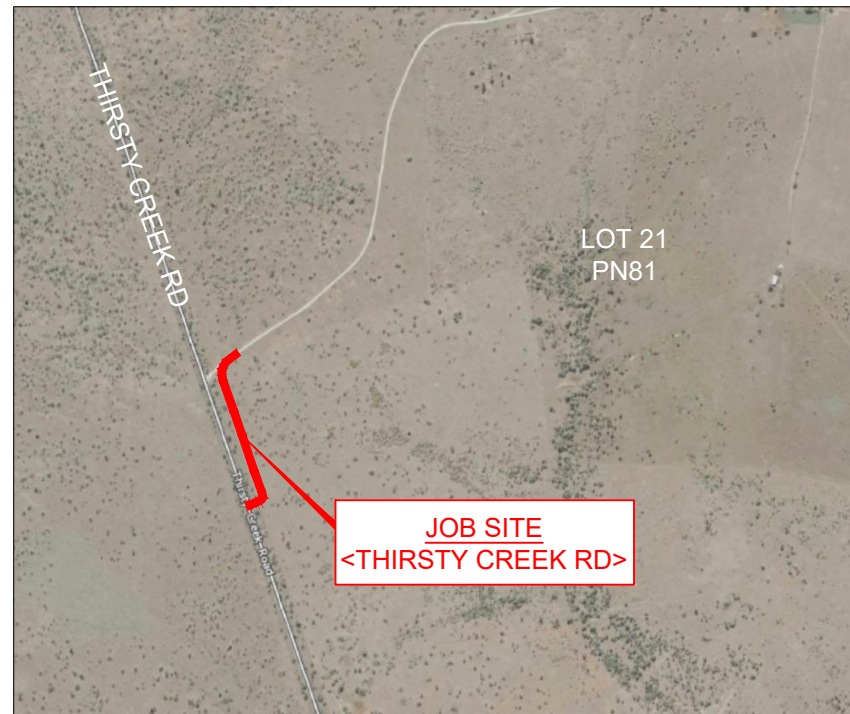


# THOMAS PLANT HIRE - QUARRY

## LOT 21 PN81 THIRSTY CREEK RD, GOGANGA Q

### PROPOSED INTERSECTION & ACCESS



LOCALITY PLAN  
NOT TO SCALE

#### PROPOSED INTERSECTION & ACCESS ROAD - 2021

DESIGN FILE No: CE21025  
DESIGN STANDARD: CMDG DESIGN GUIDELINES AUSTRROADS & TMR DESIGN GUIDELINES

#### DESIGN TRAFFIC

DESIGN VEHICLE: 19.0 TRUCK & DOG  
ROAD CLASSIFICATION: PRIVATE ACCESS  
PAVEMENT DESIGN LIFE: 40 YRS  
DESIGN SPEED: 10KM/H  
POSTED SPEED: N/A

#### STORMWATER/FLOOD DATA

ALL CULVERT THAT ARE TO BE REPLACED: DESIGNED TO ≥ ORIGINAL CAPACITY. NEW CULVERT STRUCTURES, COMPLY WITH THE FOLLOWING;  
CULVERT 'SAG' FLOW: Q20  
CULVERT 'ON GRADE' FLOW: Q10  
BLOCKAGE FACTOR: 0.5

#### GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS.
- BEFORE PROCEEDING WITH THE WORK ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE REFERRED FOR DECISION TO THE SUPERINTENDENT.
- DO NOT SCALE FROM DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL LOCATIONS OF SERVICES, ALL DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION.
- ALL MATERIALS/CONSTRUCTION & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND THE LOCAL AUTHORITY'S STANDARD DRAWINGS AND BY-LAWS.
- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL RELEVANT APPROVALS PRIOR TO COMMENCEMENT OF WORKS.
- UNDERGROUND SERVICE LOCATIONS SHOWN ON THIS PLAN HAVE BEEN DETERMINED BY FIELD SURVEY AND/OR OFFICE RECORDS, AND MAY NOT REPRESENT ALL SERVICES OR EXACT LOCATIONS. THE CONTRACTOR MUST ACCURATELY LOCATE AND DEPTH ALL SERVICES LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, PRIOR TO COMMENCING ANY EXCAVATION WORKS.
- DISPERSIVE SOILS ARE NOT TO BE USED AS FILL/EMBANKMENT MATERIAL. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH CURRENT RMS SPECIFICATIONS AND TECHNICAL STANDARDS.

#### CONSTRUCTION SPECIFICATIONS

CMDG CONSTRUCTION SPECIFICATIONS:  
C201 CONTROL OF TRAFFIC  
C202 RURAL ROAD CLEAR ZONES  
C211 CONTROL OF SEDIMENT & EROSION  
C212 CLEARING & GRUBBING  
C213 EARTHWORKS  
C220 STORMWATER DRAINAGE  
C221 PIPE DRAINAGE SPECIFICATION  
C223 DRAINAGE SPECIFICATIONS  
C224 OPEN DRAINS  
C242 FLEXIBLE PAVEMENTS  
C244 SPRAYED BITUMINOUS SURFACING  
C265 BOUNDARY FENCING

#### STANDARD DRAWINGS

CMDG-G-010 FOUR & SIX BARBED WIRE FENCING  
CMDG-G-018 STANDARD COUNCIL GRID  
CMDG-R-040 RURAL ROADS ACCESS AND PROPERTY ACCESS OVER TABLE DRAINS  
CMDG-D-010 EXCAVATION, BEDDING AND BACKFILLING OF CONCRETED/REINFORCED FIBRE DRAINAGE PIPES  
CMDG-D-011 EXCAVATION, BEDDING AND BACKFILLING OF PRECAST BOX CULVERTS  
CMDG-D-050 SEDIMENT CONTROL DEVICES SEDIMENT FENCE ENTRY EXIT SEDIMENT TRAP  
CMDG-D-051 SEDIMENT CONTROL DEVICES, KERB AND FIELD INLETS, CHECK DAMS & STRAW BALE BANK

#### DRAWING SCHEDULE

DOCUMENT TITLE	DOCUMENT NO.
COVER SHEET, LOCALITY PLAN & DRG. SCHEDULE	CE21025-001-CO
GENERAL DETAILS PLAN	CE21025-101-GD
ALIGNMENT CONTROL	CE21025-201-AL
GENERAL ARRANGEMENT	CE21025-301-GA
GENERAL ARRANGEMENT - SWEEP PATH	CE21025-302-GA
LONGITUDINAL SECTION	CE21025-401-LS
CROSS SECTIONS SHEET 1 OF 4	CE21025-501-XS
CROSS SECTIONS SHEET 2 OF 4	CE21025-502-XS
CROSS SECTIONS SHEET 3 OF 4	CE21025-503-XS
CROSS SECTIONS SHEET 4 OF 4	CE21025-504-XS
DRAINAGE PLAN	CE21025-701-DR

#### ROCKHAMPTON REGIONAL COUNCIL

#### APPROVED PLANS

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Development Permit No: **D141-2020**

Dated: **17 May 2021**

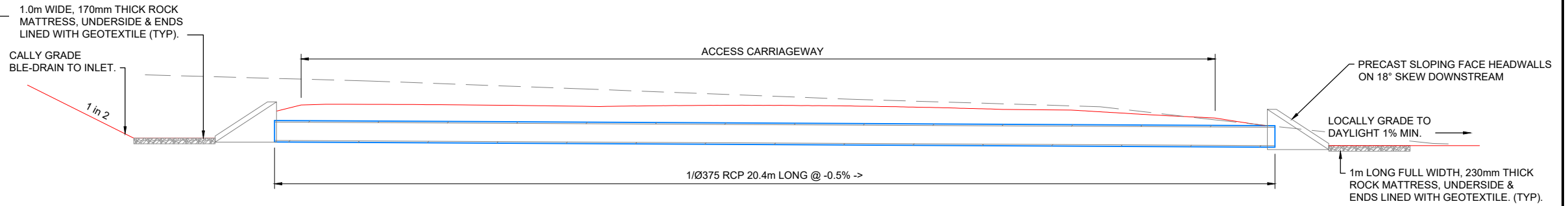
DETAIL SURVEY BY:  
ACCIONA CONSTRUCTION AUST. - DATE SURVEYED  
29/03/21 SURVEY: MGA20 ZONE 56  
STANDARD DRAWINGS:  
CMDG STANDARD DESIGN DRAWINGS & GUIDELINES /  
AR&R GUIDELINES / INSTITUTE OF PUBLIC WORKS  
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	A	LM	AB									

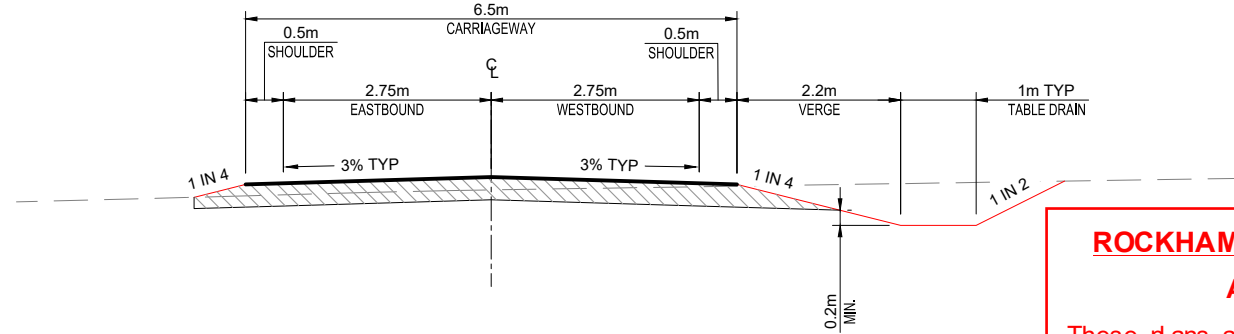
# GENERAL LEGEND

- Existing Boundary
- Existing Fence Line
- Existing Top of Batter
- Existing Toe of Batter
- Existing Road Shoulder
- Existing Road Centre line
- Existing to be Demolished
- Existing Surface Contours
- Design Surface Contours
- Proposed Fence line
- Proposed Road Centre Line
- Proposed Sealed Pavement
- Proposed Edge of Unsealed Pavement
- Proposed Top of Batter
- Proposed Ground Interface
- Proposed Table Drain
- Proposed Dumped Rock
- Proposed Rock Mattress



**TYPICAL CULVERT 01 SECTION**

SCALE 1:100



**TYPICAL ACCESS CROSS-SECTION**

SCALE 1:100

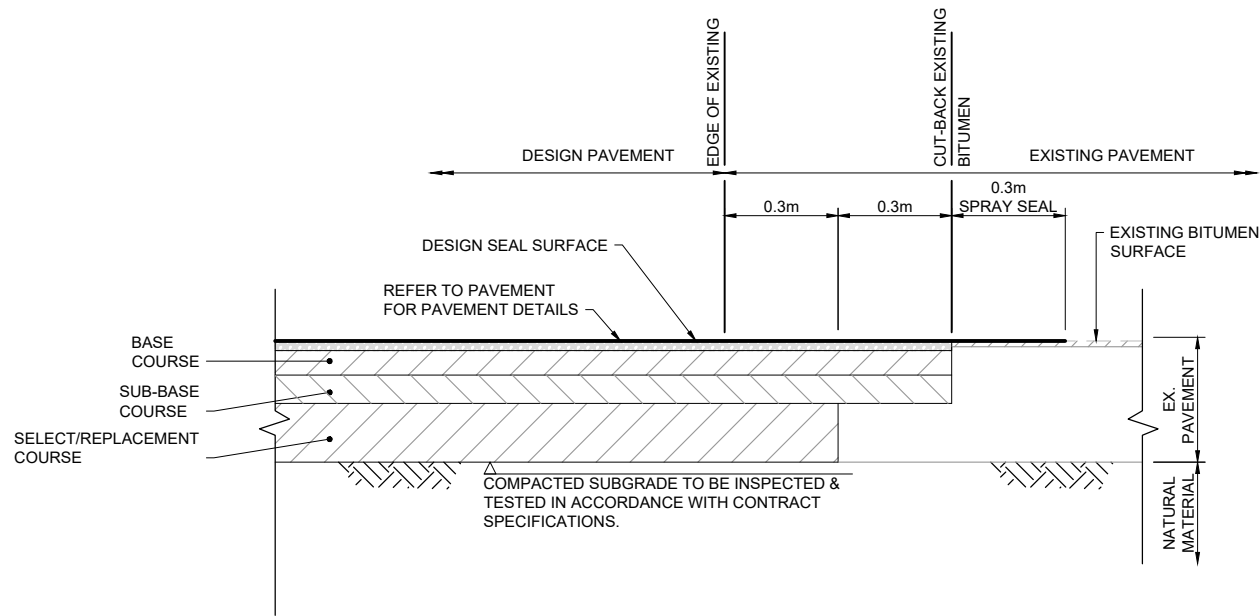
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**Dated: 17 May 2021**



**TYPICAL PAVEMENT TIE-IN DETAIL**

SCALE N.T.S

**GENERAL:**

1. ALL DIMENSIONS IN MILLIMETERS.
2. BEDDING TO CONFORM TO CMDG, C220 STORMWATER DRAINAGE & C221 PIPE DRAINAGE SPECIFICATIONS.
4. COMPACT AND EVENLY GRADE FINISHED TRENCH FLOOR.
5. EMBEDMENT, TRENCH FILL AND COMPACTION TO MEET THE REQUIREMENT OF CMDG, C220 STORMWATER DRAINAGE & C221 PIPE DRAINAGE SPECIFICATIONS.
6. USE GEOTEXTILE FILTER FABRIC WHERE SPECIFIED.
7. SIDES OF EXCAVATION TO BE KEPT VERTICAL TO AT LEAST 150 ABOVE THE PIPE

**PAVEMENT:**

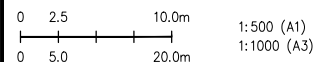
1. ALL PAVEMENT PROFILES ARE SUBJECT TO SUBGRADE TESTING OF ALL AREAS PRIOR TO COMMENCING WORKS AND APPROVED BY PRINCIPALS SUPERINTENDENT.
2. PROPOSED ROAD/HARDSTAND ALIGNMENT TO BE STRIPPED TO REMOVE ALL VEGETATION AND TOPSOIL.
3. THE EXPOSED SUBGRADE SHOULD BE RIPPED AND RECOMPACTED TO A DEPTH OF 0.3m AND PROOF ROLLED.
4. ANY WET OR EXCESSIVE DEFLECTING MATERIAL IS TO BE OVER-EXCAVATED AND BACK FILLED WITH SELECT GRANULAR MATERIAL TO CBR OF > 15% AND PI < 15.
5. APPROVED FILL IN LAYERS NOT EXCEEDING 0.15m LOOSE THICKNESS AND COMPACTED TO Min. 98% STANDARD COMPACTION.
6. CLAY SUBGRADE FILL PLACED AND MAINTAINED AT 60% TO 90% OF OPTIMUM MOISTURE CONTENT.
7. THE TOP 0.3m OF FILLED SUBGRADE TO BE COMPACTED TO Min. DENSITY RATIO OF 100% STANDARD COMPACTION OR EQUIVALENT WITHIN ABOVE STATED MOISTURE RANGE.
8. SUB-BASE AND BASE MATERIALS TO BE PLACED IN LAYERS NO GREATER THAN 0.2m THICKNESS AND TO A Min. DENSITY RATIO OF 95% TO 98% MODIFIED COMPACTION RESPECTIVELY AND MAINTAINED AT 60% TO 90% OF OPTIMUM MOISTURE CONTENT.

**THIRSTY CREEK QUARY - INTERSECTION/ACCESS SEAL & PAVEMENT DESIGN:**

AREA	CH (km)	ASSUMED SUBGRADE CBR	DESIGN	SURFACE SEAL	BASE COURSE (TYPE 2.5)	SUBBASE (TYPE 3.5)	SUBGRADE (TYPE 4.5)	SELECT FILL	TOTAL PAVEMENT THICKNESS
1	0.000-14.85	5	NEW CONSTRUCTION	REFER BELOW	150mm	150mm	180mm MIN CBR 15	CBR 15 AS REQ'D	480mm
2	14.85-15.1	5	NEW CONSTRUCTION	UN-SEALED	150mm	150mm	180mm MIN CBR 15	CBR 15 AS REQ'D	480mm

**SEAL SPECIFICATIONS:**

- 14mm SEAL - (S15E) 1.3L/m<sup>2</sup> @ 136m<sup>2</sup>/m<sup>3</sup>
- 7mm PRIMER SEAL - AMC0 1.1L/m<sup>2</sup> @ 238m<sup>2</sup>/m<sup>3</sup>



<p>ISSUE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>FIRST ISSUE</th> <th>CALCS DRAWN</th> <th>DATE</th> </tr> <tr> <td>A</td> <td>LM AB</td> <td>04/21</td> </tr> <tr> <td>B</td> <td>LM AB</td> <td>12/04/21</td> </tr> </table>	FIRST ISSUE	CALCS DRAWN	DATE	A	LM AB	04/21	B	LM AB	12/04/21	<p>DESIGN CHECK</p> <p><i>lm</i></p> <p>DRAWN CHECK</p> <p><i>AB</i></p>	<p>COPYRIGHT</p> <p>© MOLONEY SOLUTIONS PTY LTD 2019</p> <p>These designs and drawings are copyright and are not to be used or reproduced without the written permission of the above. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing. Verify dimensions prior to commencing any works.</p>	<p>DATUM</p> <p>PROJECT No.</p> <p><b>CE21025</b></p>	<p>ISSUED FOR APPROVAL</p> <p>APPROVED</p> <p><i>[Signature]</i></p> <p>RPEQ 7637</p> <p>FOR &amp; ON BEHALF OF MOLONEY &amp; SONS ENGINEERING</p>	<p>CLIENT</p> <p><b>THOMAS PLANT HIRE</b></p> <p>PROJECT</p> <p><b>THIRSTY CREEK ROAD</b></p>	<p><b>MOLONEY &amp; SONS ENGINEERING</b></p> <p>EXCELLENCE - INTEGRITY - INNOVATION</p> <p>P.O. Box 3203 RED HILL ROCKHAMPTON, Q 4701</p> <p>www.moloneyandsons.com.au</p> <p>ROCKHAMPTON • GLADSTONE • ROMA • MILES • CHINCHILLA • BRISBANE</p> <p>GOLD COAST • COFFS HARBOUR • SYDNEY</p>	<p>DRAWING TITLE</p> <p><b>GENERAL DETAILS PLAN</b></p> <p>DRAWING NUMBER</p> <p><b>CE21025-101-GD</b></p> <p>ISSUE</p> <p><b>A</b></p>
FIRST ISSUE	CALCS DRAWN	DATE														
A	LM AB	04/21														
B	LM AB	12/04/21														



EXISTING GRID TO BE REMOVED FROM SITE AND BOUNDARY FENCE REINSTATED TO MATCH EXIST.

CH 340  
CH 360  
TP 344.352

CH 320

TP 307.897  
CH 300

CH 280

CH 260

CH 240

CH 220

CH 200

CH 180

CH 160

CH 140

CH 120

CH 100

CH 80

CH 60

TP 48.506

CH 40

TP 22.344

CH 20

CH 0

THIRSTY CREEK ROAD

SHOONER RD

LIMIT OF WORKS

EX ACCESS RD

PROPOSED ACCESS CORRIDOR

EXIST. FENCE TO BE REMOVED TO MAKE WAY FOR PROPOSED ACCESS

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**Dated: 17 May 2021**

Set Out Table for MC02

TAG		CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
L3	BP	0.000	196917.630	7388295.626	22.344		070° 31' 34"
	EP	22.344	196938.696	7388303.075			
C2	TP	22.344	196938.696	7388303.075	26.162	16.7	025° 38' 49.06"
	IP	38.974	196954.375	7388308.619			
	TP	48.506	196948.897	7388324.321			
L1	BP	48.506	196948.897	7388324.321	259.390		340° 46' 04"
	EP	307.897	196863.455	7388569.235			
C1	TP	307.897	196863.455	7388569.235	46.455	35.0	018° 47' 31.22"
	IP	335.265	196854.440	7388595.076			
	TP	354.352	196877.345	7388610.056			
L2	BP	354.352	196877.345	7388610.056	9.475		056° 48' 58"
	EP	363.827	196885.275	7388615.242			

0 5.0 20.0m 1:1000 (A1)  
0 10.0 40.0m 1:2000 (A3)

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DATUM

PROJECT No. **CE21025**

ISSUED FOR APPROVAL

APPROVED *[Signature]* RPEQ 7637

FOR & ON BEHALF OF MOLONEY & SONS ENGINEERING

CLIENT **THOMAS PLANT HIRE**

PROJECT **THIRSTY CREEK ROAD**

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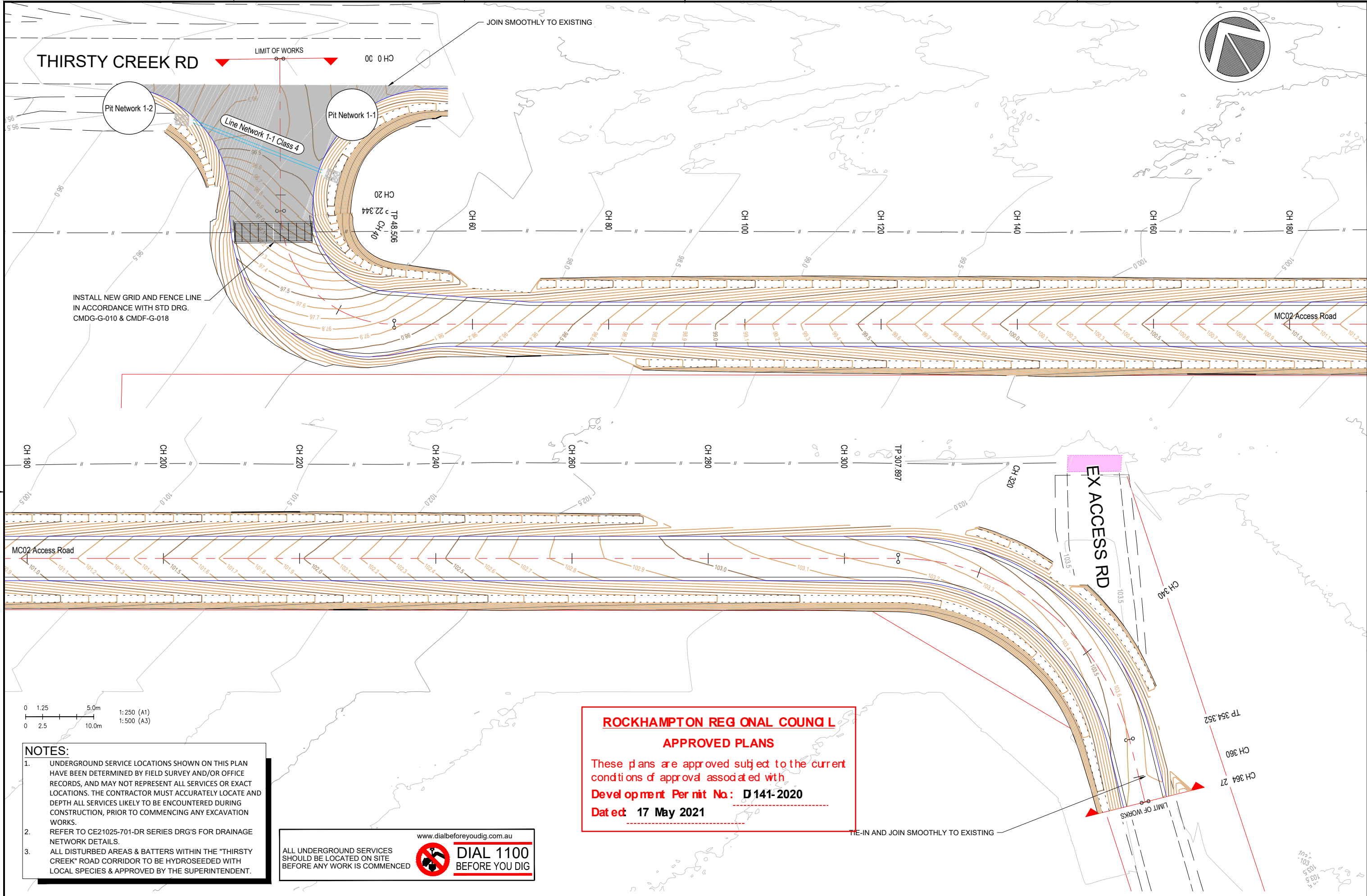
DRAWING TITLE **ALIGNMENT CONTROL**

DRAWING NUMBER **CE21025-201-AL**

ISSUE **A**

**THIRSTY CREEK RD**

JOIN SMOOTHLY TO EXISTING



- NOTES:**
- UNDERGROUND SERVICE LOCATIONS SHOWN ON THIS PLAN HAVE BEEN DETERMINED BY FIELD SURVEY AND/OR OFFICE RECORDS, AND MAY NOT REPRESENT ALL SERVICES OR EXACT LOCATIONS. THE CONTRACTOR MUST ACCURATELY LOCATE AND DEPTH ALL SERVICES LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, PRIOR TO COMMENCING ANY EXCAVATION WORKS.
  - REFER TO CE21025-701-DR SERIES DRG'S FOR DRAINAGE NETWORK DETAILS.
  - ALL DISTURBED AREAS & BATTERS WITHIN THE "THIRSTY CREEK" ROAD CORRIDOR TO BE HYDROSEEDED WITH LOCAL SPECIES & APPROVED BY THE SUPERINTENDENT.

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A	LM AB	04/21	PRELIMINARY ISSUE
	LM AB	12/04/21	

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DATUM: PROJECT No. **CE21025**

ISSUED FOR APPROVAL

APPROVED: *Thomas* RPEQ 7637

FOR & ON BEHALF OF MOLONEY & SONS ENGINEERING

CLIENT: **THOMAS PLANT HIRE**

PROJECT: **THIRSTY CREEK ROAD**

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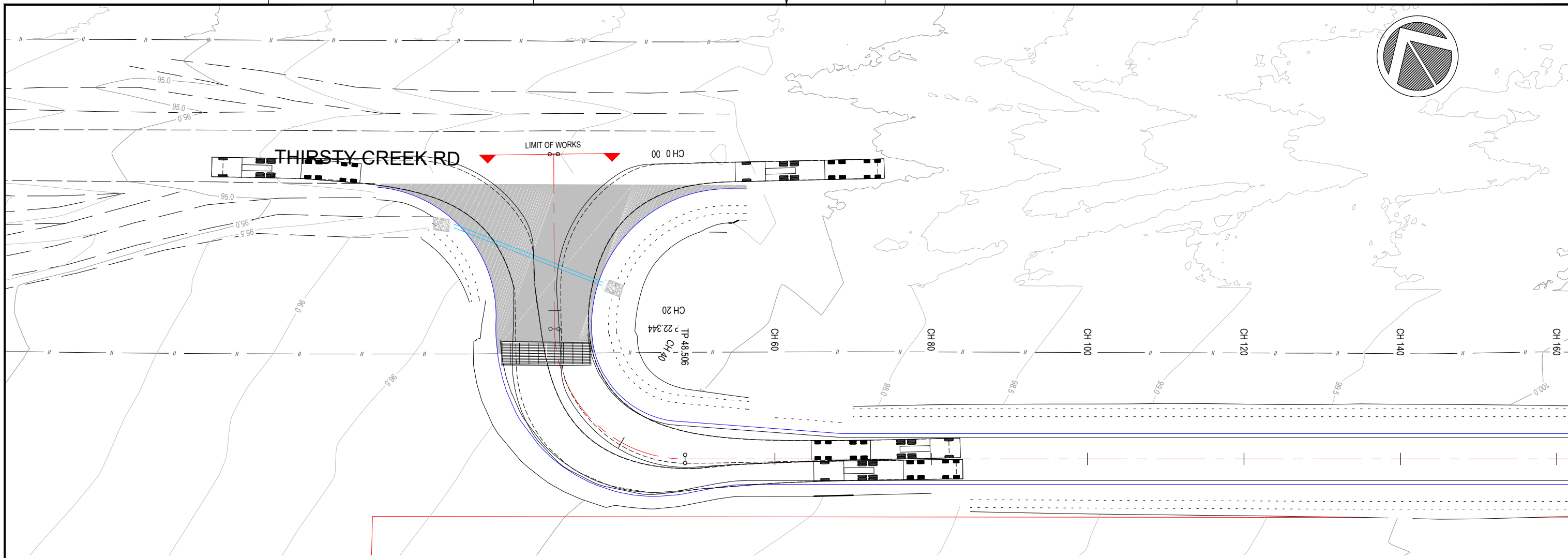
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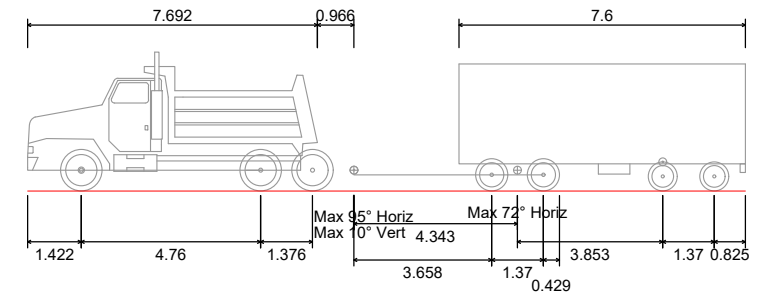
DRAWING TITLE: **GENERAL ARRANGEMENT**

DRAWING NUMBER: **CE21025-301-GA**

ISSUE: **A**



PROPOSED VEHICLE SWEEP-PATHS  
SCALE 1:500



VEHICLE PROFILE - Truck & Dog

SERVICE VEHICLE	(19.0 m)
OVERALL LENGTH	19.00m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	3.684m
MIN BODY GROUND CLEARANCE	0.429m
TRACK WIDTH	2.470m
LOCK-TO-LOCK TIME	6.00s
CURB TO CURB TURNING RADIUS	16.700m

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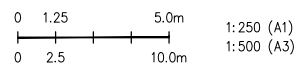
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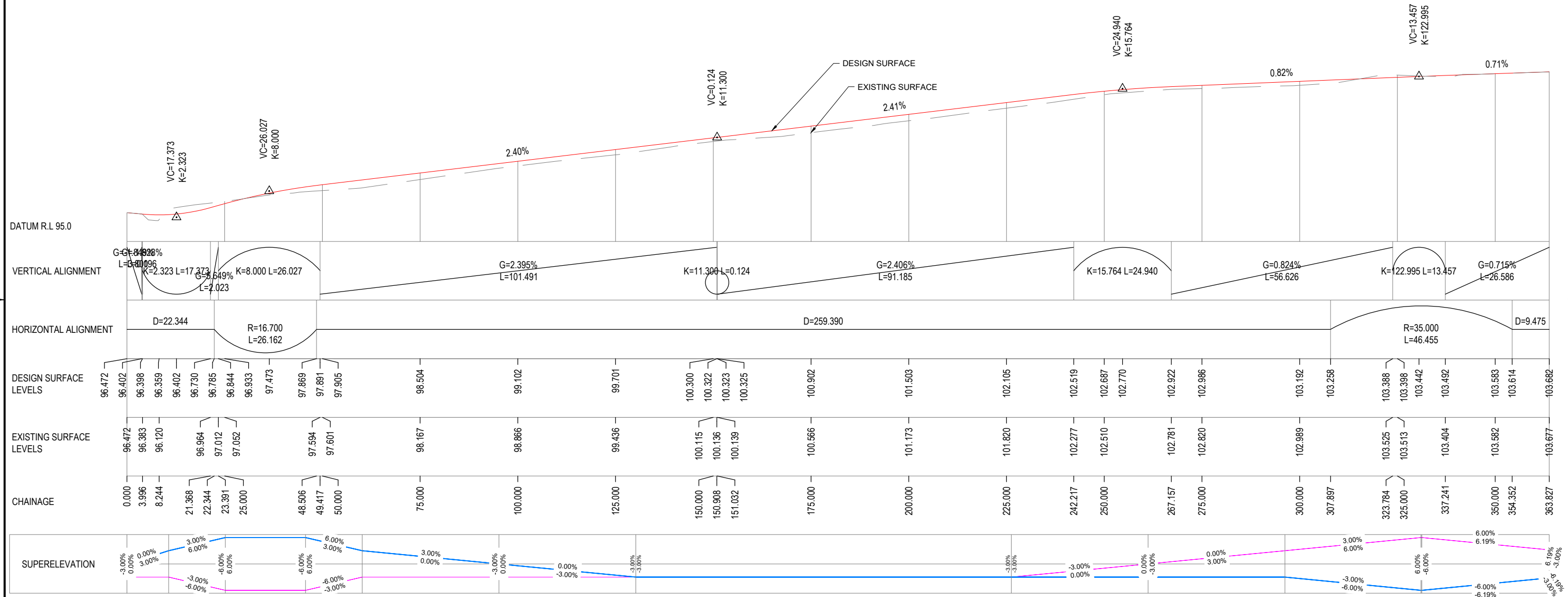


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	LM	AB	04/21							
A	LM	AB	12/04/21		DRAWN CHECK <i>AB</i>					

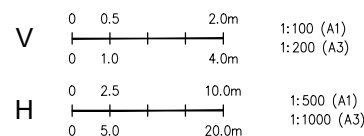
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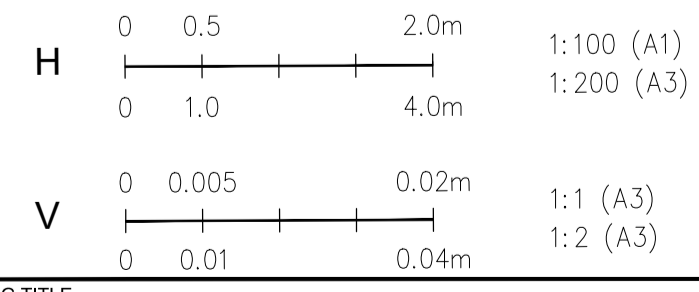
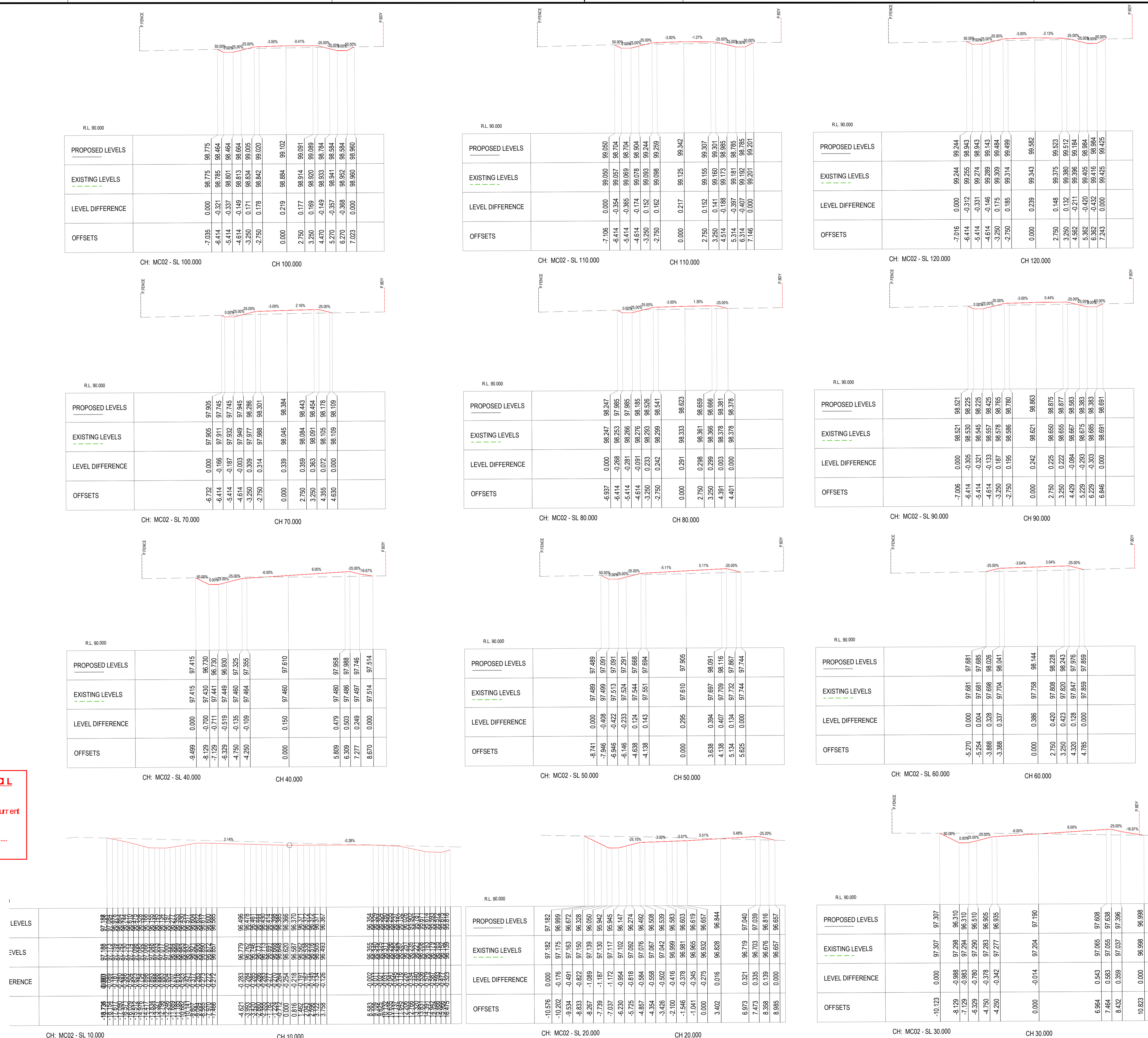
LONGITUDINAL SECTION - MC02  
 SCALE - HORIZ 1:200,000, VERT. 1:40,000



FIRST ISSUE	LM	AB	04/21	AMENDMENT DETAILS	DESIGN CHECK	COPYRIGHT MOLONEY SOLUTIONS PTY LTD 2019	DATING	CLIENT THOMAS PLANT HIRE	CLIENT THIRSTY CREEK ROAD	DRAWING TITLE LONGITUDINAL SECTIONS
	LM	AB	12/04/21							



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LM	AB	04/21	
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AMENDMENT DETAILS

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JAS ANZ ISO 9001

DATUM

PROJECT No. CE21025

ISSUED FOR APPROVAL

APPROVED: *Thomas Plant* RPEQ 7637

FOR & ON BEHALF OF MOLONEY & SONS ENGINEERING

CLIENT

THOMAS PLANT HIRE

PROJECT

THIRSTY CREEK ROAD

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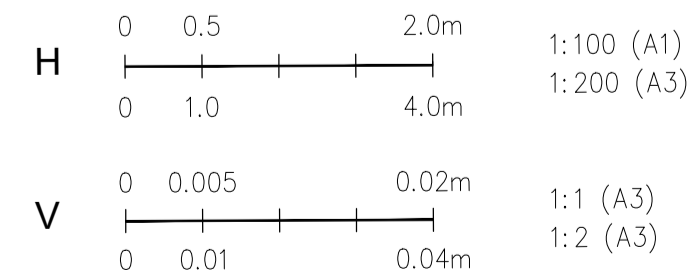
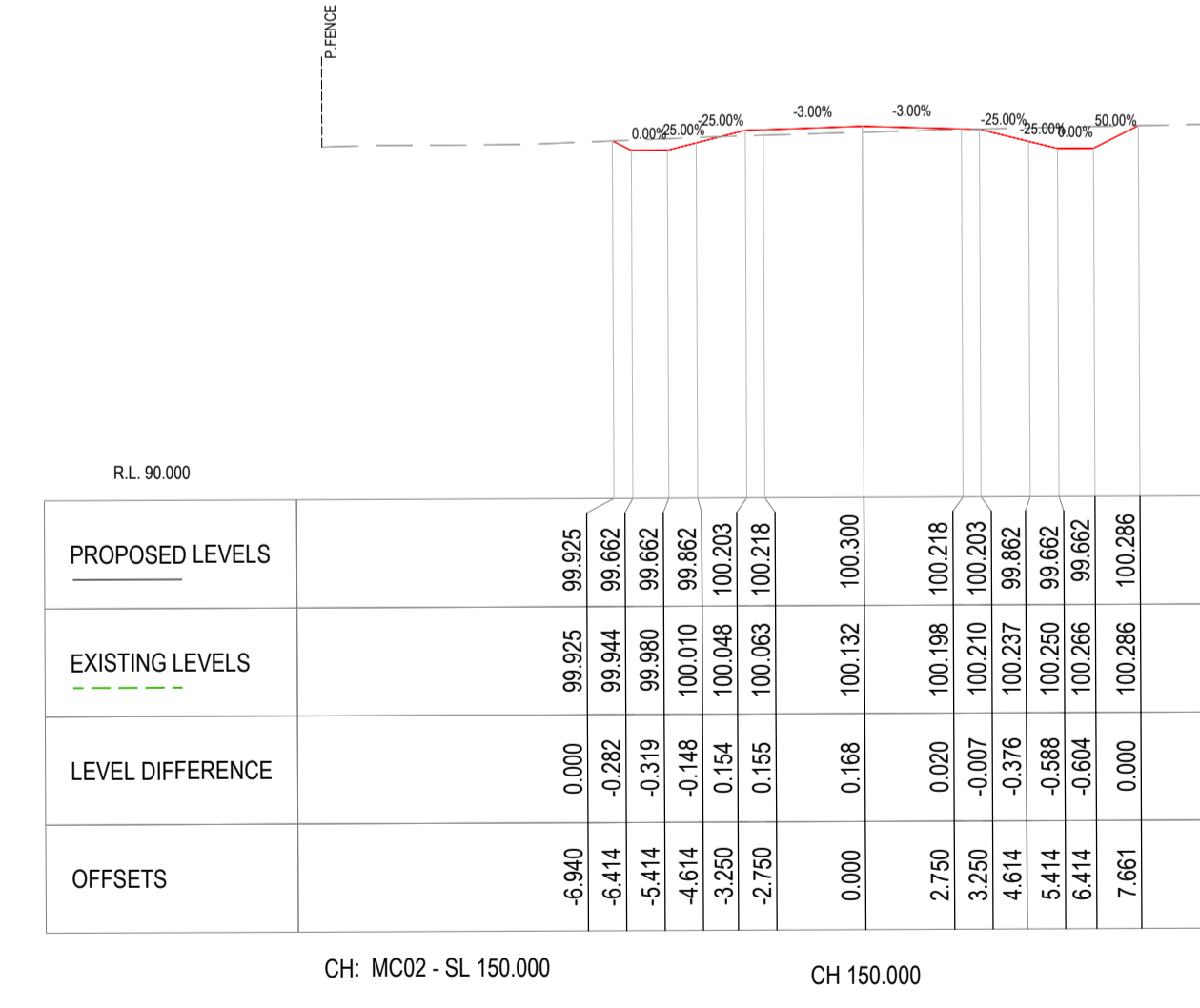
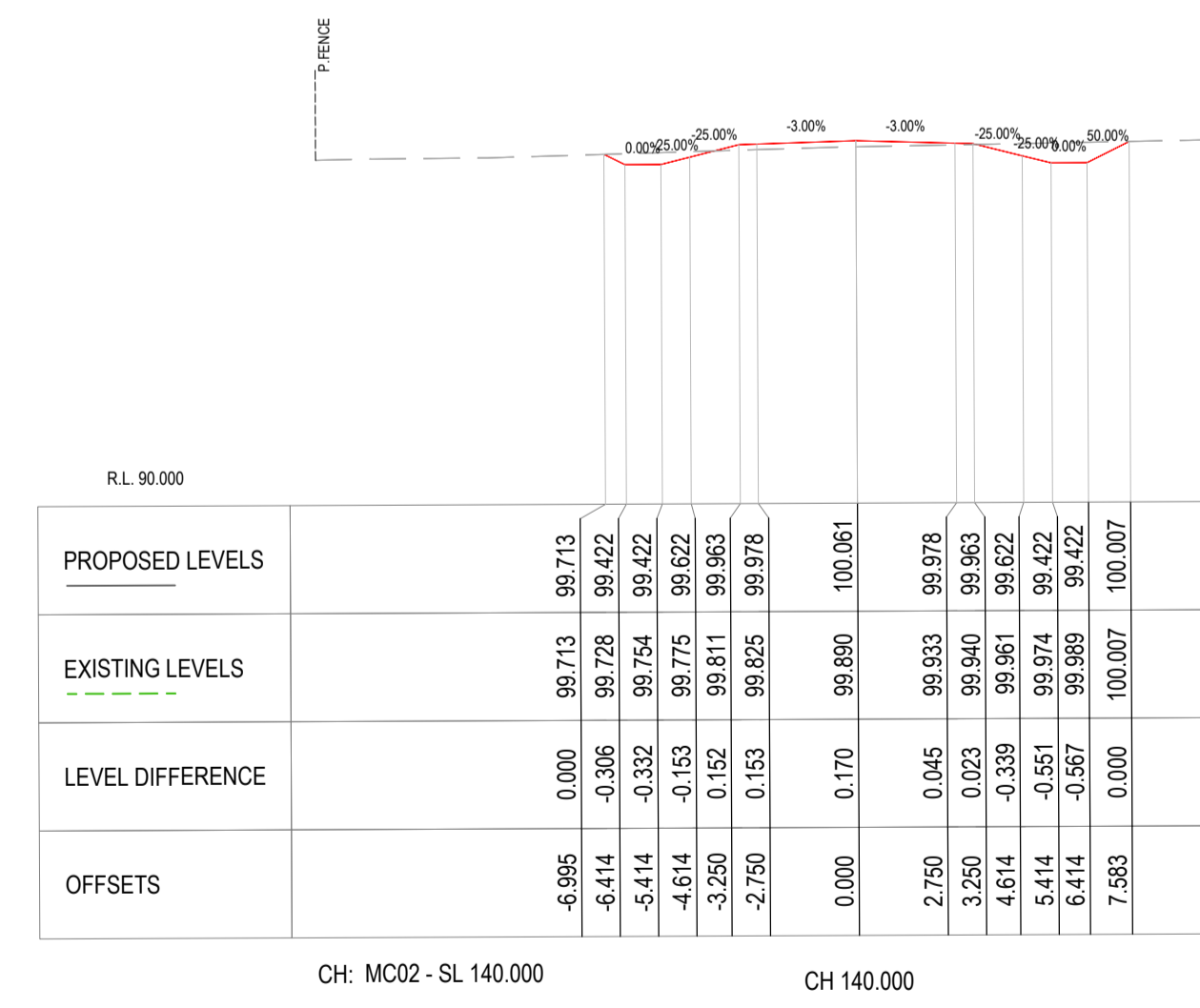
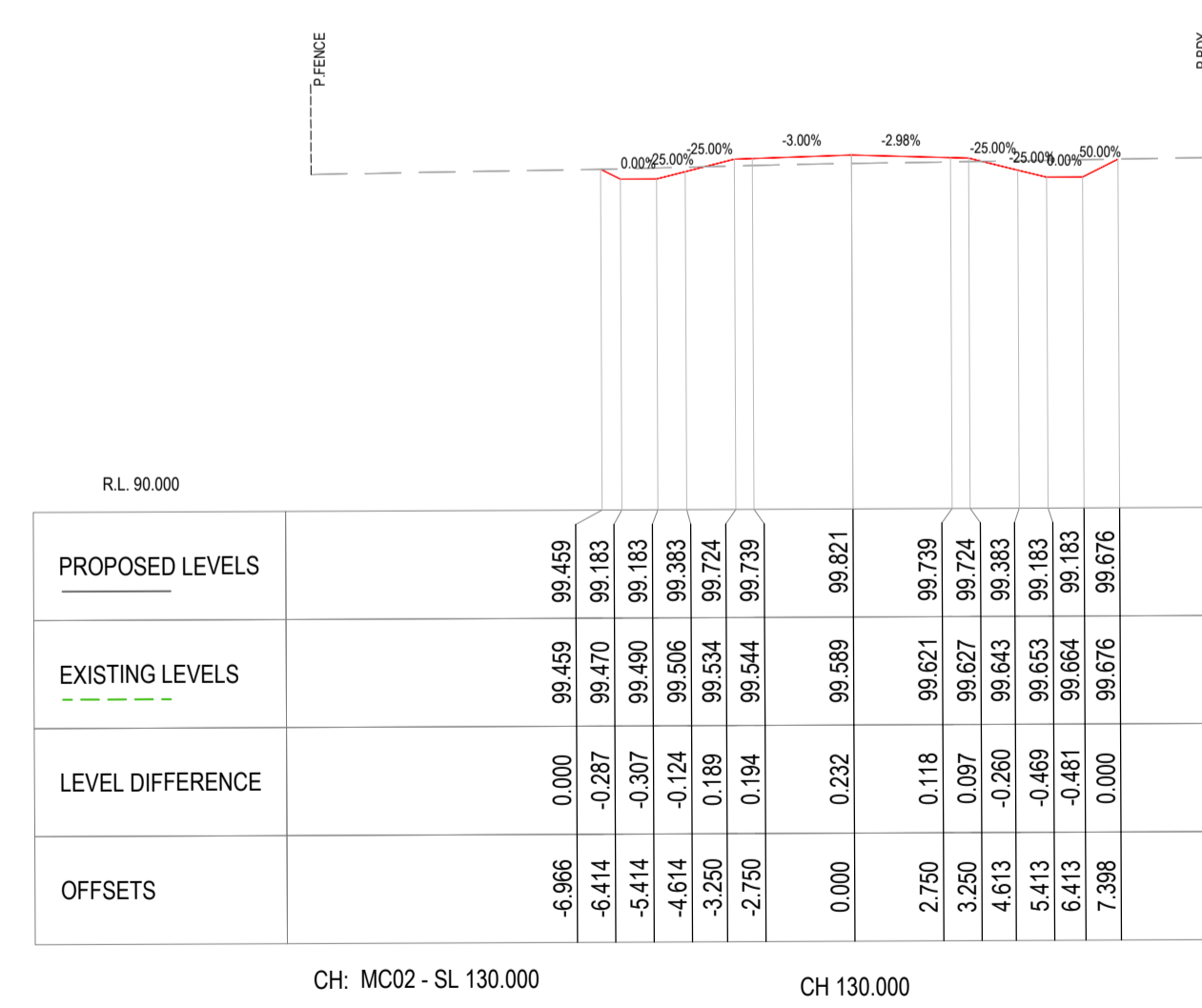
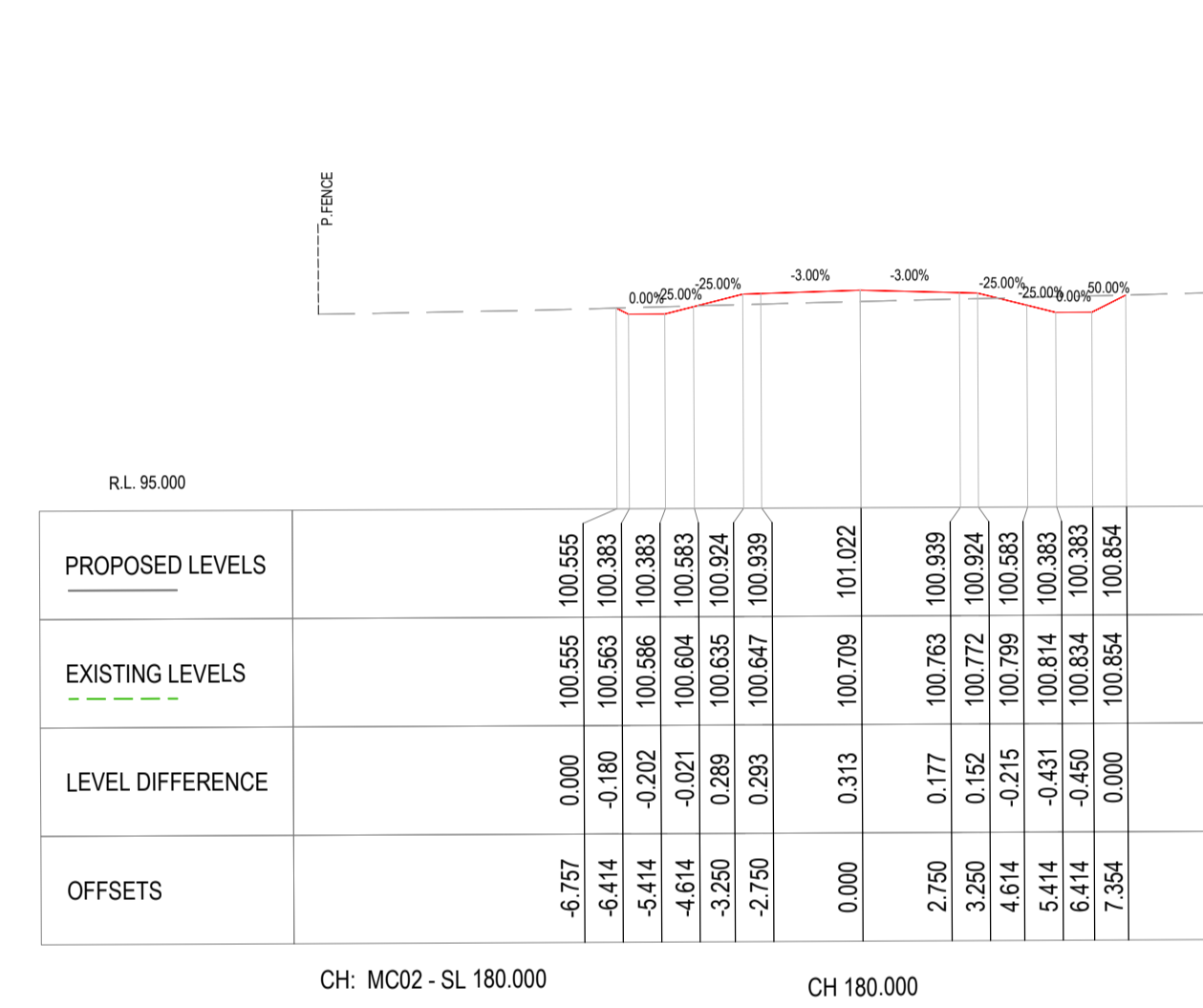
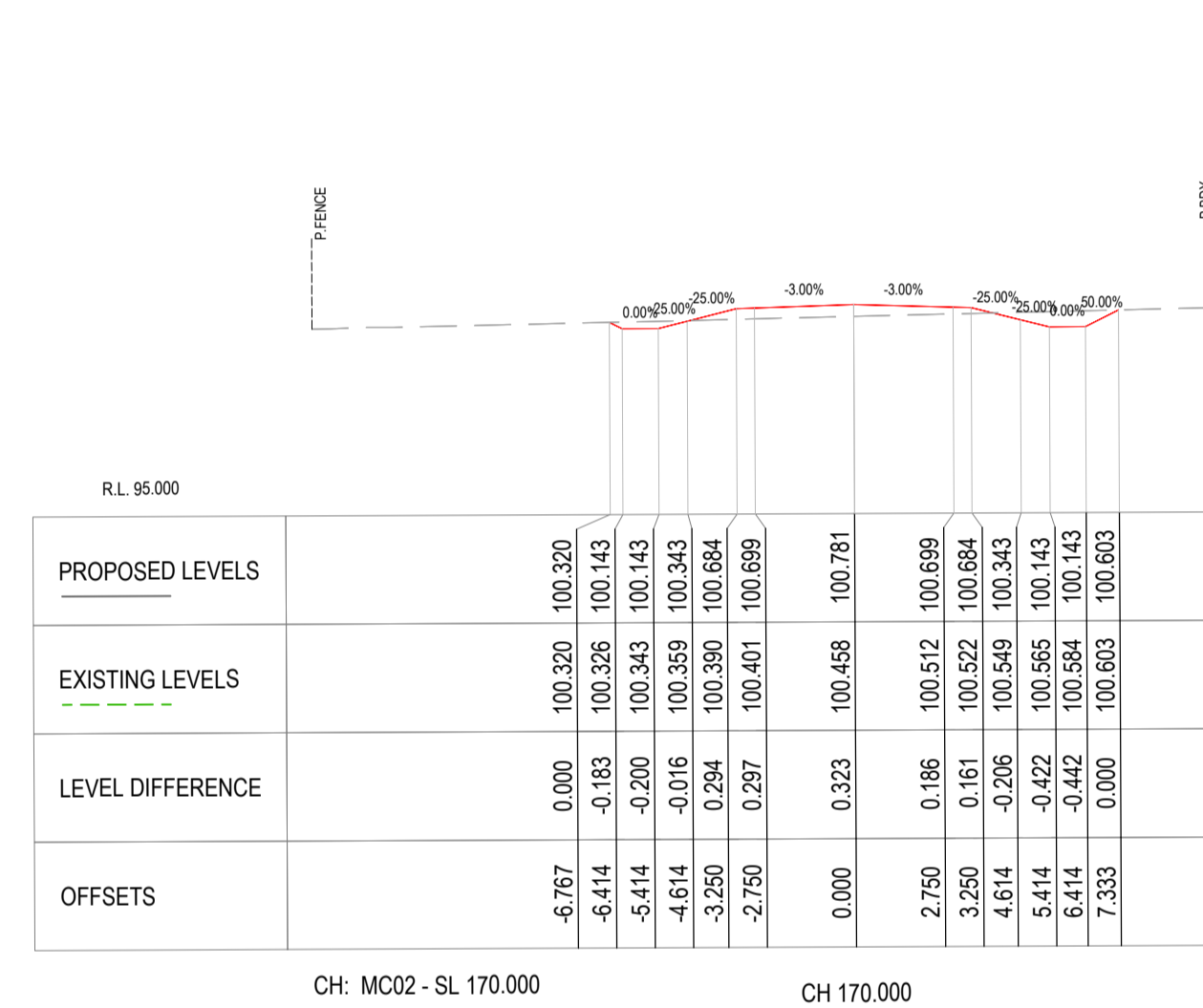
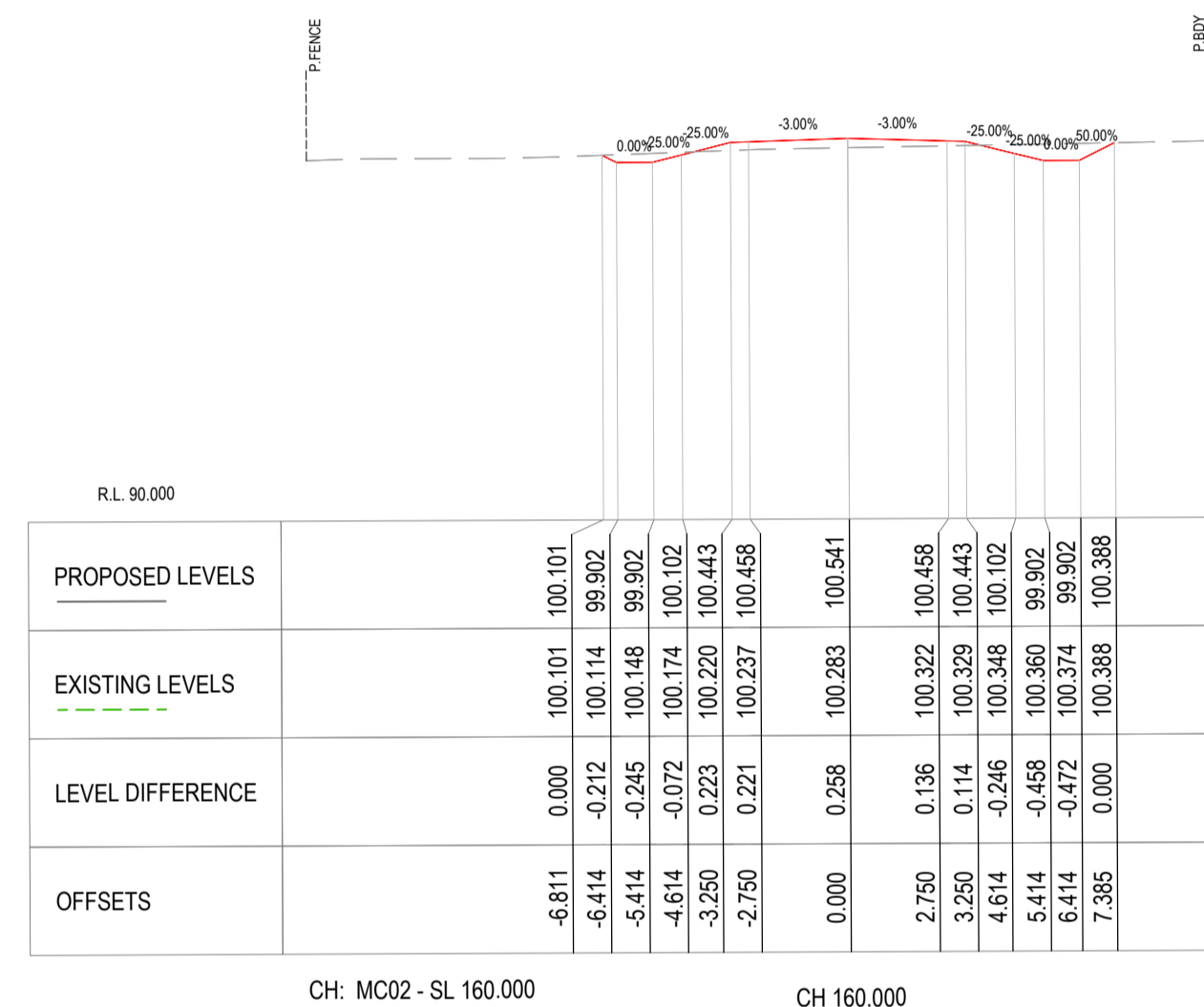
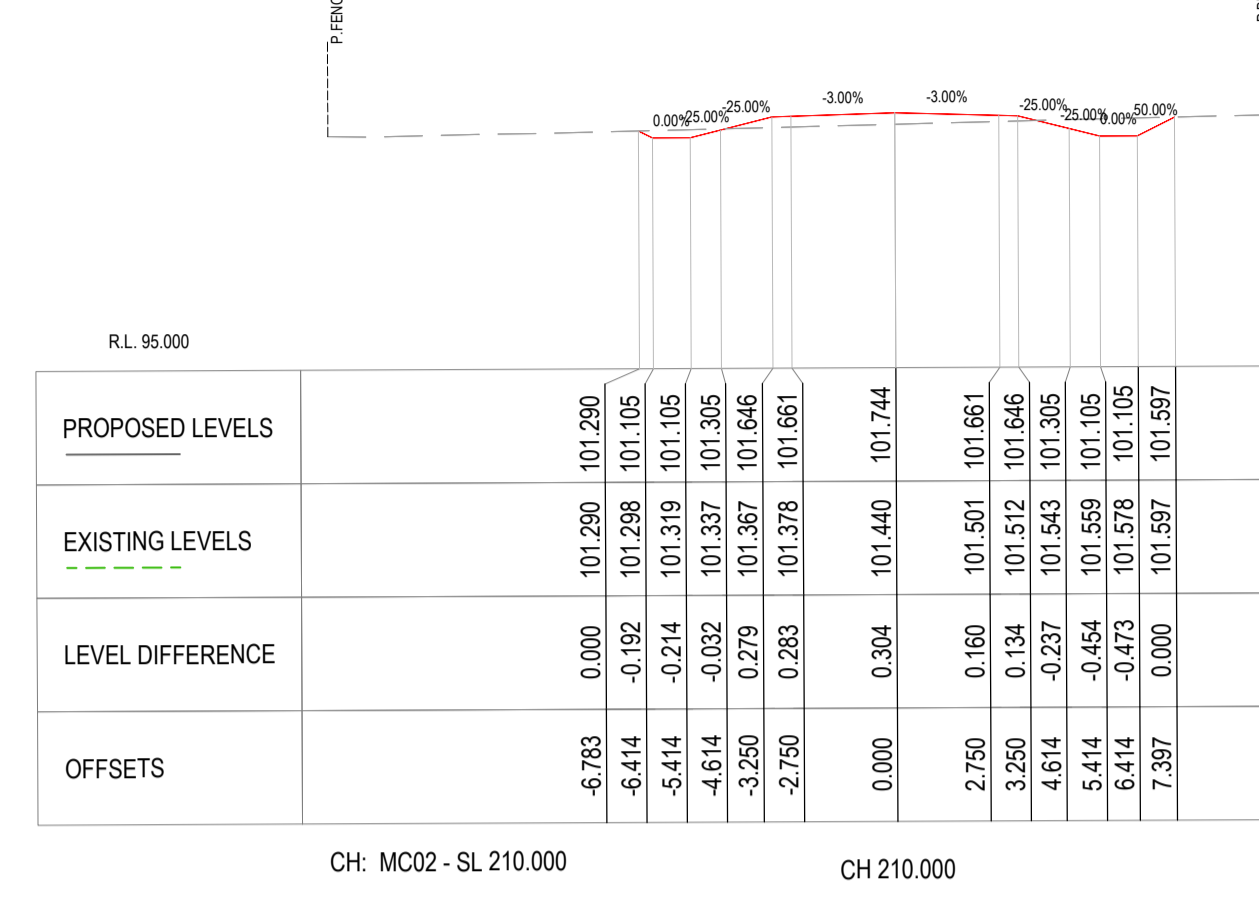
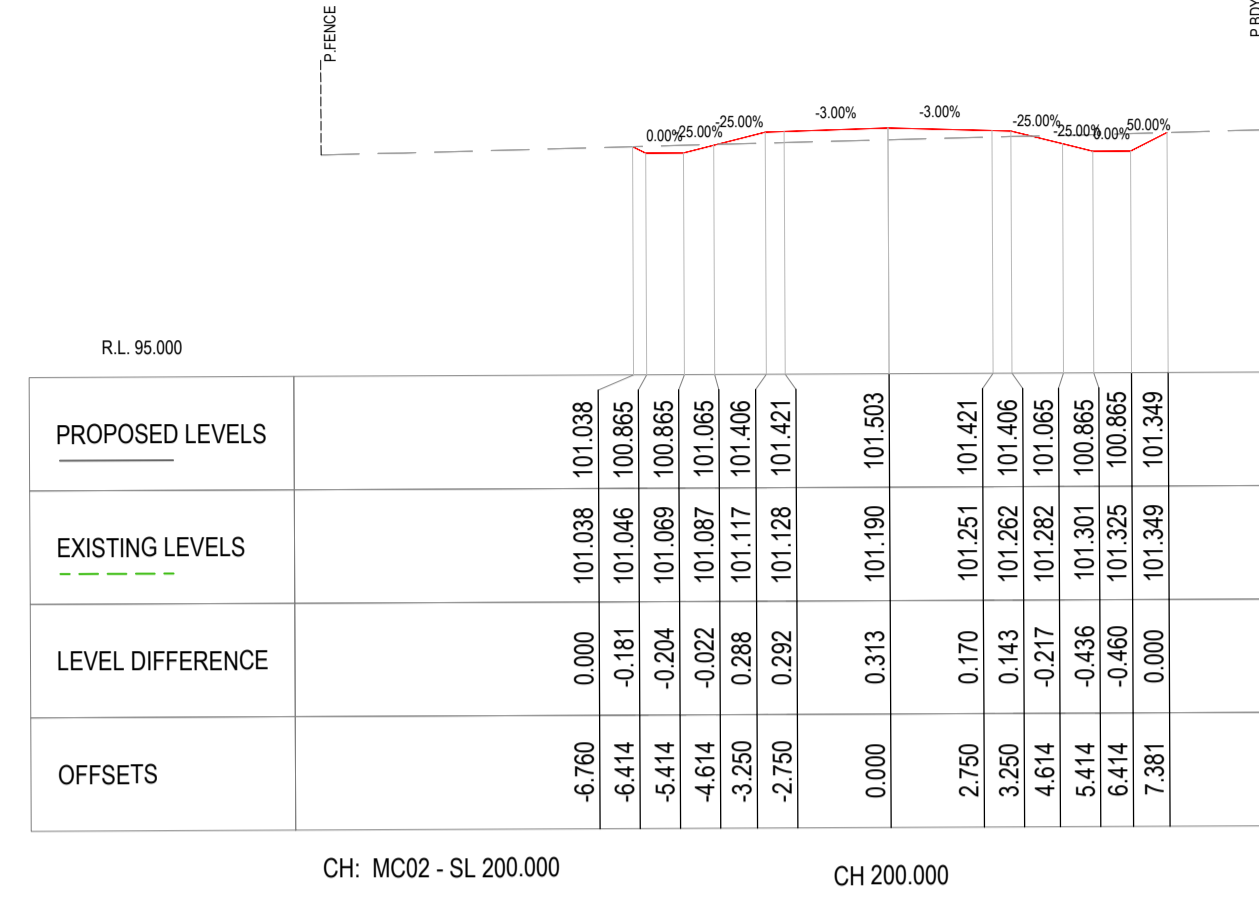
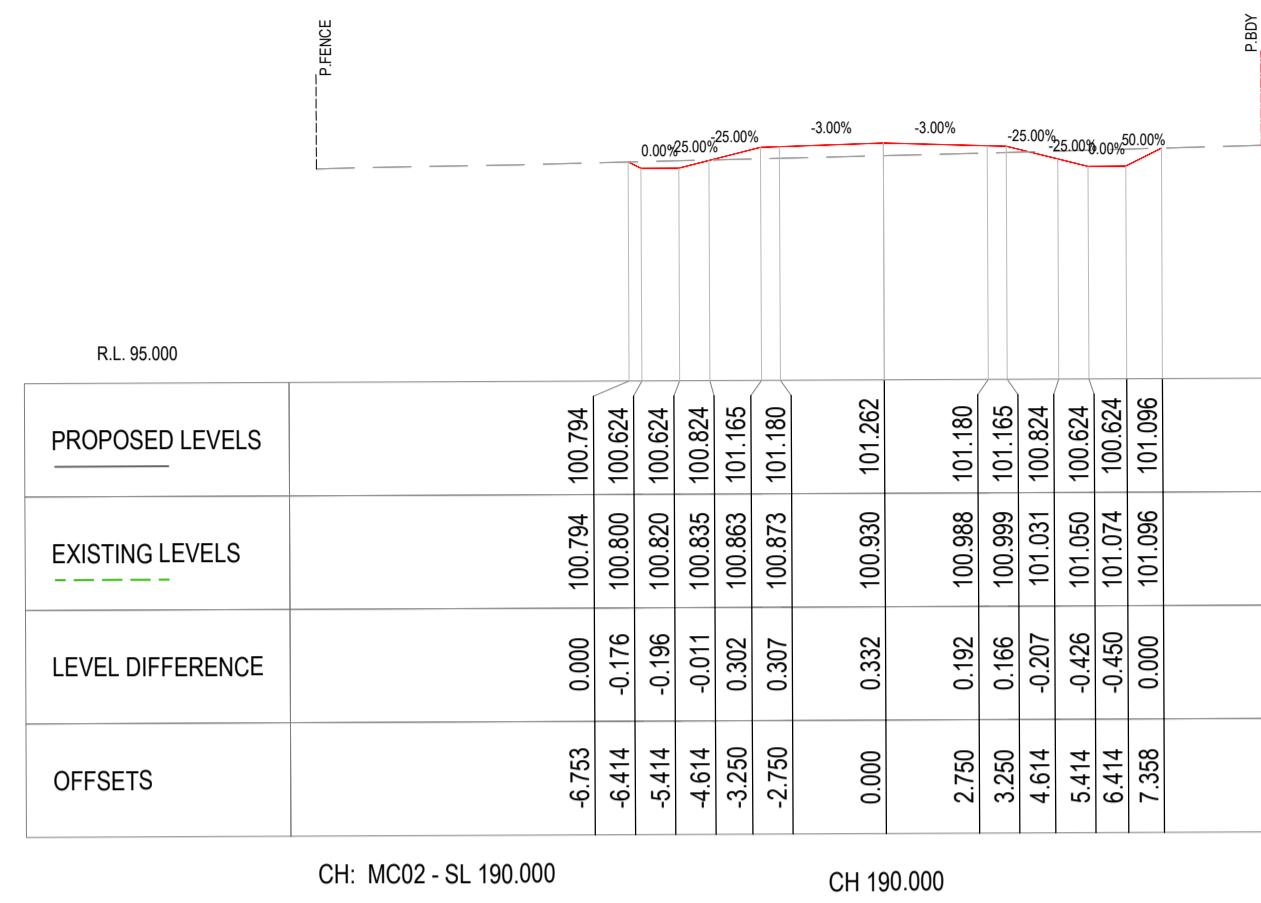
CROSS-SECTIONS SHEET 1 OF 4

DRAWING NUMBER

CE21025-501-XS

ISSUE

A



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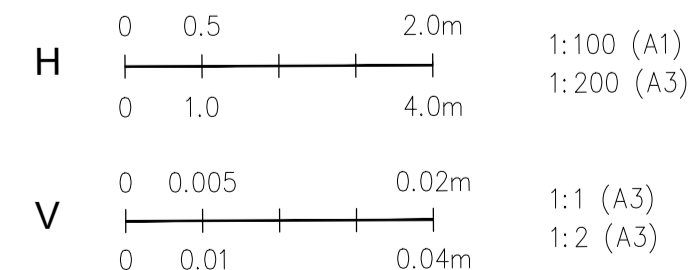
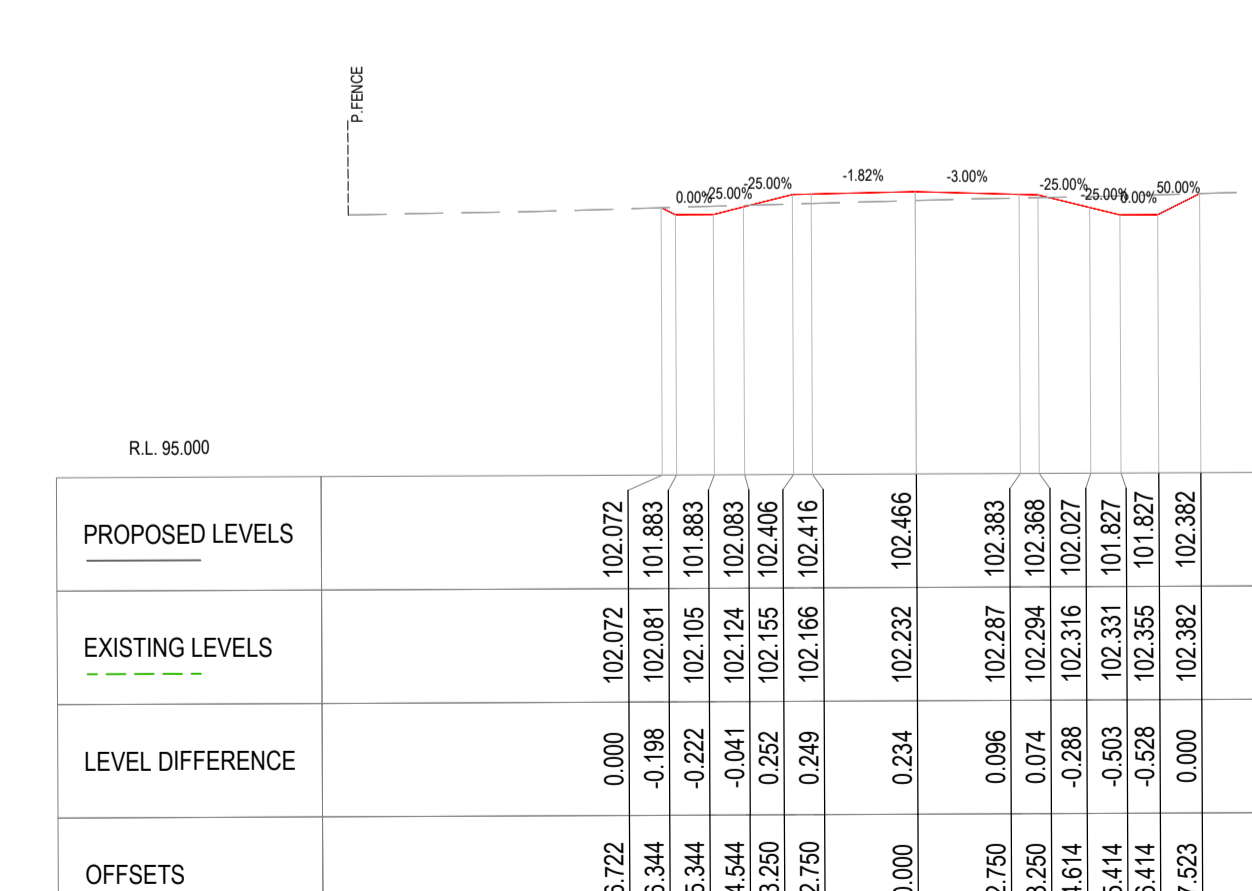
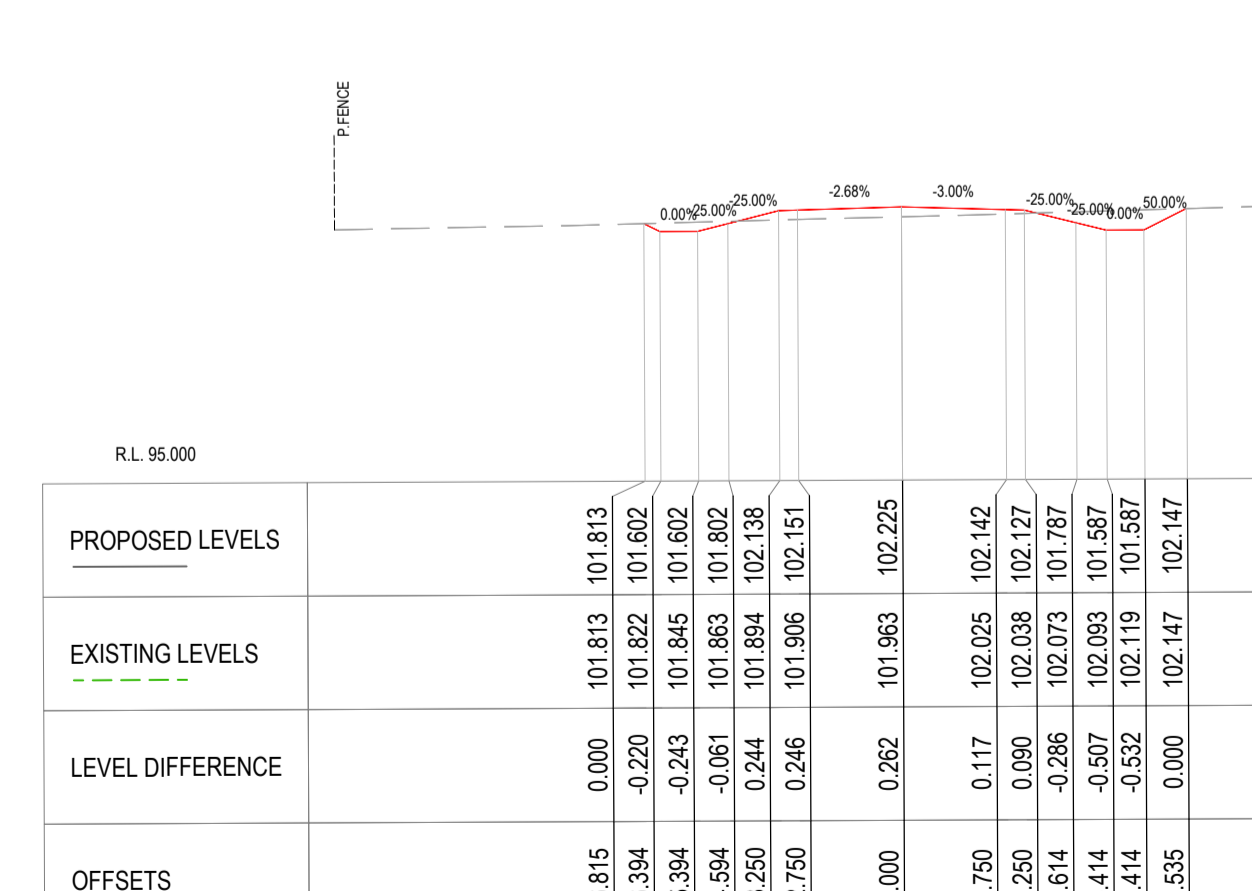
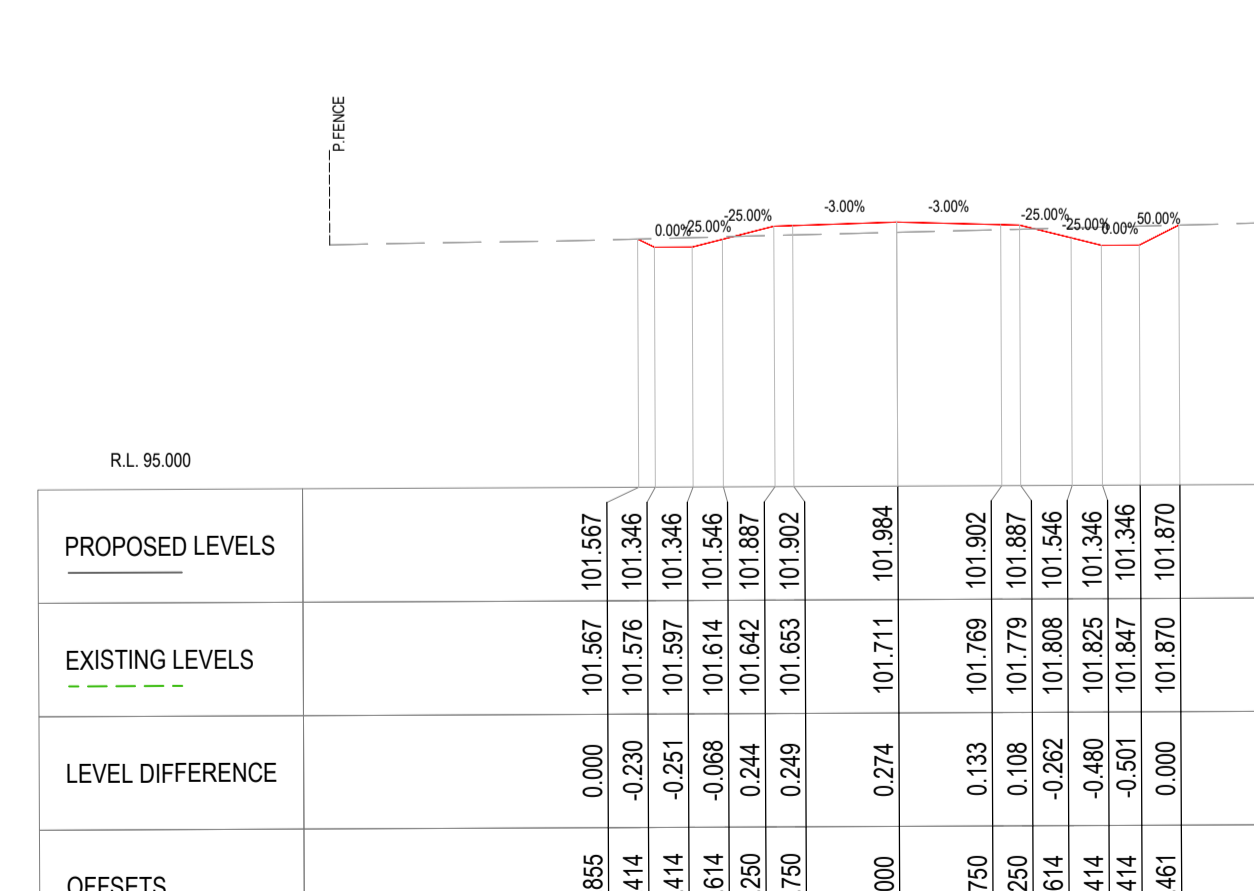
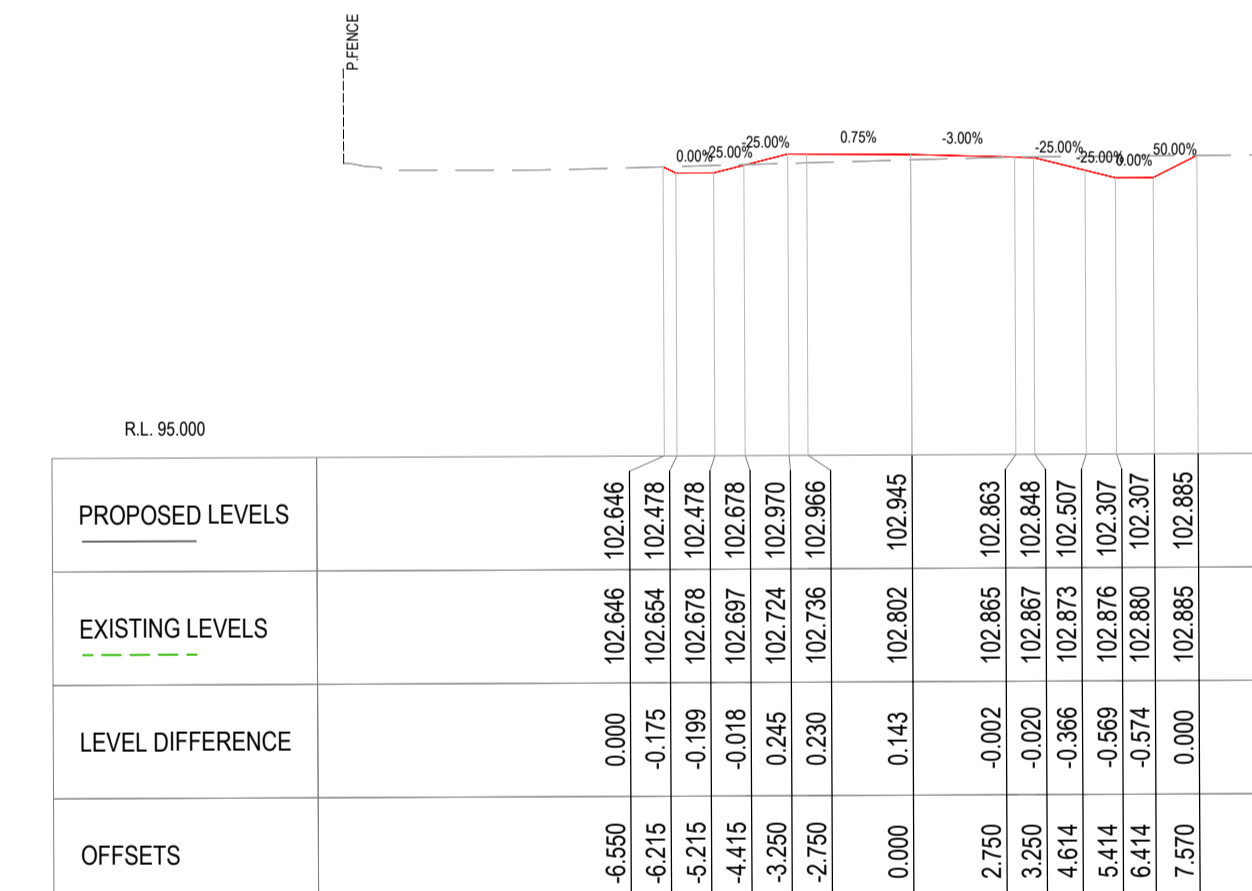
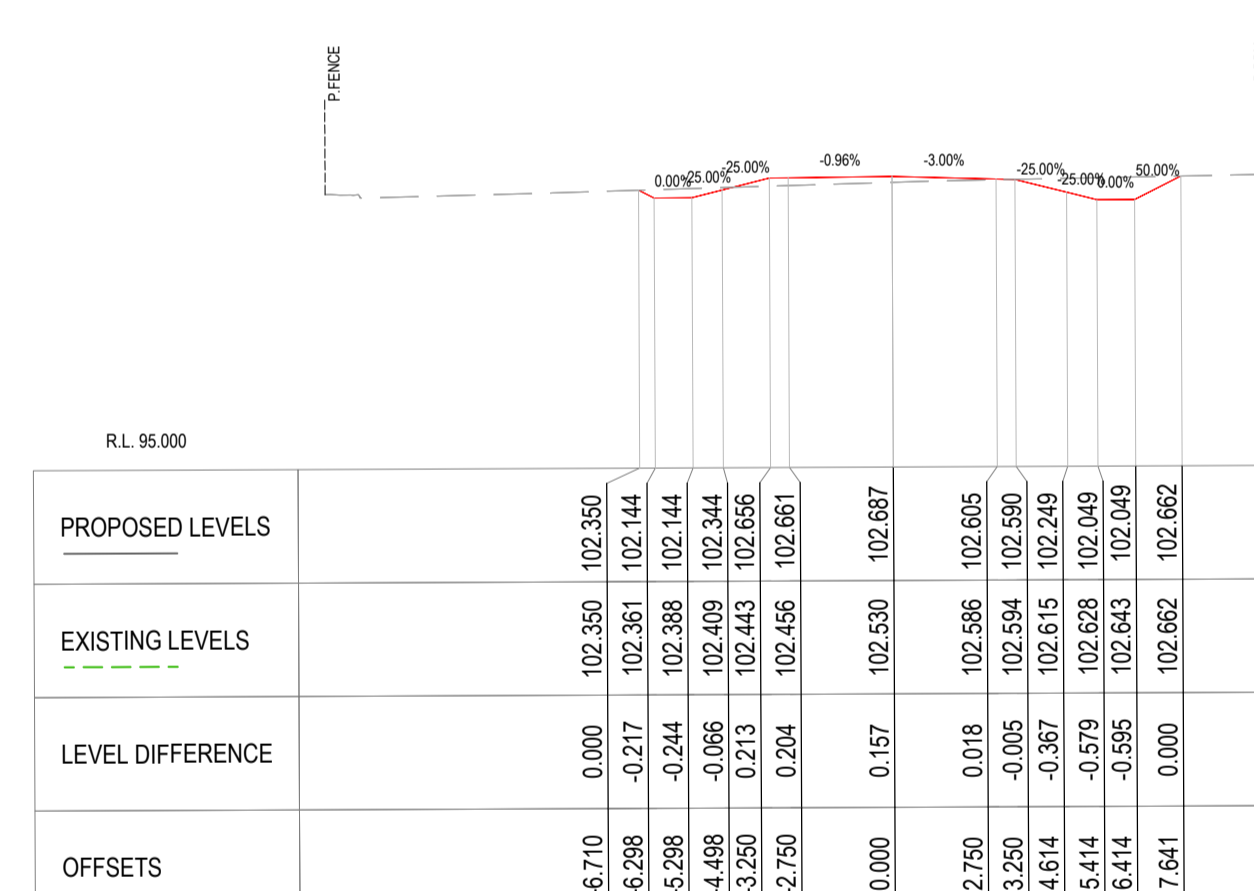
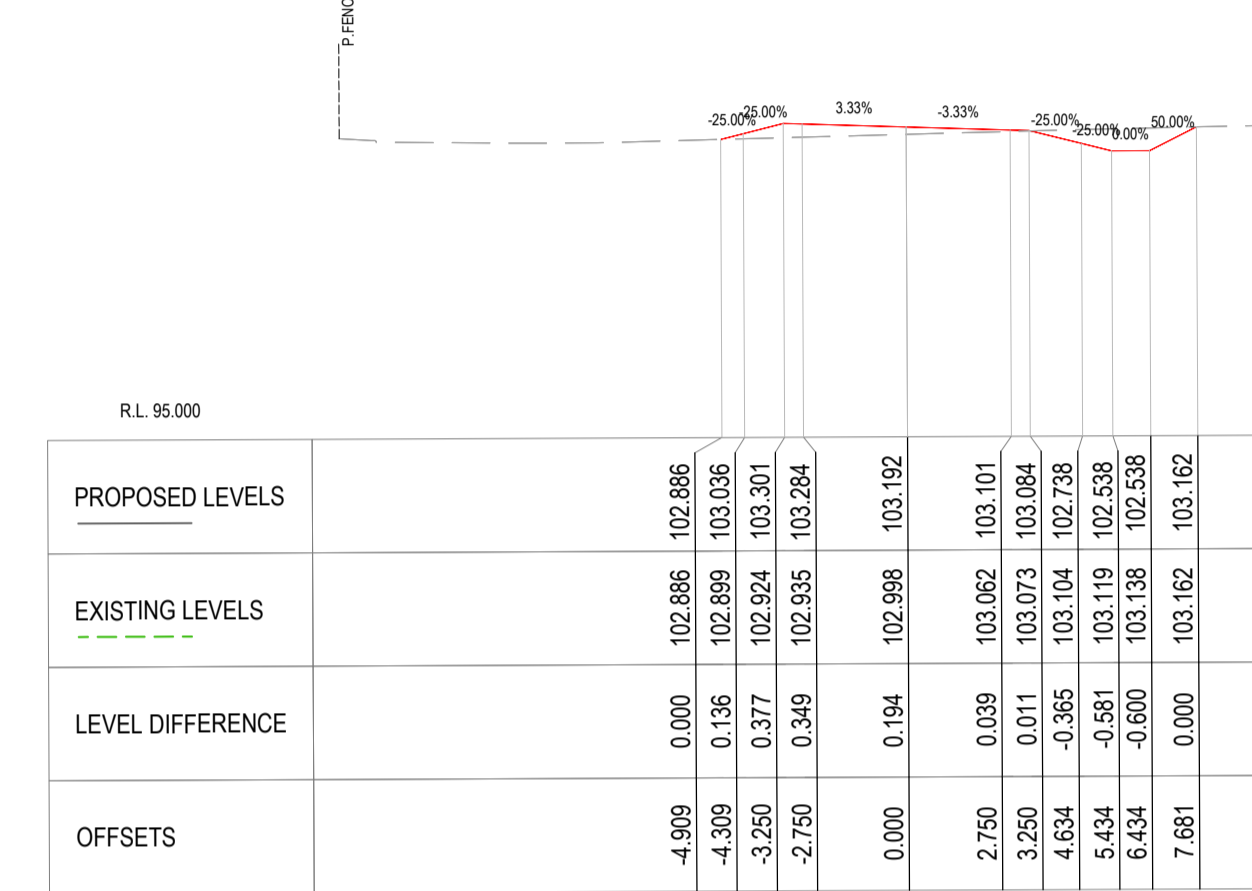
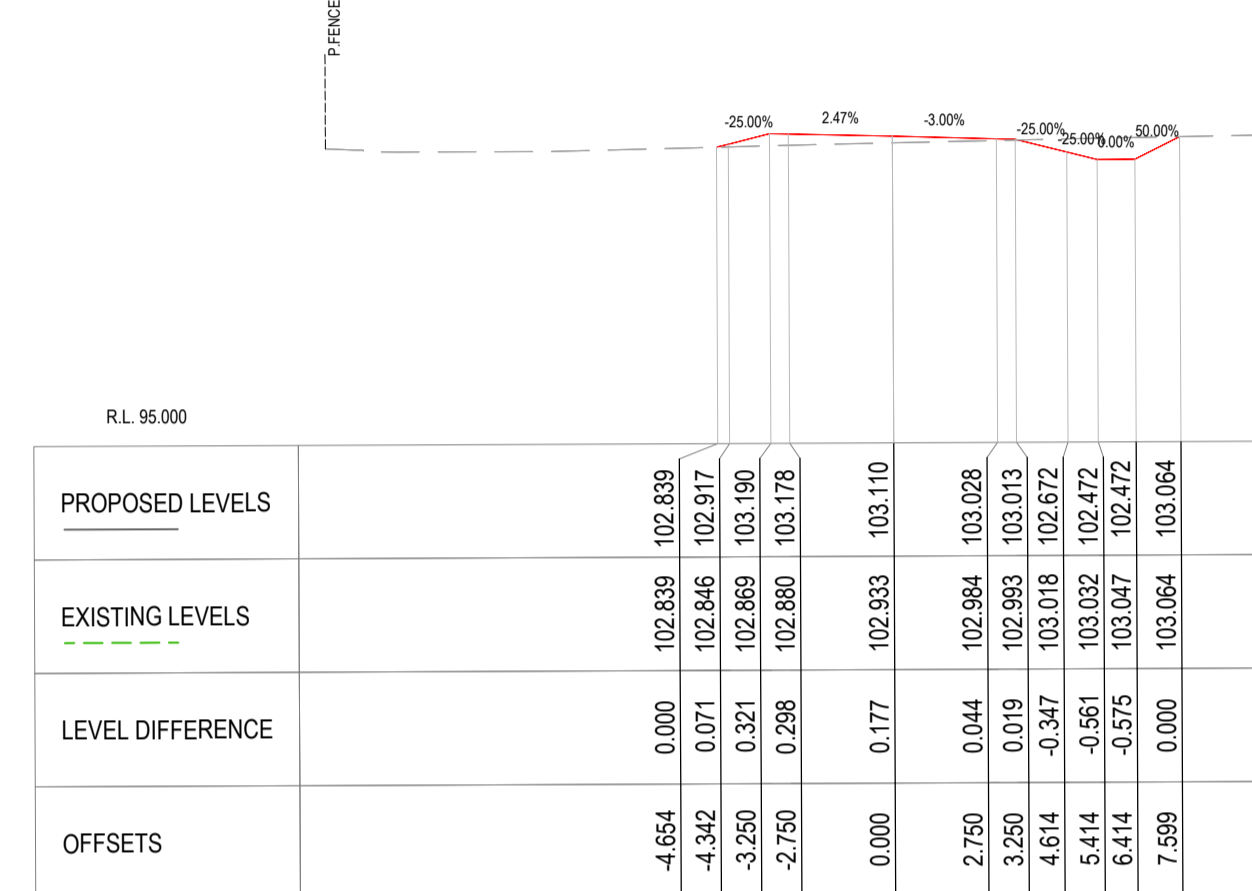
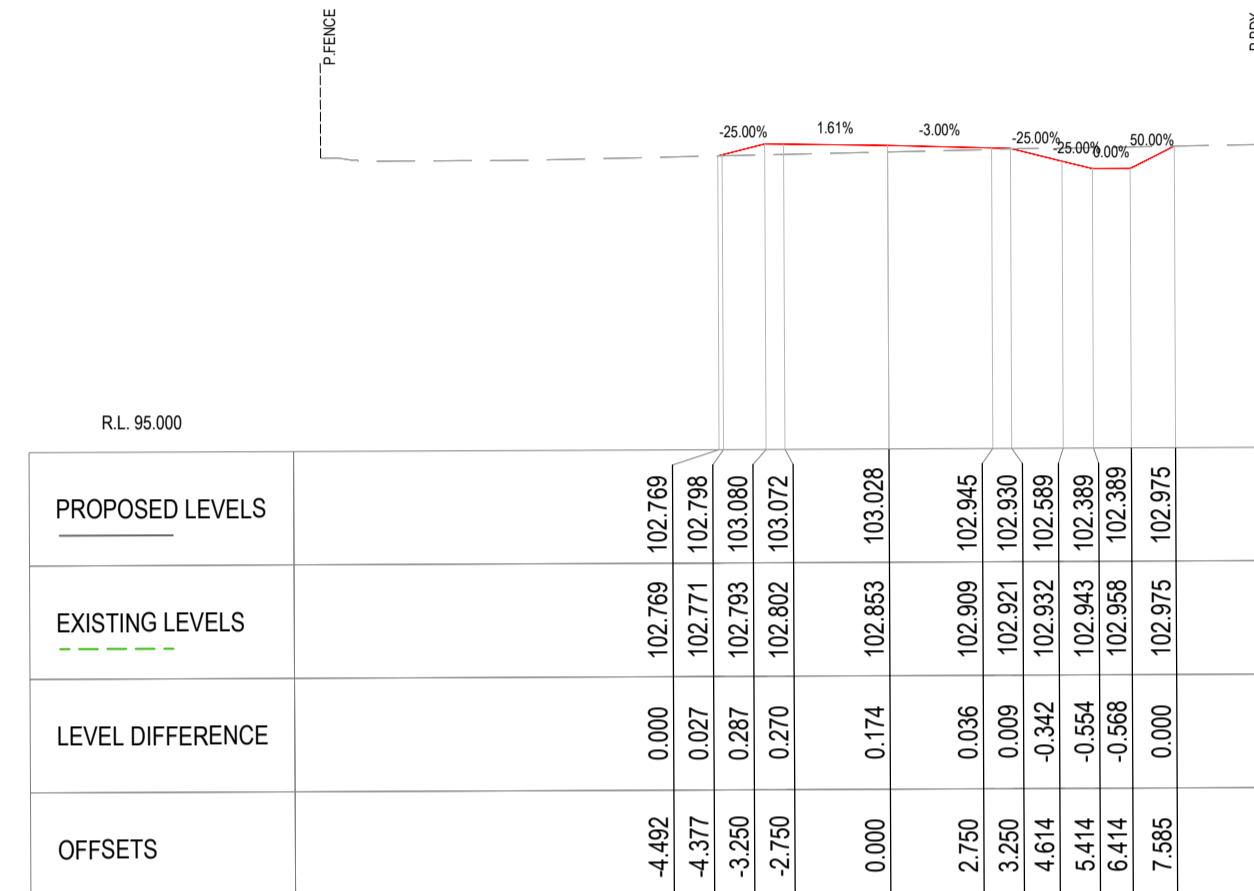
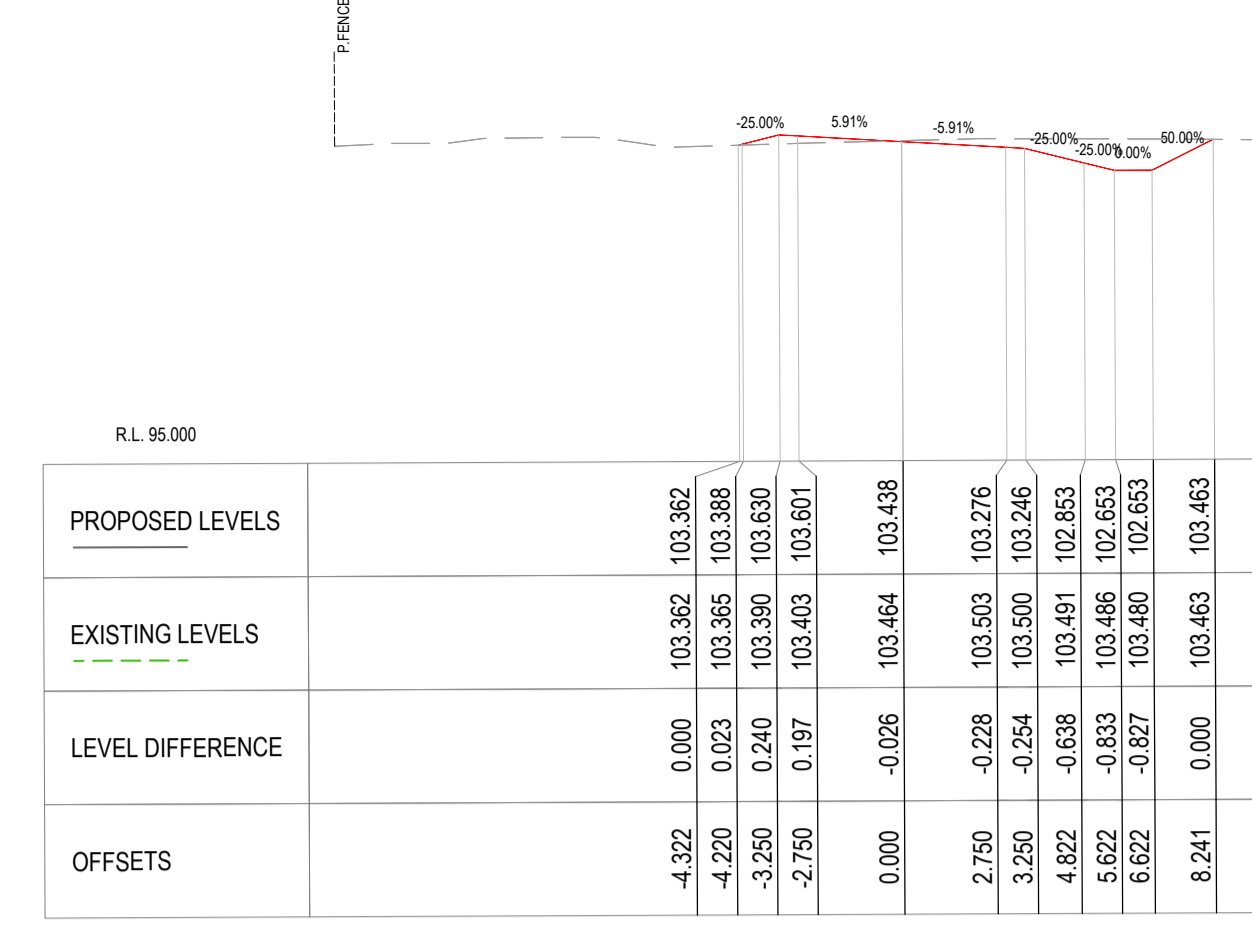
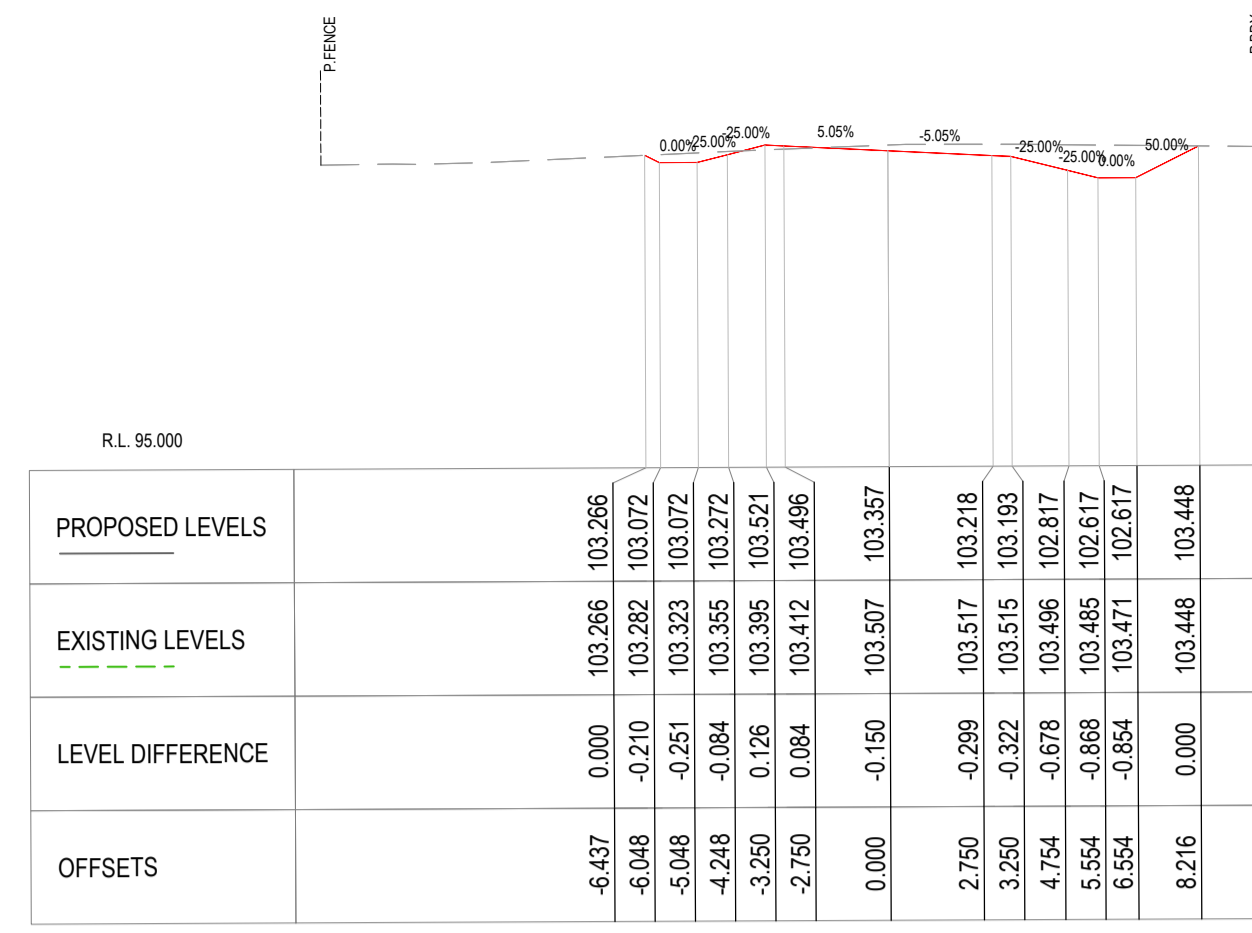
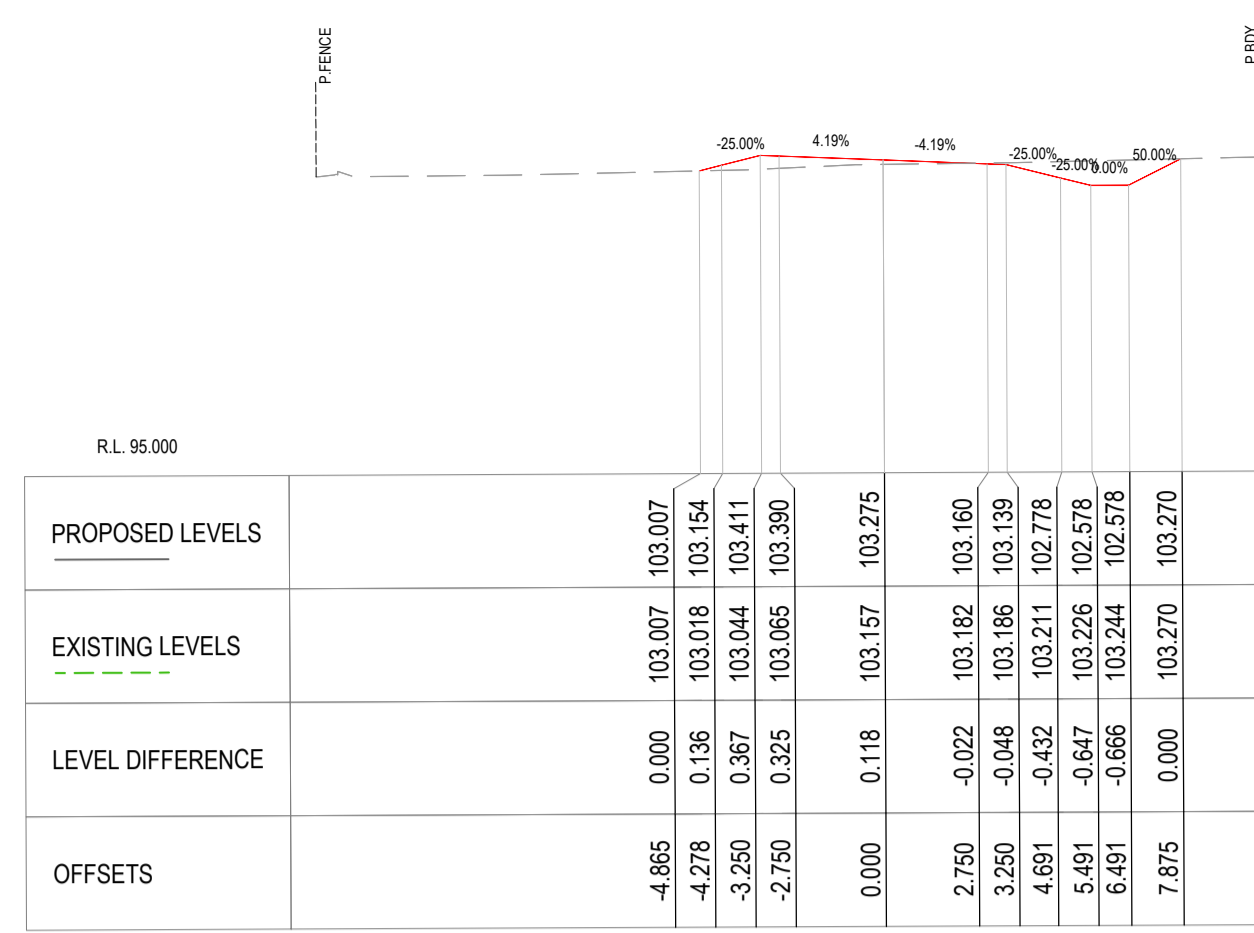
**ROCKHAMPTON REGIONAL COUNCIL**

**APPROVED PLANS**

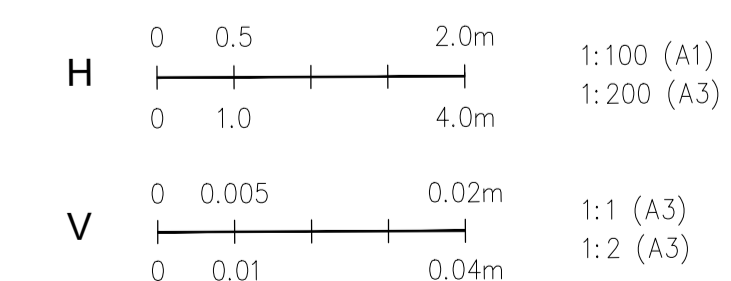
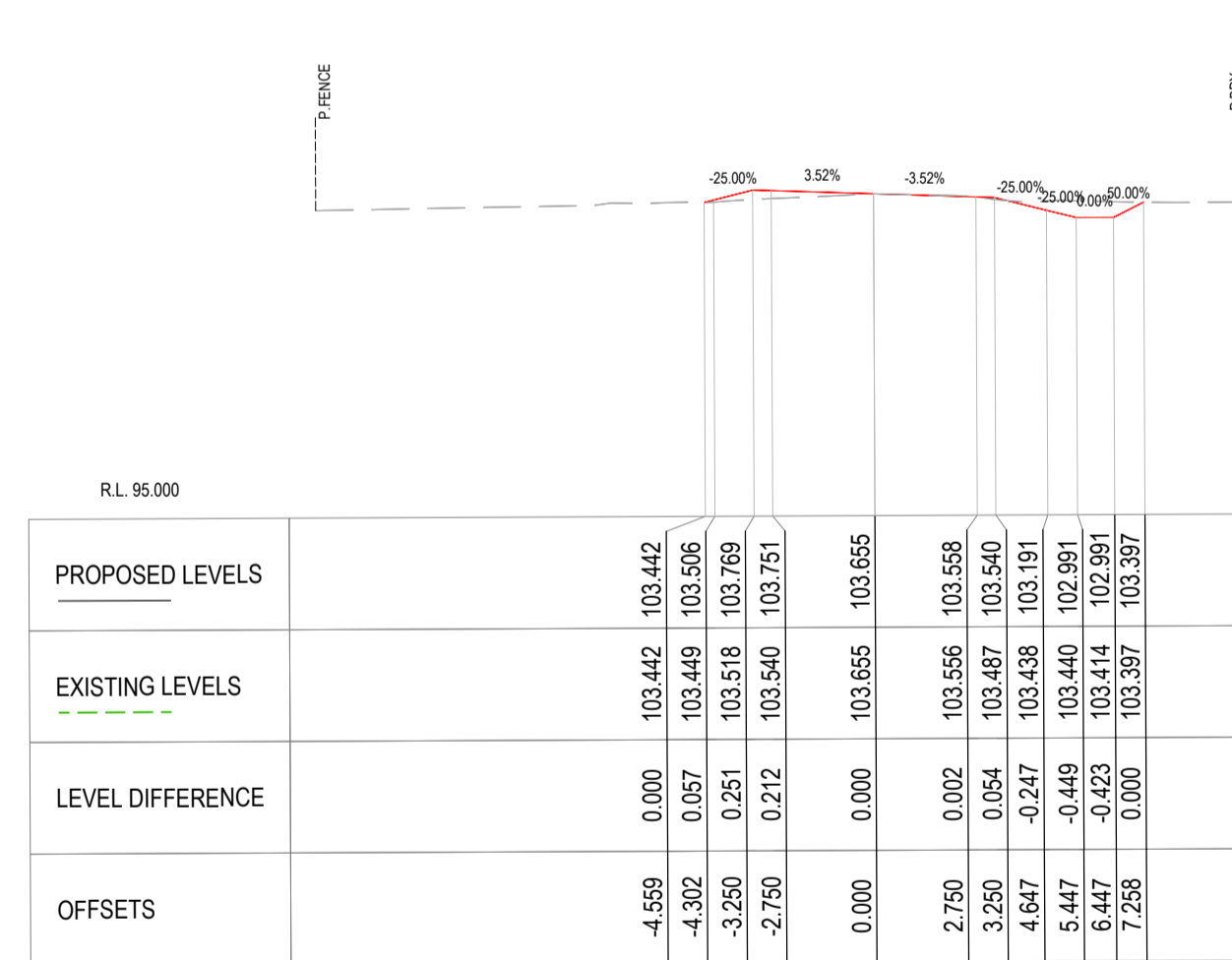
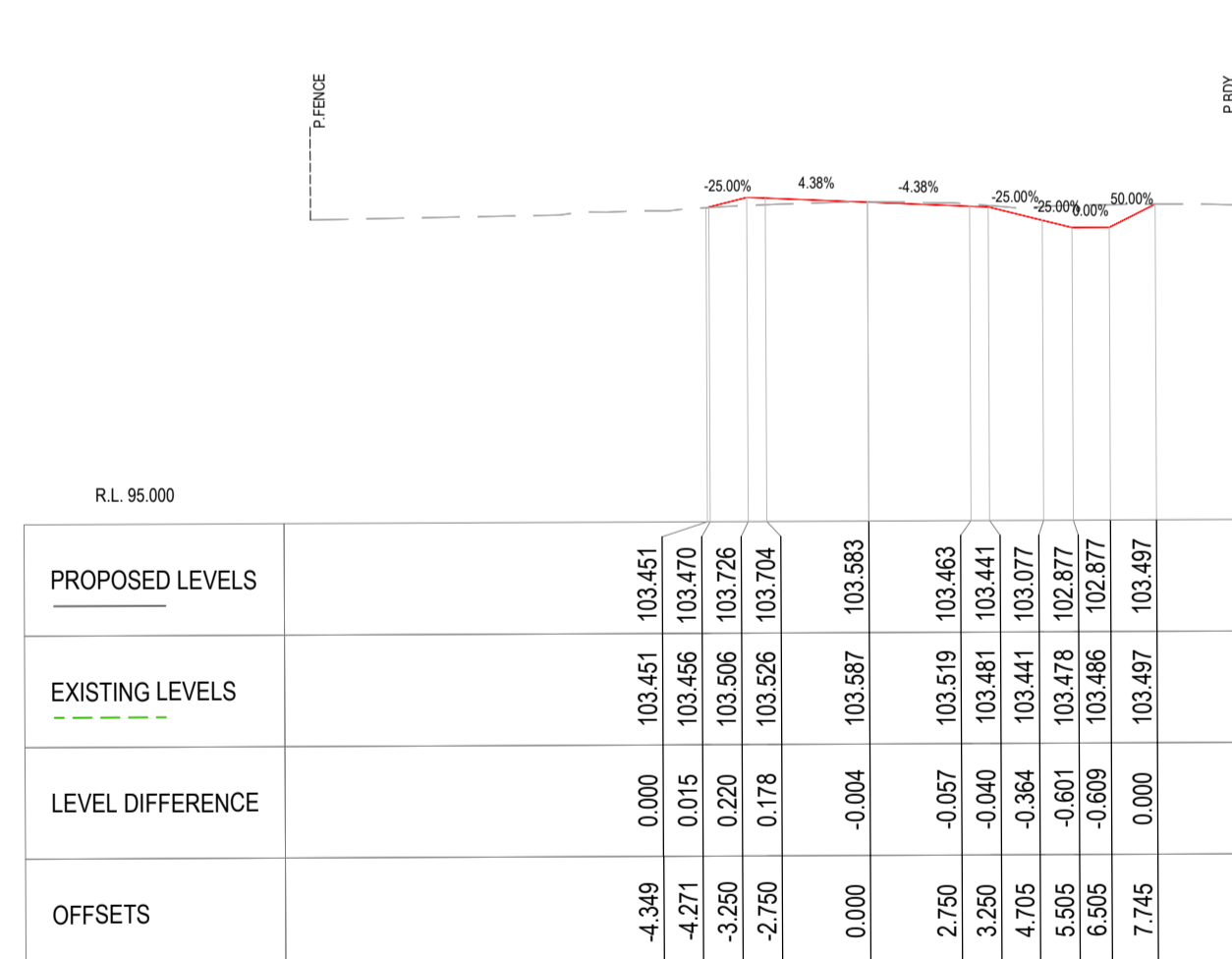
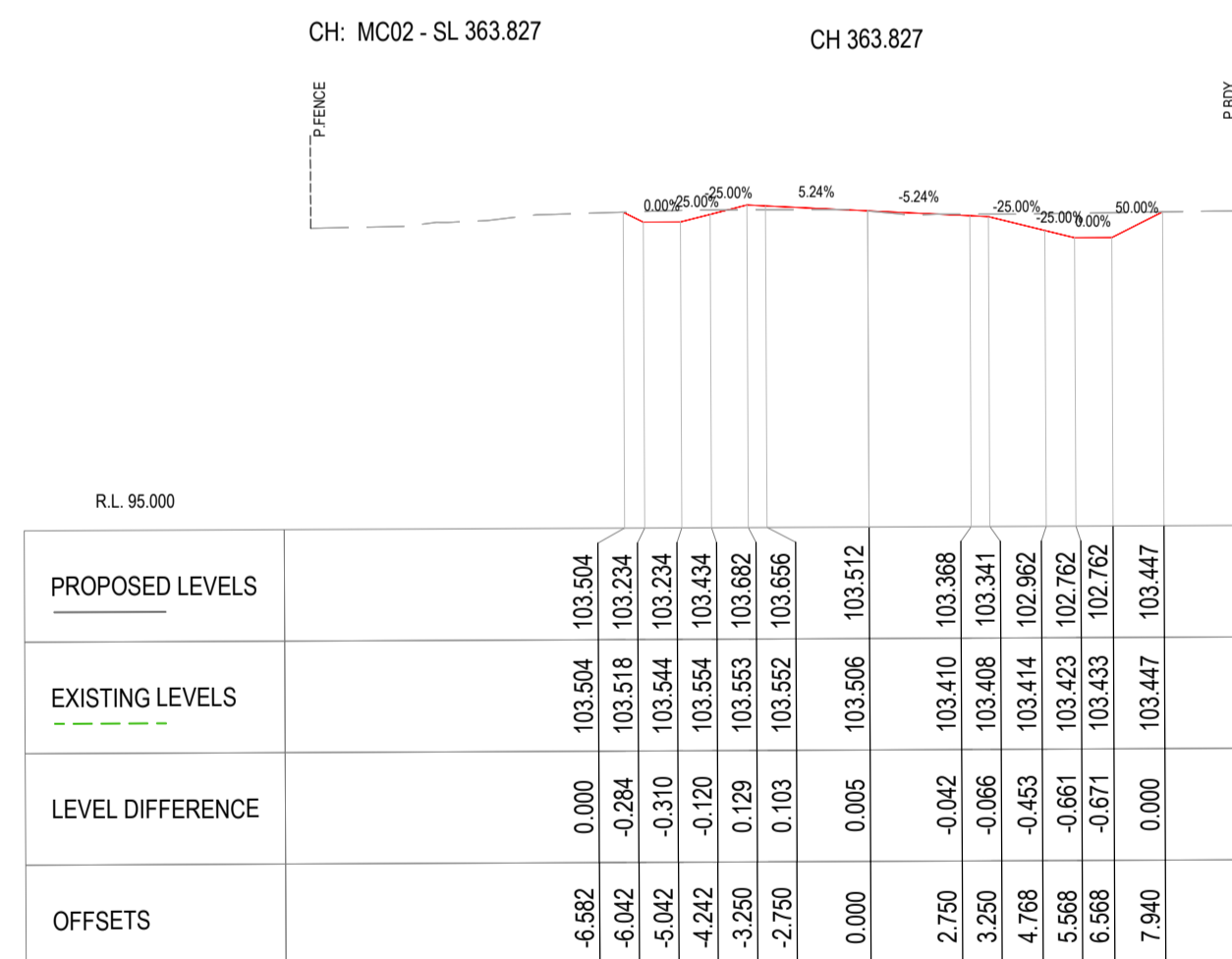
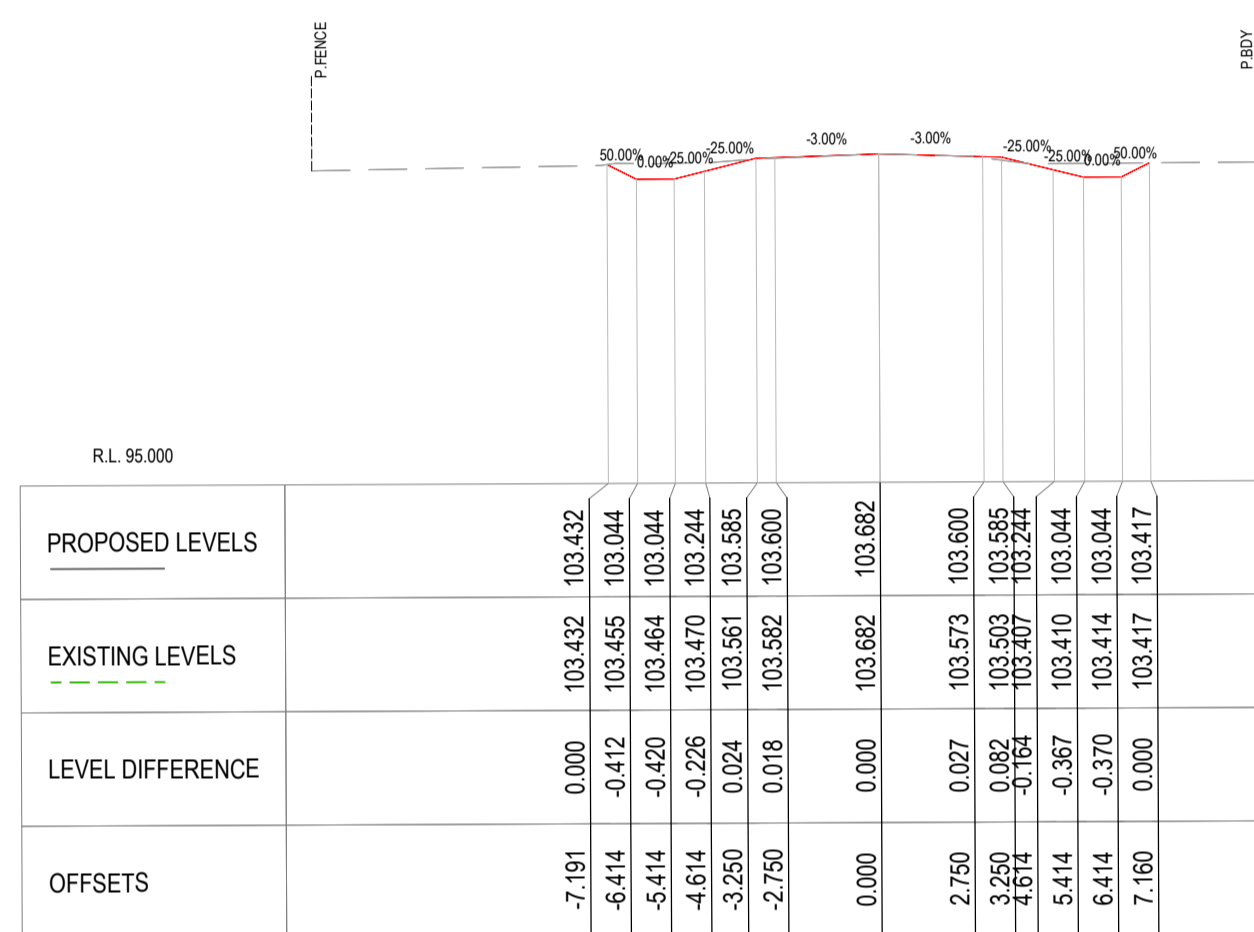
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Development Permit No: **D 141-2020**

Dated: **17 May 2021**



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				100% DETAILED DESIGN									



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	LM	AB	04/21								

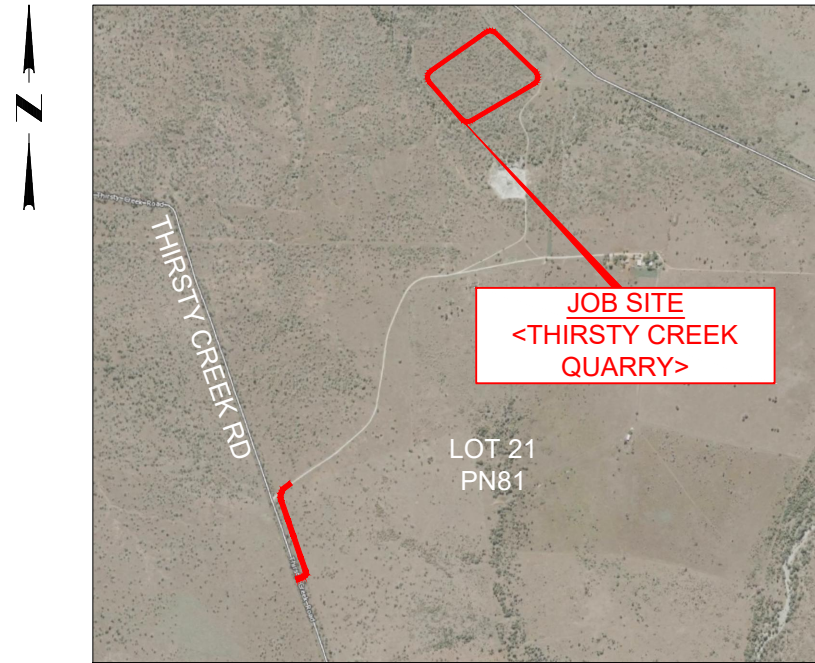
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DRAWING TITLE  
**CROSS-SECTIONS SHEET 4 OF 4**



# THOMAS PLANT HIRE - QUARRY

## LOT 21 PN81 THIRSTY CREEK RD, GOGANGA Q PROPOSED QUARRY CARPARK



**LOCALITY PLAN**  
NOT TO SCALE

### PROPOSED QUARRY CARPARK - 2021

DESIGN FILE No: CE21025  
DESIGN STANDARD: CMDG DESIGN GUIDELINES AUSTRROADS & TMR DESIGN GUIDELINES

#### DESIGN TRAFFIC

DESIGN VEHICLE: 19.0 TRUCK & DOG & 5.2m PASSENGER VEHICLE  
ROAD CLASSIFICATION: PRIVATE ACCESS  
PAVEMENT DESIGN LIFE: 40 YRS  
DESIGN SPEED: 10KM/H  
POSTED SPEED: N/A

#### STORMWATER/SEDIMENT & EROSION DATA

STORMWATER REPORT: STORMWATER MANAGEMENT PLAN by McMurtrie Consulting Engineers dated 23/02/2021  
EVENT FLOW: 20% AEP

#### GENERAL

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS.
2. BEFORE PROCEEDING WITH THE WORK ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE REFERRED FOR DECISION TO THE SUPERINTENDENT.
3. DO NOT SCALE FROM DRAWINGS.
4. CONTRACTOR SHALL VERIFY ALL LOCATIONS OF SERVICES, ALL DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION.
5. ALL MATERIALS/CONSTRUCTION & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND THE LOCAL AUTHORITY'S STANDARD DRAWINGS AND BY-LAWS.
6. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL RELEVANT APPROVALS PRIOR TO COMMENCEMENT OF WORKS.
7. UNDERGROUND SERVICE LOCATIONS SHOWN ON THIS PLAN HAVE BEEN DETERMINED BY FIELD SURVEY AND/OR OFFICE RECORDS, AND MAY NOT REPRESENT ALL SERVICES OR EXACT LOCATIONS. THE CONTRACTOR MUST ACCURATELY LOCATE AND DEPTH ALL SERVICES LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, PRIOR TO COMMENCING ANY EXCAVATION WORKS.
8. DISPERSIVE SOILS ARE NOT TO BE USED AS FILL/EMBANKMENT MATERIAL. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH CURRENT RMS SPECIFICATIONS AND TECHNICAL STANDARDS.

#### CONSTRUCTION SPECIFICATIONS

CMDG CONSTRUCTION SPECIFICATIONS:  
C201 CONTROL OF TRAFFIC  
C202 RURAL ROAD CLEAR ZONES  
C211 CONTROL OF SEDIMENT & EROSION  
C212 CLEARING & GRUBBING  
C213 EARTHWORKS  
C220 STORMWATER DRAINAGE  
C221 PIPE DRAINAGE SPECIFICATION  
C223 DRAINAGE SPECIFICATIONS  
C224 OPEN DRAINS  
C265 BOUNDARY FENCING

#### STANDARD DRAWINGS

CMDG-G-010 FOUR & SIX BARBED WIRE FENCING  
CMDG-D-050 SEDIMENT CONTROL DEVICES SEDIMENT FENCE ENTRY EXIT SEDIMENT TRAP  
CMDG-D-051 SEDIMENT CONTROL DEVICES, KERB AND FIELD INLETS, CHECK DAMS & STRAW BALE BANK

### DRAWING SCHEDULE

DOCUMENT TITLE	DOCUMENT NO.
COVER SHEET, LOCALITY PLAN & DRG. SCHEDULE	CE21025.2-001-CO
GENERAL DETAILS PLAN	CE21025.2-101-GD
GENERAL ARRANGEMENT	CE21025.2-201-GA

### ROCKHAMPTON REGIONAL COUNCIL

#### APPROVED PLANS

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**Development Permit No: D 141-2020**

**Dated: 17 May 2021**

DETAIL SURVEY BY:  
ACCIONA CONSTRUCTION AUST. - DATE SURVEYED  
29/03/21 SURVEY: MGA20 ZONE 56  
STANDARD DRAWINGS:  
CMDG STANDARD DESIGN DRAWINGS & GUIDELINES /  
AR&R GUIDELINES / INSTITUTE OF PUBLIC WORKS  
ENGINEERING AUSTRALIA (IPWEA)

www.dialbeforeyoudig.com.au

ALL UNDERGROUND SERVICES SHOULD BE LOCATED ON SITE BEFORE ANY WORK IS COMMENCED


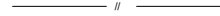



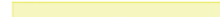






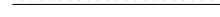





DIAL 1100  
BEFORE YOU DIG

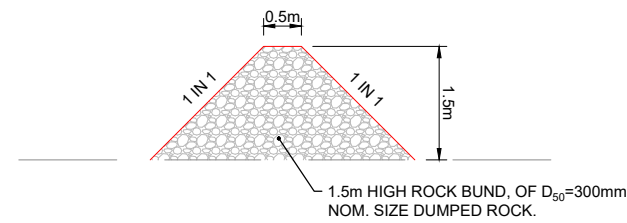
FIRST ISSUE	CALCS DRAWN	DATE	AMENDMENT DETAILS	DESIGN CHECK	COPYRIGHT	DATUM	CLIENT	DRAWING TITLE
A	LM AB	04/21	100% DETAILED DESIGN	<i>lm</i>	© MOLONEY SOLUTIONS PTY LTD 2021 <small>These designs and drawings are copyright and are not to be used or reproduced without the written permission of the above. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing. Verify dimensions prior to commencing any works.</small>	PROJECT No.	THOMAS PLANT HIRE	COVER SHEET & LOCALITY PLAN DRAWING SCHEDULE
A	LM AB	23/04/21		DRAWN CHECK		CE21025.2	PROJECT PROPOSED QUARRY LOT 21 PN 81 THIRSTY CREEK RD GOGANO Q	DRAWING NUMBER CE21025.2-001-CO
				AB		APPROVED <i>[Signature]</i> RPEQ 7637	FOR & ON BEHALF OF MOLONEY & SONS ENGINEERING	ISSUE A

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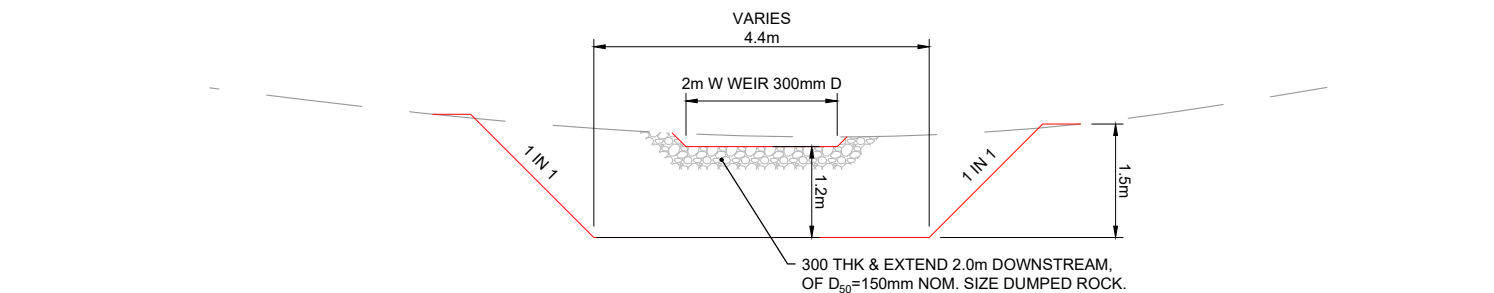
# GENERAL LEGEND

-  Existing Boundary
-  Existing Fence Line
-  Existing Access/Haul Road
-  Existing Surface Contours Major
-  Existing Surface Contours Minor
-  Existing Vegetated Buffer Zone
-  Existing Extraction Area
-  Existing Processing Area
-  Proposed Gravel Area
-  Proposed Top Basin
-  Proposed Toe Basin
-  Proposed Diversion Bund
-  Proposed Dumped Rock
-  Proposed Water Flow
-  Proposed Parking
-  Proposed Weir Location
-  Proposed New Sign
-  Indicative Line Marking Arrows For Information Only



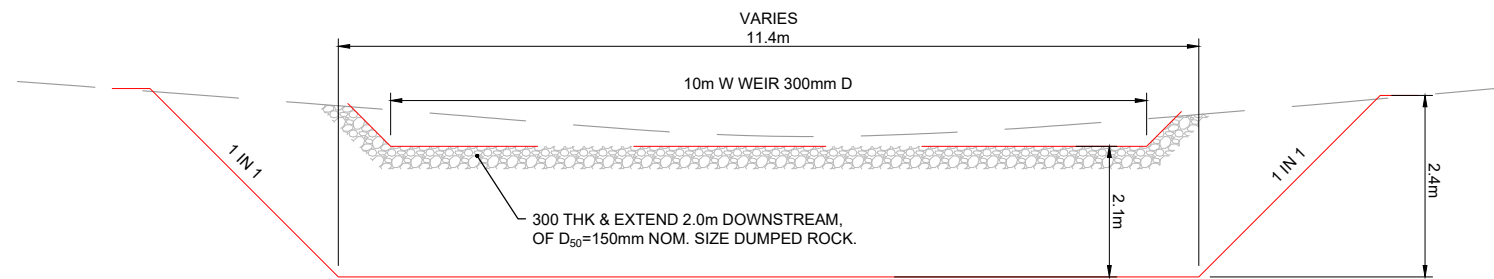
TYPICAL DIVERSION BUND DETAIL

SCALE 1:100



TYPICAL SED. BASIN SECTION 'B'

SCALE 1:100



TYPICAL SED. BASIN SECTION 'A'

SCALE 1:100

## ROCK GRADING REQUIREMENTS

PARTICLE SIZE	% (BY WEIGHT) OF RIP-RAP SMALLER THAN
2 x D <sub>50</sub>	100
D <sub>50</sub>	50
0.3 x D <sub>50</sub>	10-20

WHERE D<sub>50</sub> IS NOM. DIAMETER OF THE RIP-RAP

## GENERAL:

1. ALL DIMENSIONS IN MILLIMETERS UNO.
2. ALL DUMPED ROCK SHALL BE UNDERLAIN BY APPROVED GEOTEXTILE SUITABLE FOR SUBMERSION IN WATER. DUMPED ROCK SHALL COMPRISE ROCK MATERIAL WHICH IS NOT SUSCEPTIBLE TO BREAKDOWN UNDER WETTING & DRYING.
3. DUMPED ROCK SHOULD NOT BE SINGLE SIZED, BUT WELL GRADED MIXTURE DESIGNED TO ENSURE THAT ALL INTERSTICES BETWEEN LARGE ROCKS ARE FILLED WITH ROCK OF PROGRESSIVELY SMALLER SIZE.
4. THE THICKNESS OF THE DUMPED ROCK SHALL NOT BE LESS THAN THE 2.1xD<sub>50</sub>.
5. DUMPED ROCK SHALL BE PLACED IN A MANNER AS TO AVOID DAMAGE TO THE UNDERLYING GEOTEXTILE.
6. DUMPED ROCK SIZING IS BASED ON A MINIMUM SPECIFIC GRAVITY OF 2.50.
7. THE RATIO OF DUMPED ROCK LENGTH TO THICKNESS SHALL BE LESS THAN 2.0.
8. ROCK FILLED MATTRESS SHALL BE GALVANISED WIRE MESH OR PLASTIC COATED FILLED WITH ROCK SECURELY FIXED.
  - 8.1. GEOTEXTILE ENDS & UNDERSIDE LINING;
  - 8.2. MIN. Ø75mm ROCK SIZE & MAX. TO BE TWO THIRDS OF MATTRESS THICKNESS; &
  - 8.3. MESH APERTURE SIZE MUST NOT EXCEED 60x80mm, WITH A WIRE DIAMETER OF NOT LESS THAN 2.0mm.
9. THERE SHALL BE MINIMUM DISTURBANCE OF THE BED & BANKS OF THE WATER COURSE & APPROPRIATE PROTECTION AT & IMMEDIATELY UPSTREAM & DOWNSTREAM OF THE CROSSING.

## SEDIMENT BASIN DETAILS

PARAMETER	BASIN A	BASIN B1	BASIN B2
DESIGN FLOW	20% AEP, 24 Hour		
BASIN CATCHMENT AREA (HA)	1.92	1.27	2.06
TYPE OF BASIN	TYPE D		
SETTLING VOLUME (m <sup>3</sup> )	1928	1826	1499
STORAGE DEPTH (m)	1687	1603	1365
TOTAL BASIN VOLUME (m <sup>3</sup> )	3616	3429	2864
SETTLING DEPTH (m)	1.2	1.2	0.75
STORAGE DEPTH (m)	1.2	1.2	0.75
OVERALL BASIN DEPTH (m)	2.4	2.4	1.5
INTERNAL BATTERS	1 in 1	1 in 1	1 in 1
SEDIMENTATION BASIN BED AREA (m <sup>2</sup> )	1310	1246	1731
DESIGN INFLOW SYSTEMS	SHEET FLOW WITH DIVERSION BUNDS TO BASINS		
DESIGN OUTFLOW SYSTEMS	NA, SITUATED WITHIN QUARRY PIT FLOOR, BASIN WILL BE PUMPED AS REQUIRED	10m WEIR, MIN 0.3m DEEP SITUATED 2.4m ABOVE BASIN BED WITH 1 IN 2 SIDE BATTERS	2m WEIR, MIN 0.3m DEEP SITUATED 2.4m ABOVE BASIN BED WITH 1 IN 2 SIDE BATTERS
VEGETATION SPECIFICATION	NONE		
REHABILITATION PROCESS FOR THE BASIN AREA	AS PER SITE REHABILITATION PLAN (by EIS dated 12/2020)		
OPERATIONAL PROCEDURES	IN ACCORDANCE WITH (IECA, JUNE 2018) GUIDELINES FOR TYPE D BASINS & WASTE REMOVAL PER SITE WASTE MANAGEMENT PLAN (by EIS dated 12/2020)		

ABOVE TABLE IN ACCORDANCE WITH AND AS PER McMurtrie Consulting Engineers "Stormwater Management Plan" Report dated 23/02/21.

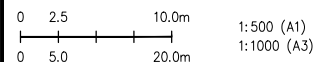
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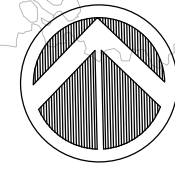
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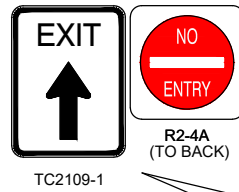
Dated: **17 May 2021**



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	AMENDMENT DETAILS 100% DETAILED DESIGN	DRAWN CHECK AB	FOR & ON BEHALF OF MOLONEY & SONS ENGINEERING										



VEGETATED BUFFER ZONE



TC2109-1

CONTINUES TO PROCESSING AREA HARDSTAND

PROPOSED PORTABLE OFFICE/AMENITIES BUILDING

EXISTING FENCE LINE TO REMAIN

EXTRACTION AREA

BASIN A

PROCESSING AREA

BASIN B1

WEIR LOCATION  
2m W x 300m D

WEIR LOCATION  
10m W x 300m D

BASIN B2

EXISTING ACCESS/HAUL ROAD

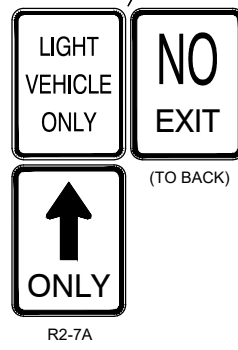
TYP. DIVERSION BUND, REFER CE21025.2-101-GD FOR DETAILS

TYP. DIVERSION BUND, REFER CE21025.2-101-GD FOR DETAILS

ACCESS TO JOIN SMOOTHLY INTO EXISTING.

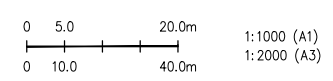
INSERT 'A'  
SCALE 1:500

SITE LAYOUT  
SCALE 1:2000



R2-7A

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**Dated: 17 May 2021**



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FIRST ISSUE	CALCS DRAWN	DATE	AMENDMENT DETAILS
LM	AB	04/21	
A	LM	23/04/21	100% DETAILED DESIGN

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DATUM	
PROJECT No.	CE21025.2

<b>ISSUED FOR APPROVAL</b>	
APPROVED	RPEQ 7637
FOR & ON BEHALF OF MOLONEY & SONS ENGINEERING	

CLIENT	THOMAS PLANT HIRE
PROJECT	PROPOSED QUARRY LOT 21 PN 81 THIRSTY CREEK RD GOGANO Q

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