

Appendices to Chapter C

Site and Development Description

Contents:

- Appendix C1 – Detailed Drawings
- Appendix C2 – Parameter Plans
- Appendix C3 - Illustrative Masterplan
- Appendix C4 – Preliminary Earthworks Strategy
- Appendix C5 - Lighting Assessment
- Appendix C6 – Arboricultural Survey



Appendix C I

Detailed Drawings

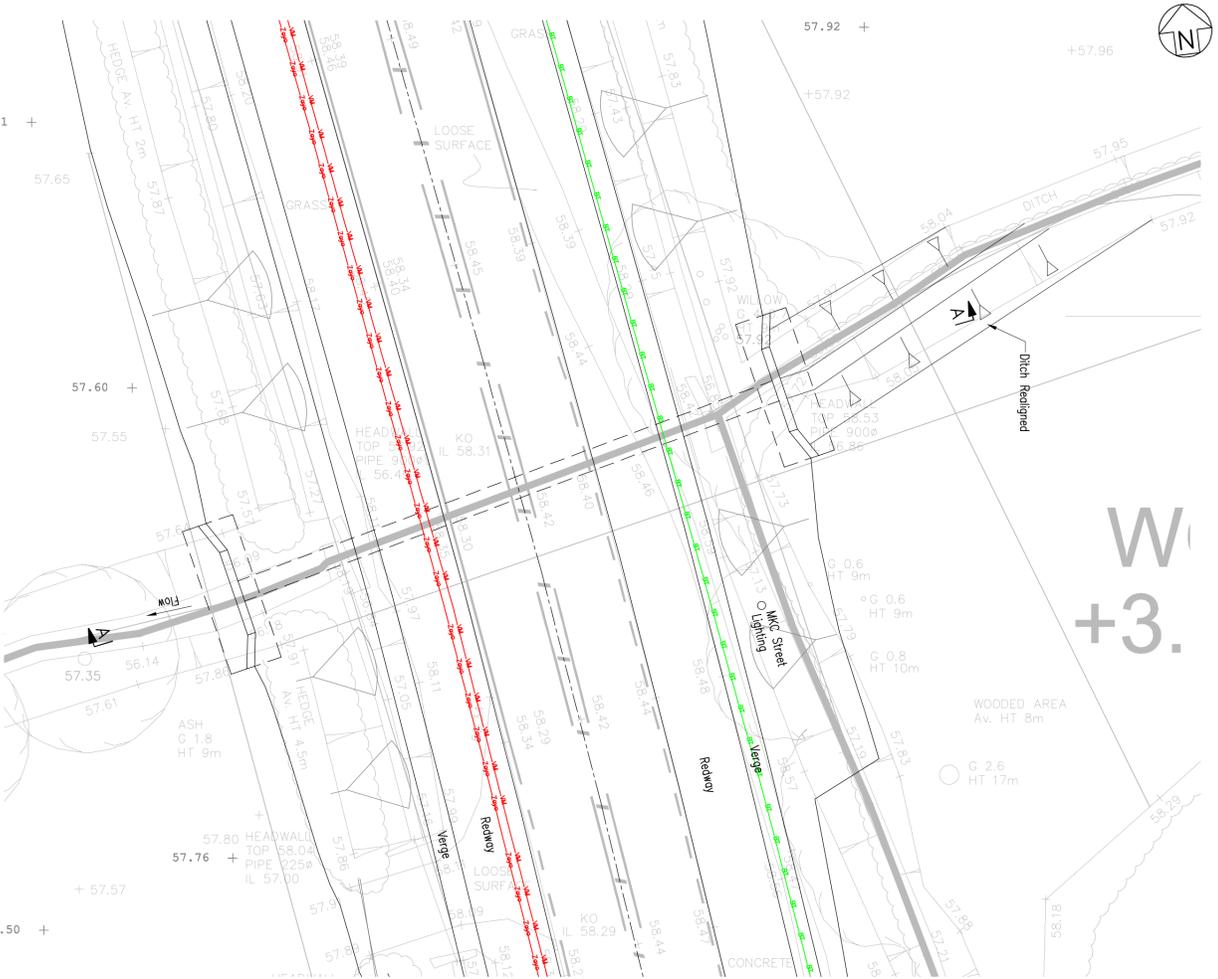


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P02	11/03/21	CPW	HIGHWAY DETAILS UPDATED. SW6 DELETED (COMBINED WITH R07).	JSCS	JSCS																						
P01	01/02/21	CPW	FB1 replaced by SW8. INITIAL ISSUE.	JSCS	JSCS																						
<p>CLIENT: BERKELEY STRATEGIC</p>		<p>PROJECT: MILTON KENNES EAST</p>																									
<p>TITLE: HIGHWAY STRUCTURES LOCATION PLAN</p>		<p>SCALE @ A1: 1:4000</p>																									
<p>PROJECT No: 7004639</p>		<p>DATE: March 21</p>																									
<p>DRAWING No: MIKE-WSP-CBR-ZZ-DR-BR-002</p>		<p>REV: P03</p>																									
<p>© WSP UK Ltd</p>																											

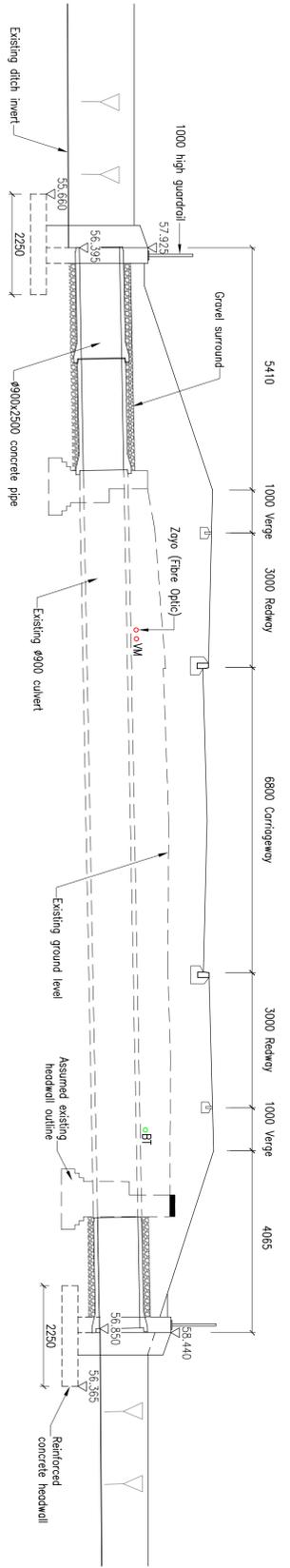


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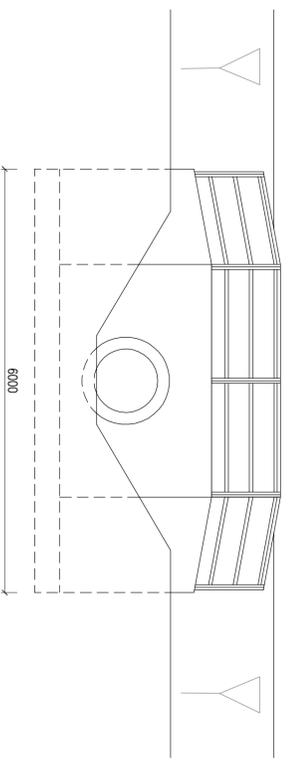
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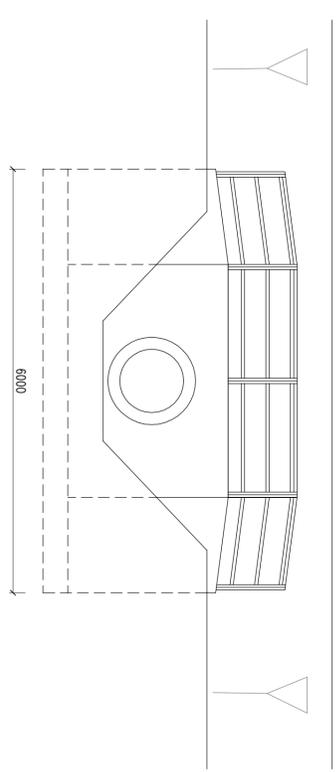
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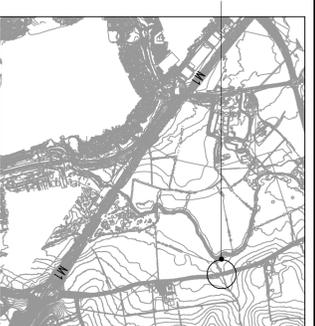
CULVERT LONG SECTION A-A
1:75



EAST ELEVATION
1:30



WEST ELEVATION
1:30



LOCATION PLAN
1:25000

Existing Road A509 London Road
Grid Reference: 97 890 420
Scheme Link Reference: 310

- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
 3. SERVICES INFORMATION BASED ON C2 RETURNS DATED NOVEMBER 2020 ONLY.

PO2	26/03/21	AWT	GENERAL REVISIONS	RBP	JSCS
PO1	11/03/21	AWT	INITIAL ISSUE	RBP	JSCS
REV	DATE	BY	DESCRIPTION	CHK	APP

ISSUING STATUS: S2-FOR INFORMATION



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CLIENT: BERKELEY STRATEGIC

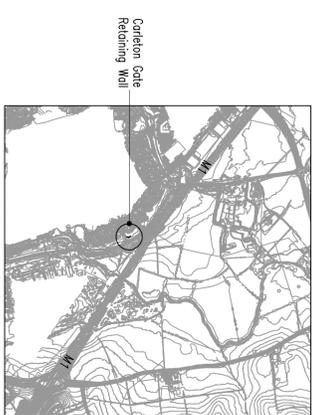
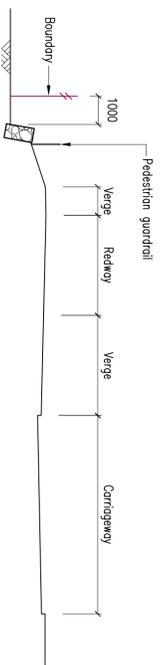
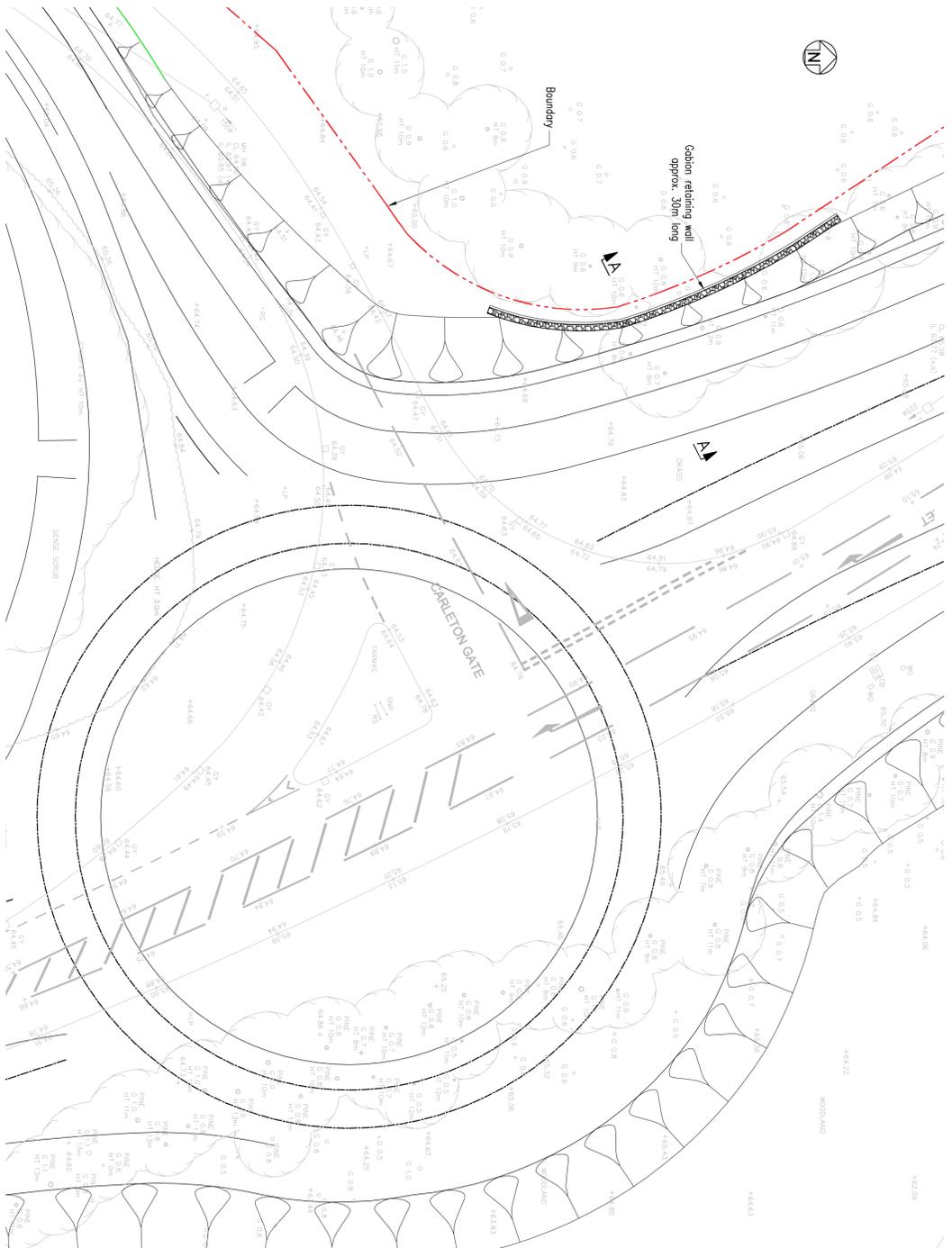
PROJECT: MILTON KEYNES EAST

TITLE: MKE CULVERT 3

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PROJECT No:	ISSUE:	RBP	DATE:	March 21
70014859				

DRAWING No: MKE-WSP-CBR-C3-DR-BR-001

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REV	DATE	BY	DESCRIPTION	ISSUED TO
P01	26/03/21	CPW	INITIAL ISSUE	JSCS JSCS

ISSUING STATUS

S2-FOR INFORMATION



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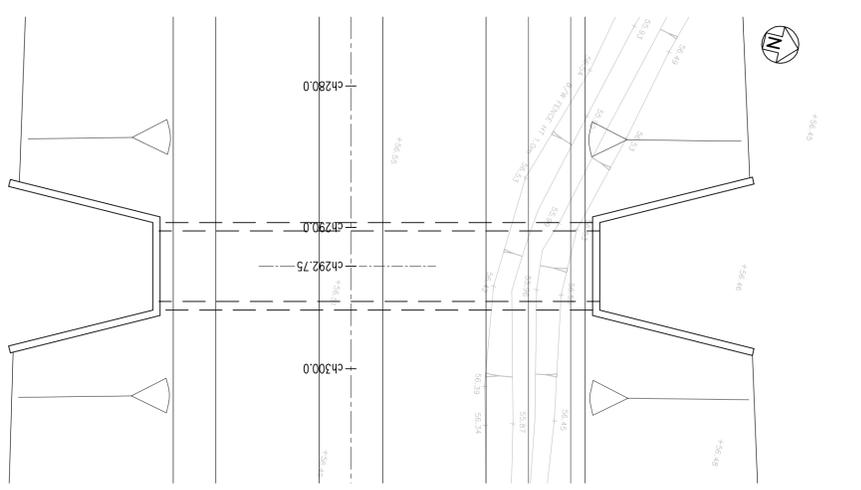
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PROJECT: MILTON KEYNES EAST

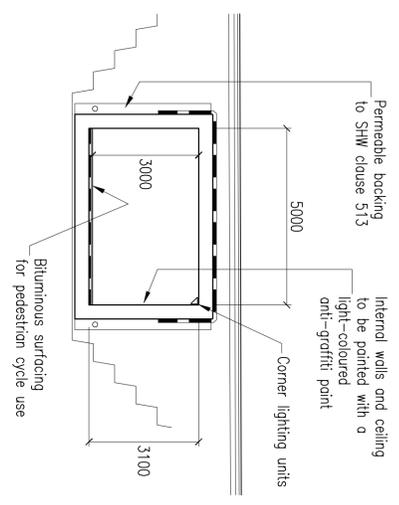
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AS SHOWN	JSCS	PD
PROJECT NO:	ISSUE:	DATE:
70014859	JSCS	March 21
DRAWING NO:	CPW	REV:
MKE-WSP-CBR-CGR-DR-001		P01

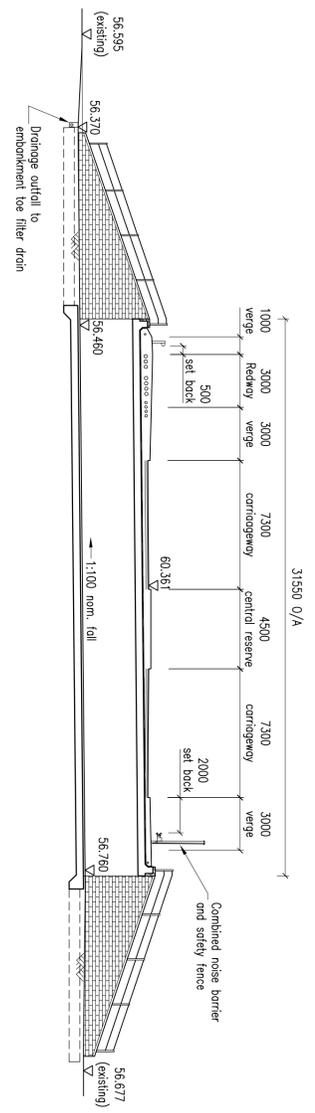
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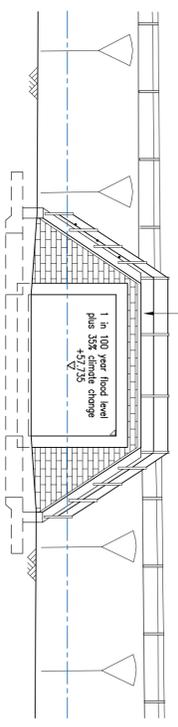
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1:250



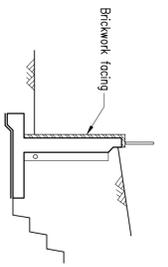
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CULVERT LONG SECTION
1:200

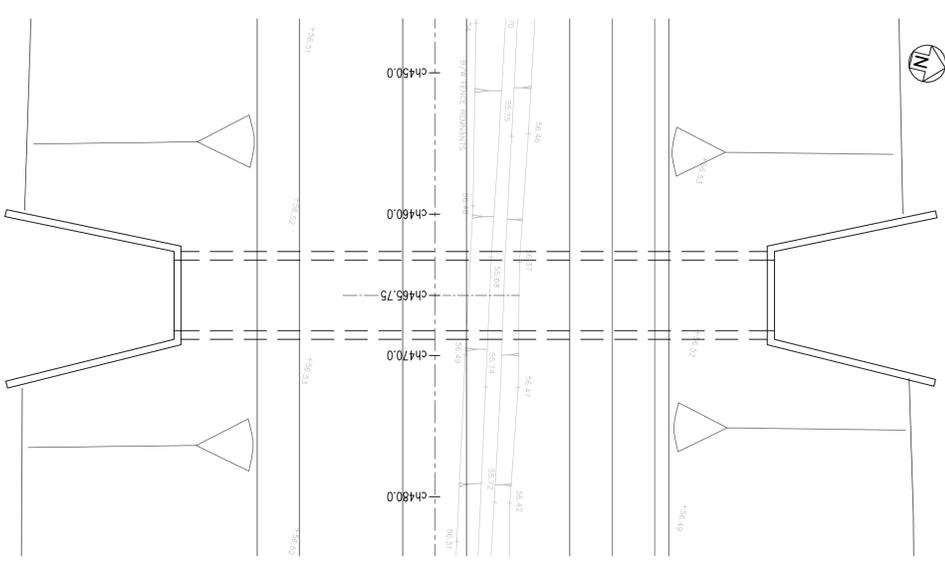


NORTH HEADWALL ELEVATION
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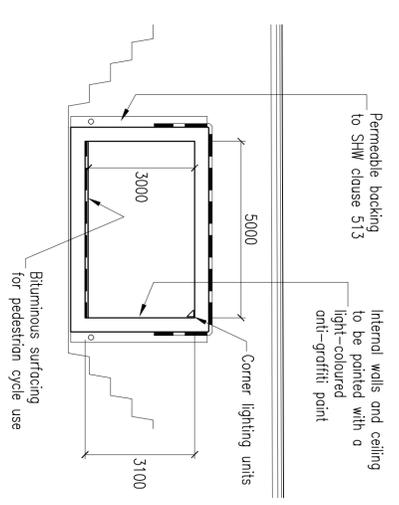


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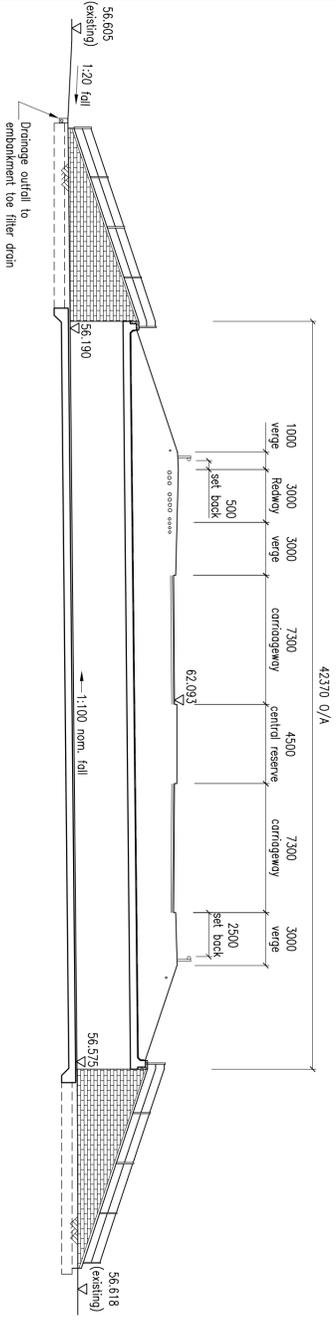
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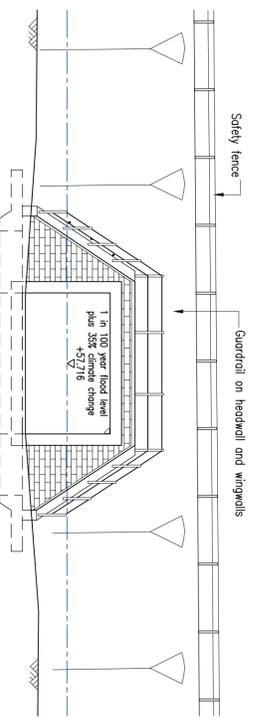
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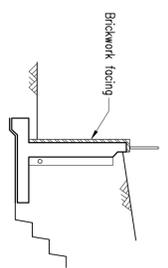
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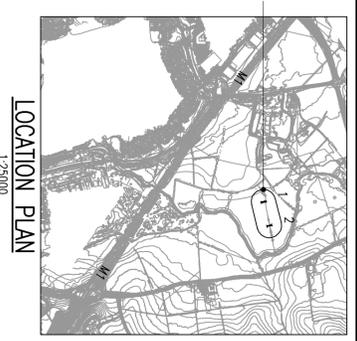
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NORTH HEADWALL ELEVATION
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WINGWALL CROSS SECTION
1:125



LOCATION PLAN
1:25000

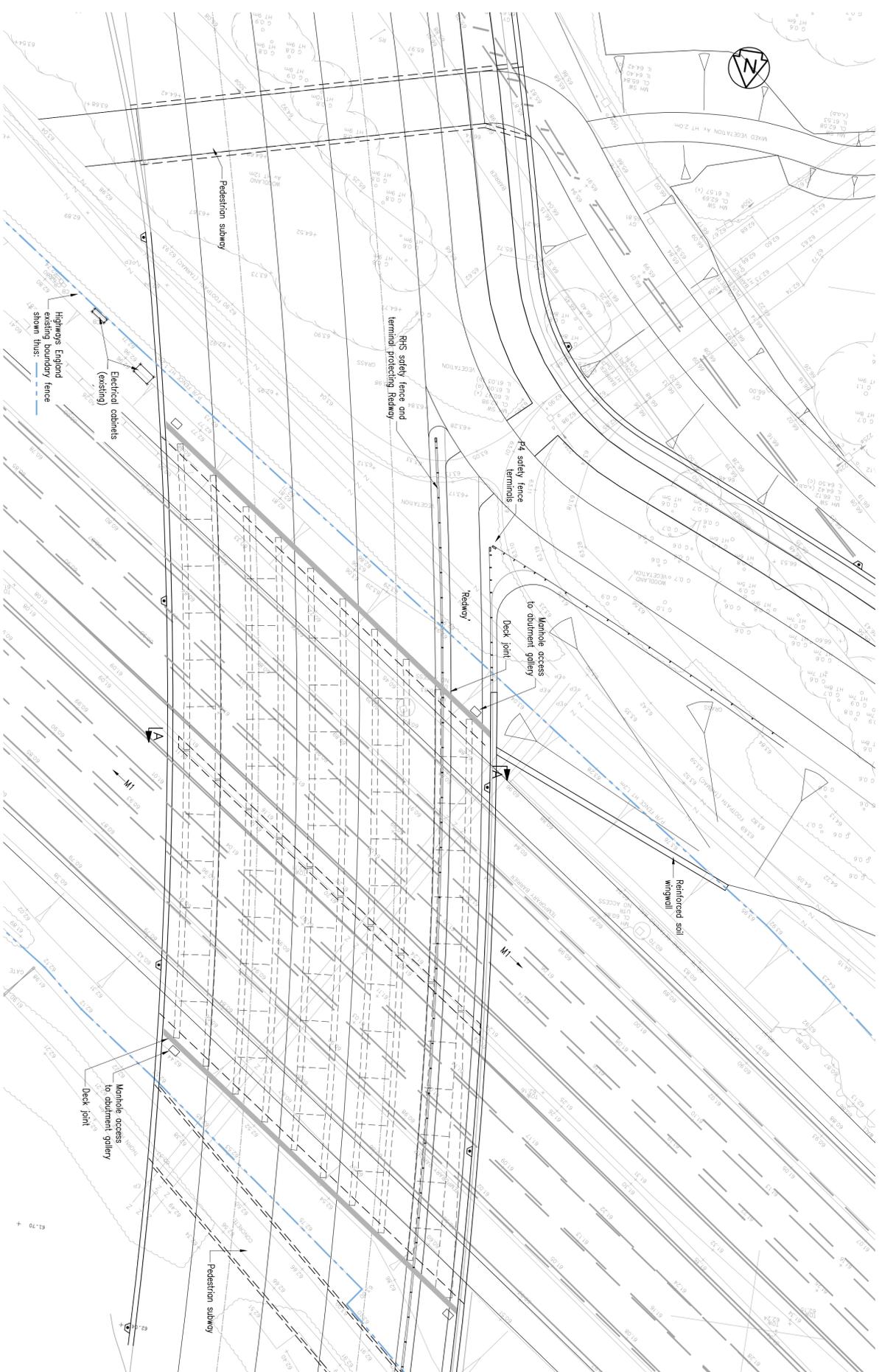
- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
 3. THE REQUIREMENT FOR A NOISE BARRIER ON THE STRUCTURE IS TO BE REVIEWED AT DETAILED DESIGN STAGE.

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P01	11/03/21	CPW	INITIAL ISSUE
REV	DATE	BY	DESCRIPTION
CHK	APP		

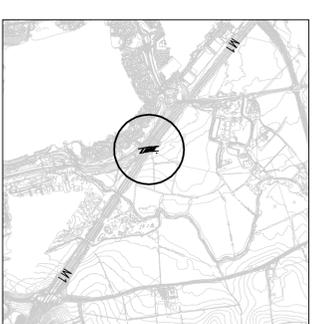
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DRAWN BY:	MKE-WSP-CBR-FR-DR-BR-001	DATE:	February 21	REV:	P02

CLIENT:	BERKELEY STRATEGIC
PROJECT:	MILTON KEYNES EAST
TITLE:	MKE FLOOD RELIEF CULVERTS 1 & 2

CLIENT:	Milton Keynes Council, Basing View, Basingstoke, RG24 4HL, UK T: +44 (0) 1235 318 800, F: +44 (0) 1235 318 700 mks.gov.uk
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PLAN
1:250



LOCATION PLAN
1:25000

- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.

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P05	26/03/21	CPW	ELEVATIONS AND SECTIONS MOVED TO DRG. ...M1B-DR-BR-001.	JSCS	JSCS
P04	18/02/21	CPW	VERT ALIGNMENT RAISED	JSCS	JSCS
P03	10/02/21	CPW	HIGHWAY CROSS SECTION REVISED. LIGHTING COLUMNS ADDED.	JSCS	JSCS
P02	18/12/20	CPW	SUBWAYS REVISED.	JSCS	JSCS
P01	14/10/20	CPW	GENERAL REVISIONS	JSCS	JSCS
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REVISIONS
S2-FOR INFORMATION

wsp

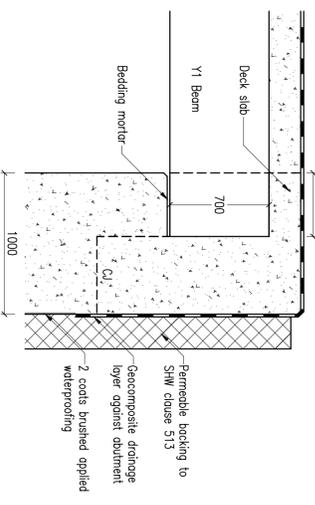
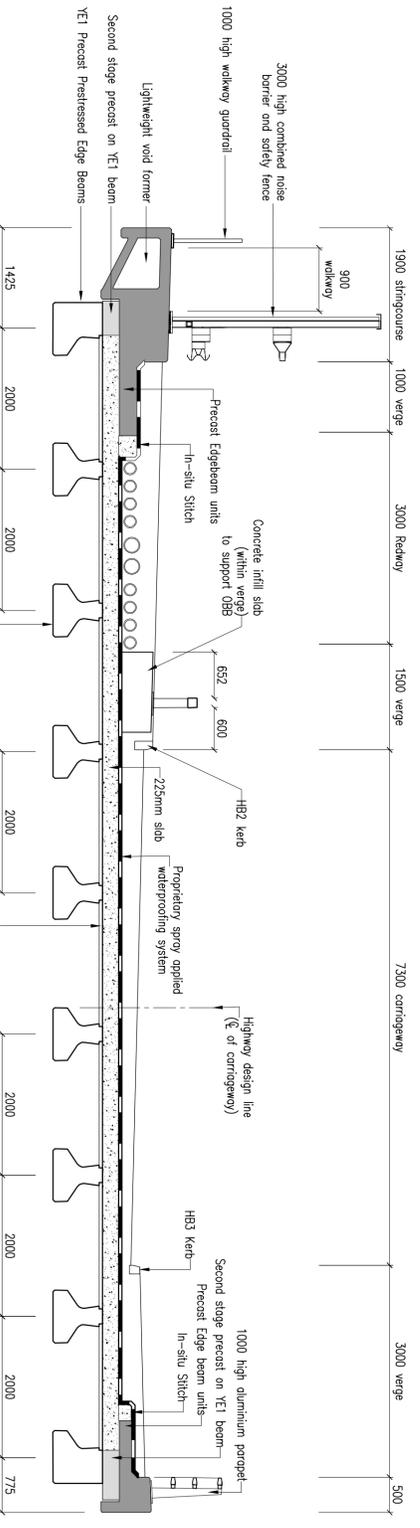
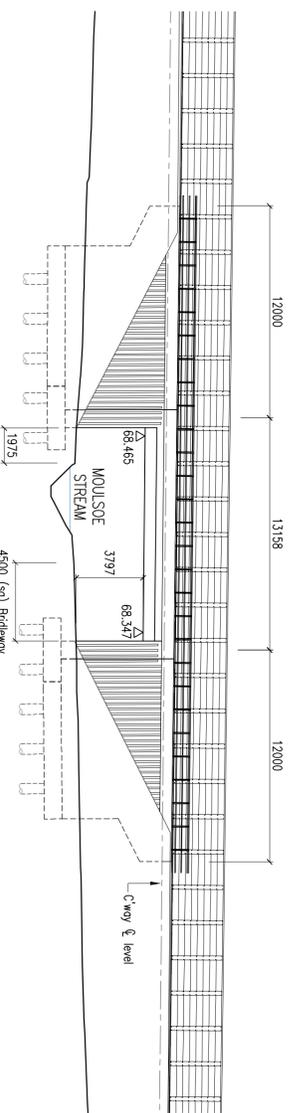
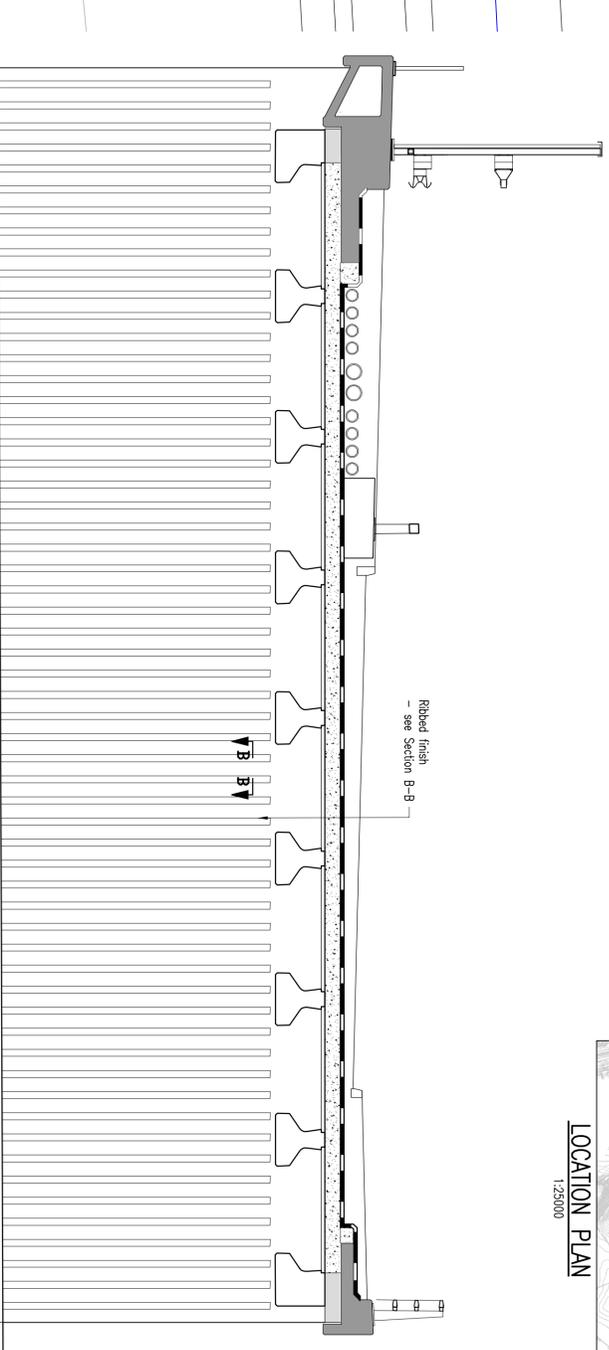
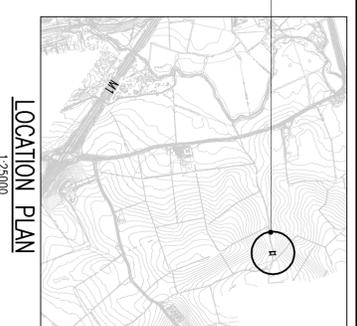
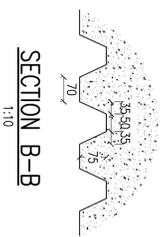
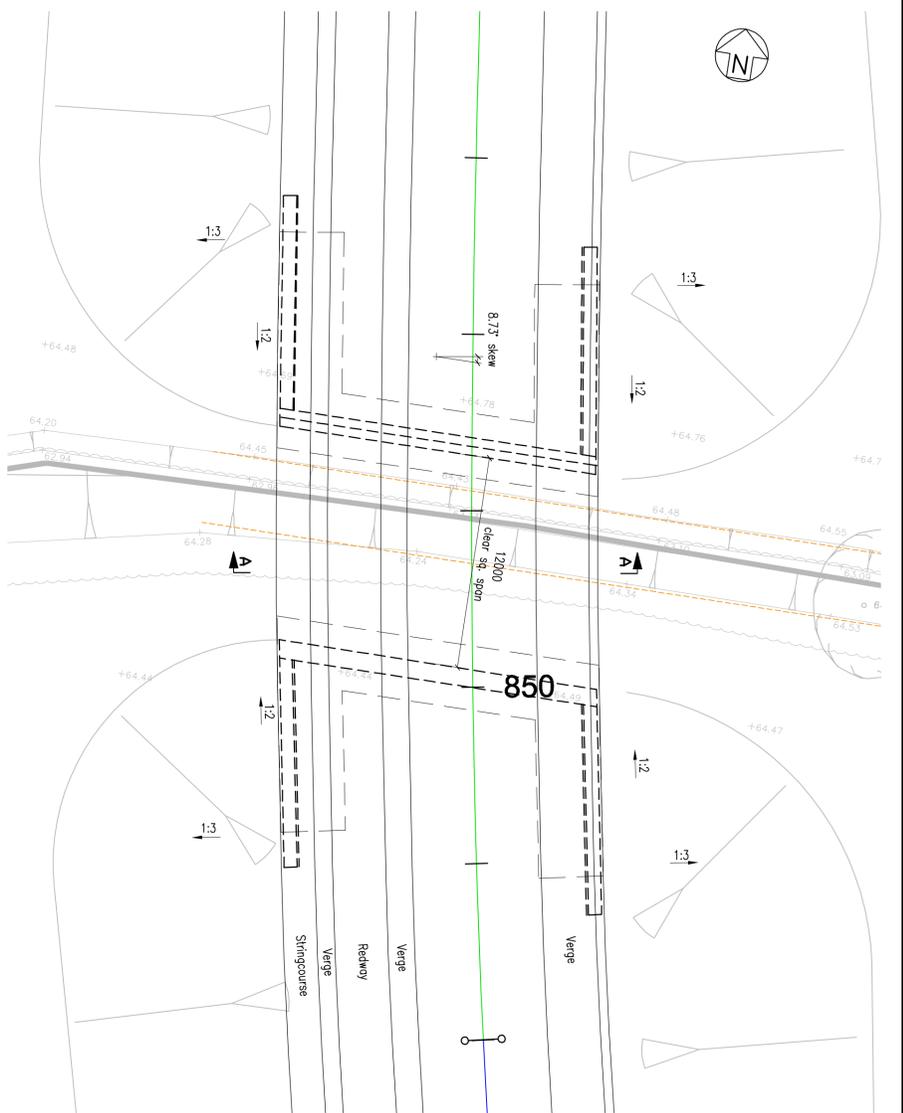
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CLIENT: BERKELEY STRATEGIC

PROJECT: MILTON KEYNES EAST

TITLE: M1 MILTON KEYNES EAST BRIDGE
SHEET 1 - PLAN

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AS SHOWN	JSCS			
PROJECT NO:	ISSUE:	REV:	DATE:	
70014859	JSCS	CPW	February 21	
DRAWING NO:				
MKE-WSP-CBR-M1B-DR-BR-001				P05



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 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
 3. THE REQUIREMENT FOR A NOISE BARRIER ON THE STRUCTURE IS TO BE REVIEWED AT DETAILED DESIGN STAGE.

REVISIONS

NO.	DATE	BY	DESCRIPTION	CHK	APP
P02	26/03/21	AWT	NOTE 3 ADDED	RBP	JSCS
P01	11/02/21	CPW	SECTION B-B REVERSED, INITIAL ISSUE	RBP	JSCS

ISSUE STATUS

S2-FOR INFORMATION

CLIENT

BERKELEY STRATEGIC

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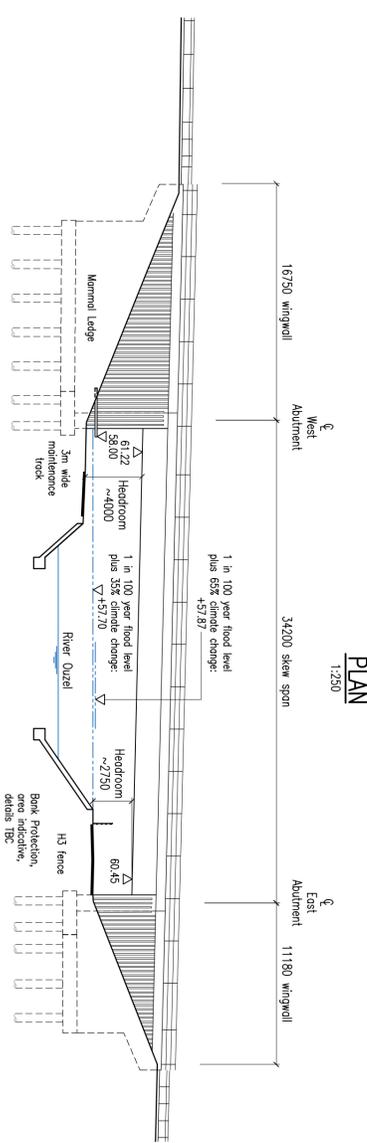
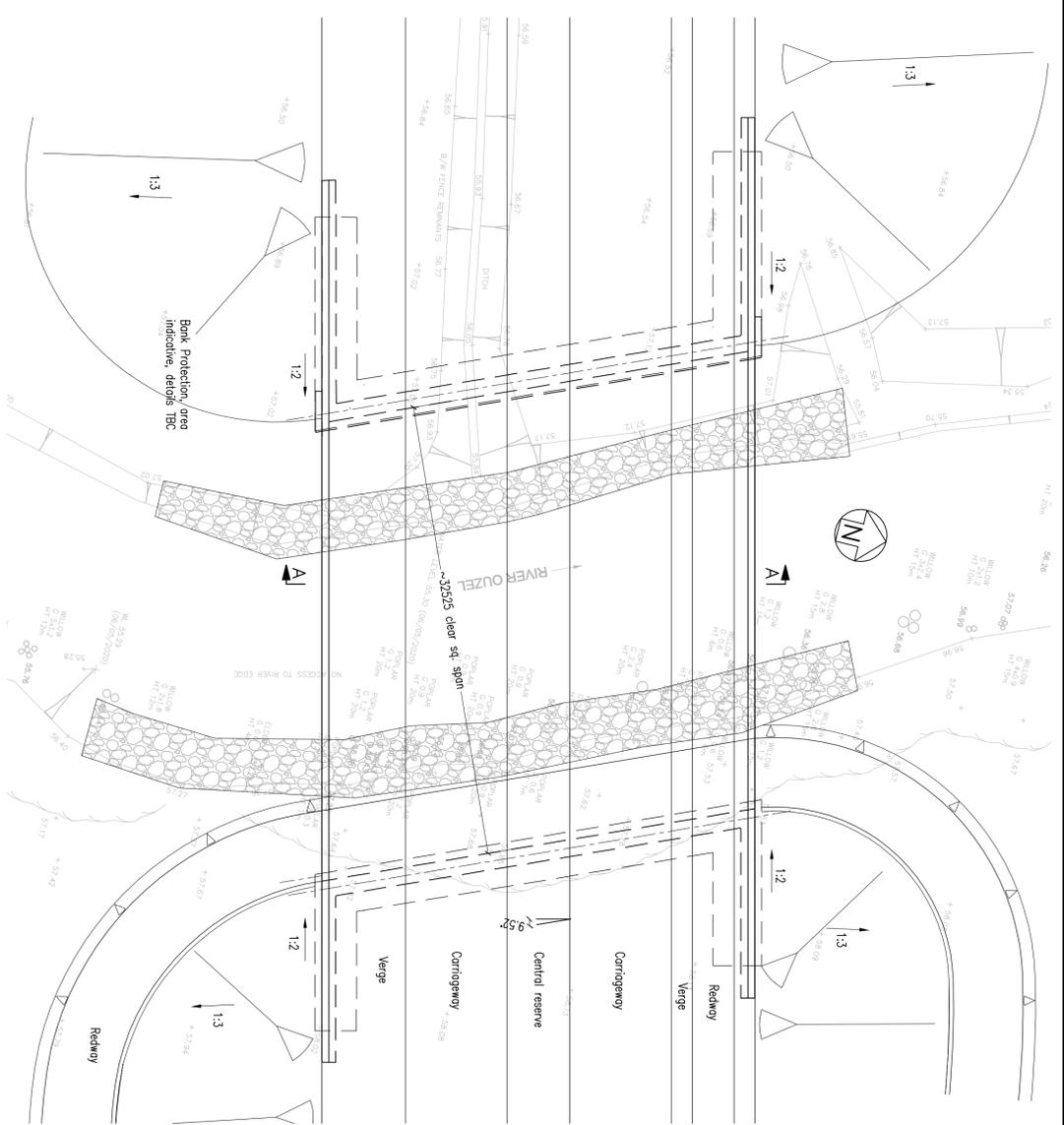
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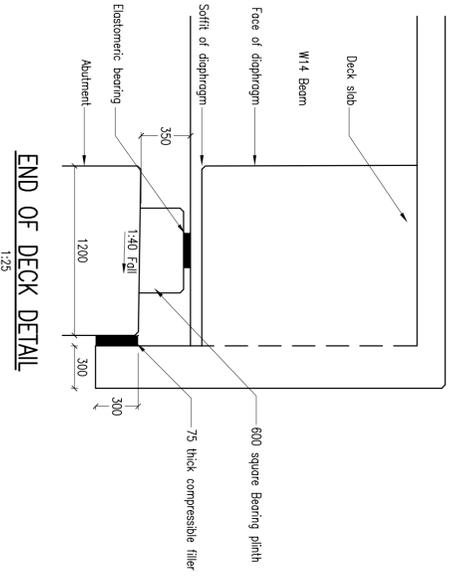
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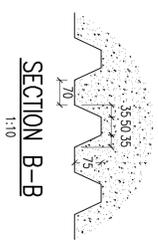
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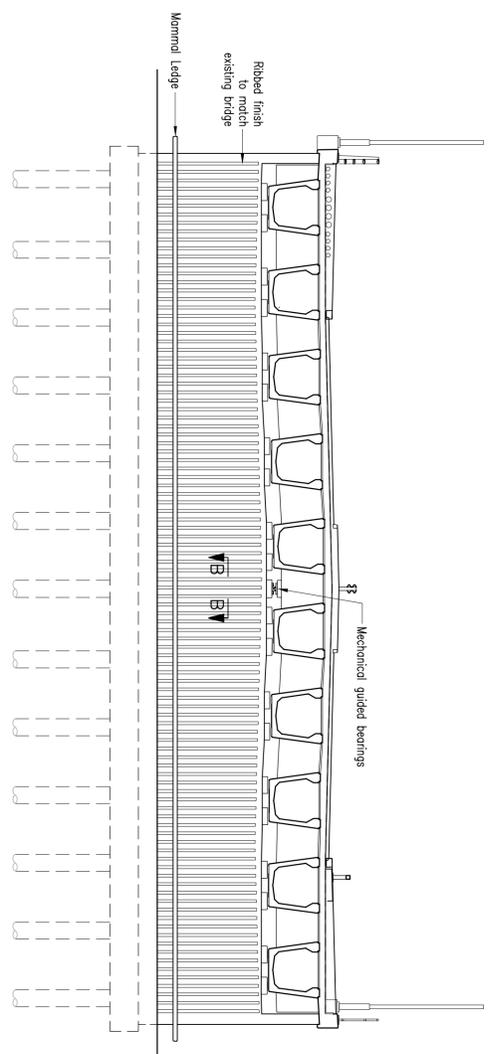
SOUTH ELEVATION (NORTH ELEVATION SIMILAR BUT HANDED)
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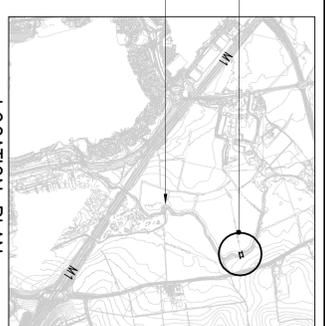
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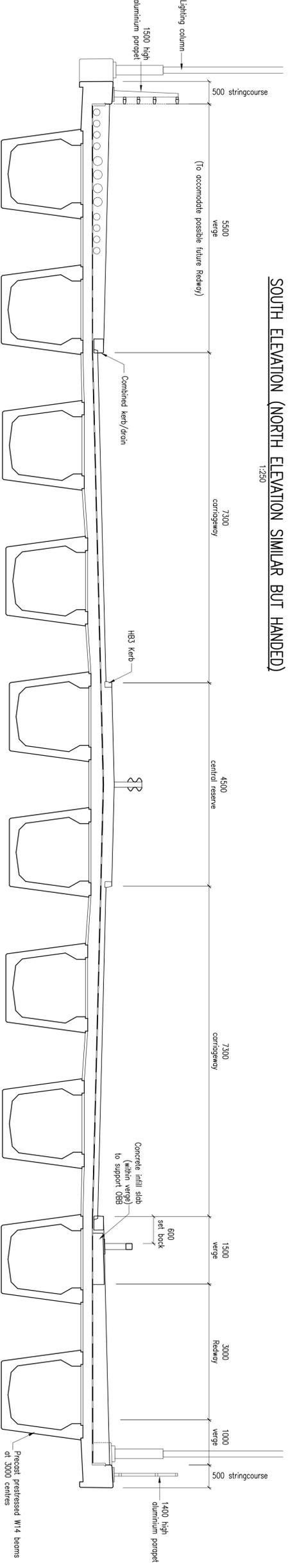
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WEST ABUTMENT ELEVATION
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LOCATION PLAN
1:25000



SECTION A-A
1:50

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.

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P03	19/03/21	AMT	GUIDED BEARINGS ADDED.	JSCS	JSCS
P02	26/02/21	AMT	SECTION B-B REVISED	RBP	JSCS
P01	02/11/20	CPW	GENERAL REVISIONS	JSCS	JSCS
			INITIAL ISSUE	JSCS	JSCS

ISSUE STATUS

S2-FOR INFORMATION

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PROJECT: MILTON KEYNES EAST

TITLE: RIVER OUZEL FLOODPLAN BRIDGE

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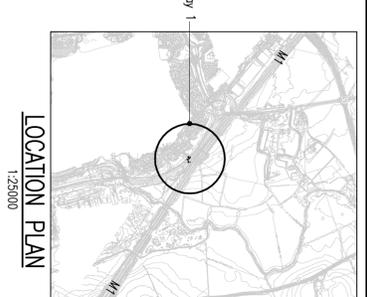
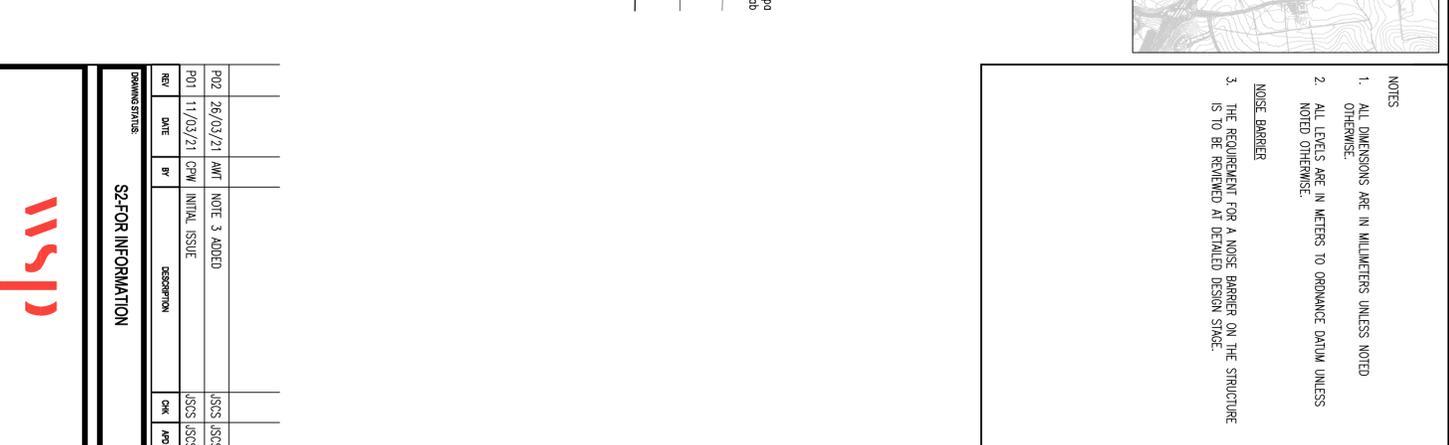
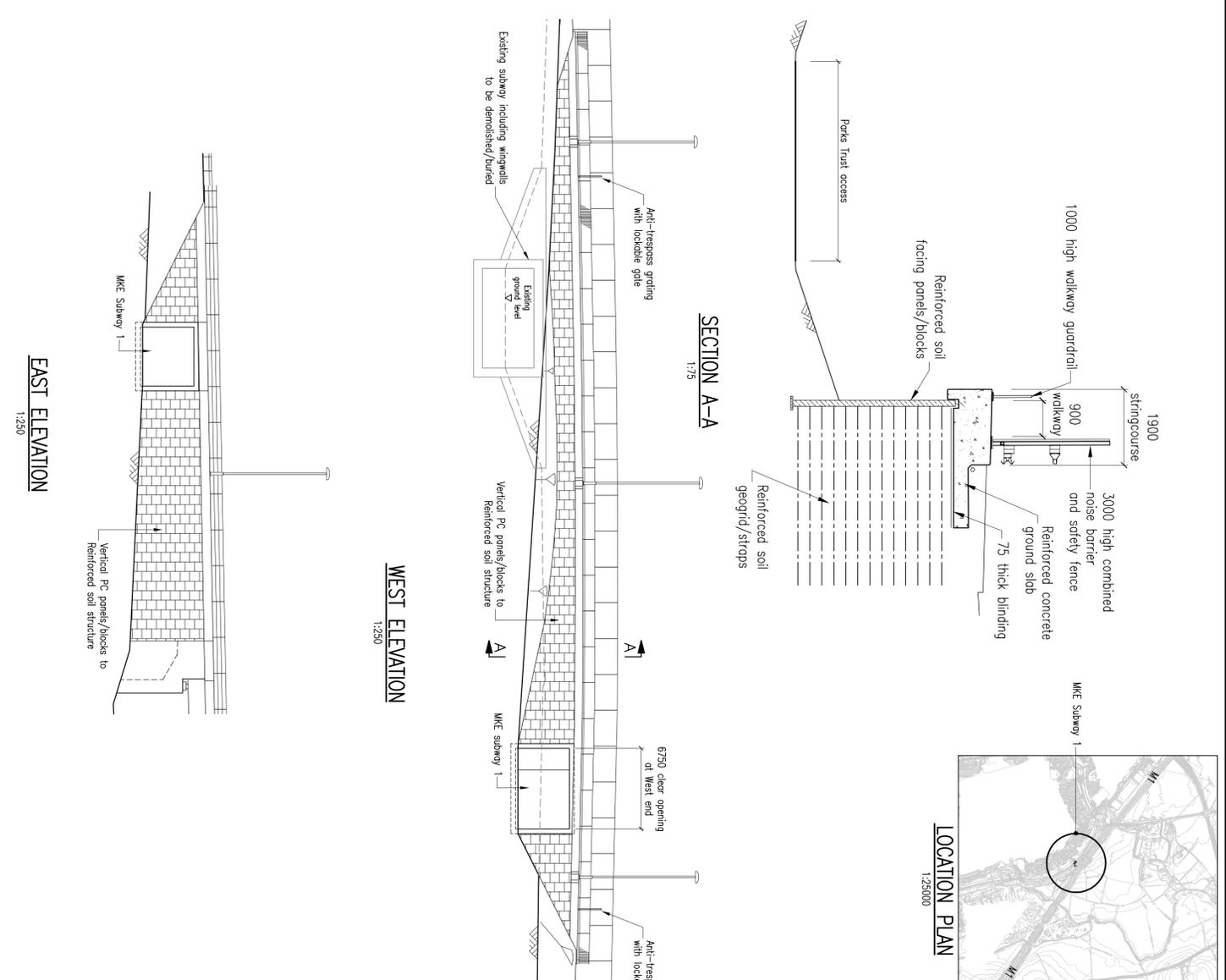
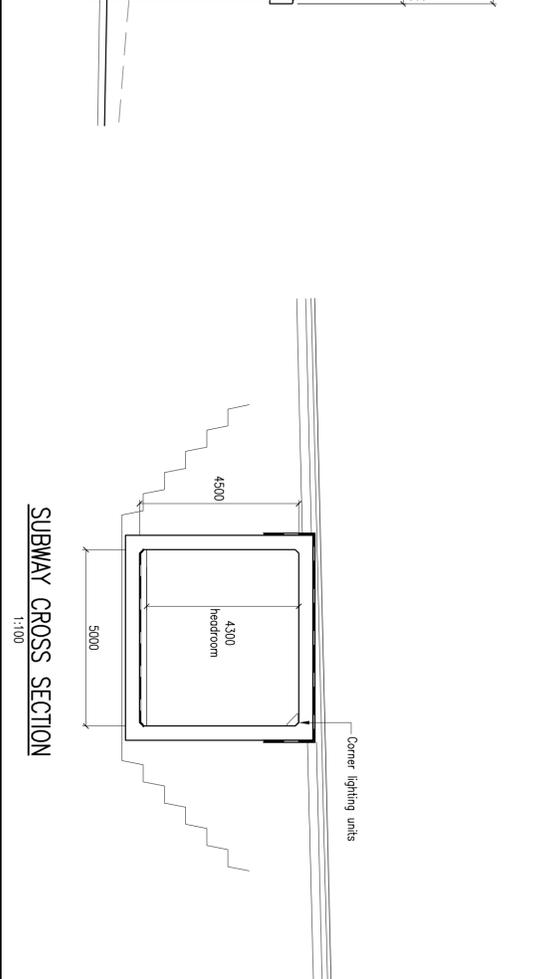
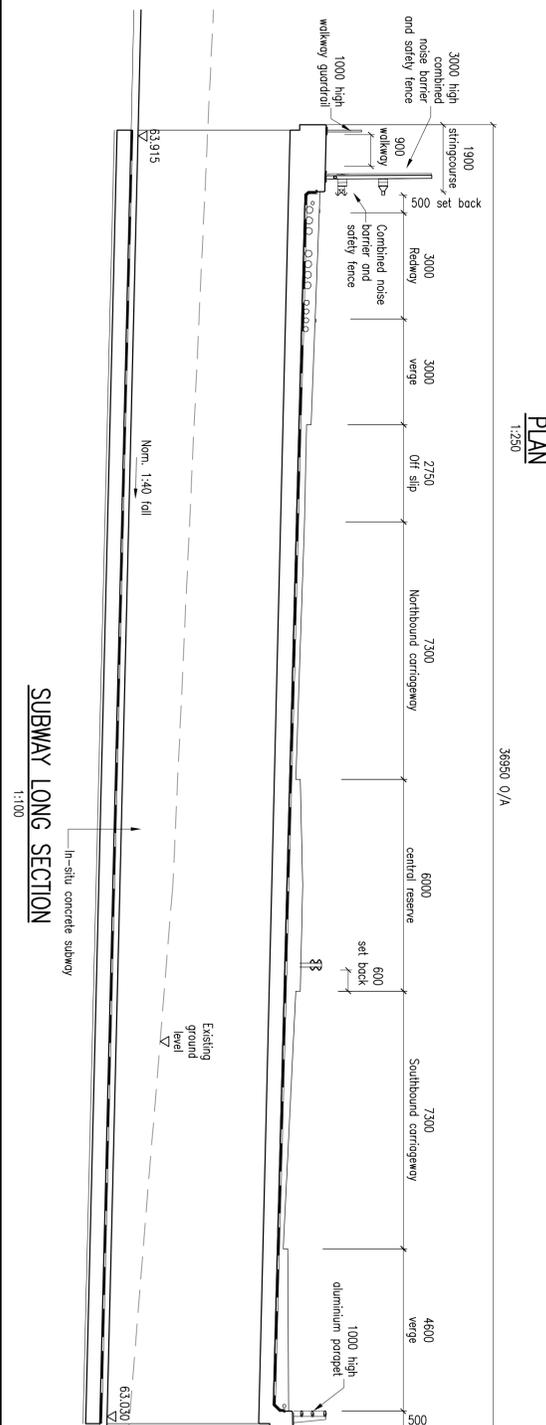
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DATE:	November 20	SCALE:	CPW

DRAWING NO: MKE-WSP-CBR-ROF-DR-RR-001

REV: P04

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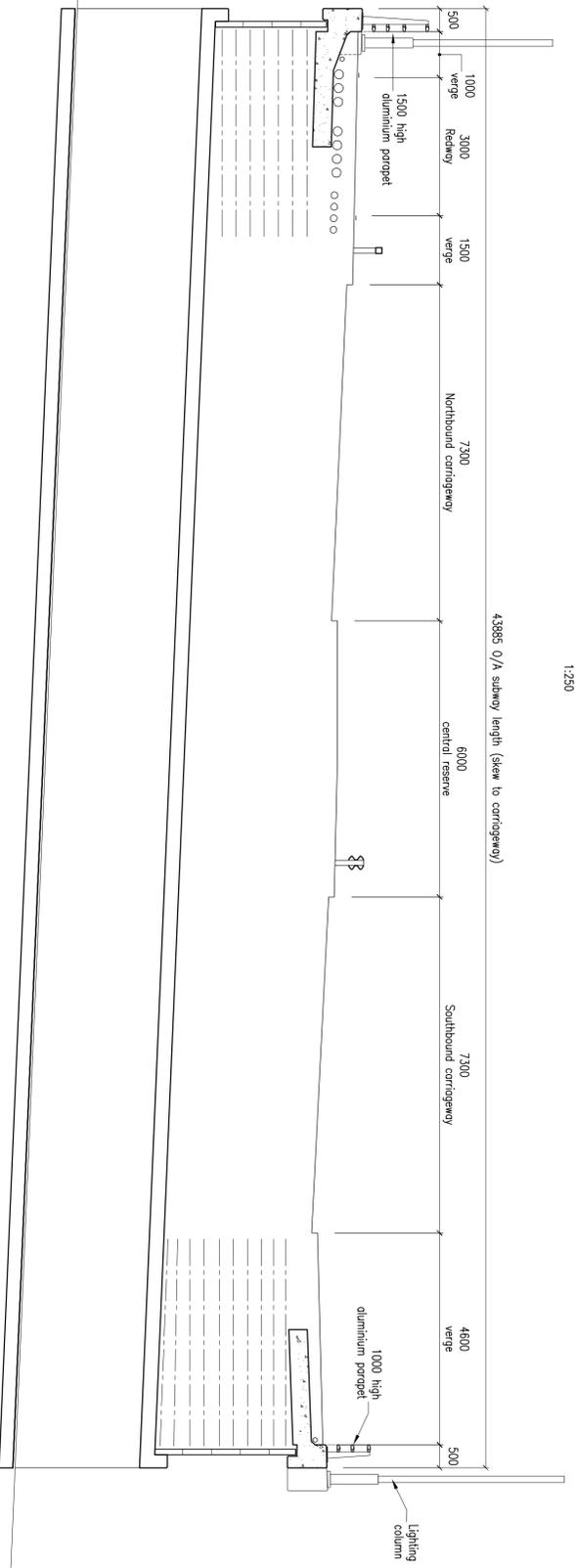


- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
 3. THE REQUIREMENT FOR A NOISE BARRIER ON THE STRUCTURE IS TO BE REMOVED AT DEFINED DESIGN STAGE.
- NOISE BARRIER**

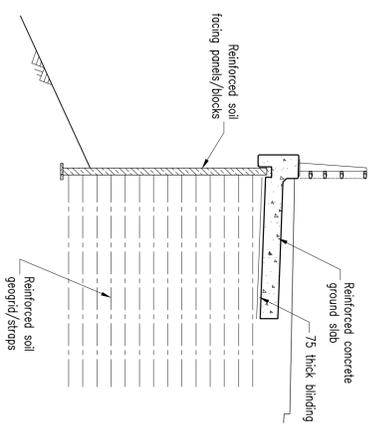
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February 21	February 21	February 21	February 21
PROJECT NO.		MKE-WSP-CBR-SW1-DR-BR-001	
PROJECT NO.		P02	
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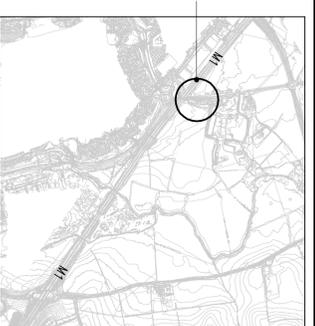
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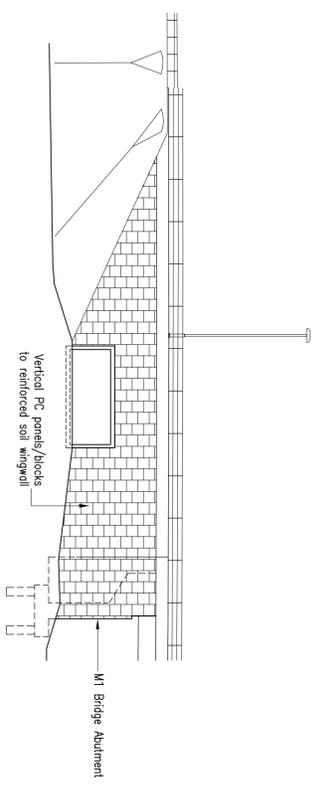
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(LOOKING UP CHAINAGE)
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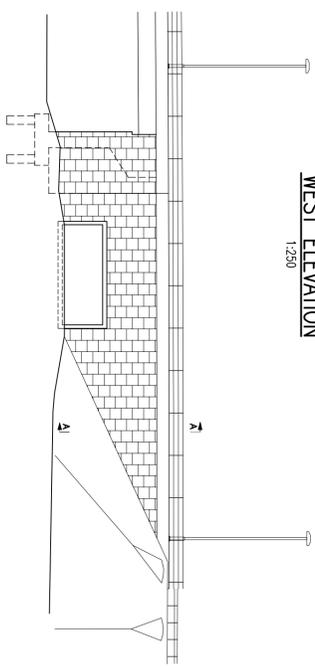
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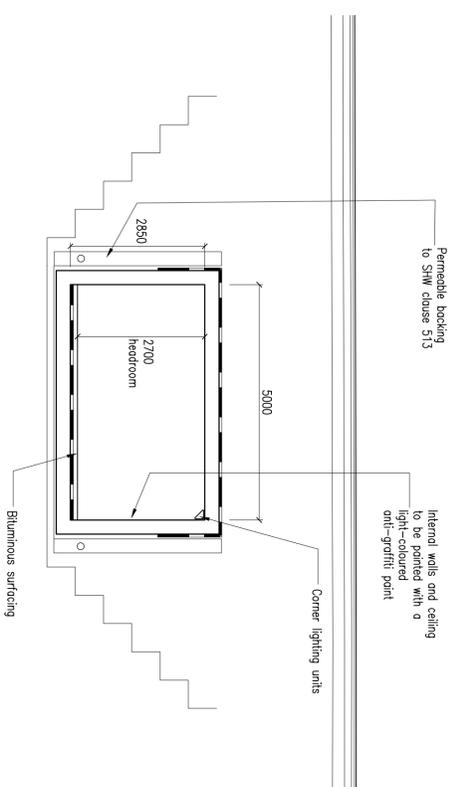
LOCATION PLAN
1:25000



WEST ELEVATION
1:250



EAST ELEVATION
1:250



SUBWAY CROSS SECTION
1:75

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.

REV	DATE	BY	DESCRIPTION	CHK	APP
P01	26/03/21	CPW	INITIAL ISSUE	JSCS	JSCS

ISSUE STATUS
S2-FOR INFORMATION

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CLIENT
BERKELEY STRATEGIC

PROJECT
MILTON KEYNES EAST

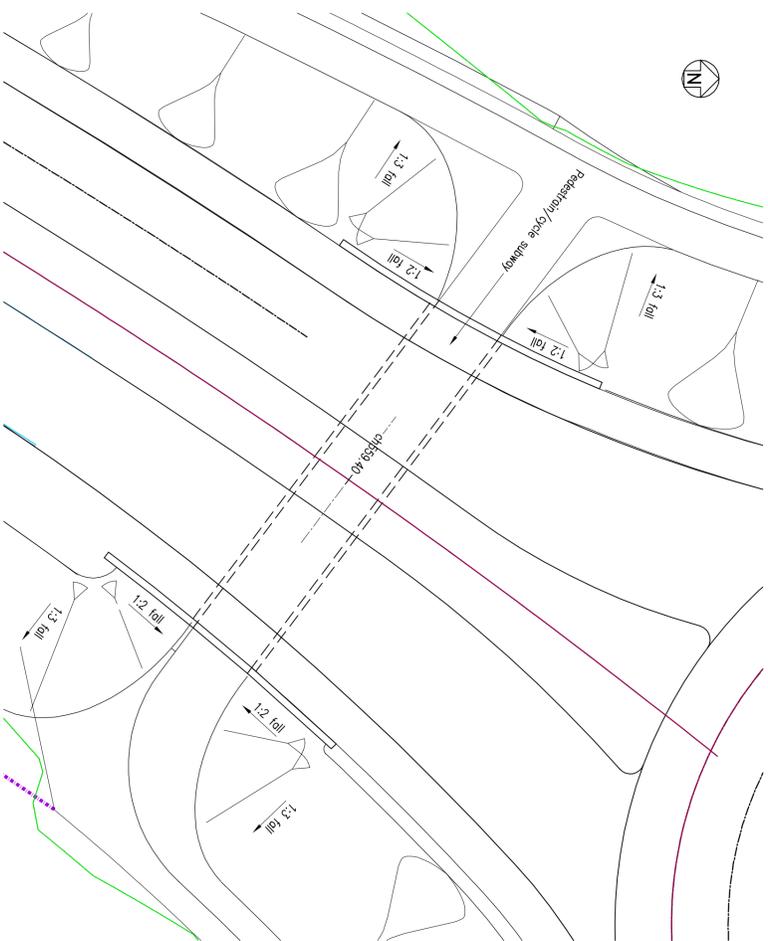
TITLE
MKE SUBWAY 2

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	JSCS	PD
PROJECT NO:	ISSUE:	REV/NO:
70014859	JSCS	CPW
	DATE:	DATE:
		February 21

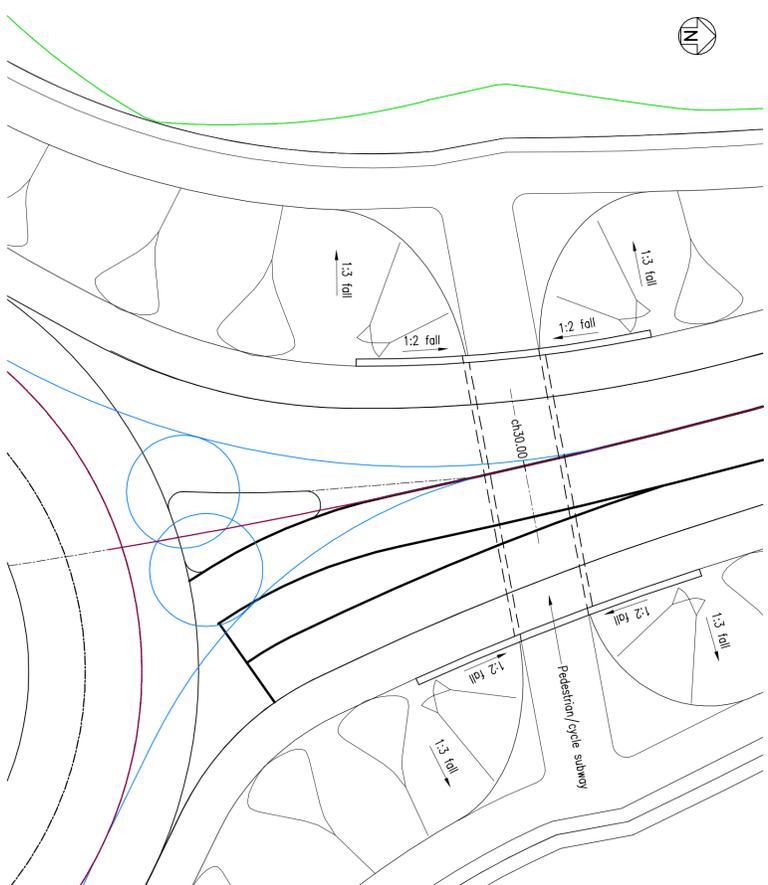
DRAWING NO: MKE-WSP-CBR-SW2-DR-BR-001

REV: P01

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MIKE SUBWAY 4 PLAN
1:250



MIKE SUBWAY 7 PLAN
1:250



MIKE SUBWAY 5 PLAN
1:250



LOCATION PLAN
1:25000

MIKE Subway 7
MIKE Subways 4&5

- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.

REV	DATE	BY	DESCRIPTION	CHK	APP
P01	26/03/21	CPW	INITIAL ISSUE	JSCS	JSCS

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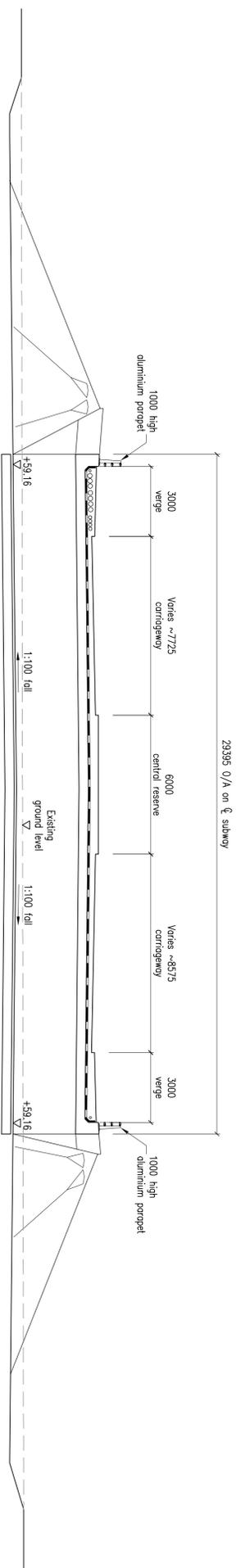
PROJECT: MILTON KEYNES EAST

TITLE: MIKE SUBWAYS 4, 5 & 7 SHEET 1 PLANS

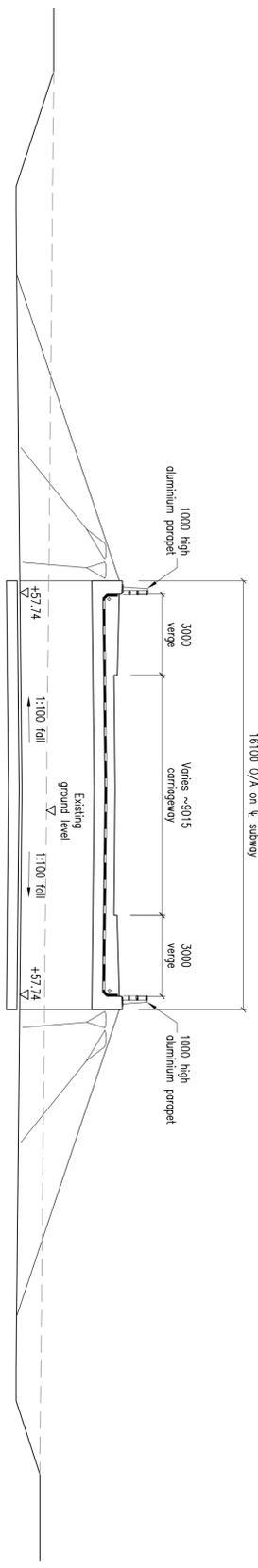
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AS SHOWN	JSCS	PD

PROJECT NO:	ISSUE:	ISSUE DATE:
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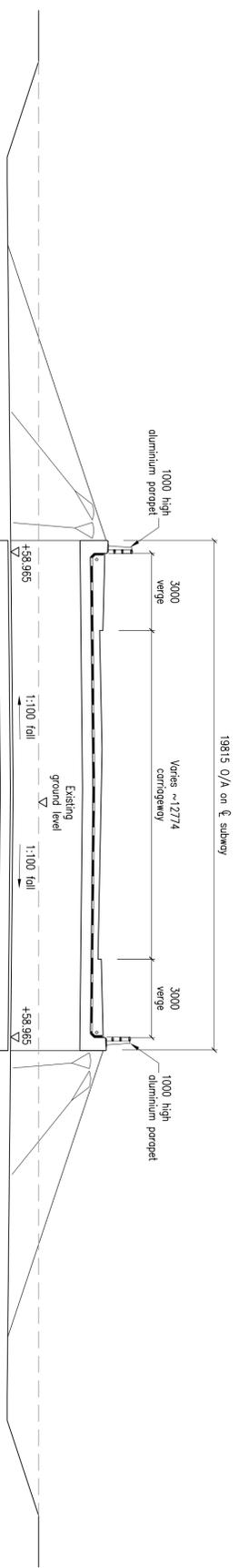
PROJECT NO:	DATE:	REV:
MIKE-WSP-CBR-SW457-DR-BR-001	March 21	P01



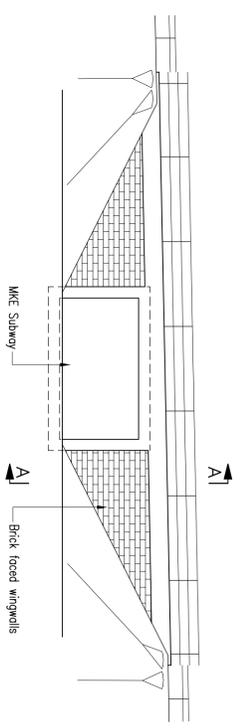
MKE SUBWAY 4 LONG SECTION
1:125



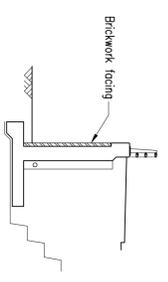
MKE SUBWAY 5 LONG SECTION
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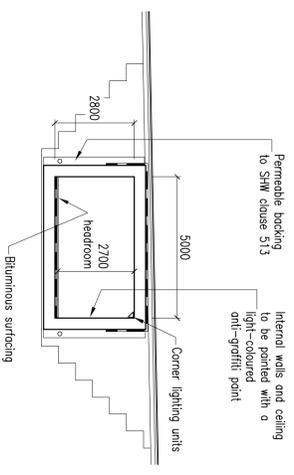
MKE SUBWAY 7 LONG SECTION
1:125



TYPICAL HEADWALL ELEVATION
1:125



SECTION A-A
1:125



TYPICAL SUBWAY CROSS SECTION
1:125

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.

REV	DATE	BY	DESCRIPTION	ISSUED TO
P01	26/03/21	CPW	INITIAL ISSUE	JSCS JSCS

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S2-FOR INFORMATION

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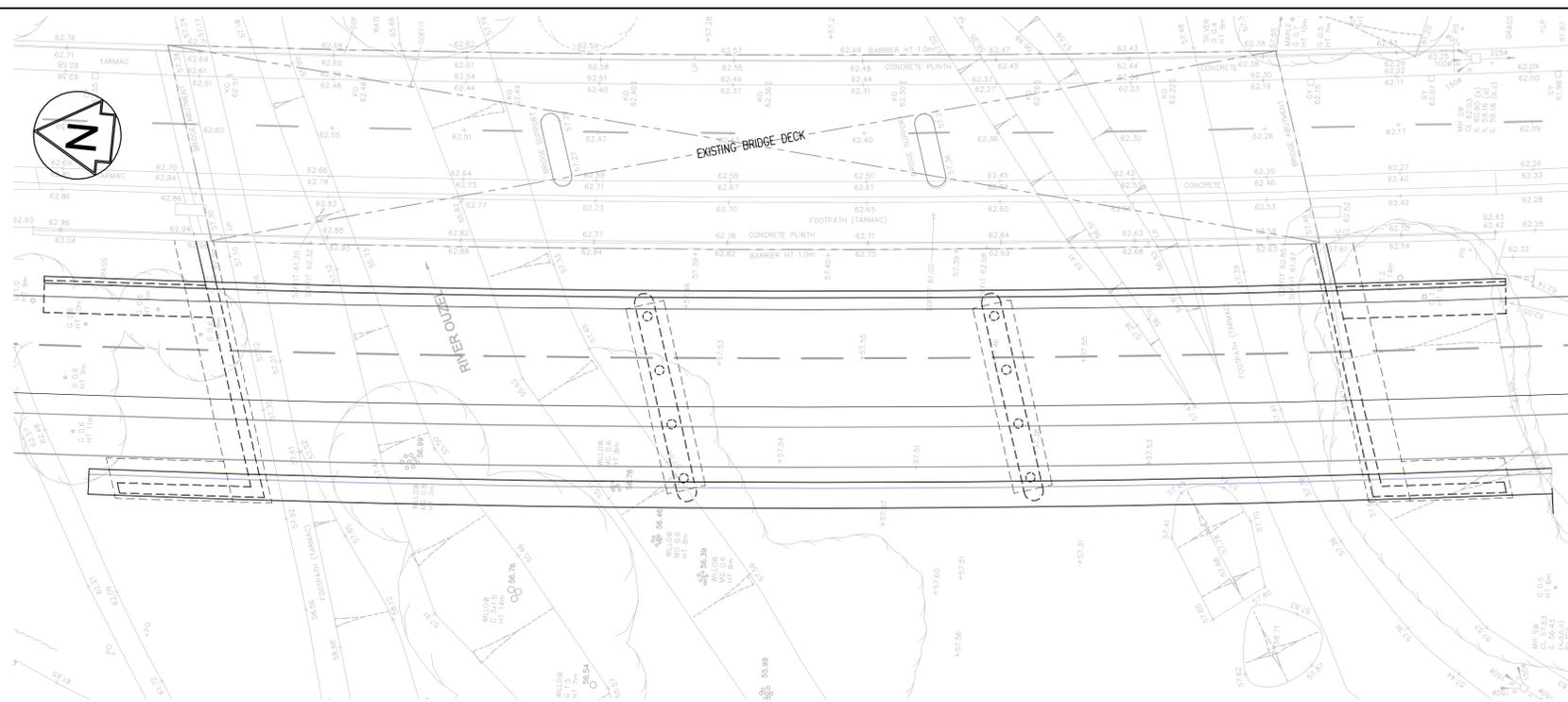
CLIENT:
BERKELEY STRATEGIC

PROJECT:
MILTON KEYNES EAST

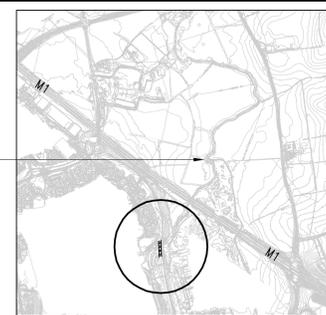
TITLE:
MKE SUBWAYS 4, 5 & 7
SHEET 2 ELEVATIONS & SECTIONS

SCALE @:	CHECKED:	ISSUED:	APPROVED:
AS SHOWN	JSCS	CPW	PD

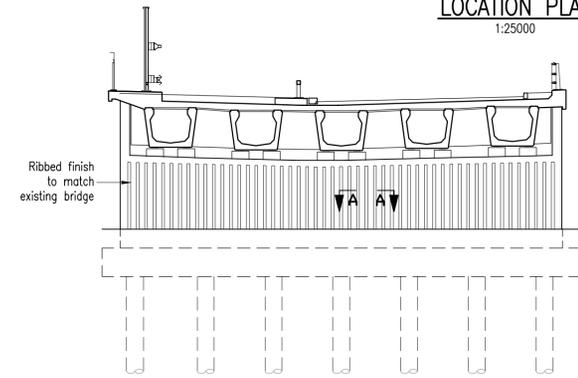
PROJECT No: 70014859
ISSUE: JSCS
DATE: March 21
PROJECT No: MKE-WSP-CBR-SW457-DR-BR-002
REV: P01



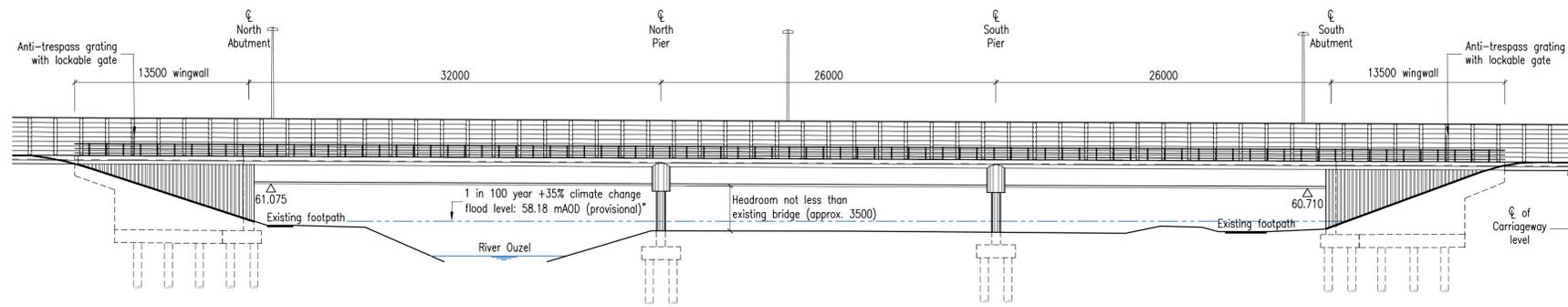
PLAN
1:250



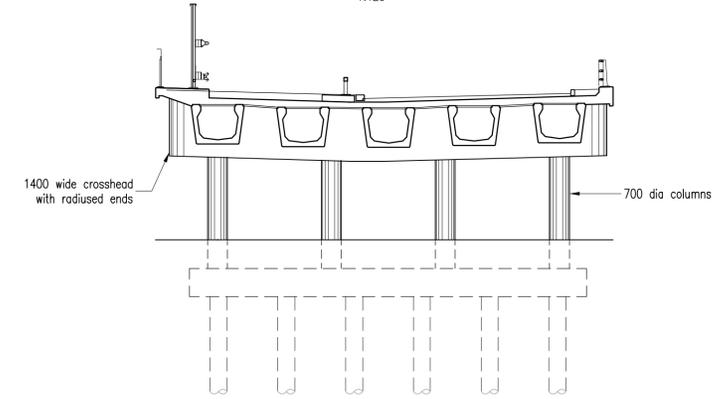
LOCATION PLAN
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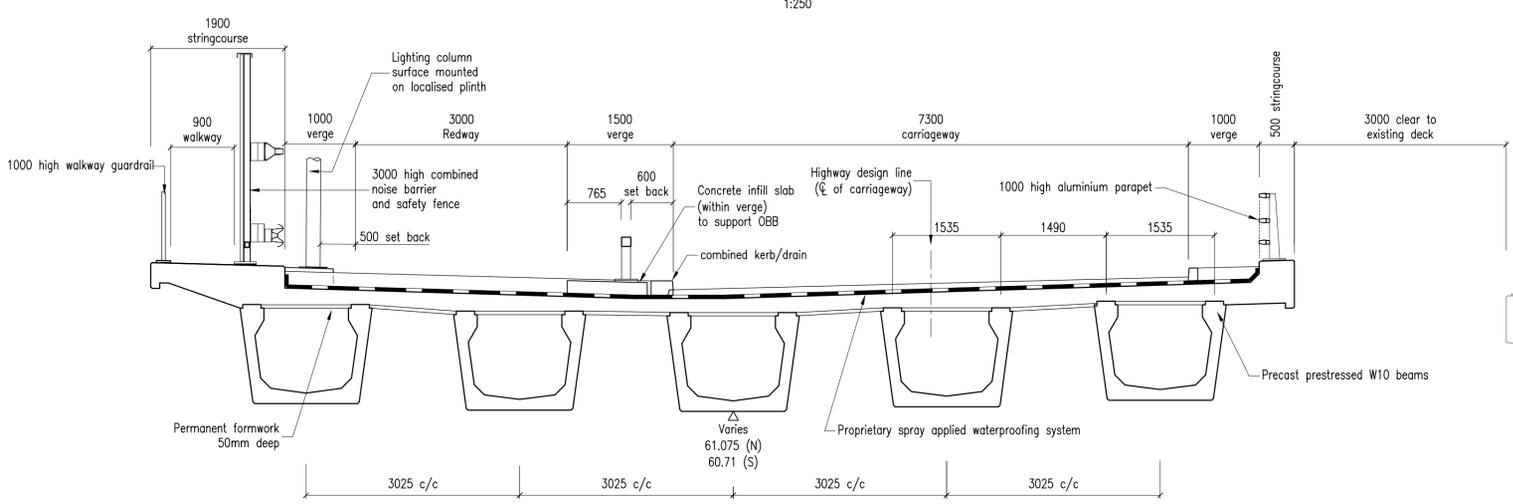
ABUTMENT ELEVATION
1:125



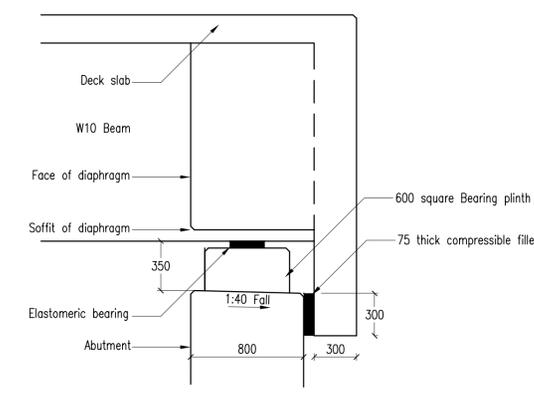
WEST ELEVATION
1:250



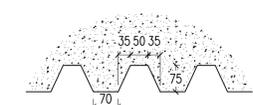
PIER ELEVATION
1:125



DECK CROSS SECTION
1:50



END OF DECK DETAIL
1:25



SECTION A-A
1:10

- NOTES
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 - ALL LEVELS ARE IN METERS TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
 - THE REQUIREMENT FOR A NOISE BARRIER ON THE STRUCTURE IS TO BE REVIEWED AT DETAILED DESIGN STAGE.

NOISE BARRIER

REV	DATE	BY	DESCRIPTION	CHK	APP
P05	26/03/21	AWT	NOTE 3 ADDED. SECTION A-A REVISED.	JSCS	JSCS
P04	20/01/21	CPW	GENERAL REVISIONS.	RBP	JSCS
P03	16/11/20	CPW	WEST ELEVATION: RIVER OUZEL PROFILE NOW SHOWN AT W PIER LOCATION. PILES ADDED.	JSCS	JSCS
P02	28/10/20	CPW	DECK LEVEL RAISED 0.2m. PLUS REVISIONS AS CLOUDED.	JSCS	JSCS
P01	14/10/20	CPW	INITIAL ISSUE	JSCS	JSCS

DRAWING STATUS: S2-FOR INFORMATION

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CLIENT: BERKELEY STRATEGIC

ARCHITECT:

SITE/PROJECT: MILTON KEYNES EAST

TITLE: TONGWELL STREET NORTHBOUND BRIDGE

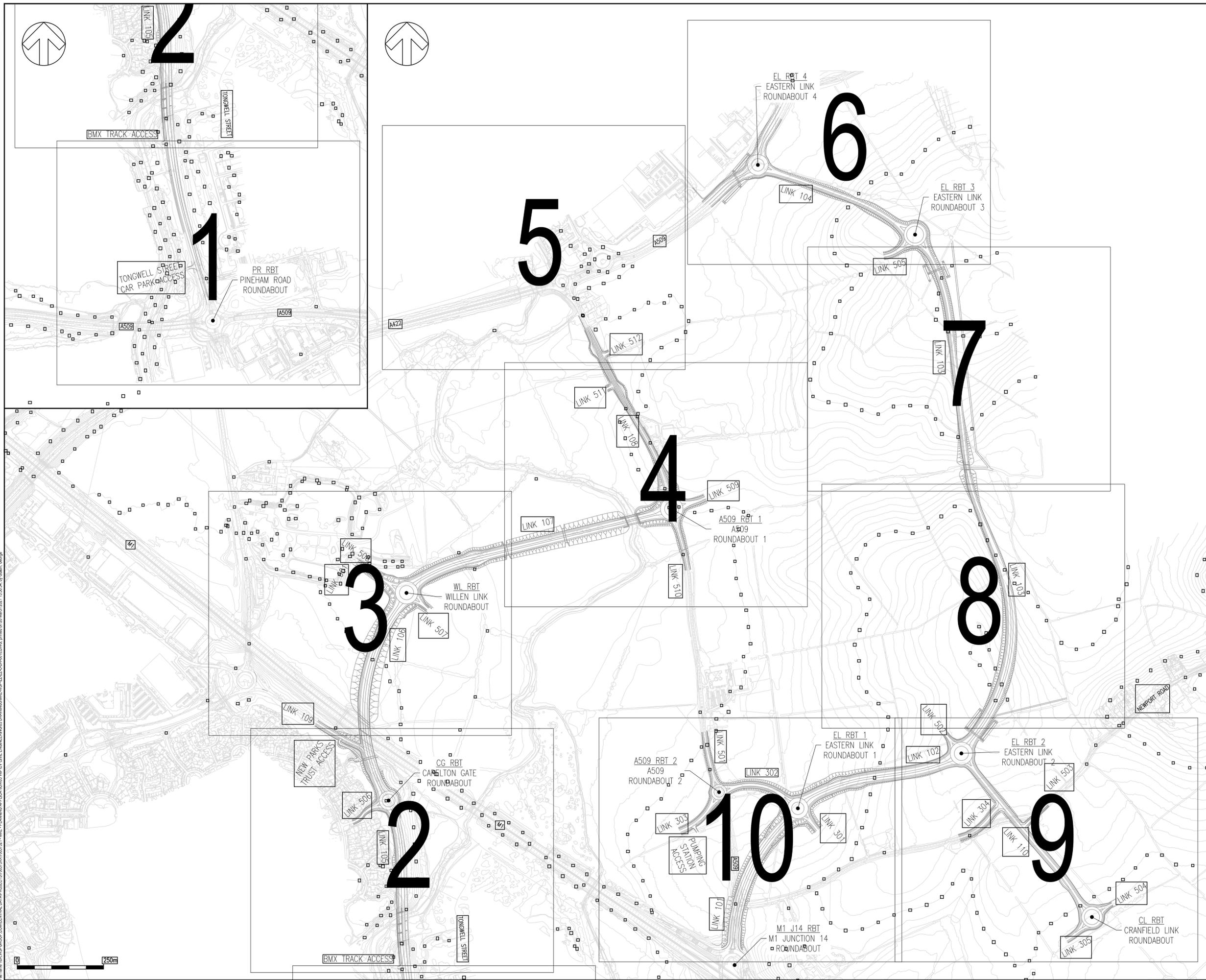
SCALE @ A1: AS SHOWN	CHECKED: JSCS	APPROVED: PD
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PROJECT No: 70014859	DESIGN: JSCS	DRAWN: CPW	DATE: January 21
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DRAWING No: MKE-WSP-CBR-TSN-DR-BR-001	REV: P05
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\\se01bos1uk.corp.pbwn.net\projects\70014859 - milton keynes east 2015\1 models and drawings\bridges\wip\mke-wsp-cbr-tsn-dr-br-001.dwg, 25/03/2021 06:01, Townrow, Alex



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ISS	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	AWP	SWP
ISS	12/03/2021	GLG	ISSUED FOR PLANNING	AWP	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S4 - FOR APPROVAL**

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

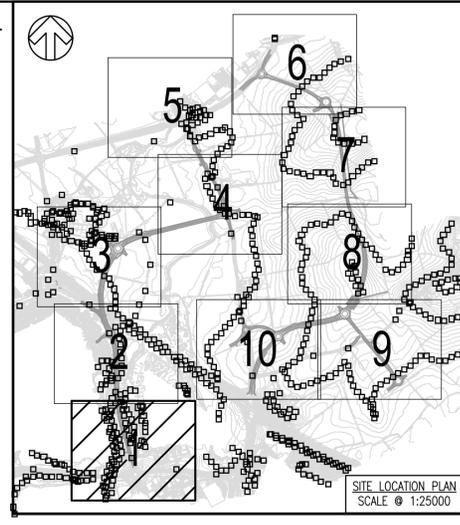
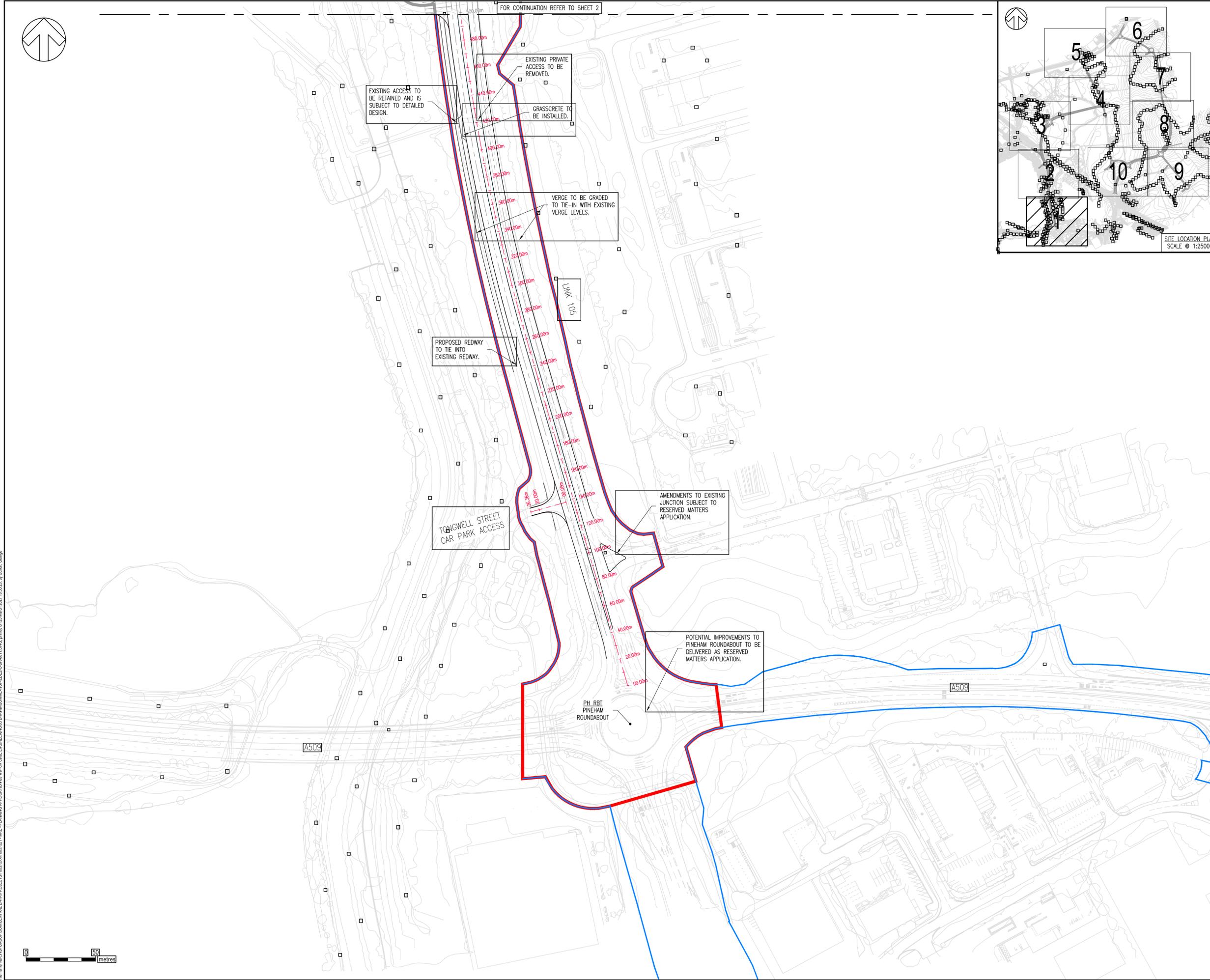
SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **GENERAL ARRANGEMENT FOR PLANNING SCHEMATIC OVERVIEW**

SCALE @ A1:	CHECKED:	APPROVED:
1:5000	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	GLG	GLG
DRAWING NO:	DATE:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0010	March 21	P02

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- NOTES:**
- DRAWINGS ARE PREPARED TO SUPPORT DETAILED ELEMENT OF HYBRID PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
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 - THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
 - THE MILTON KEYNES HIGHWAY BOUNDARY IS TAKEN FROM INTERACTIVE HIGHWAY BOUNDARY MAPPING FOUND ON THE MILTON KEYNES COUNCIL'S WEBSITE.
 - TOPOGRAPHICAL INFORMATION PROVIDED BY MK SURVEYS FILE - "28562" ON THE 11/06/2020 AND 3D ENGINEERING SURVEYS FILE - "DES21007_MKE_REV1" ON THE 22/02/2021. WSP CAN NOT ACCEPT RESPONSIBILITY FOR ANY INACCURACIES.
 - ALL REDWAYS DESIGNED IN ACCORDANCE WITH LTN 2/08.
 - EARTHWORKS SHOWN OUTSIDE THE TRANSPORTATION CORRIDOR SHALL BE REVIEWED DURING DETAILED DESIGN STAGE WITH A VIEW TO EITHER LOCALLY STEEPEN OR ADJUSTING EXISTING GROUND LEVELS SO THAT ALL WORKS ARE LOCATED WITHIN THE CORRIDOR.

KEY:

GENERAL

- PLANNING APPLICATION BOUNDARY
- HIGHWAYS ENGLAND HIGHWAY BOUNDARY
- MILTON KEYNES COUNCIL HIGHWAY BOUNDARY
- PROPOSED TRANSPORTATION CORRIDOR
- LAND SAFEGUARDED FOR FUTURE TRANSPORTATION CORRIDOR
- PROPOSED NOISE FENCE
- EXISTING TREES AND VEGETATION WITHIN EXISTING HIGHWAY BOUNDARY IMPACTED BY THE PROPOSED WORKS (OTHER EXISTING TREES OUTSIDE THE EXISTING HIGHWAY BOUNDARY MAY BE AFFECTED AND FORM OF NOISE BARRIER TO BE DETERMINED DURING DETAILED DESIGN)
- PROPOSED VEHICLE RESTRAINT SYSTEM (VRS)

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	ARP	SAP
P02	12/03/2021	GLG	ISSUED FOR PLANNING	ARP	SAP
P01	15/01/2021	DPL	FIRST ISSUE	ARP	SAP

DRAWING STATUS: **S4 - FOR APPROVAL**

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **GENERAL ARRANGEMENT FOR PLANNING SHEET 1**

SCALE @ A1:	CHECKED:	APPROVED:
1:1250	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
DRAWING NO:	DATE:	REV:
MKE-WSP-ZZ-ZZ-C-DR-0011	March 21	P03

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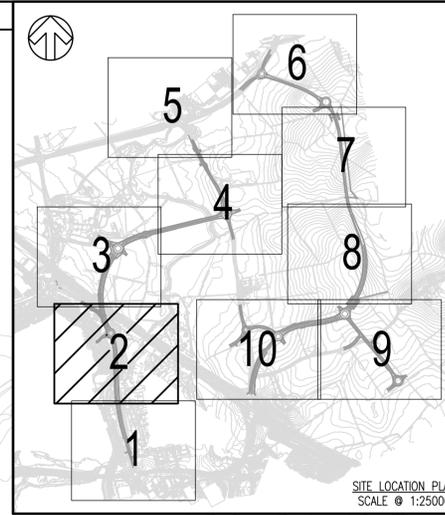


FOR CONTINUATION REFER TO SHEET 3

CARELTON GATE ROUNDABOUT (CG RBT)		
ICD	55.000m	
NO. OF CIRCULATORY LANES	3	
CARRIAGEWAY LANE INFORMATION		
LINK REFERENCE	NO. OF LANES ON CARRIAGEWAY LINK	NO. OF LANES ON APPROACH/AT GIVE WAY LINE TO ROUNDABOUT
105	2	3
106	1	2
506	2	3



FOR CONTINUATION REFER TO SHEET 1



NOTES:

- DRAWINGS ARE PREPARED TO SUPPORT DETAILED ELEMENT OF HYBRID PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
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- THE MILTON KEYNES HIGHWAY BOUNDARY IS TAKEN FROM INTERACTIVE HIGHWAY BOUNDARY MAPPING FOUND ON THE MILTON KEYNES COUNCIL'S WEBSITE.
- TOPOGRAPHICAL INFORMATION PROVIDED BY MK SURVEYS FILE - "28562" ON THE 11/06/2020 AND 3D ENGINEERING SURVEYS FILE - "DES21007_MKE_REV1" ON THE 22/02/2021. WSP CAN NOT ACCEPT RESPONSIBILITY FOR ANY INACCURACIES.
- ALL REDWAYS DESIGNED IN ACCORDANCE WITH LTN 2/08.
- EARTHWORKS SHOWN OUTSIDE THE TRANSPORTATION CORRIDOR SHALL BE REVIEWED DURING DETAILED DESIGN STAGE WITH A VIEW TO EITHER LOCALLY STEEPEN OR ADJUSTING EXISTING GROUND LEVELS SO THAT ALL WORKS ARE LOCATED WITHIN THE CORRIDOR.

KEY:

- GENERAL**
- PLANNING APPLICATION BOUNDARY
 - HIGHWAYS ENGLAND HIGHWAY BOUNDARY
 - MILTON KEYNES COUNCIL HIGHWAY BOUNDARY
 - PROPOSED TRANSPORTATION CORRIDOR
 - LAND SAFEGUARDED FOR FUTURE TRANSPORTATION CORRIDOR
 - PROPOSED NOISE FENCE
 - EXISTING TREES AND VEGETATION WITHIN EXISTING HIGHWAY BOUNDARY IMPACTED BY THE PROPOSED WORKS (OTHER EXISTING TREES OUTSIDE THE EXISTING HIGHWAY BOUNDARY MAY BE AFFECTED AND FORM OF NOISE BARRIER TO BE DETERMINED DURING DETAILED DESIGN)
 - PROPOSED VEHICLE RESTRAINT SYSTEM (VRS)

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

P03	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	ARP	SAP
P02	12/03/2021	GLG	ISSUED FOR PLANNING	ARP	SAP
P01	15/01/2021	OPL	FIRST ISSUE	ARP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

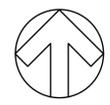
TITLE: GENERAL ARRANGEMENT FOR PLANNING SHEET 2

SCALE @ A1:	1:1250	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	GLG
				DATE:	January 21

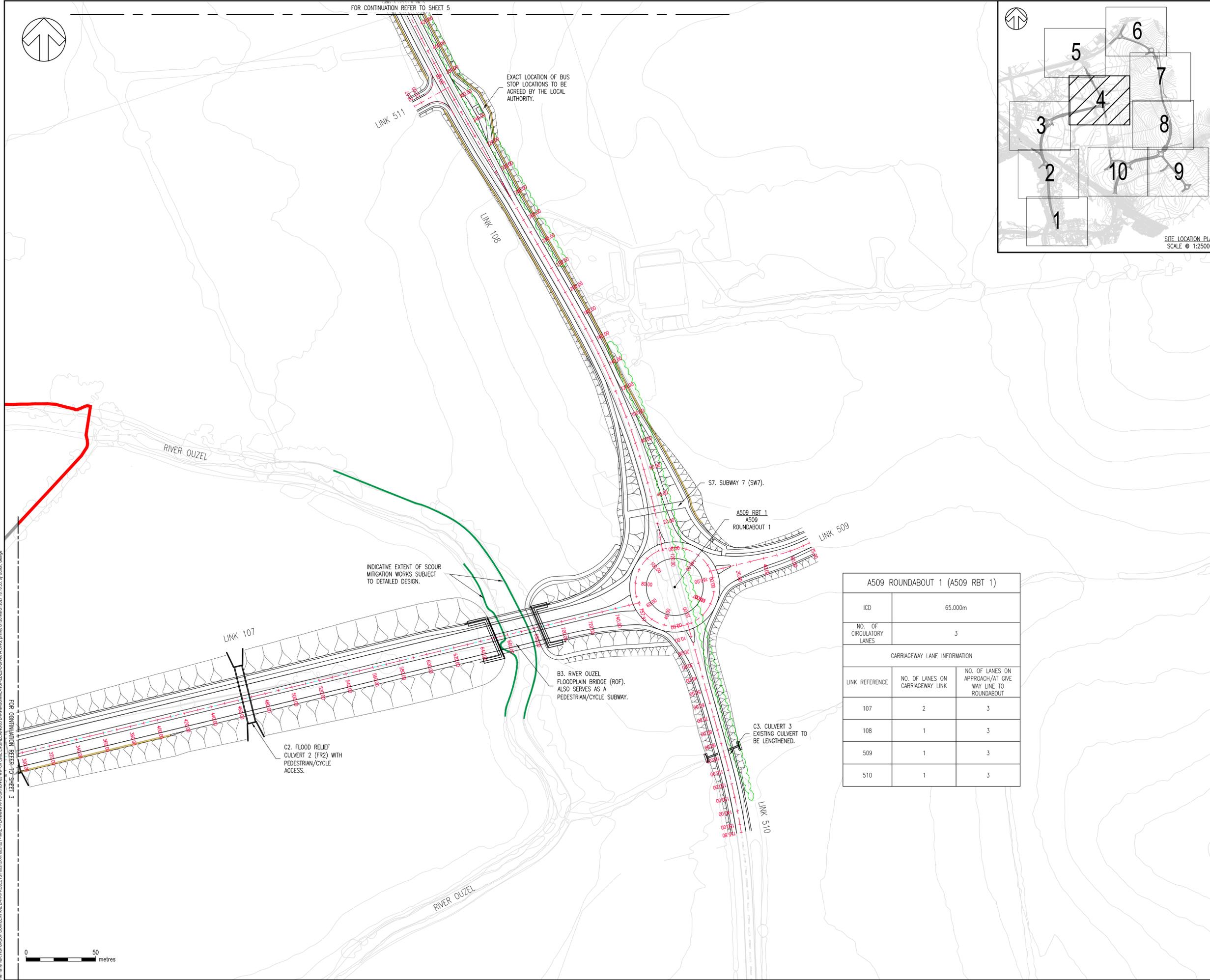
DRAWING NO: MKE-WSP-ZZ-ZZ-C-DR-0012 REV: P03

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File name: \\UK.WSPGROUP.COM\CENTRAL_DATA\PROJECTS\70057521\MKE - PLANNING APPLICATIONS\WPCY CIVIL ENGINEERING\DRAWINGS\MKE-WSP-ZZ-ZZ-C-DR-0012.DWG, printed on 25 March 2021 15:28:52, by Gullon, George



FOR CONTINUATION REFER TO SHEET 5



EXACT LOCATION OF BUS STOP LOCATIONS TO BE AGREED BY THE LOCAL AUTHORITY.

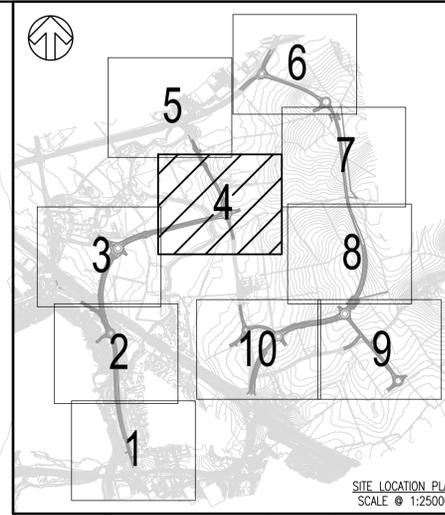
INDICATIVE EXTENT OF SCOUR MITIGATION WORKS SUBJECT TO DETAILED DESIGN.

B3. RIVER OUZEL FLOODPLAIN BRIDGE (ROF). ALSO SERVES AS A PEDESTRIAN/CYCLE SUBWAY.

C2. FLOOD RELIEF CULVERT 2 (FR2) WITH PEDESTRIAN/CYCLE ACCESS.

C3. CULVERT 3 EXISTING CULVERT TO BE LENGTHENED.

A509 ROUNDABOUT 1 (A509 RBT 1)		
ICD	65.000m	
NO. OF CIRCULATORY LANES	3	
CARRIAGEWAY LANE INFORMATION		
LINK REFERENCE	NO. OF LANES ON CARRIAGEWAY LINK	NO. OF LANES ON APPROACH/AT GIVE WAY LINE TO ROUNDABOUT
107	2	3
108	1	3
509	1	3
510	1	3



SITE LOCATION PLAN SCALE @ 1:25000

NOTES:

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KEY:

- GENERAL**
- PLANNING APPLICATION BOUNDARY
 - HIGHWAYS ENGLAND HIGHWAY BOUNDARY
 - MILTON KEYNES COUNCIL HIGHWAY BOUNDARY
 - PROPOSED TRANSPORTATION CORRIDOR
 - LAND SAFEGUARDED FOR FUTURE TRANSPORTATION CORRIDOR
 - PROPOSED NOISE FENCE
 - EXISTING TREES AND VEGETATION WITHIN EXISTING HIGHWAY BOUNDARY IMPACTED BY THE PROPOSED WORKS (OTHER EXISTING TREES OUTSIDE THE EXISTING HIGHWAY BOUNDARY MAY BE AFFECTED AND FORM OF NOISE BARRIER TO BE DETERMINED DURING DETAILED DESIGN)
 - PROPOSED VEHICLE RESTRAINT SYSTEM (VRS)

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	ARP	SAP
P02	12/03/2021	GLG	ISSUED FOR PLANNING	ARP	SAP
P01	15/01/2021	OPL	FIRST ISSUE	ARP	SAP

DRAWING STATUS: S4 - FOR APPROVAL

Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK
T+44 (0) 2380 101 700
wsp.com

CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: GENERAL ARRANGEMENT FOR PLANNING SHEET 4

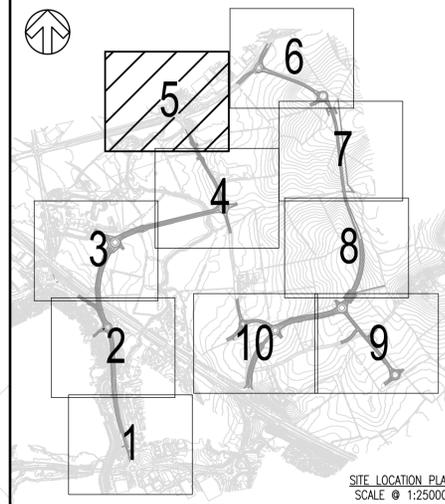
SCALE @ A1:	CHECKED:	APPROVED:	
1:1250	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	March 21

DRAWING NO: MKE-WSP-ZZ-ZZ-C-DR-0014 REV: P03

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File name: \\UK.VSPGROUP.COM\CENTRAL_DATA\PROJECTS\0057521\MKE - PLANNING APPLICATIONS\WSP\0057521 - MKE - PLANNING APPLICATIONS\WSP\ZZ-C-DR-0014.DWG, printed on: 28 March 2021 10:10:33, by: Galen, George





SITE LOCATION PLAN
SCALE @ 1:25000

NOTES:

- DRAWINGS ARE PREPARED TO SUPPORT DETAILED ELEMENT OF HYBRID PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
- THIS DRAWING IS NOT TO BE REPRODUCED IN ANY PART OF FORM WITHOUT PRIOR CONSENT FROM WSP UK LIMITED. ALL COPY RIGHT RESERVED.
- CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
- THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
- THE MILTON KEYNES HIGHWAY BOUNDARY IS TAKEN FROM INTERACTIVE HIGHWAY BOUNDARY MAPPING FOUND ON THE MILTON KEYNES COUNCIL'S WEBSITE.
- TOPOGRAPHICAL INFORMATION PROVIDED BY MK SURVEYS FILE - "28562" ON THE 11/06/2020 AND 3D ENGINEERING SURVEYS FILE - "DES21007_MKE_REV1" ON THE 22/02/2021. WSP CAN NOT ACCEPT RESPONSIBILITY FOR ANY INACCURACIES.
- ALL REDWAYS DESIGNED IN ACCORDANCE WITH LTN 2/08.
- EARTHWORKS SHOWN OUTSIDE THE TRANSPORTATION CORRIDOR SHALL BE REVIEWED DURING DETAILED DESIGN STAGE WITH A VIEW TO EITHER LOCALLY STEEPEN OR ADJUSTING EXISTING GROUND LEVELS SO THAT ALL WORKS ARE LOCATED WITHIN THE CORRIDOR.

KEY:

- GENERAL**
- PLANNING APPLICATION BOUNDARY
 - HIGHWAYS ENGLAND HIGHWAY BOUNDARY
 - MILTON KEYNES COUNCIL HIGHWAY BOUNDARY
 - PROPOSED TRANSPORTATION CORRIDOR
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 - PROPOSED NOISE FENCE
 - EXISTING TREES AND VEGETATION WITHIN EXISTING HIGHWAY BOUNDARY IMPACTED BY THE PROPOSED WORKS (OTHER EXISTING TREES OUTSIDE THE EXISTING HIGHWAY BOUNDARY MAY BE AFFECTED AND FORM OF NOISE BARRIER TO BE DETERMINED DURING DETAILED DESIGN)
 - PROPOSED VEHICLE RESTRAINT SYSTEM (VRS)

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P03	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P02	12/03/2021	GLG	UPDATED FOR PLANNING SUBMISSION	APP	SAP
P01	15/01/2021	OPL	FIRST ISSUE	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S4 - FOR APPROVAL**

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wsp.com

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

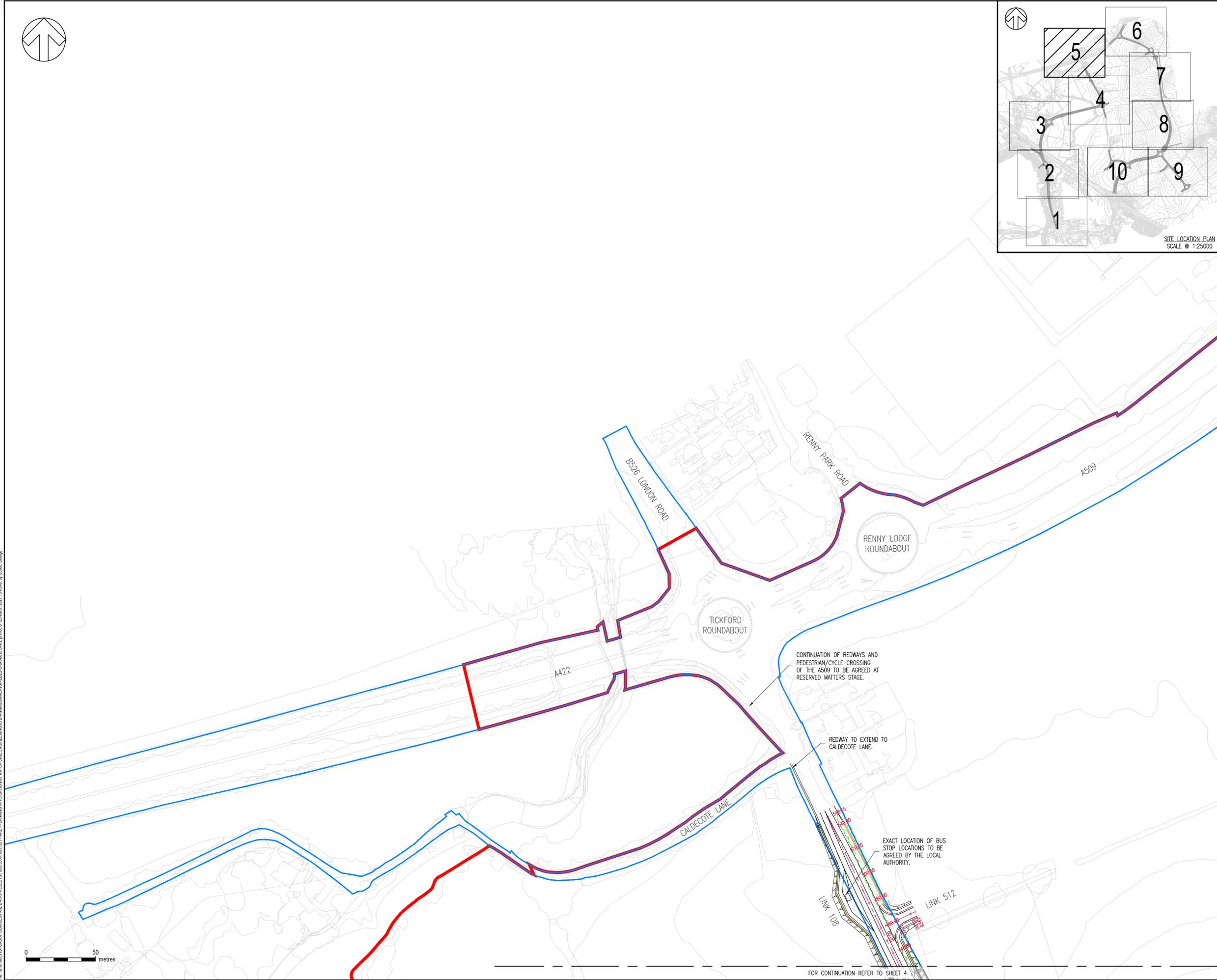
SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **GENERAL ARRANGEMENT FOR PLANNING SHEET 5**

SCALE @ A1:	1:1250	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	GLG
				DATE:	March 21

DRAWING NO: **MKE-WSP-ZZ-ZZ-C-DR-0015** REV: **P03**

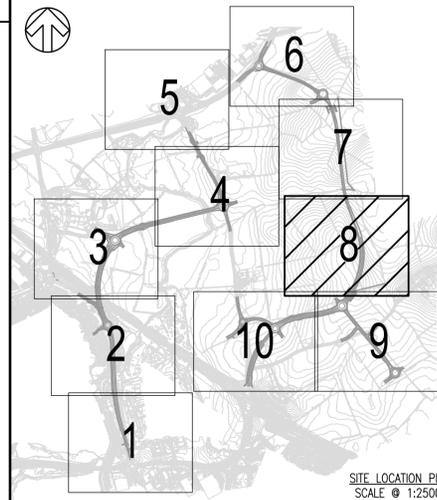
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File name: \\UK.WSPGROUP.COM\CENTRAL_DATA\PROJECTS\70057521\MKE - PLANNING APPLICATIONS\WSP\CIVIL ENGINEERING\DRAWINGS\MKE-WSP-ZZ-ZZ-C-DR-0015.DWG, printed on 25 March 2021 15:43:48, by Galen George



FOR CONTINUATION REFER TO SHEET 7



NOTES:

- DRAWINGS ARE PREPARED TO SUPPORT DETAILED ELEMENT OF HYBRID PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
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- THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
- THE MILTON KEYNES HIGHWAY BOUNDARY IS TAKEN FROM INTERACTIVE HIGHWAY BOUNDARY MAPPING FOUND ON THE MILTON KEYNES COUNCIL'S WEBSITE.
- TOPOGRAPHICAL INFORMATION PROVIDED BY MK SURVEYS FILE - "28562" ON THE 11/06/2020 AND 3D ENGINEERING SURVEYS FILE - "DES21007_MKE_REV1" ON THE 22/02/2021. WSP CAN NOT ACCEPT RESPONSIBILITY FOR ANY INACCURACIES.
- ALL REDWAYS DESIGNED IN ACCORDANCE WITH LTN 2/08.
- EARTHWORKS SHOWN OUTSIDE THE TRANSPORTATION CORRIDOR SHALL BE REVIEWED DURING DETAILED DESIGN STAGE WITH A VIEW TO EITHER LOCALLY STEEPEN OR ADJUSTING EXISTING GROUND LEVELS SO THAT ALL WORKS ARE LOCATED WITHIN THE CORRIDOR.

KEY:

- GENERAL**
- PLANNING APPLICATION BOUNDARY
 - HIGHWAYS ENGLAND HIGHWAY BOUNDARY
 - MILTON KEYNES COUNCIL HIGHWAY BOUNDARY
 - PROPOSED TRANSPORTATION CORRIDOR
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 - PROPOSED NOISE FENCE
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 - PROPOSED VEHICLE RESTRAINT SYSTEM (VRS)

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PO3	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	ARP	SAP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	ARP	SAP
PO1	15/01/2021	OPL	FIRST ISSUE	ARP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

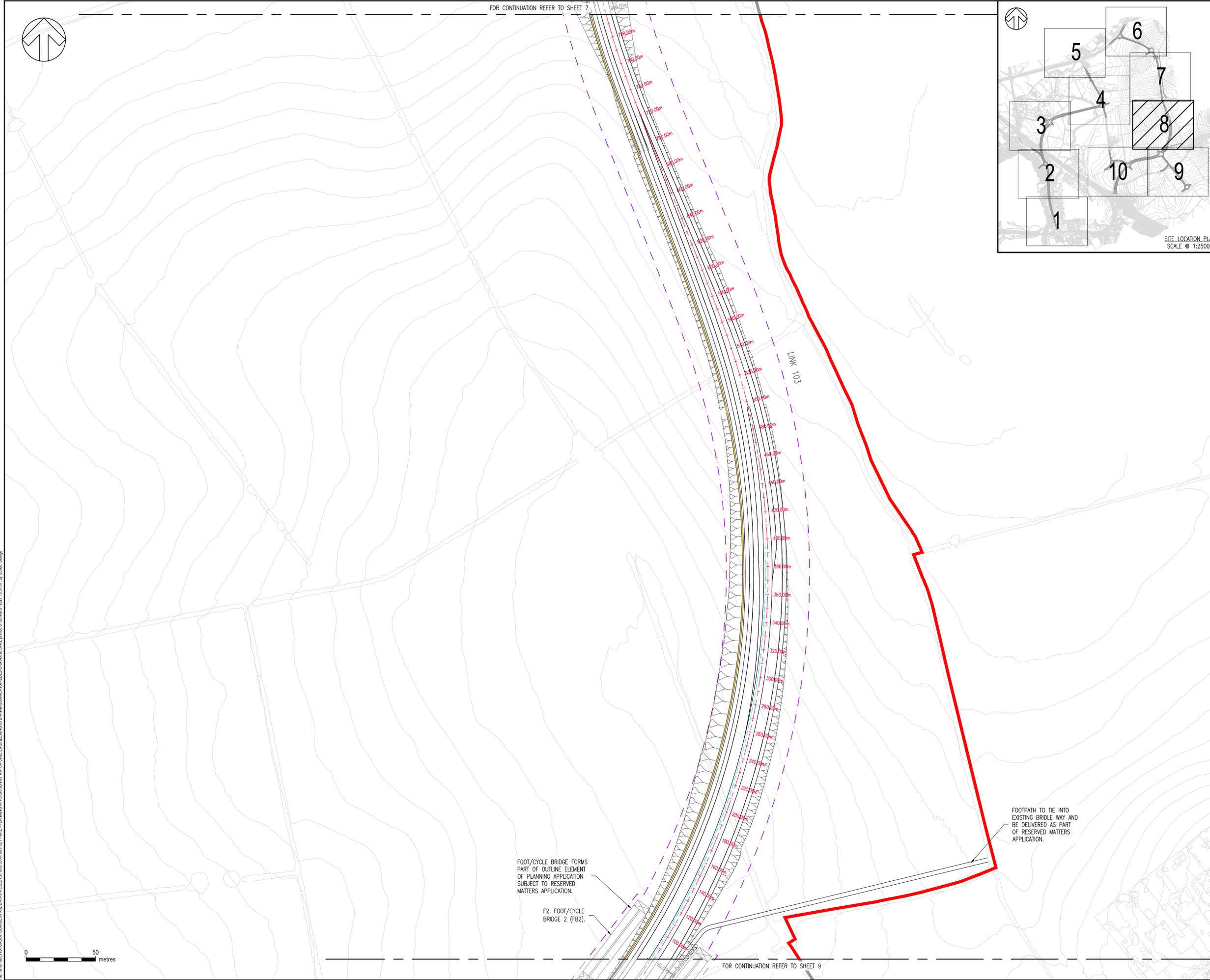
SITE/PROJECT: MILTON KEYNES EAST

TITLE: GENERAL ARRANGEMENT FOR PLANNING SHEET 8

SCALE @ A1: 1:1250	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DRAWN: GLG
		DATE: March 21

DRAWING NO: MKE-WSP-ZZ-ZZ-C-DR-0018 REV: P03

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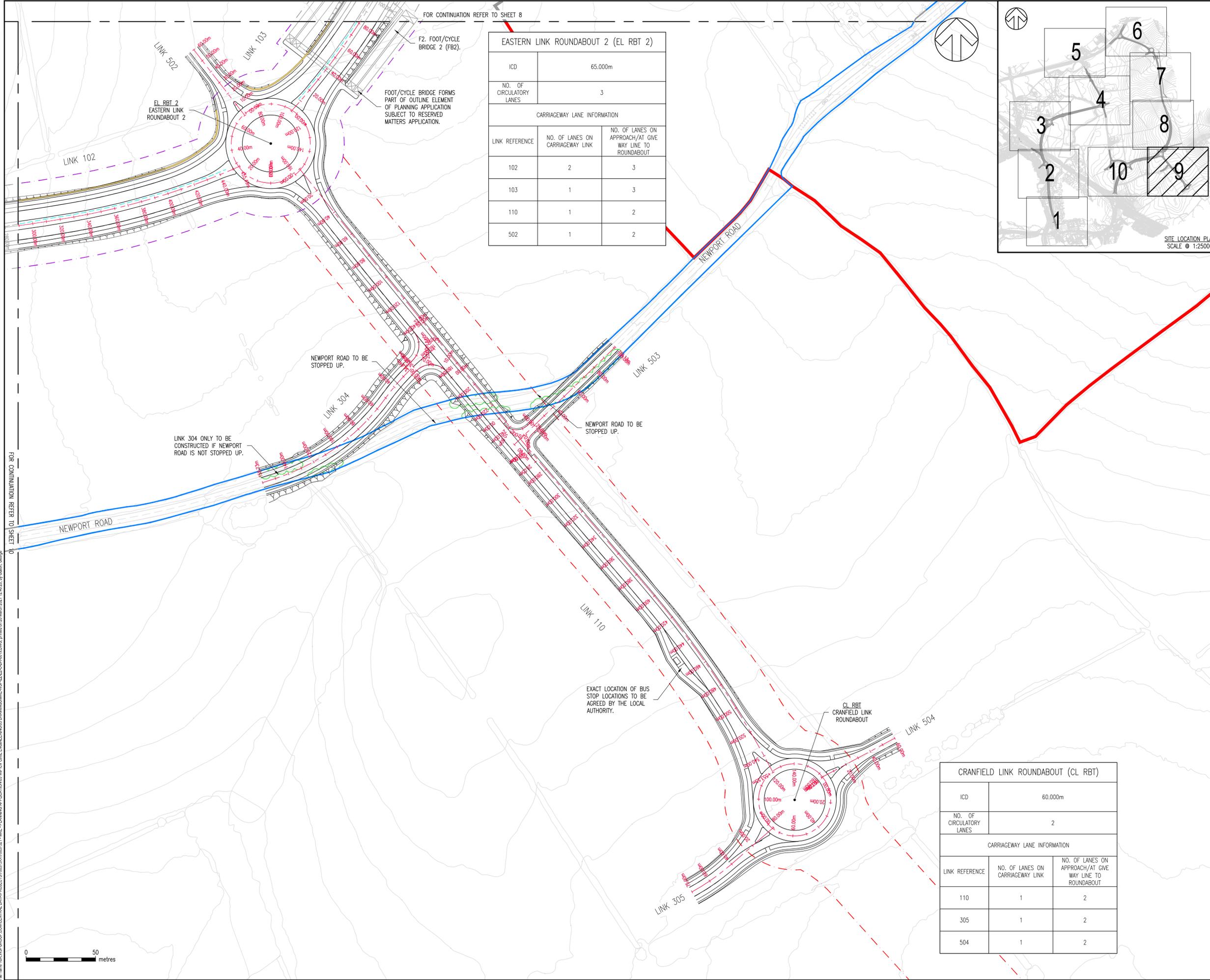
FOOT/CYCLE BRIDGE FORMS PART OF OUTLINE ELEMENT OF PLANNING APPLICATION SUBJECT TO RESERVED MATTERS APPLICATION.

F2. FOOT/CYCLE BRIDGE 2 (FB2).

FOOTPATH TO TIE INTO EXISTING BRIDLE WAY AND BE DELIVERED AS PART OF RESERVED MATTERS APPLICATION.

FOR CONTINUATION REFER TO SHEET 9

File name: \\UK.VSPGROUP.COM\CENTRAL_DATA\PROJECTS\00570057521\MKE-PLANNING_APPLICATIONS\WPCY CIVIL ENGINEERING\DRAWINGS\MKE-WSP-ZZ-ZZ-C-DR-0018.DWG, printed on 28 March 2021 10:51:07 by Galen George

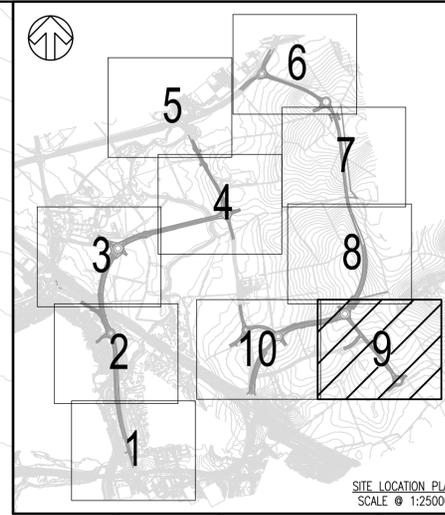


FOR CONTINUATION REFER TO SHEET 8

F2. FOOT/CYCLE BRIDGE 2 (FB2).

FOOT/CYCLE BRIDGE FORMS PART OF OUTLINE ELEMENT OF PLANNING APPLICATION SUBJECT TO RESERVED MATTERS APPLICATION.

EASTERN LINK ROUNDABOUT 2 (EL RBT 2)		
ICD	65.000m	
NO. OF CIRCULATORY LANES	3	
CARRIAGEWAY LANE INFORMATION		
LINK REFERENCE	NO. OF LANES ON CARRIAGEWAY LINK	NO. OF LANES ON APPROACH/AT GIVE WAY LINE TO ROUNDABOUT
102	2	3
103	1	3
110	1	2
502	1	2



- NOTES:
- DRAWINGS ARE PREPARED TO SUPPORT DETAILED ELEMENT OF HYBRID PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
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 - THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
 - THE MILTON KEYNES HIGHWAY BOUNDARY IS TAKEN FROM INTERACTIVE HIGHWAY BOUNDARY MAPPING FOUND ON THE MILTON KEYNES COUNCIL'S WEBSITE.
 - TOPOGRAPHICAL INFORMATION PROVIDED BY MK SURVEYS FILE - "28562" ON THE 11/06/2020 AND 3D ENGINEERING SURVEYS FILE - "DES21007_MKE_REV1" ON THE 22/02/2021. WSP CAN NOT ACCEPT RESPONSIBILITY FOR ANY INACCURACIES.
 - ALL REDWAYS DESIGNED IN ACCORDANCE WITH LTN 2/08.
 - EARTHWORKS SHOWN OUTSIDE THE TRANSPORTATION CORRIDOR SHALL BE REVIEWED DURING DETAILED DESIGN STAGE WITH A VIEW TO EITHER LOCALLY STEEPEN OR ADJUSTING EXISTING GROUND LEVELS SO THAT ALL WORKS ARE LOCATED WITHIN THE CORRIDOR.

- KEY:
- GENERAL
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REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	ARP	SAP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	ARP	SAP
P01	15/01/2021	OPL	FIRST ISSUE	ARP	SAP

DRAWING STATUS: S4 - FOR APPROVAL

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: GENERAL ARRANGEMENT FOR PLANNING SHEET 9

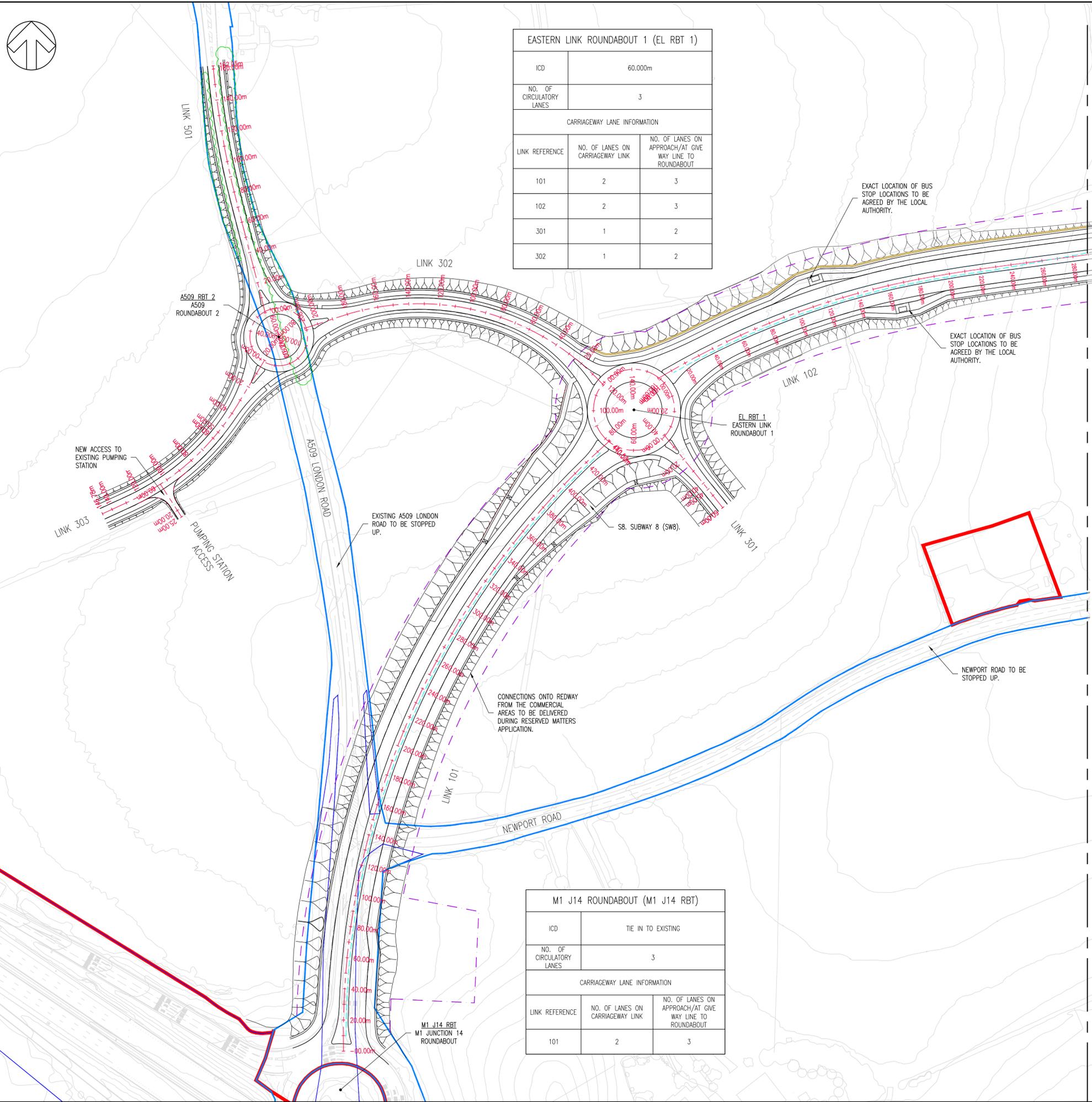
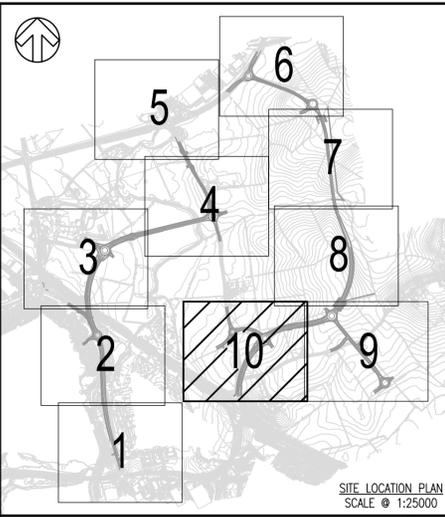
SCALE @ AT:	CHECKED:	APPROVED:	
1:1250	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	January 21

DRAWING NO: MKE-WSP-ZZ-ZZ-C-DR-0019 REV: P03

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File name: \\UK.VSPGROUP.COM\CENTRAL_DATA\PROJECTS\005750070057521_MKE_PLANNING_APPLICATIONS\WSP\CIVIL_ENGINEERING\03_DRAWINGS\MKE_WSP_ZZ_ZZ_C-DR-0019.DWG, printed on 28 March 2021 12:40:20, by Galen George





EASTERN LINK ROUNDABOUT 1 (EL RBT 1)

ICD	60.000m	
NO. OF CIRCULATORY LANES	3	
CARRIAGEWAY LANE INFORMATION		
LINK REFERENCE	NO. OF LANES ON CARRIAGEWAY LINK	NO. OF LANES ON APPROACH/AT GIVE WAY LINE TO ROUNDABOUT
101	2	3
102	2	3
301	1	2
302	1	2

M1 J14 ROUNDABOUT (M1 J14 RBT)

ICD	TIE IN TO EXISTING	
NO. OF CIRCULATORY LANES	3	
CARRIAGEWAY LANE INFORMATION		
LINK REFERENCE	NO. OF LANES ON CARRIAGEWAY LINK	NO. OF LANES ON APPROACH/AT GIVE WAY LINE TO ROUNDABOUT
101	2	3

- NOTES:**
- DRAWINGS ARE PREPARED TO SUPPORT DETAILED ELEMENT OF HYBRID PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
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 - THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
 - THE MILTON KEYNES HIGHWAY MAPPING IS TAKEN FROM INTERACTIVE HIGHWAY BOUNDARY MAPPING FOUND ON THE MILTON KEYNES COUNCIL'S WEBSITE.
 - TOPOGRAPHICAL INFORMATION PROVIDED BY MK SURVEYS FILE - "28562" ON THE 11/06/2020 AND 3D ENGINEERING SURVEYS FILE - "DES21007_MKE_REV1" ON THE 22/02/2021. WSP CAN NOT ACCEPT RESPONSIBILITY FOR ANY INACCURACIES.
 - ALL REDWAYS DESIGNED IN ACCORDANCE WITH LTN 2/08.
 - EARTHWORKS SHOWN OUTSIDE THE TRANSPORTATION CORRIDOR SHALL BE REVIEWED DURING DETAILED DESIGN STAGE WITH A VIEW TO EITHER LOCALLY STEEPEN OR ADJUSTING EXISTING GROUND LEVELS SO THAT ALL WORKS ARE LOCATED WITHIN THE CORRIDOR.

- KEY:**
- GENERAL**
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 - HIGHWAYS ENGLAND HIGHWAY BOUNDARY
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 - PROPOSED NOISE FENCE
 - EXISTING TREES AND VEGETATION WITHIN EXISTING HIGHWAY BOUNDARY IMPACTED BY THE PROPOSED WORKS (OTHER EXISTING TREES OUTSIDE THE EXISTING HIGHWAY BOUNDARY MAY BE AFFECTED AND FORM OF NOISE BARRIER TO BE DETERMINED DURING DETAILED DESIGN)
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PO3	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SAP
PO1	15/01/2021	OPL	FIRST ISSUE	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S4 - FOR APPROVAL**

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wsp.com

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **GENERAL ARRANGEMENT FOR PLANNING SHEET 10**

SCALE @ A1:	1:1250	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	GLG
DRAWING NO:	MKE-WSP-ZZ-ZZ-CR-0020	DATE:	March 21	REV:	P03

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File name: \\UK.VSPGROUP.COM\CENTRAL_DATA\PROJECTS\00530070057521_MKE_PLANNING_APPLICATIONS\WPCO CIVIL ENGINEERING\DRAWINGS\MKE-WSP-ZZ-ZZ-CR-0020.DWG, printed on: 28 March 2021 09:53:08, by: Galen, George

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (34.6m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 101 (LINK A)

60m CORRIDOR WIDTH
TO BE SAFEGUARDED.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

INDICATIVE CARRIAGEWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	40mm	SMA (SMA 14 SURF 40/60)
BINDER COURSE	60mm	HDM (AC20 HDM BIN 40/60)
BASECOURSE	250mm	HDM (AC32 HDM BASE/BIN40/60)
SUB-BASE	150mm	TYPE 1 MATERIAL
CAPPING	450mm	6F2 MATERIAL

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

INDICATIVE REDWAY CONSTRUCTION FOR ALL LINKS

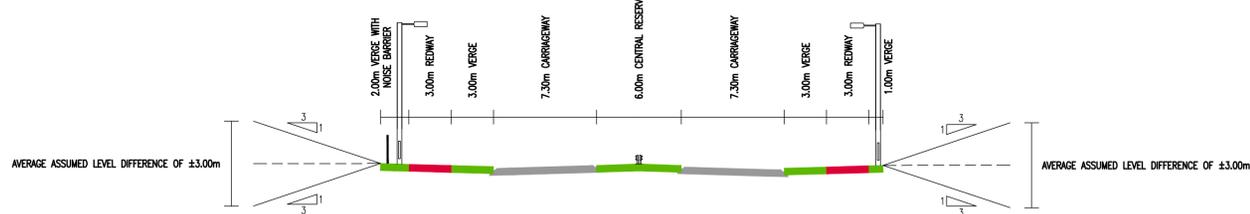
LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	25mm	MACHINE LAID AC6
BINDER COURSE	50mm	AC20 TO CL. 929
BASECOURSE	70mm	AC32 TO CL. 929
SUB-BASE	300mm	TYPE 1 GRANULAR SUB-BASE 803
CAPPING	-	ADDITIONAL SUB-BASE AS REQUIRED

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL DESIGN CRITERIA AND DIMENSIONS ARE SUBJECT TO APPROVAL FROM THE LOCAL AUTHORITY.
3. ALL REDWAY CONSTRUCTION DETAILS HAVE BEEN RECEIVED FROM BERKELEY ST JAMES ON THE 24/07/2020 PLEASE REFER TO DRAWING MKC/1100/005A – REDWAY CONSTRUCTION DETAILS.
4. OUTSIDE VERGES MAY BE WIDENED TO ALLOW FOR SIGNS, SAFETY BARRIER AND NOISE FENCE WHICH WILL BE DETERMINED DURING DETAILED DESIGN.
5. THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
6. LIGHTING TO ROUNDABOUTS TO INCLUDE 10M TO 12M COLUMN HEIGHTS & LIGHTING LEVELS RANGING FROM 20 TO 30 LUX AVERAGE & 0.4 UNIFORMITY.

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (35.6m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



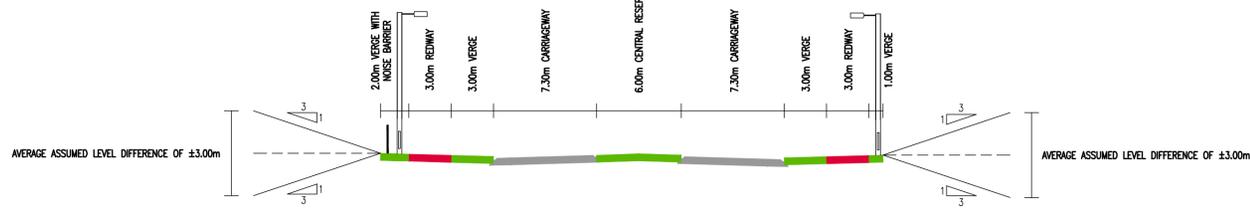
APPLIES TO:
LINK 102 (LINK D)

60m CORRIDOR WIDTH
TO BE SAFEGUARDED.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (35.6m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



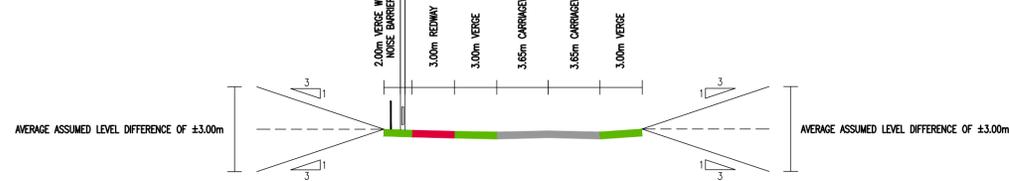
APPLIES TO:
LINK 103 DUAL CARRIAGEWAY SECTION (LINK B)

60m CORRIDOR WIDTH
TO BE SAFEGUARDED.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (18.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 103 SINGLE CARRIAGEWAY SECTION (LINK B)

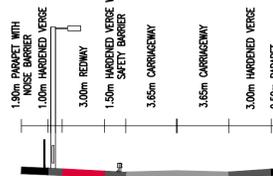
60m CORRIDOR WIDTH
TO BE SAFEGUARDED.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (18.2m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

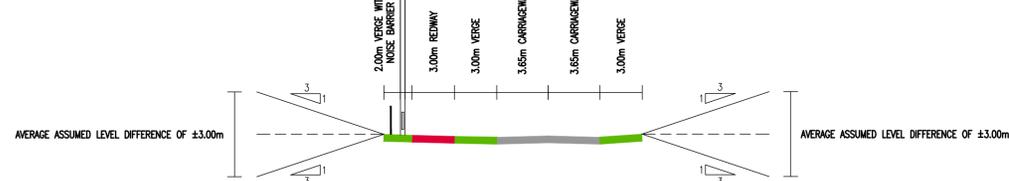


APPLIES TO:
LINK 103 (LINK B) STRUCTURE B4. STREAM BRIDGE (WSB)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (18.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



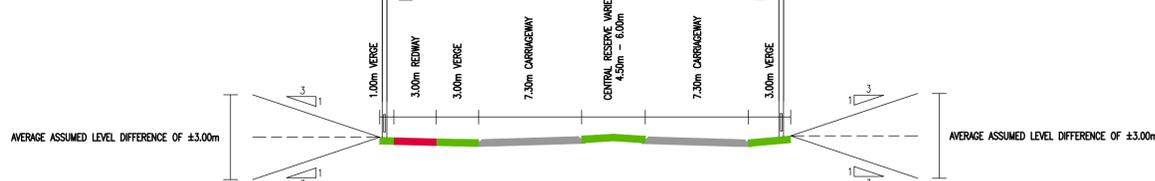
APPLIES TO:
LINK 104 (LINK F)

60m CORRIDOR WIDTH
TO BE SAFEGUARDED.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (VARIES BETWEEN 29.1m – 30.6m EXCLUDING EARTHWORKS)
TONGWELL STREET TRANSITION
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 105 (TONGWELL STREET)

TRANSITION IN ADVANCE OF PROPOSED AND EXISTING BRIDGE STRUCTURES FROM PINEHAM ROUNDABOUT

CORRIDOR WIDTH ALONG TONGWELL STREET TO BE CONFIRMED.

CROSS-SECTIONAL WIDTH IN ADVANCE AND OVER THE PROPOSED RIVER OUZEL BRIDGE STRUCTURE VARIES.

LIGHTING (INDICATIVE DETAILS)

- 10m – 12m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT
- LIGHTING CLASS M2 (EQUIVALENT 20 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

REV	DATE	BY	DESCRIPTION	CHK	APP
P04	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SAP
P03	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SAP
P02	14/01/2021	GLG	SECTIONS UPDATED FOLLOWING COMMENTS FROM MKC	A.P.	SAP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SAP

DRAWING STATUS: SI - [] OR [] PPRO [] []

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

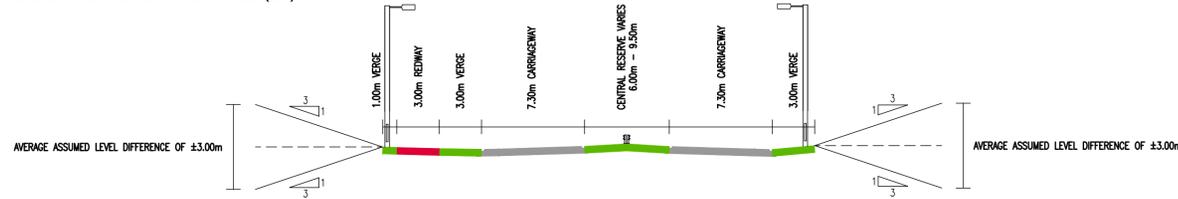
TITLE: GEOMETRY DETAILS OF INDICATIVE ROAD CROSS SECTIONS SHEET 1 OF 4

SCALE @ AT:	CHECKED:	APPROVED:	
1:250	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	GLG	GLG	March 21

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-0101 REV: P04

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ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (VARIES BETWEEN 30.6m – 34.1m EXCLUDING EARTHWORKS)
TONGWELL STREET TRANSITION
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 105 (TONGWELL STREET)
TRANSITION IN ADVANCE OF PROPOSED AND EXISTING BRIDGE STRUCTURES
LIGHTING (INDICATIVE DETAILS)
• 10m – 12m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT
• LIGHTING CLASS M2 (EQUIVALENT 20 LUX AVERAGE & 0.4 UNIFORMITY)
• LUMINAIRE HOLOPHANE V-MAX 3000K LED
• LUMINAIRE 0° TILT – NO DIRECT UPWARD LIGHT

INDICATIVE CARRIAGEWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	40mm	SMA (SMA 14 SURF 40/60)
BINDER COURSE	60mm	HDM (AC20 HDM BIN 40/60)
BASECOURSE	250mm	HDM (AC32 HDM BASE/BIN40/60)
SUB-BASE	150mm	TYPE 1 MATERIAL
CAPPING	450mm	6F2 MATERIAL

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

INDICATIVE REDWAY CONSTRUCTION FOR ALL LINKS

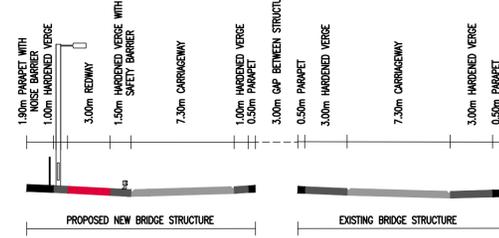
LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	25mm	MACHINE LAID AC6
BINDER COURSE	50mm	AC20 TO CL. 929
BASECOURSE	70mm	AC32 TO CL. 929
SUB-BASE	300mm	TYPE 1 GRANULAR SUB-BASE 803
CAPPING	-	ADDITIONAL SUB-BASE AS REQUIRED

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

NOTES:

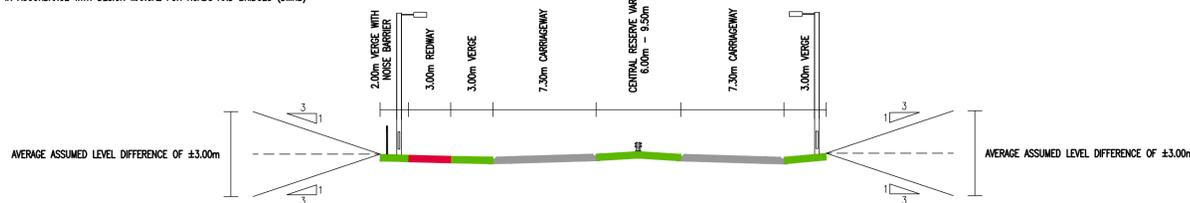
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- ALL DESIGN CRITERIA AND DIMENSIONS ARE SUBJECT TO APPROVAL FROM THE LOCAL AUTHORITY.
- ALL REDWAY CONSTRUCTION DETAILS HAVE BEEN RECEIVED FROM BERKELEY ST JAMES ON THE 24/07/2020 PLEASE REFER TO DRAWING MKC/1100/005A – REDWAY CONSTRUCTION DETAILS.
- OUTSIDE VERGES MAY BE WIDENED TO ALLOW FOR SIGNS, SAFETY BARRIER AND NOISE FENCE WHICH WILL BE DETERMINED DURING DETAILED DESIGN.
- THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
- LIGHTING TO ROUNDABOUTS TO INCLUDE 10M TO 12M COLUMN HEIGHTS & LIGHTING LEVELS RANGING FROM 20 TO 30 LUX AVERAGE & 0.4 UNIFORMITY.

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (16.2m PROPOSED BRIDGE WIDTH)
EXISTING AND PROPOSED NEW BRIDGE STRUCTURES ACROSS TONGWELL STREET
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



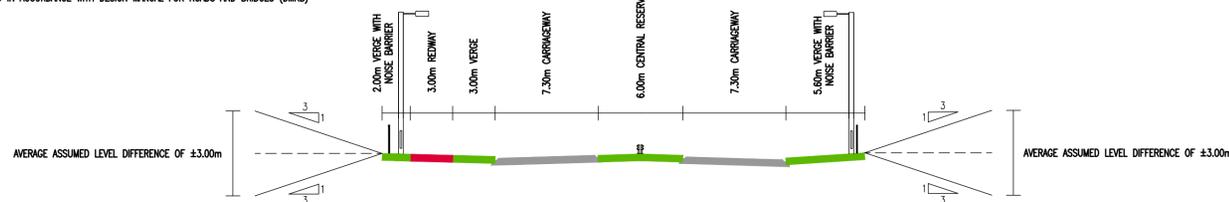
APPLIES TO:
LINK 105 STRUCTURE B1 (TONGWELL STREET NORTHBOUND)
TRANSITION IN ADVANCE OF PROPOSED AND EXISTING BRIDGE STRUCTURES
NOISE BARRIER HEIGHT TO BE DETERMINED DURING DETAILED DESIGN
LIGHTING (INDICATIVE DETAILS)
• 10m – 12m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT
• LIGHTING CLASS M2 (EQUIVALENT 20 LUX AVERAGE & 0.4 UNIFORMITY)
• LUMINAIRE HOLOPHANE V-MAX 3000K LED
• LUMINAIRE 0° TILT – NO DIRECT UPWARD LIGHT
• RETENTION OF EXISTING BRIDGE STRUCTURE LIGHTING TO BE REVIEWED.

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (VARIES BETWEEN 31.6m – 35.1m EXCLUDING EARTHWORKS)
TONGWELL STREET TRANSITION
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 105 (TONGWELL STREET)
TRANSITION IN ADVANCE OF PROPOSED AND EXISTING BRIDGE STRUCTURES
LIGHTING (INDICATIVE DETAILS)
• 10m – 12m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT
• LIGHTING CLASS M2 (EQUIVALENT 20 LUX AVERAGE & 0.4 UNIFORMITY)
• LUMINAIRE HOLOPHANE V-MAX 3000K LED
• LUMINAIRE 0° TILT – NO DIRECT UPWARD LIGHT

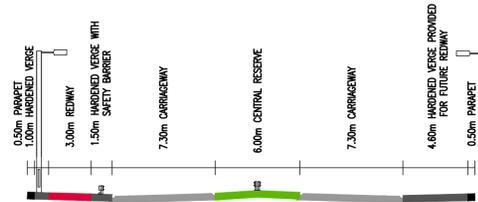
ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (34.2m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 106 (LINK T)
LIGHTING (INDICATIVE DETAILS)
• 10m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT
• LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
• LUMINAIRE HOLOPHANE V-MAX 3000K LED
• LUMINAIRE 0° TILT – NO DIRECT UPWARD LIGHT

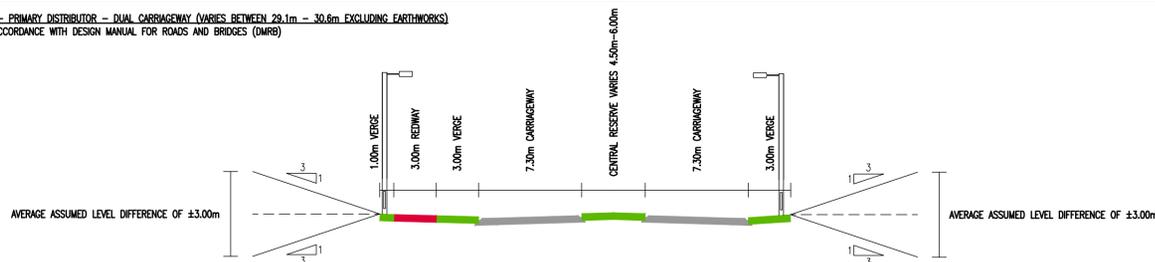
UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (31.7m)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



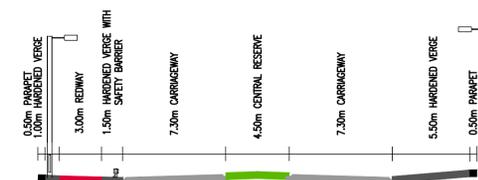
APPLIES TO:
LINK 106 (LINK T) STRUCTURE B2 M1 MILTON KEYNES EAST BRIDGE (M18)
LIGHTING (INDICATIVE DETAILS)
• 10m LIGHTING COLUMN HEIGHTS – OPPOSITE ARRANGEMENT
• LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
• LUMINAIRE HOLOPHANE V-MAX 3000K LED
• LUMINAIRE 0° TILT – NO DIRECT UPWARD LIGHT
• LIGHTING TO BE LOCATED OUTSIDE OF PARAPET WHERE NOT PROTECTED BY SAFETY BARRIER (FIXING DETAIL TO BE CONFIRMED)

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (VARIES BETWEEN 29.1m – 30.6m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 107 (LINK U)
LIGHTING (INDICATIVE DETAILS)
• 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
• LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
• LUMINAIRE HOLOPHANE V-MAX 3000K LED
• LUMINAIRE 0° TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (31.1m)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 107 (LINK U) STRUCTURE B3 RIVER OUZEL FLOODPLAIN BRIDGE
NO CORRIDOR WIDTH SAFEGUARDED DUE TO BRIDGE EARTHWORKS AND VIADUCT STRUCTURES. THEREFORE, ONLY THE PHYSICAL INFRASTRUCTURE SHOWN IN THE SECTION TO BE PROVIDED.
LIGHTING (INDICATIVE DETAILS)
• 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
• LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
• LUMINAIRE HOLOPHANE V-MAX 3000K LED
• LUMINAIRE 0° TILT – NO DIRECT UPWARD LIGHT
• LIGHTING TO BE LOCATED OUTSIDE OF PARAPET WHERE NOT PROTECTED BY SAFETY BARRIER (FIXING DETAIL TO BE CONFIRMED)

REV	DATE	BY	DESCRIPTION	CHK	APP
P04	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SAP
P03	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SAP
P02	14/01/2021	OPL	SECTIONS UPDATED FOLLOWING COMMENTS FROM MKC	A.P.	SAP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SAP

DRAWING STATUS: SI OR PPRO

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

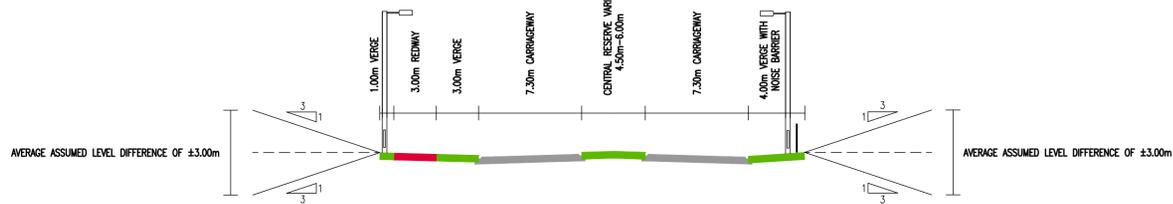
TITLE: GEOMETRY DETAILS OF INDICATIVE ROAD CROSS SECTIONS SHEET 2 OF 4

SCALE @ A1:	CHECKED:	APPROVED:	
1:250	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	GLG	GLG	March 21

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-0102 REV: P04

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ROAD TYPE 1 – PRIMARY DISTRIBUTOR – DUAL CARRIAGEWAY (VARIES BETWEEN 30.1m – 31.6m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 107 (LINK U)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - ALL DESIGN CRITERIA AND DIMENSIONS ARE SUBJECT TO APPROVAL FROM THE LOCAL AUTHORITY.
 - ALL REDWAY CONSTRUCTION DETAILS HAVE BEEN RECEIVED FROM BERKELEY ST JAMES ON THE 24/07/2020 PLEASE REFER TO DRAWING MKC/1100/005A – REDWAY CONSTRUCTION DETAILS.
 - OUTSIDE VERGES MAY BE WIDENED TO ALLOW FOR SIGNS, SAFETY BARRIER AND NOISE FENCE WHICH WILL BE DETERMINED DURING DETAILED DESIGN.
 - THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
 - LIGHTING TO ROUNDABOUTS TO INCLUDE 10M TO 12M COLUMN HEIGHTS & LIGHTING LEVELS RANGING FROM 20 TO 30 LUX AVERAGE & 0.4 UNIFORMITY.

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (15.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

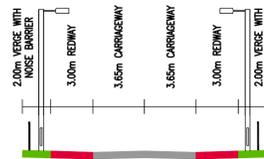


APPLIES TO:
LINK 108 (EXISTING A509)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LINK 108 LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LINK 110 LIGHTING CLASS M4 (EQUIVALENT 10 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (17.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



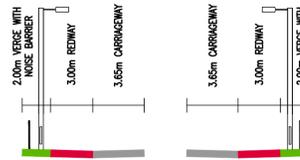
APPLIES TO:
LINK 108 (EXISTING A509)

NOISE FENCE BOTH SIDES.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (NOISE FENCE EITHER LEFT OR RIGHT)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 108 (EXISTING A509)

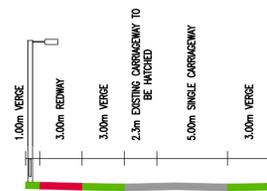
NOISE FENCE EITHER LEFT OR RIGHT.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (17.3m)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

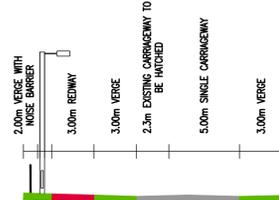


APPLIES TO:
LINK 109 (EXISTING TONGWELL STREET)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (18.3m)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)

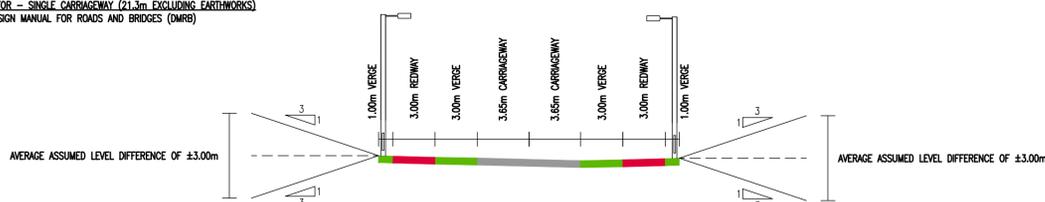


APPLIES TO:
LINK 109 (EXISTING TONGWELL STREET)

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – SINGLE-SIDED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

ROAD TYPE 1 – PRIMARY DISTRIBUTOR – SINGLE CARRIAGEWAY (21.3m EXCLUDING EARTHWORKS)
DESIGNED IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)



APPLIES TO:
LINK 110 (LINK B1)

40m CORRIDOR WIDTH TO BE SAFEGUARDED FOR LINK 110 ONLY TO ALLOW FOR DUALING IN THE FUTURE.

LIGHTING (INDICATIVE DETAILS)

- 10m LIGHTING COLUMN HEIGHTS – OPPOSITE OR STAGGERED ARRANGEMENT (8m HEIGHTS TO BE CONSIDERED WHERE APPROPRIATE)
- LINK 108 LIGHTING CLASS M3 (EQUIVALENT 15 LUX AVERAGE & 0.4 UNIFORMITY)
- LINK 110 LIGHTING CLASS M4 (EQUIVALENT 10 LUX AVERAGE & 0.4 UNIFORMITY)
- LUMINAIRE HOLOPHANE V-MAX 3000K LED
- LUMINAIRE σ TILT – NO DIRECT UPWARD LIGHT

INDICATIVE CARRIAGEWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	40mm	SMA (SMA 14 SURF 40/60)
BINDER COURSE	60mm	HDM (AC20 HDM BIN 40/60)
BASECOURSE	250mm	HDM (AC32 HDM BASE/BIN40/60)
SUB-BASE	150mm	TYPE 1 MATERIAL
CAPPING	450mm	6F2 MATERIAL

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

INDICATIVE REDWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	25mm	MACHINE LAID AC6
BINDER COURSE	50mm	AC20 TO CL. 929
BASECOURSE	70mm	AC32 TO CL. 929
SUB-BASE	300mm	TYPE 1 GRANULAR SUB-BASE 803
CAPPING	-	ADDITIONAL SUB-BASE AS REQUIRED

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	A.P.
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPRO [] []

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wsp.com

CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

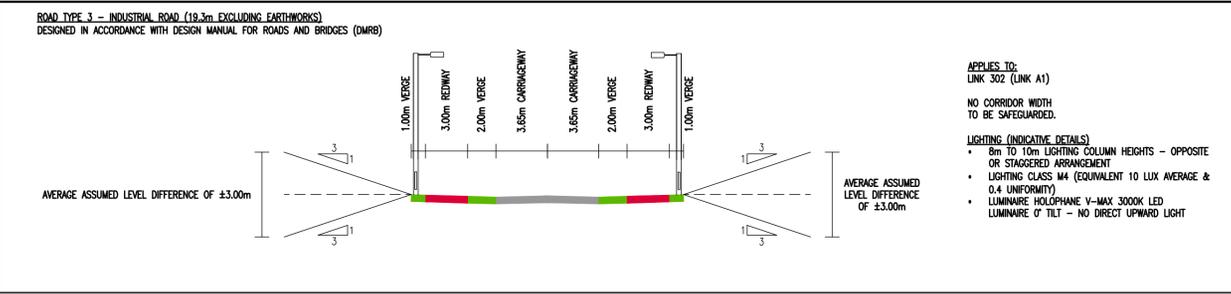
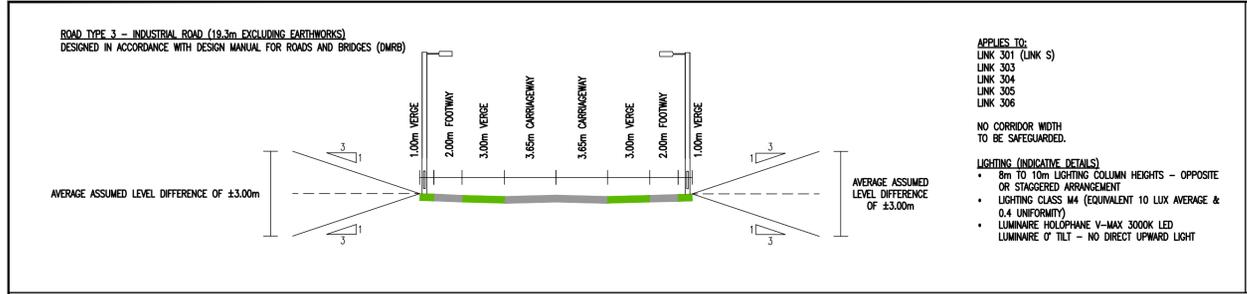
TITLE: GEOMETRY DETAILS OF INDICATIVE ROAD CROSS SECTIONS SHEET 3 OF 4

SCALE @ A1:	CHECKED:	APPROVED:
1:250	ARP	SAP
PROJECT NO:	DESIGNED:	DATE:
70057521	GLG	March 21

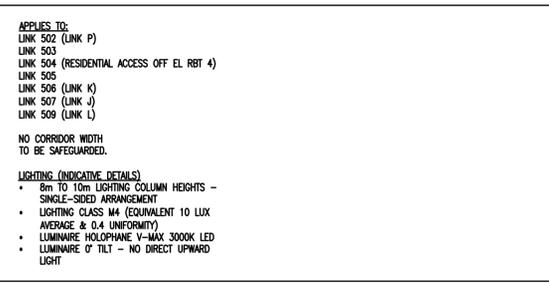
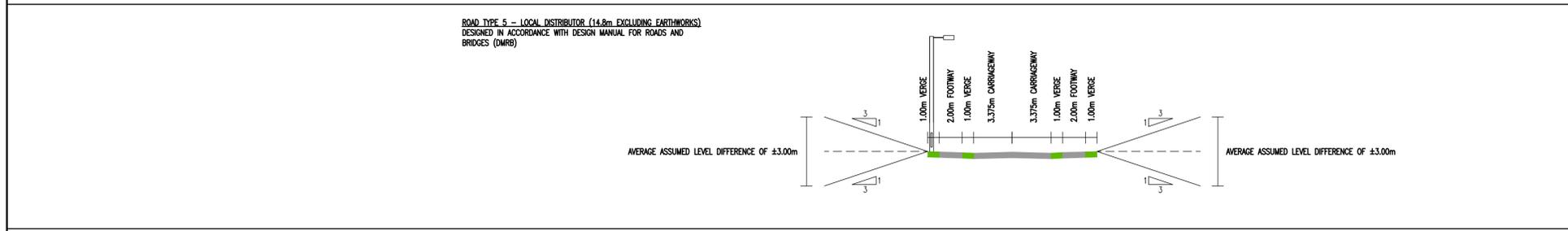
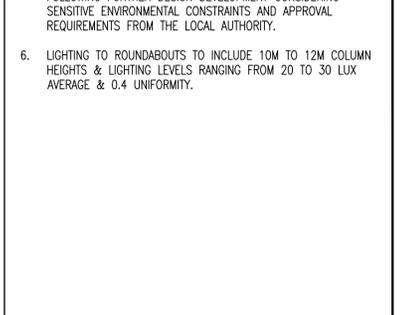
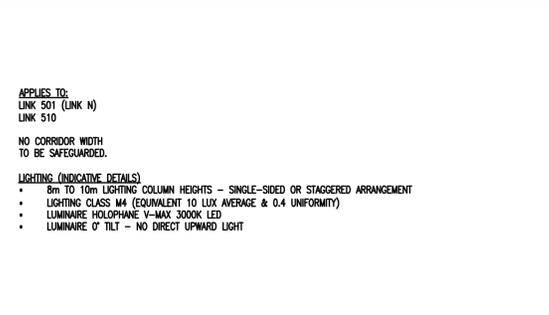
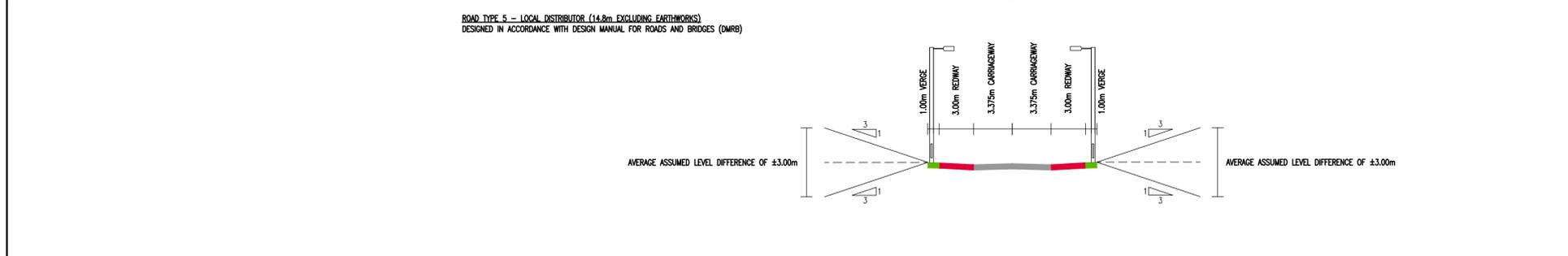
DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-0103 REV: P02

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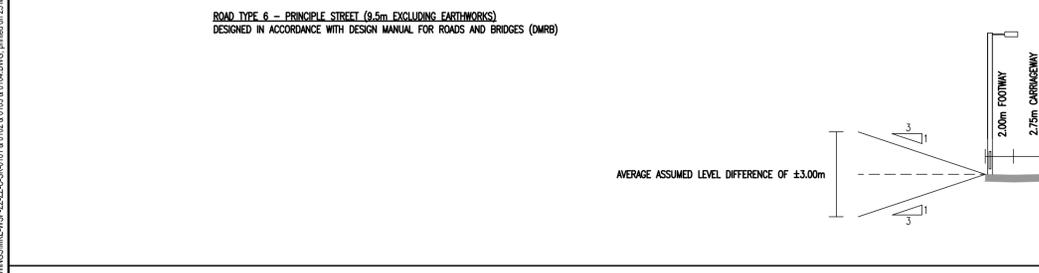
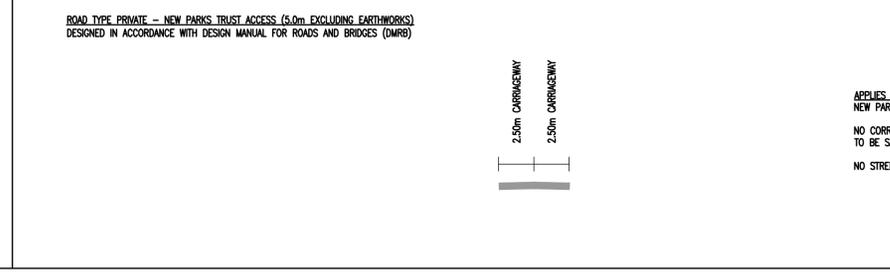
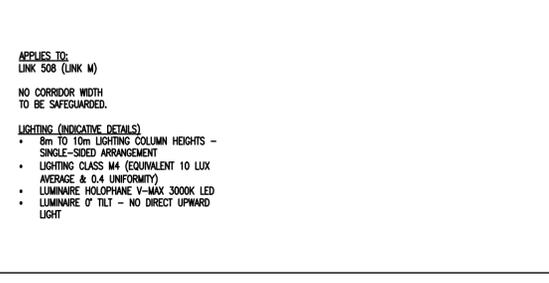
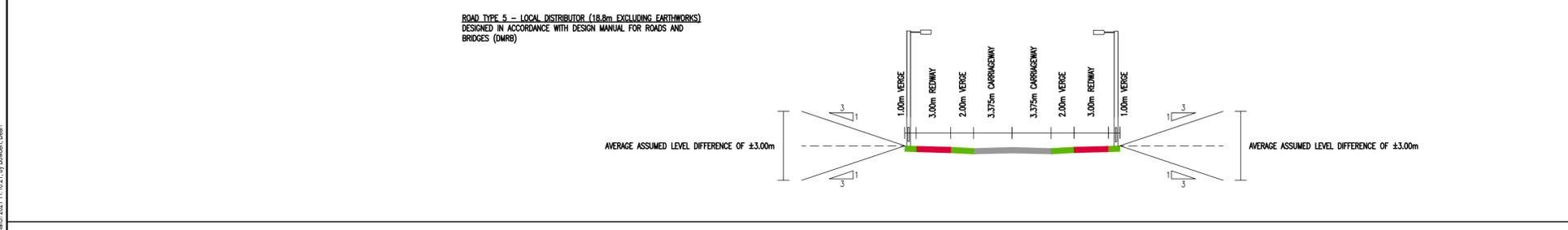
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- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - ALL DESIGN CRITERIA AND DIMENSIONS ARE SUBJECT TO APPROVAL FROM THE LOCAL AUTHORITY.
 - ALL REDWAY CONSTRUCTION DETAILS HAVE BEEN RECEIVED FROM BERKELEY ST JAMES ON THE 24/07/2020 PLEASE REFER TO DRAWING MKC/1100/005A – REDWAY CONSTRUCTION DETAILS.
 - OUTSIDE VERGES MAY BE WIDENED TO ALLOW FOR SIGNS, SAFETY BARRIER AND NOISE FENCE WHICH WILL BE DETERMINED DURING DETAILED DESIGN.
 - THE LIGHTING PROPOSALS SHOWN ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
 - LIGHTING TO ROUNDABOUTS TO INCLUDE 10M TO 12M COLUMN HEIGHTS & LIGHTING LEVELS RANGING FROM 20 TO 30 LUX AVERAGE & 0.4 UNIFORMITY.



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK



INDICATIVE CARRIAGEWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	40mm	SMA (SMA 14 SURF 40/60)
BINDER COURSE	60mm	HDM (AC20 HDM BIN 40/60)
BASECOURSE	250mm	HDM (AC32 HDM BASE/BIN40/60)
SUB-BASE	150mm	TYPE 1 MATERIAL
CAPPING	450mm	6F2 MATERIAL

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

INDICATIVE REDWAY CONSTRUCTION FOR ALL LINKS

LAYER	THICKNESS	DESCRIPTION
SURFACE COURSE	25mm	MACHINE LAID AC6
BINDER COURSE	50mm	AC20 TO CL. 929
BASECOURSE	70mm	AC32 TO CL. 929
SUB-BASE	300mm	TYPE 1 GRANULAR SUB-BASE 803
CAPPING	-	ADDITIONAL SUB-BASE AS REQUIRED

* NOTE: BASED ON AN ASSUMED CBR VALUE OF 2% – SUBJECT TO DETAILED DESIGN AND APPROVAL FROM THE LOCAL AUTHORITY.

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **SI - I OR P PPO**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

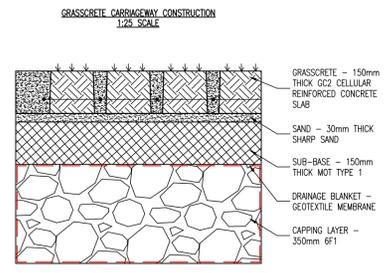
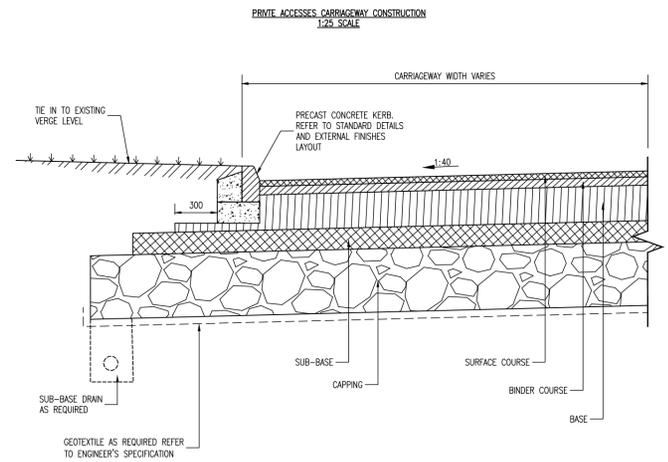
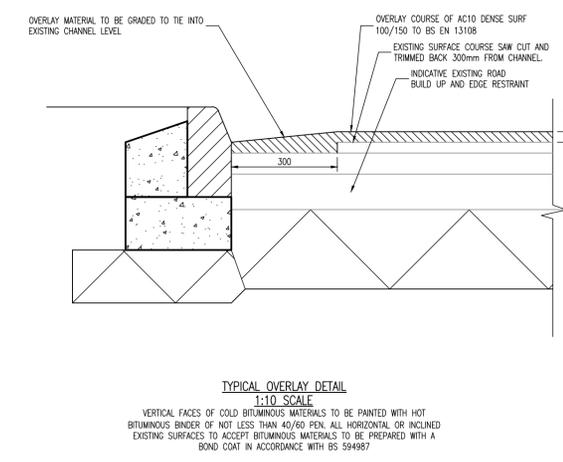
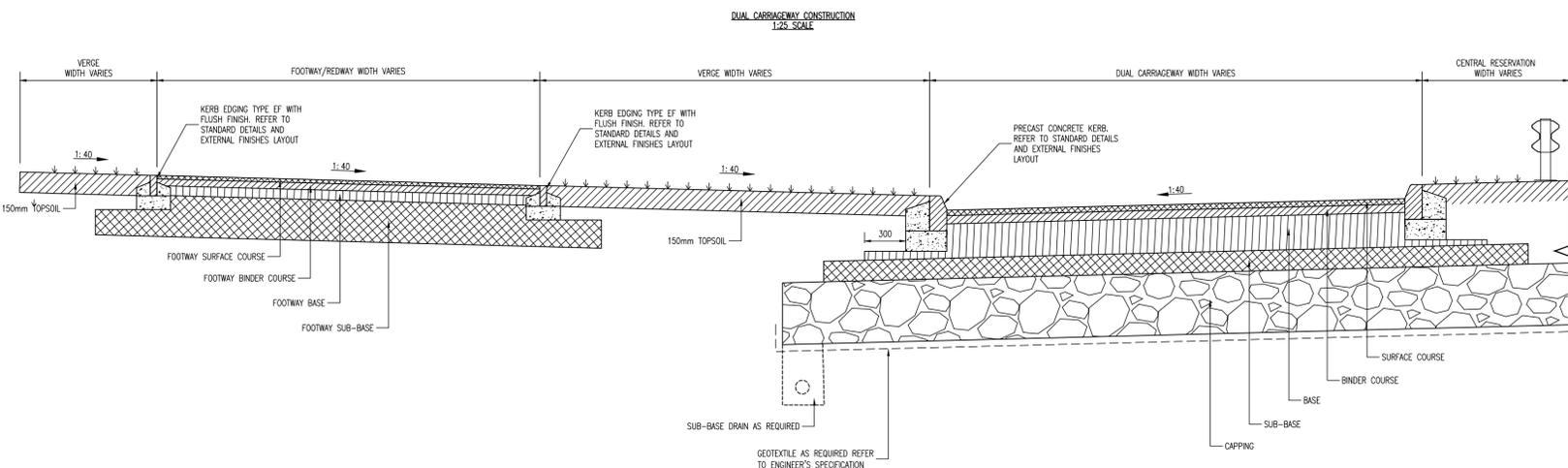
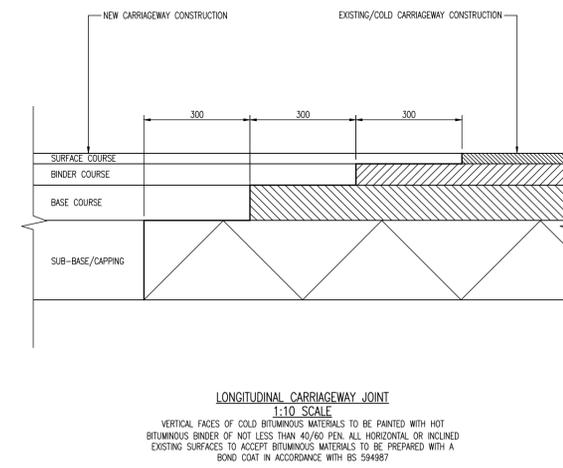
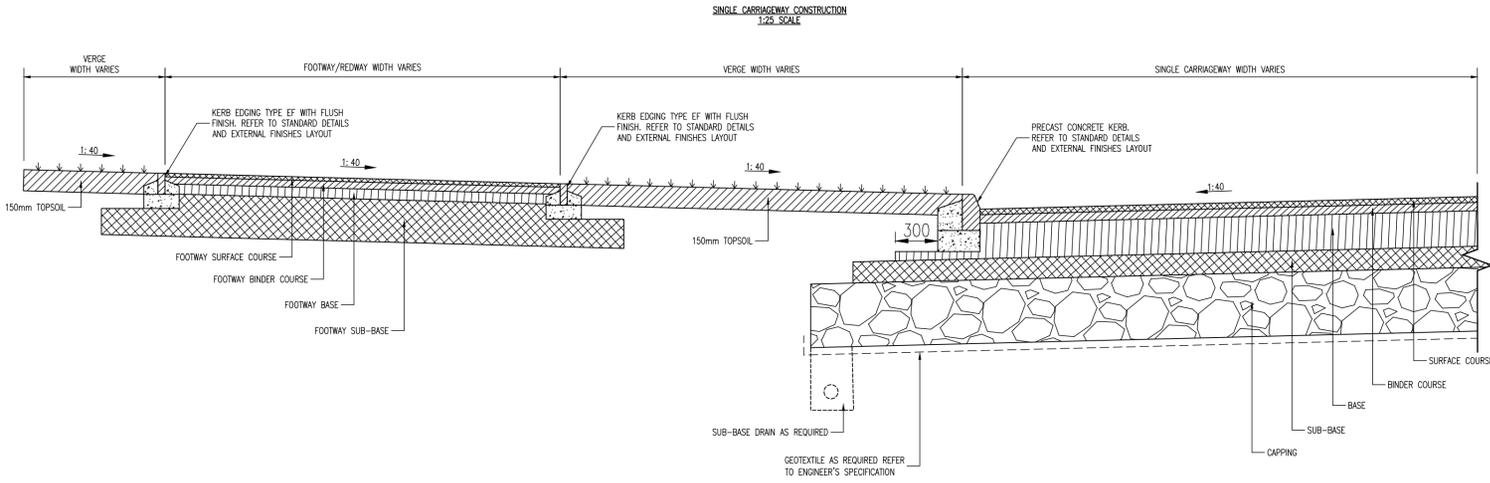
SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **GEOMETRY DETAILS OF INDICATIVE ROAD CROSS SECTIONS SHEET 4 OF 4**

SCALE @ A1:	1:250	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	GLG	DRAWN:	GLG
		DATE:	March 21		

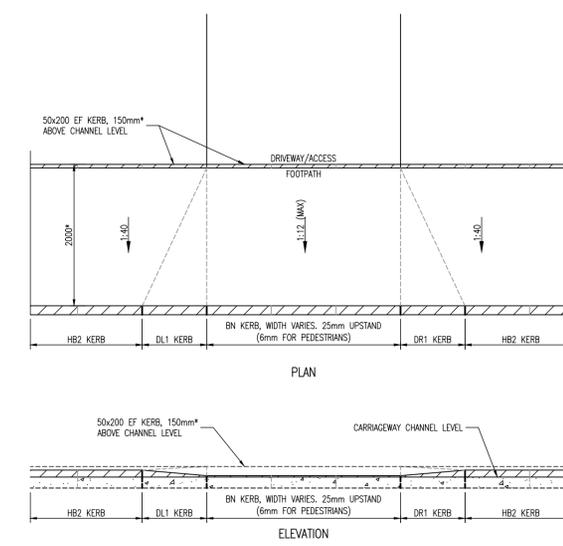
DRAWING NO: **MKE-WSP-ZZ-ZZ-C-SK-0104** REV: **P02**

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CARRIAGEWAY CONSTRUCTION					
LAYER	CLAUSE	MATERIAL	BINDER	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	ETT	SMA (SMA 14 SURF 40/60)	/ PEN	40mm	N/A
BINDER COURSE	ETT	HDM (AC20 HDM BIN 40/60)	/ PEN	60mm	N/A
BASE COURSE	ETT	HDM (AC32 HDM BASE/BIN40/60)	/ PEN	250mm	N/A
SUB-BASE	ETT	TYPE 1 MATERIAL	N/A	150mm	N/A
GEOTEXTILE MEMBRANE	ETT	6F2 MATERIAL	N/A	450mm	N/A

VERGE SPECIFICATION	
TOPSOIL CLASS SA OR SB TO CL.618. GROUND PREPARATION IN ACCORDANCE WITH CL.3004 SUB CLAUSES 8-11. SEEDING/TURFING TO CL.3005. SEED MIX FOR SEEDING OR TURFING TO BE APPROVED BY THE ENGINEER.	



FOOTWAY & FOOTWAY/CYCLEWAY CONSTRUCTION					
LAYER	CLAUSE	MATERIAL	BINDER	THICKNESS	SPECIAL REQUIREMENTS
SURFACE COURSE	-	AC6	-	25mm	MACHINE LAD
BINDER COURSE	929	AC20	-	50mm	-
BASE	929	AC32	N/A	70mm	-
SUB-BASE	-	TYPE 1 GRANULAR	N/A	300mm	SUB-BASE 803
CAPPING	-	-	-	-	ADDITIONAL SUB-BASE AS REQUIRED

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - ALL DESIGN CRITERIA AND DIMENSIONS ARE SUBJECT TO APPROVAL FROM THE LOCAL AUTHORITY.
 - ALL CLAUSES REFER TO THE SPECIFICATION FOR HIGHWAY WORKS.
 - INSTALLATION OF TREE ROOT PROTECTION SYSTEMS TO BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 - MACHINE TRAFFICKING OF CONSTRUCTION TO BE MINIMISED. EACH LAYER OF SURFACE AND BINDER COURSES TO BE LAD IN A SINGLE PASS.
 - ALL REDWAY CONSTRUCTION DETAILS HAVE BEEN RECEIVED FROM BERKELEY ST JAMES ON THE 24/07/2020 PLEASE REFER TO DRAWING MKE/1100/005A - REDWAY CONSTRUCTION DETAILS.
 - OUTSIDE VERGES MAY BE WIDENED TO ALLOW FOR SONS, SAFETY BARRIER AND NOISE FENCE WHICH WILL BE DETERMINED DURING DETAILED DESIGN.
 - LIGHTING PROPOSALS ARE SUBJECT TO CHANGE FOLLOWING FURTHER DESIGN DEVELOPMENT CONSIDERING SENSITIVE ENVIRONMENTAL CONSTRAINTS AND APPROVAL REQUIREMENTS FROM THE LOCAL AUTHORITY.
 - LIGHTING TO ROUNDABOUTS TO INCLUDE 10M TO 12M COLUMN HEIGHTS & LIGHTING LEVELS RANGING FROM 20 TO 30 LUX AVERAGE & 0.4 UNIFORMITY.

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	A.P. <td>SWP</td>	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **SI - () OR PPRO ()**

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **CARRIAGEWAY CONSTRUCTION DETAILS**

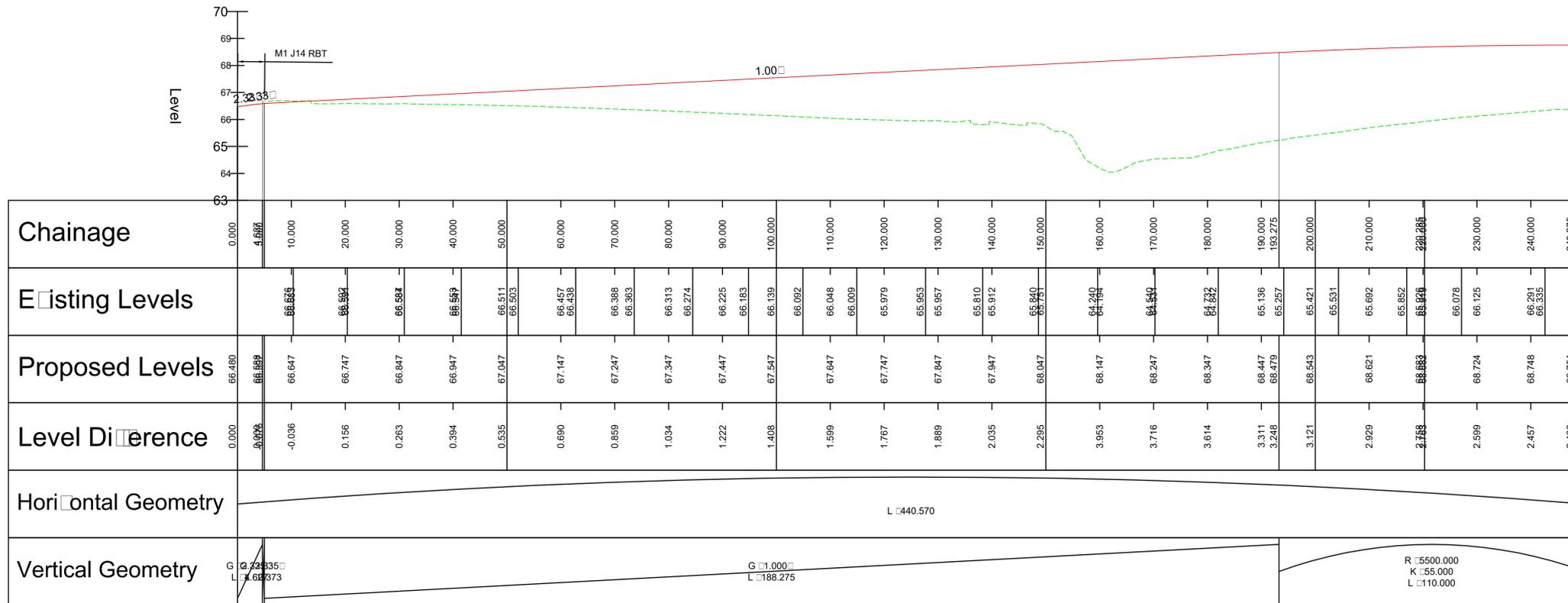
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AS SHOWN	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	GLG	GLG	March 21

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-0105	PO2

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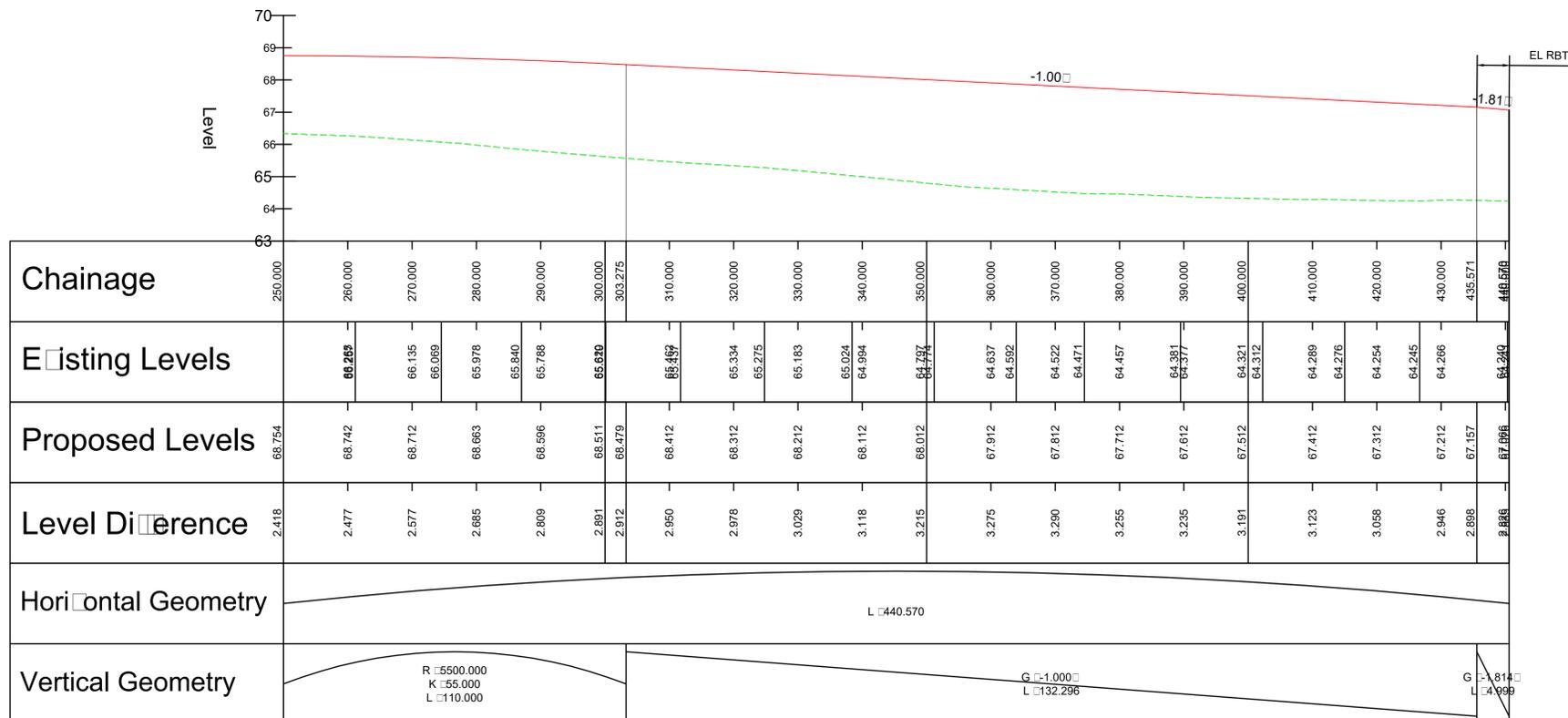
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KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY

LINK 101 - LONGSECTION - CH 250.000M - CH 440.570M
SCALE: H 1:500,V 1:100. DATUM: 63.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	DE	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: **SI - [] OR [] PPRO [] []**

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wsp.com

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 101 LONG SECTION
CH 000.000m - CH 440.570m**

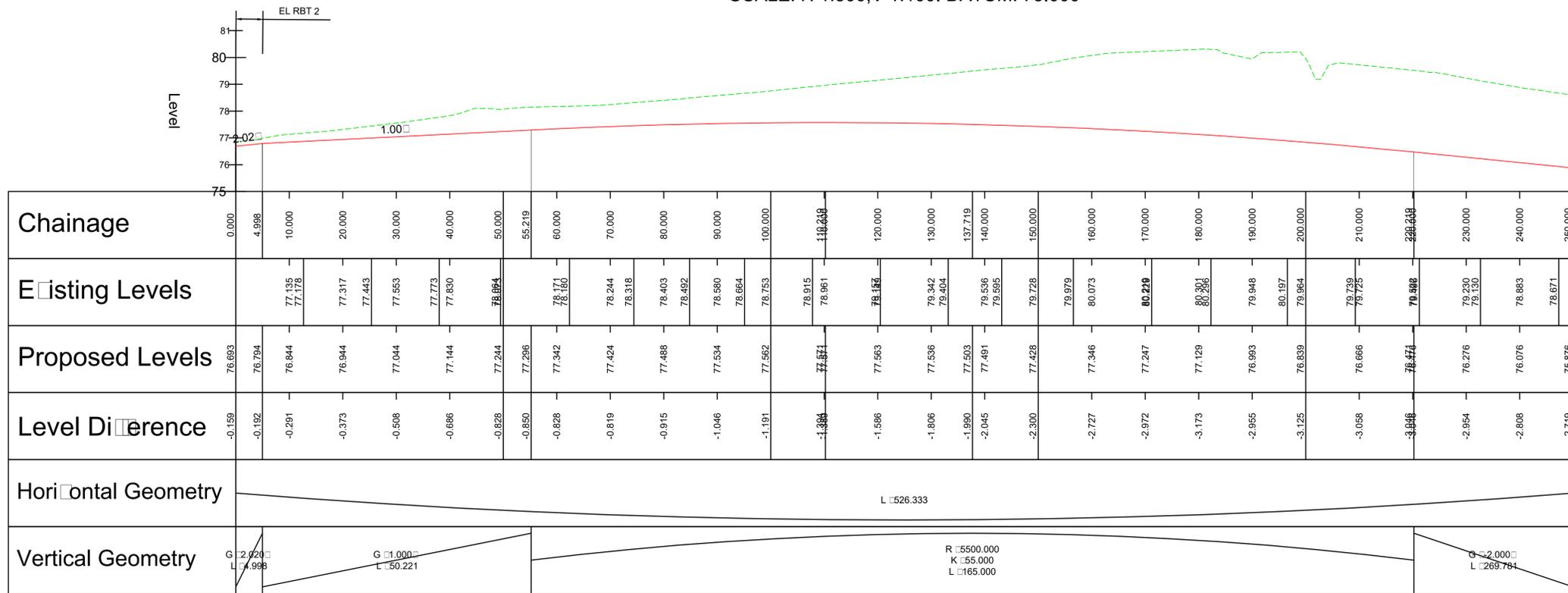
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PROJECT NO: 70057521 | DESIGNED: ARP | DRAWN: GLG | DATE: November 20

DRAWING NO: **MKE-WSP-ZZ-ZZ-C-SK-2801** | REV: **P03**

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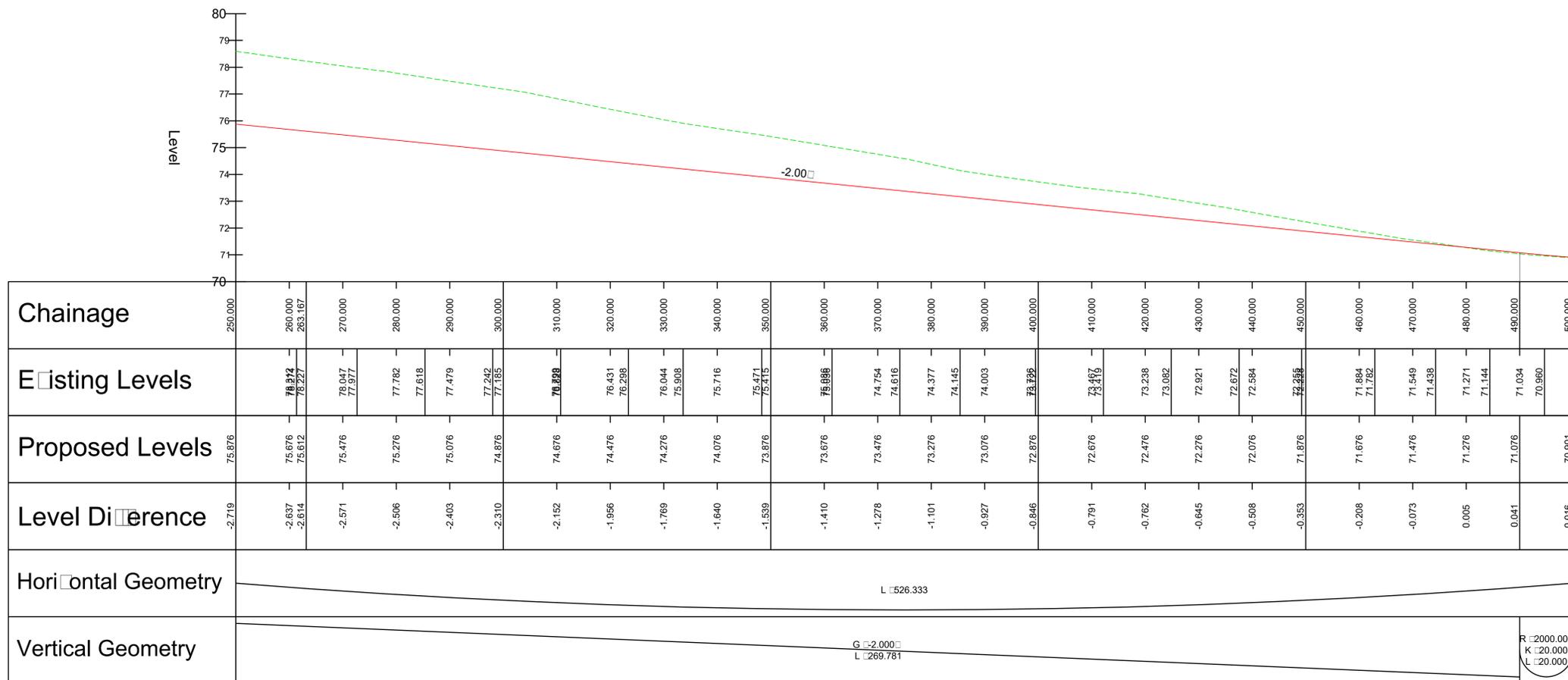
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KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY

LINK 103 - LONGSECTION - CH 250.000M - CH 500.000M
SCALE: H 1:500,V 1:100. DATUM: 70.000



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REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P	SWP
P01	20/11/2020	DE	FIRST ISSUE	A.P	SWP

DRAWING STATUS: **SI - [] OR [] PPRO [] []**

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 103 LONG SECTION
CH 000.000m - CH 500.000m
SHEET 1 OF 3**

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

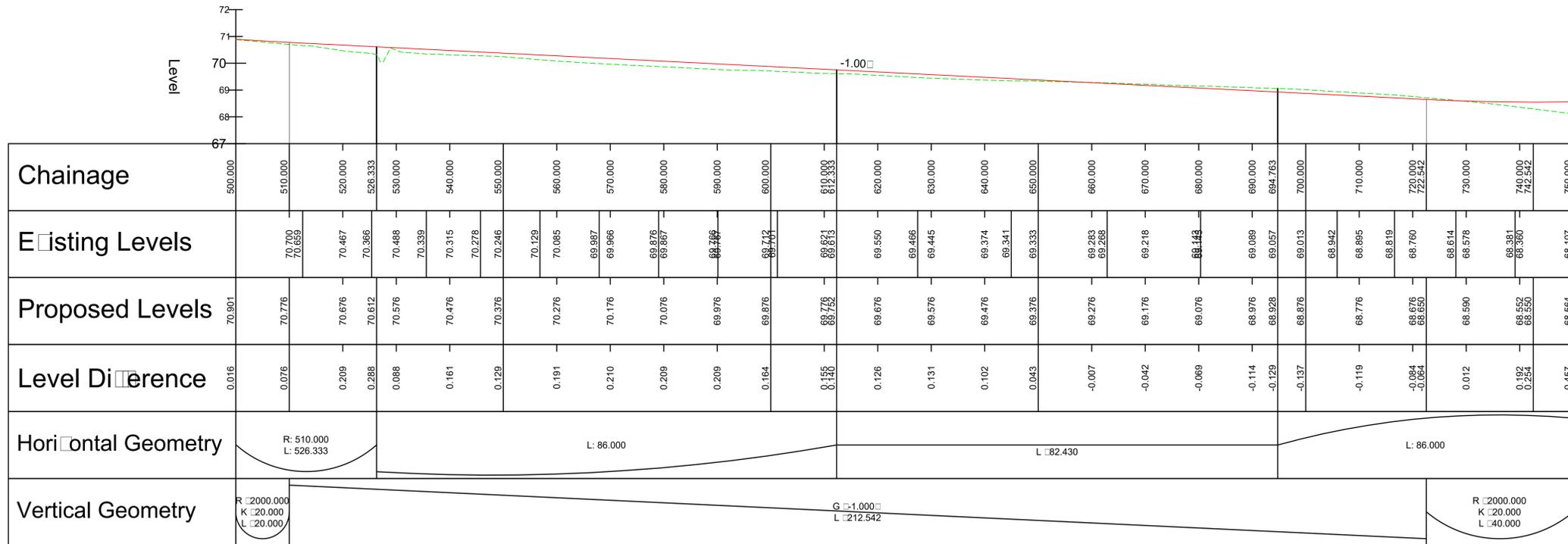
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2803	P03

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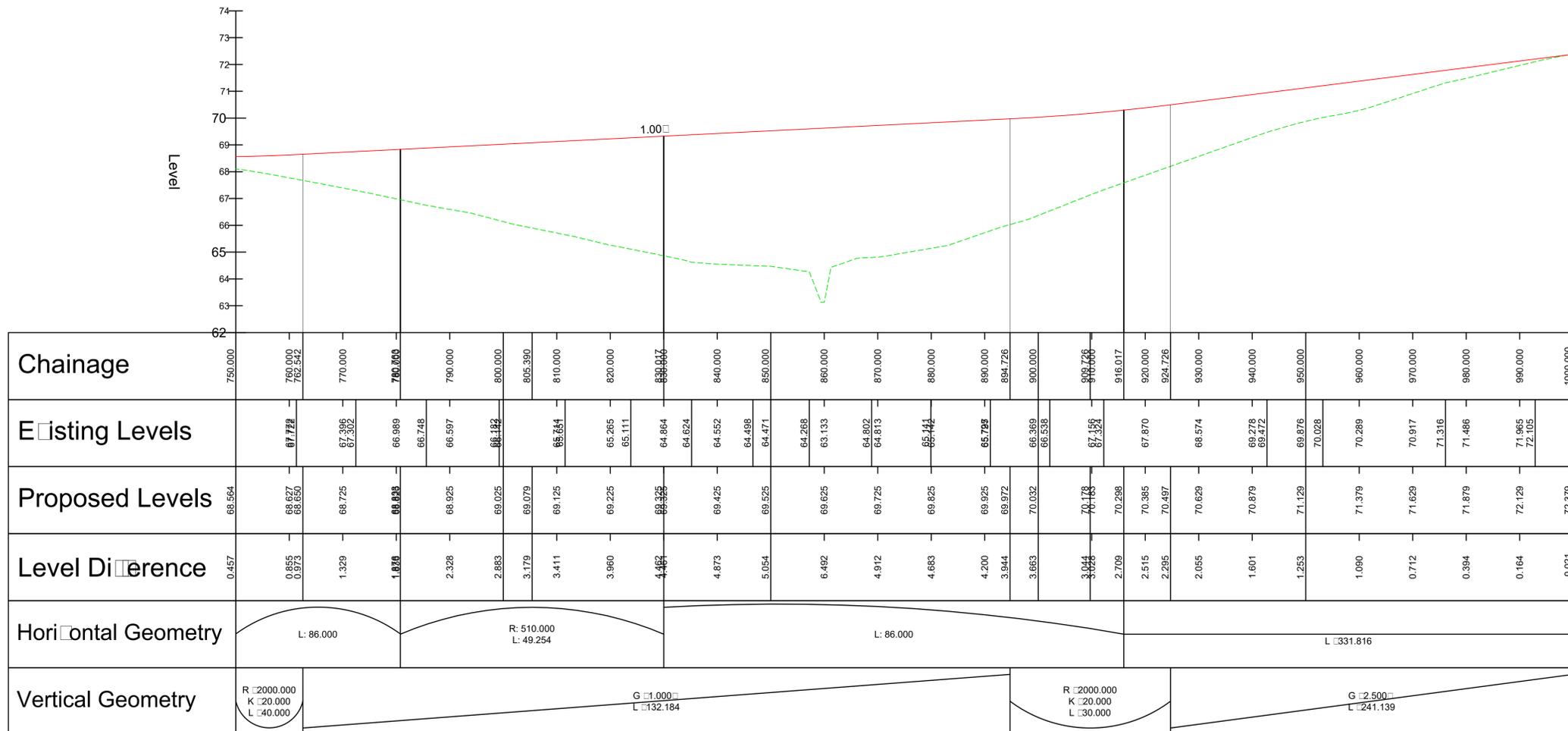
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SCALE: H 1:500,V 1:100. DATUM: 67.000



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KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY

LINK 103 - LONGSECTION - CH 750.000M - CH 1000.000M
SCALE: H 1:500,V 1:100. DATUM: 62.000



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REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P	SWP
P01	20/11/2020	DE	FIRST ISSUE	A.P	SWP

DRAWING STATUS: SI - [] OR [] PPROJ [] []

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

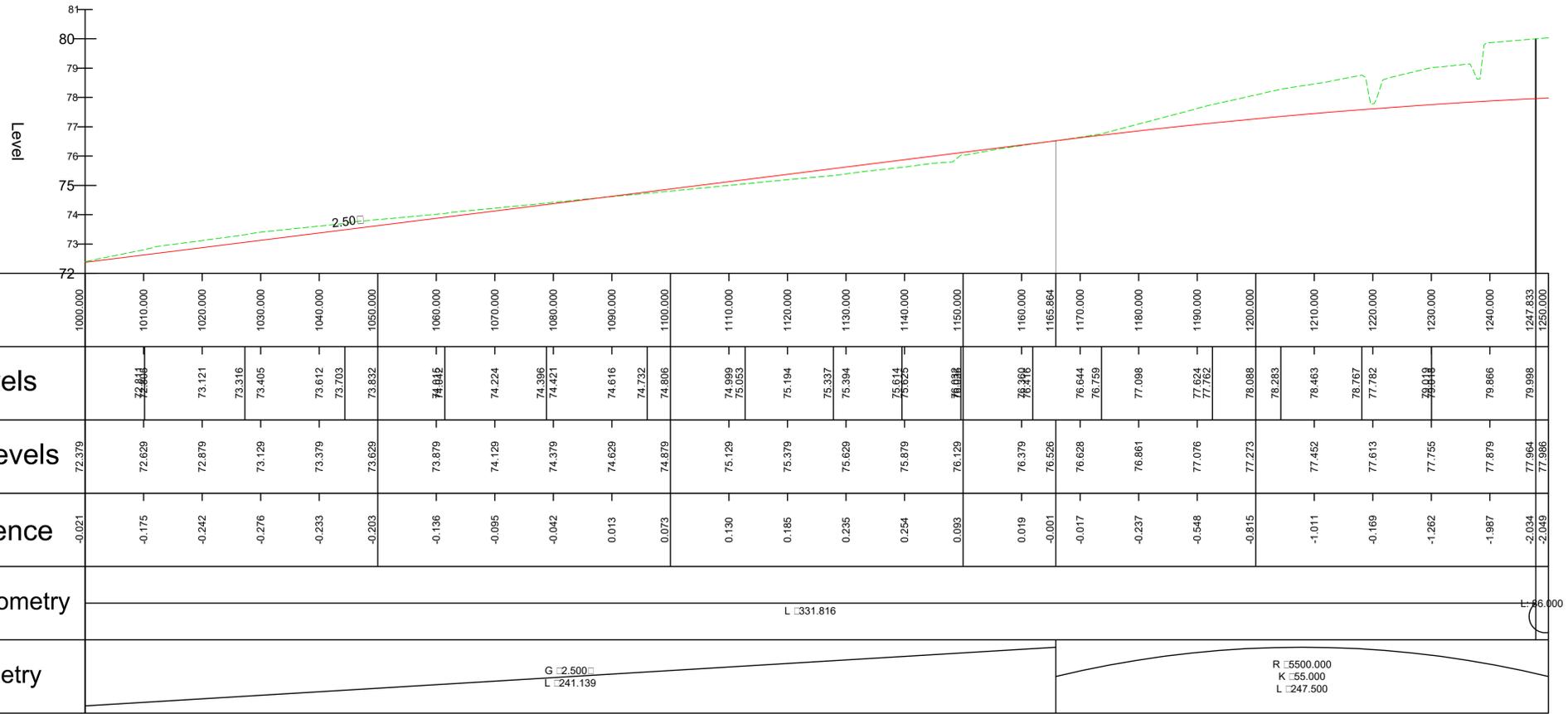
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SHEET 2 OF 3

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		November 20

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-2804 REV: P03

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LINK 103 - LONGSECTION - CH 1000.000M - CH 1250.000M
SCALE: H 1:500,V 1:100. DATUM: 72.000



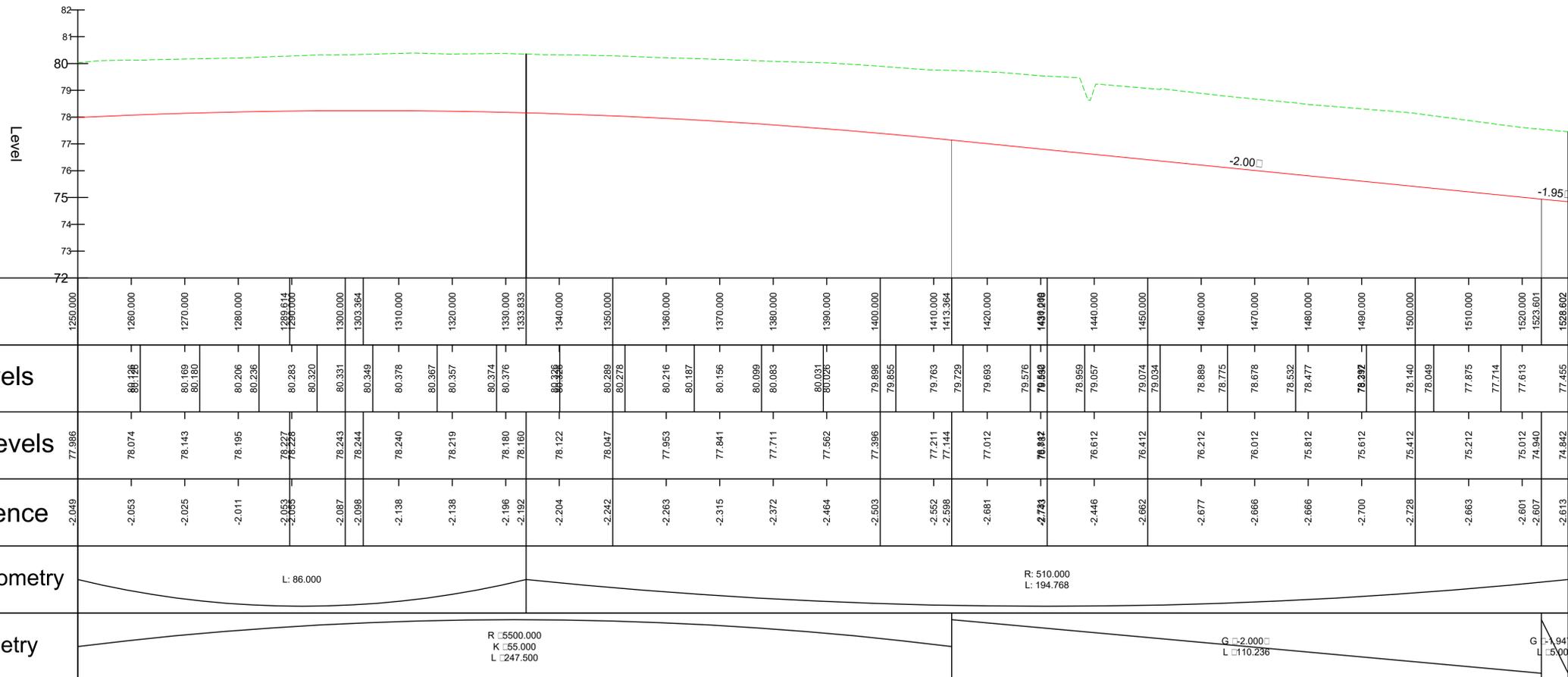
- NOTES:
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

LINK 103 - LONGSECTION - CH 1250.000M - CH 1528.602M
SCALE: H 1:500,V 1:100. DATUM: 72.000



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REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	DE	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: **SI - OR PPRO**

Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK
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wsp.com

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 103 LONG SECTION
CH 1000.000m - CH 1528.602m
SHEET 3 OF 3**

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2805	P03

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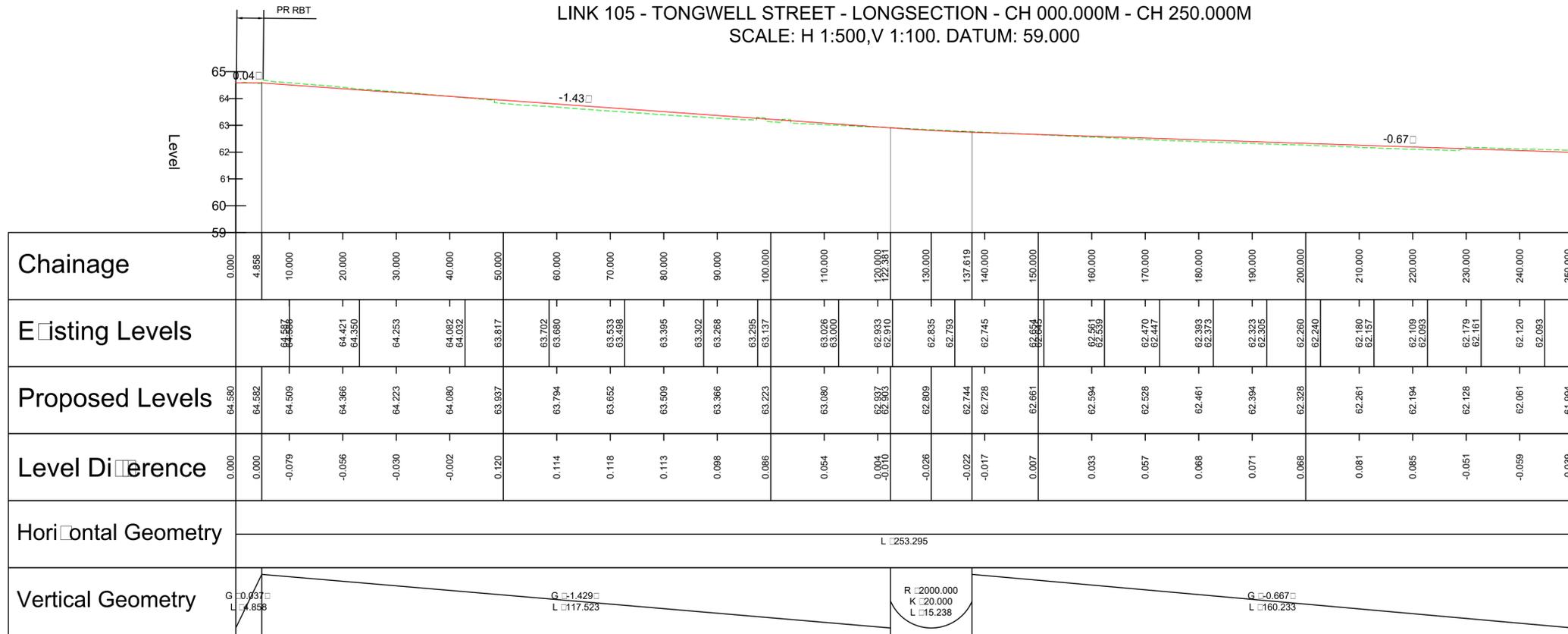
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 105 - TONGWELL STREET - LONGSECTION - CH 000.000M - CH 250.000M
SCALE: H 1:500,V 1:100. DATUM: 59.000



LINK 105 - TONGWELL STREET - LONGSECTION - CH 250.000M - CH 500.000M
SCALE: H 1:500,V 1:100. DATUM: 61.000



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REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	OPL	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: **SI - [] OR [] PPROJ [] []**

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 105 LONG SECTION
CH 000.000m - CH 500.000m
SHEET 1 OF 2**

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

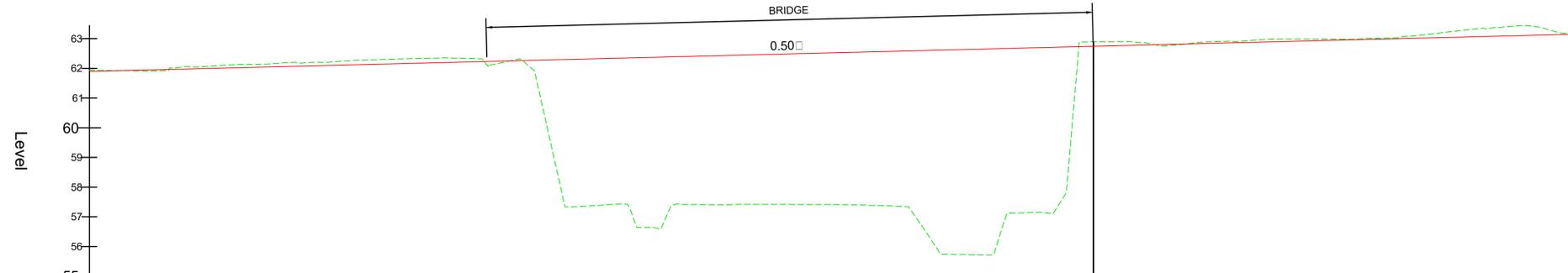
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	OPL	November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2807	P03

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LINK 105 - TONGWELL STREET - LONGSECTION - CH 500.000M - CH 750.000M
SCALE: H 1:500,V 1:100. DATUM: 55.000



Chainage	500.000	510.000	520.000	530.000	540.000	550.000	560.000	570.000	580.000	590.000	600.000	610.000	620.000	630.000	640.000	650.000	660.000	669.092	670.000	680.000	690.000	700.000	710.000	720.000	730.000	740.000	750.000							
Existing Levels		61.810	61.664	62.183	62.204	62.309	62.352	62.319	62.215	60.083	57.417	57.418	57.418	57.445	57.396	57.412	57.380	56.745	55.717	57.155	55.728	62.891	57.132	62.774	62.890	62.805	62.896	62.884	62.985	63.024	62.960	63.250	63.423	63.088
Proposed Levels	61.898	61.948	61.998	62.048	62.098	62.148	62.198	62.248	62.298	62.348	62.398	62.448	62.498	62.548	62.598	62.648	62.698	62.748	62.798	62.848	62.898	62.948	62.998	63.048	63.098	63.148	63.198	63.248	63.298	63.348	63.398	63.448	63.498	
Level Difference	-0.042	0.038	-0.070	-0.096	-0.106	-0.153	-0.154	0.033	4.881	4.914	4.982	5.030	5.083	5.152	5.852	6.931	5.542	-0.147	-0.143	0.024	-0.051	-0.086	-0.033	-0.027	-0.202	-0.325	-0.022							
Horizontal Geometry	R: 1500.000 L: 415.797																	L: 92.503																
Vertical Geometry	G: 0.500 L: 339.786																	G: 0.500 L: 339.786																

- NOTES:
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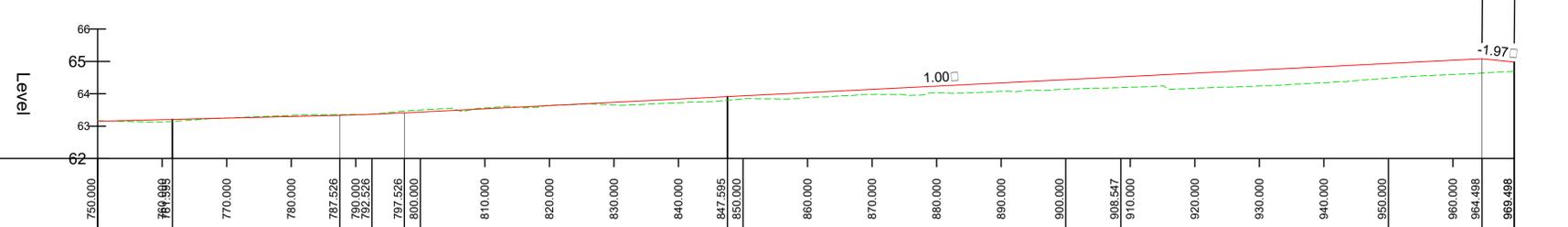
KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

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LINK 105 - TONGWELL STREET - LONGSECTION - CH 750.000M - CH 969.498M
SCALE: H 1:500,V 1:100. DATUM: 62.000



Chainage	750.000	760.000	770.000	780.000	787.526	790.000	792.526	797.526	800.000	810.000	820.000	830.000	840.000	847.595	850.000	860.000	870.000	880.000	890.000	900.000	908.547	910.000	920.000	930.000	940.000	950.000	960.000	964.498	969.498					
Existing Levels		63.132	63.253	63.140	63.335	63.274	63.349	63.366	63.410	63.435	63.414	63.557	63.555	63.642	63.666	63.721	63.800	63.846	63.978	63.974	64.031	64.027	64.026	64.149	64.189	64.220	64.240	64.384	64.263	64.485	64.372	64.594	65.080	64.696
Proposed Levels	63.148	63.208	63.248	63.298	63.335	63.349	63.366	63.410	63.435	63.535	63.635	63.735	63.835	63.911	63.935	64.035	64.135	64.235	64.335	64.435	64.520	64.535	64.635	64.735	64.835	64.935	65.035	65.080	65.120	65.160	65.200	65.240	65.280	
Level Difference	-0.022	0.066	-0.005	-0.037	-0.020	-0.009	-0.003	-0.055	-0.066	-0.022	-0.007	0.080	0.114	0.111	0.093	0.147	0.157	0.204	0.258	0.295	0.331	0.335	0.466	0.495	0.494	0.450	0.440	0.441	0.441	0.441	0.441	0.441		
Horizontal Geometry	L: 92.503		L: 86.000										R: 510.000 L: 121.903																					
Vertical Geometry	G: 0.500 L: 339.786		R: 2000.000 K: 20.000 L: 10.000										G: 1.000 L: 166.972																					

PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	OPL	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - OR PPRO

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wsp.com

CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 105 LONG SECTION
CH 500.000m - CH 969.498m
SHEET 2 OF 2

SCALE @ AT:	AS SHOWN	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	OPL
				DATE:	November 20

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-2808 REV: P03

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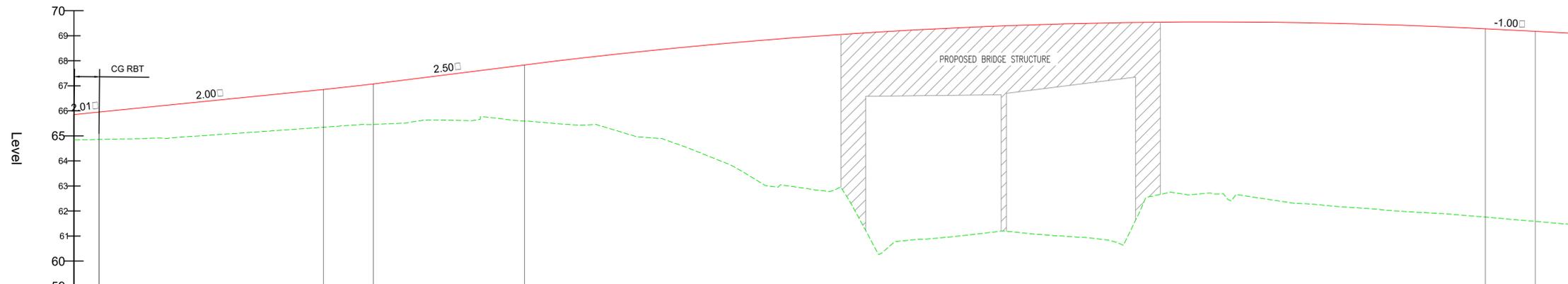
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 106 - LONGSECTION - CH 000.000M - CH 300.000M
SCALE: H 1:500,V 1:100. DATUM: 59.000



Chainage	Existing Levels	Proposed Levels	Level Difference
0.000		65.853	0.000
5.000		65.954	0.000
10.000	64.877	66.054	0.000
20.000	64.883	66.254	0.000
30.000	65.024	66.454	0.000
40.000	65.204	66.654	0.000
50.000	65.269	66.854	0.000
55.000	65.347	66.960	0.000
59.888	65.457	67.073	0.000
65.511	65.511	67.329	0.000
65.828	65.628	67.579	0.000
65.620	65.620	67.834	0.000
65.616	65.616	68.070	0.000
65.646	65.592	68.293	0.000
65.592	65.476	68.498	0.000
65.442	65.442	68.685	0.000
65.234	65.234	68.854	0.000
65.130	65.130	69.004	0.000
64.885	65.234	69.136	0.000
68.882	65.130	69.250	0.000
68.977	64.885	69.346	0.000
69.026	68.882	69.398	0.000
62.809	62.809	69.424	0.000
62.838	62.838	69.483	0.000
60.685	60.685	69.524	0.000
60.775	60.775	69.547	0.000
60.875	60.875	69.553	0.000
60.982	60.982	69.552	0.000
61.062	61.062	69.539	0.000
61.198	61.198	69.508	0.000
61.127	61.127	69.468	0.000
61.011	61.011	69.390	0.000
60.971	60.971	69.304	0.000
60.844	60.844	69.278	0.000
60.648	60.648	69.200	0.000
62.739	62.739	69.142	0.000
62.745	62.745	69.100	0.000
62.882	62.882	69.055	0.000
62.443	62.443	69.000	0.000
62.381	62.381	68.955	0.000
62.238	62.238	68.910	0.000
62.167	62.167	68.865	0.000
62.089	62.089	68.820	0.000
62.031	62.031	68.775	0.000
61.941	61.941	68.730	0.000
61.899	61.899	68.685	0.000
61.803	61.803	68.640	0.000
61.691	61.691	68.595	0.000
61.633	61.633	68.550	0.000
61.529	61.529	68.505	0.000
61.474	61.474	68.460	0.000
61.417	61.417	68.415	0.000
61.360	61.360	68.370	0.000
61.303	61.303	68.325	0.000
61.246	61.246	68.280	0.000
61.189	61.189	68.235	0.000
61.132	61.132	68.190	0.000
61.075	61.075	68.145	0.000
61.018	61.018	68.100	0.000
60.961	60.961	68.055	0.000
60.904	60.904	68.010	0.000
60.847	60.847	67.965	0.000
60.790	60.790	67.920	0.000
60.733	60.733	67.875	0.000
60.676	60.676	67.830	0.000
60.619	60.619	67.785	0.000
60.562	60.562	67.740	0.000
60.505	60.505	67.695	0.000
60.448	60.448	67.650	0.000
60.391	60.391	67.605	0.000
60.334	60.334	67.560	0.000
60.277	60.277	67.515	0.000
60.220	60.220	67.470	0.000
60.163	60.163	67.425	0.000
60.106	60.106	67.380	0.000
60.049	60.049	67.335	0.000
60.000	60.000	67.290	0.000

Horizontal Geometry
L 592.320

Vertical Geometry
G 2.000% L 45.002
R 2000.000 K 20.000 L 3.996
G 2.500% L 30.205
R 5500.000 K 55.000 L 192.500
G 1.000% L 110.000

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REV	DATE	BY	DESCRIPTION	CHK	APP
P04	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P03	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P02	12/02/2021	OPL	BRIDGE ADDED	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: SI - [] OR [] PPROJ [] []

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 106 LONG SECTION
CH 000.000m - CH 300.000m
SHEET 1 OF 2

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

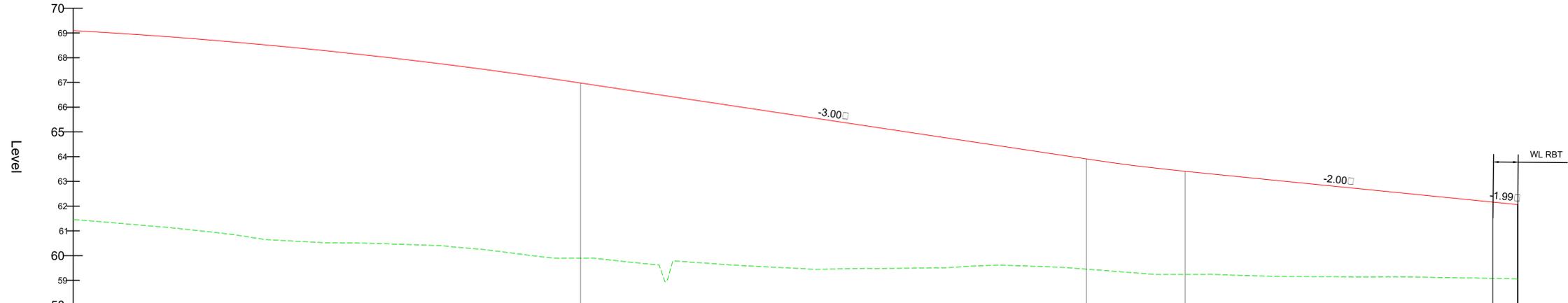
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LINK 106 - LONGSECTION - CH 250.000M - CH 592.320M
SCALE: H 1:500, V 1:100. DATUM: 58.000

KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY



Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
300.000		69.100	7.637		
310.000	61.266	68.978	7.681		
320.000	61.124	68.837	7.713		
330.000	61.024	68.678	7.771		
340.000	60.908	68.501	7.863		
350.000	60.690	68.353	7.797		R 5500.000 K 55.000 L 110.000
360.000	60.639	68.306	7.775		
370.000	60.435	68.093	7.592		
380.000	60.405	67.862	7.426		
390.000	60.300	67.612	7.312		
400.000	60.113	67.344	7.269		
410.000	60.075	67.058	7.162		
420.000	59.896	66.878	7.080		
430.000	59.796	66.759	6.963		G 3.000 L 102.297
440.000	59.713	66.659	6.946		
450.000	59.669	66.559	6.890		
460.000	59.594	66.459	6.865		
470.000	59.550	66.359	6.809		
480.000	59.492	66.259	6.767		
490.000	59.452	66.159	6.707		
500.000	59.418	66.059	6.641		
510.000	59.378	65.959	6.581		R 2000.000 K 20.000 L 20.000
520.000	59.337	65.859	6.522		
530.000	59.297	65.759	6.464		
540.000	59.257	65.659	6.407		
550.000	59.217	65.559	6.351		
560.000	59.177	65.459	6.295		
570.000	59.137	65.359	6.240		
580.000	59.097	65.259	6.184		
590.000	59.057	65.159	6.129		
592.320	59.017	65.059	6.073		G 1.989 L 4.998

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P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: **SI - OR PPRO**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 106 LONG SECTION
CH 300.000m - CH 592.320m
SHEET 2 OF 2**

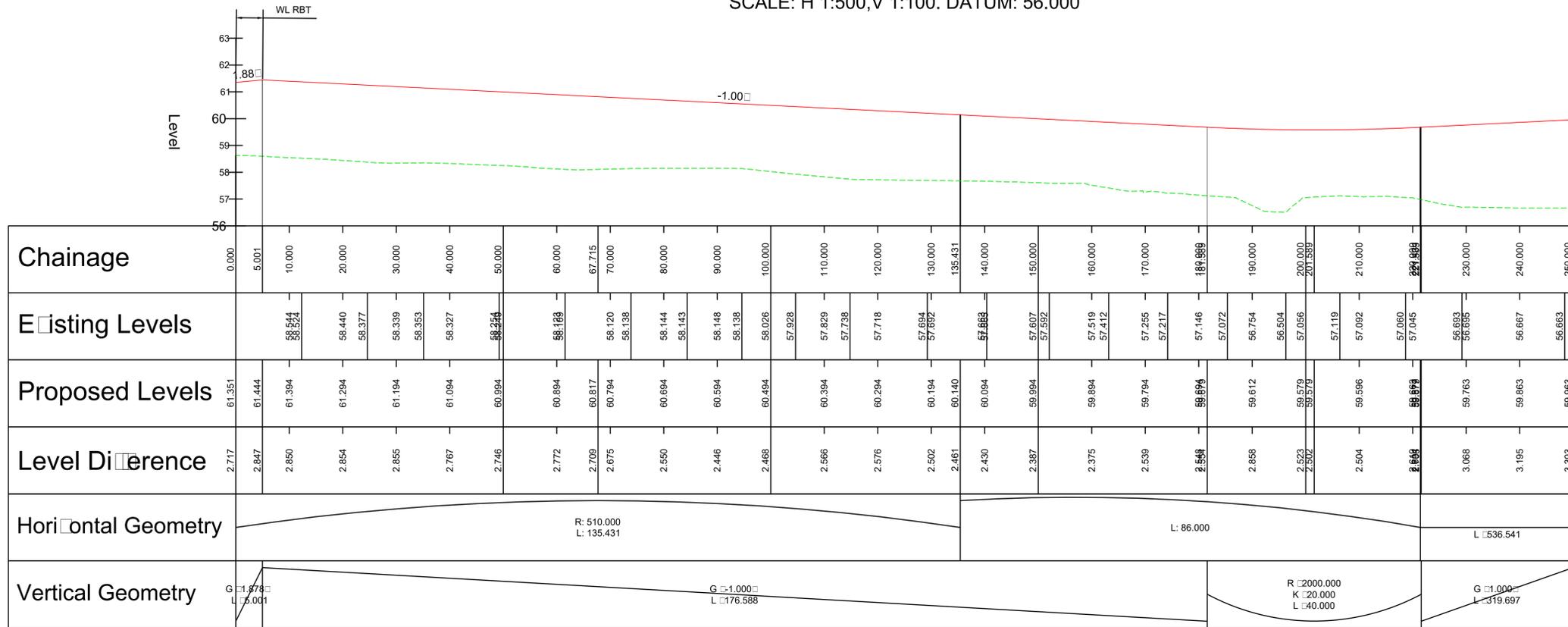
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AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No: **MKE-WSP-ZZ-ZZ-C-SK-2810** REV: **P03**

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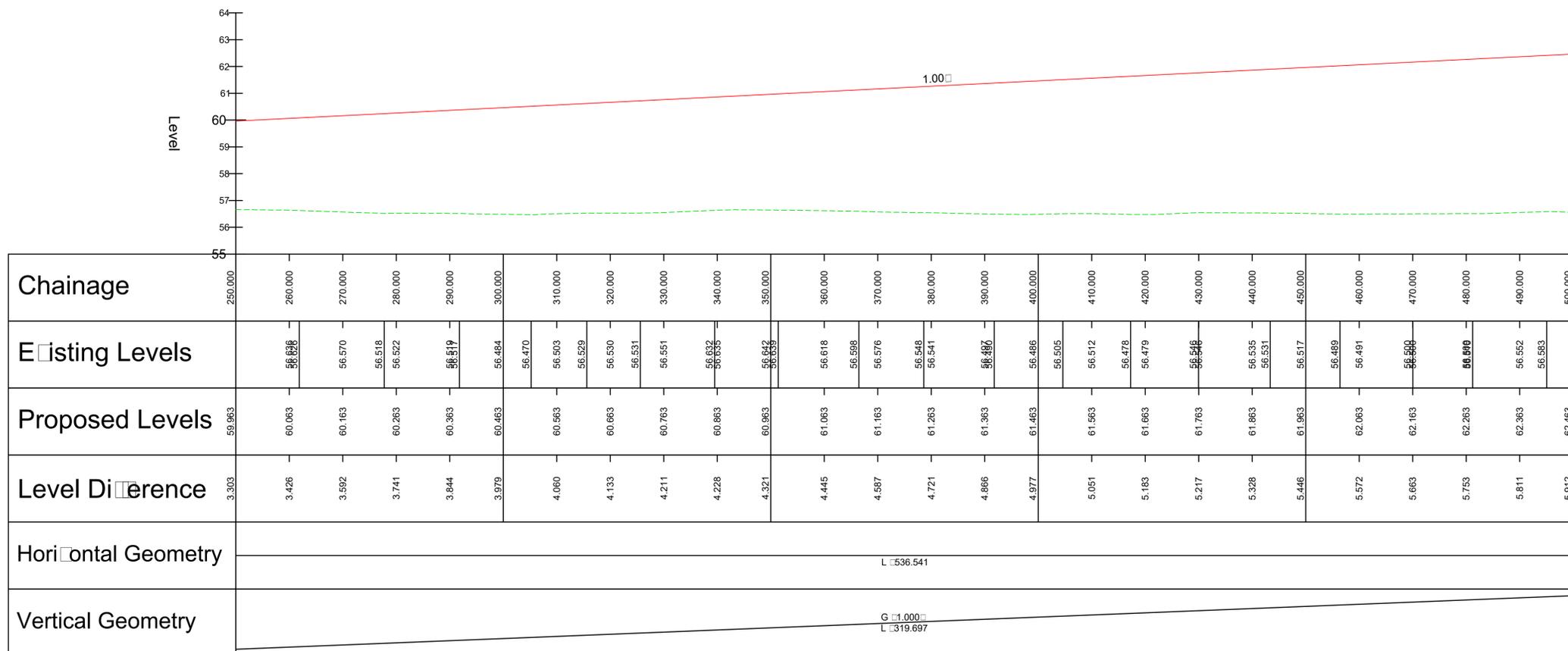
LINK 107 - LONGSECTION - CH 000.000M - CH 250.000M
SCALE: H 1:500,V 1:100. DATUM: 56.000



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KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY

LINK 107 - LONGSECTION - CH 250.000M - CH 500.000M
SCALE: H 1:500,V 1:100. DATUM: 55.000



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P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: **SI - (OR) PPRO**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 107 LONG SECTION
CH 000.000m - CH 500.000m
SHEET 1 OF 2**

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2811	P03

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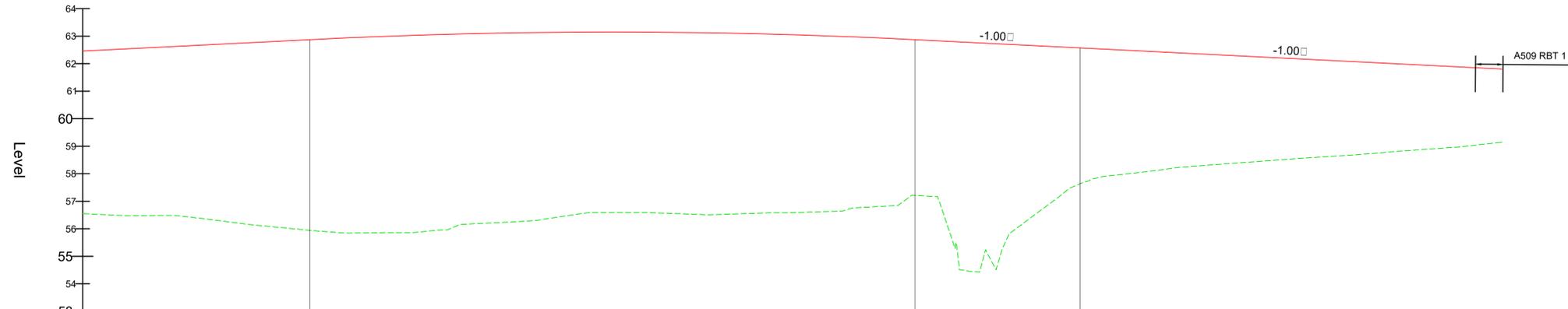
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 5. CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.

KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

LINK 107 - LONGSECTION - CH 500.000M - CH 757.972M
SCALE: H 1:500,V 1:100. DATUM: 53.000



Chainage	500.000	510.000	520.000	530.000	540.000	550.000	560.000	570.000	580.000	590.000	596.286	600.000	610.000	620.000	630.000	640.000	650.000	660.000	670.000	680.000	700.000	710.000	720.000	730.000	740.000	750.000	757.972	
Existing Levels		56.478	56.489	56.414	56.167	55.939	55.850	55.862	55.861	55.960	56.172	56.247	56.274	56.549	56.593	56.593	56.537	56.512	56.551	56.580	56.595	56.645	56.759	56.849	56.849	56.849	56.849	56.849
Proposed Levels	62.463	62.563	62.663	62.763	62.863	62.956	63.031	63.088	63.126	63.147	63.151	63.149	63.133	63.099	63.047	62.977	62.888	62.788	62.688	62.588	62.488	62.388	62.288	62.188	62.088	61.988	61.888	61.809
Level Difference	5.912	6.085	6.249	6.596	6.899	7.106	7.169	6.915	6.853	6.610	6.556	6.556	6.697	6.548	6.452	6.218	5.775	8.292	6.632	5.062	4.487	4.143	3.895	3.647	3.415	3.158	2.916	2.664
Horizontal Geometry	L = 536.541																											
Vertical Geometry	G = -1.000 L = 319.697					R = 55.000 K = 55.000 L = 110.000										G = -1.000 L = 76.686												

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

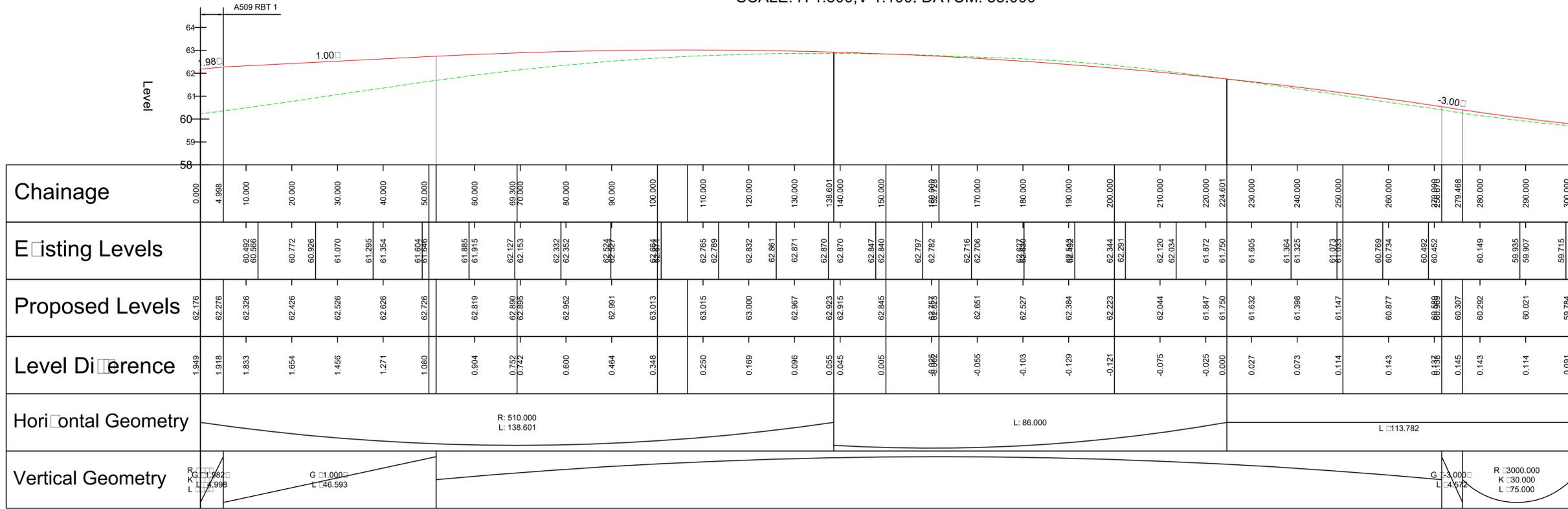
TITLE: LINK 107 LONG SECTION
CH 500.000m - CH 757.972m
SHEET 2 OF 2

SCALE @ A1:	AS SHOWN	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	GLG
				DATE:	November 20

DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2812 REV: P03

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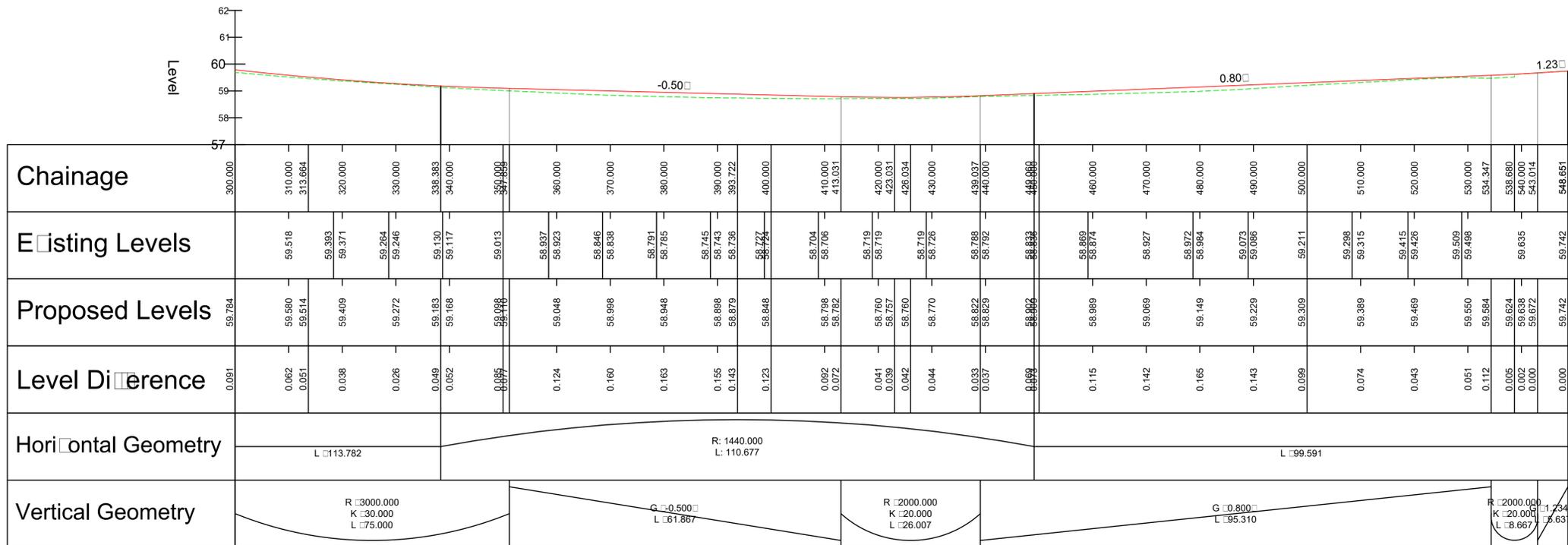
LINK 108 - LONGSECTION - CH 000.000M - 300.000M
SCALE: H 1:500,V 1:100. DATUM: 58.000



- NOTES:
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 - ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
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KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY

LINK 108 - LONGSECTION - CH 300.000M - CH 548.651M
SCALE: H 1:500,V 1:100. DATUM: 57.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SAP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SAP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SAP

DRAWING STATUS: **SI - [] OR [] PPROJ [] []**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 108 LONG SECTION
CH 000.000m - CH 548.651m**

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

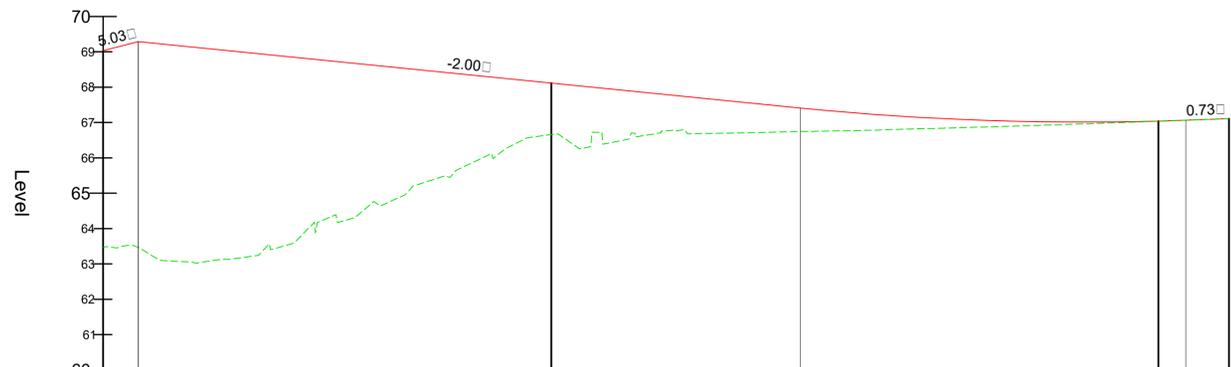
DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2813	P03

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File name: I:\UK\WSPGROUP\CENTRAL DATA\PROJECTS\70057521\WSP\PLANNING APPLICATIONS\WSP\ZZ-ZZ-C-SK-2813.DWG, printed on 25 March 2021 13:56:58 by Bowen, Dean

File name: I:\UK\WSPGROUP\COMCENTRAL\DATA\PROJECTS\70057521 - MKE - PLANNING APPLICATIONS\DRAWINGS\MKE-WSP-ZZ-C-SK-2815.DWG, printed on 25 March 2021 14:09:13, by Bowen, Dan

LINK 109 - TONGWELL STREET LINK - LONGSECTION - CH 000.000M - CH 159.501M
SCALE: H 1:500,V 1:100. DATUM: 60.000



Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
0.000		69.035	5.569	R: 510.000 L: 63.487	G: 5.035% L: 3.004%
5.004	69.077	69.288	5.825		
10.000	68.977	69.188	6.111	L: 86.000	G: -2.000% L: 93.785
20.000	68.988	68.988	5.800		
30.940	64.066 64.394	68.788	4.762		
40.000	64.706	68.588	3.882		
50.000	65.199	68.388	2.743		
60.000	66.127	68.188	1.627		
63.487	66.562	68.119	1.458		
70.000	66.428	67.988	1.264		
80.000	66.725	67.788	1.016		
90.000	66.652	67.588	0.882		
100.000	66.700	67.388	0.685	R: 2000.000 K: 20.000 L: 54.580	
110.000	66.783 66.780	67.220	0.430		
120.000	66.842 66.845	67.101	0.256		
126.080	66.900 66.903	67.053	0.173		
130.000	66.968 66.971	67.032	0.129		
138.790	67.013	67.013	0.049		
140.000	67.013	67.013	0.042		
148.487	67.038	67.044	0.004		
153.370	67.066	67.066	0.000		
159.501	67.110	67.110	0.000		

- NOTES:**
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

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REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS:		SI - [] OR [] PPROJ [] []
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T +44 (0) 2380 101 700
wsp.com

CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 109 LONG SECTION
CH 000.000m - CH 159.501m**

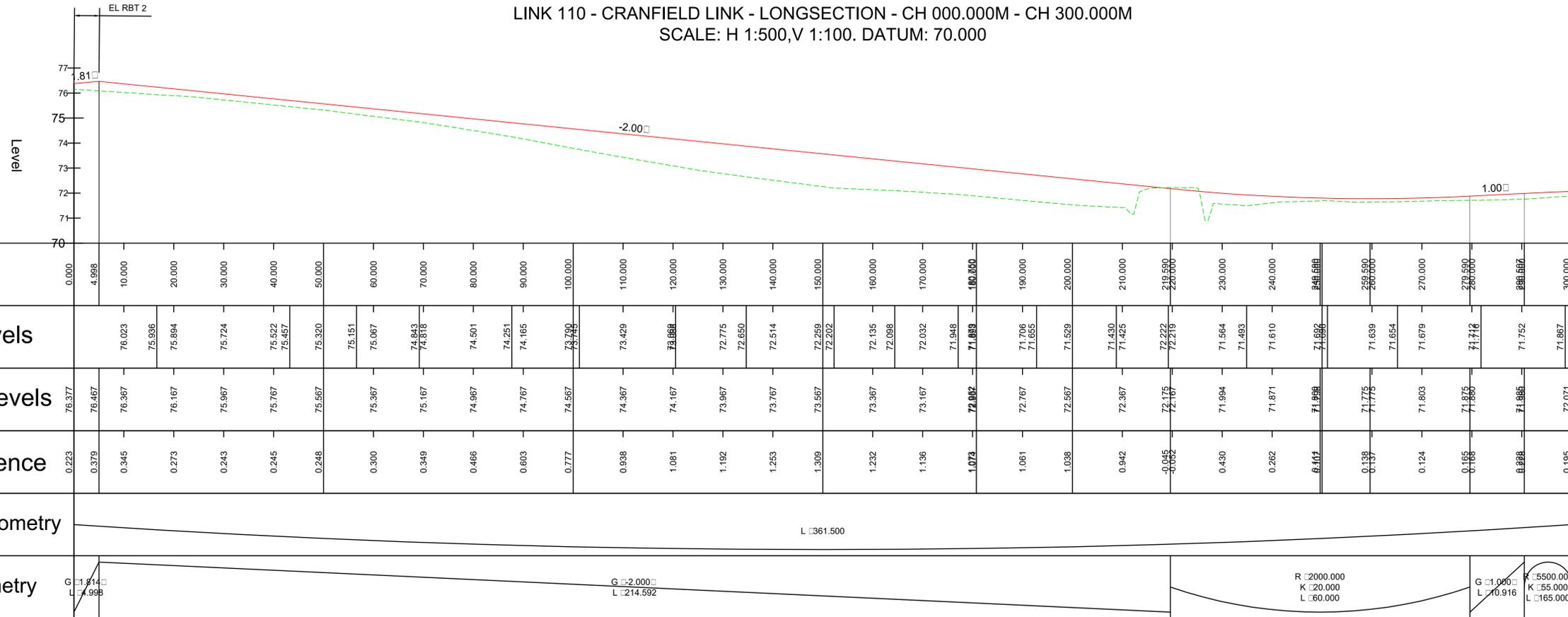
SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DRAWN: GLG
		DATE: November 20

DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2815	REV: P03
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LINK 110 - CRANFIELD LINK - LONGSECTION - CH 000.000M - CH 300.000M
SCALE: H 1:500,V 1:100. DATUM: 70.000



- NOTES:
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KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY

LINK 110 - CRANFIELD LINK - LONGSECTION - CH 300.000M - CH 553.555M
SCALE: H 1:500,V 1:100. DATUM: 68.000



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P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: SI OR PPRO

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 110 LONG SECTION
CH 000.000m - CH 553.555m

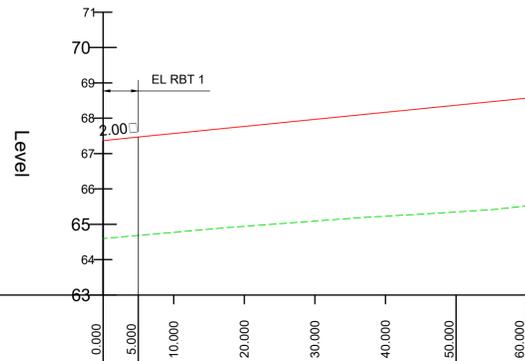
SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2816	P03

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LINK 301 - LONGSECTION - CH 000.000M - 60.000M
SCALE: H 1:500,V 1:100. DATUM: 63.000



Chainage	0.000	5.000	10.000	20.000	30.000	40.000	50.000	60.000
Existing Levels			64.773	64.909 64.943	65.033 65.067	65.230 65.264	65.351	65.413
Proposed Levels	67.367	67.467	67.567	67.767	67.967	68.167	68.367	68.567
Level Difference	2.769	2.782	2.794	2.825	2.875	2.937	3.016	3.049
Horizontal Geometry	L = 202.533							
Vertical Geometry	G = 2.000 L = 3.000							

- NOTES:
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

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PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **SI - [] OR [] PPROJ [] []**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 301 LONG SECTION
CH 000.000m - CH 60.000m**

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2817	P03

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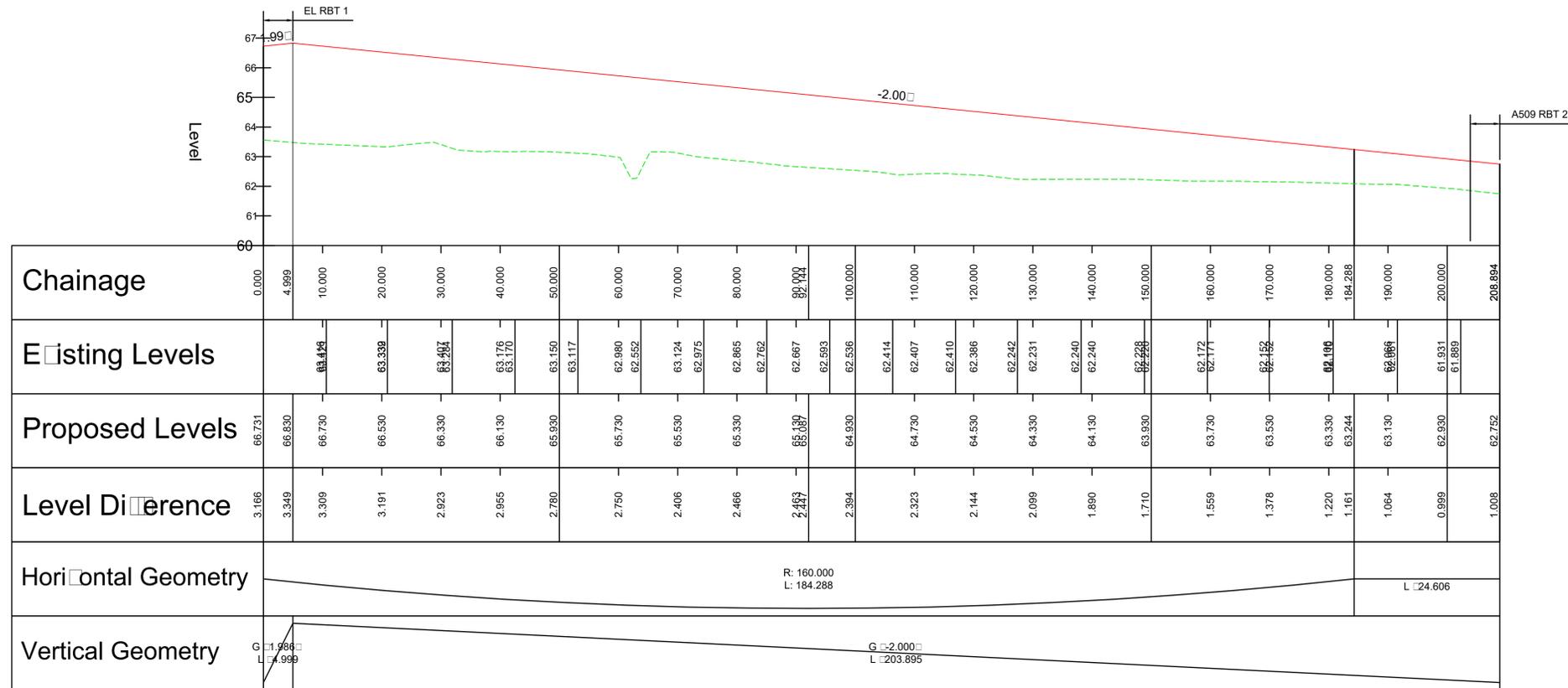
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

LINK 302 - LONGSECTION - CH 000.000M - 208.894M
SCALE: H 1:500, V 1:100. DATUM: 60.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P	SWP

DRAWING STATUS: SI - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 302 LONG SECTION
CH 000.000m - CH 208.894m

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2818	P03

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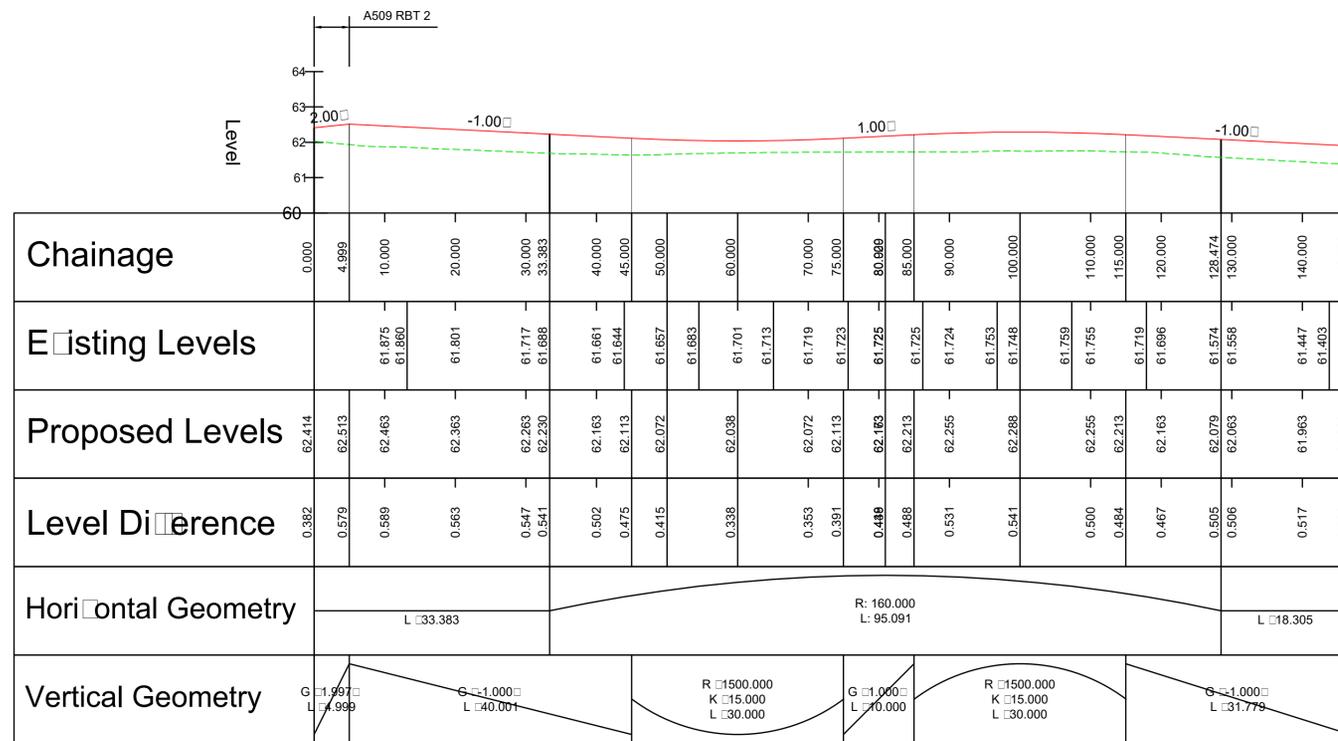
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 303 - LONGSECTION - CH 000.000M - 146.779M
SCALE: H 1:500, V 1:100. DATUM: 60.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS:		SI - [] OR [] PPROJ [] []
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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 303 LONG SECTION
CH 000.000m - CH 146.779m

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DRAWN: GLG
		DATE: November 20

DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2819 REV: P03

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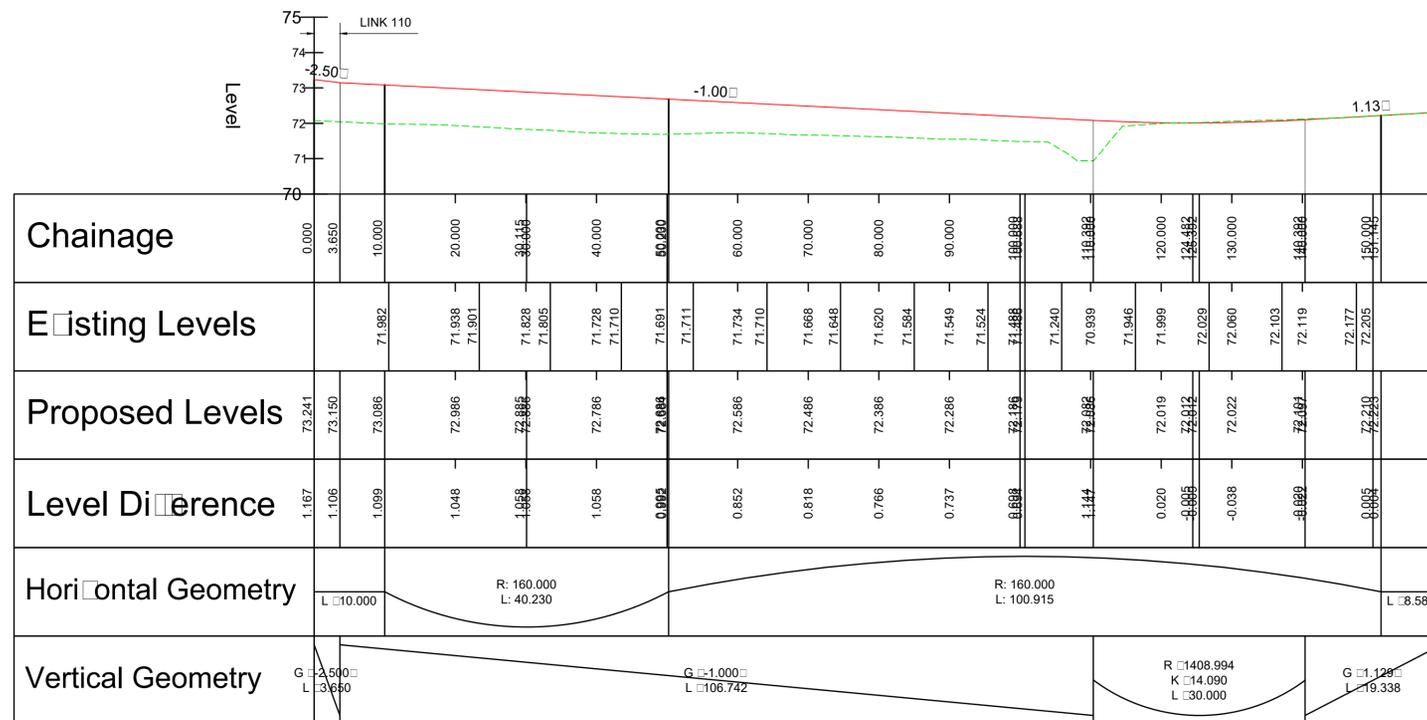
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 304 - LONGSECTION - CH 000.000M - 159.730M
SCALE: H 1:500,V 1:100. DATUM: 70.000



UNLIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: **SI - [] OR [] PPROJ [] []**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 304 LONG SECTION
CH 000.000m - CH 159.730m**

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2820	P03

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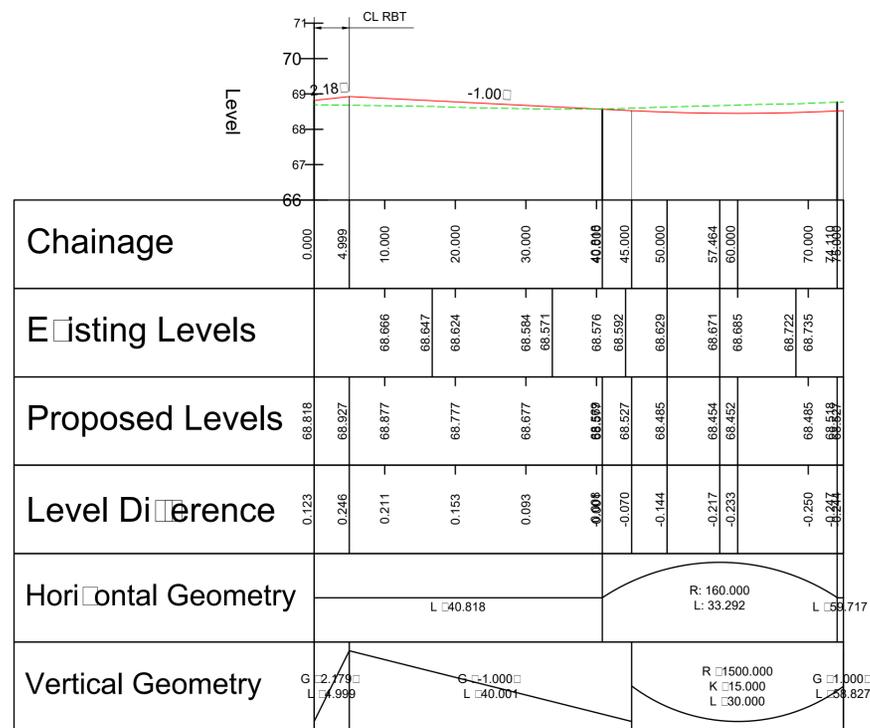
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 305 - LONGSECTION - CH 000.000M - CH 75.000M
SCALE: H 1:500, V 1:100. DATUM: 66.000



UNLIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SAP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SAP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SAP

DRAWING STATUS: Si - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE PROJECT: MILTON KEYNES EAST

TITLE: LINK 305 LONG SECTION
CH 000.000m - CH 75.000m

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2821	P03

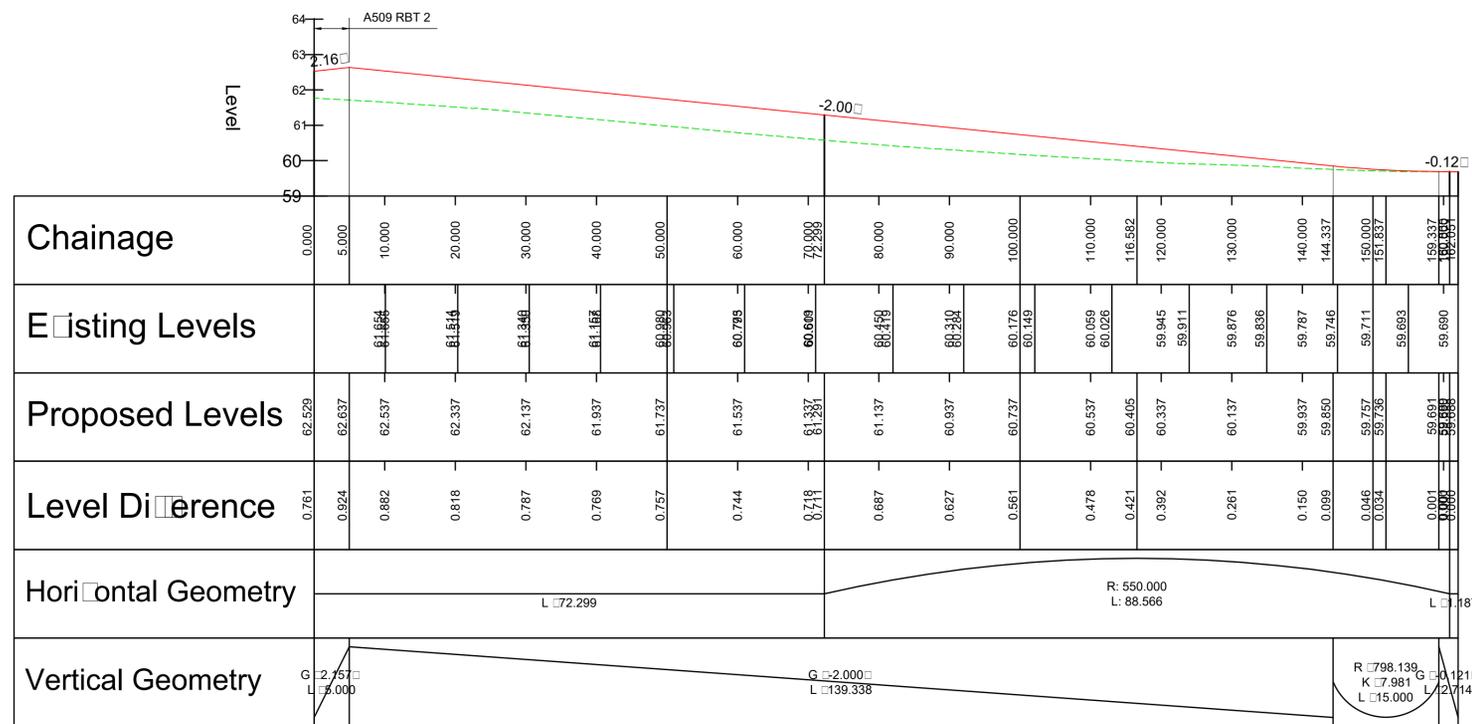
NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
4. THIS DRAWING IS NOT TO BE REPRODUCED IN ANY PART OF FORM WITHOUT PRIOR CONSENT FROM WSP UK LIMITED, ALL COPY RIGHT RESERVED.
5. CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.

KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 501 - LONGSECTION - CH 000.000M - CH 162.051M
SCALE: H 1:500, V 1:100. DATUM: 59.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: SI - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE PROJECT: MILTON KEYNES EAST

TITLE: LINK 501 LONG SECTION
CH 000.000m - CH 162.051m

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2823	P03

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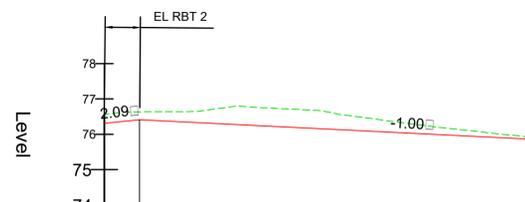
NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 502 - LONGSECTION - CH 000.000M - CH 60.000M
SCALE: H 1:500,V 1:100. DATUM: 74.000



Chainage	0.000	4.999	10.000	20.000	30.000	40.000	50.000	60.000	
Existing Levels			76.842	76.783	76.678	76.389	76.213	76.144	75.932
Proposed Levels	76.310	76.415	76.365	76.265	76.165	76.065	75.965	75.865	
Level Difference	-0.264	-0.223	-0.276	-0.518	-0.513	-0.324	-0.179	-0.067	
Horizontal Geometry	L = 82.507								
Vertical Geometry	G = 2.092 L = 4.999		G = -1.000 L = 77.507						

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 502 LONG SECTION
CH 000.000m - CH 60.000m

SCALE @ A1: AS SHOWN | CHECKED: ARP | APPROVED: SAP

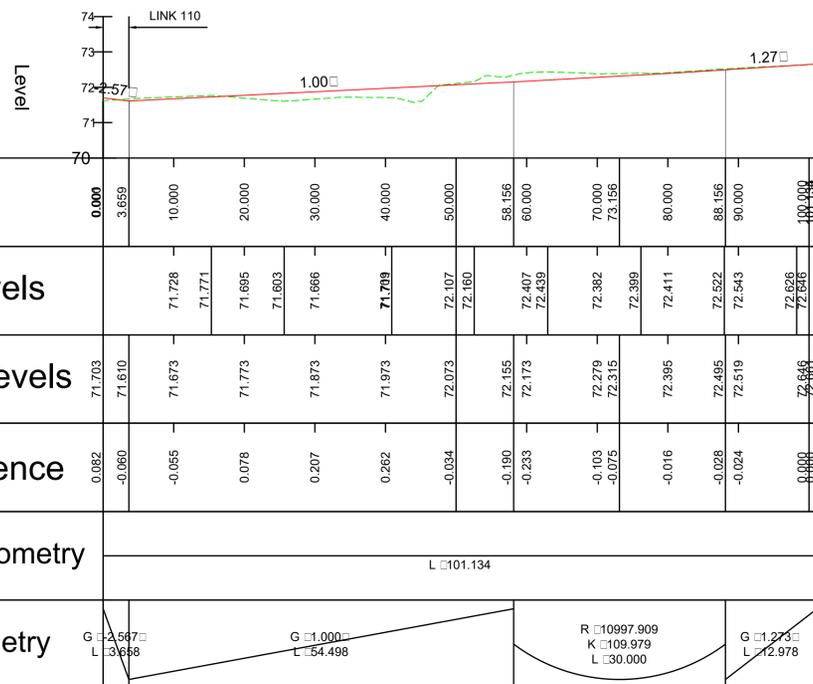
PROJECT NO: 70057521 | DESIGNED: ARP | DRAWN: GLG | DATE: November 20

DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2824 | REV: P03

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File name: I:\UK\WSPGROUP\COMCENTRAL\DATA\PROJECTS\70057521\WKE-PLANNING\APPLICATIONS\DRAWINGS\MKE-WSP-ZZ-C-SK-2825.DWG, printed on 25 March 2021 15:18:38, by Bowen, Dean

LINK 503 - LONGSECTION - CH 000.000M - CH 101.135M
SCALE: H 1:500, V 1:100. DATUM: 70.000



Chainage	0.000	3.659	10.000	20.000	30.000	40.000	50.000	58.156	60.000	70.000	73.156	80.000	88.156	90.000	100.000				
Existing Levels			71.728	71.771	71.685	71.603	71.666	71.789	72.107	72.160	72.407	72.439	72.382	72.389	72.411	72.522	72.543	72.626	72.646
Proposed Levels	71.703	71.610	71.673	71.773	71.873	71.973	72.073	72.155	72.173	72.279	72.315	72.395	72.495	72.519	72.646				
Level Difference	0.082	-0.060	-0.055	0.078	0.207	0.262	-0.034	-0.190	-0.233	-0.103	-0.075	-0.016	-0.028	-0.024	0.000				
Horizontal Geometry	L 101.134																		
Vertical Geometry	G 1.257 L 3.658			G 1.000 L 34.498				R 10997.909 K 109.979 L 30.000				G 1.273 L 72.978							

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **SI - OR PPROJ**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

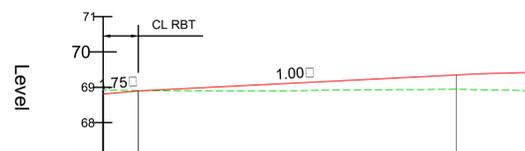
TITLE: **LINK 503 LONG SECTION
CH 000.000m - CH 101.135m**

SCALE @ A1:	CHECKED:	APPROVED:	
AS SHOWN	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2825	P03

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LINK 504 - LONGSECTION - CH 000.000M - CH 60.000M
SCALE: H 1:500,V 1:100. DATUM: 67.000



Chainage	0.000	4.999	10.000	20.000	30.000	40.000	50.000	60.000	
Existing Levels			68.904	68.889	68.896	68.914	68.932	68.943 68.948	68.906
Proposed Levels	68.812	68.899	68.949	69.049	69.149	69.249	69.349	69.416	
Level Difference	-0.120	-0.007	0.045	0.151	0.235	0.318	0.401	0.509	
Horizontal Geometry	L=93.581								
Vertical Geometry	G=1.74% L=4.999 G=1.00% L=45.001 K=1500.000 L=30.000								

NOTES:

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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

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PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:	SI - [] OR [] PPROJ [] []
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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

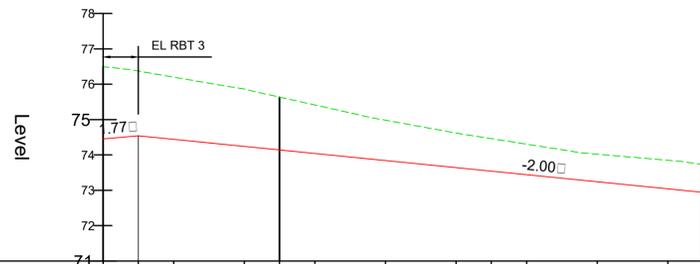
TITLE: LINK 504 LONG SECTION
CH 000.000m - CH 60.000m

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2826	P03

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LINK 505 - LONGSECTION - CH 000.000M - CH 85.000M
SCALE: H 1:500,V 1:100. DATUM: 71.000



Chainage	0.000	5.000	10.000	20.000	25.000	30.000	40.000	50.000	55.000	60.000	70.000	80.000	85.000			
Existing Levels			76.202	75.934	75.864	75.511	75.416	75.049	74.983	74.681	74.463	74.235	74.023	73.961	73.851	73.728
Proposed Levels	74.457	74.546	74.446	74.246	74.146	74.046	73.846	73.646	73.546	73.446	73.246	73.046	72.846			
Level Difference	-2.042	-1.828	-1.757	-1.619	-1.491	-1.370	-1.137	-0.976	-0.917	-0.861	-0.778	-0.805	-0.783			
Horizontal Geometry	L: 25.000 R: 110.000 L: 60.000															
Vertical Geometry	G: 1.750 L: 5.000 G: 2.000 L: 115.000															

- NOTES:
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

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PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: Si - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 505 LONG SECTION
CH 000.000m - CH 85.000m

SCALE @ A1:	AS SHOWN	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	GLG
				DATE:	November 20

DRAWING No:	MKE-WSP-ZZ-ZZ-C-SK-2827	REV:	P03
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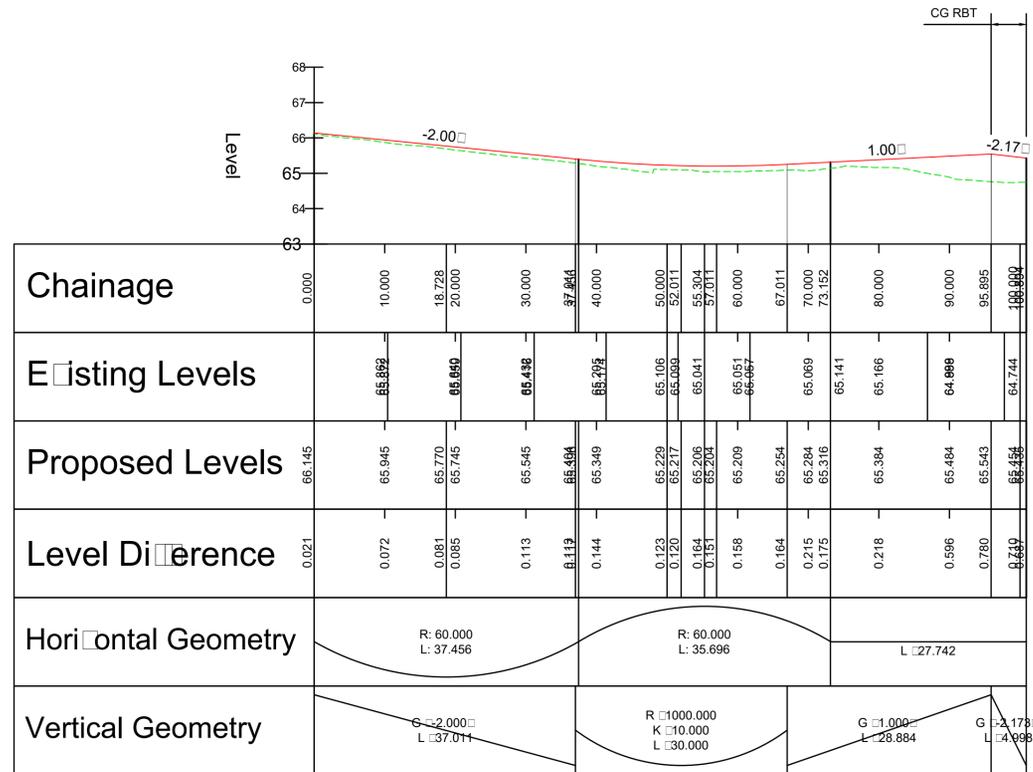
NOTES:

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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 506 - CARLETON GATE - LONGSECTION - CH 000.000M - CH 100.894M
SCALE: H 1:500,V 1:100. DATUM: 63.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

DRAWING STATUS: **SI - [] OR [] PPROJ [] []**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 506 LONG SECTION
CH 000.000m - CH 100.894m**

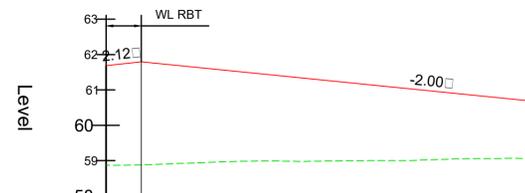
SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2828	P03

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LINK 507 - LONGSECTION - CH 000.000M - CH 60.000M
SCALE: H 1:500,V 1:100. DATUM: 58.000



Chainage	0.000	5.000	10.000	20.000	30.000	40.000	50.000	60.000
Existing Levels			58.918 58.957	58.985	58.978	58.985	59.003 59.003	58.951 59.049
Proposed Levels	61.688	61.704	61.694	61.494	61.294	61.094	60.894	60.694
Level Difference	2.814	2.912	2.776	2.509	2.309	2.091	1.841	1.644
Horizontal Geometry	L = 87.388							
Vertical Geometry	G = 2.722% L = 35.000							
	G = -2.000% L = 82.388							

- NOTES:
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 2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SAP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SAP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S I - O OR P P P R O J



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 507 LONG SECTION
CH 000.000m - CH 50.000m

SCALE @ A1: AS SHOWN

CHECKED: ARP

APPROVED: SAP

PROJECT NO: 70057521

DESIGNED: ARP

DRAWN: GLG

DATE: November 20

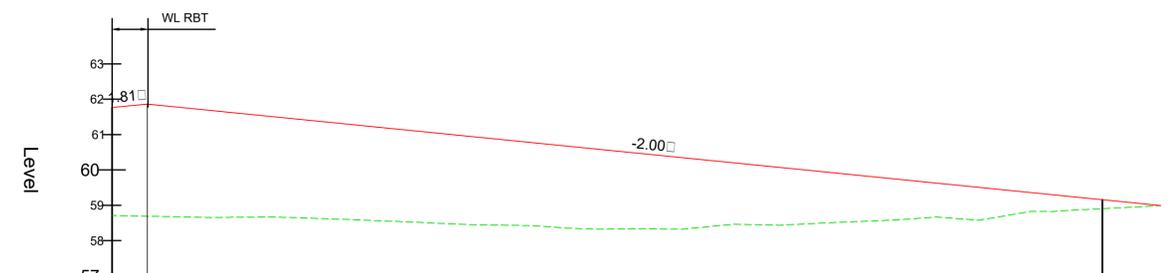
DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2829

REV: P03

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File name: I:\UK\WSPGROUP\COMCENTRAL\DATA\PROJECTS\70057521 - MKE - PLANNING APPLICATIONS\DRAWINGS\MKE-WSP-ZZ-C-SK-2830.DWG, printed on 25 March 2021 15:38:54, by Bowen, Dan

LINK 508 - LONGSECTION - CH 000.000M - CH 148.546M
SCALE: H 1:500,V 1:100. DATUM: 57.000



Chainage	0.000	4.999	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	144.421	148.546								
Existing Levels			58.672	58.656	58.666	58.653	58.673	58.548	58.506	58.459	58.437	58.418	58.326	58.328	58.388	58.457	58.437	58.492	58.588	58.621	58.578	58.824	58.825	58.902	58.946	58.969
Proposed Levels	61.771	61.862	61.762	61.562	61.362	61.162	60.962	60.762	60.562	60.362	60.162	59.962	59.762	59.562	59.362	59.162	58.962	58.762	58.562	58.362	58.162	57.962	57.762	57.562	57.362	57.162
Level Difference	3.059	3.170	3.089	2.896	2.739	2.614	2.503	2.343	2.233	2.037	1.705	1.469	1.184	0.941	0.638	0.335	0.127	-0.004								
Horizontal Geometry	L: 140.296																	R: 110.000	L: 8.250							
Vertical Geometry	G: -2.000%																	L: 143.547								

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
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KEY:

— PROPOSED ROAD ALIGNMENT

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PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPROJ [] []

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 508 LONG SECTION
CH 000.000m - CH 148.546m

SCALE @ A1:	CHECKED:	APPROVED:	
AS SHOWN	ARP	SAP	
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2830 REV: P03

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LINK 509 - LONGSECTION - CH 000.000M - CH 75.000M
SCALE: H 1:500, V 1:100. DATUM: 59.000



Chainage	0.000	4.999	10.000	20.000	30.000	40.000	49.017	59.999	70.000	75.000
Existing Levels			60.286 60.286	60.515 60.517	60.639	60.748 60.748	60.826 60.852	60.925 60.927	60.971 60.969	
Proposed Levels	61.403	61.494	61.544	61.644	61.744	61.844	61.944	62.043	62.142	62.194
Level Difference	1.350	1.349	1.257	1.129	1.105	1.094	1.122	1.118	1.173	1.174
Horizontal Geometry	L: 49.017						R: 110.000 L: 21.761		L: 40.538	
Vertical Geometry	G: 1.827 L: 4.999		G: 1.000 L: 106.337							

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
 3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
 4. THIS DRAWING IS NOT TO BE REPRODUCED IN ANY PART OF FORM WITHOUT PRIOR CONSENT FROM WSP UK LIMITED, ALL COPY RIGHT RESERVED.
 5. CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.

KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

UNLESS TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO3	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO2	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
PO1	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **SI - [] OR [] PPROJ [] []**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **LINK 509 LONG SECTION
CH 000.000m - CH 75.000m**

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2831	P03

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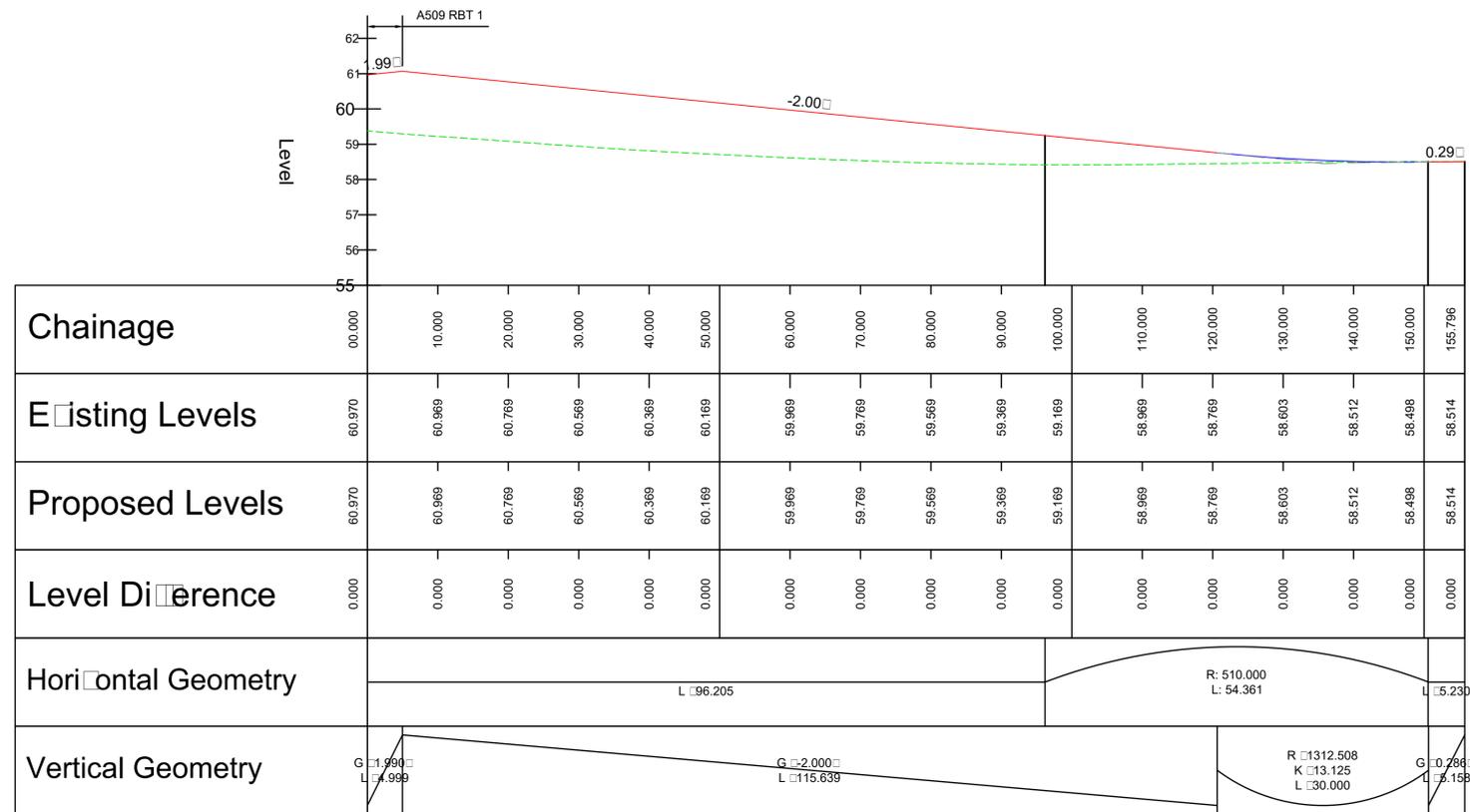
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

LINK 510 - LONGSECTION - CH 000.000M - CH 155.796M
SCALE: H 1:500, V 1:100. DATUM: 55.000



UNLESS TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

REV	DATE	BY	DESCRIPTION	CHK	APP
P03	26/03/2021	OPL	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P02	12/03/2021	OPL	ISSUED FOR PLANNING	A.P.	SWP
P01	20/11/2020	GLG	FIRST ISSUE	A.P.	SWP

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	November 20

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2832	P03

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 510 LONG SECTION
CH 000.000m - CH 246.144m

SCALE @ AT: AS SHOWN

CHECKED: ARP

APPROVED: SAP

PROJECT NO: 70057521

DESIGNED: ARP

DRAWN: GLG

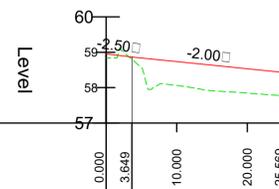
DATE: November 20

DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2832

REV: P03

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LINK 511 - LONGSECTION - CH 000.000M - CH 25.569M
SCALE: H 1:500,V 1:100. DATUM: 57.000



Chainage	0.000	3.649	10.000	20.000	25.569
Existing Levels			58.064	57.847	57.795
Proposed Levels	58.955	58.864	58.737	58.537	58.425
Level Difference	0.113	0.062	0.673	0.690	0.663
Horizontal Geometry	L = 25.569				
Vertical Geometry	G = 2.500 L = 3.649		G = 2.000 L = 21.920		

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

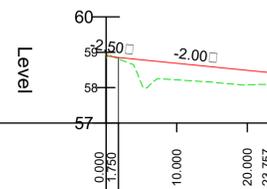
SITE/PROJECT: MILTON KEYNES EAST

TITLE: LINK 511 LONG SECTION
CH 000.000m - CH 025.569m

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		March 21

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2833	P02

LINK 512 - LONGSECTION - CH 000.000M - 23.757M
SCALE: H 1:500,V 1:100. DATUM: 57.000



Chainage	0.000	1.750	10.000	20.000	23.757
Existing Levels			58.223	58.169	58.079
Proposed Levels	58.537	58.533	58.688	58.488	58.413
Level Difference	0.070	0.040	0.465	0.410	0.333
Horizontal Geometry	L = 23.757				
Vertical Geometry	G = -2.000% L = 1.750 G = -2.000% L = 22.007				

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
 3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

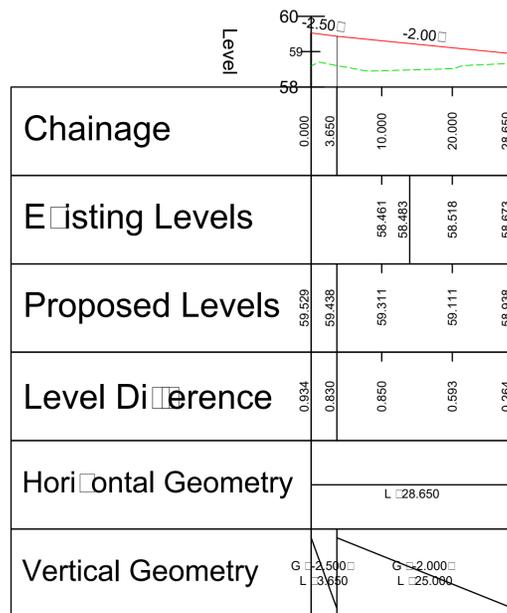
TITLE: LINK 512 LONG SECTION
CH 000.000m - CH 023.757m

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		March 21

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2834	P02

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LINK 601 - LONGSECTION - CH 000.000M - CH 28.650M
SCALE: H 1:500,V 1:100. DATUM: 58.000



- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

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PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPROJ [] []



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

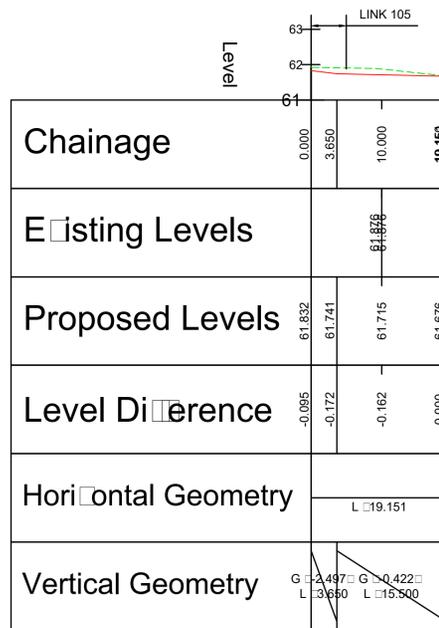
TITLE: LINK 601 LONG SECTION
CH 000.000m - CH 028.650m

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		March 21

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2835	P02

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BMX TRACK PRIVATE ACCESS - LONGSECTION - CH 000.000M - CH 19.151M
SCALE: H 1:500,V 1:100. DATUM: 61.000



- NOTES:
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

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REV	DATE	BY	DESCRIPTION	CHK	APP
P02	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
P01	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP

DRAWING STATUS: **SI - [] OR [] PPROJ [] []**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **BMX TRACK PRIVATE ACCESS
LONG SECTION
CH 000.000m - CH 19.151m**

SCALE @ AT:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	March 21

DRAWING No:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2836	P02

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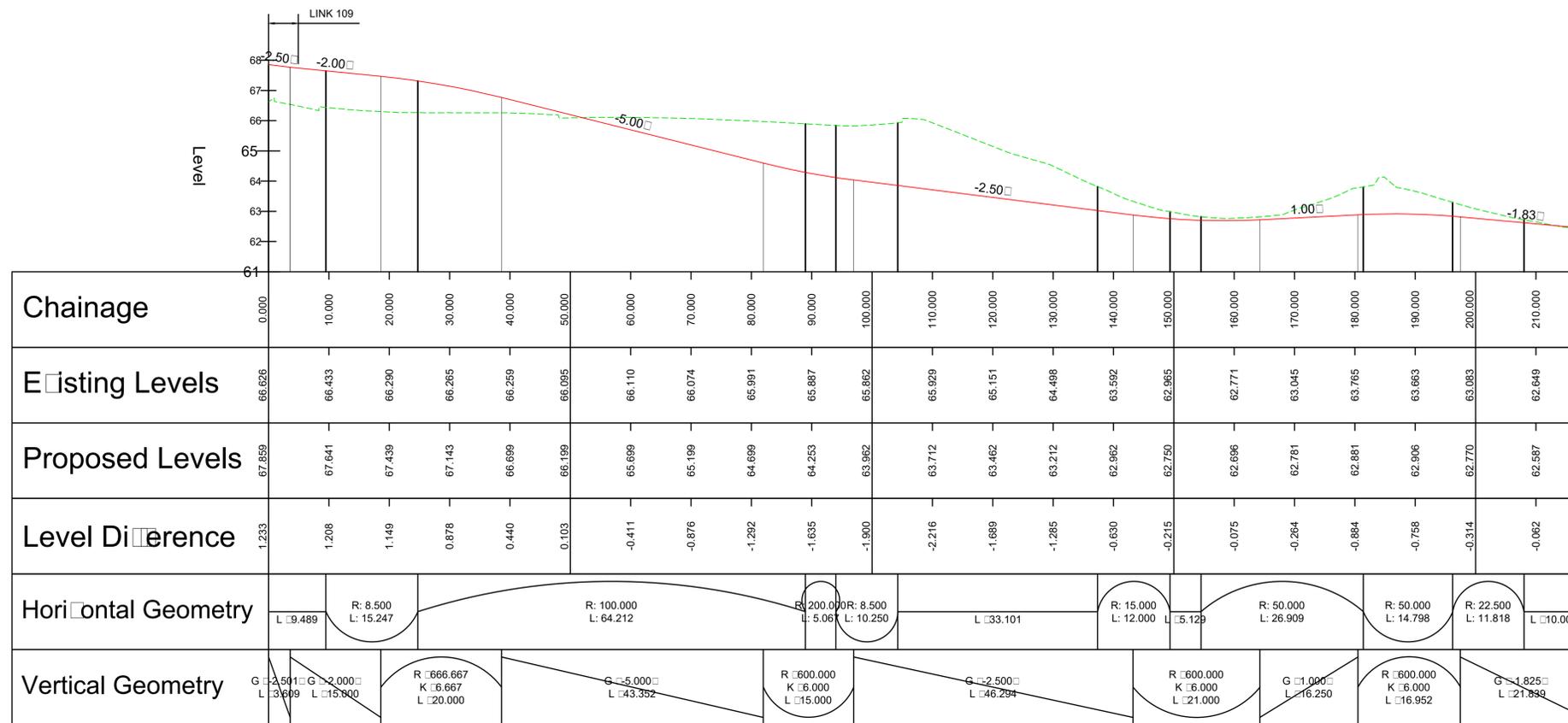
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

NEW PARKS TRUST PRIVATE ACCESS - LONGSECTION - CH 000.000M - CH 218.021M
SCALE: H 1:500, V 1:100. DATUM: 61.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	A.P.	SWP
PO1	12/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPRO [] []

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE PROJECT: MILTON KEYNES EAST

TITLE: NEW PARKS TRUST PRIVATE ACCESS
LONG SECTION
CH 000.000m - CH 218.021m

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	GLG
		DATE:
		March 21

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2837	P02

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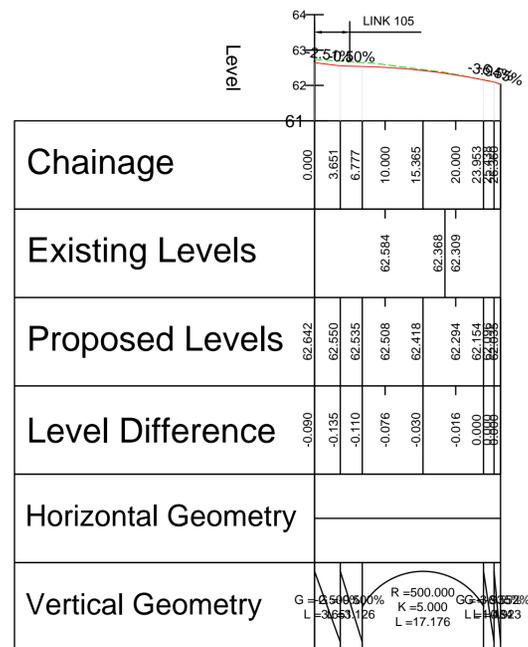
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

TONGWELL STREET CAR PARK - LONGSECTION - CH 000.000M - CH 26.360M
SCALE: H 1:500,V 1:100. DATUM: 61.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK.

PO2	26/12/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	GLG	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: TONGWELL STREET CAR PARK
 LONG SECTION
 CH 000.000m - CH 26.360m

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DRAWN: GLG
		DATE: March 21

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-2838	REV: P02
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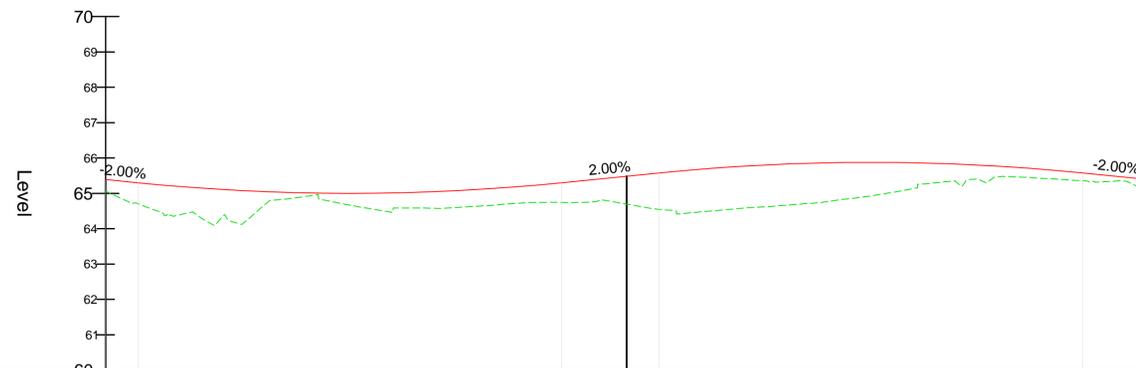
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

CARLETONGATE ROUNDABOUT - LONGSECTION - CH 000.000 - CH 147.655M
SCALE: H 1:500,V 1:100. DATUM: 60.000



Chainage	0.000	4.586	10.000	20.000	30.000	34.586	36.914	40.000	50.000	60.000	64.586	70.000	73.827	78.414	80.000	90.000	100.000	108.414	110.650	120.000	130.000	138.414	140.000	147.655		
Existing Levels			64.973	64.939	64.983	64.735	64.914	64.483	64.605	64.645	64.737	64.747	64.810	64.649	64.526	64.508	64.577	64.675	64.718	64.913	64.980	65.326	65.346	65.457	65.337	
Proposed Levels	65.392	65.300	65.201	65.071	65.007	65.000	65.002	65.010	65.079		65.215	65.300	65.408	65.485	65.576	65.607	65.763	65.853	65.876	64.913	64.980	65.832	65.721	65.576	65.545	65.392
Level Difference	0.332	0.592	0.831	0.832	0.044	0.332	0.418	0.526	0.474		0.478	0.555	0.598	0.789	1.029	1.082	1.187	1.135	0.949	0.967	0.948	0.486	0.265	0.219	0.206	0.332
Horizontal Geometry	R: 23.500 L: 73.827											R: 23.500 L: 73.827														
Vertical Geometry	G = 2.000% L = 4.586		R = 1500.000 K = 15.000 L = 60.000									G = 2.000% L = 13.827		R = 1500.000 K = 15.000 L = 60.000									G = 2.000% L = 9.241			

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	OLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: CARLETONGATE ROUNDABOUT
LONG SECTION
CH 000.000 - CH 147.655

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DATE: November 20

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-2839 REV: P02

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DO NOT SCALE

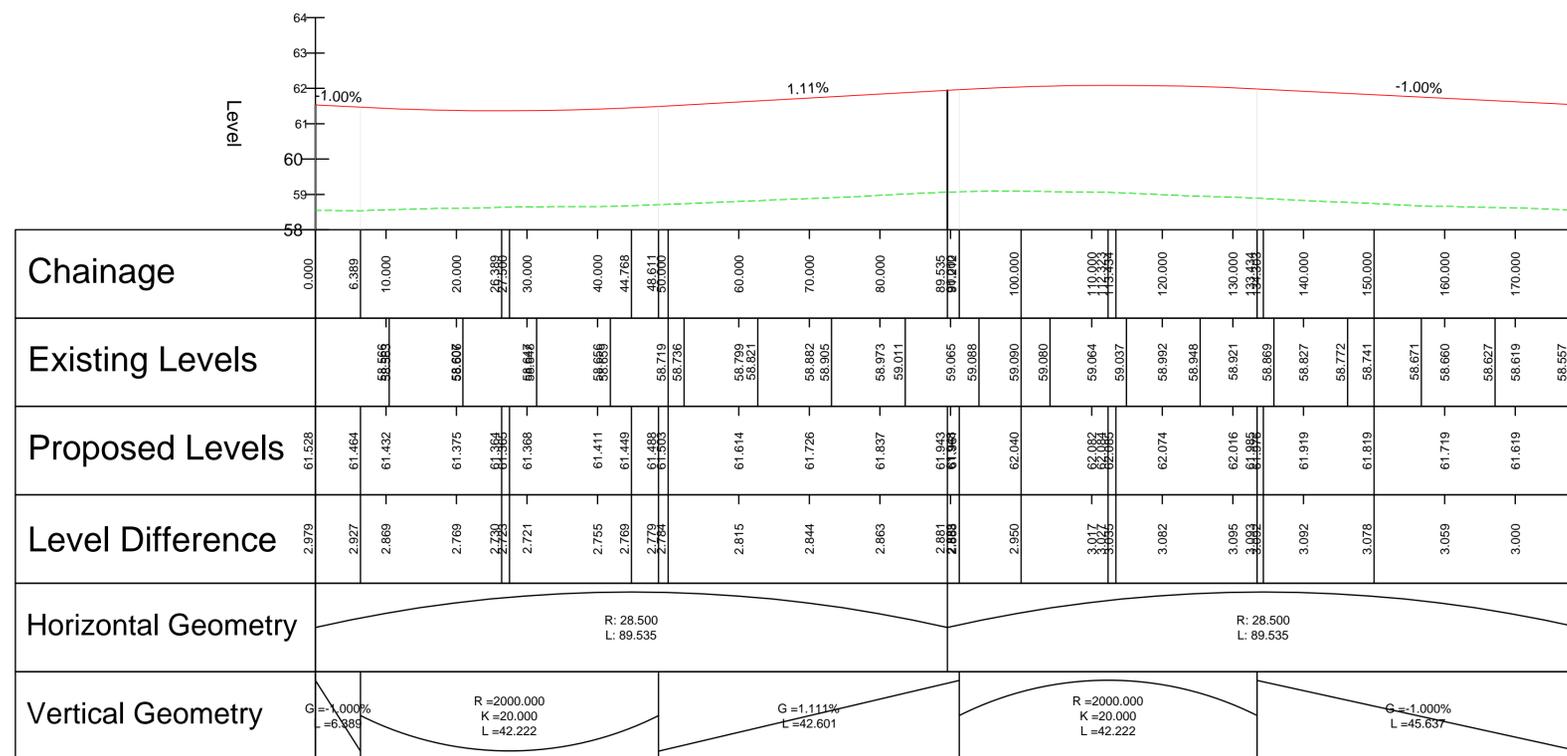
NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

WILLEN ROUNDABOUT- LONGSECTION - CH 000.000M - CH 179.071M
SCALE: H 1:500,V 1:100. DATUM: 58.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
PO1	12/03/2021	OPL	FIRST ISSUE	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: WILLEN ROUNDABOUT LONG SECTION CH 000.000m - CH 179.071m

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DRAWN: OPL
		DATE: November 20

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-2840

REV: P02

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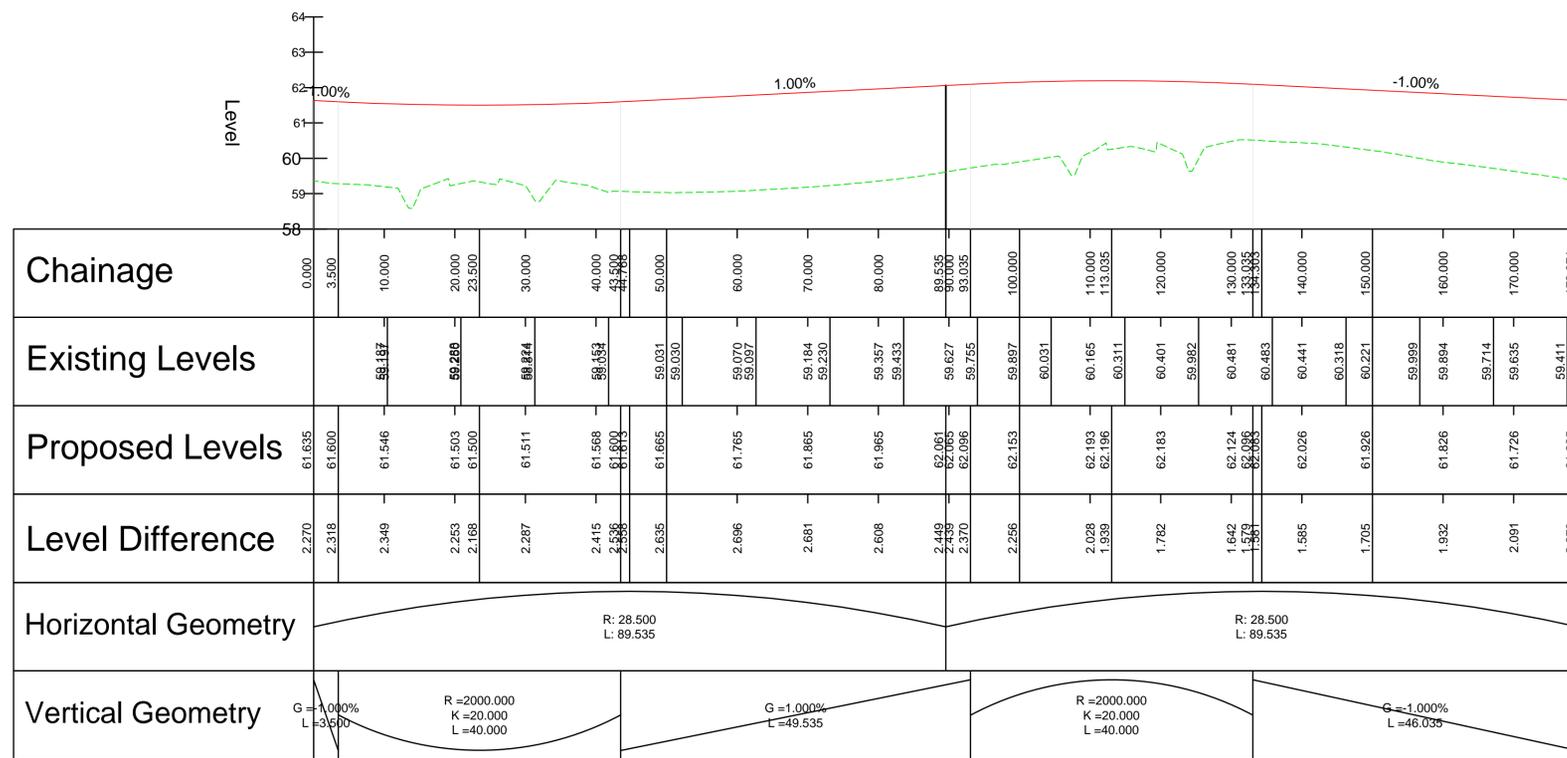
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

**A509 ROUNDABOUT 1 - LONGSECTION -CH 000.000M - CH 179.071M
SCALE: H 1:500,V 1:100. DATUM: 58.000**



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	SWP
P01	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S4 - FOR APPROVAL**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **A509 ROUNDABOUT 1 LONG SECTION
CH 000.000 - CH 179.071**

SCALE @ A1: **AS SHOWN** CHECKED: **ARP** APPROVED: **SAP**

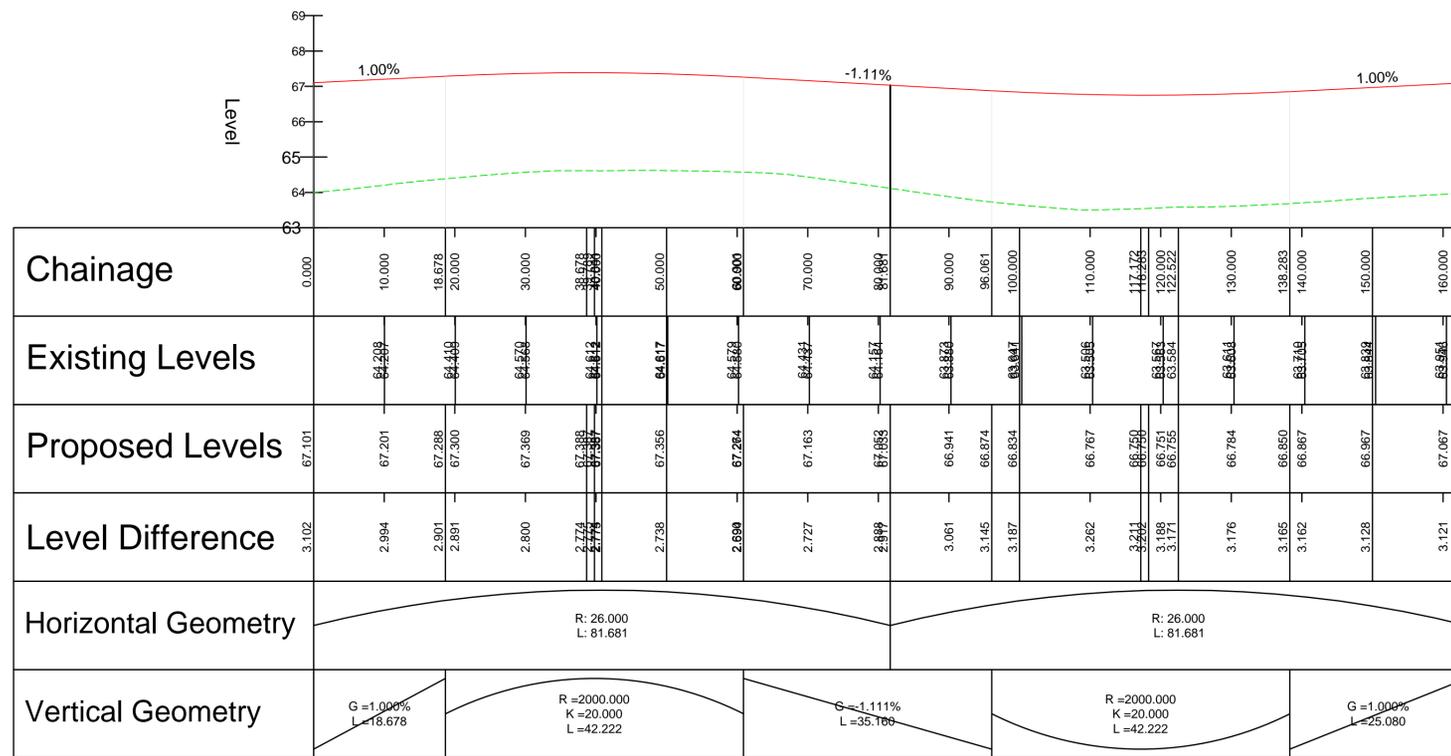
PROJECT NO: **70057521** DESIGNED: **ARP** DRAWN: **OPL** DATE: **November 20**

DRAWING NO: **MKE-WSP-ZZ-ZZ-C-SK-2841** REV: **P02**

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File name: \\UK.VSPGROUP.COM\CENTRAL_DATA\PROJECTS\0057000521 - MKE - PLANNING APPLICATIONS\WPCO CIVIL ENGINEERING\DRAWINGS\MKE-ZZ-C-SK-2842.DWG, printed on 25 March 2021, 15:43:33, by Pearce, Andrew

EASTERN LINK ROUNDABOUT 1 - LONGSECTION - CH 000.000M - CH 163.363M
SCALE: H 1:500, V 1:100. DATUM: 63.000



- NOTES:
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	CLC	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: EASTERN LINK ROUNDABOUT 1
LONG SECTION
CH 000.000m - CH 163.363m

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP
PROJECT NO:	DESIGNED:	DRAWN:
70057521	ARP	OPL
		DATE:
		November 20

DRAWING NO:	REV:
MKE-WSP-ZZ-C-SK-2842	P02

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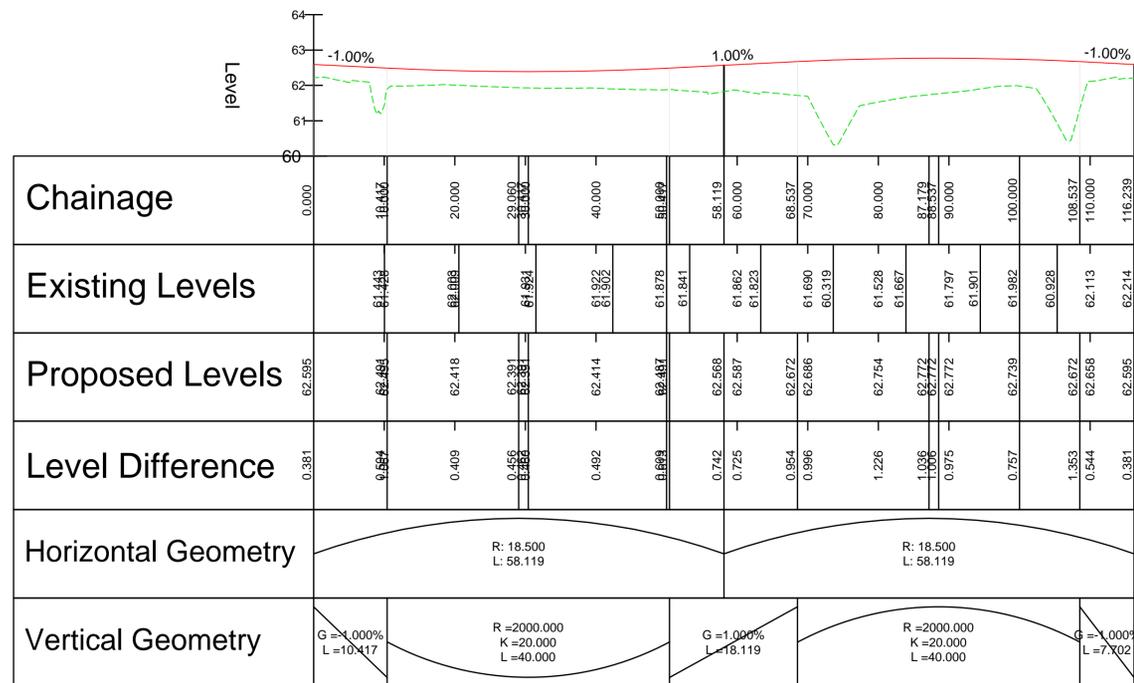
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

A509 ROUNDABOUT 2 - LONGSECTION - CH 000.000M - CH 116.239M
SCALE: H 1:500,V 1:100. DATUM: 60.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	CLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL



CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: A509 ROUNDABOUT 2 LONG SECTION
CH 000.000m - CH 116.239m

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DRAWN: OPL
		DATE: November 20

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-2843

REV: P02

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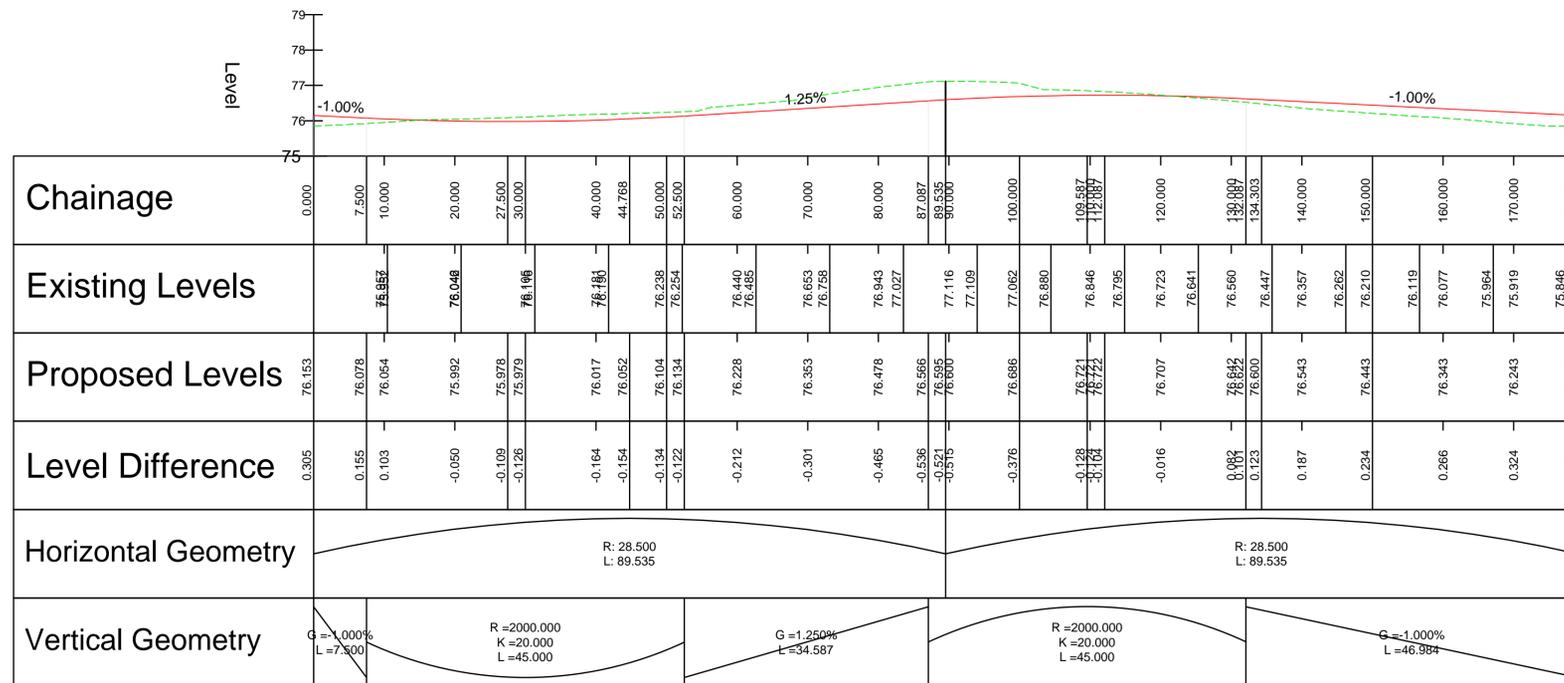
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

EASTERN LINK ROUNDABOUT 2 - LONGSECTION - CH 000.000M - CH 179.071M
SCALE: H 1:500,V 1:100. DATUM: 75.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	26/03/2021	GLC	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S4 - FOR APPROVAL**

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **EASTERN LINK ROUNDABOUT 2
 LONG SECTION
 CH 000.000m - CH 179.071m**

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DATE: November 20

DRAWING NO: **MKE-WSP-ZZ-ZZ-C-SK-2844** REV: **P02**

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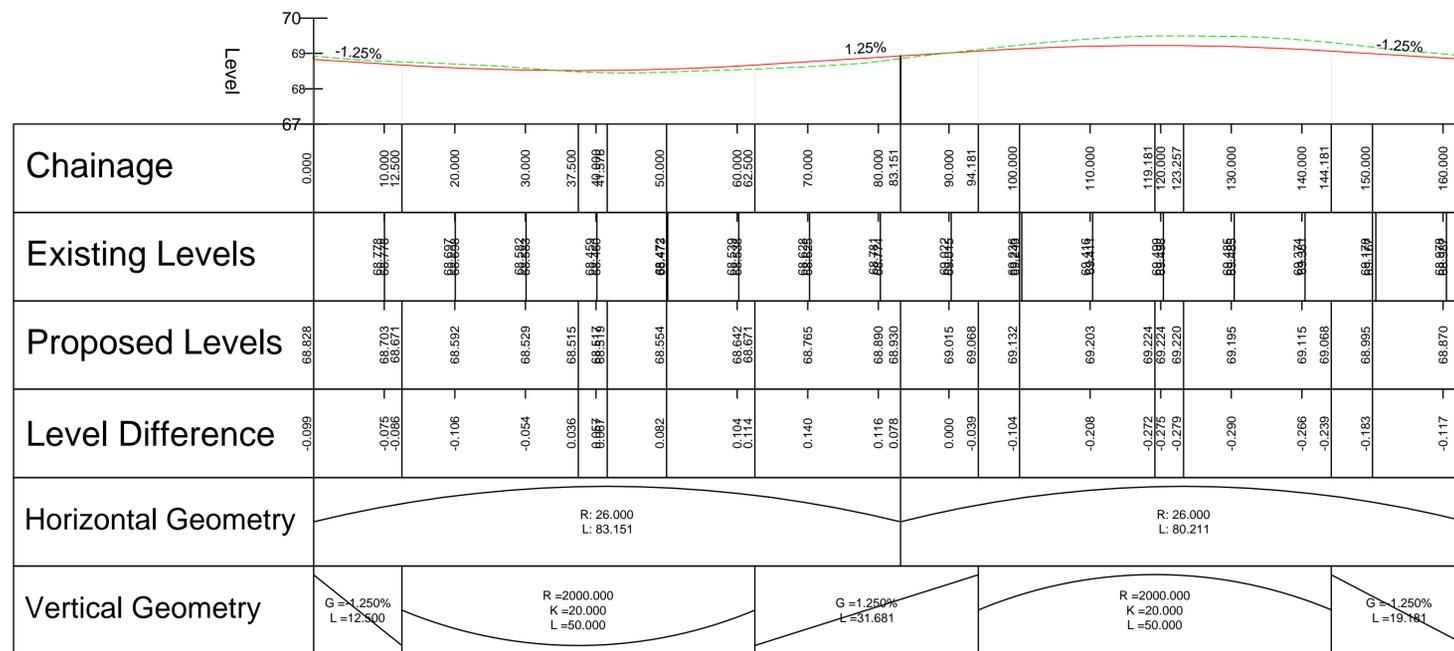
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

CRANFIELD ROUNDABOUT- LONGSECTION - CH 000.000M - CH 163.363M
SCALE: H 1:500,V 1:100. DATUM: 67.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK.

P02	26/03/2021	GLC	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S4 - FOR APPROVAL

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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: CRANFIELD ROUNDABOUT LONG SECTION
CH 000.000m - CH 163.363m

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DRAWN: OPL
		DATE: November 20

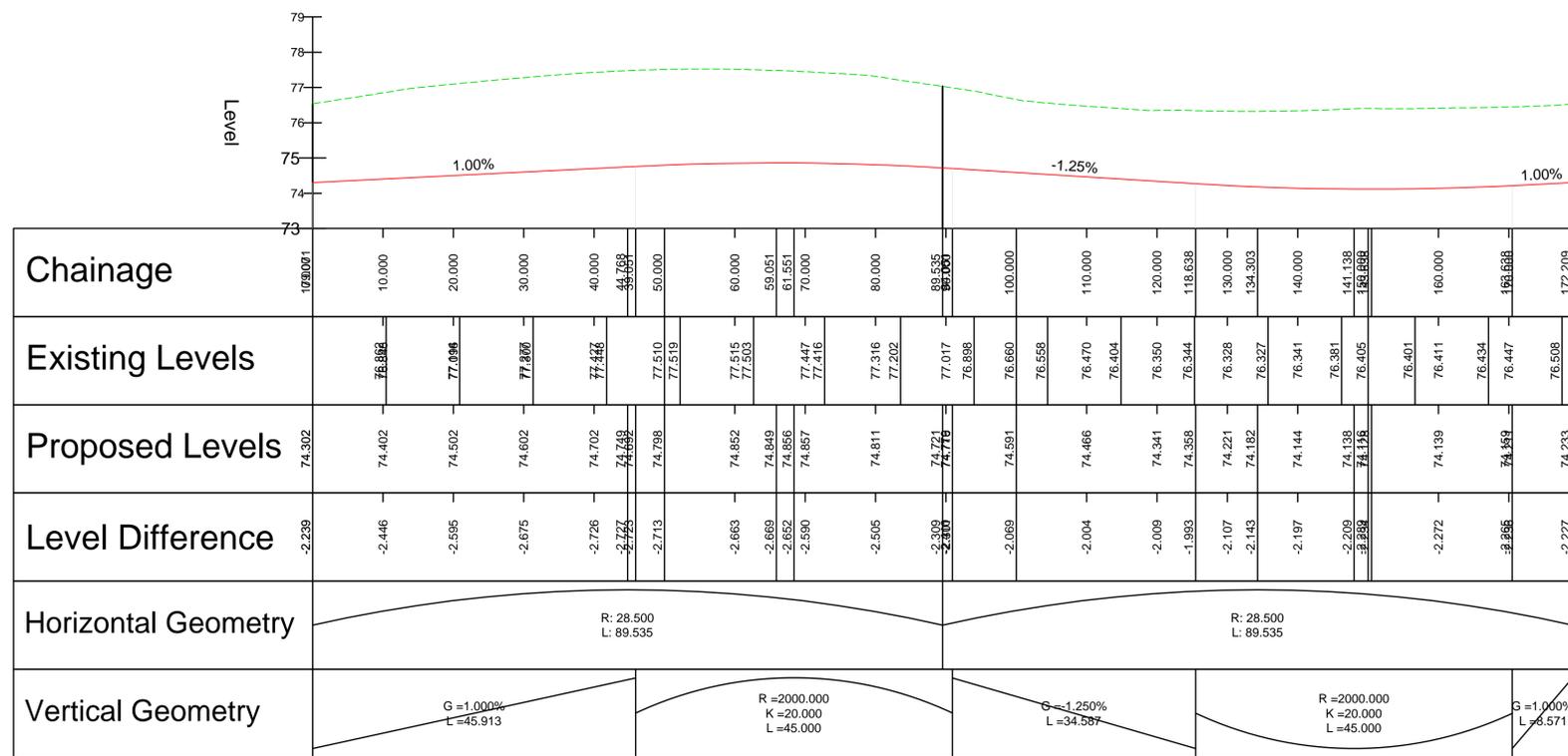
DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-2845

REV: P02

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EASTERN LINK ROUNDABOUT 3 - LONGSECTION - CH 000.000M - CH 179.071M
SCALE: H 1:500, V 1:100. DATUM: 73.000



- NOTES:**
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KEY:

— PROPOSED ROAD ALIGNMENT

- - - TOPOGRAPHICAL SURVEY

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PO2	26/03/2021	OLG	MINOR AMENDMENTS FOR PLANNING	APP	SWP
PO1	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S4 - FOR APPROVAL**

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CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **EASTERN LINK ROUNDABOUT 3
 LONG SECTION
 CH 000.000m - CH 179.071**

SCALE @ A1: AS SHOWN	CHECKED: ARP	APPROVED: SAP
PROJECT NO: 70057521	DESIGNED: ARP	DATE: November 20

DRAWING NO: **MKE-WSP-ZZ-ZZ-C-SK-2846** REV: **P02**

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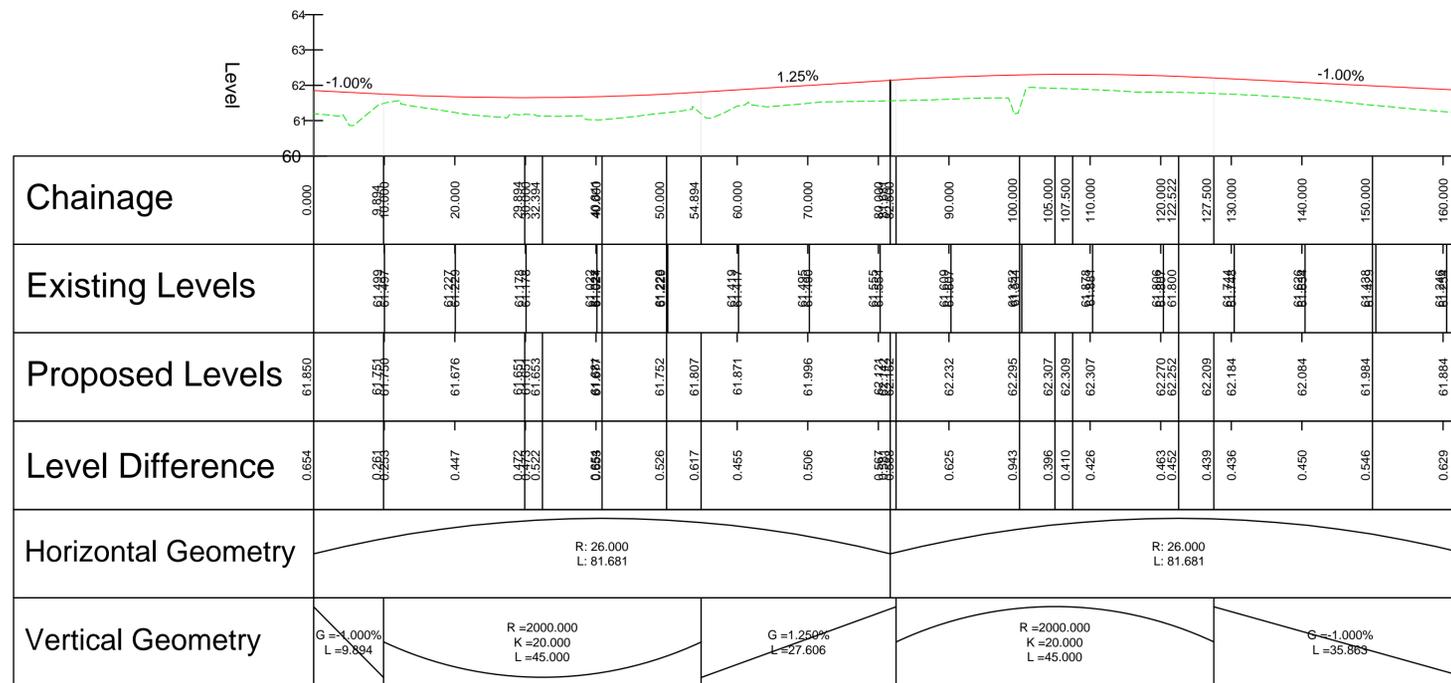
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

EASTERN LINK ROUNDABOUT 4 - LONGSECTION - CH 000.000M - CH 163.363M
SCALE: H 1:500,V 1:100. DATUM: 60.000



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PO2	25/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	OPL	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:	S4 - FOR APPROVAL
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CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: EASTERN LINK ROUNDABOUT 4
LONG SECTION
CH 000.000m - CH 163.363m

SCALE @ A1:	AS SHOWN	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	OPL
				DATE:	November 20

DRAWING NO:	MKE-WSP-ZZ-ZZ-C-SK-2847	REV:	P02
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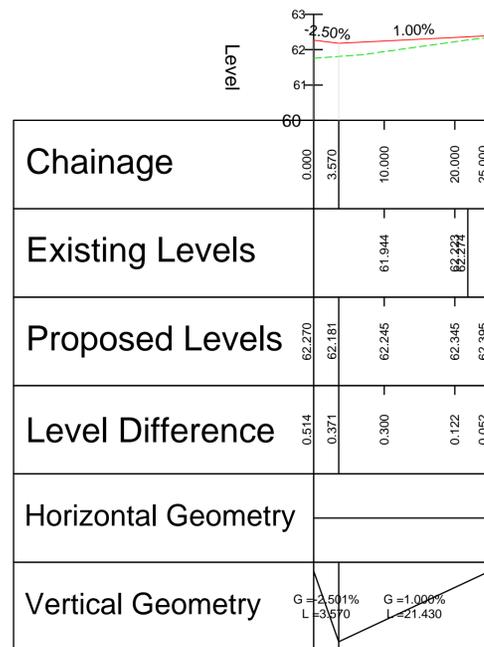
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

PUMPING STATION ACCESS - LONGSECTION - CH 000.000M - CH 25.000M
SCALE: H 1:500,V 1:100. DATUM: 60.000



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PO2	26/03/2021	GLG	MINOR AMENDMENTS FOR PLANNING	APP	SAP
P01	12/03/2021	GLG	ISSUED FOR PLANNING	APP	SAP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **S4 - FOR APPROVAL**



CLIENT: **BERKELEY ST JAMES**

ARCHITECT: **JTP / STEPHEN GEORGE AND PARTNERS**

SITE/PROJECT: **MILTON KEYNES EAST**

TITLE: **PUMPING STATION ACCESS
 LONG SECTION
 CH 000.000m - CH 25.000m**

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	March 21

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2848	P02

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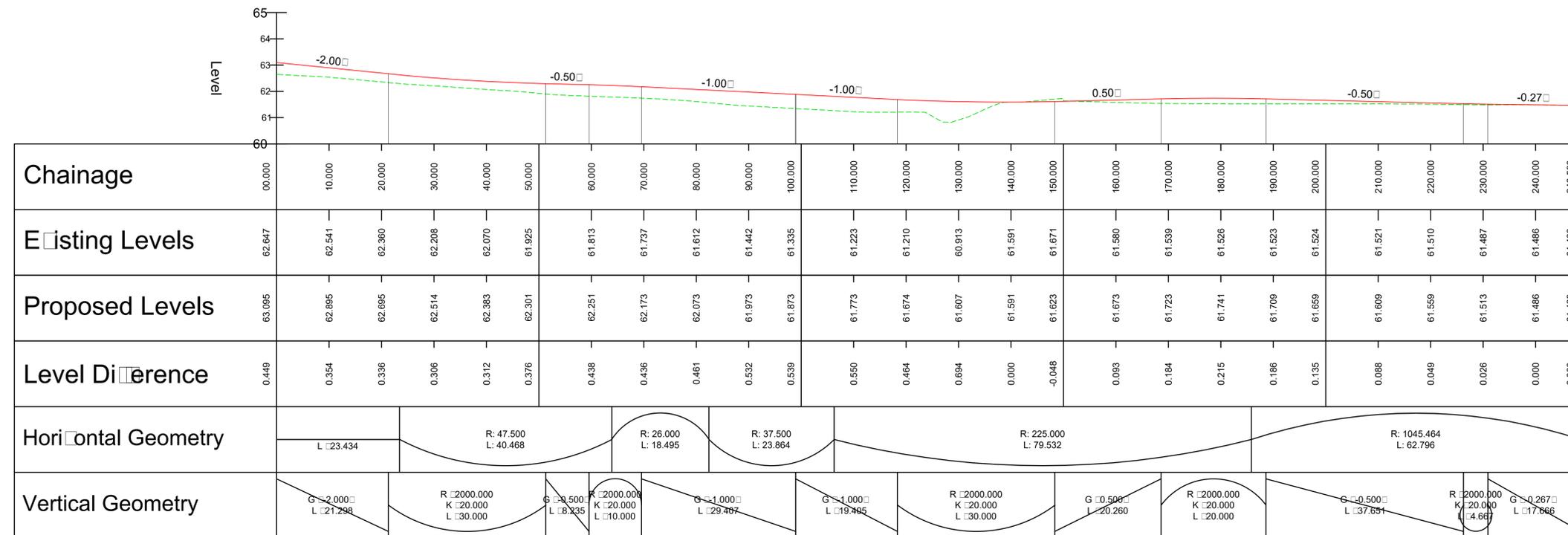
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KEY:

- PROPOSED ROAD ALIGNMENT
- - - TOPOGRAPHICAL SURVEY

LINK 104 - A509 DUAL CARRIAGEWAY - CH 000.000M - CH 248.590M
SCALE: H 1:500,V 1:100. DATUM: 60.000



UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK.

PO1	26/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - OR PPROJ

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wsp.com

CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

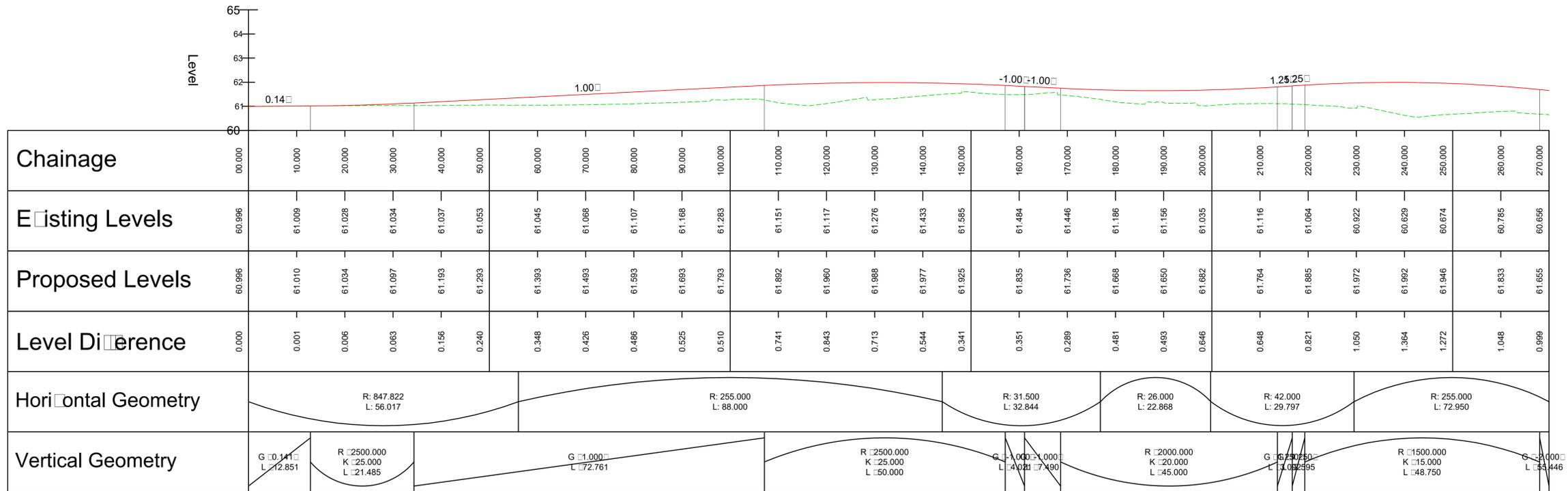
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LONG SECTION
CH 000.000m - CH 248.590m

SCALE @ A1: AS SHOWN
DESIGNED: ARP
DRAWN: GLG
DATE: March 21

DRAWING No: MKE-WSP-ZZ-ZZ-C-SK-2849
REV: P01

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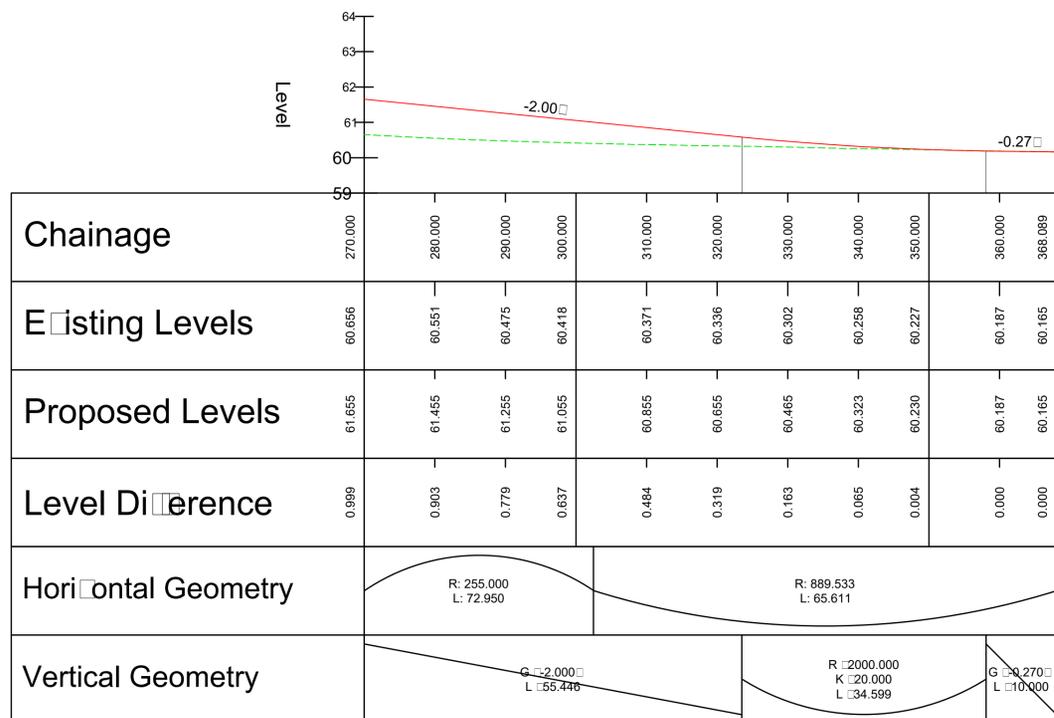
A509 DUAL CARRIAGEWAY - CH 000.000M - CH 270.000M
SCALE: H 1:500, V 1:100. DATUM: 60.000



- NOTES:
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KEY:
 PROPOSED ROAD ALIGNMENT
 TOPOGRAPHICAL SURVEY

A509 DUAL CARRIAGEWAY - CH 270.000M - CH 368.089M
SCALE: H 1:500, V 1:100. DATUM: 59.000



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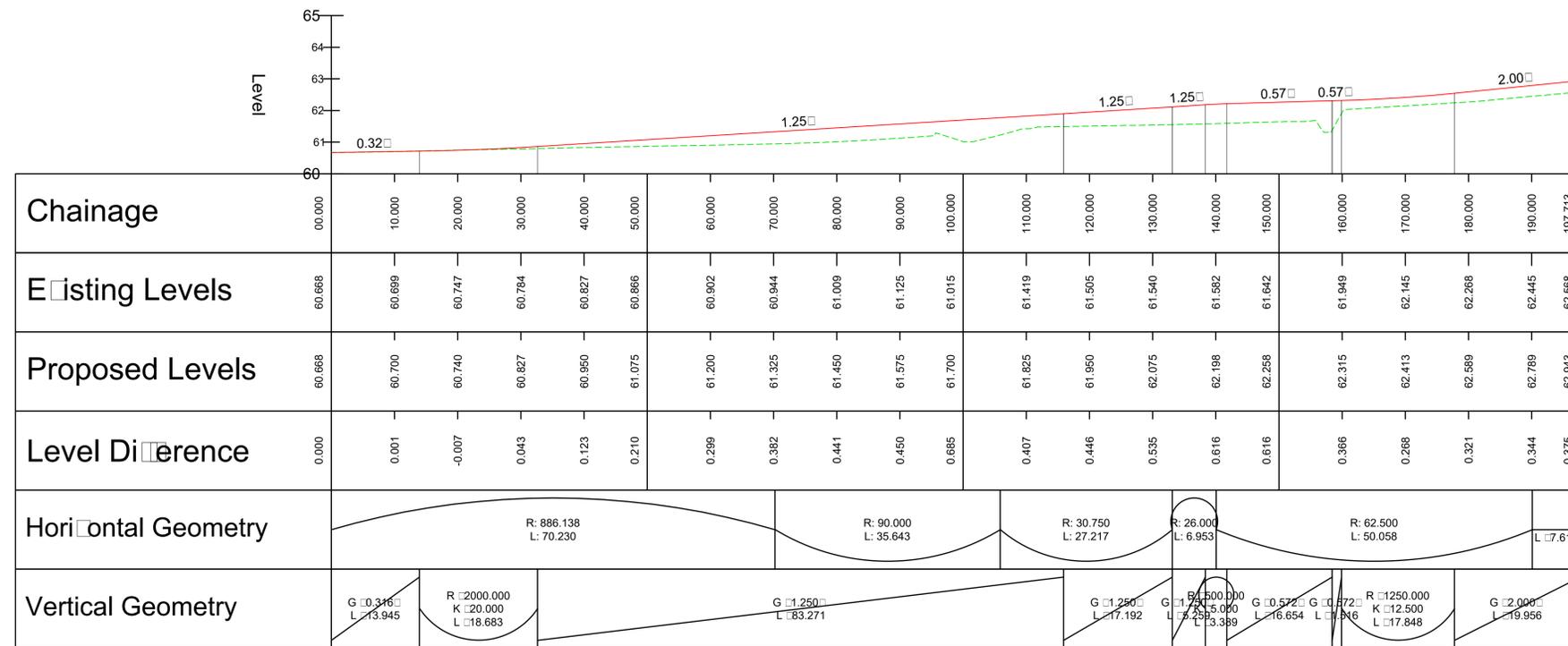
PO1	26/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: Si - OR PPROJ					
 Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK T+ 44 (0) 2380 101 700 wsp.com					
CLIENT: BERKELEY ST JAMES					
ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS					
SITE/PROJECT: MILTON KEYNES EAST					
TITLE: A509 DUAL CARRIAGEWAY LONG SECTION CH 000.000m - CH 368.089m					
SCALE @ AT:	AS SHOWN	CHECKED:	ARP	APPROVED:	SAP
PROJECT NO:	70057521	DESIGNED:	ARP	DRAWN:	GLG
				DATE:	March 21
DRAWING No:	MKE-WSP-ZZ-ZZ-C-SK-2850				REV:
					P01
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- NOTES:**
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM NEWLYN (AOD).
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KEY:

	PROPOSED ROAD ALIGNMENT
	TOPOGRAPHICAL SURVEY

A509 DUAL CARRIAGEWAY - LINK 104 - CH 0.000M - 197.713M
SCALE: H 1:500,V 1:100. DATUM: 60.000



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POP	26/03/2021	GLG	ISSUED FOR PLANNING	A.P.	SWP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: SI - [] OR [] PPRO [] []



Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK
T+ 44 (0) 2380 101 700
wsp.com

CLIENT: BERKELEY ST JAMES

ARCHITECT: JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: A509 DUAL CARRIAGEWAY - LINK 104
LONG SECTION
CH 000.000m - CH 197.713m

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	ARP	SAP

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	ARP	GLG	March 21

DRAWING NO:	REV:
MKE-WSP-ZZ-ZZ-C-SK-2851	P01

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NOTES:

- All dimensions in mm
- All measurements ± 1 mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipe
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 200mm thick well compacted Class 6A selected well graded granular material.
 Manual contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).
 Sit the headwall level or with a slight fall from pipe to spill mouth.

Handling

- A. Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- B. All lifting points shall be used as specified below
- C. Unit to be lifted as per lifting diagram

Concrete

- A. Mix: Self-compacting DC4/DS4 M10
- B. Lifting strength based on 2 cubes = 20N/mm²
- C. Characteristic 28 day cube strength = 50N/mm²
- D. Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- A. Reinforcement to BS EN 13369
- B. Scheduling, dimensioning, bending & cutting to BS8666
- C. Cage to be machine tied with steel wire

Manufacture

- A. Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
- B. Tolerances to BS EN 13369 clause 4.3.1.1
- C. Finishing:

Class	Top	Sides	Base	Rear of back wall
	A	A	A	Levelled

- D. Marking: Units shall be indelibly marked to show:

- Mould reference code
- De-mould date
- Job reference number & unique product number
- Unit weight (kg)

Design

- A. Concrete design to EC2
- B. Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- C. Units are designed to withstand a vertical live load surcharge of 10 kN/m²
- D. Weight of soil = 18 kN/m³
- E. Angle of internal friction = 30 Deg.
- F. Design Life: 100 years

Min Cover	Cover Bloc. Slab (mm)	Min Cover Slab (mm)	Max Cover Slab (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkali attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- A. Manufacture IAW EN 1090-2 EXC CLASS 1
- B. Material grade is to be: BS EN 10025 S275
- C. Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- D. All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- E. Ensure vertical flats are fully welded both sides where possible.
- F. All sharp edges and burrs are to be removed.
- G. Remove all weld splatter.
- H. Holes by punching are permitted with reaming.
- I. Galvanising is carried out after fabrication to BS EN:ISO 1461

Handrail Specification

- A. Kee Klamp® Galvanised Slab 8 Fittings
- B. Slab 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- C. 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- D. Other design loads available on request
- E. GRP/FRP Handrails also available

REV NO	DATE	DESCRIPTION
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DRAWING TITLE / PROJECT:

SFA10B Headwall
 SFA1 450 Outfall Safety Grille

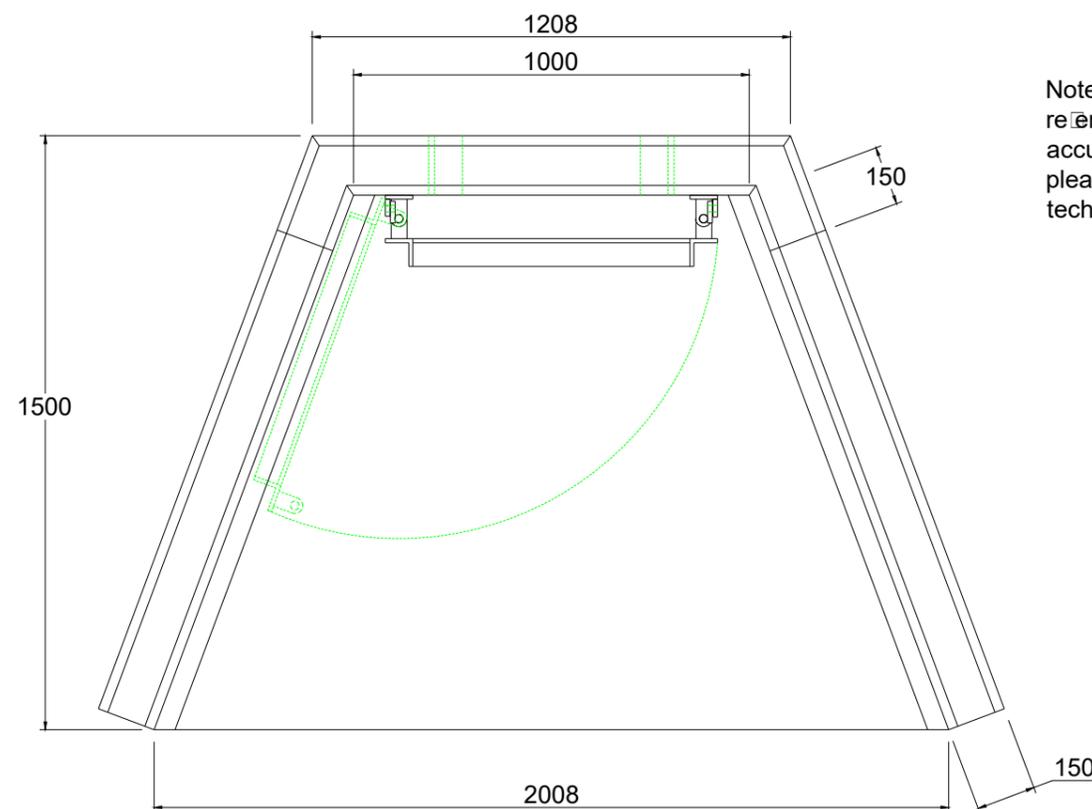
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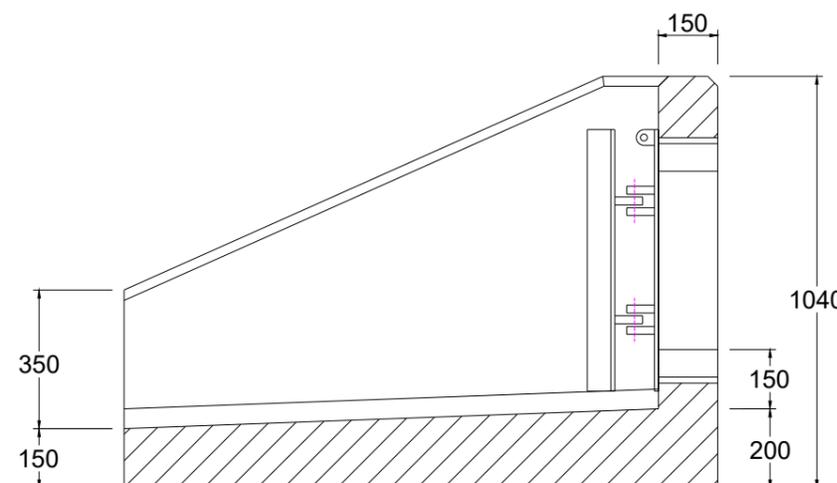
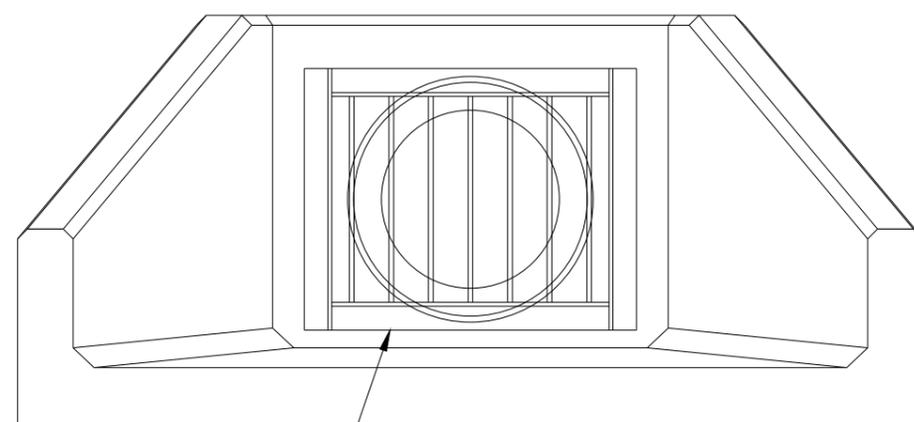
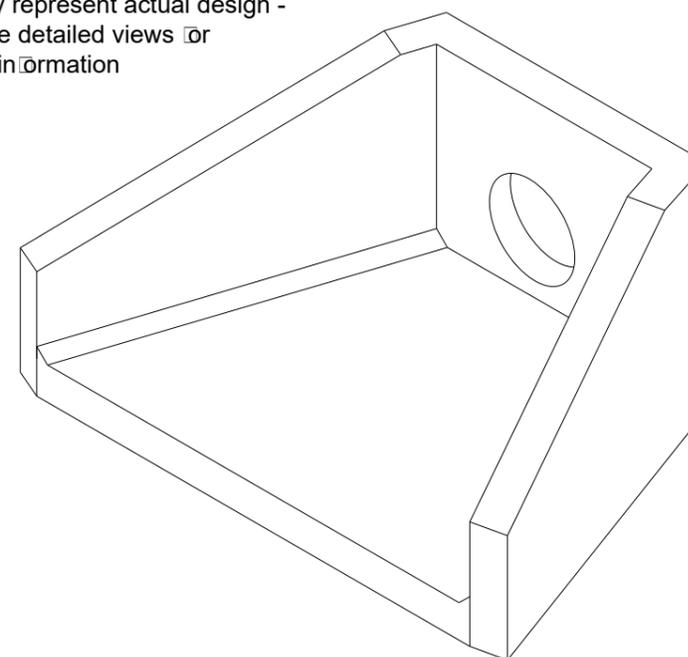
HEADWALL WEIGHT:	TOE WEIGHT:
2140 kg	N/A

PRODUCT NAME:
SFA10B

DRAWING No:



Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 450**
1. In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 2. Material Grade is to be: BS EN 10025 S275
 3. All mild steel to be hot dipped galvanised after fabrication
 4. Galvanising to BS EN: 1461
 5. Welding to BS EN 1011-2:2001
 6. Hinged on one side with padlock facility
 7. Weight Approx 55kg

DO NOT SCALE DRAWING

NOTES:

- All dimensions in mm
- All measurements ± 1mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipework
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 200mm thick well compacted Class 6A selected well graded granular material.
 Manual or contract documents or Highway Works: Volume (MCHW1) specification or Highway Works, Series 600 (Nov.09).
 Sit the headwall level or with a slight fall from pipe to spill mouth.

Handling

- A. Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- B. All lifting points shall be used as specified below
- C. Unit to be lifted as per lifting diagram

Concrete

- A. Mix: Self-compacting DC4/DS4 M10
- B. Lifting strength based on 2 cubes = 20N/mm²
- C. Characteristic 28 day cube strength = 50N/mm²
- D. Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- A. Reinforcement to BS EN 13369
- B. Scheduling, dimensioning, bending & cutting to BS8666
- C. Cage to be machine tied with steel wire

Manufacture

- A. Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
- B. Tolerances to BS EN 13369 clause 4.3.1.1
- C. Finishing:

Class	Top	Sides	Base	Rear of back wall
	A	A	A	A
				Self-Levelled
- D. Marking: Units shall be indelibly marked to show:
 - Mould reference code
 - De-mould date
 - Job reference number & unique product number
 - Unit weight (kg)

Design

- A. Concrete design to EC2
- B. Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- C. Units are designed to withstand a vertical live load surcharge of 10.0N/m²
- D. Weight of soil = 18kN/m³
- E. Angle of internal friction = 30 Deg.
- F. Design Life: 100 years

Min Cover	Cover Bloc. Side (mm)	Min Cover Side (mm)	Max Cover Side (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkali attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- A. Manufacture IAW EN 1090-2 EXC CLASS 1
- B. Material grade is to be: BS EN 10025 S275
- C. Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- D. All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- E. Ensure vertical flats are fully welded both sides where possible.
- F. All sharp edges and burrs are to be removed.
- G. Remove all weld splatter.
- H. Holes by punching are permitted with reaming.
- I. Galvanising is carried out after fabrication to BS EN:ISO 1461

Handrail Specification

- A. Kee Klamp® Galvanised Steel 8 Fittings
- B. Steel 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- C. 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- D. Other design loads available on request
- E. GRP/FRP Handrails also available

REV NO	DATE	DESCRIPTION



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DRAWING TITLE / PROJECT:

SFA10C Headwall
 SFA1 525 Outfall Safety Grille

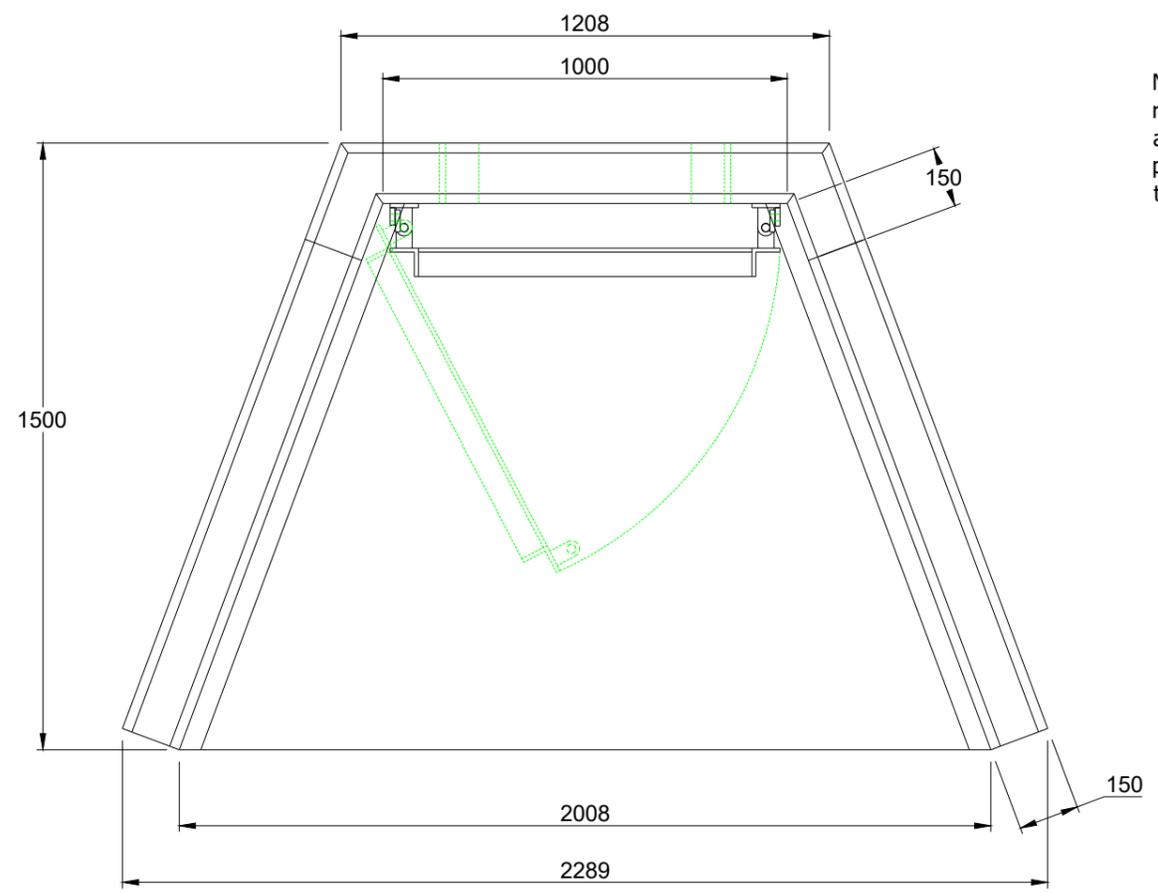
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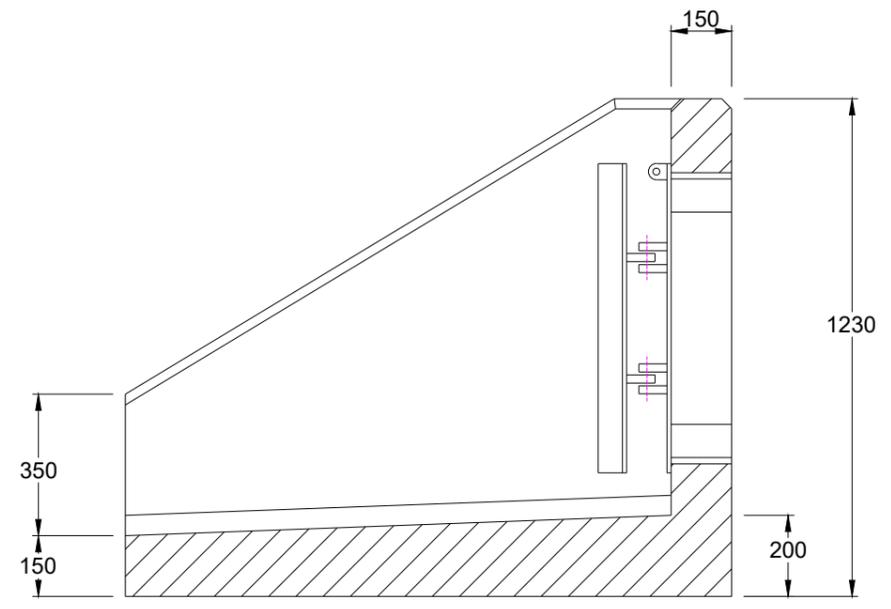
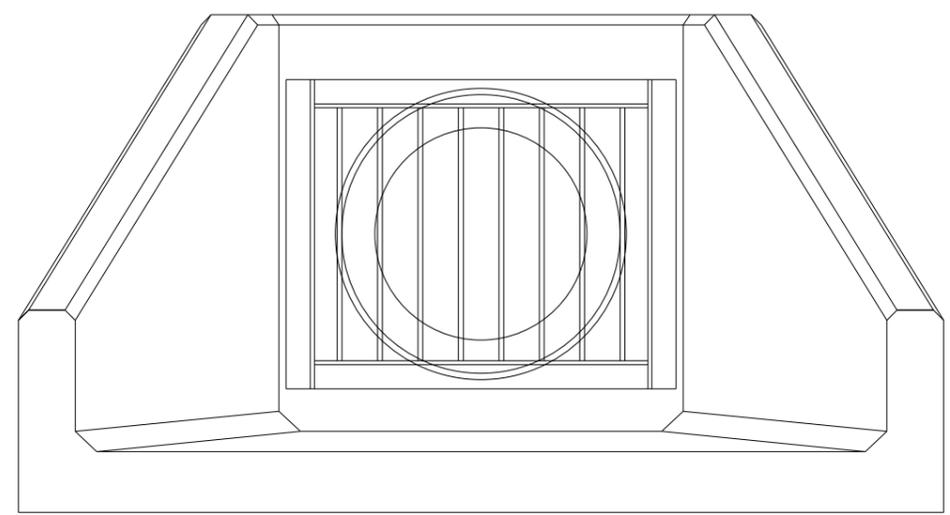
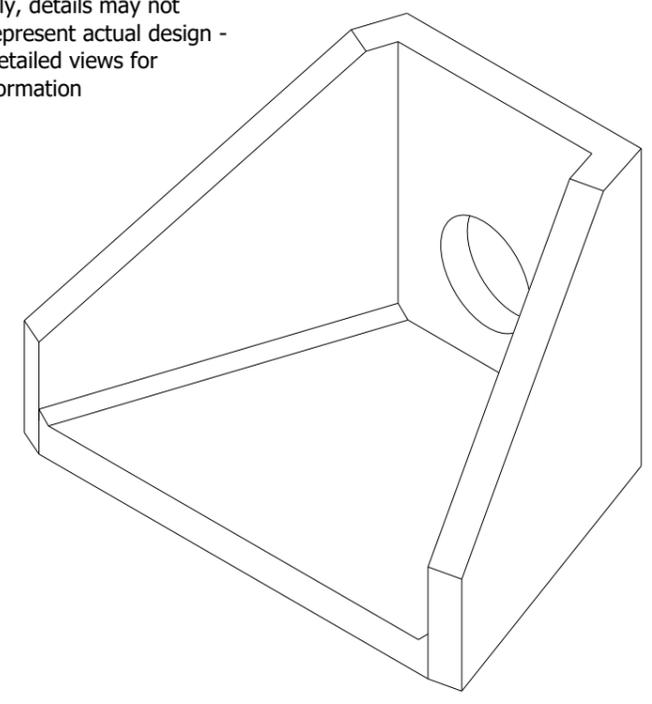
HEADWALL WEIGHT:	TOE WEIGHT:
2380 kg	N/A

PRODUCT NAME: SFA10C

DRAWING No:



Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 525
1. In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 2. Material Grade is to be: BS EN 10025 S275
 3. All mild steel to be hot dipped galvanised after fabrication
 4. Galvanising to BS EN: 1461
 5. Welding to BS EN 1011-2:2001
 6. Hinged on one side with padlock facility
 7. Weight Approx 70kg

DO NOT SCALE DRAWING



NOTES:

- All dimensions in mm
- All measurements ± 1mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipe
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 200mm thick well compacted Class 6A selected well graded granular material.
 Manual contract documents or Highway Works: Volume (MCHW1) specification or Highway Works: Series 600 (Nov.09).
 Sit the headwall level or with a slight fall from pipe to spill mouth.

Handling

- Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- All lifting points shall be used as specified below
- Unit to be lifted as per lifting diagram

Concrete

- Mix: Self-compacting DC4/DS4 M10
- Lifting strength based on 2 cubes = 20N/mm²
- Characteristic 28 day cube strength = 50N/mm²
- Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- Reinforcement to BS EN 13369
- Scheduling, dimensioning, bending & cutting to BS8666
- Cage to be machine tied with steel wire

Manufacture

- Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
- Tolerances to BS EN 13369 clause 4.3.1.1
- Finishing:

Class	Top	Sides	Base	Rear of back wall
A	A	A	A	Levelled
- Marking: Units shall be indelibly marked to show:
 - Mould reference code
 - De-mould date
 - Job reference number & unique product number
 - Unit weight (kg)

Design

- Concrete design to EC2
- Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- Units are designed to withstand a vertical live load surcharge of 10.0 kN/m²
- Weight of soil = 18kN/m³
- Angle of internal friction = 30 Deg.
- Design Life: 100 years

Min Cover	Cover Bloc. Size (mm)	Min Cover Size (mm)	Max Cover Size (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkaline attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- Manufacture IAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- Ensure vertical flats are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
- Holes by punching are permitted with reaming.
- Galvanising is carried out after fabrication to BS EN:ISO 1461

Handrail Specification

- Use Klamp® Galvanised Size 8 Fittings
- Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60
- Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- Other design loads available on request
- GRP/FRP Handrails also available

REV NO	DATE	DESCRIPTION



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 FAX: 01603 488598
 EMAIL: sales@althon.co.uk
 WEBSITE: www.althon.co.uk

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DRAWING TITLE / PROJECT:
SFA10C Headwall
SFA1 600 Outfall Safety Grille

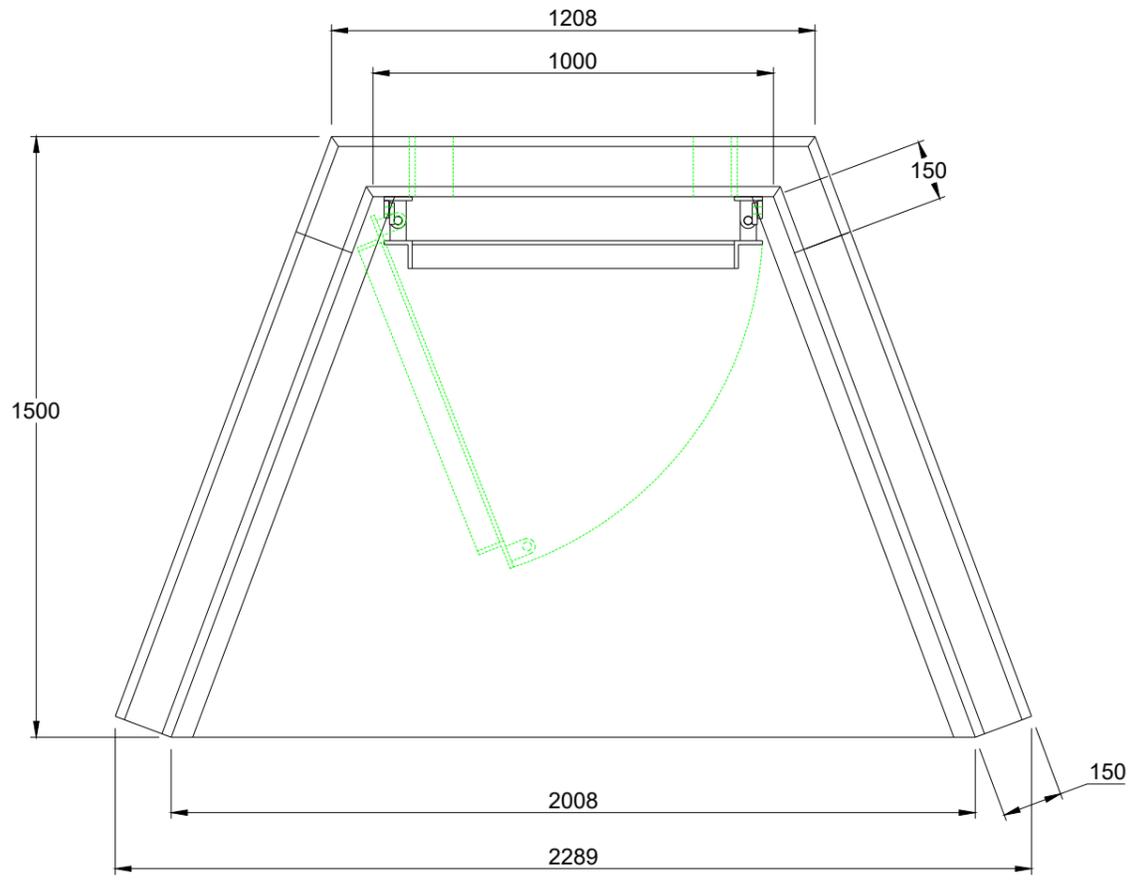
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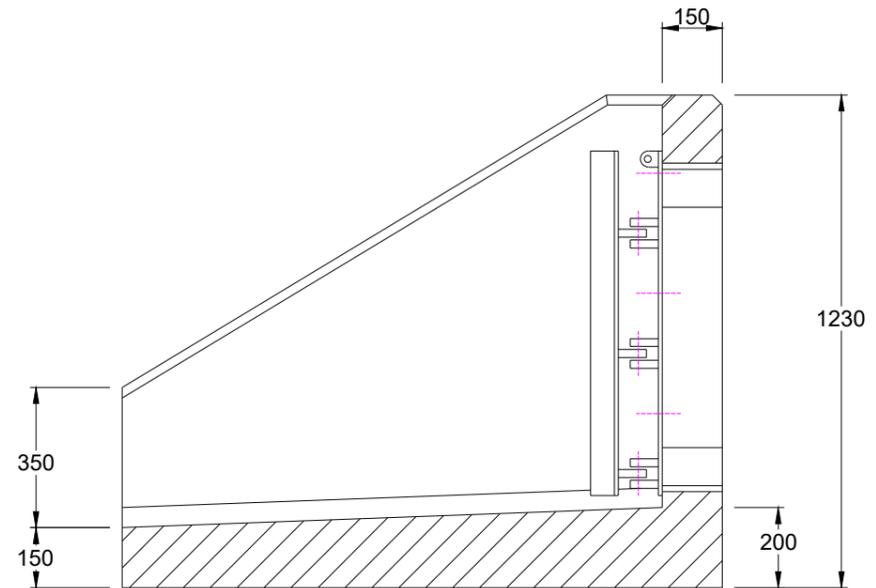
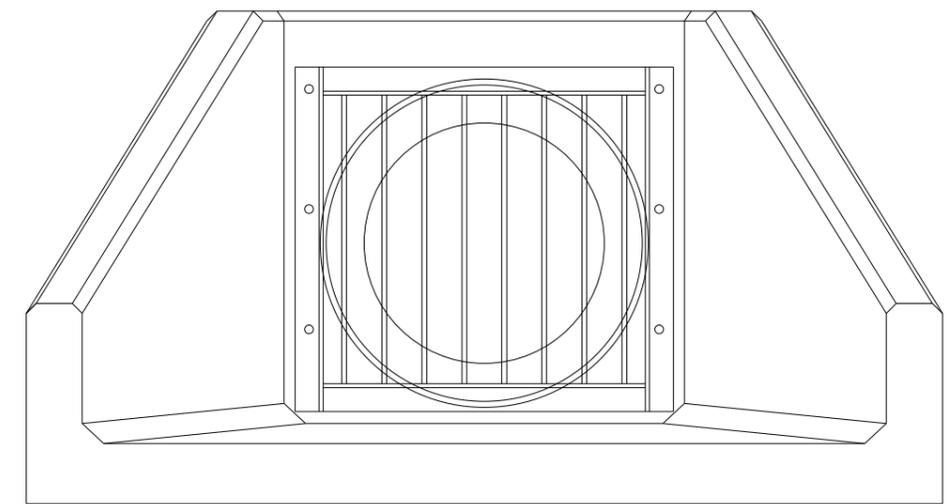
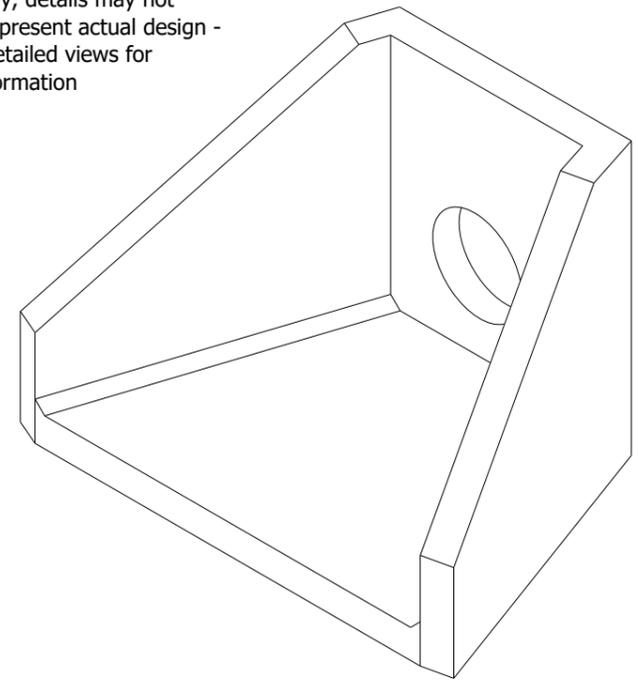
HEADWALL WEIGHT:	TOE WEIGHT:
2380 kg	N/A

PRODUCT NAME: **SFA10C**

DRAWING No:



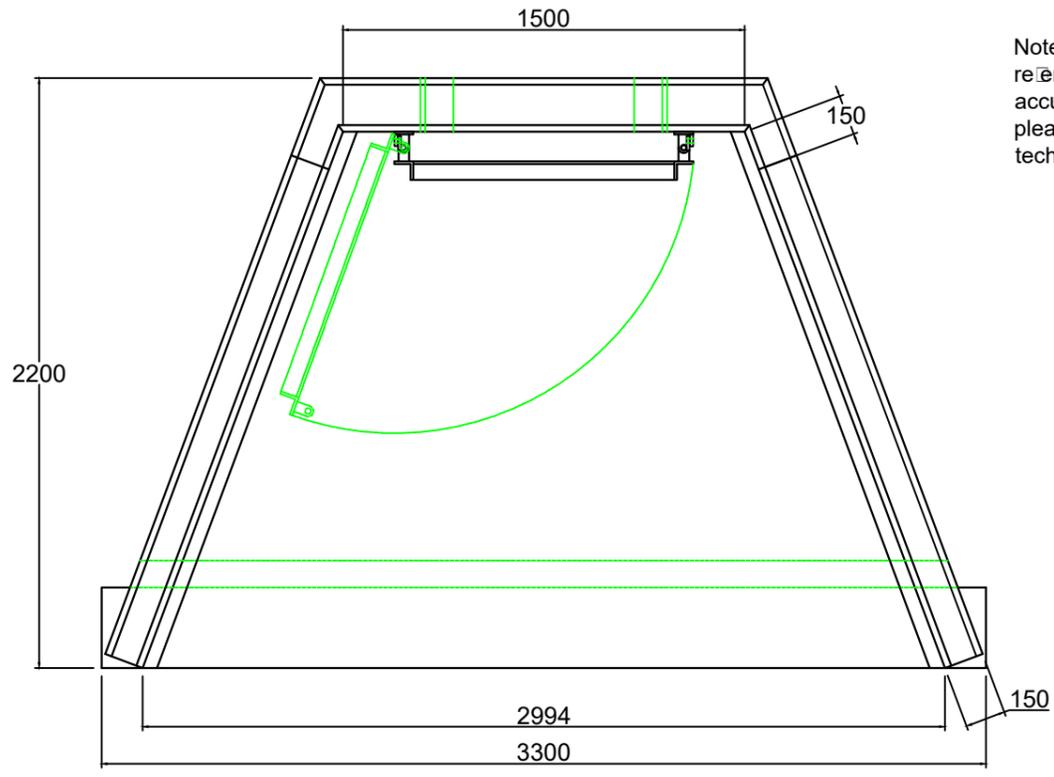
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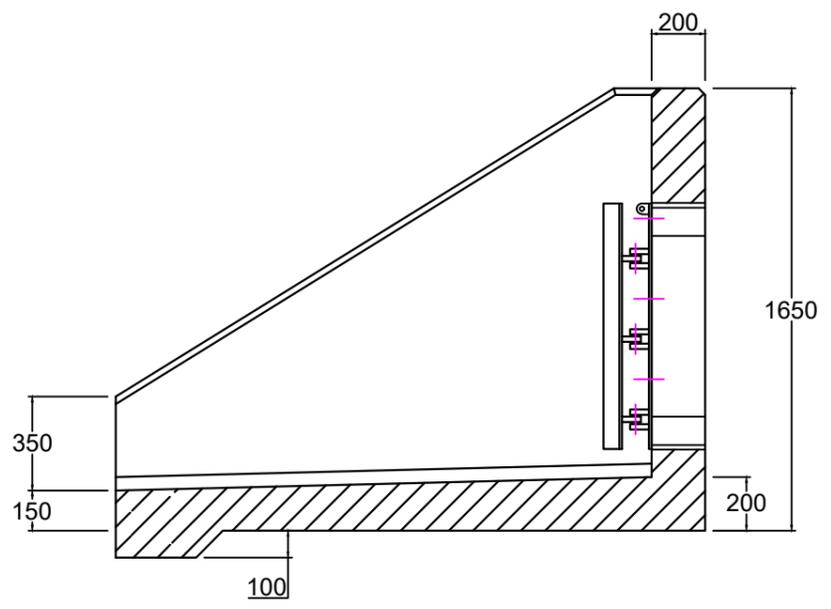
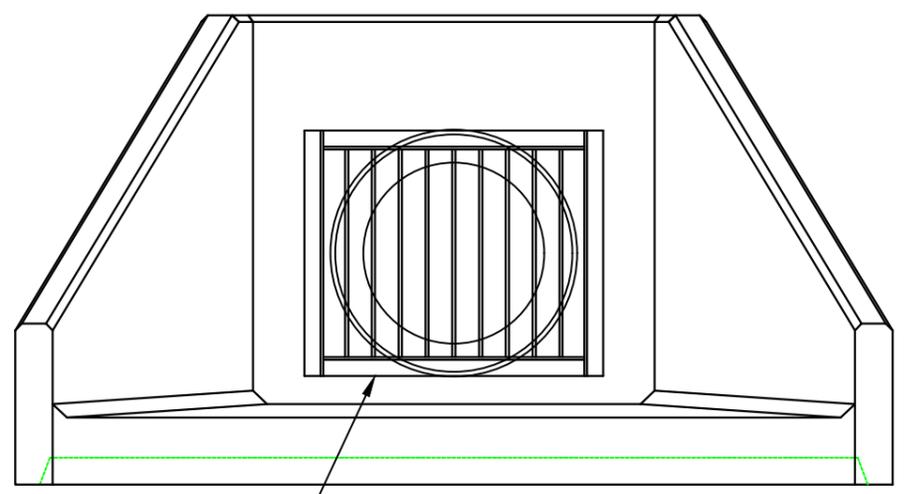
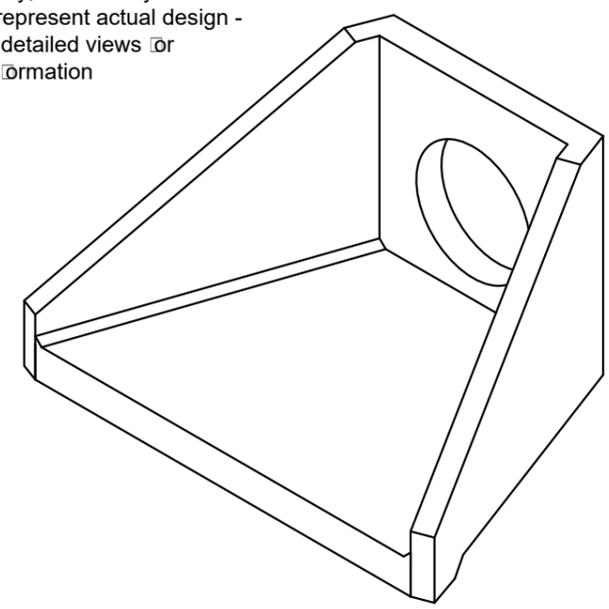
- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 600
- In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 - Material Grade is to be: BS EN 10025 S275
 - All mild steel to be hot dipped galvanised after fabrication
 - Galvanising to BS EN: 1461
 - Welding to BS EN 1011-2:2001
 - Hinged on one side with padlock facility
 - Weight Approx 80kg

DO NOT SCALE DRAWING





Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 675
- In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 - Material Grade is to be: BS EN 10025 S275
 - All mild steel to be hot dipped galvanized after fabrication
 - Galvanizing to BS EN: 1461
 - Welding to BS EN 1011-2:2001
 - Hinged on one side with padlock facility
 - Weight Approx 95kg

DO NOT SCALE DRAWING

NOTES:

- All dimensions in mm
 - All measurements ± 1mm
- Specification Information**
- Opening in back wall cast to suit outside diameter of the pipe
 - Invert level of pipe can be set to your specification
- Headwall Installation**
- Units should be bedded on minimum 200mm thick well compacted Class 6A well graded granular material.
- Manual contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).
- Sit the headwall level or with a slight fall from pipe to spill mouth.

- Handling**
- Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
 - All lifting points shall be used as specified below
 - Unit to be lifted as per lifting diagram

- Concrete**
- Mix: Self-compacting DC4/DS4 M10
 - Lifting strength based on 2 cubes = 20N/mm²
 - Characteristic 28 day cube strength = 50N/mm²
 - Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

- Reinforcement**
- Reinforcement to BS EN 13369
 - Scheduling, dimensioning, bending & cutting to BS8666
 - Cage to be machine tied with steel wire

- Manufacture**
- Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
 - Tolerances to BS EN 13369 clause 4.3.1.1
 - Finishing:

Class	Top	Sides	Base	Rear of back wall
	A	A	A	Self Levelled
All Faces	55	50	50	60

- Marking: Units shall be indelibly marked to show:
 - Mould reference code
 - De-mould date
 - Job reference number & unique product number
 - Unit weight (kg)

- Design**
- Concrete design to EC2
 - Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
 - Units are designed to withstand a vertical live load surcharge of 10kN/m²
 - Weight of soil = 18kN/m³
 - Angle of internal friction 30 Deg.
 - Design Life: 100 years

Min Cover	Cover Bloc. Size (mm)	Min Cover Size (mm)	Max Cover Size (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkali attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

- Fabrication Specification**
- Manufacture IAW EN 1090-2 EXC CLASS 1
 - Material grade is to be: BS EN 10025 S275
 - Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
 - All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
 - Ensure vertical flats are fully welded both sides where possible.
 - All sharp edges and burrs are to be removed.
 - Remove all weld splatter.
 - Holes by punching are permitted with reaming.
 - Galvanising is carried out after fabrication to BS EN:ISO 1461

- Handrail Specification**
- Keel Klamp® Galvanised Size 8 Fittings
 - Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
 - 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
 - Other design loads available on request
 - GRP/FRP Handrails also available

REV NO	DATE	DESCRIPTION
<small>ADDRESS: ALTHON LIMITED VULCAN ROAD SOUTH NORWICH NR6 6AF</small>		
<small>TEL: 01603 488700 FAX: 01603 488598 EMAIL: sales@althon.co.uk WEBSITE: www.althon.co.uk</small>		
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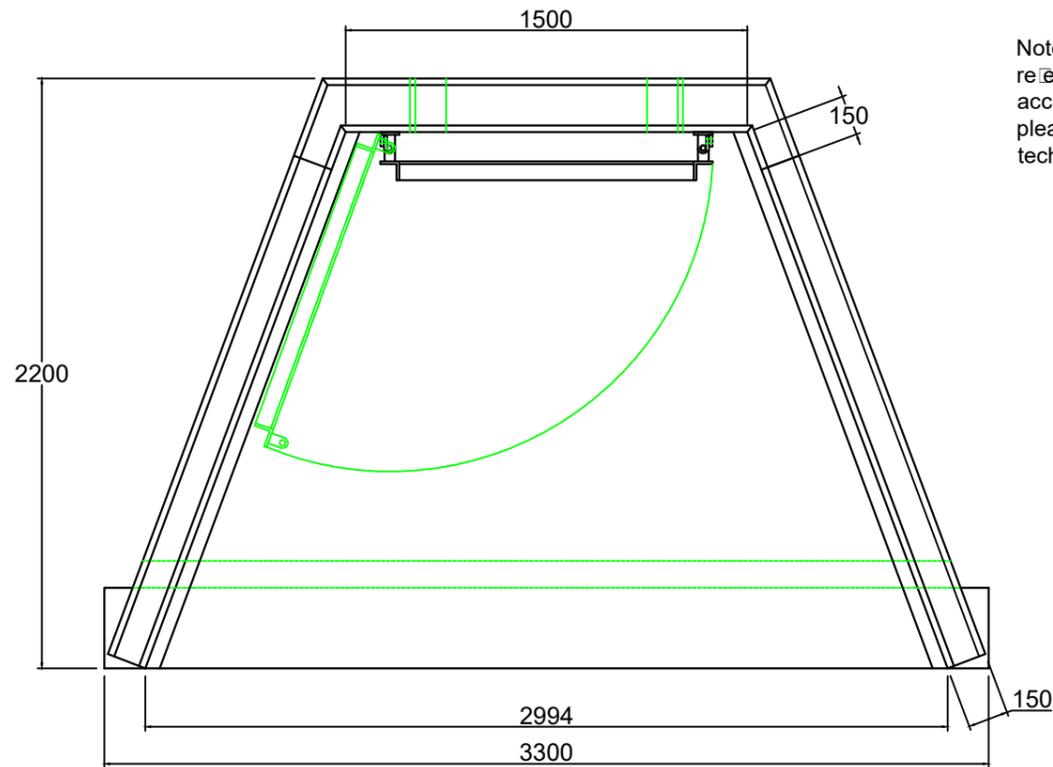
DRAWING TITLE / PROJECT:

SFA15B Headwall
SFA1 675 Outfall Safety Grille

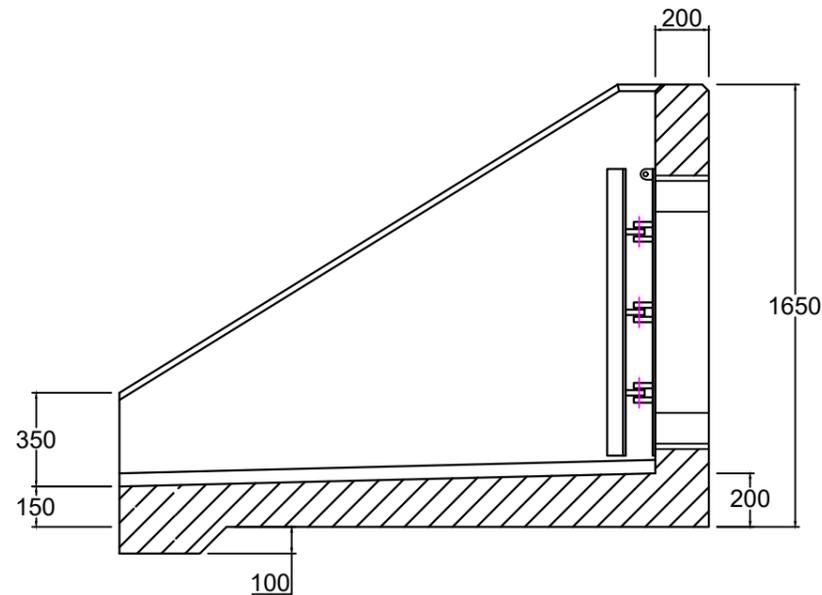
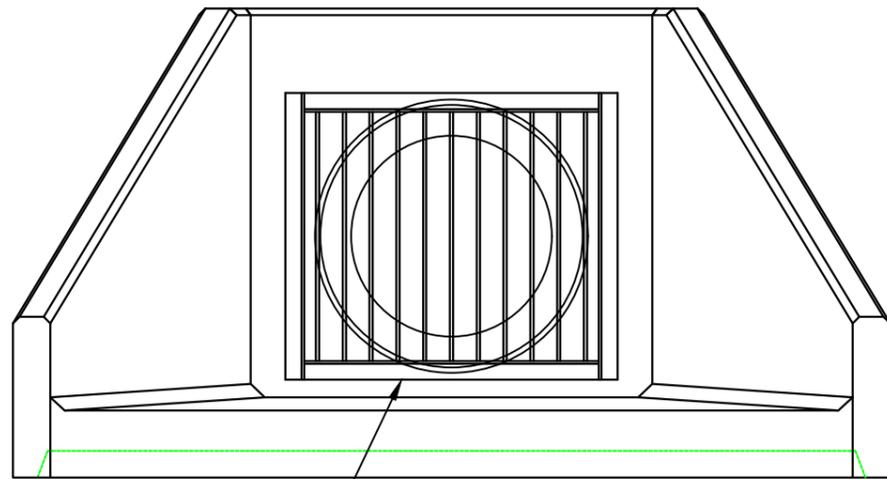
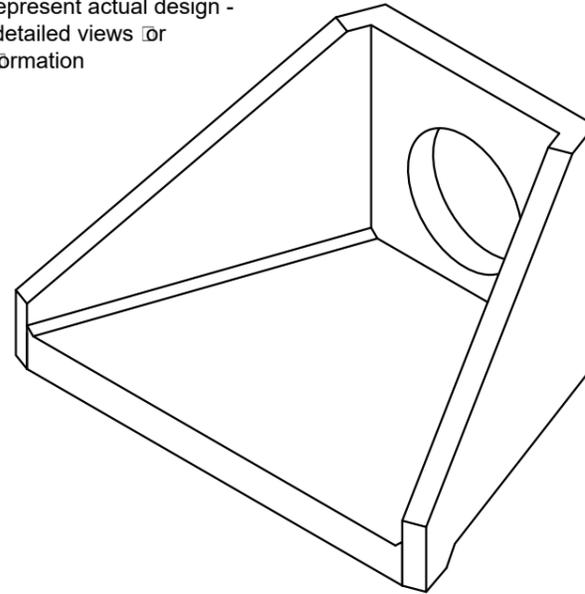
CLIENT:

SCALE: NTS	PAPER: A3	SHEET NO: 01 OF 01	DATE: 25 - 09 - 18
HEADWALL WEIGHT: 5210kg		TOE WEIGHT: N/A	
PRODUCT NAME: SFA15B			
DRAWING No:			





Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views or technical information



- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 750
- In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 - Material Grade is to be: BS EN 10025 S275
 - All mild steel to be hot dipped galvanized after fabrication
 - Galvanizing to BS EN: 1461
 - Welding to BS EN 1011-2:2001
 - Hinged on one side with padlock facility
 - Weight Approx 110kg

DO NOT SCALE DRAWING

NOTES:

- All dimensions in mm
- All measurements ± 1 mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipe
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 200mm thick well compacted Class 6A well graded granular material.
Manual contract documents or Highway Works: Volume (MCHW1) specification or Highway Works, Series 600 (Nov.09).
Sit the headwall level or with a slight fall from pipe to spill mouth.

Handling

- Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- All lifting points shall be used as specified below
- Unit to be lifted as per lifting diagram

Concrete

- Mix: Self-compacting DC4/DS4 M10
- Lifting strength based on 2 cubes = 20N/mm²
- Characteristic 28 day cube strength = 50N/mm²
- Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- Reinforcement to BS EN 13369
- Scheduling, dimensioning, bending or cutting to BS8666
- Cage to be machine tied with steel wire

Manufacture

- Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
- Tolerances to BS EN 13369 clause 4.3.1.1
- Finishing:

Class	Top	Sides	Base	Rear of back wall
	A	A	A	Self Levelled
All Faces	55	50	50	60
- Marking: Units shall be indelibly marked to show:
 - Mould reference code
 - De-mould date
 - Job reference number or unique product number
 - Unit weight (kg)

Design

- Concrete design to EC2
- Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- Units are designed to withstand a vertical live load surcharge of 10kN/m²
- Weight of soil = 18kN/m³
- Angle of internal friction 30 Deg.
- Design Life: 100 years

Min Cover	Cover Bloc. Slab (mm)	Min Cover Slab (mm)	Max Cover Slab (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkali attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- Manufacture IAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- All fillet and butt welds to have a minimum throat thickness of 6mm or joints to be fully welded where possible.
- Ensure vertical flats are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
- Holes by punching are permitted with reaming.
- Galvanising is carried out after fabrication to BS EN:ISO 1461

Handrail Specification

- Keel Klamp Galvanised Slab 8 Fittings
- Slab 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 or BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails or Balusters or The Engineering Equipment and Materials Users Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- Other design loads available on request
- GRP/FRP Handrails also available

REV NO	DATE	DESCRIPTION



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DRAWING TITLE / PROJECT:

SFA15B Headwall
SFA1 750 Outfall Safety Grille

CLIENT:

SCALE:	PAPER:	SHEET NO:	DATE:
NTS	A3	01 OF 01	25 - 09 - 18

HEADWALL WEIGHT:	TOE WEIGHT:
5210kg	N/A

PRODUCT NAME:
SFA15B

DRAWING No:



NOTES:

- All dimensions in mm
- All measurements ± 1mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipe
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 200mm thick well compacted Class 6A selected well graded granular material.
 Manual contract documents or Highway Works: Volume (MCHW1) specification or Highway Works, Series 600 (Nov.09).
 Sit the headwall level or with a slight fall from pipe to spill mouth.

Handling

- A. Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- B. All lifting points shall be used as specified below
- C. Unit to be lifted as per lifting diagram

Concrete

- A. Mix: Self-compacting DC4/DS4 M10
- B. Lifting strength based on 2 cubes = 20N/mm²
- C. Characteristic 28 day cube strength = 50N/mm²
- D. Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- A. Reinforcement to BS EN 13369
- B. Scheduling, dimensioning, bending & cutting to BS8666
- C. Cage to be machine tied with steel wire

Manufacture

- A. Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
- B. Tolerances to BS EN 13369 clause 4.3.1.1
- C. Finishing:

Class	Top	Sides	Base	Rear of back wall
	A	A	A	A
				Self-Levelled

- D. Marking: Units shall be indelibly marked to show:

- Mould reference code
- De-mould date
- Job reference number & unique product number
- Unit weight (kg)

Design

- A. Concrete design to EC2
- B. Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- C. Units are designed to withstand a vertical live load surcharge of 10 kN/m²
- D. Weight of soil = 18kN/m³
- E. Angle of internal friction = 30 Deg.
- F. Design Life: 100 years

Min Cover	Cover Bloc. Size (mm)	Min Cover Size (mm)	Max Cover Size (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkali attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- A. Manufacture IAW EN 1090-2 EXC CLASS 1
- B. Material grade is to be: BS EN 10025 S275
- C. Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- D. All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- E. Ensure vertical flats are fully welded both sides where possible.
- F. All sharp edges and burrs are to be removed.
- G. Remove all weld splatter.
- H. Holes by punching are permitted with reaming.
- I. Galvanising is carried out after fabrication to BS EN:ISO 1461

Handrail Specification

- A. Kee Klamp® Galvanised Size 8 Fittings
- B. Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- C. 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- D. Other design loads available on request
- E. GRP/FRP Handrails also available

REV NO	DATE	DESCRIPTION



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DRAWING TITLE / PROJECT:

SFA15B Headwall
 SFA1 825 Outfall Safety Grille

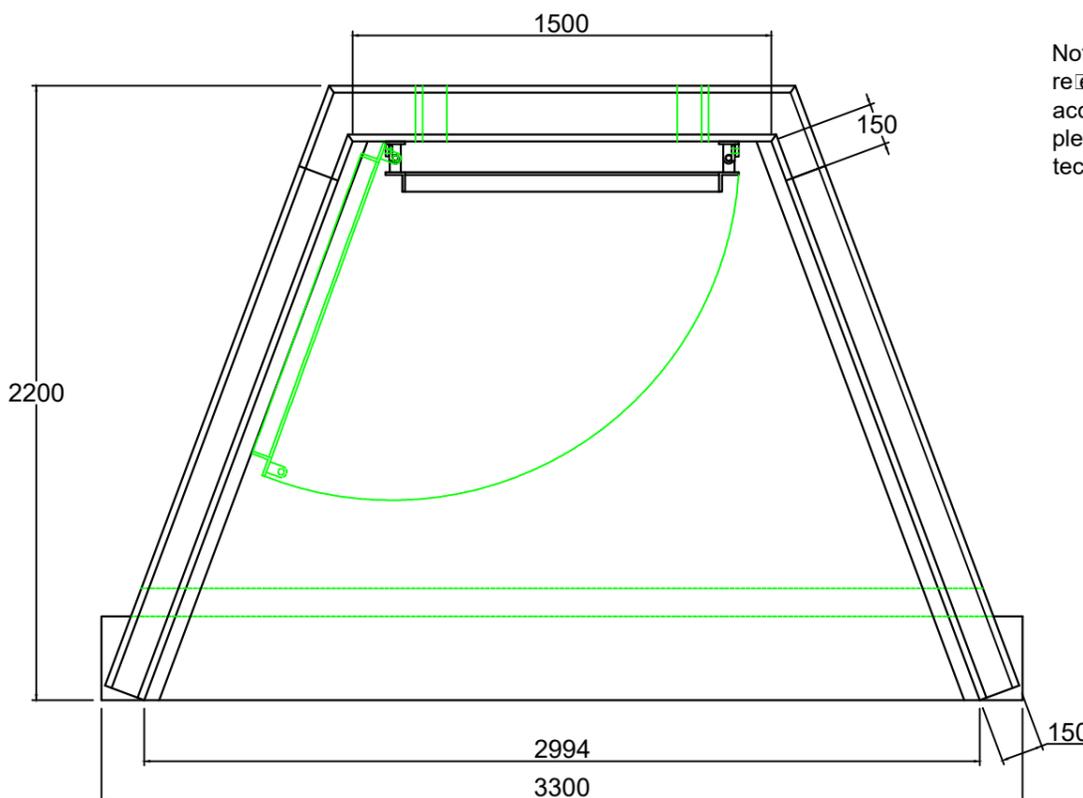
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SCALE:	PAPER:	SHEET NO:	DATE:
NTS	A3	01 OF 01	30 - 01 - 19

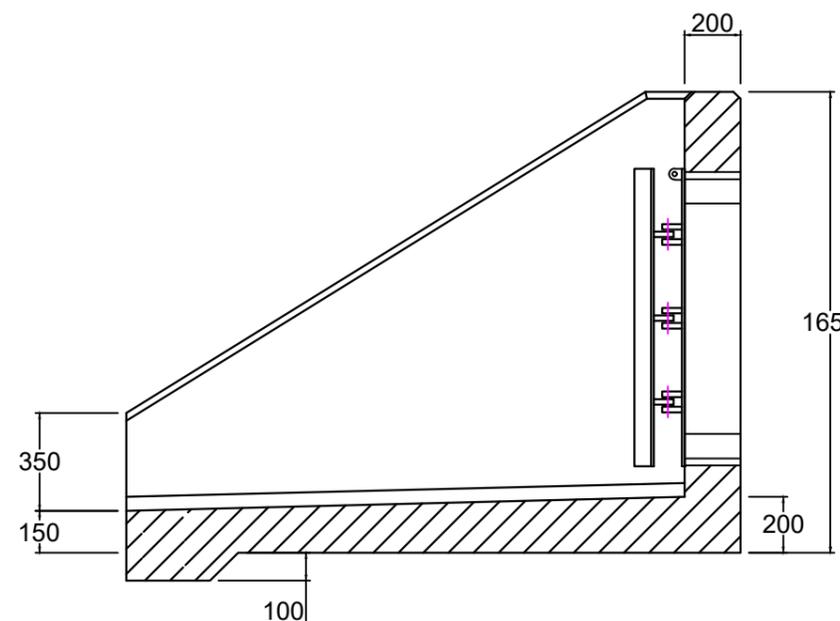
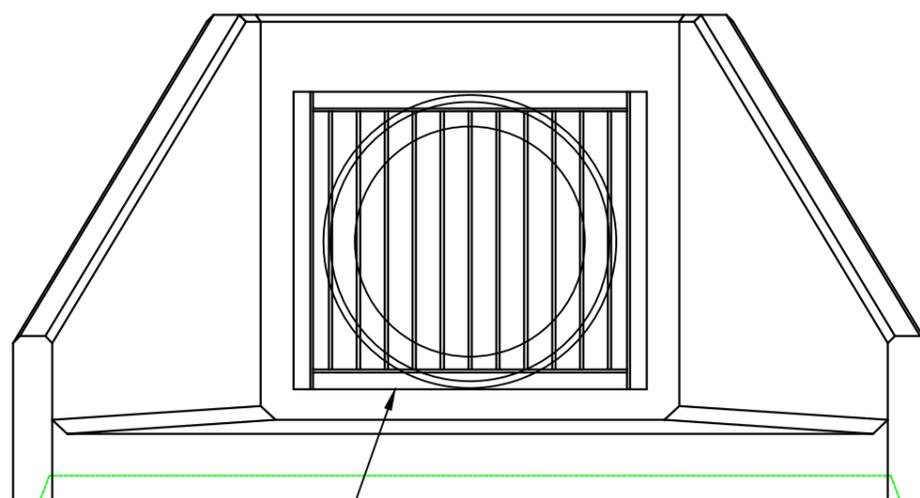
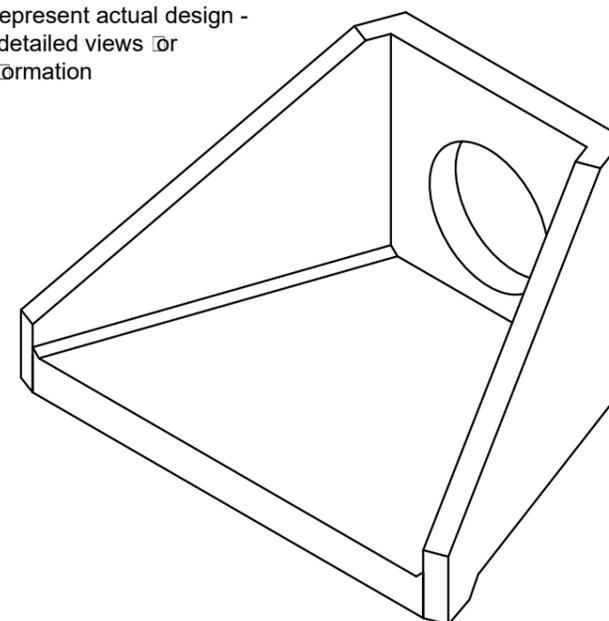
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5210 kg	N/A

PRODUCT NAME: SFA15B

DRAWING No:



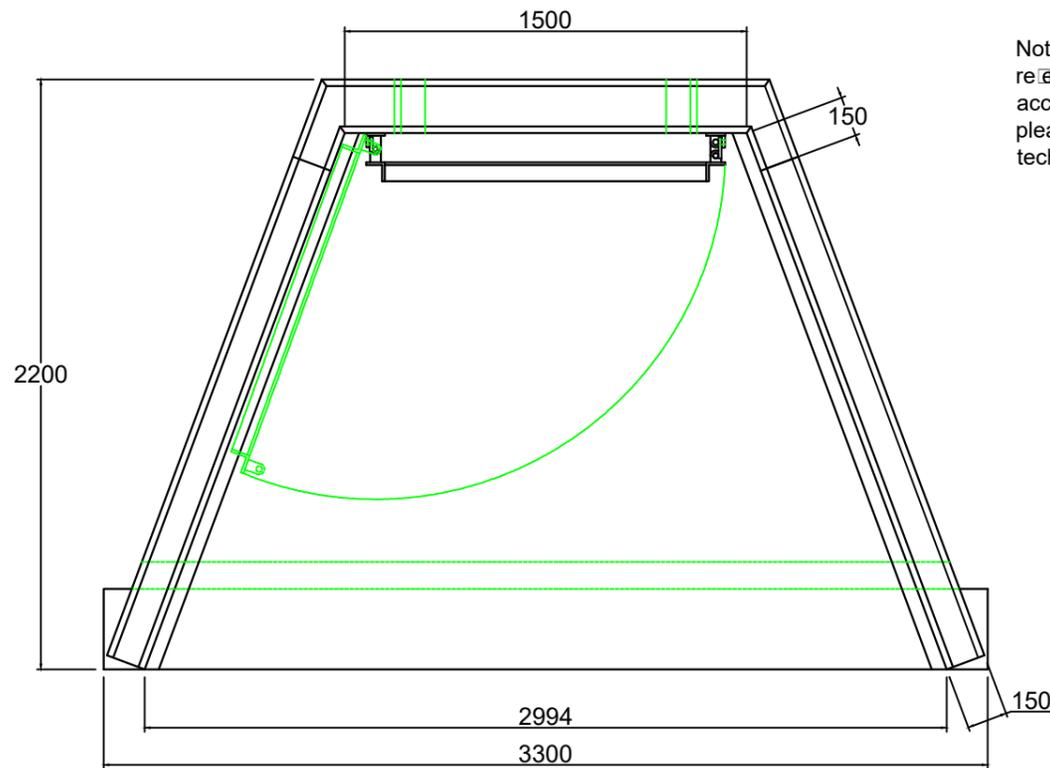
Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



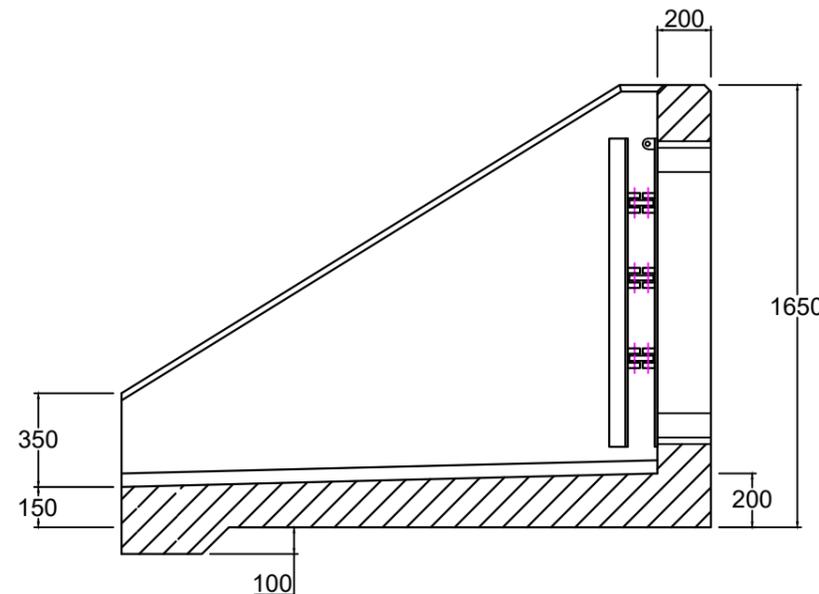
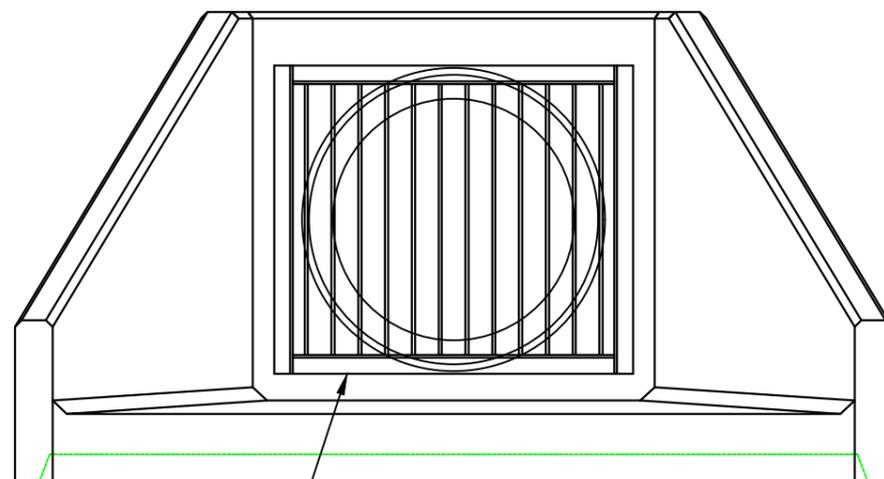
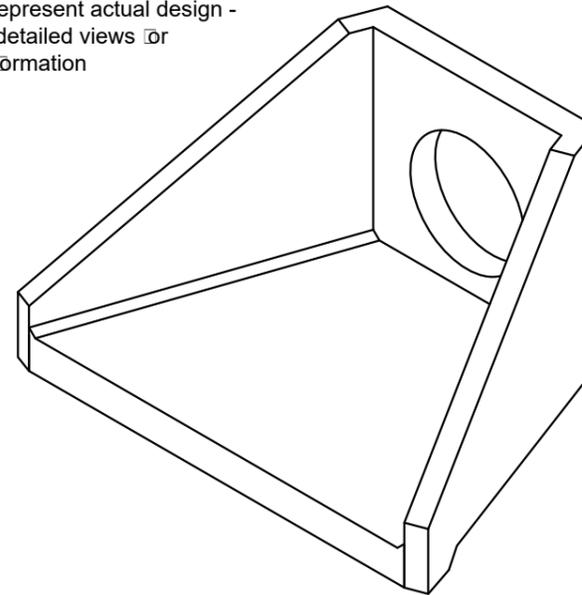
- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 825
1. In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 2. Material Grade is to be: BS EN 10025 S275
 3. All mild steel to be hot dipped galvanised after fabrication
 4. Galvanising to BS EN: 1461
 5. Welding to BS EN 1011-2:2001
 6. Hinged on one side with padlock facility
 7. Weight Approx 118kg

DO NOT SCALE DRAWING





Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 900
- In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 - Material Grade is to be: BS EN 10025 S275
 - All mild steel to be hot dipped galvanized after fabrication
 - Galvanizing to BS EN: 1461
 - Welding to BS EN 1011-2:2001
 - Hinged on one side with padlock facility
 - Weight Approx 123kg

DO NOT SCALE DRAWING

NOTES:

- All dimensions in mm
- All measurements ± 1mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipe
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 200mm thick well compacted Class 6A selected well graded granular material.
Manual contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).
Sit the headwall level or with a slight fall from pipe to spill mouth.

Handling

- Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- All lifting points shall be used as specified below
- Unit to be lifted as per lifting diagram

Concrete

- Mix: Self-compacting DC4/DS4 M10
- Lifting strength based on 2 cubes = 20N/mm²
- Characteristic 28 day cube strength = 50N/mm²
- Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- Reinforcement to BS EN 13369
- Scheduling, dimensioning, bending & cutting to BS8666
- Cage to be machine tied with steel wire

Manufacture

- Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
- Tolerances to BS EN 13369 clause 4.3.1.1
- Finishing:

Class	Top	Sides	Base	Rear of back wall
	A	A	A	Levelled
- Marking: Units shall be indelibly marked to show:
 - Mould reference code
 - De-mould date
 - Job reference number & unique product number
 - Unit weight (kg)

Design

- Concrete design to EC2
- Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- Units are designed to withstand a vertical live load surcharge of 10.0 N/m²
- Weight of soil = 18kN/m³
- Angle of internal friction = 30 Deg.
- Design Life: 100 years

Min Cover	Cover Bloc. Size (mm)	Min Cover Size (mm)	Max Cover Size (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkali attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- Manufacture IAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- Ensure vertical flats are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
- Holes by punching are permitted with reaming.
- Galvanising is carried out after fabrication to BS EN:ISO 1461

Handrail Specification

- Keel Klamp® Galvanised Size 8 Fittings
- Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- Other design loads available on request
- GRP/FRP Handrails also available

REV NO	DATE	DESCRIPTION



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DRAWING TITLE / PROJECT:
SFA15B Headwall
SFA1 900 Outfall Safety Grille

CLIENT:

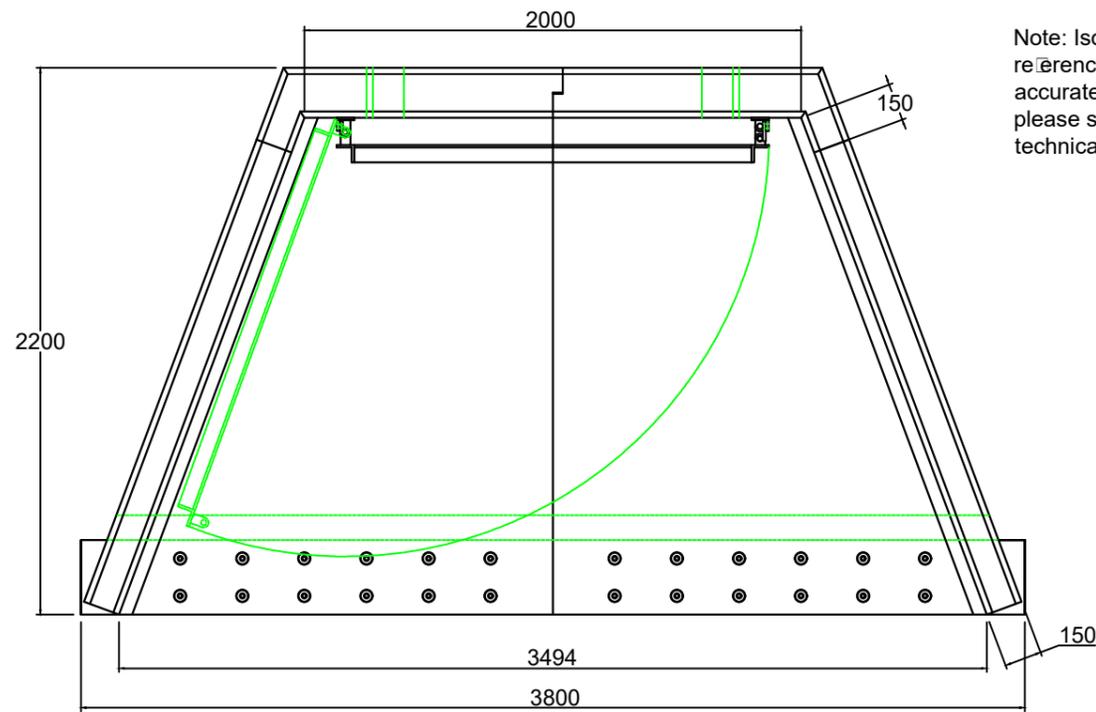
SCALE:	PAPER:	SHEET NO.:	DATE:
NTS	A3	01 OF 01	02 - 04 - 19

HEADWALL WEIGHT:	TOE WEIGHT:
5210kg	N/A

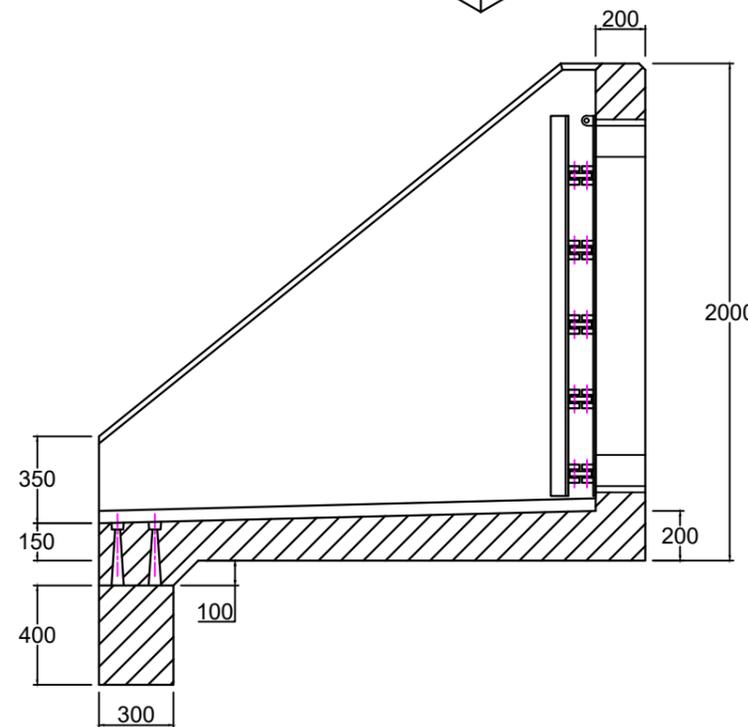
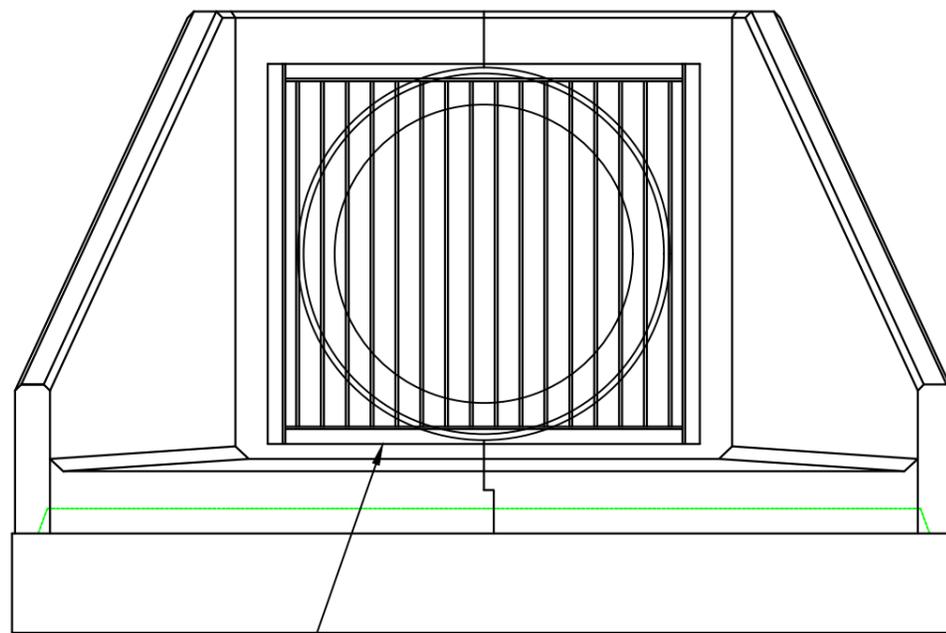
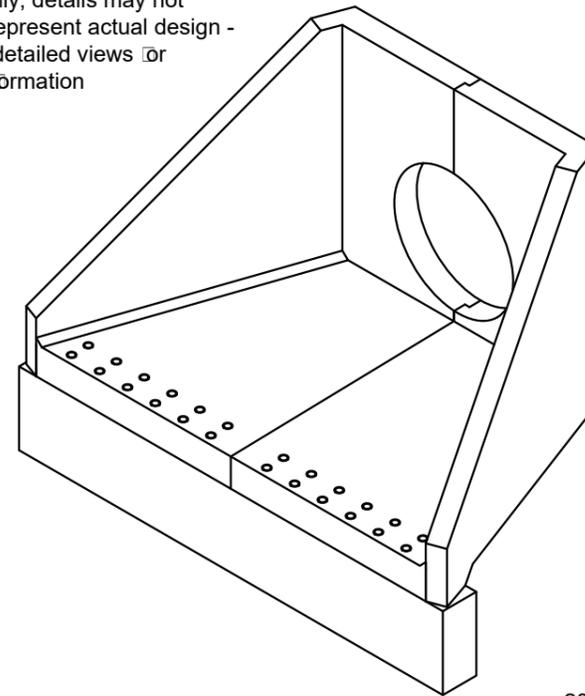
PRODUCT NAME: SFA15B

DRAWING No:





Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



- Sewers for Adoption / Sewers for Scotland Outfall Safety Grille - SFA1 1200
- In accordance with Figure C.6 Typical Outfall Safety Grille - for outfalls of 350mm diameter or greater - Sewers for Adoption 7th Edition
 - Material Grade is to be: BS EN 10025 S275
 - All mild steel to be hot dipped galvanized after fabrication
 - Galvanizing to BS EN: 1461
 - Welding to BS EN 1011-2:2001
 - Hinged on one side with padlock facility
 - Weight Approx: 193kg

DO NOT SCALE DRAWING

NOTES:

- All dimensions in mm
- All measurements ± 1 mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipe
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 200mm thick well compacted Class 6A well graded granular material.
 Manual contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).
 Sit the headwall level or with a slight fall from pipe to spill mouth.

Handling

- Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- All lifting points shall be used as specified below
- Unit to be lifted as per lifting diagram

Concrete

- Mix: Self-compacting DC4/DS4 M10
- Lifting strength based on 2 cubes = 20N/mm²
- Characteristic 28 day cube strength = 50N/mm²
- Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- Reinforcement to BS EN 13369
- Scheduling, dimensioning, bending & cutting to BS8666
- Cage to be machine tied with steel wire

Manufacture

- Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 BS EN 13369
- Tolerances to BS EN 13369 clause 4.3.1.1
- Finishing:

Class	Top	Sides	Base	Rear of back wall
	A	A	A	Self-Levelled
- Marking: Units shall be indelibly marked to show:
 - Mould reference code
 - De-mould date
 - Job reference number & unique product number
 - Unit weight (kg)

Design

- Concrete design to EC2
- Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- Units are designed to withstand a vertical live load surcharge of 10kN/m²
- Weight of soil = 18kN/m³
- Angle of internal friction = 30 Deg.
- Design Life: 100 years

Min Cover	Cover Bloc. Size (mm)	Min Cover Size (mm)	Max Cover Size (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Free alkali attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- Manufacture IAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- Ensure vertical flats are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
- Holes by punching are permitted with reaming.
- Galvanising is carried out after fabrication to BS EN:ISO 1461

Handrail Specification

- Keel Klamp® Galvanised Size 8 Fittings
- Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
- 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
- Other design loads available on request
- GRP/FRP Handrails also available

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DRAWING TITLE / PROJECT:

SFA20C Headwall
 400 x 300mm Toe
 SFA1 1200 Outfall Safety Grille

CLIENT:

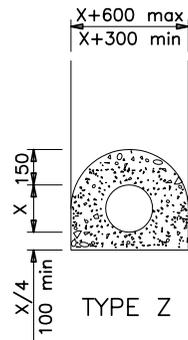
SCALE:	PAPER:	SHEET NO:	DATE:
NTS	A3	01 OF 01	04 - 10 - 18

HEADWALL WEIGHT:	TOE WEIGHT:
6730kg	1095kg

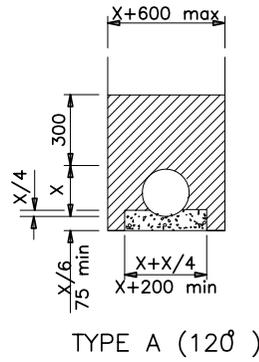
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SFA20C

DRAWING No:

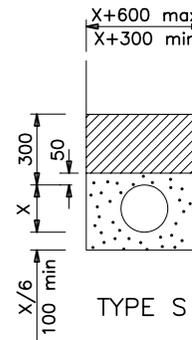




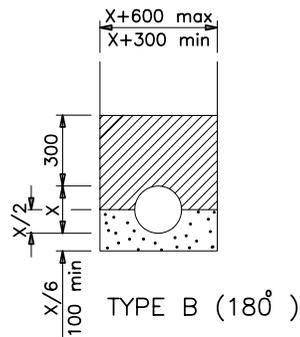
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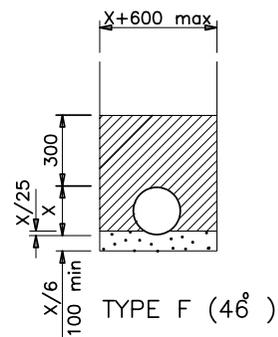
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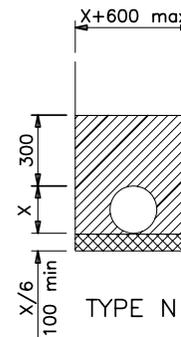
TYPE S



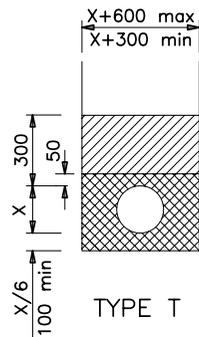
TYPE B (180°)



TYPE F (46°)



TYPE N



TYPE T

KEY

-  Granular material to S.H.W. Clause 503.3(i).
-  Concrete to S.H.W. Clause 503.3 (iii)
-  Material to S.H.W. Clause 503.3(ii). e.g. sand
-  Class 8 material to S.H.W. Clause 503.3(iv).

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. This drawing is to be read in conjunction with Appendix 5/1
3. Dimension X is the external diameter of the pipe.
4. The minimum or maximum width of the trench applies on and below a line 300mm above the outside top of the pipe. Above the 300mm line the trench backfill material shall be as described in Clause 505 of SHW.
5. The concrete bed or surround may extend to the sides of the trench or be of minimum width. Class 8 material is to be used to fill any voids so formed.
6. For Type Z trench the concrete cover may be formed to a radius batter or horizontal surface. Min. cover of concrete shall be 150.

HIGHWAY CONSTRUCTION DETAILS

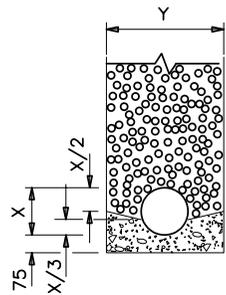
DRAINAGE

A	DEC 91
Issue	Date

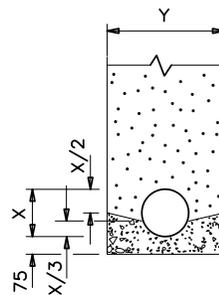
SURFACE WATER DRAINS –
TRENCH AND BEDDING DETAILS

Drawing No.

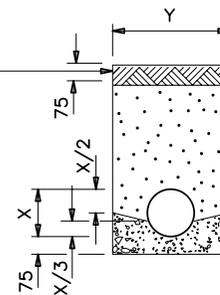
F1



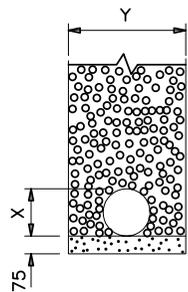
TYPE G



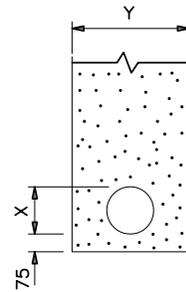
TYPE J



TYPE L

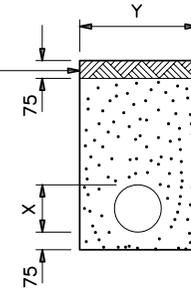


TYPE H

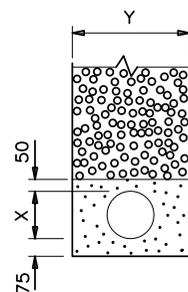


TYPE K

Turf or seed
on topsoil as
described in
Appendix 5/1



TYPE M



TYPE I

KEY



Type A or C filter material to S.H.W. Clause 505 or granular material to S.H.W. Clause 503.3(i).



Type B filter material to S.H.W. Clause 505.



ST2 concrete to S.H.W. Clause 2602.

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. Dimension X is the external diameter of the pipe.
3. This drawing is to be read in conjunction with Appendix 5/1
4. For details of section of the drain at surface level refer to the 'B' series of drawings.
5. Pipes shall comply with the requirements for filter drain pipes in Table 5/1 of the S.H.W.
6. Pipes are to be laid with slots or perforations upwards where a concrete bed is used. For other beds the slots shall be orientated as described in Appendix 5/1.
7. Minimum drain width
 $Y = X + 300$ for drains not exceeding 1.5m cover below finished level.
 $Y = X + 450$ for drains exceeding 1.5m cover below finished level.

HIGHWAY CONSTRUCTION DETAILS

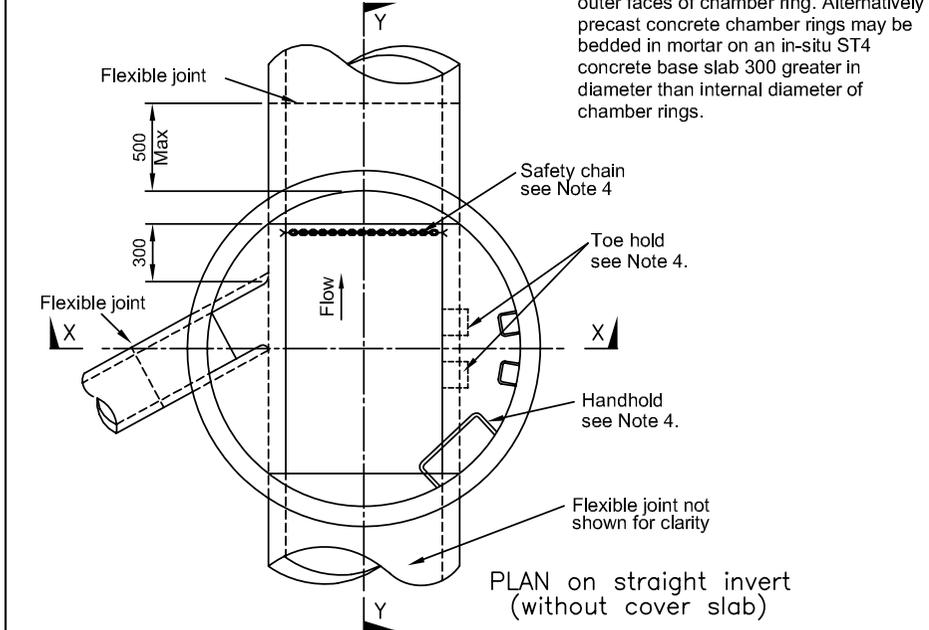
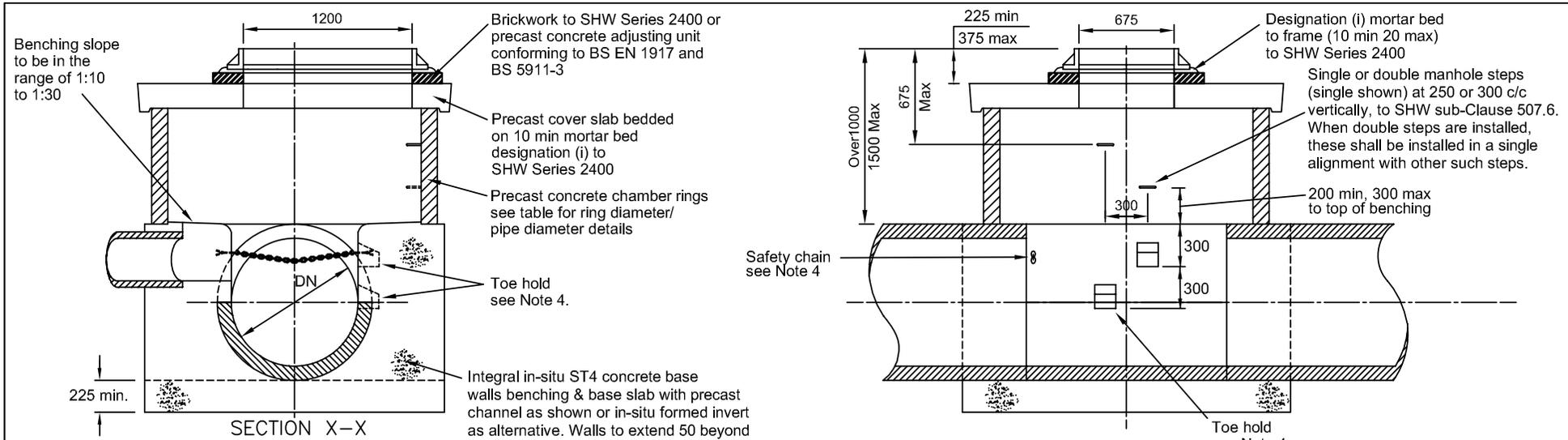
DRAINAGE

C	NOV 03
B	MAR 98
A	DEC 91
Issue	Date

FILTER DRAINS –
TRENCH AND BEDDING DETAILS

Drawing No.

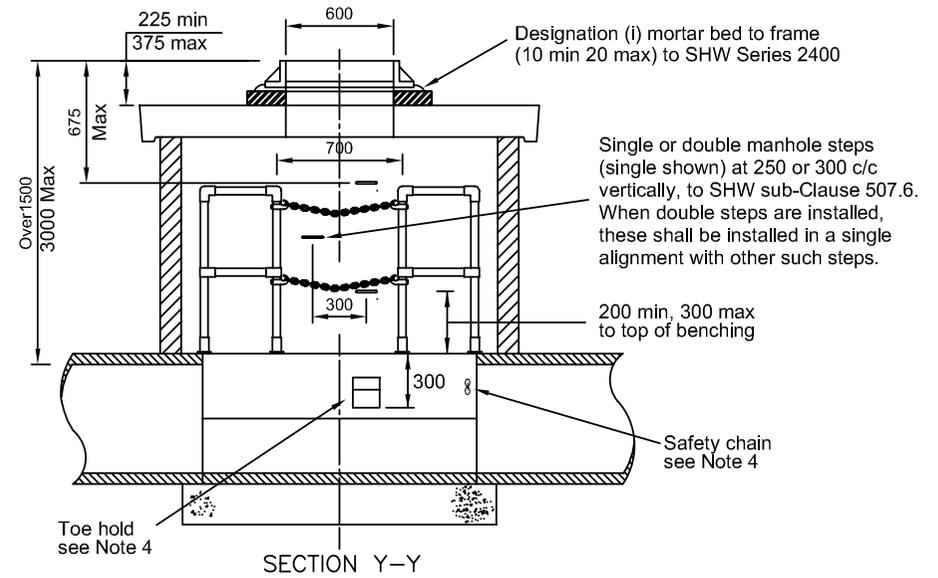
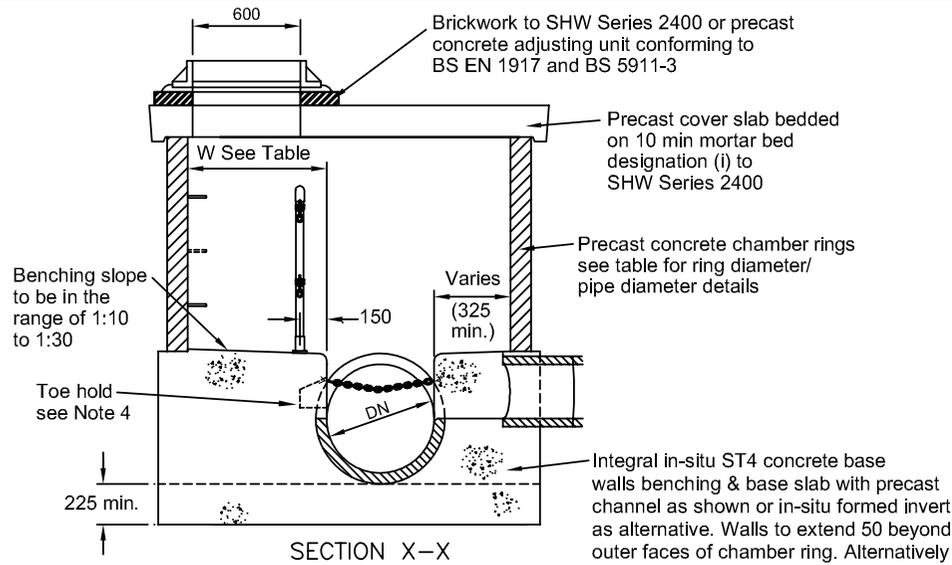
F2



Chamber Sub-Type			
Sub-Type	Minimum Chamber Ring dia.	Max. Pipe DN	Maximum No. of Branches
2a	1500	700	1
2b	1800	900	1

FOR PIPES 450+ TO 900 DIAMETER
 DEPTH 1000+ TO 1500
 + PIPE DIAMETER

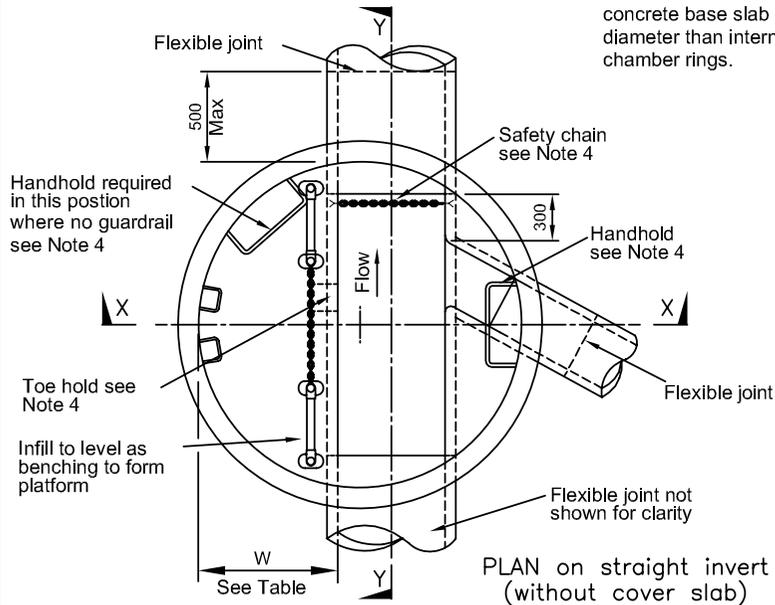
- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. Chamber walls and cover slab to be constructed in precast concrete to BS EN 1917 and BS 5911-3.
 3. For details of pipe size(s), invert level(s) and type of cover and frame, see Drawings and Appendix 5/1.
 4. Safety chain required where outfall pipe is 600 diameter or greater. Toe hold and handhold required where outfall pipe is 500 diameter or greater. For details of safety chain and handhold see Drawing Number F10. For details of toe hold see Drawing Number F28.
 5. See SHW regarding backfilling/ surround to chamber.
 6. All ST concrete shall be to SHW, Clause 2602.



Integral in-situ ST4 concrete base walls benching & base slab with precast channel as shown or in-situ formed invert as alternative. Walls to extend 50 beyond outer faces of chamber ring. Alternatively precast concrete chamber rings may be bedded in mortar on an in-situ ST4 concrete base slab 300 greater in diameter than internal diameter of chamber rings.

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. Chamber walls and cover slab to be constructed in precast concrete to BS EN 1917 and BS 5911-3.
3. For details of pipe size(s), invert level(s) and type of cover and frame, see Drawings and Appendix 5/1.
4. Safety chain and guardrail required where outfall pipe is 600 diameter or greater. Toe hold and handhold required where outfall pipe is 500 diameter or greater. For details of safety chain and handhold see Drawing Number F10. For details of guardrail and toe hold see Drawing Number F28.
5. See SHW regarding backfilling/surround to chamber.
6. All ST concrete shall be to SHW, Clause 2602.



Chamber Sub-Type				
Sub-Type	Minimum Chamber Ring dia.	Max. Pipe DN	Maximum No. of Branches	W
3a	1200	300	1	575
3b	1500	450	1	575
3c	1800	700	1	775
3d	2100	900	1	875

FOR PIPES 900 MAX. DIAMETER. DEPTH 1500+ TO 3000 + PIPE DIAMETER

Issue	Date
F	MAY 06
E	NOV 04
D	NOV 03
C	MAY 01
B	AUG 94
A	DEC 91

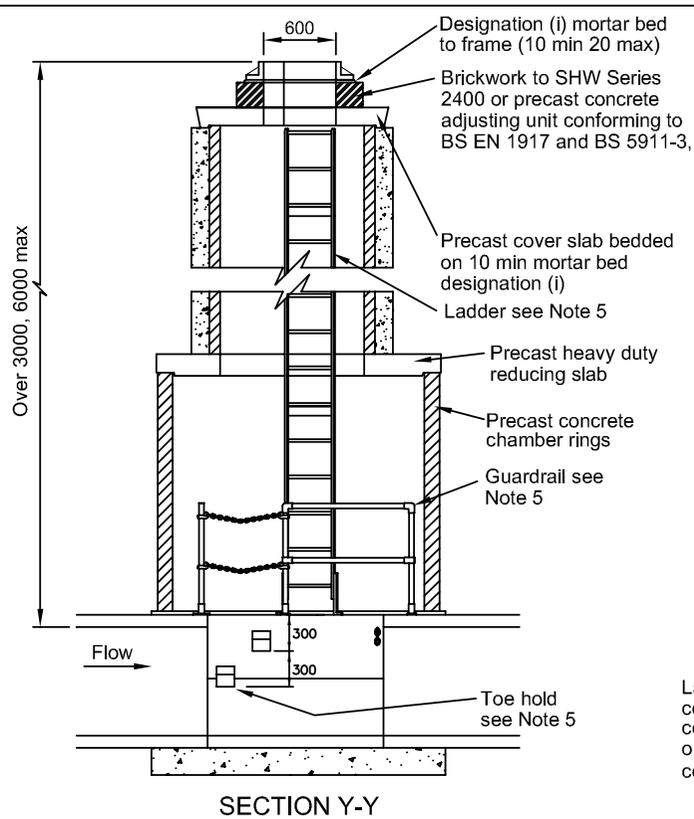
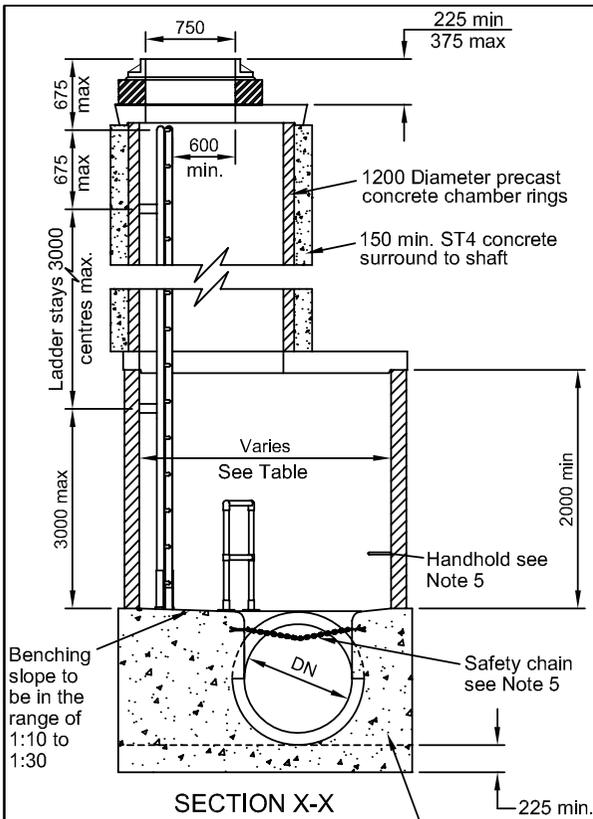
TYPE 3 CHAMBER (PRECAST CONCRETE MANHOLE)

HIGHWAY CONSTRUCTION DETAILS

DRAINAGE

Drawing No.

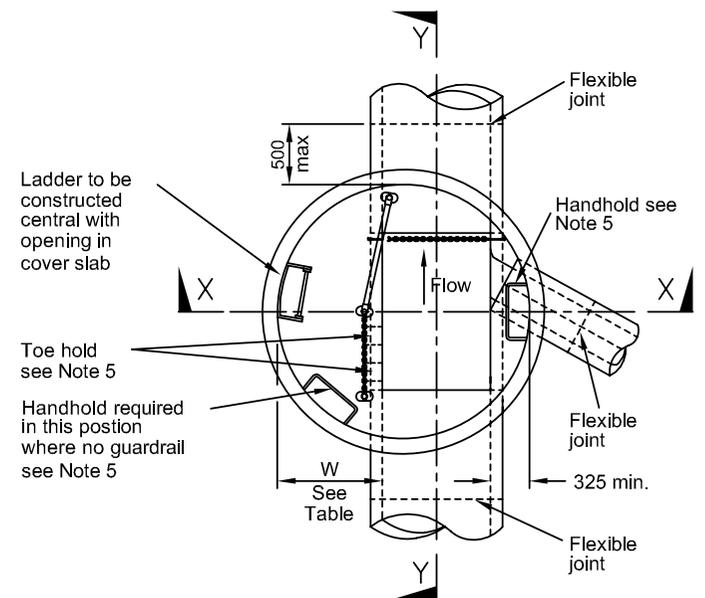
F5



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. Chamber walls and cover slab to be constructed in precast concrete to BS EN 1917 and BS 5911-3.
3. For details of pipe size(s), invert level(s) and type of cover and frame see Drawings and Appendix 5/1.
4. Mortar to be designation (i) to SHW Series 2400.
5. Safety chain and guardrail required where outfall pipe is 600 diameter or greater. Toe hold and handhold required where outfall pipe is 500 diameter or greater. For details of ladder, safety chain and handhold see Drawing Number F10. For details of guardrail and toe hold see Drawing Number F28.
6. See SHW, sub-Clause 507.7 regarding backfilling/surround to chamber.
7. All ST concrete shall be to SHW, Clause 2602.

Integral in-situ ST4 concrete base walls benching & base slab with precast channel as shown or in-situ formed invert as alternative. Walls to extend 50 beyond outer faces of chamber ring. Alternatively precast concrete chamber rings may be bedded in mortar on an in-situ ST4 concrete base slab 300 greater in diameter than internal diameter of chamber rings.

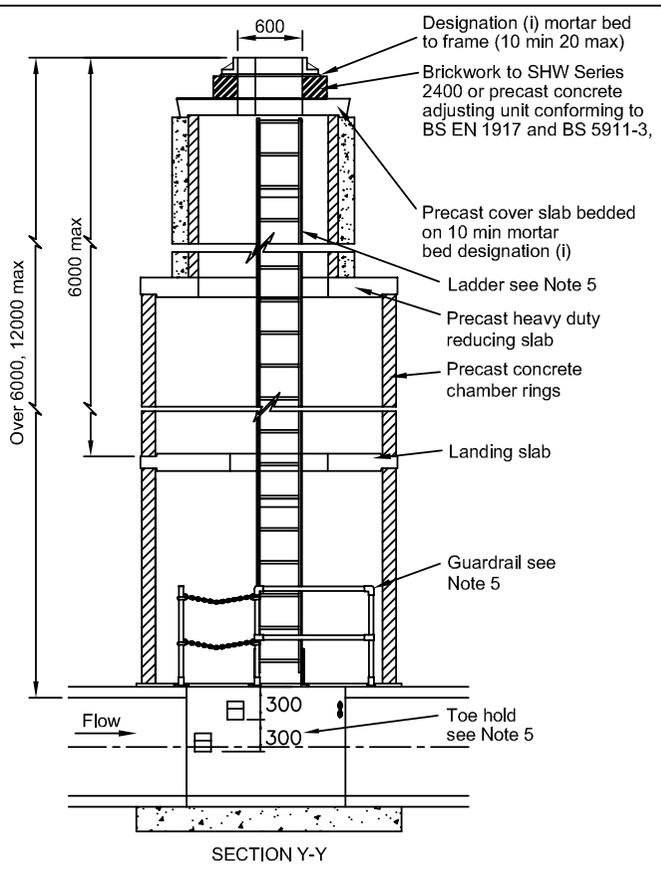
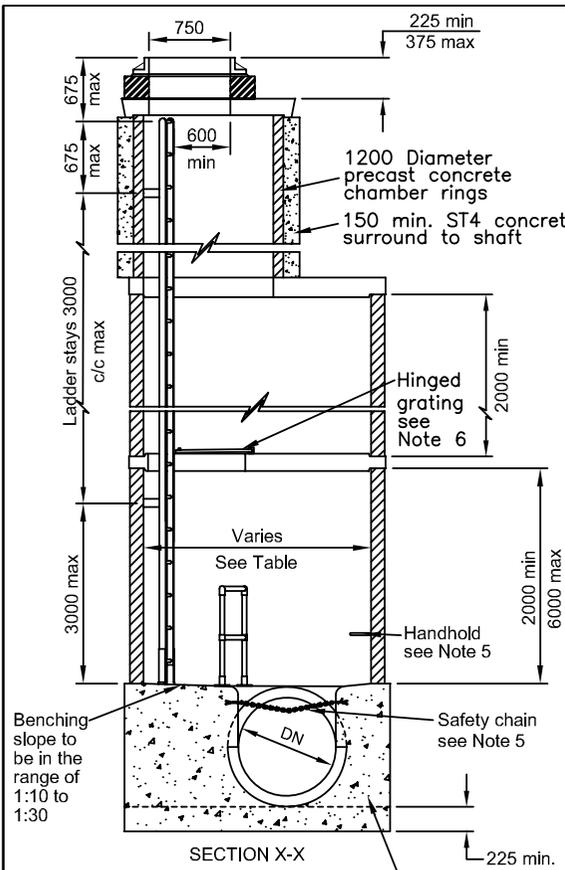


CHAMBER SUB-TYPE						
Sub-Type	Max. Pipe DN	Minimum Chamber ring dia.	W	Guardrail reqd.	Safety chain reqd.	Toe hold reqd.
4a	450	1500	625	x	x	x
4b	550	1500	625	x	x	✓
4c	900	2100	875	✓	✓	✓

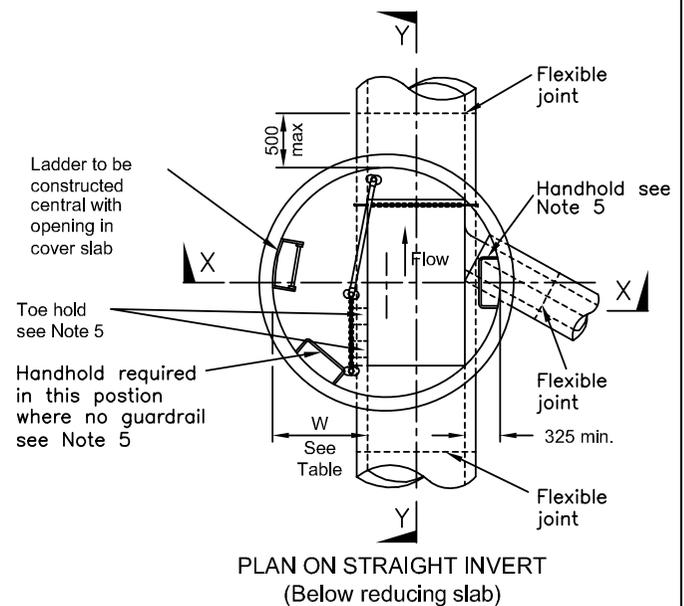
FOR PIPES 300 TO 900 DIAMETER.
 DEPTHS 3000+ TO 6000
 + PIPE DIAMETER

PLAN ON STRAIGHT INVERT
 (Below reducing slab)

F	MAY 06
E	NOV 04
D	NOV 03
C	MAY 01
B	AUG 94
A	DEC 91
Issue	Date



- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. Chamber walls and cover slab to be constructed in precast concrete to BS EN 1917 and BS 5911-3.
 3. For details of pipe size(s), invert level(s) and type of cover and frame see Drawings and Appendix 5/1.
 4. Mortar to be designation (i) to SHW Series 2400.
 5. Safety chain and guardrail required where outfall pipe is 600 diameter or greater. Toe hold and handhold required where outfall pipe is 500 diameter or greater. For details of ladder, safety chain and handhold see Drawing Number F10. For details of guardrail and toe hold see Drawing Number F28.
 6. For details of hinged grating see Drawing Number F9.
 7. See SHW, sub-Clause 507.7 regarding backfilling/surround to chamber.
 8. All ST concrete shall be to SHW, Clause 2602.

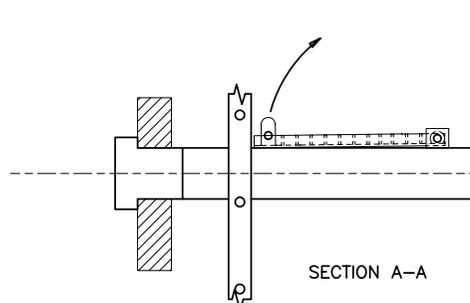


Integral in-situ ST4 concrete base walls benching and base slab with precast channel as shown or in-situ formed invert as alternative. Walls to extend 50 beyond outer faces of chamber ring. Alternatively precast concrete chamber rings may be bedded in mortar on an in-situ ST4 concrete base slab 300 greater in diameter than internal diameter of chamber rings.

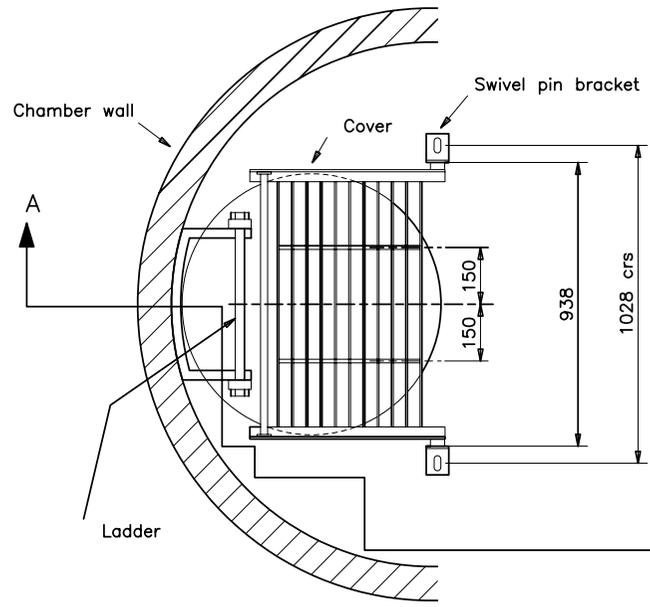
CHAMBER SUB TYPE						
Sub Type	Max. Pipe DN	Minimum Chamber ring dia.	W	Guardrail reqd.	Safety chain reqd.	Toe-hold reqd.
5a	450	1500	625	x	x	x
5b	550	1500	625	x	x	✓
5c	900	2100	875	✓	✓	✓

FOR PIPES 300 TO 900 DIAMETER.
 DEPTHS 6000+ to 12000
 + PIPE DIAMETER

HIGHWAY CONSTRUCTION DETAILS	DRAINAGE	E	MAY 06	TYPE 5 CHAMBER (PRECAST CONCRETE MANHOLE)	Drawing No.
		D	NOV 04		F7
		C	NOV 03		
		B	MAY 01		
		A	DEC 91		
		Issue	Date		

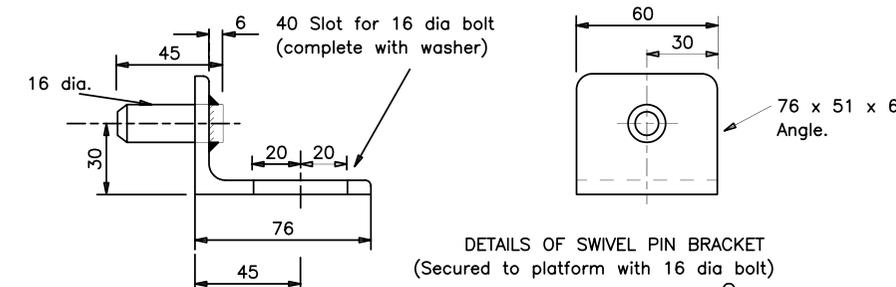


SECTION A-A

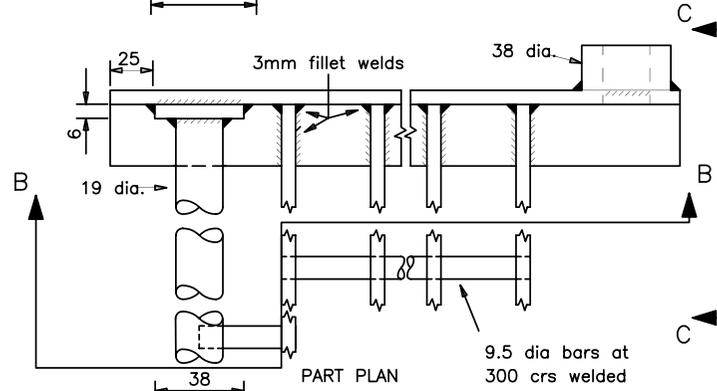


ASSEMBLY PLAN

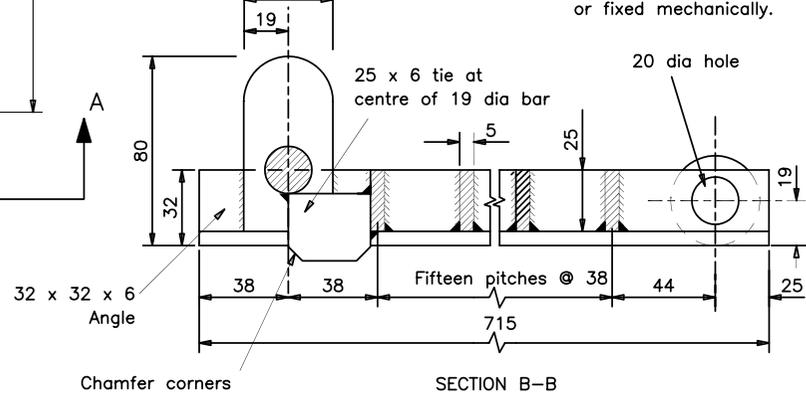
(Plan detail on grating positioned on landing slab.)



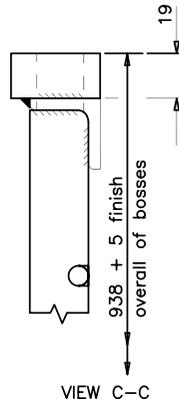
DETAILS OF SWIVEL PIN BRACKET
(Secured to platform with 16 dia bolt)



PART PLAN



SECTION B-B

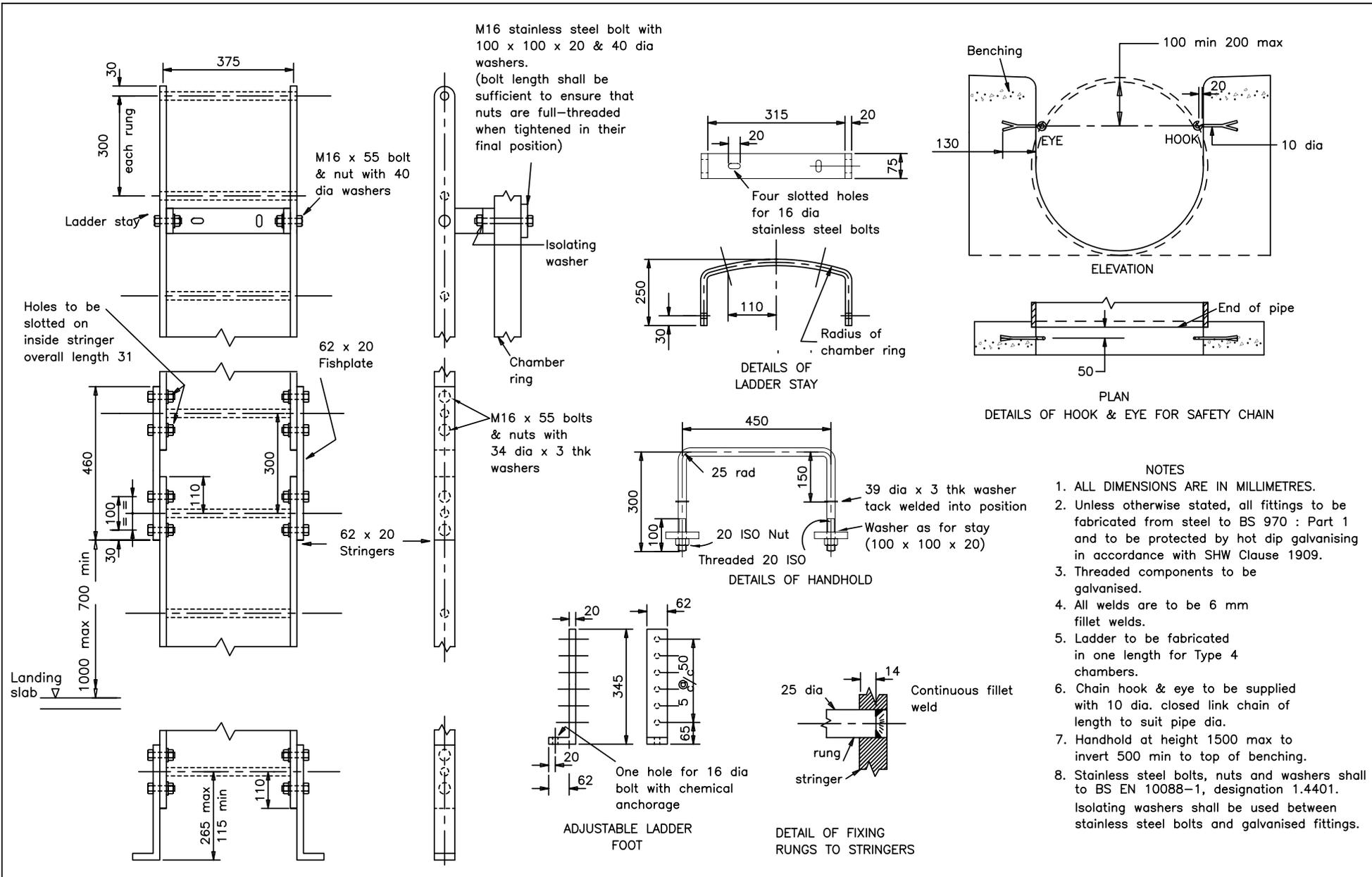


VIEW C-C

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. All welds are to be 6mm fillet welds except where stated otherwise.
3. The gratings and brackets are to be fabricated from steel to BS 970 : Part 1 and to be protected by hot dip galvanising in accordance with SHW Clause 1909.

HIGHWAY CONSTRUCTION DETAILS	DRAINAGE	B	MAY 01	TYPE 5 CHAMBER GRATING DETAILS	Drawing No.
		A	DEC 91		F9
		Issue	Date		



- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. Unless otherwise stated, all fittings to be fabricated from steel to BS 970 : Part 1 and to be protected by hot dip galvanising in accordance with SHW Clause 1909.
 3. Threaded components to be galvanised.
 4. All welds are to be 6 mm fillet welds.
 5. Ladder to be fabricated in one length for Type 4 chambers.
 6. Chain hook & eye to be supplied with 10 dia. closed link chain of length to suit pipe dia.
 7. Handhold at height 1500 max to invert 500 min to top of benching.
 8. Stainless steel bolts, nuts and washers shall to BS EN 10088-1, designation 1.4401. Isolating washers shall be used between stainless steel bolts and galvanised fittings.

HIGHWAY CONSTRUCTION DETAILS	DRAINAGE	C	NOV 03	CHAMBER FITTINGS – LADDER, HANDHOLD AND SAFETY CHAIN	Drawing No.
		B	MAY 01		
		A	DEC 91		F10
		Issue	Date		