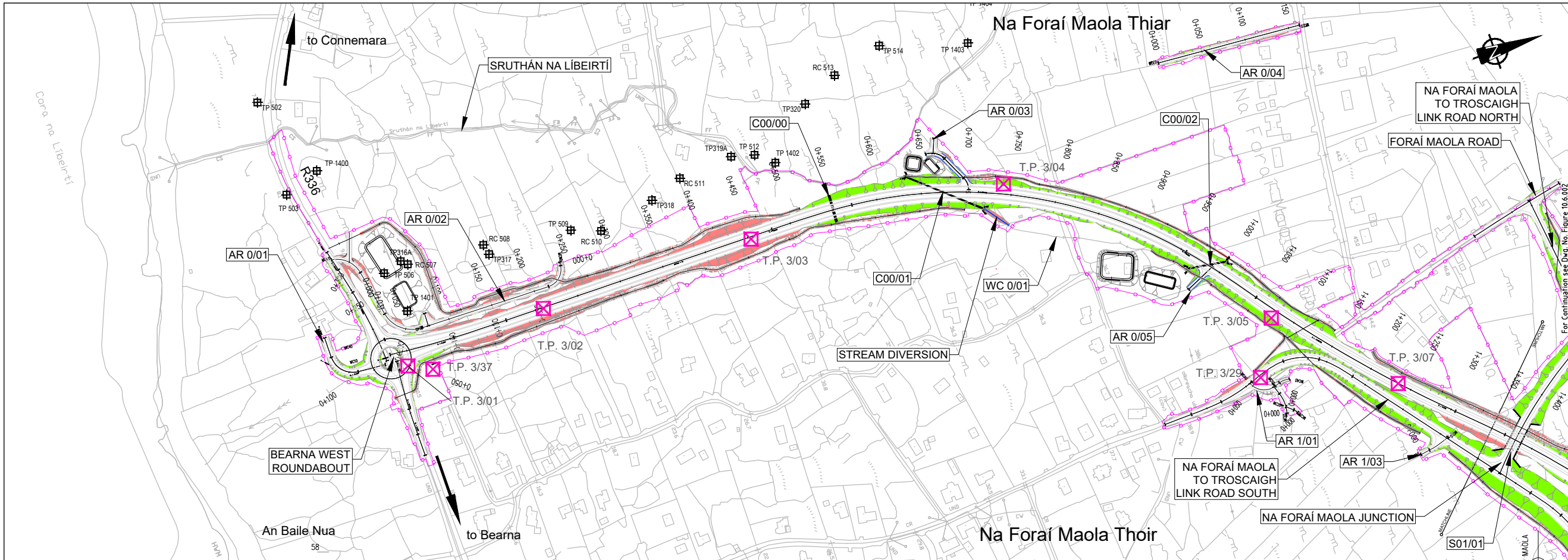




EIA REPORT

Legend:

PLAN

City Boundary

Assessment Boundary

Proposed N6 GCRR

Earthworks - Fill

Earthworks - Cut

Structure (S)

Proposed Retaining wall (R)

Proposed Culvert (C)

Proposed Environmental Underpass (C)

Proposed Attenuation Pond / Infiltration Basin/Wetlands

Geology

B.H. No.

B.H. No. R

T.P. No.

W.S. No.

S.W. No.

B.H.No.

B.H.No.

G.I. Code & Number

Geophysics

R19 GP3/24

S19

Geophysics Locations

PROFILE

Existing Ground

Proposed Geometry Profile

Maximum Groundwater Level

Minimum Groundwater Level

LACKAGH TUNNEL & GALWAY RACECOURSE TUNNEL

Geology

Weathered Rock [WrR]

Topsoil [TOP]

Silt [Si]

Sand [Sa]

Peat [PEAT]

Made Ground [MG]

CONCRETE

LIMESTONE

MUDSTONE

NO RECOVERY

CLAY

Sandy CLAY

Gravelly COBBLES

CLAYEY COBBLES

COBBLES

GRAVEL

Sandy SILT

SILT

Limestone [LSRck]

Gravel [GR]

Clay [CI]

Cobbles and Boulders [Cb]

Granite [TGrRck]

Silty SAND

Organic CLAY

SAND

Cobbly CLAY

BOULDERS

Gravelly CLAY

Silty sandy gravelly CLAY

Fill (MADE GROUND)

Sandy cobbly CLAY

TOPSOIL

COBBLES and BOULDERS

Sandy gravelly cobbly CLAY

Geophysics

Layers from Seismic Refraction Model:

Ground Surface/Top of Layer 1 (200 - 340m/s)

Top of Layer 2 (900 - 1200m/s)

Top of Layer 3 (2000 - 2400m/s)

Top of Layer 4 (4000 - 5000m/s)

20.0

40.0

80.0

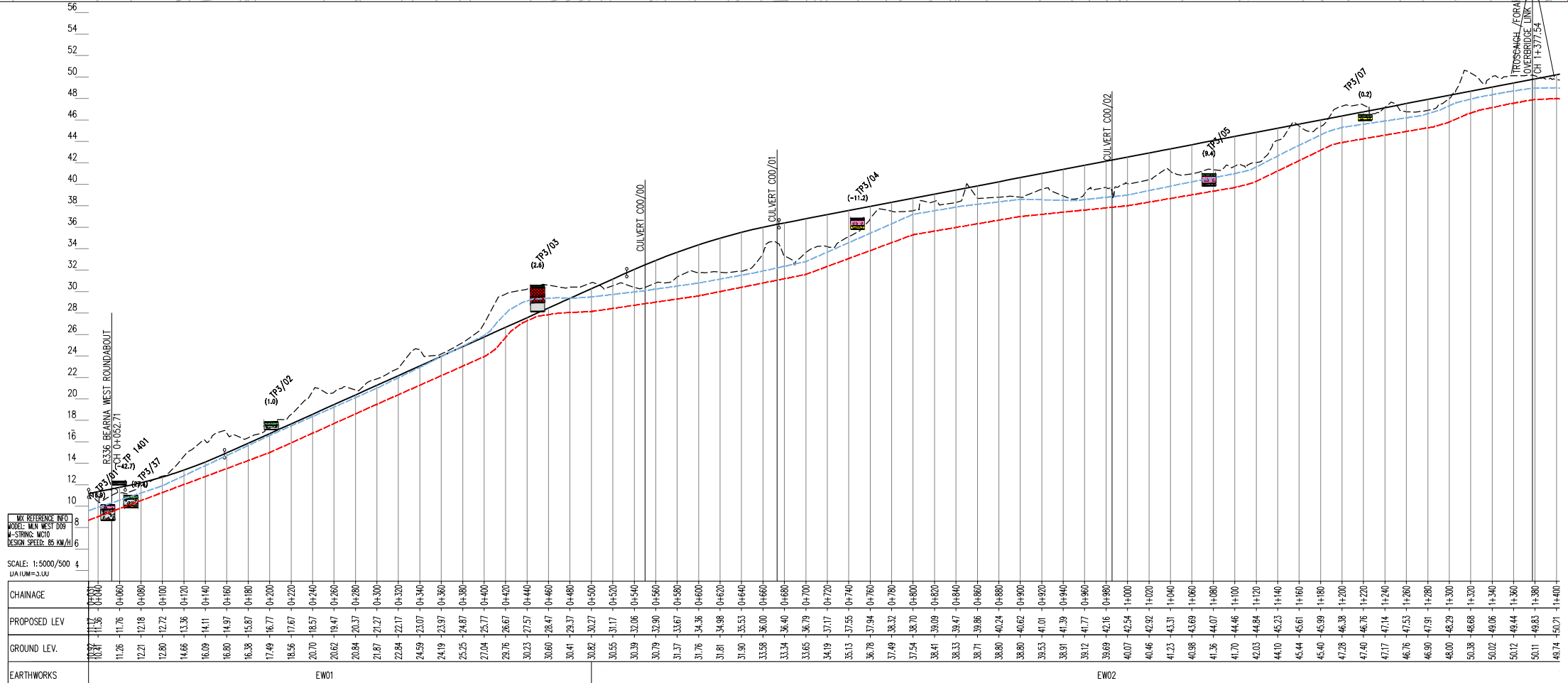
160

320

640

1280

2560



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Clients

An Roinn Iompair
Department of Transport

Tionscadal Eireann
Project Ireland 2040

Galway City
Transport Project

Comhairle Chontae na Gaillimhe
Galway County Council

TII

Key Plan

ARUP

Corporate House
City East Business Park
Ballybrit, Galway, Ireland.

Tel +353 (0)91 460675
www.N6GalwayCity.ie
www.arup.ie

Job Title

N6 Galway City Ring Road

Scale

H 1:5000 / V 1:500 @ A3

Date:

February 2025

Job No

233985

Issue

1

By

SK

Chkd

EC

Appd

MH

Drawing Title

Hydrogeology Plan & Profile

Mainline Plan/Profile - CH.0+000 to CH.1+350

Sheet 1 of 12

Drawing Status

For Information

Job No

233985

Drawing No

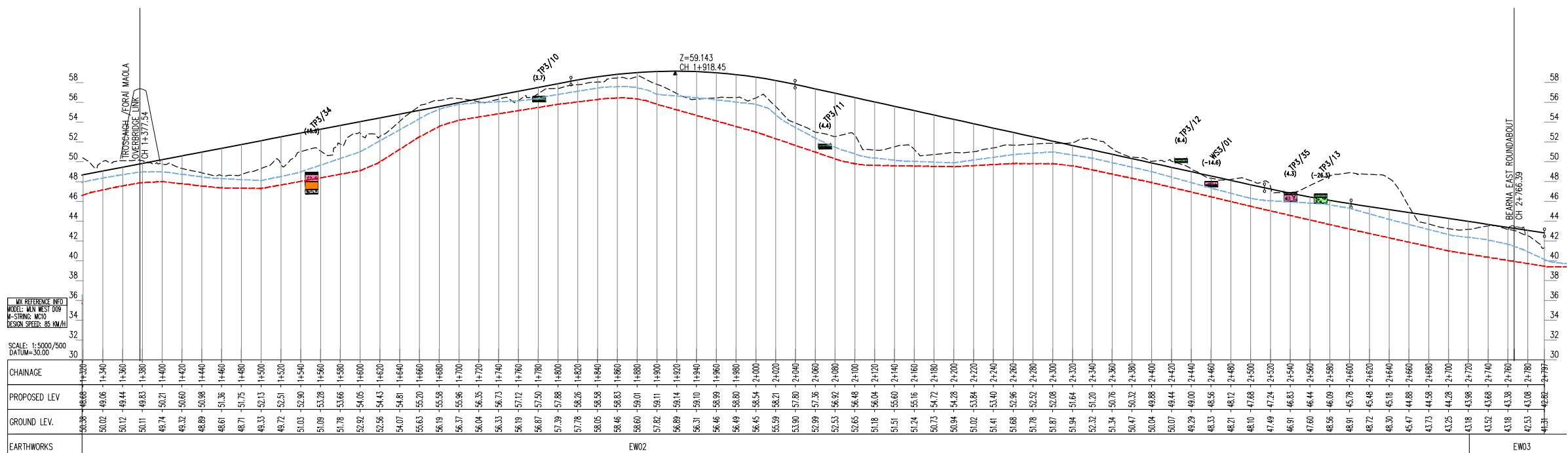
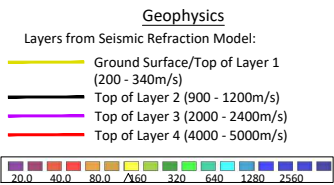
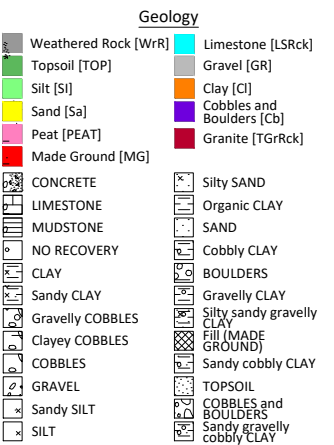
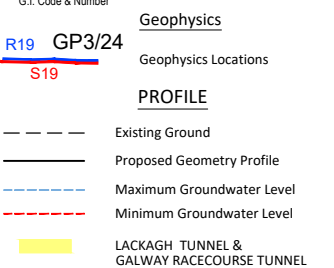
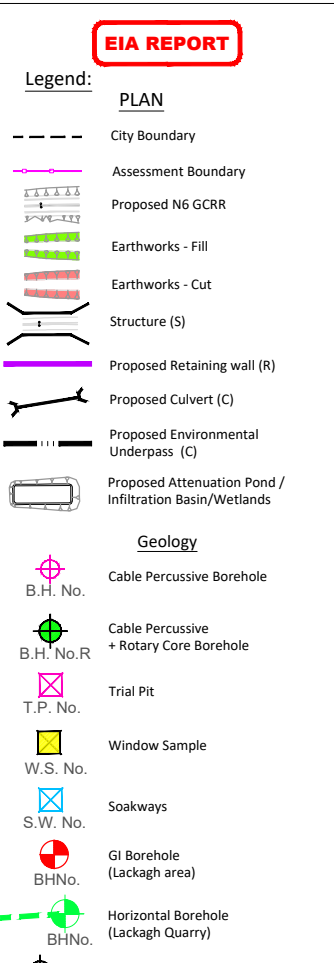
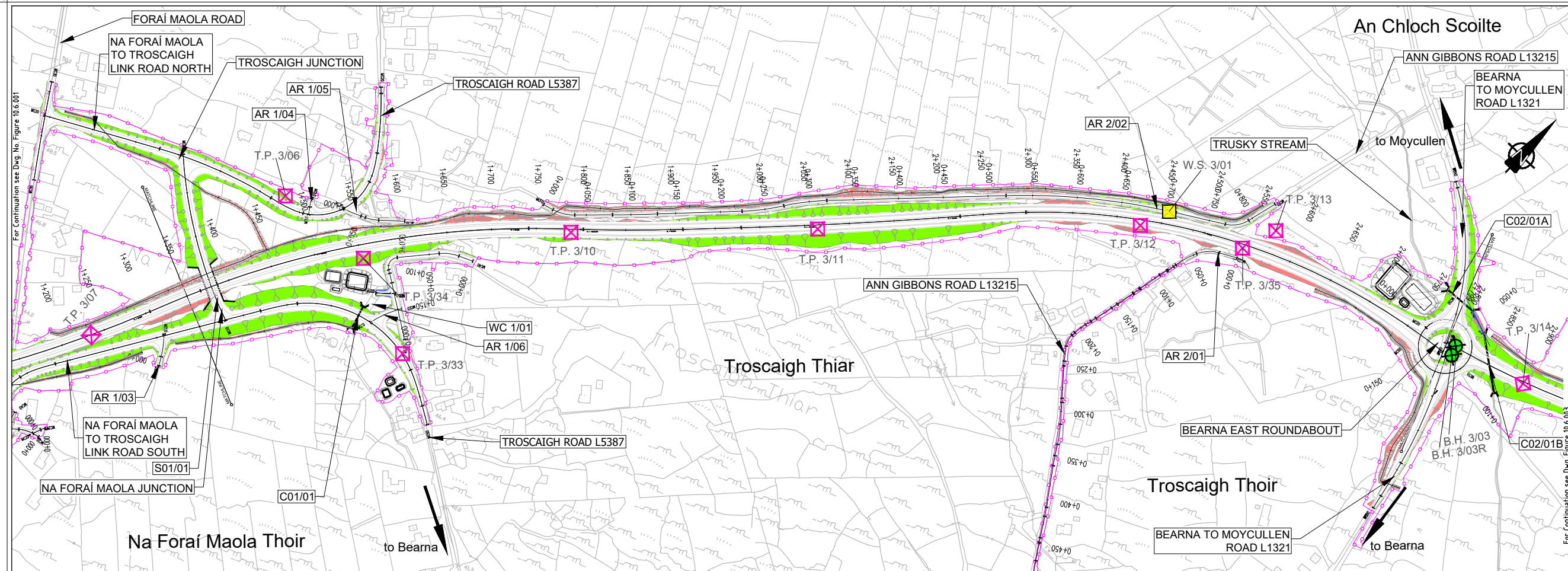
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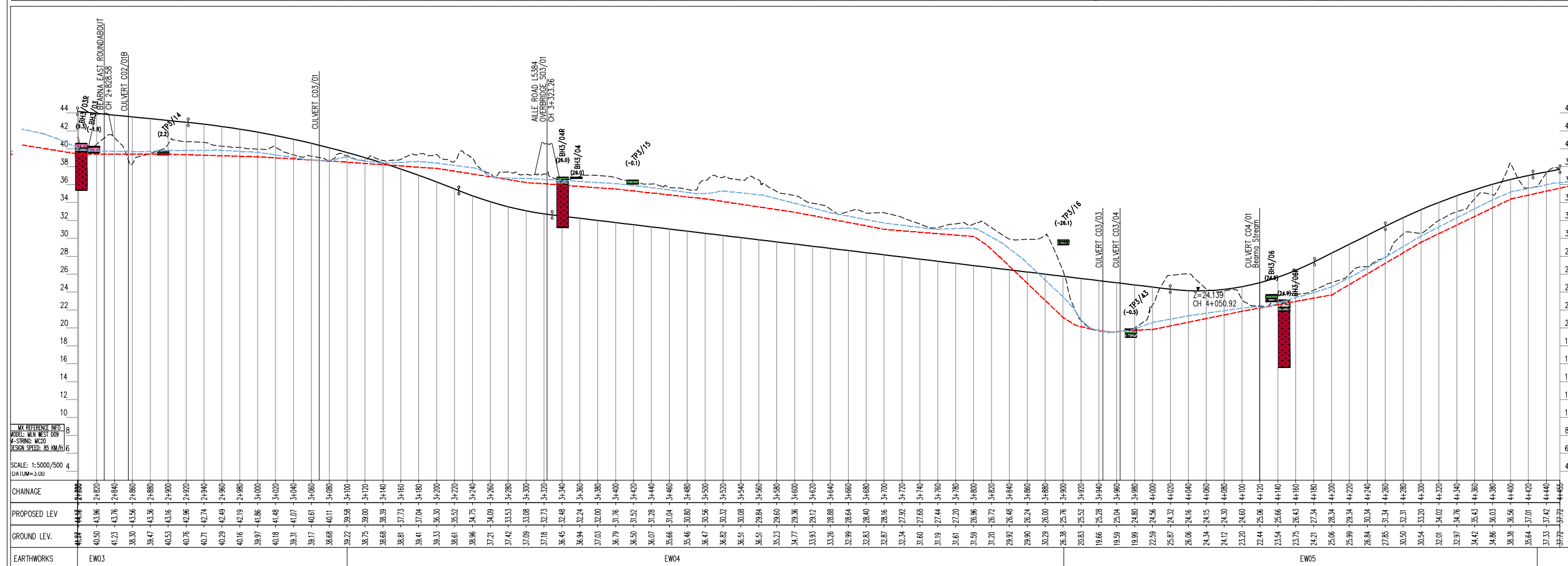
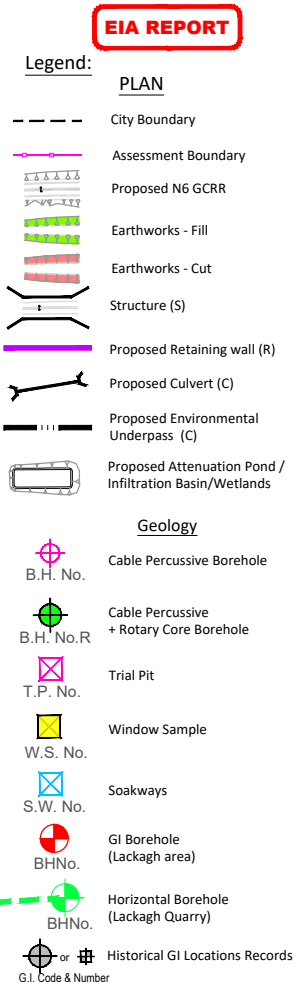
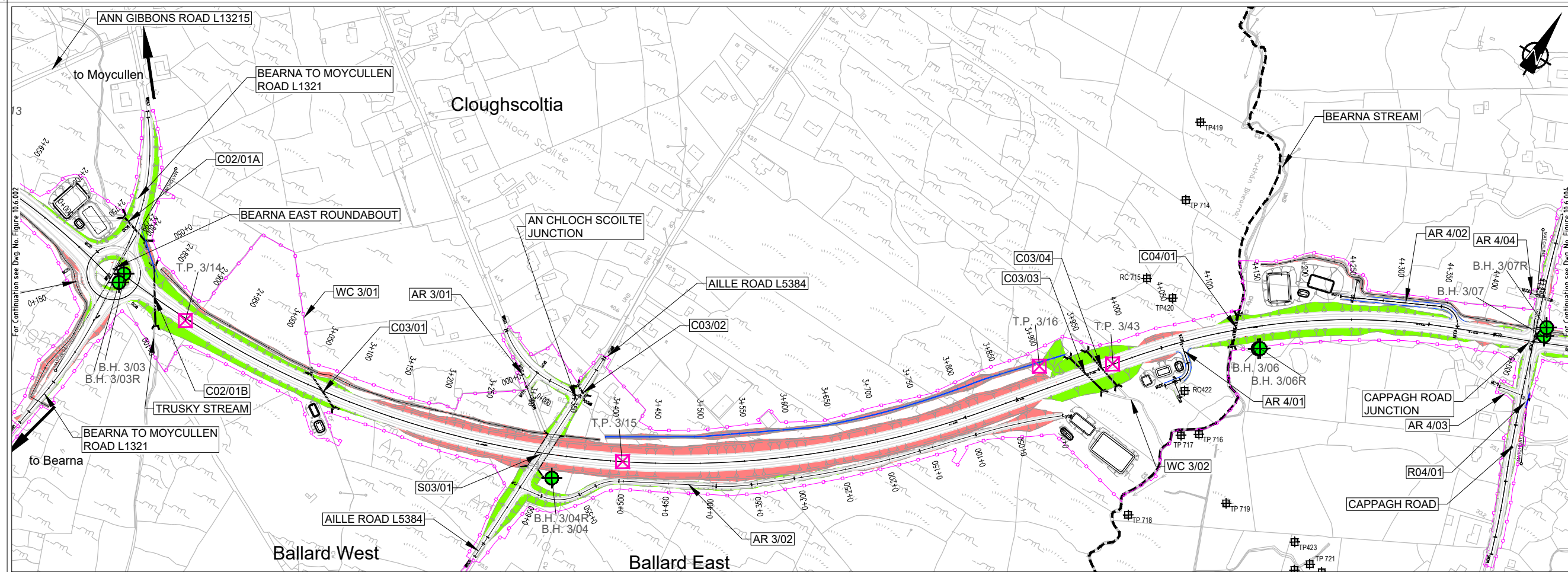
Issue

11

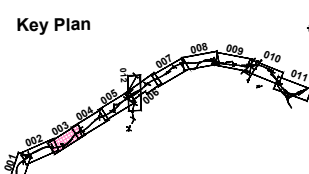
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Job Title
N6 Galway City Ring Road

Scale
H 1:5000 / V 1:500 @ A3

Date
February 2025

Job No	Date	By	EC	MH
233985	28/02/2025	SK	EC	MH
Issue	Date	By	Chkd	Appd

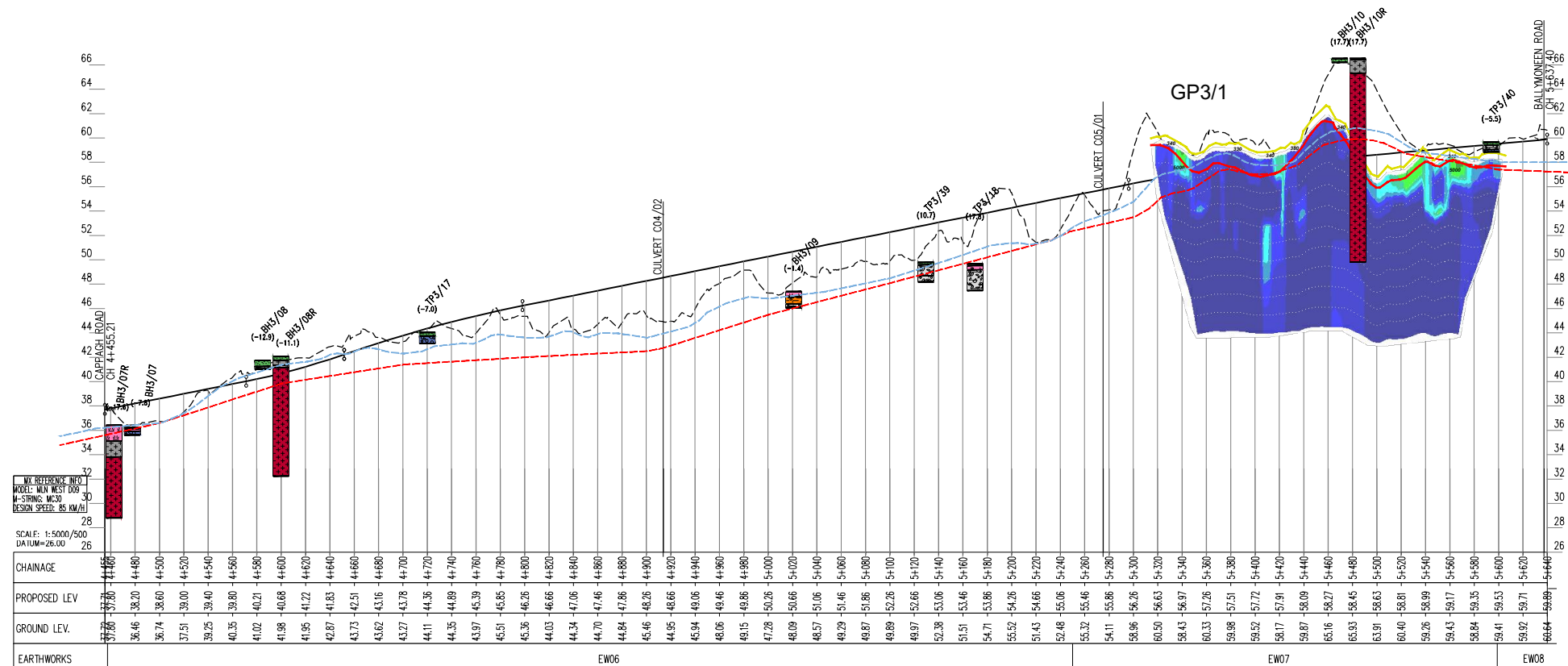
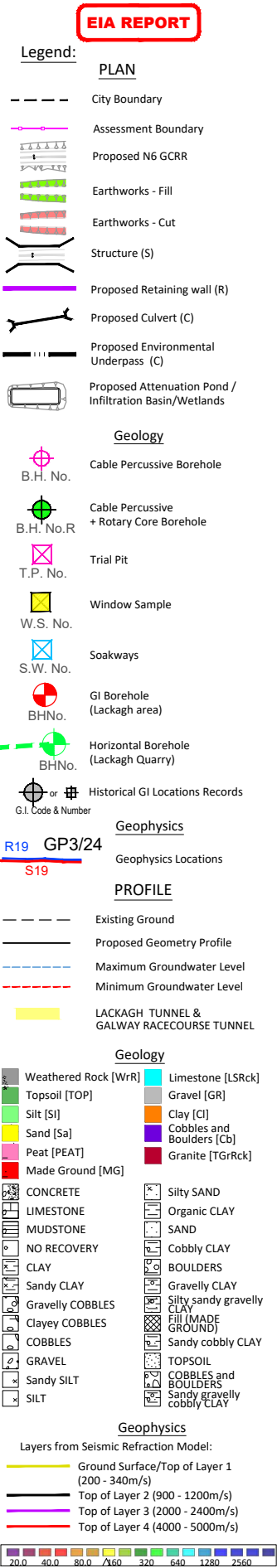
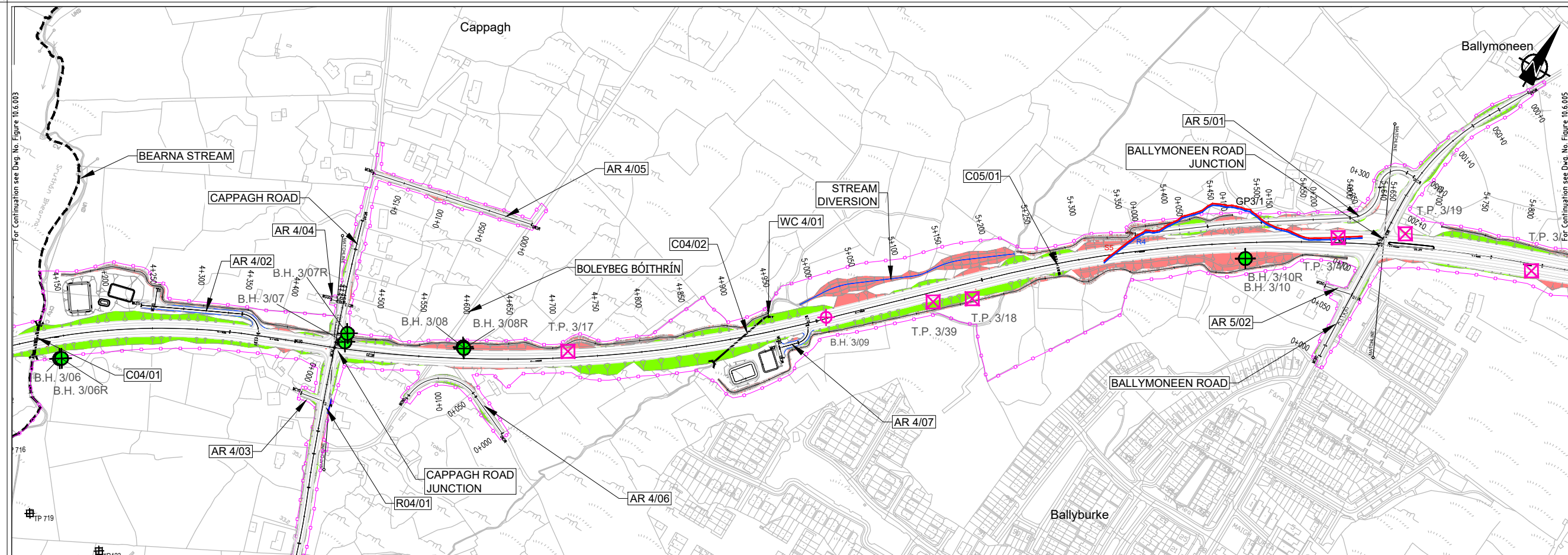
Drawing Title
Hydrogeology Plan & Profile
Mainline Plan/Profile - CH.2+799 to CH.4+455
Sheet 3 of 12

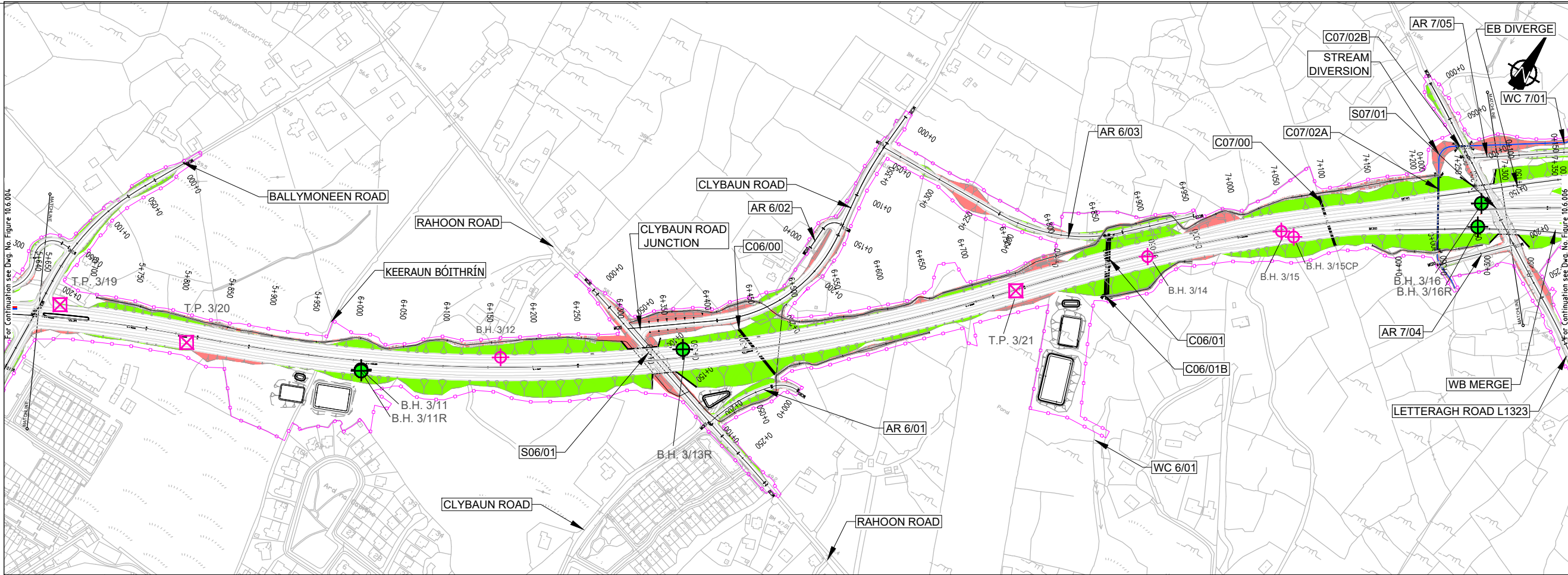
Drawing Status
For Information

Job No
233985

Drawing No
Figure 10.6.003

Issue
11





EIA REPORT

Legend:

PLAN

City Boundary

Assessment Boundary

Proposed N6 GCRR

Earthworks - Fill

Earthworks - Cut

Structure (S)

Proposed Retaining wall (R)

Proposed Culvert (C)

Proposed Environmental Underpass (C)

Proposed Attenuation Pond / Infiltration Basin/Wetlands

Geology

B.H. No.

B.H. No.R

T.P. No.

Window Sample

Soakways

GI Borehole (Lackagh area)

BHNo.

Horizontal Borehole (Lackagh Quarry)

BHNo.

G.I. Code & Number

Geophysics

Geophysics Locations

PROFILE

Existing Ground

Proposed Geometry Profile

Maximum Groundwater Level

Minimum Groundwater Level

LACKAGH TUNNEL & GALWAY RACECOURSE TUNNEL

Geology

Weathered Rock [Wrr]

Topsoil [TOP]

Silt [SI]

Sand [Sa]

Peat [PEAT]

Made Ground [MG]

CONCRETE

LIMESTONE

MUDSTONE

NO RECOVERY

CLAY

Sandy CLAY

Gravelly COBBLES

CLAYEY COBBLES

COBBLES

GRAVEL

Sandy SILT

SILT

Limestone [LSRck]

Gravel [GR]

Clay [CI]

Cobbles and Boulders [Cb]

Granite [TGrck]

Silty SAND

Organic CLAY

SAND

Cobbly CLAY

BOULDERS

Gravelly CLAY

Silty sandy gravelly CLAY

FILL (MADE GROUND)

Sandy cobbly CLAY

TOPSOIL

COBBLES and BOULDERS

Sandy gravelly COBBLY CLAY

Geophysics

Layers from Seismic Refraction Model:

Ground Surface/Top of Layer 1 (200 - 340m/s)

Top of Layer 2 (900 - 1200m/s)

Top of Layer 3 (2000 - 2400m/s)

Top of Layer 4 (4000 - 5000m/s)

20.0

40.0

80.0

X60

320

640

1280

2560

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Client

An Roinn Iompair
Department of Transport

Tionscadal Éireann
Project Ireland 2040

Comhairle Chontae na Gaillimhe
Galway County Council

Key Plan

Consultant

ARUP

Corporate House
City East Business Park
Ballybrit, Galway, Ireland.

Tel +353 (0)91 460675
www.N6GalwayCity.ie
www.arup.ie

Job Title

N6 Galway City Ring Road

Scale

H 1:5000 / V 1:500 @ A3

Date

February 2025

Drawing Title

Hydrogeology Plan & Profile
Mainline Plan/Profile - CH.5+640 to CH.7+300
Sheet 5 of 12

Drawing Status

For Information

Job No

233985

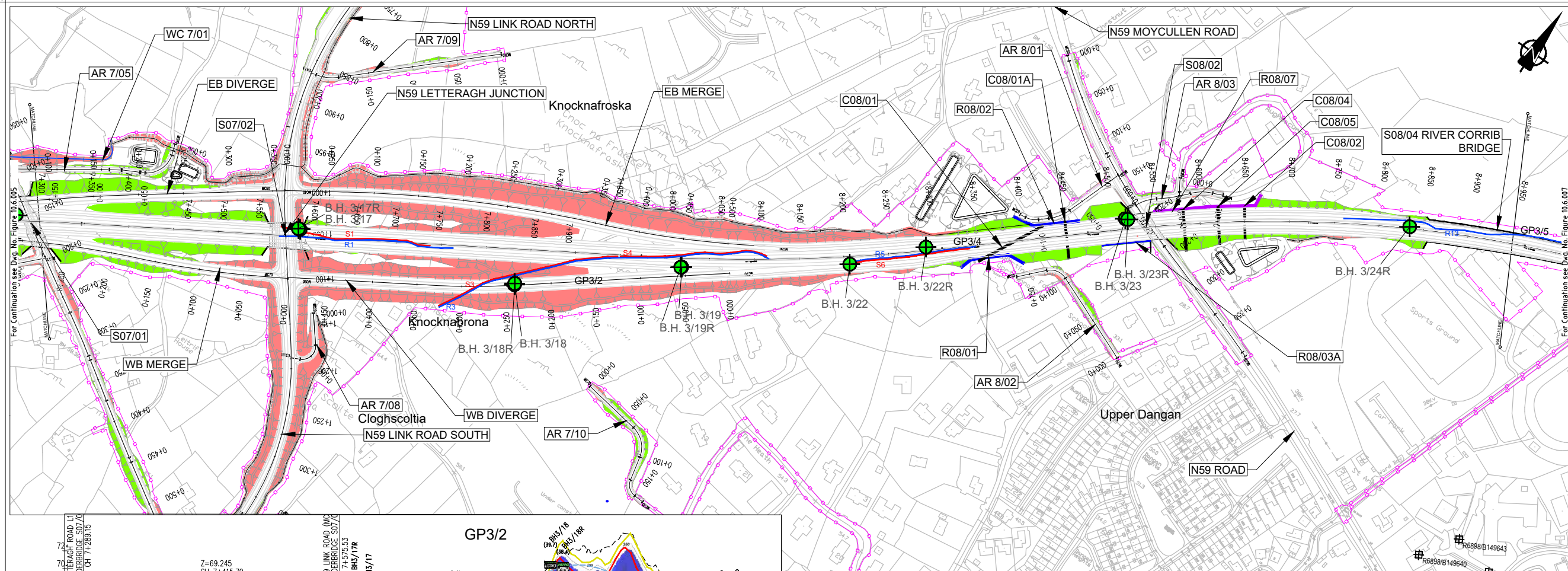
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Issue

11

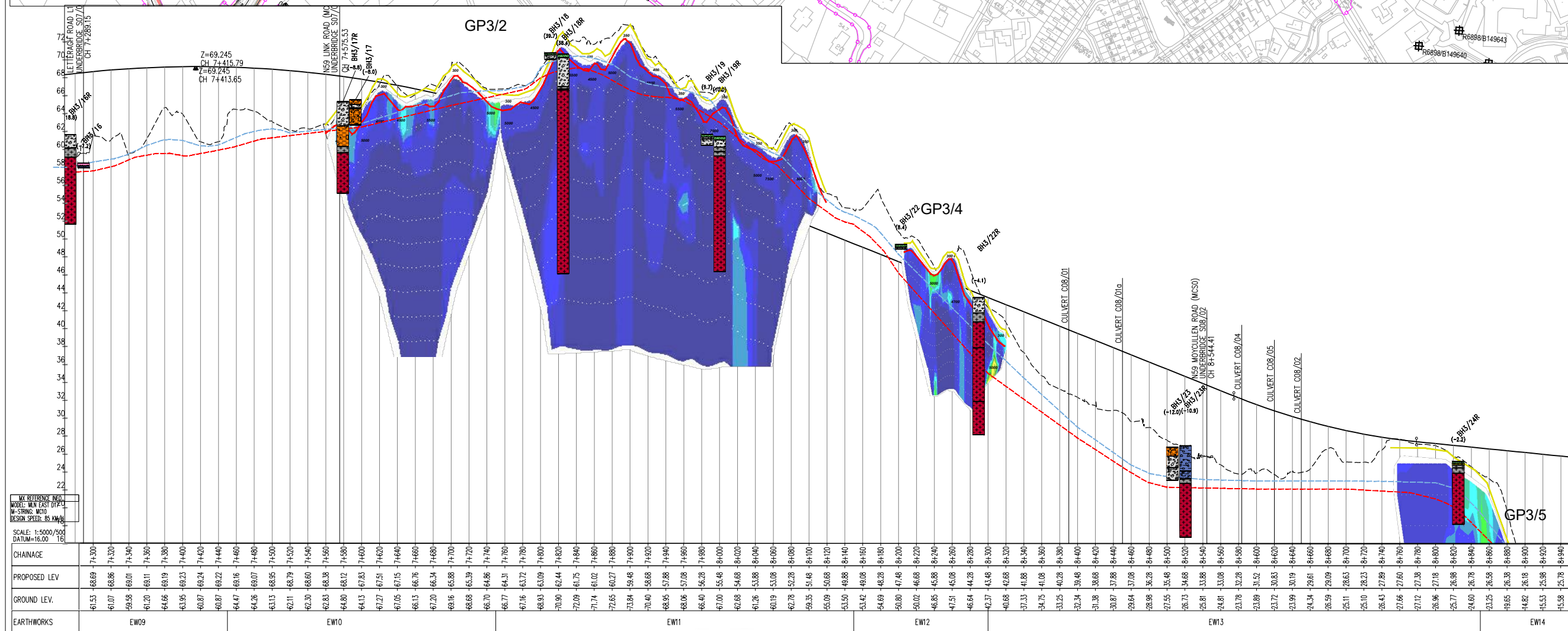
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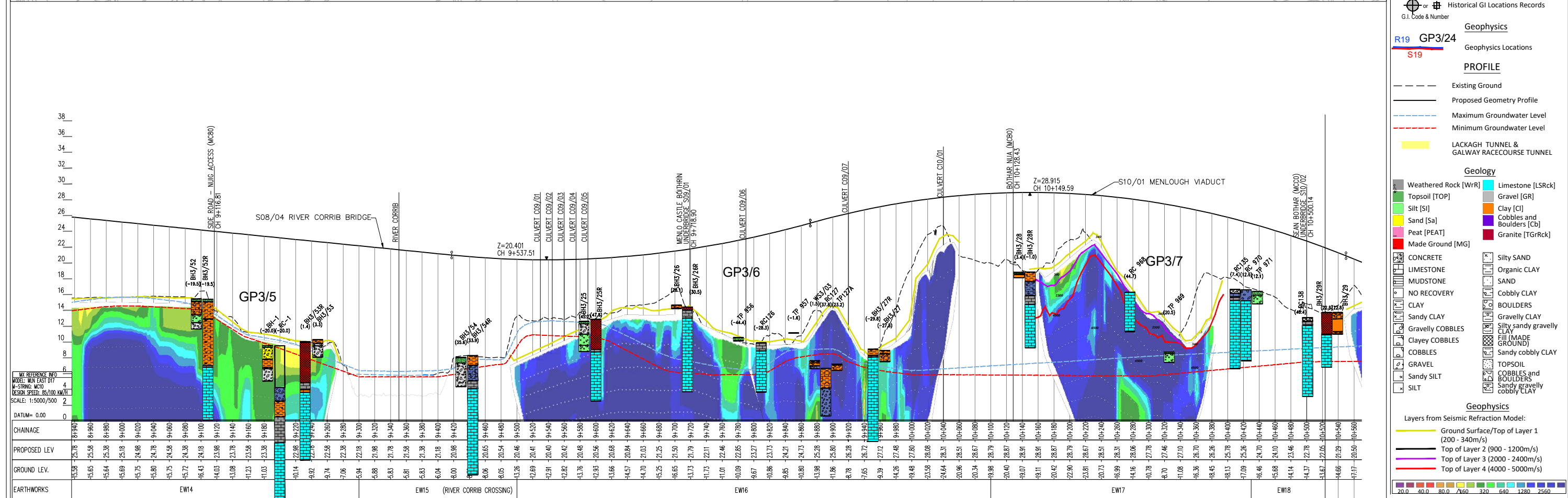
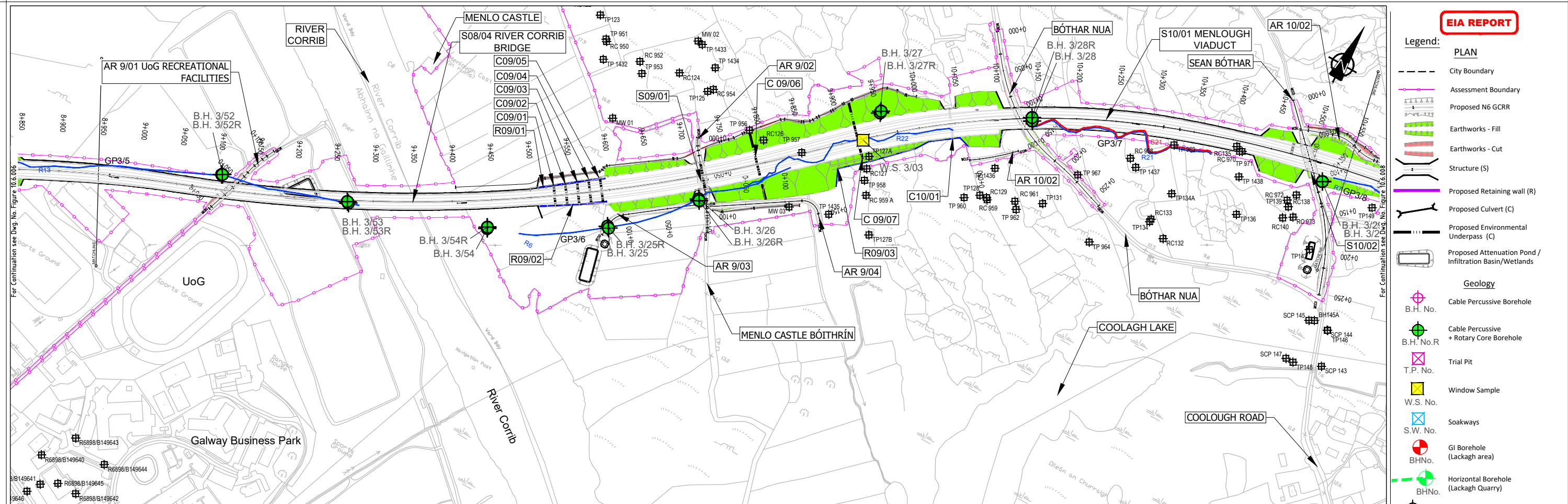
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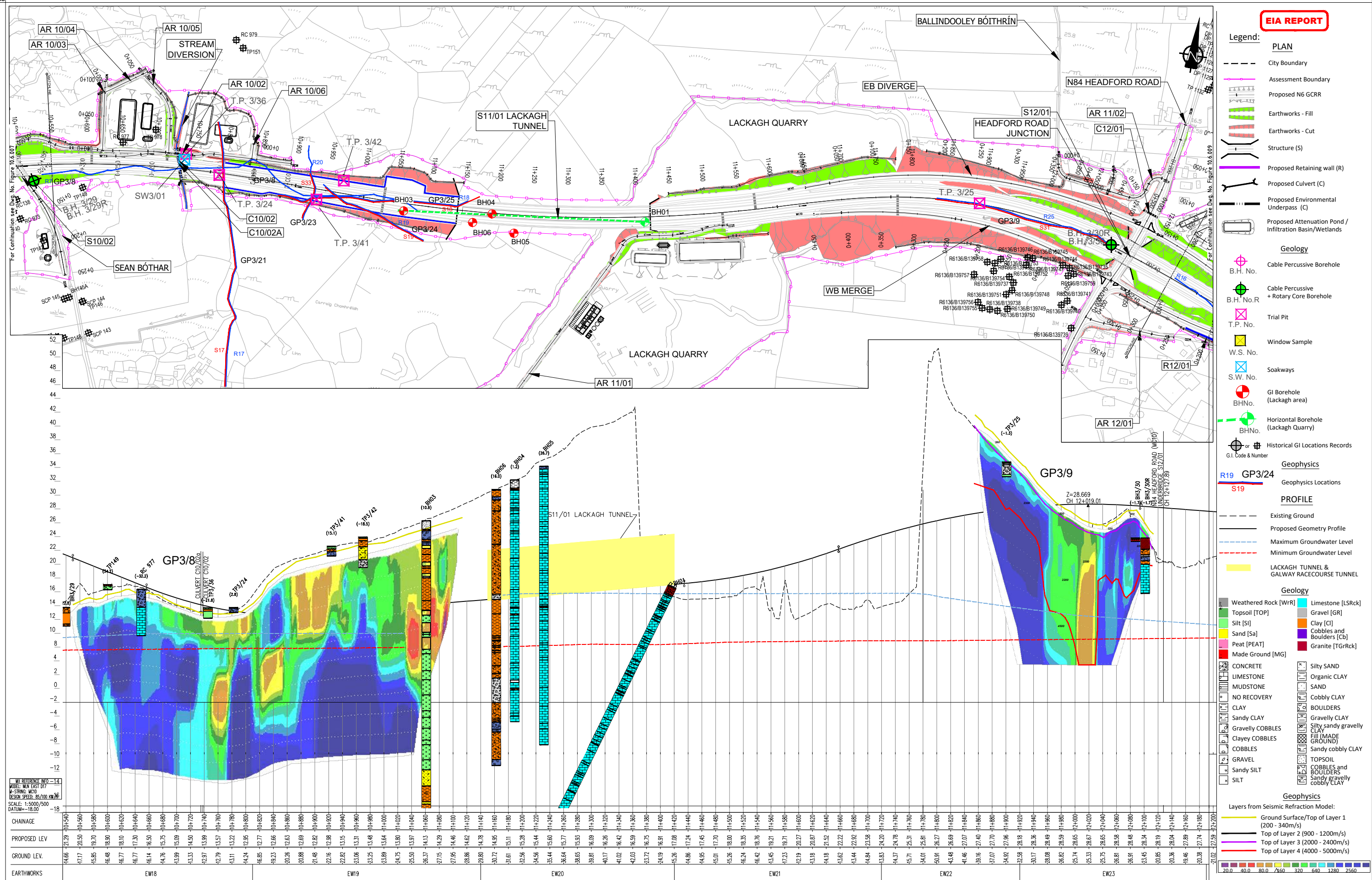
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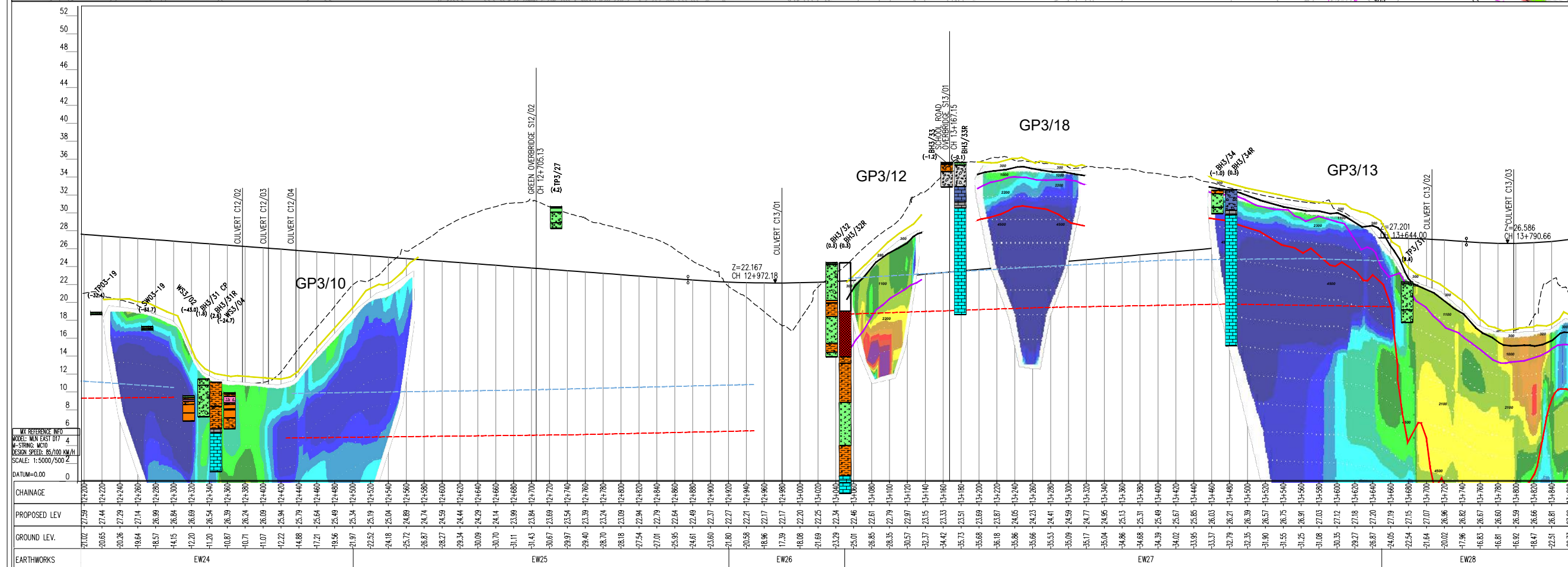
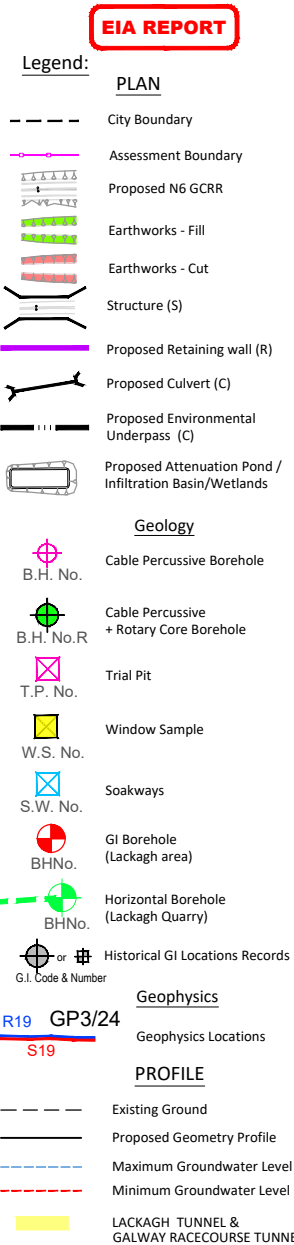
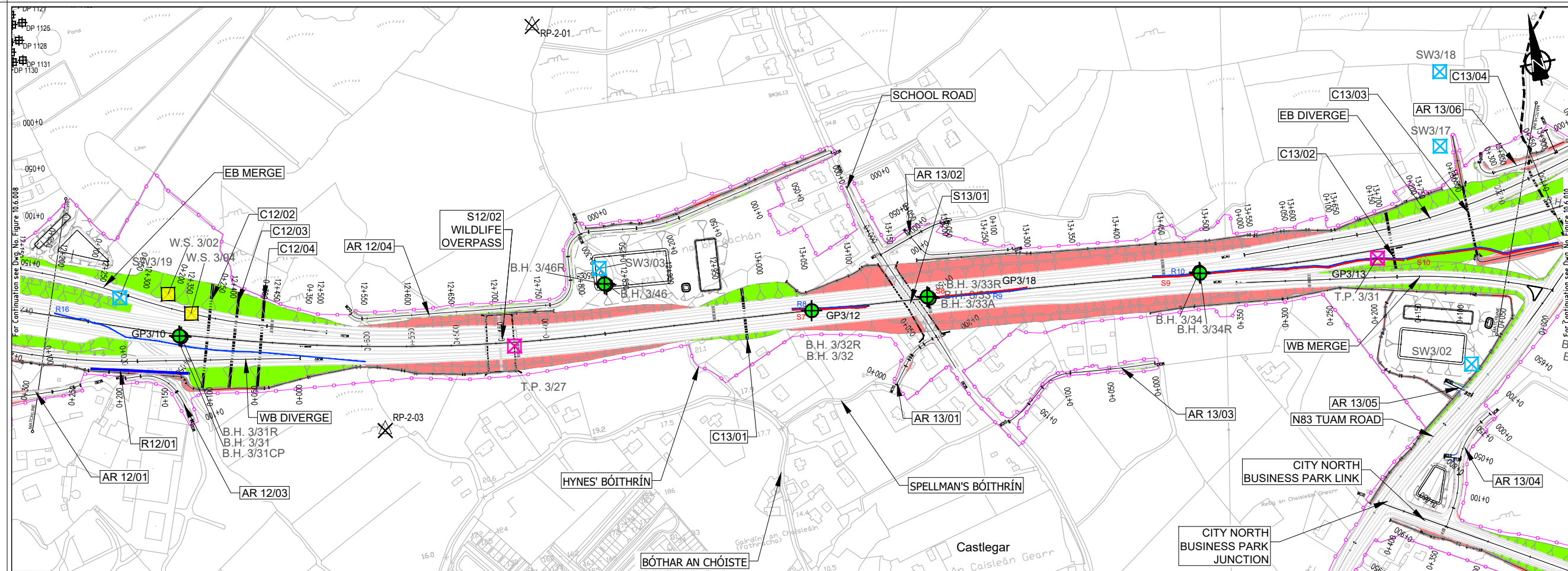
- PLAN**
- City Boundary
 - Assessment Boundary
 - Proposed N6 GCRR
 - Earthworks - Fill
 - Earthworks - Cut
 - Structure (S)
 - Proposed Retaining wall (R)
 - Proposed Culvert (C)
 - Proposed Environmental Underpass (C)
 - Proposed Attenuation Pond / Infiltration Basin/Wetlands
- Geology**
- B.H. No.
 - Cable Percussive Borehole
 - B.H. No.R
 - Cable Percussive + Rotary Core Borehole
 - T.P. No.
 - Window Sample
 - W.S. No.
 - Soakways
 - S.W. No.
 - GI Borehole (Lackagh area)
 - BHNo.
 - Horizontal Borehole (Lackagh Quarry)
 - BHNo.
 - Historical GI Locations Records
- Geophysics**
- R19 GP3/24
 - S19
 - Geophysics Locations
- PROFILE**
- Existing Ground
 - Proposed Geometry Profile
 - Maximum Groundwater Level
 - Minimum Groundwater Level
 - LACKAGH TUNNEL & GALWAY RACECOURSE TUNNEL
- Geology**
- Weathered Rock [WrR]
 - Topsoil [TOP]
 - Silt [Si]
 - Sand [Sa]
 - Peat [PEAT]
 - Made Ground [MG]
 - Limestone [LSRck]
 - Gravel [GR]
 - Clay [Cl]
 - Cobbles and Boulders [Cb]
 - Granite [TGrck]
 - CONCRETE
 - LIMESTONE
 - MUDSTONE
 - NO RECOVERY
 - CLAY
 - Sandy CLAY
 - Gravelly COBBLES
 - CLAYEY COBBLES
 - COBBLES
 - GRAVEL
 - Sandy SILT
 - SILT
 - Silty SAND
 - Organic CLAY
 - SAND
 - Cobbly CLAY
 - BOULDERS
 - Gravelly CLAY
 - Silty sandy gravelly CLAY
 - Fill (MADE GROUND)
 - Sandy cobbly CLAY
 - TOPSOIL
 - COBBLES and BOULDERS
 - Sandy gravelly COBBLY CLAY
- Geophysics**
- Layers from Seismic Refraction Model:
- Ground Surface/Top of Layer 1 (200 - 340m/s)
 - Top of Layer 2 (900 - 1200m/s)
 - Top of Layer 3 (2000 - 2400m/s)
 - Top of Layer 4 (4000 - 5000m/s)
- 20.0 40.0 80.0 160 320 640 1280 2560



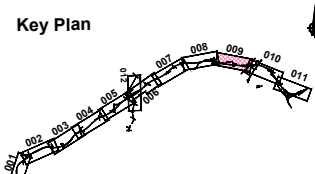
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Job Title
N6 Galway City Ring Road

Scale
H 1:5000 / V 1:500 @ A3

Date
February 2025

I1	28/02/2025	SK	EC	MH
Issue	Date	By	Chkd	Appd

Drawing Title
Hydrogeology Plan & Profile
Mainline Plan/Profile - CH.12+200 to CH.13+850
Sheet 9 of 12

Drawing Status
For Information

Job No
233985

Drawing No
Figure 10.6.009

Issue
11

