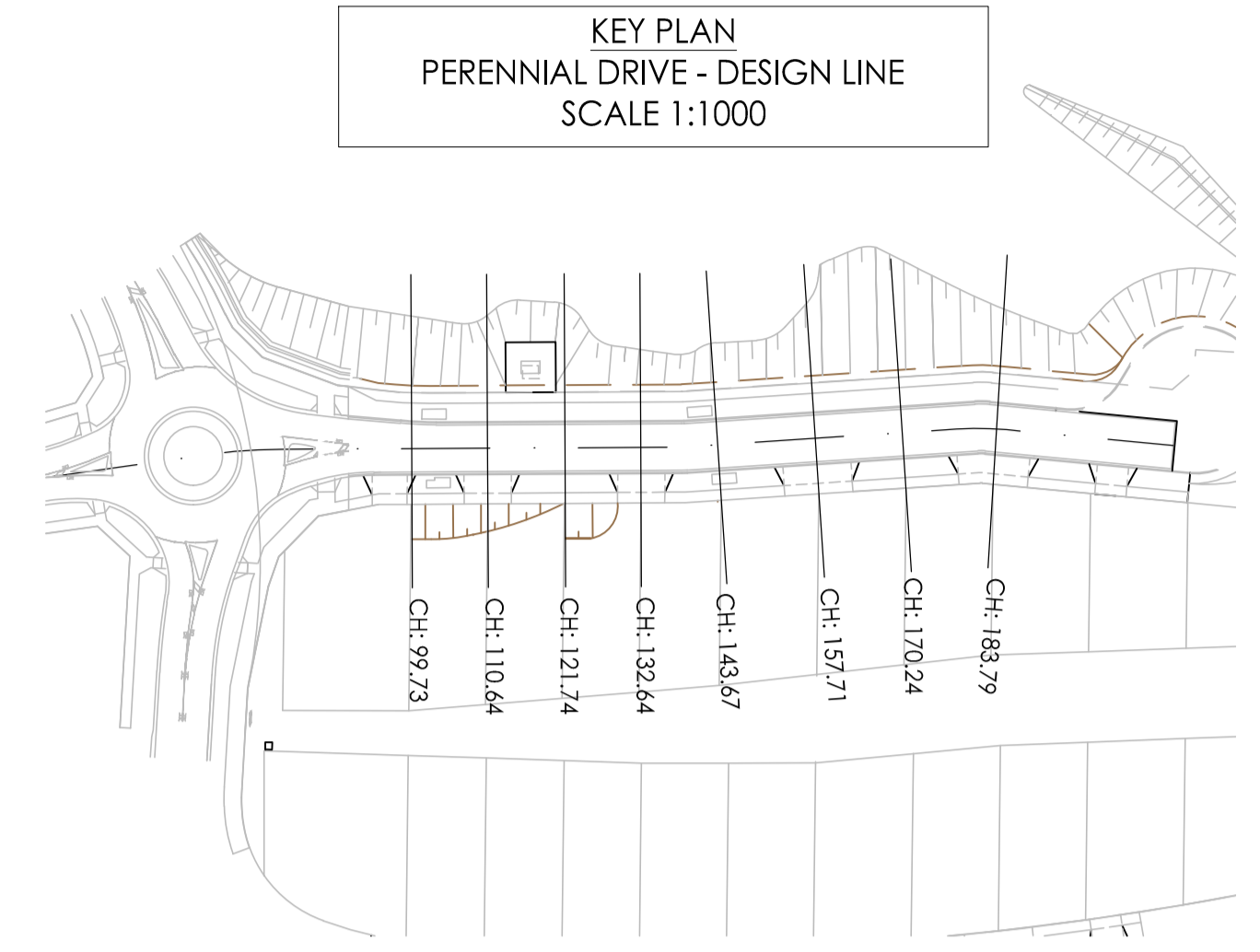
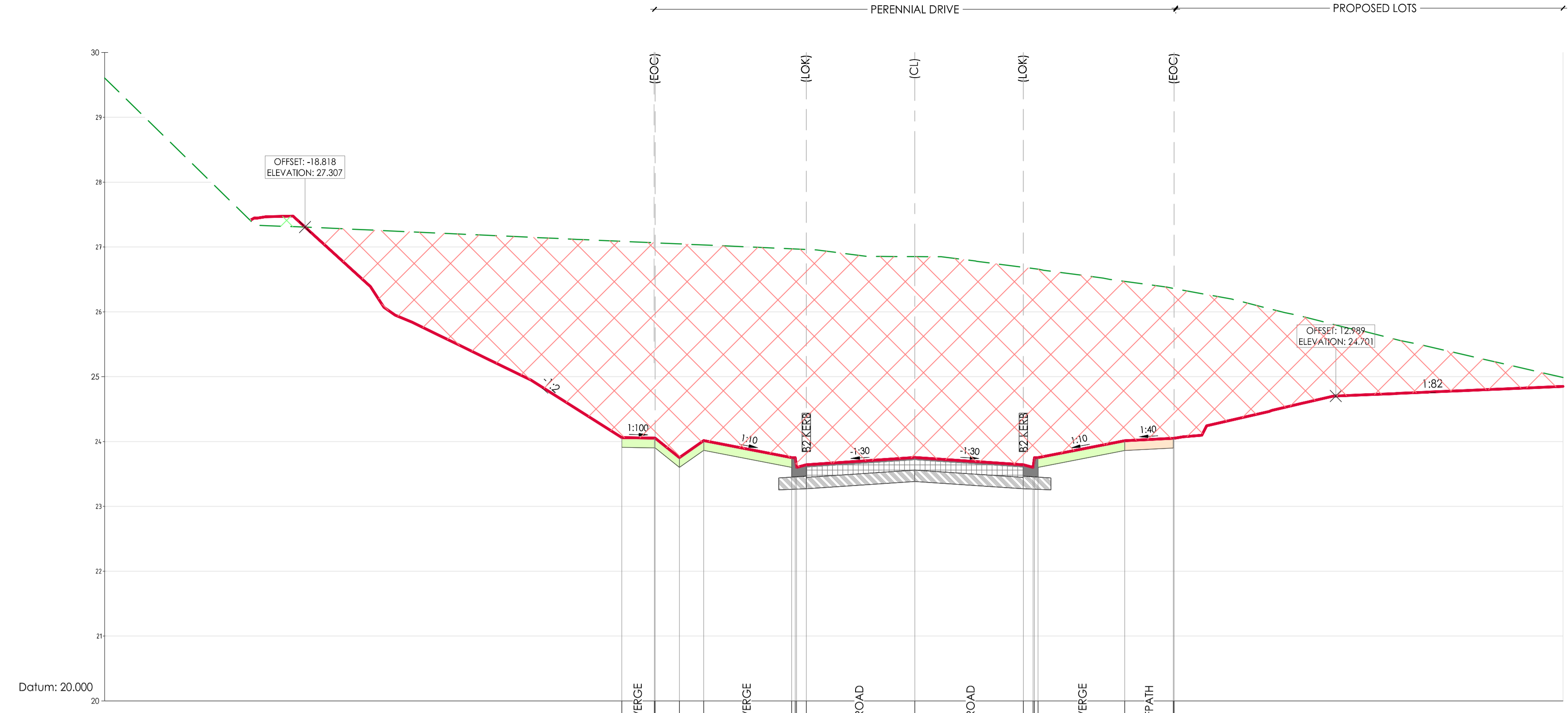
CIVIL SITeworks

Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for construction

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5151	0

Drawing Title: CROSS SECTIONS - PERENNIAL DRIVE
 SHEET (2 OF 8)
 Drawn By: JSS
 Checked By: AK
 Drawn Scale: 1:100H:1:50V @ A1
 Date of First Issue: 17.04.20

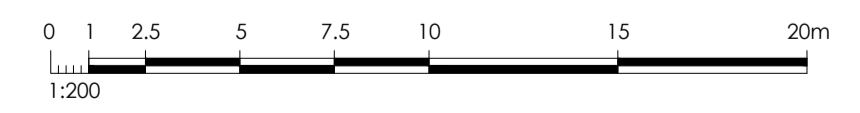
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APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021

		24.06	24.05	24.05	23.75	24.01	23.75	23.75	23.60	23.60	23.75	23.75	24.01	24.05	24.05
DESIGN LEVEL															
EXISTING LEVEL		27.09	27.06	27.06	27.05	27.03	26.97	26.97	26.67	26.66	26.66	26.47	26.36	26.36	
LEVEL DIFFERENCE		-3.03	-3.01	-3.01	-3.30	-3.02	-3.22	-3.27	-2.91	-2.91	-2.91	-2.46	-2.31	-2.31	
OFFSETS		-9.04	-8.04	-8.02	-7.27	-6.52	-3.80	-3.69	-3.65	-3.69	-3.80	6.48	7.97	8.00	

AL - PDRIVE - CL - HA CHAINAGE 121.74
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)



Revision	Date	Reason	Drawn	Checked
0	03.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

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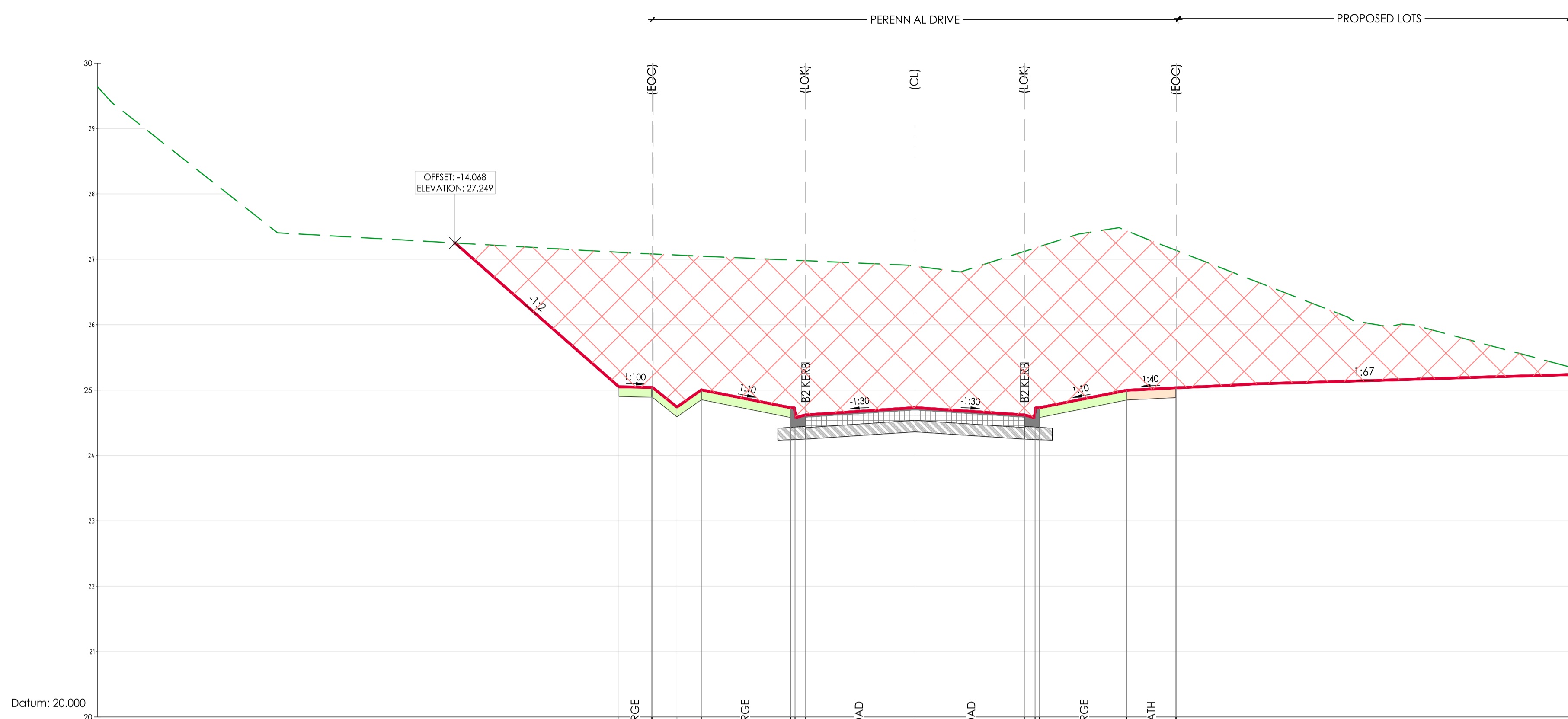
www.cjarms.com

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
ISSUED FOR CONSTRUCTION

Drawing Title: CROSS SECTIONS - PERENNIAL DRIVE
SHEET (3 OF 8)

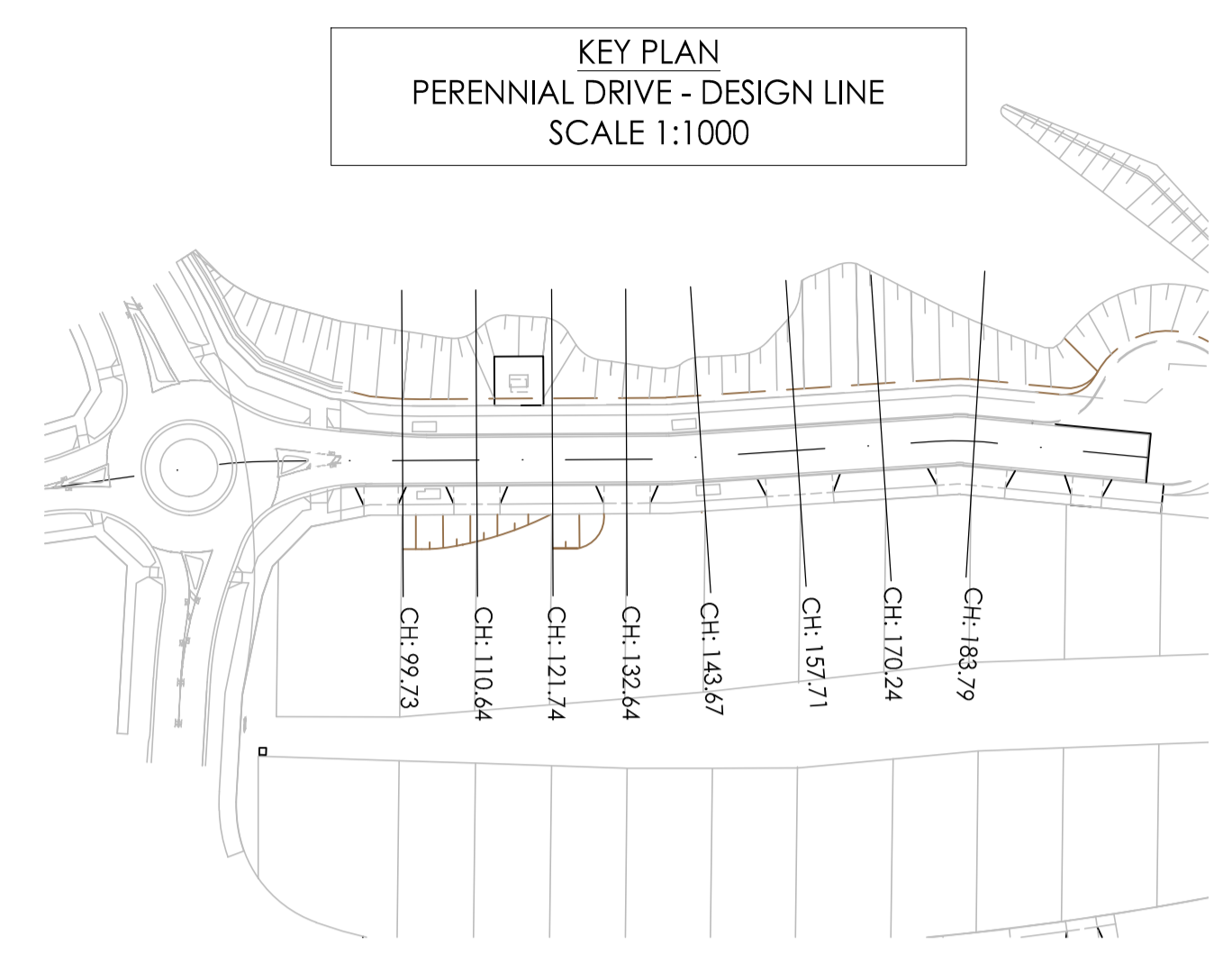
Drawn By: JSS
Checked By: AX
Drawn Scale: 1:100H 1:50V @ A1
Date of First Issue: 09.04.21

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5152	0

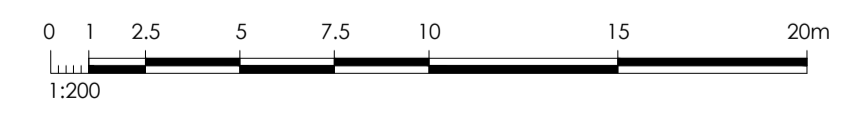


DESIGN LEVEL	25.05	25.04	25.04	24.74	25.00	24.73	24.73	24.62	24.73	25.00	25.03	25.04
EXISTING LEVEL	27.11	27.08	27.08	27.06	27.05	26.99	24.73	24.73	24.58	24.73	27.43	27.13
LEVEL DIFFERENCE	-2.06	-2.04	-2.04	-2.32	-2.05	-3.80	0.00	-3.35	-2.45	-2.46	-2.44	-2.10
OFFSETS	-9.06	-8.06	-8.03	-7.28	-6.53	-3.80	-3.69	-3.65	-3.35	0.00	3.35	3.65

AL - PDRIVE - CL - HA CHAINAGE 132.64
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)



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 Vikramt 01 Oct 2021



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DENOTES ENGINEERED FILL TO T+1 TYPE 2 SPECIFICATION (1000/780.1000.S1.REV4) AND PREPARED UNDER LEVEL 1 SUPERVISION. (AS PART OF EARLY WORKS).

DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

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Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

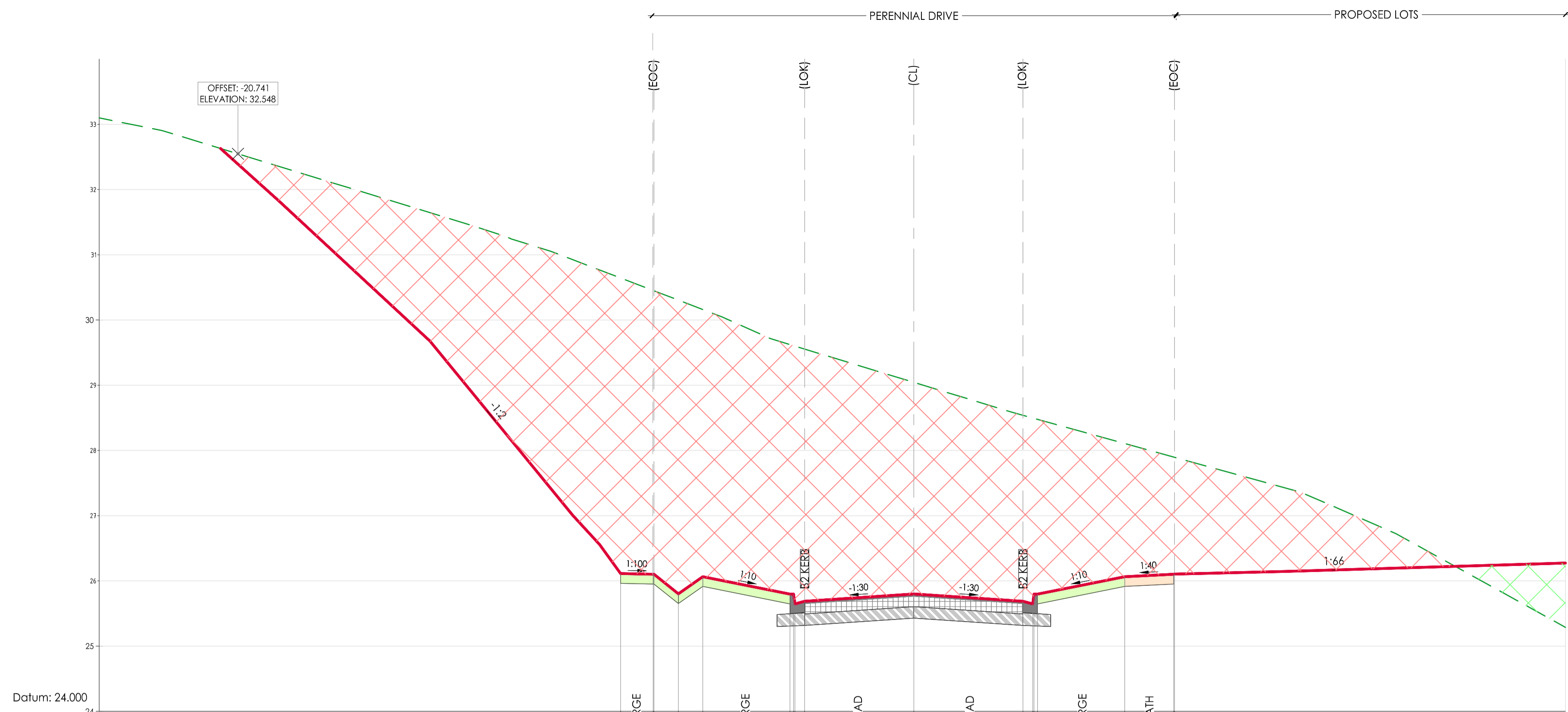
Drawn By: JSS
 Checked By: AX
 Drawn Scale: 1:100H/1:50V @ A1
 Date of First Issue: 09.04.21

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5153	0

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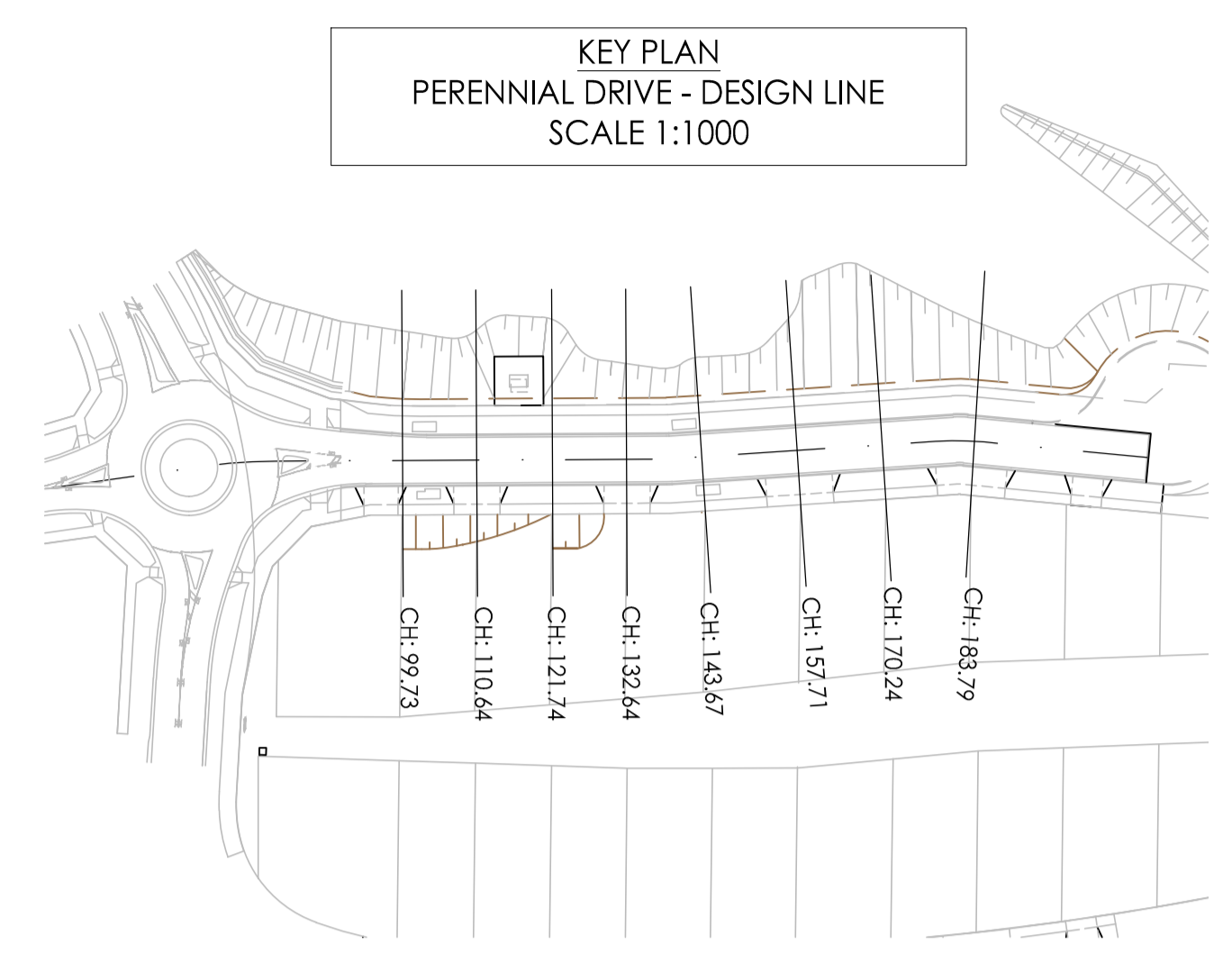
Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AX

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 1. This drawing is copyright of CJ Arms. It must not be copied or reproduced without written consent from the owner.
 2. Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
 3. All contractors must visit site and be responsible for locating and checking all dimensions related to the works shown on the drawing prior to fabrication or setting out.

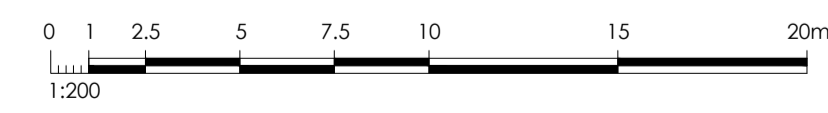


DESIGN LEVEL	26.11	26.10	26.10	25.80	25.65	25.69	25.80	25.69	25.80	26.06	26.10	26.10
EXISTING LEVEL	30.64	30.45	30.45	29.62	29.61	29.55	29.04	28.54	28.50	28.11	27.90	27.89
LEVEL DIFFERENCE	-4.53	-4.35	-4.35	-3.83	-3.81	-3.87	-3.25	-2.85	-2.85	-2.04	-1.80	-1.79
OFFSETS	-9.00	-8.00	-7.97	-3.69	-3.65	-3.35	0.00	3.35	3.65	6.47	7.97	8.00

AL - PDRIVE - CL - HA CHAINAGE 157.71
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)



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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

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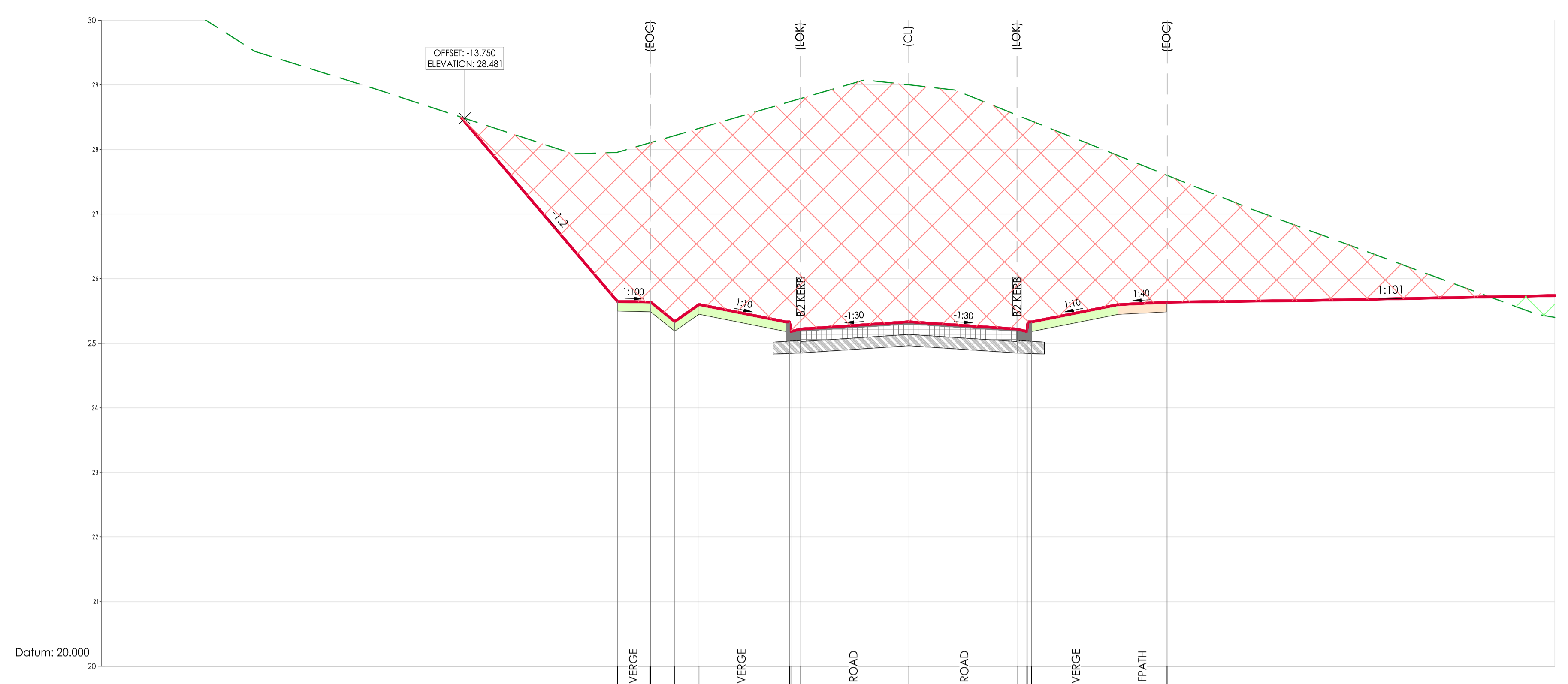
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Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

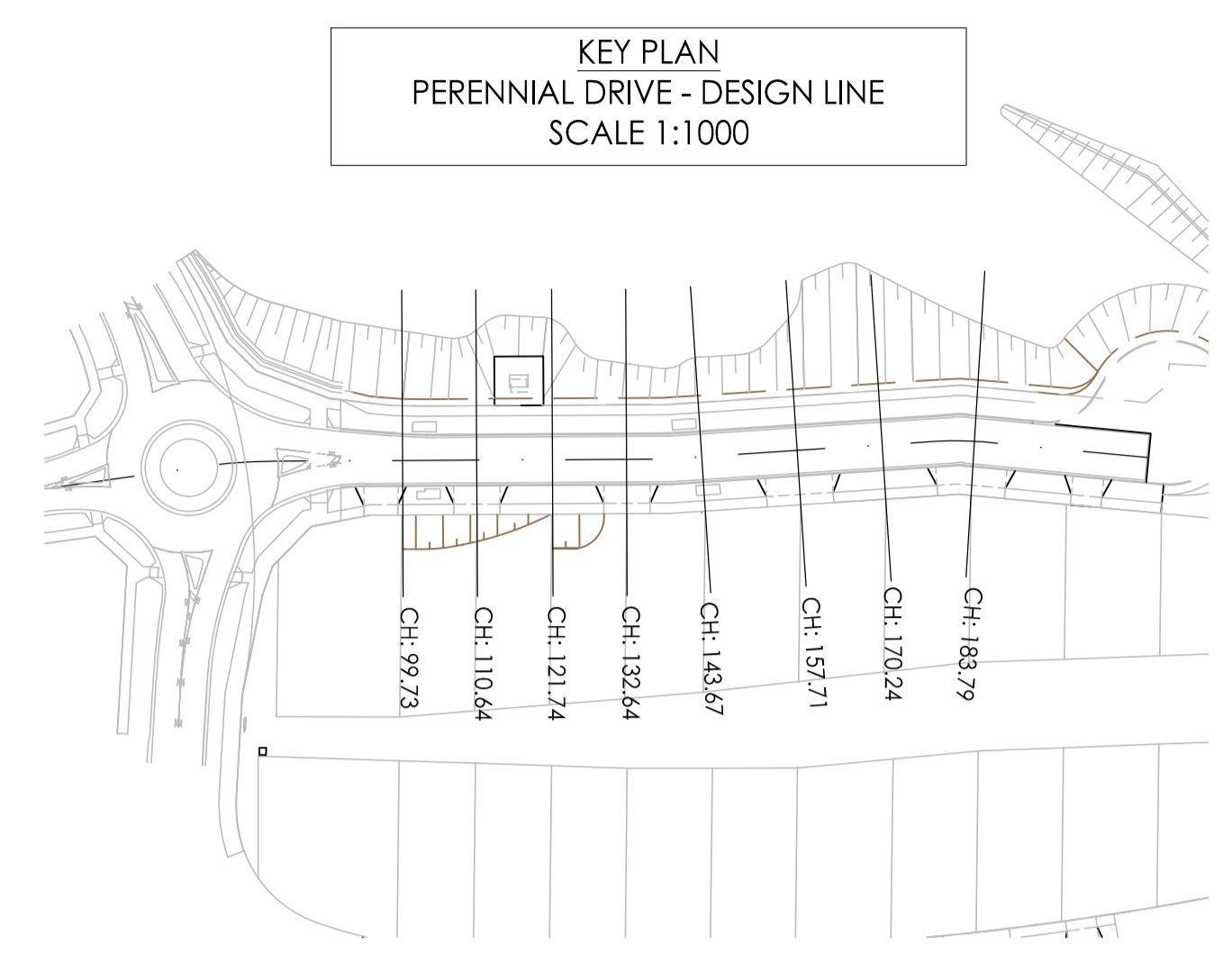
Drawing Title: CROSS SECTIONS - PERENNIAL DRIVE SHEET (5 OF 8)
 Drawn By: JSS
 Checked By: AX
 Drawn Scale: 1:100H 1:50V @ A1
 Date of First Issue: 09.04.21

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5154	0

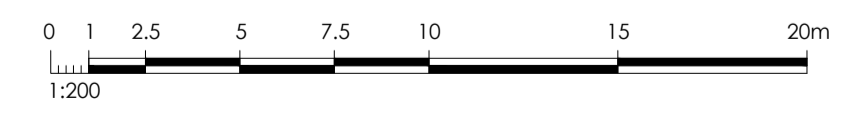


DESIGN LEVEL		25.65	25.64	25.64	25.64	25.60	25.33	25.33	25.33	25.22	25.18	25.33	25.33	25.60	25.63	25.63
EXISTING LEVEL		27.95	28.10	28.11	28.22	28.33	28.72	28.74	28.74	28.79	28.44	28.44	27.90	27.60	27.60	27.60
LEVEL DIFFERENCE		-2.31	-2.47	-2.47	-2.88	-2.73	-3.39	-3.41	-3.56	-3.57	-3.11	-3.11	0.00	-1.97	-1.96	-1.96
OFFSETS		-9.02	-8.02	-8.00	-7.25	-6.50	-3.80	-3.69	-3.65	-3.35	0.00	3.35	3.65	3.69	3.80	6.48

AL - PDRIVE - CL - HA CHAINAGE 143.67
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)



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 Vikramt 01 Oct 2021



Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

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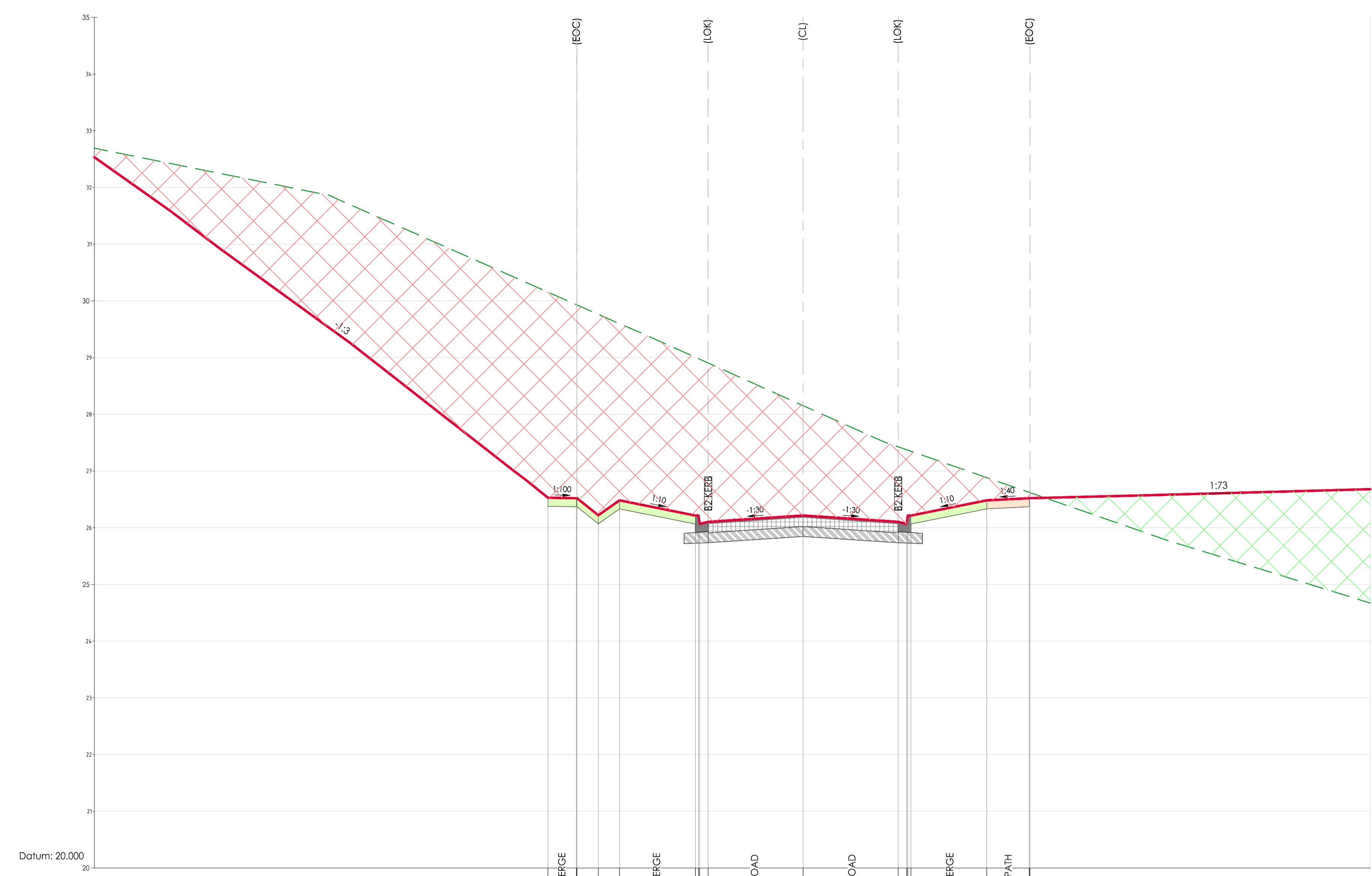
Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Drawn By: JSS
 Checked By: AX
 Drawn Scale: 1:100H
 Date of First Issue: 09.04.21

Drawing Title: CROSS SECTIONS - PERENNIAL DRIVE
 SHEET (6 OF 8)

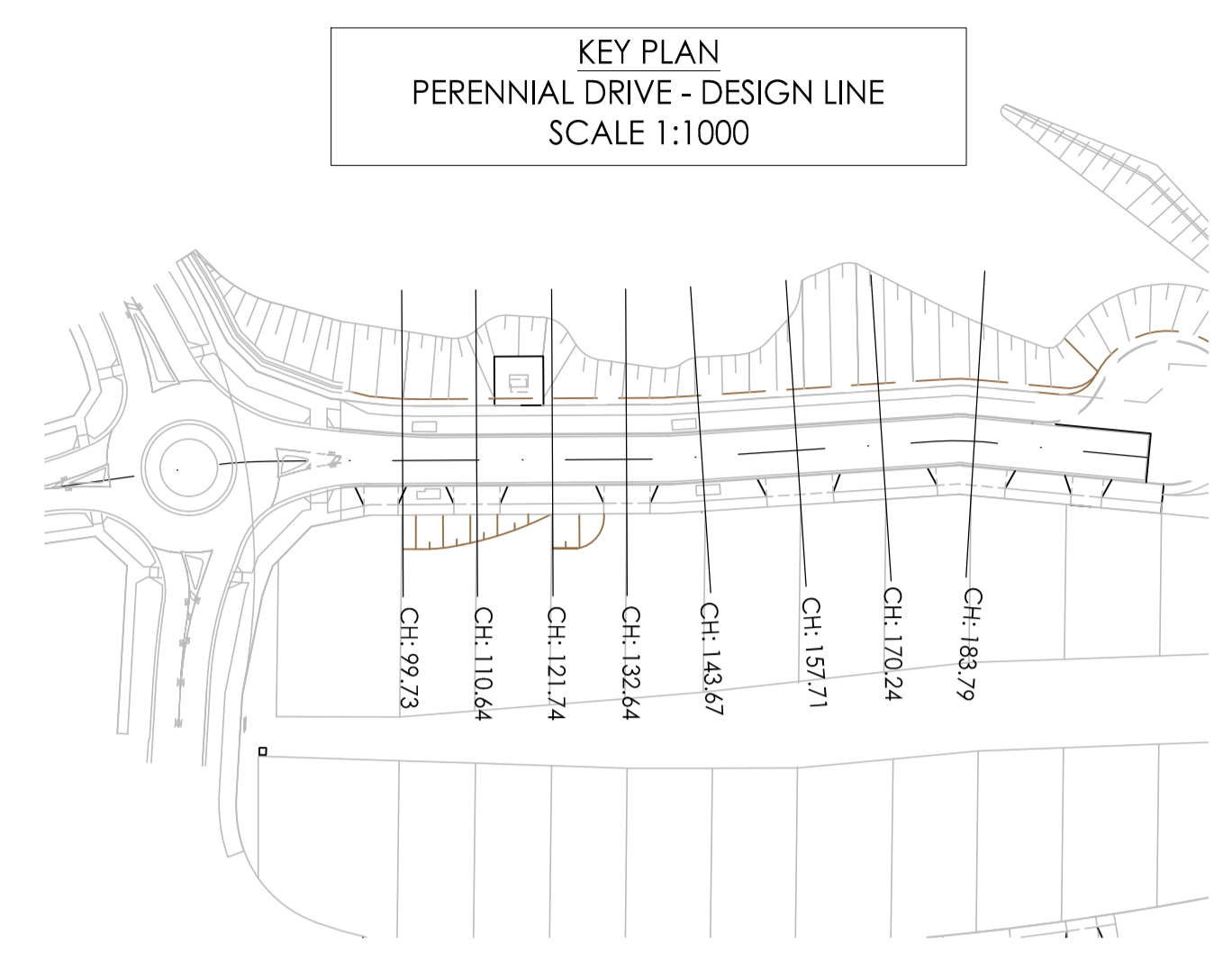
Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5155	0

PERENNIAL DRIVE PROPOSED LOTS



DESIGN LEVEL		26.53	26.52	26.22	26.48	26.21	26.06	26.21	26.48	26.52	26.52						
EXISTING LEVEL		30.15	29.93	29.93	29.76	29.01	28.98	28.97	28.90	28.15	27.43	27.37	27.37	27.35	26.88	26.62	26.62
LEVEL DIFFERENCE		-3.62	-3.41	-3.41	-3.54	-3.11	-2.79	-2.77	-2.91	-1.94	-1.32	-1.31	-1.15	-1.13	-0.40	-0.10	-0.10
OFFSETS		-9.00	-8.00	-7.97	-7.23	-6.47	-3.80	-3.69	-3.35	0.00	3.35	3.65	3.69	3.80	6.47	7.97	8.00

AL - PDRIVE - CL - HA CHAINAGE 170.24
 SCALE HORIZ. 1:100
 SCALE VERT. 1:50 (X2)



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 Vikramt 01 Oct 2021

Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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DENOTES EXTENT OF CUT (AS PART OF EARLY WORKS)

ISSUED FOR CONSTRUCTION

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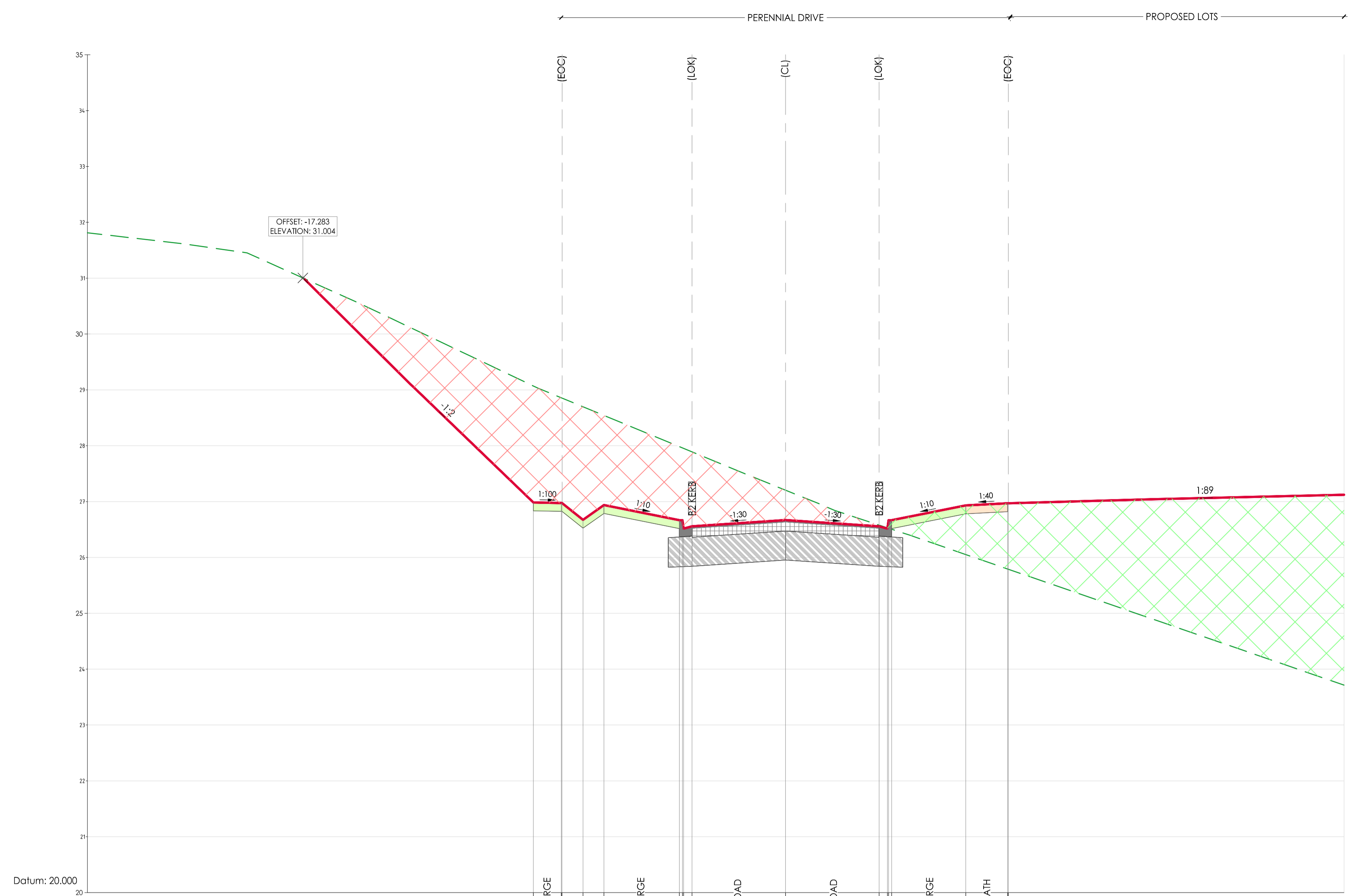
Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND

Drawn By: JSS
 Checked By: AX

Drawn Scale: 1:100H
 Date of First Issue: 09.04.21

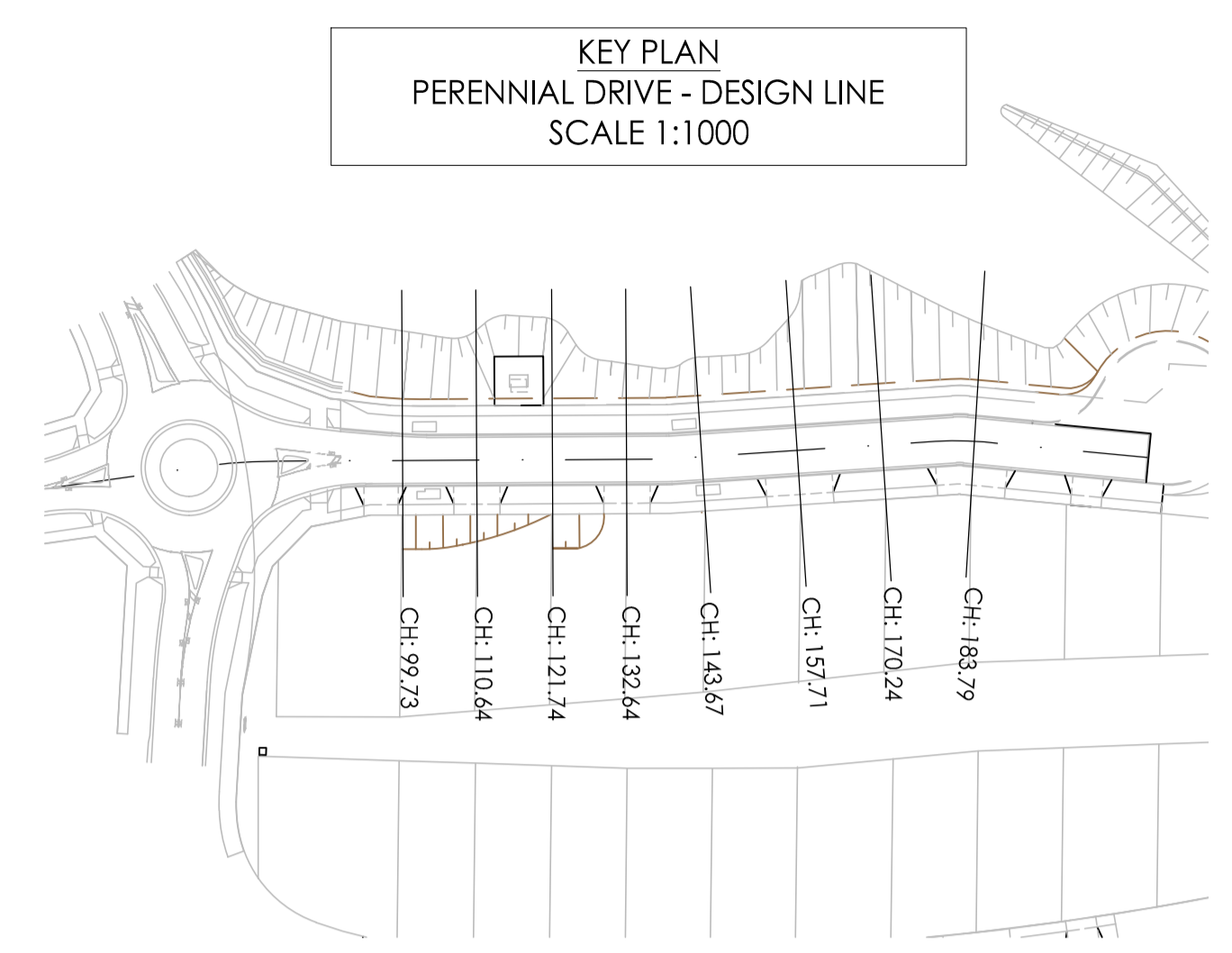
Project Number	Origin	Zone	Level	File Type	Base	Number	Revision
15019	CJA	7C	XX	DR	C	5156	0

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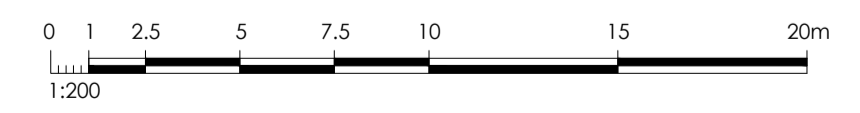


	9.03	29.07	26.98	26.97	26.97	26.97	26.97	26.94	26.67	26.67	26.67	26.52	26.52	26.67	26.67	26.93	26.97	26.97
DESIGN LEVEL																		
EXISTING LEVEL																		
LEVEL DIFFERENCE																		
OFFSETS																		

AL - PDRIVE - CL - HA CHAINAGE 183.79
SCALE HORIZ. 1:100
SCALE VERT. 1:50 (X2)



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URBAN DESIGN • SCIENCE • LANDSCAPE • CIVIL • MODELING • HYDRAULICS

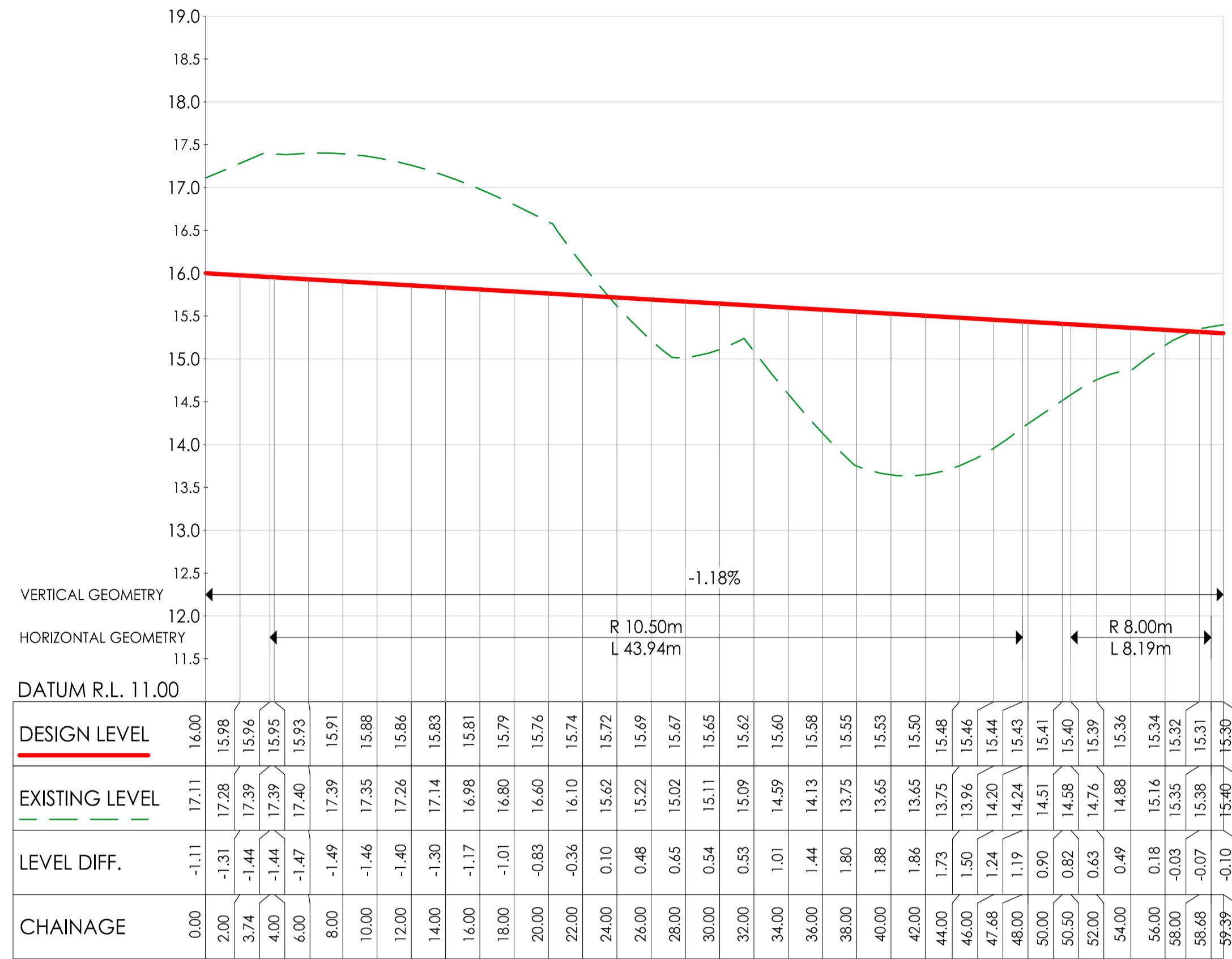
Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND

Drawn By: JSS
Checked By: AX

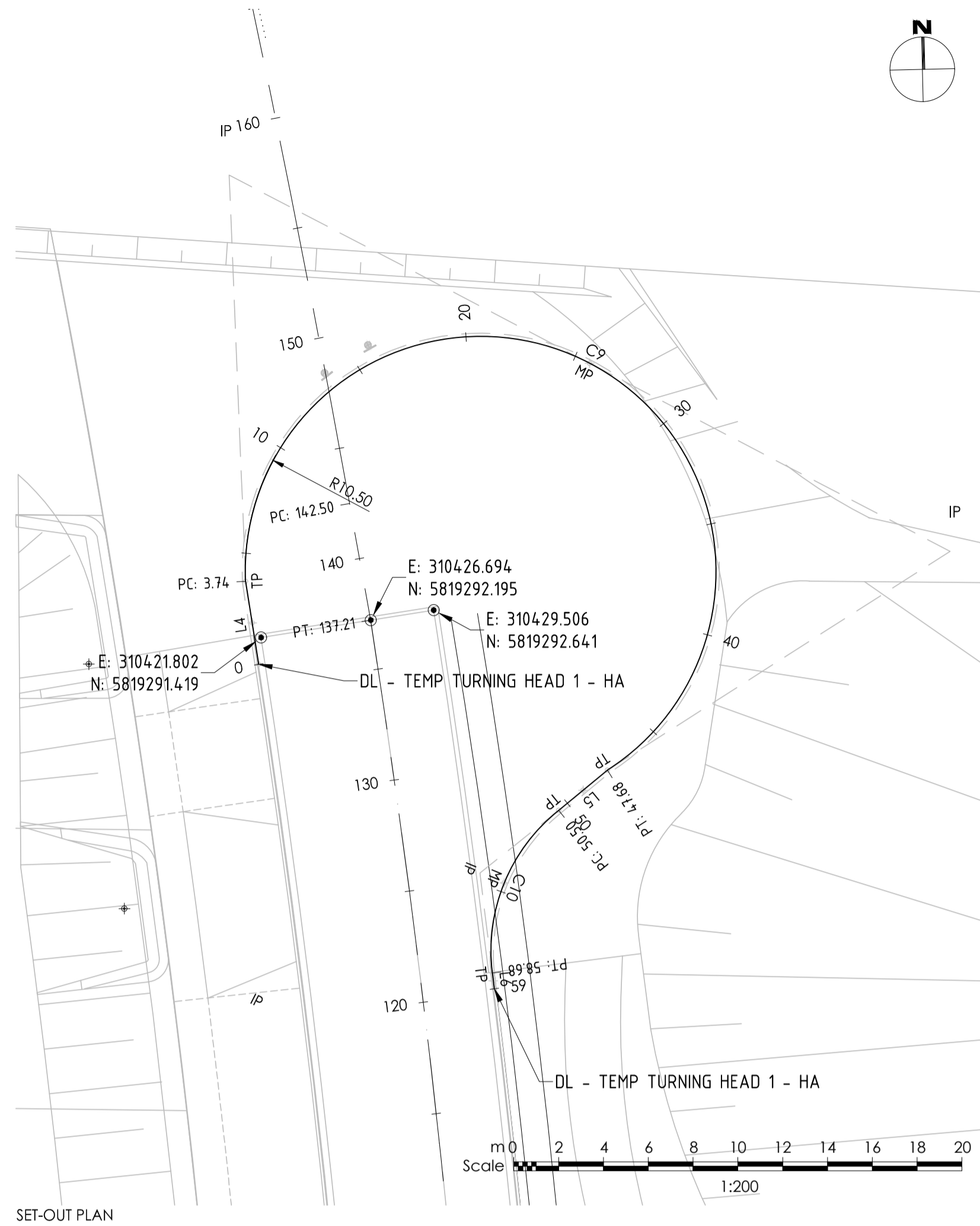
Drawn Scale: 1:100H/1:50V @ A1
Date of First Issue: 09.04.21

Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5157	0

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DL - TEMP TURNING HEAD 1 - HA - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:50 (5x)

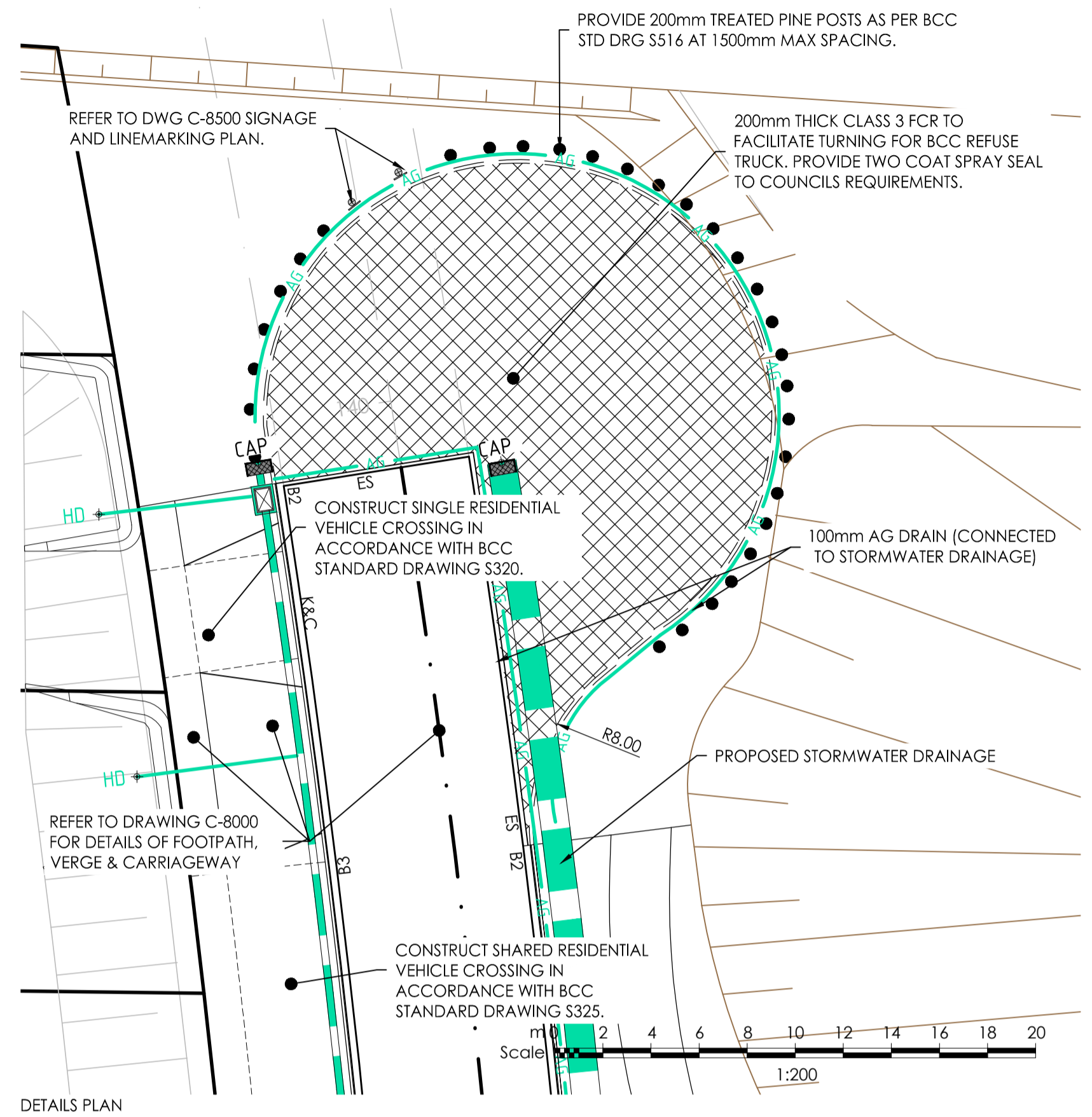


SET-OUT PLAN

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LEGEND

- PROPOSED CARRIAGEWAY
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAY



DETAILS PLAN

Set Out Table for DL - TEMP TURNING HEAD 1 - HA

TAG	START	END	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L4	START	END	0.00	310421.695	5819290.225	3.74		351° 01' 25"
			3.74	310421.110	5819293.923			
C9	TP	IP	3.74	310421.110	5819293.923	43.94	10.5	117° 33' 20.56"
	IP	TP	-14.53	310421.852	5819275.665			
	TP	IP	47.68	310437.253	5819285.500			
L5	START	END	47.68	310437.253	5819285.500	2.81		230° 30' 14"
			50.50	310435.081	5819283.710			
C10	TP	IP	50.50	310435.081	5819283.710	8.19	8.0	202° 12' 31.71"
	IP	TP	54.99	310431.564	5819280.915			
	TP	IP	58.68	310432.120	5819276.457			
L6	START	END	58.68	310432.120	5819276.457	0.71		172° 49' 44"
			59.39	310432.209	5819275.753			

Revision	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JIS	AK

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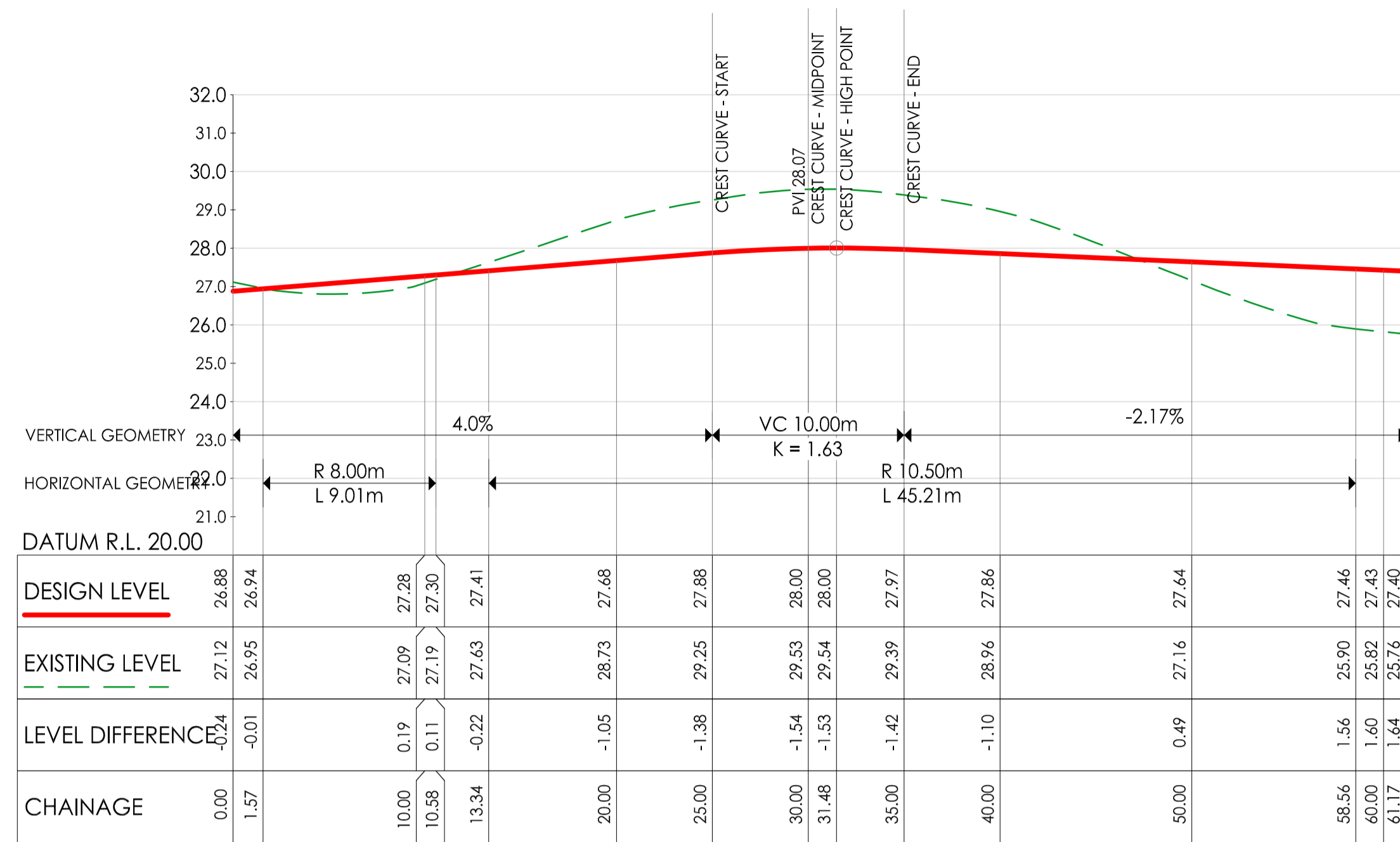
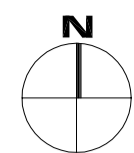
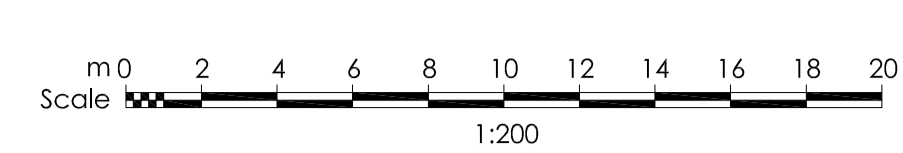
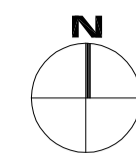
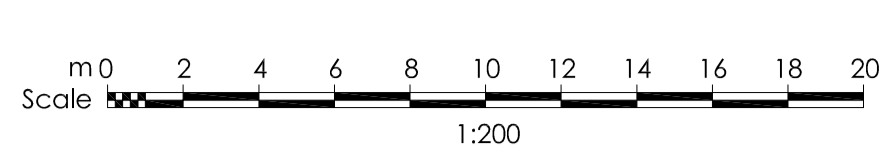
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Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 National number: 1300 737 737
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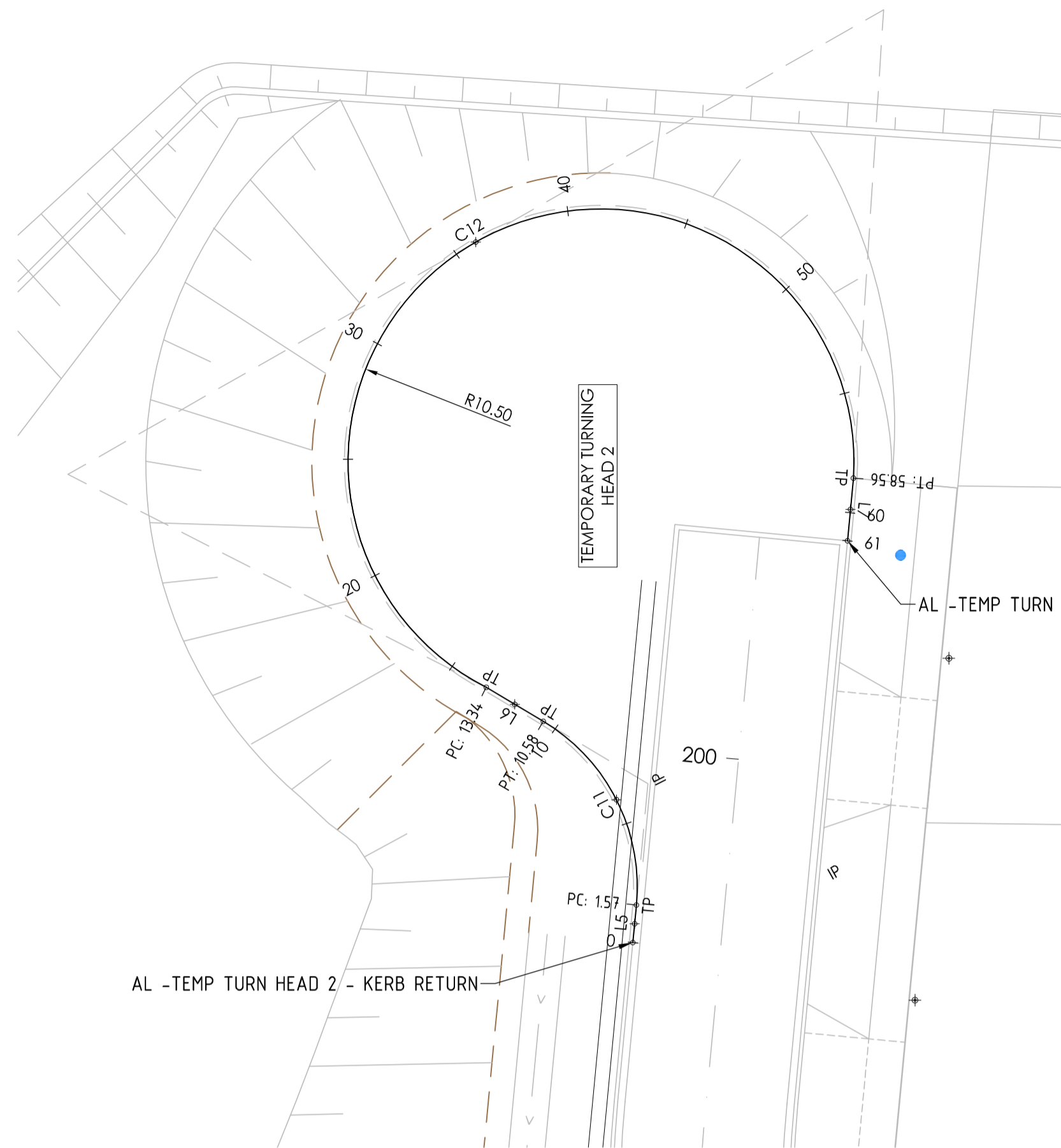
Drawn By: JIS
 Checked By: AK
 Drawn Scale: 1:200 @ A1
 Date of First Issue: 17/04/20

Project number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	5200	0

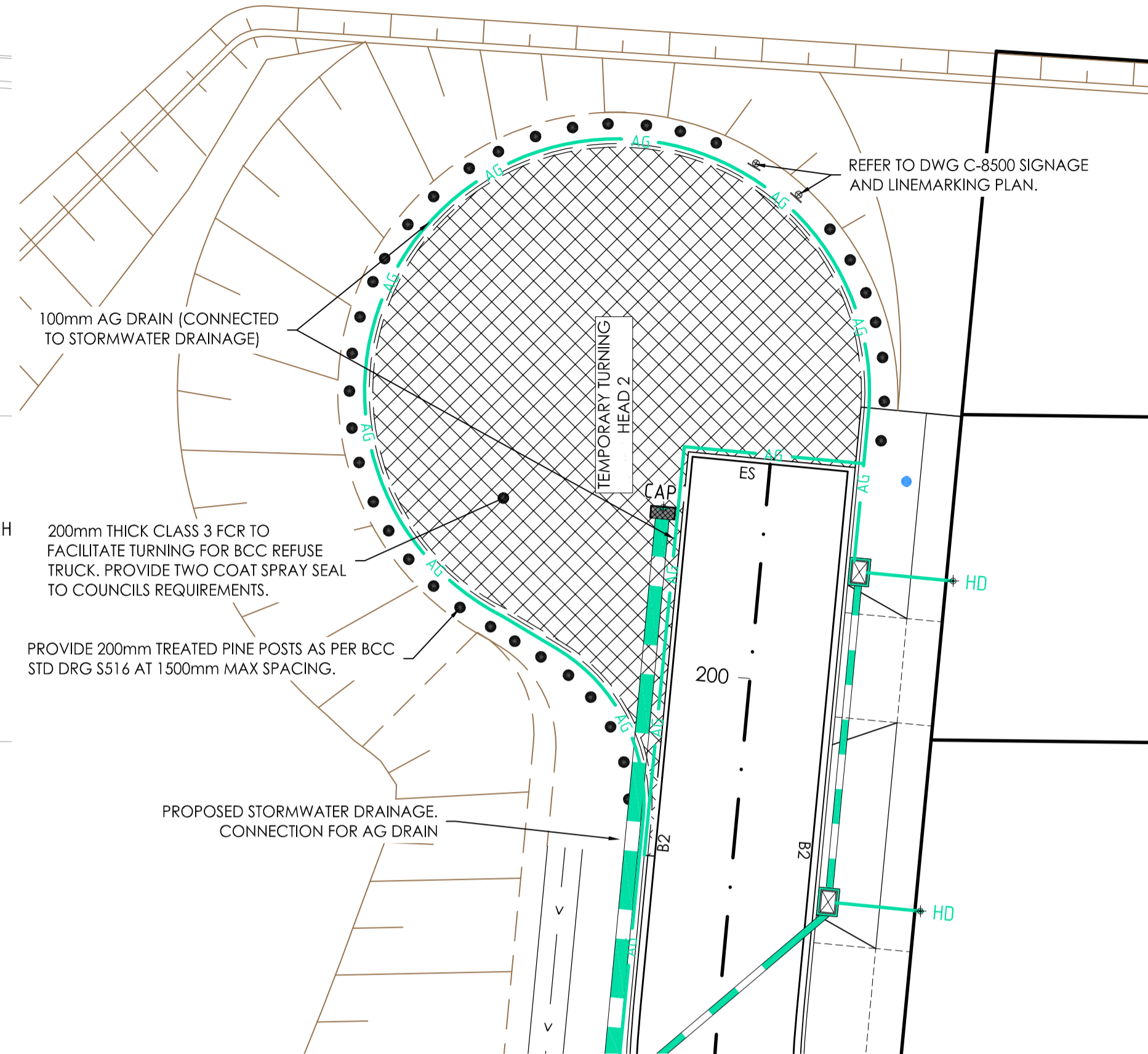
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AL -TEMP TURN HEAD 2 - KERB RETURN - LONG SECTION
 SCALES: HORIZONTAL 1:250 VERTICAL 1:125 (2x)



SET-OUT PLAN



DETAILS PLAN

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Set Out Table for AL -TEMP TURN HEAD 2 - KERB RETURN							
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L5	START	0.00	310343.498	5819278.594			
	END	1.57	310343.645	5819280.155	1.57		005° 24' 06"
C11	TP	1.57	310343.645	5819280.155		8.0	
	IP	6.62	310344.121	5819285.186	9.01		333° 07' 19.04"
	TP	10.58	310339.782	5819287.777			
L6	START	10.58	310339.782	5819287.777			
	END	13.34	310337.413	5819289.192	2.76		300° 50' 32"
C12	TP	13.34	310337.413	5819289.192		10.5	
	IP	-2.61	310351.627	5819281.959	45.21		060° 19' 46.55"
	TP	58.56	310352.653	5819297.874			
L7	START	58.56	310352.653	5819297.874			
	END	61.17	310352.407	5819295.274	2.61		185° 24' 06"

Revisions	Date	By	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS AK

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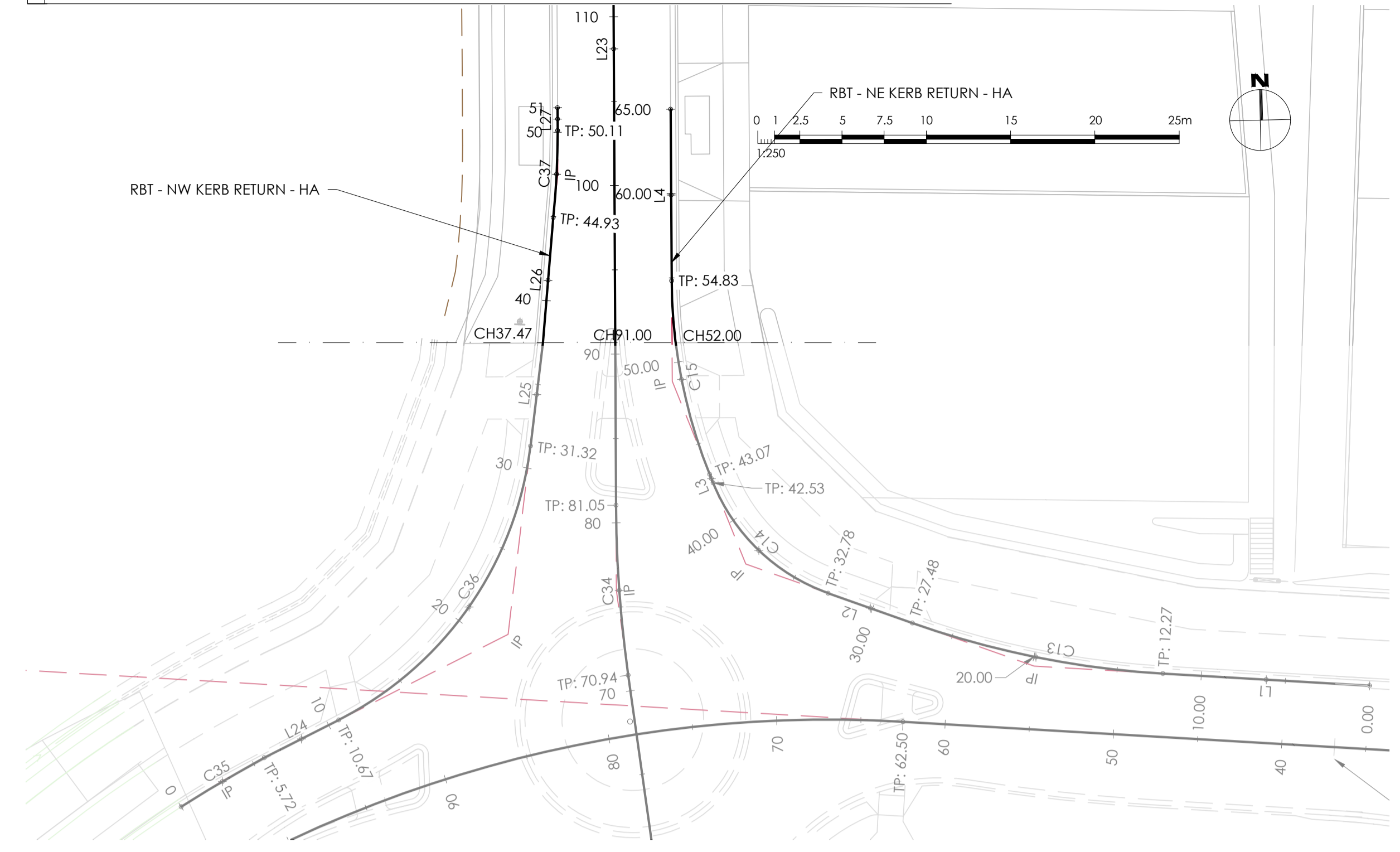
Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Purpose of Issue: DETAILS & SET OUT - TEMP TURN HEAD 2 PERRENAL DRIVE

Drawn By: JSS
 Checked By: AK
 Drawn Scale: AS SHOWN @ A1
 Date of First Issue: 09/04/21

ISSUED FOR CONSTRUCTION

Project Number	Stage	Zone	Level	R/W Type	Role	Number	Revisions
15019	CJA	7C	XX	DR	C	5201	0

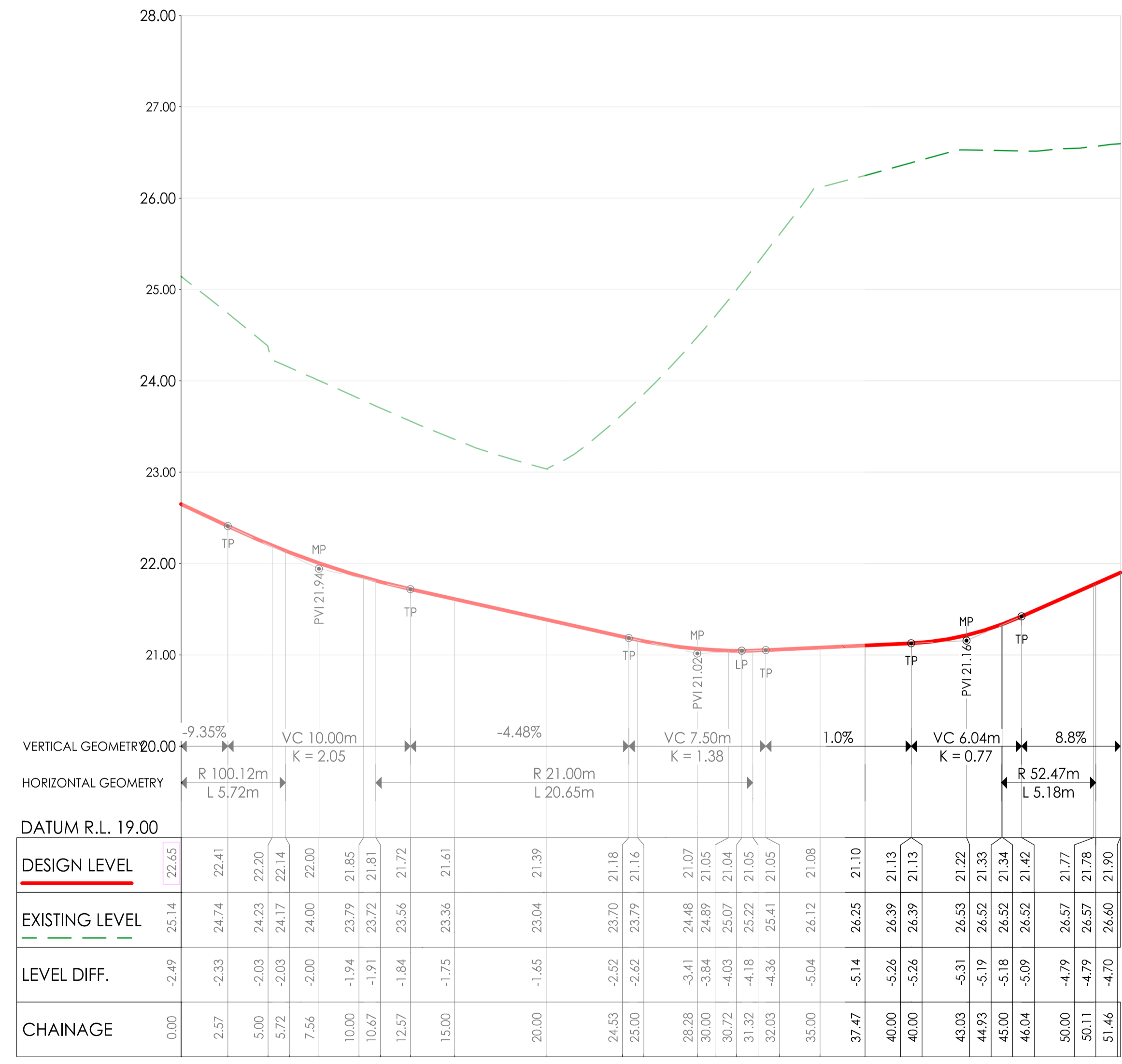
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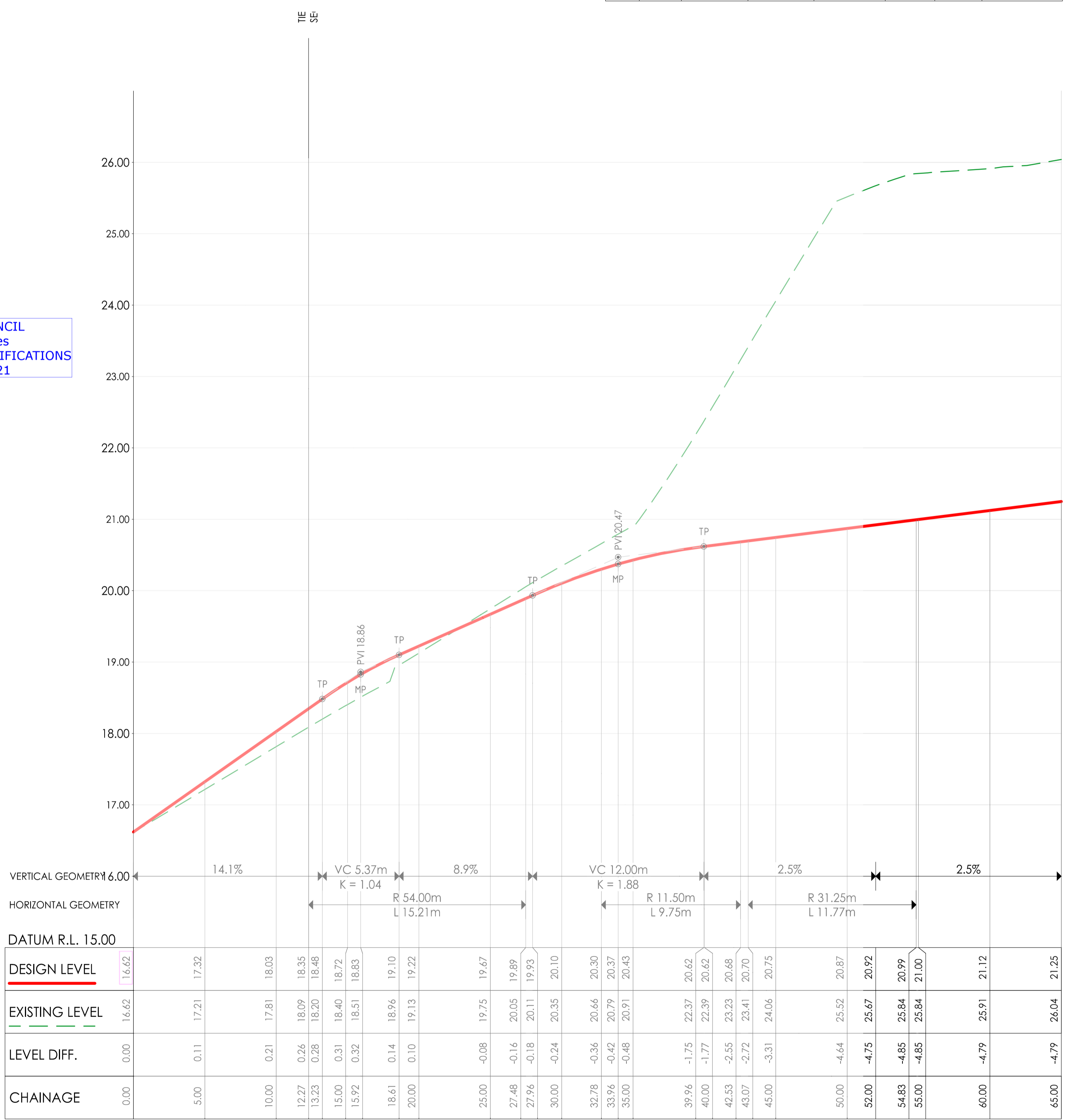
Set Out Table for AL - RBT - NW KERB RETURN - HA							
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
C35	TP	0.00	310323.509	5819149.535	5.72	100.1	059° 30' 56.22"
	IP	2.86	310325.933	5819151.056			
	TP	5.72	310328.440	5819152.437			
L24	START	5.72	310328.440	5819152.437	4.95		063° 09' 46"
	END	10.67	310332.857	5819154.672			
C36	TP	10.67	310332.857	5819154.672	20.65	210	034° 59' 30.06"
	IP	21.92	310342.892	5819159.749			
	TP	31.32	310344.228	5819170.916			
L25	START	31.32	310344.228	5819170.916	6.14		006° 49' 14"
	END	37.47	310344.958	5819177.018			
L26	START	37.47	310344.958	5819177.018	7.46		004° 42' 50"
	END	44.93	310345.571	5819184.456			
C37	TP	44.93	310345.571	5819184.456	5.18	52.5	003° 00' 47.78"
	IP	47.52	310345.835	5819187.033			
	TP	50.11	310345.843	5819189.623			
L27	START	50.11	310345.843	5819189.623	1.35		359° 28' 28"
	END	51.46	310345.831	5819190.971			

Set Out Table for AL - RBT - NE KERB RETURN - HA							
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L1	START	0.00	310393.989	5819156.705	12.27		273° 21' 15"
	END	12.27	310381.737	5819157.423			
C13	TP	12.27	310381.737	5819157.423	15.21	54.0	281° 25' 25.61"
	IP	19.93	310374.094	5819157.871			
	TP	27.48	310366.877	5819160.425			
L2	START	27.48	310366.877	5819160.425	5.30		289° 29' 36"
	END	32.78	310361.885	5819162.193			
C14	TP	32.78	310361.885	5819162.193	9.75	11.5	313° 47' 19.03"
	IP	37.97	310356.991	5819163.925			
	TP	42.53	310355.054	5819168.741			
L3	START	42.53	310355.054	5819168.741	0.53		338° 05' 02"
	END	43.07	310354.855	5819169.236			
C15	TP	43.07	310354.855	5819169.236	11.77	31.2	348° 52' 12.35"
	IP	49.02	310352.632	5819174.759			
	TP	54.83	310352.597	5819180.713			
L4	START	54.83	310352.597	5819180.713	10.17		359° 39' 23"
	END	65.00	310352.536	5819190.881			

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AL - RBT - NW KERB RETURN - HA - LONG SECTION
SCALES: HORIZONTAL 1:100 VERTICAL 1:20 (5x)



AL - RBT - NE KERB RETURN - HA - LONG SECTION
SCALES: HORIZONTAL 1:100 VERTICAL 1:20 (5x)

Revision	Date	By	Checked
0	30/09/21	SSS	AK
1		SSS	AK

Note for Contractors
The works described on this drawing must be undertaken by competent Contractors with an appropriate level of experience who have prepared appropriate Safe Work Method Statements (SWMS) relating to these works. The contractor is responsible for the management of all risks associated with the construction activities stated on this drawing.

This drawing should not be issued in part and must be read in conjunction with all appropriate specifications, notes pages, details and authority drawings as appropriate.

Deal before you dig, BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

NOTE: CONTRACTOR SHALL SEQUENCE WORKS ON SITE WITH STAGE 7B ROUNDABOUT.
ROUNDABOUT SUBJECT TO SEPARATE APPROVAL.

ISSUED FOR CONSTRUCTION

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CJ ARMS

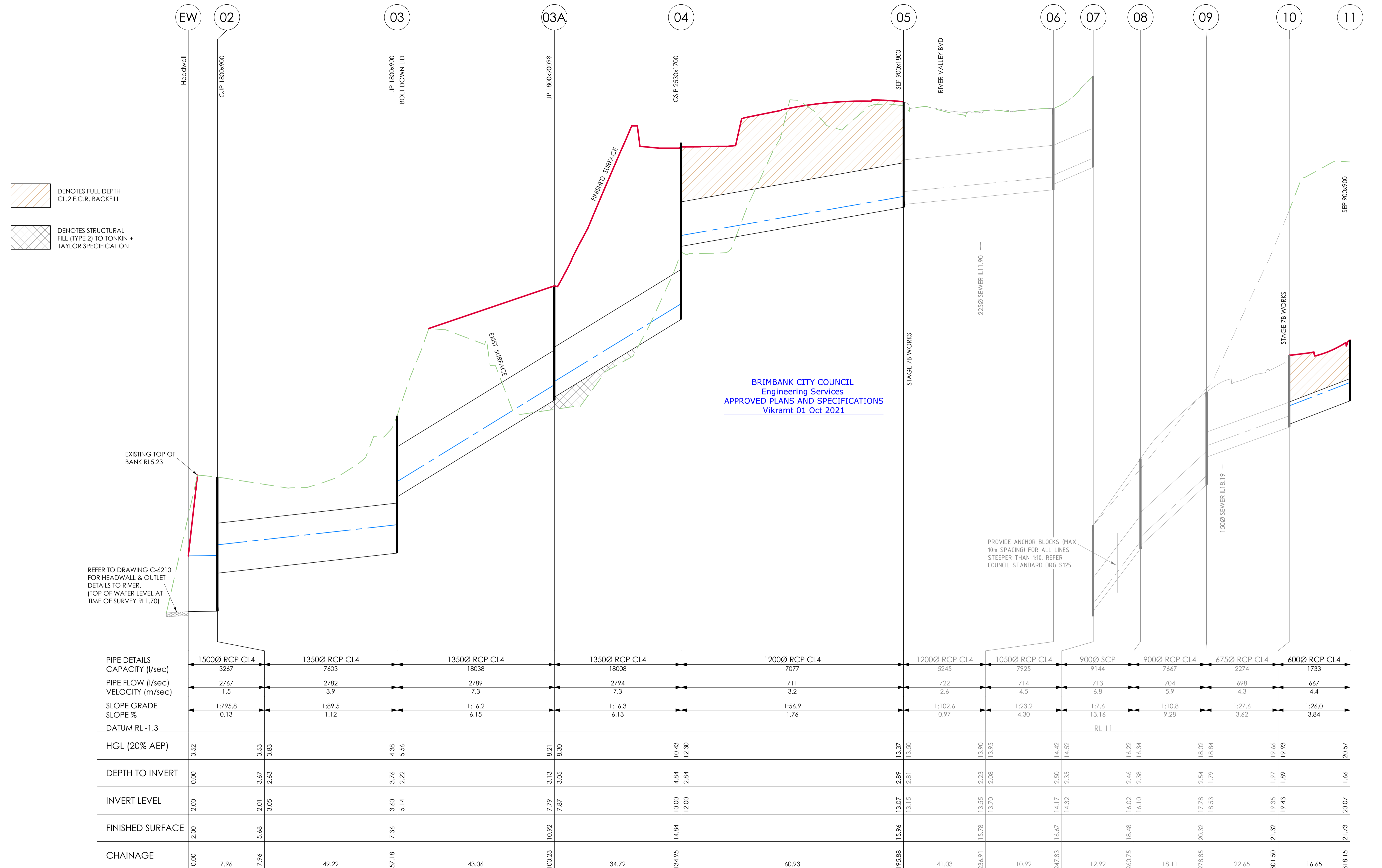
CIVIL SITWORKS

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for: ISSUED FOR CONSTRUCTION

Drawn By: JSS
Checked By: VE
Drawn Scale: 1:20 @ A1
Date of first issue: 16/04/21

Project Number: 15019
Origin: CJA
Zone: 7C
Level: XX
File Type: DR
Rev: C
Number: 5202
Revision: 0

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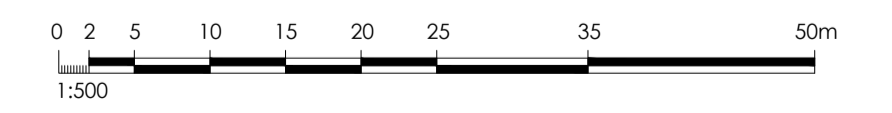
BRIMBANK CITY COUNCIL
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Vikramt 01 Oct 2021

EXISTING TOP OF BANK RL5.23
REFER TO DRAWING C-6210 FOR HEADWALL & OUTLET DETAILS TO RIVER. (TOP OF WATER LEVEL AT TIME OF SURVEY RL1.70)

PROVIDE ANCHOR BLOCKS (MAX 10m SPACING) FOR ALL LINES STEEPER THAN 1:10. REFER COUNCIL STANDARD DRG S125

PIPE DETAILS	1500Ø RCP CL4	1350Ø RCP CL4	1350Ø RCP CL4	1350Ø RCP CL4	1200Ø RCP CL4	1200Ø RCP CL4	1050Ø RCP CL4	900Ø SCP	900Ø RCP CL4	675Ø RCP CL4	600Ø RCP CL4													
CAPACITY (l/sec)	3267	7603	18038	18008	7077	5245	7925	9144	7667	2274	1733													
PIPE FLOW (l/sec)	2767	2782	2789	2794	711	722	714	713	704	698	667													
VELOCITY (m/sec)	1.5	3.9	7.3	7.3	3.2	2.6	4.5	6.8	5.9	4.3	4.4													
SLOPE GRADE	1:795.8	1:89.5	1:16.2	1:16.3	1:56.9	1:102.6	1:23.2	1:7.6	1:10.8	1:27.6	1:26.0													
SLOPE %	0.13	1.12	6.15	6.13	1.76	0.97	4.30	13.16	9.28	3.62	3.84													
DATUM RL -1.3								RL 11																
HGL (20% AEP)	3.52	3.53 3.83	4.38 5.56	8.21 8.30	10.43 12.30	13.37 13.50	13.90 13.95	14.42 14.52	16.22 16.34	18.02 18.84	19.66 19.93	20.57												
DEPTH TO INVERT	0.00	3.67 2.63	3.76 2.22	3.13 3.05	4.84 2.84	2.89 2.81	2.23 2.08	2.50 2.35	2.46 2.38	2.54 1.79	1.97 1.89	1.66												
INVERT LEVEL	2.00	2.01 3.05	3.40 5.14	7.79 7.87	10.00 12.00	13.07 13.15	13.55 13.70	14.17 14.32	16.02 16.10	17.78 18.53	19.35 19.43	20.07												
FINISHED SURFACE	2.00	5.68	7.36	10.92	14.84	15.96	15.78	16.67	18.48	20.32	21.32	21.73												
CHAINAGE	0.00	7.96	7.96	49.22	57.18	43.06	100.23	34.72	134.95	60.93	195.88	41.03	236.91	15.78	10.92	247.83	12.92	260.75	18.11	278.85	22.65	301.50	16.65	318.15

SCALES: HORIZONTAL 1:500 VERTICAL 1:50



0	30.09.21	ISSUED FOR CONSTRUCTION	25	AK
Revised	Date	Reason	Drawn	Checked

ISSUED FOR CONSTRUCTION

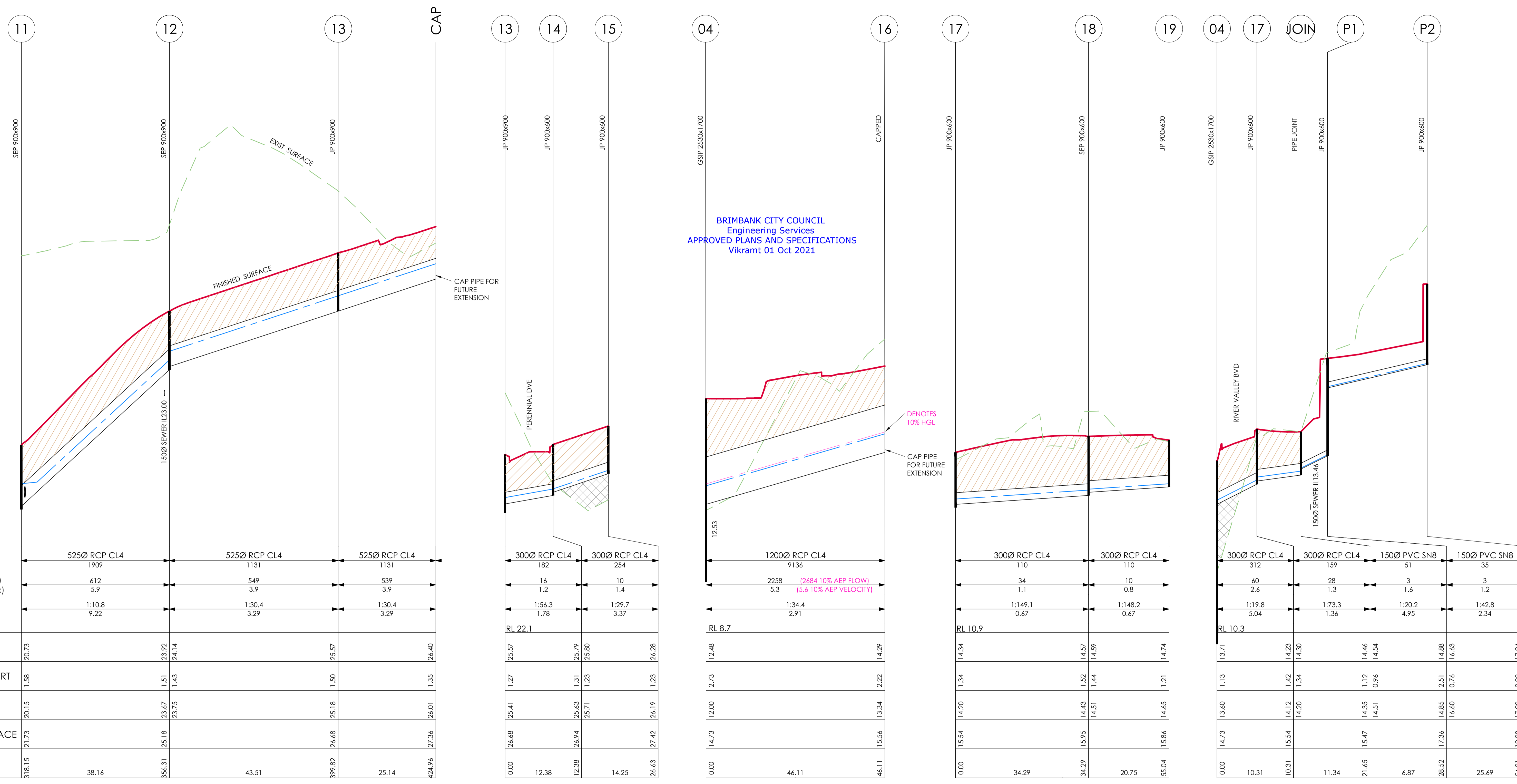
Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawing File: LONG SECTIONS - STORMWATER SHEET (1 OF 3)
Drawn By: PS
Checked By: AX
Drawn Scale: H1:500 V 1:50 B A1
Date of First Issue: 20.08.20

Project Number	Origin	Zone	Level	File Type	Revs	Number	Revision
15019	CJA	7C	XX	DR	C	6100	0

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PIPE DETAILS	525Ø RCP CL4	525Ø RCP CL4	525Ø RCP CL4
CAPACITY (l/sec)	1909	1131	1131
PIPE FLOW (l/sec)	612	549	539
VELOCITY (m/sec)	5.9	3.9	3.9
SLOPE GRADE	1:10.8	1:30.4	1:30.4
SLOPE %	9.22	3.29	3.29
DATUM RL 16.9			
HGL (20% AEP)	20.73	23.92 24.14	25.57
DEPTH TO INVERT	1.58	1.51 1.43	1.50
INVERT LEVEL	20.15	23.67 23.75	25.18
FINISHED SURFACE	21.73	25.18	26.68
CHAINAGE	31.815 38.16	356.31 25.18 23.75	399.82 26.68 25.18

300Ø RCP CL4	300Ø RCP CL4
182	254
16	10
1.2	1.4
1:56.3	1:29.7
1.78	3.37
RL 22.1	
25.57	25.79 25.80
1.27	1.31 1.23
25.41	25.63 25.71
26.68	26.94 26.94
0.00	12.38 14.25

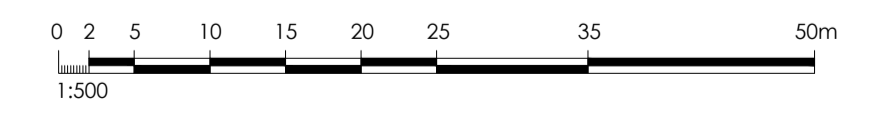
1200Ø RCP CL4	300Ø RCP CL4	300Ø RCP CL4
9136	110	110
2258	34	10
5.3	1.1	0.8
1:34.4	1:149.1	1:148.2
2.91	0.67	0.67
RL 8.7		
12.48	14.34	14.57
2.73	1.34	1.52
12.00	14.20	14.43
14.73	15.54	15.95
0.00	34.29	46.11

300Ø RCP CL4	300Ø RCP CL4	1500 PVC SN8	1500 PVC SN8
110	110	51	35
34	10	3	3
1.1	0.8	1.6	1.2
1:149.1	1:148.2	1:20.2	1:42.8
0.67	0.67	4.95	2.34
RL 10.9			
14.34	14.57	14.46	14.74
1.34	1.52	0.96	1.21
14.20	14.43	14.51	14.65
15.54	15.95	15.47	15.86
0.00	34.29	20.75	55.04

300Ø RCP CL4	300Ø RCP CL4	1500 PVC SN8	1500 PVC SN8
312	159	51	35
60	28	3	3
2.6	1.3	1.6	1.2
1:19.8	1:73.3	1:20.2	1:42.8
5.04	1.36	4.95	2.34
RL 10.3			
13.71	14.23	14.46	14.88
1.13	1.34	0.96	0.76
13.60	14.12	14.35	14.85
14.73	15.54	15.47	17.36
0.00	10.31	11.34	28.52

SCALES: HORIZONTAL 1:500 VERTICAL 1:50

DENOTES FULL DEPTH CL.2 F.C.R. BACKFILL
 DENOTES STRUCTURAL FILL (TYPE 2) TO TONKIN + TAYLOR SPECIFICATION



Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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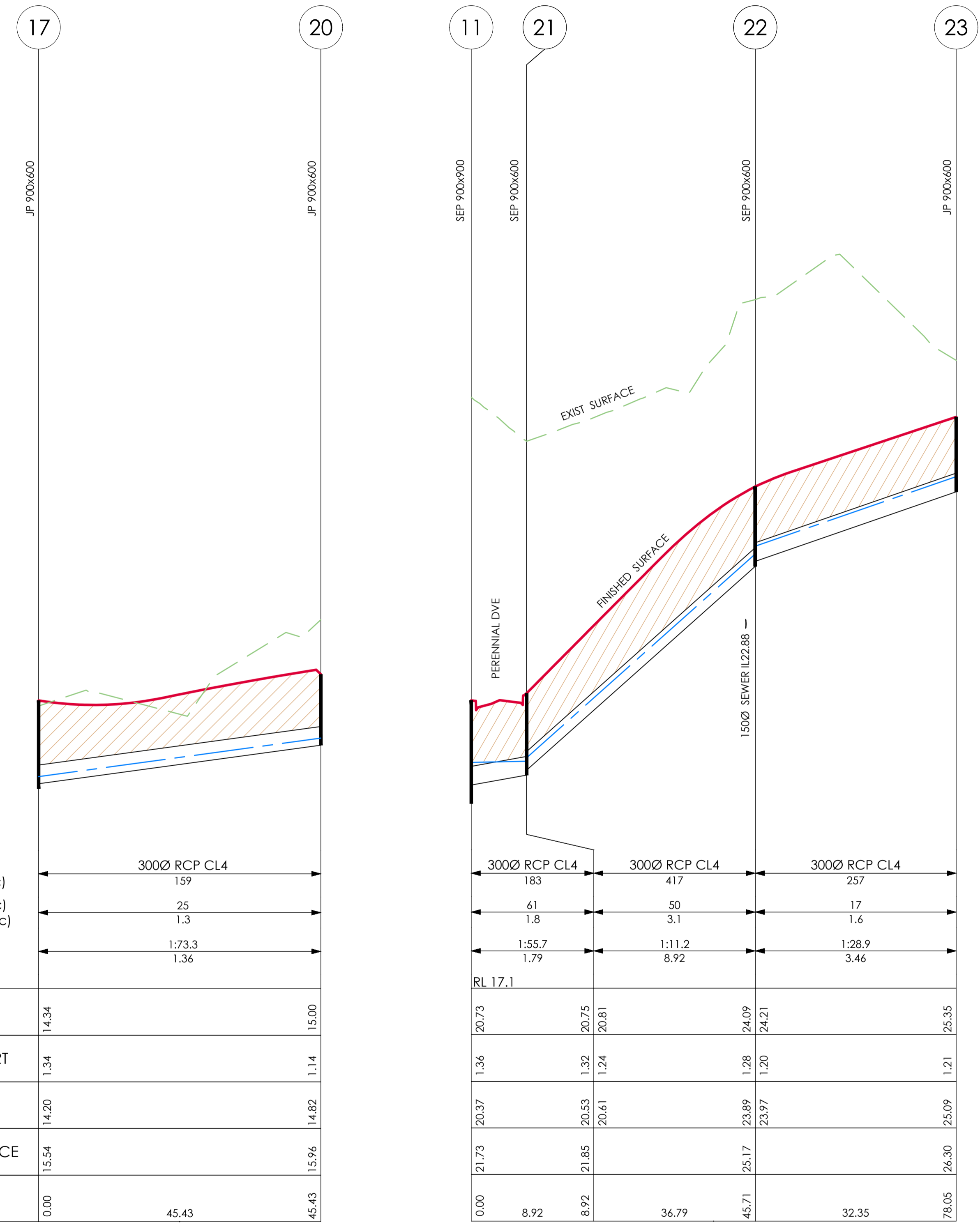
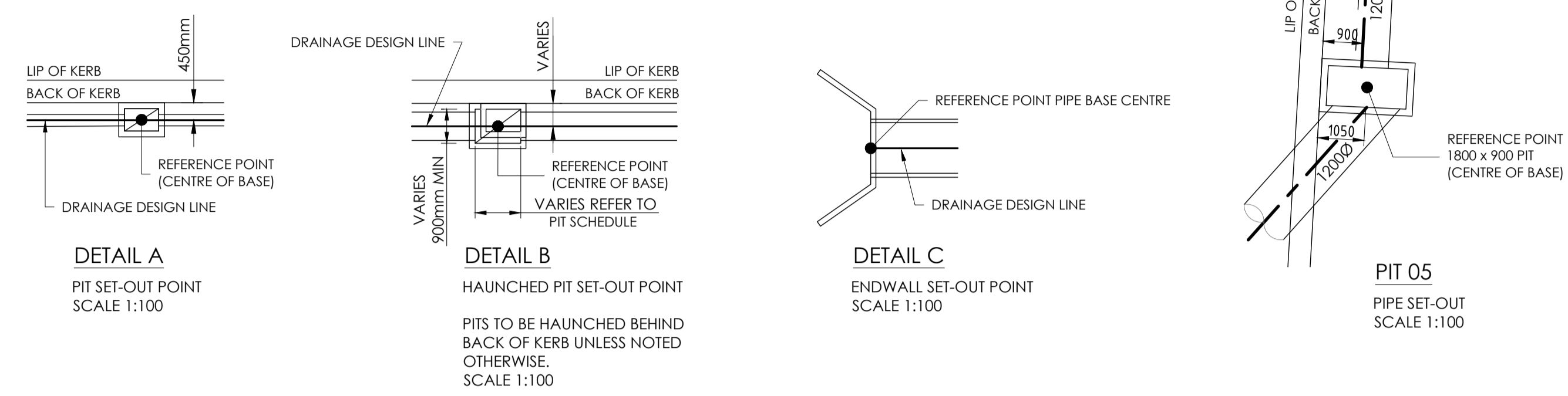
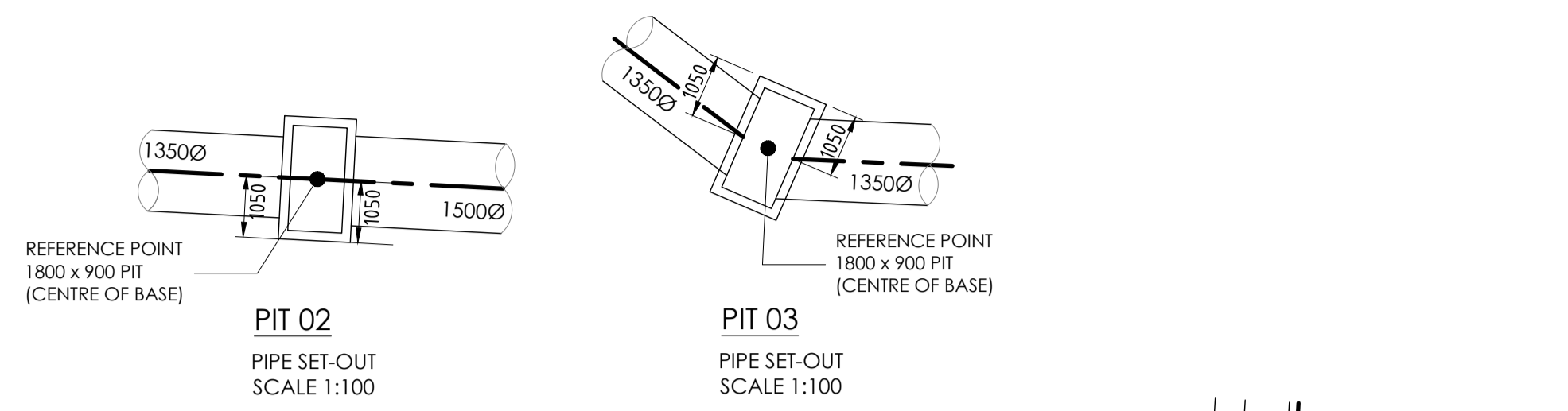
ISSUED FOR CONSTRUCTION

Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Project Number	Origin	Zone	Level	File Type	Issue	Number	Revision
15019	CJA	7C	XX	DR	C	6101	0

Drawing Title: LONG SECTIONS - STORMWATER SHEET (2 OF 3)
 Drawn By: PS
 Checked By: AX
 Drawn Scale: H1:500 V1:50 @ A1
 Date of First Issue: 20.09.20
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Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021



DENOTES FULL DEPTH CL.2 F.C.R. BACKFILL

DENOTES STRUCTURAL FILL (TYPE 2) TO TONKIN + TAYLOR SPECIFICATION

PIPE DETAILS
CAPACITY (l/sec) 159
PIPE FLOW (l/sec) 25
VELOCITY (m/sec) 1.3
SLOPE GRADE 1:73.3
SLOPE % 1.36
DATUM RL 10.9

HGL (20% AEP)	14.34	15.00
DEPTH TO INVERT	1.34	1.14
INVERT LEVEL	14.20	14.82
FINISHED SURFACE	15.54	15.96
CHAINAGE	0.00	45.43

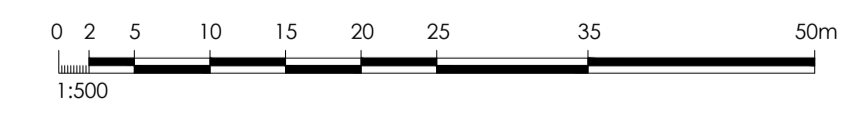
300Ø RCP CL4	183	417	257		
61	50	17			
1.8	3.1	1.6			
1:55.7	1:11.2	1:28.9			
1.79	8.92	3.46			
RL 17.1					
20.73	20.75	20.81	24.09	24.21	25.35
1.36	1.32	1.24	1.28	1.20	1.21
20.37	20.53	20.61	23.89	23.97	25.09
21.73	21.85		25.17		26.30
0.00	8.92	36.79	45.71	52.17	78.05

SCALES: HORIZONTAL 1:500 VERTICAL 1:50

Pit No.	Pit Type	Lid Width (mm)	Lid Length (mm)	Base Width (mm)	Base Length (mm)	Outlet Diameter (mm)	Outlet Invert RL (m)	Inlet Diameter (mm)	Inlet Invert RL (m)	Pit Depth (m)	Pit Lid Level (m)	Easting (m)	Northing (m)	Comment
EW	HWALL							1500	2.00	0.00	2.00	310555.49	5819197.64	MELBOURNE WATER OUTLET. REFER DRAWING C-6210
02	GJP	600	900	1800	900	1500	2.01	1350	3.05	3.67	5.68	310547.54	5819197.95	PIT DETAIL TO BCC S205. HAUNCH TO VICROADS SD1023
03	JP	600	900	1800	900	1350	3.75	1350	5.14	3.61	7.36	310498.36	5819199.98	PIT DETAIL TO BCC S205. HAUNCH TO VICROADS SD1023 BOLT DOWN LID
03A	JP	600	900	1800	900	1350	7.79	1350	7.87	3.13	10.92	310464.05	5819225.99	PIT DETAIL TO BCC S205. HAUNCH TO VICROADS SD1023
04	GSIPI	900	2530	1700	2530	1350	10.00	300	13.60	4.84	14.84	310436.12	5819246.62	MAJOR FLOW COLLECTION PIT. REFER DRAWING C-6200
								1200	12.00					
05	JP	600	900	1800	900	1200	13.07	1200	13.15	2.89	15.96	310436.16	5819185.73	PIT DETAIL TO BCC S205. HAUNCH TO VICROADS SD1023
11	SEP	600	900	900	900	600	20.07	300	20.37	1.66	21.73	310344.72	5819186.99	PIT DETAIL TO BCC S200. HAUNCH TO BCC S255
								525	20.15					
12	SEP	600	900	900	900	525	23.67	525	23.75	1.51	25.18	310344.57	5819225.15	PIT DETAIL TO BCC S200. HAUNCH TO BCC S255
13	JP	600	900	900	900	525	25.18	525	25.26	1.50	26.68	310341.81	5819268.58	PIT DETAIL TO BCC S205. HAUNCH TO BCC S255
								300	25.41					
14	JP	600	900	600	900	300	25.63	300	25.71	1.31	26.94	310351.24	5819276.60	PIT DETAIL TO BCC S205
15	JP	600	900	600	900	300	26.19			1.23	27.42	310352.59	5819290.78	PIT DETAIL TO BCC S205
16	CAP					1200	13.34			2.22	15.56	310430.87	5819292.40	
17	JP	600	900	600	900	300	14.12	300	14.20	1.42	15.54	310425.85	5819245.68	PIT DETAIL TO BCC S205
								300	14.20					
18	SEP	600	900	600	900	300	14.43	300	14.51	1.52	15.95	310426.78	5819211.40	PIT DETAIL TO BCC S200
19	JP	600	900	600	600	300	14.65			1.21	15.86	310425.96	5819190.67	PIT DETAIL TO BCC S205
20	JP	600	900	600	900	300	14.82			1.14	15.96	310420.98	5819290.85	PIT DETAIL TO BCC S205
21	SEP	600	900	600	900	300	20.53	300	20.61	1.32	21.85	310353.45	5819188.81	PIT DETAIL TO BCC S200
22	SEP	600	900	600	900	300	23.89	300	23.97	1.28	25.17	310353.21	5819225.60	PIT DETAIL TO BCC S200
23	JP	600	900	600	900	300	25.09			1.21	26.30	310351.08	5819257.88	PIT DETAIL TO BCC S205
P1	JP	600	900	600	900	150	14.85	150	16.60	2.51	17.36	310417.76	5819256.82	PRIVATE PIT - PIT DETAIL TO BCC S205
P2	JP	600	900	600	900	150	17.20			2.08	19.28	310392.08	5819257.13	PRIVATE PIT - PIT DETAIL TO BCC S205

PIT TYPE KEY
JP = JUNCTION PIT
GJP = GRATED JUNCTION PIT
SEP = SIDE ENTRY PIT
GSEP = GRATED SIDE ENTRY PIT
GSIPI = GRATED SURFACE INLET PIT

NOTES:
1. ALL SETOUT POINTS (COORDINATES) ARE TO CENTRE OF PIT BASE OR AS SHOWN
2. PIPES ARE ALIGNED TO CENTER OF ALL PIT BASES EXCEPT PITS 01, 02, 03 & 05
3. STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 900mm DEEP. PROVIDE IN ACCORDANCE WITH BCC STANDARD DETAIL S275
4. ALL DRAINAGE WORKS TO BE TO BRIMBANK CITY COUNCIL SPECIFICATIONS
5. ALL PIT COVERS IN ROAD RESERVE TO BE HEAVY DUTY GATIC (CLASS 'D')



Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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Project: RIVER VALLEY - STAGE 7C
Drawing Title: LONG SECTIONS - STORMWATER SHEET (3 OF 3)

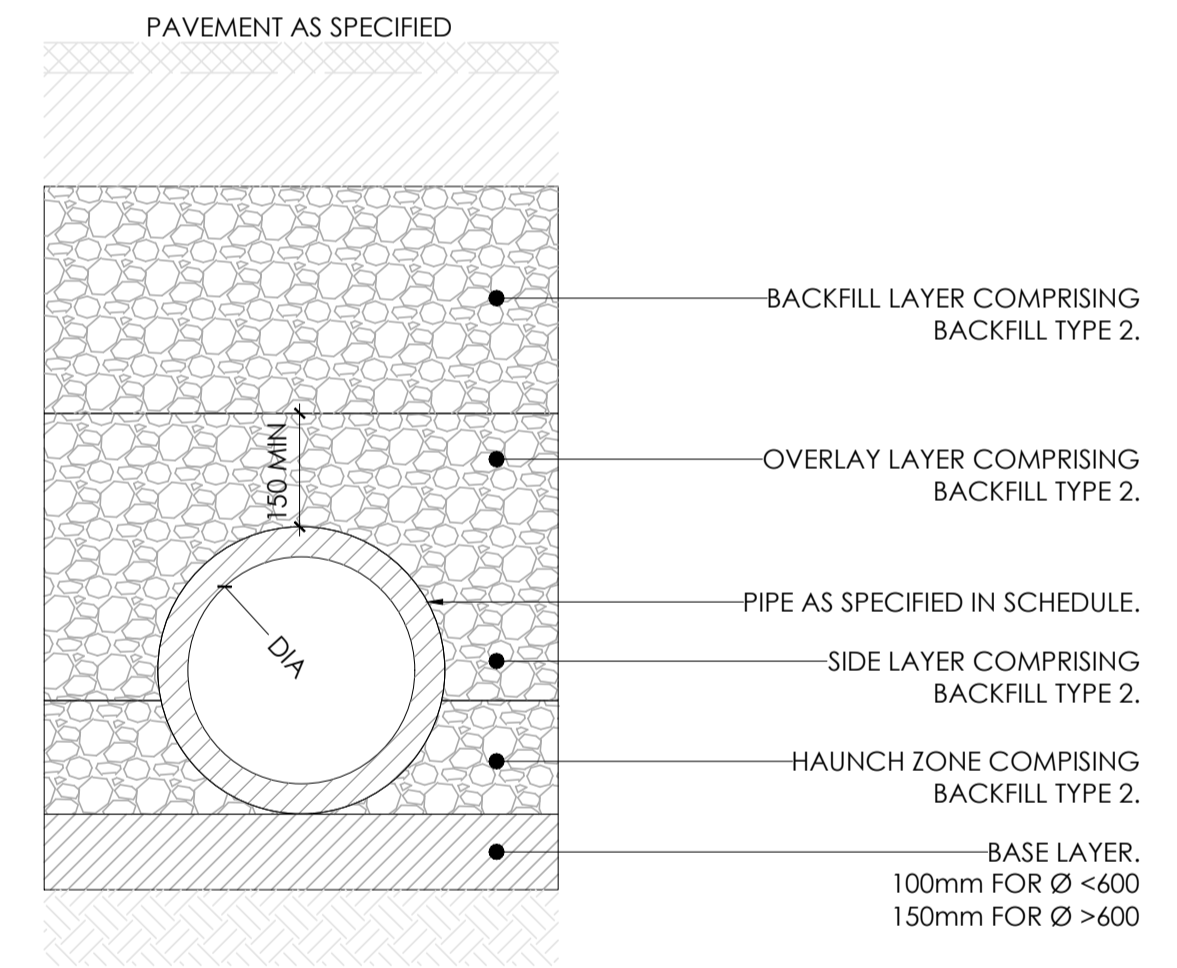
ISSUED FOR CONSTRUCTION

Project Number	Origin	Zone	Level	Pit Type	Base	Number	Revisions
15019	CJA	7C	XX	DR	C	6102	0

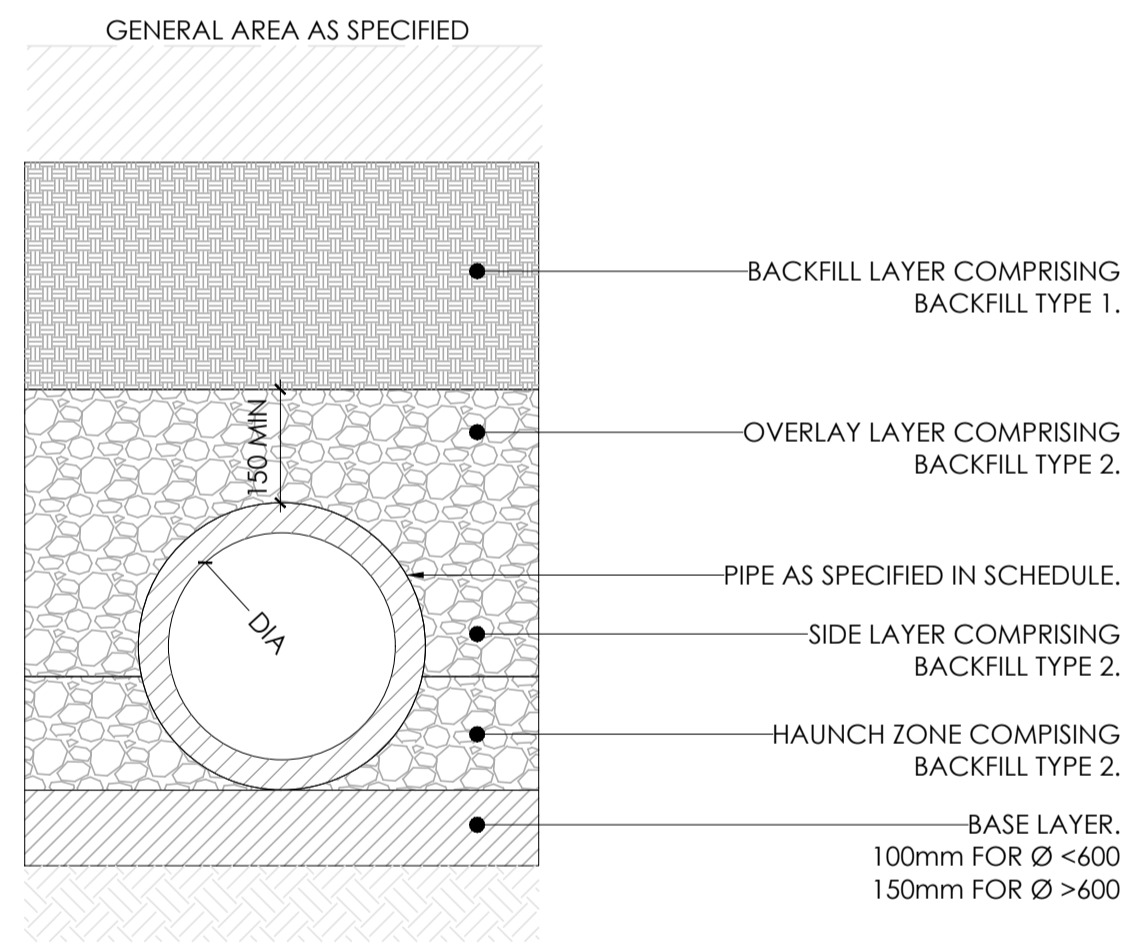
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PIPE BEDDING SPECIFICATION		
LAYER	MATERIAL SPECIFICATION	COMPACTION SPECIFICATION
BACKFILL (TYPE 1)	SITE WON FILL MATERIAL.	COMPACTED TO ACHIEVE A MINIMUM DENSITY OF ADJACENT MATERIAL. TO BE COMPACTED IN MAX 150mm LAYERS.
BACKFILL (TYPE 2)	SIZE 20mm CLASS 3 CRUSHED ROCK COMPLYING WITH VICROADS SPECIFICATION SECTION 812.	COMPACTED TO ACHIEVE A MINIMUM 98% (MODIFIED) IN ACCORDANCE WITH AS1289.5.2.1. TO BE COMPACTED IN MAX 150mm LAYERS.
BASE LAYER	SIZE 20mm CLASS 2 CRUSHED ROCK COMPLYING WITH VICROADS SPECIFICATION SECTION 812.	COMPACTED TO ACHIEVE A MINIMUM 98% (MODIFIED) IN ACCORDANCE WITH AS1289.5.2.1. TO BE COMPACTED IN MAX 150mm LAYERS.

BRIMBANK CITY COUNCIL
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Vikramt 01 Oct 2021



PT.01 TYPICAL PIPE TRENCH (UNDER PAVEMENTS)
SCALE 1:10



PT.02 TYPICAL PIPE TRENCH (GENERAL AREAS)
SCALE 1:10



0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK
Revised	Date	Reason	Drawn	Checked

ISSUED FOR CONSTRUCTION



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MELBOURNE
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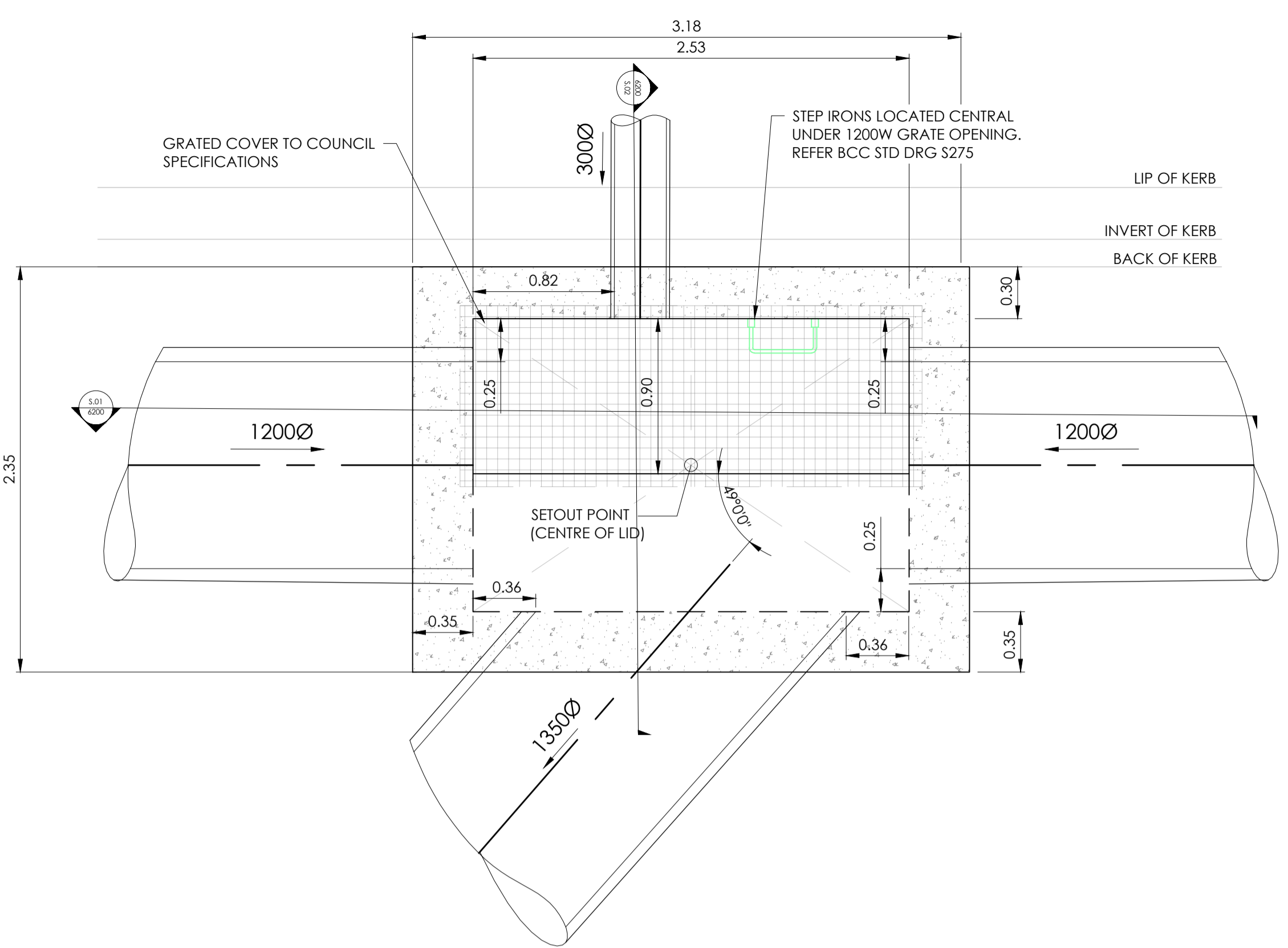
Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Drawing Title: BEDDING DETAILS - STORMWATER SHEET (1 OF 1)
Issued for Construction
Drawn By: PS
Checked By: AX
Drawn Scale: AS SHOWN @ A1
Date of First Issue: 09.07.21

Project Number	Origin	Zone	Level	File Type	Issue	Number	Revision
15019	CJA	7C	XX	DR	C	6103	0

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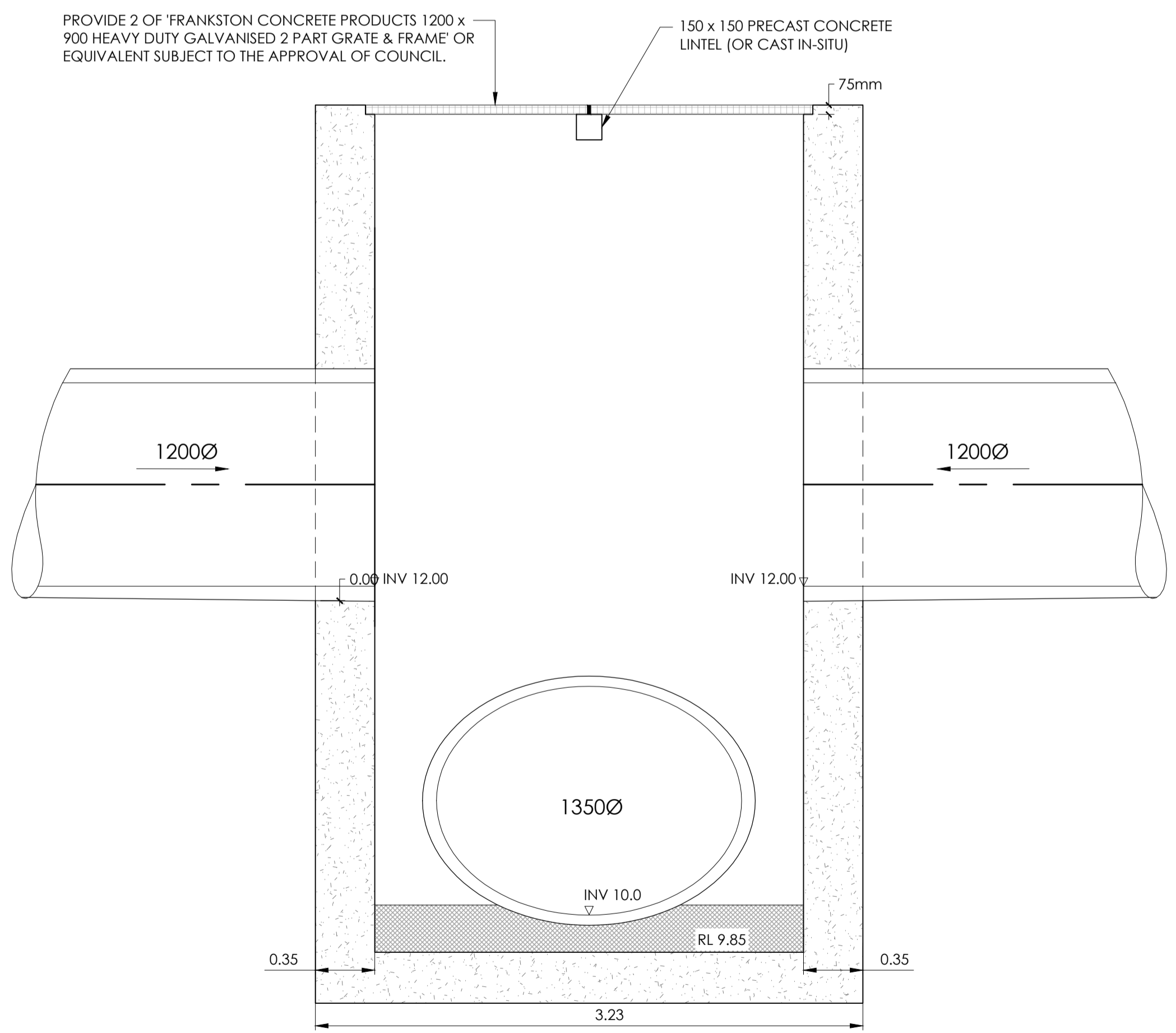
- 1. The client acknowledges that the drawings are prepared by the contractor and are not to be used for any other purpose without the written consent of the contractor. The contractor shall be responsible for the management of all risks associated with the construction activities shown on the drawings.
- 2. The drawings shall not be used in part and must be used in conjunction with all applicable specifications, notes, design, details and all other drawings as appropriate.
- 3. The contractor shall be responsible for the management of all risks associated with the construction activities shown on the drawings. The contractor shall be responsible for the management of all risks associated with the construction activities shown on the drawings.



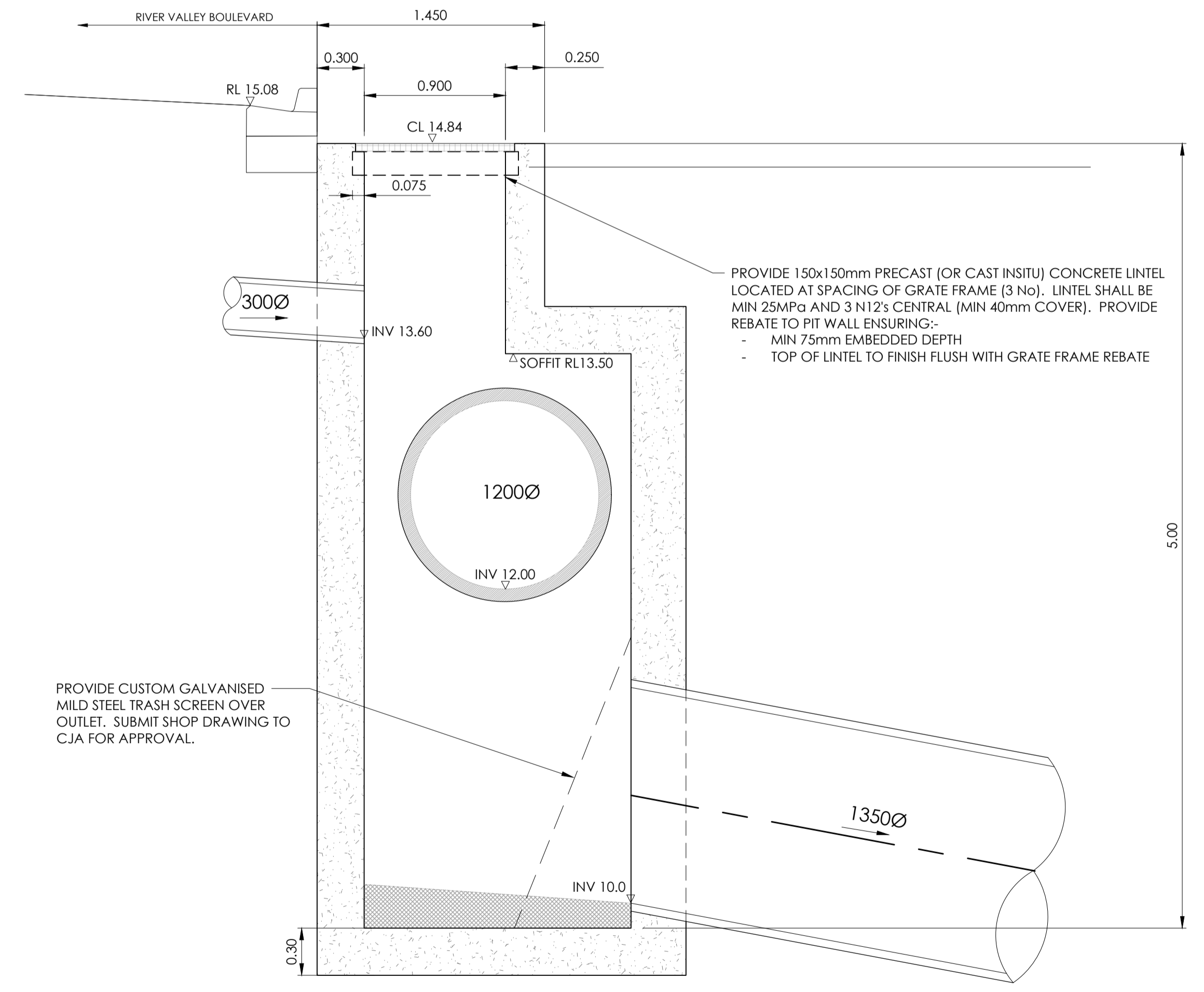
RIVER VALLEY BOULEVARD SAG PIT 04 - PLAN VIEW
SCALE 1:25

NOTE: REFER TO MELBOURNE WATER STANDARD DRAWINGS 7251/08/410 & 411 FOR REINFORCEMENT AND BENCHING REQUIREMENTS.

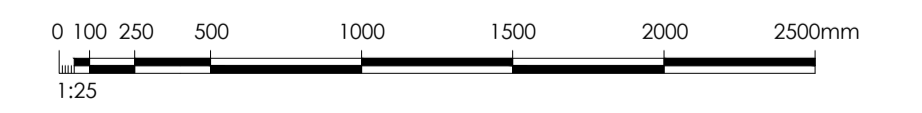
BRIMBANK CITY COUNCIL
Engineering Services
APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021



S.01 RIVER VALLEY BOULEVARD SAG PIT - SECTION VIEW
SCALE 1:25



S.02 RIVER VALLEY BOULEVARD SAG PIT - SECTION VIEW
SCALE 1:25



Revision	Date	By	Reason	Drawn	Checked
0	30/09/21	AK	ISSUED FOR CONSTRUCTION	JSS	AK

ISSUED FOR CONSTRUCTION

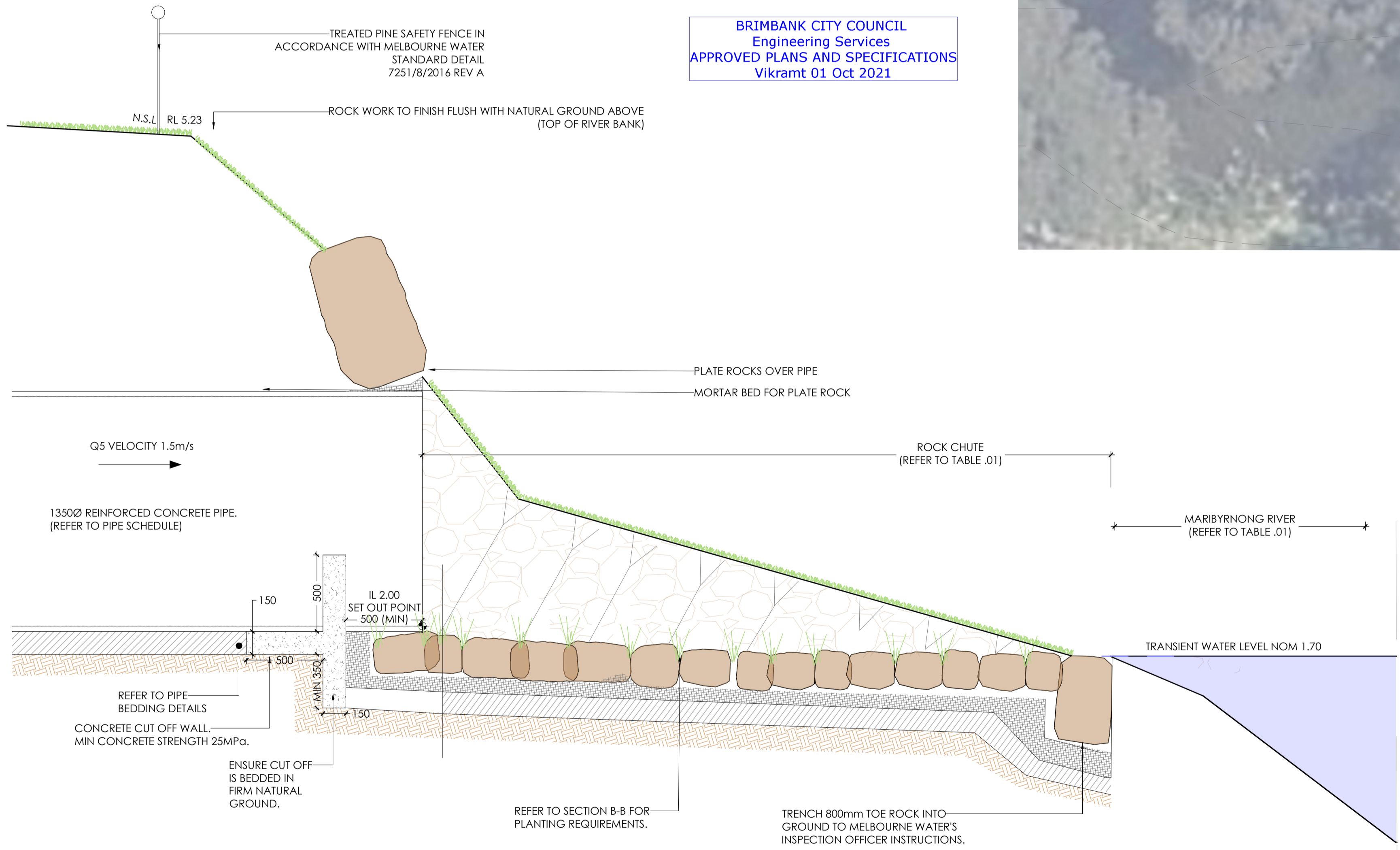
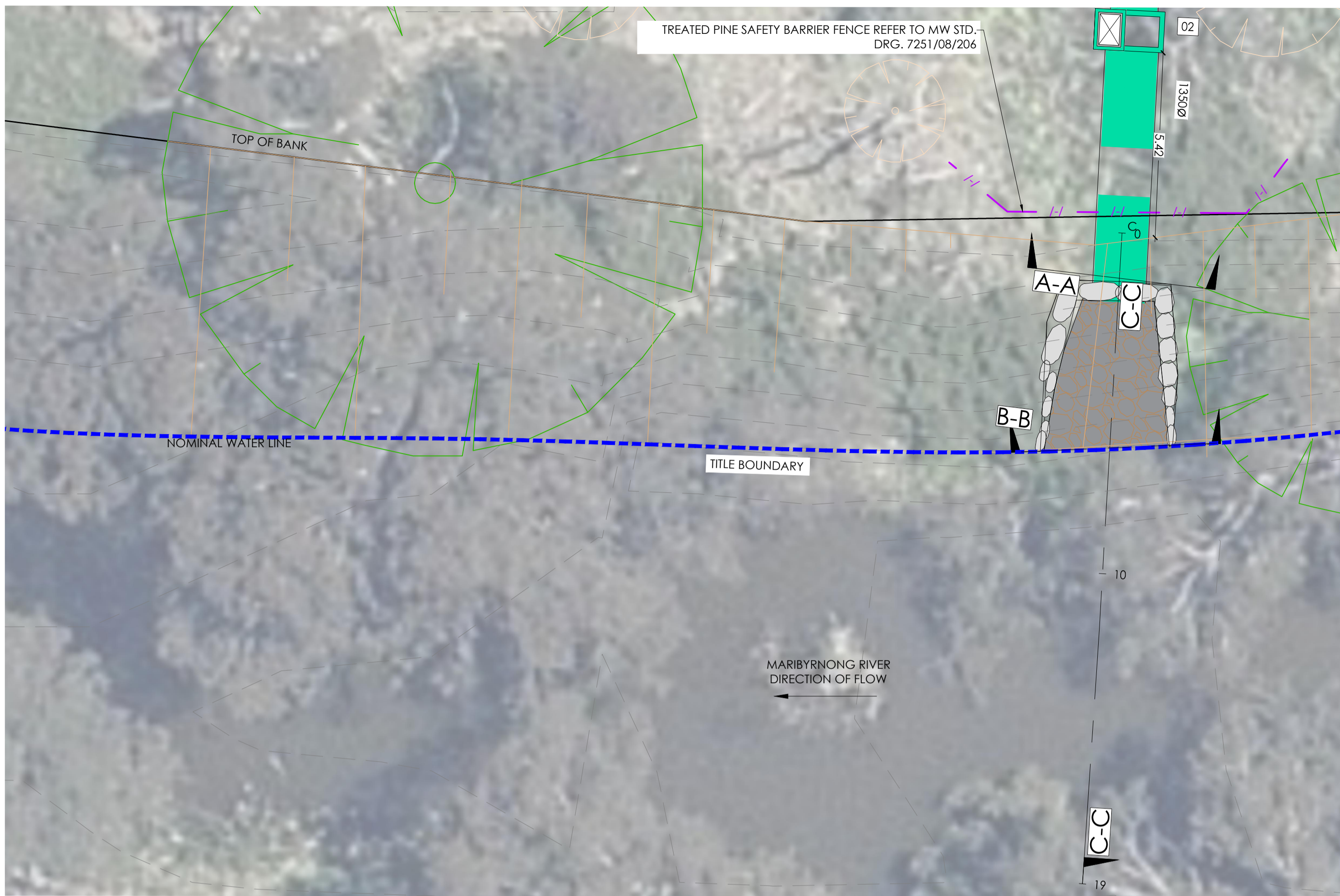


Project: RIVER VALLEY - STAGE 7C		Drawing Title: OUTFALL SAG PIT DETAIL	
Client: YOURLAND		Date of First Issue: 26/02/21	
Issued for Construction		Drawn By: AK	Checked By: AK
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
File Type: DR	Rev: C	Number: 6200	Revision: 0

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TABLE.01 - WATERCOURSE OUTLET DIMENSIONS		
ITEM	DIMENSION (LENGTH)	MATERIAL SPECIFICATION
PRIMARY ROCK CHUTE	6.0m (MINIMUM)	400ø (D50/D90 = 0.8) ROCK IN 50-150mm GRADED SHOT ROCK BEDDING (MIN 150mm DEPTH) ON 150mm MIN COMPACTED THICKNESS CLASS 3 CRUSHED ROCK, COMPACTED TO ACHIEVE A MINIMUM 98% (MODIFIED) IN ACCORDANCE WITH AS1289.5.2.1.
ROCK APRON	TO SUIT SITE CONDITIONS	400ø (D50/D90 = 0.8) ROCK IN 50-150mm GRADED SHOT ROCK BEDDING (MIN 150mm DEPTH) ON 150mm MIN COMPACTED THICKNESS CLASS 3 CRUSHED ROCK, COMPACTED TO ACHIEVE A MINIMUM 98% (MODIFIED) IN ACCORDANCE WITH AS1289.5.2.1.

NOTES
 PRIOR TO THE COMMENCEMENT OF WORKS ON MELBOURNE WATER'S ASSET, THE CONTRACTOR MUST APPLY FOR INSPECTION VIA THE LINK BELOW FOR APPROVAL/PERMITS TO WORK ON LIVE ASSETS). PENALTIES APPLY FOR UNAUTHORISED WORKS.
[HTTPS://WWW.MELBOURNEWATER.COM.AU/PLANNING-AND-BUILDING/APPLY-TO-BUILD-OR-DEVELOP/INSPECTION-WORK](https://www.melbournewater.com.au/planning-and-building/apply-to-build-or-develop/inspection-work)



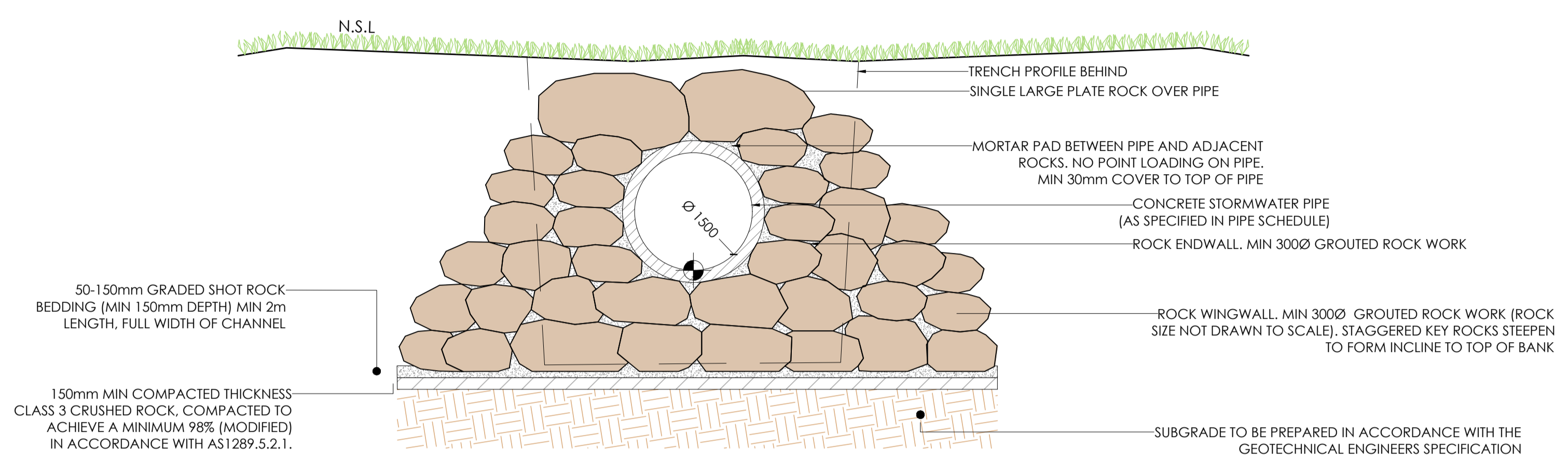
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SO.01 SO.01 - WATERCOURSE OUTLET DETAIL- L/S C-C
 SCALE 1:20

- NOTES:
- CONTRACTOR TO PROVIDE ROCKWORK SAMPLES FOR CJA APPROVAL PRIOR TO INSTALLATION.

Revision	Date	By	Check
0	30.09.21	ISSUED FOR CONSTRUCTION	BM AX

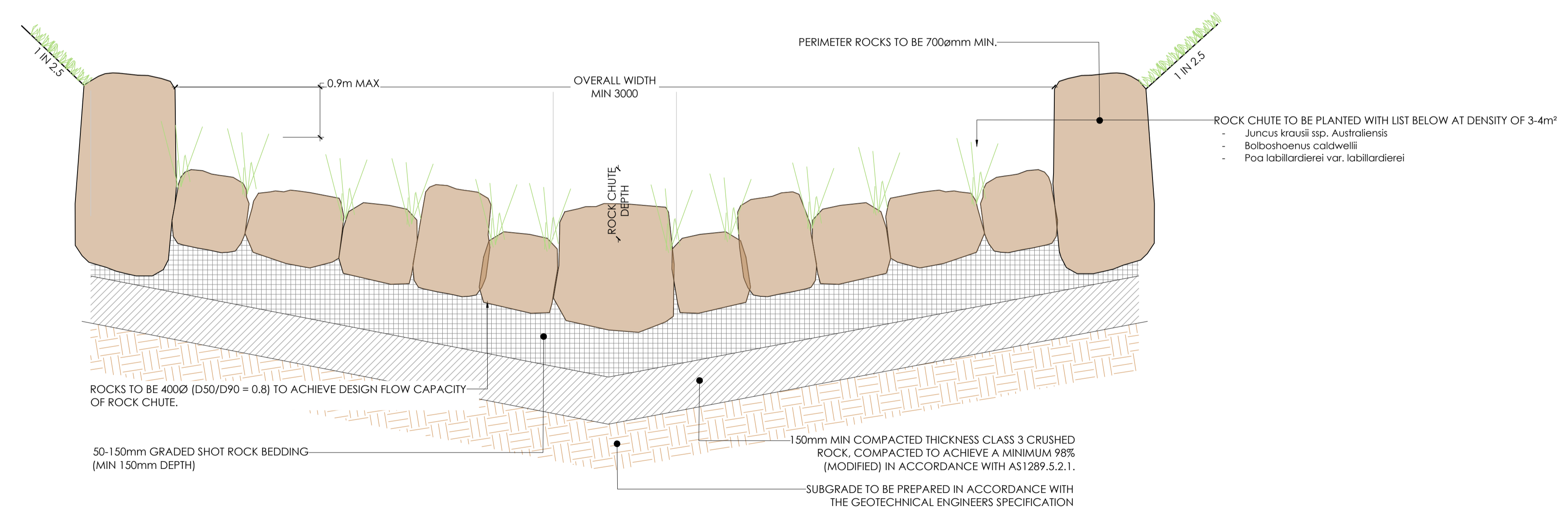
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SO.02 SO.02 - WATERCOURSE OUTLET DETAIL - SECTION A-A
SCALE 1:50

- NOTES:
- CONTRACTOR TO PROVIDE ROCKWORK SAMPLES FOR CJA APPROVAL PRIOR TO INSTALLATION.

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SW.01 SW.01 - ROCK CHUTE DETAIL - SECTION B-B
SCALE 1:10

Revision	Date	By	Check
0	30.09.21	ISSUED FOR CONSTRUCTION	AS

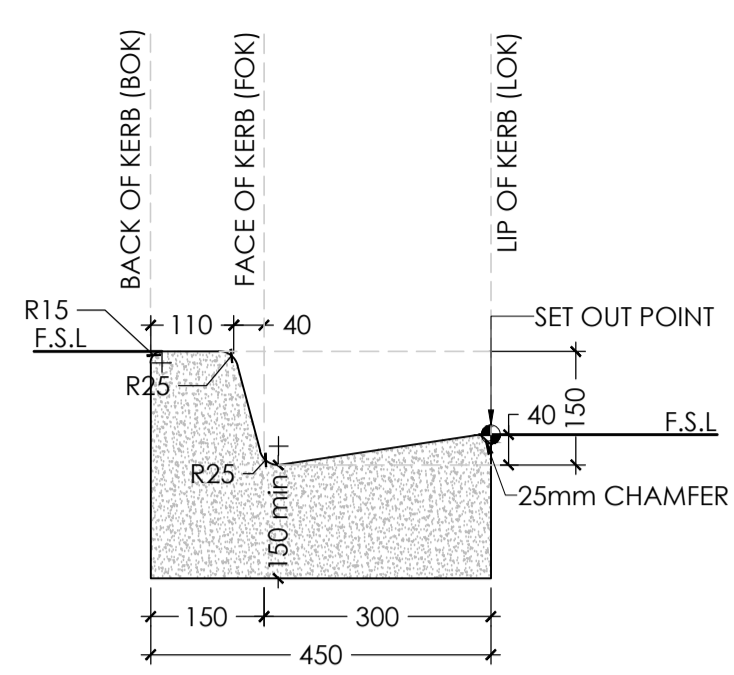
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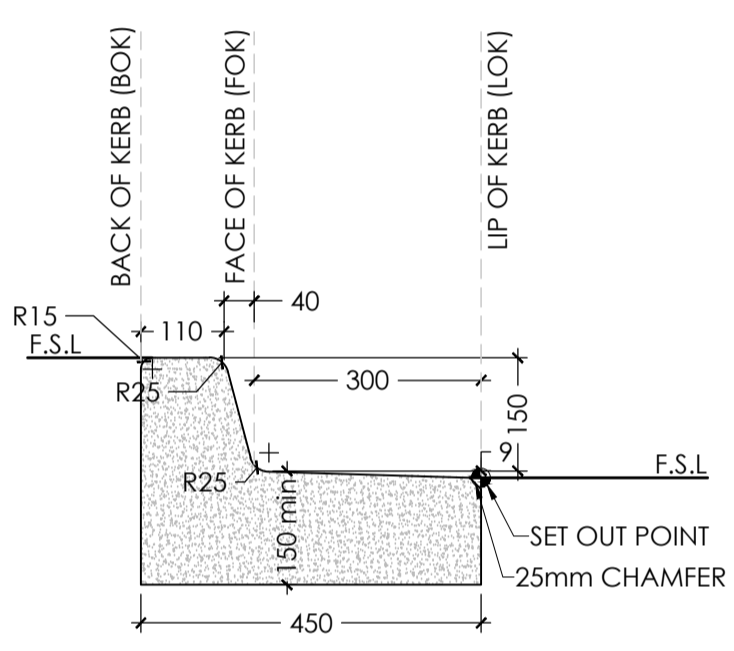
Project: RIVER VALLEY - STAGE 7C		Drawing Title: STORMWATER OUTFALL CONNECTION SHEET 2 OF 2	
Client: YOURLAND		Revision: 0	
Issued for Construction		Drawn By: BM	Checked By: AX
Project Number: 15019	Origin: CJA	Zone: XX	Level: XX
File Type: DR	Issue: C	Number: 6211	Revision: 0

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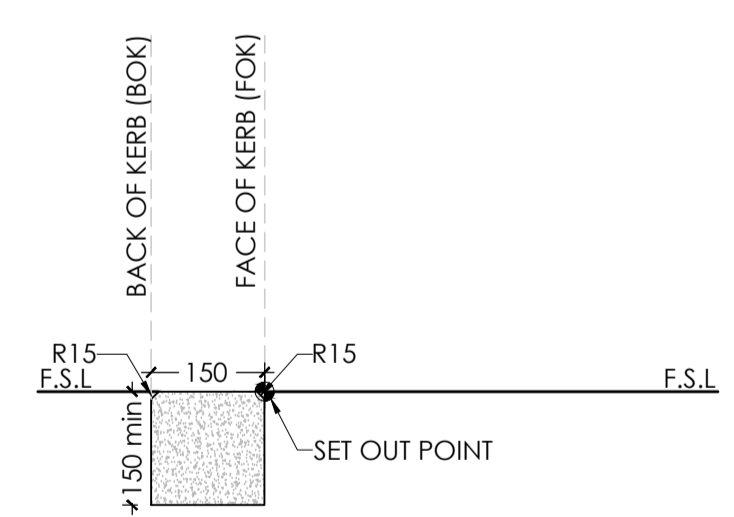
KV.02 KV.02 - CONCRETE BARRIER KERB (TYPE B2 K&C) DETAIL
SCALE 1:10

- NOTE:**
- PROVIDE EXPANSION JOINTS AT MAX 12m - CENTRES.
 - PROVIDE TOOL JOINTS AT MAX 3m CENTRES.
 - KERB TO BE MINIMUM CLASS N25 STANDARD STRENGTH GRADE
 - CONCRETE IN ACCORDANCE WITH AS 1379.
 - IN ACCORDANCE WITH BCC STANDARD DWG S300.**



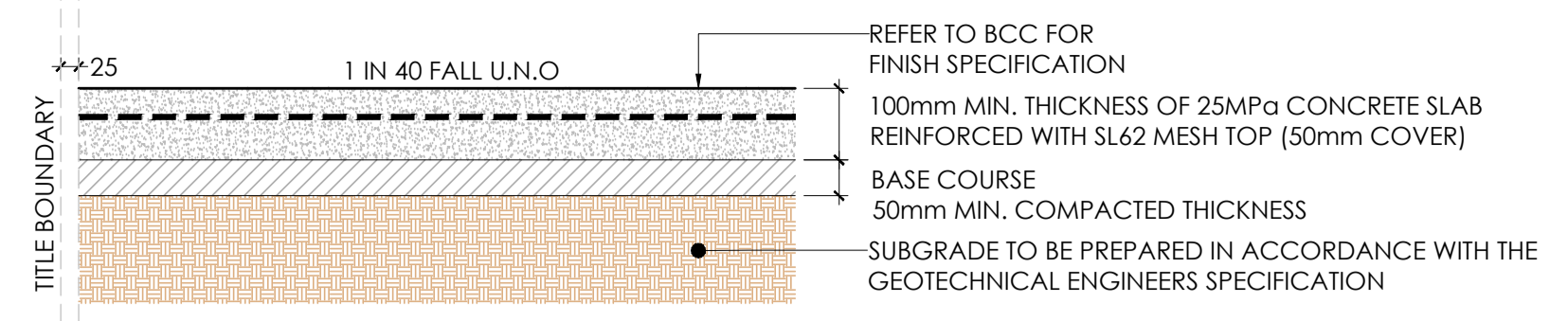
KV.03 KV.03 - CONCRETE BARRIER KERB (TYPE B3) DETAIL
SCALE 1:10

- NOTE:**
- PROVIDE EXPANSION JOINTS AT MAX 12m - CENTRES.
 - PROVIDE TOOL JOINTS AT MAX 3m CENTRES.
 - KERB TO BE MINIMUM CLASS N25 STANDARD STRENGTH GRADE
 - CONCRETE IN ACCORDANCE WITH AS 1379.
 - IN ACCORDANCE WITH BCC STANDARD DWG S300.**



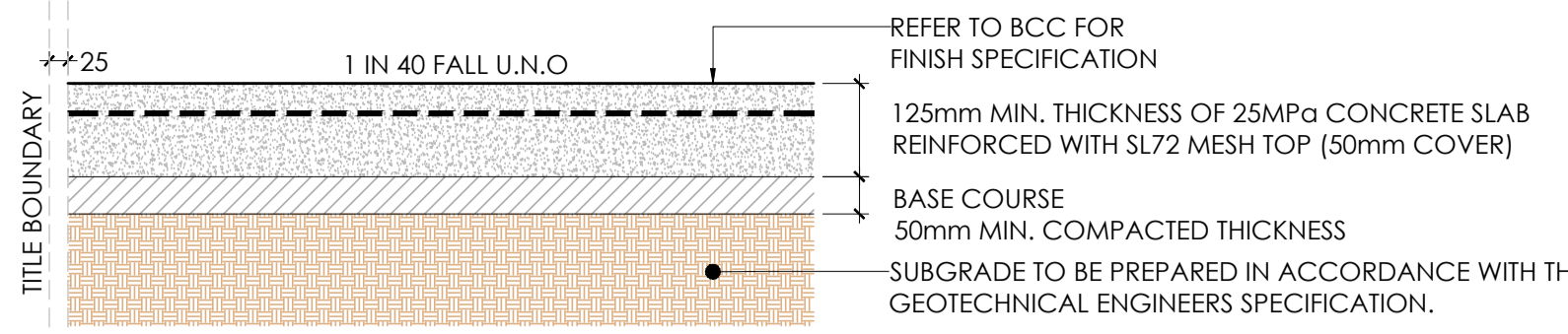
KV.04 KV.04 - CONCRETE EDGING KERB (TYPE ES) DETAIL
SCALE 1:10

- NOTE:**
- PROVIDE EXPANSION JOINTS AT MAX 12m - CENTRES.
 - PROVIDE TOOL JOINTS AT MAX 3m CENTRES.
 - KERB TO BE MINIMUM CLASS N25 STANDARD STRENGTH GRADE
 - CONCRETE IN ACCORDANCE WITH AS 1379.
 - IN ACCORDANCE WITH BCC STANDARD DWG S300.**



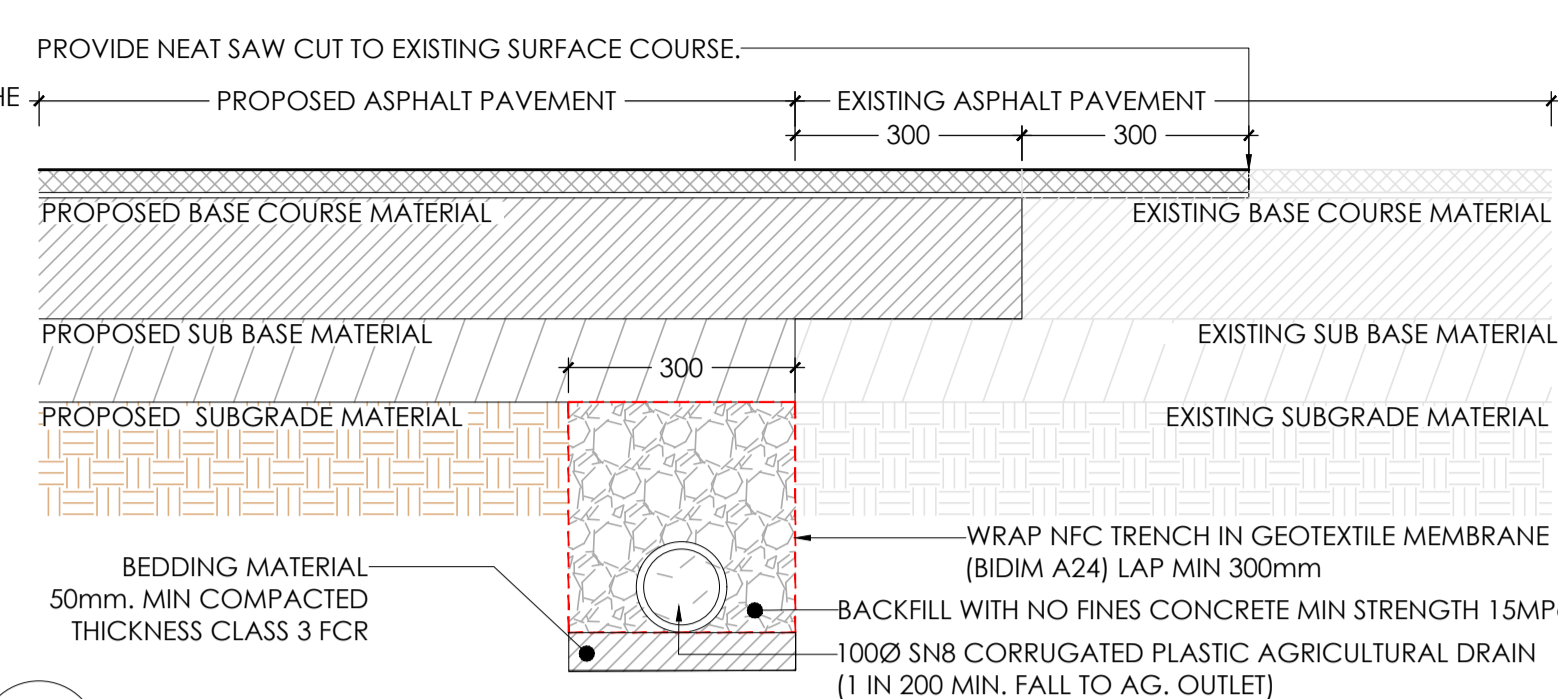
CF.01 CF.01 - CONCRETE FOOTPATH PAVEMENT DETAIL
SCALE 1:10

- PAVEMENT DESIGN BASED ON THE FOLLOWING ASSUMPTIONS:
- IN ACCORDANCE WITH BCC STANDARD DWG S350**

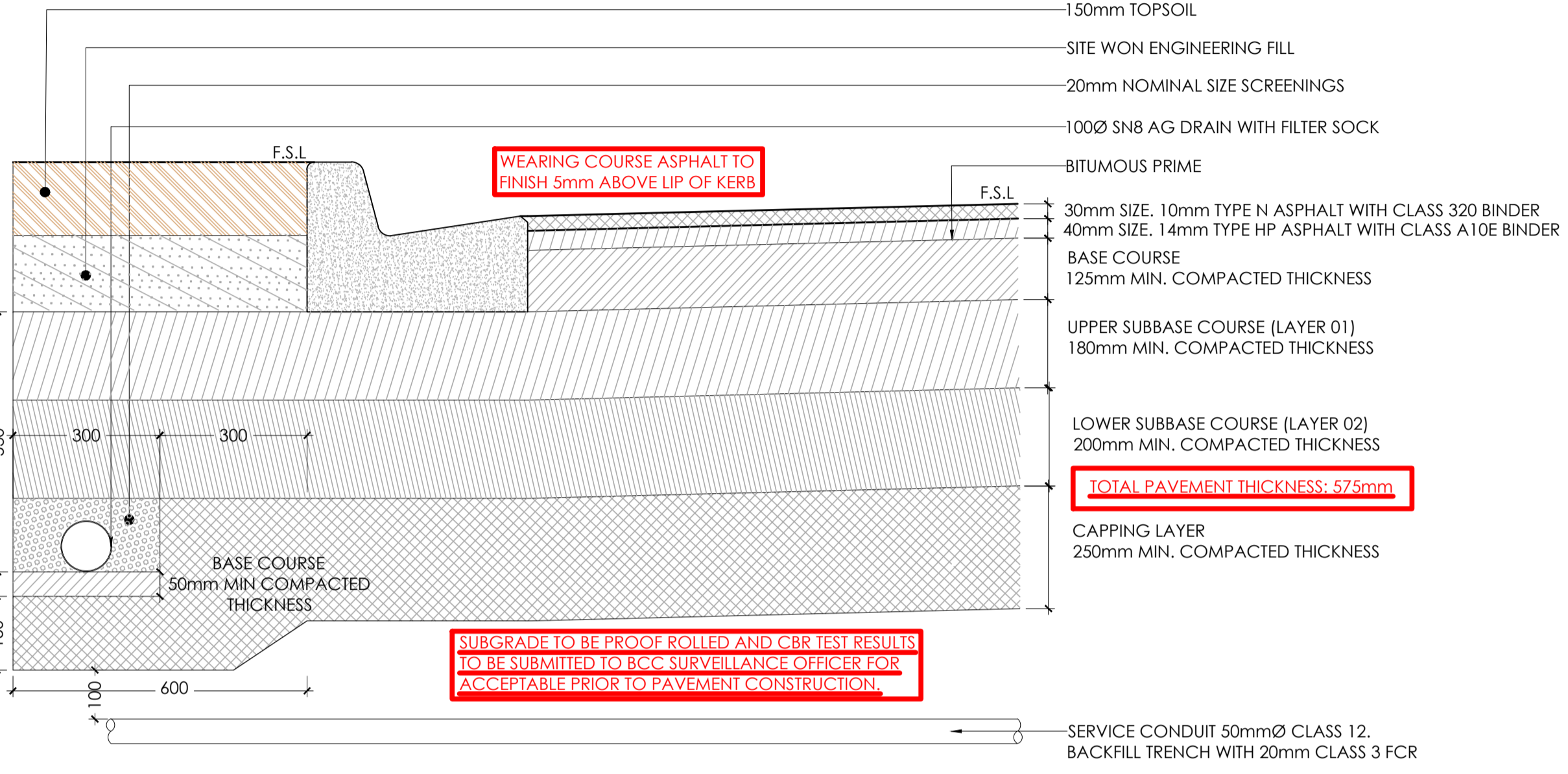


CF.02 CF.02 - CONCRETE SHARED PATH PAVEMENT DETAIL
SCALE 1:10

- PAVEMENT DESIGN BASED ON THE FOLLOWING ASSUMPTIONS:
- IN ACCORDANCE WITH BCC STANDARD DWG S350**



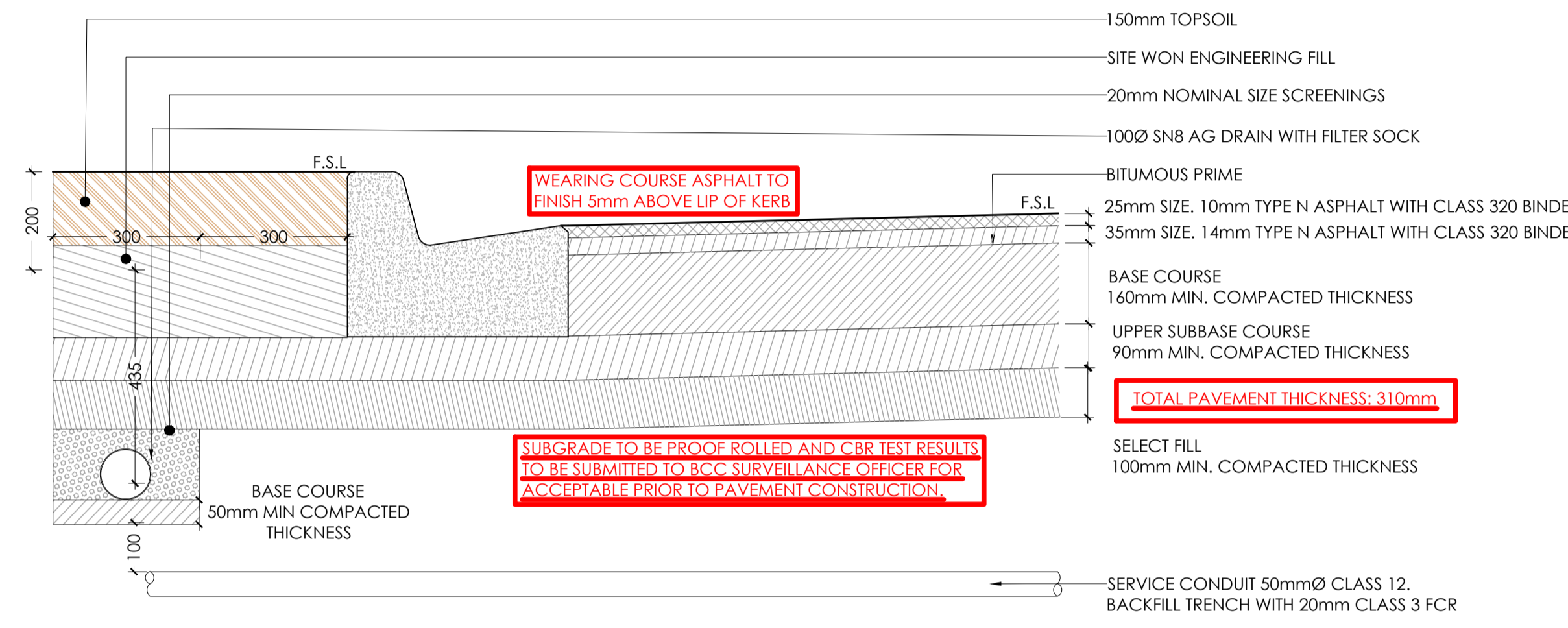
PI.02 PI.02 - ASPHALT PAVEMENT TIE INTO EXISTING ASPHALT PAVEMENT DETAIL
SCALE 1:10



AP.01 AP.01 - RIVER VALLEY BLVD - ASPHALT TRAFFICKABLE PAVEMENT DETAIL
SCALE 1:10

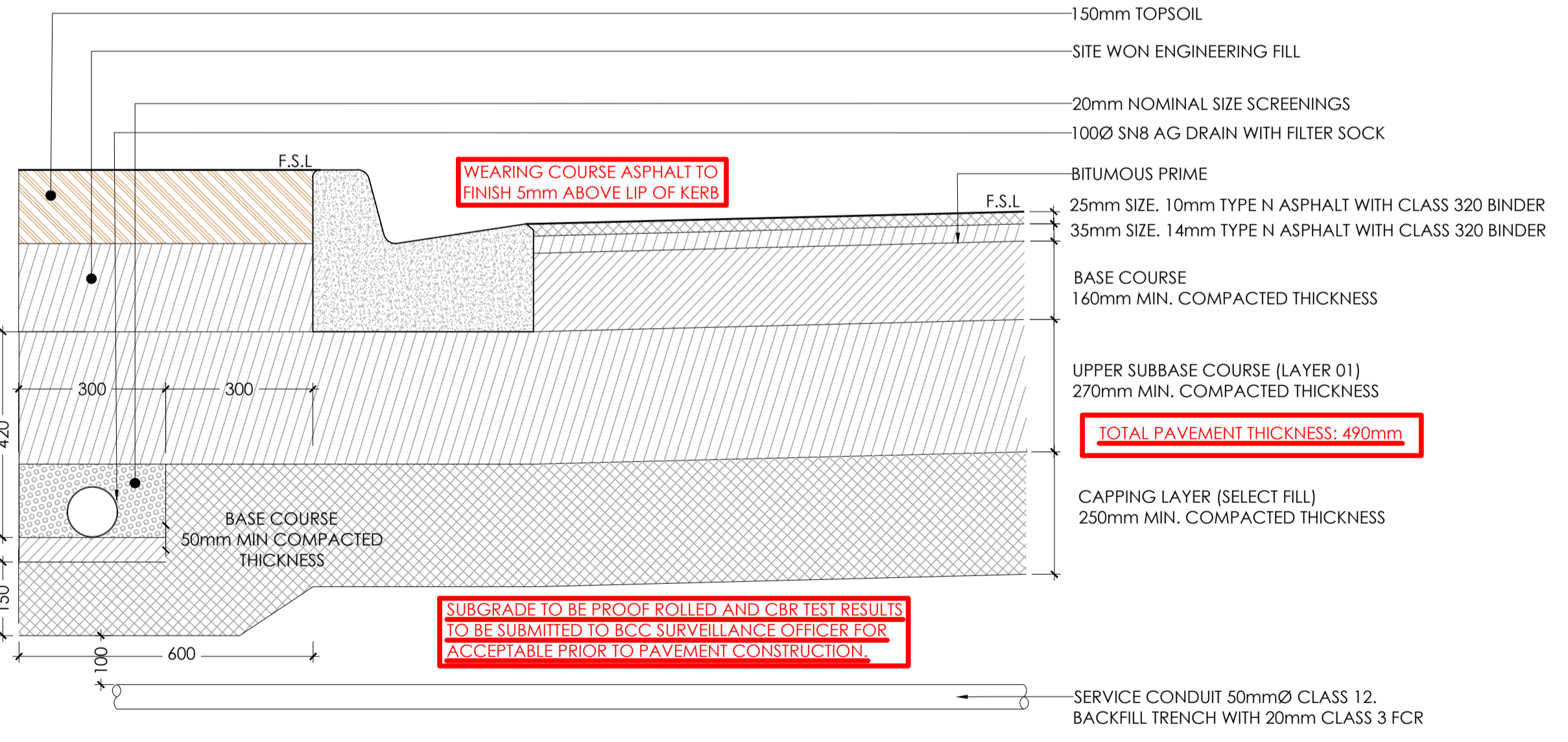
- PAVEMENT DESIGN IS BASED ON THE THE GEOTECHNICAL ENGINEERS DESIGN:
- REPORT REF: TONKIN AND TAYLOR 100780.R02.v4 DATED JULY 2021.
 - CBR VALUE = 1.0% (AS STATED BY GEOTECHNICAL ENGINEER)
 - DESIGN LOADING = 2.4x10⁸ HVAG (AS STATED BY GEOTECHNICAL ENGINEER)
 - FOUNDED ON CLAY SUBGRADE**

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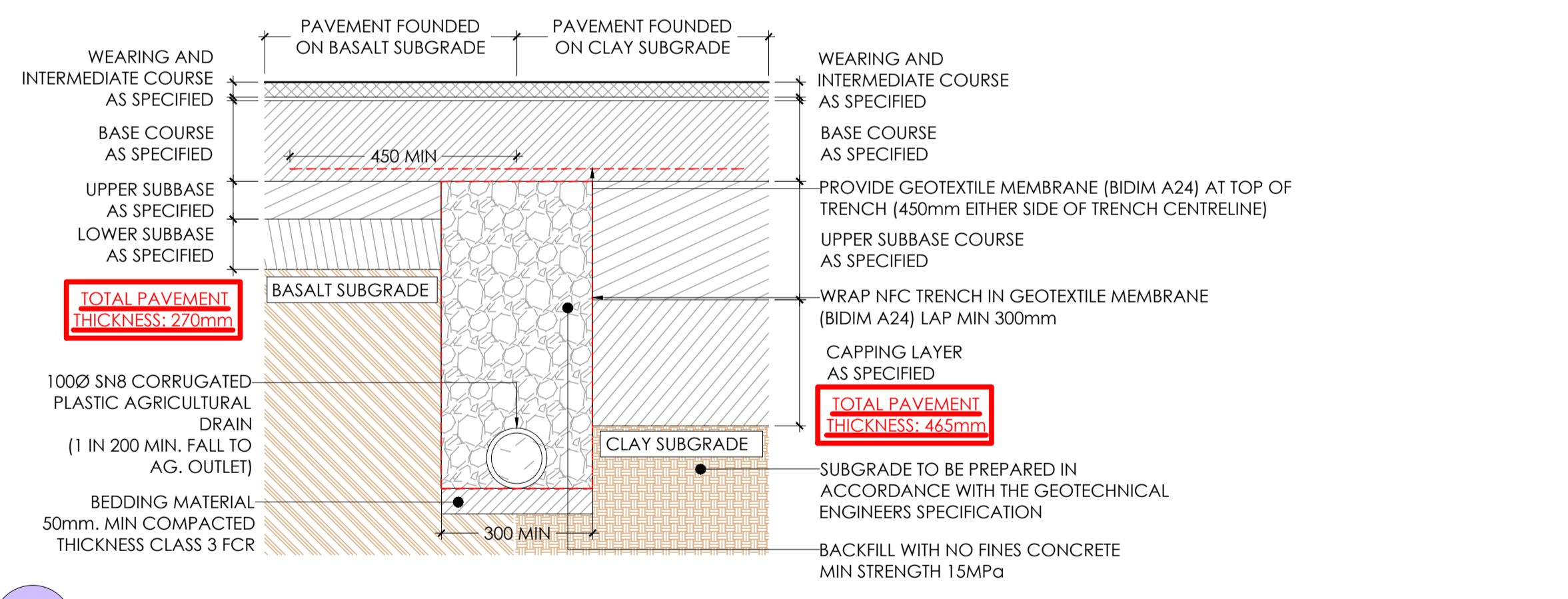
AP.03 AP.03 - PERENNIAL DRIVE - ASPHALT TRAFFICKABLE PAVEMENT DETAIL 02
SCALE 1:10

- PAVEMENT DESIGN IS BASED ON THE THE GEOTECHNICAL ENGINEERS DESIGN:
- REPORT REF: TONKIN AND TAYLOR 100780.R02.v4 DATED JULY 2021.
 - CBR VALUE = 15% (AS STATED BY GEOTECHNICAL ENGINEER)
 - DESIGN LOADING = 5.2x10⁸ HVAG (AS STATED BY GEOTECHNICAL ENGINEER)
 - FOUNDED ON WEATHERED BASALT SUBGRADE**



AP.02 AP.02 - PERENNIAL DRIVE - ASPHALT TRAFFICKABLE PAVEMENT DETAIL 01
SCALE 1:10

- PAVEMENT DESIGN IS BASED ON THE THE GEOTECHNICAL ENGINEERS DESIGN:
- REPORT REF: TONKIN AND TAYLOR 100780.R02.v4 DATED JULY 2021.
 - CBR VALUE = 1% (AS STATED BY GEOTECHNICAL ENGINEER)
 - DESIGN LOADING = 5.2x10⁸ HVAG (AS STATED BY GEOTECHNICAL ENGINEER)
 - FOUNDED ON CLAY SUBGRADE**



PI.01 PI.01 - ASPHALT PAVEMENT TRANSITION DETAIL
SCALE 1:10

LAYER	MATERIAL SPECIFICATION	COMPACTION SPECIFICATION
BASE COURSE	SIZE 20mm CLASS 2 CRUSHED ROCK COMPLYING WITH VICROADS SPECIFICATION SECTION 812.	COMPACTED TO ACHIEVE A MINIMUM 98% (MODIFIED) IN ACCORDANCE WITH AS1289.5.2.1.
UPPER & LOWER SUBBASE COURSE	SIZE 20mm CLASS 3 CRUSHED ROCK COMPLYING WITH VICROADS SPECIFICATION SECTION 812.	COMPACTED TO ACHIEVE A MINIMUM 98% (MODIFIED) IN ACCORDANCE WITH AS1289.5.2.1.
SELECT FILL	SIZE 40mm CLASS 4 CRUSHED ROCK COMPLYING WITH VICROADS SPECIFICATION SECTION 812.	COMPACTED TO ACHIEVE A MINIMUM 98% (STANDARD) IN ACCORDANCE WITH AS1289.5.1.1.
CAPPING LAYER	250mm SELECT FILL OR STABILISED CLAY MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR >7%, SWELL <1.5%, PERMEABILITY K < 5x10 ⁻⁹ m/s [5x10 ⁻⁷ cm/s]	COMPACTED TO ACHIEVE A MINIMUM 98% (STANDARD) IN ACCORDANCE WITH AS1289.5.1.1.

Note for Contractors
The works described on this drawing must be undertaken by competent Contractors with an appropriate level of experience who have prepared appropriate Safe Work Method Statements (SWMS) relating to these works. The contractor is responsible for the management of all risks associated with the construction activities stated on this drawing.

This drawing should not be issued in part and must be read in conjunction with all appropriate specifications, notes pages, details and authority drawings as appropriate.

Deal before you dig. BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

NOTE:
T&T GEOTECHNICAL ENGINEER TO BE NOTIFIED FOR INSPECTION AND ADVICE ON PAVEMENT WHEN BASALT ROCK LAYER OR BOULDER IS ENCOUNTERED AT THE SUBGRADE

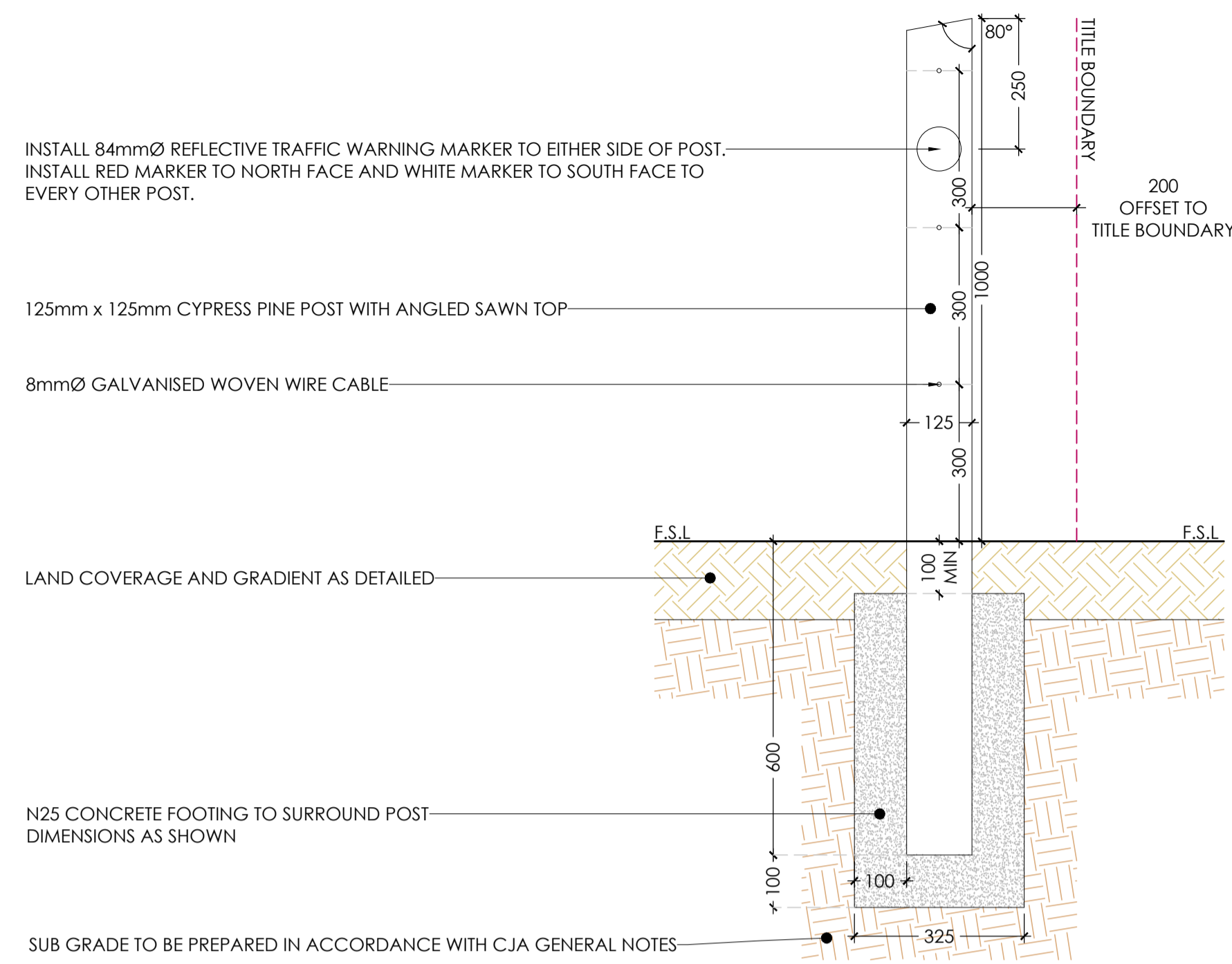
NOTE: PAVEMENT DESIGN IN ACCORDANCE WITH TONKIN & TAYLOR GEOTECHNICAL REPORT #100780.R02.v4 (JULY 2021)



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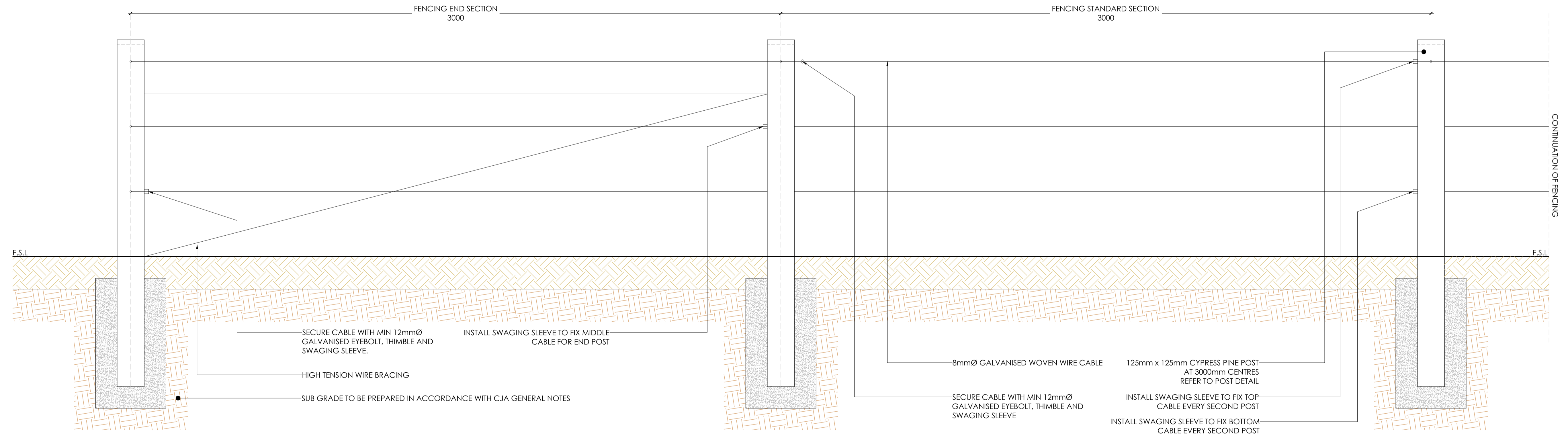
Project: RIVER VALLEY - STAGE 7C		Drawing Title: CONSTRUCTION DETAILS PAVEMENT AND KERBS	
Client: YOURLAND		Date of first issue: 31.03.21	
Drawn By: AK	Checked By: AK	Drawn Scale: AS SHOWN @ A1	Date of issue: 31.03.21
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
File Type: DR	Rev: C	Number: 8000	Revision: 0



FE.01a FE.01a - VEHICLE EXCLUSION (POST & WIRE) FENCE POST DETAIL
SCALE 1:10

- FINISHED SPECIFICATION:
- TIBER STAIN FINISH TO BE CABOTS 'TIMBER SHADES' EBONY N.
- CONTRACTOR NOTES:
- PRIOR TO STAINING, CONTRACTOR TO PROVIDE 3mm CHAMFER TO ALL POSTS.

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FE.01b FE.01b - VEHICLE EXCLUSION (POST & WIRE) FENCE POST DETAIL
SCALE 1:10

- FINISHED SPECIFICATION:
- TIBER STAIN FINISH TO BE CABOTS 'TIMBER SHADES' EBONY N.
- CONTRACTOR NOTES:
- PRIOR TO STAINING, CONTRACTOR TO PROVIDE 3mm CHAMFER TO ALL POSTS.

Note for Contractors
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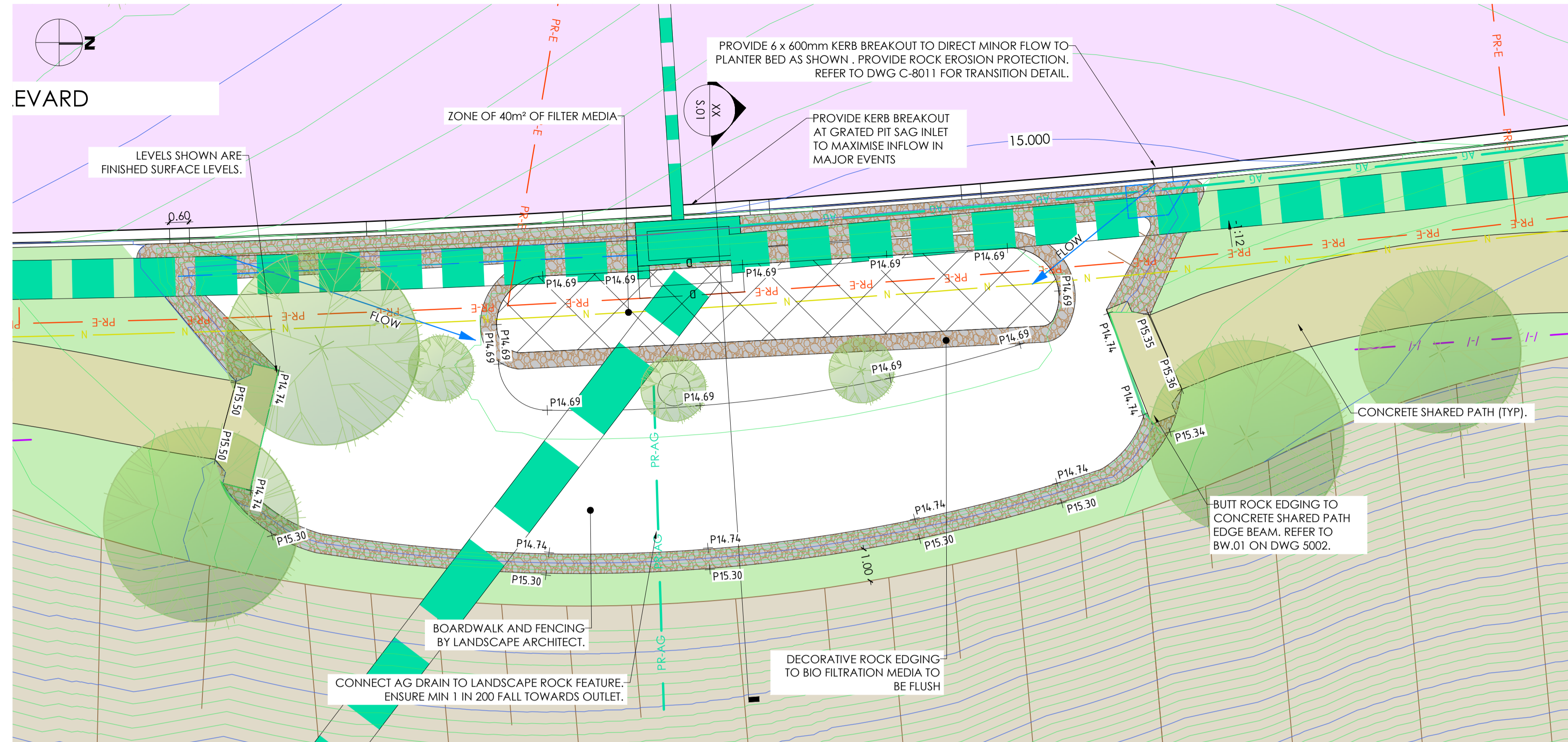
BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

ISSUED FOR CONSTRUCTION

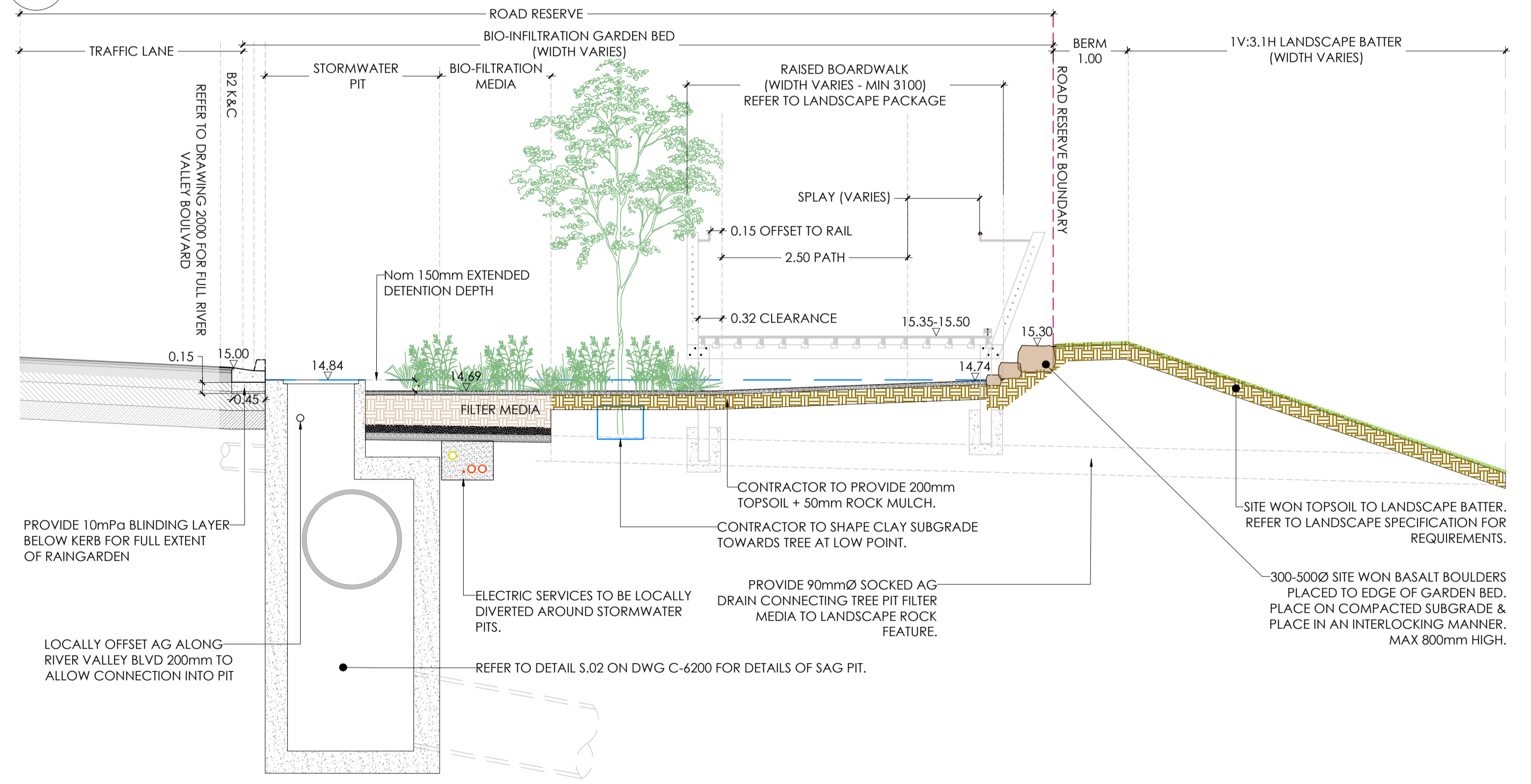


Project: RIVER VALLEY - STAGE 7C		Drawing Title: CONSTRUCTION DETAILS - FENCING	
Client: YOURLAND		Revision: AS SHOWN @ A1	
Issued for Construction		Drawn By: JSS	Checked By: AC
Project Number: 15019	Origin: CJA	Zone: XX	Level: XX
File Type: DR	Rev: C	Number: 8005	Revision: 0

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TS.01 TS.01 RIVER VALLEY BOULEVARD BIO-INFILTRATION GARDEN - PLAN VIEW
SCALE 1:100



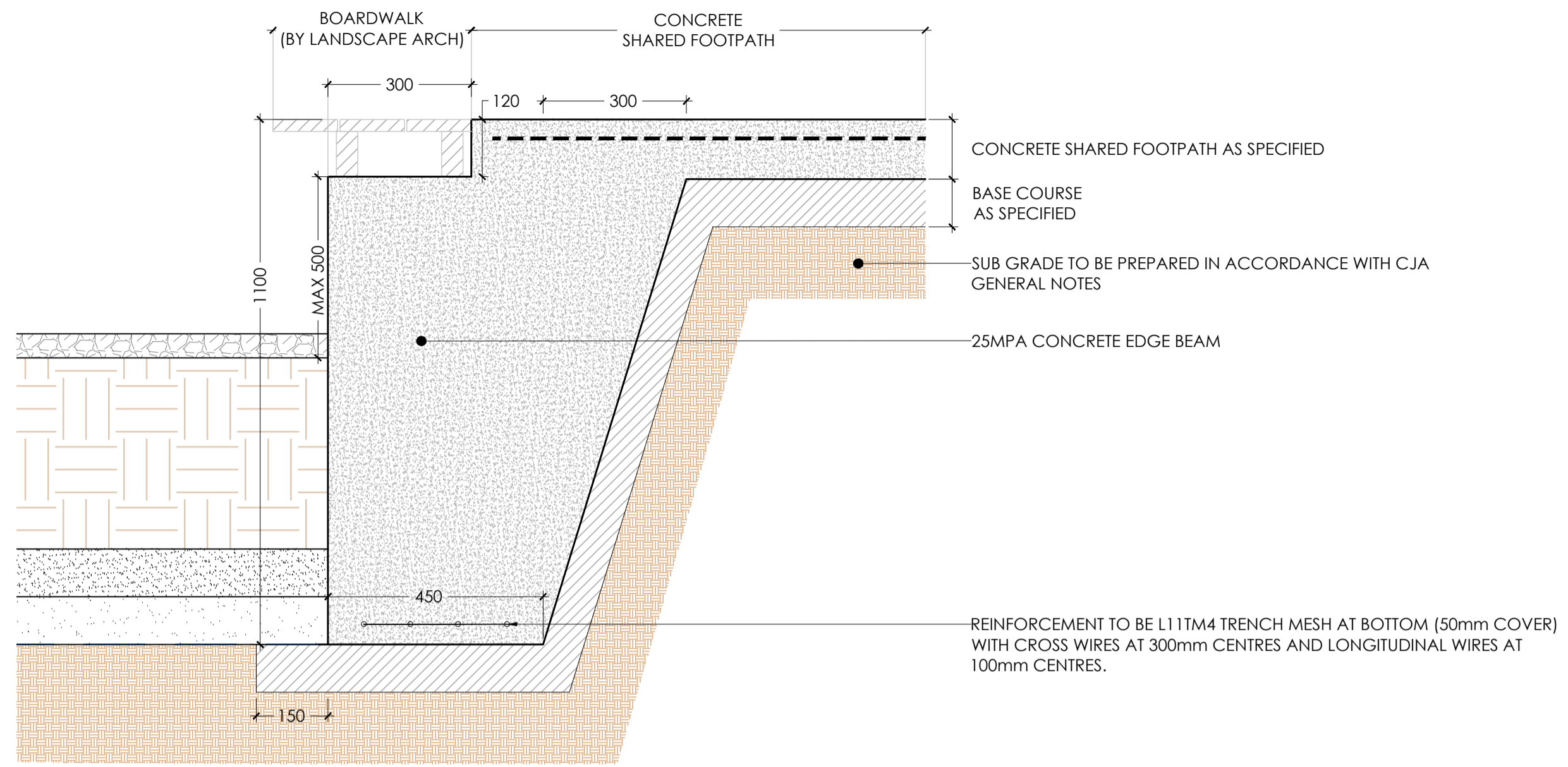
S.01 RIVER VALLEY BOULEVARD BIO-INFILTRATION GARDEN - SECTION VIEW
SCALE 1:50

- NOTES:**
- FILTER MEDIA - 400mm DEPTH COMPRISING A SANDY LOAM CONTAINING 10% LEAF COMPOST & 10% MULCH BY VOLUME, ACHIEVING A SATURATED HYDRAULIC CONDUCTIVITY OF 180mm/hr. TN CONTENT OF <1200mg/kg & <92mg/kg OF ORTHOPHOSPHATE CONTENT.
 - TRANSITION LAYER - 100mm SAND LAYER WITH <2% FINES & 90% PARTICLE SIZE ABOVE 0.25mm (E.G VIC ROADS WASHED A3 FILTER SAND)
 - DRAINAGE LAYER - 100mm CLEAN WASHED 5mm GRAVEL LAYER.
 - 1.0mm HDPE IMPERMEABLE LINER IS TO BE APPLIED TO THE CARRIAGEWAY SIDE. REFER TO SECTION S.02 FOR EXTENT.
 - SUBSOIL DRAINAGE IS TO DISCHARGE TO THE PROPOSED OUTFALL ROCK CREEK BED. REFER TO LANDSCAPE PLANS.
 - PROVIDE SACRIFICIAL LAYER OF BIDIM A24 TO SURFACE OF MEDIA, PRIOR TO LANDSCAPING, TO PROTECT MEDIA FROM CLOGGING. PLANTING TO OCCUR ONCE CATCHMENT IS 90% STABILISED
 - REFER TO LANDSCAPE PLANS FOR PLANTING SPECIFICATION.

Note for Contractors
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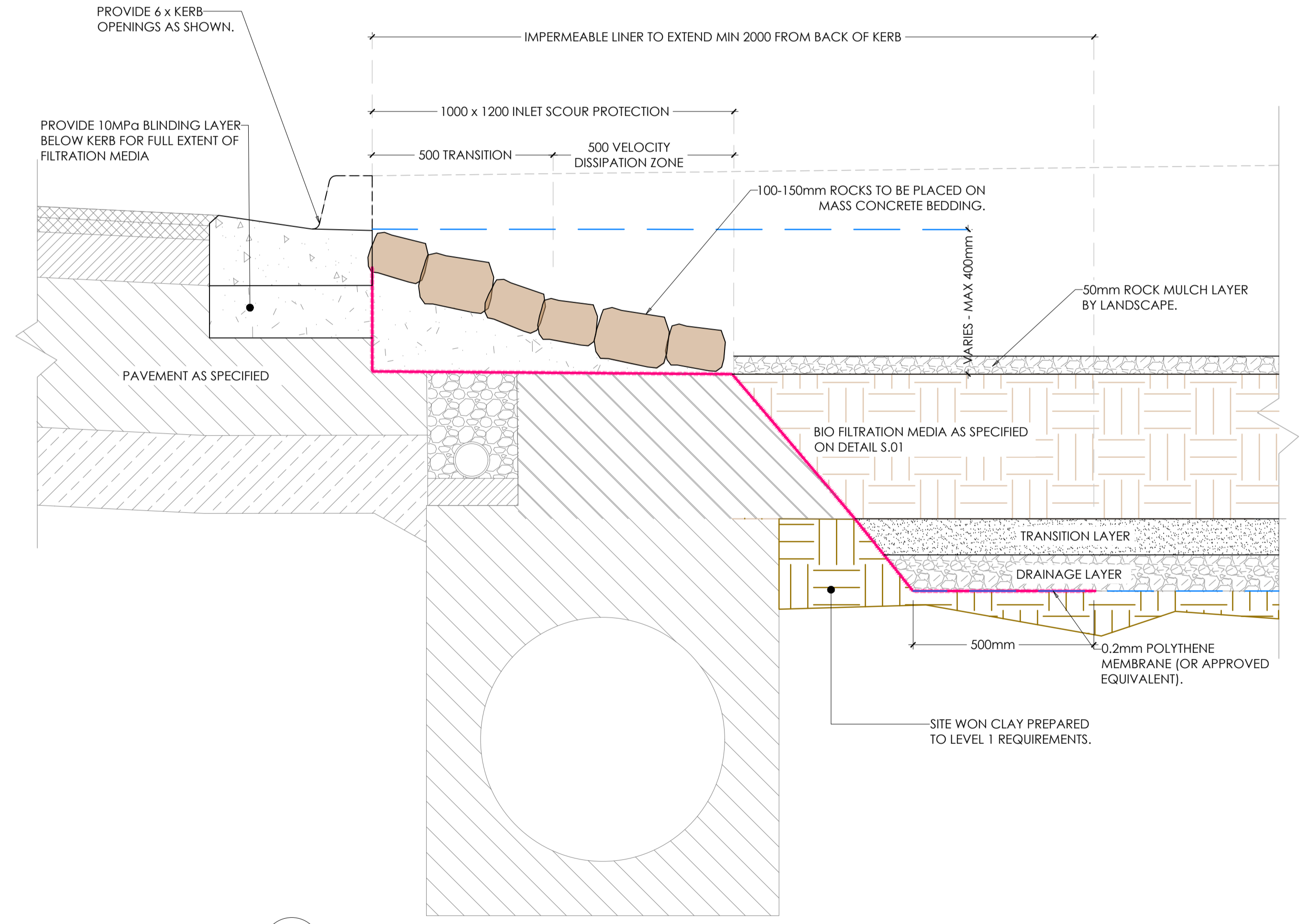
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BW.01 BW.01 - BOARDWALK TIE IN DETAIL
SCALE 1:10

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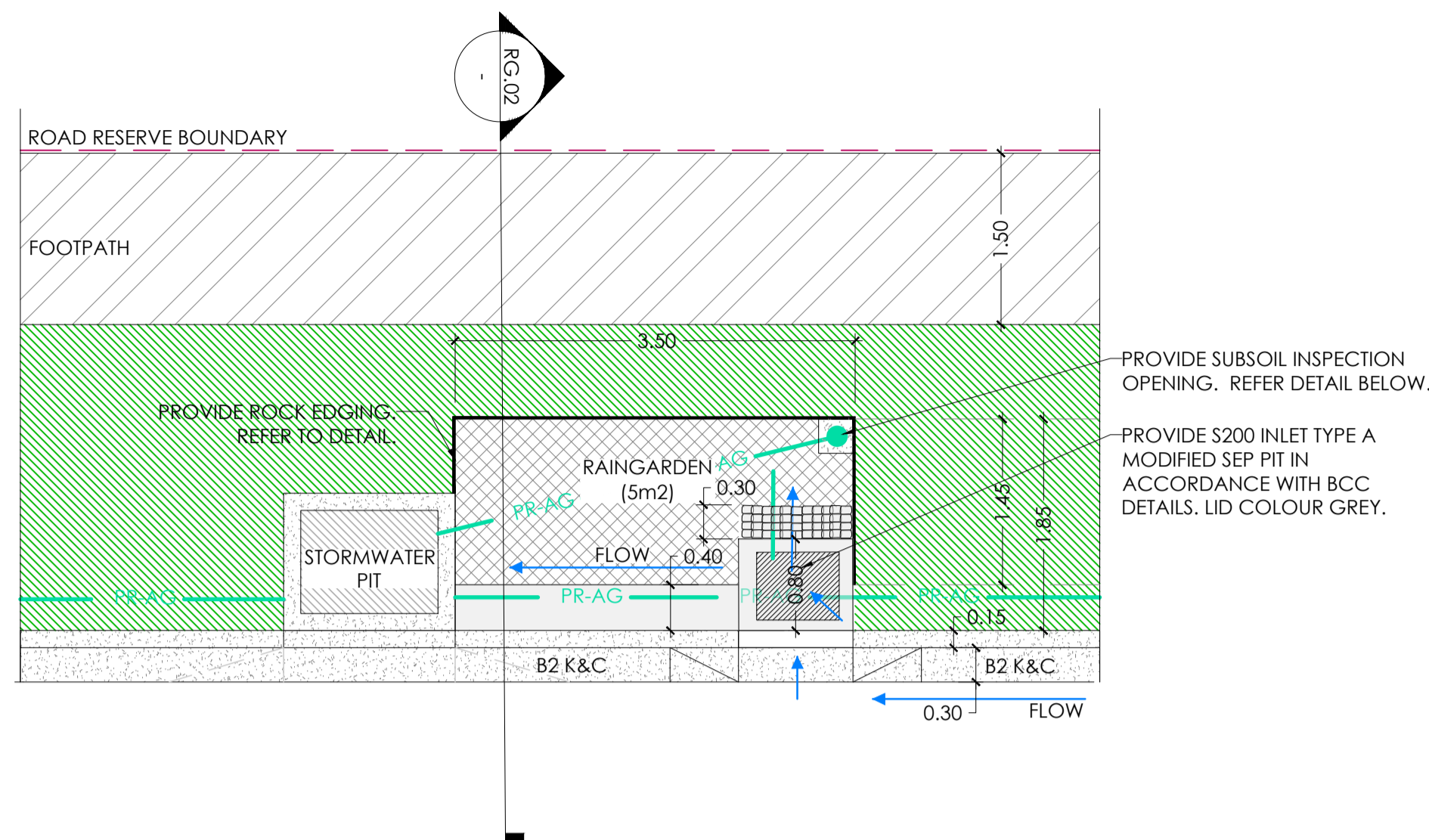


S.02 RVB RIP RAP DETAIL
SCALE 1:10



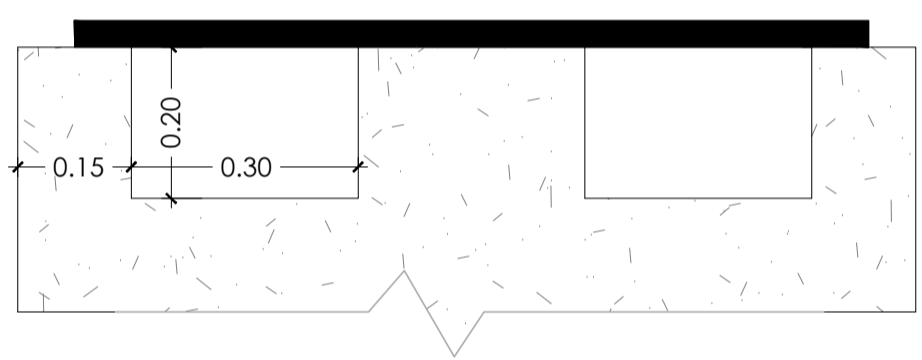
Project: RIVER VALLEY - STAGE 7C		Drawing Title: CONSTRUCTION DETAILS - RAINGARDENS SHEET (1 OF 2)	
Client: YOURLAND		Date of Issue: 31/03/21	
Issued for Construction		Drawn: AK	Checked: AK
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
File Type: DR	Rev: C	Number: 8010	Revision: 0

ISSUED FOR CONSTRUCTION

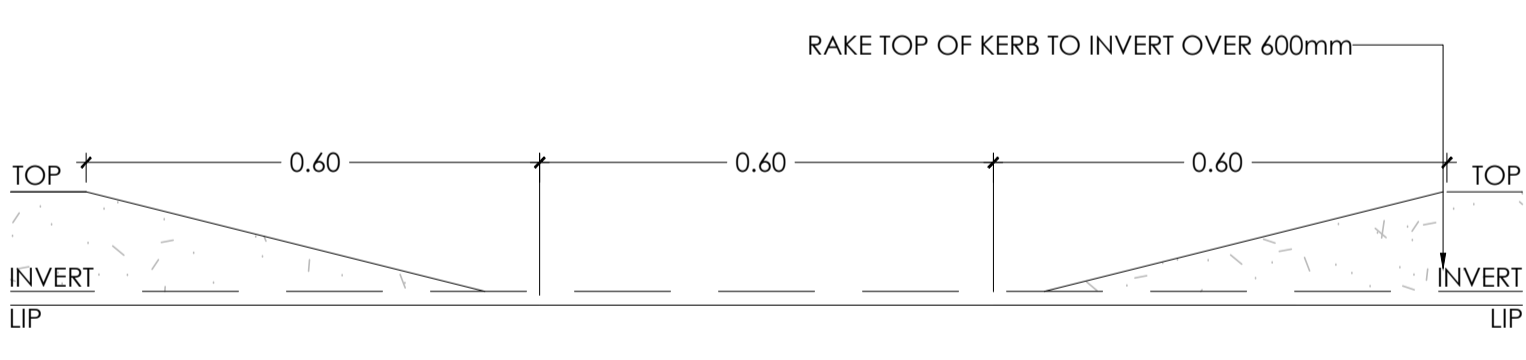


8001 PERENNIAL DRIVE RAINGARDEN - TYPICAL PLAN VIEW
SCALE 1:50

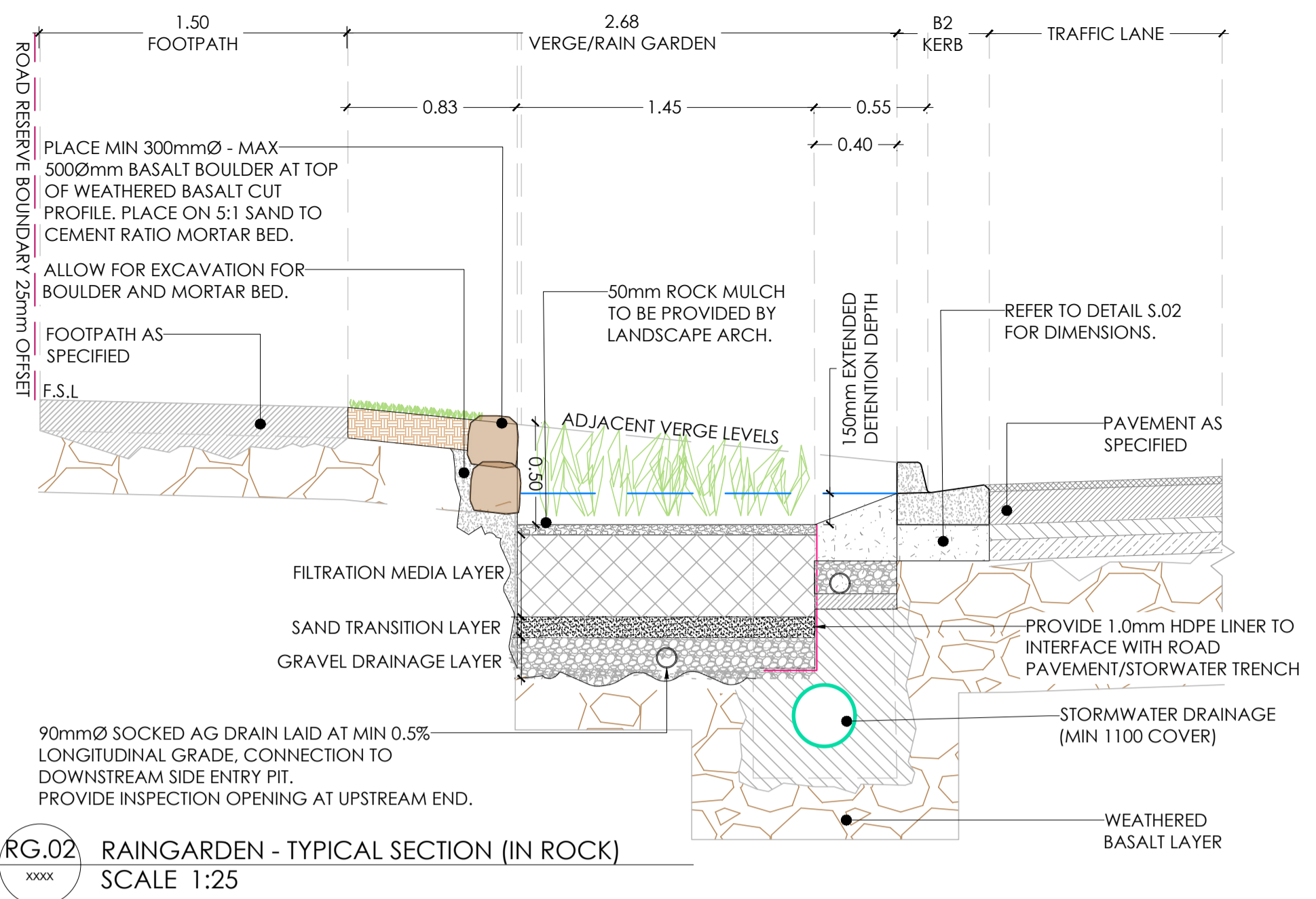
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8001 S.04 PIT BACK OPEN
SCALE 1:10

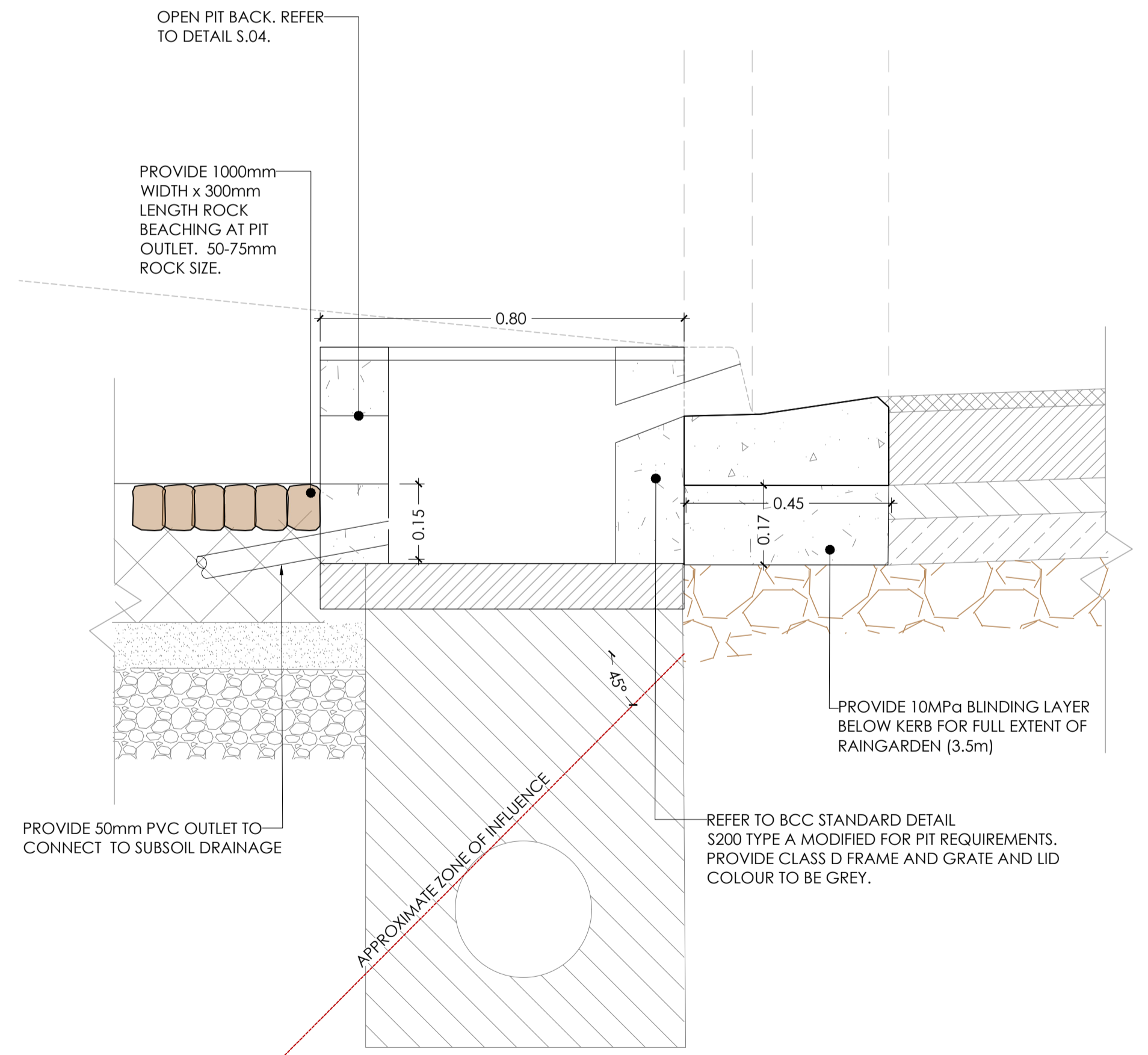


8001 S.05 KERB TRANSITION DETAIL
SCALE 1:10

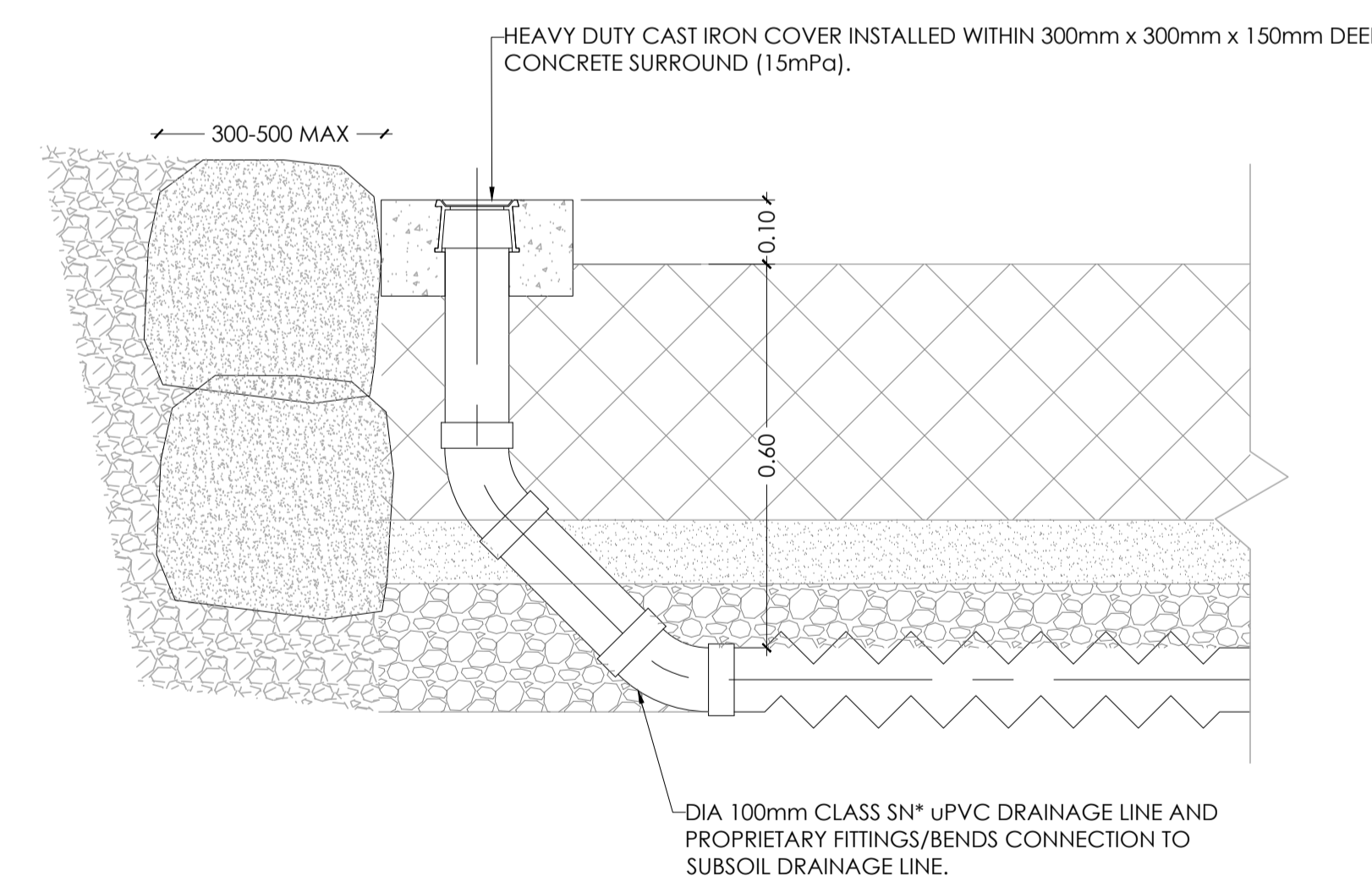


RAINGARDEN - TYPICAL SECTION (IN ROCK)
SCALE 1:25

- NOTES:
- FILTER LAYER - 400mm DEPTH OF FILTER MEDIA WITH MAX 5% ORGANIC CONTENT, ACHIEVING A SATURATED HYDRAULIC CONDUCTIVITY OF 200mm/hr, TN CONTENT OF <730mg/kg & <54mg/kg OF ORTHOPHOSPHATE CONTENT.
 - TRANSITION LAYER - 100mm SAND LAYER WITH <2% FINES & 90% PARTICLE SIZE ABOVE 0.25mm (E.G VIC ROADS WASHED A3 FILTER SAND)
 - DRAINAGE LAYER - 150mm CLEAN WASHED 5mm GRAVEL LAYER.
 - 1.0mm HDPE IMPERMEABLE LINER IS TO BE APPLIED TO THE CARRIAGEWAY SIDE. REFER TO DETAIL.
 - SUBSOIL DRAINAGE IS TO DISCHARGE TO THE PROPOSED OUTFALL ROCK CREEK BED. REFER TO LANDSCAPE PLANS.
 - BASE OF TRENCH SHALL BE GRADED TO THE SOCKED AG DRAIN AT MIN 0.5% GRADE
 - THE SUBSOIL DRAINAGE IS TO DISCHARGE TO THE PROPOSED PIT & PIPE NETWORK.
 - PROVIDE SACRIFICIAL LAYER OF BIDIM A24 TO SURFACE OF MEDIA, PRIOR TO LANDSCAPING, TO PROTECT MEDIA FROM CLOGGING.
 - PLANTING TO OCCUR ONCE CATCHMENT IS 90% STABILISED
 - REFER TO LANDSCAPE PLANS FOR PLANTING SPECIFICATION.



8001 S.02 PERENNIAL DRIVE RAINGARDEN - TYPICAL SECTION
SCALE 1:10



RAINGARDEN SUBSOIL CLEAN OUT DETAIL 'CO'
SCALE 1:10

NOTE: SUBSOIL CLEAN OUT TO BE PROVIDED AT UPSTREAM END OF FILTRATION MEDIA.

0	30.09.21	ISSUED FOR CONSTRUCTION	AK	AK
Revised	Date	Reason	Drawn	Checked

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Dial before you dig, BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

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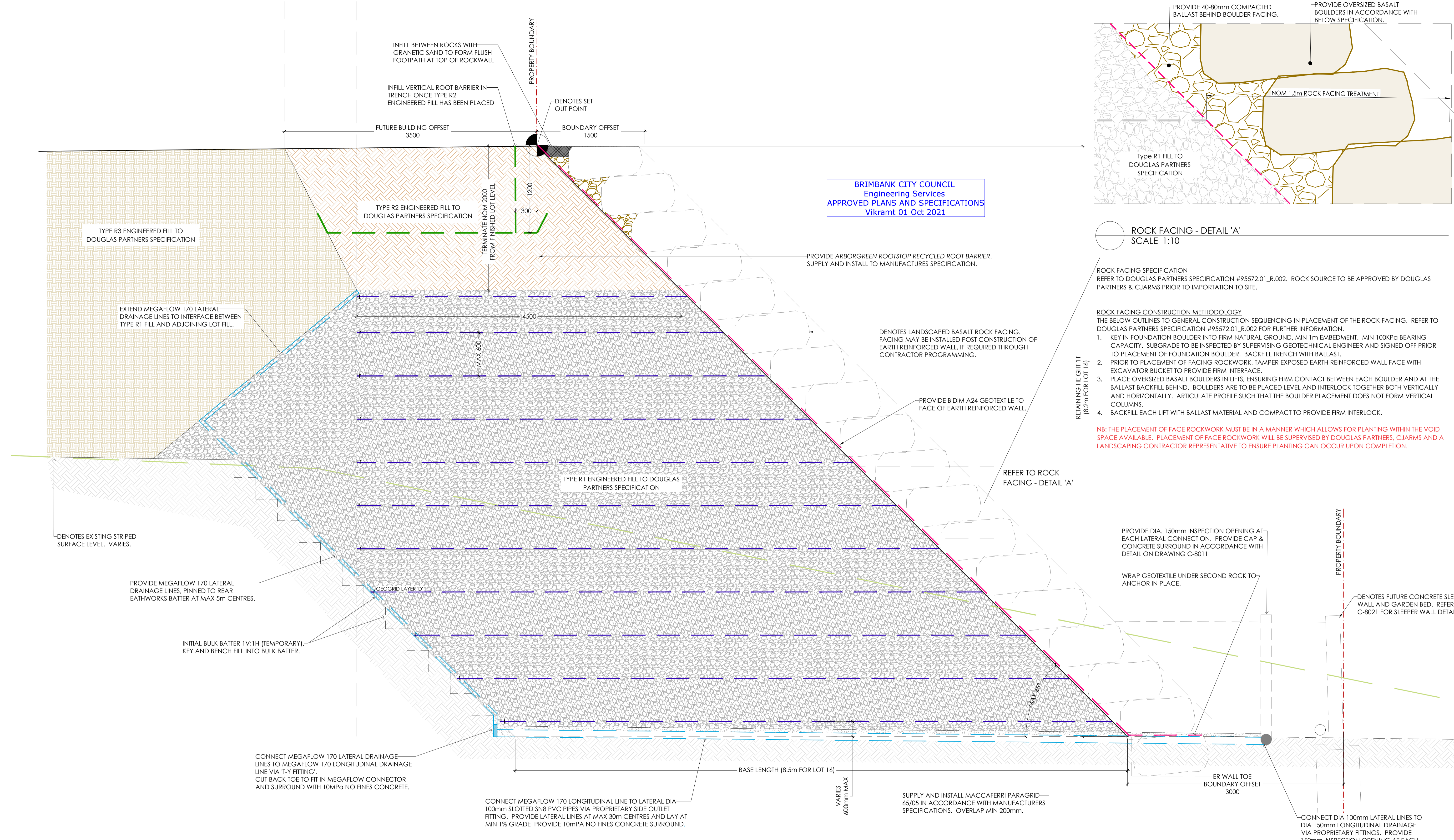
CIVIL SITWORKS
MELBOURNE
T: (03) 9385 2800 | E: info@cjarms.com | W: www.cjarms.com

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for CONSTRUCTION

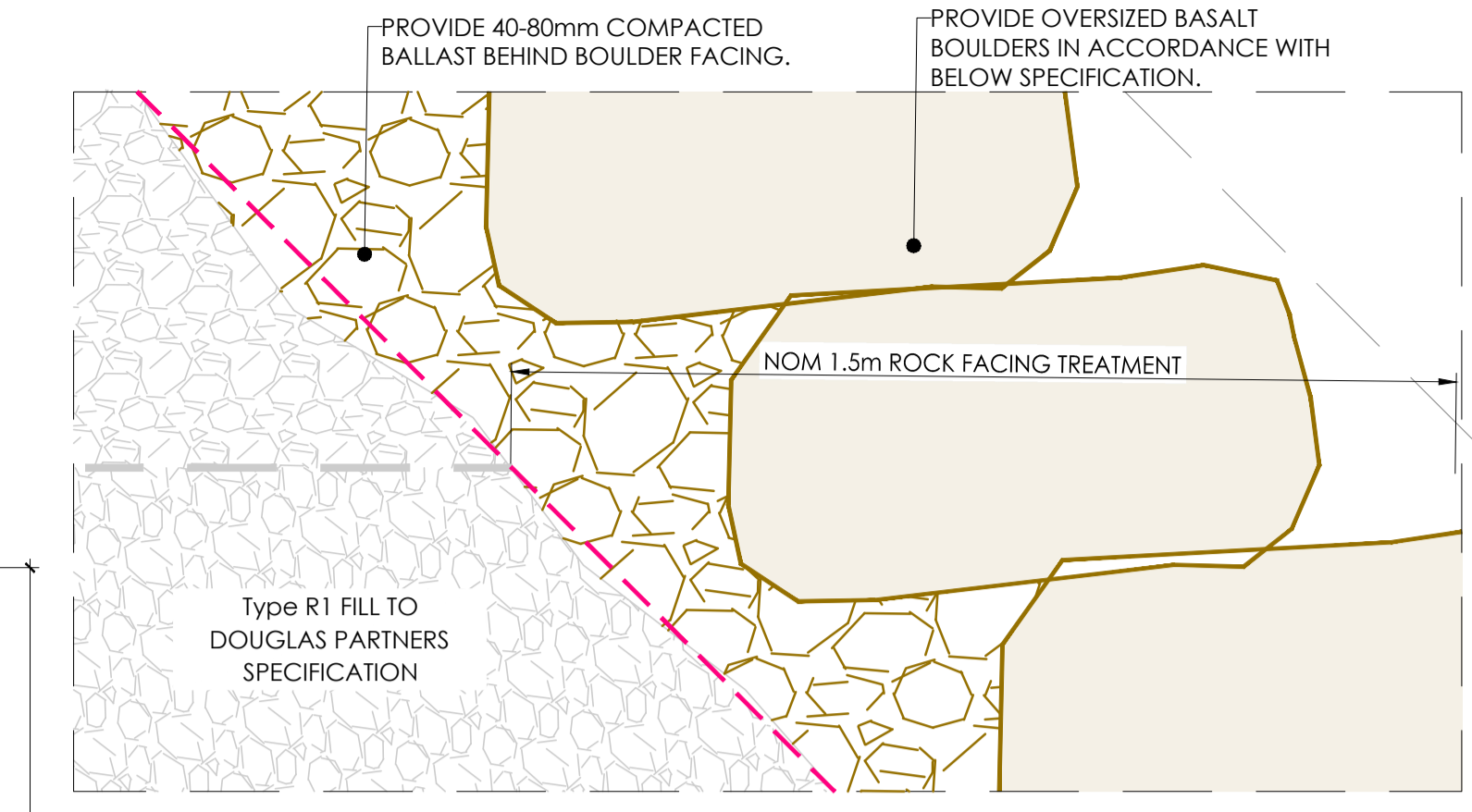
Drawn By	Checked By	Drawn Scale	Date of first issue
AK	AK	AS SHOWN @ A1	31.03.21

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	8011	0

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ROCK FACING - DETAIL 'A'
 SCALE 1:10

ROCK FACING SPECIFICATION
 REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01_R.002. ROCK SOURCE TO BE APPROVED BY DOUGLAS PARTNERS & CJARMS PRIOR TO IMPORTATION TO SITE.

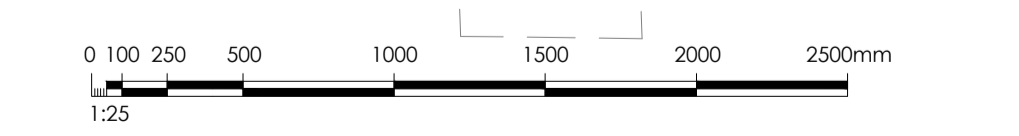
ROCK FACING CONSTRUCTION METHODOLOGY
 THE BELOW OUTLINES TO GENERAL CONSTRUCTION SEQUENCING IN PLACEMENT OF THE ROCK FACING. REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01_R.002 FOR FURTHER INFORMATION.

- KEY IN FOUNDATION BOULDER INTO FIRM NATURAL GROUND, MIN 1m EMBEDMENT. MIN 100KPa BEARING CAPACITY. SUBGRADE TO BE INSPECTED BY SUPERVISING GEOTECHNICAL ENGINEER AND SIGNED OFF PRIOR TO PLACEMENT OF FOUNDATION BOULDER. BACKFILL TRENCH WITH BALLAST.
- PRIOR TO PLACEMENT OF FACING ROCKWORK, TAMPER EXPOSED EARTH REINFORCED WALL FACE WITH EXCAVATOR BUCKET TO PROVIDE FIRM INTERFACE.
- PLACE OVERSIZED BASALT BOULDERS IN LIFTS, ENSURING FIRM CONTACT BETWEEN EACH BOULDER AND AT THE BALLAST BACKFILL BEHIND. BOULDERS ARE TO BE PLACED LEVEL AND INTERLOCK TOGETHER BOTH VERTICALLY AND HORIZONTALLY. ARTICULATE PROFILE SUCH THAT THE BOULDER PLACEMENT DOES NOT FORM VERTICAL COLUMNS.
- BACKFILL EACH LIFT WITH BALLAST MATERIAL AND COMPACT TO PROVIDE FIRM INTERLOCK.

NB: THE PLACEMENT OF FACE ROCKWORK MUST BE IN A MANNER WHICH ALLOWS FOR PLANTING WITHIN THE VOID SPACE AVAILABLE. PLACEMENT OF FACE ROCKWORK WILL BE SUPERVISED BY DOUGLAS PARTNERS, CJARMS AND A LANDSCAPING CONTRACTOR REPRESENTATIVE TO ENSURE PLANTING CAN OCCUR UPON COMPLETION.

RW.1 TYPICAL EARTH REINFORCEMENT DETAIL (TYP SECTION TAKEN FROM LOT 16)
 SCALE 1:25

- NOTES:
- REFER TO LONGSECTION FOR LENGTH OF GEOGRID LAYERS INSTALLATION RL AND EMBEDMENT LENGTH.
 - REFER TO DOUGLAS PARTNERS SPECIFICATION #95572.01_R.002 FOR ALL HOLD POINTS.



Note for Contractors
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NOTE:
 THE INFORMATION CONTAINED ON THIS PLAN IS A REPRESENTATION OF THE DESIGN PREPARED BY DOUGLAS PARTNERS. REFER TO:
 - DOUGLAS PARTNERS REPORT #95572.01_R001 FOR DESIGN AND CERTIFICATION OF THE ROCK WALL.
 - DOUGLAS PARTNERS REPORT #95572.01_R002 FOR CONSTRUCTION SPECIFICATION.
 ANY DISCREPANCIES BETWEEN THE DESIGN DRAWINGS AND THE DOUGLAS PARTNERS REQUIREMENTS SHALL BE REFERRED TO THE SUPERINTENDENT

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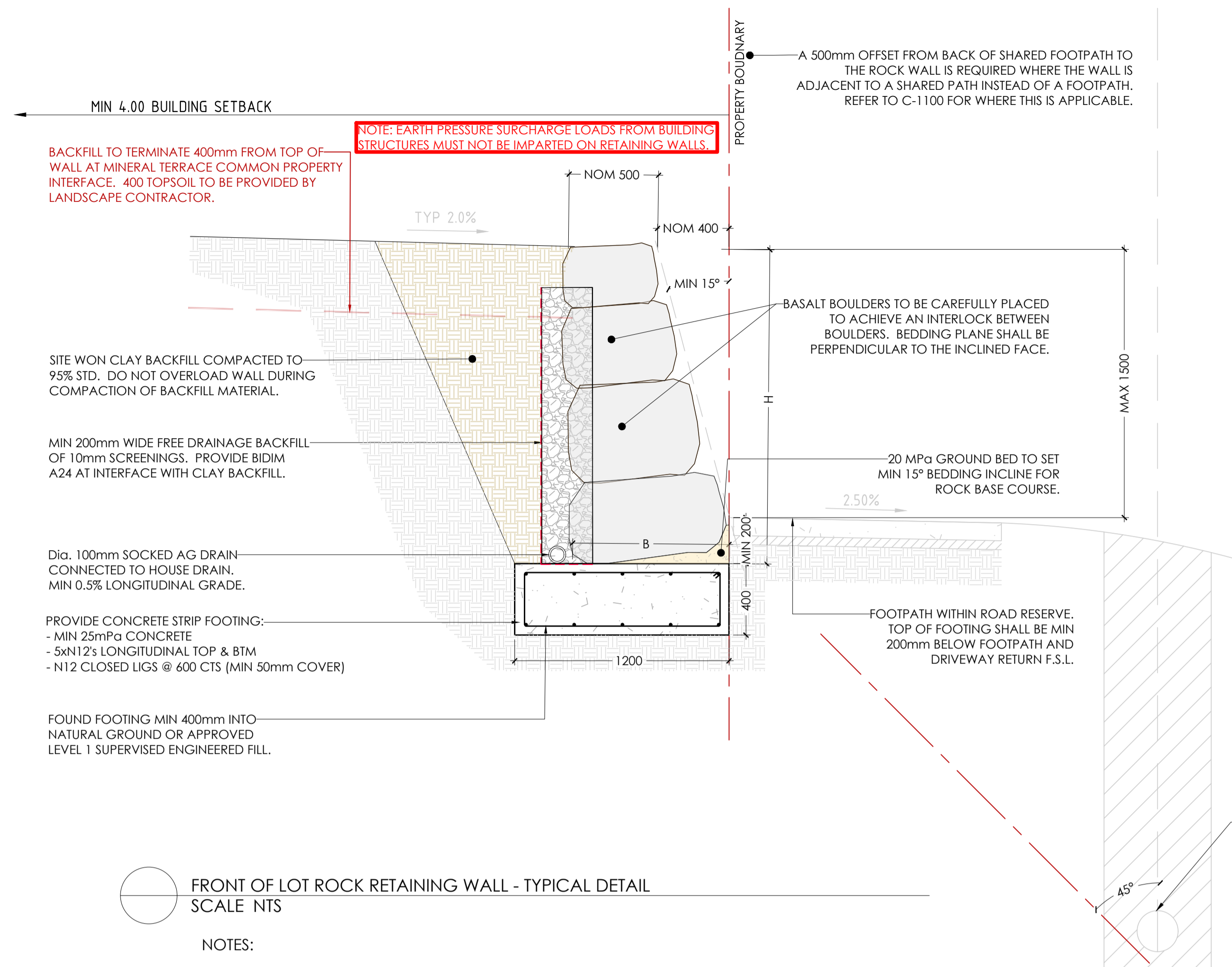
CIVIL SITWORKS

Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Drawn By: AE
 Checked By: AE
 Date of Issue: 31.03.21

Project Number: 15019
 Origin: CJA
 Zone: 7C
 Level: XX
 File Type: DR
 Role: C
 Number: 8020
 Revision: 1

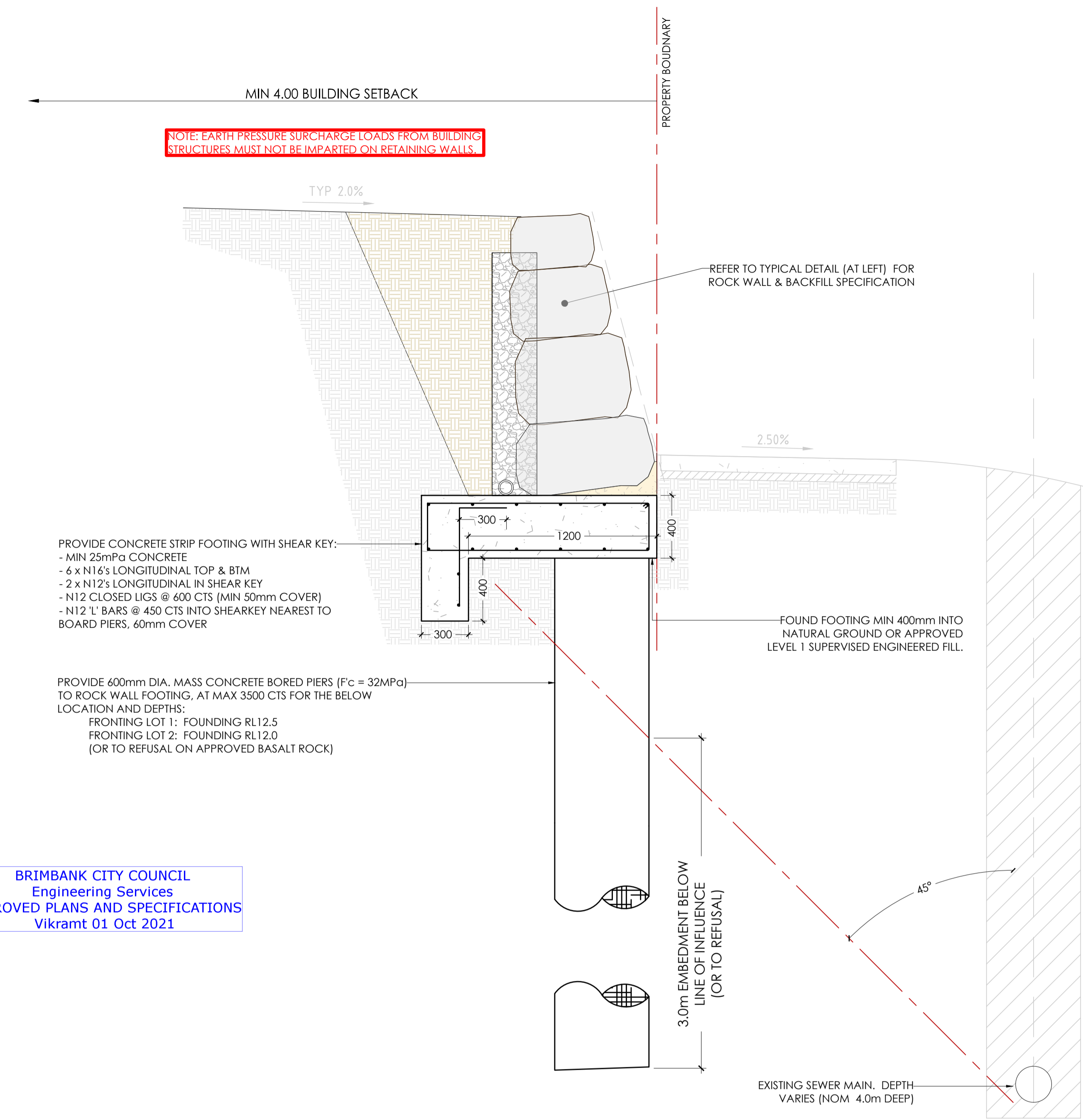
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FRONT OF LOT ROCK RETAINING WALL - TYPICAL DETAIL
 SCALE NTS

NOTES:

- THE DESIGN HAS BEEN PREPARED ON THE BASIS THAT CONSTRUCTION WILL BE UNDERTAKEN BY AN EXPERIENCED SPECIALIST CONTRACTOR
- THE ROCK RETAINING WALL SHALL BE FREE DRAINING DUE TO ITS GRANULAR NATURE
- THE ROCK TO BE USED SHALL BE OF HIGH STRENGTH, OR GREATER, NEWER VOLCANICS BASALT ROCK, WHICH HAS UNIAXIAL COMPRESSIVE STRENGTH (UCS) OF AT LEAST 20 MPa AND BE MODERATELY OR LESS WEATHERED.
- MINIMUM BOULDER SIZE IS 500x500x500
- BOULDERS, AND THEIR BED JOINTS, ARE TO BE ANGLED BACK INTO THE FACE AND PLACED TO INTERLOCK TOGETHER BOTH HORIZONTALLY AND VERTICALLY (i.e. STRETCHER BOND)
- BOULDERS SHALL BE PLACED OFFSET SO AS TO AVOID FORMING VERTICAL COLUMNS (i.e. STRETCHER BOND)
- BALLAST SHOULD BE PLACED IN THE BOULDER RETAINING WALL TO FILL VOIDS AS REQUIRED
- BALLAST SHALL BE MODERATELY WEATHERED OR LESS WEATHERED BASALT OR STRONGER APPROVED ALTERNATIVE ROCK TYPE
- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATION
- WHERE COMPACTION OF THE BACKFILL EXCEEDS THE ABOVE DESIGN LOADS, CONTRACTOR SHALL ALLOW FOR TEMPORARY PROPPING OF THE FACE OF THE WALL.

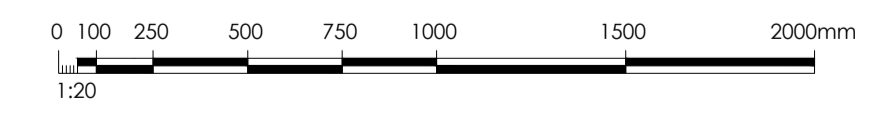


FRONT OF LOT ROCK RETAINING WALL - LOT 1 & LOT 2 DETAIL
 SCALE NTS

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 Engineering Services
 APPROVED PLANS AND SPECIFICATIONS
 Vikramt 01 Oct 2021

RETAINED HEIGHT (H)	SLANT OF FACE	TOP ROCK WIDTH	BASE ROCK WIDTH (B)
0mm - 1700mm	15 DEGREES	500mm (MIN)	0.6 x WALL HEIGHT (H)

- ASSUMPTIONS:
- ROCK DENSITY MIN 2700kg/m³ WITH MAX 15% VOID RATIO.
 - SITE WON BACKFILL K_a = 0.45, SOIL UNIT WEIGHT 20kN/m³.
 - RETAINING WALL TO BE FOUNDED ON SUBGRADE COMPACTED TO ACHIEVE MIN 98% STANDARD AND ACHIEVE MIN 100kPa BEARING CAPACITY.
 - ASSUMED SURCHARGE LOADING OF 5kPa ON WALL.



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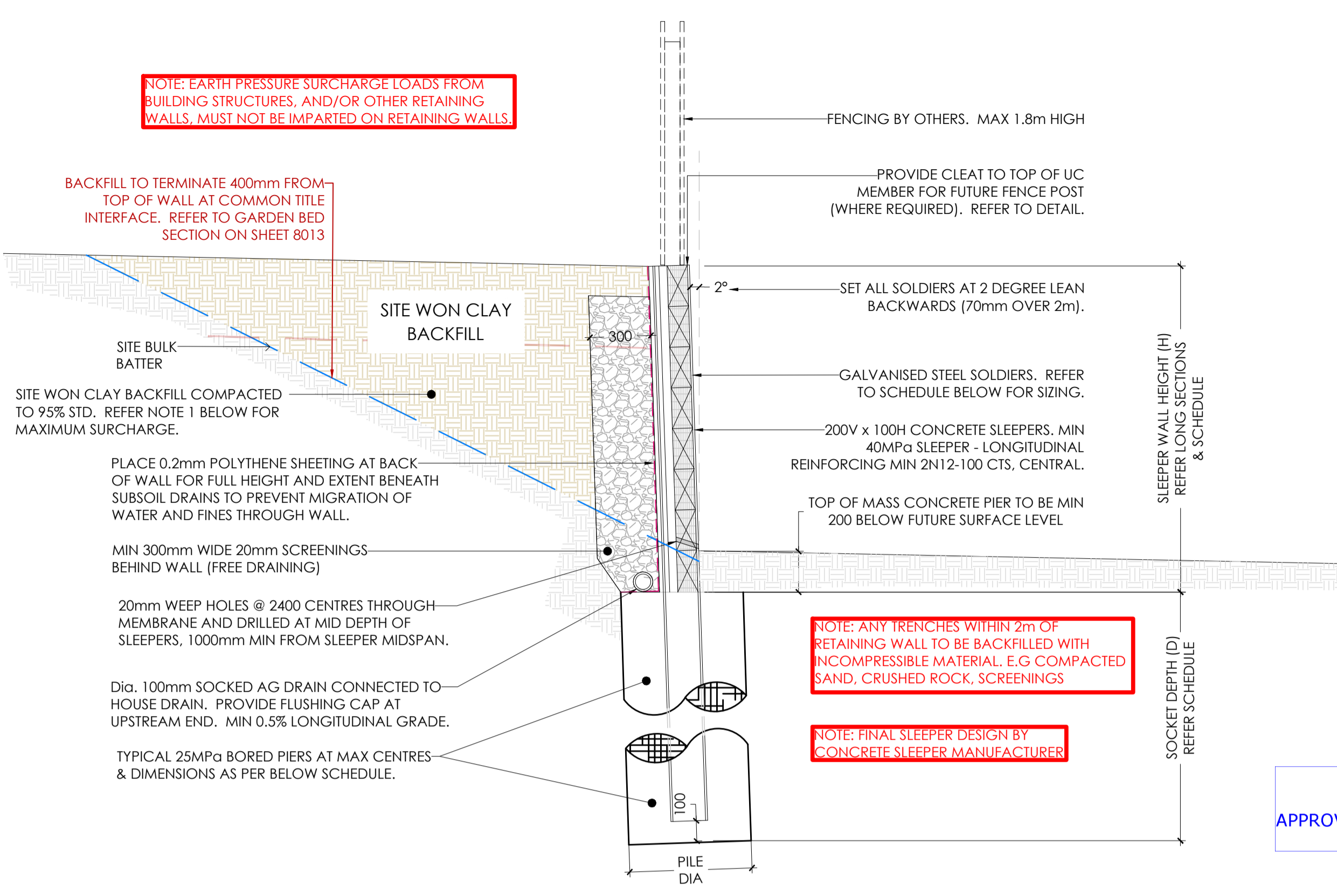
ISSUED FOR CONSTRUCTION

Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Project Number	Client	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	8021	0

Drawing Title: CONSTRUCTION DETAILS - RETAINING WALLS SHEET (2 OF 3)
 Drawn By: AE, Checked By: AE, Drawn Scale: AS SHOWN @ A1, Date of First Issue: 31.03.21

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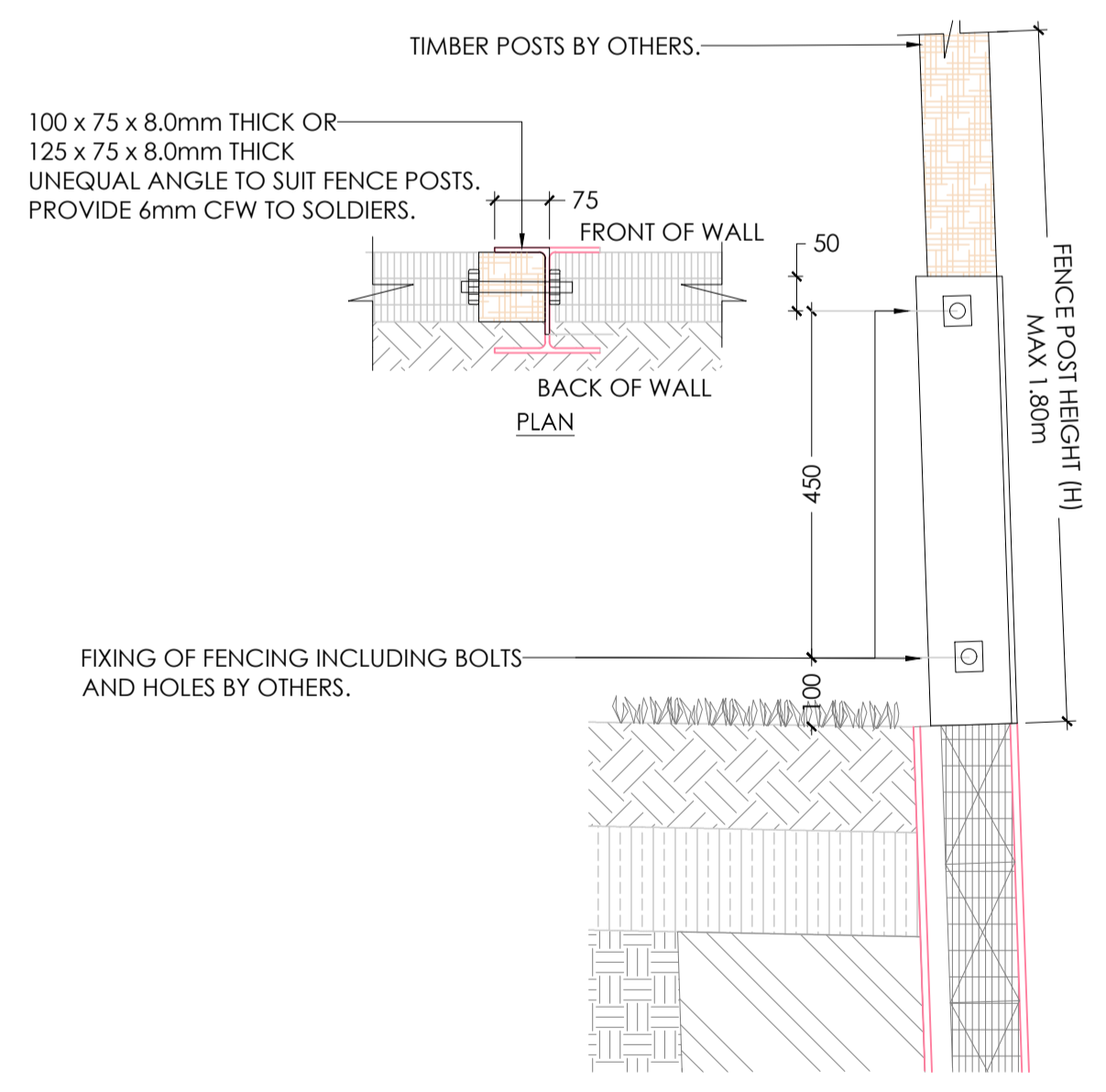


RW.03 8022 RW.03a - PRE-CAST SLEEPER RETAINING WALL - FOOTING TYPE 1
SCALE NTS

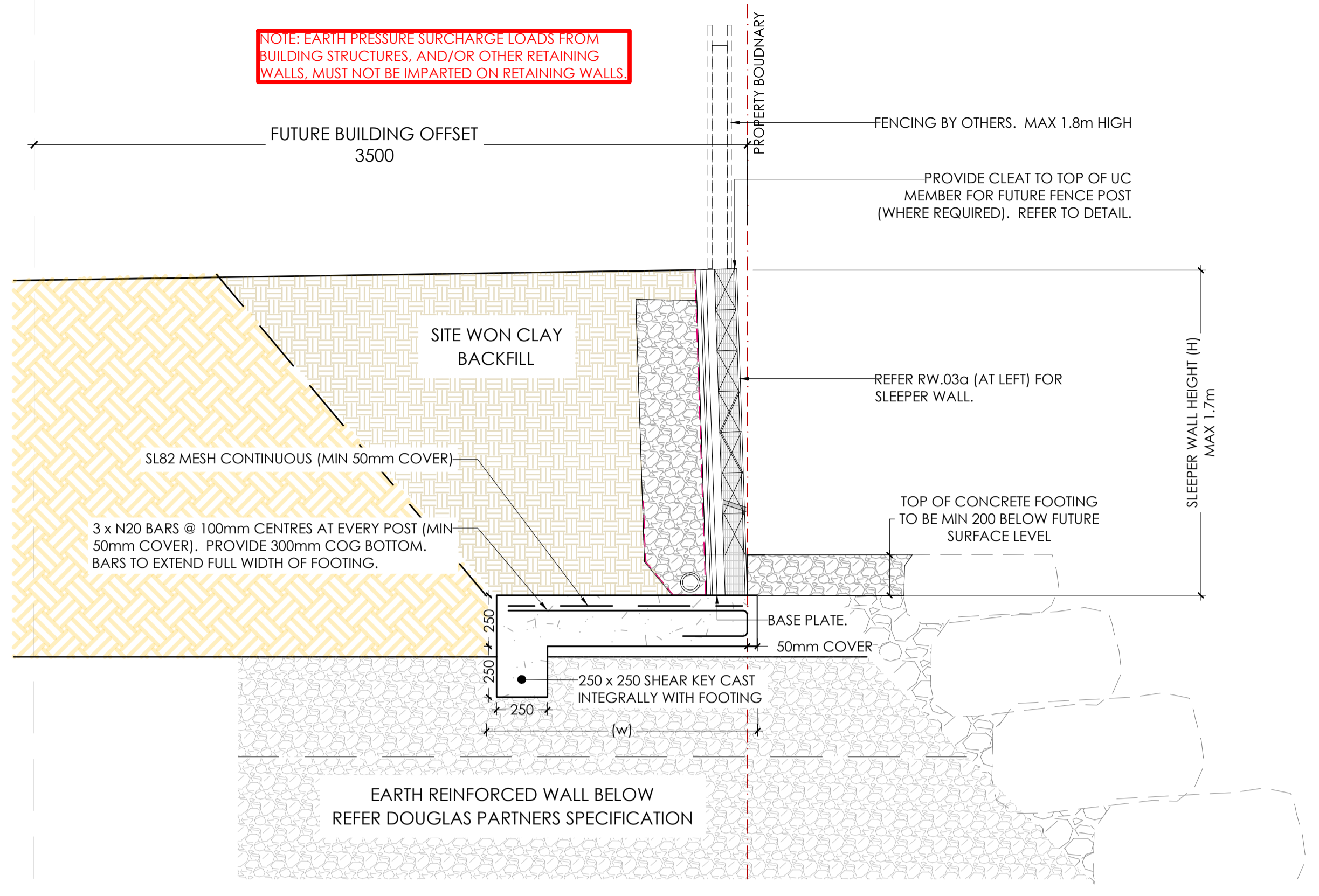
- NOTES:**
- DESIGN LOADS ARE:
 - 5kPa WHERE RETAINING LOTS/LANDSCAPING RESERVES
 - 10kPa WHERE RETAINING ROADS
 WHERE COMPACTION EQUIPMENT LOADS EXCEEDS THE ABOVE DESIGN LOADS, ALLOW TO TEMPORARILY PROP THE FACE OF THE WALL.
 - SOCKET DEPTH IS DEPTH INTO APPROVED NATURAL GROUND OR APPROVED SUPERVISED ENGINEERED FILL. TABULATED SOCKET DEPTHS ARE BASED ON THE GROUND ON THE HIGH SIDE OF THE WALL BEING HORIZONTAL. SHOULD THERE BE AN INCLINE BEHIND THE TOP OF WALL OF UP TO 1V:4H MAX: ADOPT THE DESIGN FOR HEIGHT (H) = 1.2 x ACTUAL WALL HEIGHT.
 - WHERE THE SOCKET DEPTH EXTENDS INTO APPROVED BASALT ROCK, SOCKET DEPTH SHALL BE THE LESSER OF THE DEPTH NOTED IN THE BELOW SCHEDULE AND MIN 1.2m INTO THE APPROVED HIGH STRENGTH BASALT PROFILE.
 - BORE HOLES FOR PIERS SHALL BE CLEAN OF LOOSE SOIL AND DEBRIS. DO NOT BORE HOLES WHEN RAIN IS EXPECTED.
 - ALL SLEEPERS ARE TO BE SLEEPER DIRECT RUSTIC WOODGRAIN SLEEPER - CHARCOAL.

TABLE.01 - PRE CAST SLEEPER WALL SCHEDULE - 5kPa SURCHARGE				
RETAINED HEIGHT	H.D GALV. SOLDERS	MAX. SOLDER SPACING	PIER DIAMETER (PØ)	SOCKET DEPTH (D)
0mm - 600mm	150 UC 23	2400mm	600mm	1500mm
601mm - 900mm	150 UC 23	2400mm	600mm	1800mm
901mm - 1200mm	150 UC 23	2400mm	600mm	2100mm
1201mm - 1500mm	150 UC 23	2400mm	600mm	2400mm
1501mm - 1800mm	150 UC 23	2400mm	600mm	2800mm
1801mm - 2100mm	150 UC 23	1800mm	600mm	2800mm
2101mm - 2400mm	150 UC 30	1800mm	600mm	3100mm
2401mm - 2700mm	150 UC 37	1800mm	600mm	3500mm
2701mm - 3000mm	200 UC 46	1800mm	600mm	3800mm
3001mm - 3300mm	200 UC 52	1800mm	600mm	4100mm

TABLE.02 - PRE CAST SLEEPER WALL SCHEDULE - 10kPa SURCHARGE				
RETAINED HEIGHT	H.D GALV. SOLDERS	MAX. SOLDER SPACING	PIER DIAMETER (PØ)	SOCKET DEPTH (D)
0mm - 600mm	150 UC 23	1800mm	600mm	1500mm
601mm - 900mm	150 UC 23	1800mm	600mm	1800mm
901mm - 1200mm	150 UC 23	1800mm	600mm	2100mm
1201mm - 1500mm	150 UC 23	1800mm	600mm	2400mm
1501mm - 1800mm	150 UC 23	1200mm	600mm	2400mm
1801mm - 2100mm	150 UC 23	1200mm	600mm	2700mm
2101mm - 2400mm	150 UC 30	1200mm	600mm	3000mm
2401mm - 2700mm	150 UC 37	1200mm	600mm	3300mm
2701mm - 3000mm	200 UC 46	1200mm	600mm	3500mm
3001mm - 3300mm	200 UC 52	1200mm	600mm	3800mm



RW.04 XXXX RW.04 - PRE-CAST SLEEPER - FENCE CONNECTION DETAIL
SCALE 1:10



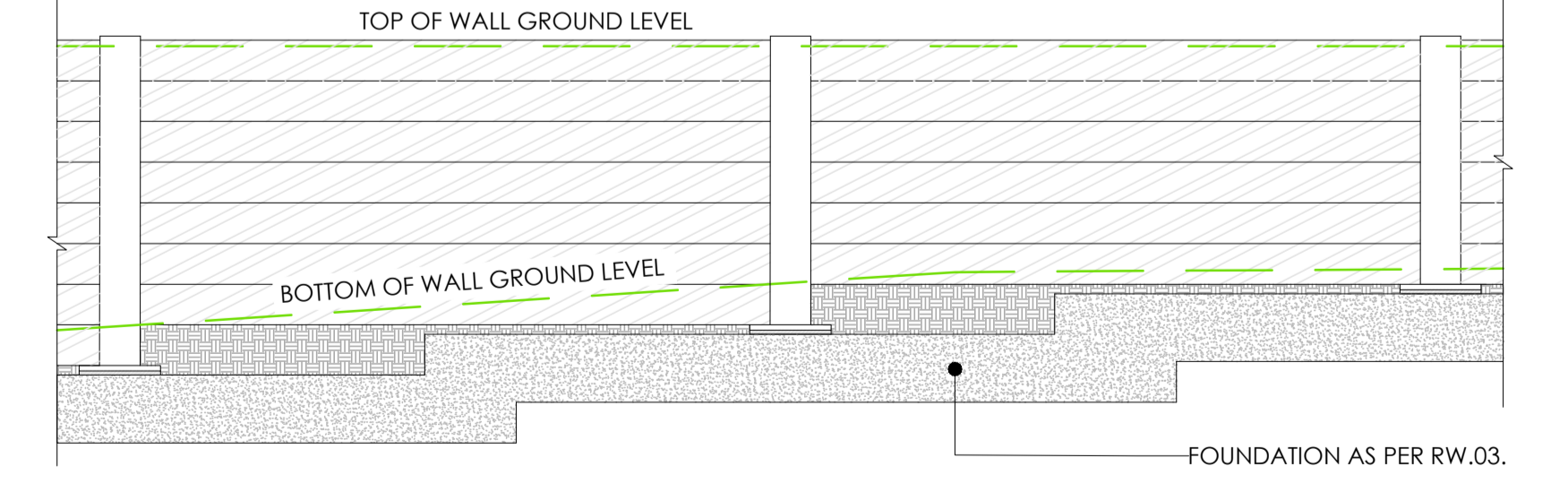
RW.03 8022 RW.03b - PRE-CAST SLEEPER RETAINING WALL - FOOTING TYPE 2
SCALE NTS

- NOTES:**
- DESIGN LOADS ARE:
 - 5kPa WHERE RETAINING LOTS/LANDSCAPING RESERVES
 - 10kPa WHERE RETAINING ROADS
 WHERE COMPACTION EQUIPMENT LOADS EXCEEDS THE ABOVE DESIGN LOAD, ALLOW TO TEMPORARILY PROP THE FACE OF THE WALL.
 - WIDTH (W) OF FOOTING TO EQUAL 0.8 x RETAINED HEIGHT (H). MIN WIDTH 600mm.
 - MIN COVER TO ALL REINFORCEMENT (50mm).
 - SHEAR KEY TO BE CAST INTEGRALLY WITH FOOTING & MESH SHALL BE CAPPED (MIN 300mm).

RW.03 XXXX RW.03 - STEPPED FOUNDATION DETAIL (TYPICAL)
SCALE 1:10

RW.05 XXXX RW.05 - PRE-CAST SLEEPER - POST CONNECTION DETAIL
SCALE 1:10

- NOTES:**
- EQUIVALENT CAST IN 316 S/S ANCHOR BOLTS ARE ACCEPTABLE AS ALTERNATIVE TO CHEMSET ANCHOR.



RW.04 XXXX RW.04 - STEPPED FOUNDATION - PLAN VIEW
SCALE 1:10

Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	AK	AK

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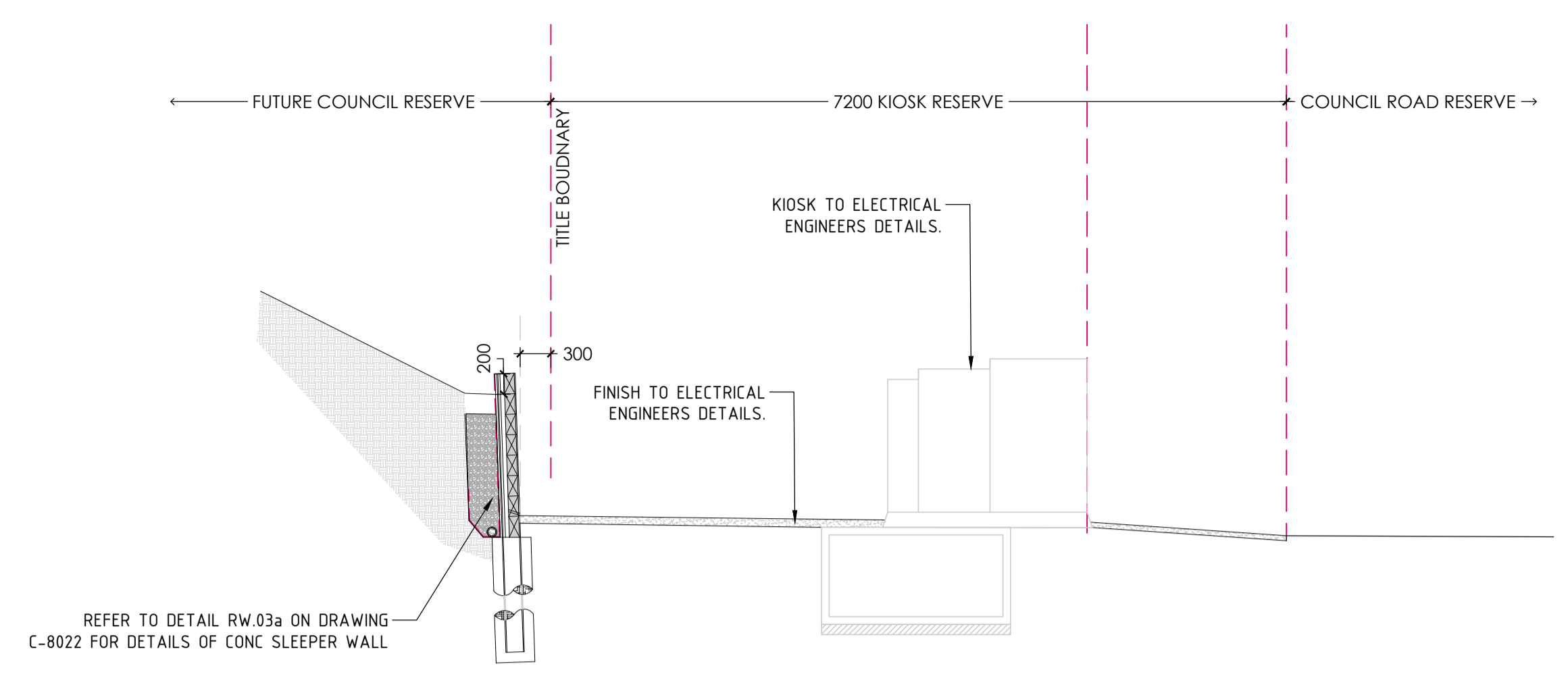
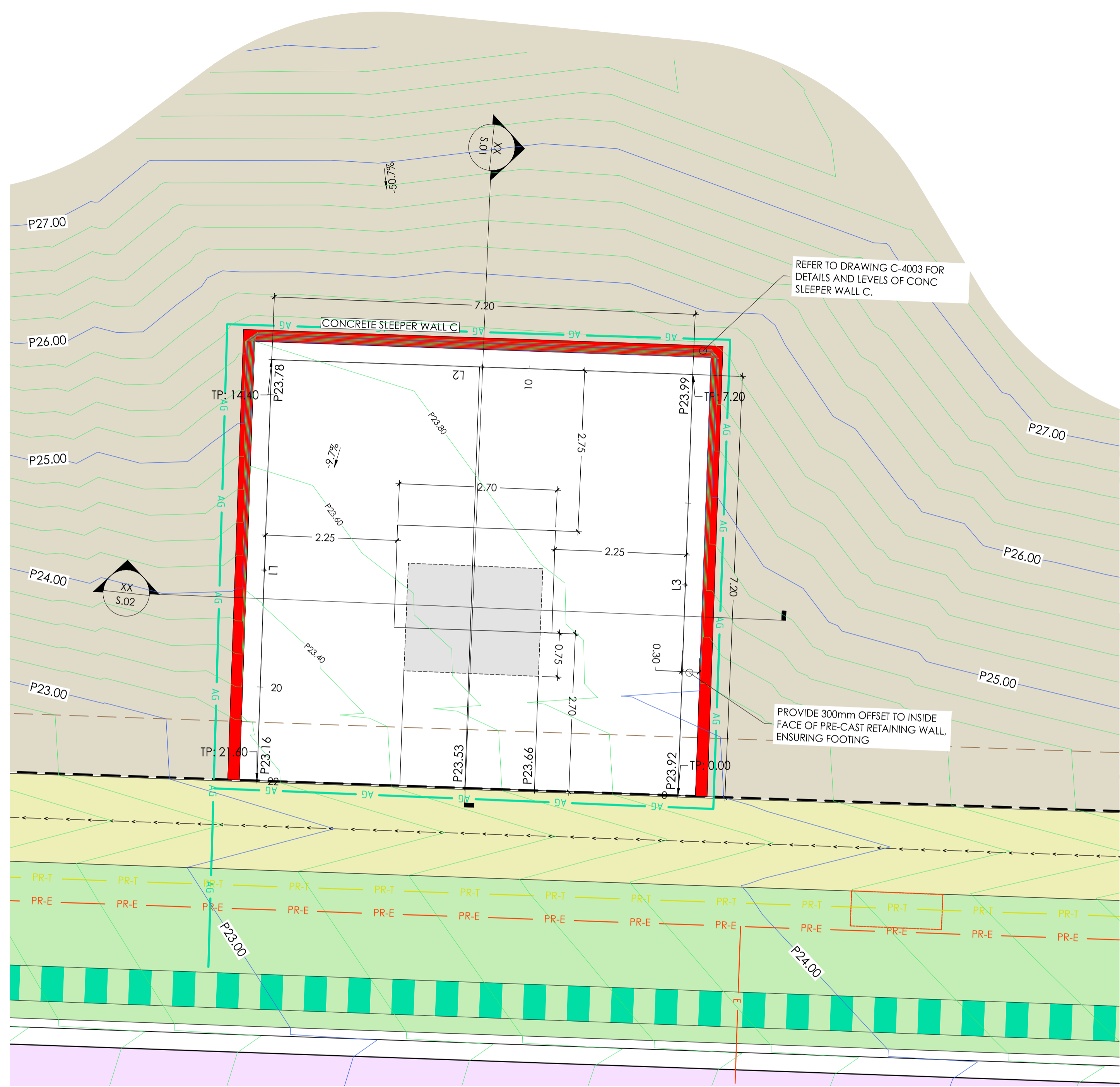
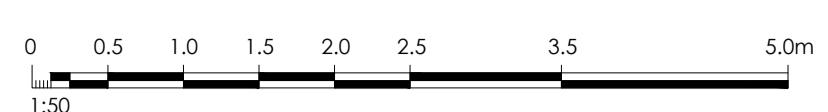
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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawn By: AK
Checked By: VE
Drawn Scale: 1:20 @ A1
Date of Issue: 31.03.21

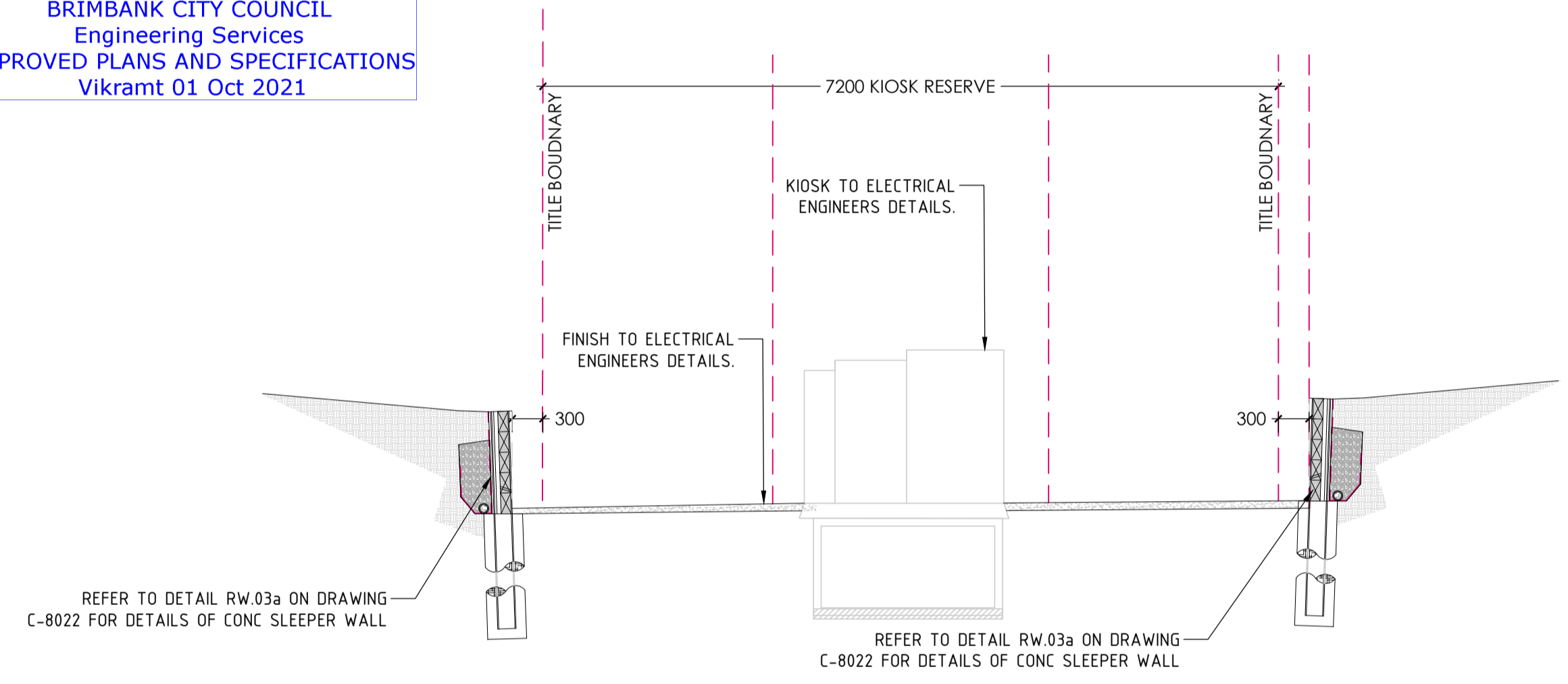
Project Number: 15019
Origin: CJA
Zone: 7C
Level: XX
File Type: DR
Rev: C
Number: 8022
Revision: 0

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S.01 HV KIOSK - SECTION VIEW
SCALE 1:50

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APPROVED PLANS AND SPECIFICATIONS
Vikramt 01 Oct 2021



S.02 HV KIOSK - SECTION VIEW
SCALE 1:50

Set Out Table for EASEMENT SET-OUT						
TAG		CHAINAGE	EASTING	NORTHING	LENGTH	BEARING
L3	START	0.00	31034.1089	5819206.794	7.20	269° 39' 15"
	END	7.20	31033.889	5819206.751		
L2	START	7.20	31033.889	5819206.751	7.20	179° 39' 15"
	END	14.40	31033.932	5819199.551		
L1	START	14.40	31033.932	5819199.551	7.20	089° 39' 15"
	END	21.60	31034.1132	5819199.595		

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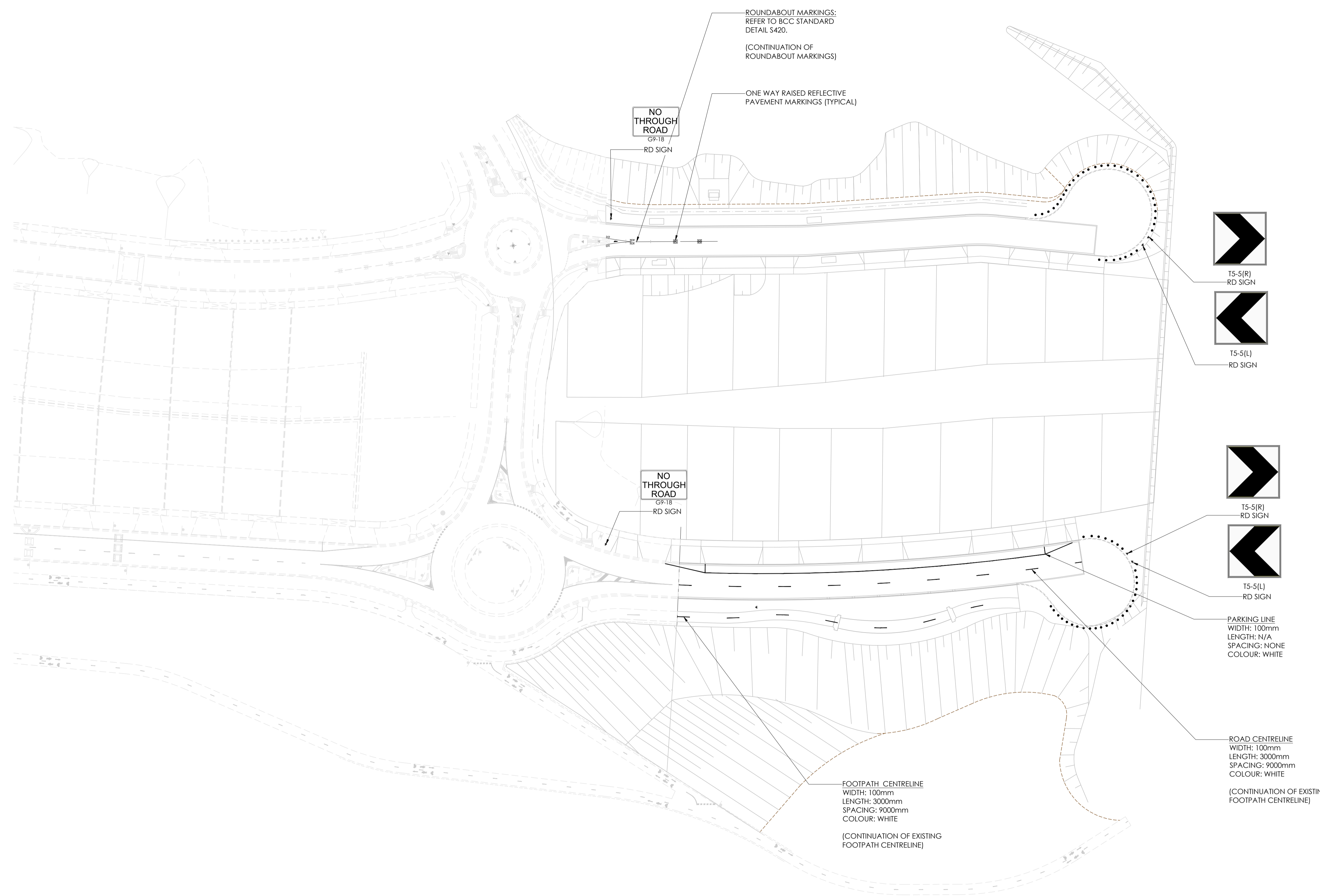
Deal before you dig, BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawn By: AE
Checked By: VB
Drawn Scale: 1:50 @ A1
Date of Issue: 31.03.21

Project Number: 15019
Origin: CJA
Zone: 7C
Level: XX
File Type: DR
Revs: C
Number: 8100
Revision: 0

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Vikramt 01 Oct 2021

- DRAWING NOTES:**
- ALL WORKS TO BE IN ACCORDANCE WITH AS 1742. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS AND TRAFFIC MANUALS.
 - LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED PRIOR TO FINAL LINEMARKING IS UNDERTAKEN.
 - ALL LINEMARKING TO LONG LIFE MATERIAL (DEGADUE).
 - ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO 'NEW' LINEMARKING BEING PLACED.
 - RAISED PAVEMENT MARKERS ARE TO BE PROVIDED IN ACCORDANCE WITH AS 1742.
 - ALL SIGNAGE TO BE INSTALLED AS PER BRIMBANK CITY COUNCIL DETAIL S520.



0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK
Revised	Date	Reason	Drawn	Checked

Disclaimer:
1. This drawing is copyright of CJ Arms. It must not be copied or reproduced without written consent from the owner.
2. Do not scale from this drawing. Only figured dimensions are to be taken from this drawing.
3. All contractors must visit site and be responsible for taking and checking all dimensions related to the works shown on the drawing prior to fabrication or setting out.

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MELBOURNE
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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Drawing Title: SIGNAGE AND LINEMARKING PLAN

Drawn By: JSS	Checked By: AK	Drawn Scale: 1:500 @ A1	Date of first issue: 31.03.21
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ISSUED FOR CONSTRUCTION

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	8500	0

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PLAN OF SUBDIVISION		EDITION 1	PS817489J
LOCATION OF LAND PARISH: CUT PAW PAW SECTION: 22 CROWN ALLOTMENT: A (PART) SECTION: B CROWN ALLOTMENT: 1 (PART), 2 (PART) & 3 (PART) TITLE REFERENCE: Vol. Fol. LAST PLAN REFERENCE: Lot BR on PS839289T POSTAL ADDRESS: Halong Drive (at time of subdivision) SUNSHINE NORTH 3020 MGA 94 CO-ORDINATES: E: 310 380 ZONE: 55 (of approx centre of land in plan) N: 5 819 230		COUNCIL NAME: BRIMBANK CITY COUNCIL	
VESTING OF ROADS AND/OR RESERVES		NOTATIONS	
IDENTIFIER	COUNCIL/BODY/PERSON	Lots 1 - 20 (both inclusive) are affected by one or more restrictions. Refer to Creation of Restrictions A B & C on Sheets 9 & 10 of this plan for details. LOTS IN THIS PLAN MAY BE AFFECTED BY ONE OR MORE OWNERS CORPORATIONS For details of any Owners Corporations including purpose, responsibility, entitlement & liability see owners corporation search report, owners corporation additional information and if applicable, owners corporation rules.	
Road R1 Road R2 Reserve No. 1	Brimbank City Council Brimbank City Council Powercor Australia Ltd		
NOTATIONS			
DEPTH LIMITATION: 15.24 metres below the surface applied to land as shown in Vol. 11151 Fol.184.			
SURVEY: This plan is based on partial survey. The position of Maribyrnong River boundary has been adopted in accordance with BP1583. The area of Lot E on this plan has been deducted from title.			
STAGING: This is not a staged subdivision. Planning Permit No. P186/2017			
RIVER VALLEY ESTATE - Release 7C Area of Release: 1.399ha No. of Lots: 20 Lots, Superlot AA (2 Parts) and Balance Lots E & F			
EASEMENT INFORMATION			
LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road)			
Easement Reference	Purpose	Width (Metres)	Origin
SEE SHEET 2 FOR EASEMENT DETAILS			
Urban Development Built Environments Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylorstds.com.au		SURVEYORS FILE REF: Ref. 02044-7C Ver. 11 Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 11	ORIGINAL SHEET SIZE: A3 SHEET 1 OF 10

			PS817489J
EASEMENT INFORMATION			
LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road)			
Easement Reference	Purpose	Width (Metres)	Origin
E-1	Sewerage	3	PS512193G
	Sewerage		PS527948T
E-2	Sewerage	3	PS527948T
	Sewerage		
E-3	Drainage	2	PS527948T
	Drainage		PS709369X
E-4	Sewerage	See Diagram	PS527948T
	Sewerage		
	Drainage		PS709369X
E-5	Sewerage	3	PS826697A
E-6	Drainage	5	PS709369X
E-7	Drainage	See Diag.	This Plan
E-8	Supply of Water (through underground pipes)	6m	This Plan
E-9	Power Line	2m	This Plan Section 88 Electricity Industry Act 2000
E-10	Drainage	2	This Plan
BRIMBANK CITY COUNCIL Engineering Services APPROVED PLANS AND SPECIFICATIONS Vikramt 01 Oct 2021			
Urban Development Built Environments Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylorstds.com.au		Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 11	ORIGINAL SHEET SIZE: A3 SHEET 2

0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK
Revised	Date	Reason	Drawn	Checked

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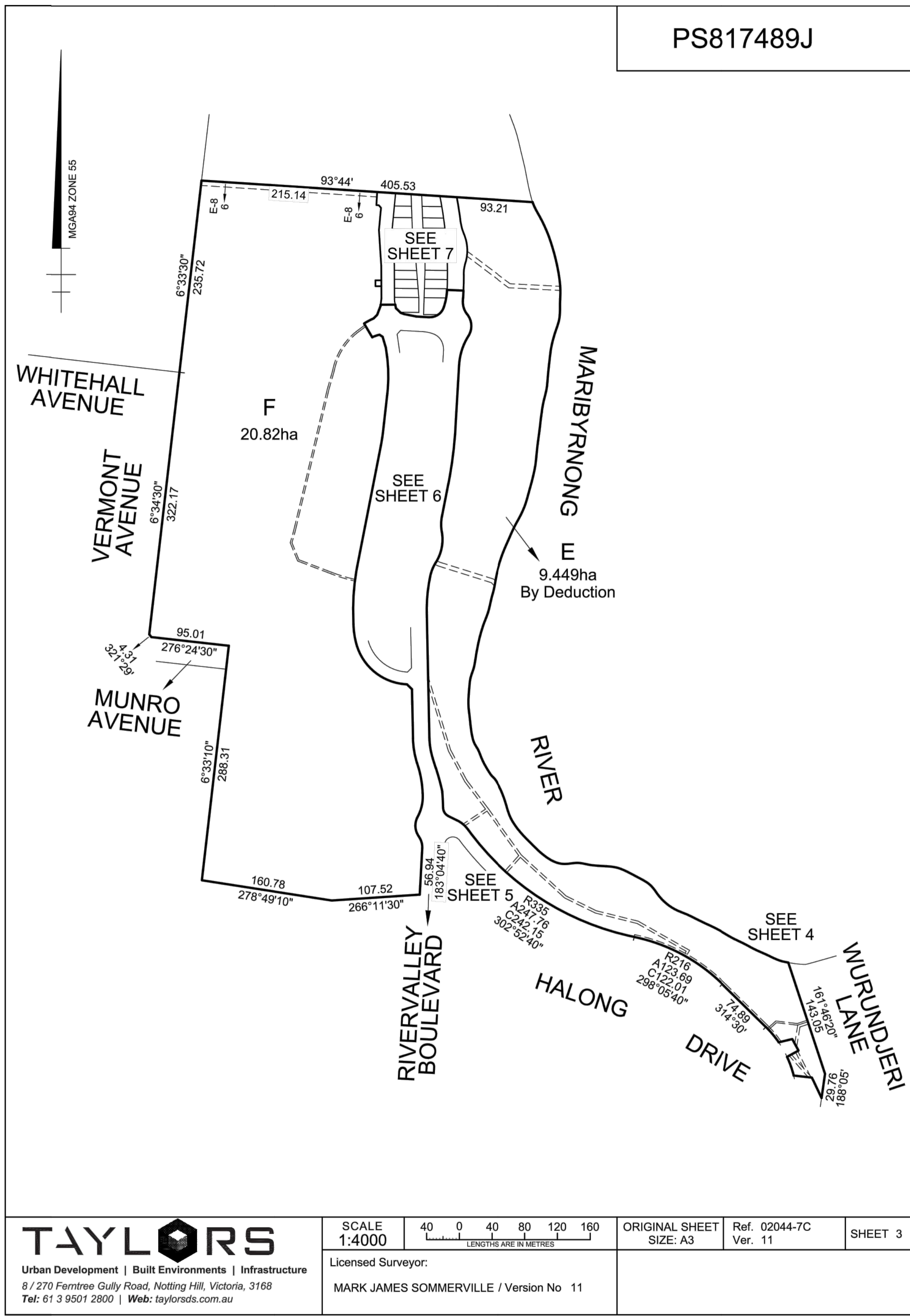
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Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Drawing Title: SUB-DIVISION PLANS
 SHEET (1 OF 4)
 Drawn By: JSS
 Checked By: BW
 Drawn Scale: N/A B A1
 Date of first issue: 31.03.21

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	9200	0

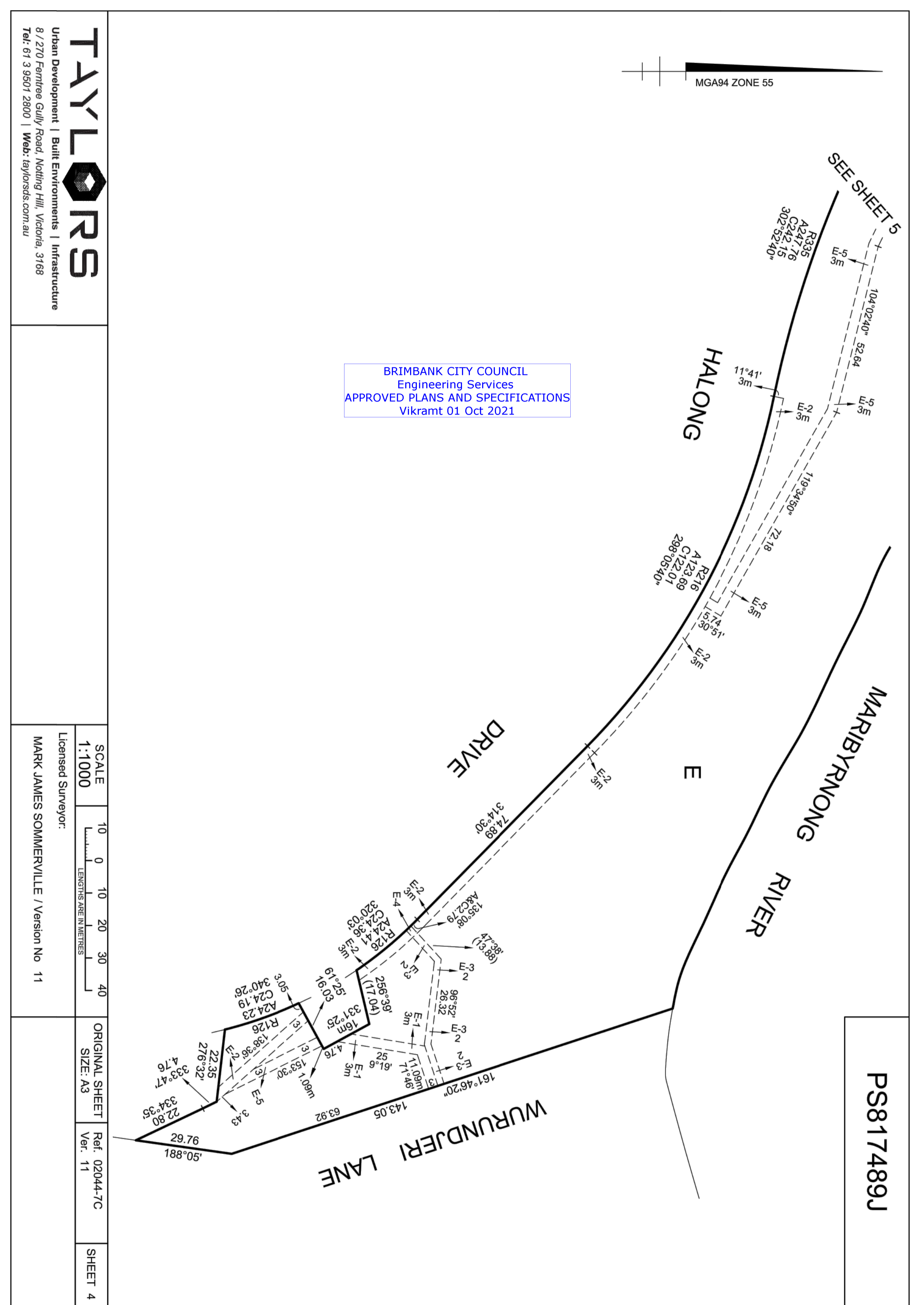
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TAYLORS
 Urban Development | Built Environments | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2800 | Web: taylorss.com.au

SCALE 1:4000	40 0 40 80 120 160 LENGTHS ARE IN METRES	ORIGINAL SHEET SIZE: A3	Ref. 02044-7C Ver. 11	SHEET 3
Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 11				



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SCALE 1:1000	0 10 20 30 40 LENGTHS ARE IN METRES	ORIGINAL SHEET SIZE: A3	Ref. 02044-7C Ver. 11
Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 11			

SHEET 4

Revised	Date	Reason	Drawn	Checked
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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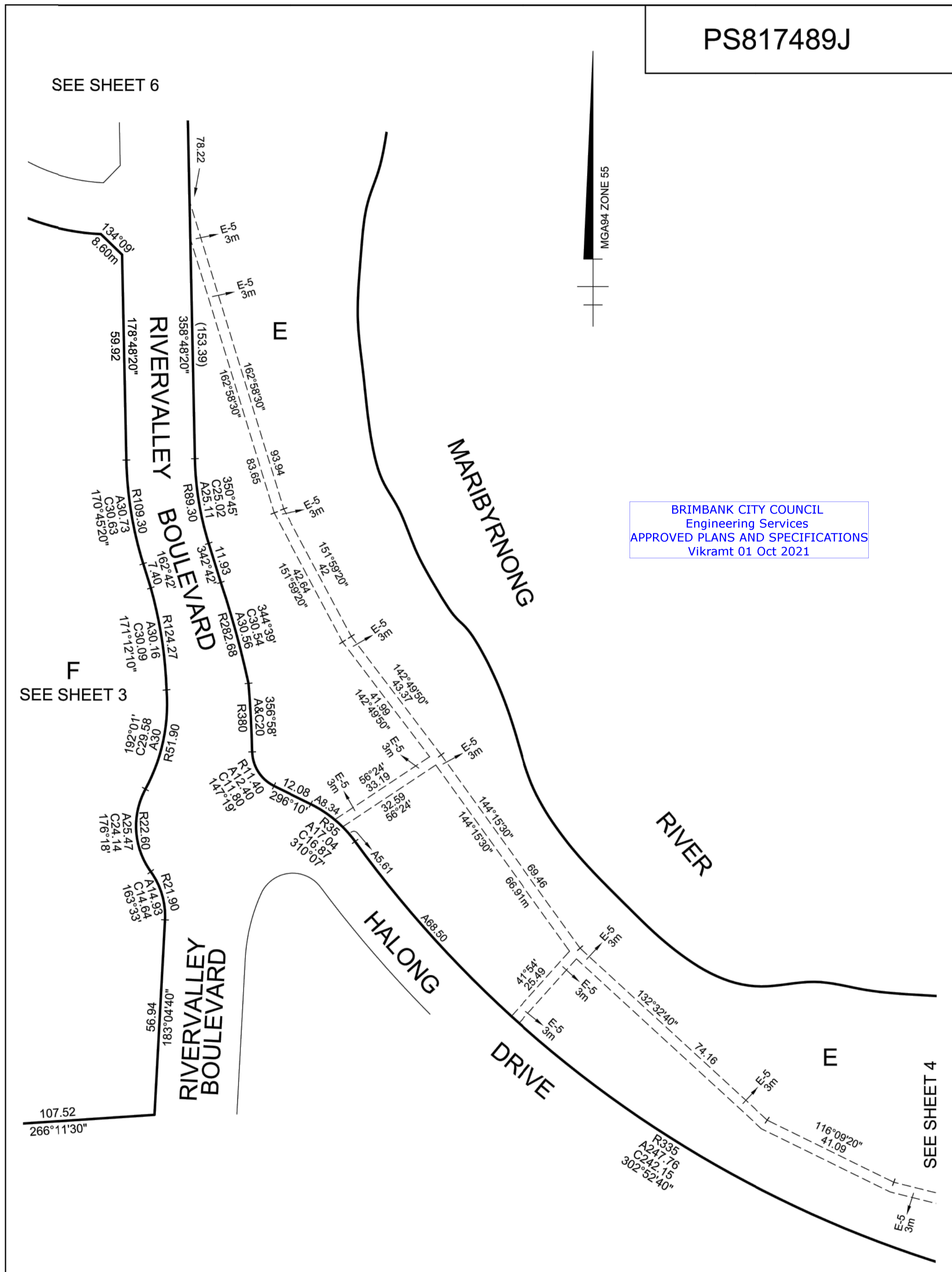
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Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for: ISSUED FOR CONSTRUCTION

Drawn By: JSS | Checked By: BW | Drawn Scale: N/A @ A1 | Date of first issue: 31.03.21

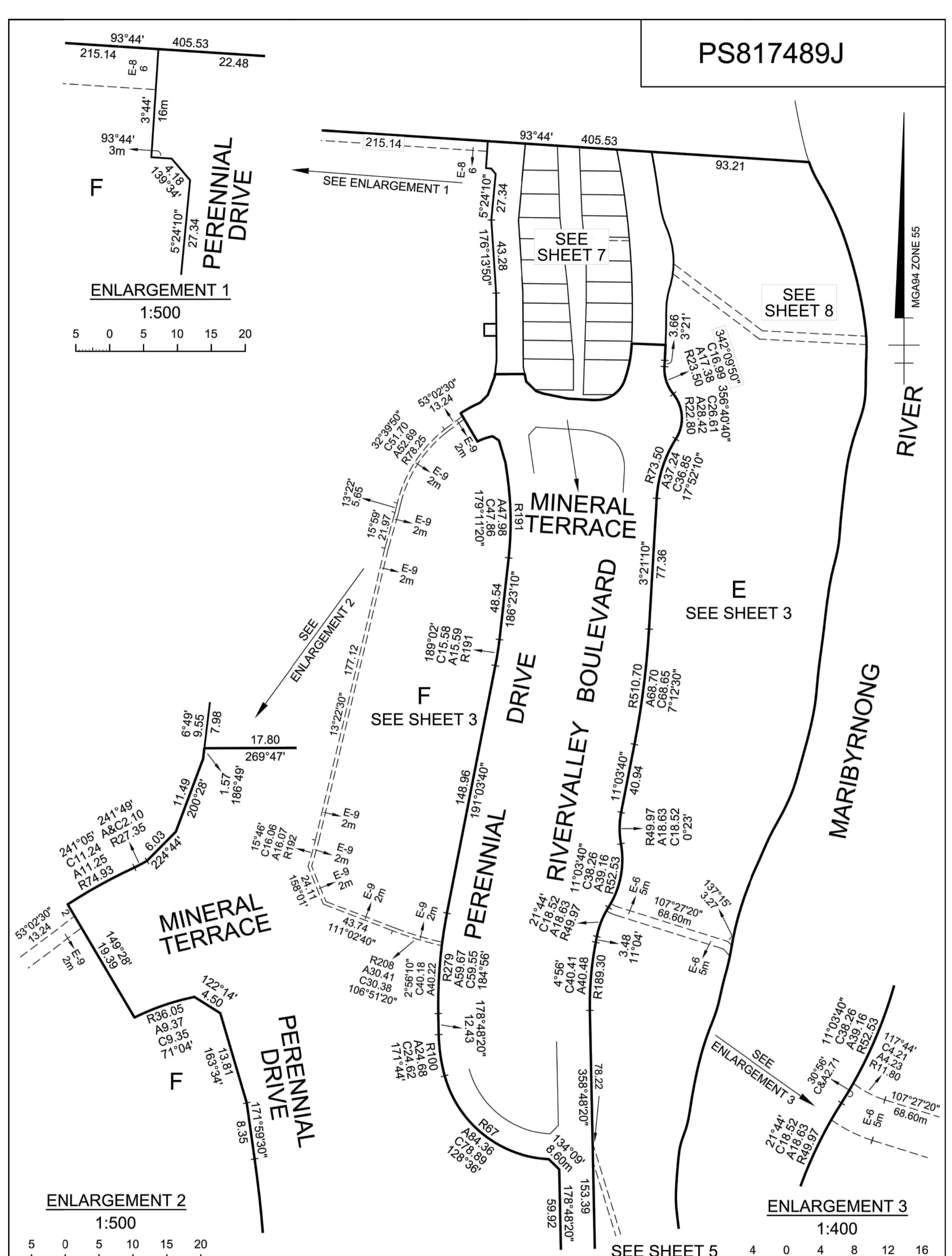
Project Number	Origin	Zone	Level	File Type	Role	Number	Revision
15019	CJA	7C	XX	DR	C	9201	0

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Vikramt 01 Oct 2021

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	<p>Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 11</p>			



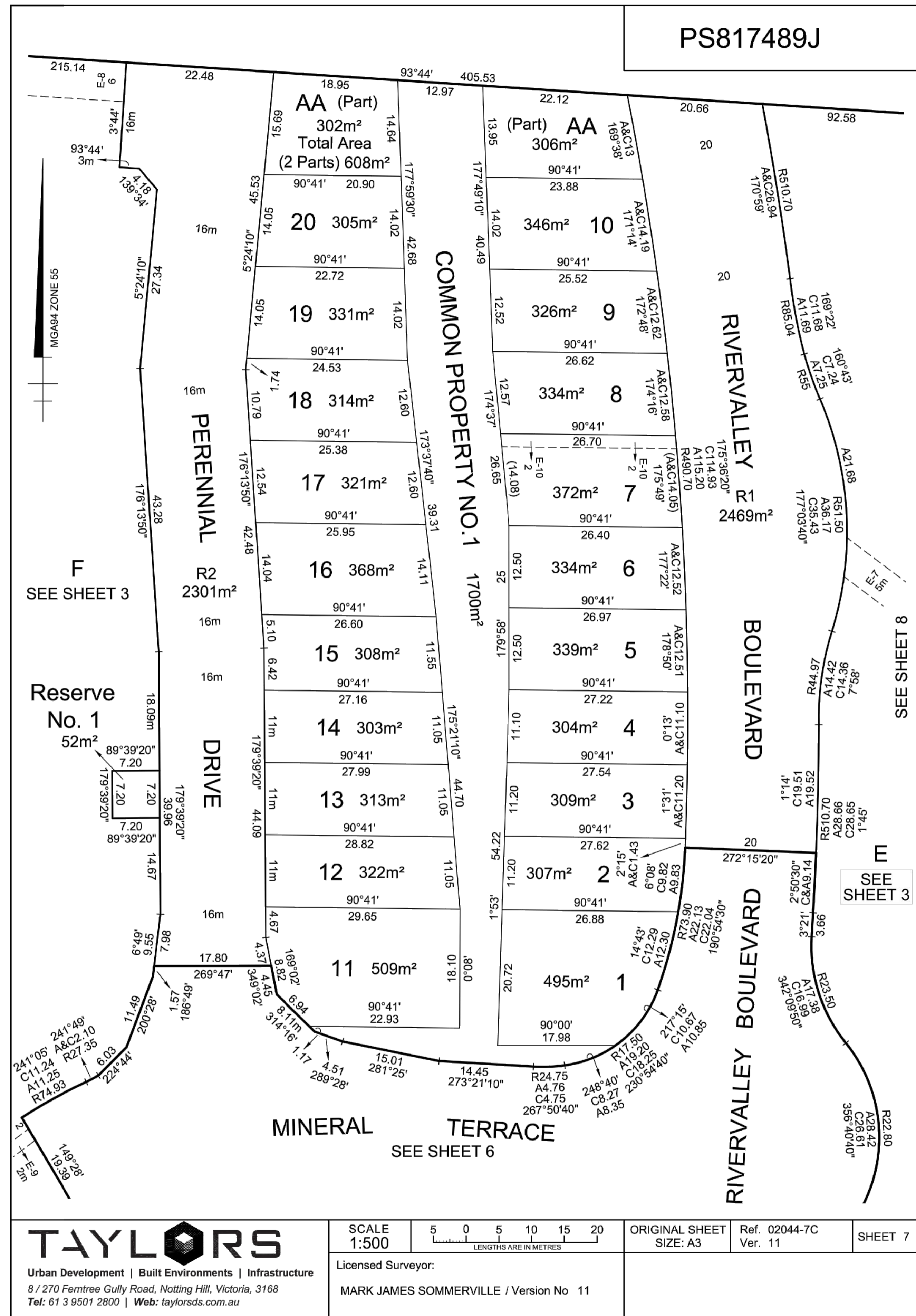
<p>Urban Development Built Environments Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylorstds.com.au</p>	<p>SCALE 1:2000</p>	<p>ORIGINAL SHEET SIZE: A3</p>	<p>Ref. 02044-7C Ver. 11</p>	<p>SHEET 6</p>
	<p>Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 11</p>			

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- This drawing should not be issued in part and must be read in conjunction with all appropriate specifications, notes pages, details and authority drawings as appropriate.
- Dial before you dig. BEWARE OF UNDERGROUND SERVICES. The location of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown.

Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for CONSTRUCTION

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	9202	0

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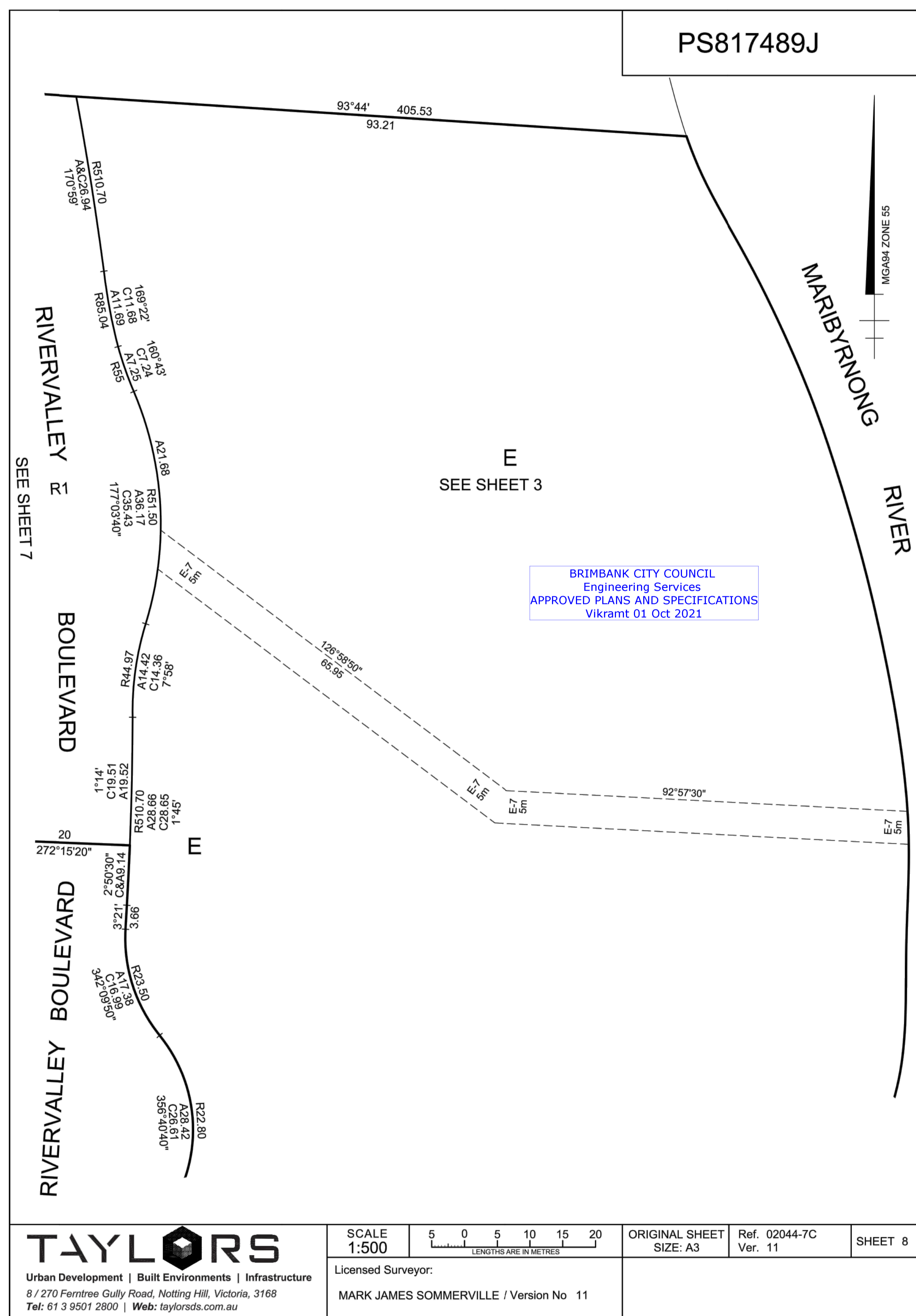


TAYLORS
 Urban Development | Built Environments | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2800 | Web: taylorsds.com.au

SCALE 1:500
 5 0 5 10 15 20
 LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE: A3 Ref. 02044-7C Ver. 11 SHEET 7

Licensed Surveyor:
 MARK JAMES SOMMERVILLE / Version No 11



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BRIMBANK CITY COUNCIL
 Engineering Services
 APPROVED PLANS AND SPECIFICATIONS
 Vikramt 01 Oct 2021

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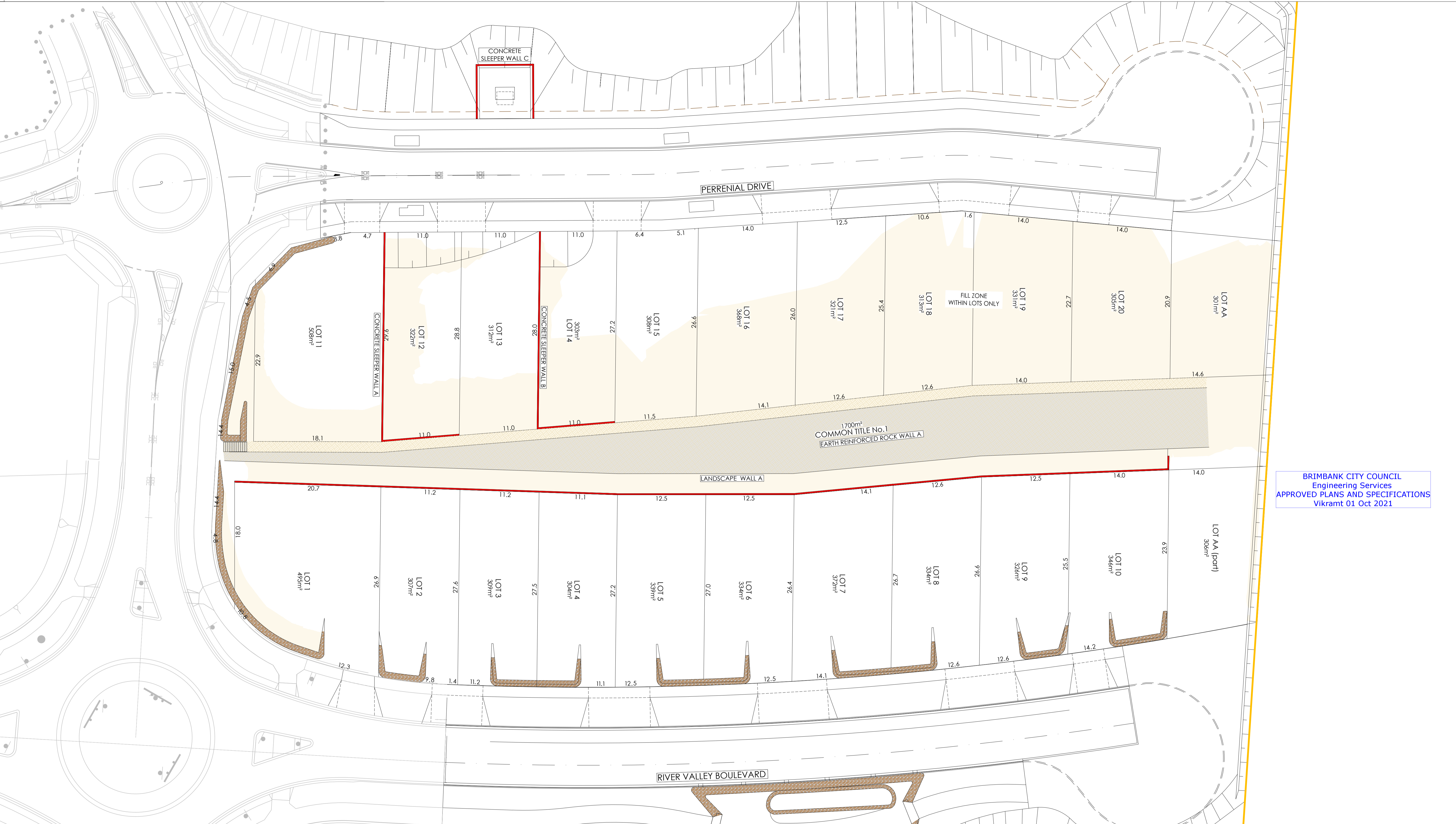
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MELBOURNE
 T: (03) 9583 2800 | E: info@cjarms.com | W: www.cjarms.com

Project: RIVER VALLEY - STAGE 7C	Drawing Title: SUB-DIVISION PLANS SHEET (4 OF 4)
Client: YOURLAND	Drawn By: JSS
Project Number: 15019	Checked By: BW
Issue: CJA	Drawn Scale: N/A B A1
Zone: 7C	Date of first issue: 31.03.21
Level: XX	Revision: 0
File Type: DR	
Revision: C	
Number: 9203	
Revision: 0	



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LEGEND

	FILL (+300mm)
	RETAINING WALL (CONCRETE SLEEPER)
	RETAINING WALL (ROCKWORK)

DRAWING NOTES:

- THIS PLAN DETAILS AREAS IN WHICH GREATER THAN 300mm OF FILL WILL BE PLACED ON TOP OF THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION AS A RESULT OF THE PROPOSED WORKS.
- THIS PLAN DOES NOT DETAIL ANY OTHER FILL MATERIAL THAT MAY HAVE BEEN PLACED WITHIN THE SUBDIVISION PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.
- IRRESPECTIVE OF THE DEPTH OF FILL DETAILED ON THIS PLAN, FOUNDATIONS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS AND WILL TAKE INTO ACCOUNT THE SOIL CLASSIFICATION AND SOIL REPORT PREPARED FOR EACH INDIVIDUAL LOT.
- THE EXTENT AND DEPTH OF FILL SHOWN ON THIS PLAN WILL BE CONFIRMED ON-SITE BY A GEOTECHNICAL INVESTIGATION BY A REGISTERED AND EXPERIENCED GEOTECHNICAL ENGINEER

REVISIONS

No.	Date	By	Reason
1	30.09.21	ES/ED	ISSUED FOR CONSTRUCTION

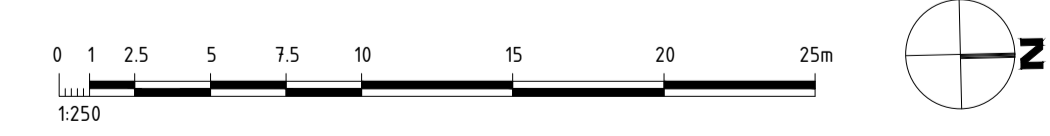
Drawn: [Signature] Checked: [Signature]

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ISSUED FOR CONSTRUCTION



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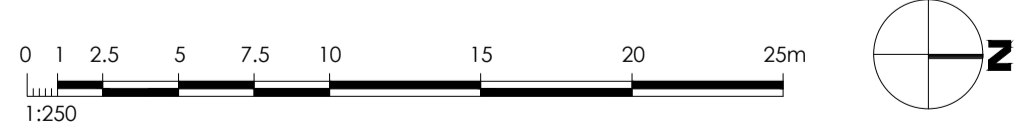
Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Project Number	Origin	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	7C	XX	DR	C	9900	0

Drawn By: JSS, Checked By: AC, Drawn Scale: 1:250 @ A1, Date of first issue: 22.07.20



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 Vikramt 01 Oct 2021



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ISSUED FOR CONSTRUCTION

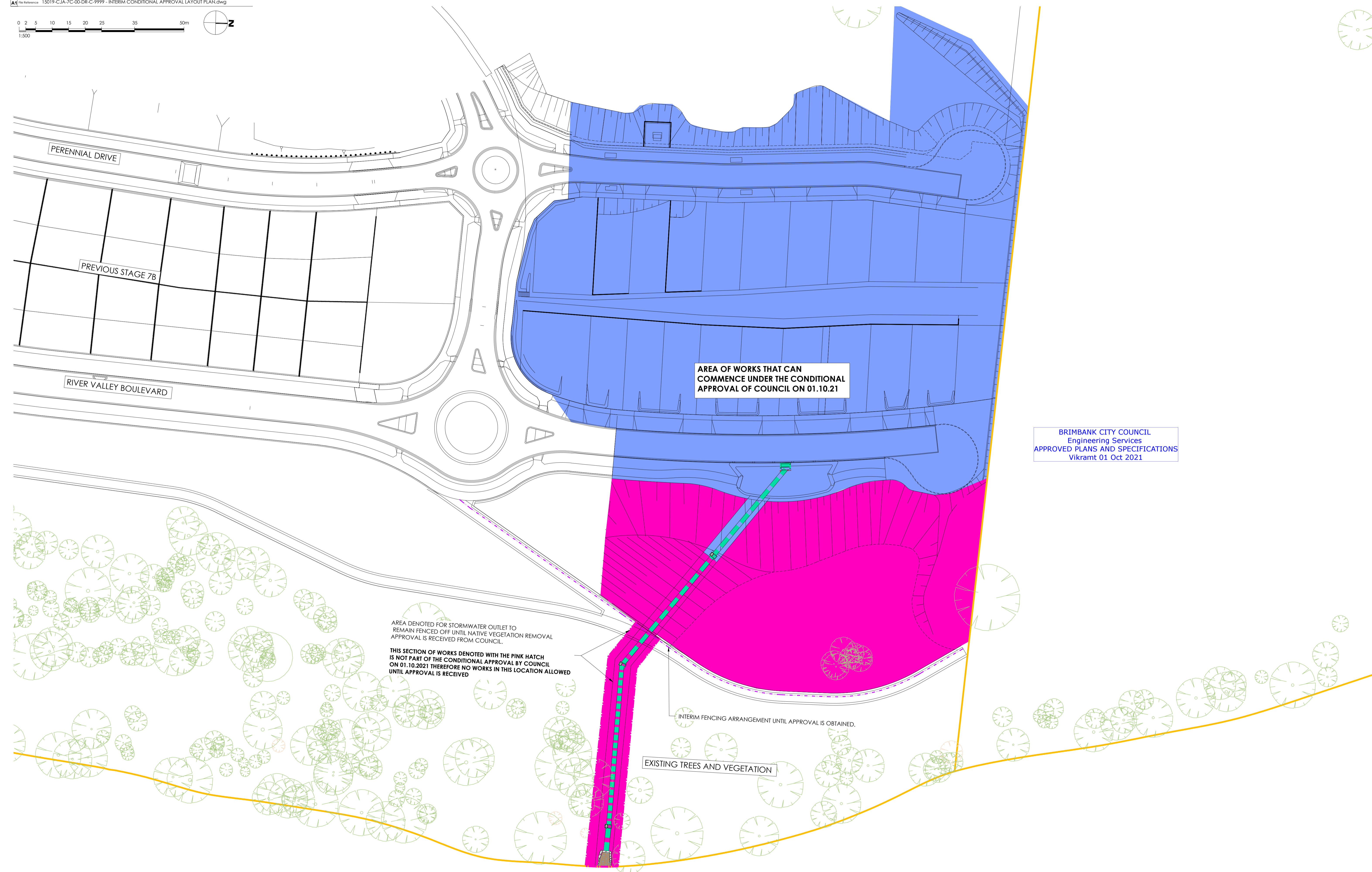
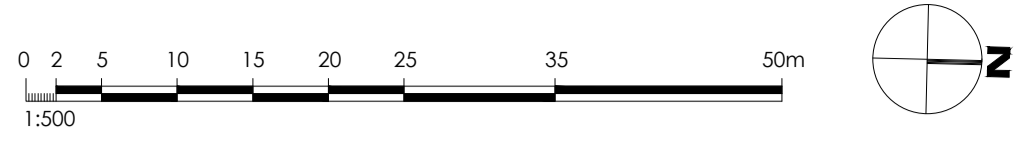


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Project: RIVER VALLEY - STAGE 7C
 Client: YOURLAND
 Issued for Construction

Drawn By: JSS	Checked By: AC	Drawn Scale: 1:250 @ A1	Date of first issue: 02.04.21
Project Number: 15019	Origin: CJA	Zone: 7C	Level: XX
File Type: DR	Rev: C	Number: 9995	Revision: 0

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Vikramt 01 Oct 2021

AREA DENOTED FOR STORMWATER OUTLET TO REMAIN FENCED OFF UNTIL NATIVE VEGETATION REMOVAL APPROVAL IS RECEIVED FROM COUNCIL.

THIS SECTION OF WORKS DENOTED WITH THE PINK HATCH IS NOT PART OF THE CONDITIONAL APPROVAL BY COUNCIL ON 01.10.2021 THEREFORE NO WORKS IN THIS LOCATION ALLOWED UNTIL APPROVAL IS RECEIVED

EXISTING TREES AND VEGETATION

INTERIM FENCING ARRANGEMENT UNTIL APPROVAL IS OBTAINED.

Rev	Date	Description	Drawn	Checked
1	01.10.21	EXTENT OF HATCHES AMENDED	JSS	AK
0	30.09.21	ISSUED FOR CONSTRUCTION	JSS	AK

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Project: RIVER VALLEY - STAGE 7C
Client: YOURLAND
Issued for Construction

Drawn By: JSS
Checked By: AK
Drawn Scale: 1:500 @ A1
Date of First Issue: 30.09.21

Project Number	Origin	Zone	Level	File Type	Base	Number	Revision
15019	CJA	7C	7C	DR	C	9999	1

VOLUMETRIC ANALYSIS				
NUMBER	COLOUR	MIN ELEVATION (m)	MAX ELEVATION (m)	2D AREA (m ²)
1	Red	-6.000	-5.000	125.6
2	Red	-5.000	-4.000	540.1
3	Red	-4.000	-3.000	1686.6
4	Orange	-3.000	-2.000	2519.1
5	Yellow	-2.000	-1.000	3980.5
6	Yellow	-1.000	0.000	5204.8
7	Green	0.000	1.000	4635.5
8	Green	1.000	2.000	1749.4
9	Cyan	2.000	3.000	763.6
10	Blue	3.000	4.000	305.1
11	Blue	4.000	5.000	284.0
12	Purple	5.000	6.000	283.4
13	Purple	6.000	7.000	125.3

DRAWING LEGEND	
× P0.00	DEPTH OF CUT
× E0.00	DEPTH OF FILL
—	PROPOSED MAJOR CONTOUR (2.5m)
—	PROPOSED MINOR CONTOUR (0.5m)
—	EXISTING MAJOR CONTOUR (2.5m)
—	INDICATIVE ALIGNMENT OF PROPOSED SITE FENCE, REFER TO CONTRACTOR'S ECEMP.
—	PROPOSED CATCH DRAIN

BULK EARTHWORKS NOTES

- REFER TO DRAWING EW-1001 & TONKIN + TALOR REPORT 100780.R02.V2 FOR EARTHWORKS SPECIFICATION.
- THE CONTRACTOR SHALL INSTALL ALL APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EPA GUIDELINES PRIOR TO COMMENCING STRIPPING, AND IN ACCORDANCE WITH THE APPROVED ECEMP.
- ALL WORKS SHALL BE IN ACCORDANCE WITH THE ENDORSED/APPROVED MANAGEMENT PLANS AS NOTED.
- BULK EARTHWORKS VOLUMES ARE BASED ON A SITE STRIP OF 200mm. STRIPPING OF ANY ORGANIC OR UNSUITABLE MATERIAL SHALL BE ALLOWED FOR AS DIRECTED BY THE SUPERVISING GEOTECHNICAL AUTHORITY.
- VOLUMES HAVE BEEN CALCULATED ON THE BULKING LEVELS SET BELOW THE FINISHED SURFACE LEVELS BASED ON THE GEOTECHNICAL PAVEMENT DESIGN (TONKIN + TAYLOR #100780.R02.V2) AND AS BELOW:
 - MINUS 150mm LANDSCAPE BATTERS AND FOOTPATHS
 - MINUS 175mm SHARED FOOTPATHS
 - MINUS 370mm PAVEMENT THICKNESS PROFILE FOR PERENNIAL DRIVE WHERE FOUNDED ON ROCK SUBGRADE (inc 400mm HORIZONTAL EXTENSION FOR KERB SUBBASE)
 - MINUS 715mm PAVEMENT THICKNESS PROFILE FOR PERENNIAL DRIVE, WHERE FOUNDED ON CLAY SUBGRADE (inc 400mm HORIZONTAL EXTENSION FOR KERB SUBBASE)
 - MINUS AND 825mm RIVER VALLEY BOULEVARD, WHERE FOUNDED ON CLAY SUBGRADE. (inc 400mm HORIZONTAL EXTENSION FOR KERB SUBBASE)
 - MINUS 230mm TEMPORARY TURNING HEADS
 - RETAINING WALL THICKNESSES NOMINATED ON THE PLAN
 - NO TOPSOIL DRESSING OF LOTS

ALLOWANCES SHALL BE MADE BY THE CONTRACTOR TO TRANSITION FROM THE BULKING DEPTHS BETWEEN ZONES.

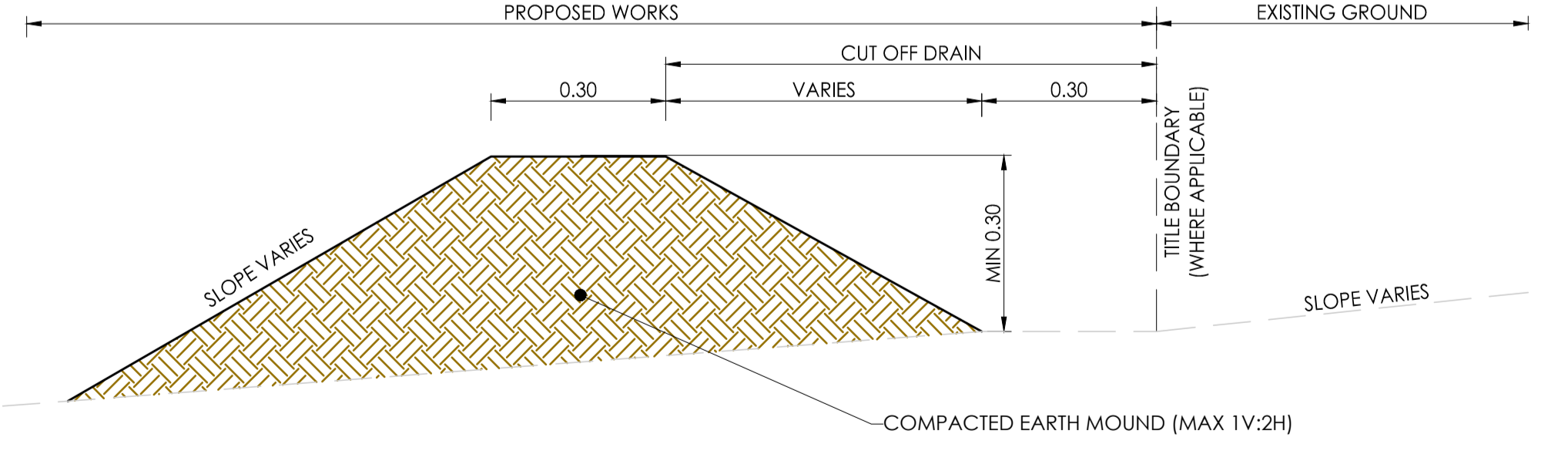
- THE APPROXIMATE SITE EARTHWORKS VOLUMES BASED ON THE BULK EARTHWORKS SURFACE COMPARISON TO THE STRIPPED SITE (MINUS 200mm) ARE:
 - CUT: 23 900m³
 - FILL: 13 300m³
 - NET: 10 600m³ (EXCESS MATERIAL)

EXCESS MATERIAL SHALL BE STOCKPILED ON SITE IN ACCORDANCE WITH THE APPROVED ECEMP.

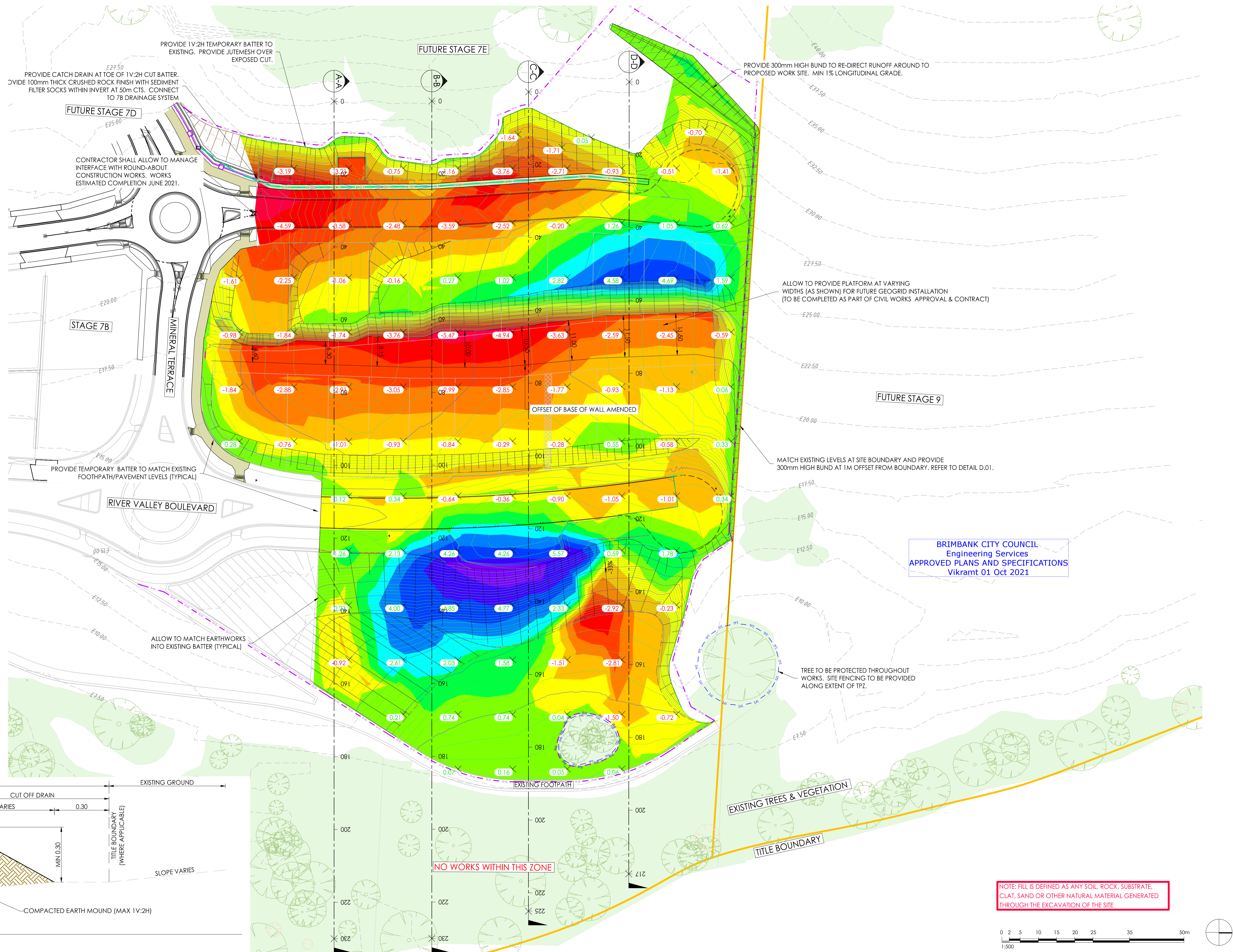
WHERE DIRECTED BY THE SUPERINTENDENT - EXPORT MATERIAL TO THE BORAL DEER PARK FACILITY VIA THE ACCESS ROUTES NOTED ON THE ENDORSED ECEMP. THE RESPONSIBLE AUTHORITY SHALL BE NOTIFIED SHOULD THE DISPOSAL SITE VARY TO THAT APPROVED.

NOTE: THE ABOVE VOLUMES DO NOT TAKE INTO ACCOUNT RECTIFICATION OF UNSUITABLE SUBGRADE ETC. THE CONTRACTOR SHALL MAKE APPROPRIATE ALLOWANCES FOR MANAGEMENT OF ADDITIONAL SPOIL.

THE ABOVE VOLUMES ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL SATISFY THEMSELVES AS TO THEIR ACCURACY.



D.01 BOUNDARY BUND DETAIL - TYPICAL DETAIL
SCALE 1:10



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Vikramt 01 Oct 2021

NOTE: FILL IS DEFINED AS ANY SOIL, ROCK, SUBSTRATE, CLAY, SAND OR OTHER NATURAL MATERIAL GENERATED THROUGH THE EXCAVATION OF THE SITE

Revised	Date	By	Reason	Checked
C03	12/08/21	JSS	ACCURACY OF EXISTING GROUND AMENDED AND VOLUMES UPDATED	AK
C02	28/04/21	JSS	CONSTRUCTION ISSUE - WALL OFFSET AMENDED	AK
C01	16/03/21	JSS	CONSTRUCTION ISSUE	AK
T01	30/09/20	JSS	TENDER ISSUE	AK
F01	21/08/20	JSS	DEVELOP	AK

GENERAL NOTES:

- BCC ENVIRONMENTAL TEAM TO BE NOTIFIED 7 DAYS- PRIOR TO COMMENCEMENT OF WORKS.
- ALL RUBBISH STOCKPILES TO BE DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS.
- TEMPORARY SLOPE PROTECTION OF PRIVATE PROPERTIES AND RESERVE AREA TO BE PROVIDED TO COUNCILS SATISFACTION PRIOR TO PC/SoC, WHICHEVER IS EARLIER.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INDUCTED INTO THE REQUIREMENTS OF THIS PLAN AND THE ASSOCIATED REFERENCED MANAGEMENT PLANS.

ENDORSED PLAN REFERENCES:

- ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE ENDORSED PLANS AND REPORTS UNDER PLANNING PERMIT P0186/2017, INCLUDING BUT NOT LIMITED TO:
 - REF: FROG SALVAGE PLAN - 8135 [30.1] [ENDORSED 25/01/2021 BY SUKH KAUR]
 - REF: BL&A WEED MANAGEMENT PLAN - 8135 [28.1] [ENDORSED 25/01/2021 BY SUKH KAUR]
 - REF: GOLDERS ENDORSED EMP SOIL MANAGEMENT PLAN - 1528405-011-R [Rev 3] [ENDORSED 03/02/2021 BY SUKH KAUR]
 - REF: ENDORSED ECEMP - DEC 2020 [Rev 5] [ENDORSED 10/12/2020 BY SUKH KAUR]
 - REF: EXTENT CULTURAL HERITAGE MANAGEMENT PLAN - AV #14285

EARLY WORKS PACKAGE

Project: RIVER VALLEY - STAGE 7C

Client: YOURLAND

Species of Use: FOR CONSTRUCTION

Drawn By: JSS | Checked By: AK | Drawn Scale: 1:250 @ A1 | Date of First Issue: 21.08.2020

Project Number	Orig	Zone	Level	File Type	Rev	Number	Revision
15019	CJA	XX	XX	DWG	EW	3000	C03

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