

SHEET 3
SHEET 2

TO CELBRIDGE

New 3.6m high palisade fence for new Hazelhatch substation compound (include access gate)

PROPOSED CONSTRUCTION COMPOUND

STRALEEK FOOTBRIDGE (OBC23B)

NEW HAZELHATCH SUBSTATION

HAZELHATCH & CELBRIDGE STATION

HAZELHATCH R405 ROAD BRIDGE (OBC25)

HAZELHATCH FOOTBRIDGE (OBC24)
NEW HAZELHATCH FOOTBRIDGE (OBC24A)

EXISTING CIE TRACK MAINTENANCE & MATERIALS HANDLING COMPOUND

THE LORDS ROAD

Provide 1.8m high station concourse parapets where they overlook electrified tracks and for uniformity over the length of a specific side of the station. These will consist of 1.2m high solid panel from concourse slab and with a 0.6m high IPX2 rated mesh infill Panel above. In addition the pedestrian hand railing of the platform access staircase will require the same

New 2.4m high palisade fence segregating the railway cess edge from the realigned maintenance road. (includes pedestrian access gates local to any SET installation and a reconstructed vehicular track access gate to the west of the fence line)

SHEET 2
SHEET 1

LEGEND:

- EXISTING CIE PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
- EXISTING TRACK TO BE RETAINED
- PROPOSED SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS & ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS (INFIL PANELS AND/OR RAISING)
- PROPOSED CANTILEVER RETAINING WALL
- PROPOSED PILED RETAINING WALL
- PROPOSED "KING POST" RETAINING WALLS
- PROPOSED GABION RETAINING WALLS
- PROPOSED BOUNDARY WALLS
- PROPOSED BOUNDARY FENCING

NOTES

The boundary treatment drawings should be read in conjunction with the Boundary Treatment Schedule (DP-04-REP-ST-TTA-26905) which is appended to the Boundary Treatment Preliminary Design Report (DP-04-23-REP-ST-TTA-26904). Additional clarification of retaining wall details below certain boundary treatment can be found in the Geotechnical Design Report (DP-04-23-REP-CV-TTA-01276) and drawings.

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Rev	Date	Drn	Chkd	App'd	Description
V01	10.11.22	RG	JX	JX	PLANNING ISSUE

Client: **Irish Rail**

Engineering Designer: **ATKINS**

Date: 05.07.22 Scale: 1:1250 @ A0
N.T.S. @ A3

Project Code: 5199586 Issuer: TTA QMS Code: []

Drawn: RG Checked: JX Approved: JX

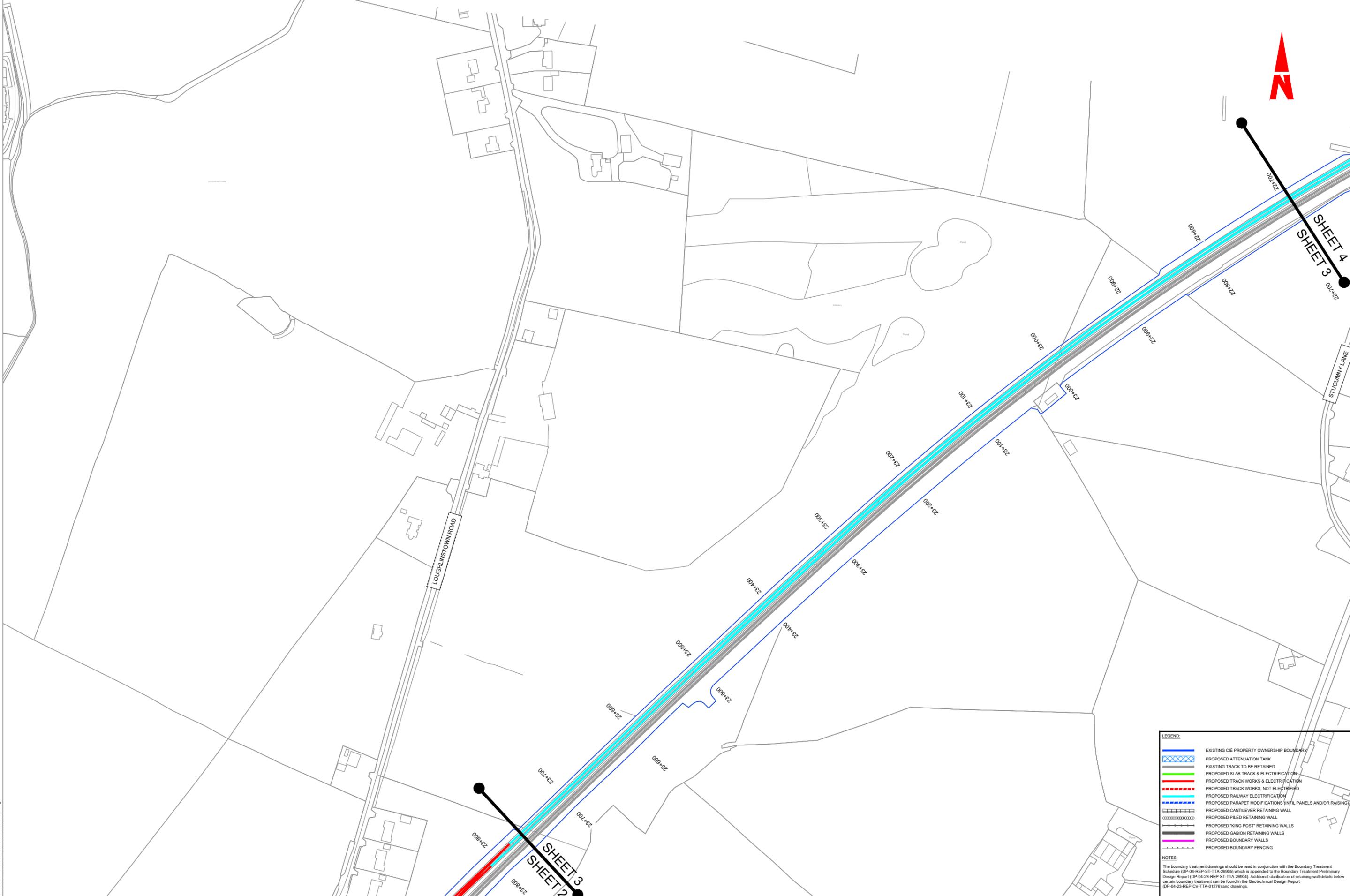
Project Title: **DART+ SOUTH WEST**

Drawing Title: **BOUNDARY TREATMENT HAZELHATCH STATION AND SURROUNDS SHEET 2 OF 17**

Drawing File Name: DP-04-23-DWG-RO-TTA-18887

Version: V01 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- EXISTING CIÉ PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
- EXISTING TRACK TO BE RETAINED
- PROPOSED SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS & ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS (INFIL PANELS AND/OR RAISING)
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- PROPOSED PILED RETAINING WALL
- PROPOSED "KING POST" RETAINING WALLS
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- PROPOSED BOUNDARY WALLS
- PROPOSED BOUNDARY FENCING

NOTES

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V01	10.11.22	RG	JX	JX	PLANNING ISSUE

Client: **Irish Rail**

Engineering Designer: **ATKINS**

Supported by: **rps**

Date: 05.07.22 Scale: 1:1250 @ A0
 N.T.S. @ A3

Project Code: 5199586 Issuer: TTA QMS Code

Drawn: RG Checked: JX Approved: JX

Project Title: **DART+ SOUTH WEST**

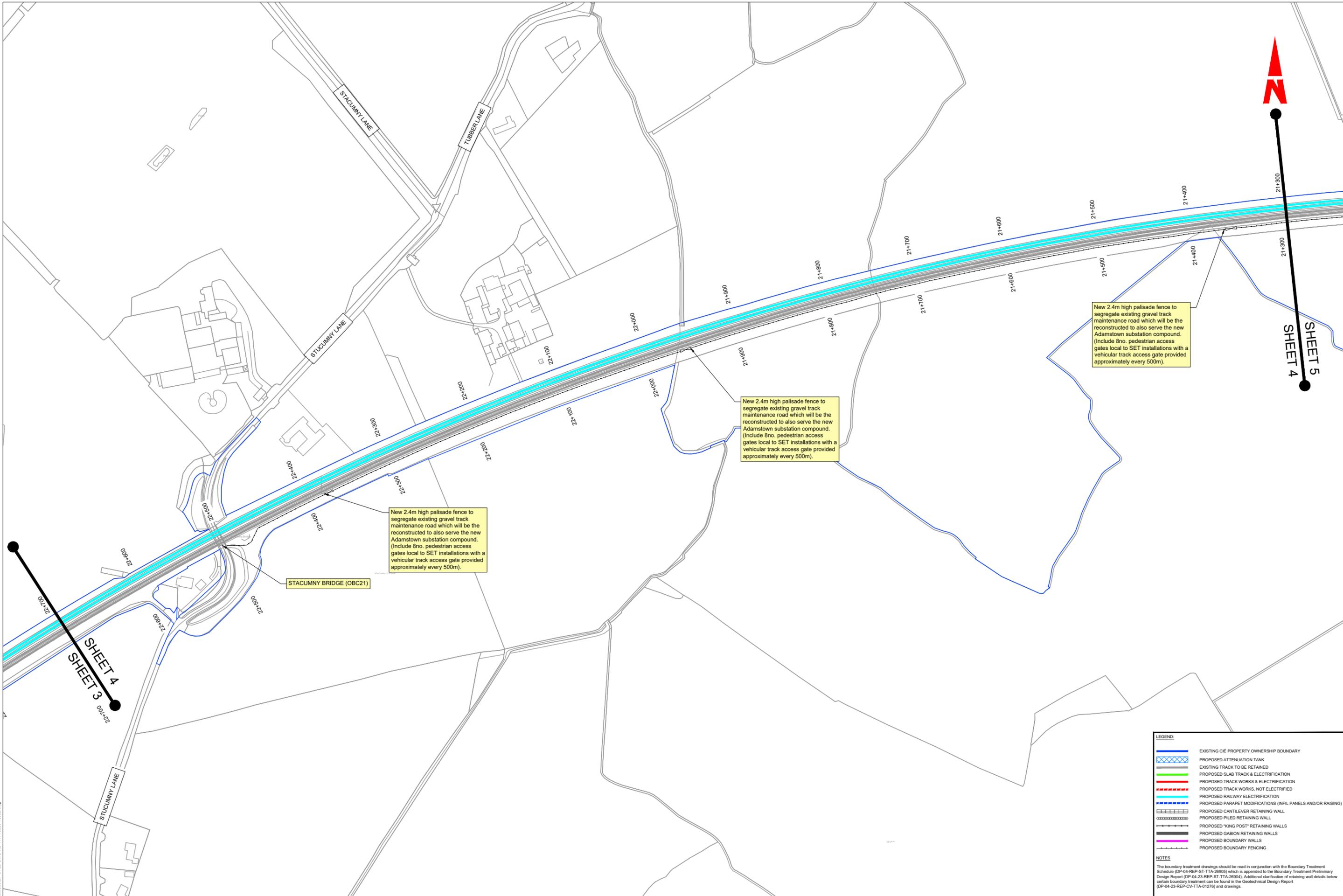
Drawing Title: **BOUNDARY TREATMENT WEST OF TUBBER LANE SHEET 3 OF 17**

Drawing File Name: DP-04-23-DWG-RO-TTA-18888

Version: V01 Status: S3

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DO NOT SCALE USE FIGURED DIMENSIONS ONLY



SHEET 5
SHEET 4

New 2.4m high palisade fence to segregate existing gravel track maintenance road which will be the reconstructed to also serve the new Adamstown substation compound. (Include 8no. pedestrian access gates local to SET installations with a vehicular track access gate provided approximately every 500m).

New 2.4m high palisade fence to segregate existing gravel track maintenance road which will be the reconstructed to also serve the new Adamstown substation compound. (Include 8no. pedestrian access gates local to SET installations with a vehicular track access gate provided approximately every 500m).

New 2.4m high palisade fence to segregate existing gravel track maintenance road which will be the reconstructed to also serve the new Adamstown substation compound. (Include 8no. pedestrian access gates local to SET installations with a vehicular track access gate provided approximately every 500m).

STACUMNY BRIDGE (OBC21)

LEGEND:

- EXISTING CIÉ PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
- EXISTING TRACK TO BE RETAINED
- PROPOSED SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS & ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS (INFIL PANELS AND/OR RAISING)
- PROPOSED CANTILEVER RETAINING WALL
- PROPOSED PILED RETAINING WALL
- PROPOSED "KING POST" RETAINING WALLS
- PROPOSED GABION RETAINING WALLS
- PROPOSED BOUNDARY WALLS
- PROPOSED BOUNDARY FENCING

NOTES

The boundary treatment drawings should be read in conjunction with the Boundary Treatment Schedule (DP-04-REP-ST-TTA-26905) which is appended to the Boundary Treatment Preliminary Design Report (DP-04-23-REP-ST-TTA-26904). Additional clarification of retaining wall details below certain boundary treatment can be found in the Geotechnical Design Report (DP-04-23-REP-CV-TTA-01276) and drawings.

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V01	10.11.22	RG	JX	JX	PLANNING ISSUE

Client: **Irish Rail**

Engineering Designer: **ATKINS**

Supported by: **rps**

Date: 05.07.22 Scale: 1:1250 @ A0 N.T.S. @ A3

Project Code: S199586 Issuer: TTA QMS Code

Drawn: RG Checked: JX Approved: JX

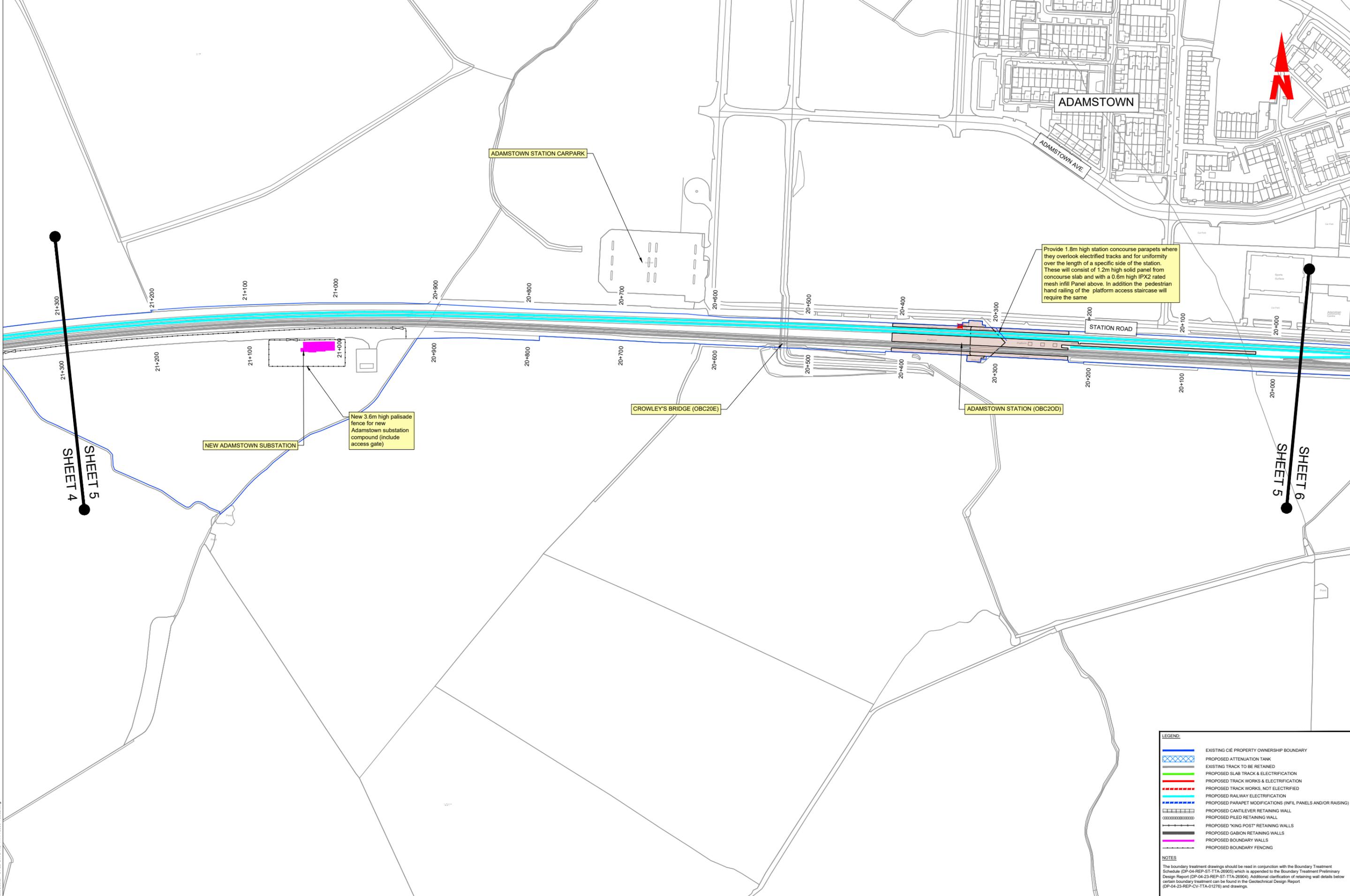
Project Title: **DART+ SOUTH WEST**

Drawing Title: **BOUNDARY TREATMENT STACUMNY LANE AND SURROUNDS SHEET 4 OF 17**

Drawing File Name: DP-04-23-DWG-RO-TTA-18889

Version: V01 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



Provide 1.8m high station concourse parapets where they overlook electrified tracks and for uniformity over the length of a specific side of the station. These will consist of 1.2m high solid panel from concourse slab and with a 0.6m high IPX2 rated mesh infill Panel above. In addition the pedestrian hand railing of the platform access staircase will require the same

New 3.6m high palisade fence for new Adamstown substation compound (include access gate)

LEGEND:

- EXISTING CIÉ PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
- EXISTING TRACK TO BE RETAINED
- PROPOSED SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS & ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS (INFIL PANELS AND/OR RAISING)
- PROPOSED CANTILEVER RETAINING WALL
- PROPOSED PILED RETAINING WALL
- PROPOSED "KING POST" RETAINING WALLS
- PROPOSED GABION RETAINING WALLS
- PROPOSED BOUNDARY FENCING
- PROPOSED BOUNDARY FENCING

NOTES

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Rev	Date	Dm	Chkd	App'd	Description
V01	10.11.22	RG	JX	JX	PLANNING ISSUE

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

Date: 05.07.22 Scale: 1:1250 @ A0 / N.T.S. @ A3

Project Code: S199586 Issuer: TTA QMS Code: []

Engineering Designer: **ATKINS** / **rps**

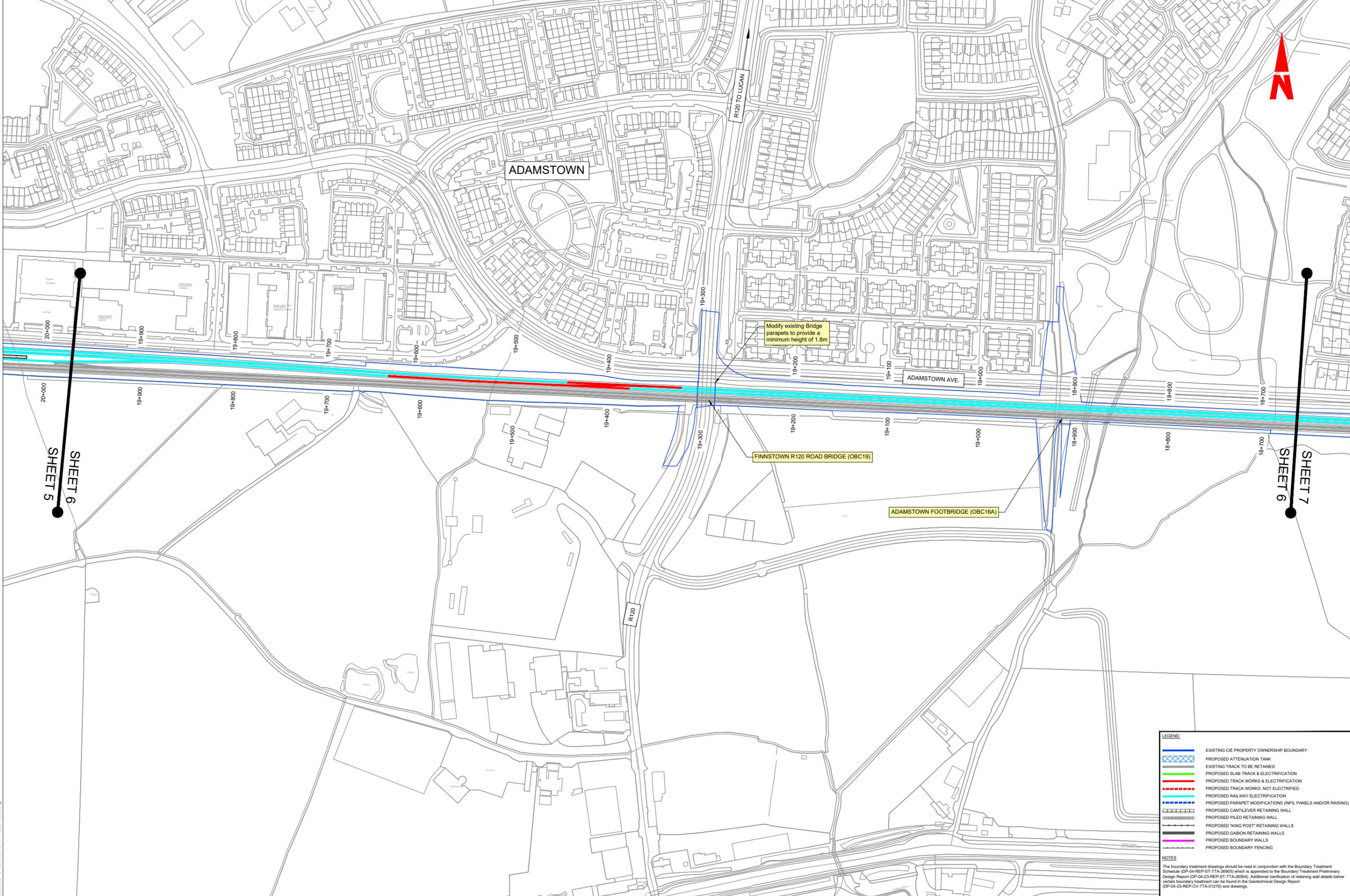
Drawn: RG Checked: JX Approved: JX

Project Title: **DART+ SOUTH WEST**

Drawing Title: **BOUNDARY TREATMENT ADAMSTOWN STATION AND SURROUNDS SHEET 5 OF 17**

Drawing File Name: DP-04-23-DWG-RO-TTA-18890 Version: V01 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



SHEET 5

SHEET 6

SHEET 7

ADAMSTOWN

Modify existing Bridge parapets to provide a minimum height of 1.8m

FINNSTOWN R120 ROAD BRIDGE (OBC19)

ADAMSTOWN FOOTBRIDGE (OBC16A)

ADAMSTOWN AVE.

R120 TO LUCAN

R120

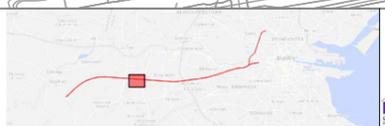
LEGEND:

- EXISTING CIE PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
- EXISTING TRACK TO BE RETAINED
- PROPOSED SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS & ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
- PROPOSED RAILWAY ELECTRIFICATION
- PROPOSED PARAPET MODIFICATIONS (INFIL PANELS AND/OR RAISING)
- PROPOSED CANTILEVER RETAINING WALL
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- PROPOSED 'KING POST' RETAINING WALLS
- PROPOSED GABION RETAINING WALLS
- PROPOSED BOUNDARY WALLS
- PROPOSED BOUNDARY FENCING

NOTES
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Rev	Date	Drn	Chkd	App'd	Description
V01	10.11.22	RG	JX	JX	PLANNING ISSUE

Client: **Irish Rail**

Date: 05.07.22 Scale: 1:1250 @ A0
N.T.S. @ A3

Project Code: S199586 Issuer: TTA QMS Code

Engineering Designer: **ATKINS**

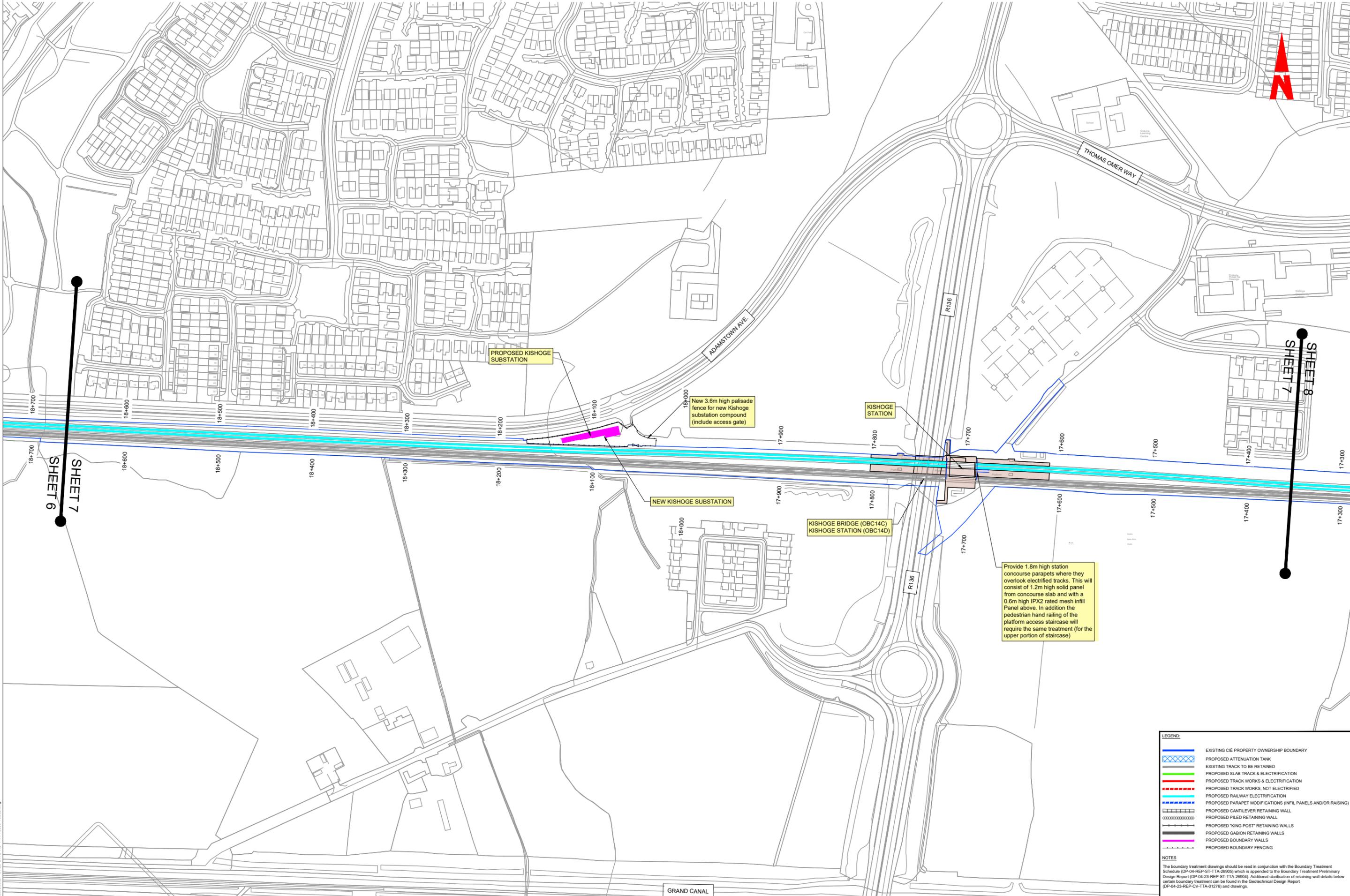
Drawn: RG Checked: JX Approved: JX

Project Title: **DART+ SOUTH WEST**

Drawing Title: **BOUNDARY TREATMENT ADAMSTOWN TO GRIFEEEN VALLEY PARK AND SURROUNDS SHEET 6 OF 17**

Drawing File Name: DP-04-23-DWG-RO-TTA-18891 Version: V01 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



SHEET 6

SHEET 7

SHEET 7

SHEET 8

Provide 1.8m high station concourse parapets where they overlook electrified tracks. This will consist of 1.2m high solid panel from concourse slab and with a 0.6m high IPX2 rated mesh infill Panel above. In addition the pedestrian hand railing of the platform access staircase will require the same treatment (for the upper portion of staircase)

LEGEND:

- EXISTING CIÉ PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
- EXISTING TRACK TO BE RETAINED
- PROPOSED SLAB TRACK & ELECTRIFICATION
- PROPOSED TRACK WORKS & ELECTRIFICATION
- PROPOSED TRACK WORKS, NOT ELECTRIFIED
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- PROPOSED PILED RETAINING WALL
- PROPOSED "KING POST" RETAINING WALLS
- PROPOSED GABION RETAINING WALLS
- PROPOSED BOUNDARY WALLS
- PROPOSED BOUNDARY FENCING

NOTES
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Rev	Date	Drn	Chkd	App'd	Description
v01	10.11.22	RG	JX	JX	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS**

Date: 05.07.22 Scale: 1:1250 @ A0 N.T.S. @ A3

Project Code: S199586 Issuer: TTA QMS Code

Drawn: RG Checked: JX Approved: JX

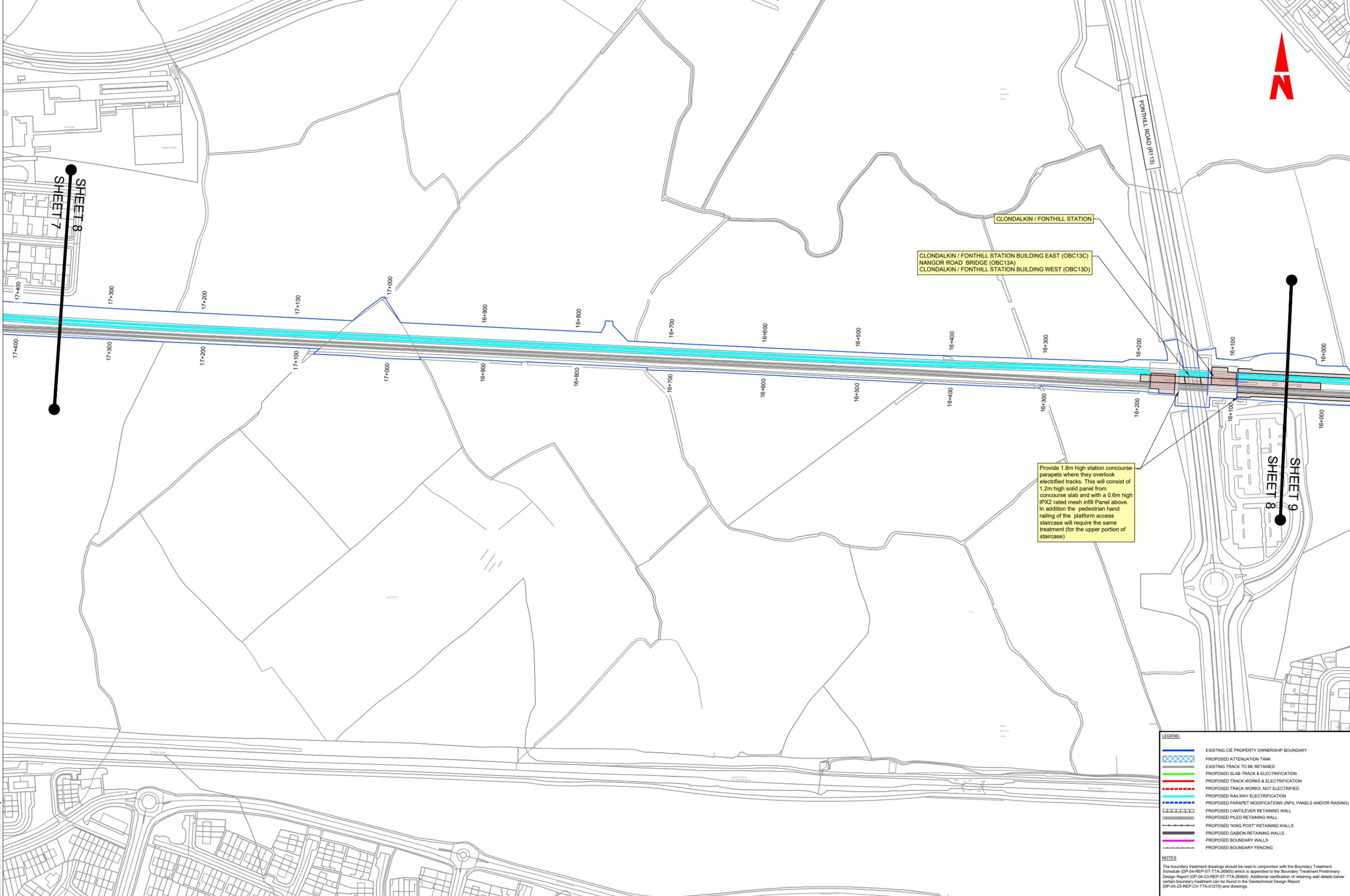
Project Title: **DART+ SOUTH WEST**

Drawing Title: **BOUNDARY TREATMENT TULLYHALL AND KISHOGE STATION SHEET 7 OF 17**

Drawing File Name: DP-04-23-DWG-RO-TTA-18892

Version: v01 Status: S3

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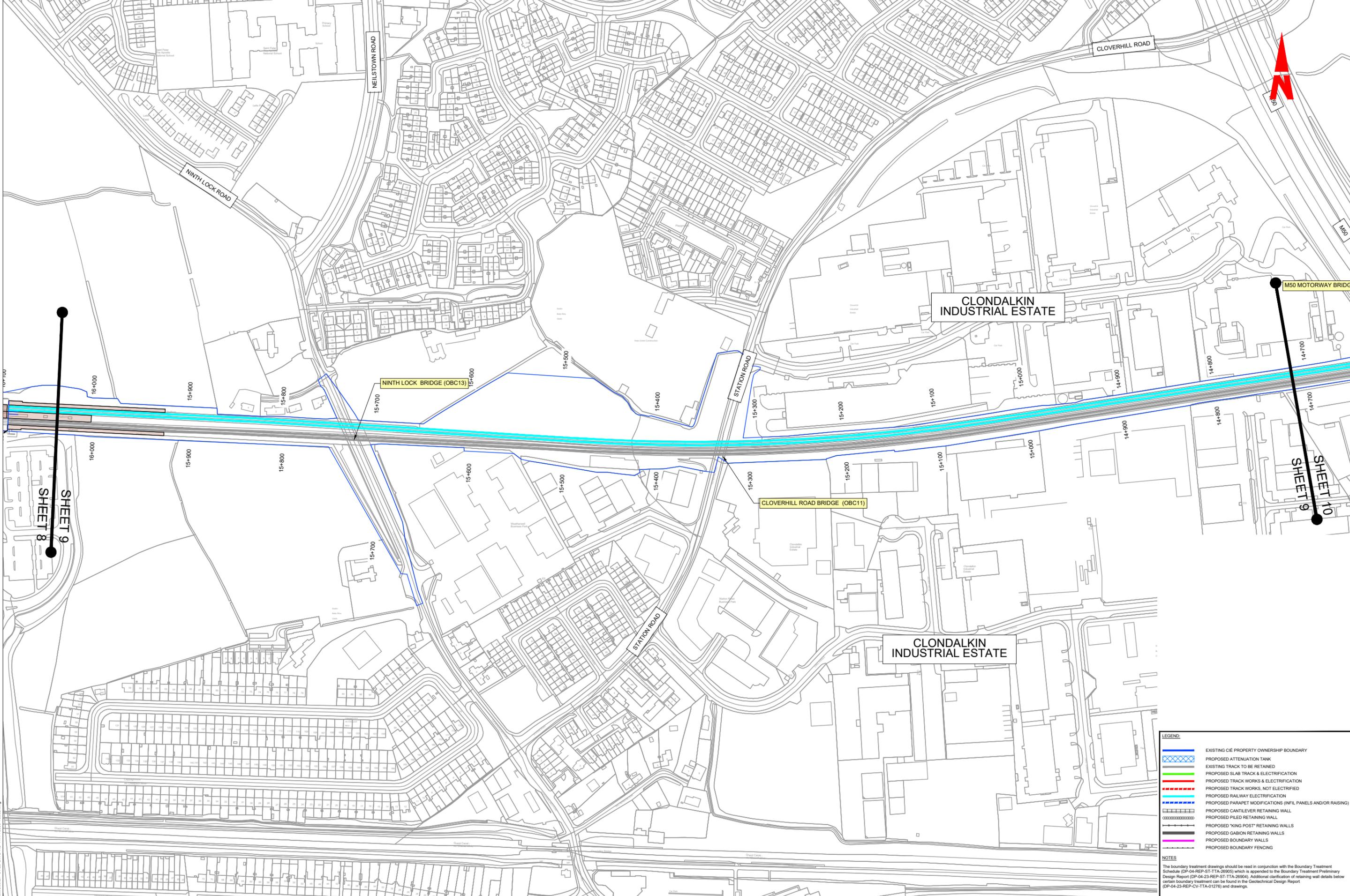
Provide 1.8m high station concourse parapets where they overlook electrified tracks. This will consist of 1.2m high solid panel from concourse slab and with a 0.6m high IPX2 rated mesh infill Panel above. In addition the pedestrian hand railing of the platform access staircase will require the same treatment (for the upper portion of staircase)

LEGEND:

- EXISTING CIE PROPERTY OWNERSHIP BOUNDARY
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SHEET 8

SHEET 9

SHEET 10

LEGEND:

- EXISTING CIE PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
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V01	10.11.22	RG	JX	JX	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Date: 05.07.22 Scale: 1:1250 @ A0 N.T.S. @ A3

Project Code: S199586 Issuer: TTA

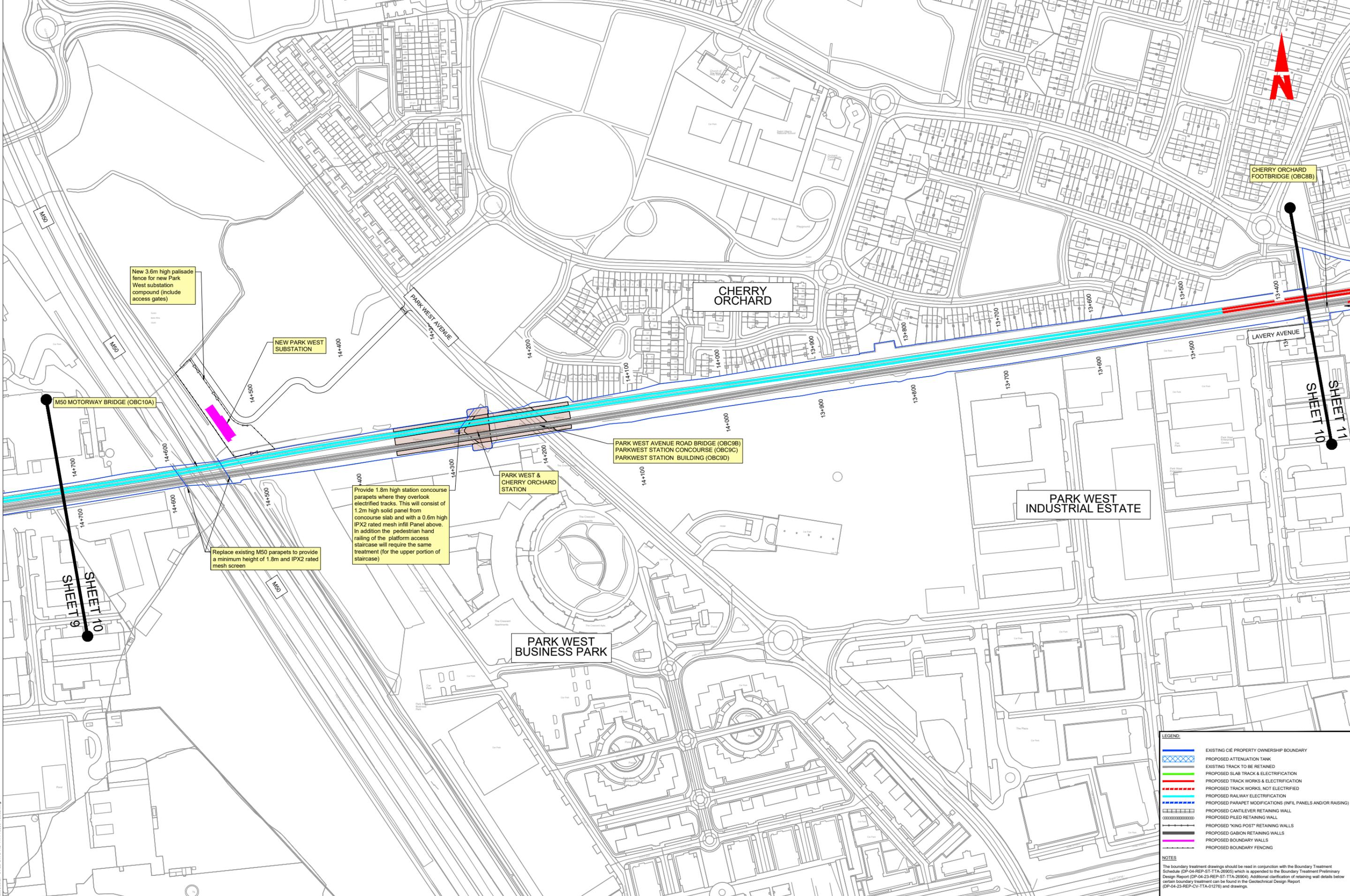
Engineering Designer: **ATKINS** (Member of the SNC-Lavalin Group) supported by **rps**

Drawn: RG Checked: JX Approved: JX

Project Title	DART+ SOUTH WEST		
Drawing Title	BOUNDARY TREATMENT NINTH LOCK ROAD AND COVERHILL ROAD SHEET 9 OF 17		
Drawing File Name	DP-04-23-DWG-RO-TTA-18894	Version	V01
Status	S3		

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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New 3.6m high palisade fence for new Park West substation compound (include access gates)

NEW PARK WEST SUBSTATION

CHERRY ORCHARD FOOTBRIDGE (OBC8B)

CHERRY ORCHARD

PARK WEST AVENUE

PARK WEST AVENUE ROAD BRIDGE (OBC9B)
PARKWEST STATION CONCOURSE (OBC9C)
PARKWEST STATION BUILDING (OBC9D)

PARK WEST & CHERRY ORCHARD STATION

Provide 1.8m high station concourse parapets where they overlook electrified tracks. This will consist of 1.2m high solid panel from concourse slab and with a 0.6m high IPX2 rated mesh infill panel above. In addition the pedestrian hand railing of the platform access staircase will require the same treatment (for the upper portion of staircase)

Replace existing M50 parapets to provide a minimum height of 1.8m and IPX2 rated mesh screen

PARK WEST INDUSTRIAL ESTATE

PARK WEST BUSINESS PARK

SHEET 11
SHEET 10

SHEET 10
SHEET 9

LEGEND:

- EXISTING CIE PROPERTY OWNERSHIP BOUNDARY
- PROPOSED ATTENUATION TANK
- EXISTING TRACK TO BE RETAINED
- PROPOSED SLAB TRACK & ELECTRIFICATION
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The boundary treatment drawings should be read in conjunction with the Boundary Treatment Schedule (DP-04-REP-ST-TTA-26905) which is appended to the Boundary Treatment Preliminary Design Report (DP-04-23-REP-ST-TTA-26904). Additional clarification of retaining wall details below certain boundary treatment can be found in the Geotechnical Design Report (DP-04-23-REP-CV-TTA-01076) and drawings.

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Rev	Date	Drn	Chkd	App'd	Description
V01	10.11.22	RG	JX	JX	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS**

Date: 05.07.22 Scale: 1:1250 @ A0
N.T.S. @ A3

Project Code: 1199586 Issuer: TTA QMS Code

Drawn: RG Checked: JX Approved: JX

Project Title: **DART+ SOUTH WEST**

Drawing Title: **BOUNDARY TREATMENT M50 AND PARK WEST SHEET 10 OF 17**

Drawing File Name: DP-04-23-DWG-RO-TTA-18895 Version: V01 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- PROPOSED SECANT PILE WALL
- - - PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- - - PROPOSED ANCHOR SUBSTATION WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- ▶ END OF SECTION
- ◀ CONTINUATION OF SECTION
- / EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

NOTES:

1. FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
2. WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
3. TRACKBED TREATMENTS MARKED (★) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	T300R2g
T450g	T300R2g
T450Rg	T300R2g
T525g	T350R2g
T525Rg	T350R2g

SHEET 001
SHEET 002

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
←	T350Rg
←	T350Rg
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
14+000 13+900 13+800 13+700 13+600 13+500 13+400	CHAINAGE (m)

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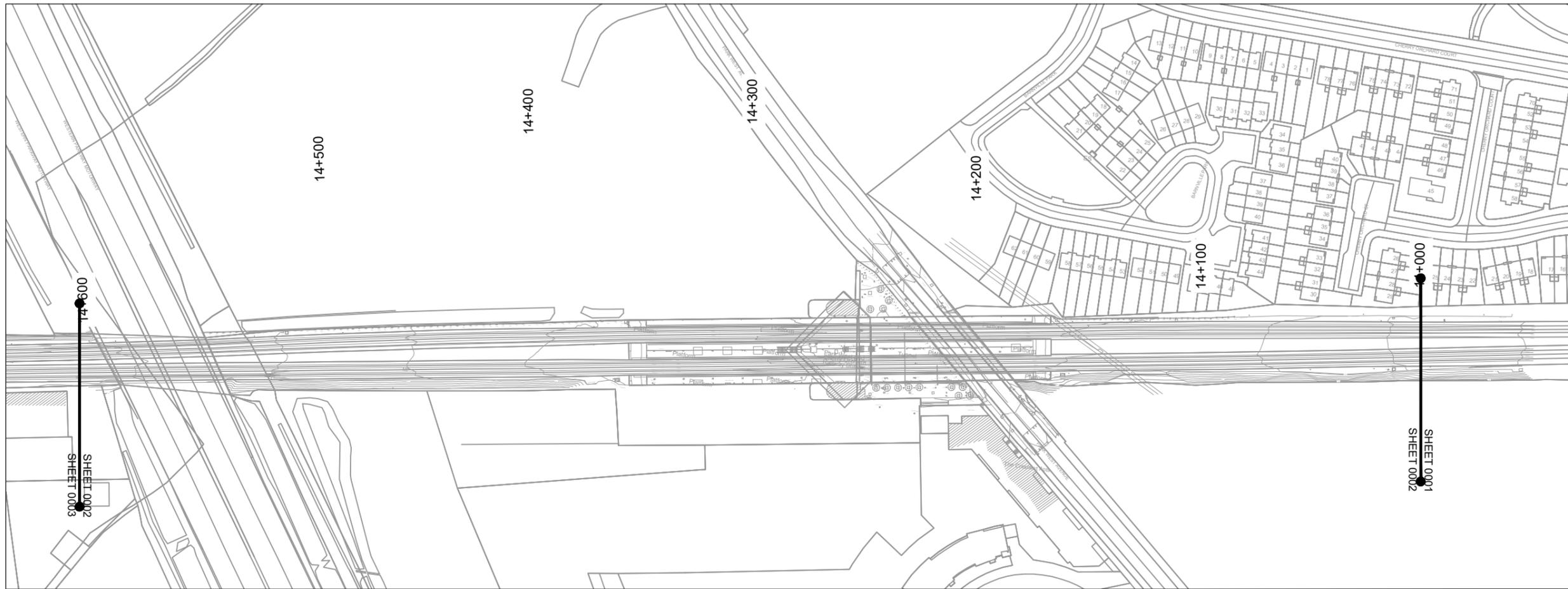


Rev	Date	Drm	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client 		Engineering Designer 	
Date: 29.11.21		Scale: 1:1000 @ A1 1:2000 @ A3	
Project Code: 5199586		Supported by:	
Drawn: RG	Checked: PC	Approved: PC	
Project Code: 5199586		QMS Code: TTA	

Project Title DART + SOUTH WEST	
Drawing Title CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 1	
Drawing File Name	DP-04-23-DWG-RO-TTA-19015
Version	v01
Status	S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- PROPOSED SECANT PILE WALL
- - - PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- - - PROPOSED ANCHOR SUBSTATION WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- ▶ END OF SECTION
- ◀ CONTINUATION OF SECTION
- / EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

NOTES:

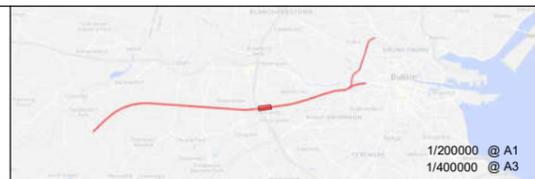
- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (★) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
	CHAINAGE (m)

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Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann**

Engineering Designer: **ATKINS**

Supported by: **FPS**

Date: 29.11.21 **Scale:** 1:1000 @ A1 / 1:2000 @ A3

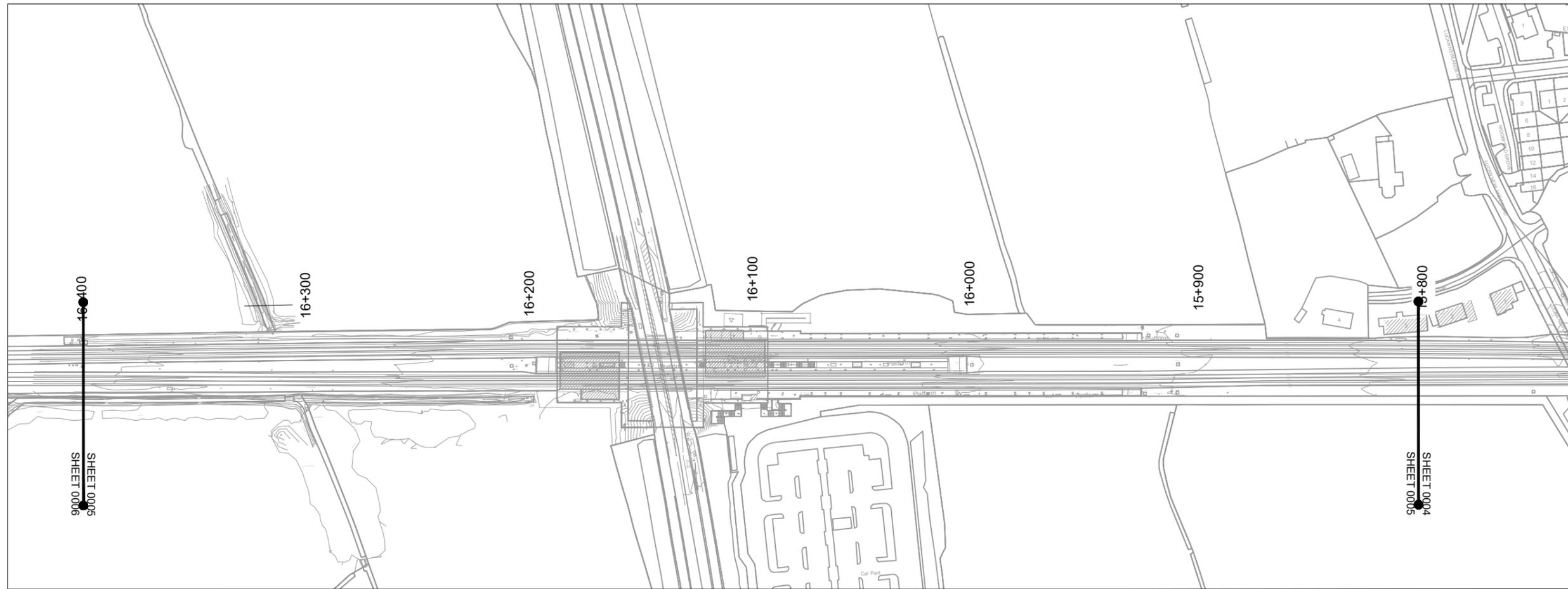
Project Code: 5199586 **Issuer:** TTA

Drawn: RG **Checked:** PC **Approved:** PC

QMS Code:

Project Title: DART + SOUTH WEST	
Drawing Title: CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 2	
Drawing File Name: DP-04-23-DWG-RO-TTA-19016	Version: v01 Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- PROPOSED SECANT PILE WALL
- PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTANTIUM WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- CONTINUATION OF SECTION
- EARTHWORK SLOPE
- INDICATIVE BANK HEIGHT / CUTTING DEPTH

NOTES:

- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (*) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
16+400	CHAINAGE (m)
16+300	
16+200	
16+100	
16+000	
15+900	
15+800	

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Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Member of the SNC Lavalin Group) supported by **rps**

Date: 29.11.21 | Scale: 1:1000 @ A1, 1:2000 @ A3 | Drawn: RG | Checked: PC | Approved: PC

Project Code: 5199586 | Issuer: TTA | QMS Code:

Project Title: **DART + SOUTH WEST**

Drawing Title: **CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 5**

Drawing File Name: DP-04-23-DWG-RO-TTA-19019 | Version: v01 | Status: S3

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LEGEND:

- PROPOSED SECANT PILE WALL
- - - PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTANTIUM WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- CONTINUATION OF SECTION
- EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

NOTES:

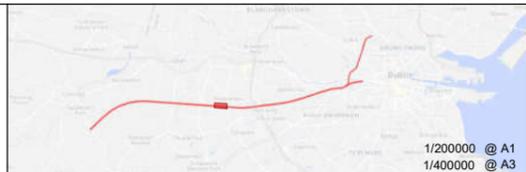
- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (★) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
	CHAINAGE (m)

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Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Member of the SNC Lavalin Group) supported by **rps**

Date: 29.11.21 | Scale: 1:1000 @ A1, 1:2000 @ A3 | Drawn: RG | Checked: PC | Approved: PC

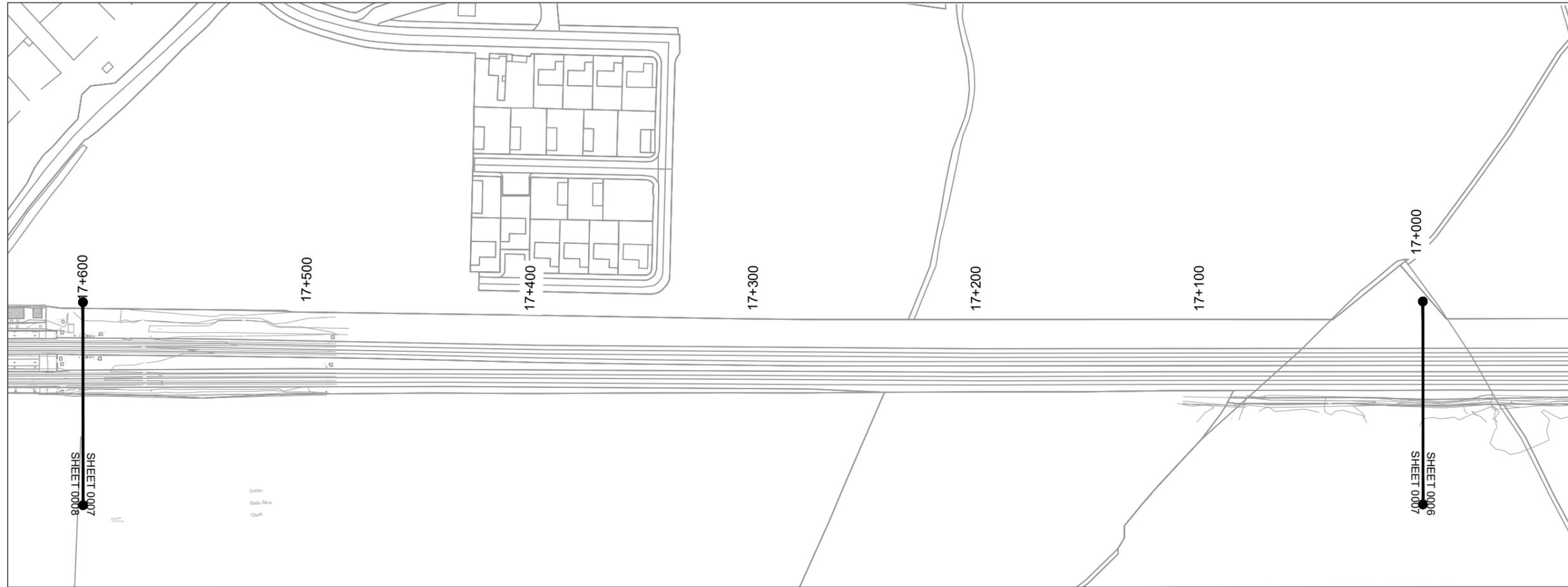
Project Code: 5199586 | Issuer: TTA | QMS Code:

Project Title: **DART + SOUTH WEST**

Drawing Title: **CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 6**

Drawing File Name: DP-04-23-DWG-RO-TTA-19020 | Version: v01 | Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- PROPOSED SECANT PILE WALL
- PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTANTIUM WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- CONTINUATION OF SECTION
- EARTHWORK SLOPE
- INDICATIVE BANK HEIGHT / CUTTING DEPTH

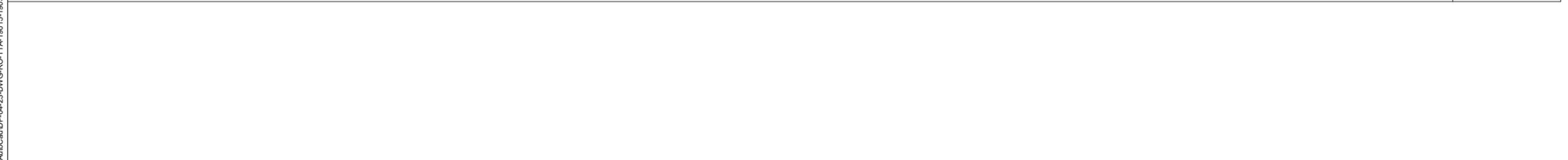
NOTES:

- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (★) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	



	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
	CHAINAGE (m)



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 All elevations are in metres and relate to OSi Geoid Model (OSGM02) Malin Head as defined by existing Project Control.
 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Member of the SNC Lavalin Group) supported by **rps**

Date: 29.11.21 | Scale: 1:1000 @ A1, 1:2000 @ A3 | Drawn: RG | Checked: PC | Approved: PC

Project Code: 5199586 | Issuer: TTA | QMS Code:

Project Title: **DART + SOUTH WEST**

Drawing Title: **CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 7**

Drawing File Name: DP-04-23-DWG-RO-TTA-19021 | Version: v01 | Status: S3

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LEGEND:

- PROPOSED SECANT PILE WALL
- PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTATION WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- CONTINUATION OF SECTION
- EARTHWORK SLOPE
- INDICATIVE BANK HEIGHT / CUTTING DEPTH

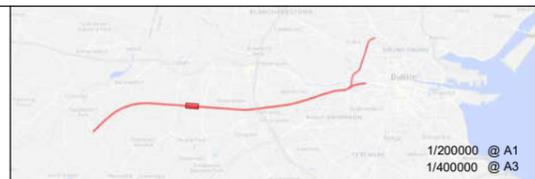
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- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (★) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
18+600	CHAINAGE (m)
18+700	
18+800	
18+500	
18+400	
18+300	
18+200	

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Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Member of the SNC Lavalin Group) supported by **rps**

Date: 29.11.21 | Scale: 1:1000 @ A1, 1:2000 @ A3 | Drawn: RG | Checked: PC | Approved: PC

Project Code: 5199586 | Issuer: TTA | QMS Code:

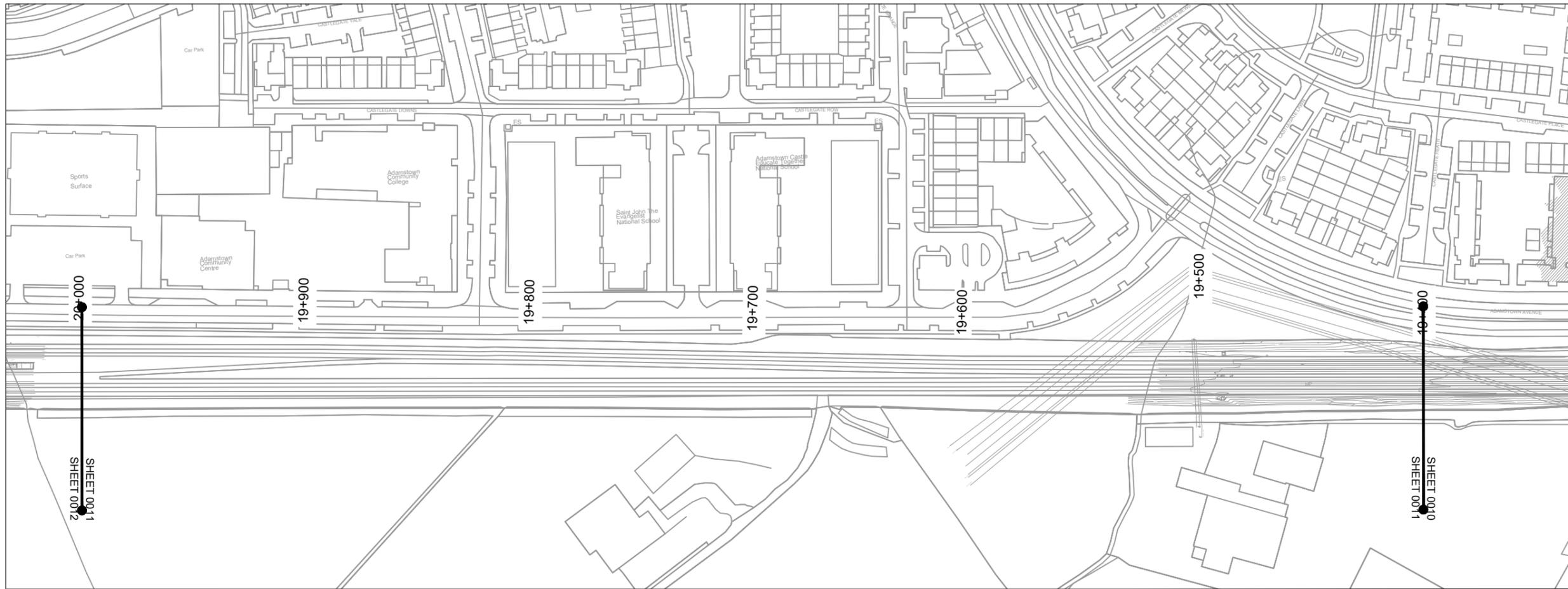
Project Title: **DART + SOUTH WEST**

Drawing Title: **CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 9**

Drawing File Name: DP-04-23-DWG-RO-TTA-19023 | Version: v01 | Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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LEGEND:

- PROPOSED SECANT PILE WALL
- - - PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- - - PROPOSED ANCHOR SUBSTATION WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- ← CONTINUATION OF SECTION
- / EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

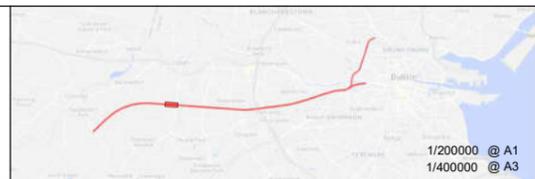
NOTES:

- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (*) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
← TOR →	TRACKBED TREATMENT (UP SLOW)
← TOR →	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
20+000 19+900 19+800 19+700 19+600 19+500 19+400	CHAINAGE (m)

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 All elevations are in metres and relate to OSi Geoid Model (OSGM02) Malin Head as defined by existing Project Control.
 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

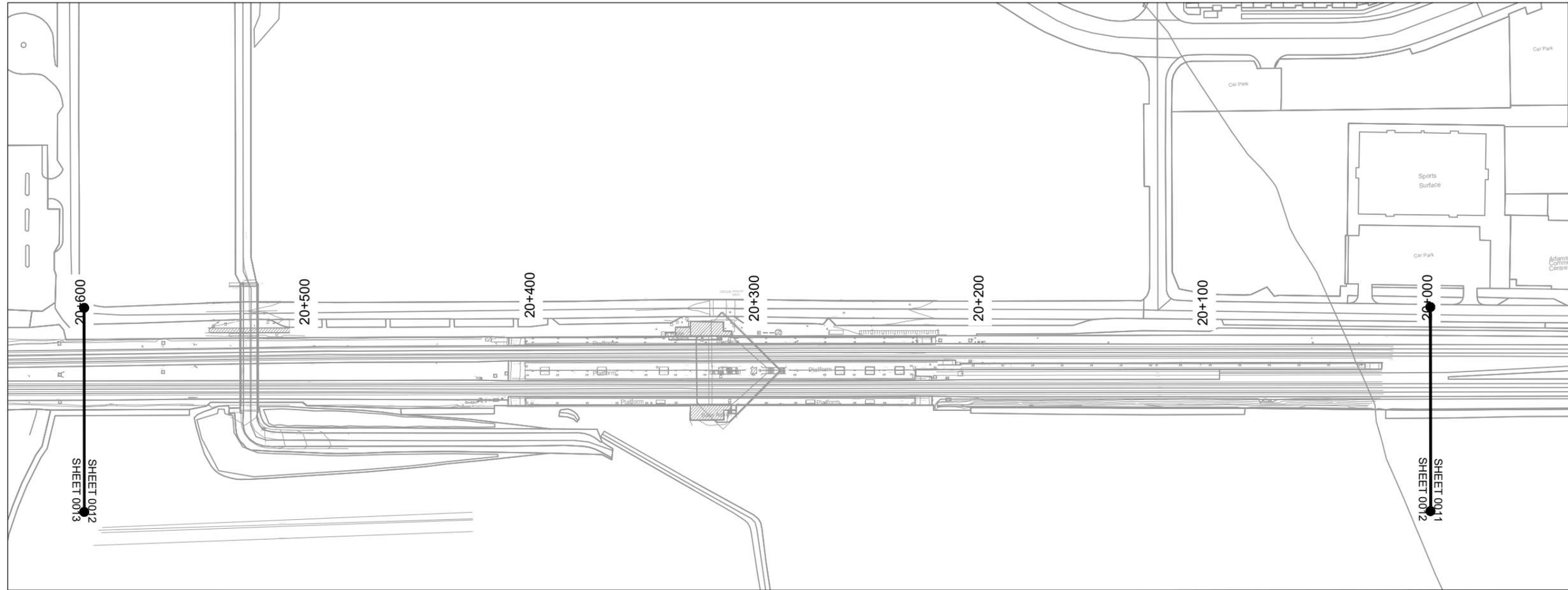
Client: **lanróid Éireann**
Engineering Designer: **ATKINS**
 Supported by: **FPS**

Date: 29.11.21 Scale: 1:1000 @ A1
 Project Code: 5199586 Issuer: TTA QMS Code: Drawn: RG Checked: PC Approved: PC

Project Title DART + SOUTH WEST	
Drawing Title CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 11	
Drawing File Name DP-04-23-DWG-RO-TTA-19025	Version v01 Status S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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LEGEND:

- PROPOSED SECANT PILE WALL
- - - PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTANTIUM WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- ← CONTINUATION OF SECTION
- △ EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

NOTES:

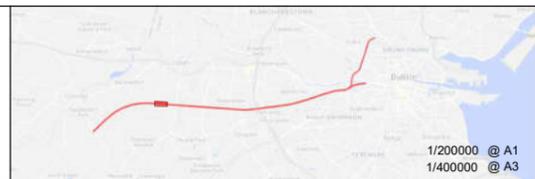
- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (★) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
	CHAINAGE (m)

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Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Member of the SNC Lavalin Group) supported by **rps**

Date: 29.11.21 | Scale: 1:1000 @ A1, 1:2000 @ A3

Project Code: 5199586 | Issuer: TTA

Drawn: RG | Checked: PC | Approved: PC

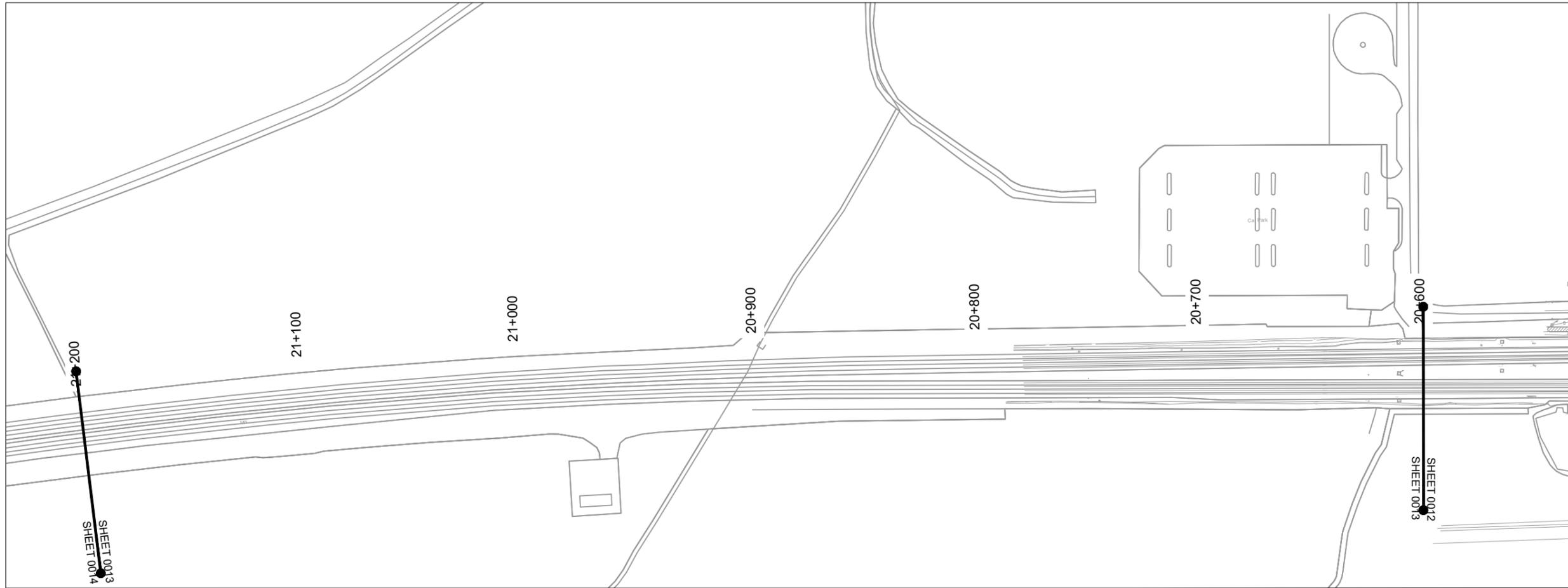
QMS Code: _____

Project Title: **DART + SOUTH WEST**

Drawing Title: **CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 12**

Drawing File Name: DP-04-23-DWG-RO-TTA-19026 | Version: v01 | Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- PROPOSED SECANT PILE WALL
- - - PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTANTIUM WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- ← CONTINUATION OF SECTION
- △ EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

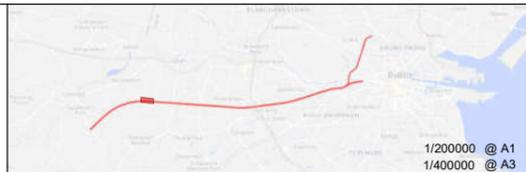
NOTES:

- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (★) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	

	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
21+200	CHAINAGE (m)
21+100	
21+000	
20+900	
20+800	
20+700	
20+600	

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Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Member of the SNC Lavalin Group)

Supported by: **rps**

Date: 29.11.21 | Scale: 1:1000 @ A1, 1:2000 @ A3

Project Code: 5199586 | Issuer: TTA

Drawn: RG | Checked: PC | Approved: PC

QMS Code: _____

Project Title: **DART + SOUTH WEST**

Drawing Title: **CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 13**

Drawing File Name: DP-04-23-DWG-RO-TTA-19027 | Version: v01 | Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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LEGEND:

- PROPOSED SECANT PILE WALL
- - - PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTANTIUM WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- END OF SECTION
- ← CONTINUATION OF SECTION
- △ EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

NOTES:

- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (*) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

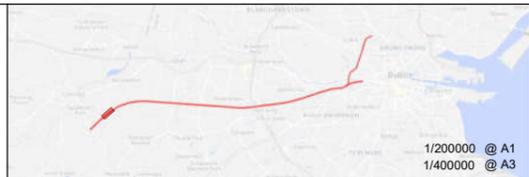
PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	



	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
	CHAINAGE (m)



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 All elevations are in metres and relate to OSi Geoid Model (OSGM02) Malin Head as defined by existing Project Control.
 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: Iarnród Éireann Irish Rail

Engineering Designer: TYPSA, Atkins, TUC RAIL

Supported by: FPS

Date	29.11.21	Scale	1:1000 @ A1 1:2000 @ A3	Drawn	RG	Checked	PC	Approved	PC
Project Code	5199586	Issuer	TTA	QMS Code					

Project Title: DART + SOUTH WEST

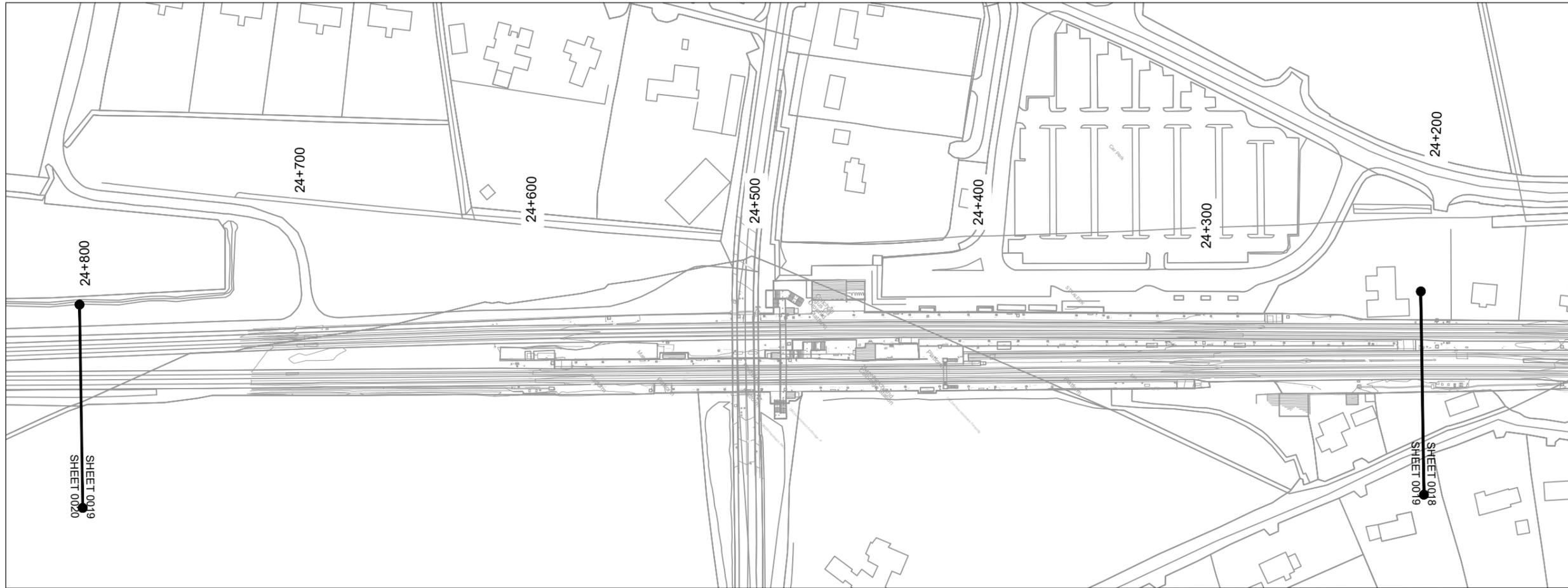
Drawing Title: CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 17

Drawing File Name: DP-04-23-DWG-RO-TTA-19031

Version: v01 **Status:** S3

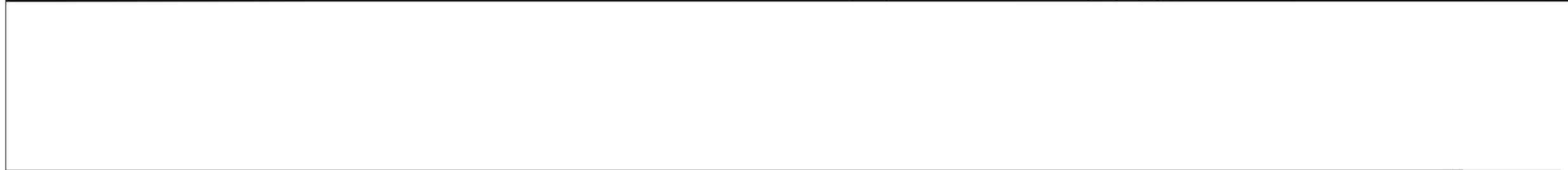
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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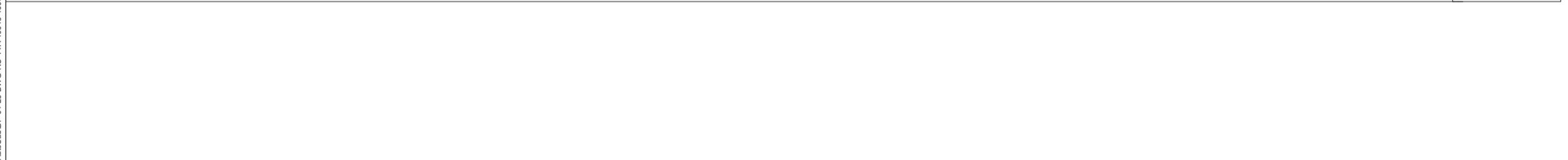


- LEGEND:**
- PROPOSED SECANT PILE WALL
 - - - PROPOSED SECANT PILE WALL ANCHORS
 - PROPOSED KING POST WALL
 - - - PROPOSED ANCHOR SUBSTANTUM WAYLEAVE
 - APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
 - PROPOSED GABION WALL
 - PROPOSED CANTILIEVER WALL
 - INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
 - INDICATIVE EXTENTS OF SLOPE REGRADING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
 - END OF SECTION
 - ← CONTINUATION OF SECTION
 - / EARTHWORK SLOPE
 - H INDICATIVE BANK HEIGHT / CUTTING DEPTH

- NOTES:**
1. FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
 2. WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.



	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
	CHAINAGE (m)



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 All elevations are in metres and relate to OSi Geoid Model (OSGM02) Main Head as defined by existing Project Control.
 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

		Engineering Designer 		Client 	
Date	Scale	Drawn	Checked	Approved	Project Title
29.11.21	1:1000 @ A1 1:2000 @ A3	RG	PC	PC	DART + SOUTH WEST
Project Code	Issuer	QMS Code		Drawing File Name	Version
5199586	TTA			DP-04-23-DWG-RO-TTA-19033	v01
				Status	S3

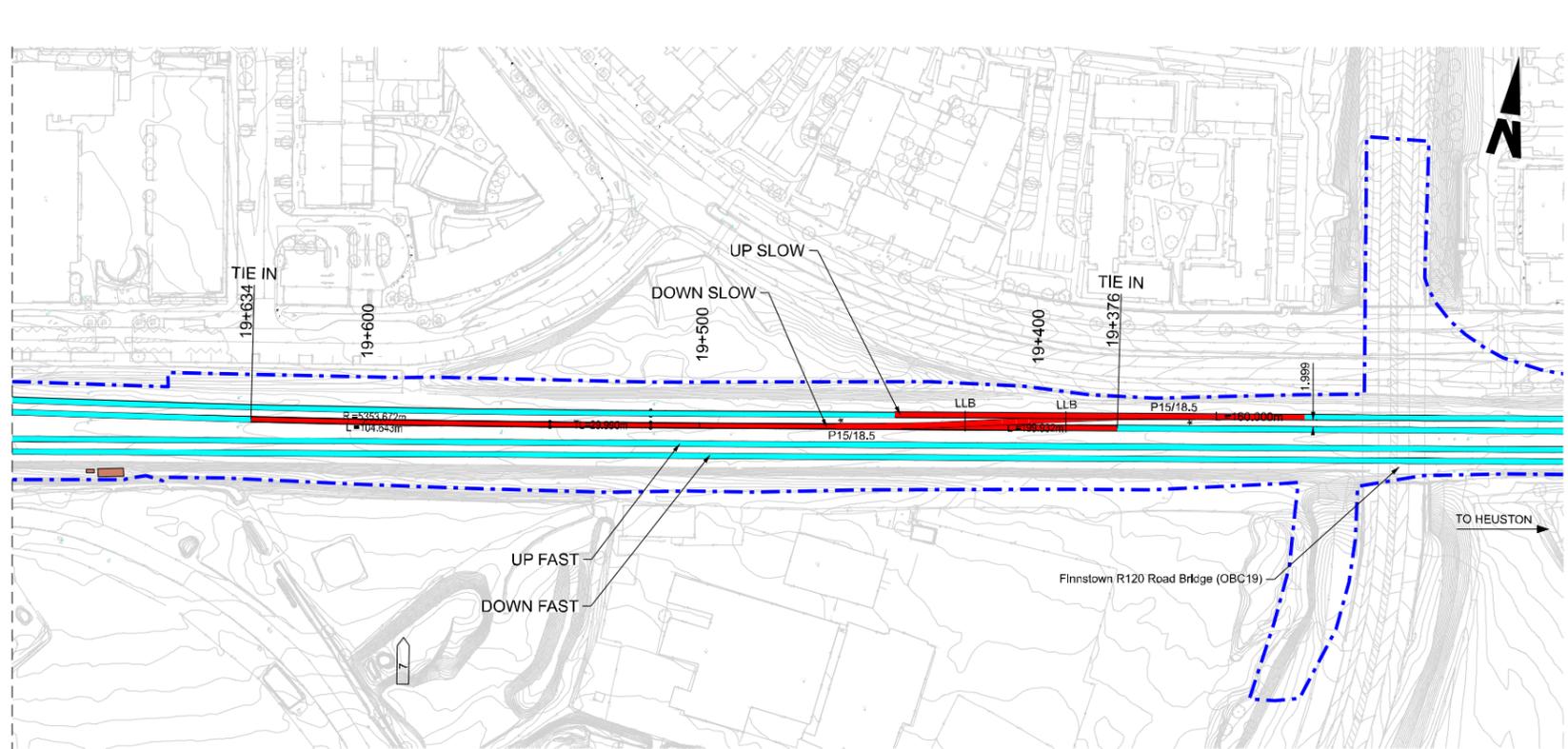
Drawing Title CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 19	
Drawing File Name	Version
DP-04-23-DWG-RO-TTA-19033	v01
Status	S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

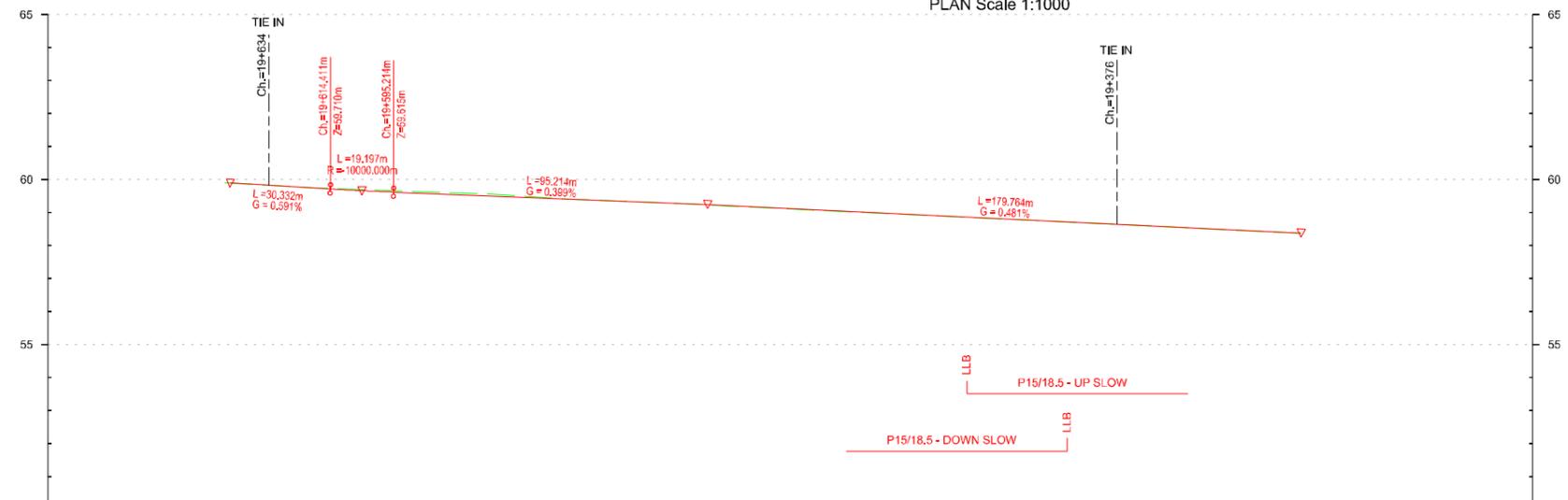
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PLAN Scale 1:1000



PLAN Scale 1:1000



PROFILE Scale H=1:1000 V=1:100

Chainage	Existing Level (m)	Proposed Level (m)	Horizontal Slue (m)	Lift (+) / Lower (-) (m)	Horizontal Alignment (m)	Vertical Alignment (m)	Cant Proposed (mm)	Cant Alignment / Speed
19+700	59.656	59.861	-0.001	0.003	R=5353.672 L=104.643	L=30.332 G=0.391%	0	C=0mm D=30mm V=110km/h
19+650	59.799	59.802	0.003	0.003				
19+600	59.740	59.743	0.003	0.003	TL=29.990	L=19.197 R=10000.000	0	R=CC=0mm/s RoCD=30mm/s CG=1p0 V=110km/h
19+550	59.689	59.685	-0.005	-0.018				
19+500	59.634	59.636	0.002	-0.003	STR L=199.932	L=95.214 G=0.389%	0	C=0mm D=0mm V=110km/h
19+450	59.582	59.585	0.003	-0.040				
19+400	59.531	59.535	0.004	-0.004		L=179.764 G=0.481%	0	
19+350	59.476	59.475	-0.001	-0.041				
19+300	59.427	59.435	0.008	-0.012			0	
19+250	59.388	59.395	0.007	0.008			0	
	59.354	59.356	0.002	0.009			0	
	59.321	59.316	-0.005	0.008			0	
	59.276	59.276	0.000	0.007			0	
	59.227	59.236	0.009	0.006			0	
	59.179	59.188	0.009	0.009			0	
	59.132	59.140	0.008	0.008			0	
	59.084	59.092	0.007	0.007			0	
	59.037	59.044	0.007	0.007			0	
	58.990	58.996	0.006	0.006			0	
	58.944	58.947	0.004	0.004			0	
	58.897	58.899	0.002	0.002			0	
	58.850	58.851	0.001	0.001			0	
	58.803	58.803	0.000	0.000			0	
	58.756	58.755	-0.001	-0.001			0	
	58.708	58.707	-0.001	-0.001			0	
	58.659	58.659	0.000	0.000			0	
	58.611	58.611	-0.000	-0.000			0	
	58.563	58.563	-0.000	-0.000			0	
	58.514	58.515	0.000	0.000			0	
	58.466	58.467	0.000	0.000			0	
	58.419	58.418	-0.000	-0.000			0	

- LEGEND:**
- PROPOSED TRACK LAYOUT**
- RENEWED TRACK / SLUED TRACK
 - EXISTING TRACK TO BE RETAINED
 - EXISTING TRACK TO BE REMOVED
- PLAN**
- RENEWED TRACK / SLUED TRACK
 - EXISTING TRACK TO BE RETAINED (MAIN LINES)
 - EXISTING TRACK TO BE RETAINED (NOT MAIN LINES)
 - EXISTING TRACK TO BE REMOVED
 - IE PROPERTY BOUNDARY
 - PROPOSED RETAINING WALL
 - P8/8 TYPE OF TURNOUT
 - ATTENUATION TANK
 - PROPOSED TRACK DRAINAGE
 - LOW VOLTAGE/TELECOMMUNICATIONS/SIGNALLING CABINETS
 - PROPOSED TANGENT POINT
 - FOULING POINT
 - LAST LONG BEARER
 - MILEPOST
- LONGITUDINAL PROFILE**
- PROPOSED VERTICAL ALIGNMENT
 - EXISTING VERTICAL ALIGNMENT
 - EXISTING GROUND
 - PROPOSED TANGENT POINT
 - LAST LONG BEARER

- NOTES**
- CHAINAGES, LEVELS AND COORDINATES ARE SHOWN IN METRES. ALL OTHER DIMENSIONS ARE SHOWN IN MILLIMETRES, UNLESS OTHERWISE STATED. ALL CLEARANCE AND SIX-FOOT INTERVALS ARE QUOTED TO RUNNING EDGES (RE).
 - THIS DESIGN IS BASED UPON A TOPOGRAPHICAL SURVEY DATED SEPTEMBER 2021, COMPLETED BY MURPHY GEOSPATIAL LTD.
 - CHAINAGE DATUM 9+906.707 IS LOCATED IN THE DOWN SLOW LINE AT 1 MILEPOST (CORK LINE). DOWN LINE CHAINAGE DATUM IS SHOWN ON THIS DRAWING.
 - NEGATIVE SLUES ARE TO THE LEFT. POSITIVE SLUES ARE TO THE RIGHT. CANT SHOWN AS POSITIVE THROUGHOUT, EXCEPT WHERE ADVERSE TO THE DIRECTION OF CURVATURE. ALL IN THE DIRECTION OF INCREASING CHAINAGE.
 - TRACK GAUGE TO BE NOMINAL 1602MM FOR PLAIN LINE AND 1600MM FOR P&C.
 - RADII QUOTED ARE FROM TRACK CENTRELINE, UNLESS OTHERWISE STATED.
 - RAIL LEVELS ARE QUOTED FOR THE LOW RAIL.
 - REFER TO INDIVIDUAL ENGINEERING DISCIPLINES' DESIGN SUBMISSION FOR THEIR RESPECTIVE DETAILS. SEE BIM MODELS FOR INTEGRATION.
 - VERTICAL PROFILE IS SHOWN FOR THE DOWN SLOW. DATA OF THE EXISTING TRACK IS REFERRED TO DOWN SLOW.

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All elevations are in metres and relate to OSi Geoid Model (OSGM02) Mean Head as defined by existing Project Control. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chkd	App'd	Description
v01	23/11/22	CDM	JYM	PR	PLANNING ISSUE

Client
Iarnród Éireann
Irish Rail

Engineering Designer
ATKINS
TYPSA
Supported by: rps

Project Title
DART + SOUTH WEST

Drawing Title
TRACK PLAN LAYOUT AND LONGITUDINAL PROFILE
FROM Ch 19+200 TO Ch 19+800

Drawing File Name
DP-04-23-DWG-RO-TTA-18965

Version
v01

Status
S3

Date
23/11/2022

Scale
AS SHOWN @ A1
@ A3

Drawn
CDM

Checked
JYM

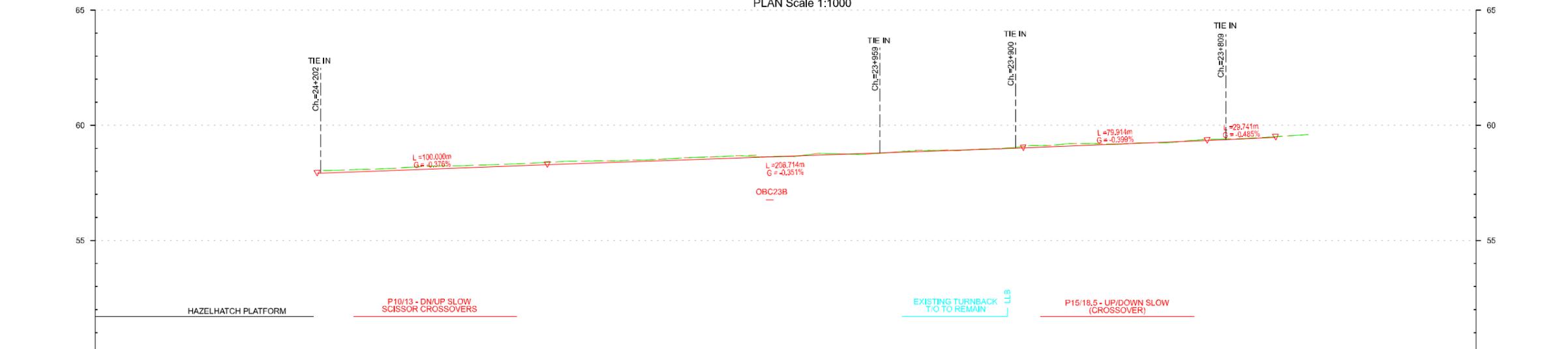
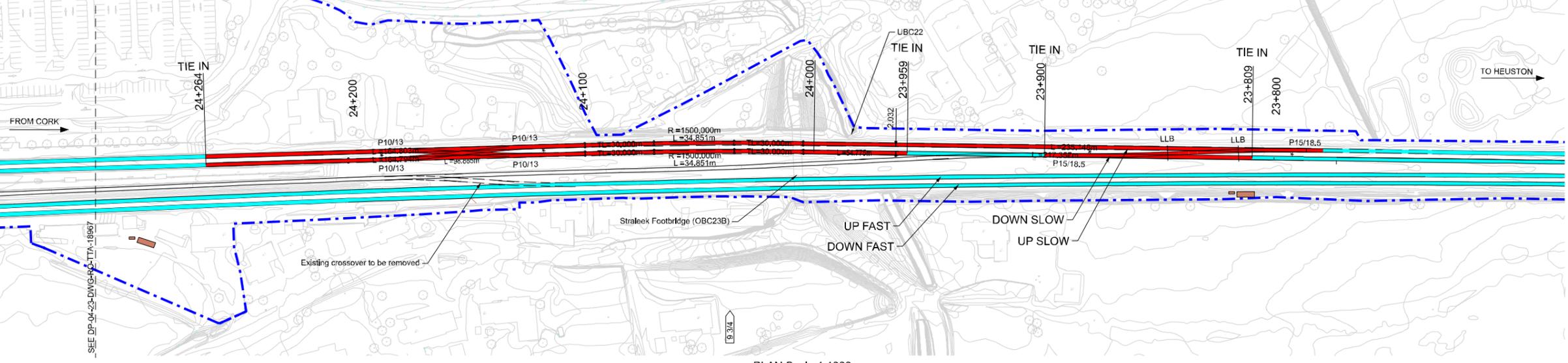
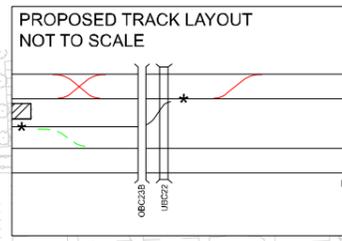
Approved
PR

Project Code
5195586

Issuer
TTA

QMS Code

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



Chainage	Existing Level (m)	Proposed Level (m)	Horizontal Slue (m)	Lift (+) / Lower (-) (m)	Horizontal Alignment (m)	Vertical Alignment (m)	Cant Proposed (mm)	Cant Alignment / Speed
24+300								
24+250	57.735	57.764	-0.001	-0.001			0	C=0mm D=0mm V=100km/h
24+200	57.785	57.829	-0.001	-0.001			0	
24+150	57.881	57.884	0.000	0.000			0	
24+100	58.081	58.116	-0.001	-0.001			0	
24+050	58.117	58.148	-0.012	-0.012			0	
24+000	58.148	58.183	-0.009	-0.009			0	
23+950	58.214	58.231	-0.005	-0.005			0	
23+900	58.250	58.268	-0.003	-0.003			0	
23+850	58.250	58.305	-0.009	-0.009			0	
23+800	58.266	58.340	-0.012	-0.012			0	
23+750	58.323	58.375	-0.005	-0.005			0	
23+700	58.360	58.410	-0.020	-0.020			0	
	58.385	58.446	-0.014	-0.014			0	
	58.431	58.481	-0.012	-0.012			0	
	58.468	58.516	-0.011	-0.011			0	
	58.505	58.551	-0.011	-0.011			0	
	58.540	58.586	-0.012	-0.012			0	
	58.574	58.621	-0.014	-0.014			0	
	58.607	58.656	-0.016	-0.016			0	
	58.640	58.691	-0.017	-0.017			0	
	58.674	58.726	-0.018	-0.018			0	
	58.708	58.761	-0.013	-0.013			0	
	58.748	58.797	-0.003	-0.003			0	
	58.784	58.832	-0.003	-0.003			0	
	58.829	58.867	-0.001	-0.001			0	
	58.867	58.902	0.001	0.001			0	
	58.901	58.937	0.001	0.001			0	
	58.936	58.972	0.001	0.001			0	
	58.971	59.007	0.013	0.013			0	
	59.021	59.045	0.025	0.025			0	
	59.059	59.085	0.026	0.026			0	
	59.109	59.125	0.016	0.016			0	
	59.147	59.165	0.018	0.018			0	
	59.187	59.205	0.018	0.018			0	
	59.230	59.245	0.015	0.015			0	
	59.274	59.285	0.011	0.011			0	
	59.322	59.325	0.003	0.003			0	
	59.371	59.371	-0.000	-0.000			0	
	59.421	59.419	-0.001	-0.001			0	
	59.466	59.468	0.002	0.002			0	
23+700								

PROFILE Scale H=1:1000 V=1:100

LEGEND:

PROPOSED TRACK LAYOUT

- RENEWED TRACK / SLUED TRACK
- EXISTING TRACK TO BE RETAINED
- EXISTING TRACK TO BE REMOVED

PLAN

- RENEWED TRACK / SLUED TRACK
- EXISTING TRACK TO BE RETAINED (MAIN LINES)
- EXISTING TRACK TO BE RETAINED (NOT MAIN LINES)
- EXISTING TRACK TO BE REMOVED
- IE PROPERTY BOUNDARY
- PROPOSED RETAINING WALL
- P8/8 TYPE OF TURNOUT
- ATTENUATION TANK
- PROPOSED TRACK DRAINAGE
- LOW VOLTAGE/TELECOMMUNICATIONS/SIGNALLING CABINETS
- PROPOSED TANGENT POINT
- FOULING POINT
- LLB LAST LONG BEARER
- MILEPOST

LONGITUDINAL PROFILE

- PROPOSED VERTICAL ALIGNMENT
- EXISTING VERTICAL ALIGNMENT
- EXISTING GROUND
- PROPOSED TANGENT POINT
- LLB LAST LONG BEARER

- NOTES**
- CHAINAGES, LEVELS AND COORDINATES ARE SHOWN IN METRES. ALL OTHER DIMENSIONS ARE SHOWN IN MILLIMETRES, UNLESS OTHERWISE STATED. ALL CLEARANCE AND SIX-FOOT INTERVALS ARE QUOTED TO RUNNING EDGES (RE).
 - THIS DESIGN IS BASED UPON A TOPOGRAPHICAL SURVEY DATED SEPTEMBER 2021, COMPLETED BY MURPHY GEOSPATIAL LTD.
 - CHAINAGE DATUM 9+906.707 IS LOCATED IN THE DOWN SLOW LINE AT 1 MILEPOST (CORK LINE). DOWN LINE CHAINAGE DATUM IS SHOWN ON THIS DRAWING.
 - NEGATIVE SLUES ARE TO THE LEFT. POSITIVE SLUES ARE TO THE RIGHT. CANT SHOWN AS POSITIVE THROUGHOUT, EXCEPT WHERE ADVERSE TO THE DIRECTION OF CURVATURE. ALL IN THE DIRECTION OF INCREASING CHAINAGE.
 - TRACK GAUGE TO BE NOMINAL 1602MM FOR PLAIN LINE AND 1600MM FOR P&C.
 - RADI QUOTED ARE FROM TRACK CENTRELINE, UNLESS OTHERWISE STATED.
 - RAIL LEVELS ARE QUOTED FOR THE LOW RAIL.
 - REFER TO INDIVIDUAL ENGINEERING DISCIPLINES' DESIGN SUBMISSION FOR THEIR RESPECTIVE DETAILS. SEE BIM MODELS FOR INTEGRATION.
 - VERTICAL PROFILE IS SHOWN FOR THE DOWN SLOW. DATA OF THE EXISTING TRACK IS REFERRED TO DOWN SLOW.

U:\15199586\6 Dwg-Graphics\4 XRef\6140 Titleblock\DP-4-23-REF-ZZ-30001.dwg

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All elevations are in metres and relate to OSI Geoid Model (OSGM02) Mean Head as defined by existing Project Control.

All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chkd	App'd	Description
v01	23/11/22	CDM	JYM	PR	PLANNING ISSUE

Client
Iarnród Éireann
Irish Rail

Engineering Designer
TYPSA
ATKINS
Supported by: rps

Project Title
DART + SOUTH WEST

Drawing Title
TRACK PLAN LAYOUT AND LONGITUDINAL PROFILE
FROM CH 23+700 TO CH 24+300

Drawing File Name
DP-04-23-DWG-RO-TTA-18966

Version
v01

Status
S3

Date
23/11/2022

Scale
AS SHOWN @ A1 @ A3

Project Code
5199586

Issuer
TTA

Drawn
CDM

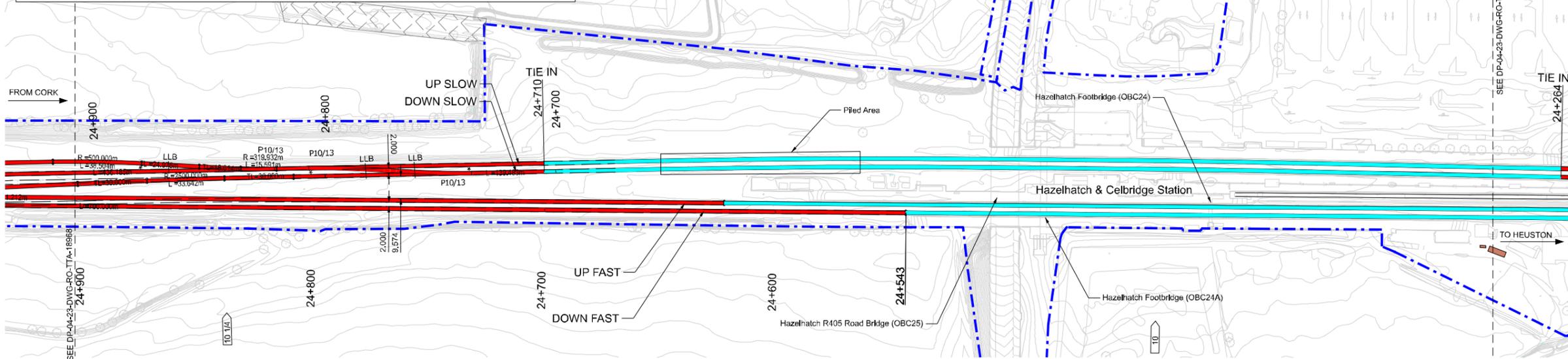
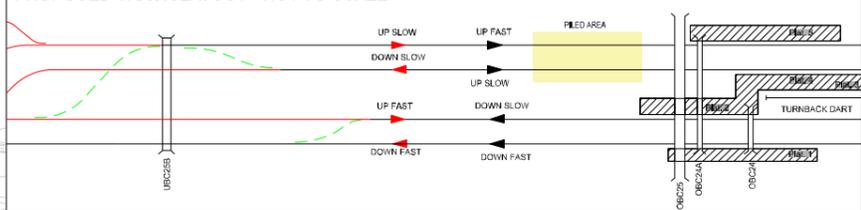
Checked
JYM

Approved
PR

QMS Code

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

PROPOSED TRACK LAYOUT - NOT TO SCALE



PLAN Scale 1:1000



Chainage	Existing Level (m)	Proposed Level (m)	Horizontal Slue (m)	Lift (+) / Lower (-) (m)	Horizontal Alignment (m)	Vertical Alignment (m)	Cant Proposed (mm)	Cant Alignment / Speed
24+900	59.157	59.192	-1.024	0.035	TL=30.000		0	RoCC=0mm/s RoCD=13mm/s CG=1m0 V=65km/h
24+850	59.087	59.082	-0.540	-0.005	R=2500.000 L=33.642		0	C=0mm D=22mm V=65km/h
24+800	58.887	58.917	-0.030	0.030	TL=30.000		0	RoCC=0mm/s RoCD=13mm/s CG=1m0 V=65km/h
24+750	58.615	58.662	-0.047	0.047		L=204.564 G=0.550%	0	
24+700	58.291	58.312	-0.021	0.021			0	
24+650	58.255	58.258	-0.003	0.003			0	
24+600	58.210	58.210	0.000	0.000			0	
24+550	58.163	58.163	-0.001	-0.001			0	
24+500	58.115	58.115	-0.000	-0.000		L=57.375 G=0.478%	0	
24+450	58.067	58.067	-0.000	-0.000			0	
24+400	58.019	58.019	-0.001	-0.001			0	
24+350								
24+300								

PROFILE Scale H=1:1000 V=1:100

LEGEND:

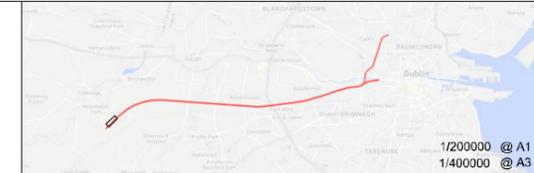
- PROPOSED TRACK LAYOUT**
- RENEWED TRACK / SLUED TRACK
 - EXISTING TRACK TO BE RETAINED
 - EXISTING TRACK TO BE REMOVED
- PLAN**
- RENEWED TRACK / SLUED TRACK
 - EXISTING TRACK TO BE RETAINED (MAIN LINES)
 - EXISTING TRACK TO BE RETAINED (NOT MAIN LINES)
 - EXISTING TRACK TO BE REMOVED
 - IE PROPERTY BOUNDARY
 - PROPOSED RETAINING WALL
 - P8/8 TYPE OF TURNOUT
 - ATTENUATION TANK
 - PROPOSED TRACK DRAINAGE
 - LOW VOLTAGE/TELECOMMUNICATIONS/SIGNALLING CABINETS
 - PROPOSED TANGENT POINT
 - FOULING POINT
 - LLB LAST LONG BEARER
 - MILEPOST
- LONGITUDINAL PROFILE**
- PROPOSED VERTICAL ALIGNMENT
 - EXISTING VERTICAL ALIGNMENT
 - EXISTING GROUND
 - PROPOSED TANGENT POINT
 - LLB LAST LONG BEARER

NOTES

- CHAINAGES, LEVELS AND COORDINATES ARE SHOWN IN METRES. ALL OTHER DIMENSIONS ARE SHOWN IN MILLIMETRES, UNLESS OTHERWISE STATED. ALL CLEARANCE AND SIX-FOOT INTERVALS ARE QUOTED TO RUNNING EDGES (RE).
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- VERTICAL PROFILE IS SHOWN FOR THE DOWN SLOW. DATA OF THE EXISTING TRACK IS REFERRED TO DOWN SLOW.

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 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chkd	App'd	Description
v01	23/11/22	CDM	JYM	PR	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Supported by **TPYSA** and **rps**)

Date: 23/11/2022 | Scale: AS SHOWN @ A1 @ A3 | Drawn: CDM | Checked: JYM | Approved: PR

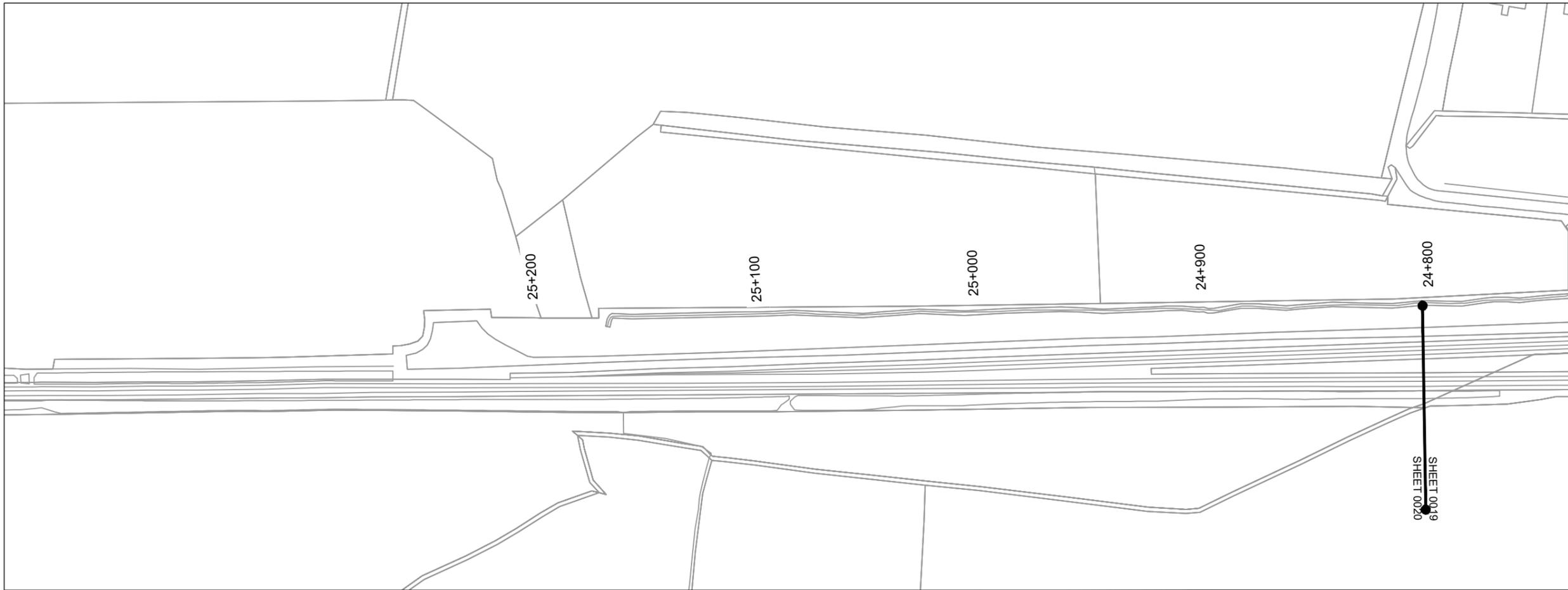
Project Code: 5199586 | Issuer: TTA | OMS Code:

Project Title: **DART + SOUTH WEST**

Drawing Title: **TRACK PLAN LAYOUT AND LONGITUDINAL PROFILE FROM Ch 24+300 To Ch 24+900**

Drawing File Name: **DP-04-23-DWG-RO-TTA-18967** | Version: v01 | Status: S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



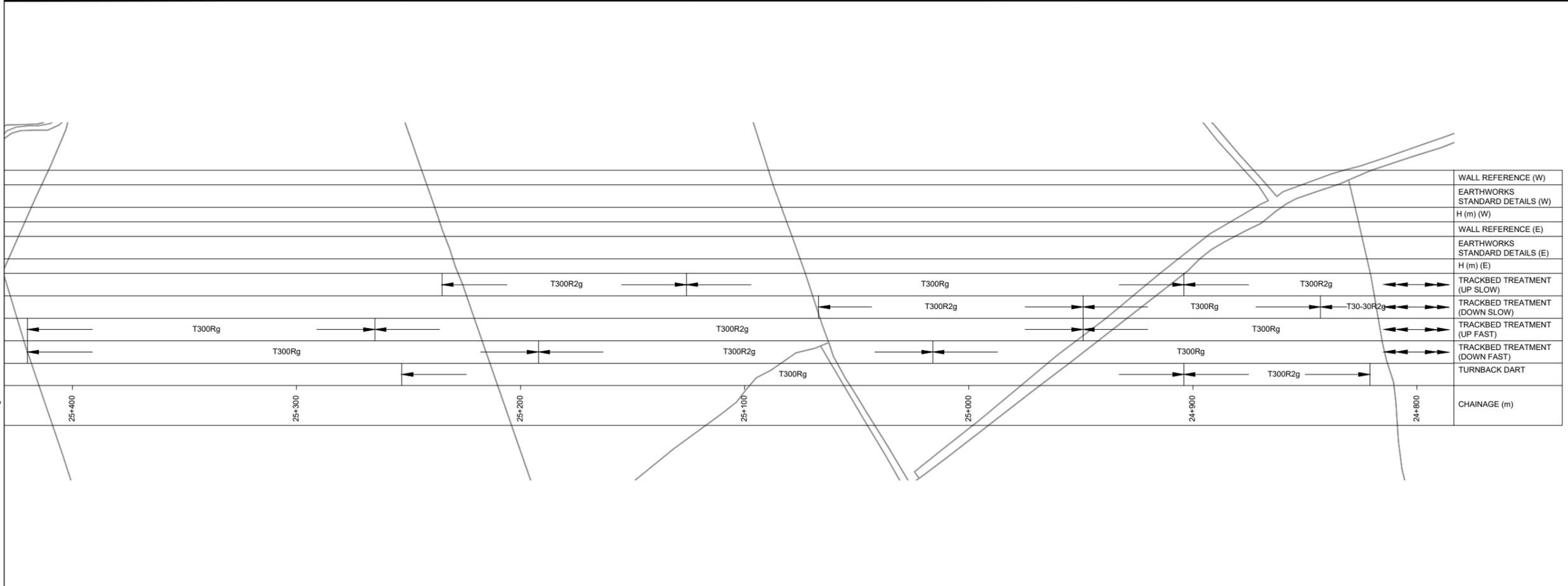
LEGEND:

- PROPOSED SECANT PILE WALL
- PROPOSED SECANT PILE WALL ANCHORS
- PROPOSED KING POST WALL
- PROPOSED ANCHOR SUBSTANTUM WAYLEAVE
- APPROACH TO EXISTING OVERBRIDGE / TUNNEL (EXTENTS ARE APPROXIMATE AND DESIGN TO BE DEVELOPED AT DETAILED DESIGN)
- PROPOSED GABION WALL
- PROPOSED CANTILIEVER WALL
- INDICATIVE EXTENTS OF ADDITIONAL SOIL NAILING AS SLOPE REMEDIATION BEHIND WALL
- INDICATIVE EXTENTS OF SLOPE REGRAVING / PROVISION OF GRANULAR SHOULDER AS SLOPE REMEDIATION BEHIND WALL
- ▶ END OF SECTION
- ◀ CONTINUATION OF SECTION
- ▲ EARTHWORK SLOPE
- H INDICATIVE BANK HEIGHT / CUTTING DEPTH

NOTES:

- FOR EARTHWORKS STANDARD DETAILS REFER TO DRAWINGS DP-04-23-DWG-RO-TTA-18960 TO DP-04-23-DWG-RO-TTA-18964.
- WALL ANCHOR LOCATIONS INDICATE ANTICIPATED TEMPORARY OR PERMANENT ANCHORS.
- TRACKBED TREATMENTS MARKED (✱) SPECIFIED FOR GREENFIELD SITES. PRELIMINARY ALTERNATIVE TREATMENTS TO BE FURTHER CONSIDERED, FOLLOWING APPROVAL FROM IE, ARE PRESENTED IN TABLE BELOW:

PROPOSED TRACK TREATMENTS	ALTERNATIVE TRACK TREATMENTS
T350g	T150R2g
T350Rg	
T450g	T300R2g
T450Rg	
T525g	T350R2g
T525Rg	



	WALL REFERENCE (W)
	EARTHWORKS STANDARD DETAILS (W)
	H (m) (W)
	WALL REFERENCE (E)
	EARTHWORKS STANDARD DETAILS (E)
	H (m) (E)
	TRACKBED TREATMENT (UP SLOW)
	TRACKBED TREATMENT (DOWN SLOW)
	TRACKBED TREATMENT (UP FAST)
	TRACKBED TREATMENT (DOWN FAST)
	TURNBACK DART
	CHAINAGE (m)

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Rev	Date	Drn	Chk'd	App'd	Description
v01	10.11.22	KH	PC	PC	PLANNING ISSUE

Client: **Iarnród Éireann**

Engineering Designer: **ATKINS**
 Member of the SNC Lavalin Group

Supported by: **FPS**

Date: 29.11.21 | Scale: 1:1000 @ A1, 1:2000 @ A3 | Drawn: RG | Checked: PC | Approved: PC

Project Code: 5199586 | Issuer: TTA | QMS Code:

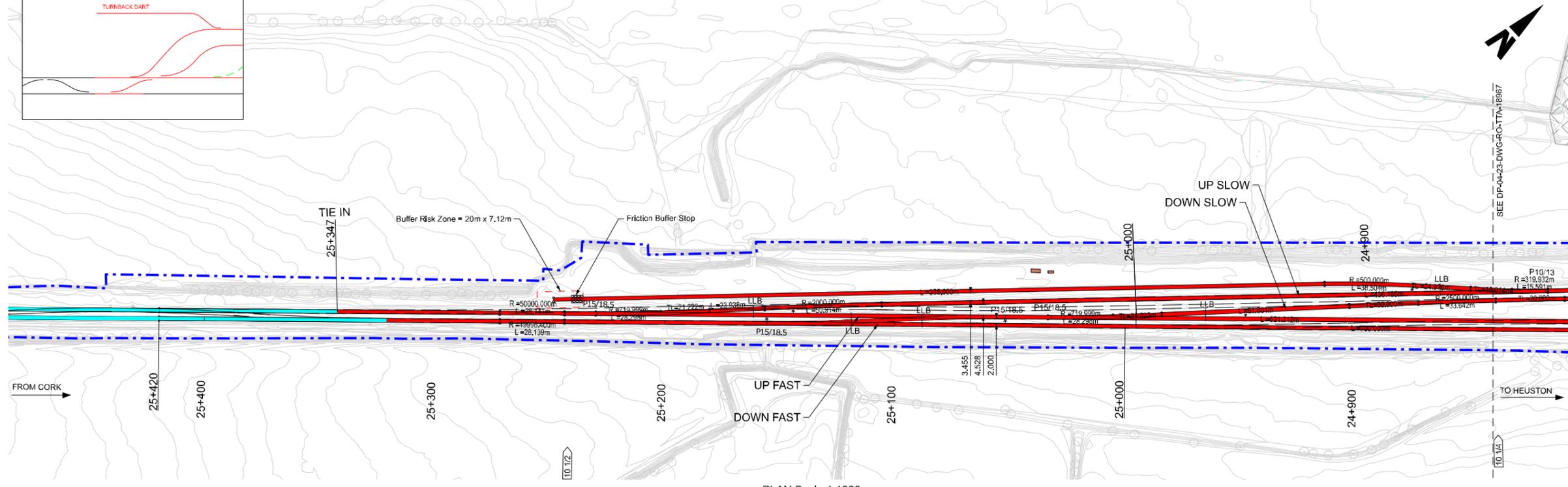
Project Title: DART + SOUTH WEST

Drawing Title: CHERRY ORCHARD FOOT BRIDGE TO HAZELHATCH EARTHWORKS SHEET 20

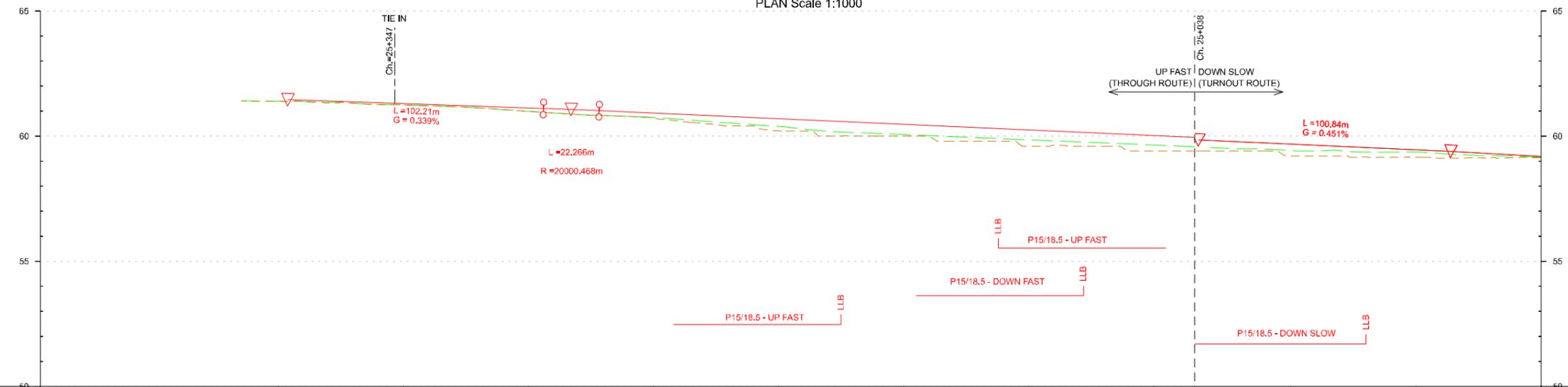
Drawing File Name: DP-04-23-DWG-RO-TTA-19034 | **Version:** v01 | **Status:** S3

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

PROPOSED TRACK LAYOUT
NOT TO SCALE



PLAN Scale 1:1000



PROFILE Scale H=1:1000 V=1:100

Chainage	Existing Level (m)	Proposed Level (m)	Horizontal Slue (m)	Lift (+) / Lower (-) (m)	Horizontal Alignment (m)	Vertical Alignment (m)	Cant Proposed (mm)	Cant Alignment / Speed
25+450	61.352	61.380	-0.028	0.028	STR L=148.041		0	C=0mm D=0mm V=160km/h
25+400	61.279	61.346	-0.067	0.067		L=102.213 G=0.3339%	0	
25+350	61.256	61.312	-0.056	0.056			0	
25+300	61.225	61.278	-0.053	0.053			0	
25+250	61.190	61.244	-0.054	0.055			0	
25+200	61.157	61.210	-0.053	0.053			0	
25+150	61.084	61.177	-0.093	0.083			0	
25+100	61.028	61.143	-0.115	0.114			0	
25+050	60.962	61.108	-0.146	0.146			0	
25+000	60.897	61.073	-0.176	0.176			0	
24+950	60.832	61.032	-0.200	0.200			0	
24+900	60.802	60.998	-0.196	0.196			0	
24+850	60.767	60.943	-0.176	0.175			0	
24+800	60.705	60.898	-0.193	0.192			0	
24+750	60.655	60.853	-0.200	0.217			0	
24+700	60.564	60.808	-0.244	0.243			0	
24+650	60.490	60.763	-0.273	0.272			0	
24+600	60.419	60.718	-0.300	0.298			0	
24+550	60.359	60.673	-0.314	0.334			0	
24+500	60.237	60.628	-0.391	0.391			0	
24+450	60.170	60.583	-0.413	0.412			0	
24+400	60.129	60.538	-0.409	0.409			0	
24+350	60.087	60.493	-0.406	0.405			0	
24+300	60.046	60.448	-0.402	0.402			0	
24+250	60.004	60.403	-0.399	0.399			0	
24+200	59.962	60.358	-0.396	0.395			0	
24+150	59.921	60.313	-0.392	0.392			0	
24+100	59.879	60.268	-0.389	0.388			0	
24+050	59.838	60.223	-0.385	0.385			0	
24+000	59.796	60.178	-0.382	0.382			0	
23+950	59.754	60.133	-0.379	0.378			0	
23+900	59.713	60.088	-0.375	0.375			0	
23+850	59.671	60.043	-0.372	0.371			0	
23+800	59.630	59.998	-0.368	0.368			0	
23+750	59.534	59.814	-0.280	0.280			0	
23+700	59.495	59.769	-0.274	0.274			0	
23+650	59.477	59.724	-0.246	0.246			0	
23+600	59.421	59.678	-0.257	0.257			0	
23+550	59.411	59.633	-0.223	0.223			0	
23+500	59.415	59.588	-0.174	0.174			0	
23+450	59.362	59.543	-0.181	0.181			0	
23+400	59.360	59.498	-0.138	0.138			0	
23+350	59.365	59.453	-0.088	0.088			0	
23+300	59.293	59.408	-0.115	0.115			0	
23+250	59.238	59.357	-0.119	0.119			0	
23+200	59.211	59.302	-0.091	0.091			0	
23+150	59.207	59.247	-0.040	0.040			0	
23+100	59.157	59.192	-0.035	0.035			0	

LEGEND:

PROPOSED TRACK LAYOUT

- RENEWED TRACK / SLUED TRACK
- EXISTING TRACK TO BE RETAINED
- EXISTING TRACK TO BE REMOVED

PLAN

- RENEWED TRACK / SLUED TRACK
- EXISTING TRACK TO BE RETAINED (MAIN LINES)
- EXISTING TRACK TO BE RETAINED (NOT MAIN LINES)
- EXISTING TRACK TO BE REMOVED
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- PROPOSED RETAINING WALL
- P8/8 TYPE OF TURNOUT
- ATTENUATION TANK
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- LOW VOLTAGE/TELECOMMUNICATIONS/SIGNALLING CABINETS
- PROPOSED TANGENT POINT
- FOULING POINT
- LLB LAST LONG BEARER
- MILEPOST

LONGITUDINAL PROFILE

- PROPOSED VERTICAL ALIGNMENT
- EXISTING VERTICAL ALIGNMENT
- EXISTING GROUND
- PROPOSED TANGENT POINT
- LLB LAST LONG BEARER

- NOTES**
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 - VERTICAL PROFILE IS SHOWN FOR THE DOWN SLOW. DATA OF THE EXISTING TRACK IS REFERRED TO DOWN SLOW.

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All elevations are in metres and relate to OSI Geoid Model (OSGM02) Malin Head as defined by existing Project Control. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active GPS station Tallaght College (TLLG).



Rev	Date	Drn	Chkd	App'd	Description
v01	23/11/22	CDM	JYM	PR	PLANNING ISSUE

Client
Iarnród Éireann
Irish Rail

Engineering Designer
TYPASA
ATKINS
Supported by: rps

Project Title
DART + SOUTH WEST

Drawing Title
TRACK PLAN LAYOUT AND LONGITUDINAL PROFILE
FROM Ch 24+900 TO Ch 25+360

Drawing File Name
DP-04-23-DWG-RO-TTA-18968

Version
v01

Status
S3

Date
23/11/2022

Scale
AS SHOWN @ A1 @ A3

Drawn
CDM

Checked
JYM

Approved
PR

Project Code
519586

Issuer
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QMS Code

DO NOT SCALE USE FIGURED DIMENSIONS ONLY