

RIVER VALLEY ESTATE

STAGE 7B

SUNSHINE NORTH

BRIMBANK CITY COUNCIL

FOR

ATLANTIC LINK PTY LTD



RIVER VALLEY

CIVIL DRAWINGS

ROAD AND DRAINAGE

DCE REF : 12196

CONSTRUCTION ISSUE



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ENGINEERS

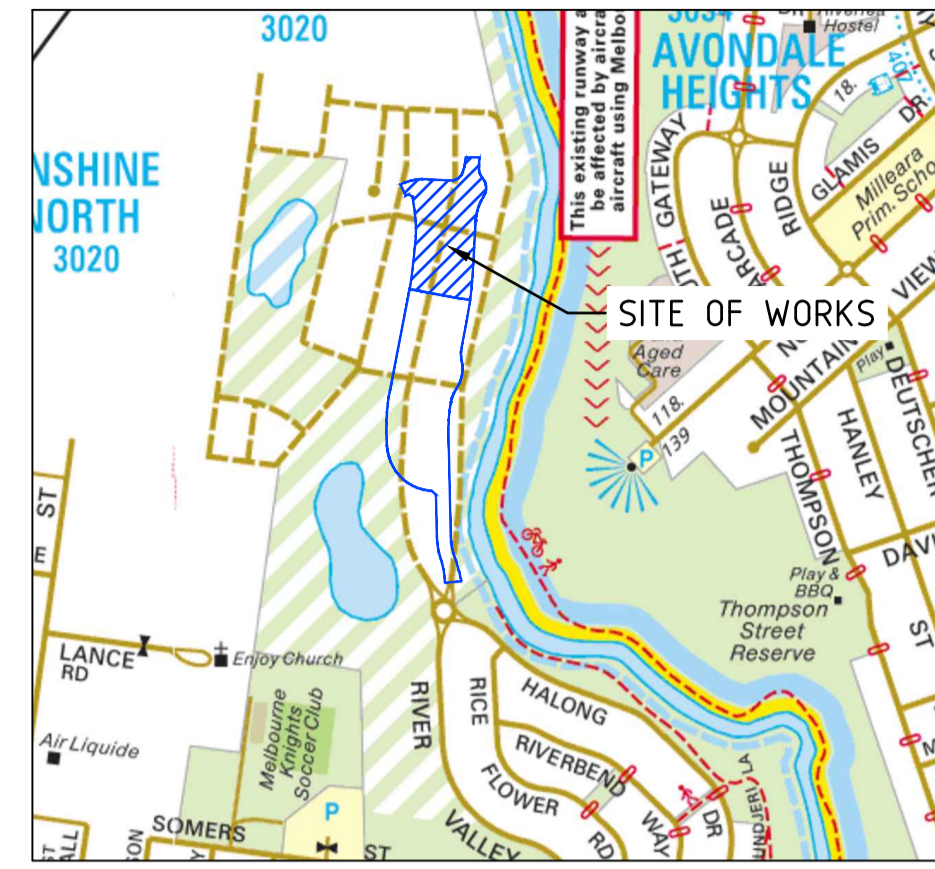
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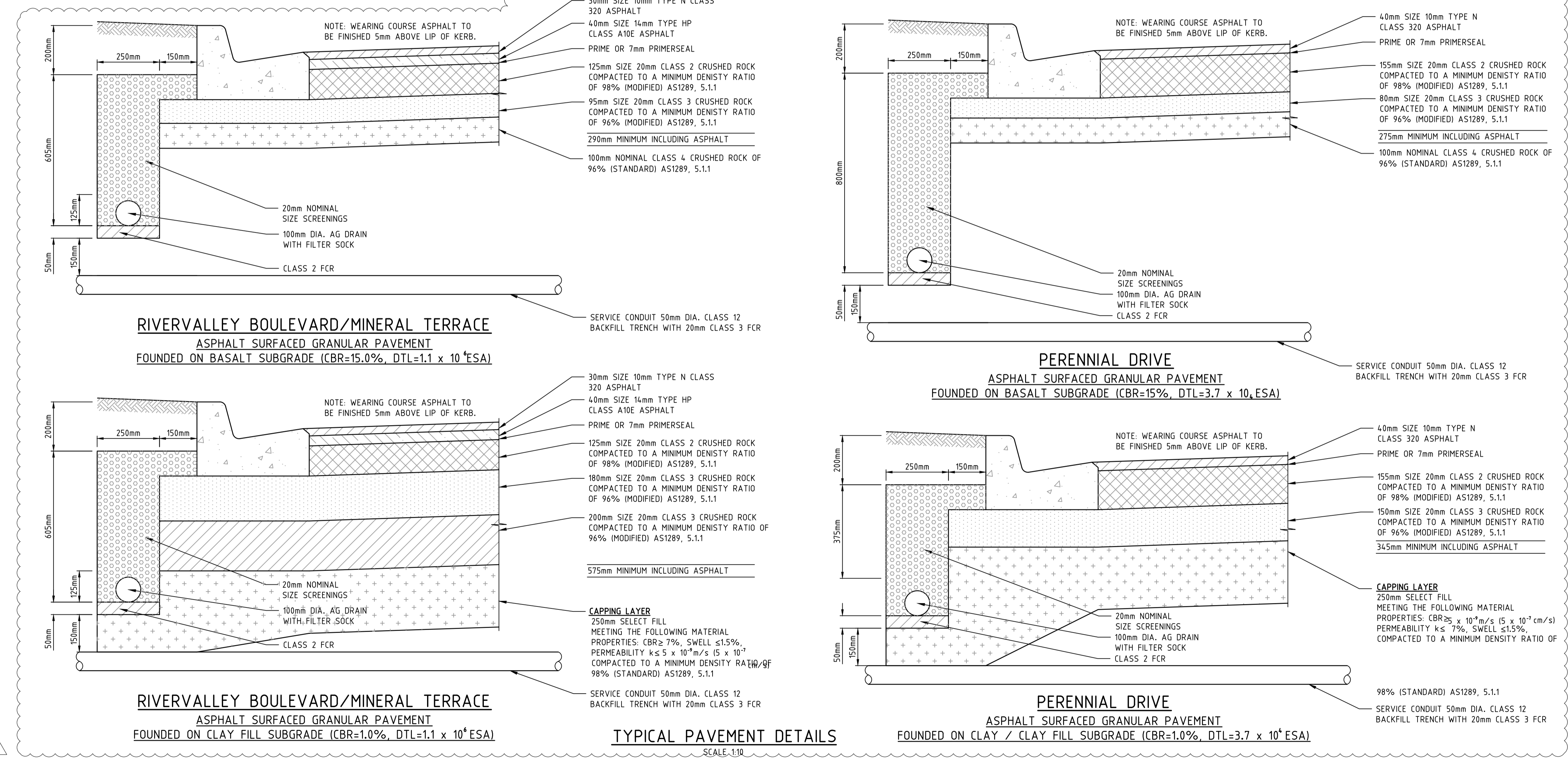
GENERAL NOTES

- 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 HIS REPRESENTATIVE.
- 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.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED PRIOR TO THE COMMENCEMENT OF WORKS.
- COUNCIL'S SURVEILLANCE COORDINATOR MUST BE NOTIFIED IN WRITING, NO LESS THAN SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
- SUBMIT APPLICATION FOR TEMPORARY ACCESS TO SITE FOR APPROVAL BY COUNCIL'S SURVEILLANCE COORDINATOR BEFORE ANY COMMENCEMENT OF ANY WORKS COMMENCING.
- CONTRACTORS ARE RESPONSIBLE WITH RESPECT TO SAFETY OF WORK ON SITE AND APPROPRIATE LEGISLATION.
- FOOTPATHS ARE TO BE OFFSET 25MM FROM THE PROPERTY LINE AND CONSTRUCTED AS PER BRIMBANK STANDARD DRAWING 5350.
- VICROADS' ROADWORK SIGNAGE CODE OF PRACTICE WHICH COMPLIES WITH AUSTRALIAN STANDARDS 1742.3-1996 IS TO BE ADHERED TO DURING CONSTRUCTION WORKS.
- 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.
- ALL CONCRETE DRAIN PIPES TO BE CLASS 2 SPIGOT & SOCKET WITH RUBBER RING UNLESS OTHERWISE SPECIFIED.
- CCTV AND LASER PROFILING OF COMPLETED DRAINS SHALL BE UNDERTAKEN BY THE CONTRACTOR AS PER WSA 05-2008 VER.2.2 AND SUBMIT TO COUNCIL PRIOR TO PRACTICAL COMPLETION OR STATEMENT OF COMPLIANCE WHICHEVER IS EARLIER.
- SERVICE CONDUITS ARE TO BE PROVIDED UNDER FOOTPATHS EXTENDING INTO ALLOTMENTS - LOCATION TO BE MARKED ON THE FOOTPATH AND KERB.
- 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 E.G. VICROADS STANDARDS.
- CONDUITS ARE TO BE CLEARLY MARKED ON THE KERB AND FOOTPATH FOR EASY IDENTIFICATION.
- 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.
- SERVICES TO BE INSTALLED PRIOR TO KERB AND CHANNEL.
- TMP TO BE SUBMITTED TO COUNCIL'S SURVEILLANCE AND/OR TRAFFIC & TRANSPORT SECTION 7 DAYS PRIOR TO COMMENCEMENT OF WORKS FOR ACCEPTANCE.
- STREET LIGHTING SHALL BE LED 18W FOR STANDARD FITTING AND LED 16W TORNAK/TORNAK ALPHA FOR DECORATIVE NON-STANDARD FITTING.
- THE DRAWINGS MUST NOT BE SCALED/MASURED FROM HARD OR DIGITAL COPIES.
- MINIMUM EARTHWORKS FILLING REQUIREMENTS FOR ALL ROAD WORKS.
 - ROAD FILLING WORKS SHALL BE IN ACCORDANCE WITH SECTION 204 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENT.
 - TYPE A FILL IS REQUIRED FOR THE LAST 200MM LAYER UNDER ROAD PAVEMENTS, FOOTPATHS, VEHICLE CROSSINGS, NATURE STRIPS AND OTHER ROAD STRUCTURES.
 - 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.
 - NATURE STRIP WIDTHS SHALL BE FINISHED OFF WITH 100MM THICK TOP SOIL MATERIAL RECOVERED FROM STRIPPING PRIOR TO THE CONSTRUCTION OF EARTHWORKS OR OTHER IMPORTED TOPSOIL TO COMPLY WITH COUNCIL'S LANDSCAPE REQUIREMENTS.
- FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER, AND NEAR-VERTICAL BASALT FACES SHALL BE LOOSENEO OR FLATTENED.
- FILL MATERIAL TO BE IMPORTED TO SITE WILL BE SUBJECT TO THE FOLLOWING CONTROLS:
 - 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.
 - 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.
- 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.

- EARTHWORKS & SEDIMENTATION CONTROL**
 - NO POLLUTED OR SEDIMENT LADEN RUNOFF IS TO BE DISCHARGED DIRECTLY OR INDIRECTLY INTO EXISTING DRAINAGE SYSTEM DURING OR AFTER THE WORKS.
 - CONTRACTOR TO PREPARE A SITE MANAGEMENT PLAN (SMP) AND FORWARD TO THE CONSULTANT 3 WEEKS PRIOR TO COMMENCING OF ANY WORKS. SMP IS TO BE PREPARED IN ACCORDANCE WITH THE MELBOURNE WATER CORPORATION SMP KIT PLAN SUBJECT TO BRIMBANK CITY COUNCIL AND MELBOURNE WATER APPROVAL.
 - COMPACTION TESTING OF FILLED AREAS TO COMPLY WITH AS3798-1996 APPENDIX B, LEVEL 1 AND GEOTECHNICAL REPORT AND SHALL BE ARRANGED BY THE CONTRACTOR WITH THE CERTIFYING CONSULTANT AT THE CONTRACTORS EXPENSE.
 - FILLING DEPTHS IN EXCESS OF 200mm ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL SURFACE LEVELS SHOWN ON THE DRAWINGS.
 - STOCKPILING OF MATERIAL IS TO BE PLACED AS DIRECTED BY THE SUPERINTENDENT. NO TOPSOIL IS TO BE REMOVED FROM SITE.
 - DISTURBED AREAS WITHIN DESIGNATED GRASSSED FLOODWAY ZONES MUST BE TOPSOILED AND HYDROMULCH SEEDED WITH APPROVED GRASSES AND FERTILIZER. TEMPORARY FENCING MUST BE ERECTED TO PREVENT ACCESS TO TREATED AREAS.
- REQUIREMENTS PRIOR TO COMMENCEMENT OF WORKS:**
 - AN ENVIRONMENTAL MANAGEMENT PLAN MUST BE SUBMITTED AND APPROVED BY BCC ENVIRONMENTAL TEAM AS PER PLANNING PERMIT CONDITION (PPC) No. 5 & 34.
 - AN ENVIRONMENTAL SITE ASSESSMENT REPORT MUST BE SUBMITTED AND APPROVED BY BCC ENVIRONMENTAL TEAM AS PER PPC No. 6 AND AUDIT REPORT PPC No.7
 - PRIOR TO THE REMOVAL OF ANY NATIVE VEGETATION, CLEARANCE MUST BE OBTAINED FROM THE BCC ENVIRONMENTAL TEAM AS PER PPC No. 19A
 - A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN MUST BE SUBMITTED TO AND APPROVED BY THE BCC ENVIRONMENTAL AND SURVEILLANCE TEAMS AS PER PPC No. 19B
- ABORIGINAL PROTECTION REQUIREMENT MUST BE ADHERED TO AS PER PPC No. 12 & 13**
- REQUIREMENTS DURING AND/OR AFTER CONSTRUCTION STAGES OF WORKS:**
 - A LANDSCAPE MASTER PLAN FOR THE STREETS WITHIN ALL ROAD RESERVES AND INCLUDING GRASSING OF NATURESTRIPS MUST BE SUBMITTED TO BCC URBAN DESIGN TEAM PRIOR TO PLAN OF SUBDIVISION IS CERTIFIED AS PER PPC No. 15
 - AN APPROVED FORM OF BARRIER TO BE INSTALLED AT SECTIONS OF ROAD RESERVATIONS WHERE ACCESS IS NOT PERMITTED ONTO CYCLISTS AS PER PPC No. 24
 - PROVIDE ROAD SAFETY AUDIT (RSA) AFTER CONSTRUCTION AS PER PPC No. 30.
 - SILT BARRIERS TO BE PROVIDED AS PER PPC No. 42



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02	12196TD02	TYPICAL DETAILS
03-04	12196TD02	TYPICAL SECTIONS, SHEETS 01 TO 02
05	12196SP01	STAGING PLAN
06	12196DP01	DETAIL PLAN
07-12	12196ID01-06	INTERSECTION DETAILS, SHEETS 01 TO 06
13-14	12196SP01-02	SET OUT DETAILS, SHEETS 01 TO 02
15	12196LM01	SIGNAGE AND LINEMARKING PLAN
16-20	12196LS01-05	LONGITUDINAL SECTIONS, SHEETS 01 TO 05
21-27	12196XS01-07	RIVERVALLEY BOULEVARD CROSS SECTIONS, SHEETS 01 TO 07
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49	12196EW01	BULK EARTHWORKS PLAN
50-51	12196POS01-02	PLAN OF SUBDIVISION, SHEETS 01 TO 02
52	12196FP01	FILL PLAN
53	12196EF01	EXISTING FEATURES PLAN



Drawn: E. C. J. Adams
 Date: 23/06/17
 Drawn: J. Burns
 Date: 23/06/17
 Drawn: T. Thavendran
 Date: 05/07/17
 Drawn: R. Mason
 Date: 29/01/18
 Drawn: T. Liakopoulos
 Date: 01/02/18

NO	AMENDMENTS	DATE	APP'D.
2	EARTHWORKS DETAILS REVISED	16/05/18	TL
1	COUNCIL COMMENTS 23/02/18	05/03/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B. ADAMS
 Date 23/06/17
 AN 2591001
 Designed J. BURNS
 Date 23/06/17
 AN 1631470
 Verified T. THAVENDRAN
 Date 05/07/17
 AN 943781
 Audited R. MASON
 Date 29/01/18
 AN 705138
 Approved T. LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY

Coords: MGA
Levels: AHD

Scale @ A1/A3 NTS

ATLANTIC LINK PTY LTD

RIVER VALLEY ESTATE - STAGE 7B

SUNSHINE NORTH

LOCALITY PLAN, INDEX, TYPICAL DETAILS

AND NOTES

Drawing No. 12196TD01 Rev 2

Sheet No. 01 **CONSTRUCTION**

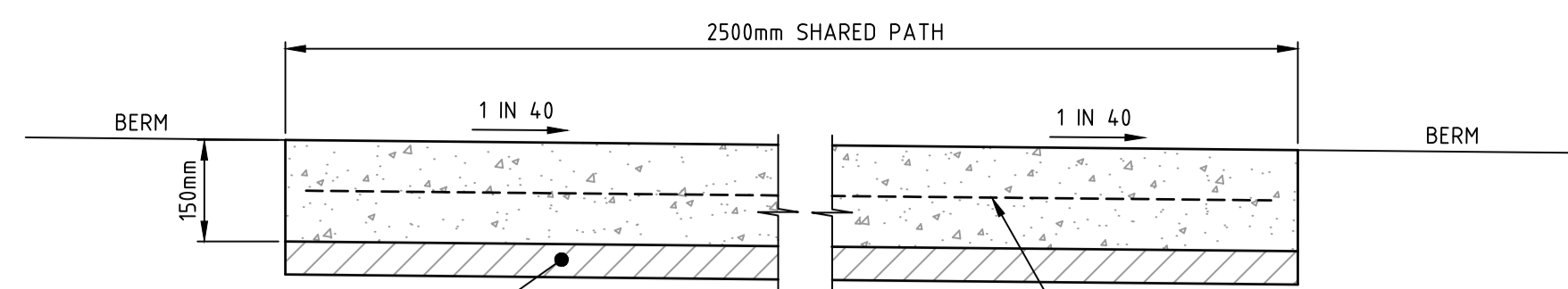
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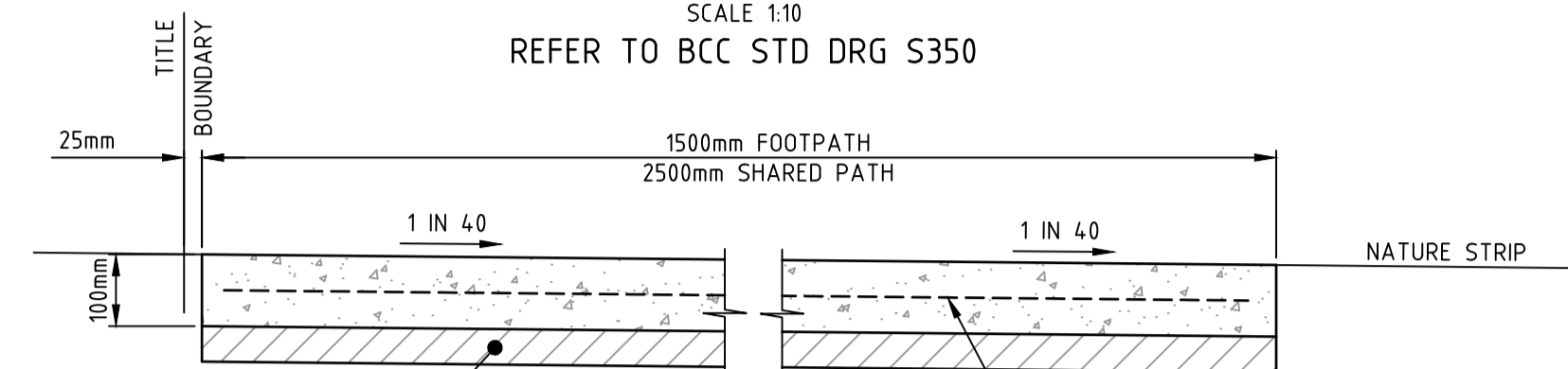
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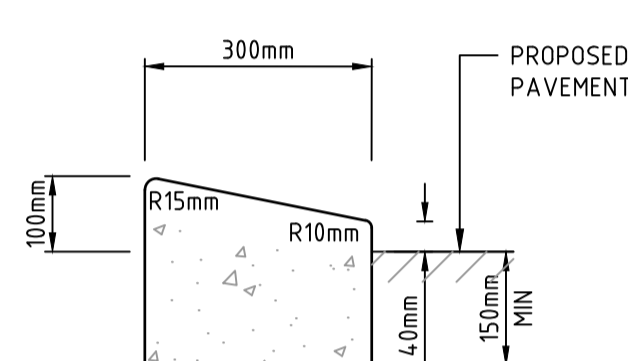
**TYPICAL SECTION
SHARED PATH (RESERVE)**

SCALE 1:10
REFER TO BCC STD DRG S350



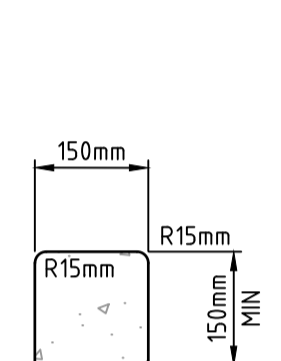
**TYPICAL SECTION
FOOTPATH/SHARED PATH**

SCALE 1:10
REFER TO BCC STD DRG S350



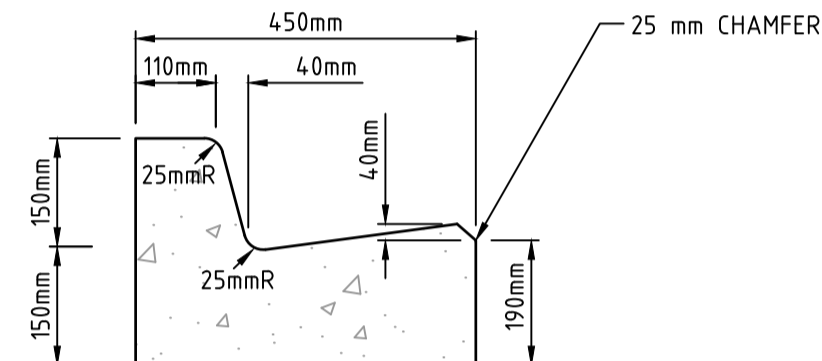
M4 KERB

SCALE 1:10
REFER BCC S300



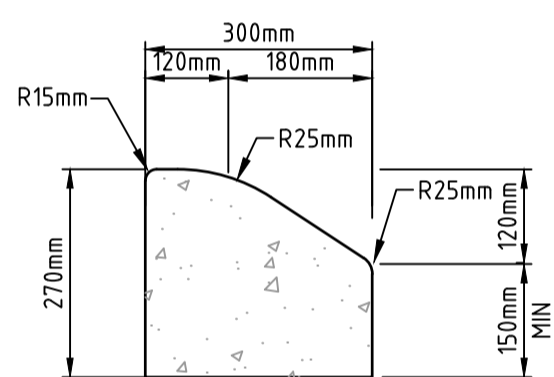
EDGE STRIP

SCALE 1:10
REFER BCC S300



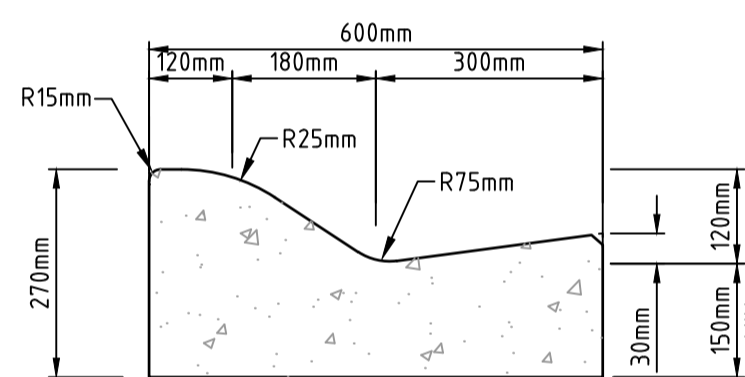
B2 - BARRIER KERB & CHANNEL

SCALE 1:10
REFER BCC S300



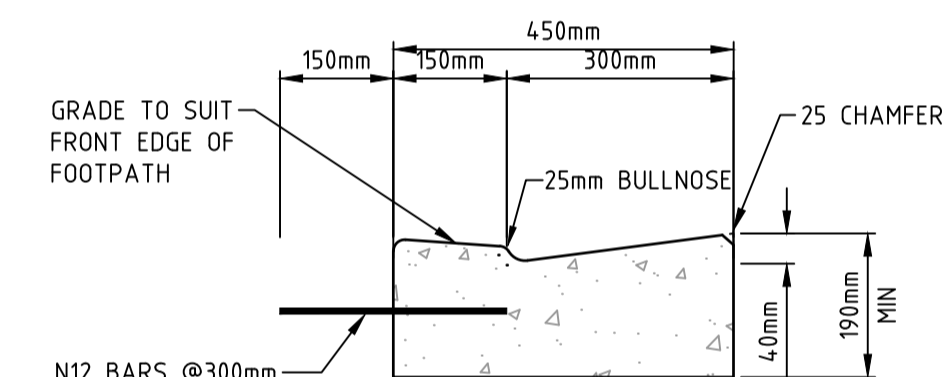
SM1 KERB

SCALE 1:10
REFER BCC S300



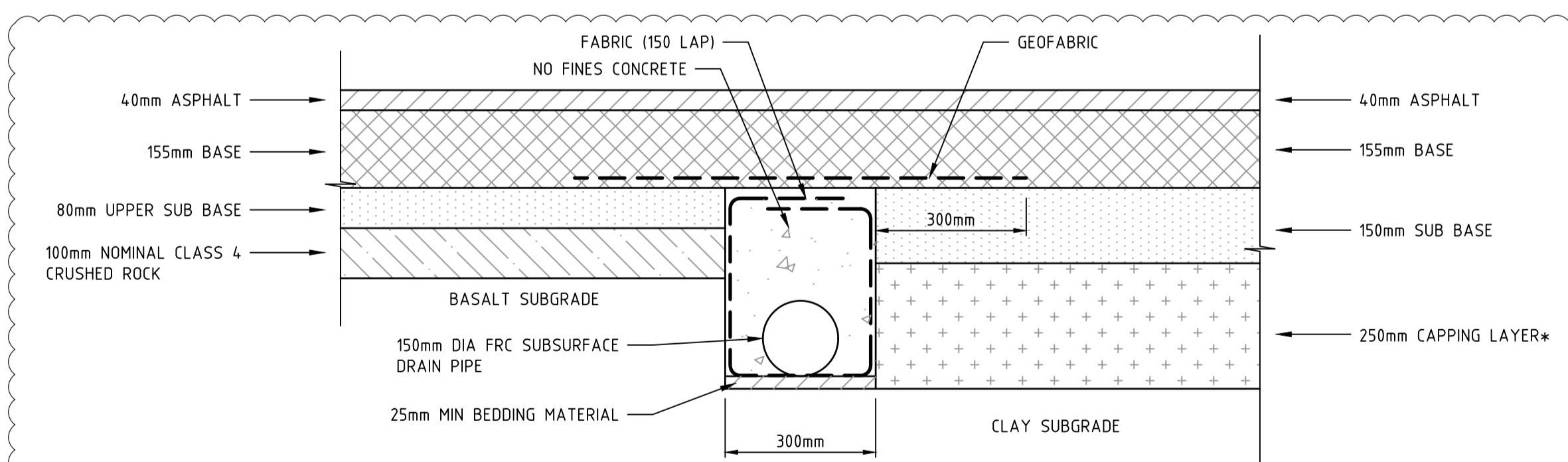
SM2 KERB & CHANNEL

SCALE 1:10
REFER BCC S300



LAYBACK SECTION FOR BARRIER KERB

SCALE 1:10
REFER BCC S310

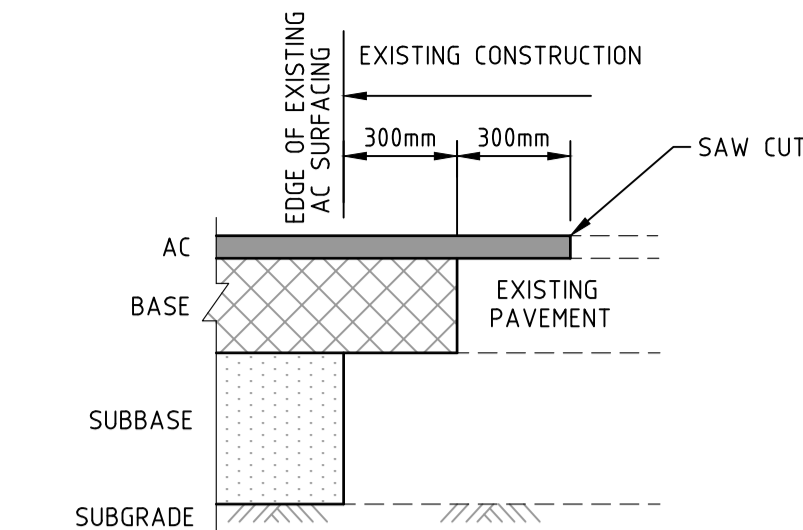


PAVEMENT TRANSITION DETAIL

SCALE 1:10

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

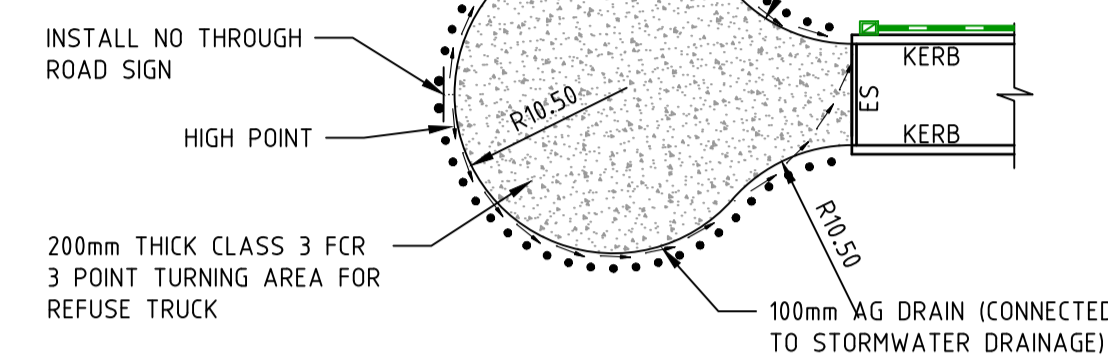
NOTE:
* AN ADDITIONAL 350mm THICK TYPE 2 FILL WILL BE REQUIRED IF FORMATION INTERCEPTS FILL



JOINING TO EXISTING PAVEMENT

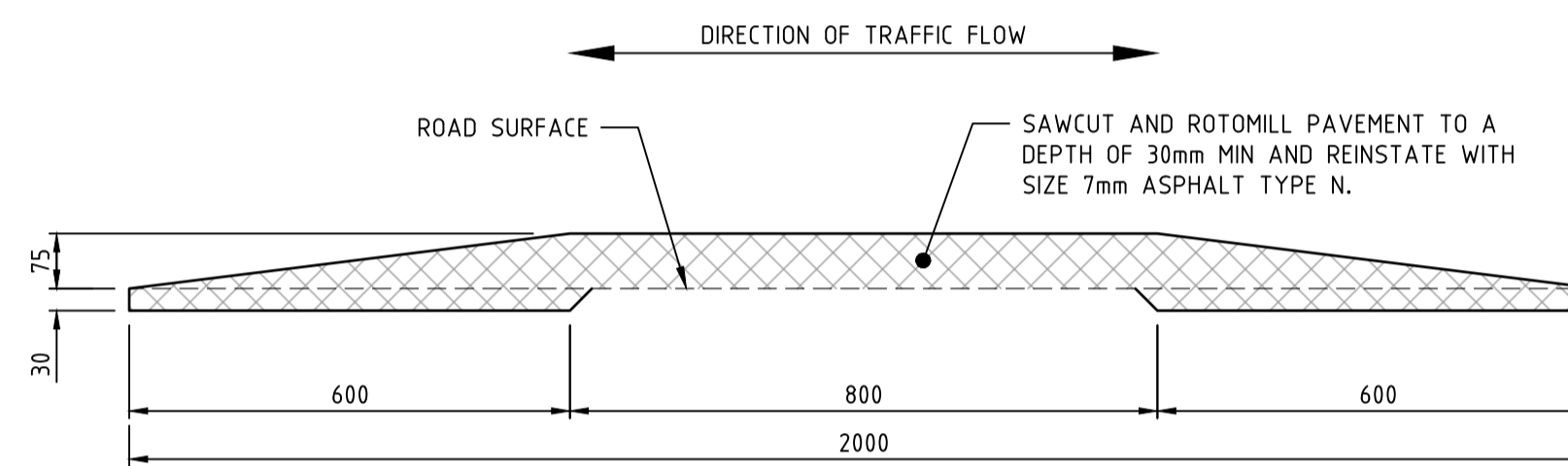
N.T.S.

PROVIDE 200mm TREATED PINE POSTS AS PER BCC STD DRG S516 AT 1500 MAX SPACINGS. POST TO BE 1.5m LONG AND SET IN 600x450 FOOTING AND BACKFILLED WITH CEMENT STABILISED SOIL.



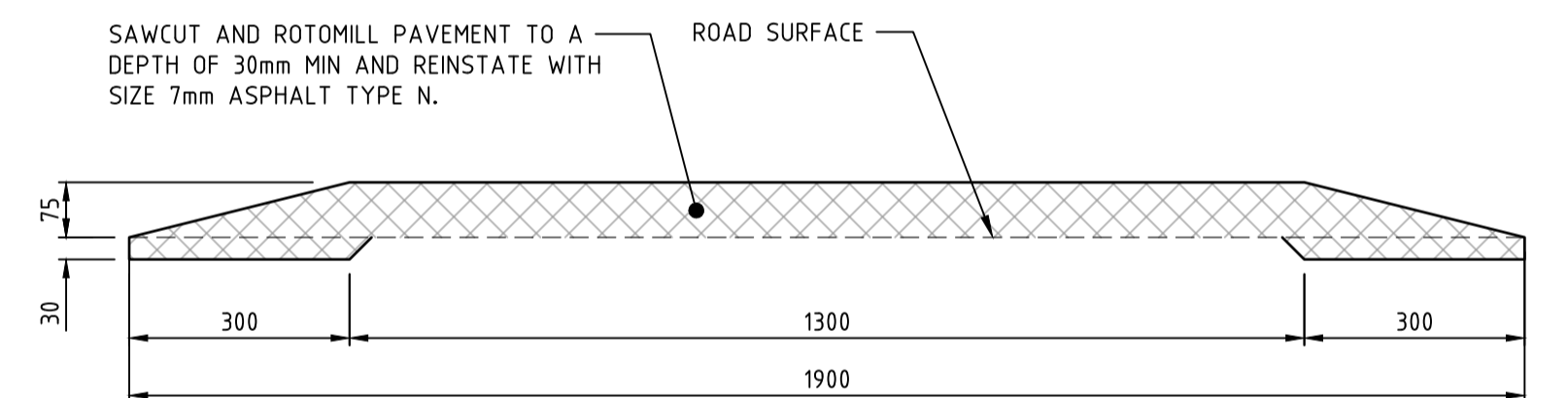
TEMPORARY END ROAD DETAIL

SCALE 1:500



TYPICAL ASPHALT SPEED CUSHION DETAIL B-B

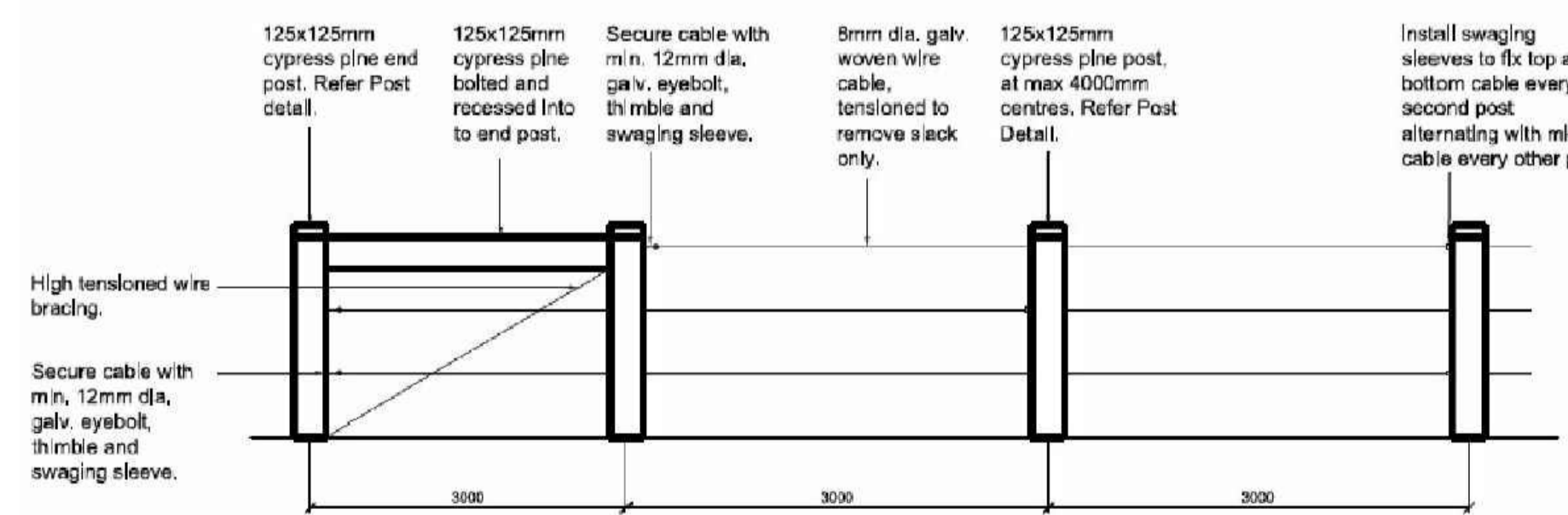
SCALE 1:10



TYPICAL ASPHALT SPEED CUSHION DETAIL A-A

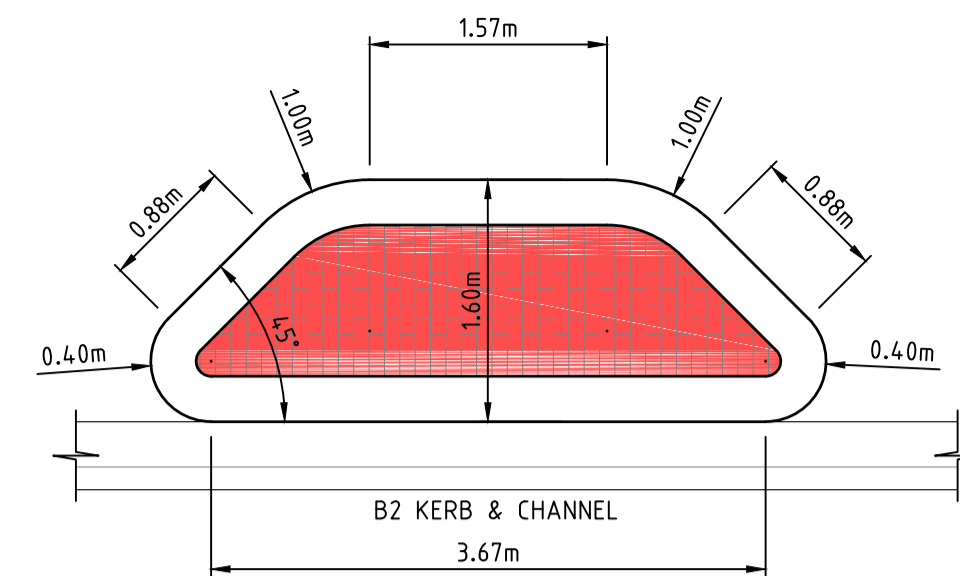
SCALE 1:10

NOTE:
COLOURED ASPHALT IS TO BE RED WITH 1% RED IRON OXIDE WITH RED GRAVEL MIX. RED GRAVEL MIX MAY BE OBTAINED FROM ASPHALT TECH PH 9303-7833



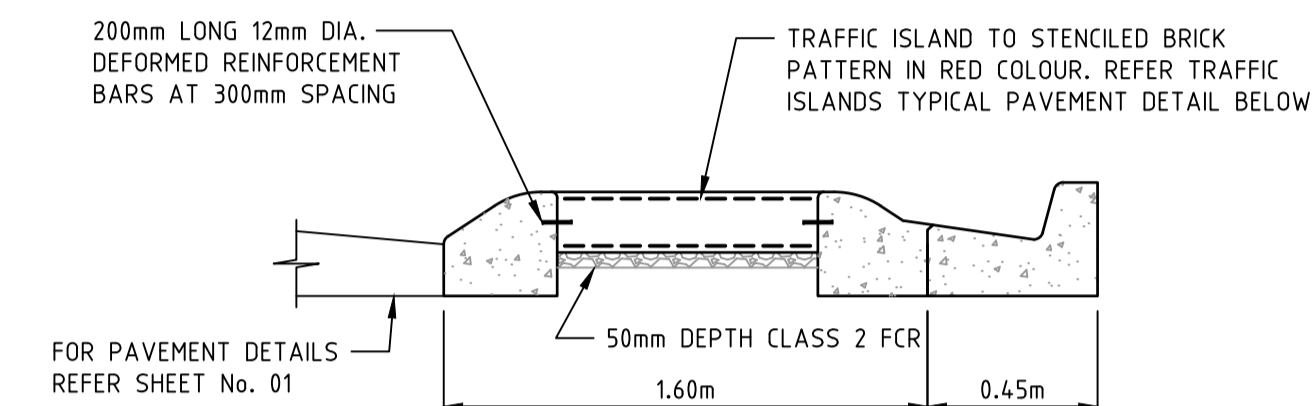
TIMBER POST AND WIRE FENCE DETAIL

N.T.S.



TRAFFIC ISLAND SETOUT

SCALE 1:50



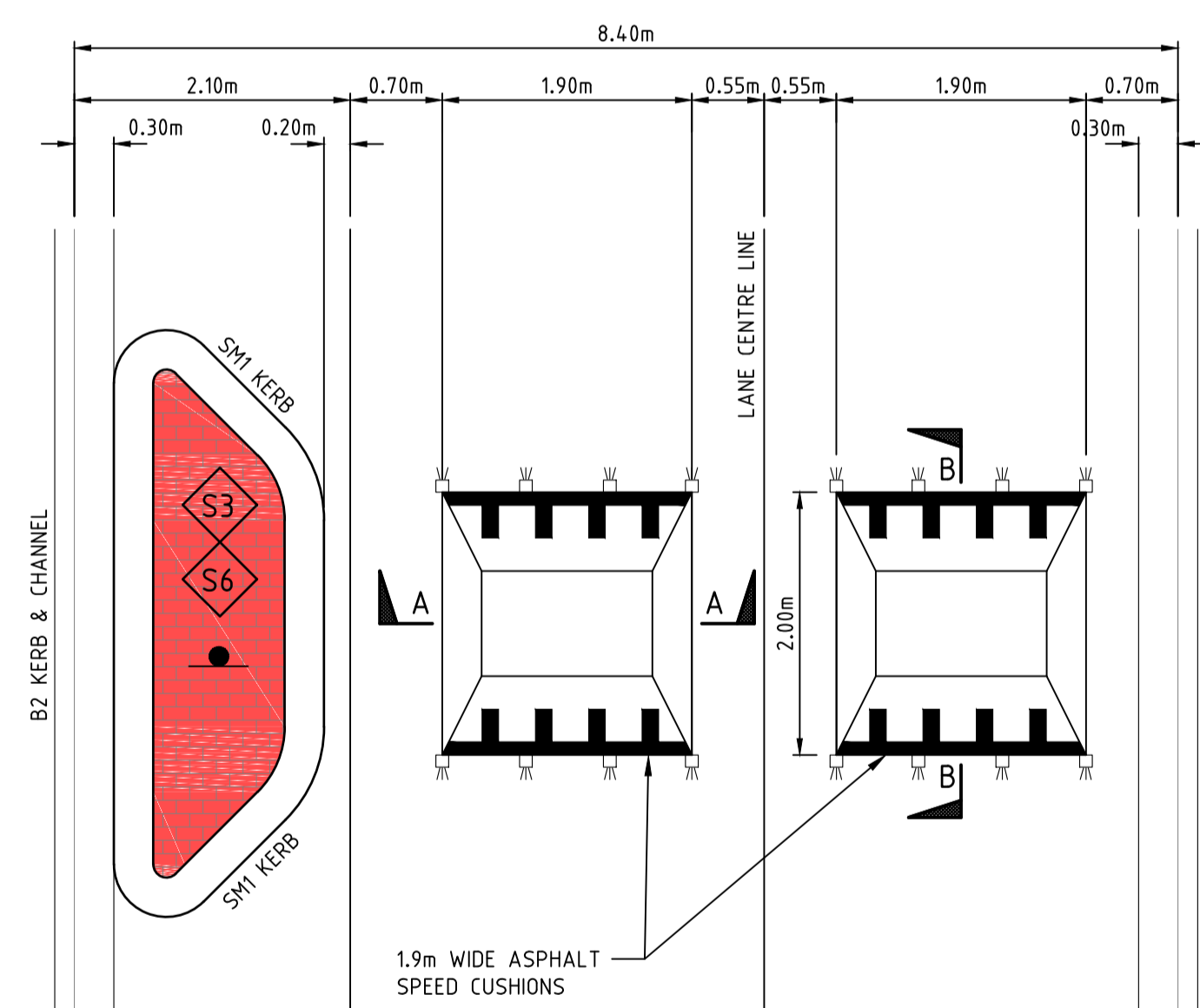
DETAIL 1

SCALE 1:25

200mm THICK CONCRETE, 32MPa
2 LAYERS OF SL82 (TOP & BOTTOM)
ON 100mm OF CLASS 2 FCR.
BURNT ORANGE FAUX BRICK STENCIL
FINISH DOWELLED TO M4 KERBS WITH
450mm LONG N BARS @ 300 CTS.

TRAFFIC ISLANDS TYPICAL PAVEMENT

N.T.S.



2 SPEED CUSHION (ASPHALT) RIVERVALLEY BOULEVARD

SCALE 1:50

NOTE:
SIGN 'S3' REFERS TO A W5-10A (CLASS 1) SIGN WITH A SUPPLEMENTARY W8-2A 20 Km/h (CLASS 1). SIGN 'S6' REFERS TO A D4-1-2A UNI-DIRECTIONAL HAZARD MARKER SIGN. REFER TO SHEETS 13-14 FOR SIGNAGE AND LINEMARKING PLANS

NO	AMENDMENTS	DATE	APPD.
3	GEOFABRIC LAYER ADDED TO PAVEMENT TRANSITION DETAIL	07/06/18	TL
2	PAVEMENT TRANSITION DETAIL AMENDED	04/06/18	TL
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS Date 23/06/17 AN 2591001 Designed J.BURNS Date 23/06/17 AN 1631471 Verified T.THAVENDRAN Date 05/07/17 AN 943782 Audited R.MASON Date 29/01/18 AN 705138 Approved T.LIAKOPOULOS Date 01/02/18 AN 888267

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RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
TYPICAL DETAILS



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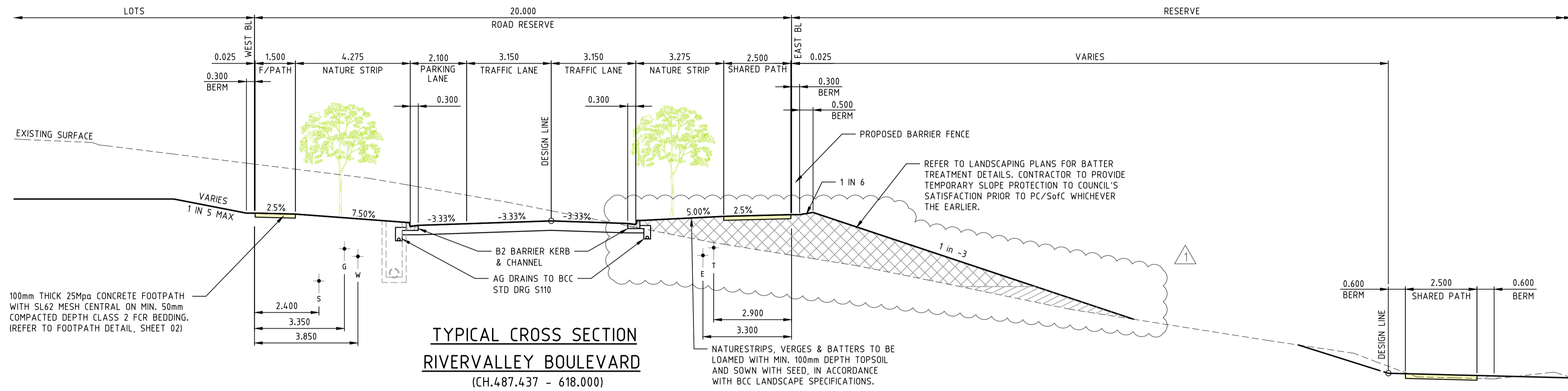
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Levels: AHD
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Drawing No. 12196TD02 Rev 3
Sheet No. 02 CONSTRUCTION

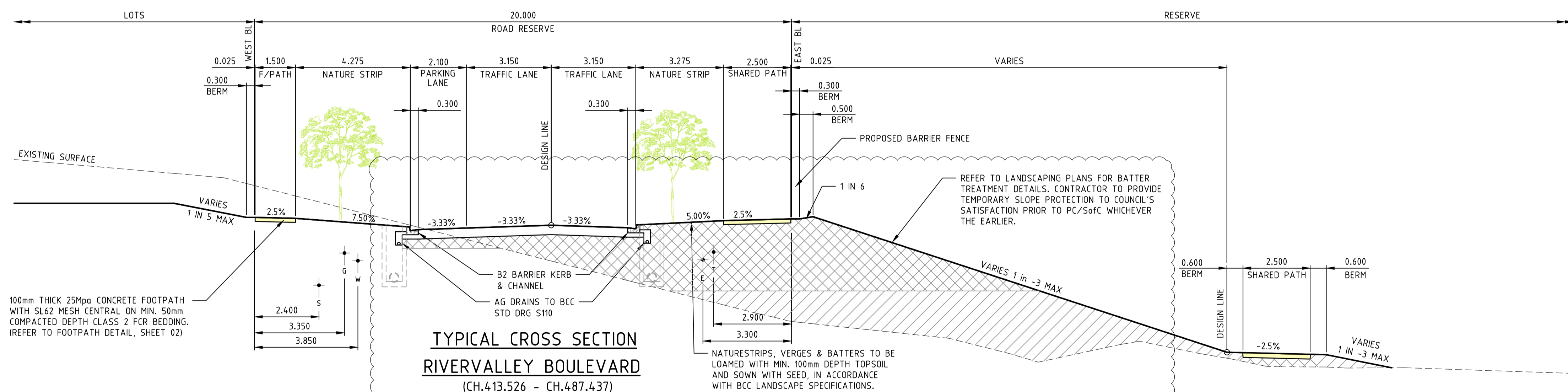
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Scale @ A1/A3 1:100/200



**TYPICAL CROSS SECTION
RIVERVALLEY BOULEVARD
(CH.487.437 - 618.000)**



**TYPICAL CROSS SECTION
RIVERVALLEY BOULEVARD
(CH.413.526 - CH.487.437)**

TEMPORARY EROSION CONTROL:
TEMPORARY SLOPE PROTECTION ON SLOPES OF PRIVATE PROPERTIES AND RESERVE AREA TO BE PROVIDED TO COUNCIL'S SATISFACTION PRIOR TO PC/SofC WHICHEVER THE EARLIER.

BENCHING FOR EACH LAYER OF FILL INTO EXISTING SLOPE IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY TONKIN AND TAYLOR (REF4694.000.R2.vA) DATED: AUGUST 2015

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631547
Verified T.THAVENDRAN
Date 05/07/17
AN 943763
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% 500 UNDER LEVEL 1

TABLE OF SERVICES LOCATIONS

STREET NAME	WATER	GAS	NBN	ELEC.	BOK	SEWER
RIVERVALLEY BOULEVARD	3.850 W	3.350 W	2.900 E	3.300 E	5.650	2.400 W
PERENNIAL DRIVE	2.850 E	2.400 E	1.800 E	3.000 W	4.200 W	2.200 W
MINERAL TERRACE	3.650 S	3.150 S	2.800 N	3.200 N	4.800	2.300 S

RIVER VALLEY

Coords: MGA
Levels: AHD

Hor 1:100 0m 1m 2m 4m 6m

Scale @ A1/A3 1:100/200

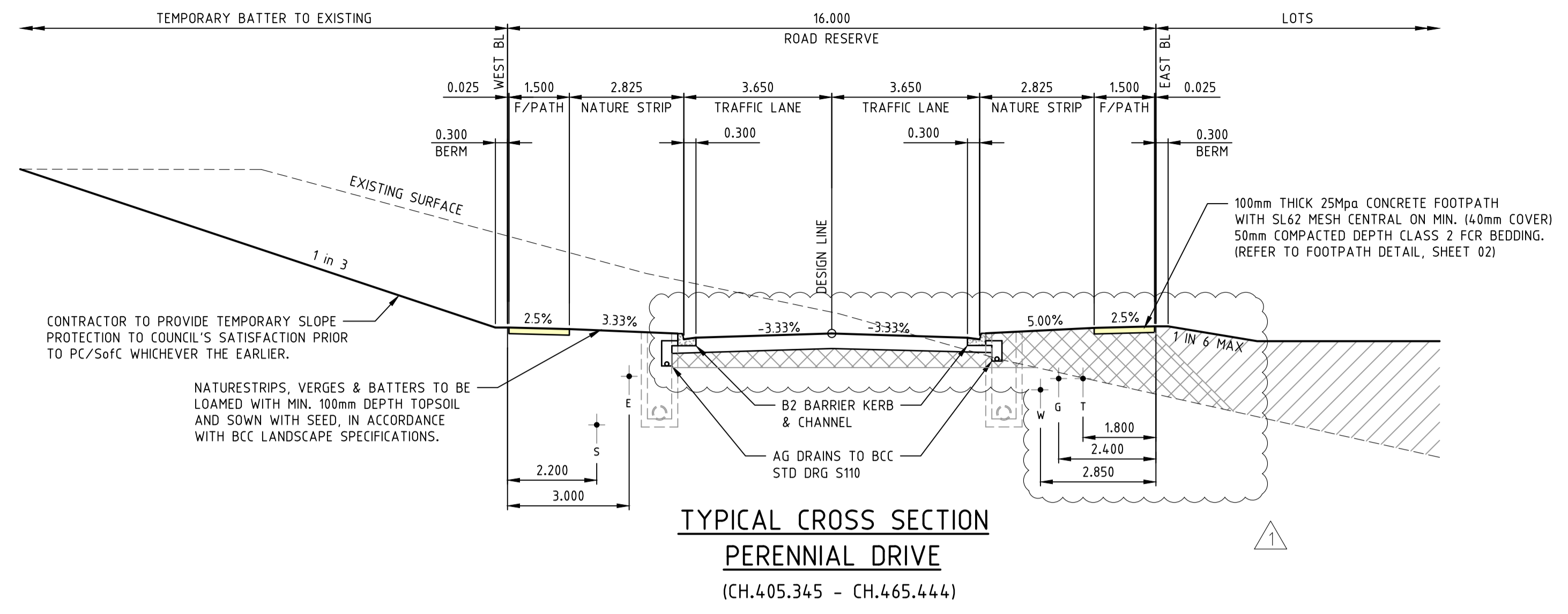
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
TYPICAL SECTIONS
SHEET 01 OF 02
Drawing No. 12196TD03 Rev 1
Sheet No. 03 CONSTRUCTION

DALTON CONSULTING ENGINEERS

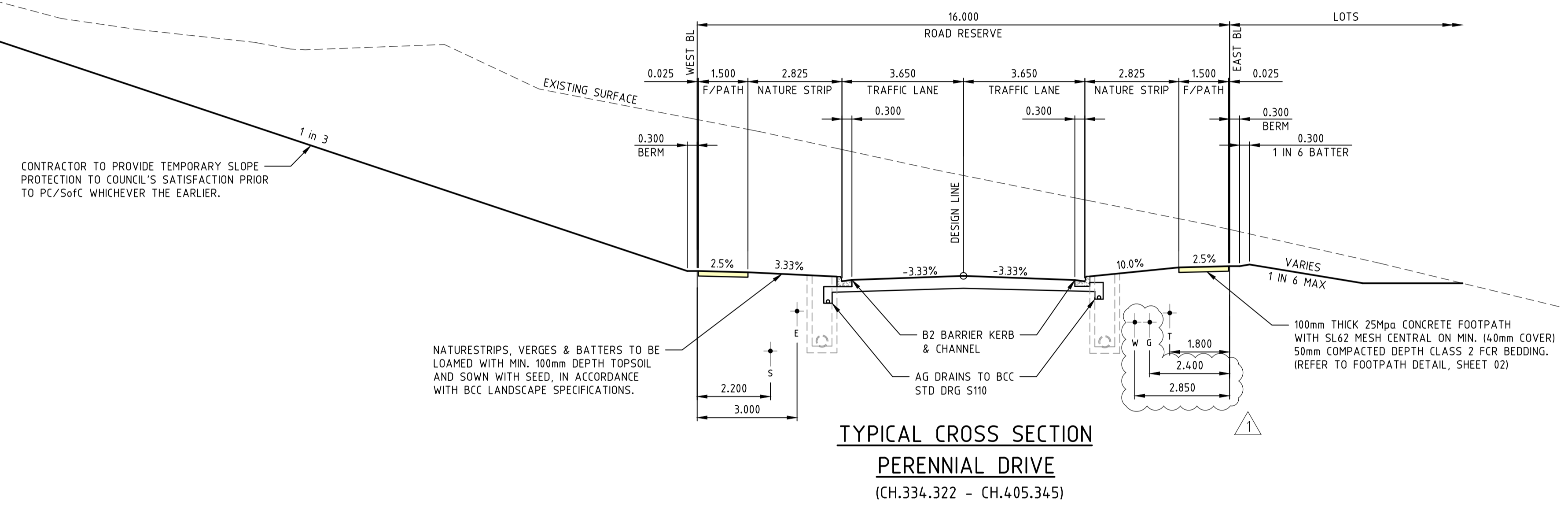
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VICTORIA T 61 3 9813 7400 W dceng.com.au
QUEENSLAND T 61 7 3374 9000 E info@dceng.com.au

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 Date/Time: Thu Jun 07, 2018 10:08am --jacob.burns--

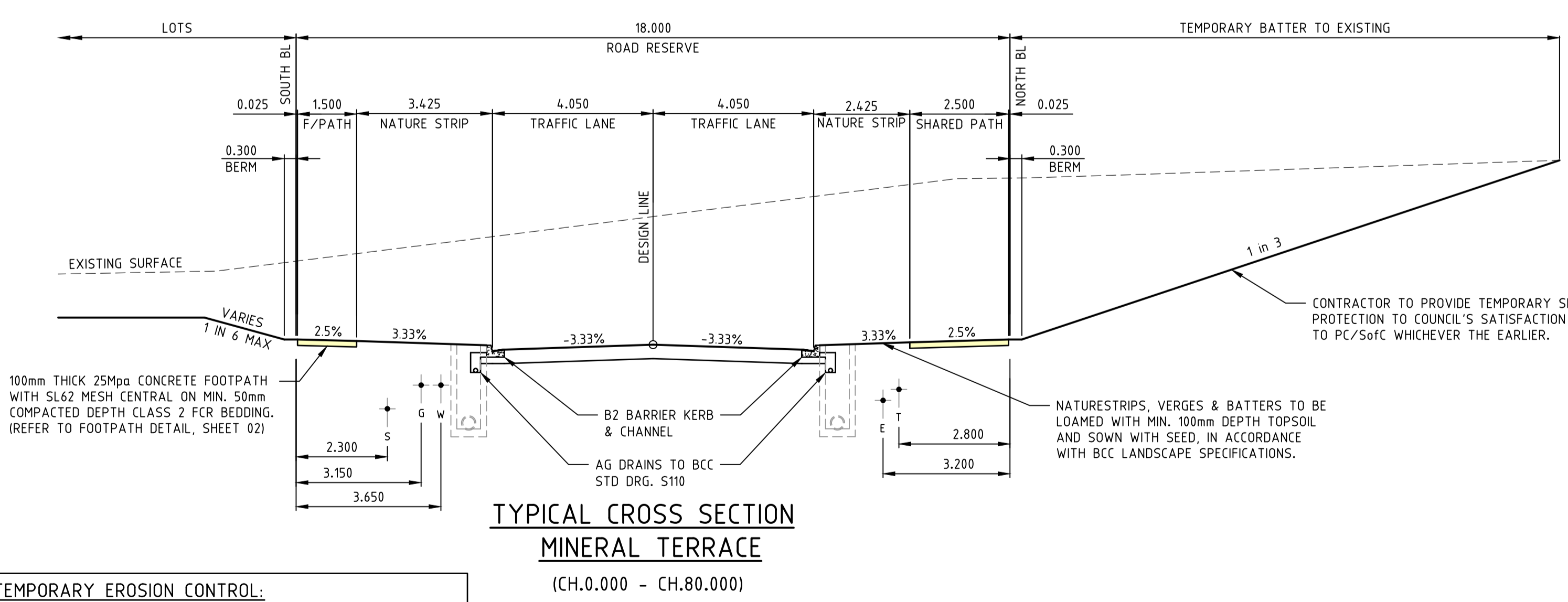
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



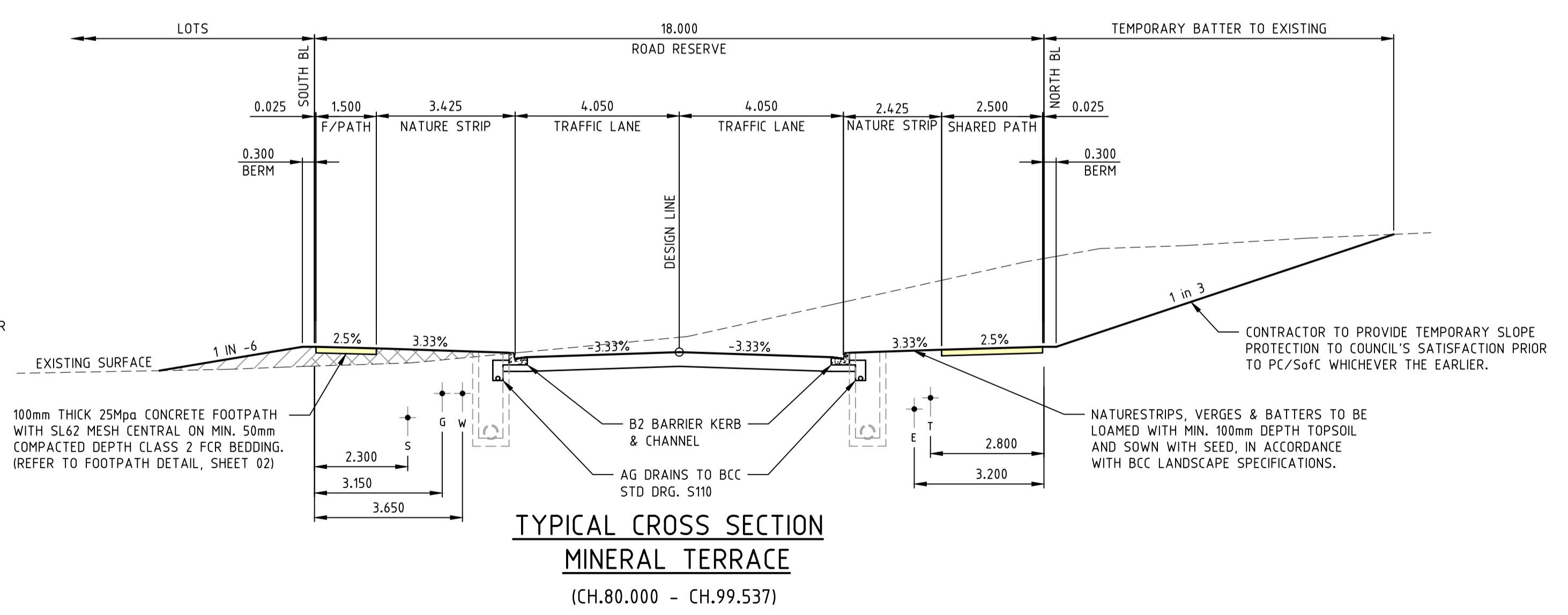
**TYPICAL CROSS SECTION
PERENNIAL DRIVE**
(CH.405.345 - CH.465.444)



**TYPICAL CROSS SECTION
PERENNIAL DRIVE**
(CH.334.322 - CH.405.345)



**TYPICAL CROSS SECTION
MINERAL TERRACE**
(CH.0.000 - CH.80.000)



**TYPICAL CROSS SECTION
MINERAL TERRACE**
(CH.80.000 - CH.99.537)

TEMPORARY EROSION CONTROL:
TEMPORARY SLOPE PROTECTION ON SLOPES OF PRIVATE PROPERTIES AND RESERVE AREA TO BE PROVIDED TO COUNCIL'S SATISFACTION PRIOR TO PC/SoFC WHICHEVER THE EARLIER.

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631548
Verified T.THAVENDRAN
Date 05/07/17
AN 943784
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

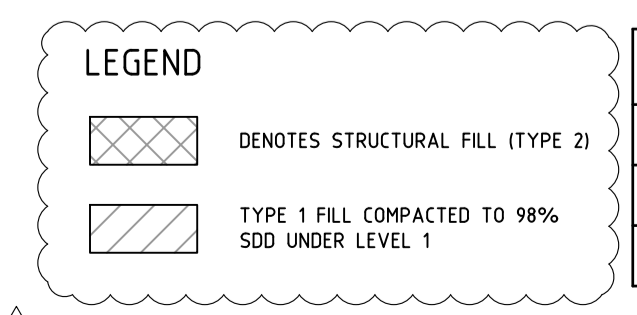


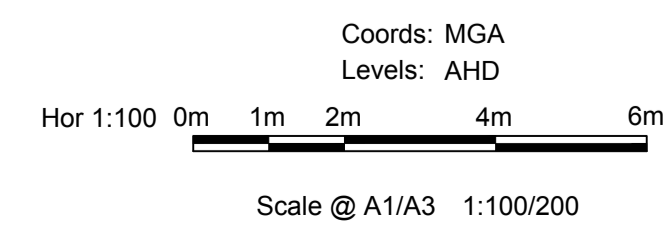
TABLE OF SERVICES LOCATIONS						
STREET NAME	WATER	GAS	NBN	ELEC.	BOK	SEWER
RIVERVALLEY BOULEVARD	3.850 W	3.350 W	2.900 E	3.300 E	5.650	2.400 W
PERENNIAL DRIVE	2.850 E	2.400 E	1.800 E	3.000 W	4.200 W	2.200 W
MINERAL TERRACE	3.650 S	3.150 S	2.800 N	3.200 N	4.800	2.300 S

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

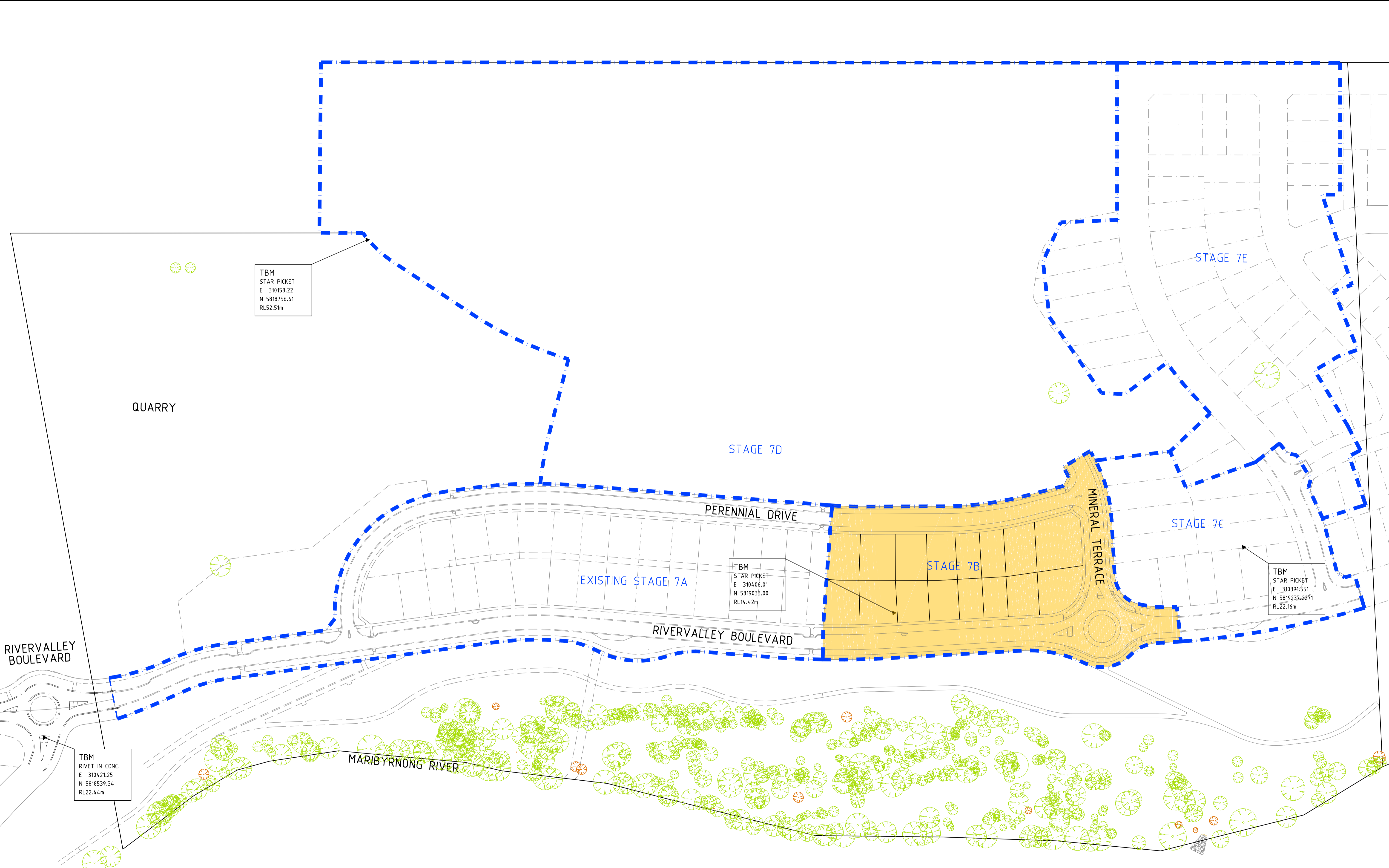


ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
TYPICAL SECTIONS
SHEET 02 OF 02
Drawing No. 12196TD04 Rev 1
Sheet No. 04 CONSTRUCTION
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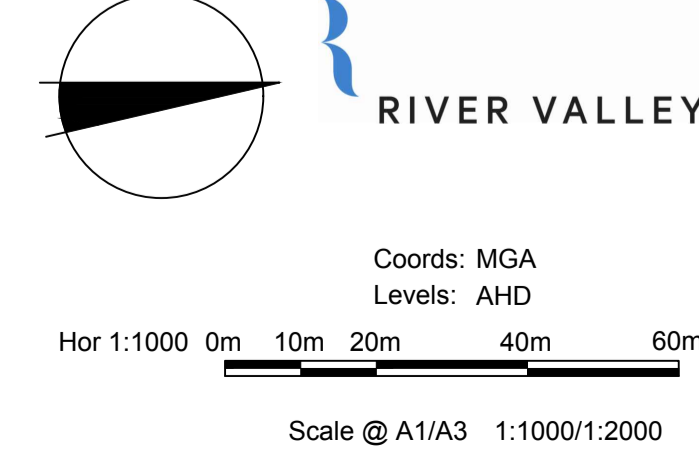
ABN 78 429 221 049
QUEENSLAND
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E info@dceng.com.au
VICTORIA
T 61 3 9813 7400
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Drawing File: C:\Users\jacob.burns\Documents\12196-River Valley - Stage 7B - 11\Mod\10\100000.dwg
 Project Name: RIVER VALLEY ESTATE - STAGE 7B - SUNSHINE NORTH
 Date/Time: Thu Jun 07 2018 10:00:00 AM
 User: jacob.burns



NOT TO BE USED FOR CONSTRUCTION			
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APPD.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631472
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943785
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

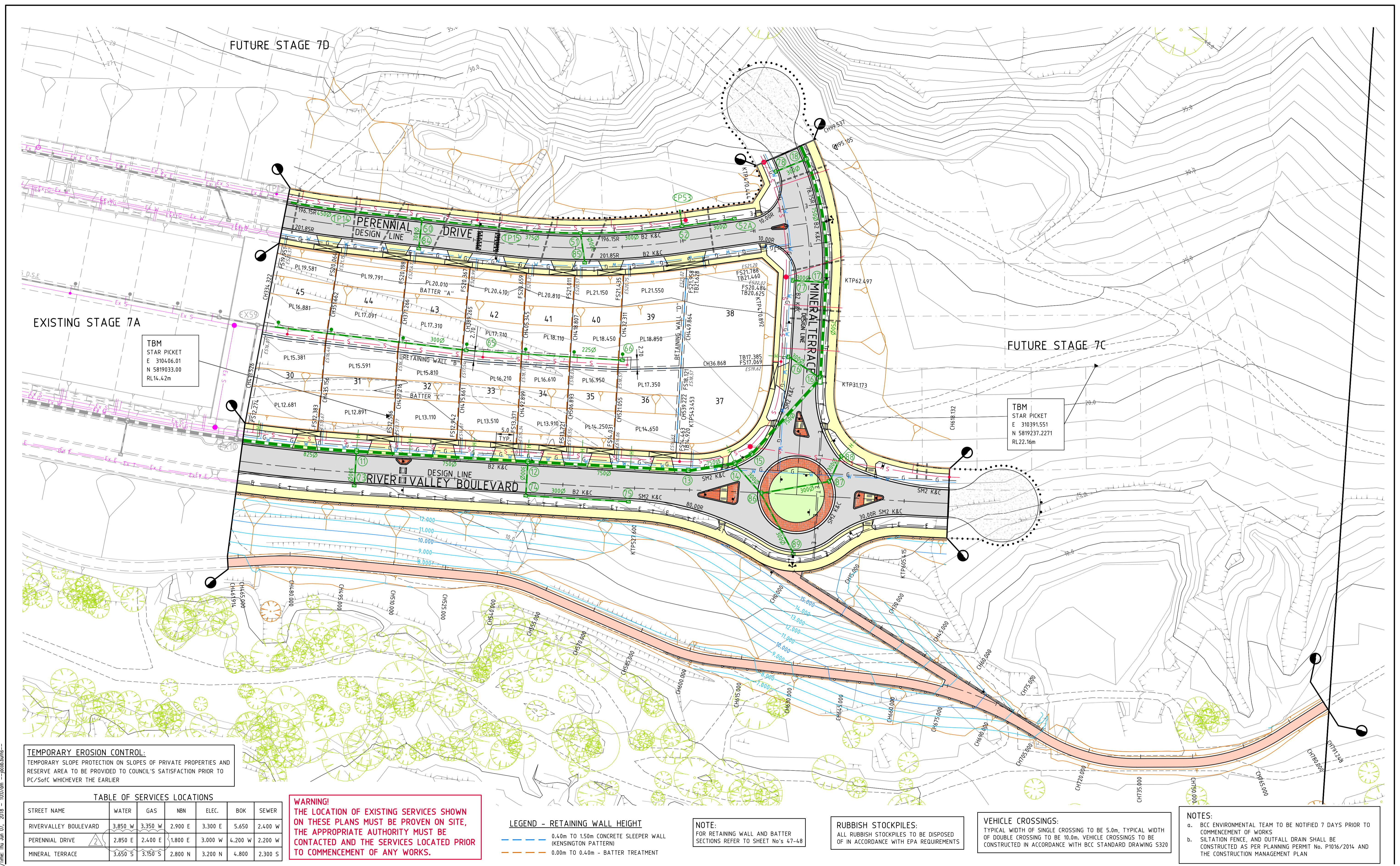


ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
STAGING PLAN

Drawing No. 12196SP01 Rev 0
 Sheet No. 05 **CONSTRUCTION**
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 ABN 78 429 221 049
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 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



TBM
STAR PICKET
E 3104.06.01
N 5819033.00
RL14.42m

TBM
STAR PICKET
E 310391.551
N 5819237.2271
RL22.16m

TEMPORARY EROSION CONTROL:
TEMPORARY SLOPE PROTECTION ON SLOPES OF PRIVATE PROPERTIES AND RESERVE AREA TO BE PROVIDED TO COUNCIL'S SATISFACTION PRIOR TO PC/SOFC WHICHEVER THE EARLIER

STREET NAME	WATER	GAS	NBN	ELEC.	BOX	SEWER
RIVERVALLEY BOULEVARD	3.850 W	3.350 W	2.900 E	3.300 E	5.650	2.400 W
PERENNIAL DRIVE	2.850 E	2.400 E	1.800 E	3.000 W	4.200 W	2.200 W
MINERAL TERRACE	3.650 S	3.150 S	2.800 N	3.200 N	4.800	2.300 S

WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

LEGEND - RETAINING WALL HEIGHT
 - - - 0.40m TO 1.50m CONCRETE SLEEPER WALL (KENSINGTON PATTERN)
 - - - 0.00m TO 0.40m - BATTER TREATMENT

NOTE:
FOR RETAINING WALL AND BATTER SECTIONS REFER TO SHEET No's 47-48

RUBBISH STOCKPILES:
ALL RUBBISH STOCKPILES TO BE DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS

VEHICLE CROSSINGS:
TYPICAL WIDTH OF SINGLE CROSSING TO BE 5.0m, TYPICAL WIDTH OF DOUBLE CROSSING TO BE 10.0m. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH BCC STANDARD DRAWING S320

NOTES:
a. BCC ENVIRONMENTAL TEAM TO BE NOTIFIED 7 DAYS PRIOR TO COMMENCEMENT OF WORKS
b. SILTATION FENCE, AND OUTFALL DRAIN SHALL BE CONSTRUCTED AS PER PLANNING PERMIT No. P1016/2014 AND THE CONSTRUCTION MANAGEMENT PLAN

NO	AMENDMENTS	DATE	APPD.
2	PERENNIAL DRIVE GAS AND WATER AMENDED	15/05/18	TL
1	COUNCIL COMMENTS 23/02/18	05/03/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631473
Verified T.THAVENDRAN
Date 05/07/17
AN 943786
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

EXISTING WATER MAIN
EXISTING GAS MAIN
EXISTING ELECTRICAL CABLE
EXISTING SEWER MAIN & MANHOLE
EXISTING TELECOM. CABLE AND PIT
EXISTING ELEC. POLE & O'HEAD LINES
EXISTING STORMWATER DRAIN & PIT
CONSTRUCTED PRE DEVELOPMENT
EXISTING TREES TO BE REMOVED
PERMANENT SURVEY MARK
TEMPORARY BENCH MARK

SEWER MAIN AND MANHOLE
STORMWATER DRAIN & PIT
PROPERTY INLETS
HOUSE DRAIN
WATER
TELECOMMUNICATIONS
ELECTRICITY
GAS
SERVICE CONDUIT
1.2m HIGH TIMBER POST & WIRE FENCE

ASPHALT PAVEMENT
CONC FPATH / SPATH / DRIVEWAY
CONC SHARED PATH (IN RESERVE)
LANDSCAPING
STAMPED CONCRETE
EXISTING SURFACE LEVEL
FINISHED SURFACE LEVEL
TOP OF BANK LEVEL
PAD LEVEL
TOP OF WALL LEVEL

Coors: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

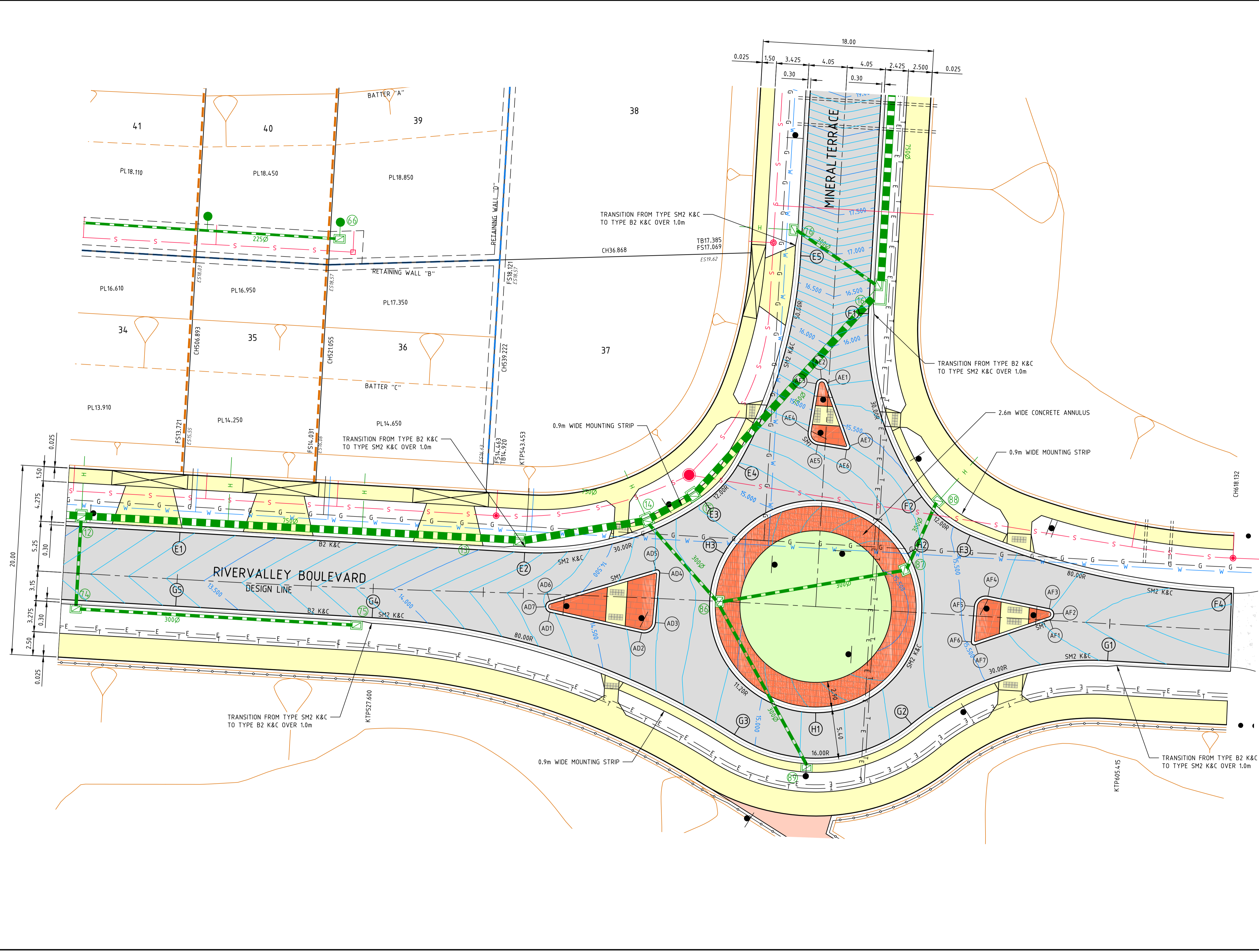
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
DETAIL PLAN

Drawing No. 12196DP01 Rev 2
Sheet No. 06 CONSTRUCTION
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Project: File: C:\12196-River Valley - Stage 7B - 11\Model\DWG
 Project No: 12196-River Valley - Stage 7B - 11\Model\DWG
 Date/Time: Thu Jun 07, 2018 - 10:02am -- jacob.burns

Drawing File: C:\Users\jburns\OneDrive - Atlantic Link Pty Ltd\Documents\12196-River Valley - Stage 7B - 11\Road\10\10100200.dwg
 Date/Time: Thu Jun 07, 2018 - 10:02am --jacob.burns--



REFER TO SHEET No. 15 FOR SIGNAGE AND LINE MARKING PLAN

0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631474
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943787
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

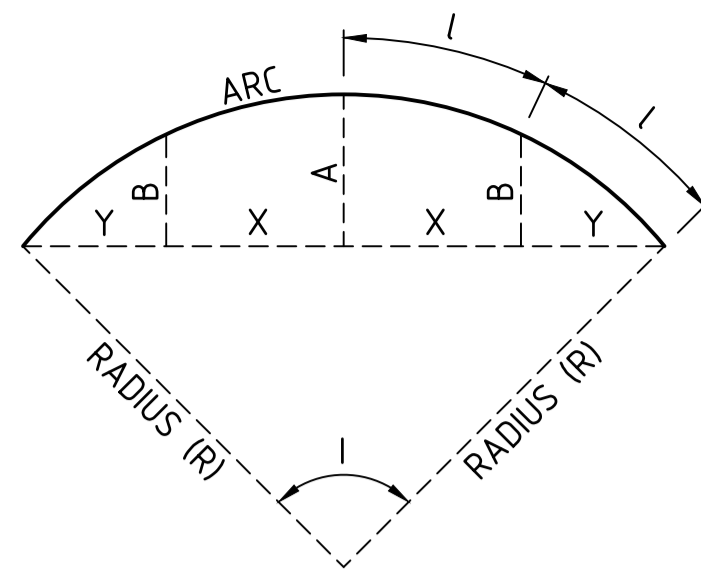
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- EX G EXISTING GAS MAIN
- EX E EXISTING ELECTRICAL CABLE
- EX S EXISTING SEWER MAIN & MANHOLE
- EX T EXISTING TELECOMM. CABLE AND PIT
- EX V EXISTING ELEC. POLE & O'HEAD LINES
- EX P EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- X EXISTING TREES TO BE REMOVED
- S SEWER MAIN AND MANHOLE
- SD STORMWATER DRAIN & PIT
- SW SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PI PROPERTY INLETS
- H HOUSE DRAIN
- W WATER
- T TELECOMMUNICATIONS
- E ELECTRICITY
- G GAS
- SERVICE CONDUIT
- ▲ PERMANENT SURVEY MARK
- ▲ TEMPORARY BENCH MARK

- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LANDSCAPING
- STAMPED CONCRETE
- ES20.06 EXISTING SURFACE LEVEL
- FS21.650 FINISHED SURFACE LEVEL
- PL21.650 PAD LEVEL
- TW21.650 TOP OF WALL LEVEL
- 15.000 FINISHED SURFACE CONTOUR
- DENOTES TACTILE GROUND INDICATORS IN ACCORDANCE WITH AS. 1428

RIVER VALLEY
 Coords: MGA
 Levels: AHD
 Hor 1:200 0m 2m 4m 8m 12m
 Scale @ A1/A3 1:200/1:400

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
INTERSECTION DETAILS
SHEET 01 OF 06
Drawing No. 12196ID01 Rev 0
 Sheet No. 07 CONSTRUCTION
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 ABN 78 429 221 049

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 T 61 3 9813 7400
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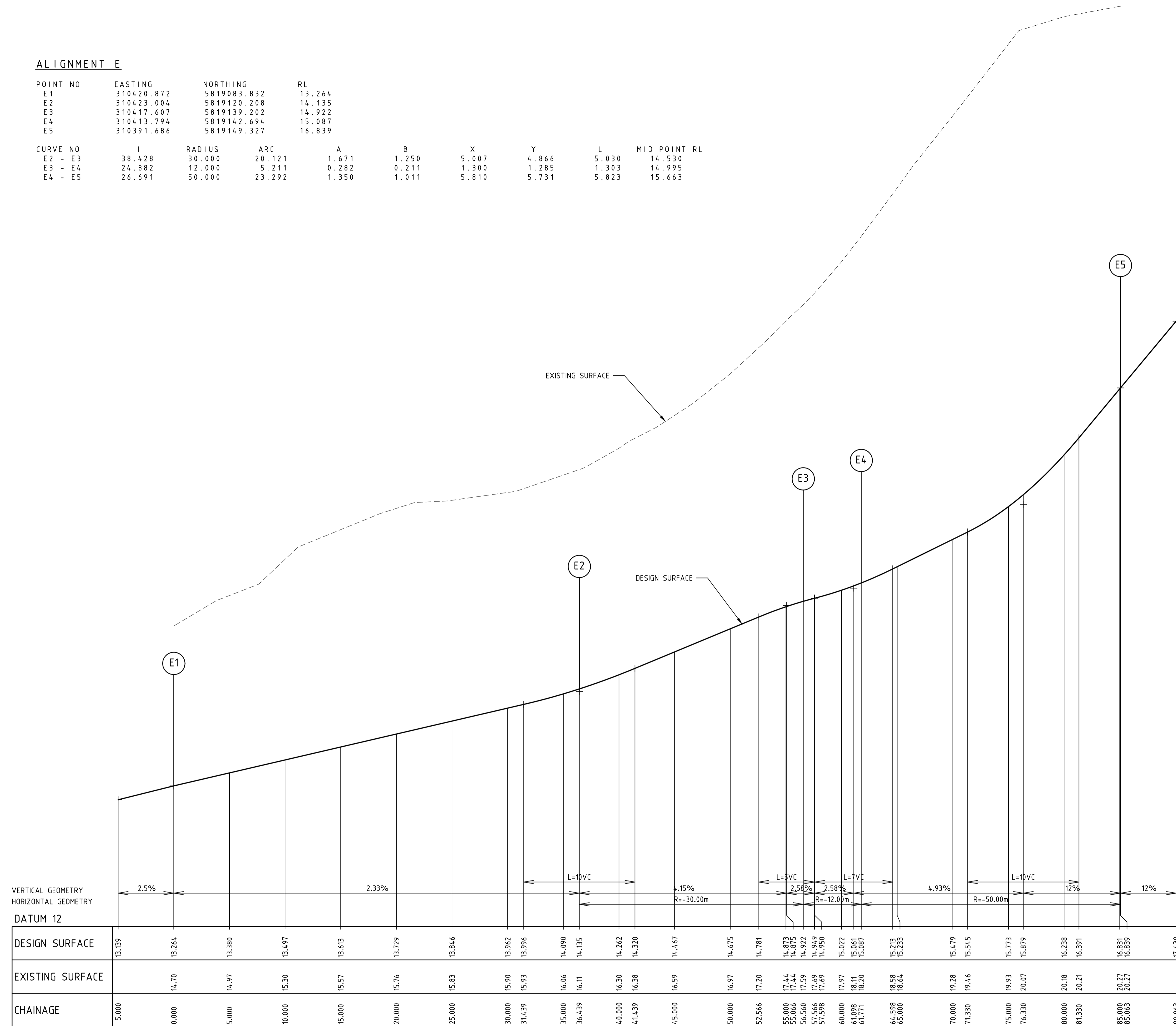


LIP SETOUT DETAIL
N.T.S

ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	310420.872	5819083.832	13.264
E2	310423.004	5819120.208	14.135
E3	310417.607	5819139.202	14.922
E4	310413.794	5819142.694	15.087
E5	310391.686	5819149.327	16.839

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
E2 - E3	38.428	30.000	20.121	1.671	1.250	5.007	4.866	5.030	14.530
E3 - E4	24.882	12.000	5.211	0.282	0.211	1.300	1.285	1.303	14.995
E4 - E5	26.691	50.000	23.292	1.350	1.011	5.810	5.731	5.823	15.663



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM 12

DESIGN SURFACE	13.139	13.264	13.380	13.497	13.613	13.729	13.846	13.962	13.996	14.090	14.135	14.262	14.320	14.467	14.675	14.781	14.873	14.875	14.922	14.949	14.950	15.022	15.061	15.087	15.213	15.235	15.479	15.545	15.773	15.879	16.238	16.391	16.831	16.839	17.439
EXISTING SURFACE		14.70	14.97	15.30	15.57	15.76	15.83	15.90	15.93	16.06	16.11	16.30	16.38	16.59	16.97	17.20	17.44	17.44	17.59	17.69	17.69	17.97	18.11	18.20	18.59	18.64	19.28	19.46	19.93	20.07	20.18	20.21	20.27	20.27	
CHAINAGE	-5.000	0.000	5.000	10.000	15.000	20.000	25.000	30.000	31.439	35.000	36.439	40.000	41.439	45.000	50.000	52.566	55.000	55.066	56.560	57.596	57.596	60.000	61.098	61.771	64.598	65.000	70.000	71.330	75.000	76.330	80.000	81.330	85.000	85.063	90.063

LIP PROFILE 'E'

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631475
Verified T.THAVENDRAN
Date 05/07/17
AN 943788
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

REV	AMENDMENTS	DATE	APPD.
0	CONSTRUCTION ISSUE	01/02/18	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



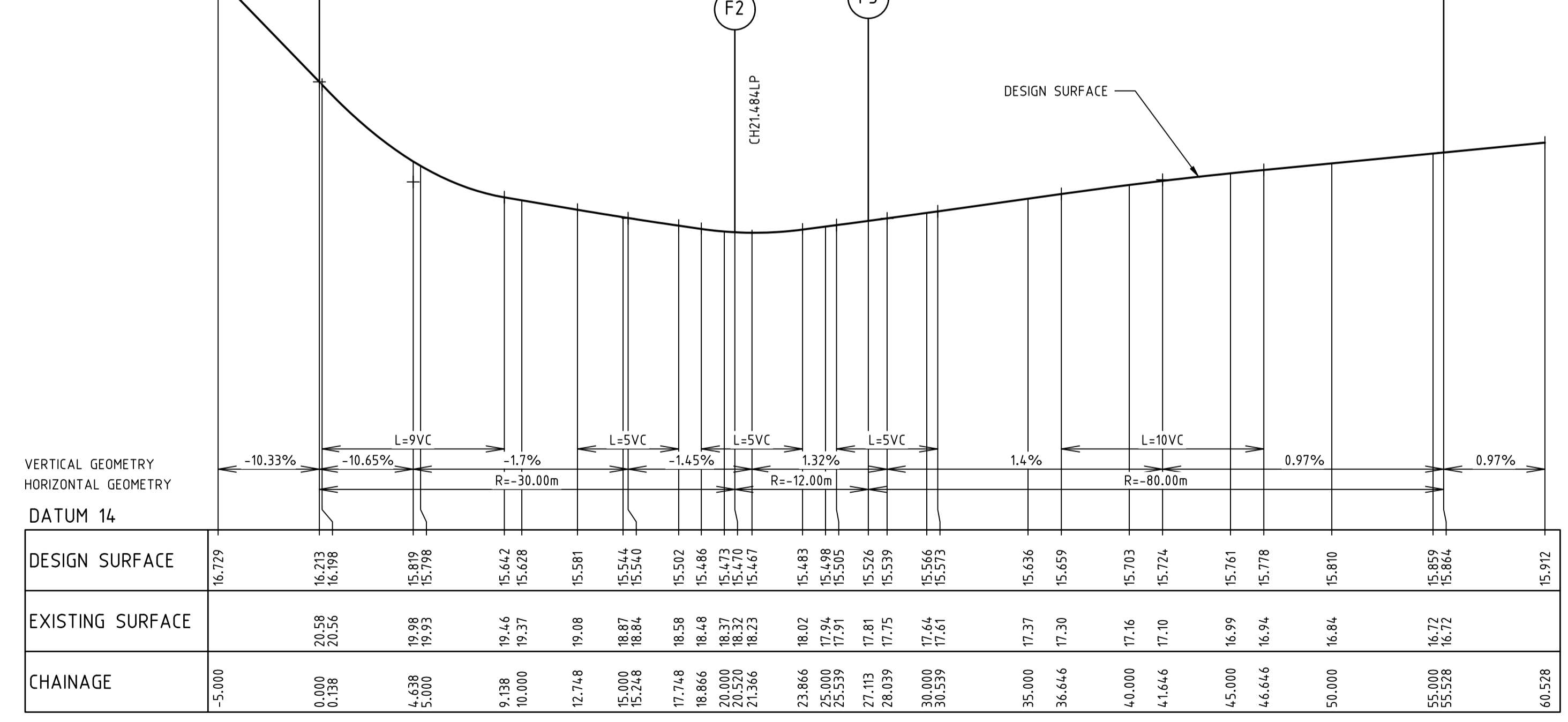
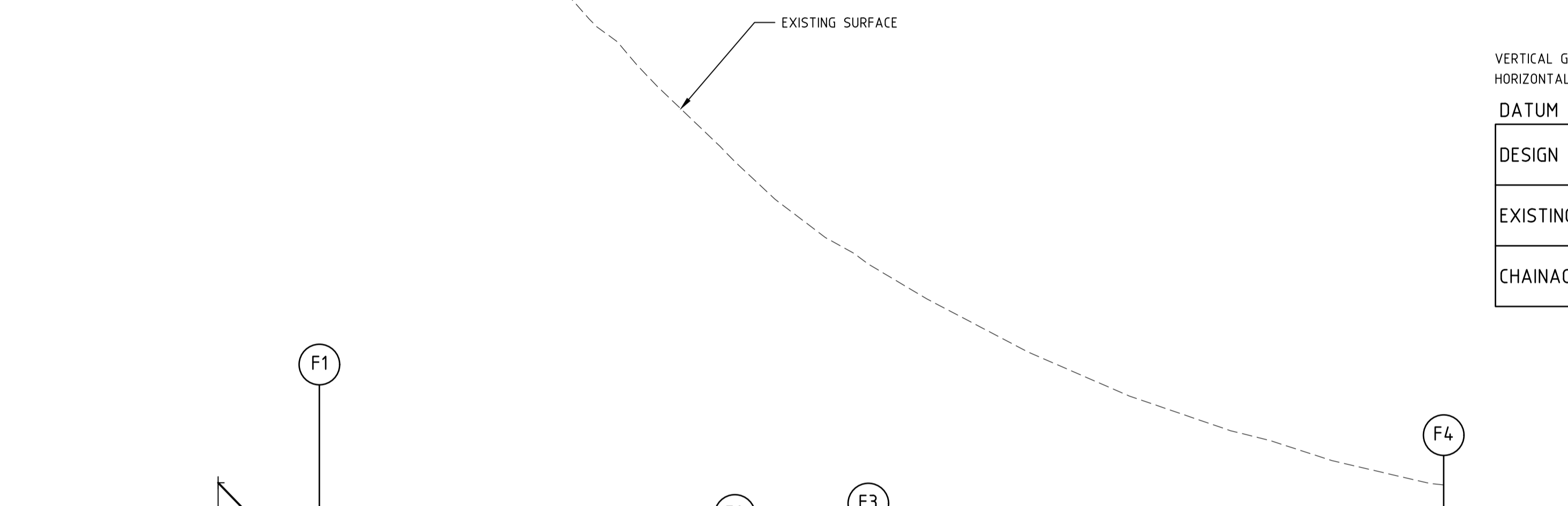
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
INTERSECTION DETAILS
SHEET 02 OF 06
Drawing No. 12196ID02 Rev 0

Coords: MGA
Levels: AHD
Hor 1:200 0m 2m 4m 8m 12m
Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
Scale @ A1/A3 1:200/1:400
Sheet No. 08 CONSTRUCTION
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ABN 78 429 221 049



ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
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W dceng.com.au

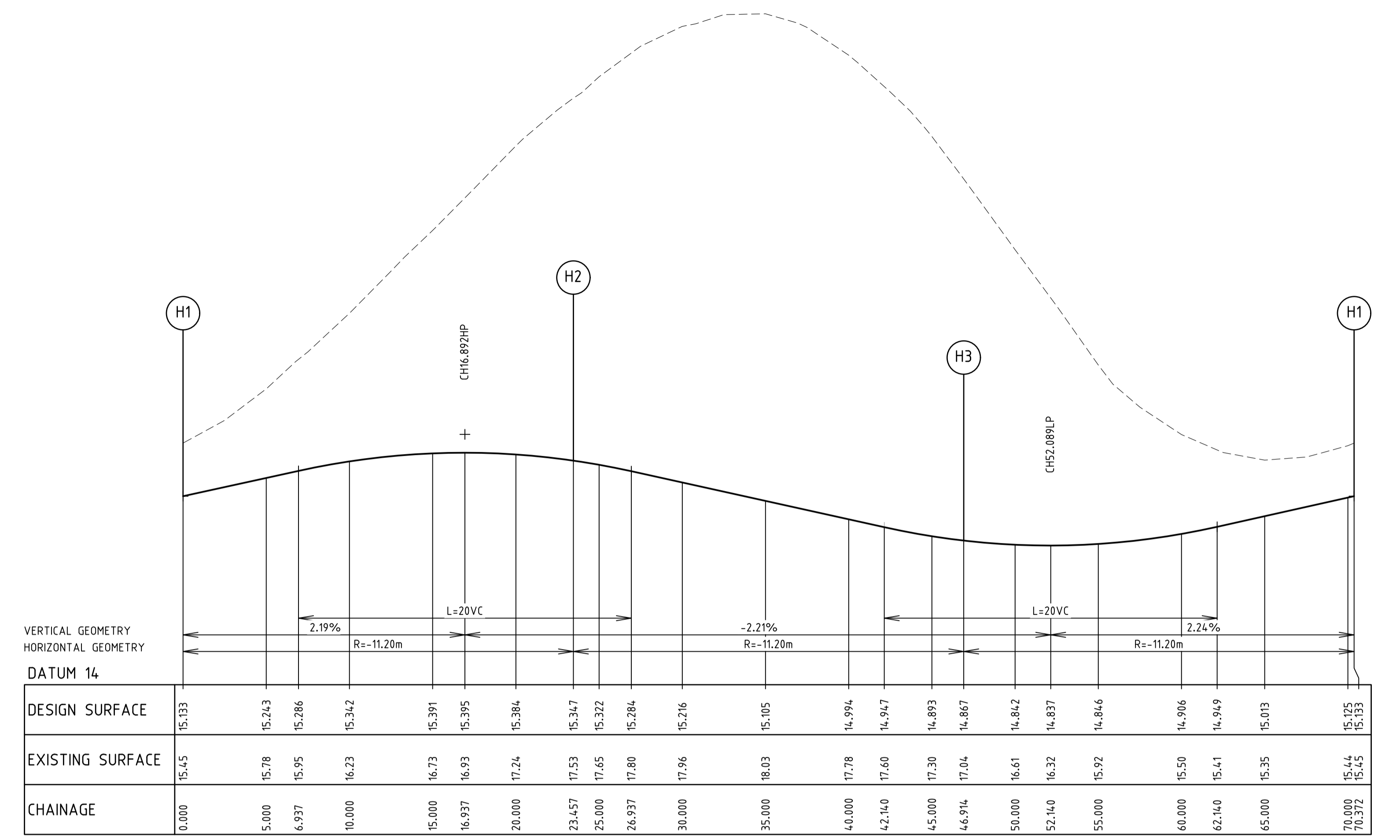
Drawing File: C:\Users\112196-river valley - Stage 7B_11\Modell\DWG\12196-01-01-01-01.dwg
 Date/Time: Thu Jun 07, 2018 - 10:00am -- jacob.burns



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM 14

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
16.729		-5.000
16.213	20.58	0.000
16.198	20.56	0.138
15.819	19.98	4.638
15.798	19.93	5.000
15.442	19.46	9.138
15.428	19.37	10.000
15.381	19.08	12.718
15.544	18.87	15.000
15.540	18.84	15.248
15.502	18.58	17.748
15.486	18.48	18.866
15.473	18.37	20.000
15.470	18.32	20.520
15.467	18.23	21.366
15.483	18.02	23.866
15.498	17.94	25.000
15.505	17.91	25.539
15.526	17.81	27.113
15.539	17.75	28.039
15.564	17.64	30.000
15.573	17.61	30.539
15.636	17.37	35.000
15.659	17.30	36.646
15.703	17.16	40.000
15.724	17.10	41.666
15.761	16.99	45.000
15.778	16.94	46.646
15.810	16.84	50.000
15.859	16.72	55.000
15.864	16.72	55.528
15.912		60.528

LIP PROFILE 'F'



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM 14

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
15.133	15.45	0.000
15.243	15.78	5.000
15.286	15.95	6.937
15.342	16.23	10.000
15.391	16.73	15.000
15.395	16.93	16.937
15.384	17.24	20.000
15.347	17.53	23.457
15.322	17.65	25.000
15.284	17.80	26.937
15.216	17.96	30.000
15.105	18.03	35.000
14.994	17.78	40.000
14.947	17.60	42.140
14.893	17.30	45.000
14.867	17.04	46.914
14.842	16.61	50.000
14.837	16.32	52.140
14.846	15.92	55.000
14.906	15.50	60.000
14.949	15.41	62.140
15.013	15.35	65.000
15.133	15.45	70.000
15.133	15.45	70.372

LIP PROFILE 'H'

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	310397.809	5819156.481	16.213
F2	310417.128	5819162.108	15.470
F3	310421.175	5819167.209	15.526
F4	310427.296	5819194.804	15.864

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
F1 - F2	39.190	30.000	20.520	1.737	1.300	5.105	4.956	5.130	15.623
F2 - F3	31.482	12.000	6.594	0.450	0.337	1.643	1.612	1.648	15.482
F3 - F4	20.351	80.000	28.415	1.258	0.943	7.094	7.038	7.104	15.720

ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	310439.910	5819150.914	15.133
H2	310423.110	5819160.613	15.347
H3	310423.110	5819141.214	14.867

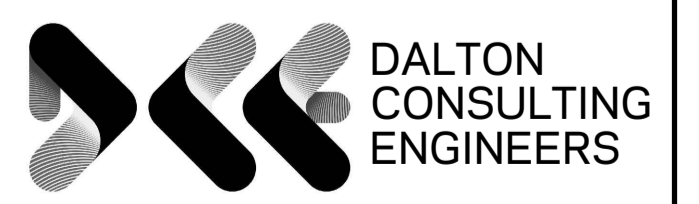
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
H1 - H2	120.000	11.200	23.457	5.600	4.099	5.600	4.099	5.864	15.365
H2 - H3	120.000	11.200	23.457	5.600	4.099	5.600	4.099	5.864	15.101
H3 - H1	120.000	11.200	23.457	5.600	4.099	5.600	4.099	5.864	14.885

REV	DESCRIPTION	DATE	APP'D.
0	CONSTRUCTION ISSUE	01/02/18	TL
	AMENDMENTS	DATE	APP'D.

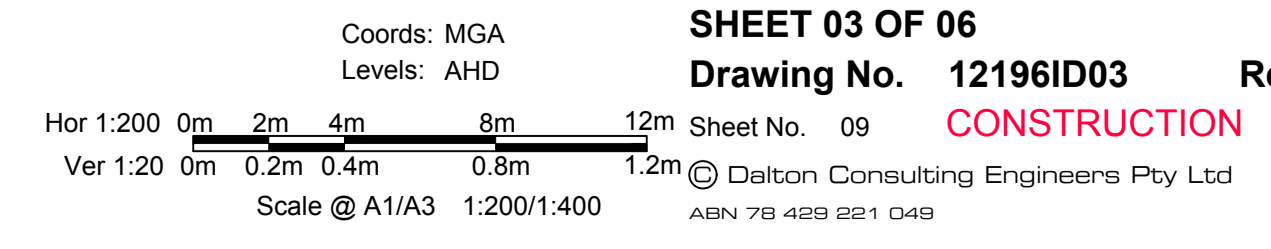
Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631476
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 9437819
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 INTERSECTION DETAILS
 SHEET 03 OF 06
 Drawing No. 12196ID03 Rev 0



VICTORIA
 T 61 3 9813 7400
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 ABN 78 429 221 049
 QUEENSLAND
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 E info@dceng.com.au



Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Project File: C:\Users\jacob.burns\OneDrive - Atlantic Link Pty Ltd\Documents\12196-River Valley - Stage 7B - 11\Word\10\10100001.dwg
 Date/Time: Thu Jun 07, 2018 - 10:07am --jacob.burns--

ALIGNMENT AD

POINT NO	EASTING	NORTHING	RL
AD1	310429.300	5819122.888	14.387
AD2	310431.459	5819132.545	14.640
AD3	310430.391	5819134.002	14.685
AD4	310425.156	5819134.454	14.719
AD5	310424.843	5819134.071	14.706
AD6	310428.139	5819122.850	14.420
AD7	310428.734	5819122.419	14.403

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
AD2 - AD3	97.676	1.200	2.046	0.410	0.303	0.496	0.407	0.511	14.667
AD4 - AD5	111.300	0.300	0.583	0.131	0.096	0.146	0.146	0.146	14.714
AD6 - AD7	75.512	0.600	0.791	0.126	0.093	0.194	0.173	0.198	14.411
AD7 - AD1	75.512	0.600	0.791	0.126	0.093	0.194	0.173	0.198	14.395

ALIGNMENT AE

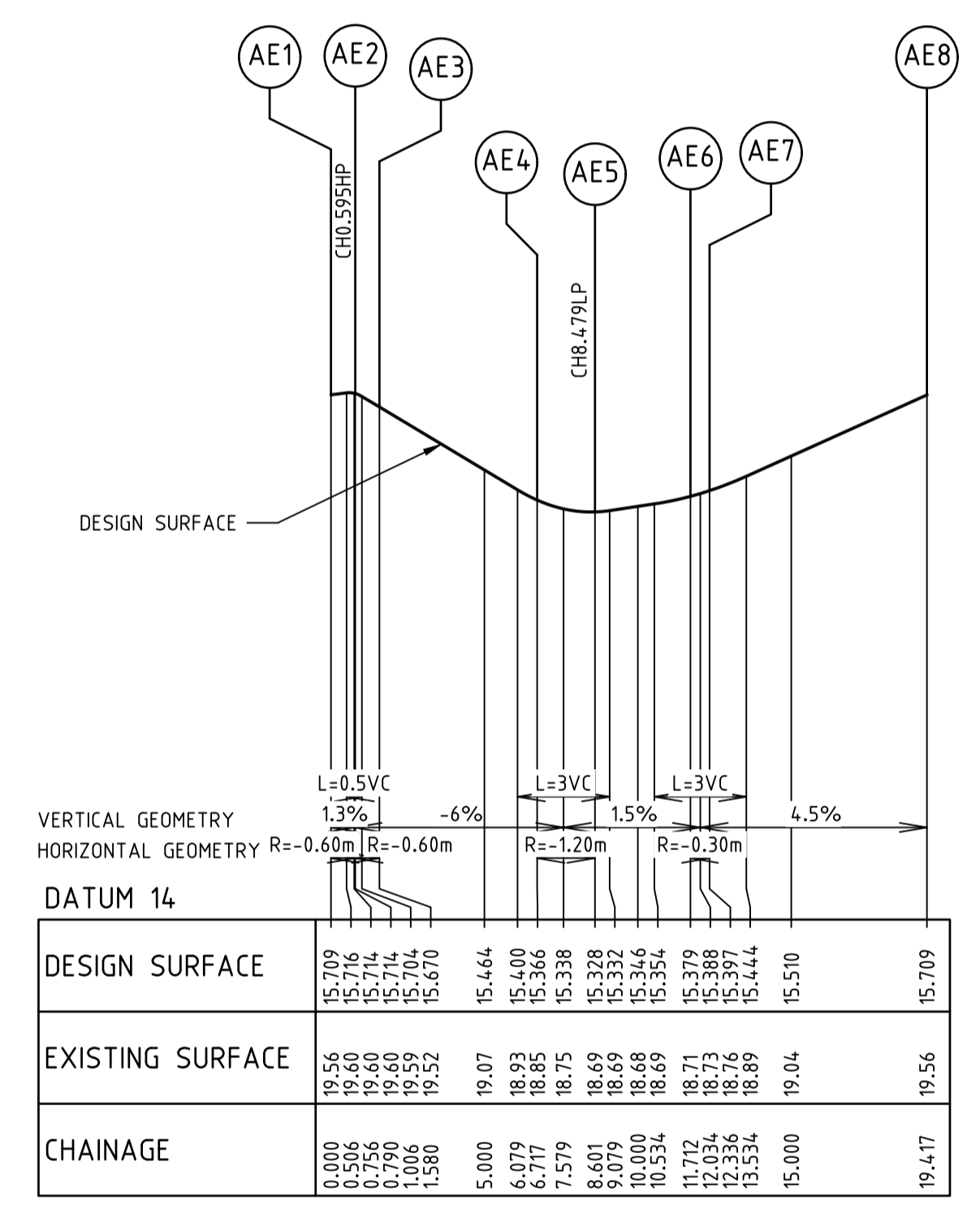
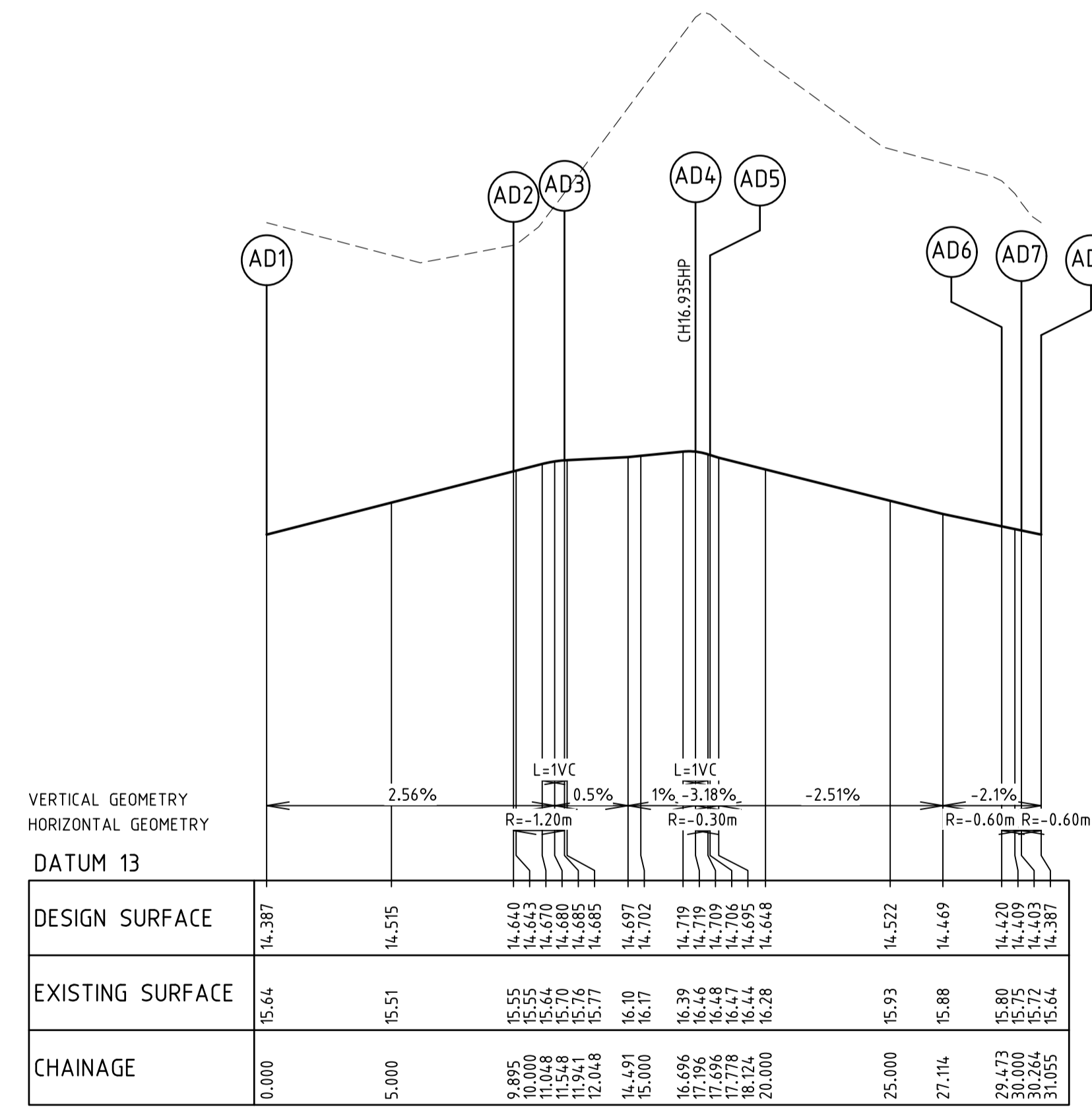
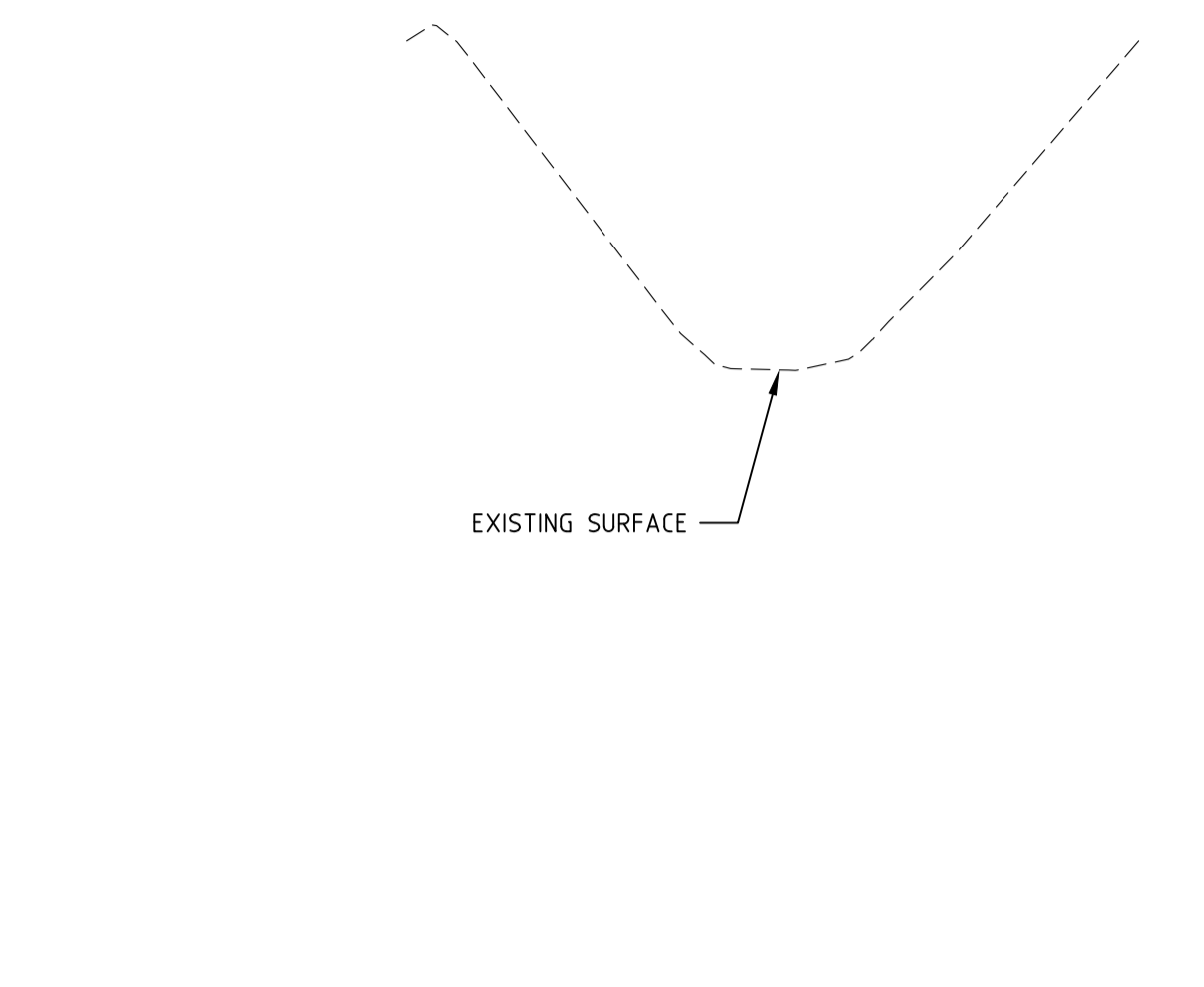
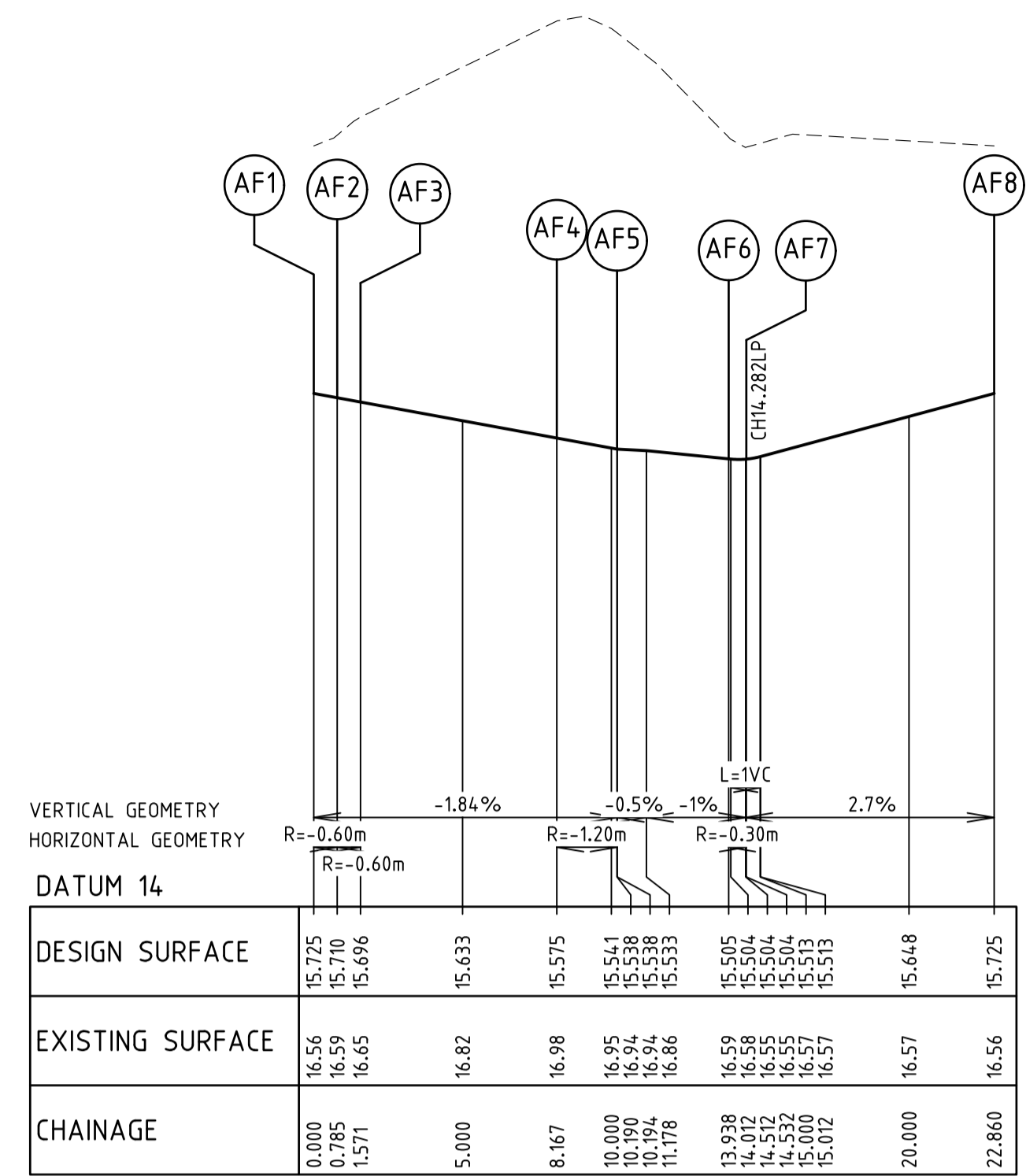
POINT NO	EASTING	NORTHING	RL
AE1	310405.086	5819152.131	15.709
AE2	310404.690	5819151.513	15.714
AE3	310405.188	5819150.974	15.670
AE4	310410.255	5819150.128	15.366
AE5	310411.636	5819151.113	15.328
AE6	310412.151	5819154.181	15.379
AE7	310411.755	5819154.513	15.397

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
AE1 - AE2	75.433	0.600	0.790	0.125	0.093	0.194	0.173	0.197	15.714
AE2 - AE3	75.433	0.600	0.790	0.125	0.093	0.194	0.173	0.197	15.693
AE4 - AE5	89.958	1.200	1.884	0.351	0.260	0.459	0.389	0.471	15.336
AE6 - AE7	119.181	0.300	0.624	0.148	0.108	0.149	0.110	0.156	15.387

ALIGNMENT AF

POINT NO	EASTING	NORTHING	RL
AF1	310430.091	5819175.631	15.725
AF2	310429.485	5819176.038	15.710
AF3	310428.934	5819175.558	15.696
AF4	310427.627	5819169.092	15.575
AF5	310428.702	5819167.659	15.538
AF6	310432.437	5819167.343	15.505
AF7	310432.747	5819167.737	15.504

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
AF1 - AF2	74.989	0.600	0.785	0.124	0.092	0.193	0.172	0.196	15.718
AF2 - AF3	74.989	0.600	0.785	0.124	0.092	0.193	0.172	0.196	15.703
AF4 - AF5	96.594	1.200	2.023	0.402	0.297	0.491	0.405	0.506	15.556
AF6 - AF7	113.428	0.300	0.594	0.135	0.099	0.142	0.108	0.148	15.503



REV	CONSTRUCTION ISSUE	DATE	APP'D.
0	CONSTRUCTION ISSUE	01/02/18	TL
	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631478
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943791
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 INTERSECTION DETAILS
 SHEET 05 OF 06
 Drawing No. 12196ID05 Rev 0

DALTON CONSULTING ENGINEERS

Coords: MGA
Levels: AHD

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Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m

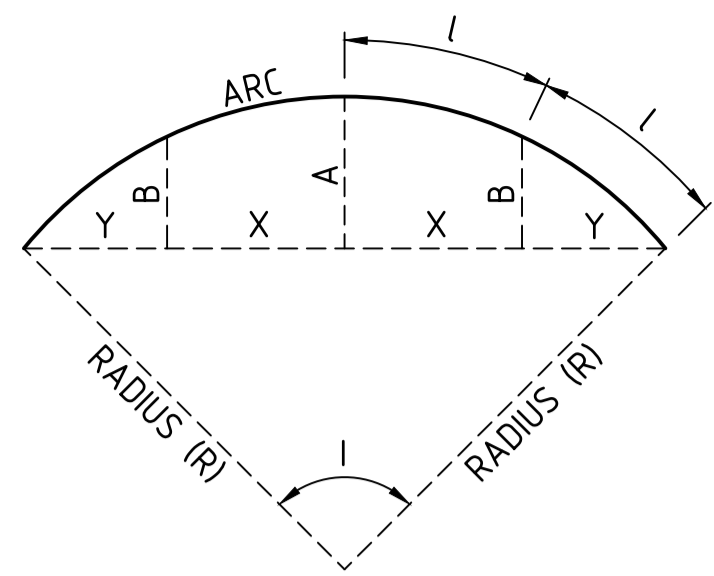
Scale @ A1/A3 1:200/1:400

Sheet No. 11 CONSTRUCTION

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LIP SETOUT DETAIL
NTS

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	310366.389	5819150.809	19.880
C2	310355.902	5819139.433	21.651
C3	310356.599	5819134.482	21.787

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
C1 - C2	101.361	10.000	17.691	3.664	2.701	4.280	3.456	4.423	20.892

ALIGNMENT D

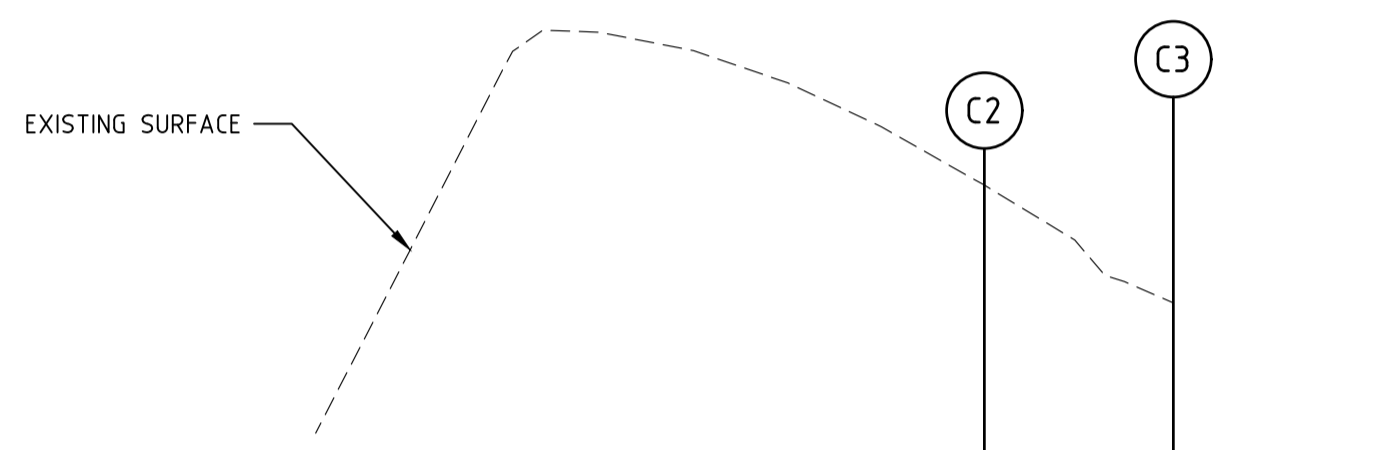
POINT NO	EASTING	NORTHING	RL
D1	310350.026	5819133.105	21.789
D2	310349.330	5819138.057	21.893
D3	310335.753	5819145.964	23.622

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
D2 - D3	103.550	10.000	18.073	3.812	2.809	4.366	3.490	4.518	22.697

ALIGNMENT AG

POINT NO	EASTING	NORTHING	RL
AG1	310350.606	5819147.361	21.918
AG2	310351.503	5819143.954	21.881
AG3	310351.918	5819143.678	21.851
AG4	310352.241	5819144.057	21.808
AG5	310352.164	5819147.573	21.729
AG6	310351.268	5819148.324	21.827

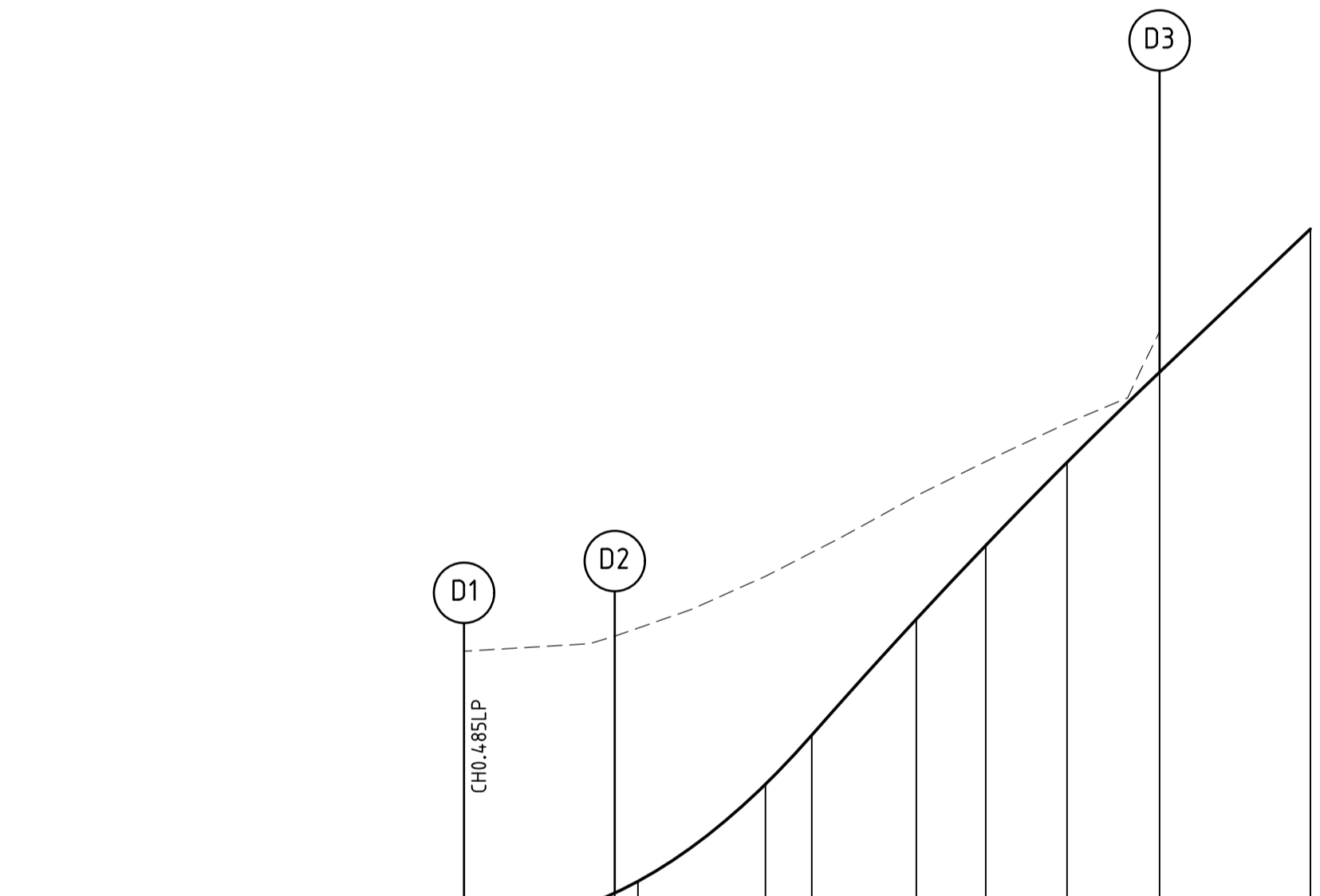
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AG2 - AG3	83.251	0.375	0.545	0.095	0.070	0.133	0.116	0.136	21.872
AG3 - AG4	83.251	0.375	0.545	0.095	0.070	0.133	0.116	0.136	21.826
AG5 - AG6	95.484	0.790	1.316	0.259	0.191	0.320	0.265	0.329	21.753
AG6 - AG1	95.484	0.790	1.316	0.259	0.191	0.320	0.265	0.329	21.894



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM 18

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
19.280		-5.000
19.880	21.90	0.000
20.644	22.87	5.000
20.540	22.95	5.673
21.016	22.91	10.000
21.160	22.87	11.345
21.486	22.71	15.000
21.616	22.59	17.008
21.651	22.55	17.691
21.742	22.41	20.000
21.787	22.24	22.691
21.812		27.691

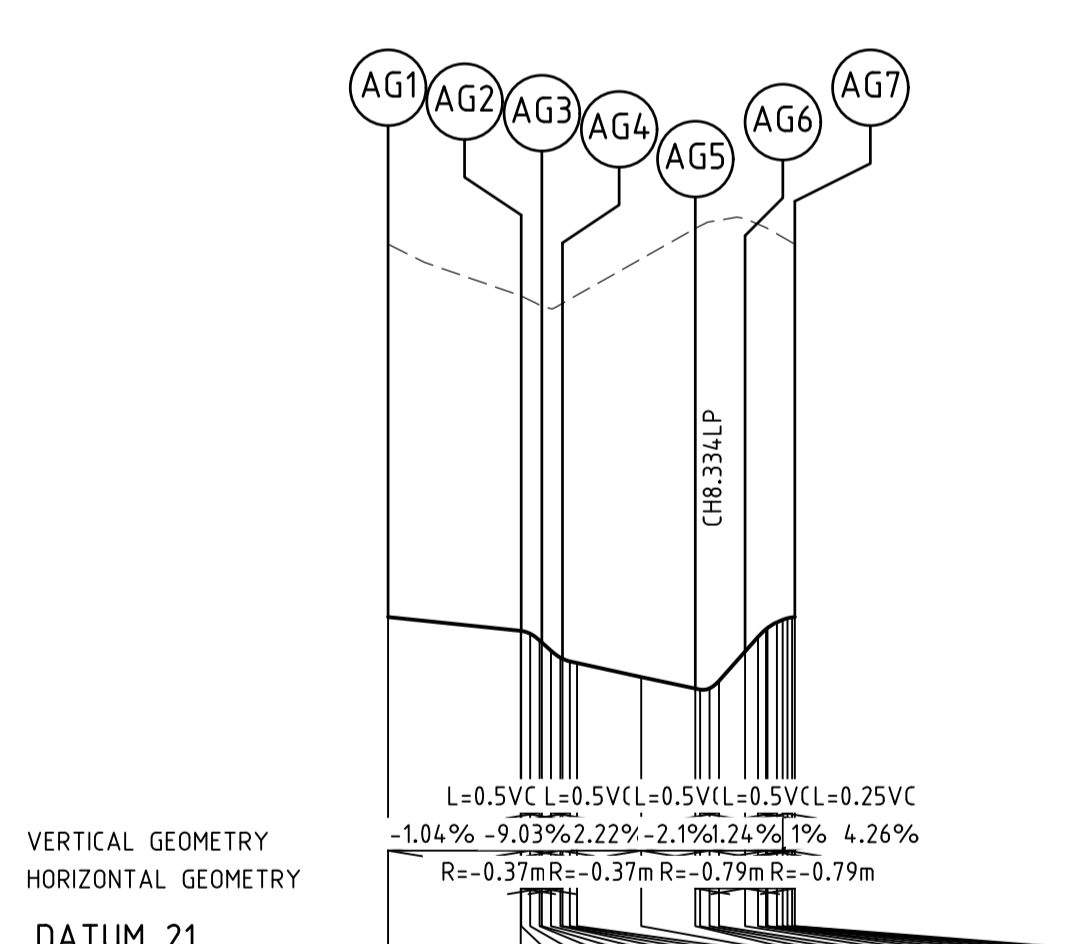
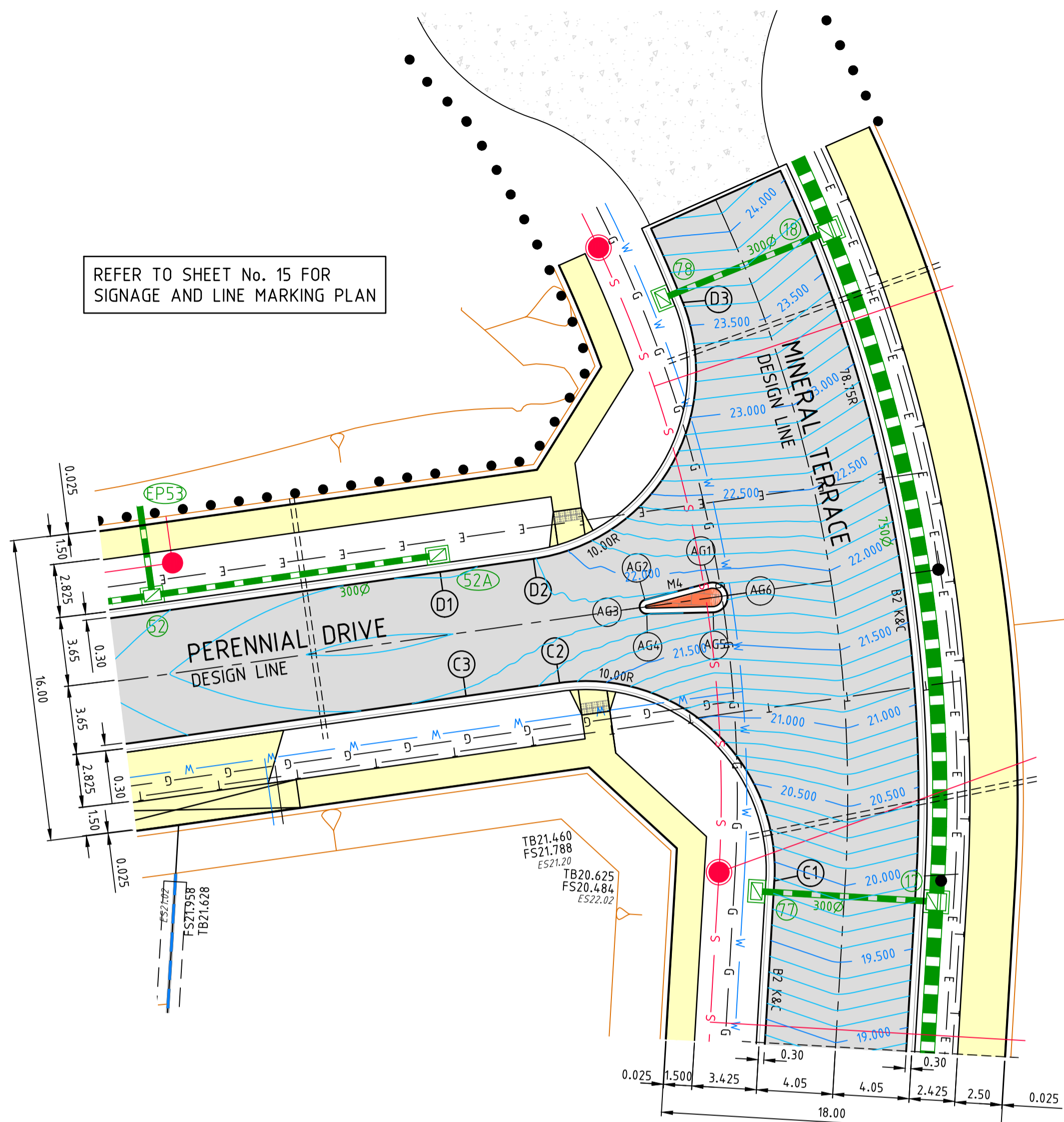
LIP PROFILE 'C'



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM 21

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
21.814		-5.000
21.789	22.70	0.000
21.893	22.95	5.000
21.932	22.77	5.768
22.255	22.84	10.000
22.417	23.02	11.536
22.802	23.21	15.000
23.047	23.33	17.305
23.322	23.45	20.000
23.622	23.76	23.073
24.097		28.073

LIP PROFILE 'D'



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM 21

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
21.918		0.000
21.881	22.77	3.509
21.874	22.76	3.759
21.856	22.74	4.009
21.850	22.74	4.259
21.880	22.75	4.509
21.880	22.74	4.759
21.880	22.74	5.000
21.759	22.87	5.250
21.729	22.86	5.500
21.729	22.86	5.750
21.719	22.87	6.000
21.719	22.86	6.250
21.886	22.85	6.500
21.886	22.85	6.750
21.889	22.85	7.000
21.889	22.85	7.250
21.915	22.82	7.500
21.915	22.81	7.750
21.918	22.80	8.000

LIP PROFILE 'AG'

Drawing File: C:\Users\jacob.burns\OneDrive\Documents\12196-River Valley - Stage 7B_11\Sheet10.dwg
 Project Name: 12196-River Valley - Stage 7B_11
 Date/Time: Thu Jun 07, 2018 - 10:07am --jacob.burns--

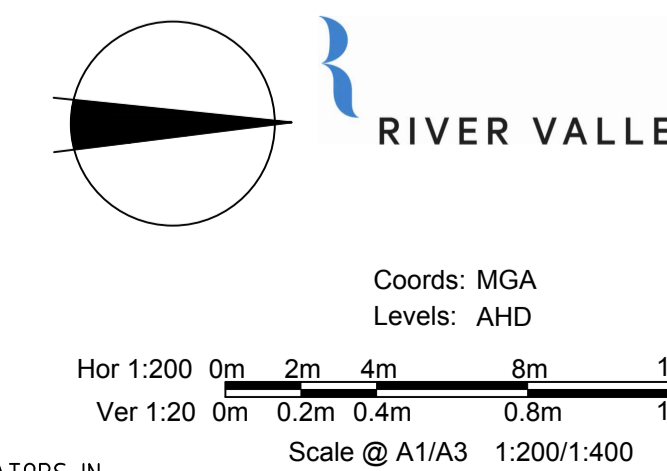
REV	AMENDMENTS	DATE	APP'D.
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631479
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943792
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

- Ex W EXISTING WATER MAIN
- Ex G EXISTING GAS MAIN
- Ex E EXISTING ELECTRICAL CABLE
- Ex S-O EXISTING SEWER MAIN & MANHOLE
- Ex T EXISTING TELECOMM. CABLE AND PIT
- Ex V EXISTING ELEC. POLE & O'HEAD LINES
- Ex P EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED

- LEGEND**
- S SEWER MAIN AND MANHOLE
 - SD STORMWATER DRAIN & PIT
 - SW SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
 - PI PROPERTY INLETS
 - HD HOUSE DRAIN
 - W WATER
 - T TELECOMMUNICATIONS
 - E ELECTRICITY
 - G GAS
 - SC SERVICE CONDUIT
 - PM PERMANENT SURVEY MARK
 - TM TEMPORARY BENCH MARK

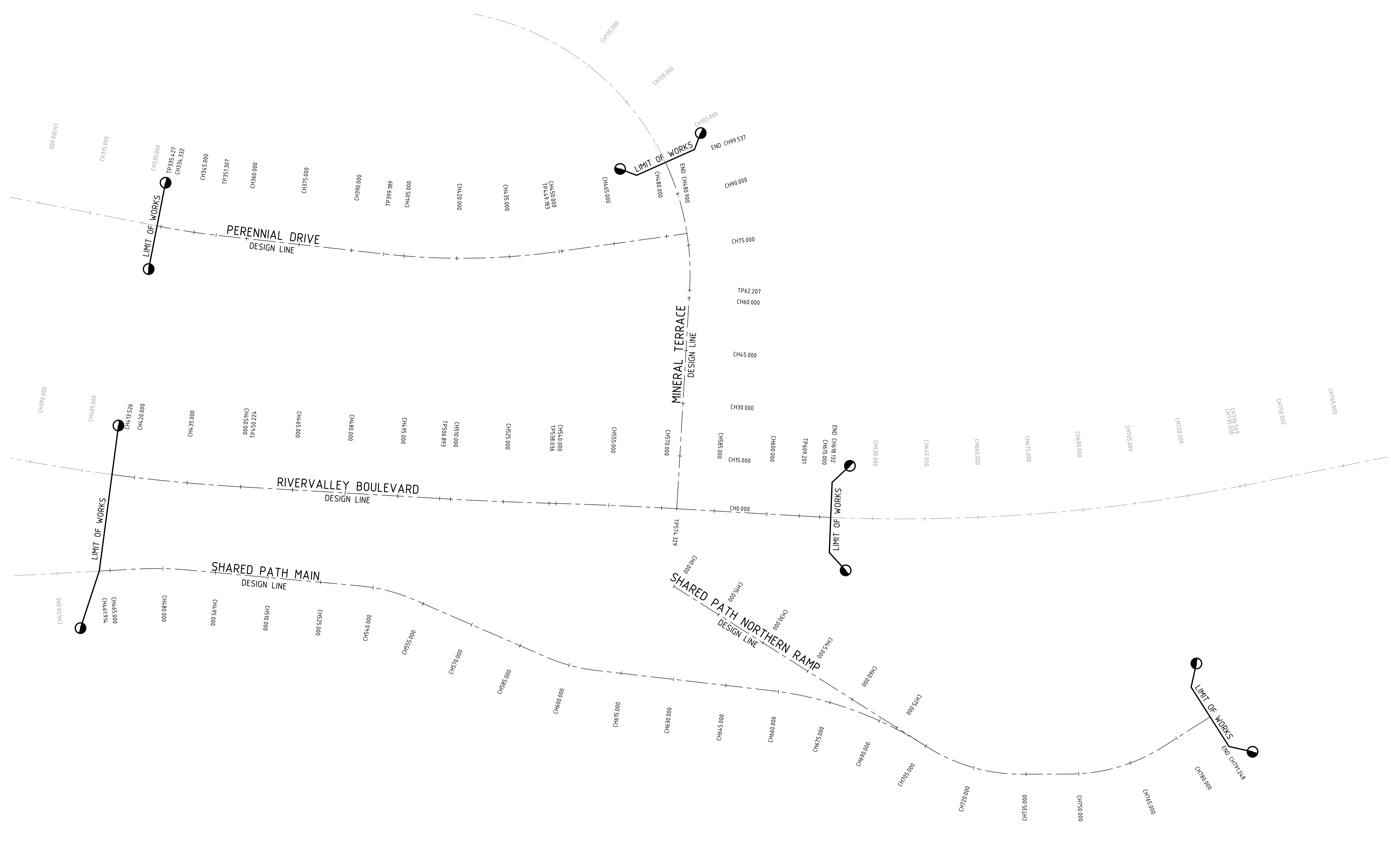
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LANDSCAPING
- STAMPED CONCRETE
- EXISTING SURFACE LEVEL
- FS20.06 FINISHED SURFACE LEVEL
- PL21.650 PAD LEVEL
- TW21.650 TOP OF WALL LEVEL
- 15.000 FINISHED SURFACE CONTOUR
- DENOTES TACTILE GROUND INDICATORS IN ACCORDANCE WITH AS. 1428



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
INTERSECTION DETAILS
SHEET 06 OF 06
Drawing No. 12196ID06 Rev 0
 Coords: MGA
 Levels: AHD
 Hor 1:200 0m 2m 4m 8m 12m
 Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
 Scale @ A1/A3 1:200/1:400
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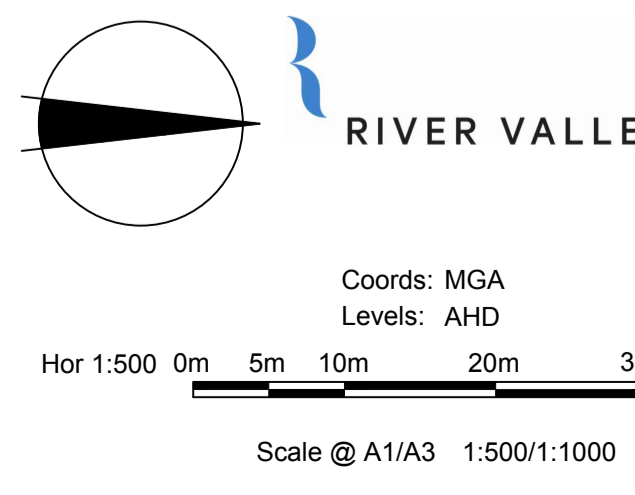
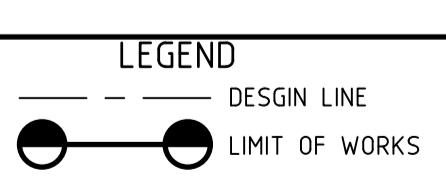
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Project File: C:\24_Sunshine\12196-River Valley - Stage 7B_11\Area1\DWG\12196-SET-OUT-CONSTRUCTION-AMENDMENTS.dwg
 Date/Time: Thu Jun 07, 2018 - 10:07am --jacob.burns--



NO	DESCRIPTION	DATE	APP'D.
0	CONSTRUCTION ISSUE	01/02/18	TL
	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631480
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 9437933
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 SET OUT DETAILS
 SHEET 01 OF 02
 Drawing No. 12196SOP01 Rev 0
 Sheet No. 13 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

LINEMARKING LEGEND

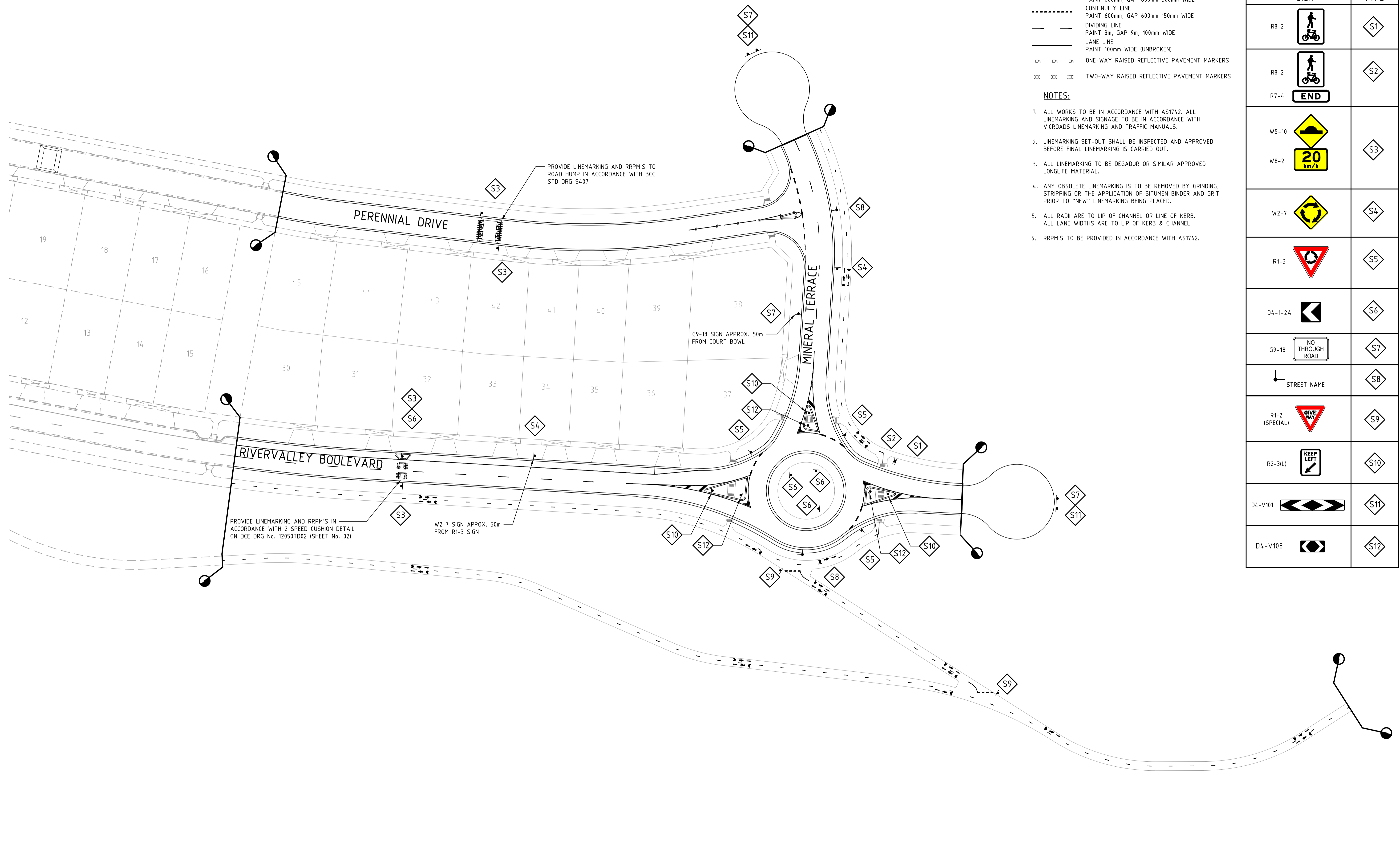
- GIVE WAY LINE
PAINT 600mm, GAP 600mm 300mm WIDE
- CONTINUITY LINE
PAINT 600mm, GAP 600mm 150mm WIDE
- DIVIDING LINE
PAINT 3m, GAP 9m, 100mm WIDE
- LANE LINE
PAINT 100mm WIDE (UNBROKEN)
- ☐ ☐ ☐ ONE-WAY RAISED REFLECTIVE PAVEMENT MARKERS
- ☐ ☐ ☐ TWO-WAY RAISED REFLECTIVE PAVEMENT MARKERS

NOTES:

1. ALL WORKS TO BE IN ACCORDANCE WITH AS1742. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.
2. LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
3. ALL LINEMARKING TO BE DEGADUR OR SIMILAR APPROVED LONGLIFE MATERIAL.
4. ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING, STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO "NEW" LINEMARKING BEING PLACED.
5. ALL RADII ARE TO LIP OF CHANNEL OR LINE OF KERB. ALL LANE WIDTHS ARE TO LIP OF KERB & CHANNEL
6. RRPMS TO BE PROVIDED IN ACCORDANCE WITH AS1742.

SIGNAGE LEGEND
N.T.S.

SIGN	TYPE
R8-2	S1
R8-2	S2
R7-4	S3
W5-10	S4
W8-2	S5
W2-7	S6
R1-3	S7
D4-1-2A	S8
G9-18	S9
STREET NAME	S10
R1-2 (SPECIAL)	S11
R2-3(L)	S12
D4-V101	S13
D4-V108	S14



Drawing File: C:\Users\jburns\OneDrive\Documents\12196-Sunshine North\Stage 7B-11\Road\101\101.dwg
 Date/Time: Thu Jun 07, 2018 - 10:07am --jacob.burns--

REV	AMENDMENTS	DATE	APP'D.
1	COUNCIL COMMENTS 23/02/18	05/03/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631482
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943795
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

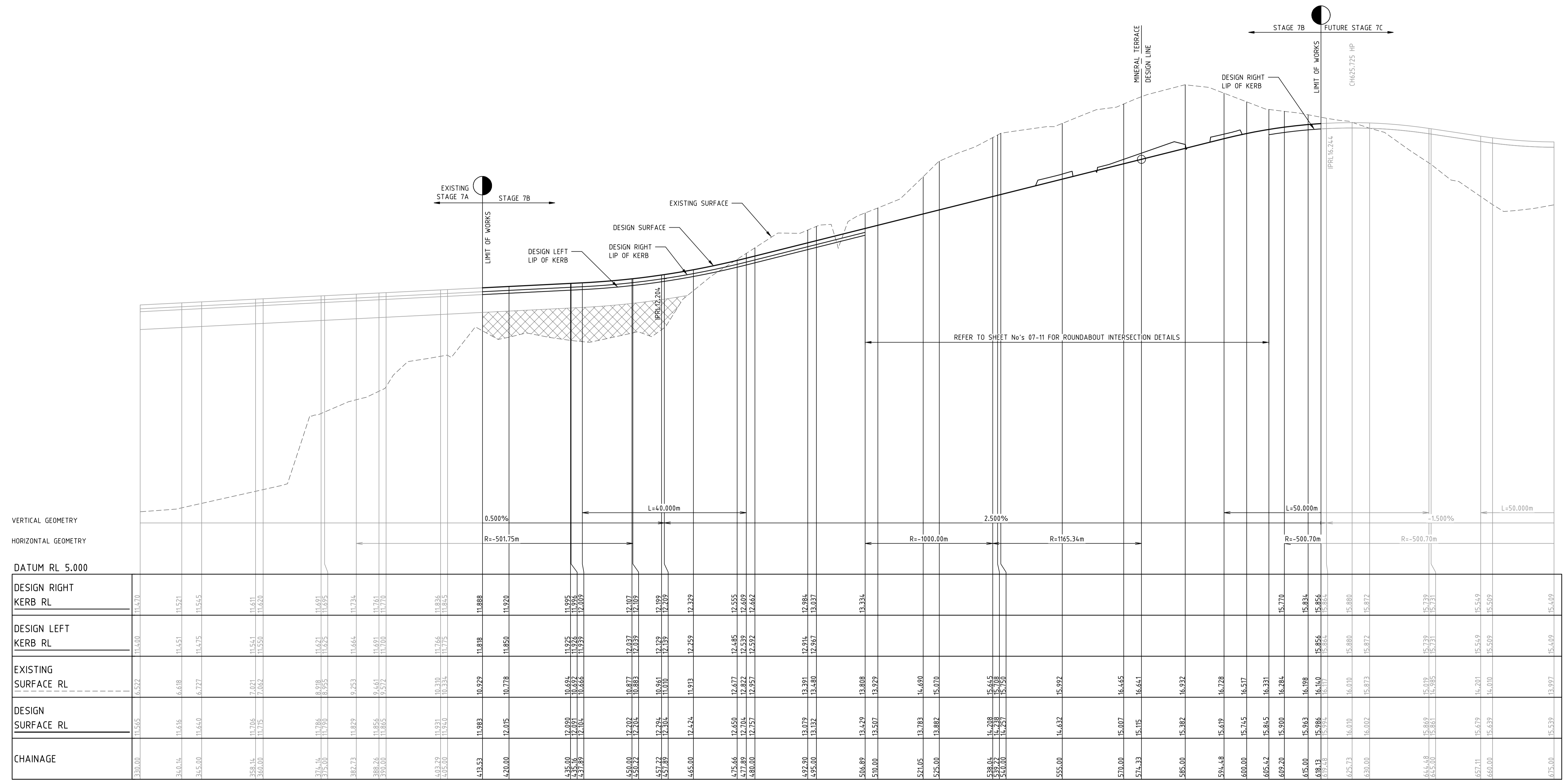
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 Scale @ A1/A3 1:500/1:1000

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 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 SIGNAGE AND LINEMARKING PLAN

Drawing No. 12196LM01 Rev 1
 Sheet No. 15 CONSTRUCTION
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Project File: C:\Users\jacobburns\OneDrive\Documents\1\2196-River Valley - Stage 7B_11\Word\101
 Project Name: Longitudinal Section
 Date/Time: Thu Jun 07, 2018 - 10:00am -- jacobburns



LONGITUDINAL SECTION RIVERVALLEY BOULEVARD - DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TOMKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631483
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943798
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
 SHEET 01 OF 05
 Drawing No. 12196LS01 Rev 1

Coords: MGA
 Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

Sheet No. 16 **CONSTRUCTION**

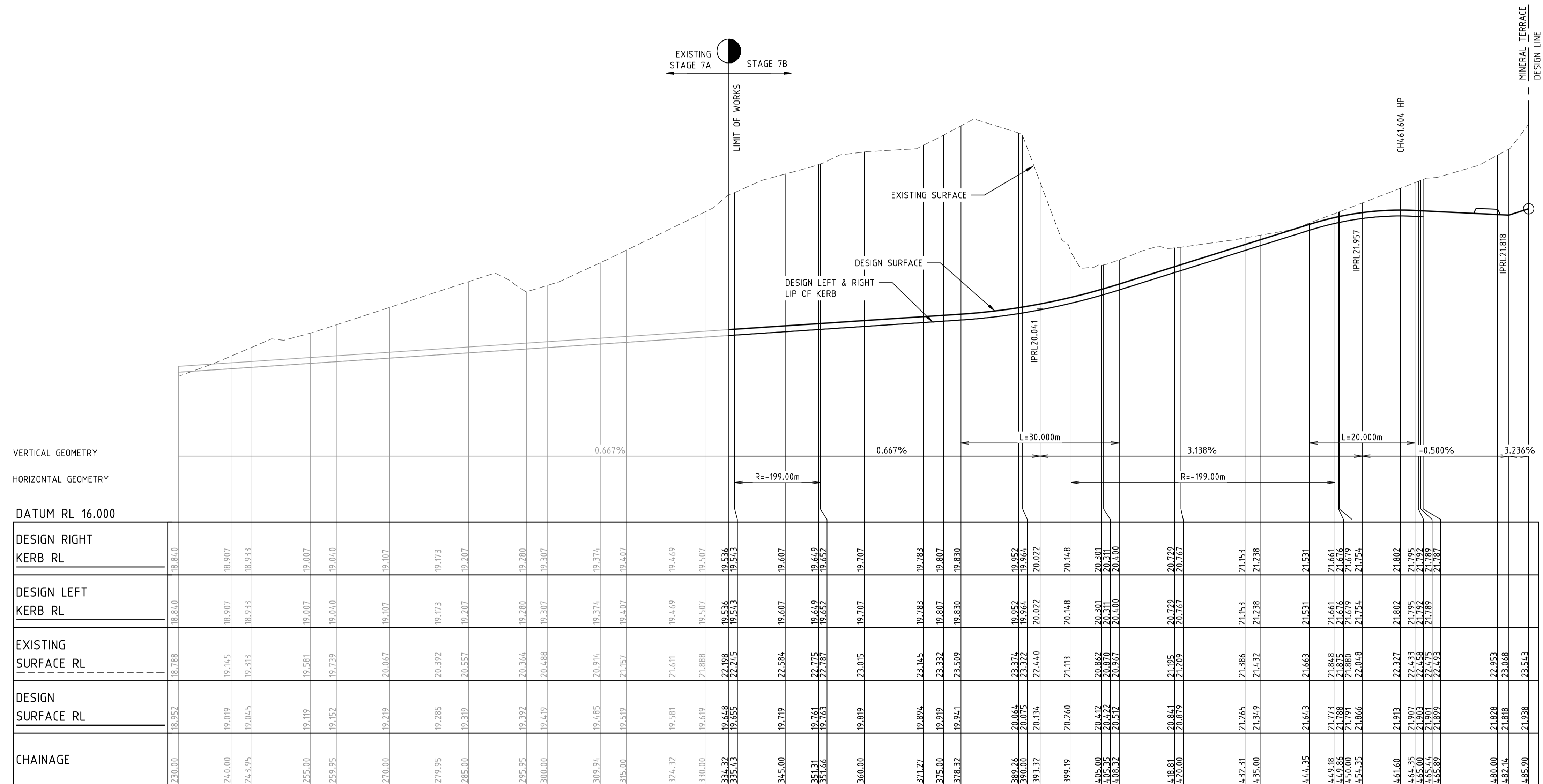
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Drawing File: C:\Users\jacob.burns\Documents\12196-River Valley - Stage 7B_11\Drawn\101
 Project Name: Longitudinal Section Perennial Drive - Design Line
 Date/Time: Thu Jun 07, 2018 - 10:07am -- jacob.burns--



LONGITUDINAL SECTION PERENNIAL DRIVE - DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TOMKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631484
 Verified T.THAUVENDRAN
 Date 05/07/17
 AN 943797
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
 SHEET 02 OF 05
 Drawing No. 12196LS02 Rev 1
 Sheet No. 17 CONSTRUCTION

Coords: MGA
 Levels: AHD

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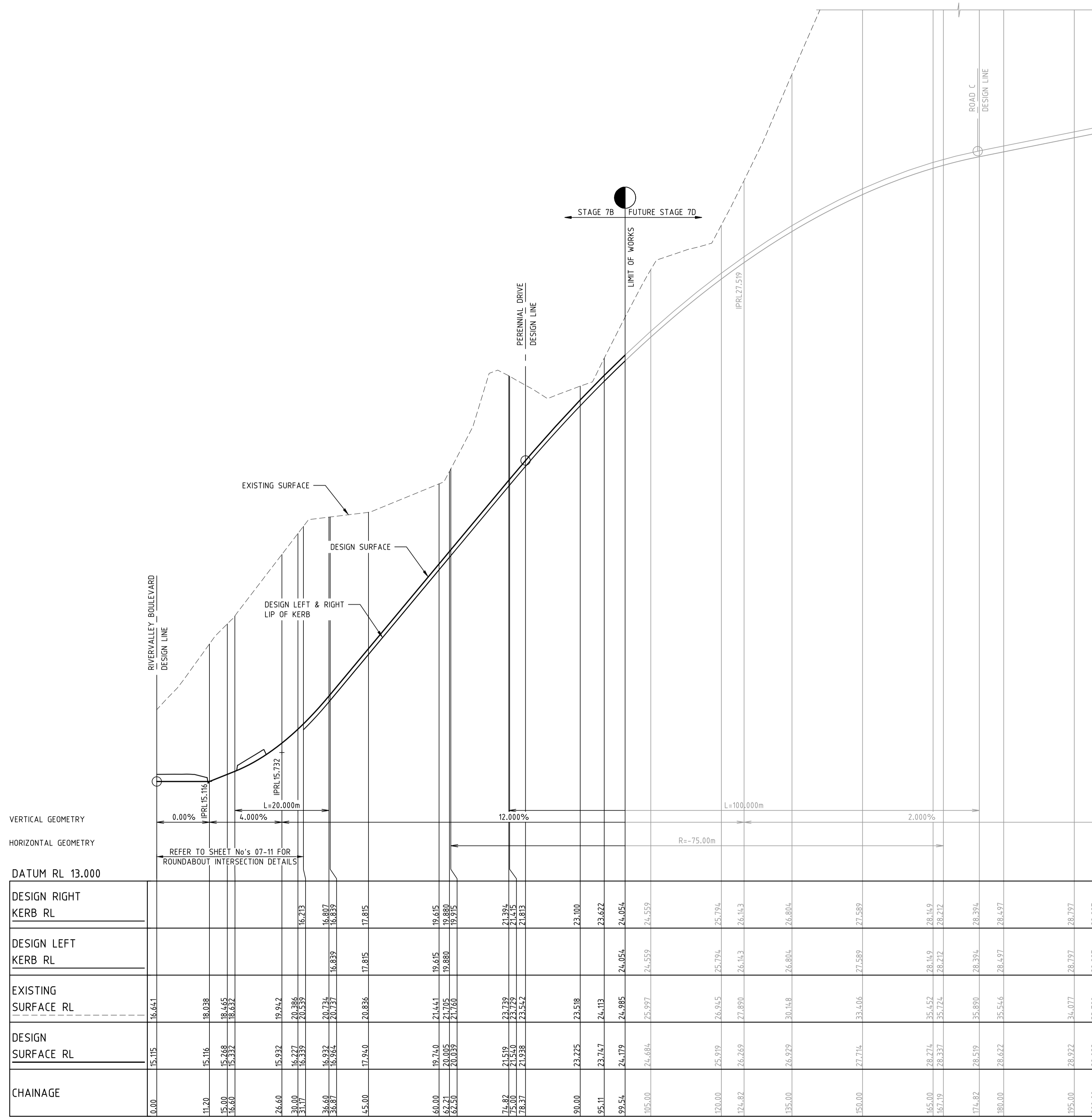
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Drawing File: C:\Users\jacob.burns\Documents\Projects\12196-River Valley - Stage 7B_11\Drawn\70\Drawn\Stage 03 Longitudinal Sections - Stage 7B - 1000.dwg
 Date/Time: Thu Jun 07, 2018 - 10:07am --jacob.burns--



LONGITUDINAL SECTION MINERAL TERRACE - DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

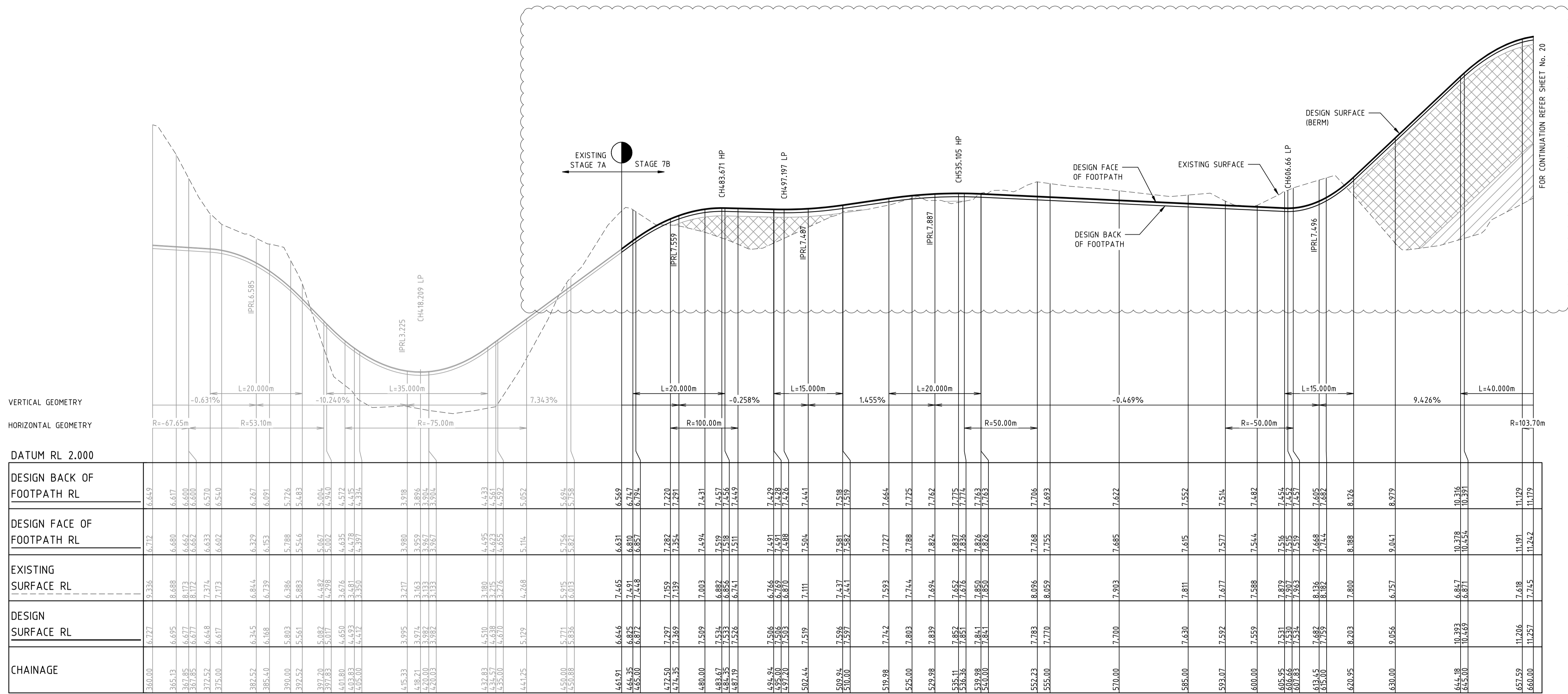
Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631485
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943798
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
LONGITUDINAL SECTIONS
SHEET 03 OF 05
Drawing No. 12196LS03 Rev 1
Sheet No. 18 CONSTRUCTION
 Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000
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 ABN 78 429 221 049

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 E info@dceng.com.au

Drawing File: C:\Users\jburns\OneDrive - Tonkin and Taylors\Documents\1\2196-River Valley - Stage 7B_11\Drawn\10\100020m - jacob.burns
 Date/Time: Thu Jun 07, 2018 - 10:07am



LONGITUDINAL SECTION SHARED PATH MAIN - DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D. AND SWELL, COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
	AMENDMENTS	DATE	APPD.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631486
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 9437949
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
 SHEET 04 OF 05
 Drawing No. 12196LS04 Rev 1
 Sheet No. **CONSTRUCTION**

Coords: MGA
 Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

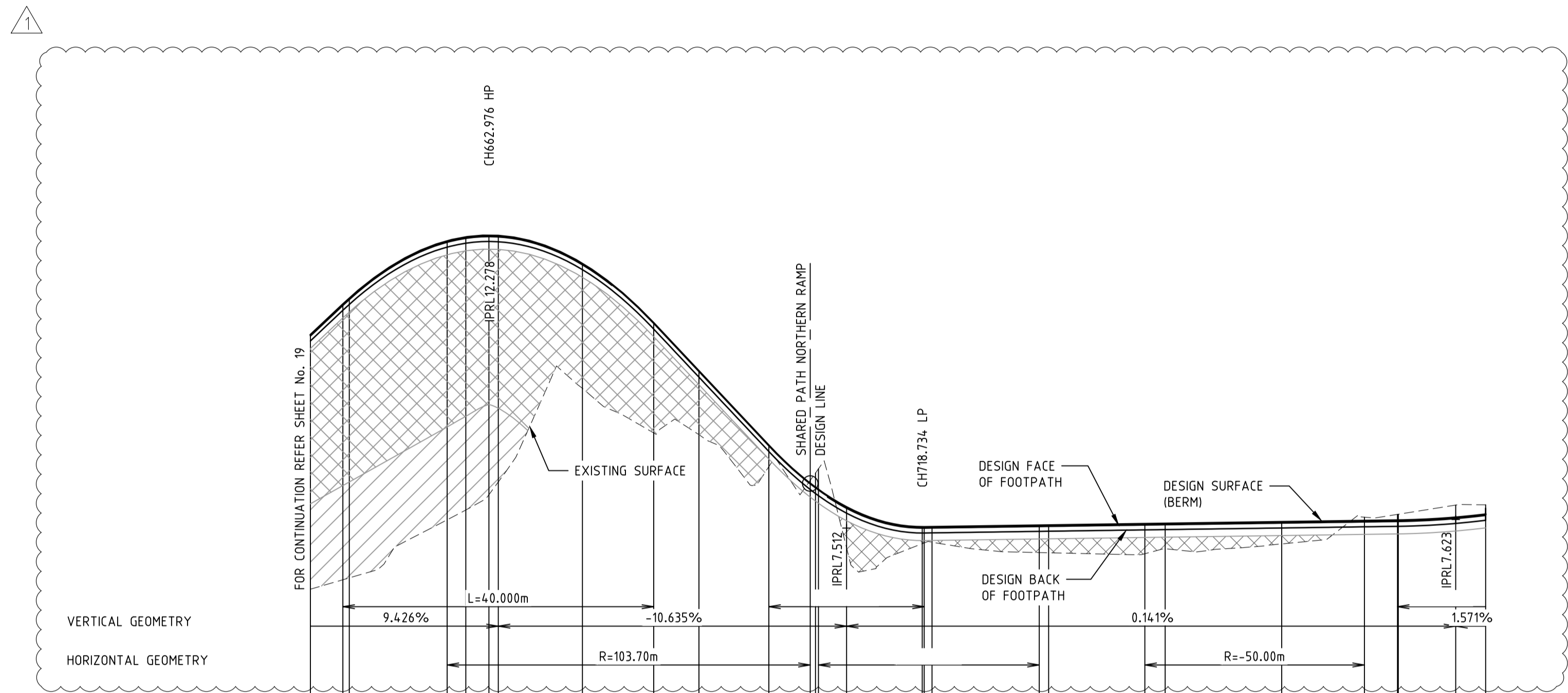
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 E info@dceng.com.au

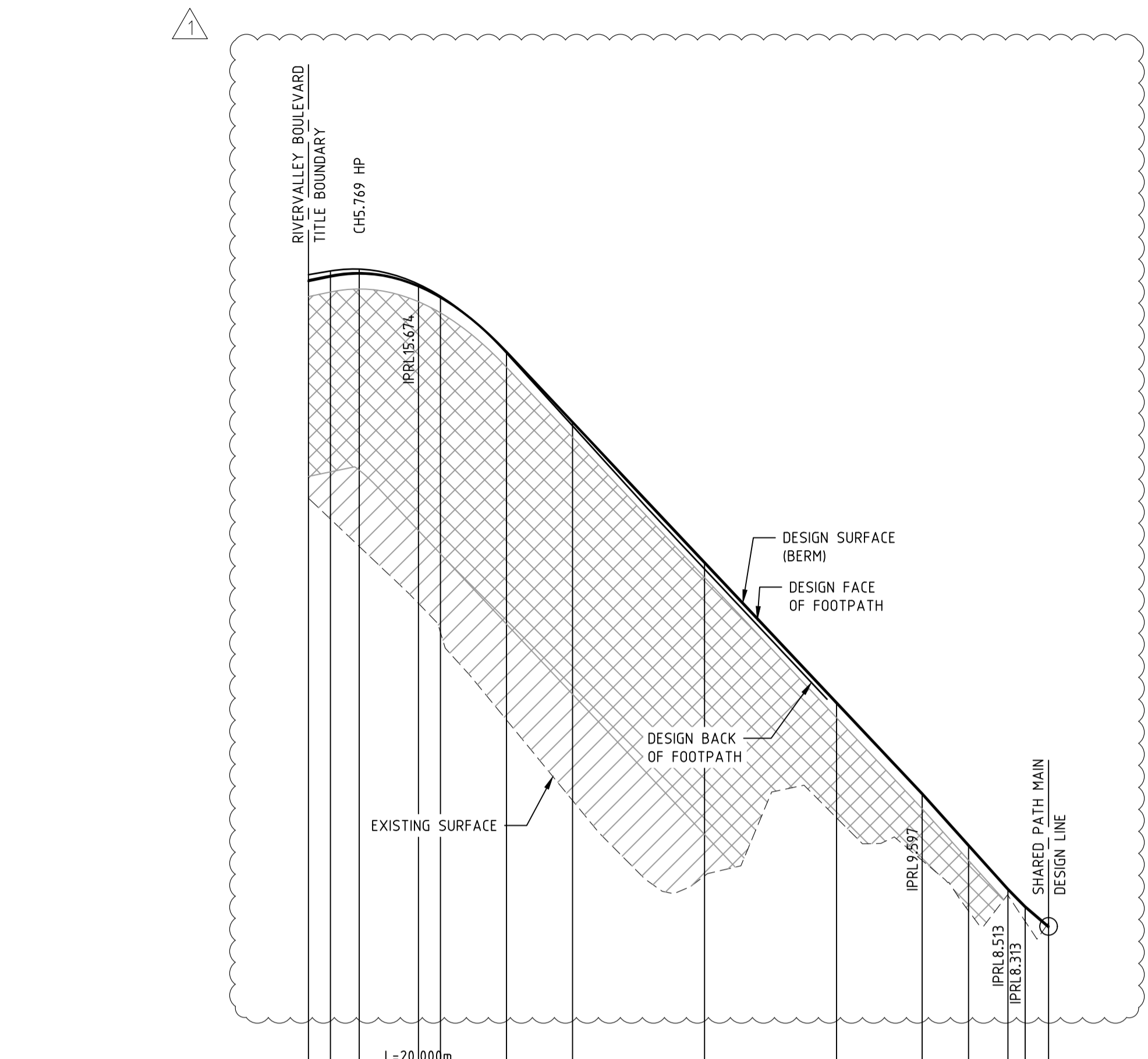
Drawing File: C:\191_Sunshine\1\2196-River Valley - Stage 7B_11\Road\10\100000.dwg
 Date/Time: Thu Jun 07, 2018 - 10:07am -- jacob.burns--



DATUM RL 5.000

DESIGN BACK OF FOOTPATH RL	9.972	10.316	10.391	11.129	11.201	11.197	10.839	10.074	9.455	8.498	8.008	7.997	7.929	7.834	7.470	7.449	7.450	7.430	7.412	7.489	7.493	7.514	7.572	7.767
DESIGN FACE OF FOOTPATH RL	9.984	10.378	10.454	11.191	11.264	11.260	10.901	10.074	9.455	8.498	8.008	7.997	7.929	7.834	7.470	7.449	7.450	7.430	7.412	7.489	7.493	7.514	7.572	7.767
EXISTING SURFACE RL	6.726	6.847	6.871	7.618	7.745	7.745	7.311	6.752	6.715	6.310	6.136	6.222	6.275	6.267	5.312	5.311	5.310	5.310	5.310	5.182	5.182	5.182	5.182	5.182
DESIGN SURFACE RL	9.999	10.393	10.469	11.206	11.279	11.275	10.916	10.091	9.472	8.516	8.026	8.015	7.947	7.852	7.488	7.467	7.468	7.468	7.468	7.540	7.544	7.544	7.544	7.544
CHAINAGE	644.00	644.18	645.00	657.59	660.00	662.98	675.00	685.48	690.00	699.00	704.32	705.00	705.38	705.00	718.73	720.00	720.00	720.00	720.00	733.80	735.00	741.39	750.00	765.00

LONGITUDINAL SECTION SHARED PATH MAIN - DESIGN LINE



DATUM RL 5.000

DESIGN RIGHT KERB RL	15.488	15.530	15.551	15.380	15.245	14.597	13.771	12.145	10.615	9.587	8.995	8.498	8.298	8.071	7.487	7.467	7.468	7.468	7.468	7.540	7.544	7.544	7.544	7.544
DESIGN LEFT KERB RL	15.429	15.479	15.510	15.361	15.233	14.609	13.807	12.208	10.615	9.587	8.995	8.498	8.298	8.071	7.487	7.467	7.468	7.468	7.468	7.540	7.544	7.544	7.544	7.544
EXISTING SURFACE RL	12.249	12.712	12.402	11.755	11.425	10.431	9.517	8.680	7.919	7.319	6.836	6.261	5.839	5.453	4.806	4.806	4.806	4.806	4.806	4.806	4.806	4.806	4.806	4.806
DESIGN SURFACE RL	15.415	15.467	15.500	15.357	15.230	14.612	13.816	12.223	10.630	9.597	9.010	8.513	8.313	8.086	7.492	7.471	7.472	7.472	7.472	7.544	7.548	7.548	7.548	7.548
CHAINAGE	0.00	2.50	5.77	12.50	15.00	22.50	30.00	45.00	60.00	69.72	75.00	79.47	81.53	84.09	88.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00

LONGITUDINAL SECTION SHARED PATH RAMP NORTH - DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631487
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943800
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

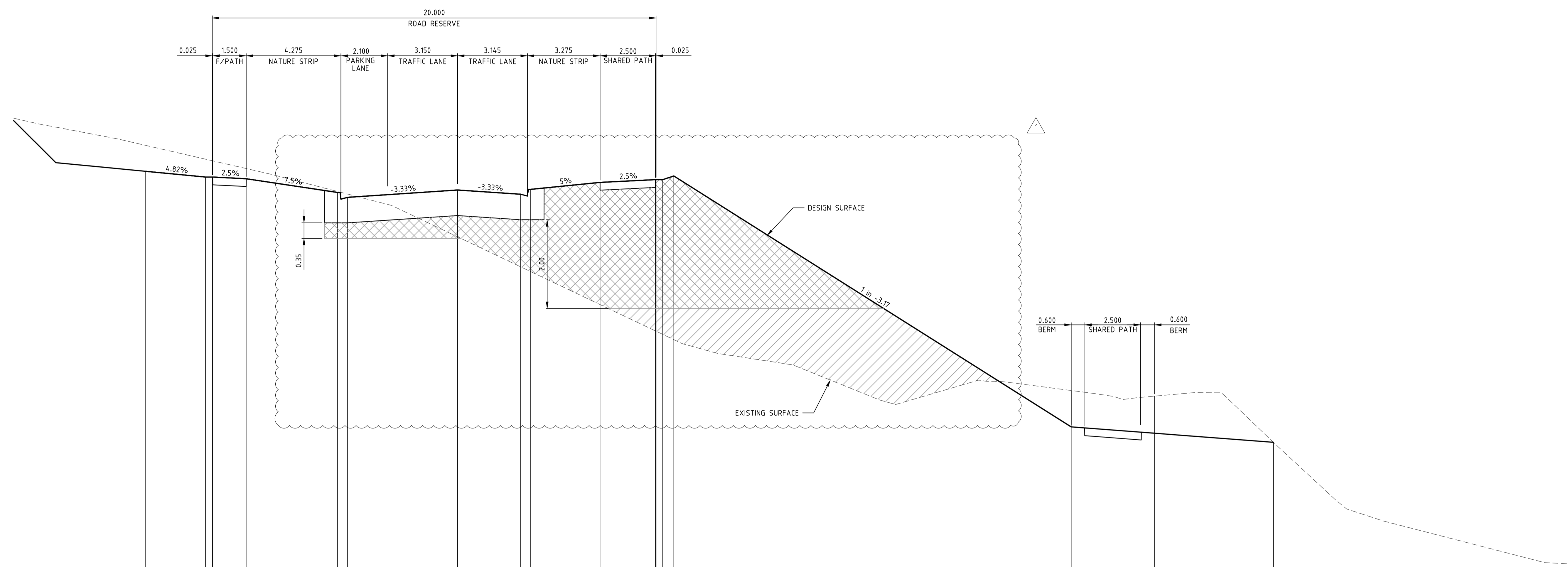
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

RIVER VALLEY
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
SHEET 05 OF 05
 Drawing No. 12196LS05 Rev 1
 Sheet No. 20 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\2196-River Valley - Stage 7B_11\Road\RD\1196XS01.dwg
 Date/Time: Thu Jun 07, 2018 - 10:07am -- jacob.burns--



	DATUM RL3.000									
DESIGN SURFACE										
EXISTING SURFACE										
OFFSET										

CH 413.526
RIVERVALLEY BOULEVARD

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631488
 Verified T.THAUVENDRAN
 Date 05/07/17
 AN 943801
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

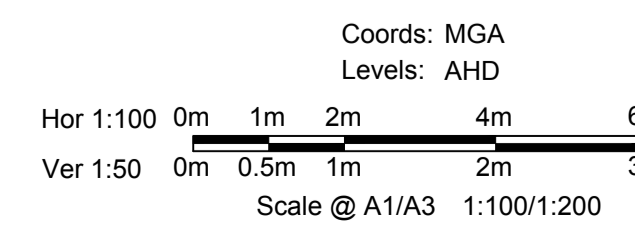
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

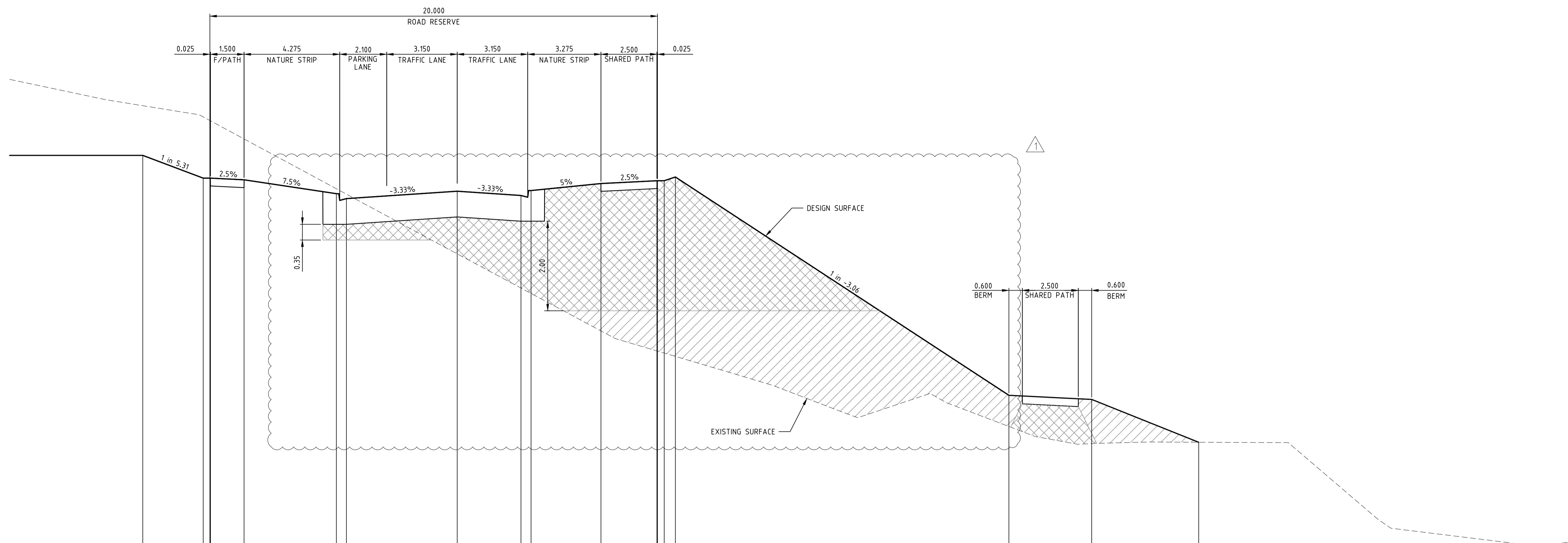


ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 01 OF 07
Drawing No. 12196XS01 Rev 1
 Sheet No. 21 **CONSTRUCTION**
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 ABN 78 429 221 049



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 W dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



DATUM RL3.000																			
DESIGN SURFACE		12.891	12.783	12.783	12.715		12.692	12.691	11.996	12.106		12.462		12.374	12.374	12.374	12.374	12.374	12.374
EXISTING SURFACE		16.001	13.75	12.663	12.383		12.025	11.926		9.928	11.996		8.971	8.574	8.574	8.574	8.574	8.574	8.574
OFFSET		-14.050	-10.967	-10.080	-10.399		-10.000	-10.692	-11.996	-11.996		-10.425		-10.975	-10.975	-10.975	-10.975	-10.975	-10.975

CH 435.156
RIVERVALLEY BOULEVARD

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

Project File: C:\24_Sydney\1\2196-river valley - Stage 7B - 11\Area\10\1000780.S1.v2.dwg
Drawing Title: RIVERVALLEY BOULEVARD CROSS SECTIONS
Date/Time: Thu Jan 07, 2018 10:00am -- jacob.burns --

NOT TO BE USED FOR CONSTRUCTION

1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631489
Verified T.THAVENDRAN
Date 05/07/17
AN 943802
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

LEGEND
 DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL $+1.5\%$. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 02 OF 07
Drawing No. 12196XS02 Rev 1



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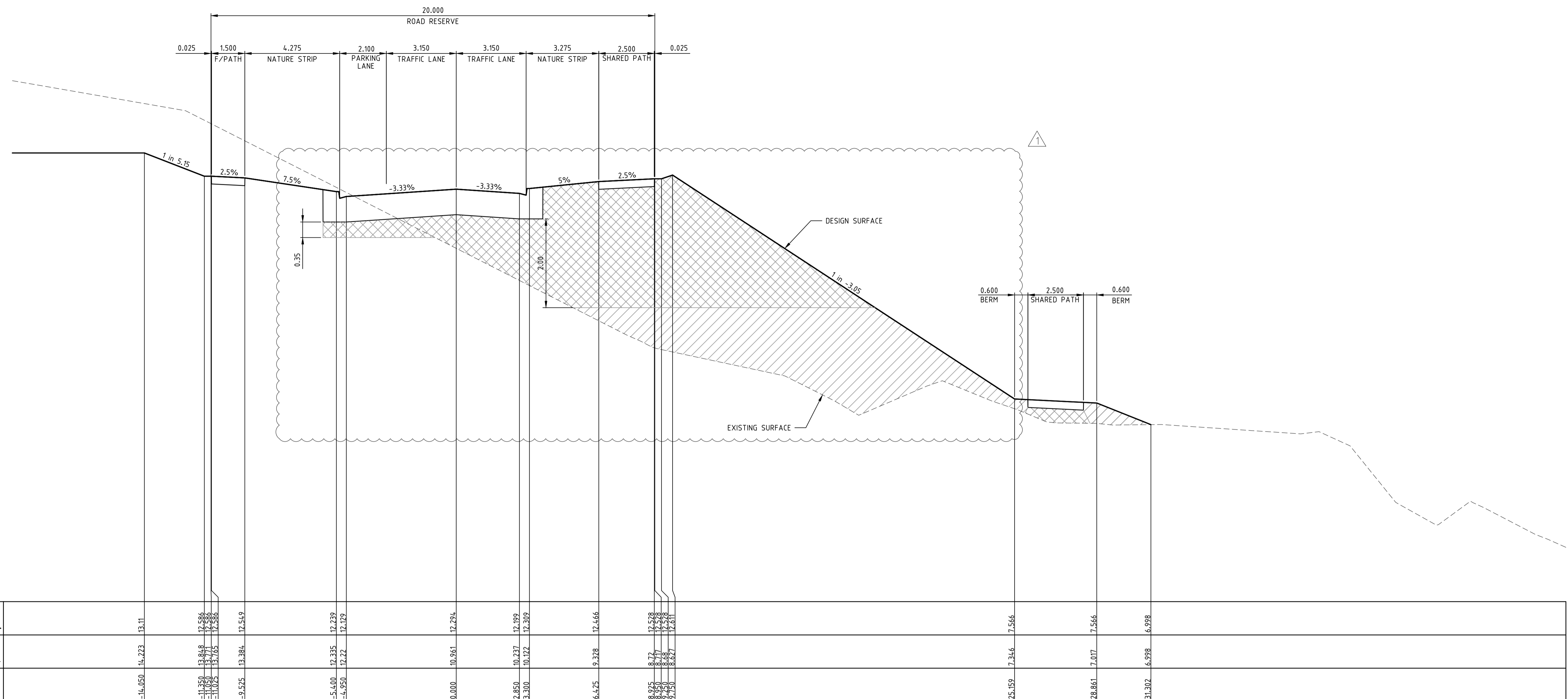
ABN 78 429 221 049

Coords: MGA
Levels: AHD

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Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

Sheet No. 22 CONSTRUCTION
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ABN 78 429 221 049

Drawing File: C:\24_Sydney\1\12196-River Valley - Stage 7B - 11\Road\RD\12196XS03.dwg
 Project Name: RIVER VALLEY ESTATE - STAGE 7B
 Date/Time: Thu Jun 07, 2018 10:07am --jacob.burns--



CH 457.216
RIVERVALLEY BOULEVARD

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631490
Verified T.THAVENDRAN
Date 05/07/17
AN 943803
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

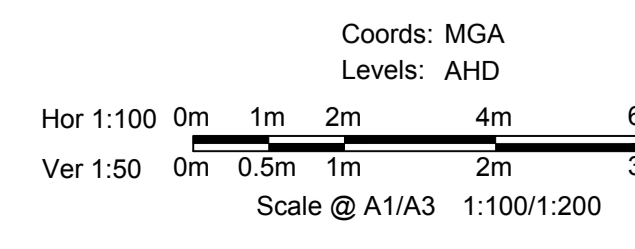
NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 03 OF 07
Drawing No. 12196XS03 Rev 1
Sheet No. 23 CONSTRUCTION

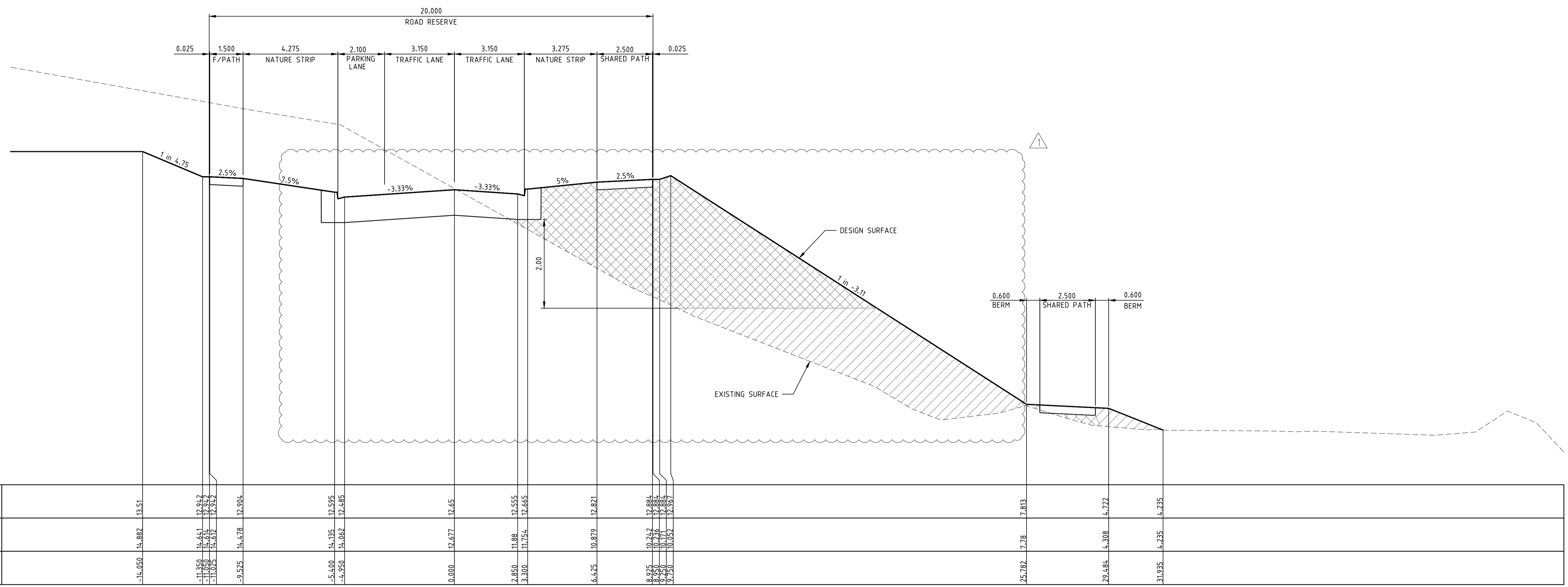


ABN 78 429 221 049
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QUEENSLAND
T 61 7 3374 9000
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Coords: MGA
Levels: AHD
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Drawing File: C:\24_Sydney\1\2196-River Valley - Stage 7B_11\Road\10\1196XS04.dwg
 Date/Time: Thu Jun 07, 2018 10:07am --jacob.burns--



CH 475.661
RIVERVALLEY BOULEVARD

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APPD.

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631491
Verified T.THAVENDRAN
Date 05/07/17
AN 943804
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



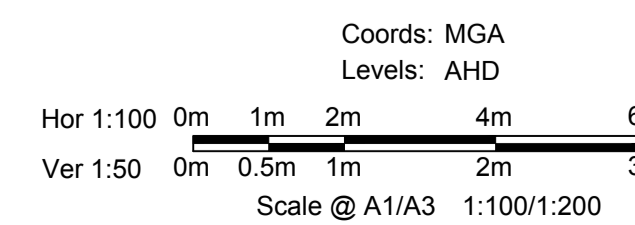
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 04 OF 07
Drawing No. 12196XS04 Rev 1
Sheet No. 24 CONSTRUCTION



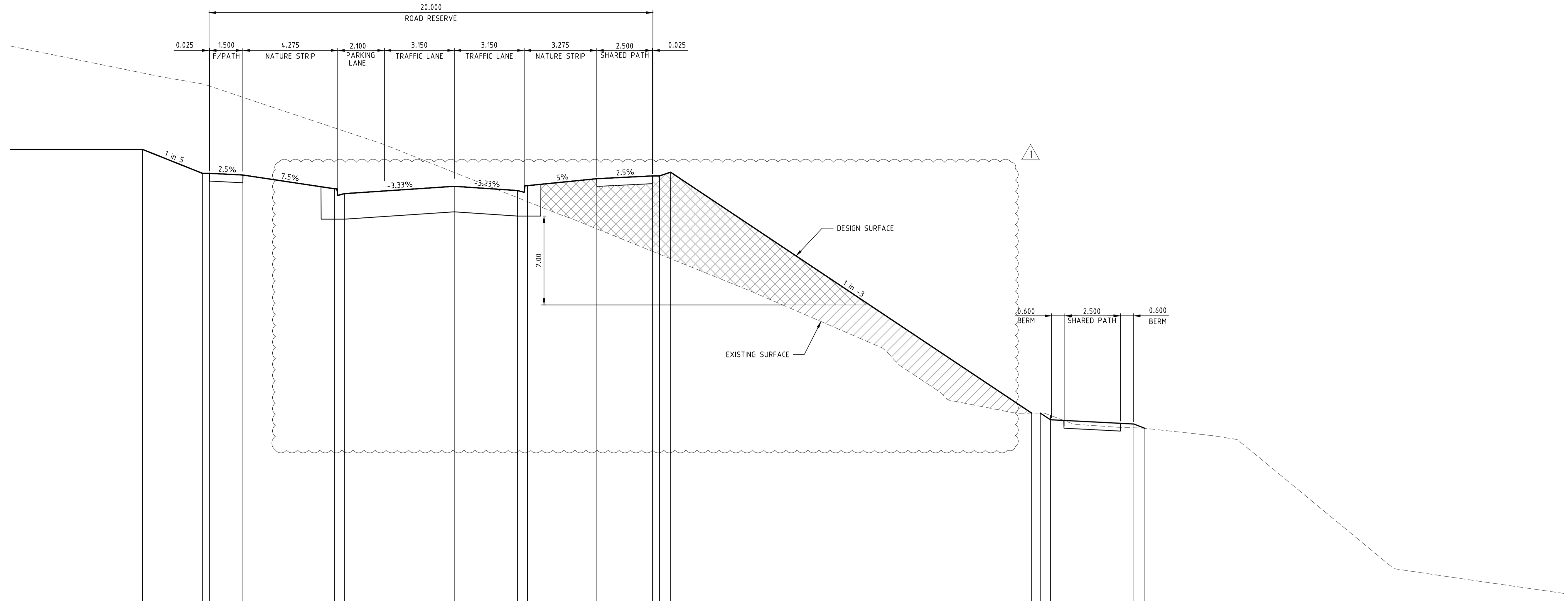
VICTORIA
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ABN 78 429 221 049



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ABN 78 429 221 049



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DESIGN SURFACE	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971
EXISTING SURFACE	15.63	15.384	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371	15.371
OFFSET	-16.050	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765	-11.765

CH 4.92.899
RIVERVALLEY BOULEVARD

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631492
Verified T.THAUVENDRAN
Date 05/07/17
AN 943805
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

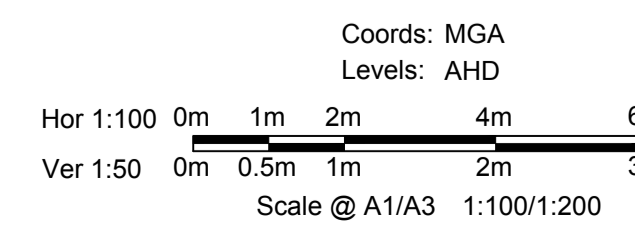
NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 05 OF 07
Drawing No. 12196XS05 Rev 1
Sheet No. 25 CONSTRUCTION



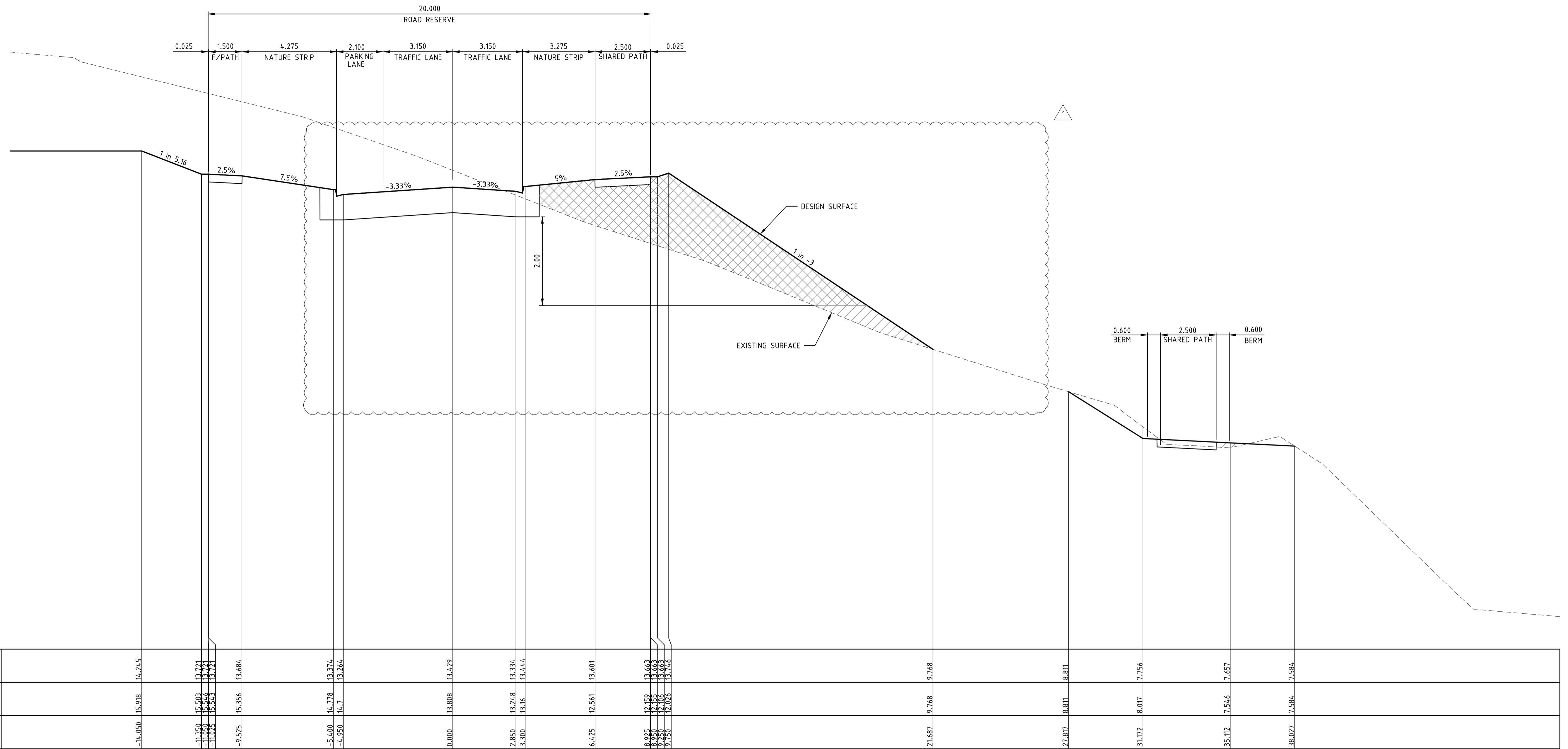
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QUEENSLAND
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Drawing File: C:\24_Sydney\1\2196-River Valley - Stage 7B_11\Road\RD\12196XS05.dwg
 Project Name: 12196-River Valley - Stage 7B_11\Road\RD\12196XS05
 Date/Time: Thu Jun 07, 2018 10:07am --jacob.burns--

Drawing File: C:\24_Sydney\1\2196-River Valley - Stage 7B_11\Model\DWG
 Project Name: RIVER VALLEY ESTATE - STAGE 7B
 Date/Time: Thu Jun 07, 2018 10:00am -- jacob.burns --



DATUM RL3.000		CH 506.893													
DESIGN SURFACE		14.245	13.721	13.684	13.264	13.429	13.334	13.444	13.601	13.663	9.768	8.811	7.756	7.657	7.584
EXISTING SURFACE		15.918	15.583	15.356	14.778	13.808	13.248	13.16	12.561	12.159	9.768	8.811	8.017	7.546	7.584
OFFSET		-16.050	-11.350	-9.525	-5.400	0.000	2.850	3.300	6.425	8.925	21.687	27.817	31.172	35.112	38.027

CH 506.893
RIVERVALLEY BOULEVARD

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.V2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631493
Verified T.THAVENDRAN
Date 05/07/17
AN 943806
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

RIVER VALLEY

Coords: MGA
Levels: AHD

Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 06 OF 07
Drawing No. 12196XS06 Rev 1
Sheet No. 26 CONSTRUCTION

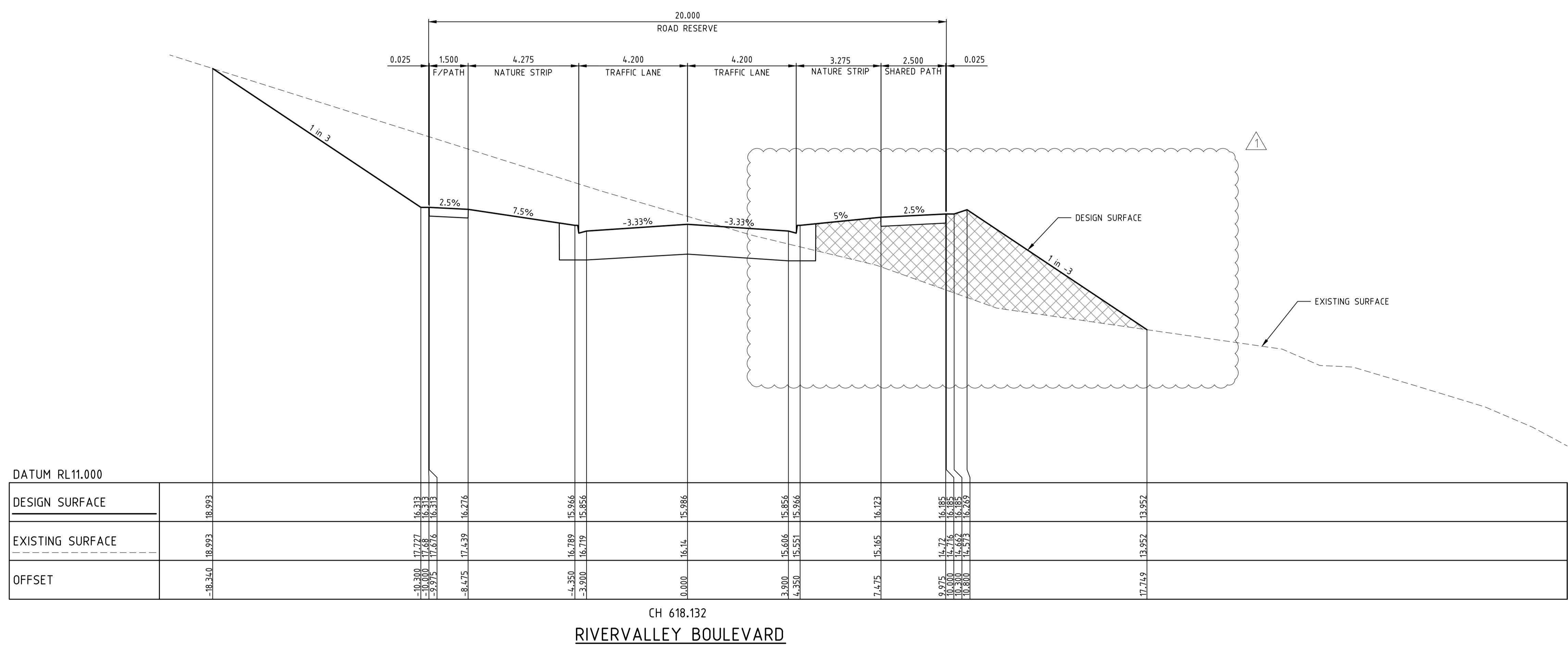
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Drawing File: C:\24_Sydney\1\12196-River Valley - Stage 7B-11\Road\10\1196XS07.dwg
 Date/Time: Thu Jun 07, 2018 - 10:07am -- jacob.burns--



NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631494
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943807
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

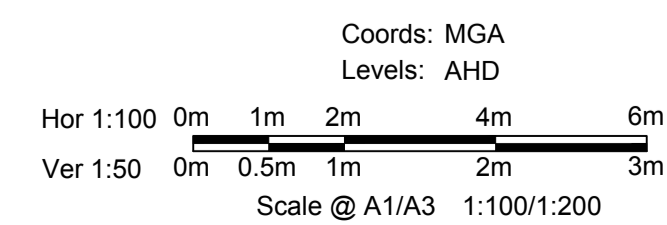
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



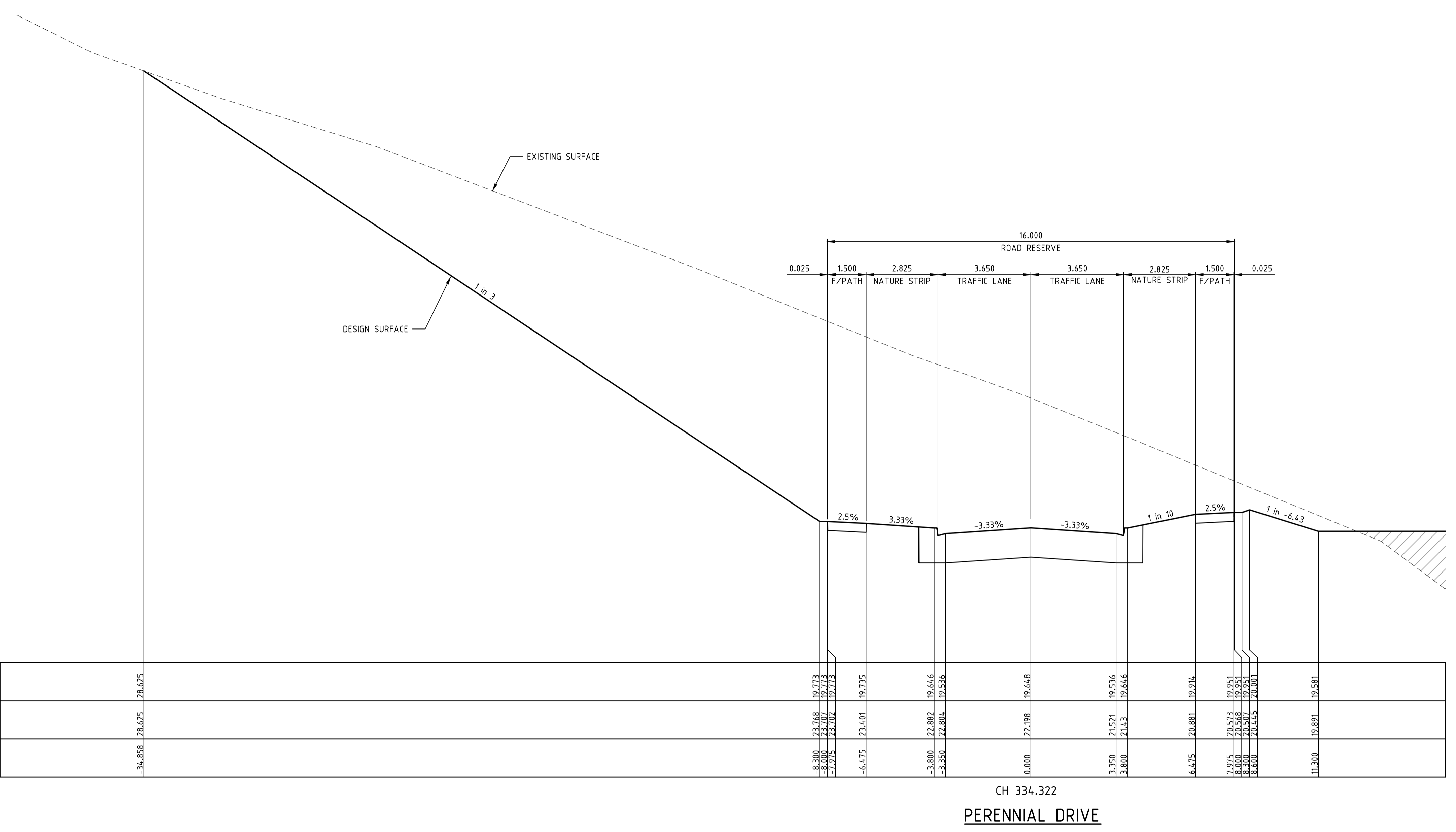
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 07 OF 07
Drawing No. 12196XS07 Rev 1
 Sheet No. 27 **CONSTRUCTION**
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\2196-River Valley - Stage 7B_11\Draw\10\1
 Project Name: RIVER VALLEY ESTATE - STAGE 7B
 Date/Time: Thu Jun 07, 2018 10:07am -- jacob.burns



DATUM RL17.000	
DESIGN SURFACE	28.625
EXISTING SURFACE	28.625
OFFSET	-34.858

19.773	19.773	19.735	19.646	19.648	19.646	19.914	19.851	19.581
23.069	23.069	23.401	22.882	22.098	21.521	20.881	20.523	19.891
23.709	23.709	23.709	22.806	22.806	21.453	20.857	20.457	19.851
-19.975	-19.975	-6.475	-3.800	0.000	3.350	6.475	8.000	11.300

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631495
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943808
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

	DENOTES STRUCTURAL FILL (TYPE 2)
	TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

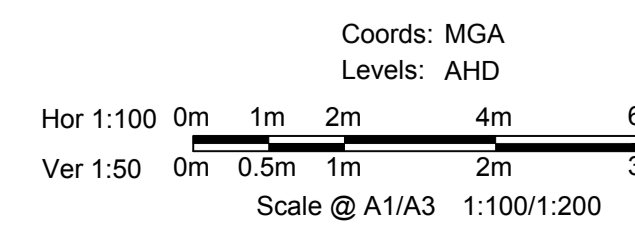
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -4.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



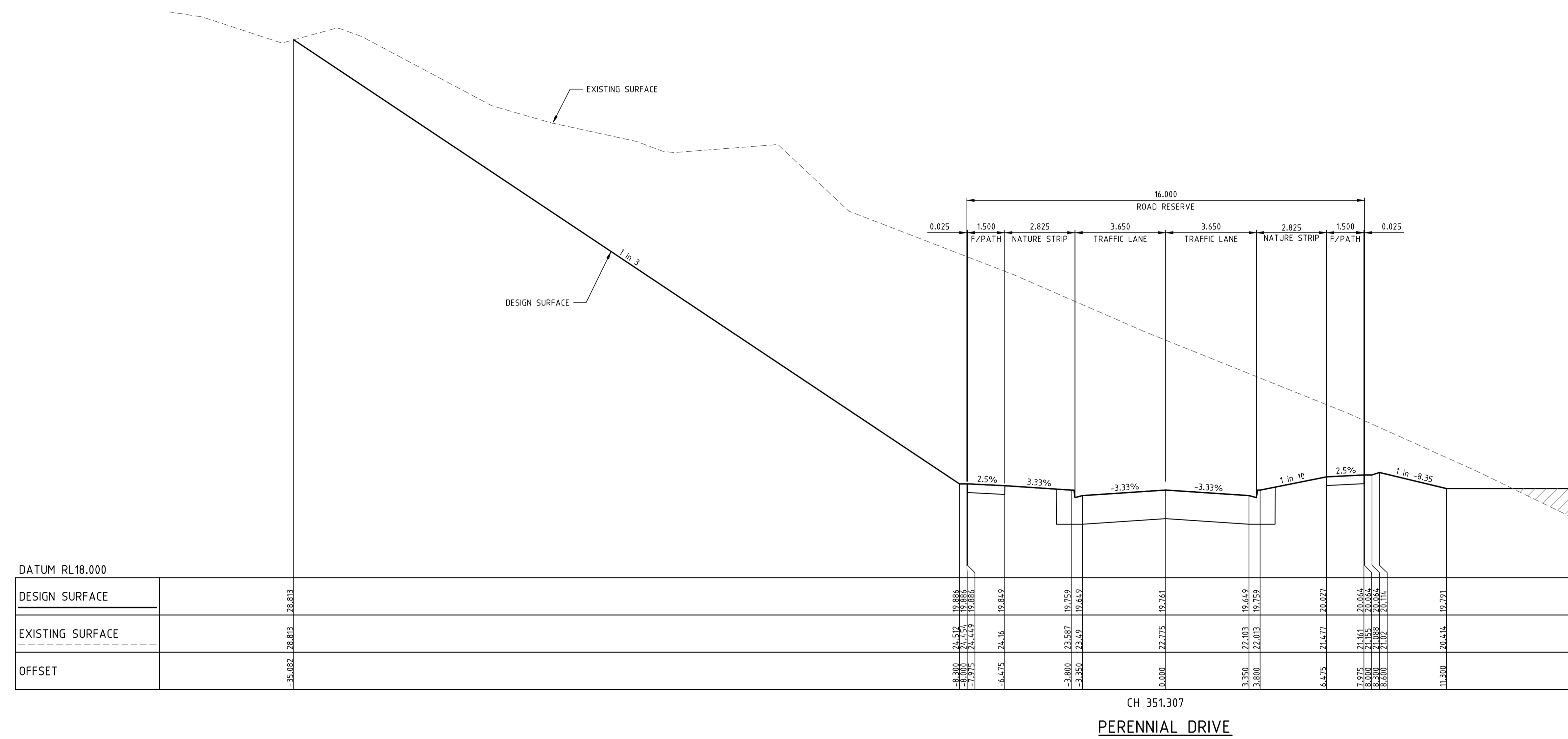
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
SHEET 01 OF 05
 Drawing No. **12196XS08** Rev 1
 Sheet No. 28 **CONSTRUCTION**
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Project File: C:\24_Sydney\1\2196-River Valley - Stage 7B_11\Head\10\1196XS09-2018.dwg
 Date/Time: Thu Jun 07, 2018 10:07am -- jacob.burns--



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631496
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943809
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

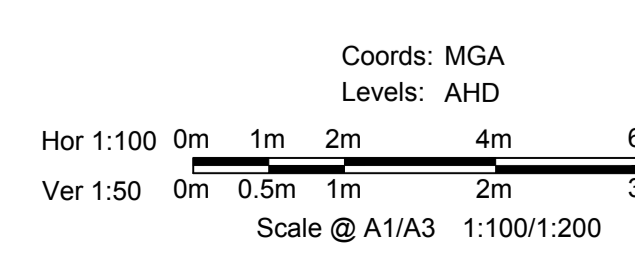
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
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NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



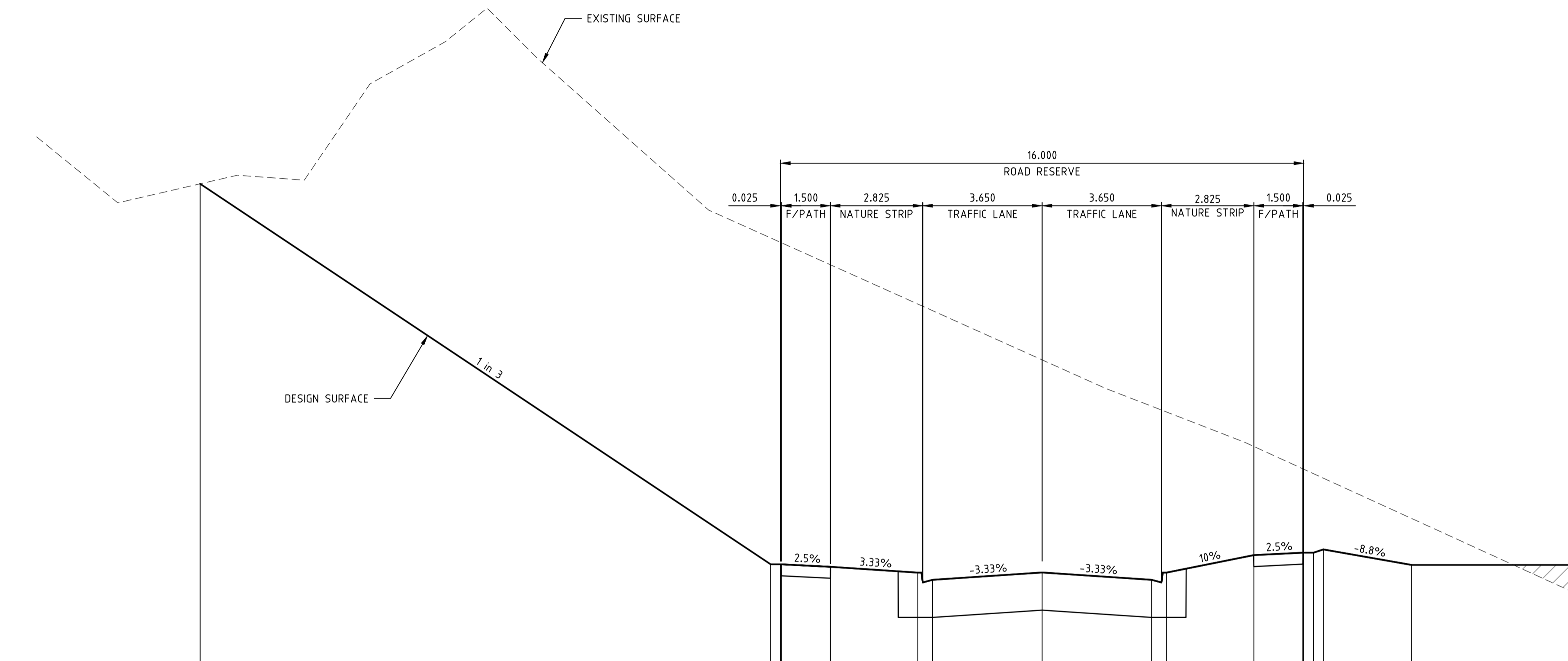
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
SHEET 02 OF 05
Drawing No. 12196XS09 Rev 1
 Sheet No. 29 **CONSTRUCTION**
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 ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12196-River Valley - Stage 7B - 11\Road\RD\12196XS10.dwg
 Date/Time: Thu Jun 07, 2018 10:07am -- jacob.burns--



DATUM RL18.000	
DESIGN SURFACE	-25.7149 25.8836
EXISTING SURFACE	8.300 25.008 20.118 -8.700 25.994 20.118 -7.975 25.935 20.019
OFFSET	-6.475 24.599 19.982 -3.800 23.998 19.893 -3.350 23.897 19.783 0.000 23.115 19.894 3.350 22.436 19.783 3.800 22.349 19.893 6.475 21.821 20.16 7.975 21.479 20.068 8.700 21.473 20.168 8.300 21.405 20.098 8.600 21.337 20.248

CH 371.266
PERENNIAL DRIVE

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APPD.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631497
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943810
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

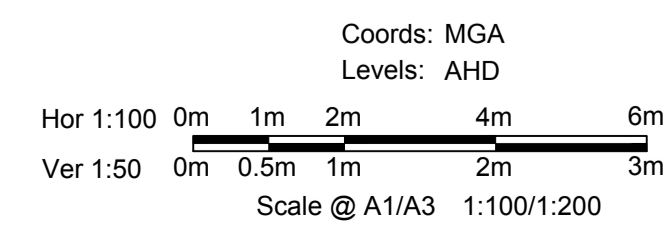
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D. AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

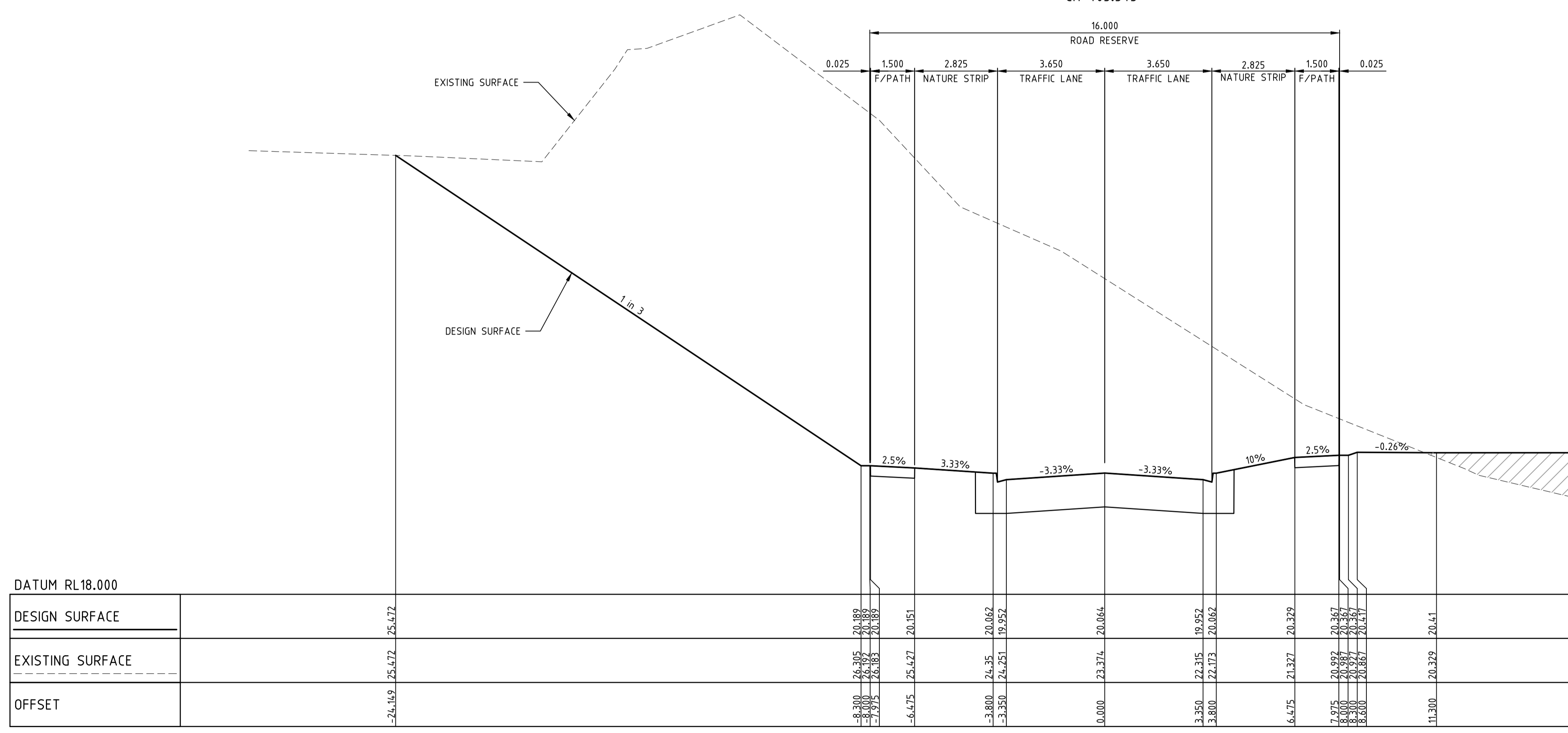
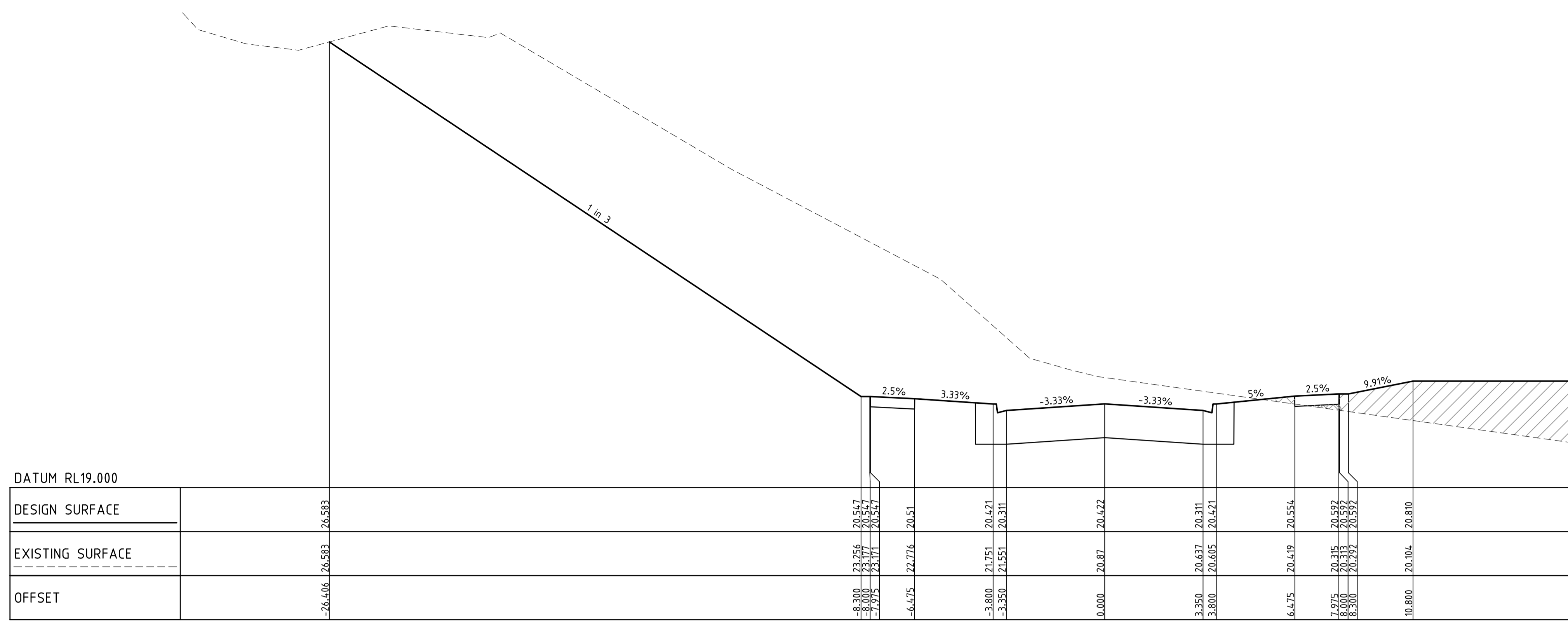


ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
 SHEET 03 OF 05
 Drawing No. 12196XS10 Rev 1
 Sheet No. 30 CONSTRUCTION
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 T 61 3 9813 7400
 W dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631498
Verified T.THAVENDRAN
Date 05/07/17
AN 943811
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

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NOTE:
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RIVER VALLEY

Coords: MGA
Levels: AHD

Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

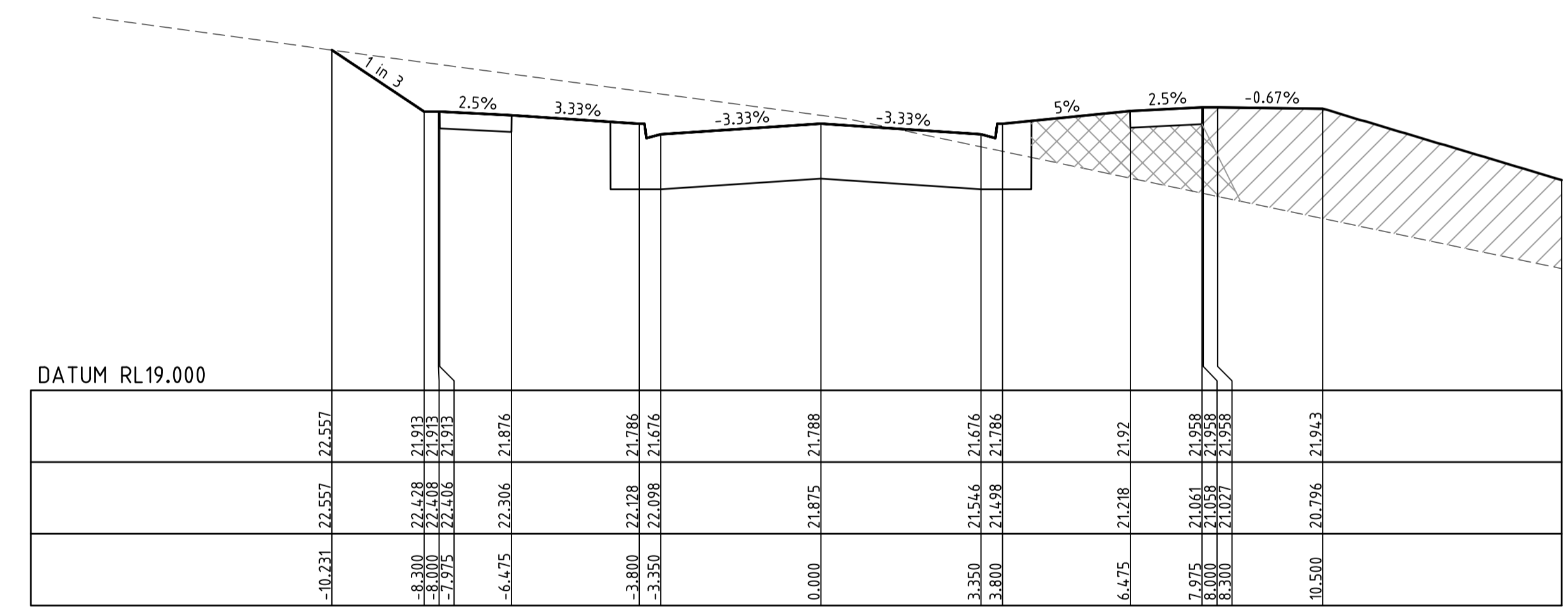
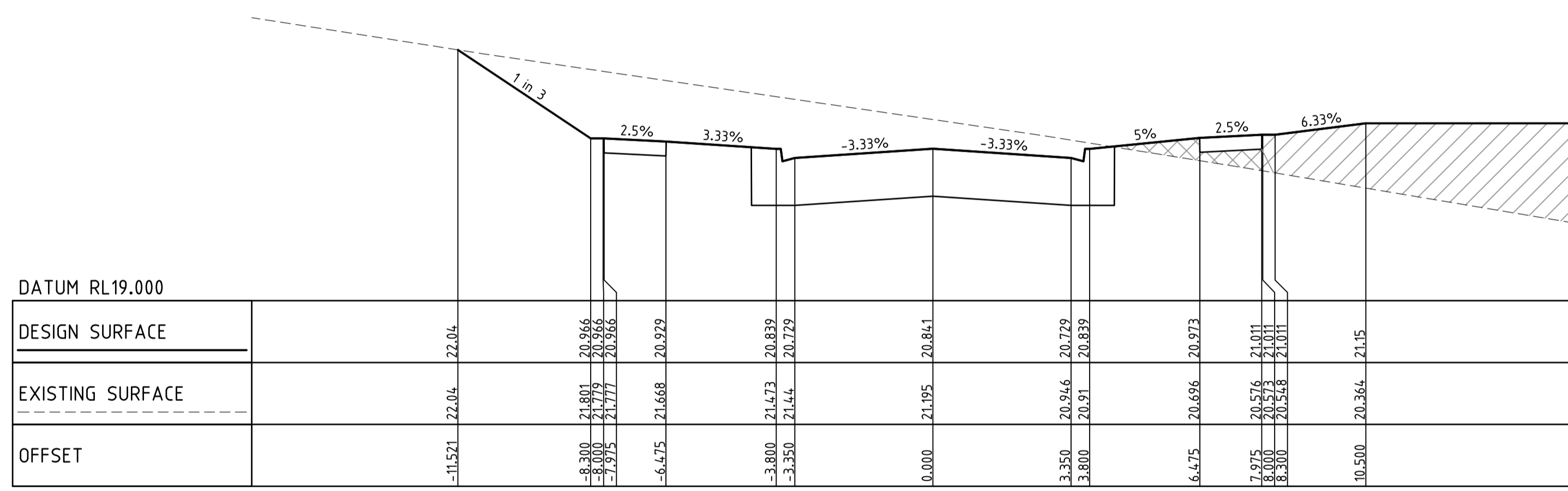
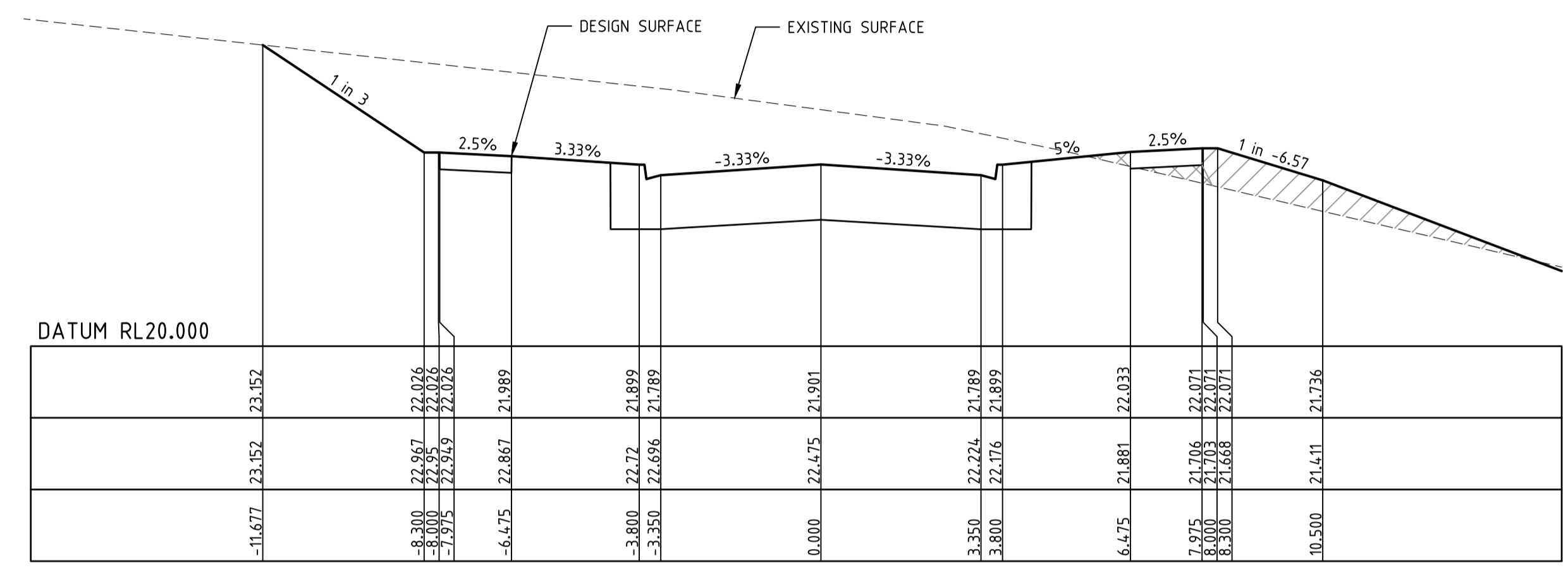
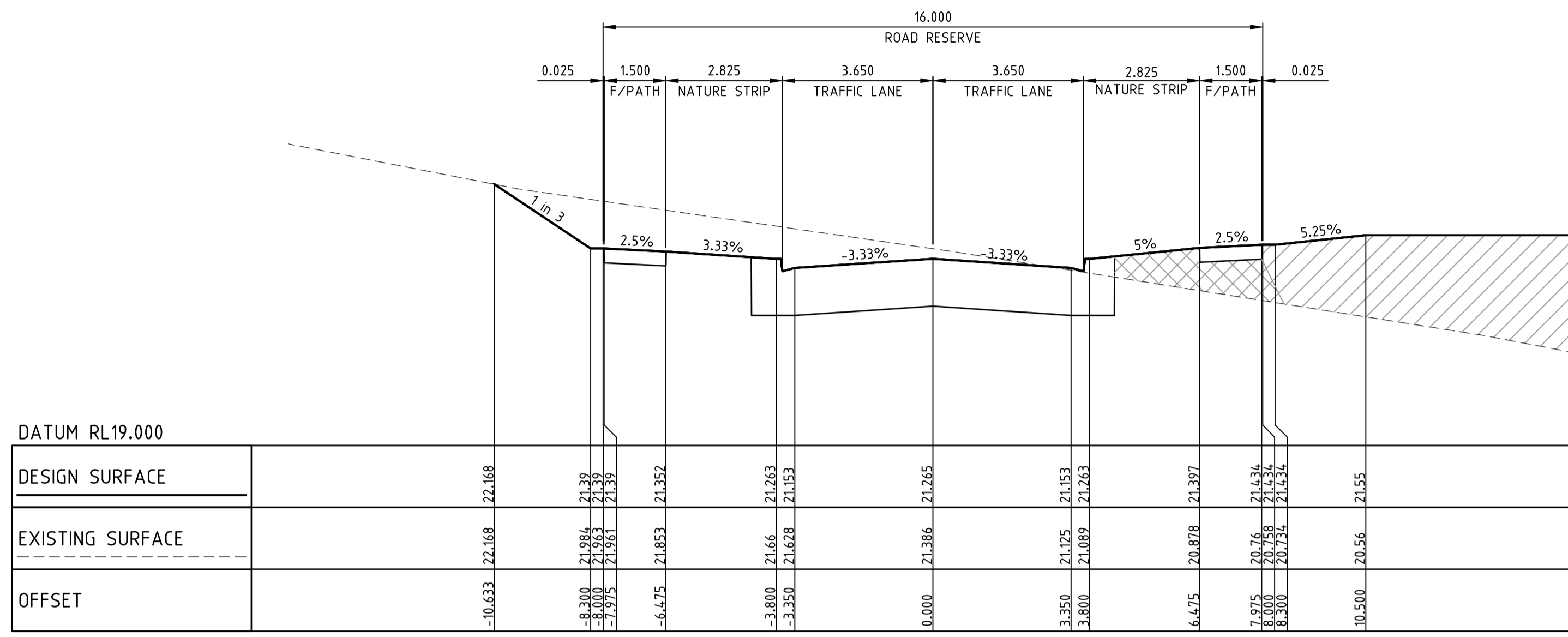
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
PERENNIAL DRIVE CROSS SECTIONS
SHEET 04 OF 05
Drawing No. 121960XS11 Rev 1
Sheet No. 31 CONSTRUCTION
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ABN 78 429 221 049

NOT TO BE USED FOR CONSTRUCTION

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Project File: C:\24 Sydney\1\12196-River Valley - Stage 7B_11\Model\10\10100000.dwg
 Date/Time: Thu Jun 07, 2018 10:00am --jacob.burns--



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL < 1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
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NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

NOT TO BE USED FOR CONSTRUCTION

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631499
Verified T.THAUENDRAN
Date 05/07/17
AN 943812
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
PERENNIAL DRIVE CROSS SECTIONS
SHEET 05 OF 05
Drawing No. 12196XS12 Rev 1

Coords: MGA
Levels: AHD

Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

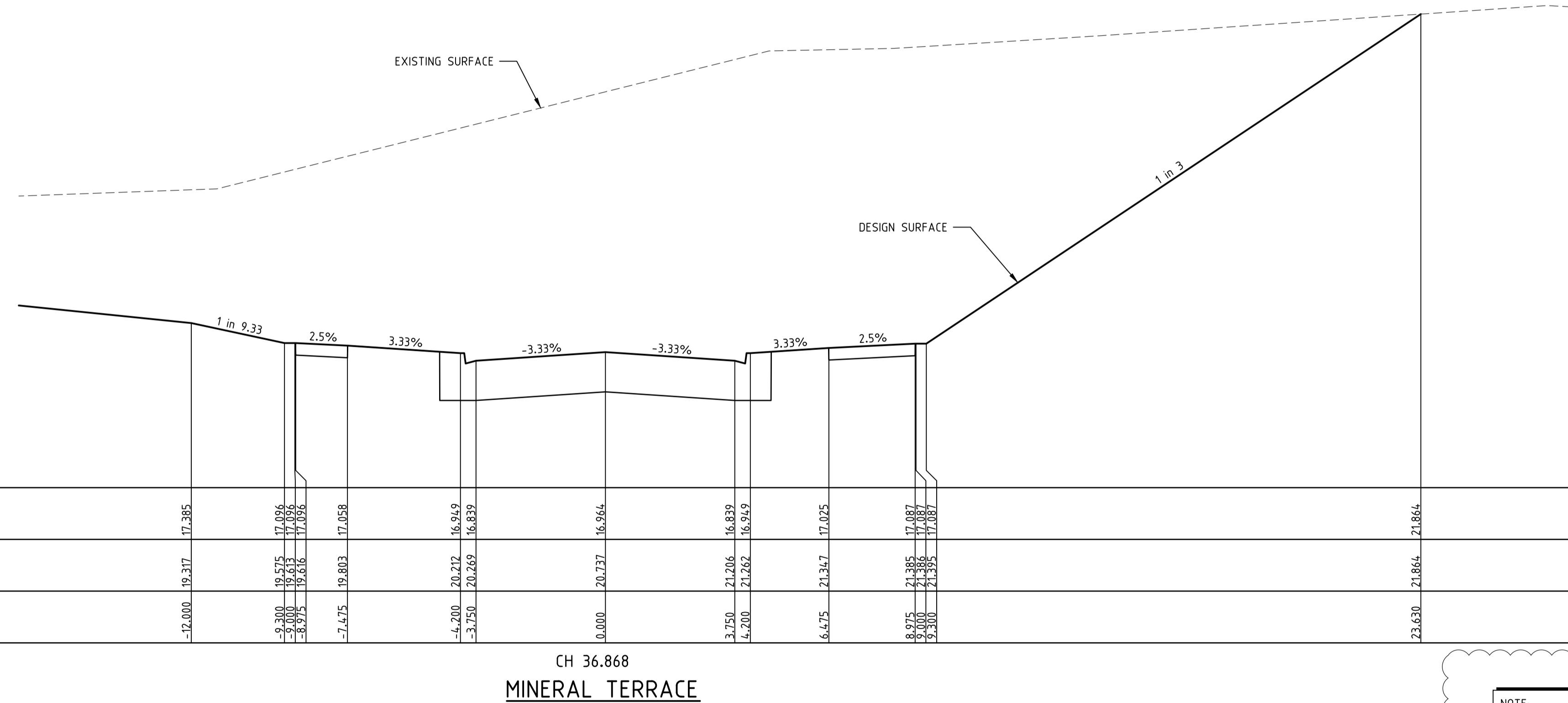
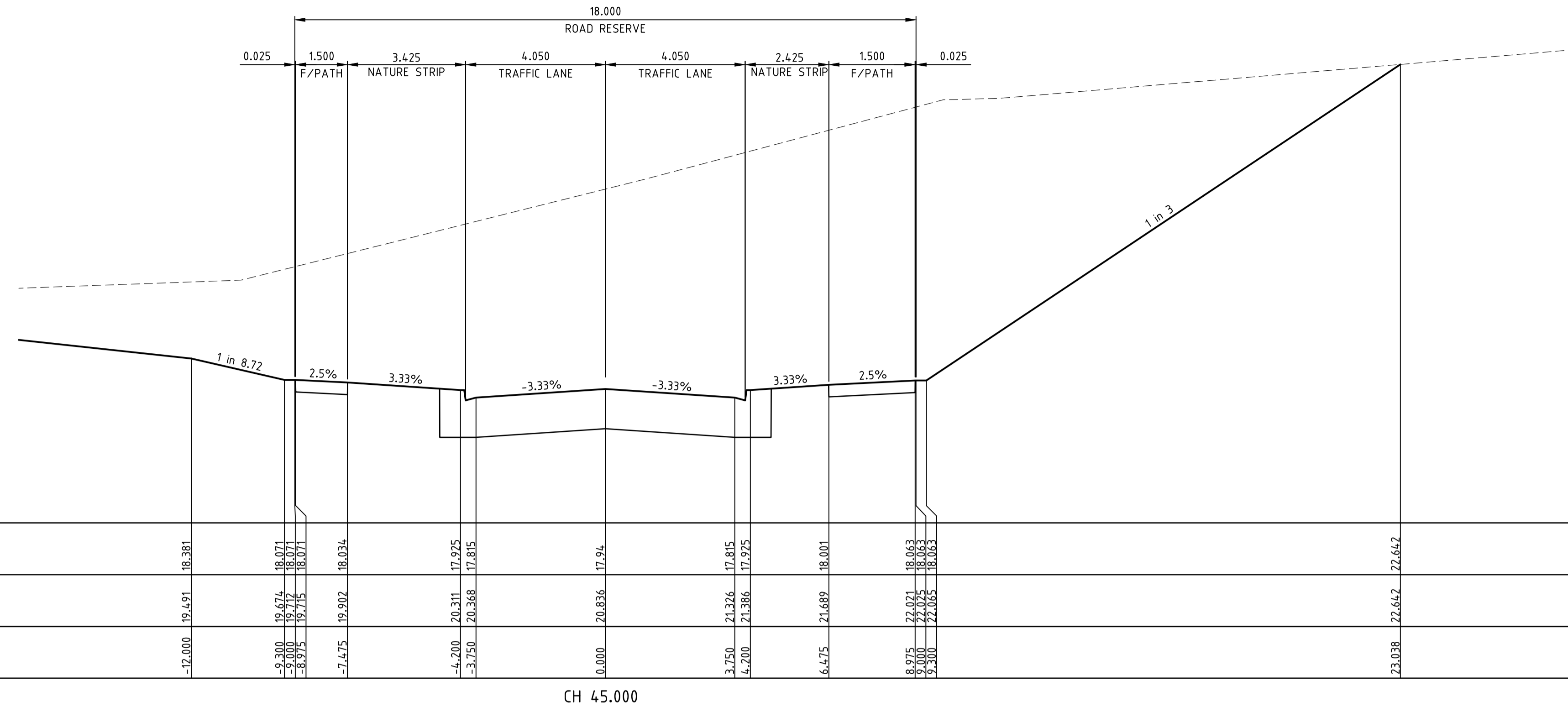
Sheet No. 32 **CONSTRUCTION**
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Drawing File: C:\24_Sydney\1\12196-River Valley - Stage 7B_11\Road\10\12196XS12.dwg
 User: jacob.burns
 Date/Time: Thu Jun 07, 2018 10:00am --jacob.burns--



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

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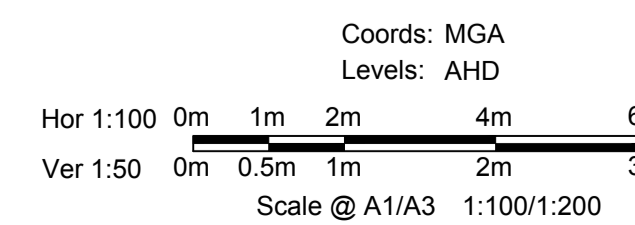
NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631500
Verified T.THAVENDRAN
Date 05/07/17
AN 943813
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
MINERAL TERRACE CROSS SECTIONS
SHEET 01 OF 02
Drawing No. 12196XS13 Rev 1
Sheet No. 33 CONSTRUCTION
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ABN 78 429 221 049

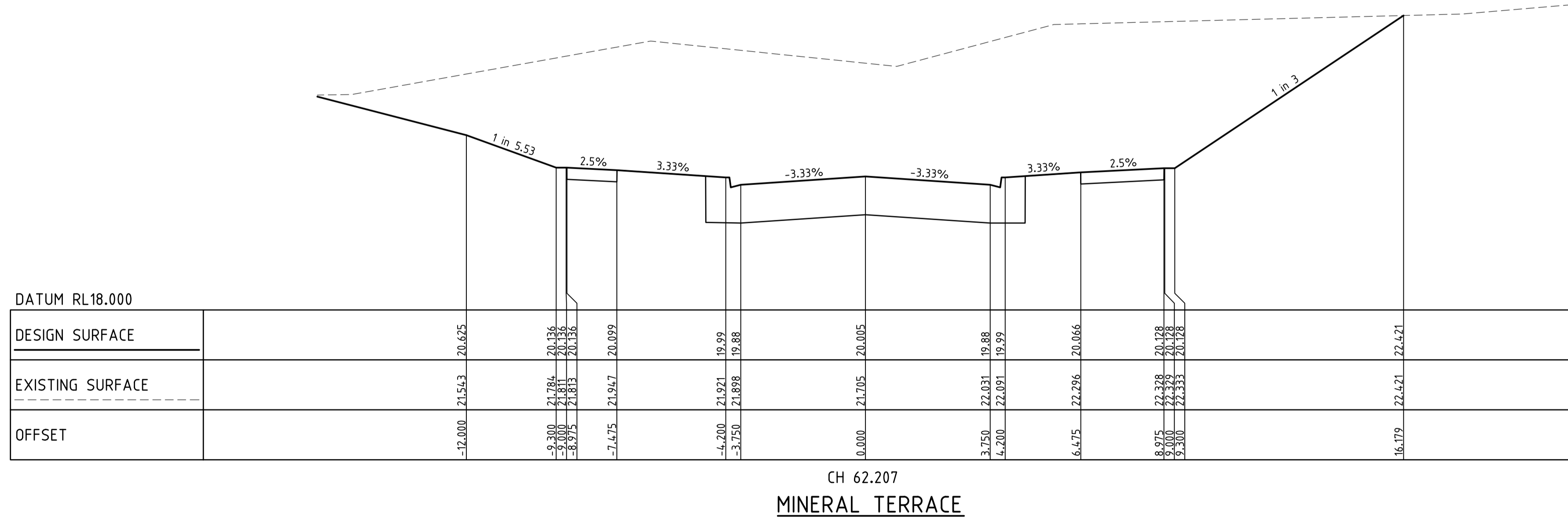
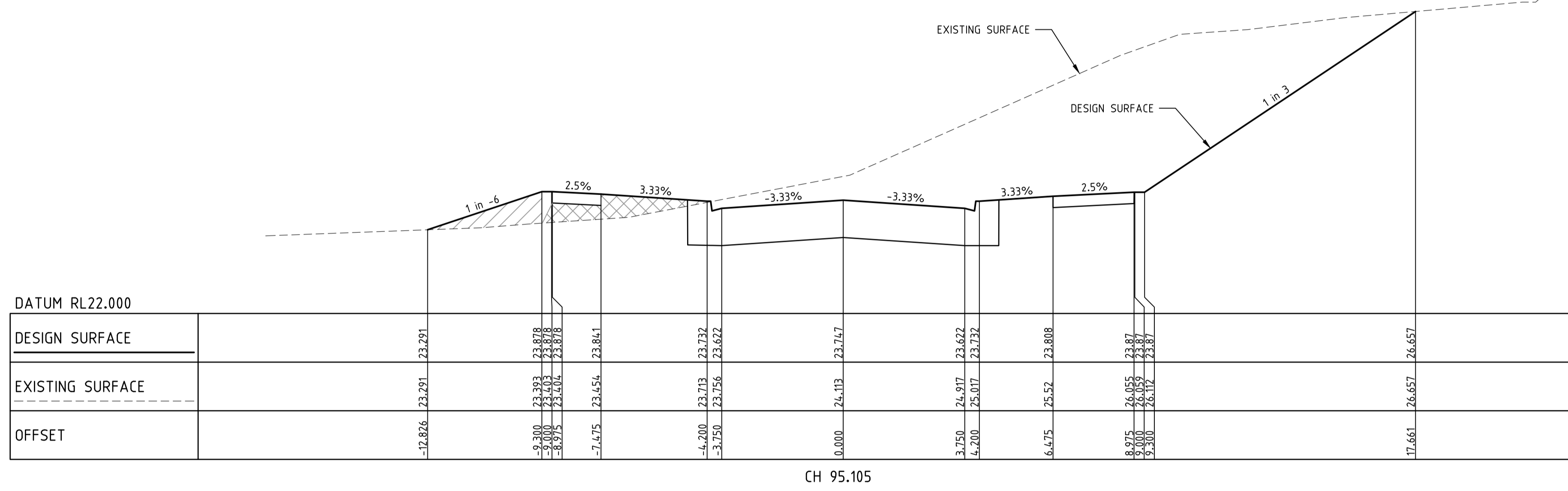
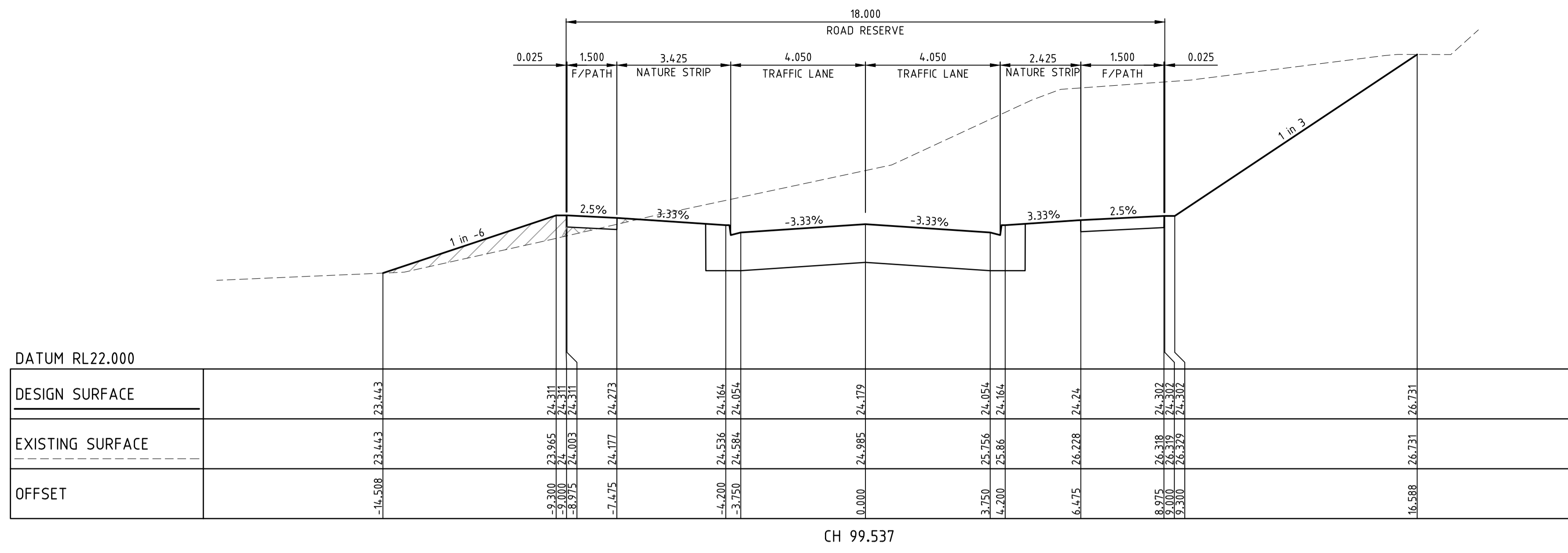


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Drawing File: C:\24_Sydney\12196-River Valley - Stage 7B_11\Road\RD\12196XS13.dwg
 Date/Time: Thu Jun 07, 2018 10:07am --jacob.burns--

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

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 Date/Time: Thu Jun 07, 2018 10:07am --jacob.burns--

NOT TO BE USED FOR CONSTRUCTION			
1	EARTHWORKS DETAIL REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631501
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943814
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

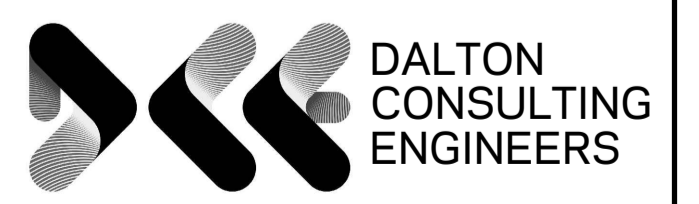
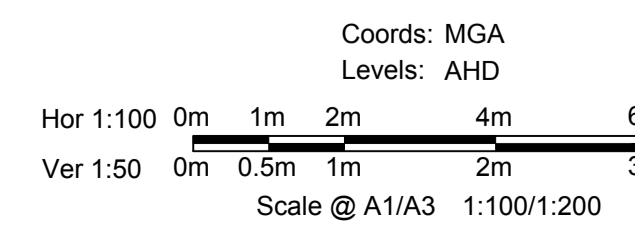
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 MINERAL TERRACE CROSS SECTIONS
SHEET 02 OF 02
 Drawing No. 12196XS14 Rev 1
 Sheet No. 34 CONSTRUCTION
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 ABN 78 429 221 049

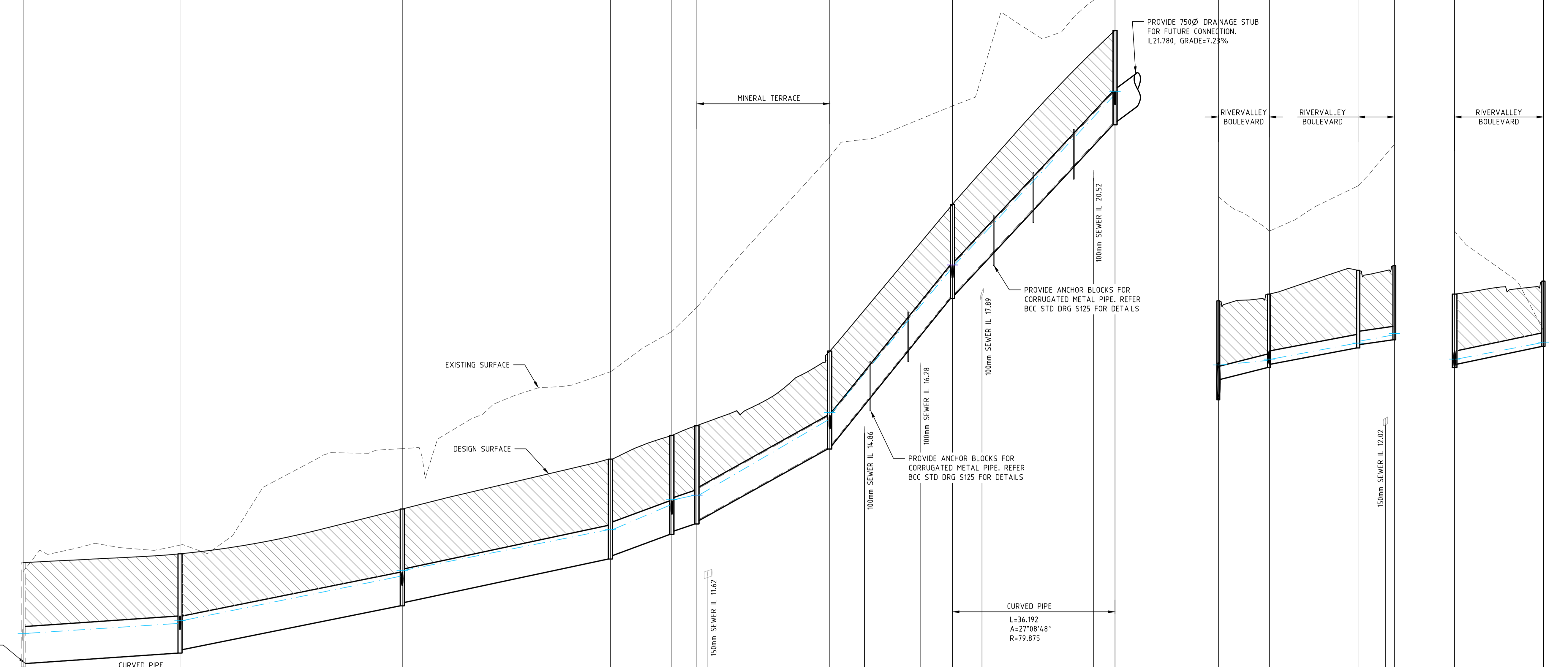


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ABN 78 429 221 049

Drawing File: C:\Users\jacob.burns\OneDrive - Atlantic Link Pty Ltd\Documents\12196-River Valley - Stage 7B_11\Mod\10\100000.dwg
 Date/Time: Thu Jun 07, 2018 - 10:08am -- jacob.burns

EX10 11 12 13 14 15 16 17 18 14 86 87 88 86 89



VELOCITY (m/s)	2.725	4.212	4.279	5.195	4.779	3.182	4.370	4.128	2.006	1.470	1.303	1.318
PIPE GRADE VELOCITY	2.421	3.936	4.050	5.202	4.720	2.817	4.205	3.929	2.418	2.131	1.798	2.227
PIPE GRADE %	0.667%	1.975%	2.090%	3.444%	2.836%	5.386%	12.000%	10.479%	2.356%	1.832%	1.308%	2.000%
PIPE FLOW (m³/s)	1.199	1.181	1.142	1.144	1.100	1.107	1.089	1.066	0.042	0.019	0.018	0.012
PIPE CAPACITY AT GRADE	1.294	1.739	1.789	2.298	2.085	1.245	1.858	1.736	0.171	0.151	0.127	0.157
PIPE SIZE (mm)	825	750	750	750	750	750	750	750	300	300	300	300

DATUM	7.000					6.000			12.000				4.000				4.000
DEPTH TO INVERT		2.372											2.247				2.105
HYDRAULIC GRADE LINE	10.318	10.375											10.375				10.338
INVERT LEVEL	9.679	9.704											9.704				9.705
DESIGN SURFACE LEVEL		11.951											11.951				11.951
EXISTING SURFACE LEVEL		11.757											11.757				11.757
CHAINAGE	208.073	34.898				46.336							242.970				252.411

0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631502
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943815
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND
 DENOTES CLASS 2 CRUSHED ROCK BACKFILL

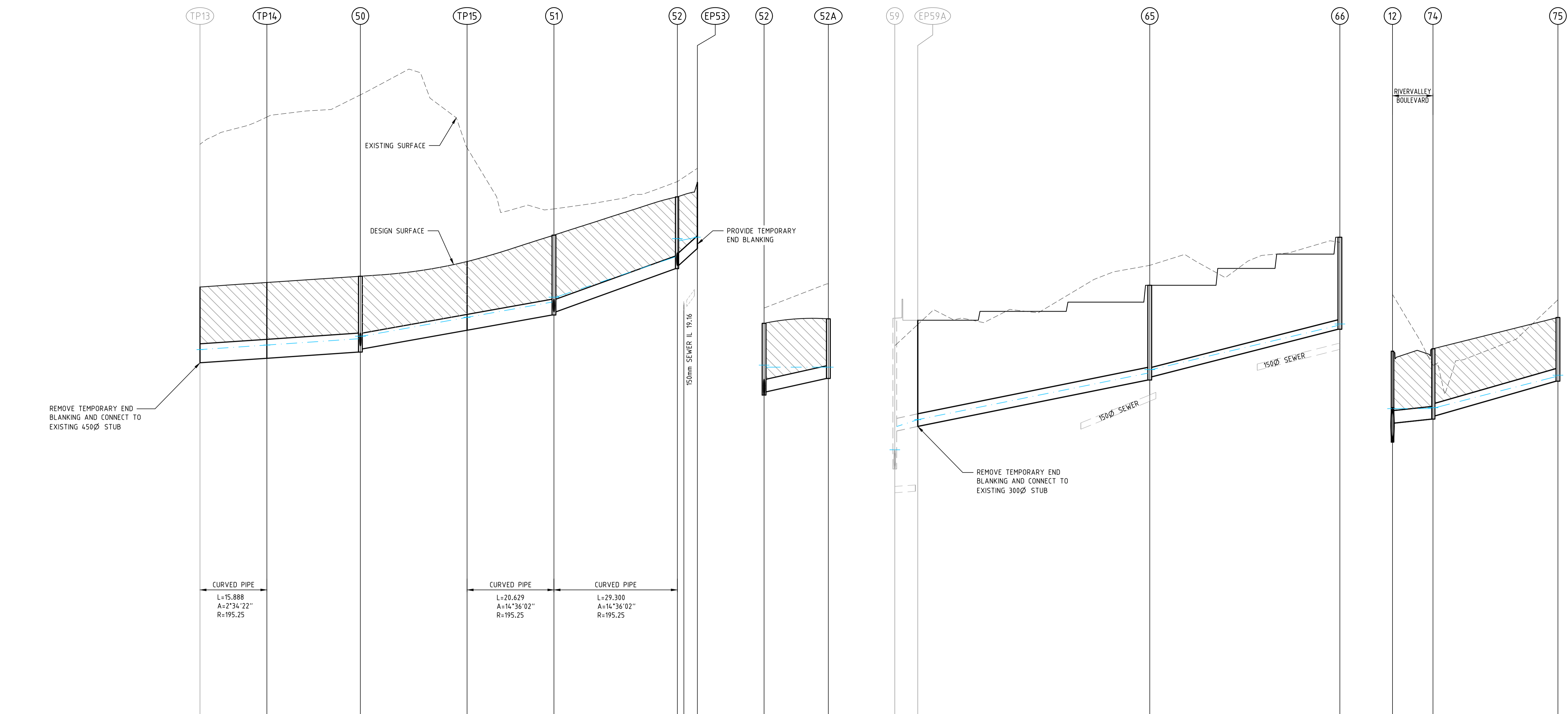
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 Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 DRAINAGE LONGITUDINAL SECTIONS
 SHEET 01 OF 03
 Drawing No. 12196DR01 Rev 0
 Sheet No. 35 CONSTRUCTION
 © Dalton Consulting Engineers Pty Ltd
 RIVER VALLEY

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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\12\12196-river valley - Stage 7B_11\Drawn\100\1000000.dwg
 Project Name: River Valley - Stage 7B - Drainage
 Date/Time: Thu Jun 07, 2018 - 10:08am --jacob.burns--



VELOCITY (m/s)	1.812	1.815	2.553	2.556	3.180	4.310	0.920	1.912	1.924	1.498	1.308	1.760
PIPE GRADE VELOCITY	1.656	1.656	2.399	2.399	2.950	4.606	2.279	2.227	2.227	2.073	1.570	2.628
PIPE GRADE %	0.667%	0.667%	1.750%	1.750%	3.500%	8.500%	2.094%	2.000%	2.000%	2.500%	1.000%	2.780%
PIPE FLOW (m ³ /s)	0.199	0.201	0.174	0.175	0.146	0.125	0.003	0.044	0.045	0.012	0.027	0.021
PIPE CAPACITY AT GRADE	0.263	0.263	0.265	0.265	0.209	0.326	0.161	0.157	0.157	0.082	0.111	0.186
PIPE SIZE (mm)	450	450	375	375	300	300	300	300	300	225	300	300
DATUM	7.000											
DEPTH TO INVERT	17.872	17.872	18.442	18.442	18.644	18.644	19.005	19.312	19.312	19.428	19.428	20.386
HYDRAULIC GRADE LINE (Q5)	18.185	17.872	18.292	18.292	18.502	18.502	19.312	19.428	19.428	19.428	20.386	20.386
INVERT LEVEL	17.872	17.872	17.978	17.978	18.201	18.201	19.005	19.080	19.080	19.080	20.386	20.386
DESIGN SURFACE LEVEL	19.668	19.668	19.777	19.777	20.273	20.273	20.900	20.900	20.900	20.900	21.808	21.808
EXISTING SURFACE LEVEL	23.056	23.056	23.702	23.702	24.228	24.228	24.925	24.925	24.925	24.925	25.584	25.584
CHAINAGE	326.694	15.888	342.583	22.194	364.776	24.228	390.109	22.972	410.739	21.523	440.839	22.170

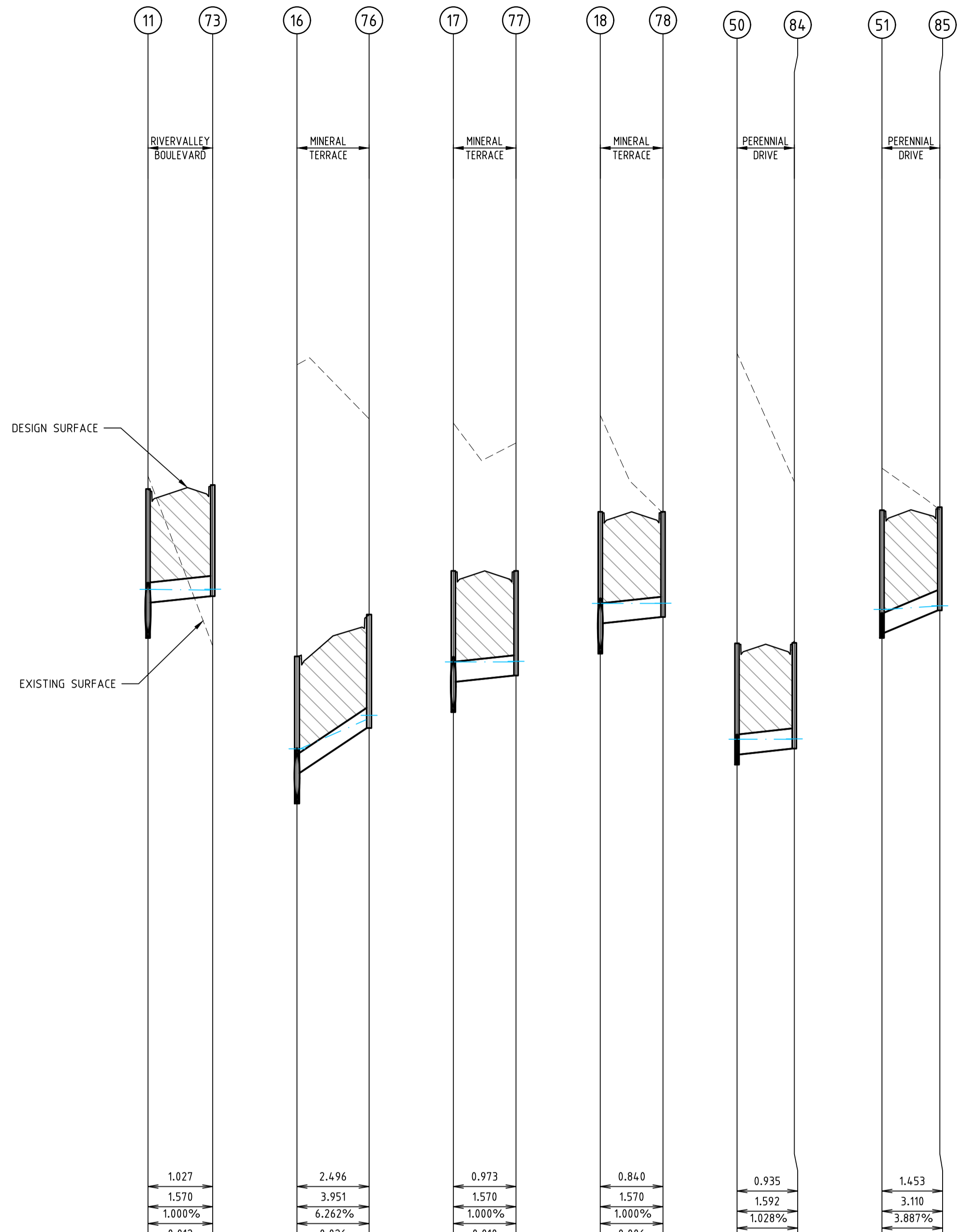
0	CONSTRUCTION ISSUE	01/02/18	TL
	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631503
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943816
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND
 DENOTES CLASS 2 CRUSHED ROCK BACKFILL

RIVER VALLEY
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
DRAINAGE LONGITUDINAL SECTIONS
SHEET 02 OF 03
Drawing No. 12050DR02 Rev 0
 Sheet No. 36 CONSTRUCTION
 Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000
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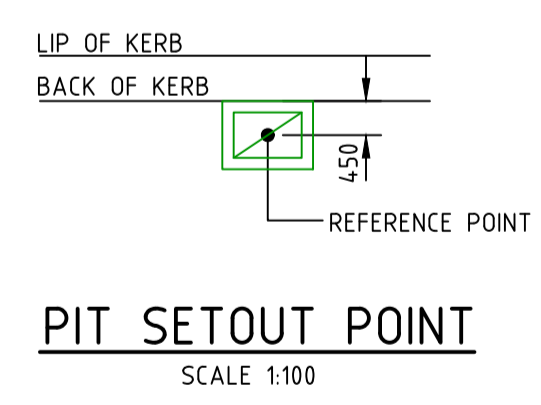
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VELOCITY (m/s)
 PIPE GRADE VELOCITY
 PIPE GRADE %
 PIPE FLOW (m³/s)
 PIPE CAPACITY AT GRADE
 PIPE SIZE (mm)

DATUM	0.000	9.600	10.691	17.285	15.790	9.300	23.810	10.000	18.508	9.000	15.483
DEPTH TO INVERT	0.000	2.211	1.686	2.182	1.732	1.649	1.655	1.799	1.820	1.895	1.531
HYDRAULIC GRADE LINE (Q5)	10.598	10.659	10.648	15.125	15.294	15.724	22.451	22.451	19.428	19.428	19.477
INVERT LEVEL	9.937	10.442	10.558	14.482	14.932	15.602	21.705	22.338	18.276	18.501	19.414
DESIGN SURFACE LEVEL	12.148	12.148	12.207	16.464	16.664	17.285	23.810	23.810	19.925	20.900	20.945
EXISTING SURFACE LEVEL	12.342	12.342	12.207	20.590	20.590	20.889	25.241	25.241	24.228	24.581	24.581
CHAINAGE	0.000	9.600	10.691	17.285	18.591	19.933	23.810	33.810	38.500	47.500	56.500

PIT SCHEDULE												
PIT NAME	TYPE	EASTING	NORTHING	INTERNAL WD	INTERNAL LEN	INTERNAL DIA	INLET INV LEV	OUTLET DIA	OUTLET INV LEV	PIT SETOUT RL	DEPTH	REMARKS
EX10	SEP	310412.955	5818989.280	T600 B1200	T900 B900	825 375	9.704 10.154	900	9.629	11.951	2.322	REMOVE TEMPORARY PIPE BLANKING AND CONNECT TO EXISTING
11	SEP	310416.453	5819023.995	T600 B1200	T900 B900	750 300	10.012 10.462	825	9.937	12.148	2.211	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
12	SEP	310419.354	5819073.406	T600 B1050	T900 B900	750 300	11.064 11.439	750	10.989	13.146	2.157	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
13	SEP	310421.921	5819119.671	T600 B1050	T900 B900	750	12.108	750	12.033	14.256	2.224	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
14	JP	310419.725	5819133.209	T600 B1050	T900 B900	750 300	12.655 13.030	750	12.580	14.784	2.205	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
15	JP	310417.078	5819138.109	T600 B1050	T900 B900	750	12.888	750	12.813	15.003	2.191	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
16	SEP	310394.767	5819157.561	T600 B1050	T900 B2400	750 300	14.557 14.932	750	14.482	16.664	2.182	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS
17	SEP	310367.480	5819159.160	T600 B1050	T900 B900	750 300	17.912 18.287	750	17.837	19.933	2.095	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
18	SEP	310332.041	5819153.526	T600 B1050	T900 B900	750 300	21.780 22.155	750	21.705	23.810	2.105	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
TP13	TP	310344.395	5819005.152			450	17.872	450	17.872	19.668	1.797	REMOVE TEMPORARY PIPE BLANKING AND CONNECT TO EXISTING
TP14	TP	310346.804	5819020.853			450	17.978	450	17.978	19.777	1.799	TANGENT POINT
50	SEP	310349.273	5819042.909	600	900	375	18.201	450	18.126	19.925	1.799	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
TP15	TP	310352.091	5819068.085			375	18.644	375	18.644	20.273	1.629	TANGENT POINT
51	SEP	310353.296	5819088.669	600	900	300	19.080	375	19.005	20.900	1.895	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
52	JP	310351.260	5819117.871	600	900	300	20.181	300	20.106	21.808	1.703	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
52A	SEP	310349.135	5819132.980	600	900			300	20.500	21.914	1.414	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
EP53	EP	310346.557	5819117.209			300	20.584	300	20.584	22.153	1.569	END POINT
EP59A	EP	310380.356	5819000.948			300	14.361	300	14.361	16.881	2.520	REMOVE TEMPORARY PIPE BLANKING AND CONNECT TO EXISTING
65	JP	310387.047	5819055.624	600	900	225	15.538	300	15.463	17.710	2.247	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
66	JP	310389.907	5819100.678	600	900			225	16.667	18.850	2.183	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
73	SEP	310426.033	5819023.369	600	900			300	10.558	12.207	1.649	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
74	SEP	310428.943	5819072.844	600	900	300	11.610	300	11.535	13.204	1.669	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
75	SEP	310430.679	5819102.459	600	900			300	12.435	13.946	1.511	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
76	SEP	310388.960	5819148.585	600	900			300	15.602	17.285	1.684	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
77	SEP	310366.936	5819149.875	600	900			300	18.380	19.933	1.552	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
78	SEP	310335.531	5819144.903	600	900			300	22.248	23.810	1.562	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
84	SEP	310357.720	5819041.963	600	900			300	18.363	19.932	1.569	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
85	SEP	310361.799	5819089.825	600	900			300	19.414	20.945	1.531	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
86	SEP	310428.172	5819140.798	600	900	300	13.372	300	13.297	14.934	1.636	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
87	JP	310424.813	5819160.267	600	900	300	13.809	300	13.734	15.463	1.728	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
88	SEP	310417.559	5819163.850	600	900			300	13.915	15.569	1.654	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
89	SEP	310445.720	5819149.951	600	900			300	13.768	15.223	1.455	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255



NOTES :

- ALL SETOUT POINTS QUOTED TO CENTRE OF PIT.
- STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 900mm IN DEPTH
- PIT FLOOR TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROPS LESS THAN 50mm
- ALL PIPES TO BE CLASS '2' R.C. UNLESS NOTED OTHERWISE.
- ALL DRAINAGE WORKS ARE TO BE CONSTRUCTED TO BRIMBANK CITY COUNCIL SPECIFICATIONS.

Drawing File: C:\Users\jacob.burns\OneDrive\Documents\Projects\12196-River Valley - Stage 7B_11\Drawings\12196-Longitudinal Sections\12196-Longitudinal Sections.dwg
 Date/Time: Thu Jun 07, 2018 - 10:08am -- jacob.burns--

0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APPD.

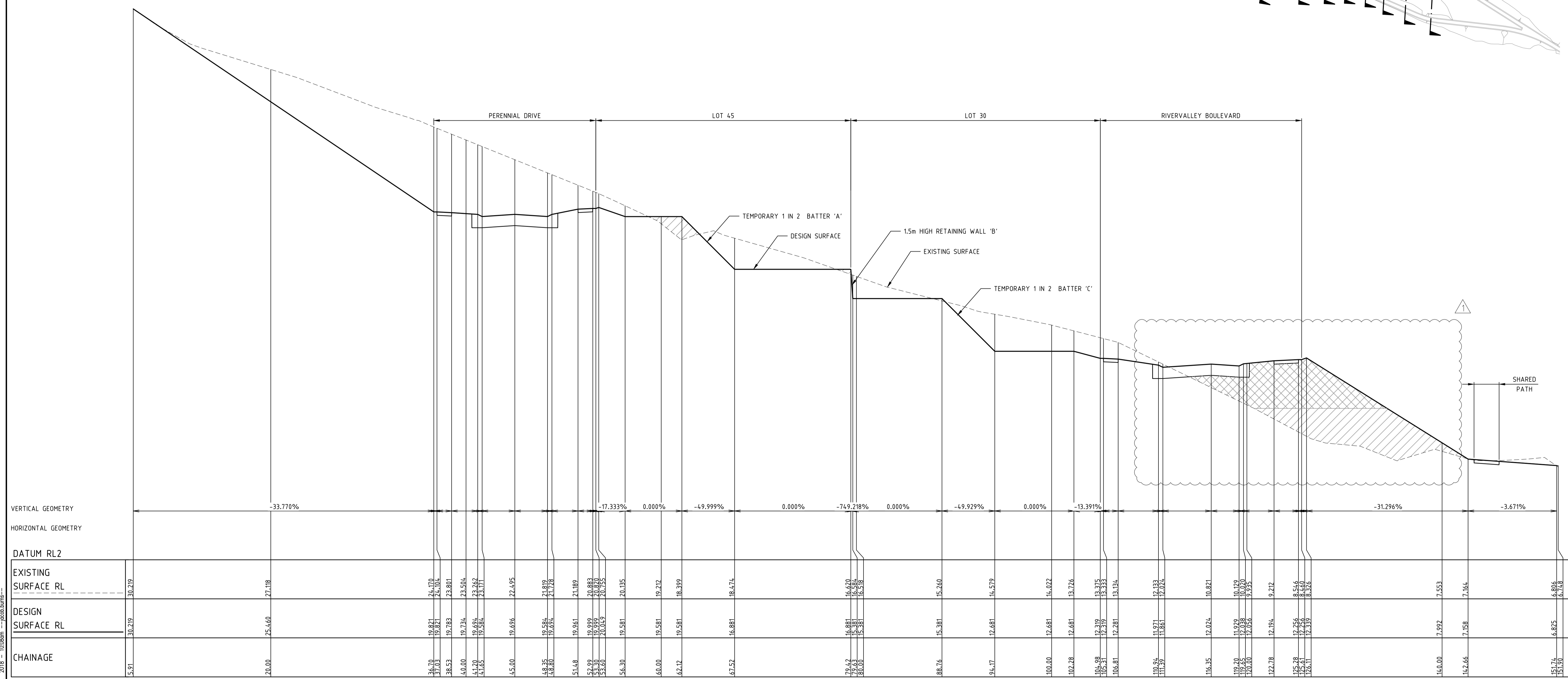
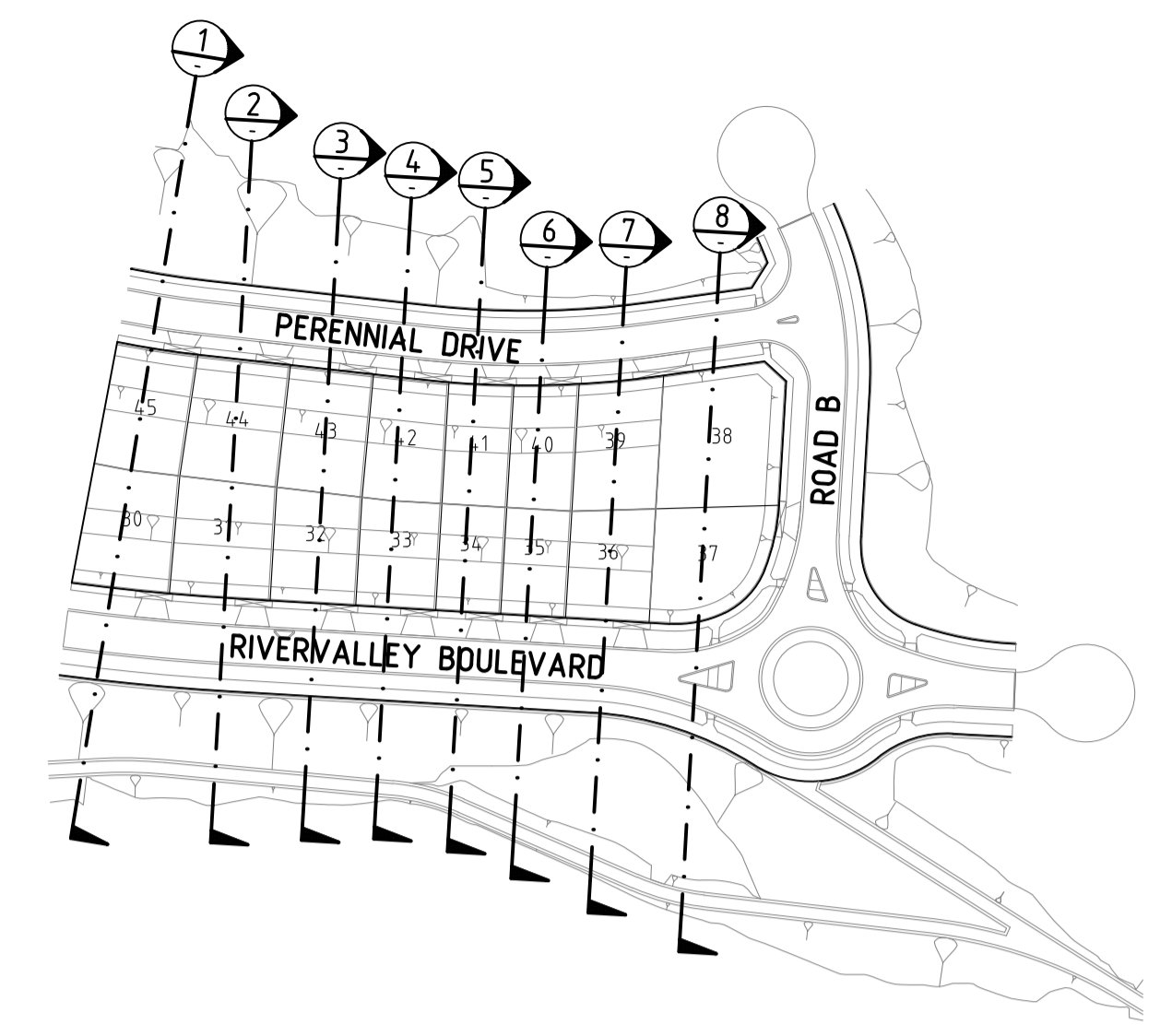
Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631504
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943817
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND
 DENOTES CLASS 2 CRUSHED ROCK BACKFILL

RIVER VALLEY
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
DRAINAGE LONGITUDINAL SECTIONS
SHEET 03 OF 03
Drawing No. 12196DR03 Rev 0
 Sheet No. 37 **CONSTRUCTION**
 Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



SECTION 1

NOTE:
FOR RETAINING WALL AND BATTER
SECTIONS REFER TO SHEET No's 47-48

Drawing File: C:\191_Sunshine\1\2196-River Valley - Stage 7B_11\Model\3D\
 Project Name: RIVER VALLEY ESTATE - STAGE 7B - SUNSHINE NORTH
 Date/Time: Thu Jun 07, 2018 - 10:08am --jacob.burns--

1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631505
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943818
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

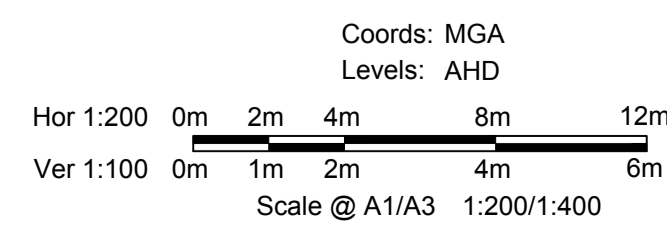
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 SITE SECTIONS
 SHEET 01 OF 08
 Drawing No. 12196SS01 Rev 1



Sheet No. 38 CONSTRUCTION
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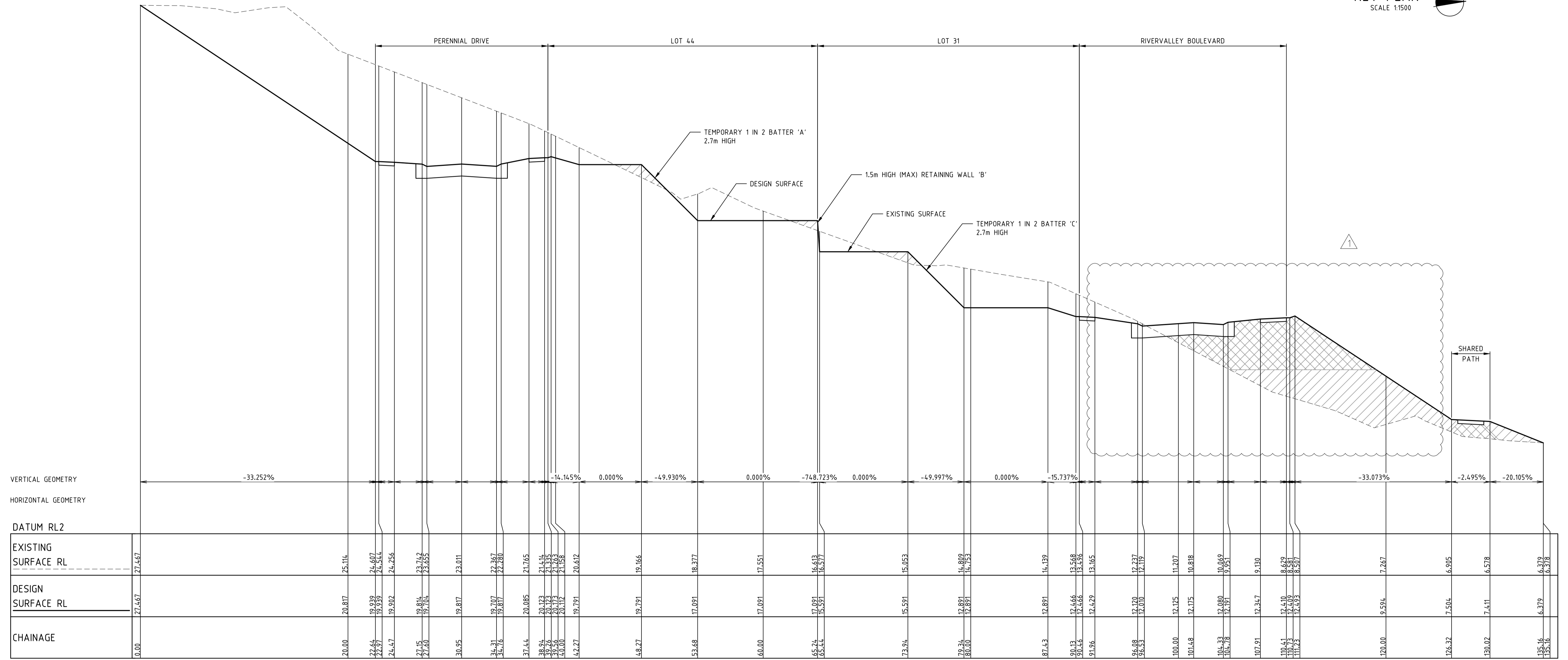
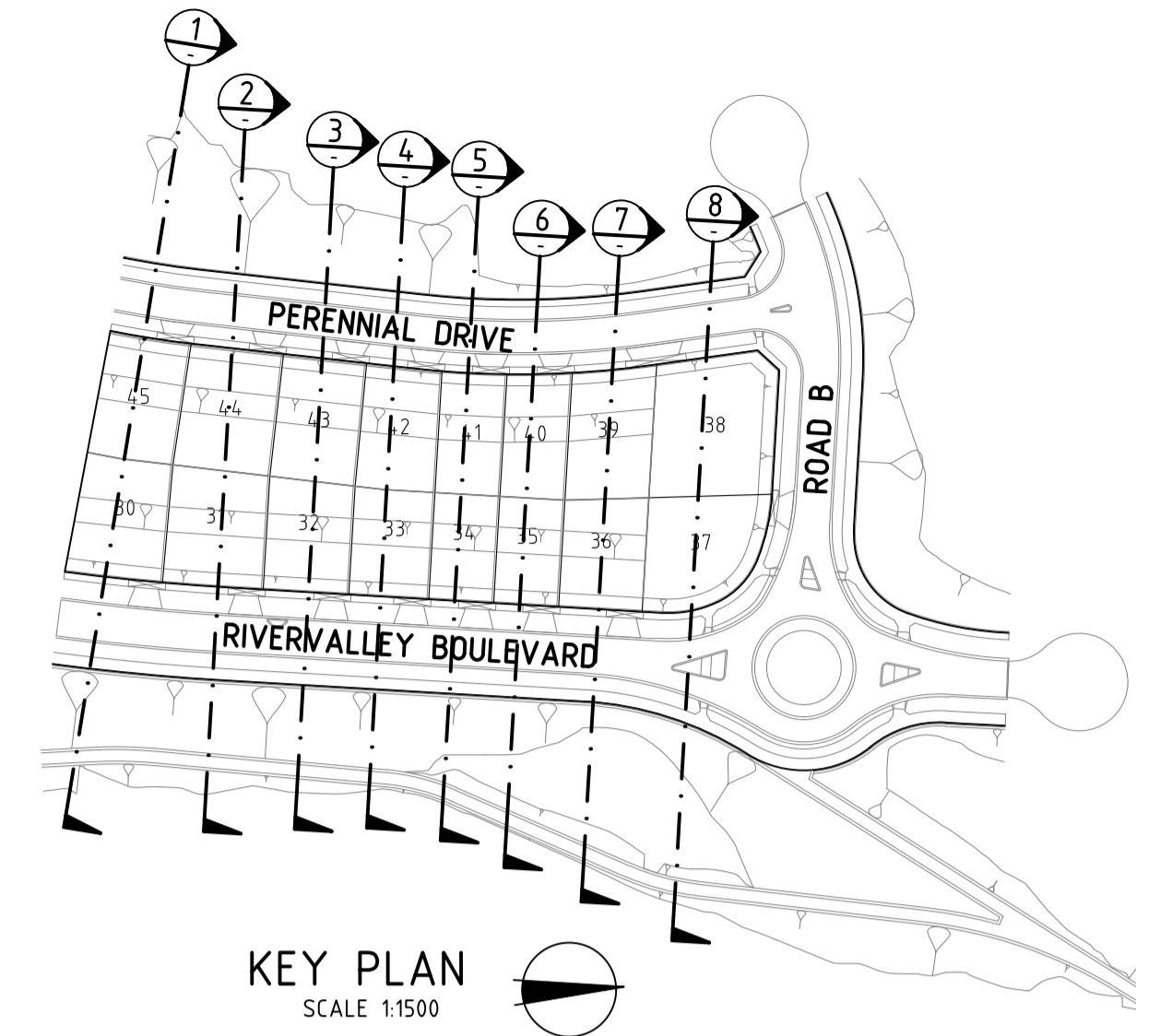


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ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



SECTION 2

NOTE:
FOR RETAINING WALL AND BATTER SECTIONS REFER TO SHEET No's 47-48

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
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NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

Drawing File: C:\Users\jacob.burns\OneDrive\Documents\12196-river valley - Stage 7B_11\Modell\10\Drawings\Site\12196-Stage 7B - 1008am - jacob.burns - 01/02/18 - 1008am - jacob.burns - 01/02/18

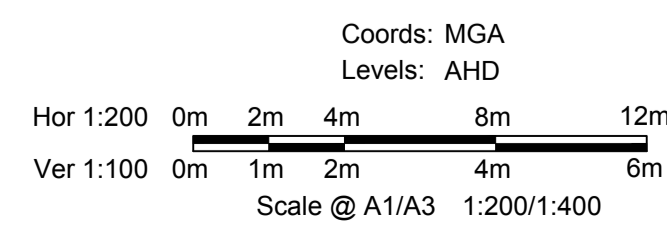
REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631506
Verified T.THAVENDRAN
Date 05/07/17
AN 943819
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

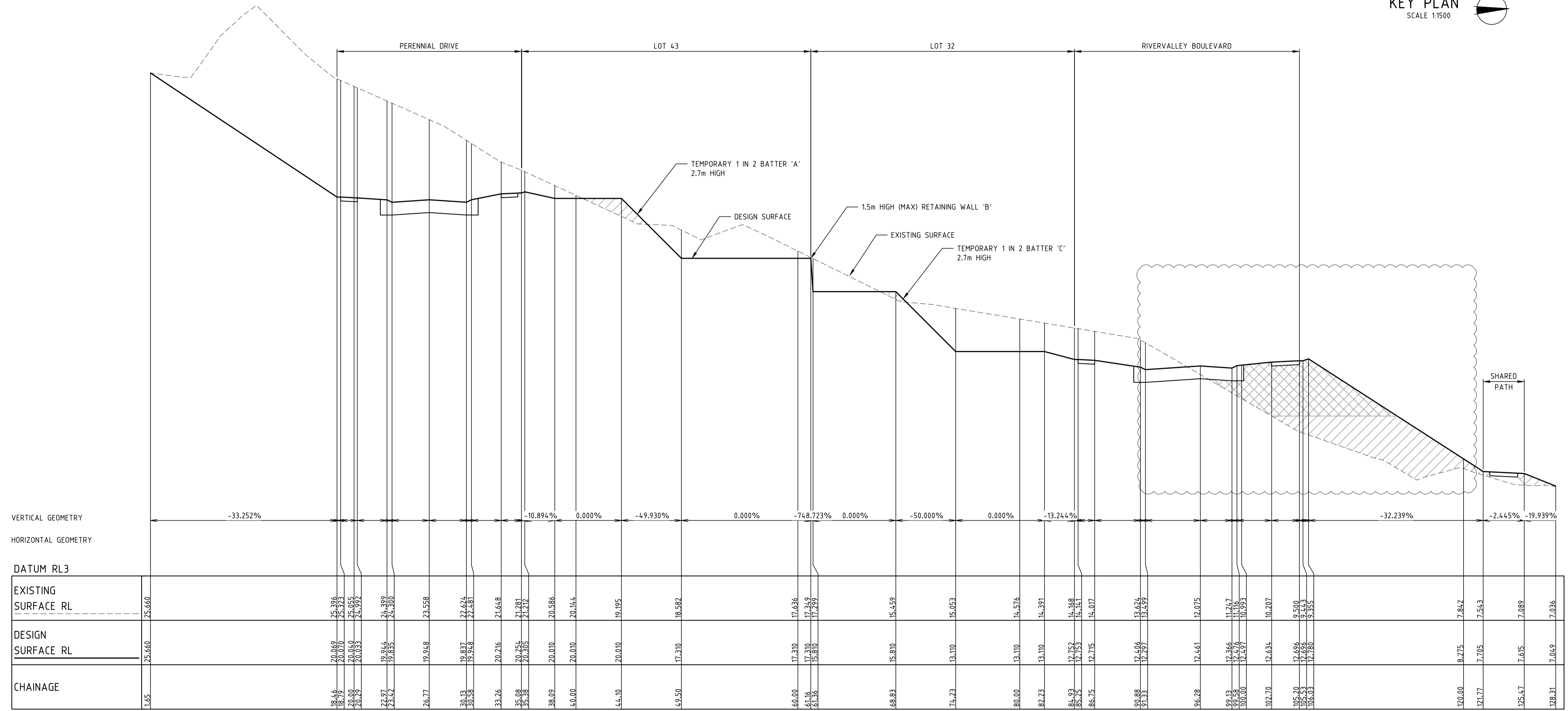
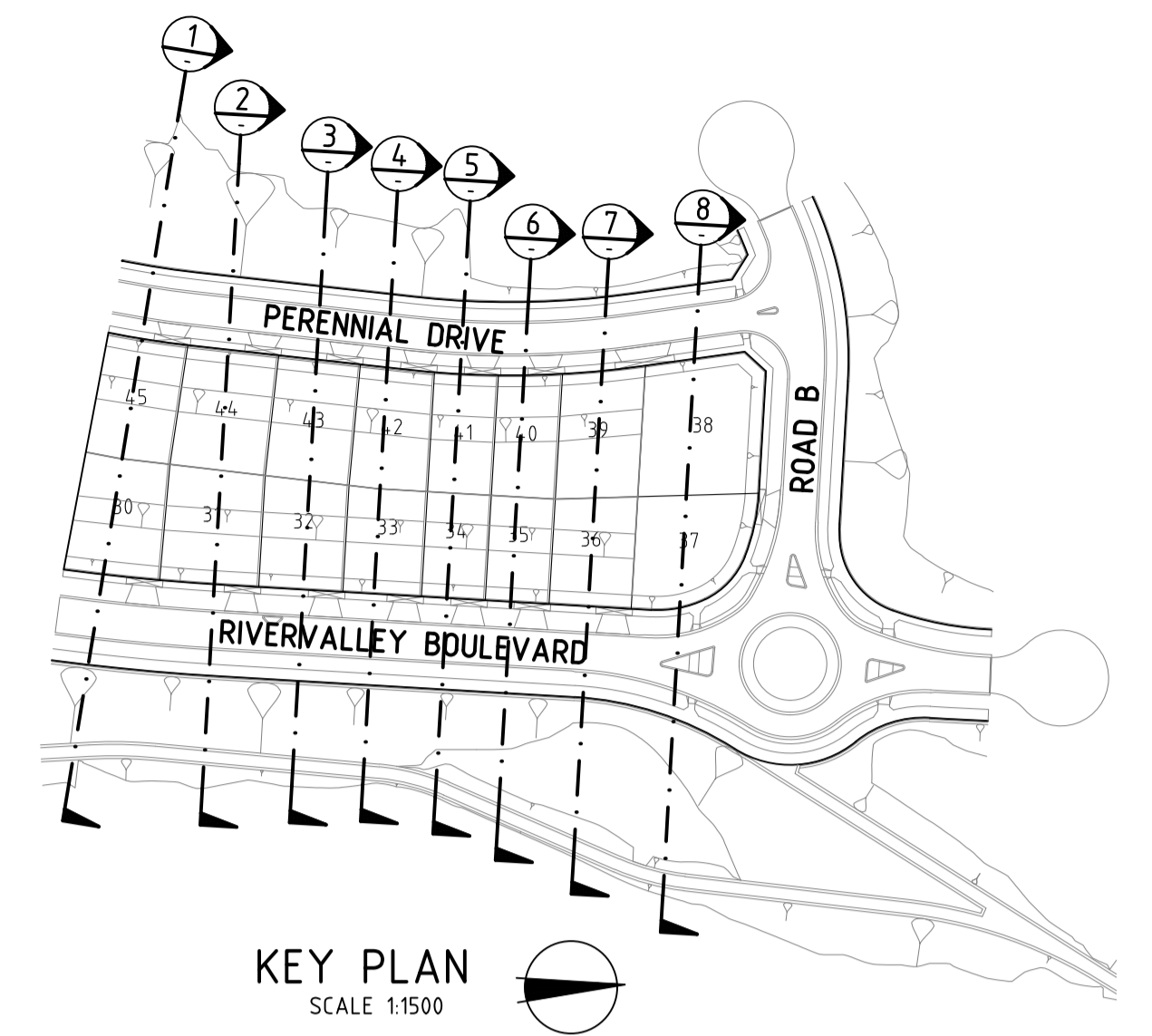


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RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
SITE SECTIONS
SHEET 02 OF 08
Drawing No. 12196SS02 Rev 1
Sheet No. 39 CONSTRUCTION



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SECTION 3
NOTE: FOR RETAINING WALL AND BATTER SECTIONS REFER TO SHEET No's 47-48

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE: STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE: FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE: REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631507
Verified T.THAVENDRAN
Date 05/07/17
AN 943820
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SHINE NORTH
SITE SECTIONS
SHEET 03 OF 08
Drawing No. 12196SS03 Rev 1
Sheet No. 40 CONSTRUCTION

Coords: MGA
Levels: AHD

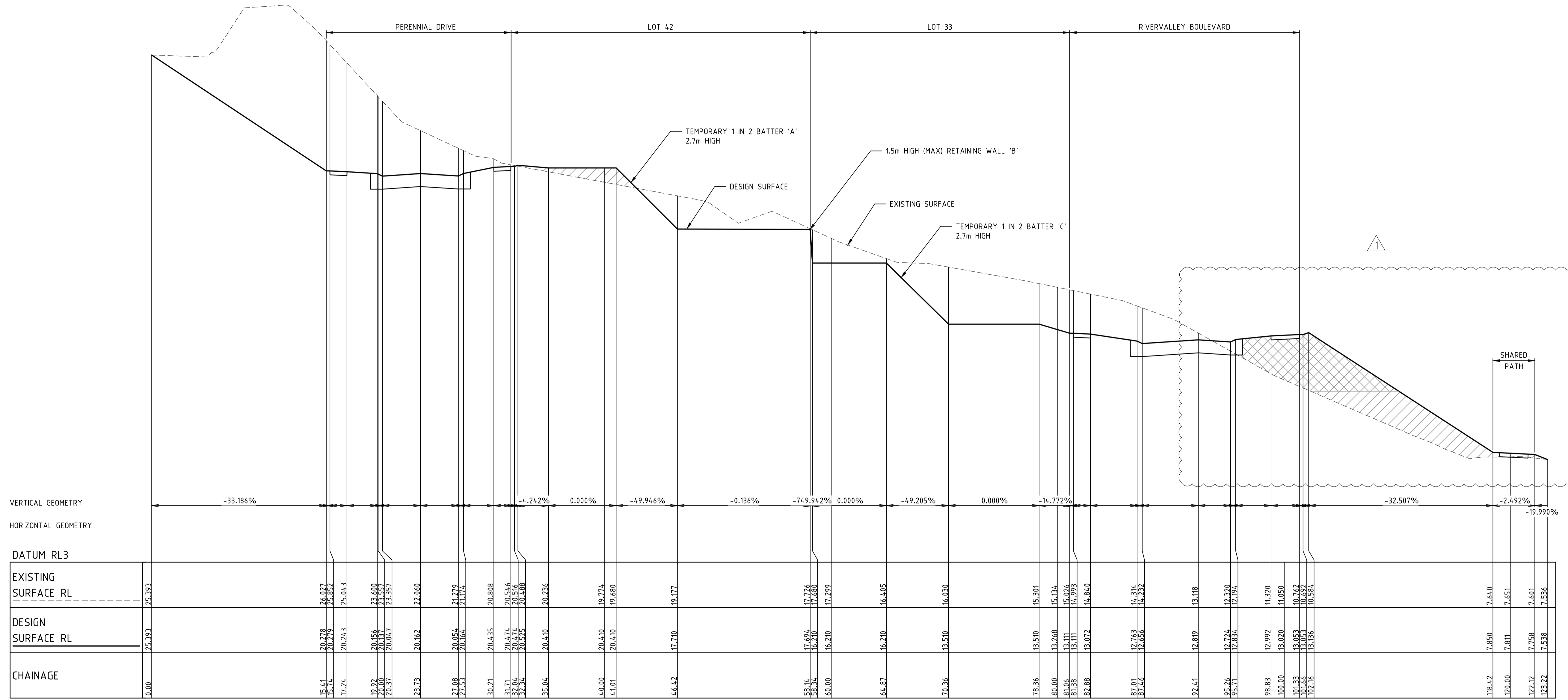
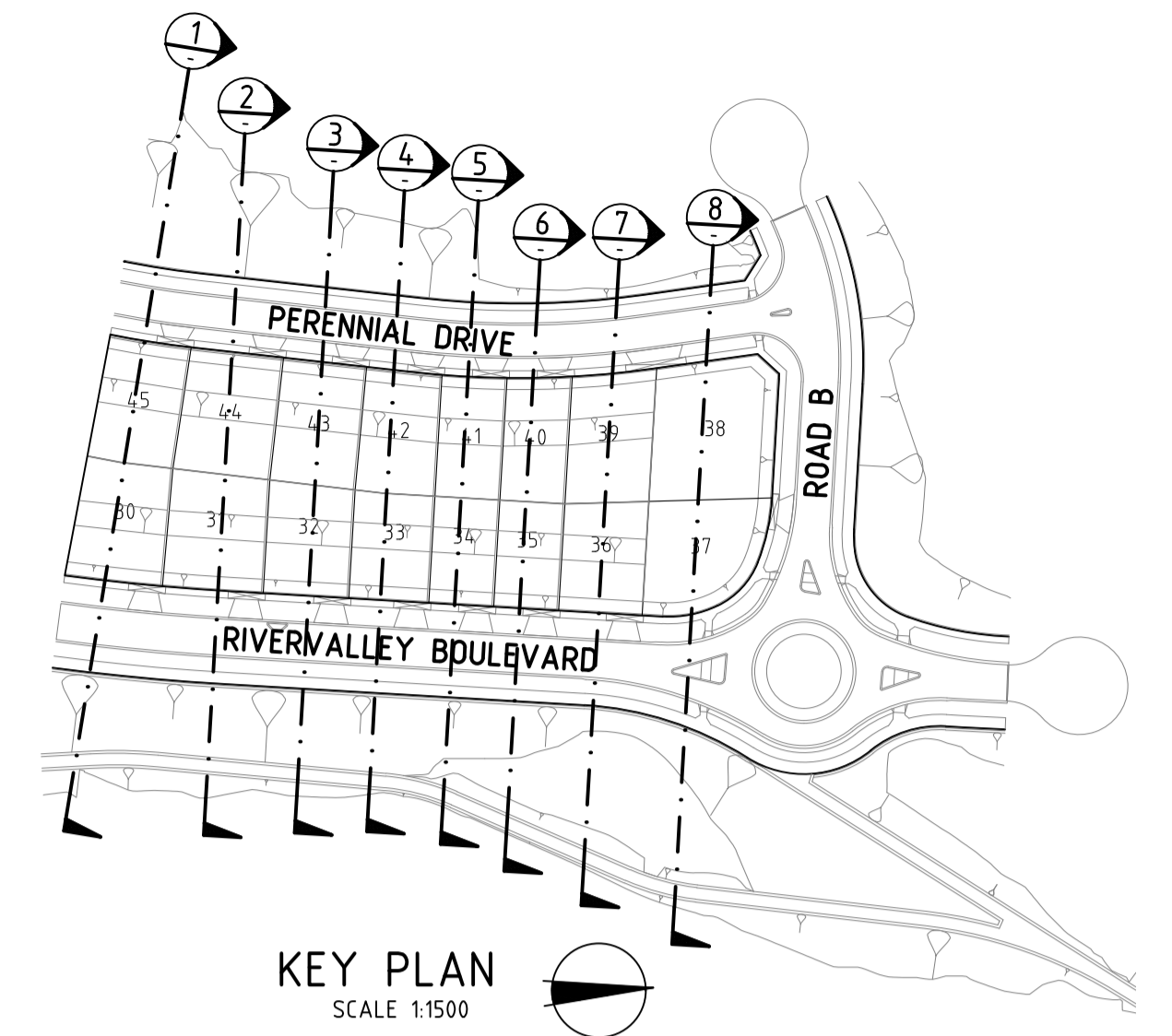
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Ver 1:100 0m 1m 2m 4m 6m
Scale @ A1/A3 1:200/1:400

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Drawing File: C:\Users\jacob.burns\OneDrive - Atlantic Link Pty Ltd\Documents\12196-River Valley - Stage 7B_11\Sheet\03\12196-SS03.dwg
 Date/Time: Thu Jun 07, 2018 10:08am --jacob.burns--



SECTION 4

NOTE:
FOR RETAINING WALL AND BATTER
SECTIONS REFER TO SHEET No's 47-48

LEGEND

	DENOTES STRUCTURAL FILL (TYPE 2)
	TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEO OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

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 Date/Time: Thu Jun 07, 2018 - 10:08am -- jacob.burns--

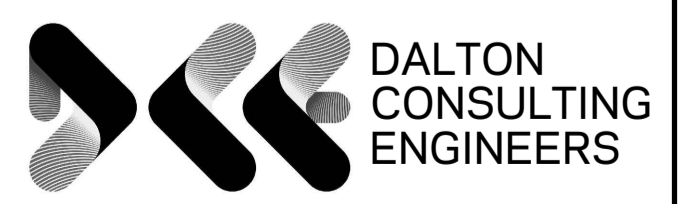
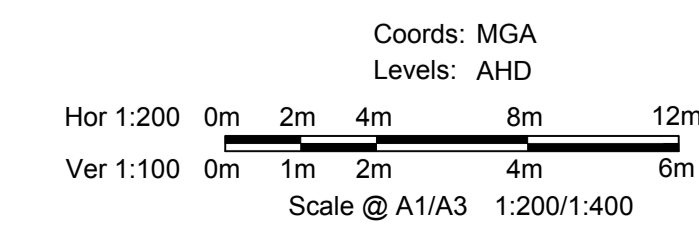
REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631508
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943821
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



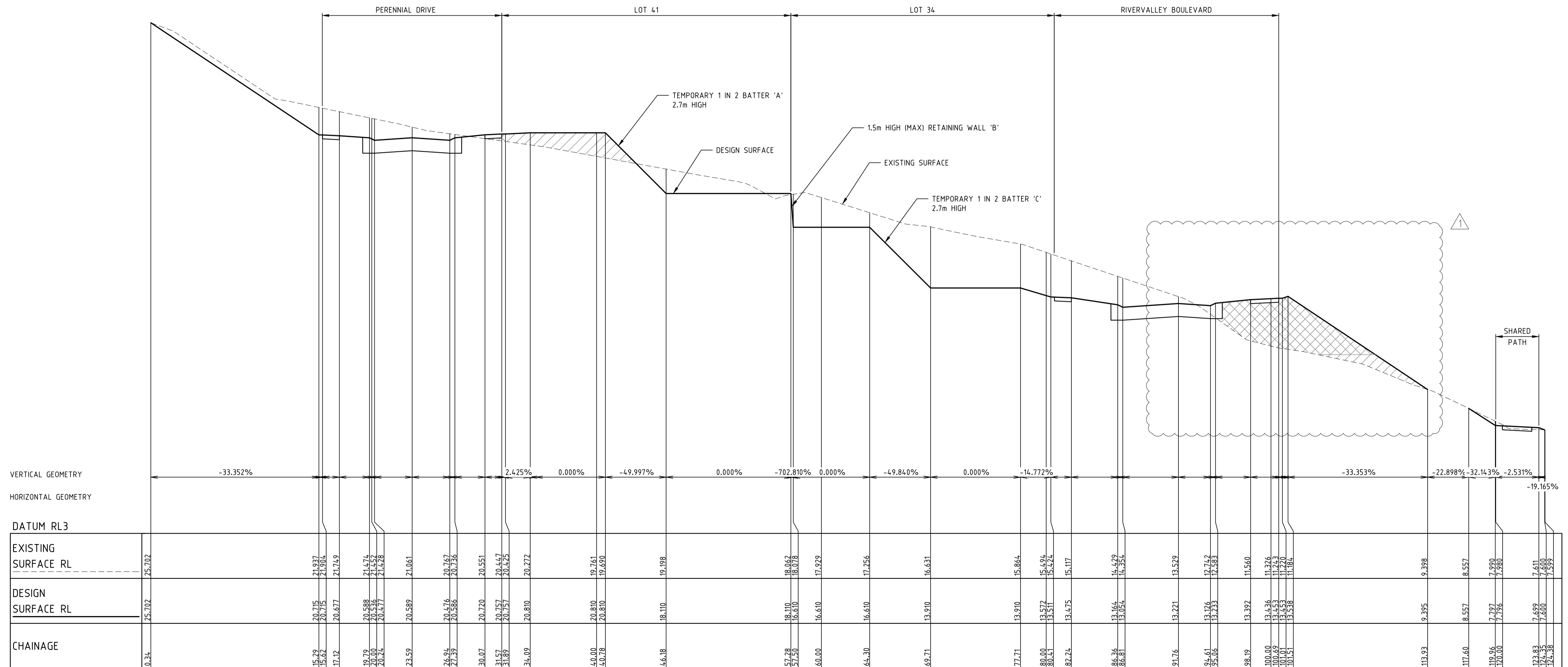
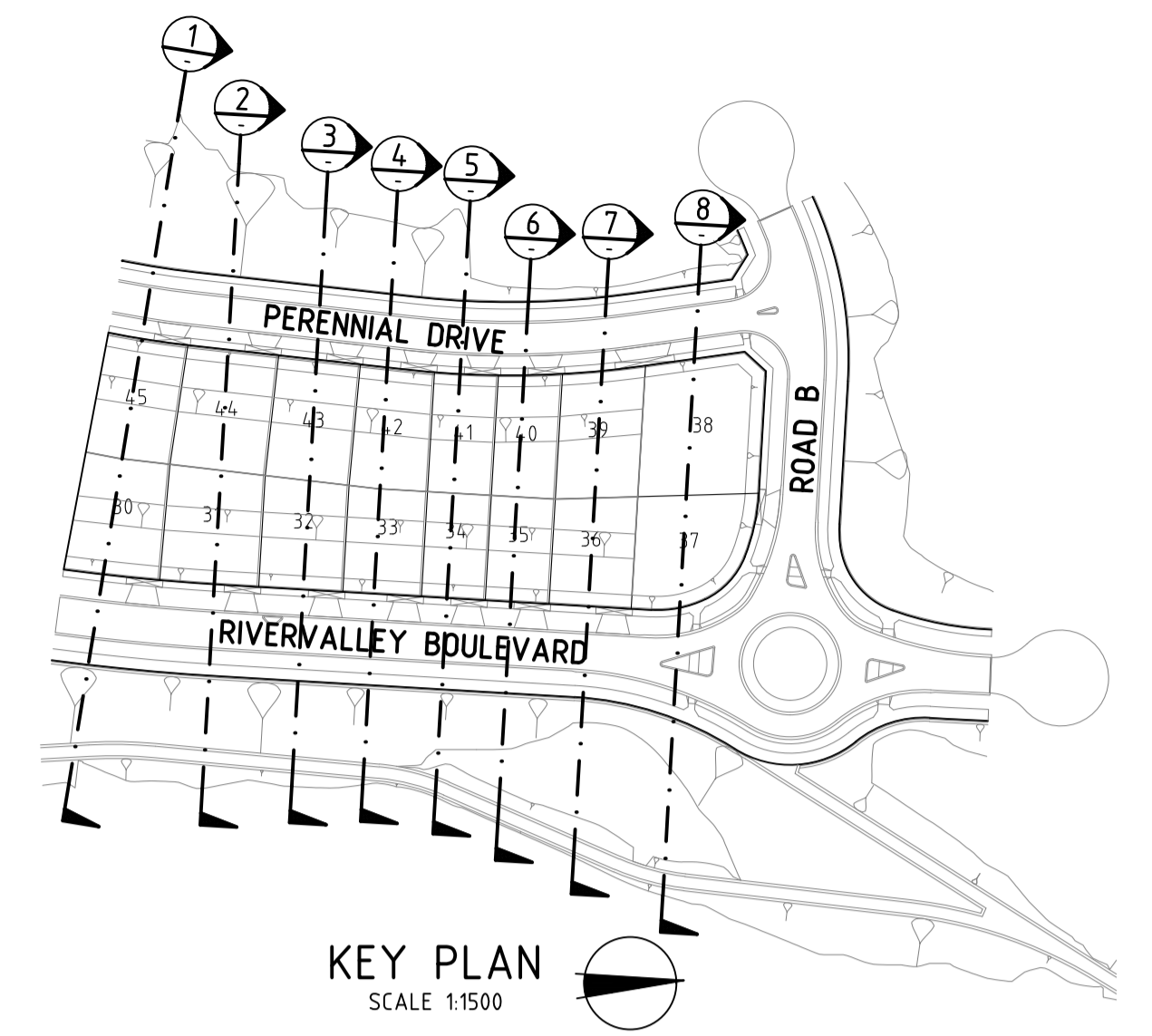
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 SUNSHINE NORTH
 SITE SECTIONS
 SHEET 04 OF 08
 Drawing No. 12196SS04 Rev 1
 Sheet No. 41 CONSTRUCTION



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SECTION 5
NOTE:
FOR RETAINING WALL AND BATTER SECTIONS REFER TO SHEET No's 47-48

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEO OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

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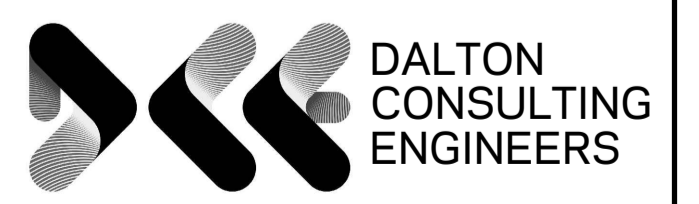
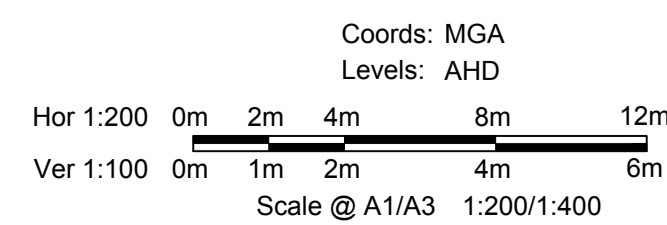
REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631509
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943822
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

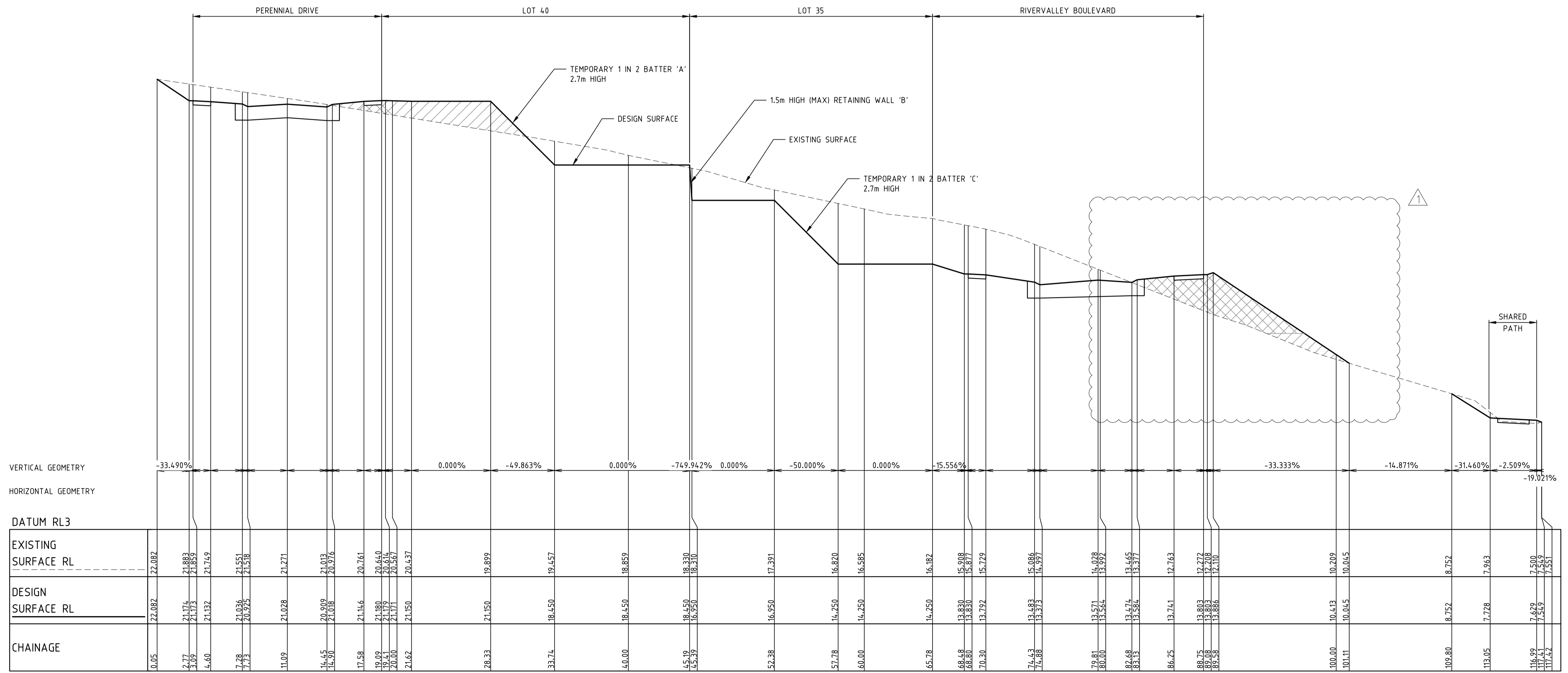
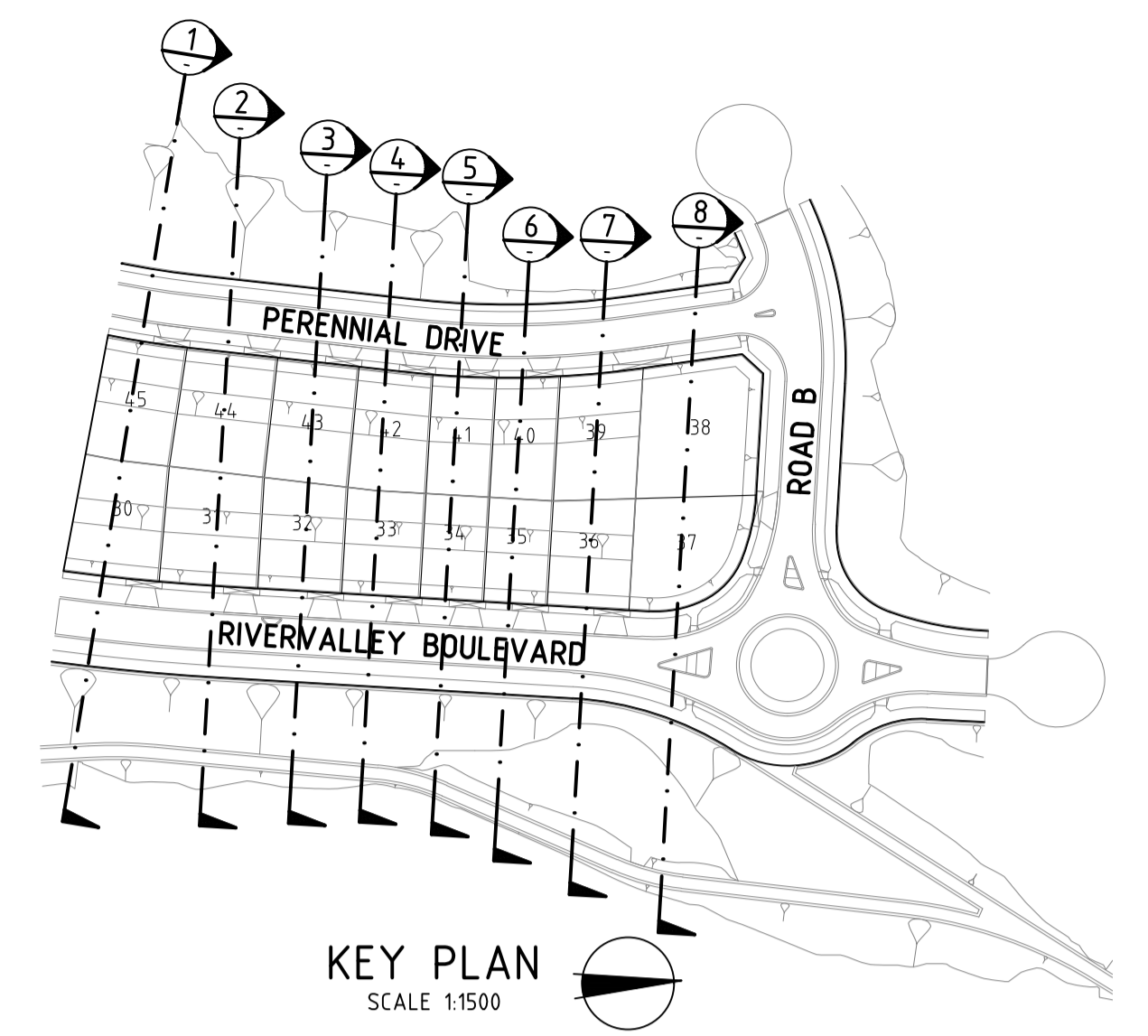
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



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SECTION 6
NOTE:
FOR RETAINING WALL AND BATTER SECTIONS REFER TO SHEET No's 47-48

Drawing File: C:\Users\jacob.burns\OneDrive\Documents\12196-river valley - Stage 7B_11\Mod\10\Date/Files_Thu Jun 07, 2018 - 10:08am --jacob.burns--

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631510
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943823
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEO OR FLATTENED.

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL < 1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

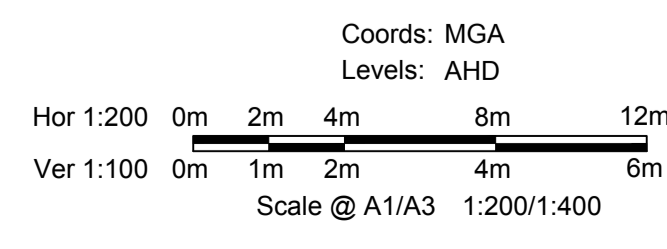
NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



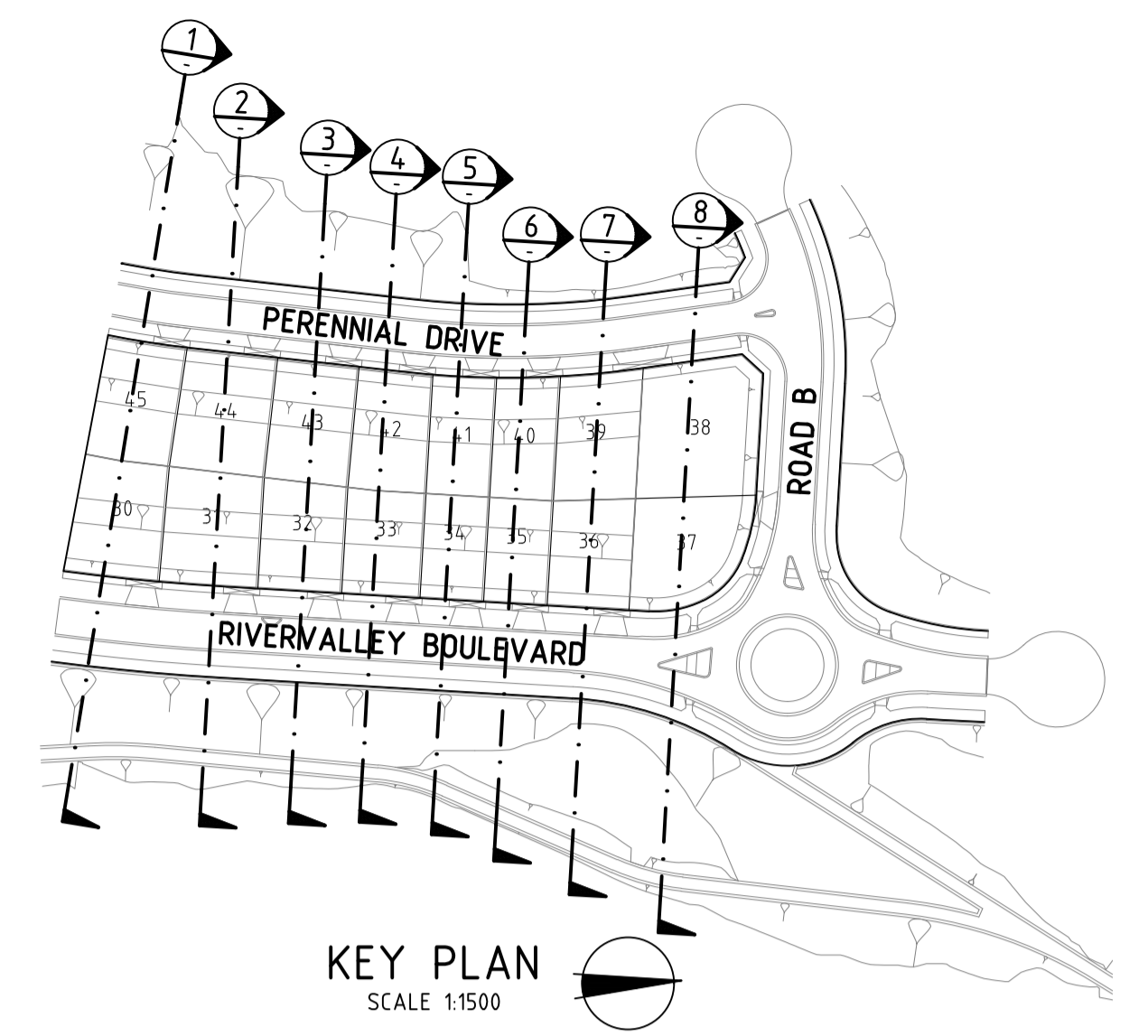
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 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
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 SHEET 06 OF 08
 Drawing No. 12196SS06 Rev 1
 Sheet No. 43 CONSTRUCTION



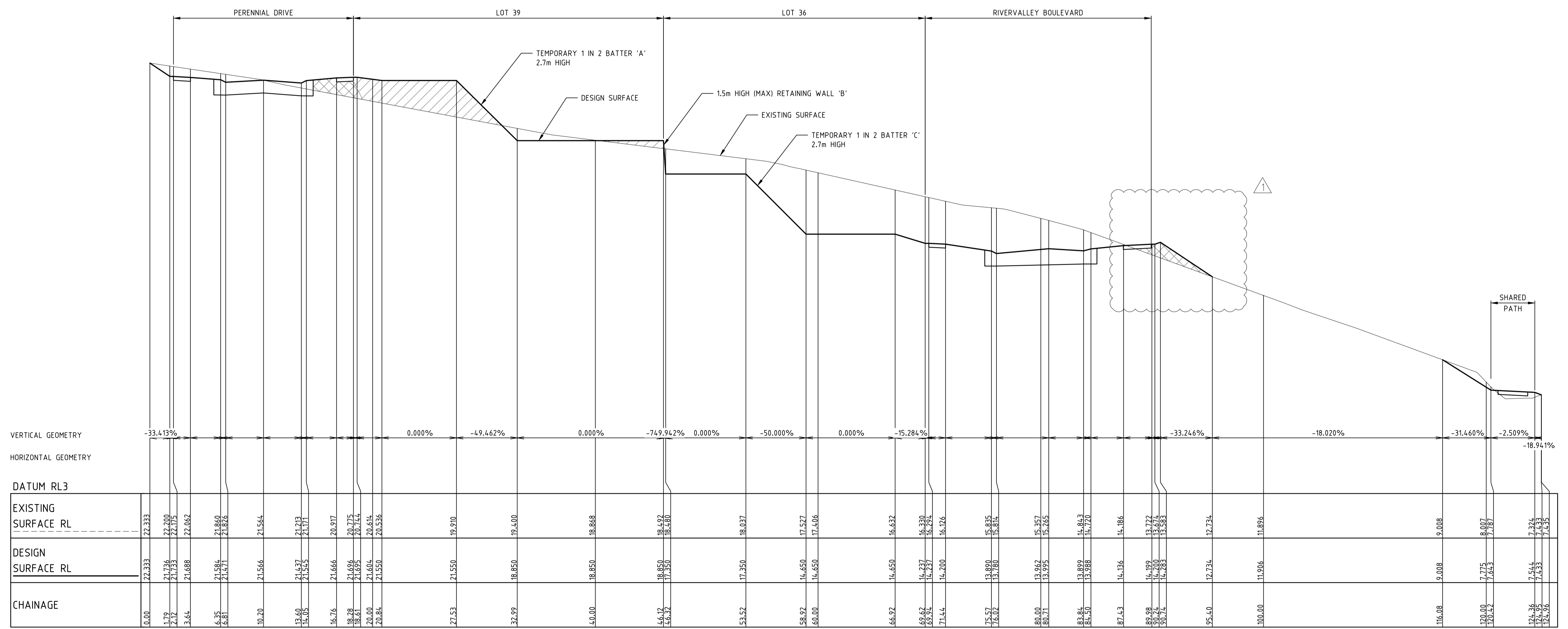
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 Levels: AHD
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KEY PLAN
SCALE 1:1500



SECTION 7
NOTE:
FOR RETAINING WALL AND BATTER SECTIONS REFER TO SHEET No's 47-48

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL <1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
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NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

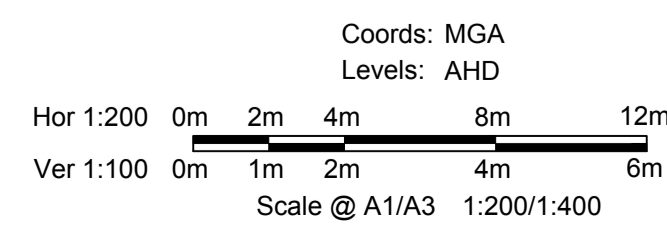
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 Date/Time: Thu Jun 07, 2018 - 10:08am --jacob.burns--

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631511
Verified T.THAVENDRAN
Date 05/07/17
AN 943824
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267



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SUNSHINE NORTH
SITE SECTIONS
SHEET 07 OF 08
Drawing No. 12196SS07 Rev 1



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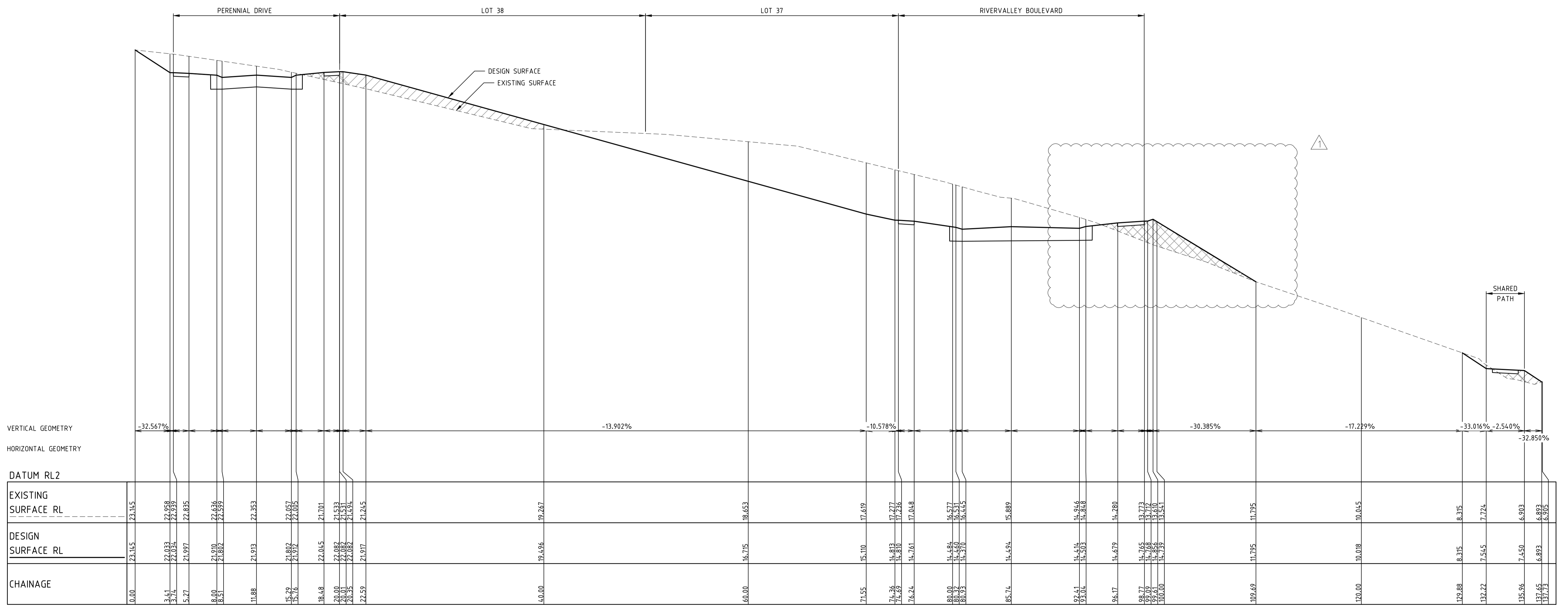
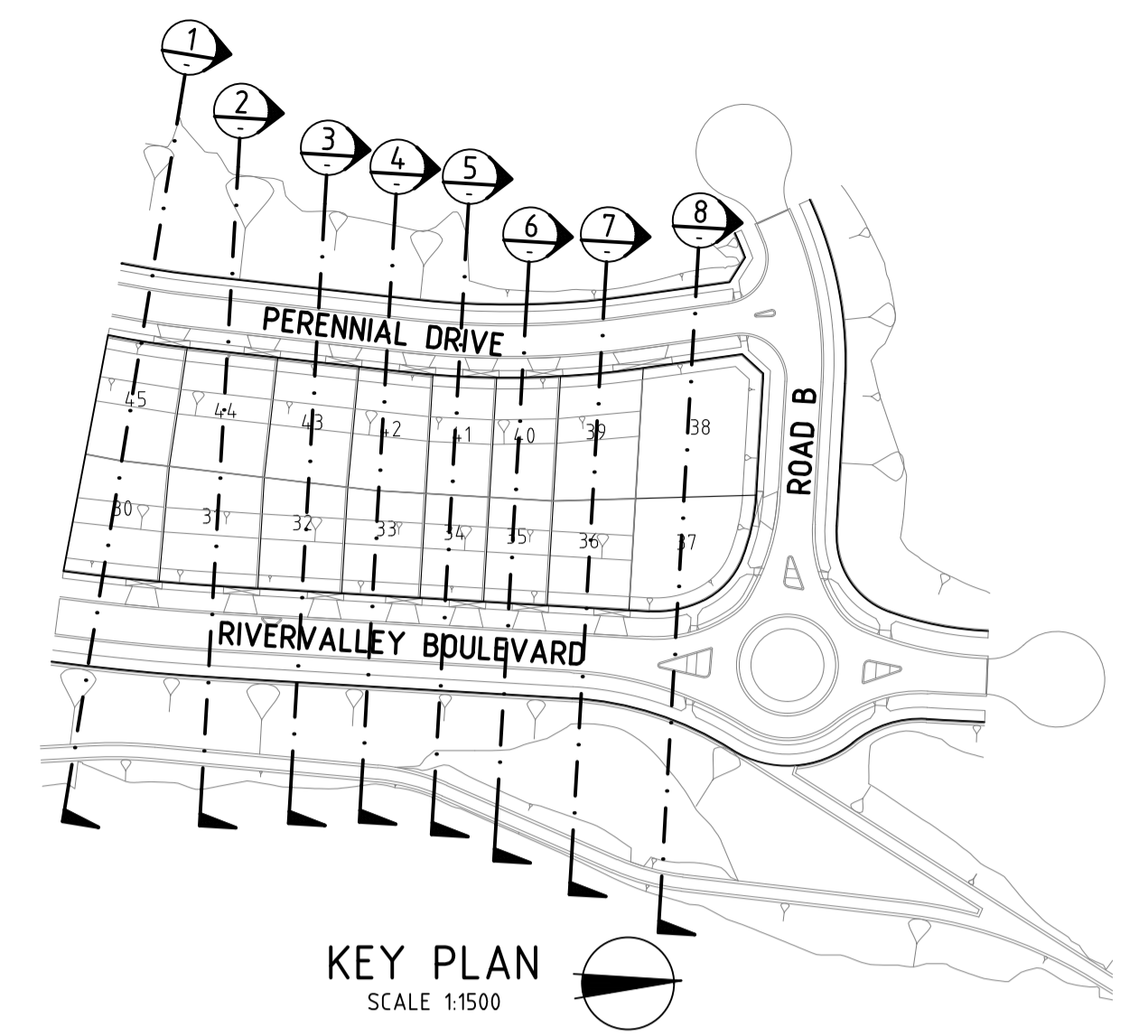


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ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



VERTICAL GEOMETRY	-32.567%														-13.902%														-10.578%														-30.385%														-17.229%														-33.016%														-2.540%														-32.850%													
HORIZONTAL GEOMETRY																																																																																																																
DATUM RL2																																																																																																																
EXISTING SURFACE RL	23.145	22.958	22.839	22.895	22.636	22.699	22.853	22.857	22.805	21.701	21.533	21.533	21.594	21.454	21.245	19.267	18.653	17.419	17.277	17.238	17.048	16.577	16.531	16.443	15.889	14.880	14.268	14.268	13.773	13.773	13.410	13.410	13.341	11.795	10.045	8.315	7.724	6.903	6.893	6.893																																																																								
DESIGN SURFACE RL	23.145	22.033	22.034	22.895	21.910	21.802	21.913	21.802	21.912	22.045	22.082	21.533	21.594	21.454	21.245	19.496	16.715	15.110	14.813	14.810	14.761	14.484	14.460	14.370	14.494	14.679	14.414	14.414	14.265	14.265	14.265	14.265	14.265	11.795	10.018	8.315	7.545	7.450	6.893	6.893																																																																								
CHAINAGE	0.00	3.41	7.74	5.27	8.00	8.51	11.88	15.79	15.76	18.48	20.00	20.35	20.35	22.59	40.00	60.00	71.55	74.36	76.89	76.24	80.00	80.32	80.32	85.74	92.41	92.41	92.41	92.41	92.41	92.41	92.41	92.41	102.69	120.00	129.88	132.22	135.96	137.65	137.65																																																																									

SECTION 8

NOTE:
FOR RETAINING WALL AND BATTER
SECTIONS REFER TO SHEET No's 47-48

LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

Drawing File: C:\Users\jacob.burns\OneDrive\Documents\12196-River Valley - Stage 7B_11\Mod\10\12196SS08.dwg
 Date/Time: Thu Jun 07, 2018 - 10:08am --jacob.burns--

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAILS REVISED	16/05/18	TL
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631512
Verified T.THAVENDRAN
Date 05/07/17
AN 943825
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267



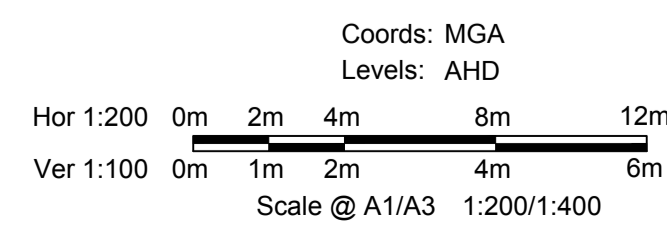
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RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
SITE SECTIONS
SHEET 08 OF 08
Drawing No. 12196SS08 Rev 1



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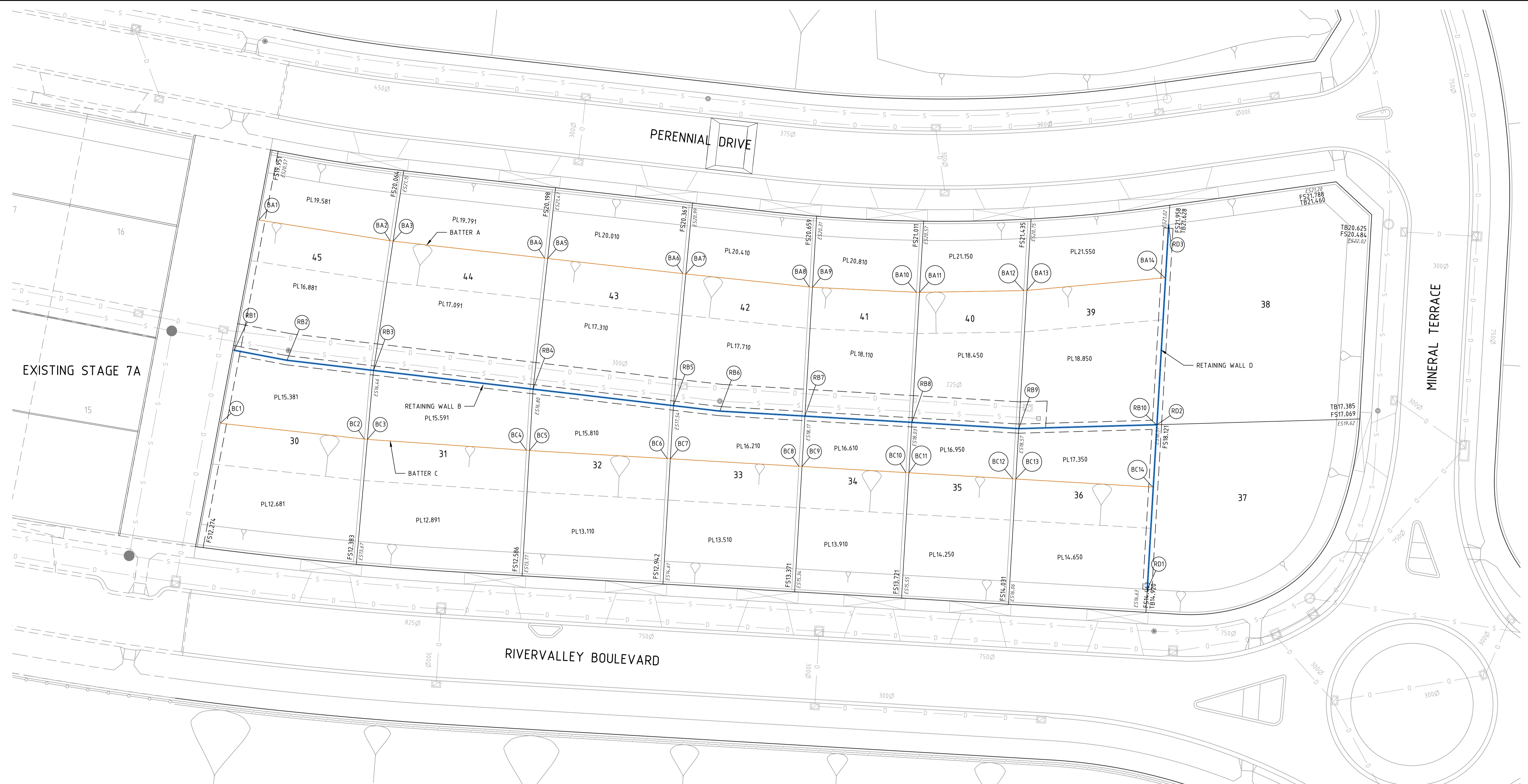
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Coords: MGA
Levels: AHD
Sheet No. 45
Scale @ A1/A3 1:200/1:400
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



ALIGNMENT BA

POINT NO	EASTING	NORTHING	RL
BA1	310365.371	5819000.186	19.581
BA2	310368.092	5819017.332	19.581
BA3	310368.138	5819017.730	19.791
BA4	310370.356	5819037.541	19.791
BA5	310370.401	5819037.938	20.010
BA6	310372.377	5819055.594	20.010
BA7	310372.422	5819055.991	20.410
BA8	310374.132	5819072.152	20.410
BA9	310374.165	5819072.551	20.810
BA10	310374.819	5819086.136	20.810
BA11	310374.825	5819086.536	21.150
BA12	310374.598	5819100.173	21.150
BA13	310374.578	5819100.575	21.550
BA14	310372.918	5819118.628	21.550

ALIGNMENT RB

POINT NO	EASTING	NORTHING	RL
RB1	310382.397	5818996.962	16.881
RB2	310383.708	5819003.862	16.881
RB3	310385.036	5819015.172	17.091
RB4	310387.485	5819036.026	17.310
RB5	310389.639	5819054.376	17.709
RB6	310390.352	5819060.445	17.710
RB7	310391.004	5819071.564	18.110
RB8	310391.823	5819085.540	18.450
RB9	310392.641	5819099.516	18.850
RB10	310392.132	5819117.502	18.850

ALIGNMENT BC

POINT NO	EASTING	NORTHING	RL
BC1	310391.945	5818995.153	15.381
BC2	310394.014	5819013.973	15.381
BC3	310394.049	5819014.372	15.591
BC4	310395.482	5819035.157	15.591
BC5	310395.505	5819035.556	15.810
BC6	310396.560	5819053.570	15.810
BC7	310396.584	5819053.969	16.210
BC8	310397.569	5819070.779	16.210
BC9	310397.592	5819071.178	16.610
BC10	310398.388	5819084.755	16.610
BC11	310398.411	5819085.154	16.950
BC12	310399.207	5819098.731	16.950
BC13	310399.230	5819099.130	17.350
BC14	310400.279	5819117.025	17.350

ALIGNMENT RD

POINT NO	EASTING	NORTHING	RL
RD1	310413.660	5819116.316	15.250
RD2	310392.130	5819117.577	18.850
RD3	310366.022	5819119.107	21.850

- LEGEND**
- CONCRETE SLEEPER WALL - KENSINGTON PATTERN
 - TOP OF MID-BLOCK BATTER

NOTE:
DRAWING TO BE READ IN CONJUNCTION WITH
STRUCTURAL DESIGN DRAWING SET BY OTHERS

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
RETAINING WALL PLAN

Drawing No. 12196RWP01 Rev 0
Sheet No. 46 **CONSTRUCTION**

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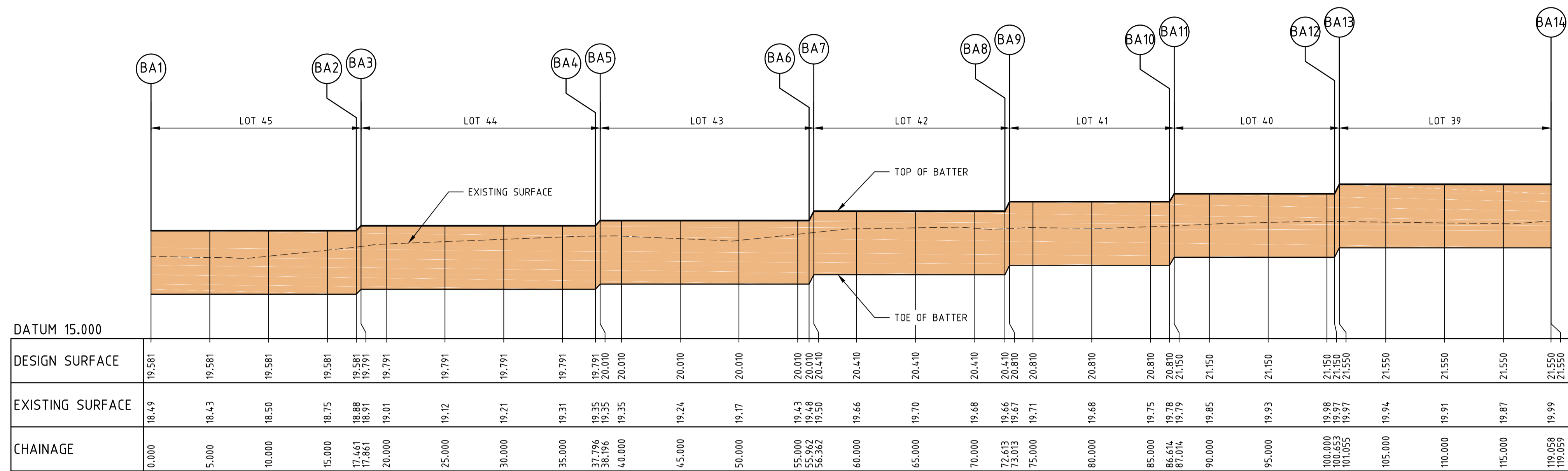
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 Date/Time: Thu Jun 07, 2018 - 10:08am -- jacob.burns

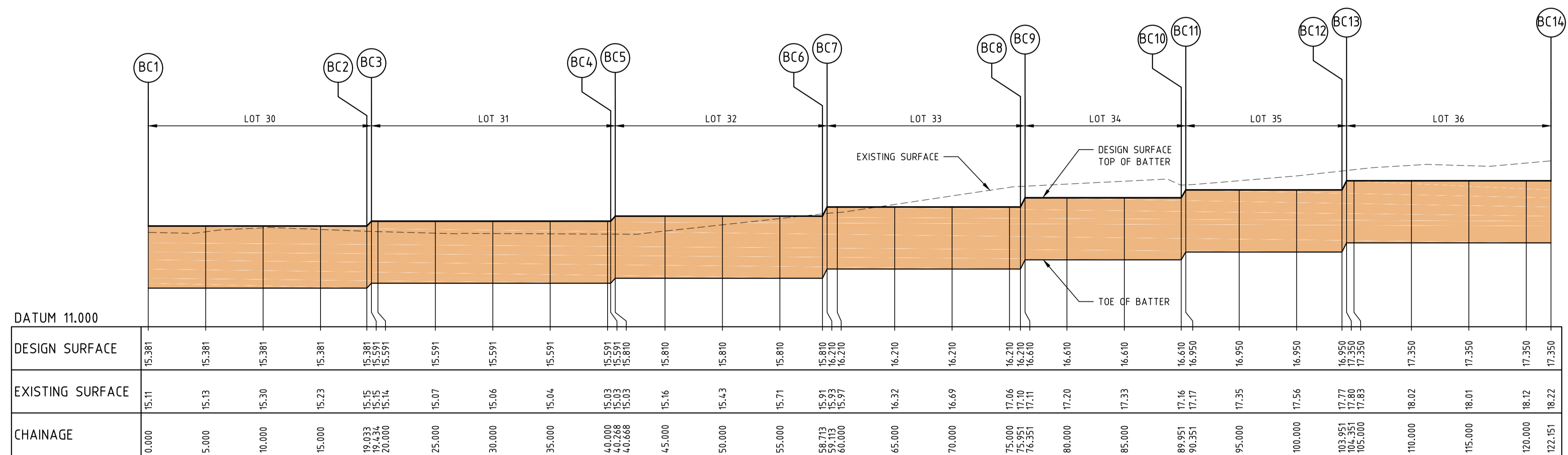
REV	AMENDMENTS	DATE	APPD.
0	CONSTRUCTION ISSUE	01/02/18	TL

Drawn B.ADAMS
Date 23/06/17
AN 2591001
Designed J.BURNS
Date 23/06/17
AN 1631513
Verified T.THAVENDRAN
Date 05/07/17
AN 943826
Audited R.MASON
Date 29/01/18
AN 705138
Approved T.LIAKOPOULOS
Date 01/02/18
AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



LONGITUDINAL SECTION - TOP OF BATTER "A"
 2.7m HIGH BATTER (AT 1 IN -2 SLOPE)
 LOTS 45-39



LONGITUDINAL SECTION - TOP OF BATTER "C"
 2.7m HIGH BATTER (AT 1 IN -2 SLOPE)
 LOTS 30-36

Drawing File: C:\24_Sunshine\1\2196-river valley - Stage 7B_11\Word\10\...
 Date/Time: Thu Jun 07, 2018 - 10:08am -- jacob.burns--

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 AN 1631515
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 Date 05/07/17
 AN 943828
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 AN 888267

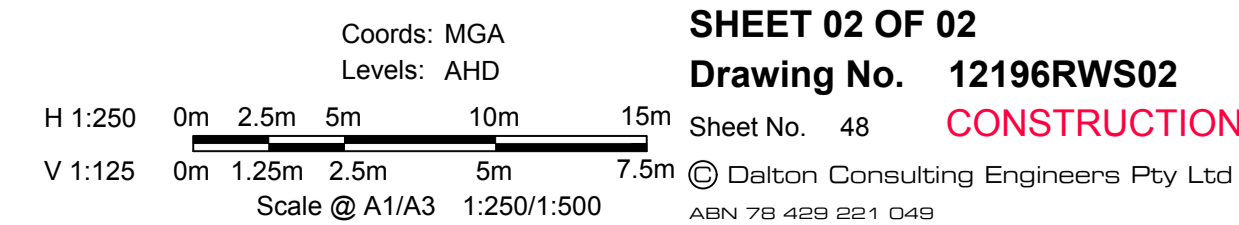
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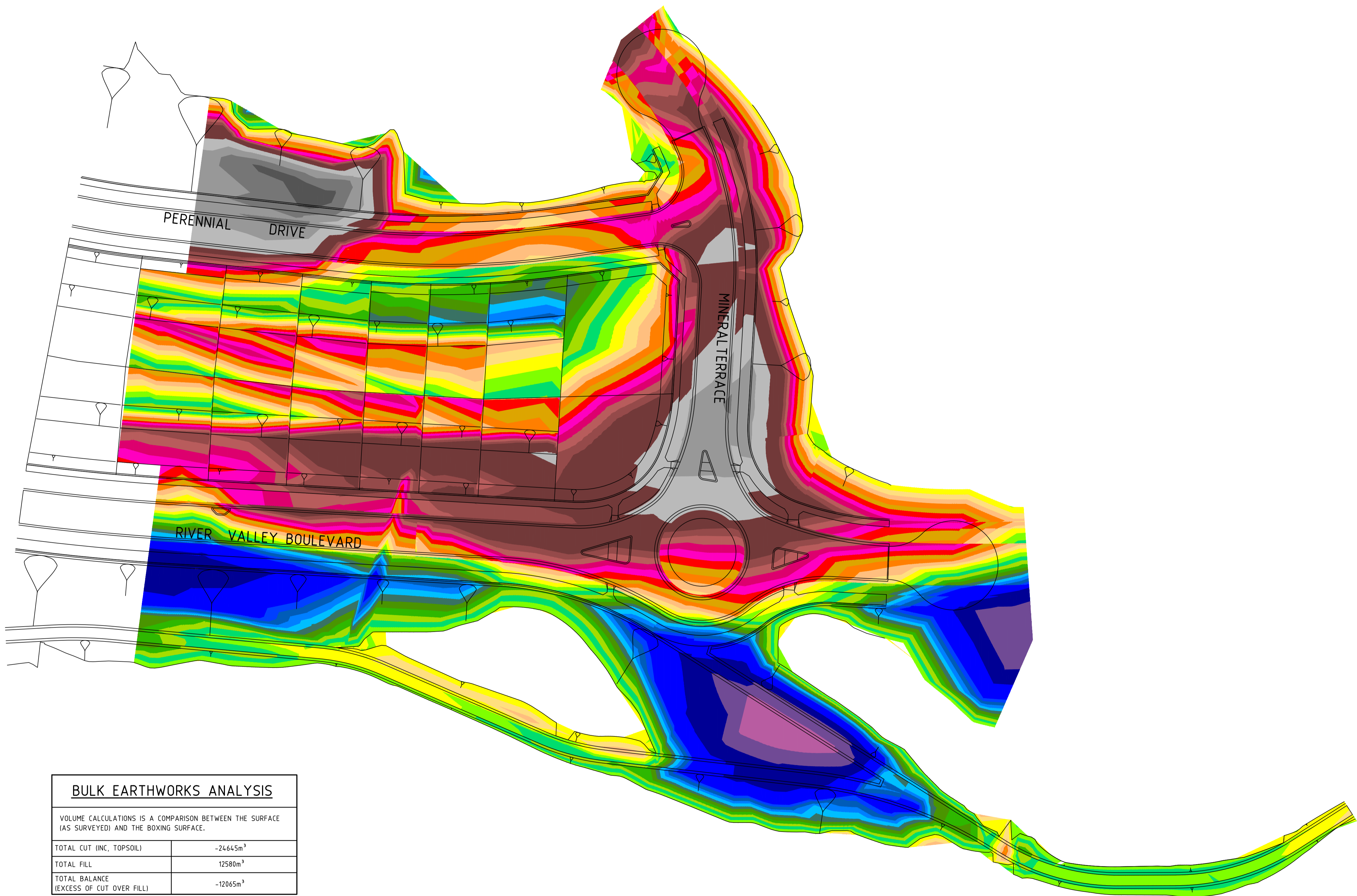
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 RETAINING WALL AND BATTER SECTIONS
 SHEET 02 OF 02
 Drawing No. 12196RWS02 Rev 0
 Sheet No. 48 **CONSTRUCTION**



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BULK EARTHWORKS ANALYSIS	
VOLUME CALCULATIONS IS A COMPARISON BETWEEN THE SURFACE (AS SURVEYED) AND THE BOXING SURFACE.	
TOTAL CUT (INC. TOPSOIL)	-24645m ³
TOTAL FILL	12580m ³
TOTAL BALANCE (EXCESS OF CUT OVER FILL)	-12065m ³

Drawing File: C:\Users\jacob.burns\OneDrive\Documents\12196-River Valley - Stage 7B_11\Mod\10\1000\1000.dwg
 Date/Time: Thu Jun 07, 2018 - 10:08am --jacob.burns--

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 Date 23/06/17
 AN 1631516
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943829
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

LEGEND					
Dark Grey	-10.0 TO -6m	Brown	-1.8 TO -1.6m	Light Orange	-0.6 TO -0.4m
Grey	-6 TO -5m	Magenta	-1.6 TO -1.4m	Yellow	-0.4 TO -0.2m
Light Grey	-5 TO -4m	Red	-1.4 TO -1.2m	Light Green	-0.2 TO 0.0m
Very Light Grey	-4 TO -3m	Orange	-1.2 TO -1.0m	Green	0.0 TO 0.2m
Dark Brown	-3 TO -2m	Light Orange	-1.0 TO -0.8m	Light Green	0.2 TO 0.4m
Dark Brown	-2 TO -1.8m	Orange	-0.8 TO -0.6m	Light Green	0.4 TO 0.6m
Dark Green	0.6 TO 0.8m	Blue	1.8 TO 2m	Dark Green	0.8 TO 1.0m
Light Green	0.8 TO 1.0m	Dark Blue	2 TO 3m	Dark Green	1.0 TO 1.2m
Green	1.0 TO 1.2m	Very Dark Blue	3 TO 4m	Dark Green	1.2 TO 1.4m
Light Green	1.2 TO 1.4m	Dark Purple	4 TO 5m	Dark Green	1.4 TO 1.6m
Green	1.4 TO 1.6m	Very Dark Purple	5 TO 6m	Dark Green	1.6 TO 1.8m
Light Green	1.6 TO 1.8m	Dark Purple	6 TO 100m		

RIVER VALLEY

 Coords: MGA

 Levels: AHD

 Hor 1:500 0m 5m 10m 20m 30m

 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
BULK EARTHWORKS PLAN
 Drawing No. **12196W01** Rev 0
 Sheet No. 49 **CONSTRUCTION**
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PLAN OF SUBDIVISION		EDITION 1	PS740161W
LOCATION OF LAND		COUNCIL NAME: BRIMBANK CITY COUNCIL	
PARISH: CUT PAW PAW SECTION: 22 CROWN ALLOTMENT: A (PART) SECTION: B CROWN ALLOTMENT: 1 (PART), 2 (PART) & 3 (PART) TITLE REFERENCE: Vol. 8398 Fol. 378 Vol. Fol. LAST PLAN REFERENCE: Lot 1 on TP757835K Lot A on PS709369X POSTAL ADDRESS: Halong Drive (at time of subdivision) SUNSHINE NORTH 3020 MGA 94 CO-ORDINATES: E: 310 390 ZONE: 55 (of approx centre of land in plan) N: 5819 080			
VESTING OF ROADS AND/OR RESERVES		NOTATIONS	
IDENTIFIER	COUNCIL/BODY/PERSON	Easements E-8, E-9, E-10, E-11 & E-12 have been shown exaggerated on sheets 7, 8 & 9 of this plan for clarity purposes. Lots 30 to 36 herein are affected by a restriction. Refer to sheet 10 for details.	
ROAD R1	Brimbank City Council		
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 Maribymong River boundary has been adopted in accordance with BP1583. The area of Lot B on this plan has been deducted from title. STAGING: This is not a staged subdivision. Planning Permit No. P1016/2014			
RIVER VALLEY ESTATE - Release 7B Area of Release: 1.617ha No. of Lots: 16 Lots and Balance Lot B			
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			
TAYLORS Urban Development Built Environments Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylorsds.com.au		SURVEYORS FILE REF: Ref. 02044-S7B Ver. 8 ORIGINAL SHEET SIZE: A3 SHEET 1 OF 10	
Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 8			

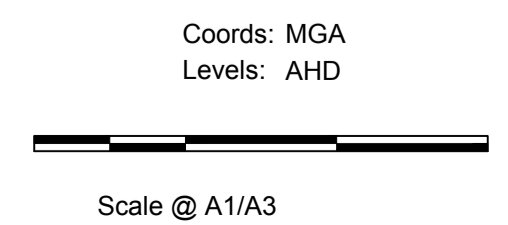
			PS740161W
EASEMENT INFORMATION			
LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road)			
* Support is defined as all necessary rights to provide structural support through foundations, supporting posts and concrete sleeper retaining walls and associated back of wall drainage infrastructure.			
Easement Reference	Purpose	Width (Metres)	Origin
E-1	Sewerage	3m	PS512193G
	Sewerage		PS527948T
E-2	Sewerage	3m	PS527948T
	Sewerage		
E-3	Drainage	2m	PS527948T
E-4	Sewerage	See Diagram	PS527948T
	Sewerage		
	Drainage		
E-5	Sewerage	3m	PS709369X
E-6	Drainage	5m	PS709369X
E-7	Sewerage	See Diagram	This Plan
	Drainage		
E-8	Support * See definition above	See Diag.	This Plan
E-9	Sewerage	See Diagram	This Plan
	Drainage		
	Support * See definition above		
E-10	Sewerage	0.5m	PS709369X
	Drainage		
	Support * See definition above		
E-11	Sewerage	See Diagram	PS709369X
	Drainage		
E-12	Support * See definition above	0.5m	PS709369X
TAYLORS Urban Development Built Environments Infrastructure 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168 Tel: 61 3 9501 2800 Web: taylorsds.com.au		ORIGINAL SHEET SIZE: A3 Ref. 02044-S7B Ver. 8 SHEET 2	
Licensed Surveyor: MARK JAMES SOMMERVILLE / Version No 8			

Drawing File: C:\24_Survey\1\2196-river valley - Stage 7B_11\Word\10\11196-POS01.dwg
 Date/Time: Thu Jun 07, 2018 - 10:08am --jacob.burns--

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REV	AMENDMENTS	DATE	APPD.

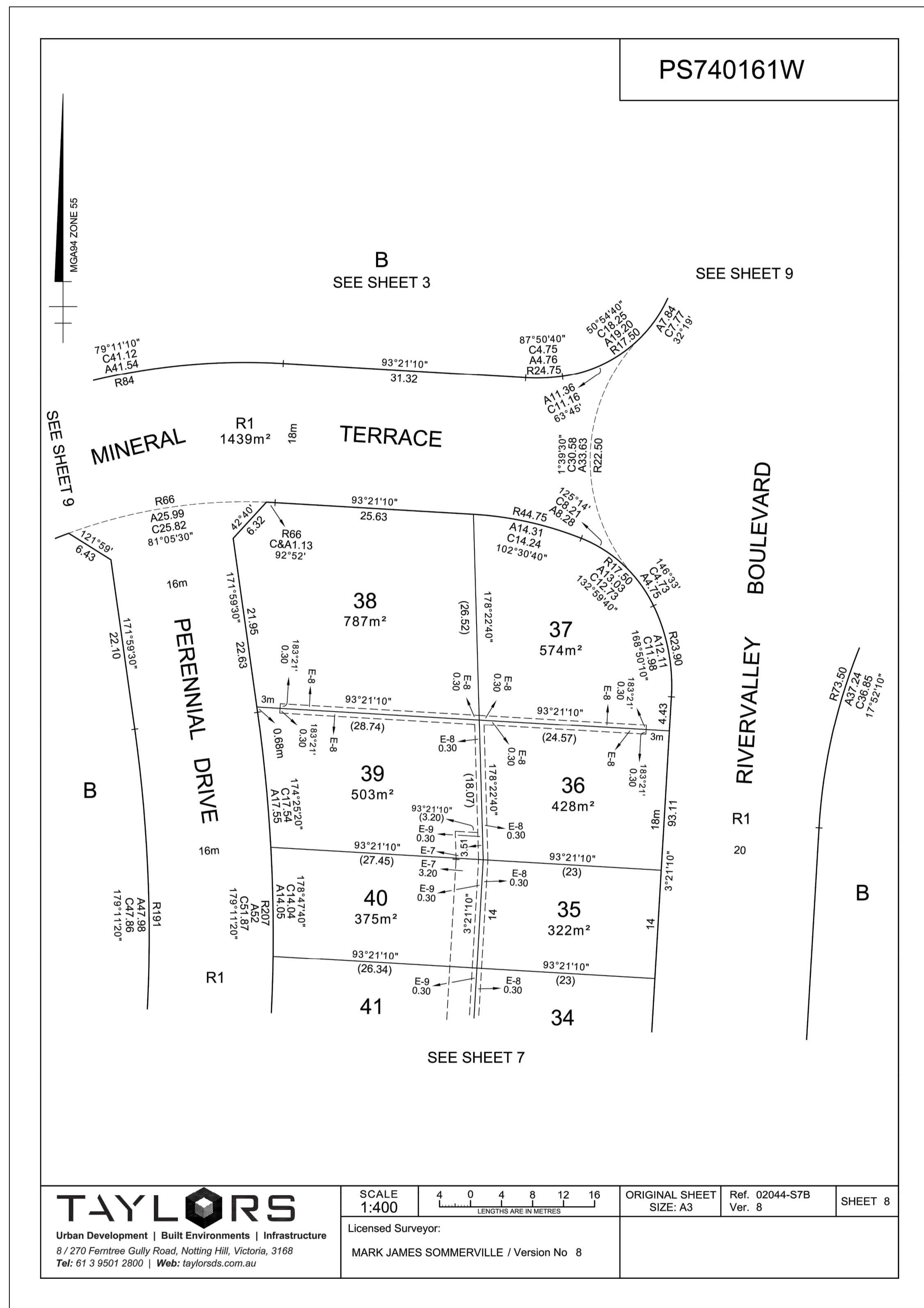
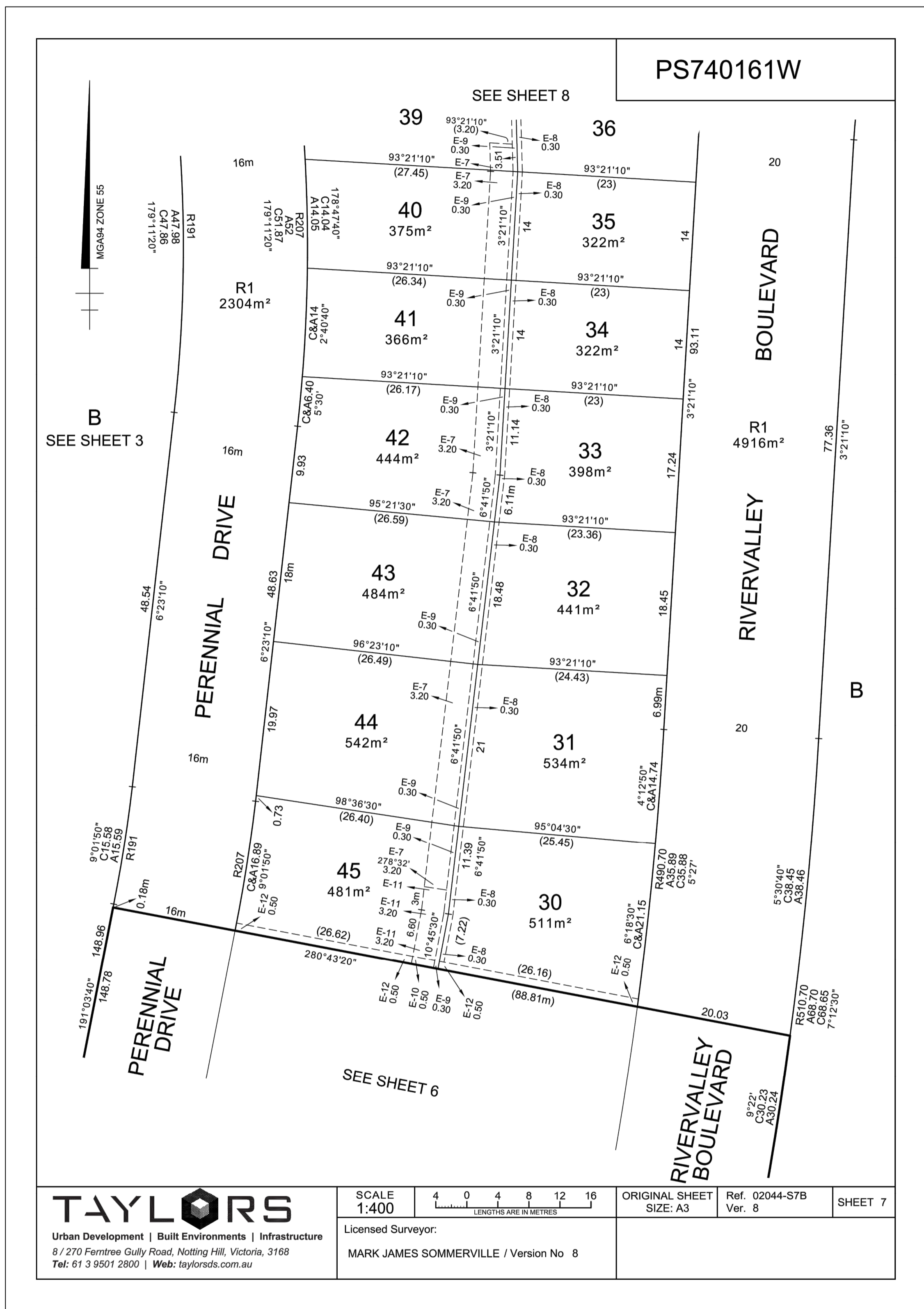
Drawn B.ADAMS
 Date 23/06/17
 AN 2591001
 Designed J.BURNS
 Date 23/06/17
 AN 1631517
 Verified T.THAVENDRAN
 Date 05/07/17
 AN 943830
 Audited R.MASON
 Date 29/01/18
 AN 705138
 Approved T.LIAKOPOULOS
 Date 01/02/18
 AN 888267

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



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 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 PLAN OF SUBDIVISION
 SHEET 01 OF 02
 Drawing No. 12196POS01 Rev 0
 Sheet No. 50 CONSTRUCTION
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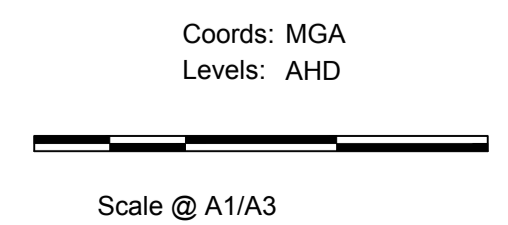
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 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 PLAN OF SUBDIVISION
 SHEET 02 OF 02
 Drawing No. 12196POS02 Rev 0
 Sheet No. 51 CONSTRUCTION
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FILL PLAN NOTES


THIS PLAN SHOWS DETAILS OF WORKS AFFECTING THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION WHICH HAVE BEEN CARRIED OUT OR ARE PROPOSED TO BE CARRIED OUT PRIOR TO REGISTRATION OF THE PLAN OF SUBDIVISION, BEING FILL PLACED ON THE LAND TO THE EXTENT AND DEPTH SHOWN ON THIS PLAN.

THIS PLAN DOES NOT SHOW ANY OTHER FILL WHICH MAY HAVE BEEN PLACED ON THE LAND PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.

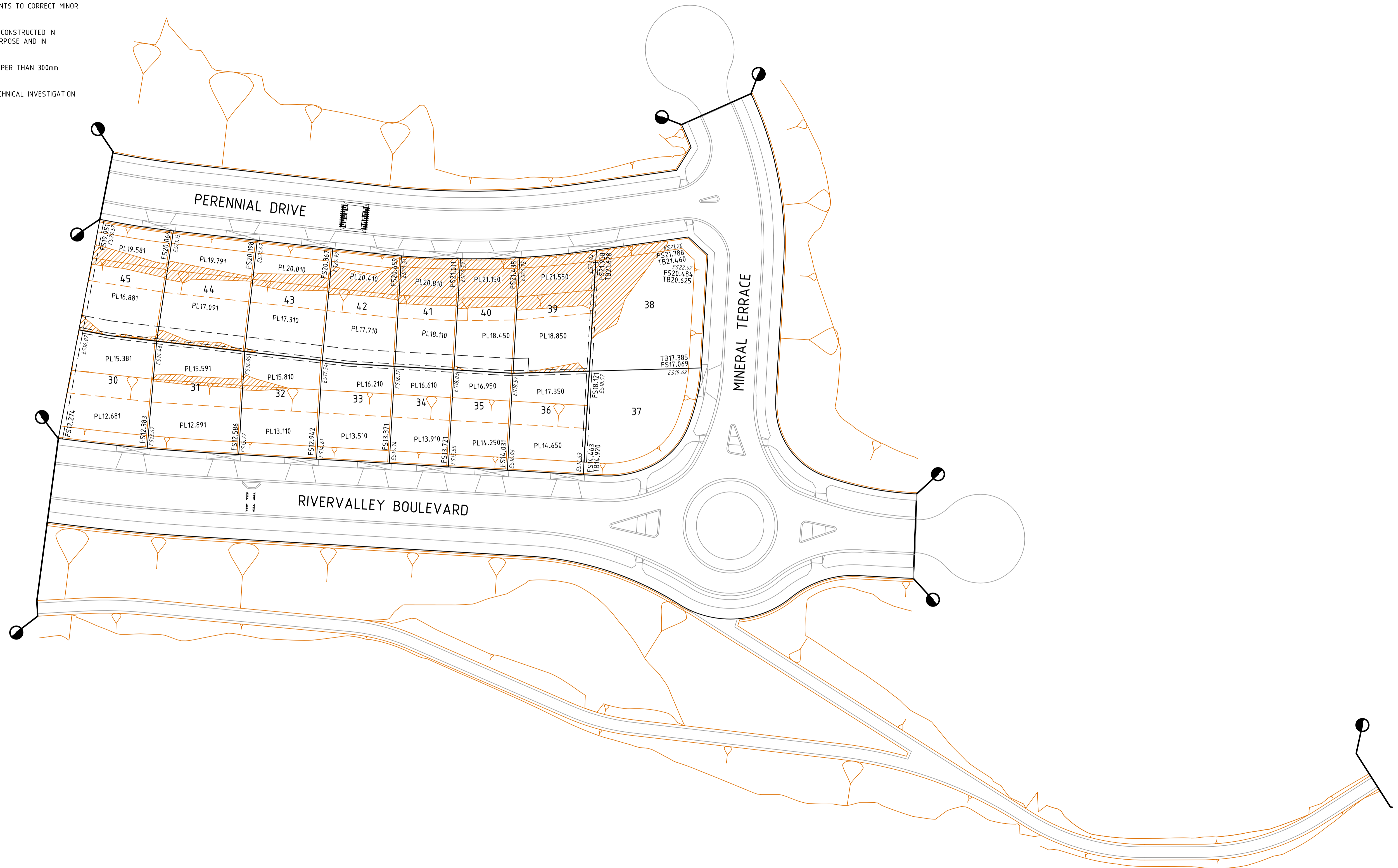
THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF CONSTRUCTING SUBDIVISIONAL WORKS AND IS NOT A RECORD OF 'AS BUILT DETAILS'.

FILLING SHOWN LESS THAN 300mm DEEP IS GRADED OR SPREAD OVER ALLOTMENTS TO CORRECT MINOR SURFACE IRREGULARITIES SUCH AS FURROWS ETC AND LOT GRADING.

IRRESPECTIVE OF THE DEPTH OF FILLING FOUNDATIONS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH A SOIL CLASSIFICATION AND REPORT PREPARED FOR THE PURPOSE AND IN ACCORDANCE WITH THE APPROPRIATE BUILDING REGULATIONS.

THE AREA MARKED THUS  ON THIS PLAN INDICATES FILL DEEPER THAN 300mm PLACED ON ALLOTMENTS.

THE EXTENT OF AND DEPTH OF FILL MUST BE CONFIRMED BY A PROPER GEOTECHNICAL INVESTIGATION BY AN EXPERIENCED PRACTITIONER.



Drawing File: C:\Users\jacob.burns\OneDrive\Documents\12196-river valley - Stage 7B_11\road\10\1000.dwg
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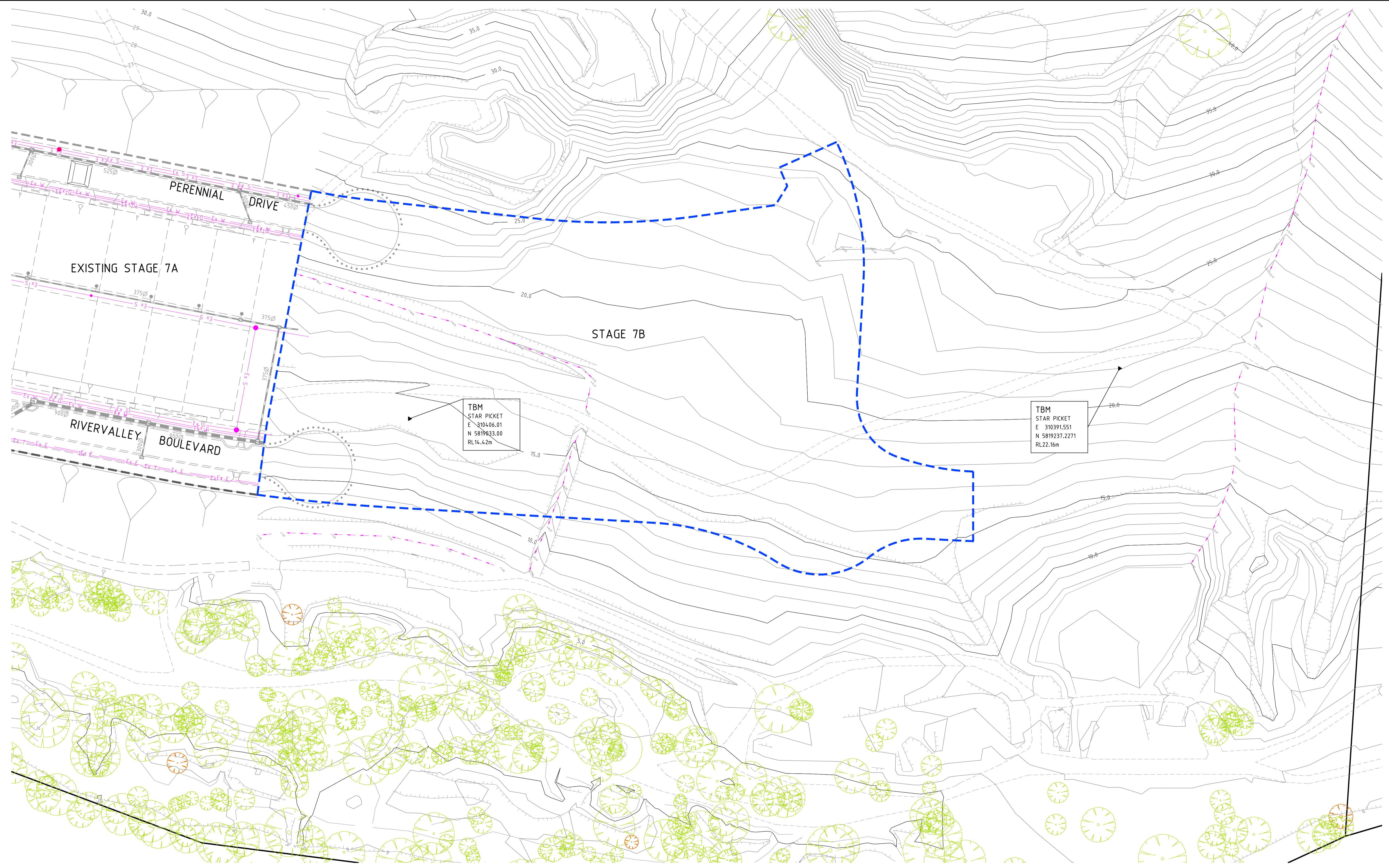
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Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7B
 SUNSHINE NORTH
 FILL PLAN
 Drawing No. 12196FP01 Rev 0
 Sheet No. 52 CONSTRUCTION
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- LEGEND**
- Ex W — EXISTING WATER MAIN
 - Ex G — EXISTING GAS MAIN
 - Ex E — EXISTING ELECTRICAL CABLE
 - Ex S — EXISTING SEWER MAIN & MANHOLE
 - Ex T — EXISTING TELECOMM. CABLE AND PIT
 - Ex P — EXISTING ELEC. POLE & O'HEAD LINES
 - Ex D — EXISTING STORMWATER DRAIN & PIT
 - 27.00 — EXISTING MAJOR CONTOUR
 - — EXISTING MINOR CONTOUR
 - EXISTING TREES
 - ▲ TEMPORARY BENCH MARK

RIVER VALLEY

 Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Scale @ A1/A3 1:500/1:1000

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RIVER VALLEY ESTATE - STAGE 7B
SUNSHINE NORTH
EXISTING FEATURES PLAN
 Drawing No. **12196EF01** Rev 0
 Sheet No. 53 **CONSTRUCTION**
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