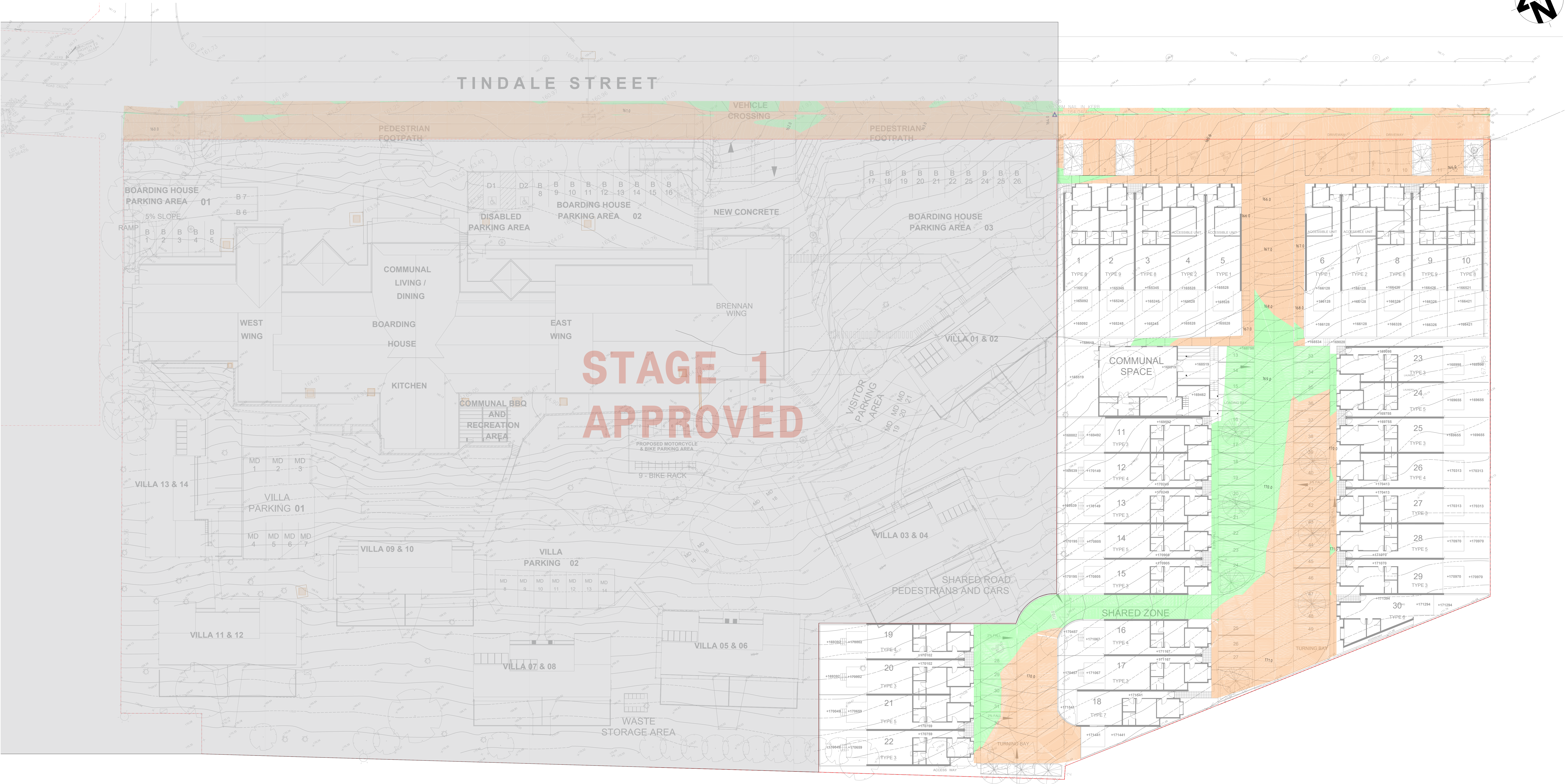
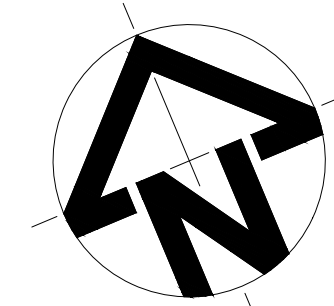




BULK EARTHWORKS PLAN

1:200 @ A0 (H & V)

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2D Area	Cut	Fill	Net
EARTHWORKS	1.000	1.000	2970.983sq.m	541.766 Cu. M.	173.770 Cu. M.	367.996 Cu. M.<Cut>
Totals			2970.983sq.m	541.766 Cu. M.	173.770 Cu. M.	367.996 Cu. M.<Cut>

LEGENDS

170.0	MAJOR CONTOUR
171.0	MINOR CONTOUR
---	EXISTING CONTOUR
ORANGE	CUT
GREEN	FILL

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ISSUED FOR DA APPROVAL

REVISION	AMENDMENT	ISSUE DATE
C	ISSUED FOR DA APPROVAL	27-03-2023
B	DRAFT FOR REVIEW	26-02-2023
A	DRAFT FOR REVIEW	16-02-2023



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ARCHITECT

PROJECT

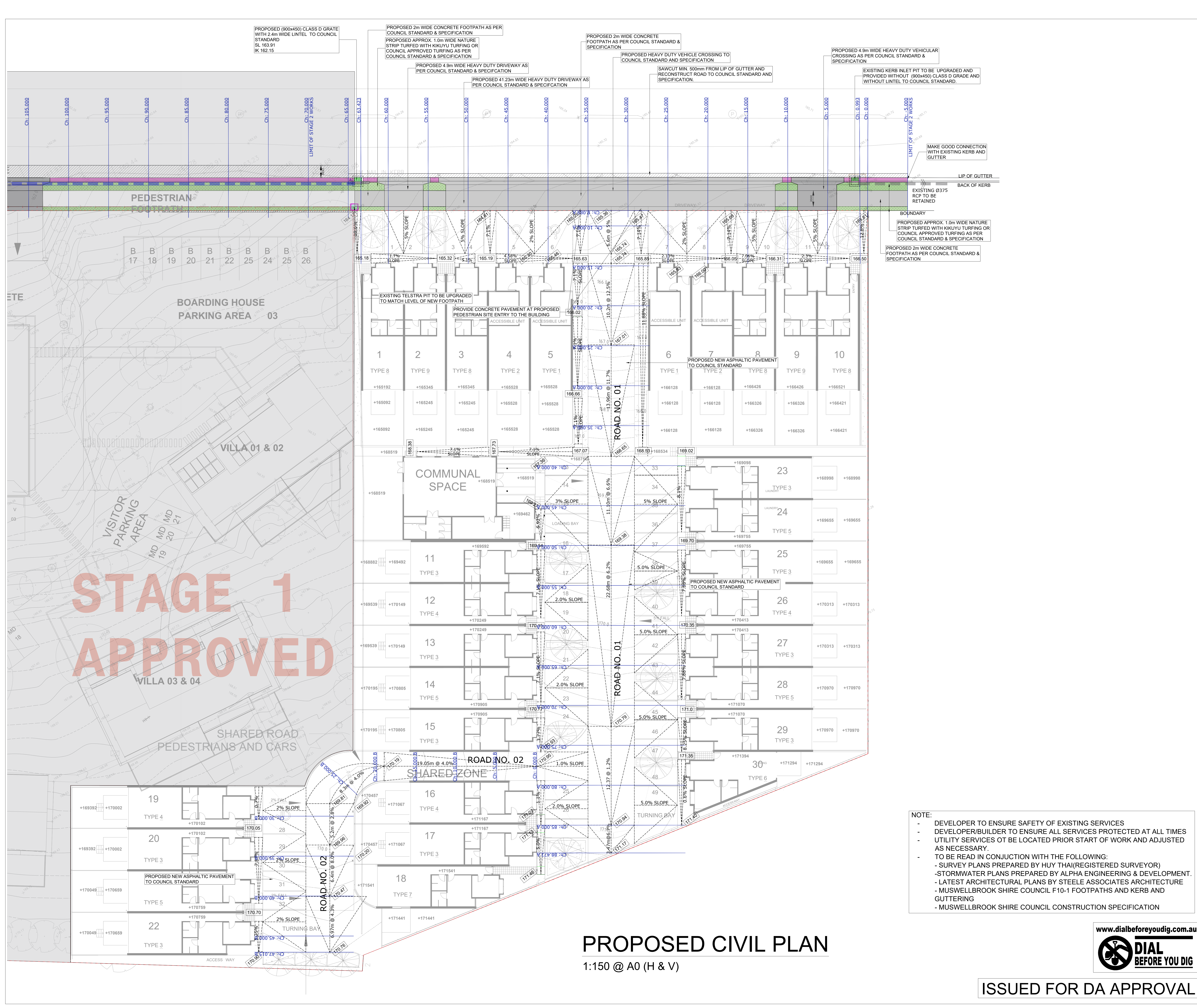
PROPOSED DEVELOPMENT
59 TINDALE STREET,
MUSWELLBROOK (STAGE 2)

DRAWING TITLE
BULK EARTHWORK PLAN

SCALES
AS SHOWN IN A0
DRAWING NO.
A22056 - CIV01

DESIGNED
DM
APPROVED
JM

DRAFTED
DM
REVISION
C



NOTES:
LOCATION OF THE SERVICES ARE AS PER DIAL BEFORE YOU DIG. BUILDER TO ENSURE THE EXACT LOCATIONS OF THE SERVICES PRIOR TO THE START OF ANY CONSTRUCTION WORK. BUILDER MUST CALL 'DIAL BEFORE YOU DIG' TO CONFIRM THE LOCATIONS OF THE EXISTING SERVICES.
IN THE EVENT THAT ANY SERVICES MAY BE AFFECTED WITH STRUCTURAL WORK, STRUCTURAL ENGINEER TO BE NOTIFIED AND CONSULTED IMMEDIATELY FOR REVIEWING THE STRUCTURAL DETAILS.

PHASES OF CONSTRUCTION:
STAGE 2: CHAINAGE 0 TO CHAINAGE 70 TO BE CONSTRUCTED IN STAGE 2 OF DEVELOPMENT IN 59 TINDALE STREET.

LEGENDS

	TELECOM CABLE AS PER DBYD
	TELE COMMUNICATION PIT
	POWER POLE
	PROPOSED DRIVEWAY
	ROAD RESTORATION WORK
	PROPOSED 150mm HIGH KERB & GUTTER
	PROPOSED CONCRETE/ASPHALT WORK
	PROPOSED TURFING WORK
	EXISTING PAVEMENT TO BE RETAINED
	164.225 PROPOSED SPOT ELEVATION
	MAJOR CONTOUR
	MINOR CONTOUR

NOTES:

- ALL UTILITY PIT LIDS SHALL FINISH FLUSH WITH FINISHED SURFACE LEVELS. ANY ADJUSTMENT OR RELOCATION MUST BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENT OF THE RELEVANT UTILITY AUTHORITY.
- ALL STREET LIGHTING UPGRADE WORKS MUST BE COMPLETED IN ACCORDANCE WITH THE COUNCIL APPROVED STREET LIGHTING PLANS.
- STREET LIGHTINGS TO BE PROVIDED AS PER LIGHTING DESIGN BY OTHERS
- INTERNAL DRIVEWAY AND CAR PARKING AREA MUST BE PAVED OR CONCRETED

NOTES:

- ALL UTILITY PIT LIDS SHALL FINISH FLUSH WITH FINISHED SURFACE LEVELS. ANY ADJUSTMENT OR RELOCATION MUST BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENT OF THE RELEVANT UTILITY AUTHORITY.
- ALL STREET LIGHTING UPGRADE WORKS MUST BE COMPLETED IN ACCORDANCE WITH THE COUNCIL APPROVED STREET LIGHTING PLANS.
- STREET LIGHTINGS TO BE PROVIDED AS PER LIGHTING DESIGN BY OTHERS
- INTERNAL DRIVEWAY AND CAR PARKING AREA MUST BE PAVED OR CONCRETED

REV	AMENDMENT	ISSUE DATE	ISSUE
C	ISSUED FOR DA APPROVAL	27-03-2023	
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A	DRAFT FOR REVIEW	16-02-2023	

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STEEL ASSOCIATES
ARCHITECTURE

PROJECT
PROPOSED DEVELOPMENT
59 TINDALE STREET, MUSWELLBROOK

DRAWING TITLE
PROPOSED CIVIL WORKS PLAN

SCALES AS SHOWN IN A0	DESIGNED DM	DRAFTED DM
DRAWING NO. A22056 - CIV02	APPROVED JM	REVISION C

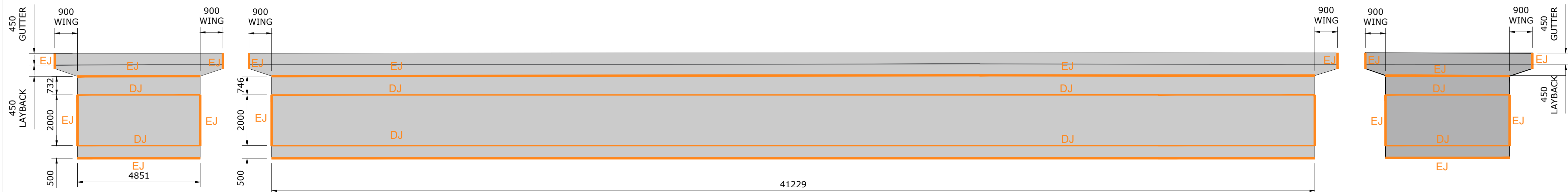
NOTE:

- DEVELOPER TO ENSURE SAFETY OF EXISTING SERVICES
- DEVELOPER/BUILDER TO ENSURE ALL SERVICES PROTECTED AT ALL TIMES
- UTILITY SERVICES OT BE LOCATED PRIOR START OF WORK AND ADJUSTED AS NECESSARY.
- TO BE READ IN CONJUNCTION WITH THE FOLLOWING:
 - SURVEY PLANS PREPARED BY HUY THAI(REGISTERED SURVEYOR)
 - STORMWATER PLANS PREPARED BY ALPHA ENGINEERING & DEVELOPMENT.
 - LATEST ARCHITECTURAL PLANS BY STEEL ASSOCIATES ARCHITECTURE
 - MUSWELLBROOK SHIRE COUNCIL F10-1 FOOTPATHS AND KERB AND GUTTERING
 - MUSWELLBROOK SHIRE COUNCIL CONSTRUCTION SPECIFICATION

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DIAL
BEFORE YOU DIG

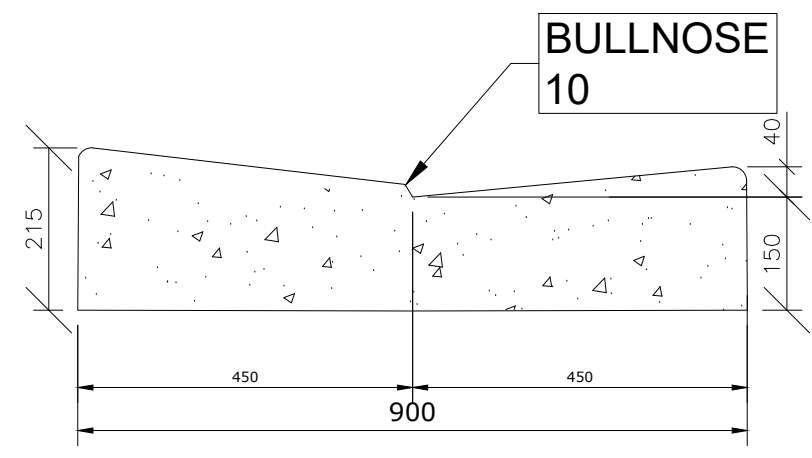
ISSUED FOR DA APPROVAL

PROPOSED CIVIL PLAN
1:150 @ A0 (H & V)

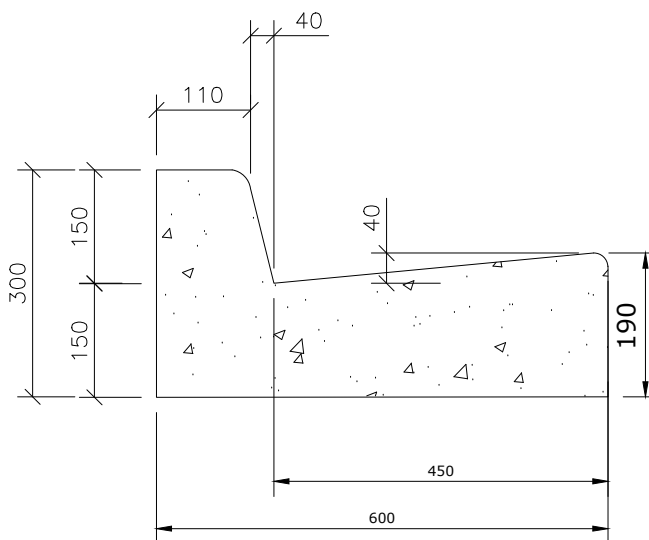


DJ = DUMMY JOINT
EJ = EXPANSION JOINT
1:100 @ A1

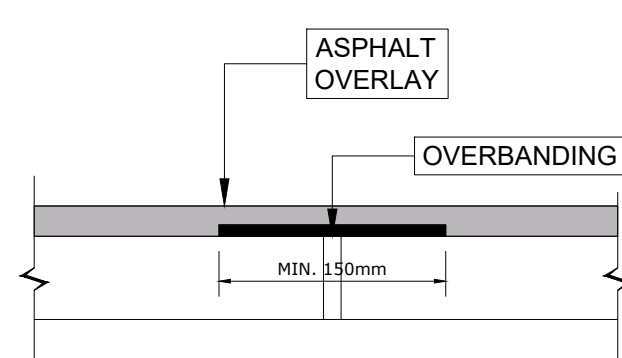
VEHICULAR CROSSING PLAN



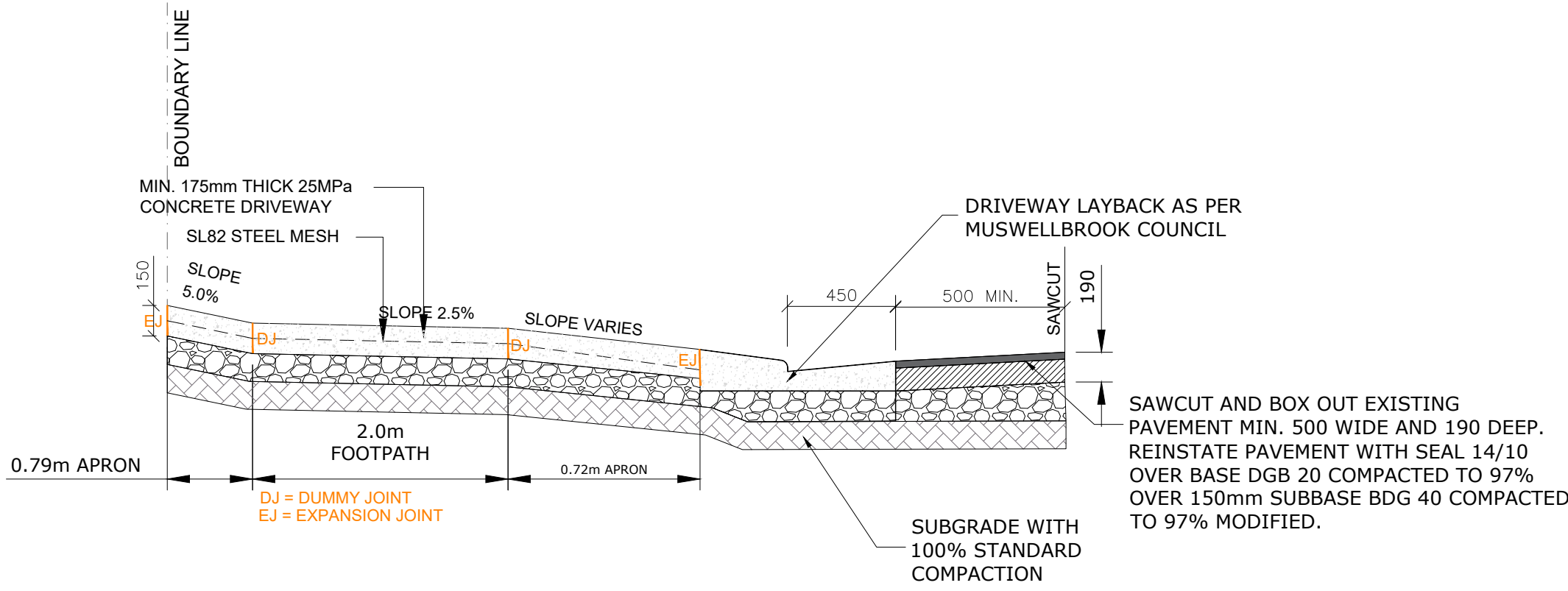
DRIVEWAY LAYBACK
(TYPICAL DETAIL)
NTS



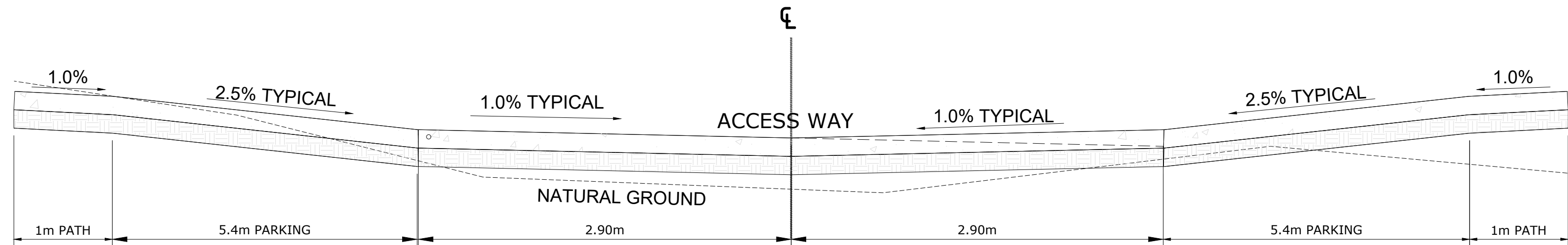
STANDARD KERB AND GUTTER
(TYPICAL DETAIL)
NTS



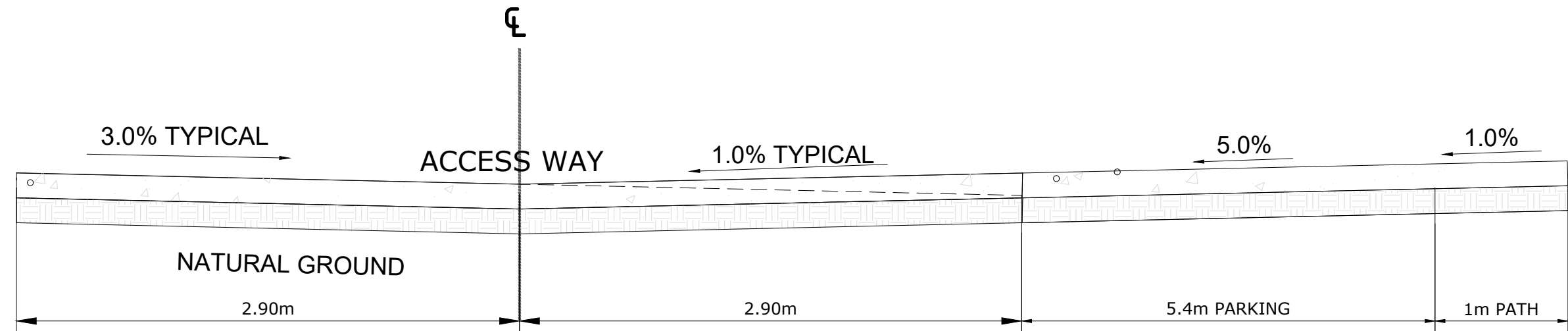
OVERBANDING CRACK SEALER
(TO BE PROVIDED OVER
ASPHALT CONSTRUCTION JOINT)
(NTS)



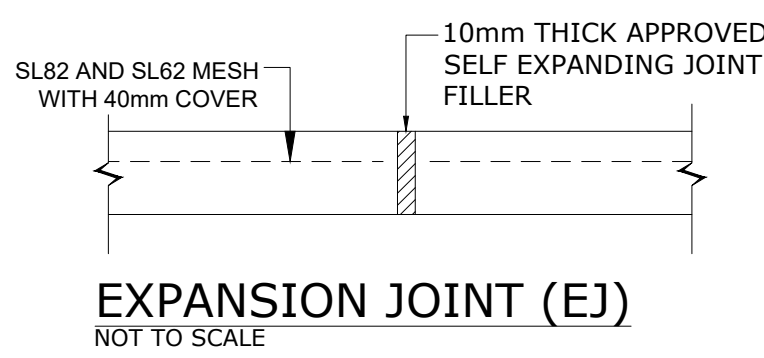
HEAVY DUTY VEHICULAR CROSSING
TYPICAL SECTION
SCALE NTS



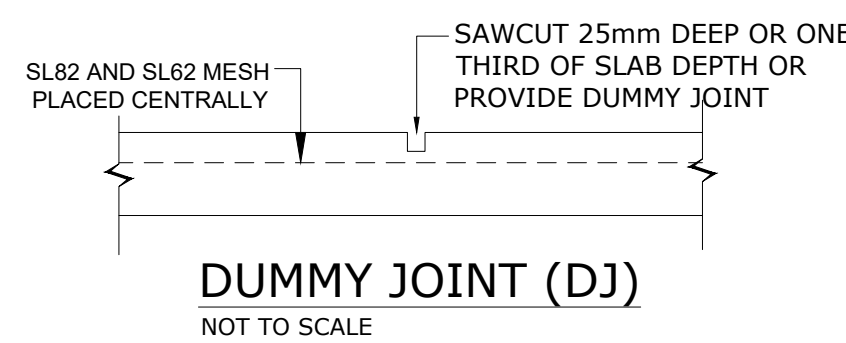
TYPICAL SECTION OF ROAD NO. 01
CONCRETE DRIVEWAY



TYPICAL SECTION OF ROAD NO. 01
CONCRETE DRIVEWAY



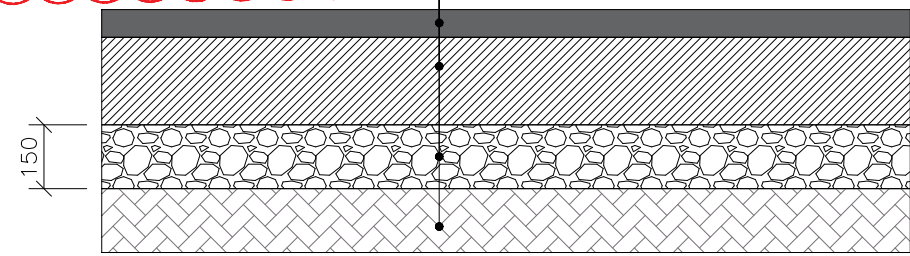
EXPANSION JOINT (EJ)
NOT TO SCALE



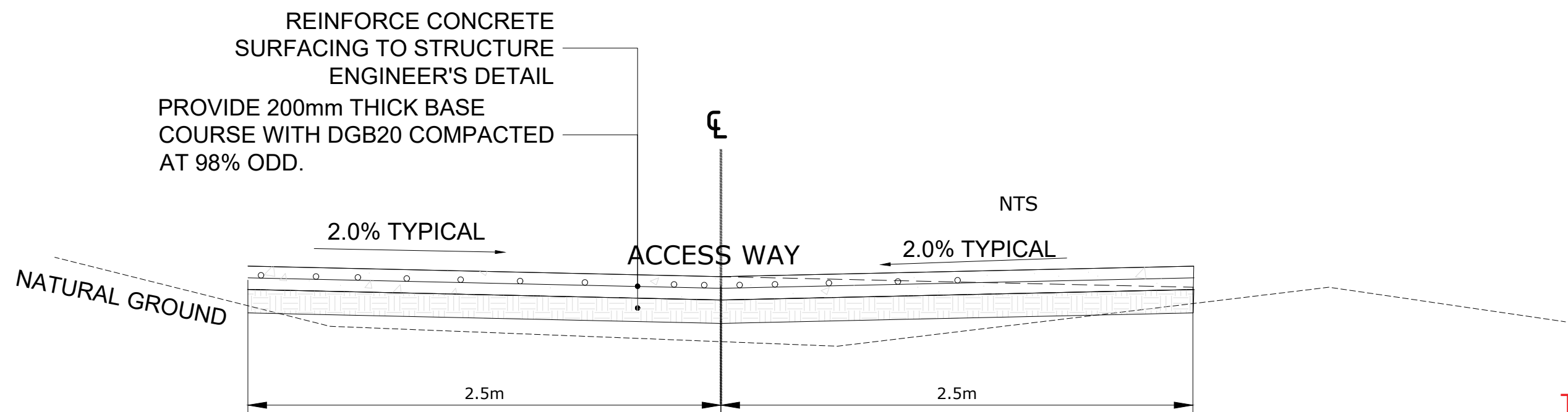
DUMMY JOINT (DJ)
NOT TO SCALE

TO BE CONFIRMED BY
PAVEMENT ENGINEER

SEAL 14/10 BITUMEN SEAL
BASE DGB 20 COMPACTED 97%
MODIFIED
150mm SUBBASE DGB 40
COMPACTED TO 97% MODIFIED
EXISTING SUBGRADE COMPACTED
TO 100% STANDARD



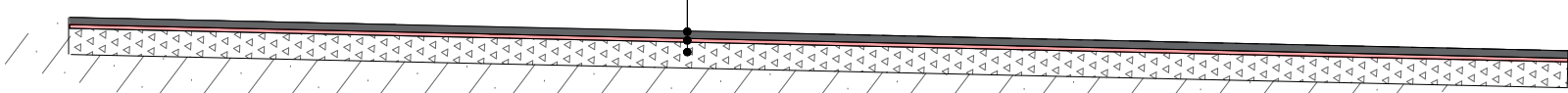
TYPICAL ROAD PAVEMENT SECTION DETAIL
ALONG TINDALE STREET
SCALE NTS



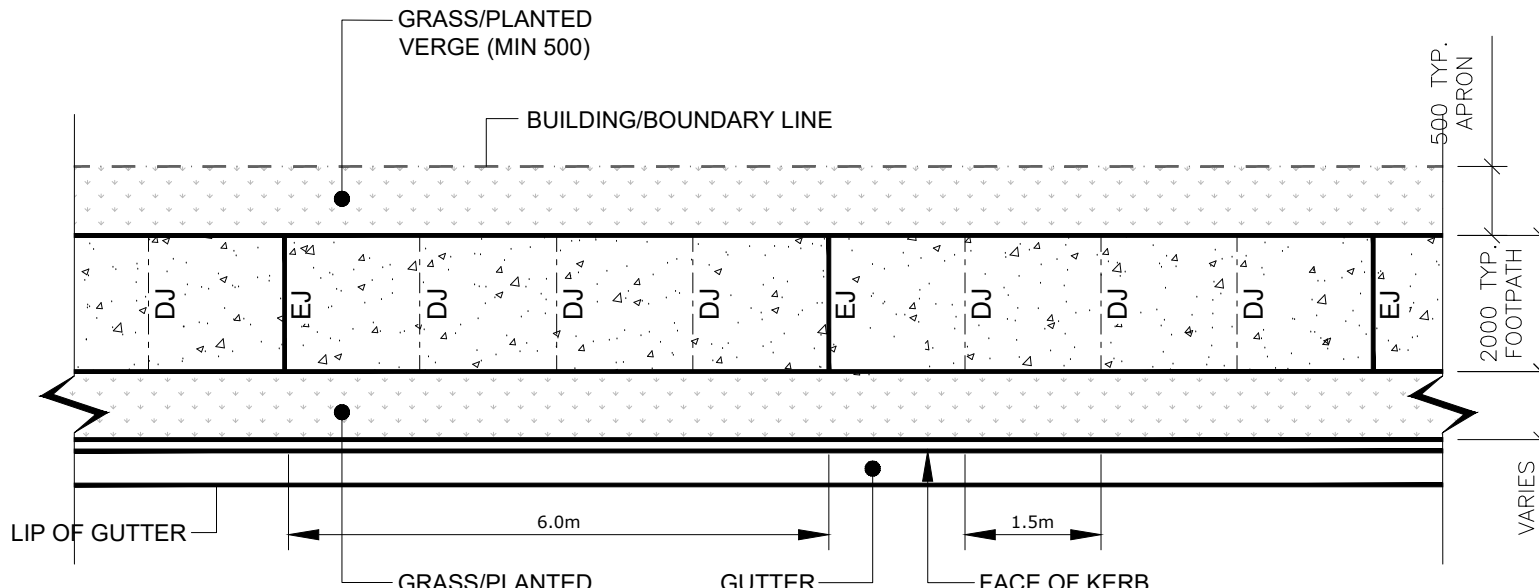
TYPICAL SECTION OF INTERNAL DRIVEWAY

TO BE CONFIRMED BY
PAVEMENT ENGINEER

WEARING COURSE OF 100mm THICK
RECYCLED ASPHALTIC CONCRETE
(10mm NOMINAL SIZE AGGREGATE)
7mm PRIMER SEAL OR SINGLE
COAT SEAL UNDER ALL ASPHALT
PROVIDE 250mm THICK BASE
COURSE WITH DGB2 COMPACTED
AT 98% ODD.



TYPICAL ASPHALT ACCESSWAY AND
PARKING
NTS



TYPICAL EXPANSION/CONSTRUCTION JOINT DETAIL PLAN
DJ - DUMMY JOINT
EJ - EXPANSION JOINT
NOT TO SCALE

DRIVEWAY SPECIFICATIONS

- ALL CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
- CONCRETE PAVING TO BE MIN. OF 125mm THICK 25MPa CONCRETE REINFORCED WITH ONE LAYER OF SL62 FABRIC PLACED IN THE UPPER HALF OF THE CONCRETE (MIN. COVER 40mm)
- "HEAVY DUTY" CROSSINGS TO BE A MIN. OF 175mm THICK 25MPa CONCRETE REINFORCED WITH ONE LAYER OF SL62 FABRIC PLACED IN THE UPPER HALF OF THE CONCRETE (MIN. COVER 40mm)
- FULL APRON TYPE DRIVEWAY SHALL BE CONSTRUCTED FROM DRIVEWAY LAYBACK TO PROPERTY BOUNDARY.
- THE CROSS SLOPE OF THE DRIVEWAY CROSSING OVER THE FOOTWAY WITHIN 3m. OF THE KERB LINE IS TO BE THE SAME AS THE SLOPE OF THE ABUTTING KERB AND GUTTER.

FOOTPATH SPECIFICATIONS

- ALL CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 20MPa AT 28 DAYS.
- STANDARD CONCRETE FOOTPATHS AND CYCLEWAYS SHALL BE MINIMUM OF 100mm THICK, REINFORCED WITH SL62 MESH AND OTHERWISE GENERALLY ACCORDANCE WITH CEMENT AND CONCRETE ASSOCIATION GUIDE TO RESIDENTIAL STREETS AND PATHS.
- FOOTPATHS AND CYCLEPATHS ACROSS DRIVEWAYS SHALL BE STRENGTHENED FOR THE FULL WIDTH OF THE DRIVE GENERALLY IN ACCORDANCE WITH CEMENT AND CONCRETE ASSOCIATION GUIDE TO RESIDENTIAL STREETS AND PATHS.
- CONCRETE SHALL BE FINISHED WITH A LIGHT BROOM FINISH.



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REVISION	AMENDMENT	ISSUE DATE



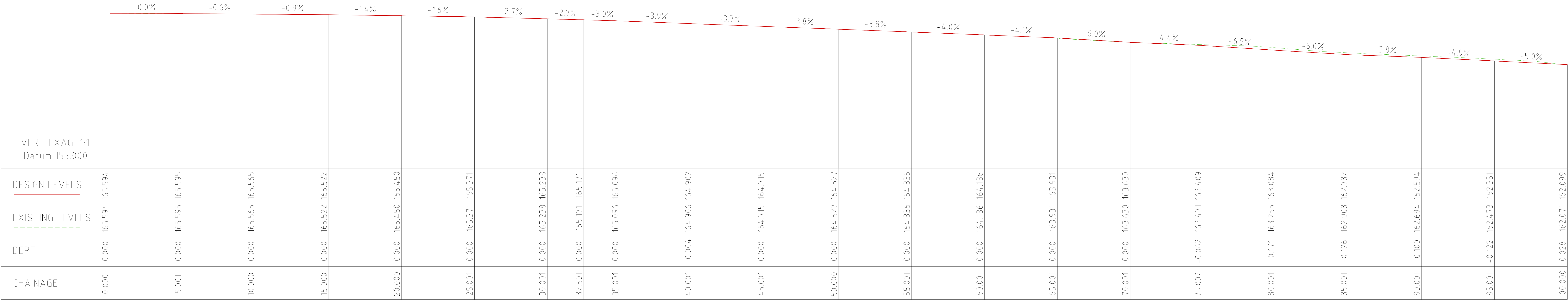
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ARCHITECT
PROJECT
PROPOSED DEVELOPMENT
59 TINDALE STREET,
MUSWELLBROOK (STAGE 2)

DRAWING TITLE TYPICAL CIVIL WORK SECTIONS AND DETAILS		
SCALES AS SHOWN IN A0	DESIGNED DM	DRAFTED DM
DRAWING NO. A22056 - CIV03	APPROVED JM	REVISION C



LIP OF GUTTER LONGITUDINAL SECTION
1:100 @ A0 (H & V)

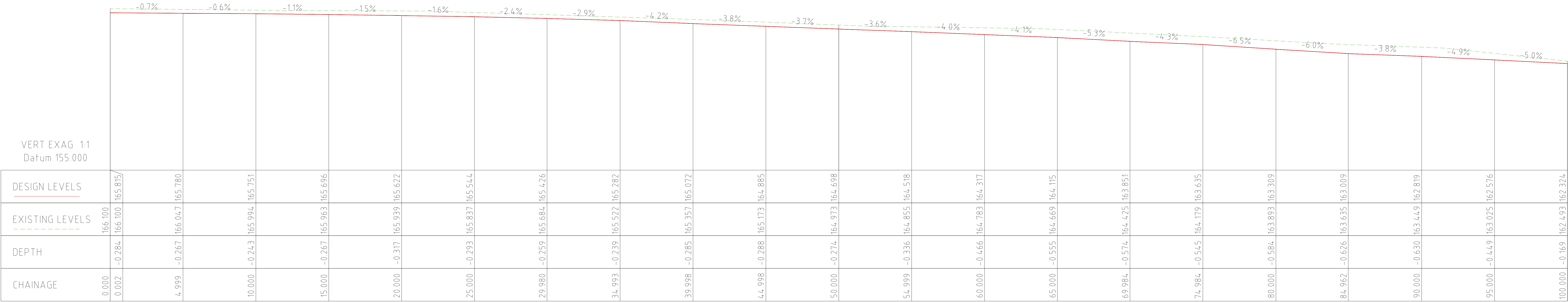


FRONT OF FOOTPATH LONGITUDINAL SECTION
1:100 @ A0 (H & V)

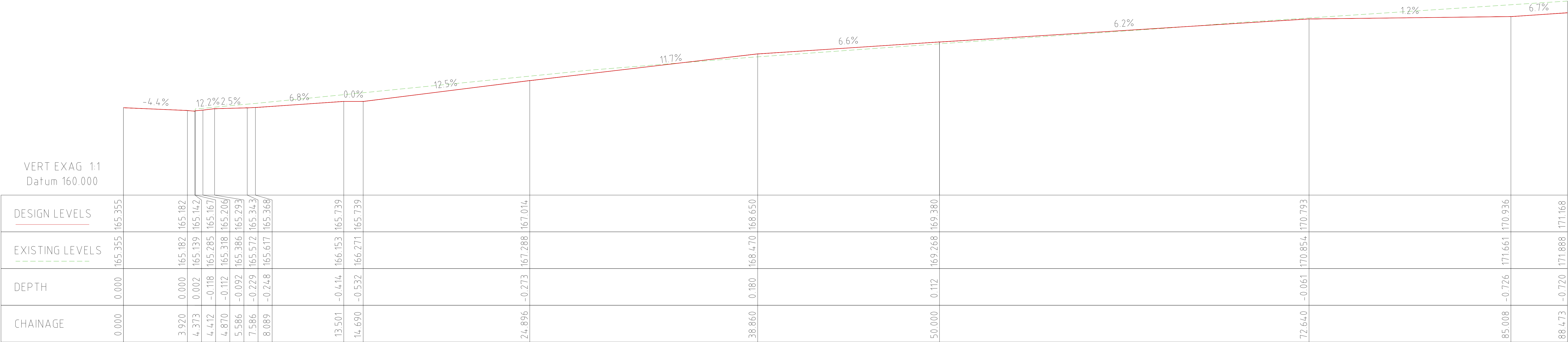


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									LONGITUDINAL SECTION (SHEET 1 OF 2)		
									SCALES	DESIGNED	DRAFTED
C	ISSUED FOR DA APPROVAL	27-03-2023							AS SHOWN IN A0	DM	DM
B	DRAFT FOR REVIEW	26-02-2023									
A	DRAFT FOR REVIEW	16-02-2023							DRAWING NO.	APPROVED	REVISION
REVISION	AMENDMENT	ISSUE DATE							A22056 - CIV04	JM	C



BOUNDARY LONGITUDINAL SECTION
1:100 @ A0 (H & V)



ROAD 01 LONGITUDINAL SECTION
1:100 @ A0 (H & V)



ROAD 02 LONGITUDINAL SECTION
1:100 @ A0 (H & V)



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C	ISSUED FOR DA APPROVAL	27-03-2023
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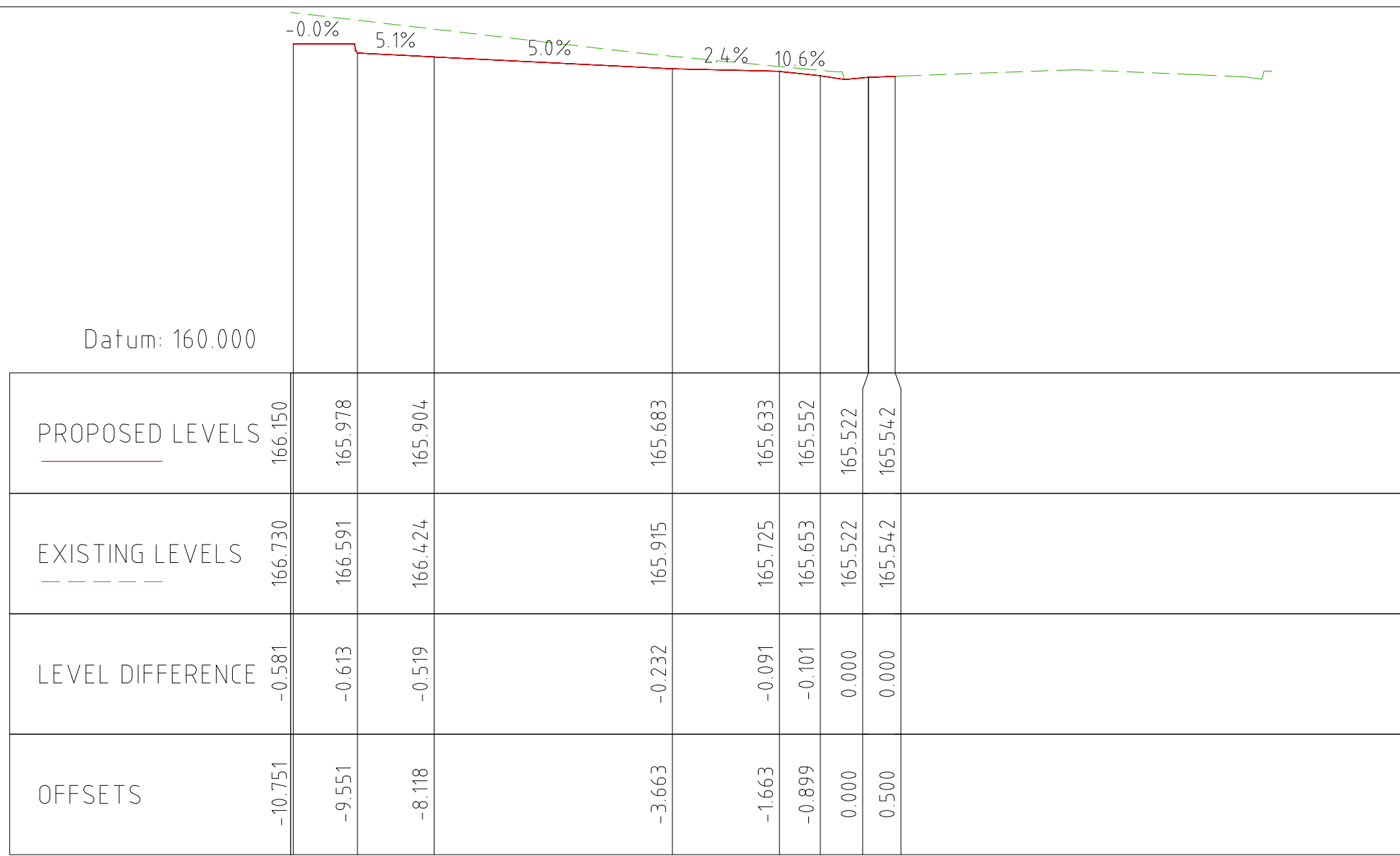
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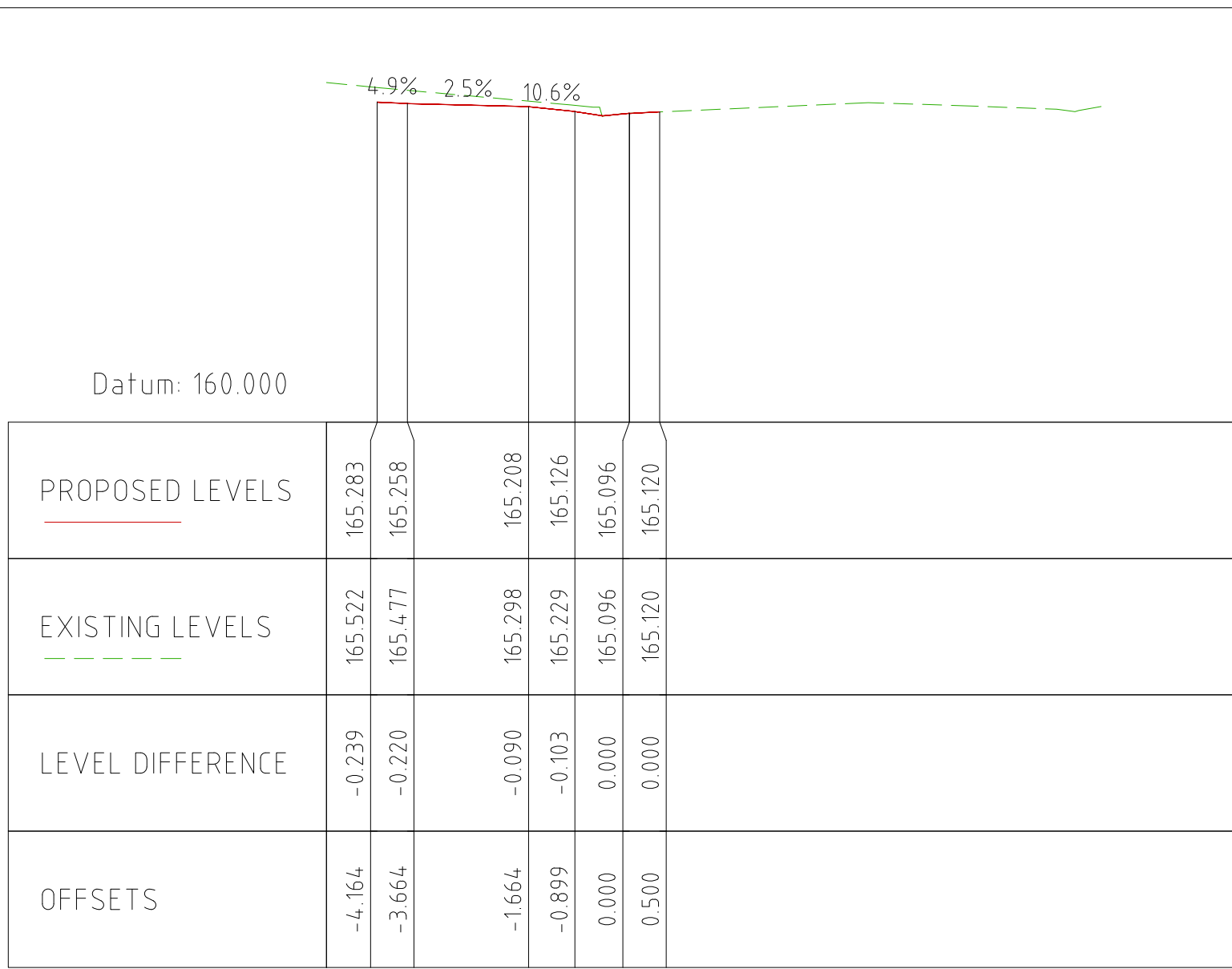
PROJECT
PROPOSED DEVELOPMENT
59 TINDALE STREET,
MUSWELLBROOK (STAGE 2)

DRAWING TITLE
LONGITUDINAL SECTION
(SHEET 2 OF 2)

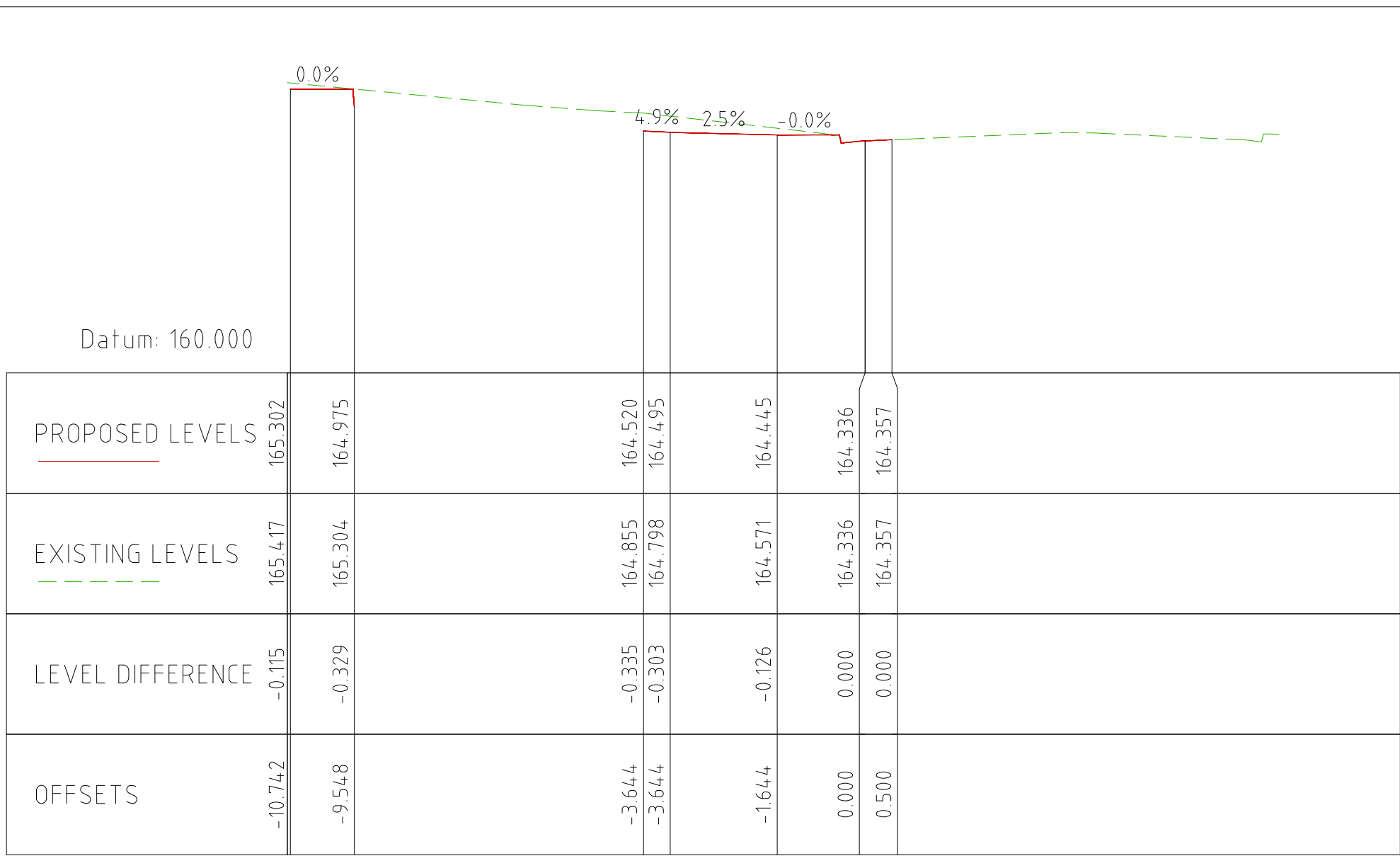
SCALES AS SHOWN IN A0	DESIGNED DM	DRAFTED DM
DRAWING NO. A22056 - CIV05	APPROVED JM	REVISION C



Chainage 15.000



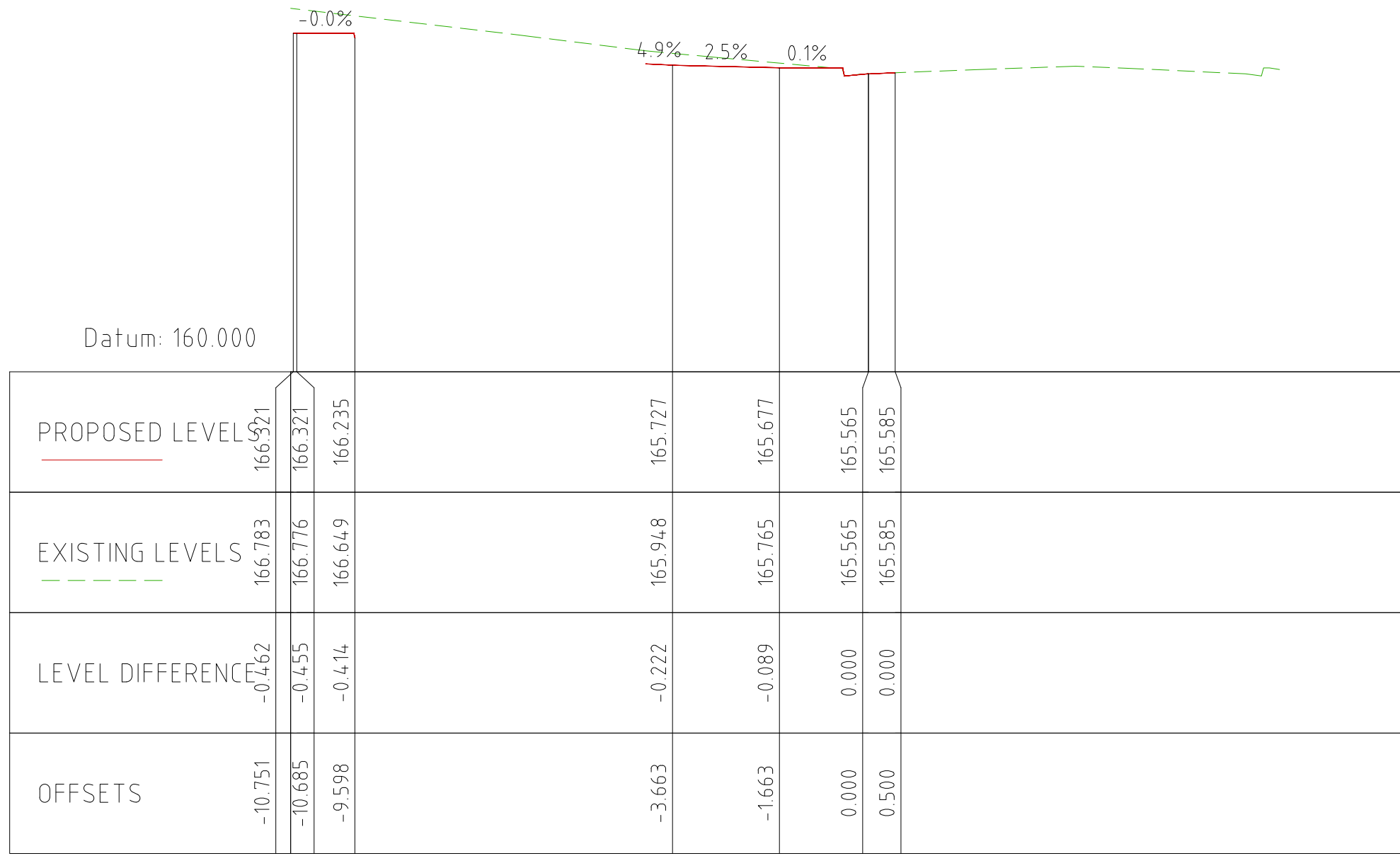
Chainage 35.000



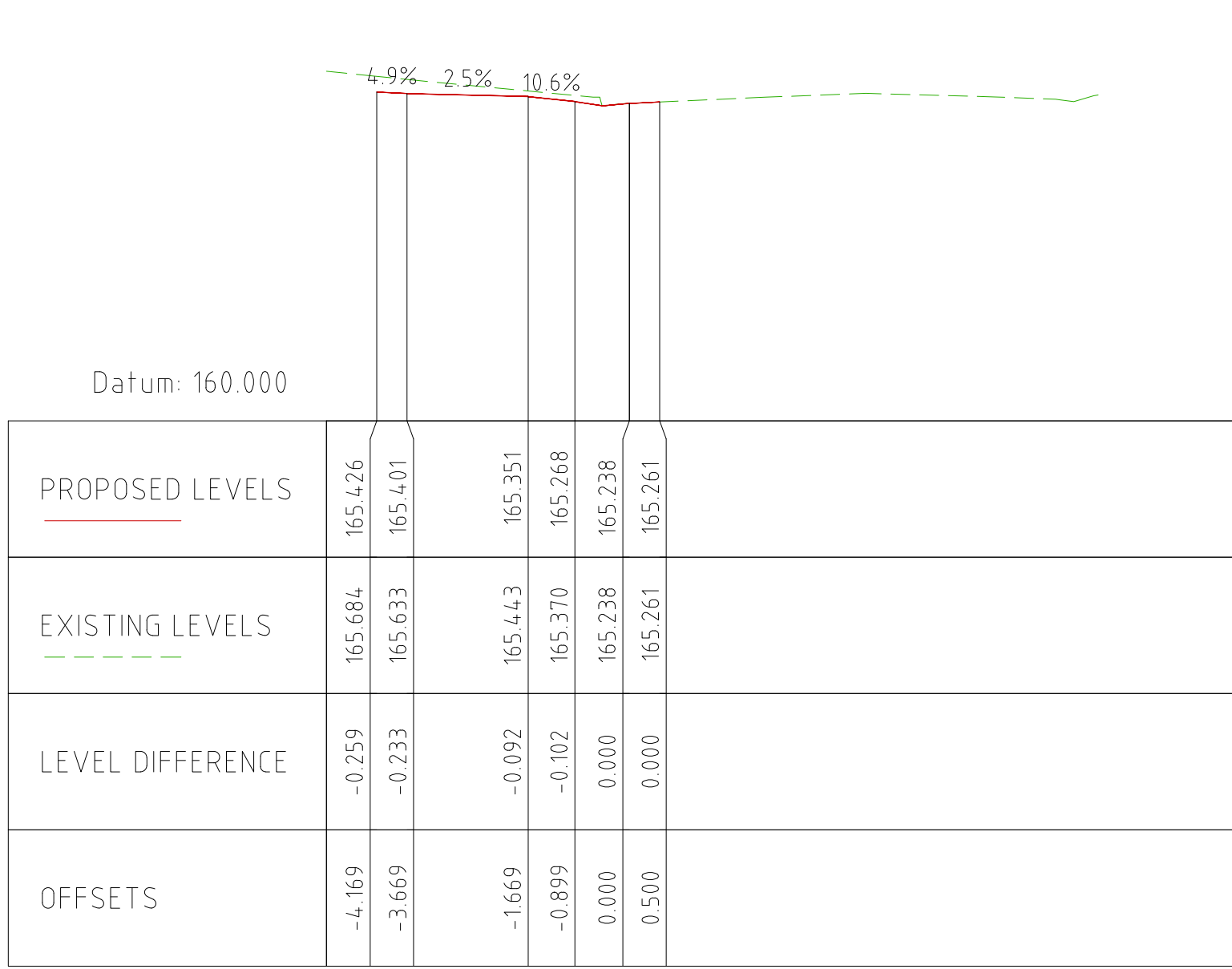
Chainage 55.000



Chainage 70.000



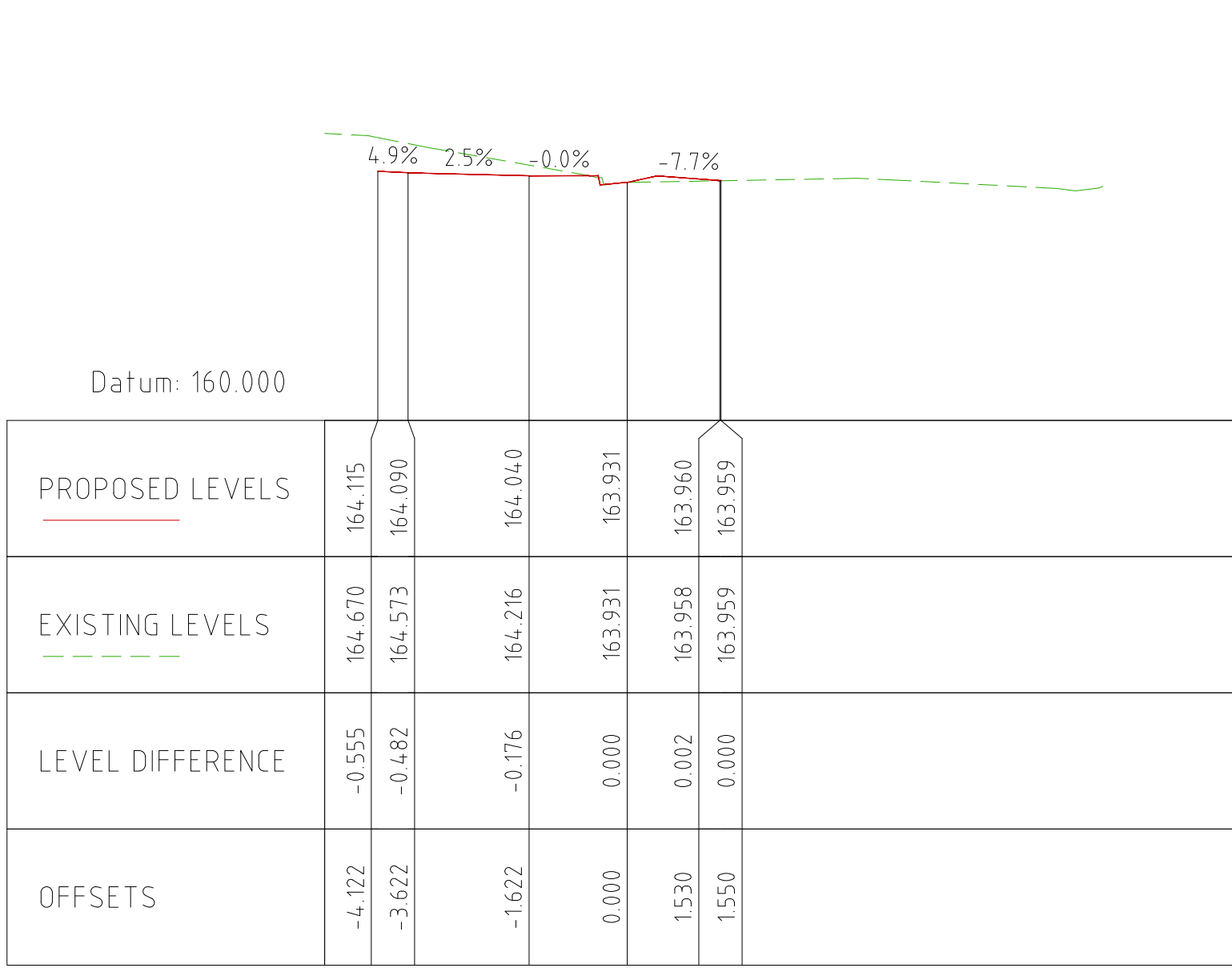
Chainage 10.000



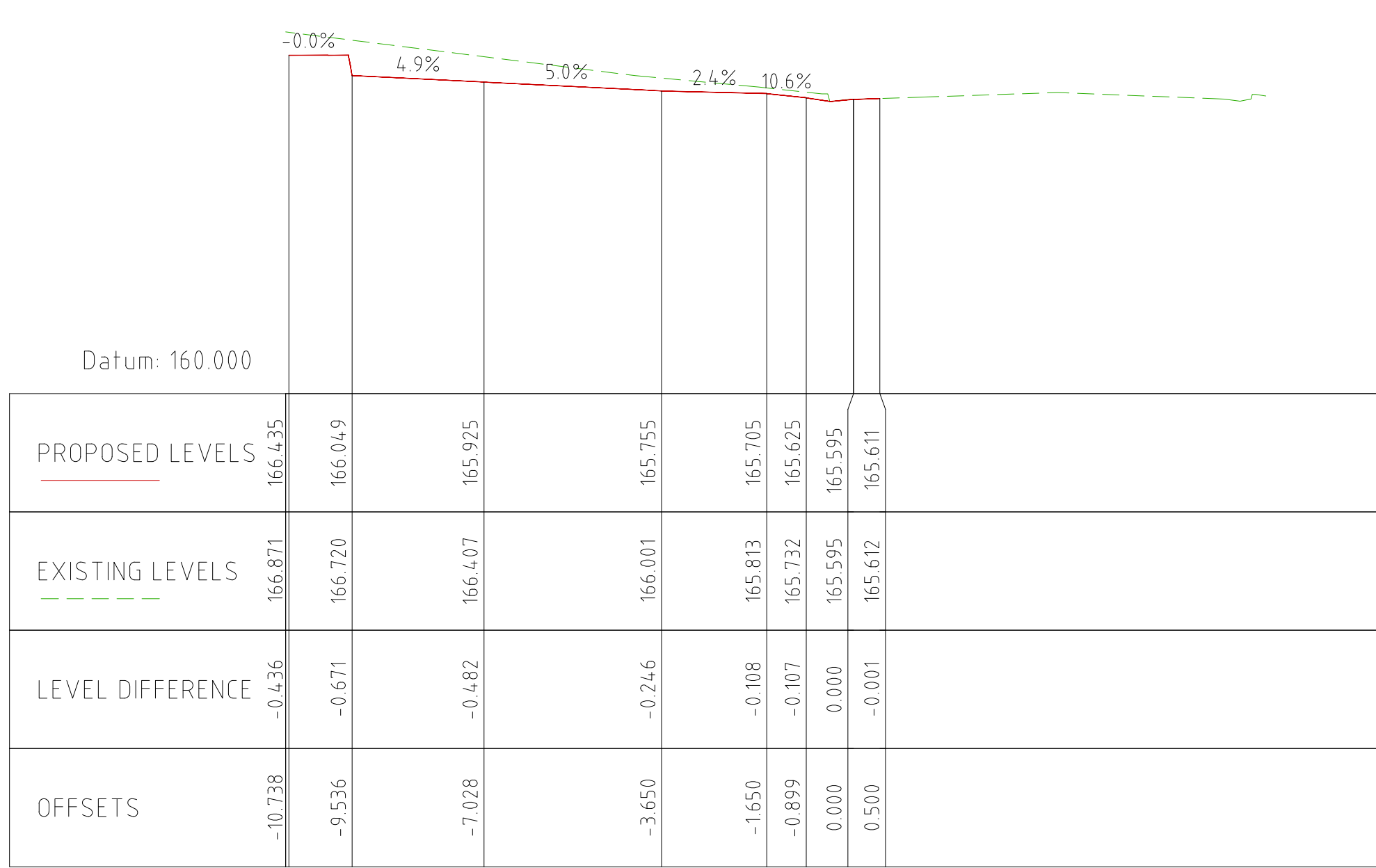
Chainage 30.000



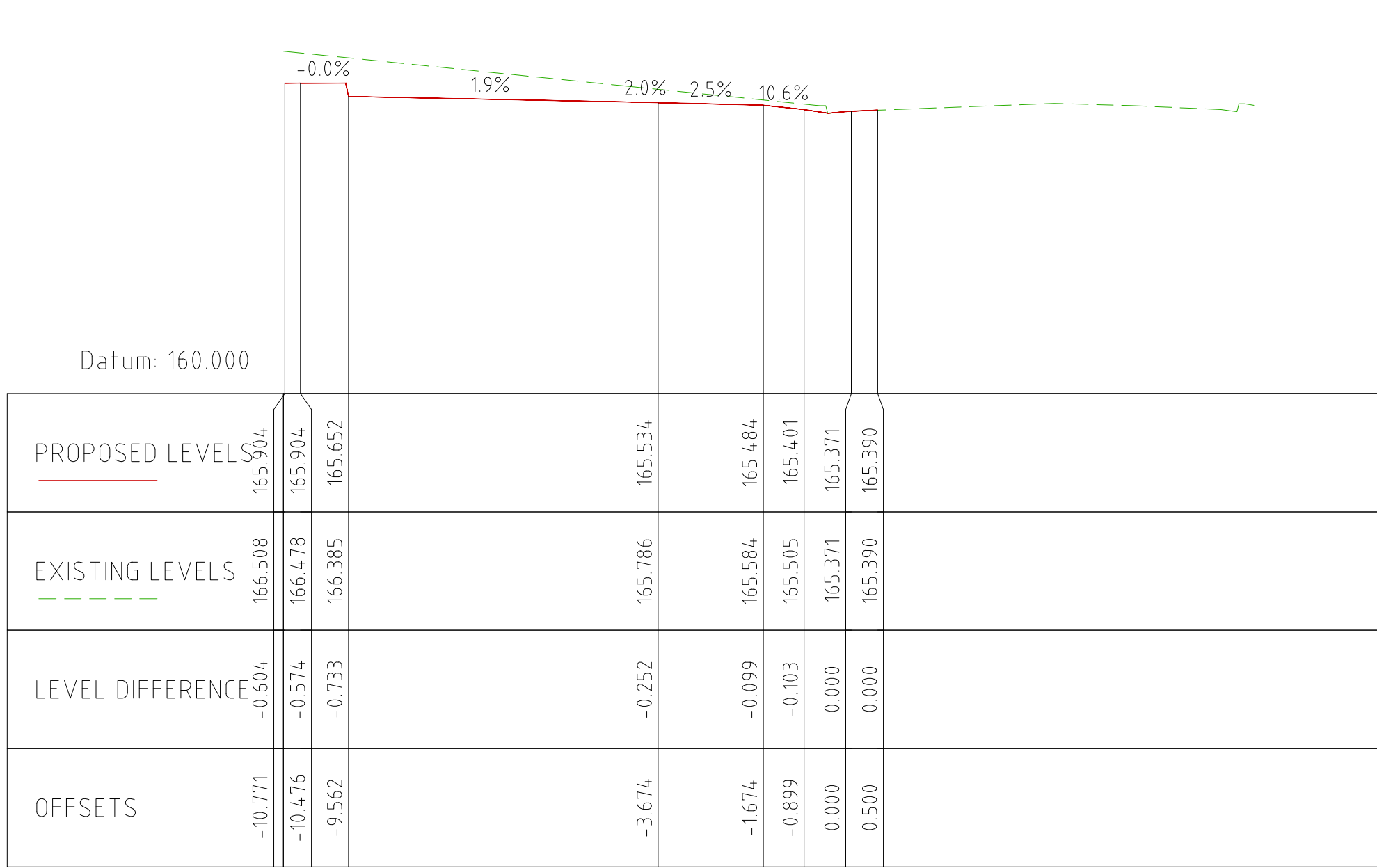
Chainage 50.000



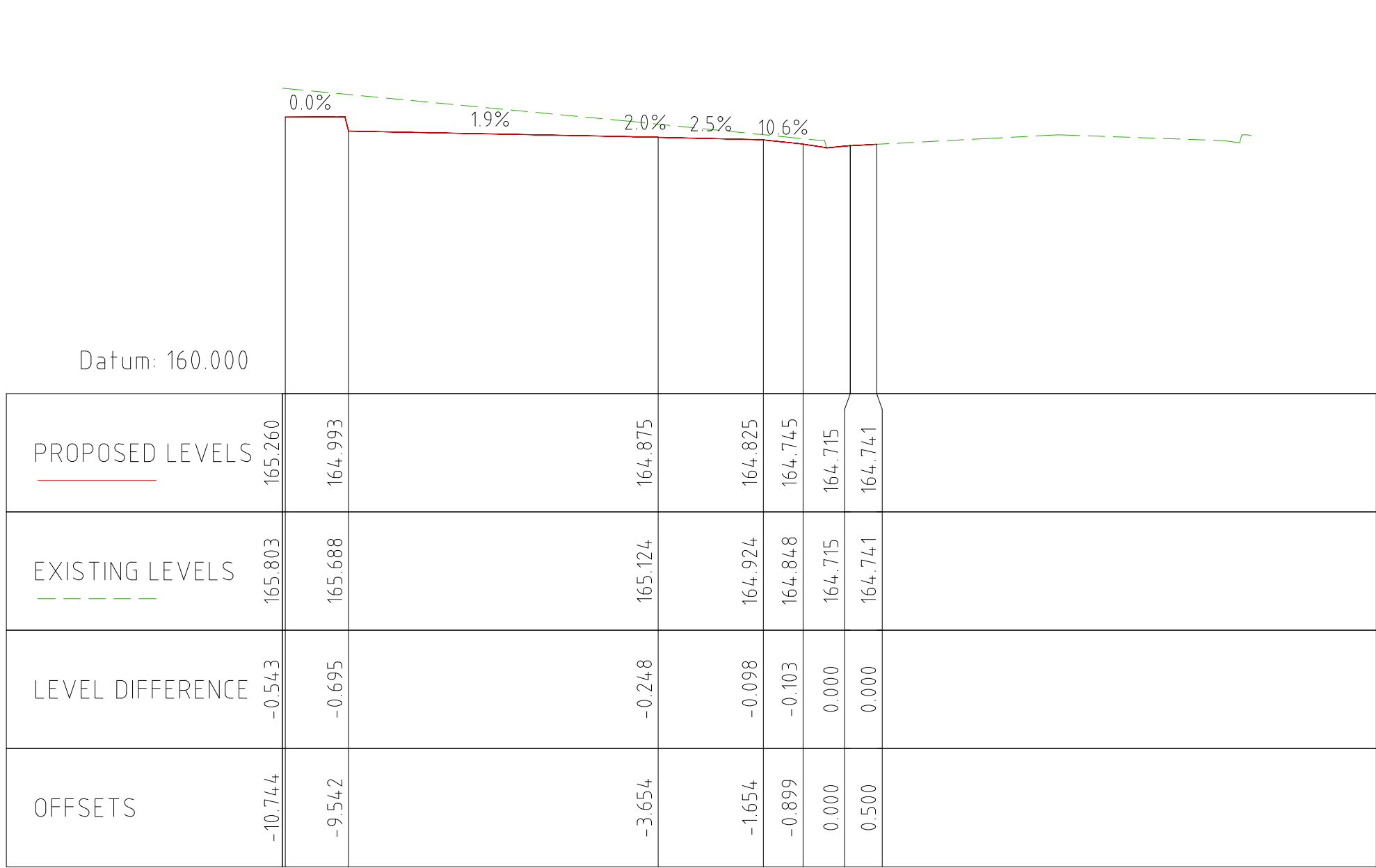
Chainage 65.000



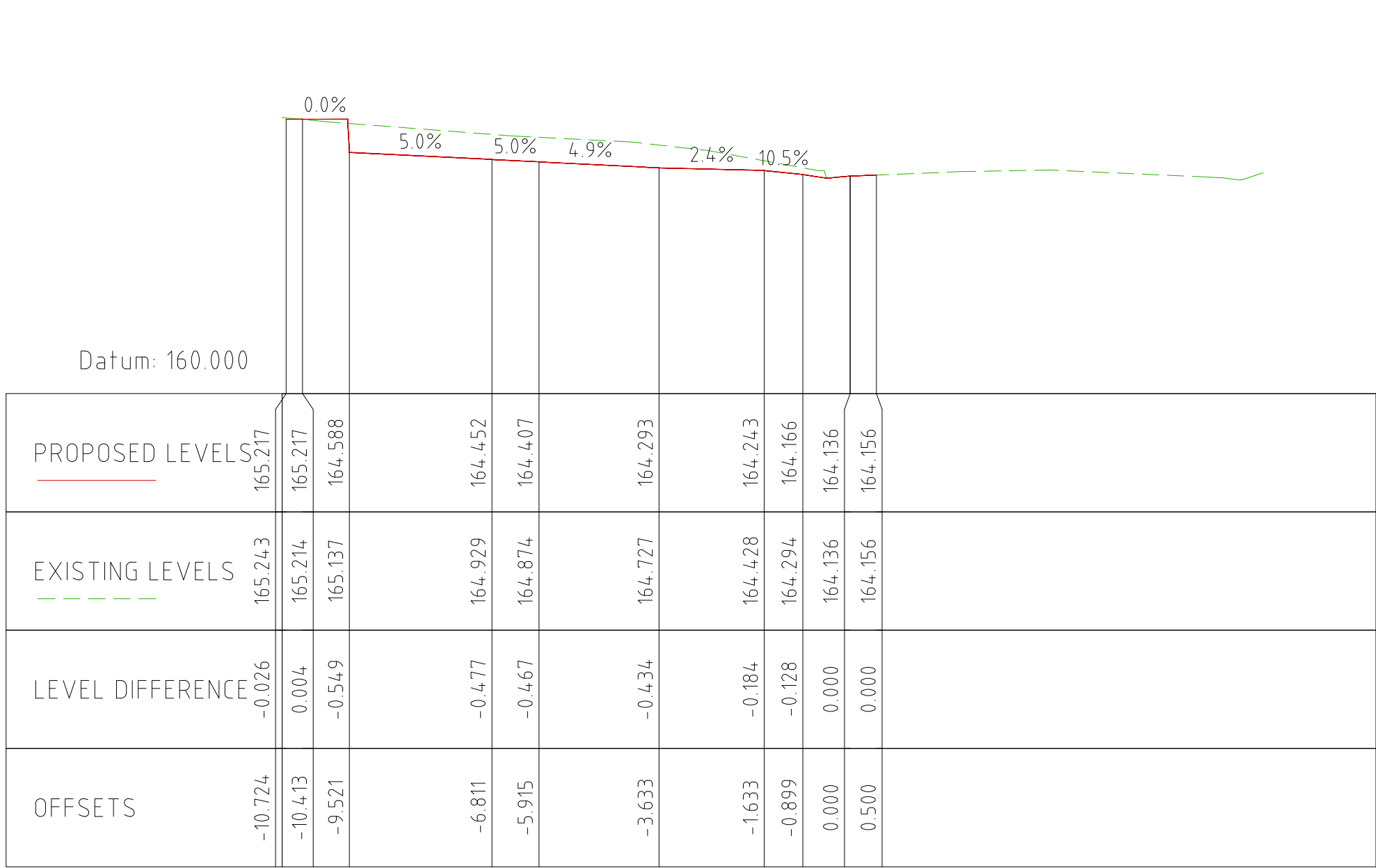
Chainage 05.000



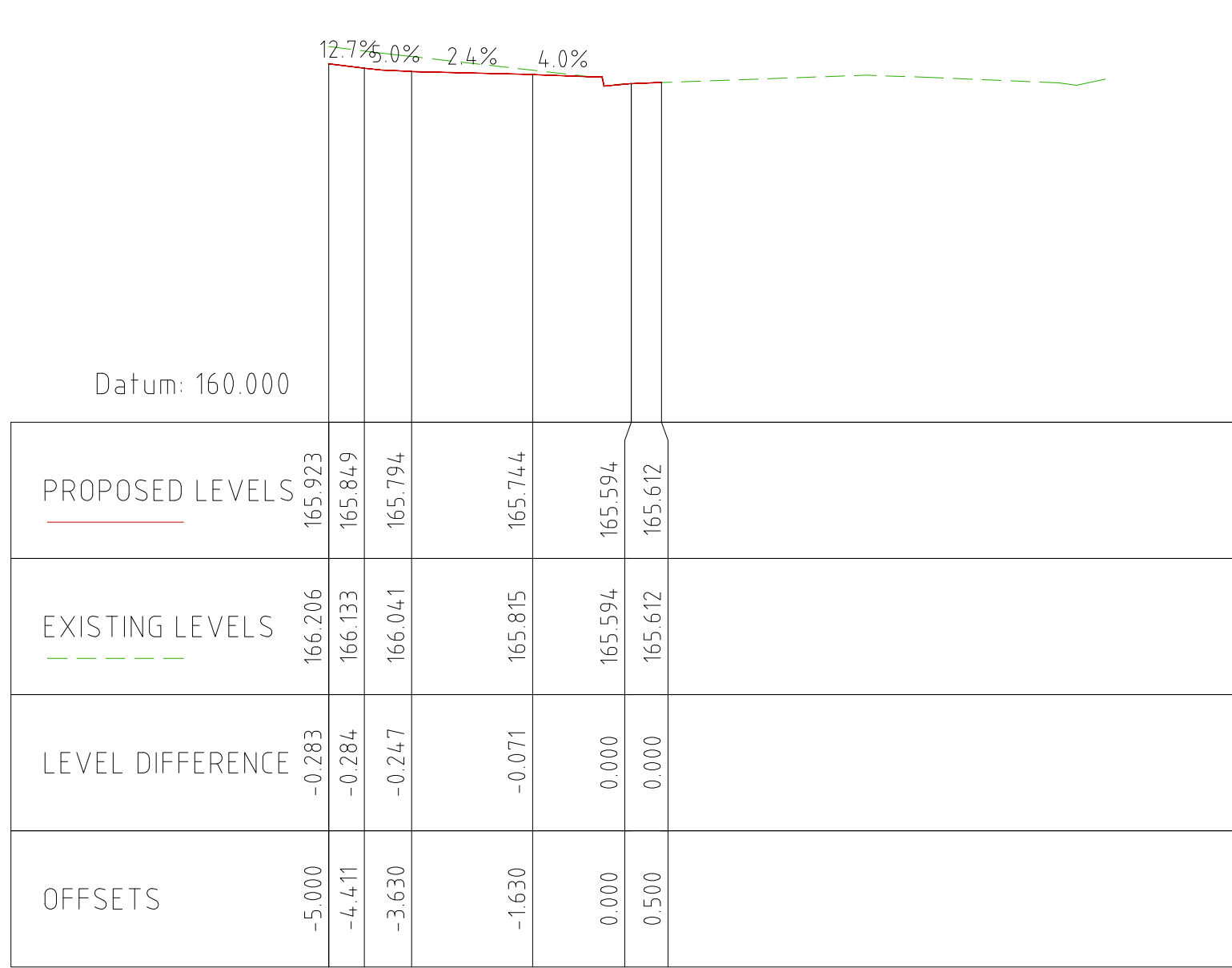
Chainage 25.000



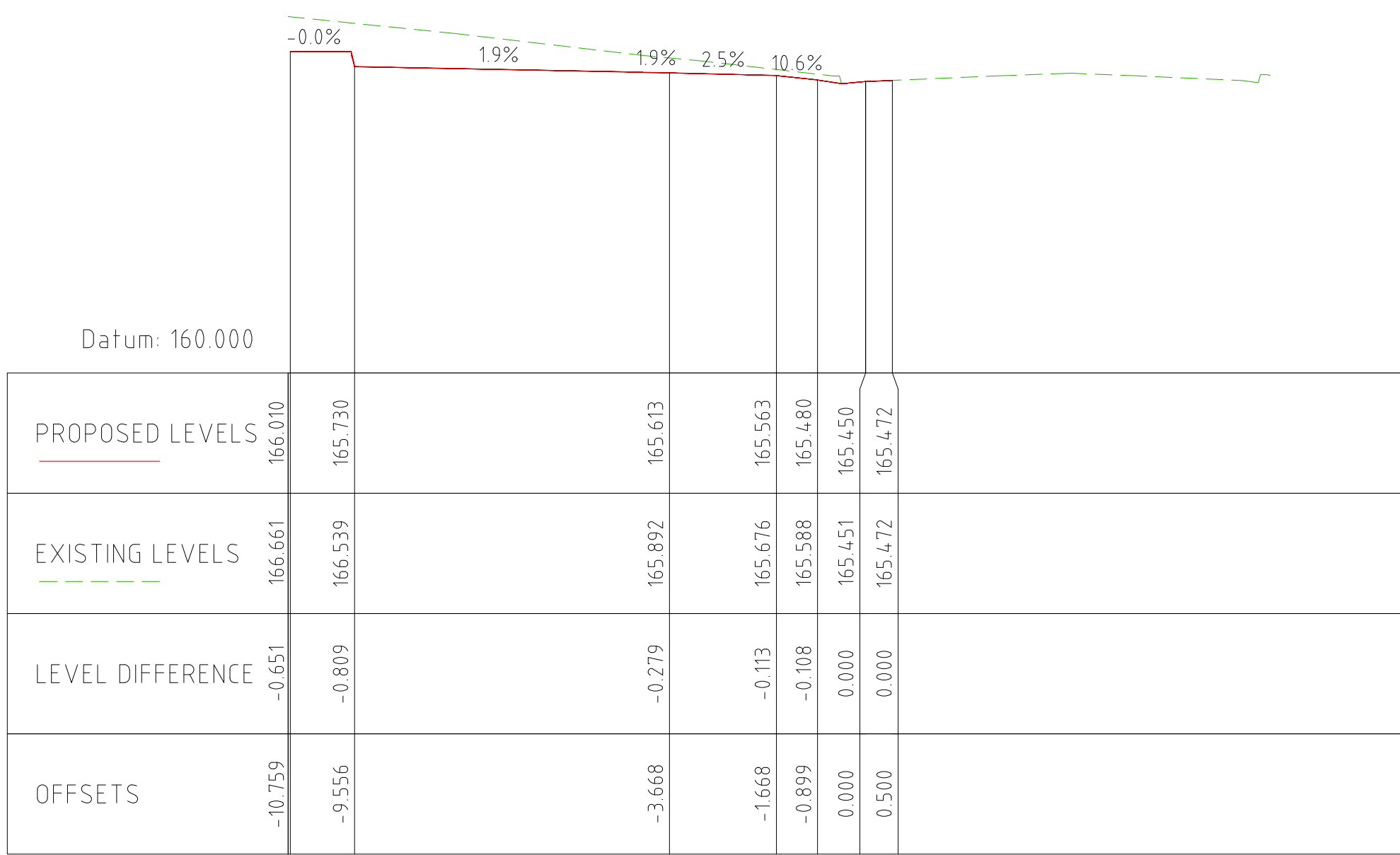
Chainage 45.000



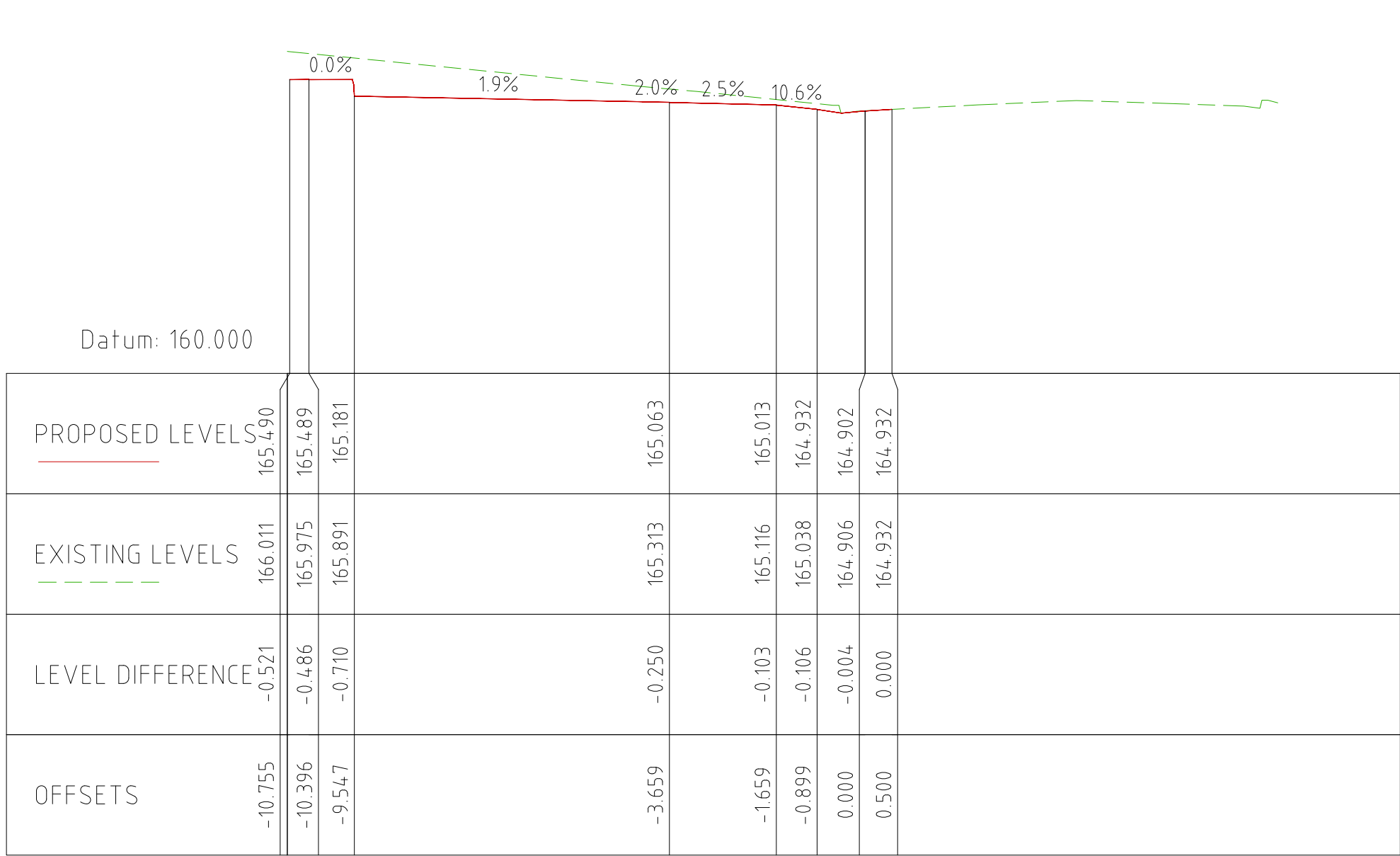
Chainage 60.000



Chainage 00.000



Chainage 20.000



Chainage 40.000

TINDALE STREET FOOTPATH CROSS SECTIONS

1:100 @ A0 (H & V)



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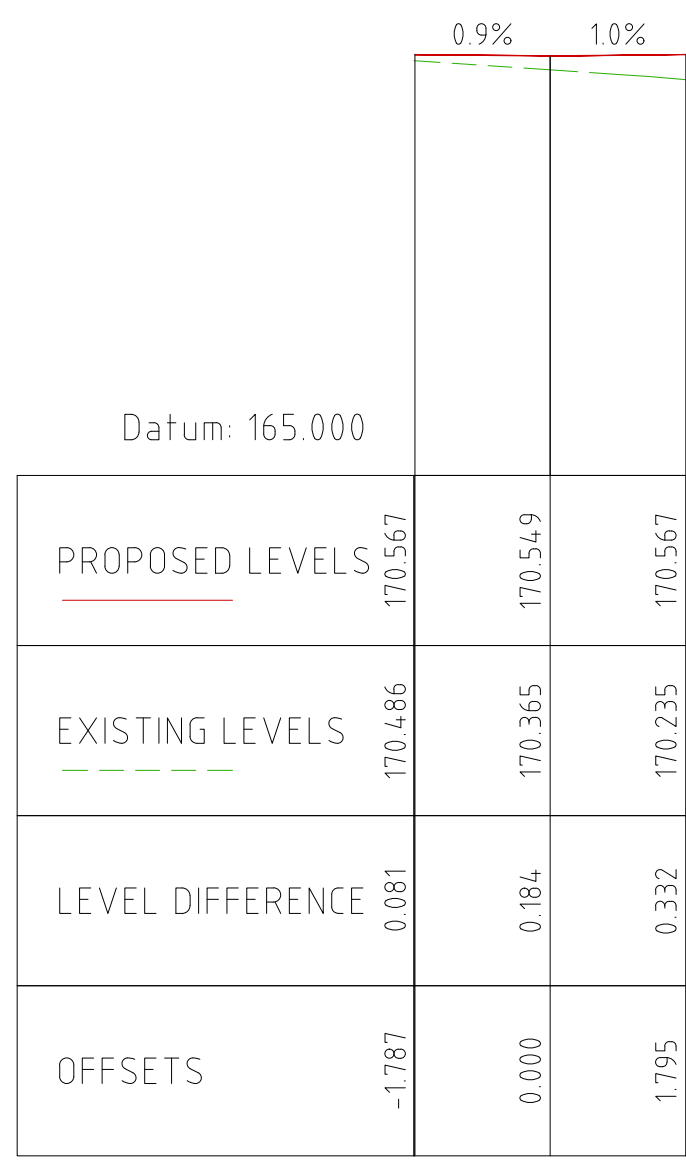
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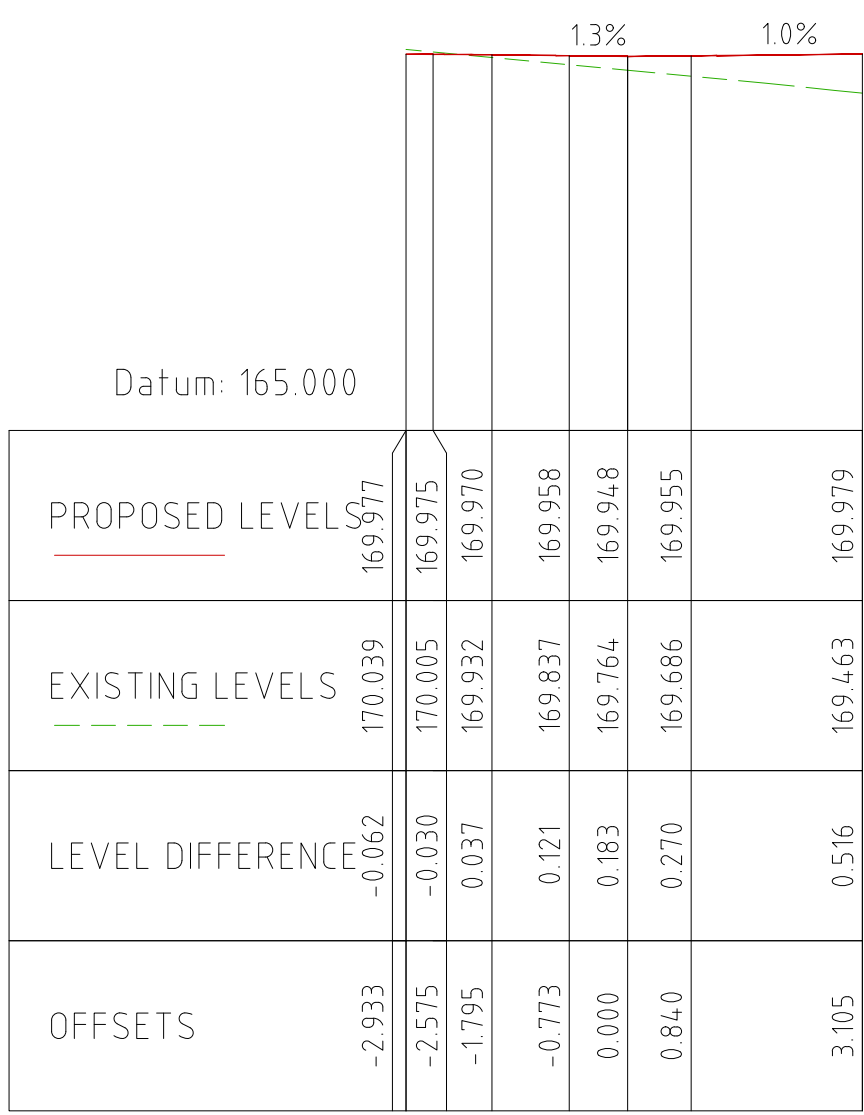
ARCHITECT

PROJECT
PROPOSED DEVELOPMENT
59 TINDALE STREET,
MUSWELLBROOK (STAGE 2)

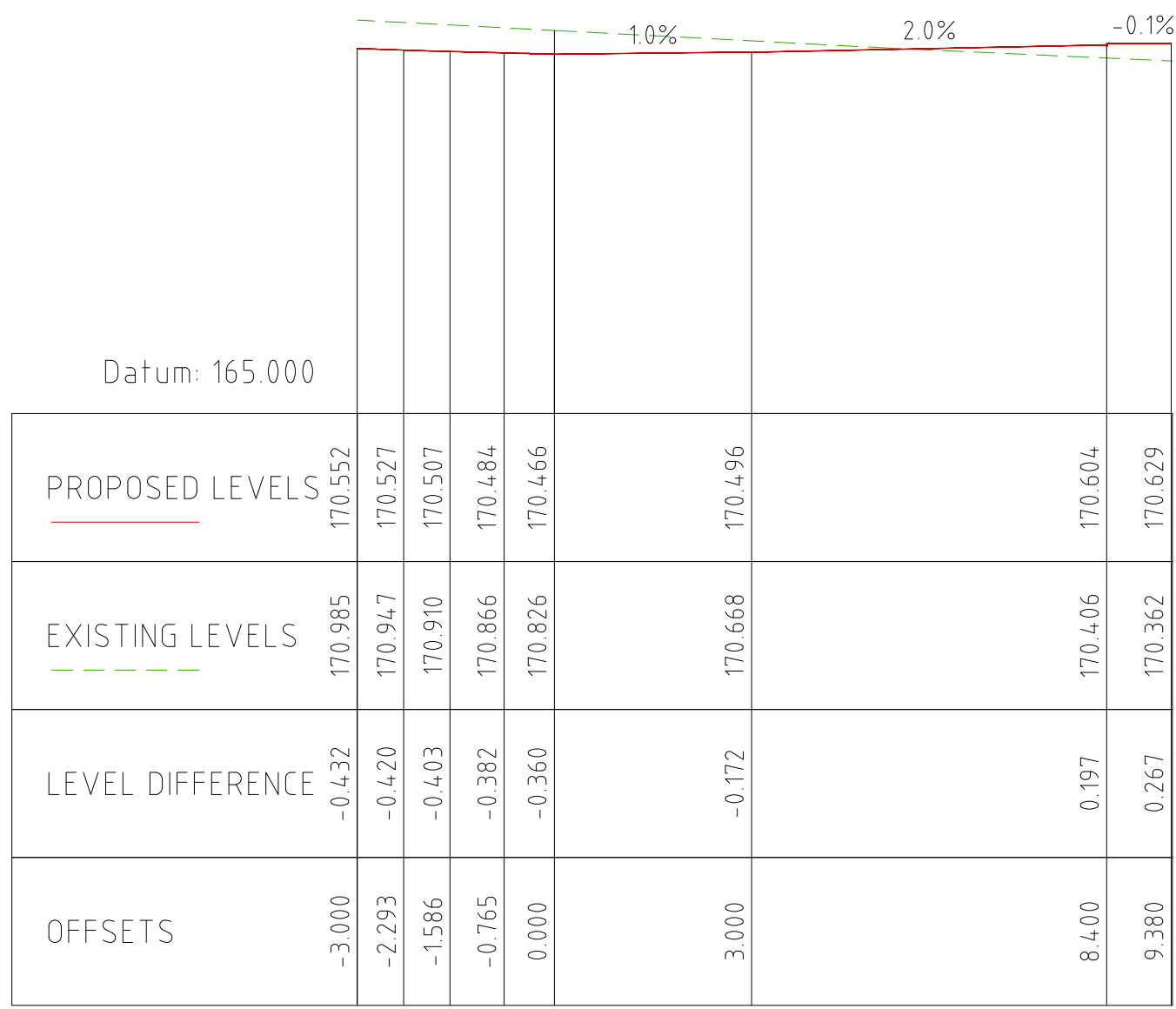
DRAWING TITLE TINDALE STREET FOOTPATH CROSS SECTIONS		
SCALES AS SHOWN IN A0	DESIGNED DM	DRAFTED DM
DRAWING NO. A22056 - CIV06	APPROVED JM	REVISION C



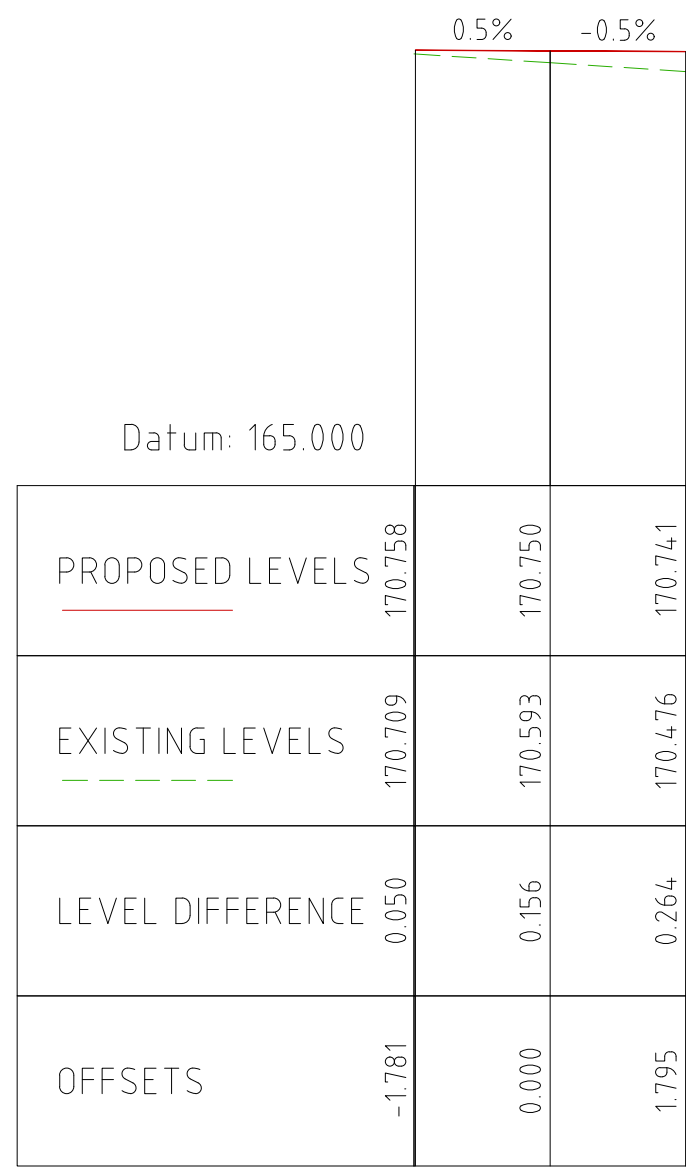
Chainage 10.000 B



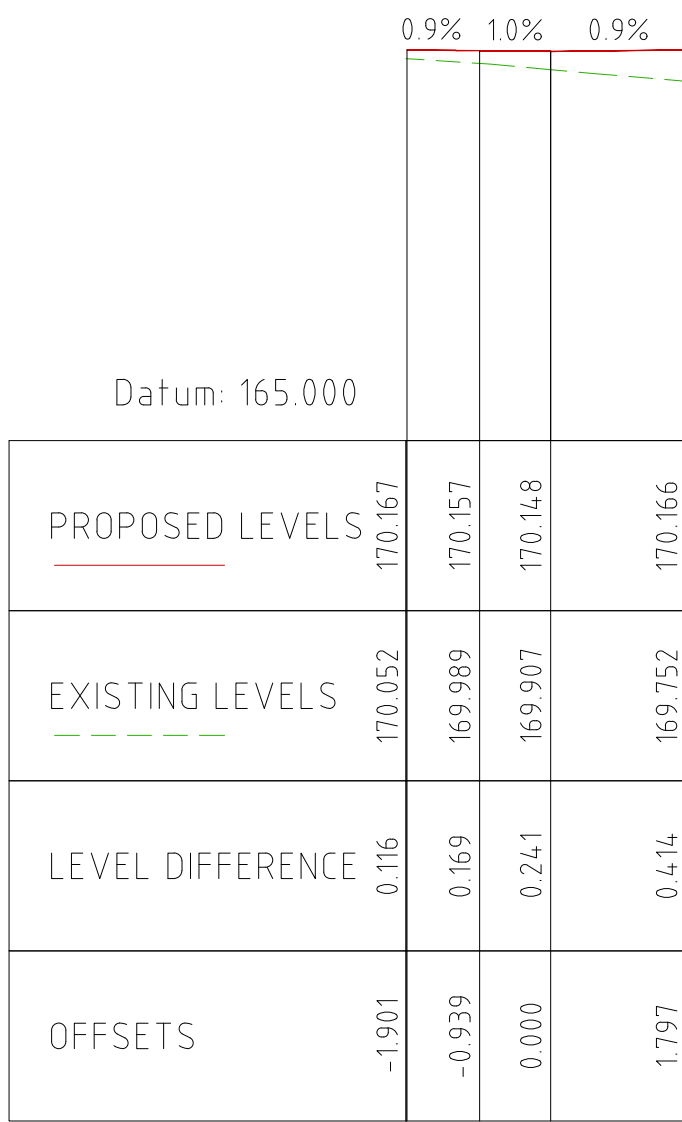
Chainage 25.000 B



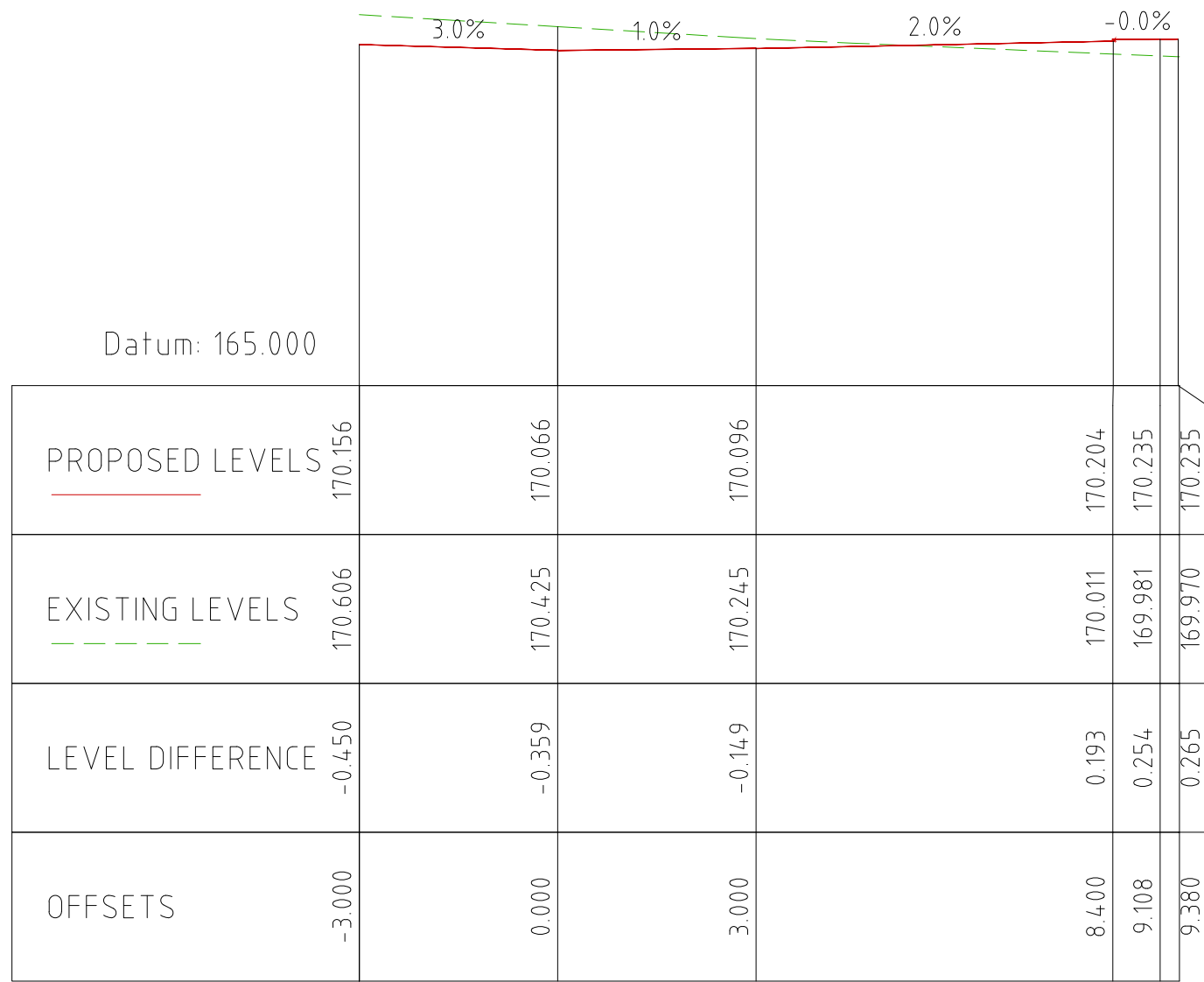
Chainage 40.000 B



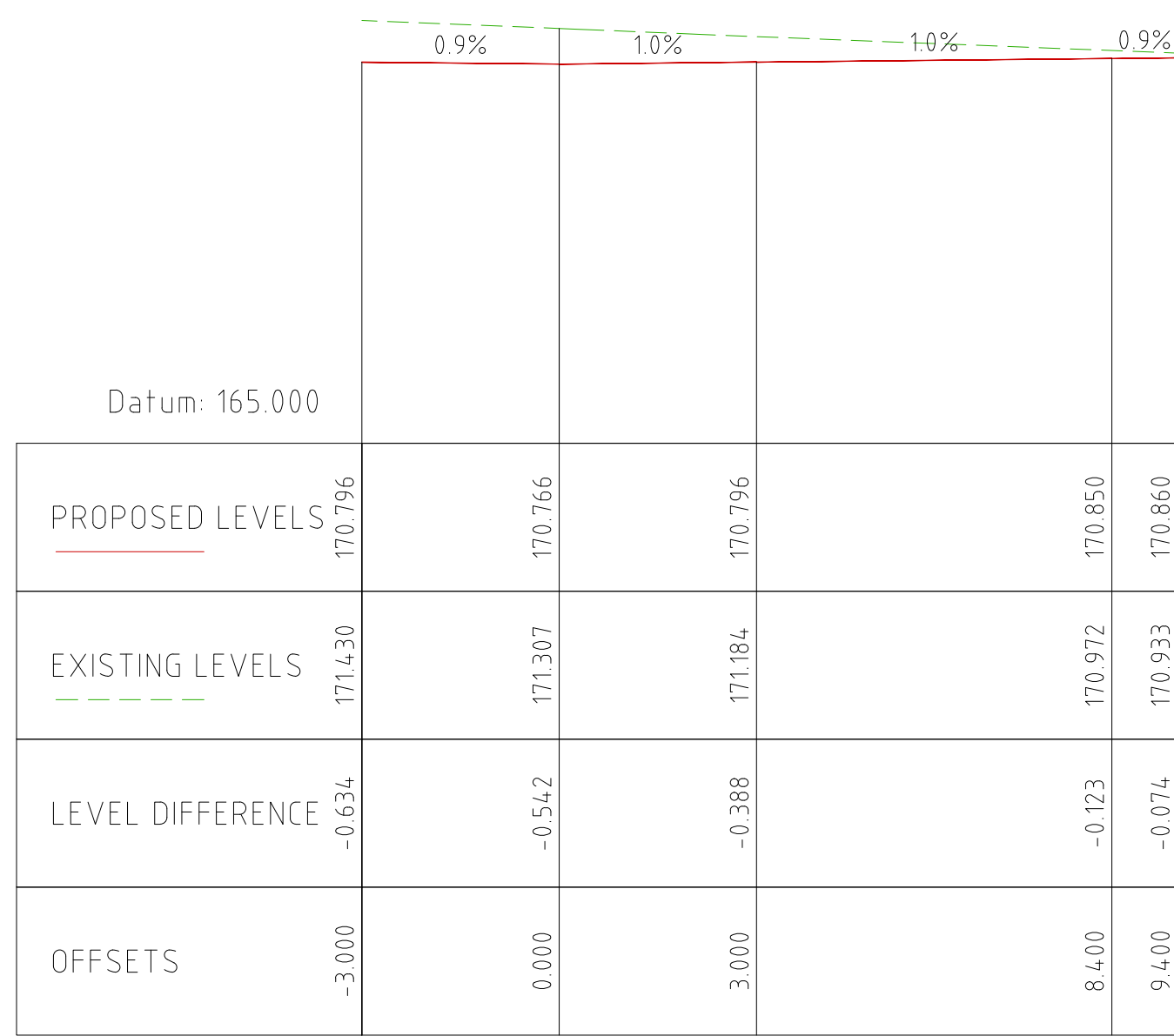
Chainage 05.000 B



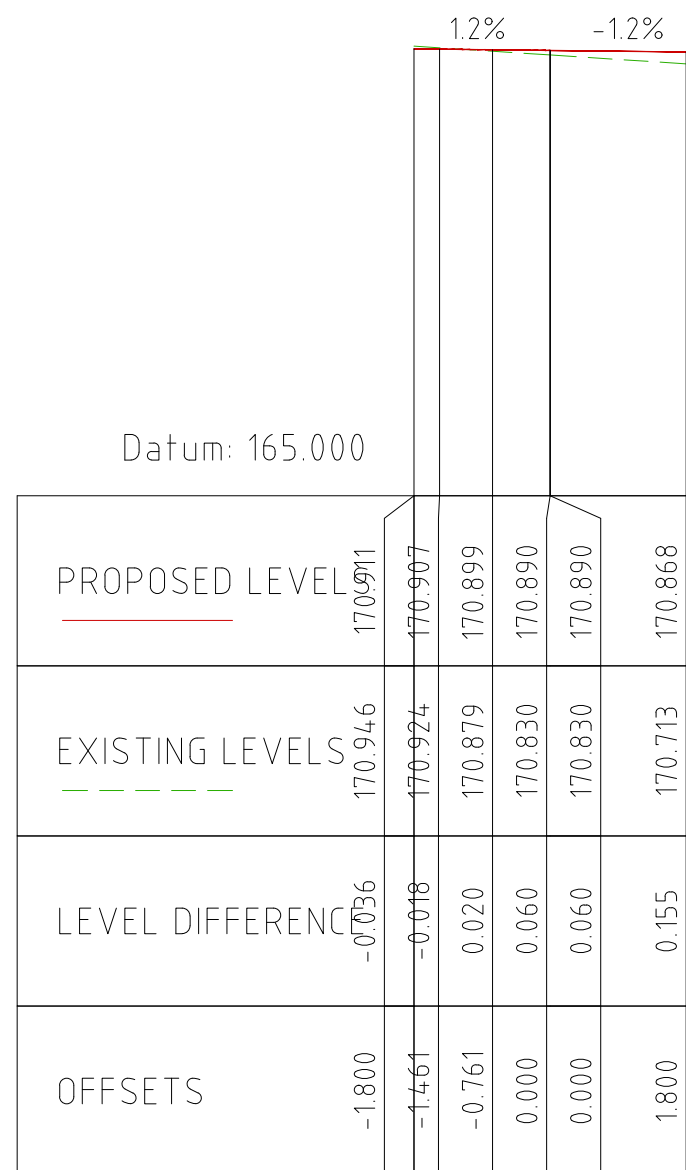
Chainage 20.000 B



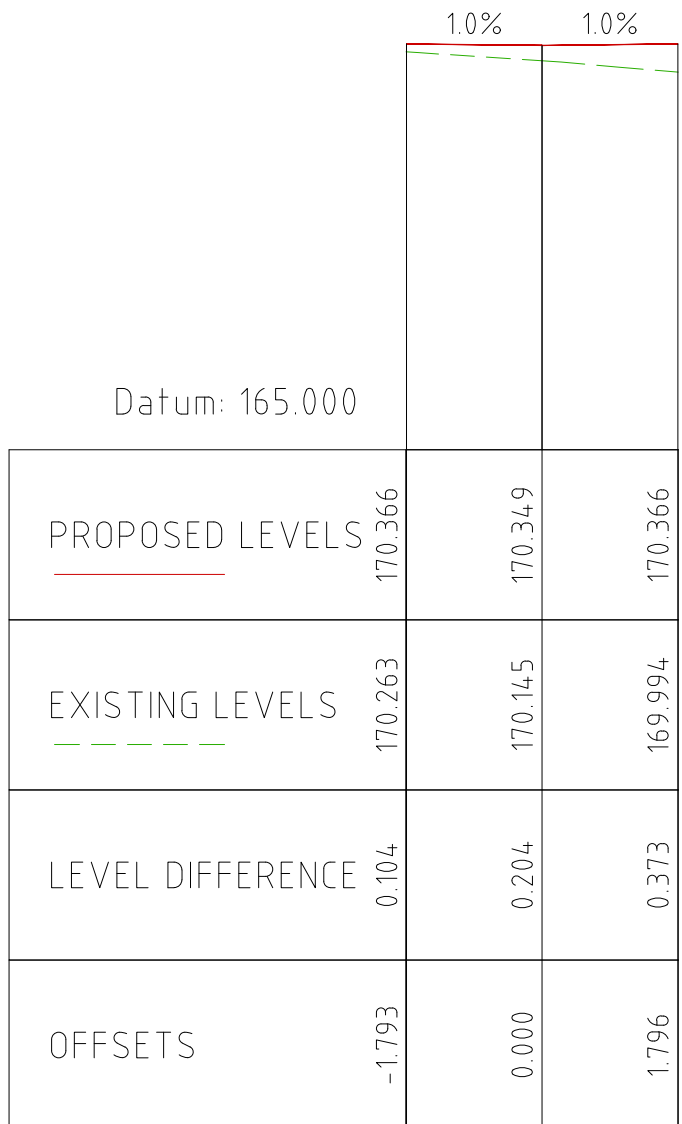
Chainage 35.000 B



Chainage 47.015 B



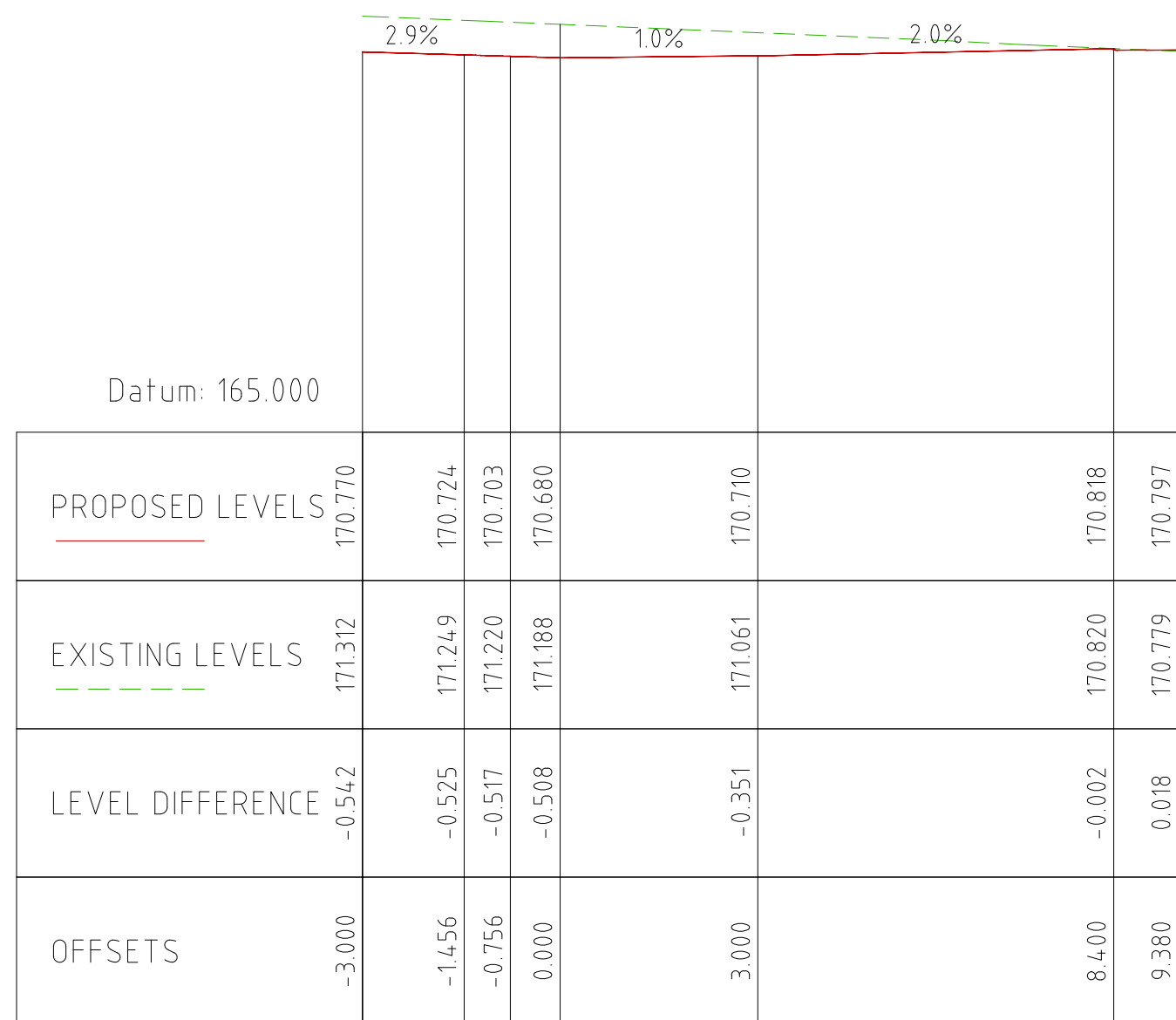
Chainage 00.000 B



Chainage 15.000 B



Chainage 30.000 B

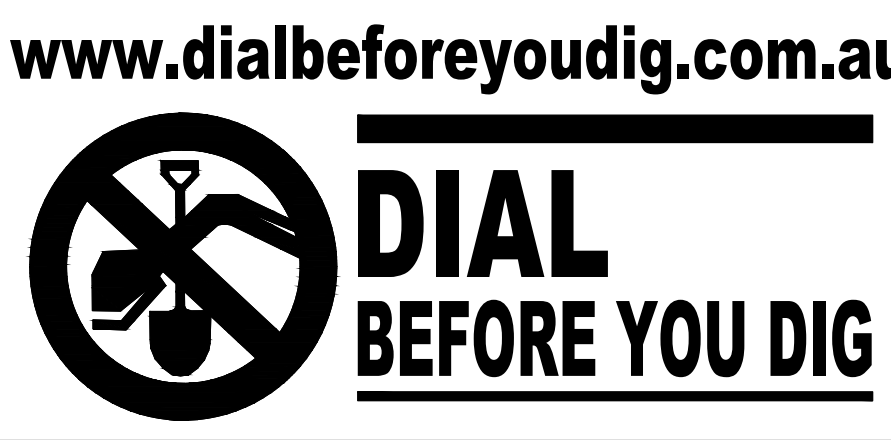


Chainage 45.000 B

ROAD NO. 02 CROSS SECTIONS

1:100 @ A0 (H & V)

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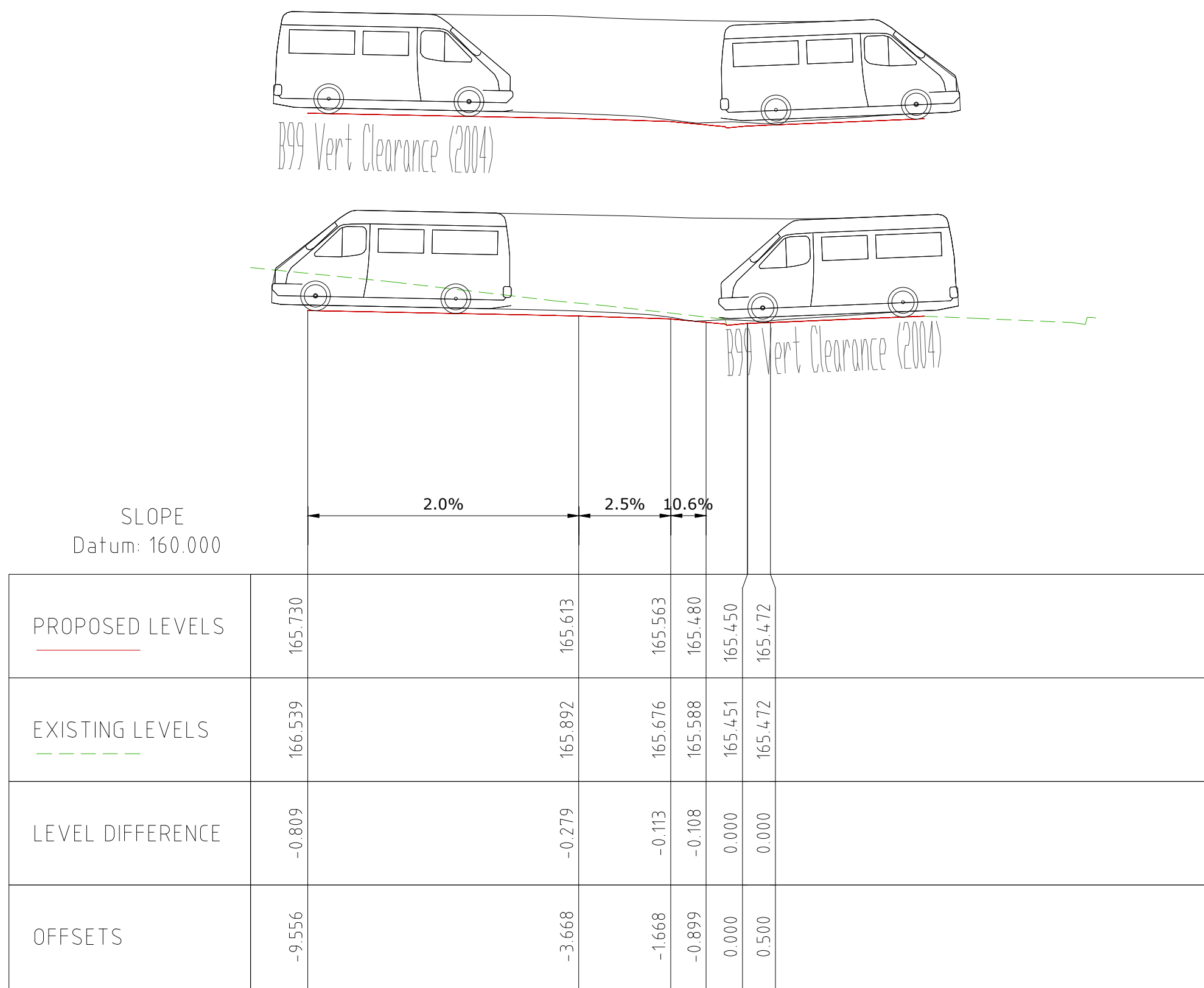
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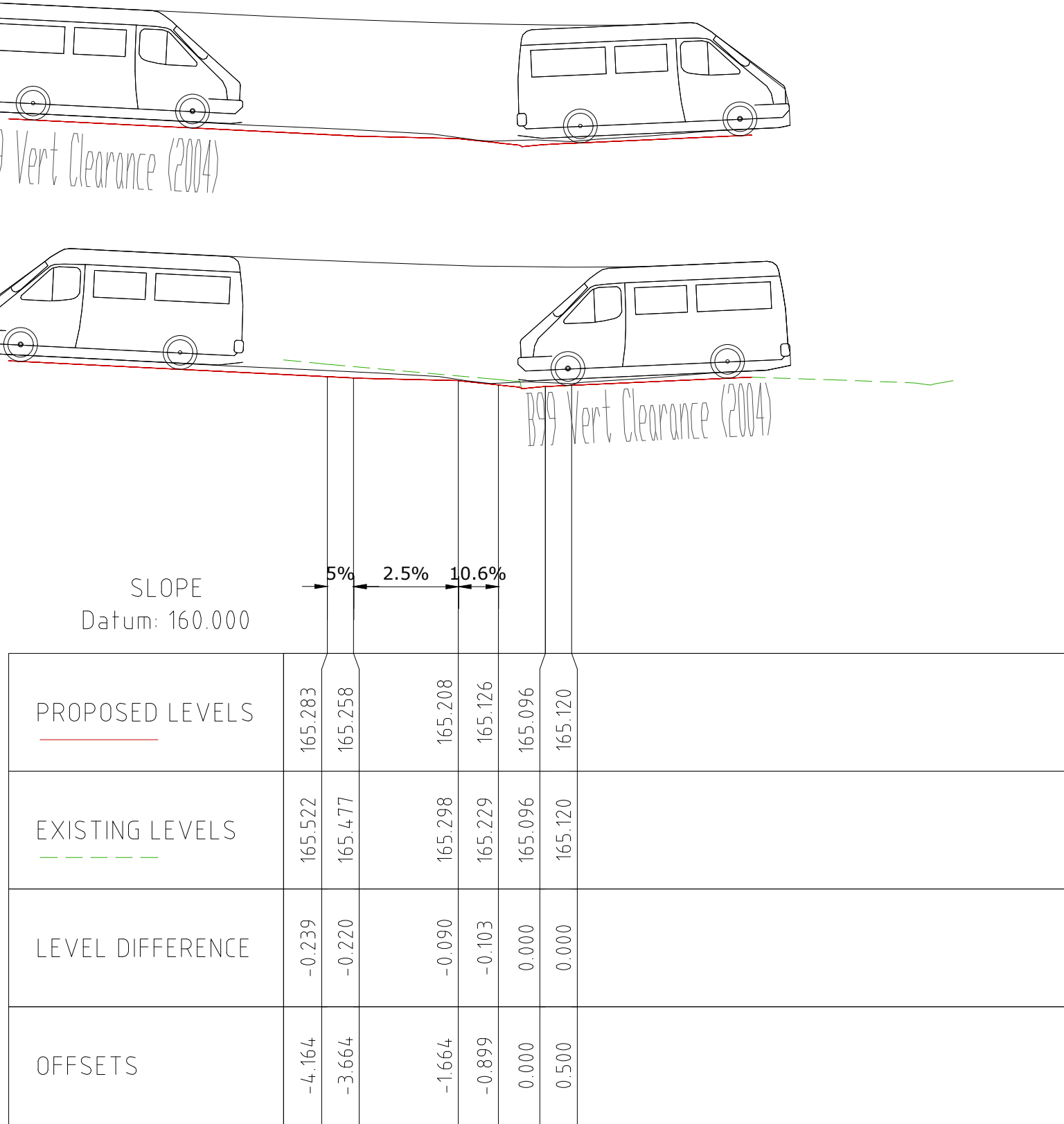
ARCHITECT
PROJECT
PROPOSED DEVELOPMENT
59 TINDALE STREET,
MUSWELLBROOK (STAGE 2)

DRAWING TITLE			
ROAD NO. 2 CROSS SECTIONS			
SCALES	DESIGNED	DRAFTED	
AS SHOWN IN A0	DM	DM	
DRAWING NO.	APPROVED	REVISION	
A22056 - CIV08	JM	C	

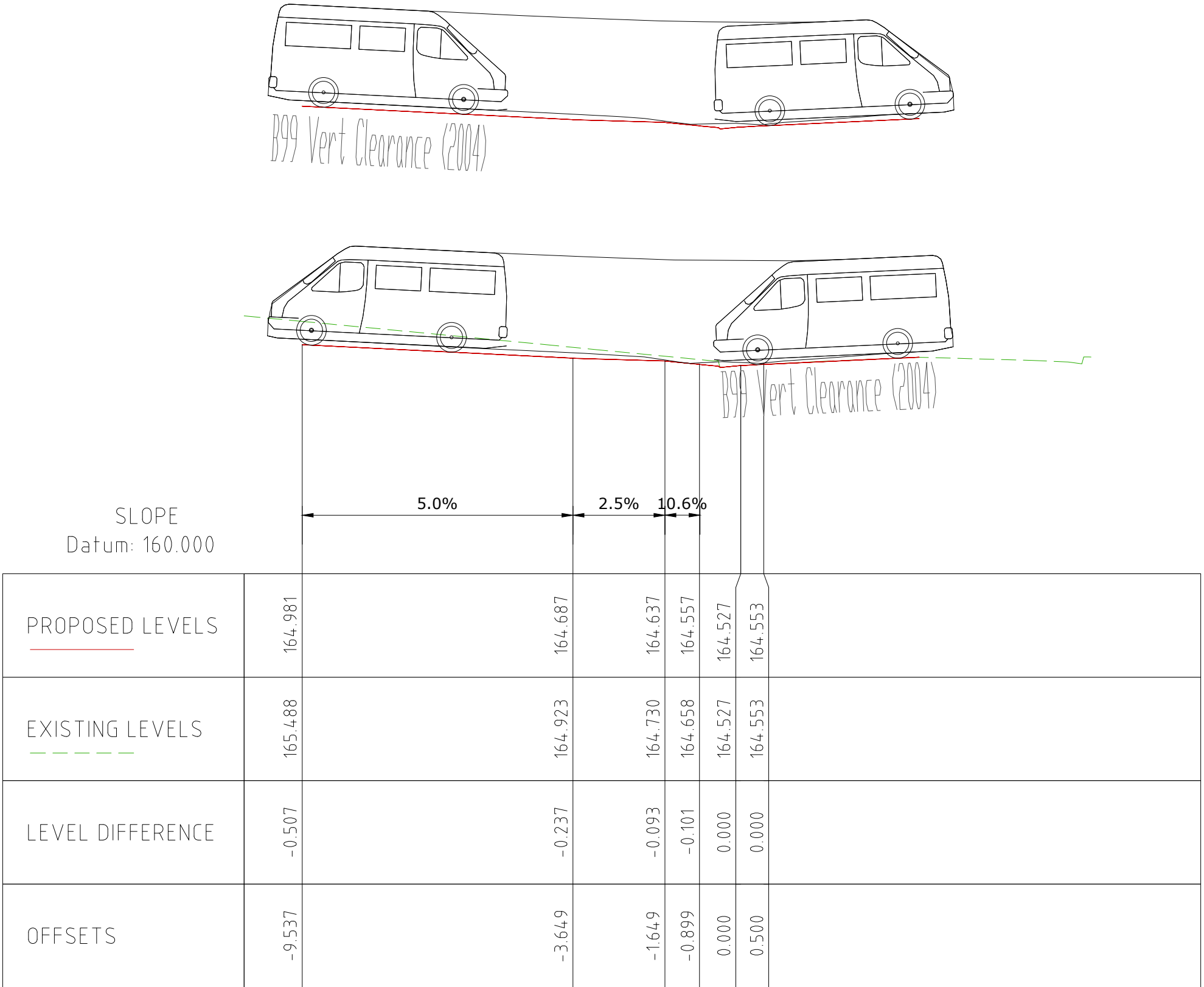
NOTE: DRIVEWAY COMPLIES WITH
B99 VEHICLE AS PER AS2890.1 2004



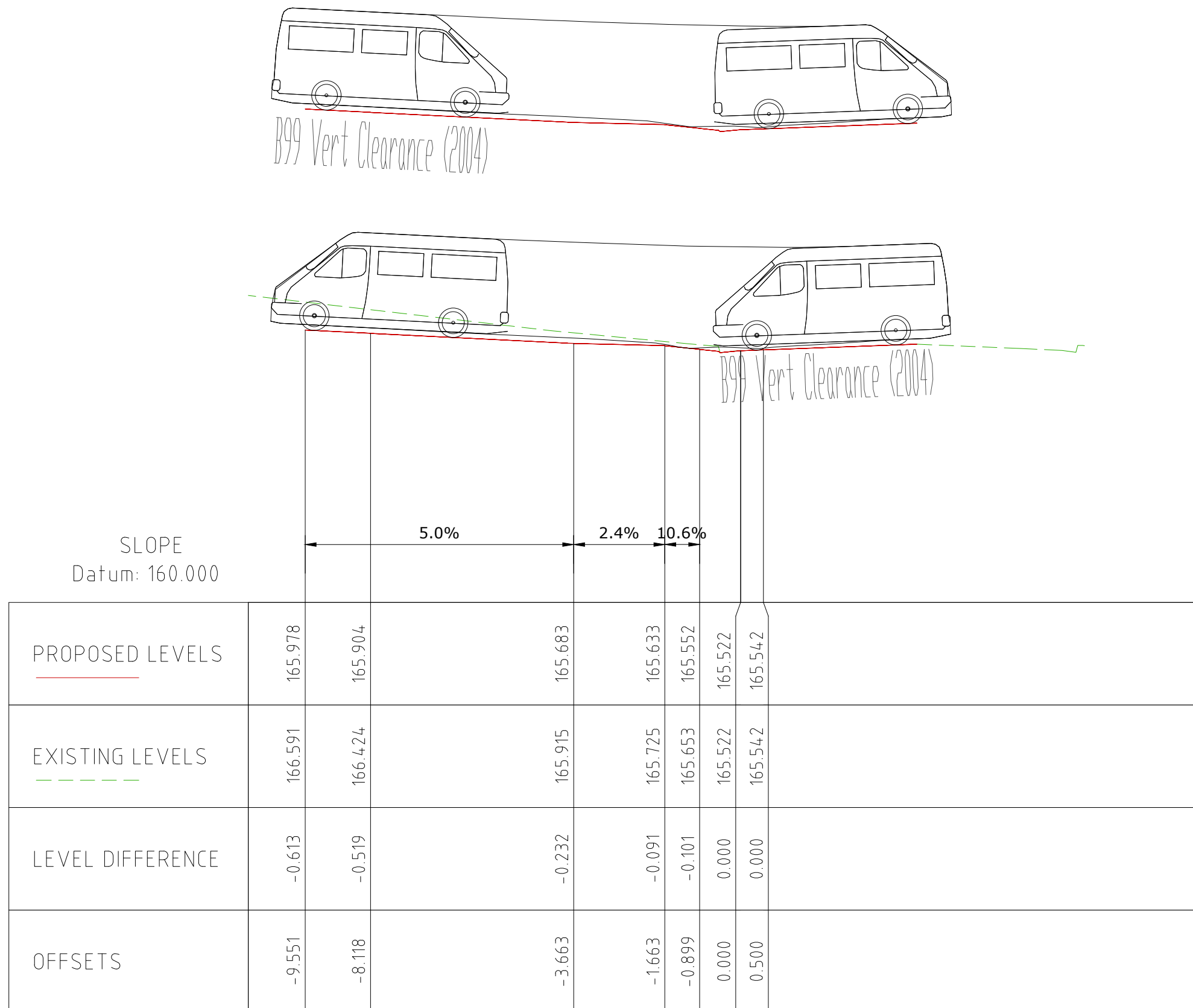
Chainage 20.000



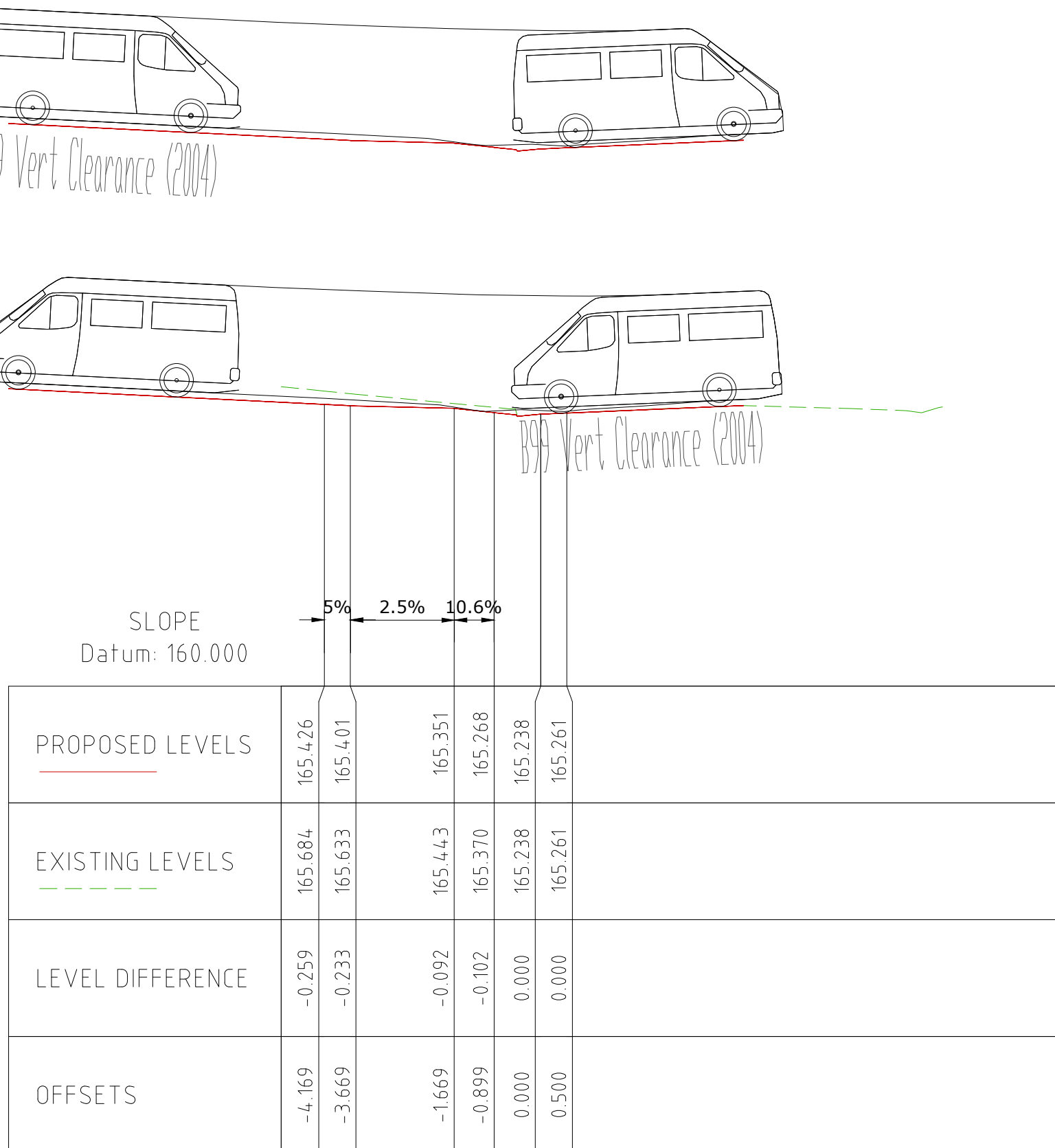
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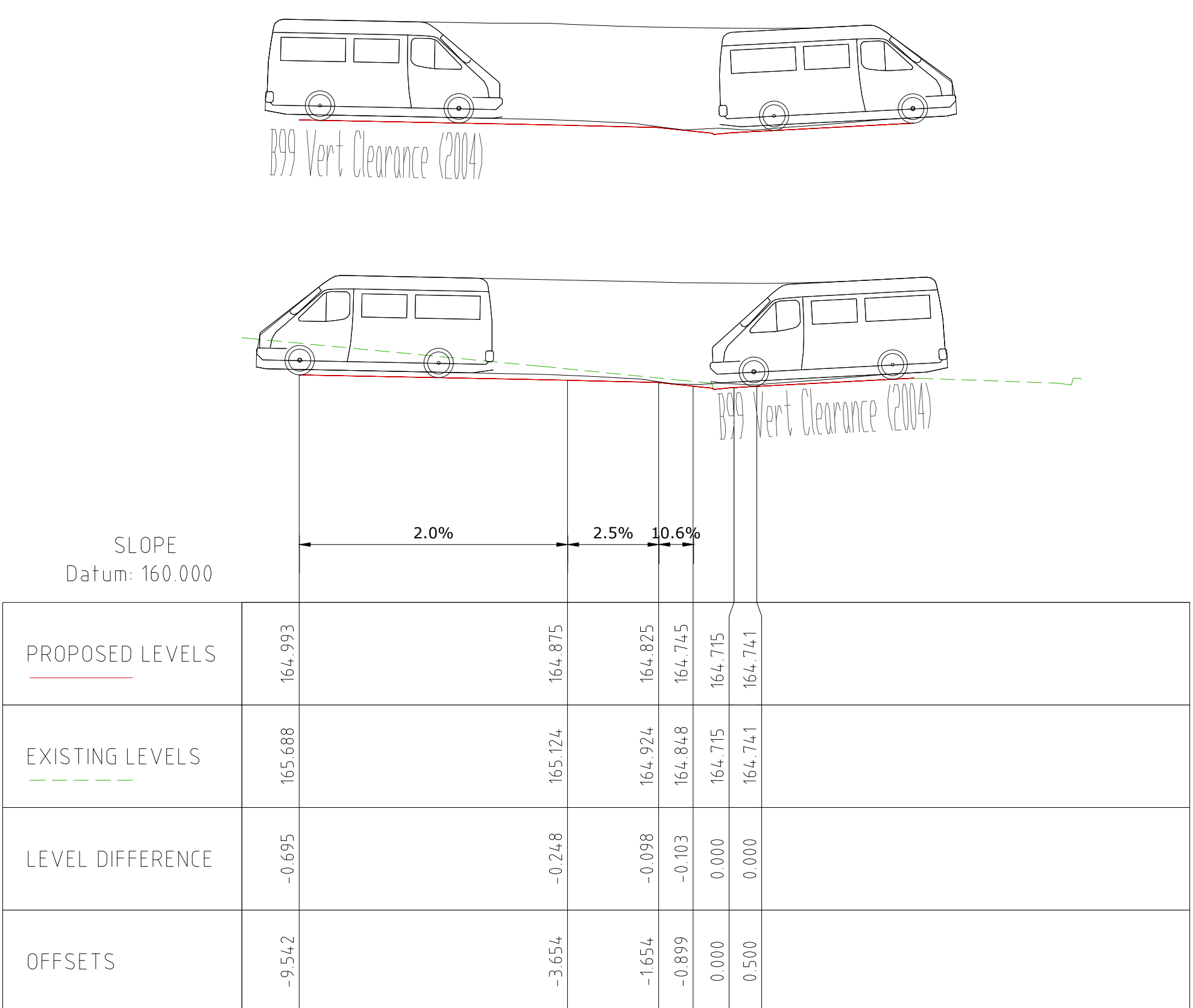
Chainage 50.000



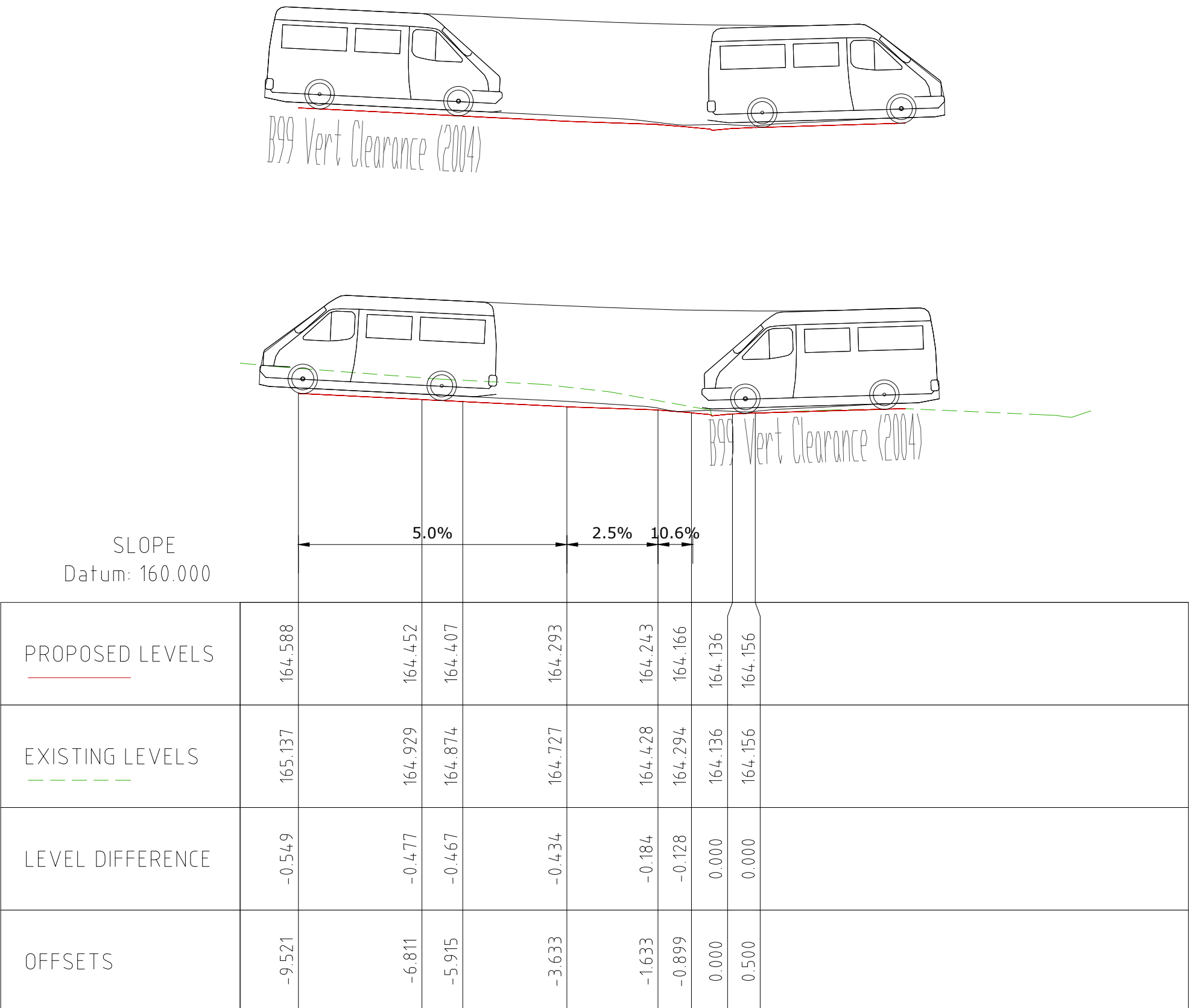
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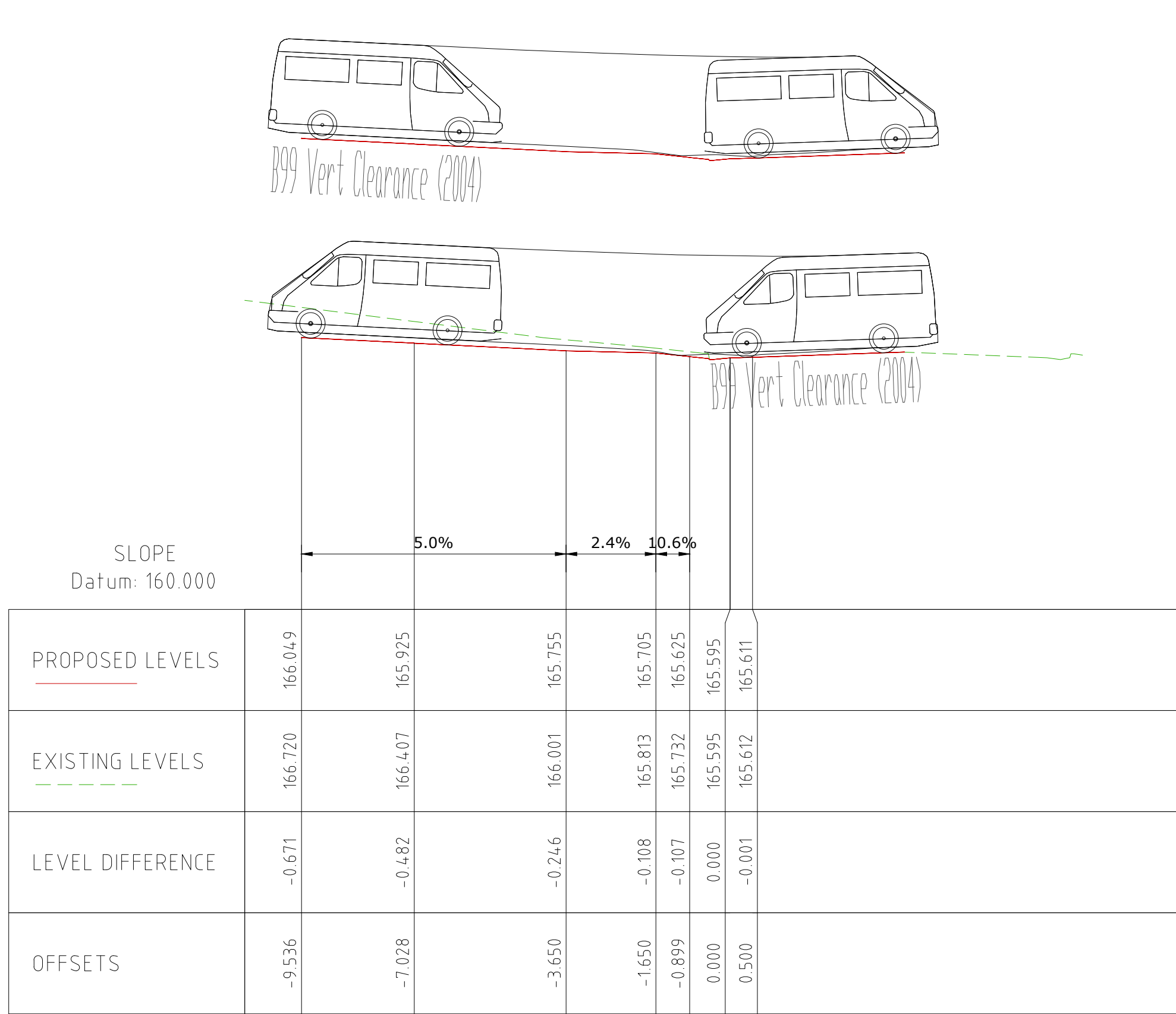
Chainage 30.000



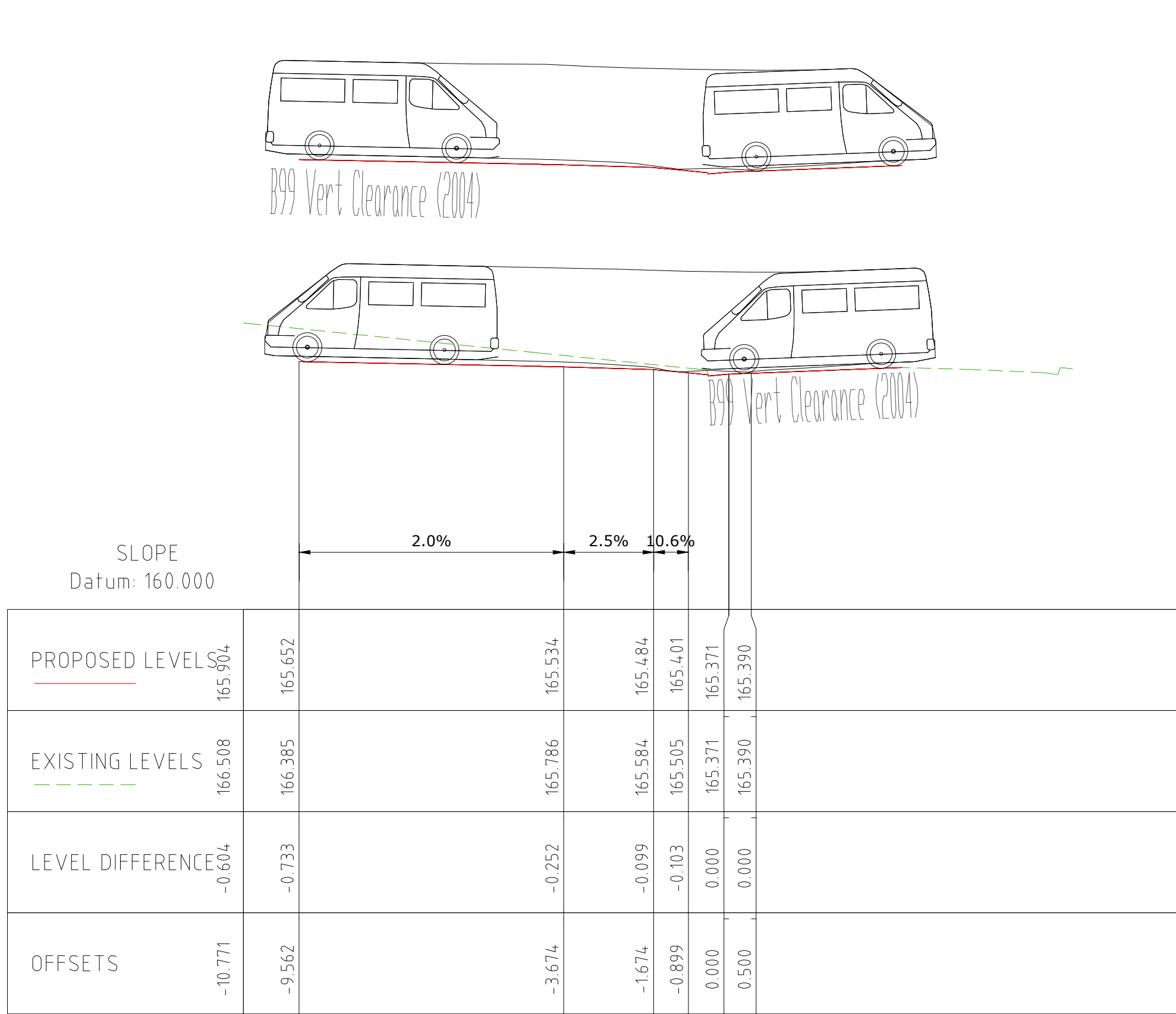
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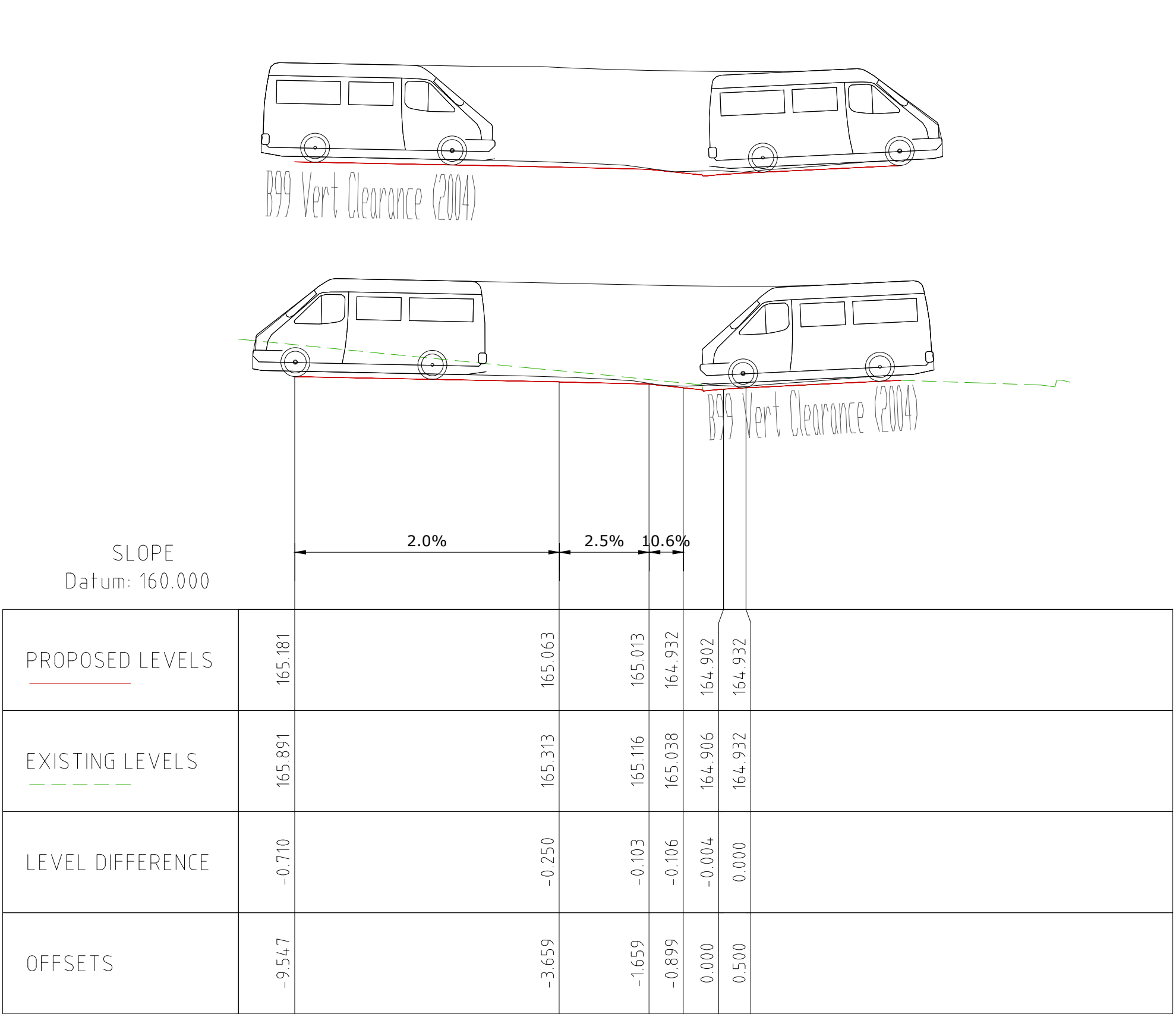
Chainage 60.000



Chainage 05.000



Chainage 25.000



Chainage 40.000



ISSUED FOR DA APPROVAL

C	ISSUED FOR DA APPROVAL	27-03-2023
B	DRAFT FOR REVIEW	26-02-2023
A	DRAFT FOR REVIEW	16-02-2023
REVISION	AMENDMENT	ISSUE DATE



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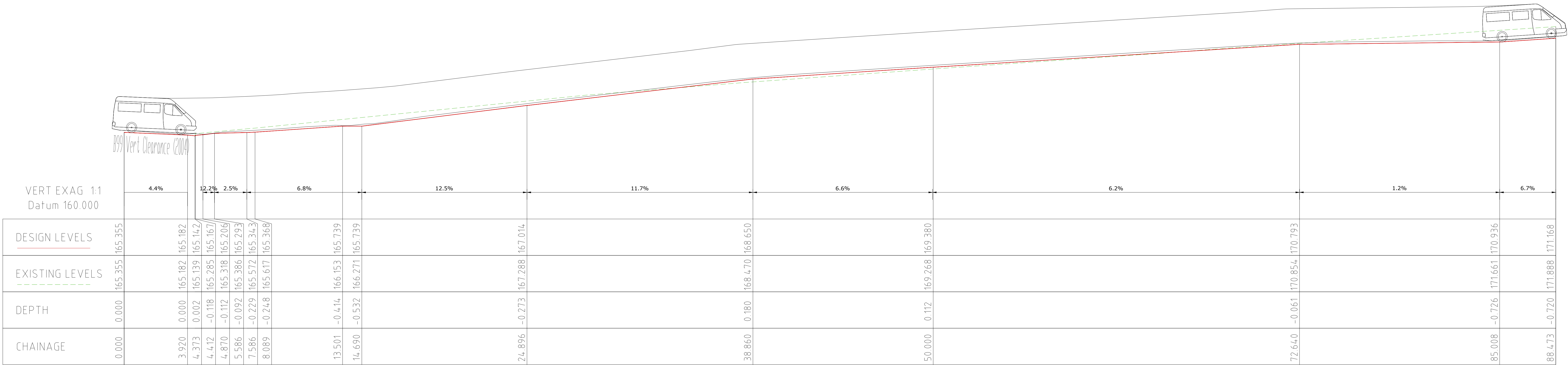
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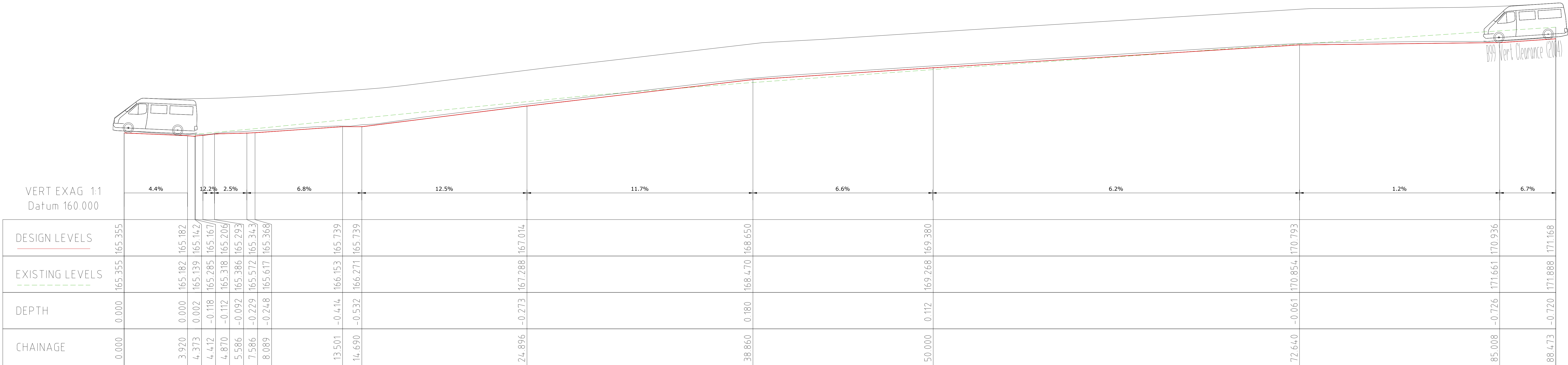
ARCHITECT
PROJECT
PROPOSED DEVELOPMENT
59 TINDALE STREET,
MUSWELLBROOK (STAGE 2)

DRAWING TITLE SCRAPPING TEST (SHEET 1 OF 2)		
SCALES AS SHOWN IN A0 DRAWING NO. A22056 - CIV09	DESIGNED DM APPROVED JM	DRAFTED DM REVISION C

NOTE: DRIVEWAY COMPLIES WITH
B99 VEHICLE AS PER AS2890.1 2004



ROAD 01 SCRAPPING TEST (VEHICLE ENTRY)
1:100 @ A0 (H & V)



ROAD 01 SCRAPPING TEST (VEHICLE EXIT)
1:100 @ A0 (H & V)



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			 Alpha ENGINEERING & DEVELOPMENT	Phone: (02) 9745 5202 Fax: (02) 8004 7461 Email: Info@alphaengineering.com.au Address: 4.03, 16 Railway Parade, Burwood NSW 2134 Website: www.alphaengineering.com.au COPYRIGHT THIS DRAWING REMAINS THE PROPERTY OF ALPHA ENGINEERING & DEVELOPMENT AND MAY NOT BE ALTERED IN ANY WAY WITHOUT ALPHA ENGINEERING'S WRITTEN CONSENT	 ARCHITECT STEELE ASSOCIATES ARCHITECTURE	PROJECT PROPOSED DEVELOPMENT 59 TINDALE STREET, MUSWELLBROOK (STAGE 2)	DRAWING TITLE SCRAPPING TEST (SHEET 2 OF 2)		
							SCALES AS SHOWN IN A0		
							DRAWING NO. A22056 - CIV10	DESIGNED DM	DRAFTED DM
								APPROVED JM	REVISION C
C	ISSUED FOR DA APPROVAL	27-03-2023							
B	DRAFT FOR REVIEW	26-02-2023							
A	DRAFT FOR REVIEW	16-02-2023							
REVISION	AMENDMENT	ISSUE DATE							