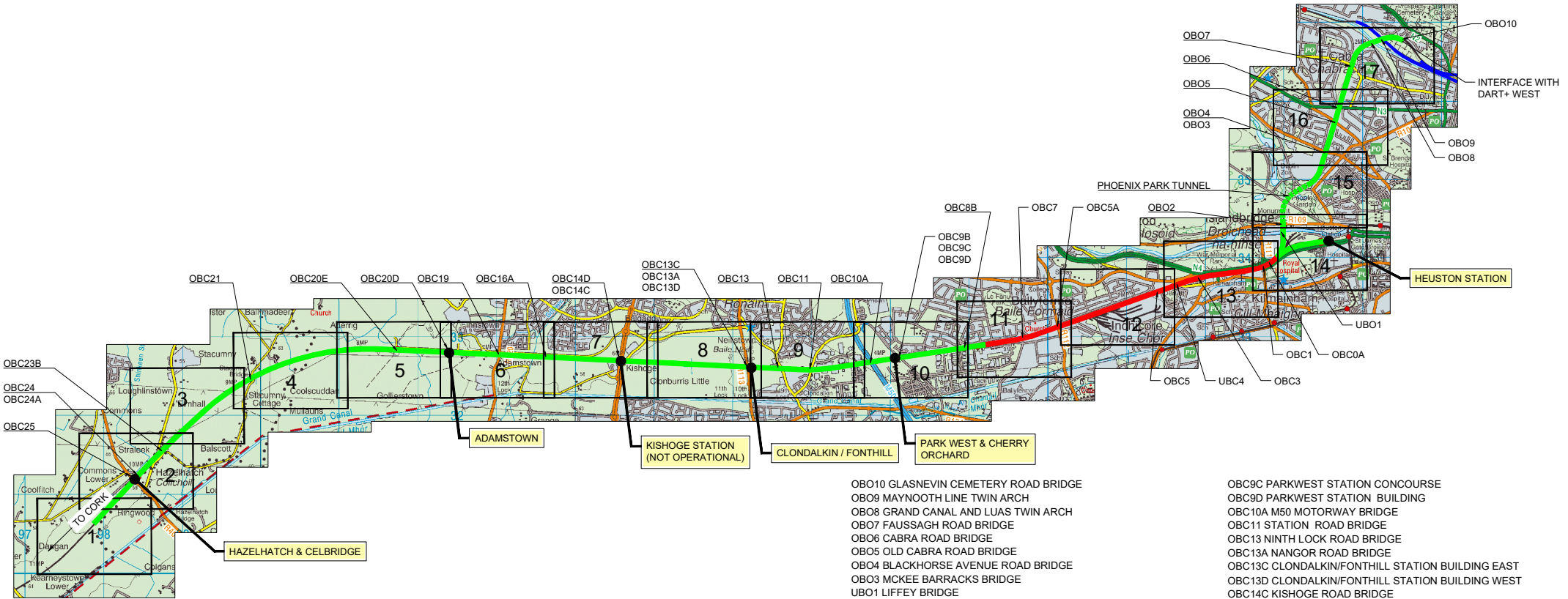

Appendix A

Project Schematics



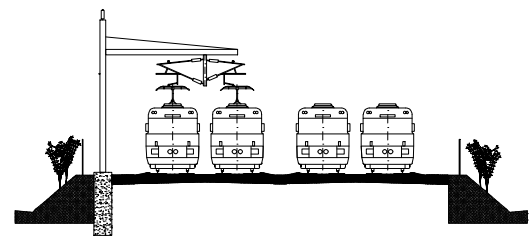
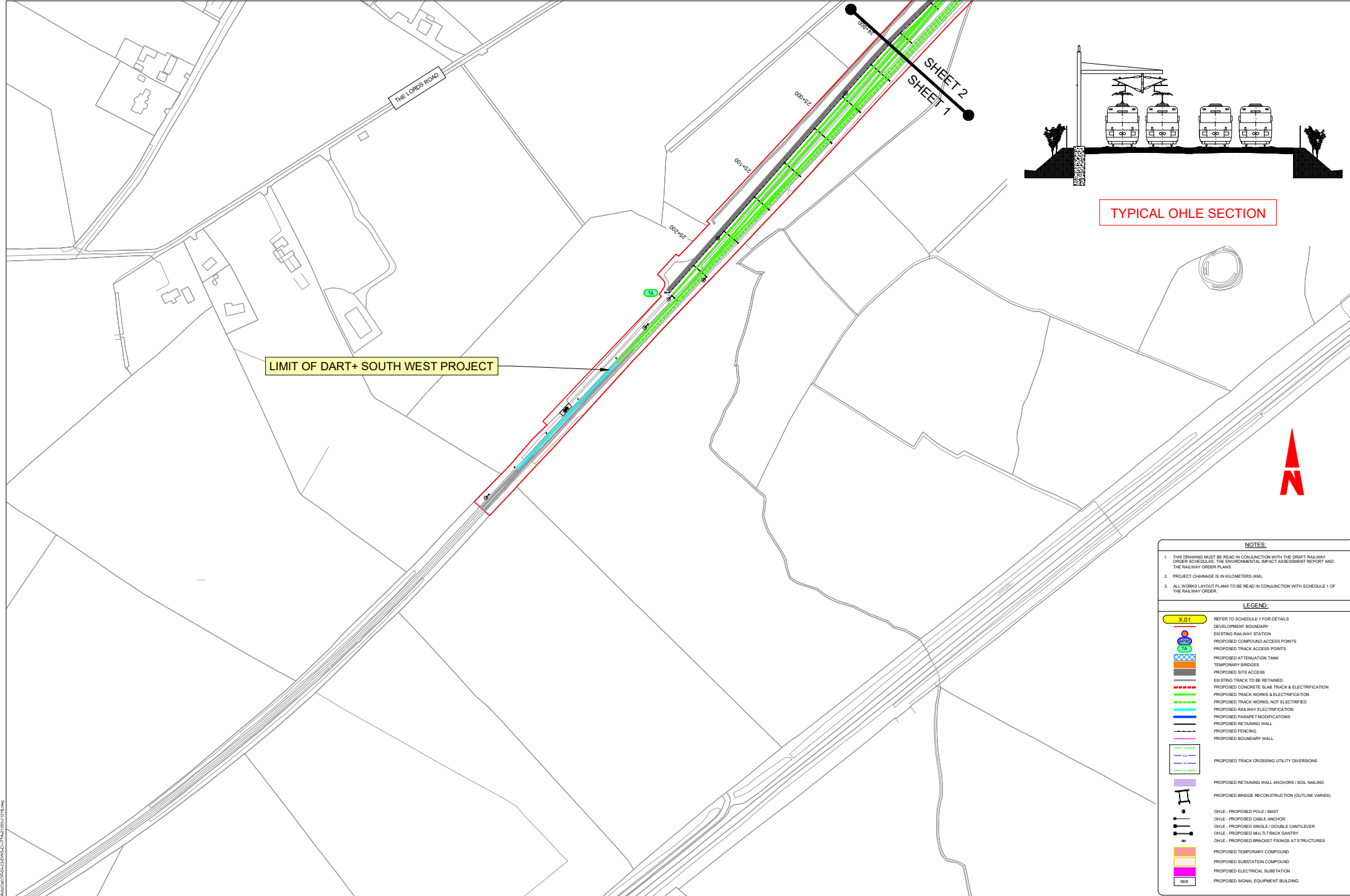
- LEGEND:**
- DART+ SOUTH WEST ELECTRIFICATION
 - DART+ SOUTH WEST ELECTRIFICATION AND FOUR TRACKING
 - EXISTING STATIONS
 - OBXX EXISTING BRIDGE / ROAD OVER RAILWAY CORRIDOR
 - UBXX EXISTING BRIDGE / ROAD / RIVER UNDER RAILWAY CORRIDOR

- OBO10 GLASNEVIN CEMETERY ROAD BRIDGE
- OBO9 MAYNOOTH LINE TWIN ARCH
- OBO8 GRAND CANAL AND LUAS TWIN ARCH
- OBO7 FAUSSAGH ROAD BRIDGE
- OBO6 CABRA ROAD BRIDGE
- OBO5 OLD CABRA ROAD BRIDGE
- OBO4 BLACKHORSE AVENUE ROAD BRIDGE
- OBO3 MCKEE BARRACKS BRIDGE
- UBO1 LIFFEY BRIDGE
- OBO2 CONYNGHAM ROAD BRIDGE
- OBC0A ST. JOHN'S ROAD BRIDGE
- OBC1 SOUTH CIRCULAR ROAD BRIDGE / ISLAND BRIDGE JUNCTION
- OBC3 MEMORIAL ROAD BRIDGE
- UBC4 SARSFIELD ROAD BRIDGE
- OBC5 KYBER PASS BRIDGE
- OBC5A KYLEMORE ROAD BRIDGE
- OBC7 LE FANU ROAD BRIDGE
- OBC8B FOOTBRIDGE CHERRY ORCHARD
- OBC9B PARK WEST AVENUE ROAD BRIDGE
- OBC9C PARKWEST STATION CONCOURSE
- OBC9D PARKWEST STATION BUILDING
- OBC10A M50 MOTORWAY BRIDGE
- OBC11 STATION ROAD BRIDGE
- OBC13 NINTH LOCK ROAD BRIDGE
- OBC13A NANGOR ROAD BRIDGE
- OBC13C CLONDALKIN/FONTHILL STATION BUILDING EAST
- OBC13D CLONDALKIN/FONTHILL STATION BUILDING WEST
- OBC14C KISHOGE ROAD BRIDGE
- OBC14D KISHOGE STATION
- OBC16A ADAMSTOWN FOOTBRIDGE
- OBC19 ROAD R120 NEAR FINNSTOWN
- OBC20D ADAMSTOWN STATION BUILDING
- OBC20E CROWLEY'S ROAD BRIDGE
- OBC21 STACUMMY ROAD BRIDGE
- OBC23B NEW FOOTBRIDGE STRALEEK
- OBC24 HAZELHATCH FOOTBRIDGE
- OBC24A NEW HAZELHATCH FOOTBRIDGE
- OBC25 HAZELHATCH R405 ROAD BRIDGE

© Irish Rail (2023). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be altered, copied or otherwise reproduced in whole or in part without the prior written permission of Irish Rail.
 © Ordnance Survey Ireland and government of Ireland. All O.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 0000752 (OSI Asset Data or OSI User Data)
 & Survey No. 2002709; NMA, 160 (OSI Vector Data).
 All dimensions are in metres and unless so stated in a specific block.
 © (2023) Design team as defined by existing Project Contract.
 All co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS station Tanyahy College (TL02).

	Rev	Date	Des	Chk'd	App'd	Description	Client					Project Title	DART+ SOUTH WEST												
	<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Des</th> <th>Chk'd</th> <th>App'd</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>v01</td> <td>10.11.22</td> <td>DMP</td> <td>JP</td> <td>CS</td> <td>PLANNING ISSUE</td> </tr> </tbody> </table>							Rev	Date	Des	Chk'd	App'd	Description	v01	10.11.22	DMP	JP	CS	PLANNING ISSUE	Date: 29.09.22 Project Code: 789699 Scale: N.T.S @ A0 Issued: TTA OMS Code:	Drawn: JPH Checked: JP Approved: CS OMS Code:	Project File: Drawing Title: Drawing File Name:	GENERAL DESIGN PROJECT SCHEMATIC LAYOUT KEY PLAN		Project Title: Drawing File Name:
Rev	Date	Des	Chk'd	App'd	Description																				
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE																				

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



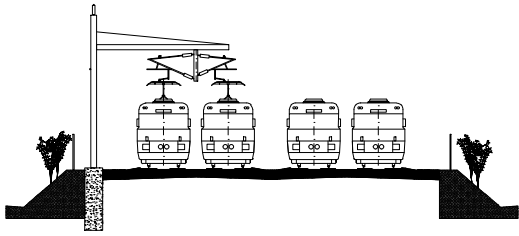
TYPICAL OHL SECTION

LIMIT OF DART+ SOUTH WEST PROJECT

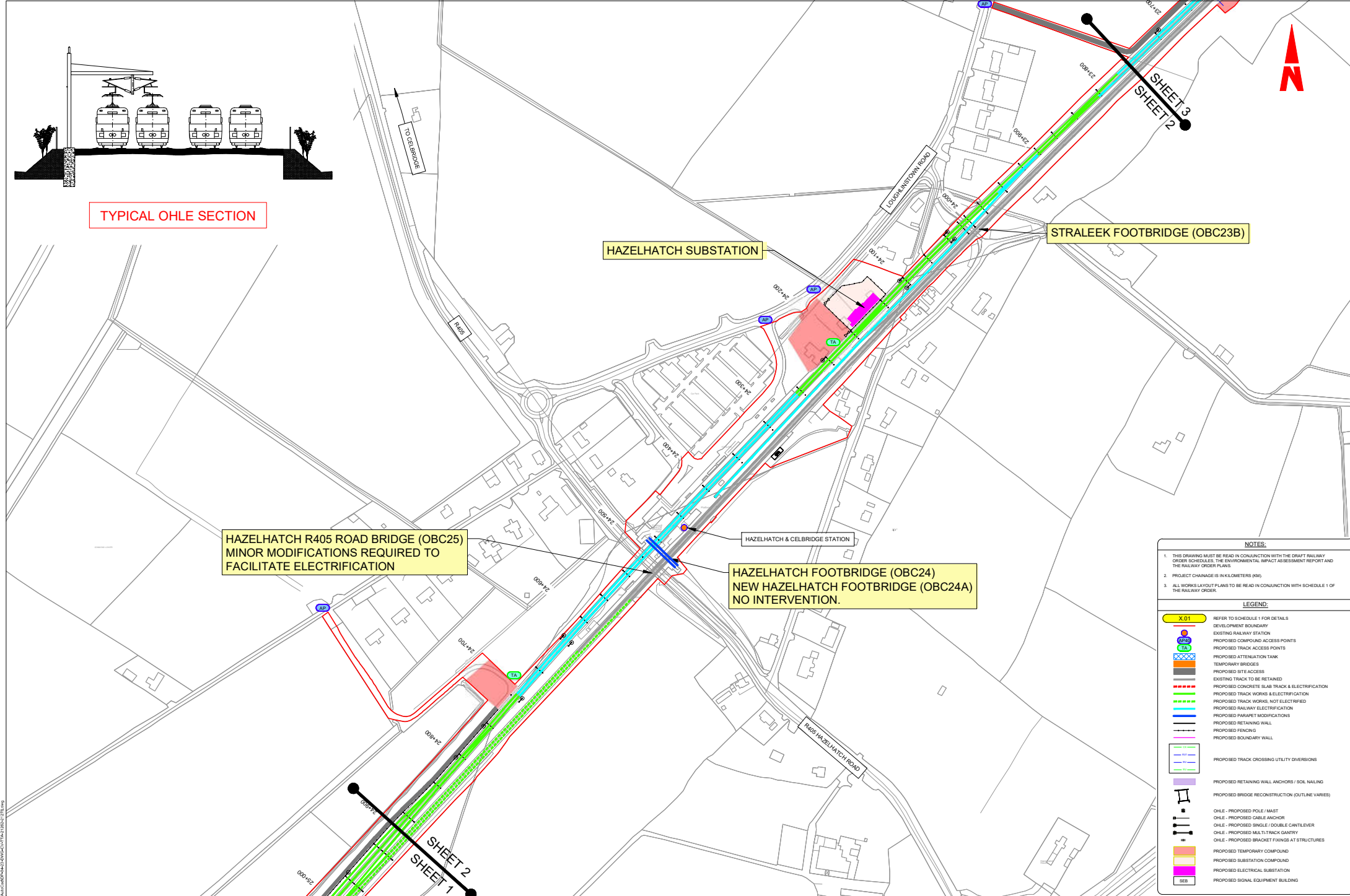
NOTES:	
1.	THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
2.	PROJECT CHANGING IS IN KILOMETERS (KM).
3.	ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:	
	REFER TO SCHEDULE 1 FOR DETAILS
	DEVELOPMENT BOUNDARY
	EXISTING RAILWAY STATION
	PROPOSED TRACK ACCESS POINTS
	PROPOSED ATTENUATION TANK
	TEMPORARY BRIDGES
	PROPOSED SITE ACCESS
	EXISTING TRACK TO BE RETAINED
	PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
	PROPOSED TRACK WORKS ELECTRIFICATION
	PROPOSED TRACK WORKS, NOT ELECTRIFIED
	PROPOSED RAILWAY ELECTRIFICATION
	PROPOSED PARAPET MODIFICATIONS
	PROPOSED RETAINING WALL
	PROPOSED FENCING
	PROPOSED BOUNDARY WALL
	PROPOSED TRACK CROSSING UTILITY DIVERSIONS
	PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
	PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
	OHL - PROPOSED POLE / MAST
	OHL - PROPOSED CABLE ANCHOR
	OHL - PROPOSED SINGLE / DOUBLE CANTILEVER
	OHL - PROPOSED MULTI-TRACK GANTRY
	OHL - PROPOSED BRACKET FONDS AT STRUCTURES
	PROPOSED TEMPORARY COMPOUND
	PROPOSED SUBSTATION COMPOUND
	PROPOSED ELECTRICAL SUBSTATION
	PROPOSED SIGNAL EQUIPMENT BUILDING

<p>© Irish Rail (2023). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of Irish Rail.</p> <p>© Ordnance Survey Ireland and government of Ireland. All O.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 0030752 (OSi Asset Data or OSi User Data) & Survey No. 2022030; NMA, 100 (OSi Vector Data).</p> <p>All elevations are in metres and refer to OSi Geoid Model (1020202) unless stated otherwise by issuing Project Codes.</p> <p>All co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OSi active GPS station Youghal College (TL02).</p>		<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Drn</th> <th>Chk'd</th> <th>App'd</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>v01</td> <td>10/11/22</td> <td>DMP</td> <td>JP</td> <td>CS</td> <td>PLANNING ISSUE</td> </tr> </tbody> </table>	Rev	Date	Drn	Chk'd	App'd	Description	v01	10/11/22	DMP	JP	CS	PLANNING ISSUE	<p>Client: Irish Rail / Irish Rail</p> <p>Engineering Designer: ATKINS</p> <p>Checked: JP / Approved: CS</p> <p>Project Code: 759999 / Issued: TTA / OMS Code: _____</p>	<p>Project Title: DART+ SOUTH WEST</p> <p>Drawing Title: GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 1 OF 17</p> <p>Drawing File Name: DP-04-23-DWG-CV-TTA-21262 / Version: v01 / Status: SI</p>
		Rev	Date	Drn	Chk'd	App'd	Description									
v01	10/11/22	DMP	JP	CS	PLANNING ISSUE											
<p>DO NOT SCALE USE FIGURED DIMENSIONS ONLY</p>																



TYPICAL OHL SECTION



HAZELHATCH R405 ROAD BRIDGE (OBC25)
MINOR MODIFICATIONS REQUIRED TO
FACILITATE ELECTRIFICATION

HAZELHATCH SUBSTATION

STRALEEK FOOTBRIDGE (OBC23B)

HAZELHATCH & CELBRIDGE STATION

HAZELHATCH FOOTBRIDGE (OBC24)
NEW HAZELHATCH FOOTBRIDGE (OBC24A)
NO INTERVENTION.

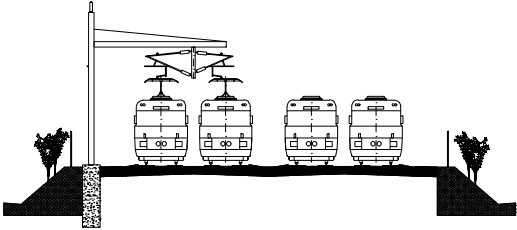
NOTES:

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
- PROJECT CHANGE IS IN KILOMETERS (KM).
- ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

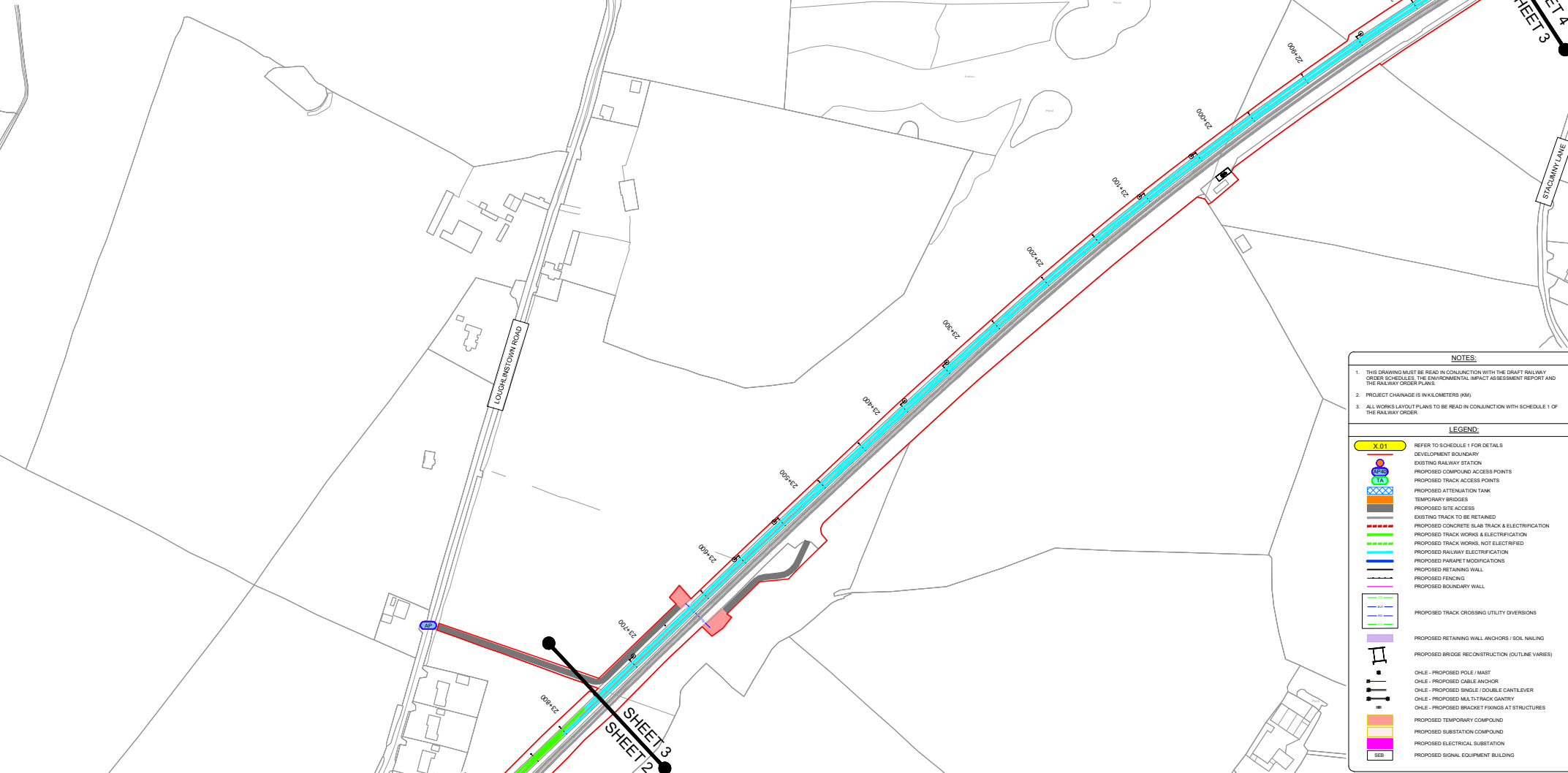
LEGEND:

- X.01 REFER TO SCHEDULE 1 FOR DETAILS
- DEVELOPMENT BOUNDARY
- EXISTING RAILWAY STATION
- PROPOSED TRACK ACCESS POINTS
- PROPOSED ATTENUATION TANK
- TEMPORARY BRIDGES
- PROPOSED SITE ACCESS
- EXISTING TRACK TO BE RETAINED
- PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PHASING MODIFICATIONS
- PROPOSED RETAINING WALL
- PROPOSED FENCING
- PROPOSED BOUNDARY WALL
- PROPOSED TRACK CROSSING UTILITY DIVERSIONS
- PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
- PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
- OHL - PROPOSED POLE / MAST
- OHL - PROPOSED CABLE ANCHOR
- OHL - PROPOSED SINGLE / DOUBLE CANTILEVER
- OHL - PROPOSED MULTI-TRACK GANTTRY
- OHL - PROPOSED BRACKET FINNOS AT STRUCTURES
- PROPOSED TEMPORARY COMPOUND
- PROPOSED SUBSTATION COMPOUND
- PROPOSED ELECTRICAL SUBSTATION
- PROPOSED SIGNAL EQUIPMENT BUILDING

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



TYPICAL OHLE SECTION



NOTES:

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
- PROJECT CHANGE IS IN KILOMETERS (KM)
- ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

- X 01** REFER TO SCHEDULE 1 FOR DETAILS
- DEVELOPMENT BOUNDARY
- EXISTING RAILWAY STATION
- PROPOSED COMPOUND ACCESS POINTS
- PROPOSED TRACK ACCESS POINTS
- PROPOSED ATTENUATION TANK
- TEMPORARY BRIDGES
- PROPOSED SITE ACCESS
- EXISTING TRACK TO BE RETAINED
- PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS & ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS
- PROPOSED RETAINING WALL
- PROPOSED FENCING
- PROPOSED BOUNDARY WALL
- PROPOSED TRACK CROSSING UTILITY DIVERSIONS
- PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
- PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
- OHLE - PROPOSED POLE / MAST
- OHLE - PROPOSED CABLE ANCHOR
- OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
- OHLE - PROPOSED MULTITRACK GANTY
- OHLE - PROPOSED BRACKET FIXINGS AT STRUCTURES
- PROPOSED TEMPORARY COMPOUND
- PROPOSED SUBSTATION COMPOUND
- PROPOSED ELECTRICAL SUBSTATION
- PROPOSED SIGNAL EQUIPMENT BUILDING

© Irish Rail (2022). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of Irish Rail.
 © Ordnance Survey Ireland and government of Ireland. All G.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 00207522 (OS Aerial Data or OS Live Data) & Survey No. 20220705/MAA_160 (OS Vector Data).
 All elevations are in metres and refer to OS Geoid Model (OS2003). Elevation may be obtained by viewing Project Content. All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS station Vaneigh College (TL02).



Rev	Date	Drn	CHKD	APP'D	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

Client: **Irish Rail** / **Irish Rail**

Scale: 1:1250 @ A0

Date: 29.09.22

Project Code: 20220705

Author: TTA

QMS Code

Checked: JP

Approved: CS

Project Title: **DART+ SOUTH WEST**

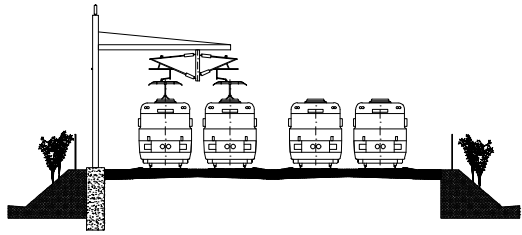
Drawing Title: **GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 3 OF 17**

Drawing File Name: **DP-04-23-DWG-CV-TTA-21264**

Version: v01

Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



TYPICAL OHLE SECTION

WY LANE

STACUMNY BRIDGE (OBC21)



SHEET 5
SHEET 4

NOTES:

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
- PROJECT CHAINAGE IS IN KILOMETERS (KM).
- ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

- X.01 REFER TO SCHEDULE 1 FOR DETAILS
- DEVELOPMENT BOUNDARY
- EXISTING RAILWAY STATION
- PROPOSED TRACK ACCESS POINTS
- PROPOSED ATTENUATION TANK
- TEMPORARY BRIDGES
- PROPOSED SITE ACCESS
- EXISTING TRACK TO BE RETAINED
- PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS ELECTRIFICATION
- PROPOSED TRACK WORKS NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS
- PROPOSED RETAINING WALL
- PROPOSED FENCING
- PROPOSED BOUNDARY WALL
- PROPOSED TRACK CROSSING UTILITY DIVERSIONS
- PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
- PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
- OHLE - PROPOSED POLE / MAST
- OHLE - PROPOSED CABLE ANCHOR
- OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
- OHLE - PROPOSED MULTI-TRACK GANTRY
- OHLE - PROPOSED BRACKET FINISH AT STRUCTURES
- PROPOSED TEMPORARY COMPOUND
- PROPOSED SUBSTATION COMPOUND
- PROPOSED ELECTRICAL SUBSTATION
- PROPOSED SIGNAL EQUIPMENT BUILDING

SHEET 4
SHEET 3

STACUMNY LANE

© Irish Rail (2023). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of Irish Rail.
 © Ordnance Survey Ireland and government of Ireland. All O.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 0020722. (OS Aerial Data or OS Live Data) & Survey No. 2022030. NMA, T60 (OS) Vector Data.
 All elevations are in metres and unless so stated Geoid Model: (1/2023) Mean Sea Level as defined by existing Project Control.
 All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS station Yangaighy College (TL02).



Rev	Date	Drn	CHKD	Appr'd	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

Client: **Irish Rail** / **Irish Rail**

Engineering Designer: **ATKINS**

Scale: 1:1250 @ A3

Date: 20.09.22

Project Code: 519999

Issue: TTA

Drawn: OMC

Checked: JP

Approved: CS

Project Title: **DART+ SOUTH WEST**

Drawing Title: **GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 4 OF 17**

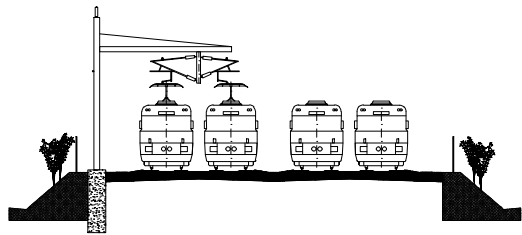
Drawing File Name: **DP-04-23-DWG-CV-TTA-21285**

Version: **v01**

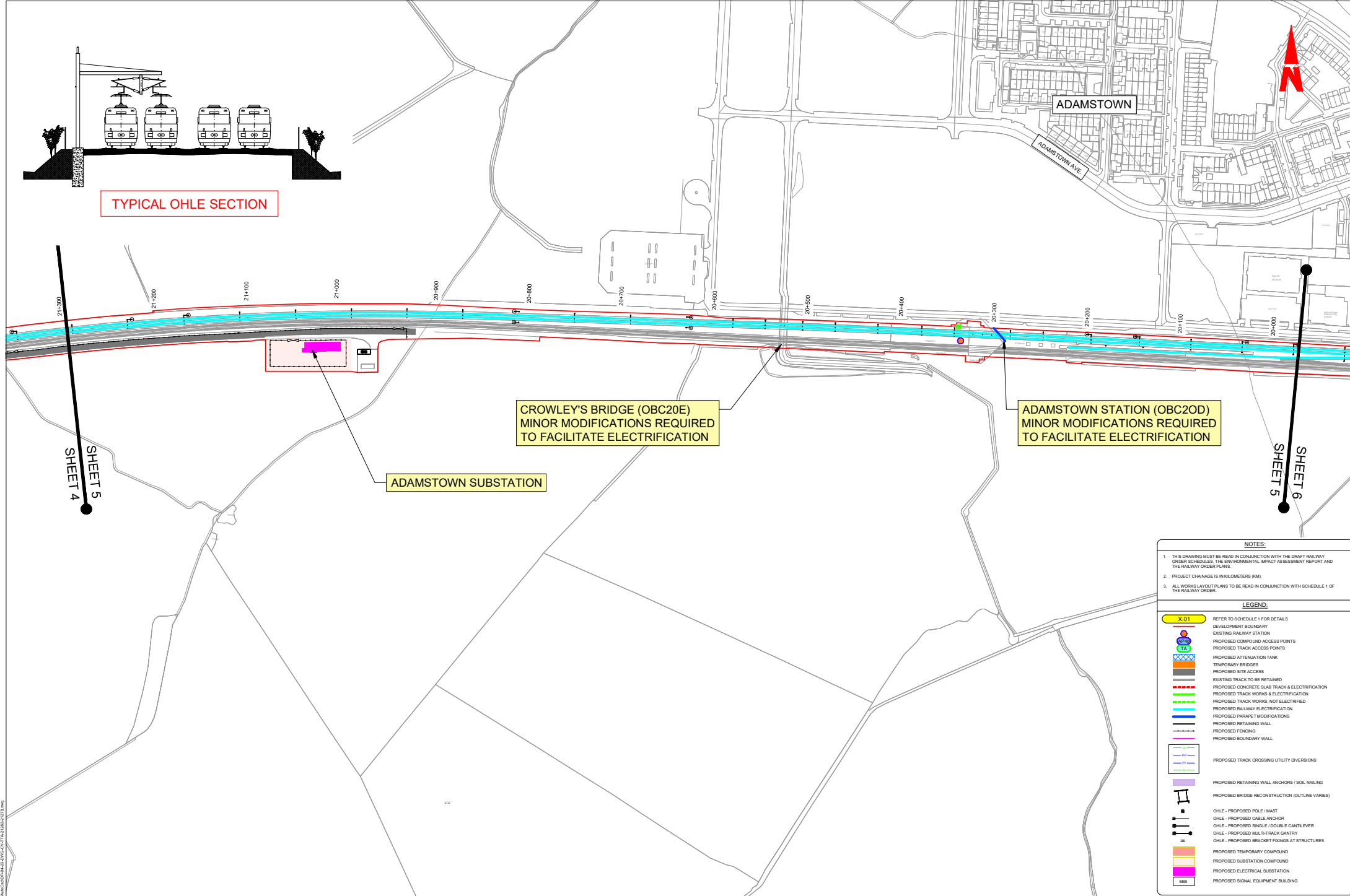
Status: **S3**

C:\Users\jdp\OneDrive\Documents\Railway\DP-04-23-DWG-CV-TTA-21285.dwg

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



TYPICAL OHLE SECTION



CROWLEY'S BRIDGE (OBC20E)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION

ADAMSTOWN STATION (OBC20D)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION

ADAMSTOWN SUBSTATION

SHEET 4
SHEET 5

SHEET 5
SHEET 6

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

- LEGEND:**
- X 01 REFER TO SCHEDULE 1 FOR DETAILS
 - DEVELOPMENT BOUNDARY
 - EXISTING RAILWAY STATION
 - PROPOSED COMPOUND ACCESS POINTS
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED ATTENUATION TANK
 - TEMPORARY BRIDGES
 - PROPOSED SITE ACCESS
 - EXISTING TRACK TO BE RETAINED
 - PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
 - PROPOSED TRACK WORKS & ELECTRIFICATION
 - PROPOSED TRACK WORKS, NOT ELECTRIFIED
 - PROPOSED RAILWAY ELECTRIFICATION
 - PROPOSED PARAPET MODIFICATIONS
 - PROPOSED RETAINING WALL
 - PROPOSED FENCING
 - PROPOSED BOUNDARY WALL
 - PROPOSED TRACK CROSSING UTILITY DIVERSIONS
 - PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
 - PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
 - OHLE - PROPOSED POLE / MAST
 - OHLE - PROPOSED CABLE ANCHOR
 - OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
 - OHLE - PROPOSED M&L TRACK GANTERY
 - OHLE - PROPOSED BRACKET FRINGS AT STRUCTURES
 - PROPOSED TEMPORARY COMPOUND
 - PROPOSED SUBSTATION COMPOUND
 - PROPOSED ELECTRICAL SUBSTATION
 - PROPOSED SIGNAL EQUIPMENT BUILDING

© Irish Rail (2023). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of Irish Rail.
 © Ordnance Survey Ireland and government of Ireland. All G.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 002075/22. (OS Aerial Data or OS Live Data)
 A Survey No. 2022/23, NMA, 150 (OS Vector Data).
 All elevations are in metres and refer to OS Geoid Model.
 © (2023) Plans have been drafted by existing Project Control.
 All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS station Vainigi College (TL03).



Rev	Date	Drn	CHKD	Appr'd	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

Client: **Irish Rail** / **Irish Rail**

Scale: 1:1250 @ A0

Date: 29.09.22

Project Code: 759999

Issue: TTA

Drawn: [Signature]

Checked: [Signature]

Approved: [Signature]

Project Title: **DART+ SOUTH WEST**

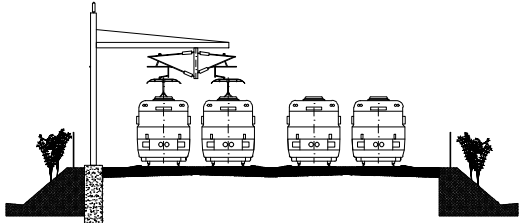
Drawing Title: **GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 5 OF 17**

Drawing File Name: **DP-04-23-DWG-CV-TTA-21266**

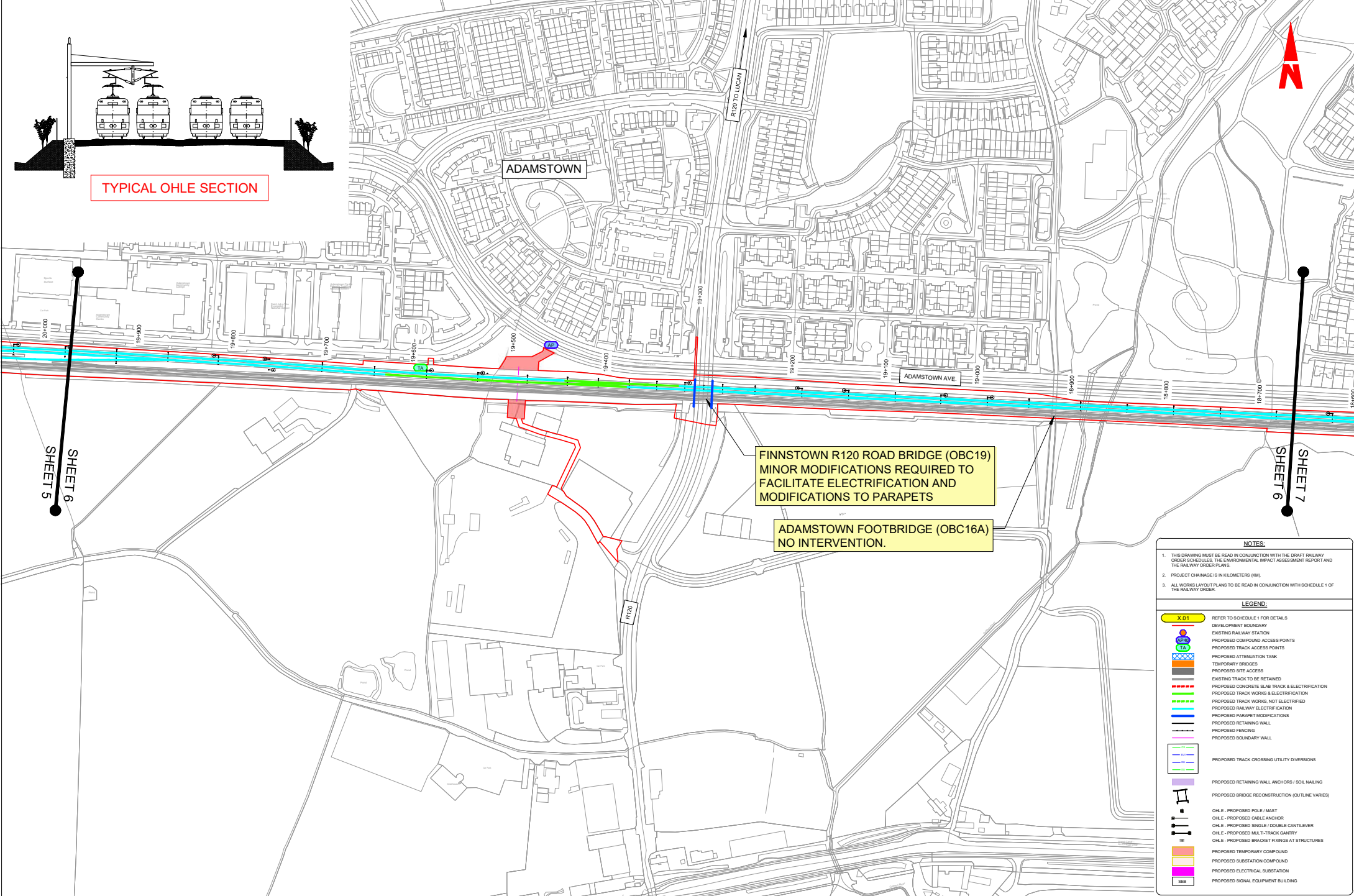
Version: **v01**

Status: **S3**

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



TYPICAL OHLE SECTION



NOTES:

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
- PROJECT CHANGE IS IN KILOMETERS (KM).
- ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

	REFER TO SCHEDULE 1 FOR DETAILS
	DEVELOPMENT BOUNDARY
	EXISTING RAILWAY STATION
	PROPOSED COMPOUND ACCESS POINTS
	PROPOSED TRACK ACCESS POINTS
	PROPOSED ATTENUATION TANK
	TEMPORARY BRIDGES
	PROPOSED SITE ACCESS
	EXISTING TRACK TO BE RETAINED
	PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
	PROPOSED TRACK WORKS & ELECTRIFICATION
	PROPOSED TRACK WORKS, NOT ELECTRIFIED
	PROPOSED RAILWAY ELECTRIFICATION
	PROPOSED PARAPET MODIFICATIONS
	PROPOSED RETAINING WALL
	PROPOSED FENCING
	PROPOSED BOUNDARY WALL
	PROPOSED TRACK CROSSING UTILITY DIVERSIONS
	PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
	PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
	OHLE - PROPOSED POLE / MAST
	OHLE - PROPOSED CABLE ANCHOR
	OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
	OHLE - PROPOSED M&L TRACK GANTTRY
	OHLE - PROPOSED BRACKET FURUS AT STRUCTURES
	PROPOSED TEMPORARY COMPOUND
	PROPOSED SUBSTATION COMPOUND
	PROPOSED ELECTRICAL SUBSTATION
	PROPOSED SIGNAL EQUIPMENT BUILDING

© Irish Rail (2023). This drawing is confidential and the copyright is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of Irish Rail.
 © Ordnance Survey Survey No. 00207522 (OSi Aerial Data) or OSi (Satellite Data) & Survey No. 20202030, MMA, 180 (OSi Vector Data).
 All measurements are in metres and centimetres to OSi Geoid Model.
 © 2023/23. All rights reserved. All other trademarks are the property of their respective owners.
 All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OSi active GPS station Vauxley College (TL03).

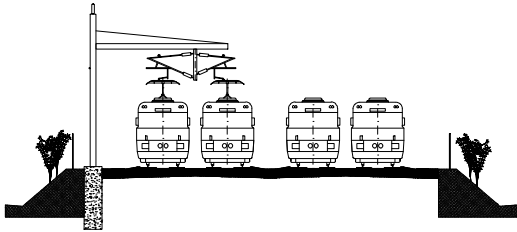


Rev	Date	Drn	CHK'd	App'd	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

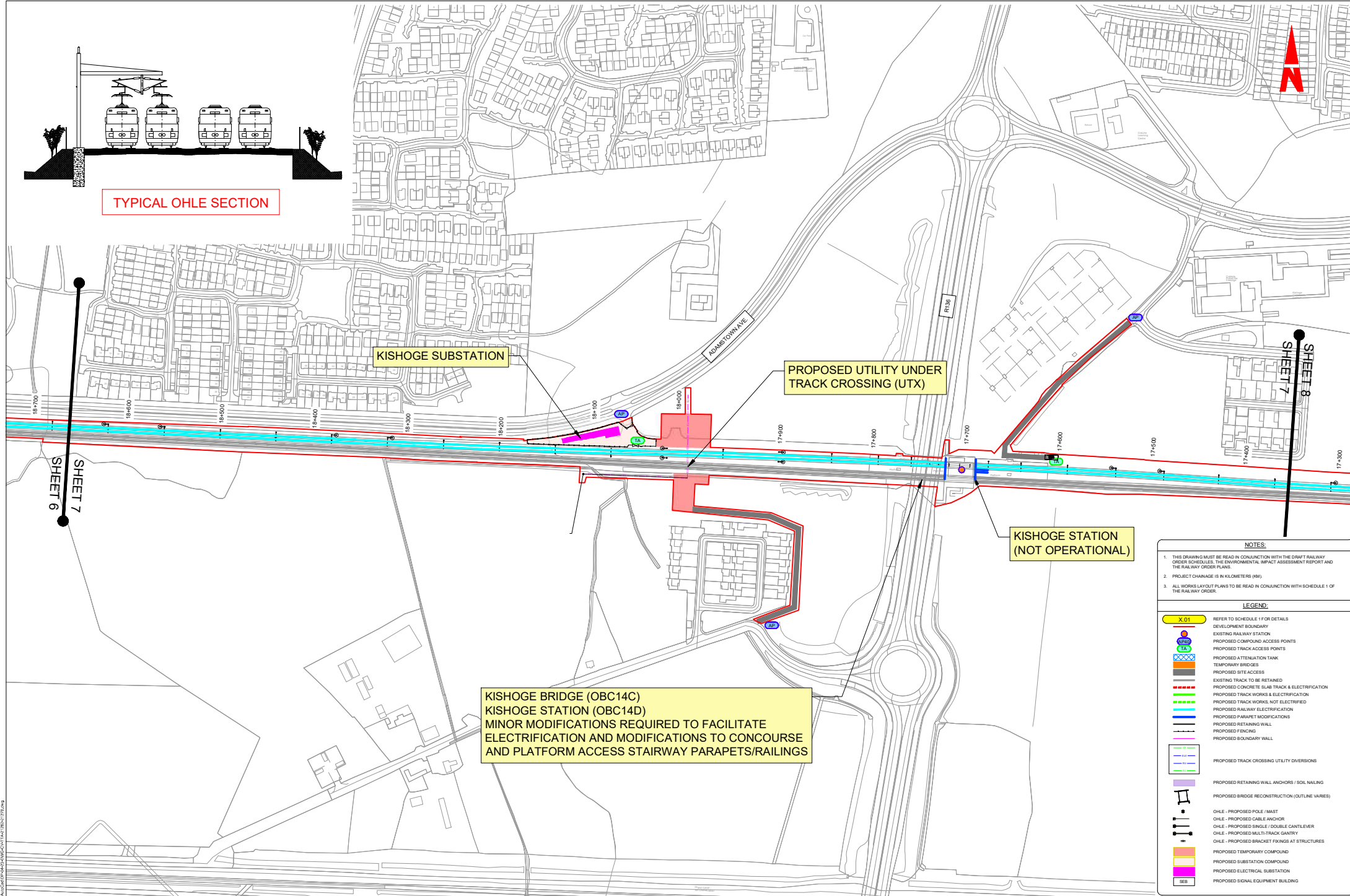
Date: 29.09.22 Scale: 1:1250 @ A0
 Project Code: 759999 Issue: TTA QMS Code:

Drawn: N.T.S. @ AJL
 Checked: J.P.
 Approved: J.P.

DART+ SOUTH WEST
 Drawing Title: GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 6 OF 17
 Drawing File Name: DP-04-23-DWG-CV-TTA-21267
 Version: v01 Status: S3



TYPICAL OHLE SECTION



KISHOGE SUBSTATION

PROPOSED UTILITY UNDER TRACK CROSSING (UTX)

KISHOGE STATION (NOT OPERATIONAL)

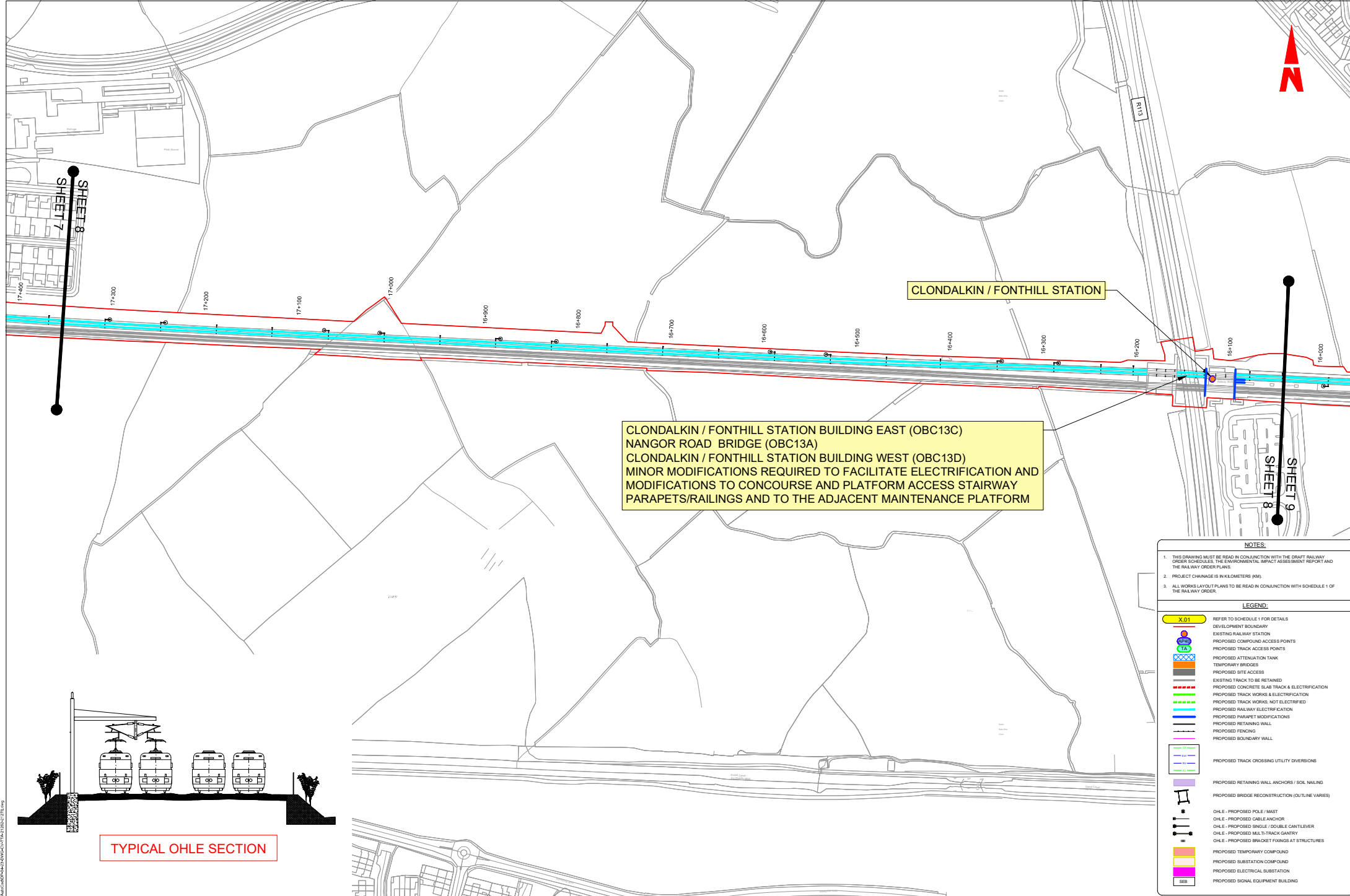
KISHOGE BRIDGE (OBC14C)
KISHOGE STATION (OBC14D)
MINOR MODIFICATIONS REQUIRED TO FACILITATE ELECTRIFICATION AND MODIFICATIONS TO CONCOURSE AND PLATFORM ACCESS STAIRWAY PARAPETS/RAILINGS

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

	REFER TO SCHEDULE 1 FOR DETAILS
	DEVELOPMENT BOUNDARY
	EXISTING RAILWAY STATION
	PROPOSED TRACK ACCESS POINTS
	PROPOSED TRACK ACCESS POINTS
	PROPOSED ATTENUATION TANK
	PROPOSED SITE ACCESS
	PROPOSED SITE ACCESS
	EXISTING TRACK TO BE RETAINED
	PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
	PROPOSED TRACK WORKS & ELECTRIFICATION
	PROPOSED TRACK WORKS, NOT ELECTRIFIED
	PROPOSED RAILWAY ELECTRIFICATION
	PROPOSED PARAPET MODIFICATIONS
	PROPOSED RETAINING WALL
	PROPOSED FENCING
	PROPOSED BOUNDARY WALL
	PROPOSED TRACK CROSSING UTILITY DIVERSIONS
	PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
	PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
	OHLE - PROPOSED POLE / MAST
	OHLE - PROPOSED CABLE ANCHOR
	OHLE - PROPOSED SINGLE / DOUBLE GANTLEVER
	OHLE - PROPOSED MULTI-TRACK GANTY
	OHLE - PROPOSED BASKET FIXINGS AT STRUCTURES
	PROPOSED TEMPORARY COMPOUND
	PROPOSED SUBSTATION COMPOUND
	PROPOSED ELECTRICAL SUBSTATION
	PROPOSED SIGNAL EQUIPMENT BUILDING

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

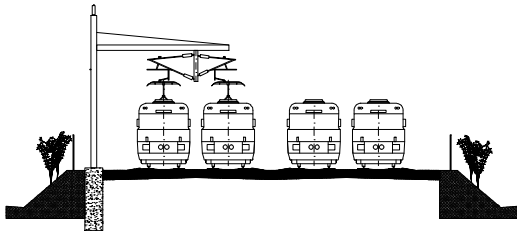


CLONDALKIN / FONTHILL STATION BUILDING EAST (OBC13C)
NANGOR ROAD BRIDGE (OBC13A)
CLONDALKIN / FONTHILL STATION BUILDING WEST (OBC13D)
MINOR MODIFICATIONS REQUIRED TO FACILITATE ELECTRIFICATION AND
MODIFICATIONS TO CONCOURSE AND PLATFORM ACCESS STAIRWAY
PARAPETS/RAILINGS AND TO THE ADJACENT MAINTENANCE PLATFORM

- NOTES:**
1. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 2. PROJECT CHANGE IS IN KILOMETERS (KM).
 3. ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

- LEGEND:**
- | | |
|--|---|
| | REFER TO SCHEDULE 1 FOR DETAILS |
| | DEVELOPMENT BOUNDARY |
| | EXISTING RAILWAY STATION |
| | PROPOSED COMPOUND ACCESS POINTS |
| | PROPOSED TRACK ACCESS POINTS |
| | PROPOSED ATTENUATION TANK |
| | TEMPORARY BRIDGES |
| | PROPOSED SITE ACCESS |
| | EXISTING TRACK TO BE RETAINED |
| | PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION |
| | PROPOSED TRACK WORKS ELECTRIFICATION |
| | PROPOSED TRACK WORKS, NOT ELECTRIFIED |
| | PROPOSED RAILWAY ELECTRIFICATION |
| | PROPOSED PARAPET MODIFICATIONS |
| | PROPOSED RETAINING WALL |
| | PROPOSED FENCING |
| | PROPOSED BOUNDARY WALL |
| | PROPOSED TRACK CROSSING UTILITY DIVERSIONS |
| | PROPOSED RETAINING WALL ANCHORS / SOIL NAILING |
| | PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES) |
| | O.H.E. - PROPOSED POLE / MAST |
| | O.H.E. - PROPOSED CABLE ANCHOR |
| | O.H.E. - PROPOSED SINGLE / DOUBLE CANTILEVER |
| | O.H.E. - PROPOSED MULTI-TRACK GANTRY |
| | O.H.E. - PROPOSED BRACKET FENCING AT STRUCTURES |
| | PROPOSED TEMPORARY COMPOUND |
| | PROPOSED SUBSTATION COMPOUND |
| | PROPOSED ELECTRICAL SUBSTATION |
| | PROPOSED SIGNAL EQUIPMENT BUILDING |

TYPICAL OHLE SECTION



© Irish Rail (2023). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part for any purpose without the prior permission of Irish Rail. © Ordnance Survey (Irish and Great Britain). All O.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 0038732 (OS Aerial Data) or OS (Live Data). A Survey No. 0022019; NMA, 160 (OS Vector Data). All elevations are in metres and relate to OS Geoid Model. © (2023) All other marks shall be defined by existing Project Control. All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS datum Trinity College (ELL0).



Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

Client:

Engineering Designer:

Scale: 1:250 @ A0

Date: 29.09.22

Project Code: T99009

Issue: TTA

QMS Code: [Blank]

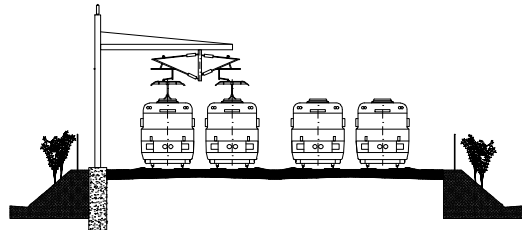
Drawn: [Blank]

Checked: [Blank]

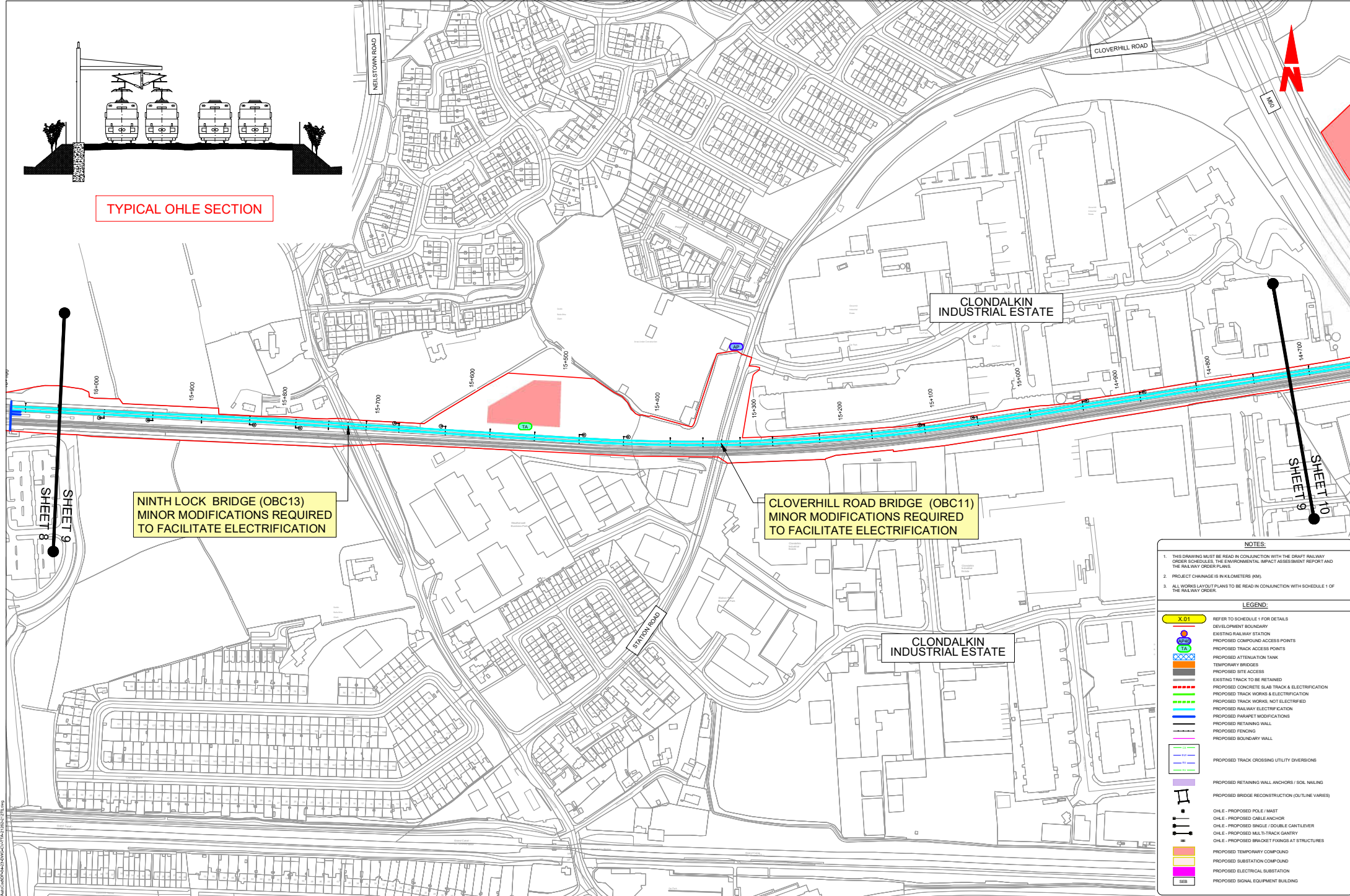
Approved: [Blank]

CS: [Blank]

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



TYPICAL OHLE SECTION

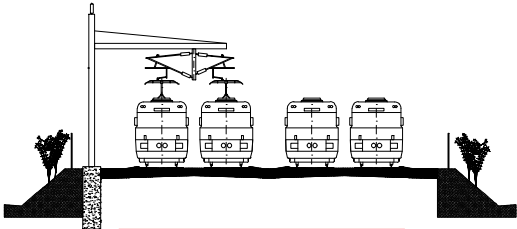


NINTH LOCK BRIDGE (OBC13)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION

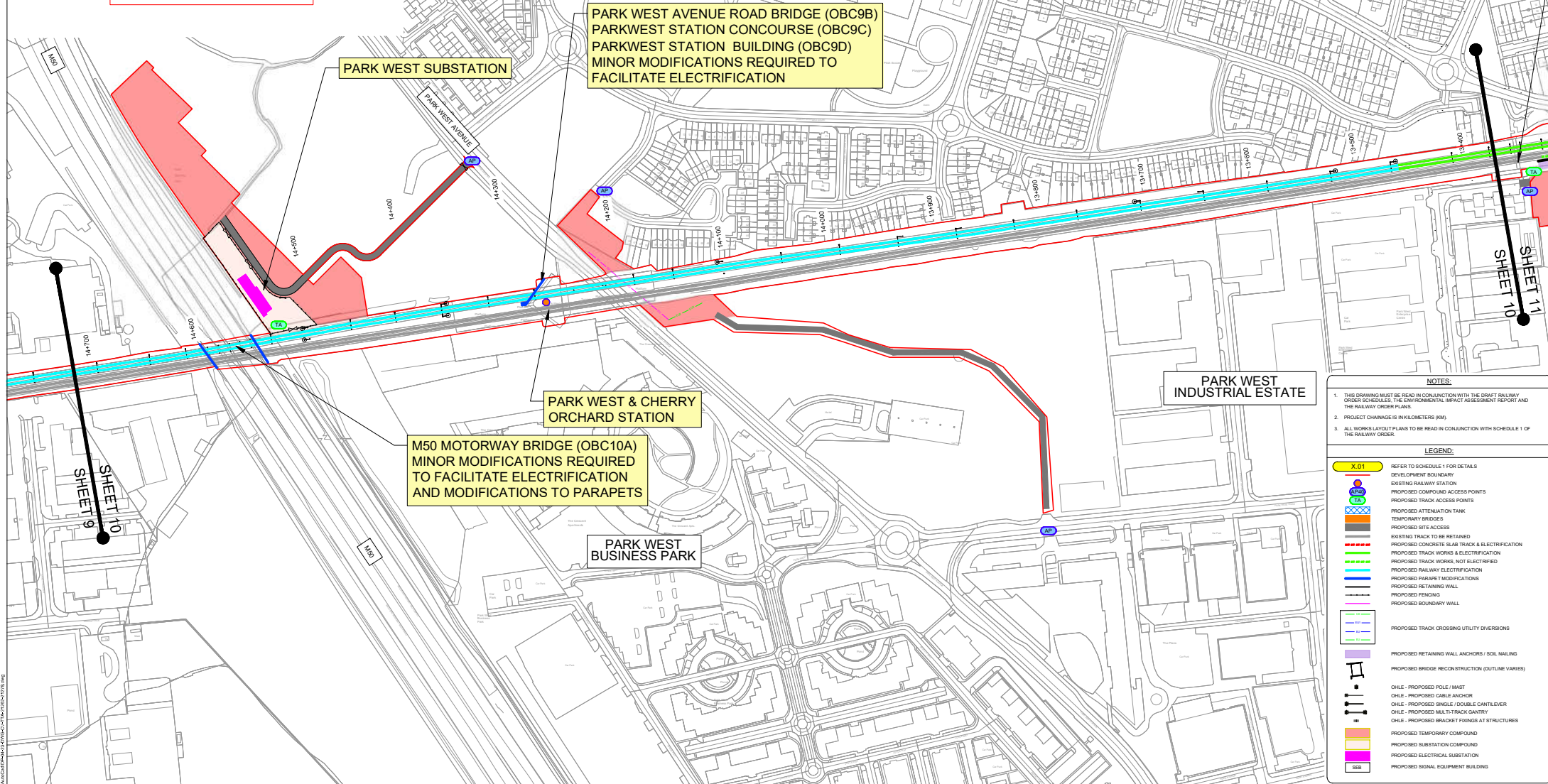
CLOVERHILL ROAD BRIDGE (OBC11)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

- LEGEND:**
- X 01 REFER TO SCHEDULE 1 FOR DETAILS
 - DEVELOPMENT BOUNDARY
 - EXISTING RAILWAY STATION
 - PROPOSED COMPOUND ACCESS POINTS
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED ATTENUATION TANK
 - TEMPORARY BRIDGES
 - PROPOSED SITE ACCESS
 - EXISTING TRACK TO BE RETAINED
 - PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
 - PROPOSED TRACK WORKS & ELECTRIFICATION
 - PROPOSED TRACK WORKS, NOT ELECTRIFIED
 - PROPOSED RAILWAY ELECTRIFICATION
 - PROPOSED PARAPET MODIFICATIONS
 - PROPOSED RETAINING WALL
 - PROPOSED FENCING
 - PROPOSED BOUNDARY WALL
 - PROPOSED TRACK CROSSING UTILITY DIVERSIONS
 - PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
 - PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
 - O.H.E. - PROPOSED POLE / MAST
 - O.H.E. - PROPOSED CABLE ANCHOR
 - O.H.E. - PROPOSED SINGLE / DOUBLE CANTILEVER
 - O.H.E. - PROPOSED MULTI-TRACK GANTRY
 - O.H.E. - PROPOSED BRACKET FENCING AT STRUCTURES
 - PROPOSED TEMPORARY COMPOUND
 - PROPOSED SUBSTATION COMPOUND
 - PROPOSED ELECTRICAL SUBSTATION
 - PROPOSED SIGNAL EQUIPMENT BUILDING



TYPICAL OHLE SECTION



PARK WEST AVENUE ROAD BRIDGE (OBC9B)
 PARKWEST STATION CONCOURSE (OBC9C)
 PARKWEST STATION BUILDING (OBC9D)
 MINOR MODIFICATIONS REQUIRED TO FACILITATE ELECTRIFICATION

PARK WEST SUBSTATION

PARK WEST & CHERRY ORCHARD STATION

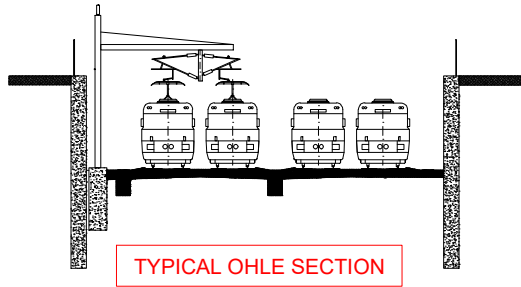
M50 MOTORWAY BRIDGE (OBC10A)
 MINOR MODIFICATIONS REQUIRED TO FACILITATE ELECTRIFICATION AND MODIFICATIONS TO PARAPETS

PARK WEST BUSINESS PARK

PARK WEST INDUSTRIAL ESTATE

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

- LEGEND:**
- X 01 REFER TO SCHEDULE 1 FOR DETAILS
 - DEVELOPMENT BOUNDARY
 - EXISTING RAILWAY STATION
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED ATTENUATION TANK
 - TEMPORARY BRIDGES
 - PROPOSED SITE ACCESS
 - EXISTING TRACK TO BE RETAINED
 - PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
 - PROPOSED TRACK WORKS ELECTRIFICATION
 - PROPOSED TRACK WORKS, NOT ELECTRIFIED
 - PROPOSED RAILWAY ELECTRIFICATION
 - PROPOSED PARAPET MODIFICATIONS
 - PROPOSED RETAINING WALL
 - PROPOSED FENCING
 - PROPOSED BOUNDARY WALL
 - PROPOSED TRACK CROSSING UTILITY DIVERSIONS
 - PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
 - PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
 - OHLE - PROPOSED POLE / MAST
 - OHLE - PROPOSED CABLE ANCHOR
 - OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
 - OHLE - PROPOSED M&L TRACK GANTRY
 - OHLE - PROPOSED BRACKET FIXINGS AT STRUCTURES
 - PROPOSED TEMPORARY COMPOUND
 - PROPOSED SUBSTATION COMPOUND
 - PROPOSED ELECTRICAL SUBSTATION
 - PROPOSED SIGNAL EQUIPMENT BUILDING



CHERRY ORCHARD FOOTBRIDGE (OBC8B)
MINOR MODIFICATIONS REQUIRED TO
FACILITATE ELECTRIFICATION

REALIGNMENTS AND WIDENING
OF LE FANU ROAD

TEMPORARY SINGLE LANE NORTH
BOUND ONLY CROSSING DURING
BRIDGE CONSTRUCTION.

LE FANU ROAD BRIDGE (OBC7)
RECONSTRUCT BRIDGE.

NEW FOUR
TRACK SECTION

KYLEMORE ROAD BRIDGE (OBC5A)
RECONSTRUCT BRIDGE.

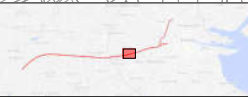
COMBINED SEWER DIVERSION

PARK WEST
INDUSTRIAL ESTATE

- NOTES:
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

- LEGEND:
- X.01 REFER TO SCHEDULE 1 FOR DETAILS
 - DEVELOPMENT BOUNDARY
 - EXISTING RAILWAY STATION
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED ATTENUATION TANK
 - PROPOSED SITE ACCESS
 - EXISTING TRACK TO BE RETAINED
 - PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
 - PROPOSED TRACK WORKS & ELECTRIFICATION
 - PROPOSED TRACK WORKS, NOT ELECTRIFIED
 - PROPOSED RAILWAY ELECTRIFICATION
 - PROPOSED PARAPET MODIFICATIONS
 - PROPOSED RETAINING WALL
 - PROPOSED FENCING
 - PROPOSED BOUNDARY WALL
 - PROPOSED TRACK CROSSING UTILITY DIVERSIONS
 - PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
 - PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
 - O.H.E. - PROPOSED POLE / MAST
 - O.H.E. - PROPOSED CABLE ANCHOR
 - O.H.E. - PROPOSED SINGLE / DOUBLE CANTILEVER
 - O.H.E. - PROPOSED M.L.T TRACK GANTY
 - O.H.E. - PROPOSED BRACKET FUNDUS AT STRUCTURES
 - PROPOSED TEMPORARY COMPOUND
 - PROPOSED SUBSTATION COMPOUND
 - PROPOSED ELECTRICAL SUBSTATION
 - PROPOSED SIGNAL EQUIPMENT BUILDING

© Irish Rail (2022). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part, used for any purpose without the prior permission of Irish Rail.
© Ordnance Survey (used with permission of license). All G.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 0038722. (OSi Asset Data or OSi User Data)
& Survey No. 2022019; NMA, 180 (OSi Vector Data).
All dimensions are in metres and unless to OSi Geospatial
© 2022/23. Plans have been modified by issuing Project Change.
All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OSi active GPS station Tynagh College (TL02).



Rev	Date	Drn	Chk1	Appr2	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

Client: **Irish Rail** / **Irish Rail**

Scale: 1:1250 @ A0

Date: 29.09.22

Issue: N.T.S. (B.A.)

Project Code: 2040

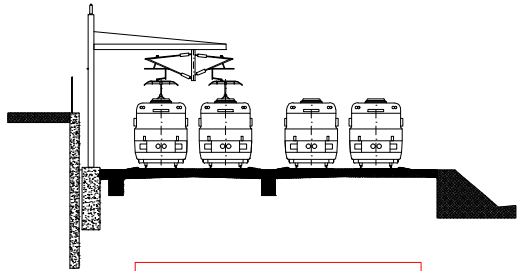
Author: TTA

Checked: J.P.

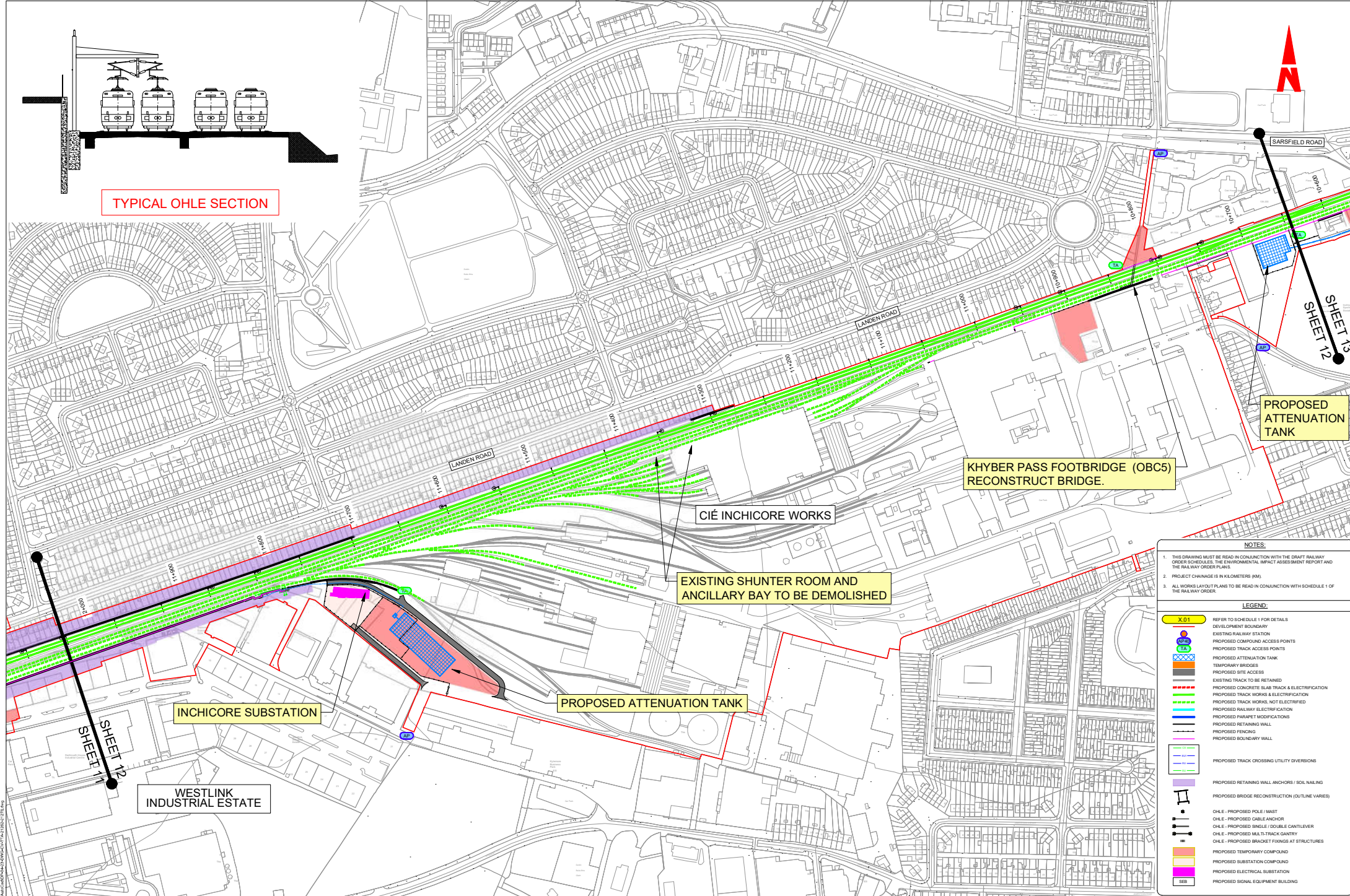
Approved: C.S.

Project Title: **DART+ SOUTH WEST**

Project File Name: DP-04-23-DWG-CV-TTA-21272



TYPICAL OHLE SECTION



SHEET 12
SHEET 13

KHYBER PASS FOOTBRIDGE (OBC5)
RECONSTRUCT BRIDGE.

CIÉ INCHICORE WORKS

EXISTING SHUNTER ROOM AND
ANCILLARY BAY TO BE DEMOLISHED

PROPOSED ATTENUATION TANK

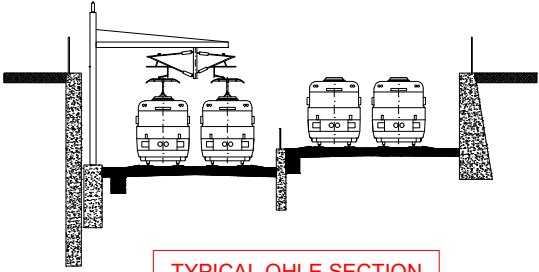
INCHICORE SUBSTATION

WESTLINK
INDUSTRIAL ESTATE

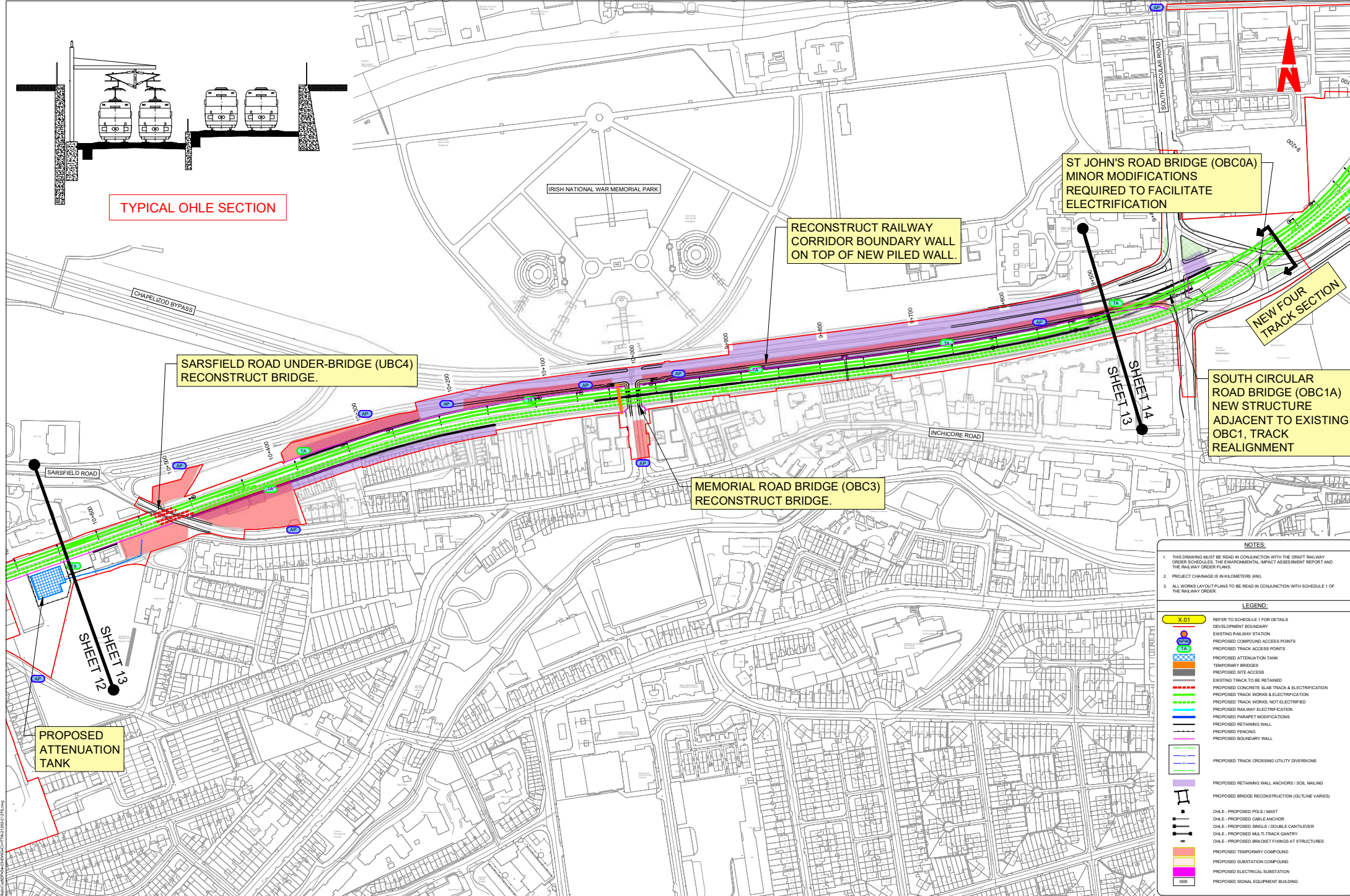
- NOTES:
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHAINAGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

X 01	REFER TO SCHEDULE 1 FOR DETAILS
[Symbol]	DEVELOPMENT BOUNDARY
[Symbol]	EXISTING RAILWAY STATION
[Symbol]	PROPOSED TRACK ACCESS POINTS
[Symbol]	PROPOSED ATTENUATION TANK
[Symbol]	TEMPORARY BRIDGES
[Symbol]	PROPOSED SITE ACCESS
[Symbol]	EXISTING TRACK TO BE RETAINED
[Symbol]	PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
[Symbol]	PROPOSED TRACK WORKS & ELECTRIFICATION
[Symbol]	PROPOSED TRACK WORKS, NOT ELECTRIFIED
[Symbol]	PROPOSED RAILWAY ELECTRIFICATION
[Symbol]	PROPOSED PARAPET MODIFICATIONS
[Symbol]	PROPOSED RETAINING WALL
[Symbol]	PROPOSED FENCING
[Symbol]	PROPOSED BOUNDARY WALL
[Symbol]	PROPOSED TRACK CROSSING UTILITY DIVERSIONS
[Symbol]	PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
[Symbol]	PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
[Symbol]	O.H.E. - PROPOSED POLE / MAST
[Symbol]	O.H.E. - PROPOSED CABLE ANCHOR
[Symbol]	O.H.E. - PROPOSED SINGLE / DOUBLE CANTILEVER
[Symbol]	O.H.E. - PROPOSED M&T TRACK GANTRY
[Symbol]	O.H.E. - PROPOSED BRACKET FUNDS AT STRUCTURES
[Symbol]	PROPOSED TEMPORARY COMPOUND
[Symbol]	PROPOSED SUBSTATION COMPOUND
[Symbol]	PROPOSED ELECTRICAL SUBSTATION
[Symbol]	PROPOSED SIGNAL EQUIPMENT BUILDING



TYPICAL OHLE SECTION



SARSFIELD ROAD UNDER-BRIDGE (UBC4)
RECONSTRUCT BRIDGE.

RECONSTRUCT RAILWAY
CORRIDOR BOUNDARY WALL
ON TOP OF NEW PILED WALL.

ST JOHN'S ROAD BRIDGE (OBC0A)
MINOR MODIFICATIONS
REQUIRED TO FACILITATE
ELECTRIFICATION

SOUTH CIRCULAR
ROAD BRIDGE (OBC1A)
NEW STRUCTURE
ADJACENT TO EXISTING
OBC1, TRACK
REALIGNMENT

MEMORIAL ROAD BRIDGE (OBC3)
RECONSTRUCT BRIDGE.

NEW FOUR
TRACK SECTION

PROPOSED
ATTENUATION
TANK

- NOTES:**
1. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 2. PROJECT CHANGE IS IN KILOMETERS (KM).
 3. ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

	REFER TO SCHEDULE 1 FOR DETAILS
	DEVELOPMENT BOUNDARY
	EXISTING RAILWAY STATION
	PROPOSED COMPOUND ACCESS POINTS
	PROPOSED TRACK ACCESS POINTS
	PROPOSED ATTENUATION TANK
	TEMPORARY BRIDGES
	PROPOSED SITE ACCESS
	EXISTING TRACK TO BE RETAINED
	PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
	PROPOSED TRACK WORKS & ELECTRIFICATION
	PROPOSED TRACK WORKS, NOT ELECTRIFIED
	PROPOSED RAILWAY ELECTRIFICATION
	PROPOSED PARAPET MODIFICATIONS
	PROPOSED RETAINING WALL
	PROPOSED FENCING
	PROPOSED BOUNDARY WALL
	PROPOSED TRACK CROSSING UTILITY DIVERSIONS
	PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
	PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
	OHLE - PROPOSED POLE / MAST
	OHLE - PROPOSED CABLE ANCHOR
	OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
	OHLE - PROPOSED MULLION TRACK GANTRY
	OHLE - PROPOSED BRACKET FUNGUS AT STRUCTURES
	PROPOSED TEMPORARY COMPOUND
	PROPOSED SUBSTATION COMPOUND
	PROPOSED ELECTRICAL SUBSTATION
	PROPOSED SIGNAL EQUIPMENT BUILDING

© Irish Rail (2023). This drawing is confidential and the copyright is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of Irish Rail.
© Ordnance Survey (Irish) and other government of Ireland. All G.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 002872 (OS Open Data or OS User Data).
& Survey No. 20220703/MAA, 180 (OS Vector Data).
All dimensions are in metres and unless to OS (Open Model) or OS (Open Data) are in metres and unless to OS (Open Model).
All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS station Tanyahy College (TL02).

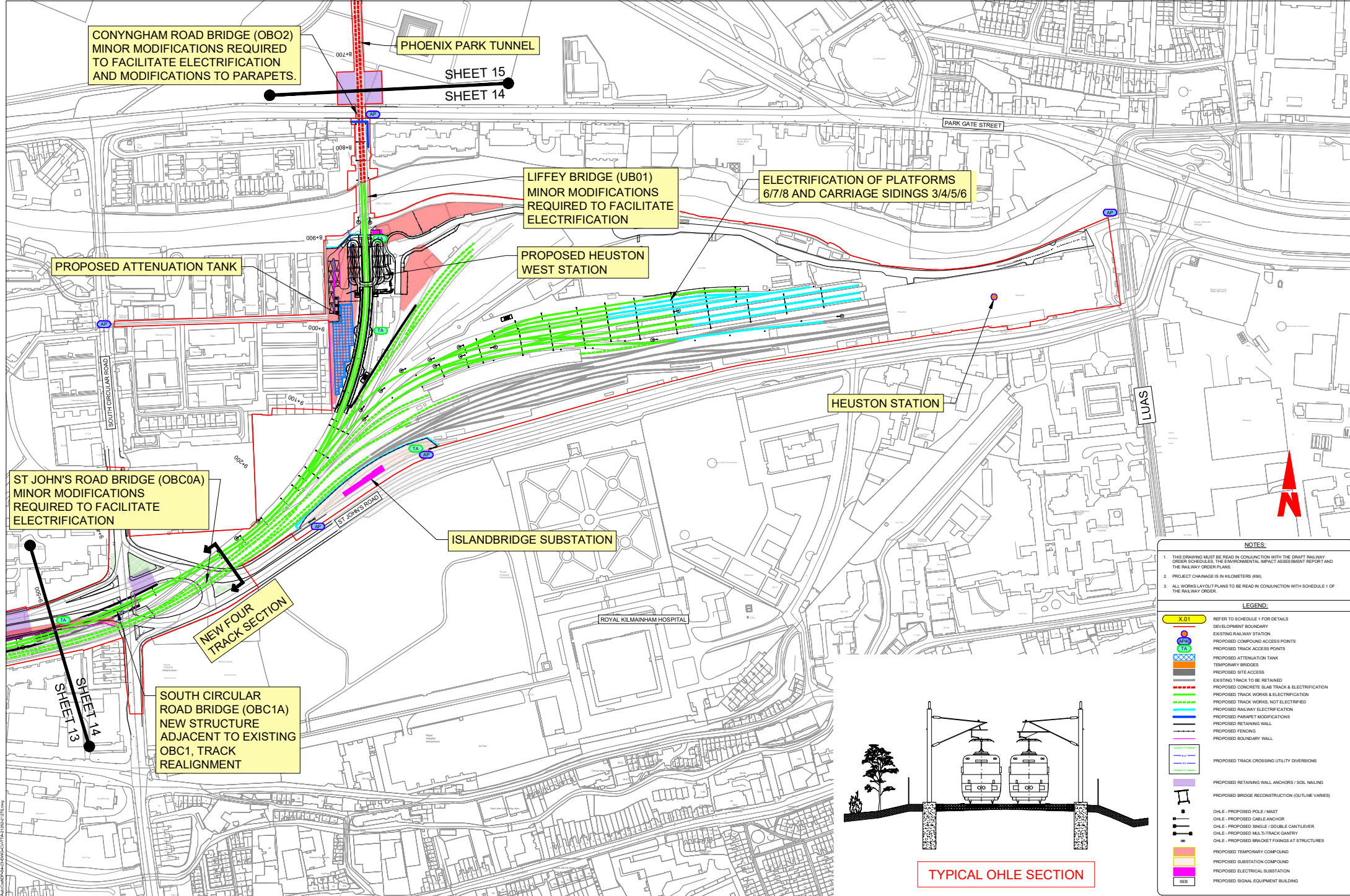


Rev	Date	Drn	CHKD	Appr'd	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

Date: 29.09.22
 Scale: 1:1250 @ A0
 Drawn: N.T.S. (B.S.)
 Checked: JP
 Approved: CS
 Project Code: 000000
 Issue: TTA
 OMS Code:

Project File: DART+ SOUTH WEST
 Drawing Title: GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 13 OF 17
 Drawing File Name: DP-04-23-DWG-CV-TTA-21274
 Version: v01
 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



CONYNGHAM ROAD BRIDGE (OBO2)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION
AND MODIFICATIONS TO PARAPETS.

PHOENIX PARK TUNNEL

SHEET 15
SHEET 14

LIFFEY BRIDGE (UB01)
MINOR MODIFICATIONS
REQUIRED TO FACILITATE
ELECTRIFICATION

ELECTRIFICATION OF PLATFORMS
6/7/8 AND CARRIAGE SIDINGS
3/4/5/6

PROPOSED ATTENUATION TANK

PROPOSED HEUSTON
WEST STATION

HEUSTON STATION

LUAS

ST JOHN'S ROAD BRIDGE (OBC0A)
MINOR MODIFICATIONS
REQUIRED TO FACILITATE
ELECTRIFICATION

ISLANDBRIDGE SUBSTATION

ROYAL KILMAINHAM HOSPITAL

NEW FOUR
TRACK SECTION

SOUTH CIRCULAR
ROAD BRIDGE (OBC1A)
NEW STRUCTURE
ADJACENT TO EXISTING
OBC1, TRACK
REALIGNMENT

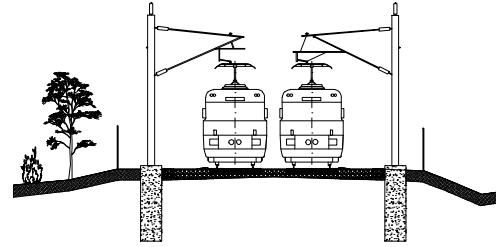
SHEET 14
SHEET 13

NOTES:

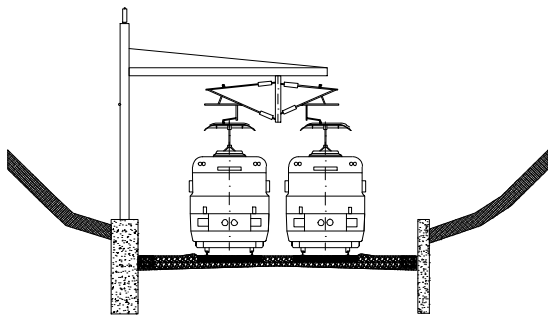
1. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
2. PROJECT CHANGE IS IN KILOMETERS (KM).
3. ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

- X 01** REFER TO SCHEDULE 1 FOR DETAILS
- EXISTING RAILWAY STATION
- PROPOSED COMPOUND ACCESS POINTS
- PROPOSED TRACK ACCESS POINTS
- PROPOSED ATTENUATION TANK
- TEMPORARY BRIDGES
- PROPOSED SITE ACCESS
- EXISTING TRACK TO BE RETAINED
- PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS
- PROPOSED RETAINING WALL
- PROPOSED FENCING
- PROPOSED BOUNDARY WALL
- PROPOSED TRACK CROSSING UTILITY DIVERSIONS
- PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
- PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
- O.H.E. - PROPOSED POLE / MAST
- O.H.E. - PROPOSED CABLE ANCHOR
- O.H.E. - PROPOSED SINGLE / DOUBLE CANTILEVER
- O.H.E. - PROPOSED M.U. TRACK GANTRY
- O.H.E. - PROPOSED BRACKET FENCING AT STRUCTURES
- PROPOSED TEMPORARY COMPOUND
- PROPOSED SUBSTATION COMPOUND
- PROPOSED ELECTRICAL SUBSTATION
- PROPOSED SIGNAL EQUIPMENT BUILDING



TYPICAL OHE SECTION



TYPICAL OHLE SECTION

McKEE BARRACKS BRIDGE (OBO3)
MODIFICATIONS TO PARAPETS.

EMERGENCY TUNNEL EGRESS
ROUTE (PASSENGER)

BLACKHORSE AVENUE BRIDGE (OBO4)
MINOR MODIFICATIONS REQUIRED TO
FACILITATE ELECTRIFICATION AND
MODIFICATIONS TO PARAPETS.

SHEET 16
SHEET 15

AUGHRIM STREET



DUBLIN ZOO

GARDA
HEADQUARTERS

EMERGENCY SERVICE
PERSONAL ACCESS TO TUNNEL

PHOENIX PARK TUNNEL

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE GREAT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

- LEGEND:**
- X.01 REFER TO SCHEDULE 1 FOR DETAILS
 - DEVELOPMENT BOUNDARY
 - EXISTING RAILWAY STATION
 - PROPOSED COMPOUND ACCESS POINTS
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED ATTENUATION TANK
 - TEMPORARY BRIDGES
 - PROPOSED SITE ACCESS
 - EXISTING TRACK TO BE RETAINED
 - PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
 - PROPOSED TRACK WORKS & ELECTRIFICATION
 - PROPOSED TRACK WORKS, NOT ELECTRIFIED
 - PROPOSED RAILWAY ELECTRIFICATION
 - PROPOSED PARAPET MODIFICATIONS
 - PROPOSED RETAINING WALL
 - PROPOSED FENCING
 - PROPOSED BOUNDARY WALL
 - PROPOSED TRACK CROSSING UTILITY DIVERSIONS
 - PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
 - PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
 - OHLE - PROPOSED POLE / MAST
 - OHLE - PROPOSED CABLE ANCHOR
 - OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
 - OHLE - PROPOSED MULTI-TRACK GANTRY
 - OHLE - PROPOSED BRACKET FURBES AT STRUCTURES
 - PROPOSED TEMPORARY COMPOUND
 - PROPOSED SUBSTATION COMPOUND
 - PROPOSED ELECTRICAL SUBSTATION
 - PROPOSED SIGNAL EQUIPMENT BUILDING

CONYNGHAM ROAD BRIDGE (OBO2)
MINOR MODIFICATIONS REQUIRED TO
FACILITATE ELECTRIFICATION AND
MODIFICATIONS TO PARAPETS.

PHOENIX PARK TUNNEL

SHEET 15
SHEET 14

PARK GATE STREET

01/17/2024 10:11:22 AM Project: DART+ South West - TTA - 2040 - 15 OF 17

© Irish Rail (2023). This drawing is confidential and the copyright in it is owned by Irish Rail. This drawing must not be either loaned, copied or otherwise reproduced in whole or in part used for any purpose without the prior permission of Irish Rail.
© Ordnance Survey Ireland and government of Ireland. All G.S. Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 0020722. (OS Aerial Data or OS Data Date)
& Survey No. 2022039; NMA, 150 (OS Vector Data).
All dimensions are in metres and unless so stated in General Model.
© 2024/2023. Plans have been modified by issuing Project Change.
All Co-ordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS Station Finglas College (ELL0).

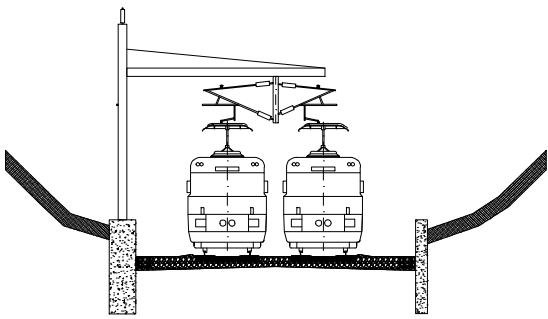


Rev	Date	Drn	Chk'd	App'd	Description
v01	10/11/22	DMP	JP	CS	PLANNING ISSUE

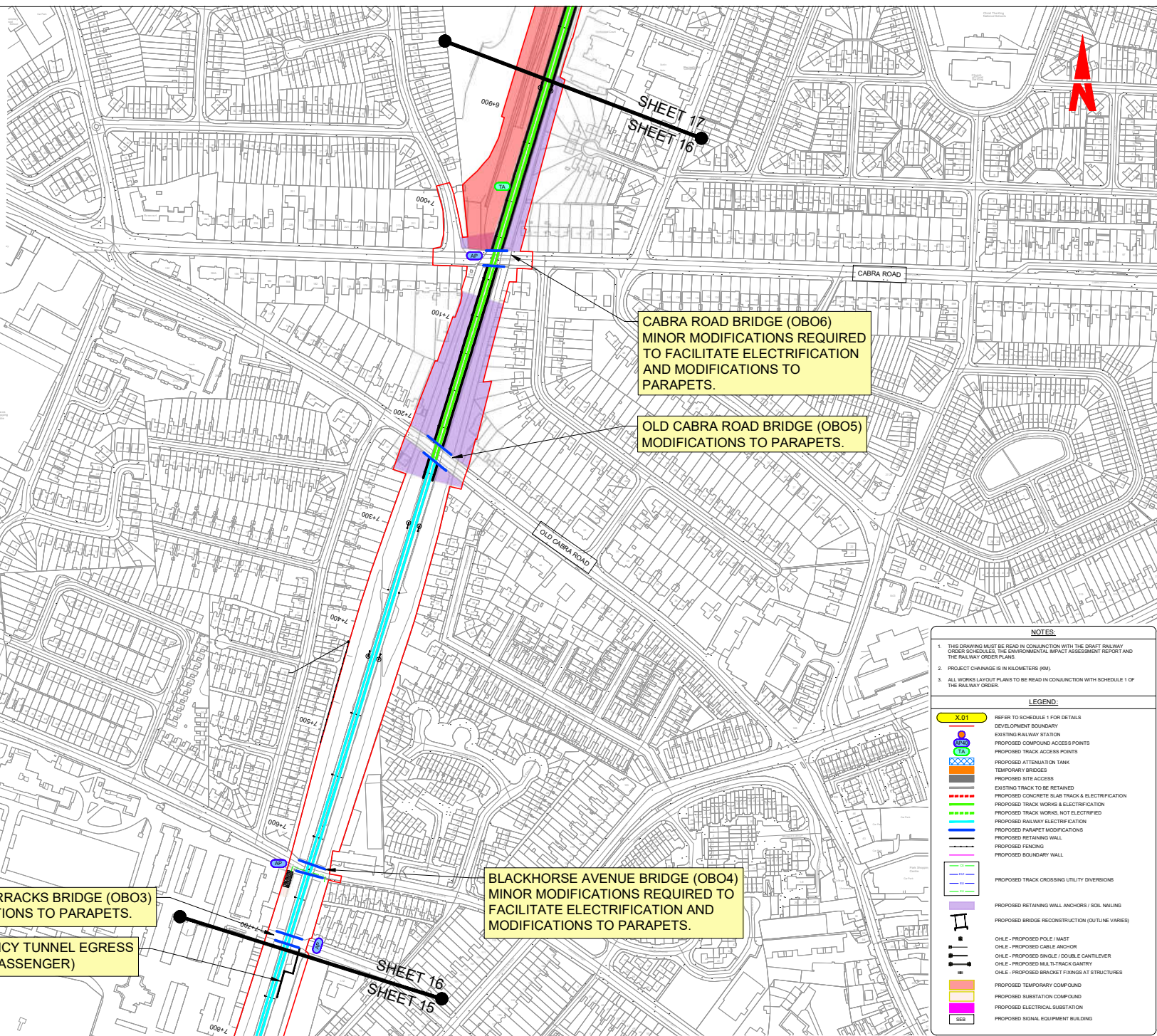
Date: 20/09/23 Scale: 1:1250 @ A0 Drawn: [] Checked: [] Approved: []
 Project Code: 2040 Issue: TTA B.0.01 QMS Code: []

Project Title: **DART+ SOUTH WEST**
 Drawing Title: **GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 15 OF 17**
 Drawing File Name: DP-04-23-DWG-CV-TTA-21276
 Version: v01 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



TYPICAL OHLE SECTION



CABRA ROAD BRIDGE (OBO6)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION
AND MODIFICATIONS TO
PARAPETS.

OLD CABRA ROAD BRIDGE (OBO5)
MODIFICATIONS TO PARAPETS.

McKEE BARRACKS BRIDGE (OBO3)
MODIFICATIONS TO PARAPETS.

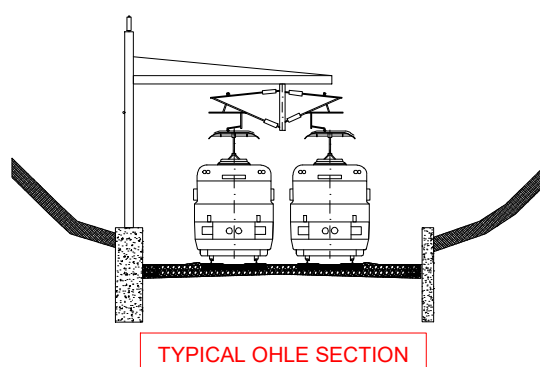
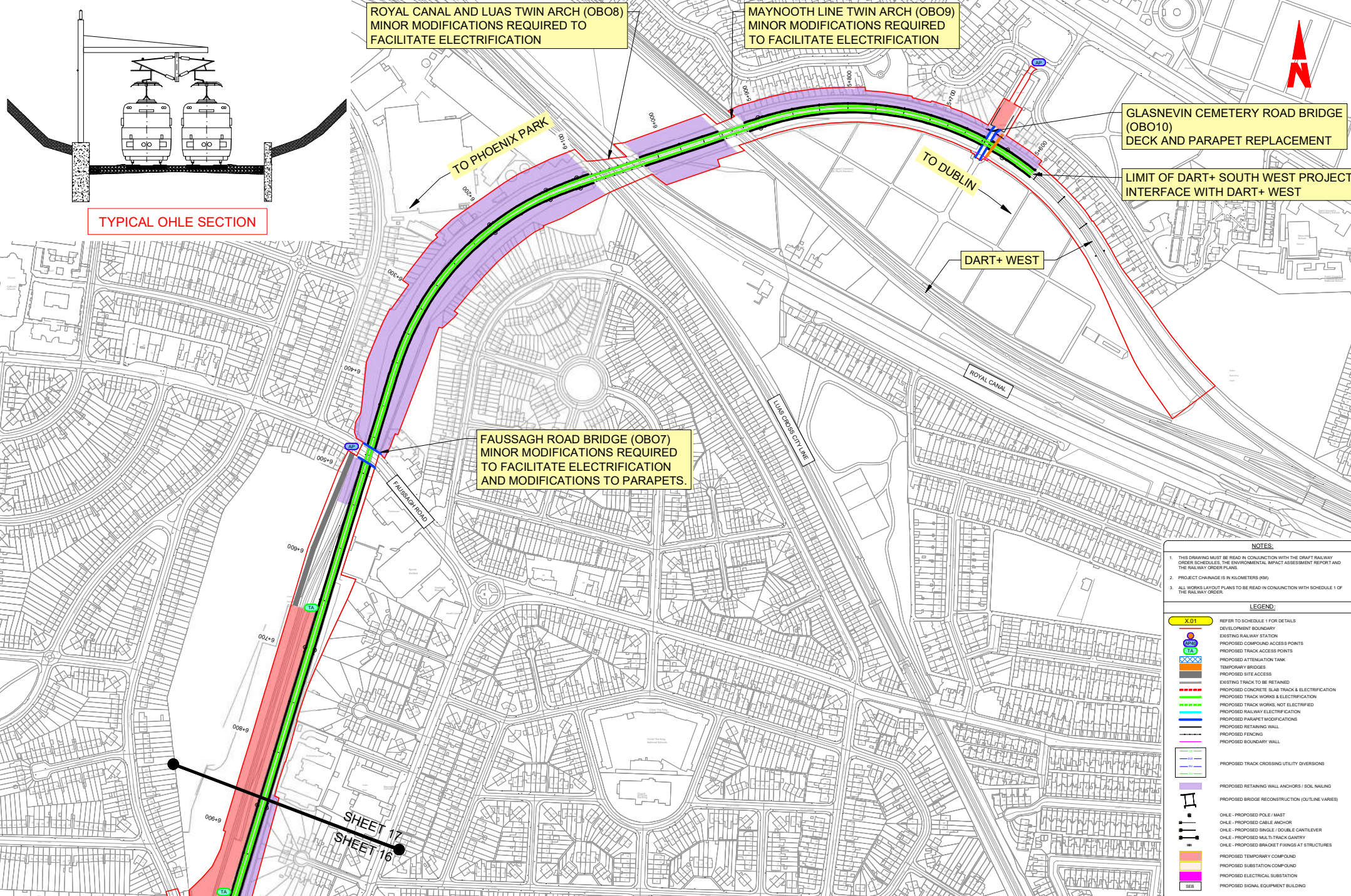
EMERGENCY TUNNEL EGRESS
ROUTE (PASSENGER)

BLACKHORSE AVENUE BRIDGE (OBO4)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION
AND
MODIFICATIONS TO PARAPETS.

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULE 1, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

LEGEND:

X.01	REFER TO SCHEDULE 1 FOR DETAILS
	DEVELOPMENT BOUNDARY
	EXISTING RAILWAY STATION
	PROPOSED COMPOUND ACCESS POINTS
	PROPOSED TRACK ACCESS POINTS
	PROPOSED ATTENUATION TANK
	TEMPORARY BRIDGES
	PROPOSED SITE ACCESS
	EXISTING TRACK TO BE RETAINED
	PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
	PROPOSED TRACK WORKS ELECTRIFICATION
	PROPOSED TRACK WORKS, NOT ELECTRIFIED
	PROPOSED RAILWAY ELECTRIFICATION
	PROPOSED PARAPET MODIFICATIONS
	PROPOSED RETAINING WALL
	PROPOSED FENCING
	PROPOSED BOUNDARY WALL
	PROPOSED TRACK CROSSING UTILITY DIVERSIONS
	PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
	PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
	OHLE - PROPOSED POLE / MAST
	OHLE - PROPOSED CABLE ANCHOR
	OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
	OHLE - PROPOSED MAST TRACK GANTRY
	OHLE - PROPOSED BRACKET FURROW AT STRUCTURES
	PROPOSED TEMPORARY COMPOUND
	PROPOSED SUBSTATION COMPOUND
	PROPOSED ELECTRICAL SUBSTATION
	PROPOSED SIGNAL EQUIPMENT BUILDING



TYPICAL OHLE SECTION

ROYAL CANAL AND LUAS TWIN ARCH (OBO8)
MINOR MODIFICATIONS REQUIRED TO
FACILITATE ELECTRIFICATION

MAYNOOTH LINE TWIN ARCH (OBO9)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION

GLASNEVIN CEMETERY ROAD BRIDGE
(OBO10)
DECK AND PARAPET REPLACEMENT

FAUSSAGH ROAD BRIDGE (OBO7)
MINOR MODIFICATIONS REQUIRED
TO FACILITATE ELECTRIFICATION
AND MODIFICATIONS TO PARAPETS.

LIMIT OF DART+ SOUTH WEST PROJECT
INTERFACE WITH DART+ WEST

SHEET 17
SHEET 16

- NOTES:**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE DRAFT RAILWAY ORDER SCHEDULES, THE ENVIRONMENTAL IMPACT ASSESSMENT REPORT AND THE RAILWAY ORDER PLANS.
 - PROJECT CHANGE IS IN KILOMETERS (KM).
 - ALL WORKS LAYOUT PLANS TO BE READ IN CONJUNCTION WITH SCHEDULE 1 OF THE RAILWAY ORDER.

- LEGEND:**
- X.01 REFER TO SCHEDULE 1 FOR DETAILS
 - DEVELOPMENT BOUNDARY
 - EXISTING RAILWAY STATION
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED TRACK ACCESS POINTS
 - PROPOSED ATTENUATION TANK
 - TEMPORARY BRIDGES
 - PROPOSED SITE ACCESS
 - EXISTING TRACK TO BE RETAINED
 - PROPOSED CONCRETE SLAB TRACK & ELECTRIFICATION
 - PROPOSED TRACK WORKS & ELECTRIFICATION
 - PROPOSED TRACK WORKS, NOT ELECTRIFIED
 - PROPOSED RAILWAY ELECTRIFICATION
 - PROPOSED PARAPET MODIFICATIONS
 - PROPOSED RETAINING WALL
 - PROPOSED FENCING
 - PROPOSED BOUNDARY WALL
 - PROPOSED TRACK CROSSING UTILITY DIVERSIONS
 - PROPOSED RETAINING WALL ANCHORS / SOIL NAILING
 - PROPOSED BRIDGE RECONSTRUCTION (OUTLINE VARIES)
 - OHLE - PROPOSED POLE / MAST
 - OHLE - PROPOSED CABLE ANCHOR
 - OHLE - PROPOSED SINGLE / DOUBLE CANTILEVER
 - OHLE - PROPOSED SINGLE / DOUBLE TRACK GANTRY
 - OHLE - PROPOSED BRACKET FURMS AT STRUCTURES
 - PROPOSED TEMPORARY COMPOUND
 - PROPOSED SUBSTATION COMPOUND
 - PROPOSED ELECTRICAL SUBSTATION
 - PROPOSED SIGNAL EQUIPMENT BUILDING

01/11/2022 10:11:22 DMP JP CS PLANNING ISSUE

© Irish Rail (2022). This drawing is confidential and the copyright is reserved by Irish Rail. This drawing must not be altered, copied or otherwise reproduced in whole or in part or used for any purpose without the prior permission of Irish Rail. © Ordnance Survey Ireland and government of Ireland. All OS Data used for plans are printed under "Copyright Ordnance Survey Ireland" Survey No. 003072 (OS Aerial Data or OS Lidar Data) & Survey No. 202203; MMA, 100 (OS Vector Data). All dimensions are in metres and unless to OS, Ground Model (OS) coordinates are in Irish Transverse Mercator Grid (TM) as defined by OS active GPS datum Trinity College (LL02).



Rev	Date	Drn	CHKD	App'd	Description
v01	10.11.22	DMP	JP	CS	PLANNING ISSUE

Project Title: DART+ SOUTH WEST
 Drawing Title: GENERAL DESIGN PROJECT SCHEMATIC LAYOUT SHEET 17 OF 17
 Drawing File Name: DP-04-23-DWG-CV-TTA-21278
 Version: v01
 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY