

Proposed Scheme Drawings

Site Location Plans

- Drawing Ref. KK1613402-P3-SL-005
- Drawing Ref. KK1613402-P3-SL-006
- Drawing Ref. KK1613402-P3-SL-007

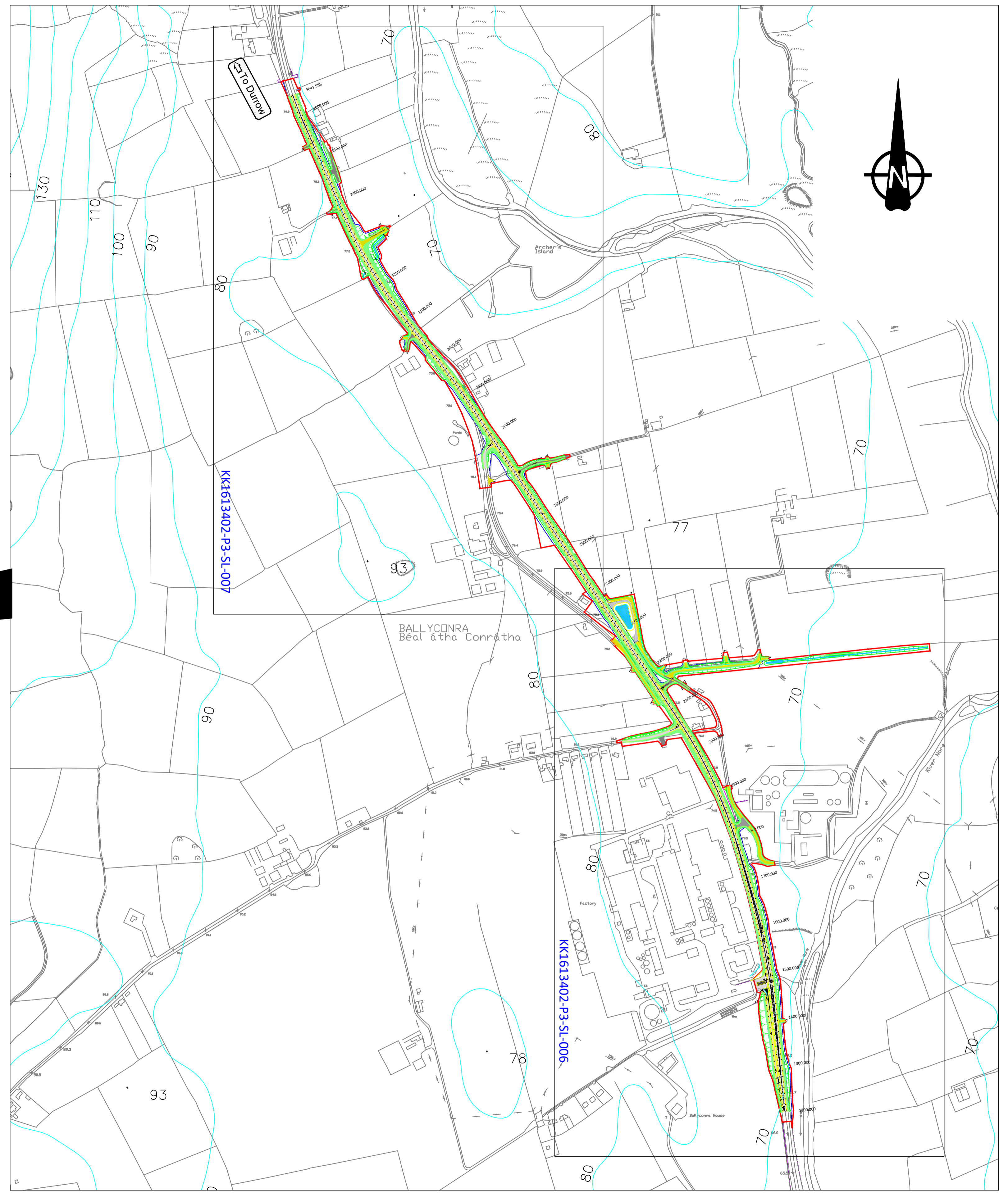
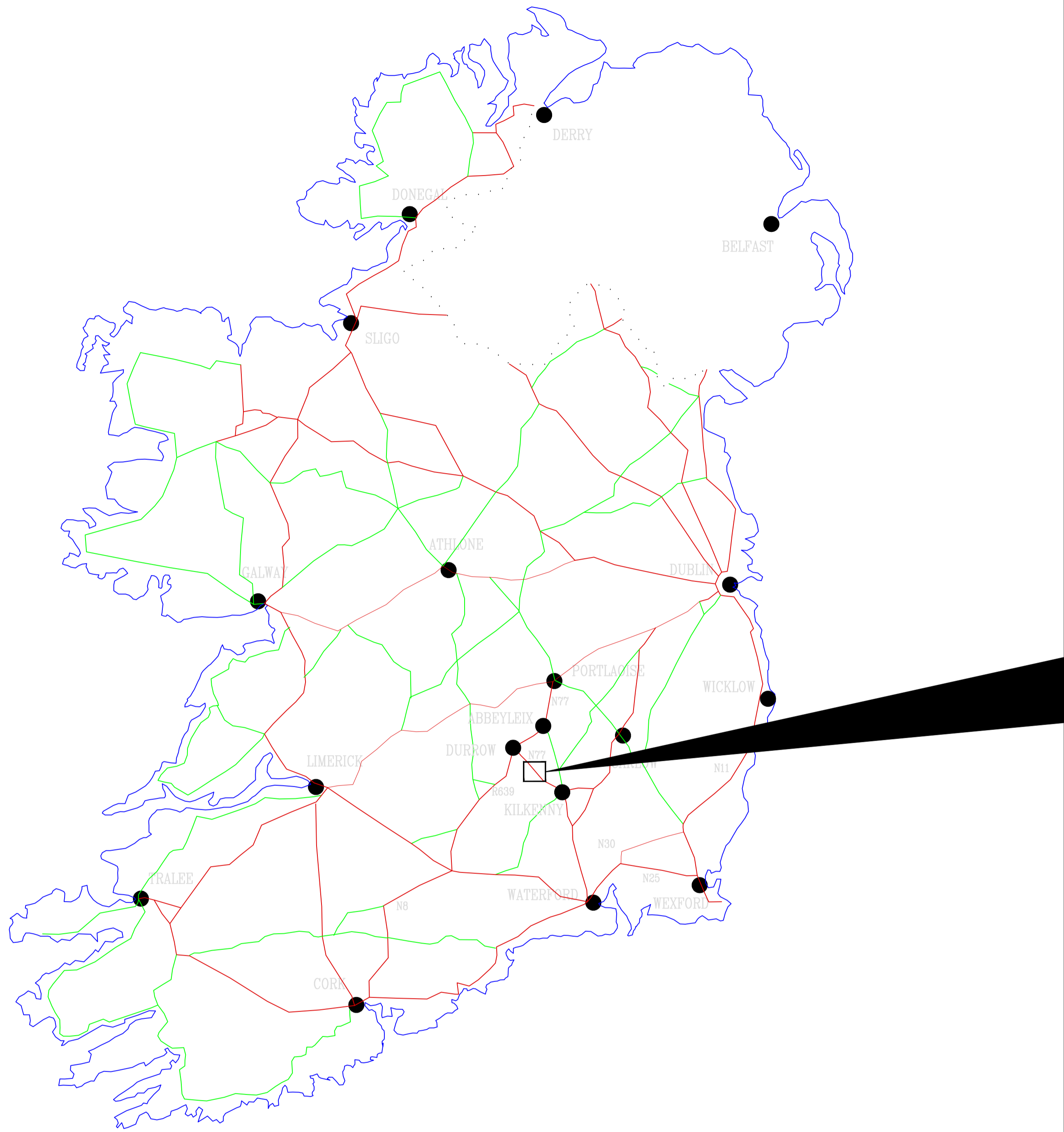
Preliminary Design

- Drawing Ref. KK1613402-P3-GA-001
- Drawing Ref. KK1613402-P3-GA-002
- Drawing Ref. KK1613402-P3-GA-003
- Drawing Ref. KK1613402-P3-GA-004
- Drawing Ref. KK1613402-P3-GA-005
- Drawing Ref. KK1613402-P3-GA-006
- Drawing Ref. KK1613402-P3-GA-007
- Drawing Ref. KK1613402-P3-GA-008

Drainage Layout

- Drawing Ref. KK1613402-P3-DR-001
- Drawing Ref. KK1613402-P3-DR-002
- Drawing Ref. KK1613402-P3-DR-003
- Drawing Ref. KK1613402-P3-DR-004
- Drawing Ref. KK1613402-P3-DR-005
- Drawing Ref. KK1613402-P3-DR-006
- Drawing Ref. KK1613402-P3-DR-007
- Drawing Ref. KK1613402-P3-DR-008
- Drawing Ref. KK1613402-P3-DR-009

Site Location Plans



NOTES:

- 1) Mainline Surface Course shall be Hot Rolled Asphalt Throughout.
- 2) For further General Arrangement Details, Reference Drawings KK1613402-P3-GA-001 to 008 Inclusive.
- 3) For Drainage Details, Reference Drawings KK1613402-P3-DR-001 to 009 Inclusive.
- 4) Cross-section Details are available on Drawings KK1613402-P3-CS-001 to 061 Inclusive.

— Site Extents
— Contour Line

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	19/5/2020	Preliminary Issue	JL	CD	GJ
F2	4/6/2020	Revised further to Client comments	JL	CD	GJ
F3	20/7/2020	Culvert replacement details updated	JL	CD	GJ
F4	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F5	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client

KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design

TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

Tel: (051) 390130
 e-mail: natroads@trdro.com

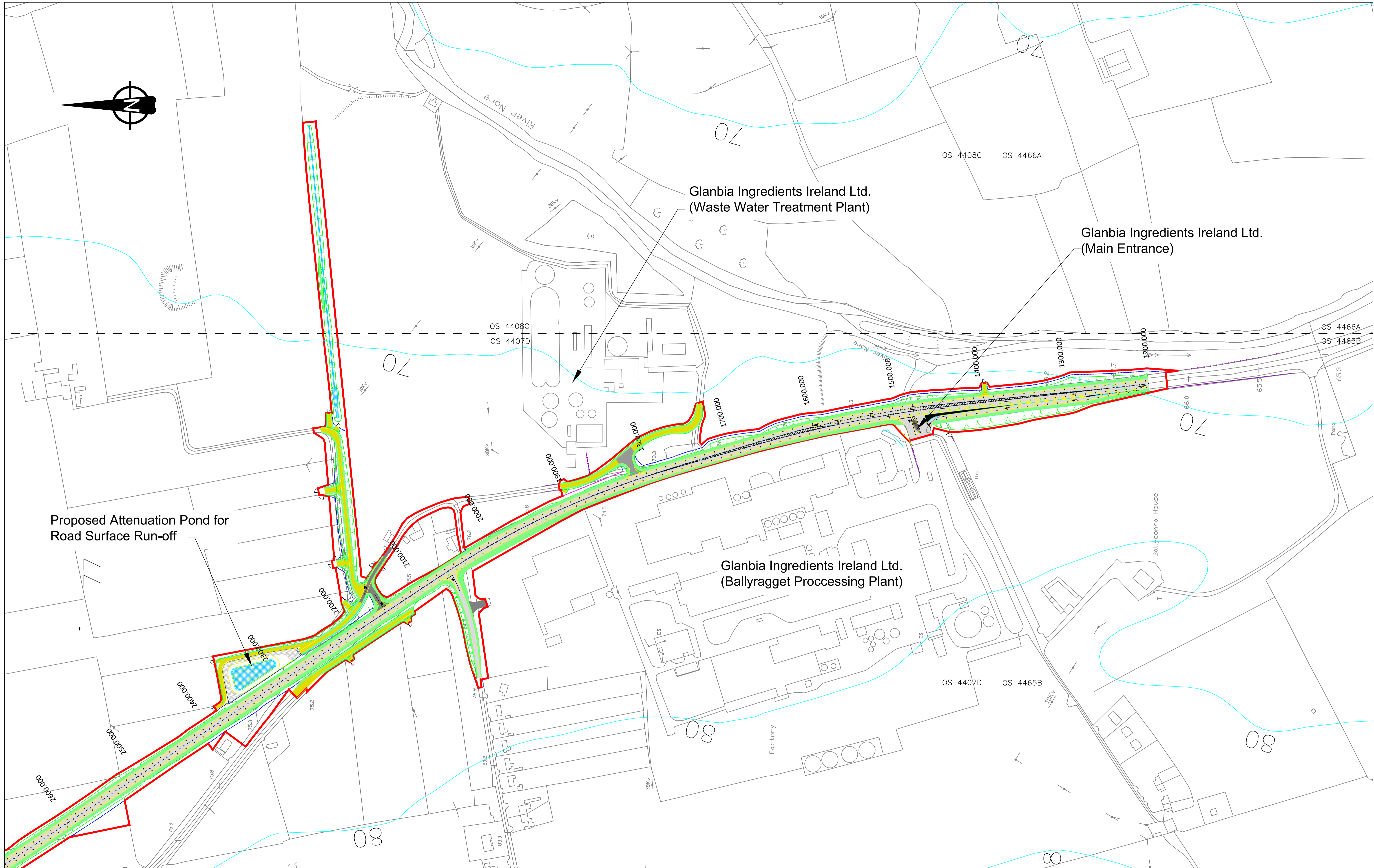
Approved by: G.Jones (GJ)
 Checked by: C. Daly (CD)
 Drawn by: J.Leacy (JL)
 Scale: 1:5000 (A1)
 Rev. Date: 24/10/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Site Location Map Key Plan

Drawing Number: **KK1613402-P3-SL-005**

NRA Project No.: **KK1613402**
 TH Project No.: **TH16031**
 Project Folder No.: **7.6.1.6** Rev.: **F5**
 Pdf Drawing: **KK1613402-P3-SL-005F5**



Proposed Attenuation Pond for Road Surface Run-off

Glanbia Ingredients Ireland Ltd.
(Waste Water Treatment Plant)

Glanbia Ingredients Ireland Ltd.
(Main Entrance)

Glanbia Ingredients Ireland Ltd.
(Ballyragget Processing Plant)

NOTES:
 1) Mainline Surface Course shall be Hot Rolled Asphalt Throughout.
 2) For further General Arrangement Details, Reference Drawings KK1613402-P3-GA-001 to 008 Inclusive.
 3) For Drainage Details, Reference Drawings KK1613402-P3-DR-001 to 009 Inclusive.
 4) Cross-section Details are available on Drawings KK1613402-P3-CS-001 to 061 Inclusive.

— Site Extents
 — Contour Line

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	19/5/2020	Preliminary Issue	JL	CD	GJ
F2	4/6/2020	Revised further to Client comments	JL	CD	GJ
F3	20/7/2020	Culvert replacement details updated	JL	CD	GJ
F4	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F5	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

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 REGIONAL DESIGN OFFICE
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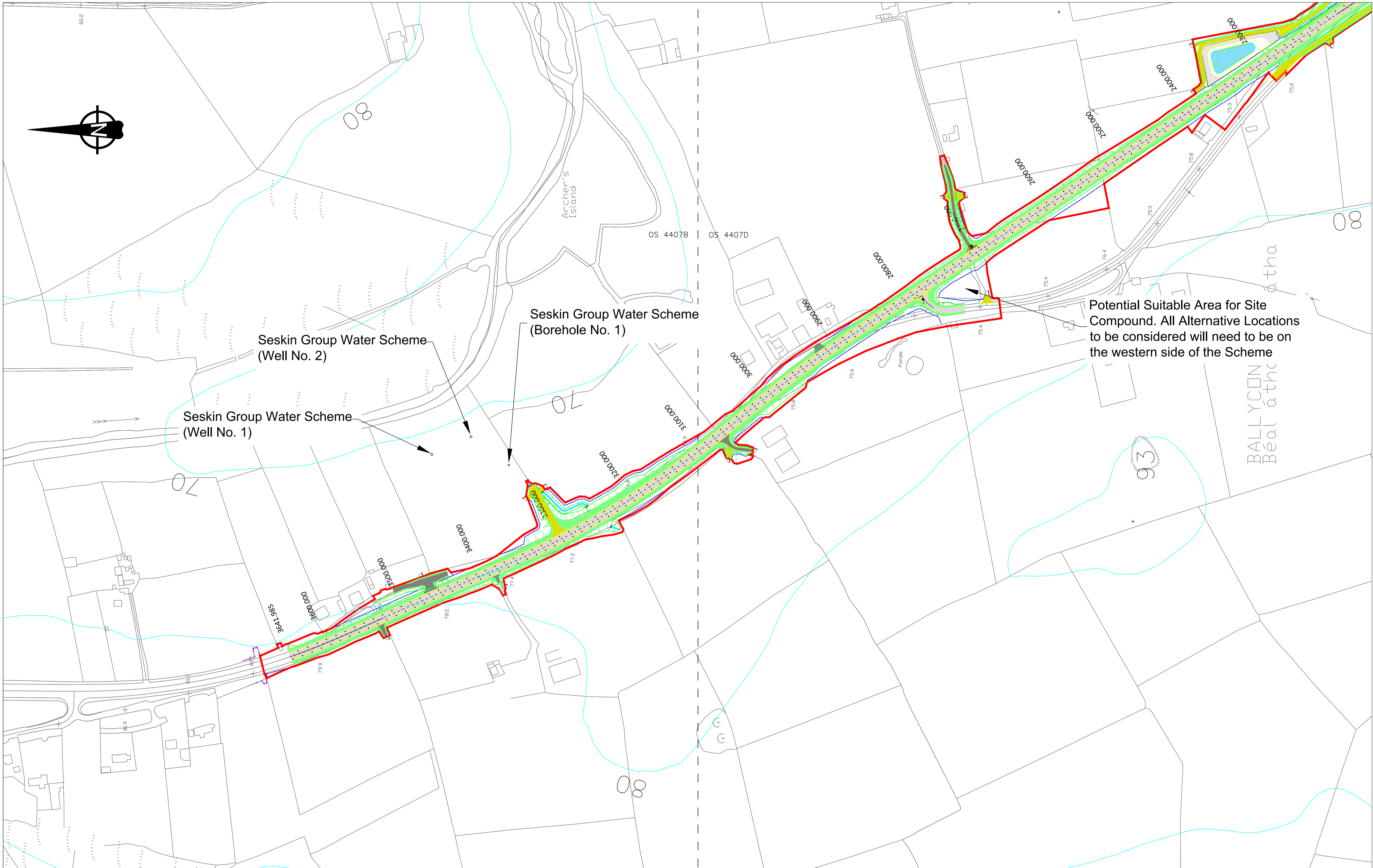
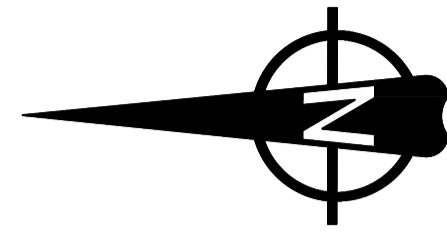
Approved by: G.Jones (GJ)
 Checked by: C.Daly (CD)
 Drawn by: J.Leacy (JL)
 Scale: 1:2000 (A1)
 Rev. Date: 24/10/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Site Location Plan (Ch 1200 to Ch 2400)

Drawing Number: KK1613402-P3-SL-006

NRA Project No.: **KK16/13402**
 TH Project No.: **TH16031**
 Project Folder No.: **7.6.1.6** Rev.: **F5**
 Pdf Drawing: **KK1613402-P3-SL-006F5**



- NOTES:
- 1) Mainline Surface Course shall be Hot Rolled Asphalt Throughout.
 - 2) For further General Arrangement Details, Reference Drawings KK1613402-P3-GA-001 to 008 Inclusive.
 - 3) For Drainage Details, Reference Drawings KK1613402-P3-DR-001 to 009 Inclusive.
 - 4) Cross-section Details are available on Drawings KK1613402-P3-CS-001 to 061 Inclusive.

— Site Extents
 --- Contour Line

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	19/5/2020	Preliminary Issue	JL	CD	GJ
F2	4/6/2020	Revised further to Client comments	JL	CD	GJ
F3	20/7/2020	Culvert replacement details updated	JL	CD	GJ
F4	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F5	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkenyco.ie



Design
TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

Tel: (051) 390130
 e-mail: natroads@thrdo.com



Approved by: G.Jones (GJ)
 Checked by: C. Daly (CD)
 Drawn by: J.Leacy (JL)
 Scale: 1:2000 (A1)
 Rev. Date: 24/10/2020

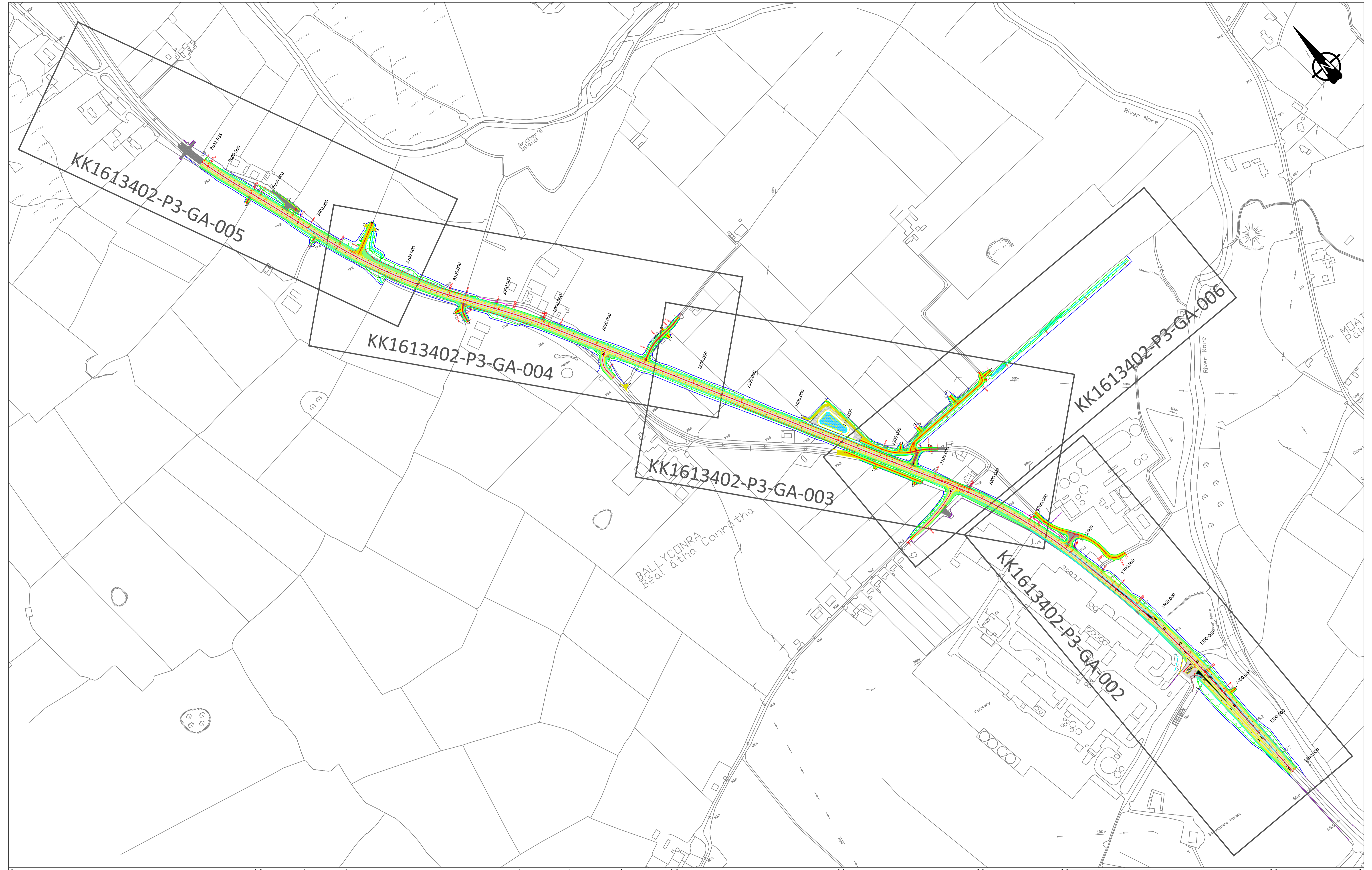
Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Site Location Plan (Ch 2400 to End)

Drawing Number: KK1613402-P3-SL-007

NRA Project No.: **KK1613402**
 TH Project No.: **TH16031**
 Project Folder No.: **7.6.1.6** Rev.: **F5**
 Pdf Drawing: **KK1613402-P3-SL-007F5**

Preliminary Design Drawings



NOTES:

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	24/5/2018	Preliminary Design Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Design Issue	JL	TB	GJ
F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	9/9/2019	Minor changes to Fence Line and Accesses	DR	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised to include Noise Barrier Details	JL	CD	GJ
F7	20/7/2020	Further detailing of Culvert replacement	JL	CD	GJ
F8	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F9	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client

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 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

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TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

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Approved by: G. Jones (GJ)
 Checked by: C. Daly (CD)
 Drawn by: J. Leacy (JL)

Scale: NTS (A1)

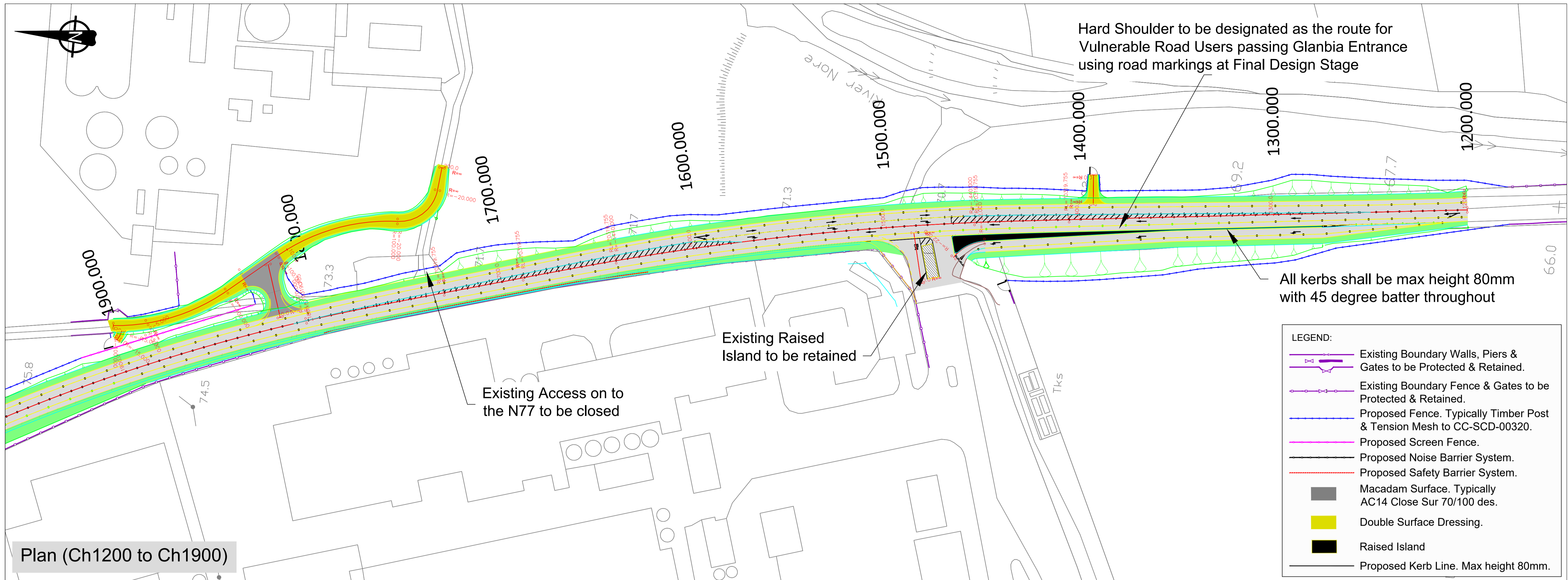
Rev. Date: 24/10/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Preliminary Design - General Arrangement Key Map

Drawing Number: KK1613402-P3-GA-001

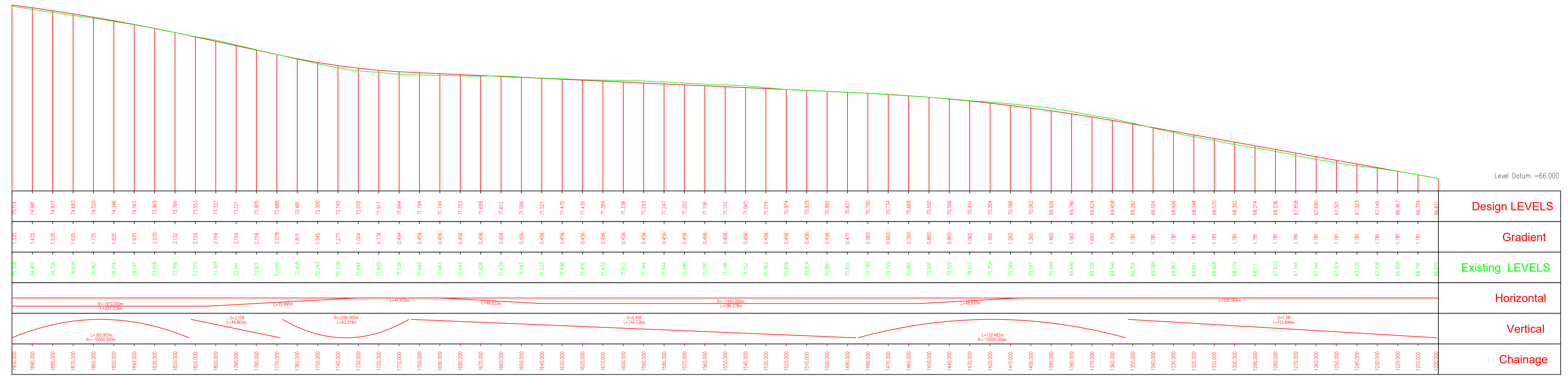
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 TH Project No.: **TH16031**
 Project Folder No.: **7.6.1.6** Rev.: **F9**
 Pdf Drawing: **KK1613402-P3-GA-001F9**



Plan (Ch1200 to Ch1900)

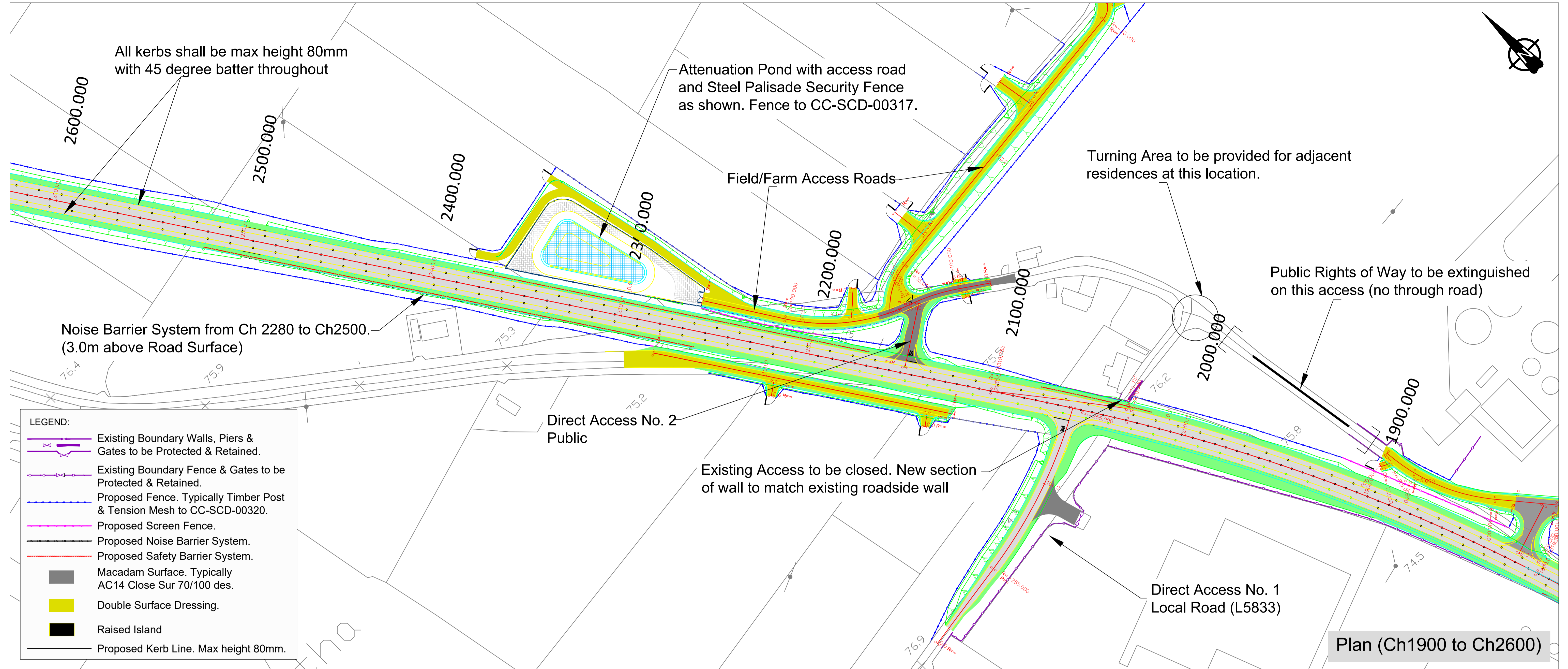
LEGEND:

- Existing Boundary Walls, Piers & Gates to be Protected & Retained.
- Existing Boundary Fence & Gates to be Protected & Retained.
- Proposed Fence. Typically Timber Post & Tension Mesh to CC-SCD-00320.
- Proposed Screen Fence.
- Proposed Noise Barrier System.
- Proposed Safety Barrier System.
- Macadam Surface AC14 Close Sur 70/100 des.
- Double Surface Dressing.
- Raised Island
- Proposed Kerb Line. Max height 80mm.



Long-section along Centreline of Mainline (Ch 1200 to Ch 1900)

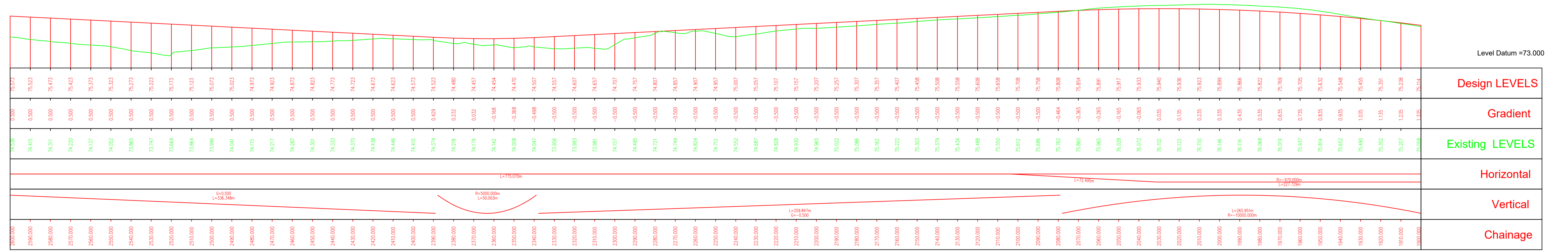
NOTES:	F1	24/5/2018	Preliminary Design Issue	JL	TB	GJ	Client KILKENNY COUNTY COUNCIL COUNTY HALL JOHN STREET KILKENNY	Design TRAMORE HOUSE REGIONAL DESIGN OFFICE TRAMORE CO. WATERFORD	Approved by: G.Jones (GJ)	Project Title: N77 Ballyragget Village to Ballynaslee Road Improvement Scheme	NRA Project No.:
	F2	31/10/2018	Minor changes to Preliminary Design Issue	JL	TB	GJ			Checked by: C.Daly (CD)		TH Project No.:
DO NOT SCALE	F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ	Tel: (056) 7794000 e-mail: secretar@kilkenyco.ie	Tel: (051) 390130 e-mail: natroads@thrd.com	Drawn by: J. Leacy (JL)	Drawing Title: Preliminary Design - General Arrangement (Ch1200 to Ch1900)	Project Folder No.:
	F4	9/9/2019	Minor changes to Fence Line and Accesses	DR	CD	GJ			Scale: Horizontal 1:1000 Vertical 1:100 (A1)		7.6.1.6
	F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ			Rev. Date: 24/10/2020		F8
	F6	4/6/2020	Revised to include Noise Barrier Details	JL	CD	GJ			Drawing Number: KK1613402-P3-GA-002		Rev.:
	F7	25/8/2020	Confirmation of drawing print size	JL	CD	GJ					
	F8	24/10/2020	Minor alterations further to T11 review	JL	CD	GJ					



LEGEND:

- Existing Boundary Walls, Piers & Gates to be Protected & Retained.
- Existing Boundary Fence & Gates to be Protected & Retained.
- Proposed Fence. Typically Timber Post & Tension Mesh to CC-SCD-00320.
- Proposed Screen Fence.
- Proposed Noise Barrier System.
- Proposed Safety Barrier System.
- Macadam Surface. Typically AC14 Close Sur 70/100 des.
- Double Surface Dressing.
- Raised Island
- Proposed Kerb Line. Max height 80mm.

Plan (Ch1900 to Ch2600)



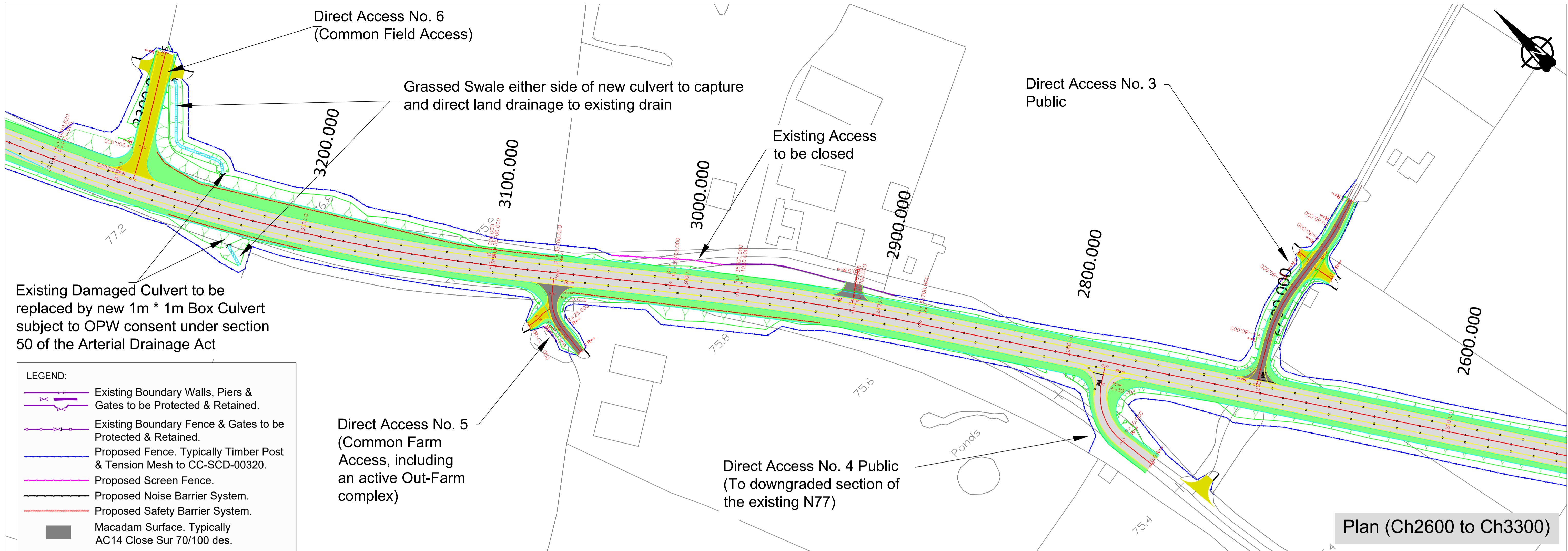
Long-section along Centreline of Mainline (Ch 1900 to Ch 2600)

NOTES:

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	24/5/2018	Preliminary Design Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Design Issue	JL	TB	GJ
F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	9/9/2019	Minor changes to Fence Line and Accesses	DR	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised to include Noise Barrier Details	JL	CD	GJ
F7	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F8	28/8/2020	Further to remodeling for noise, barrier increased to 3m	JL	CD	GJ
F9	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

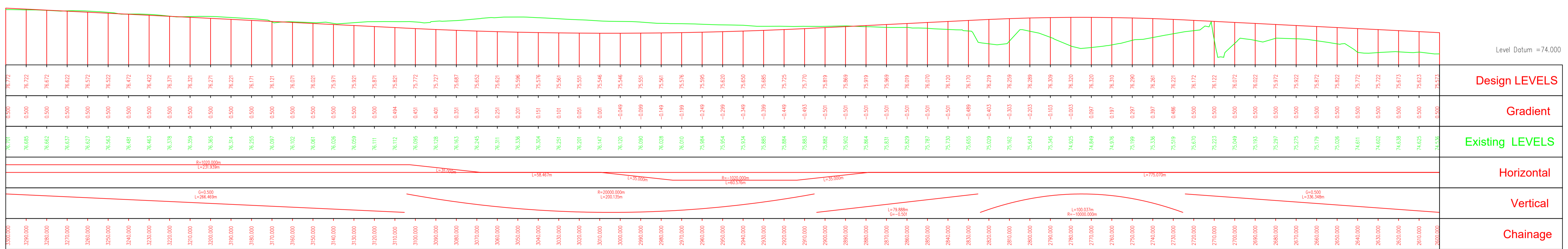
<p>Client</p> <p>KILKENNY COUNTY COUNCIL COUNTY HALL JOHN STREET KILKENNY</p> <p>Tel: (056) 7794000 e-mail: secretar@kilkennycoco.ie</p>		<p>Design</p> <p>TRAMORE HOUSE REGIONAL DESIGN OFFICE TRAMORE CO. WATERFORD</p> <p>Tel: (051) 390130 e-mail: natroads@thrdo.com</p>	<p>Approved by: G.Jones (GJ)</p> <p>Checked by: C.Daly (CD)</p> <p>Drawn by: J.Leacy (JL)</p> <p>Scale: Horizontal 1:1000 Vertical 1:100 (A1)</p> <p>Rev. Date: 24/10/2020</p>	<p>Project Title:</p> <p>N77 Ballyragget Village to Ballynaslee Road Improvement Scheme</p> <p>Drawing Title: Preliminary Design - General Arrangement (Ch1900 to Ch2600)</p> <p>Drawing Number: KK1613402-P3-GA-003</p>	<p>NRA Project No.: KK16/13402</p> <p>TH Project No.: TH16/031</p> <p>Project Folder No.: 7.6.1.6</p> <p>Rev.: F9</p> <p>PDF Drawing: KK1613402-P3-GA-003F9</p>
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LEGEND:

- Existing Boundary Walls, Piers & Gates to be Protected & Retained.
- Existing Boundary Fence & Gates to be Protected & Retained.
- Proposed Fence. Typically Timber Post & Tension Mesh to CC-SCD-00320.
- Proposed Screen Fence.
- Proposed Noise Barrier System.
- Proposed Safety Barrier System.
- Macadam Surface. Typically AC14 Close Sur 70/100 des.
- Double Surface Dressing.
- Raised Island
- Proposed Kerb Line. Max height 80mm.

Plan (Ch2600 to Ch3300)



Long-section along Centreline of Mainline (Ch 2600 to Ch 3300)

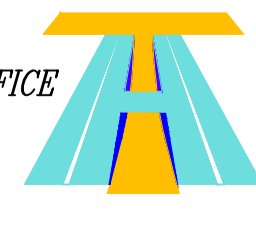
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Revision	Date	Description	Drawn by	Checked by	Approved by
F1	24/5/2018	Preliminary Design Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Design Issue	JL	TB	GJ
F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	9/9/2019	Minor changes to Fence Line and Accesses	DR	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised to include Noise Barrier Details	JL	CD	GJ
F7	20/7/2020	Further detailing of Culvert replacement	JL	CD	GJ
F8	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F9	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY



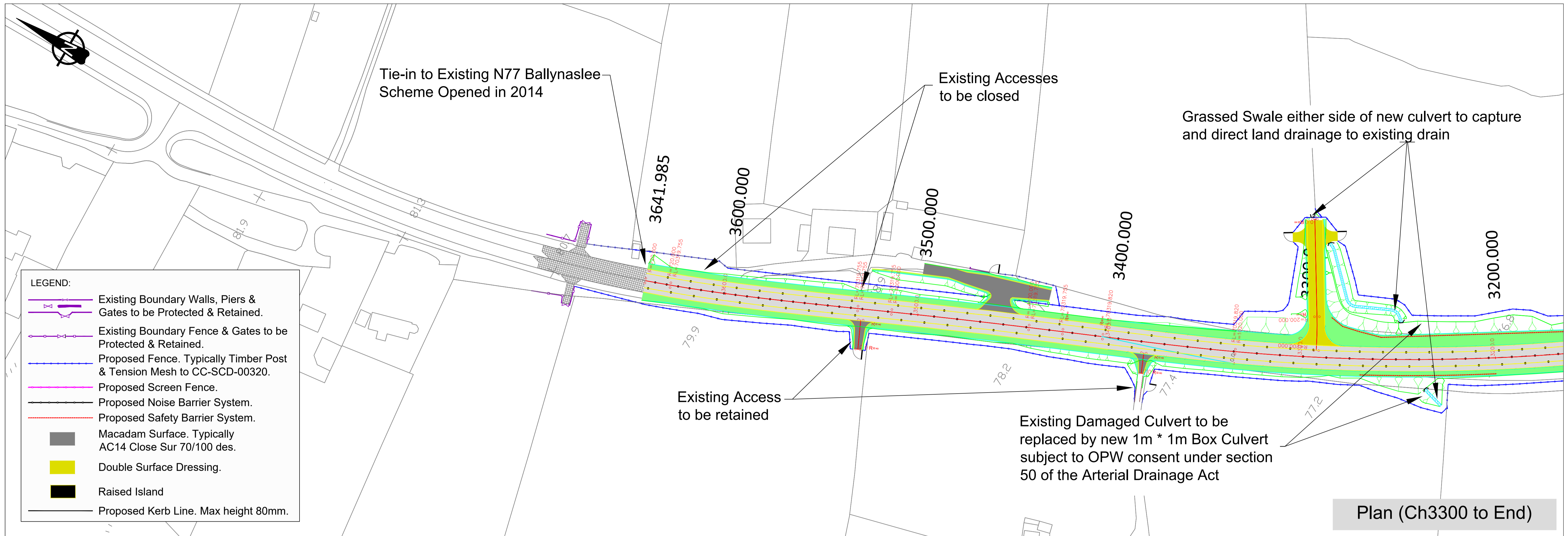
Design
TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD



Approved by: G.Jones (GJ)
 Checked by: C. Daly (CD)
 Drawn by: J. Leacy (JL)
 Scale:
 Horizontal 1:1000
 Vertical 1:100 (A1)
 Rev. Date:
 24/10/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme
 Drawing Title:
Preliminary Design - General Arrangement (Ch2600 to Ch3300)
 Drawing Number: KK1613402-P3-GA-004

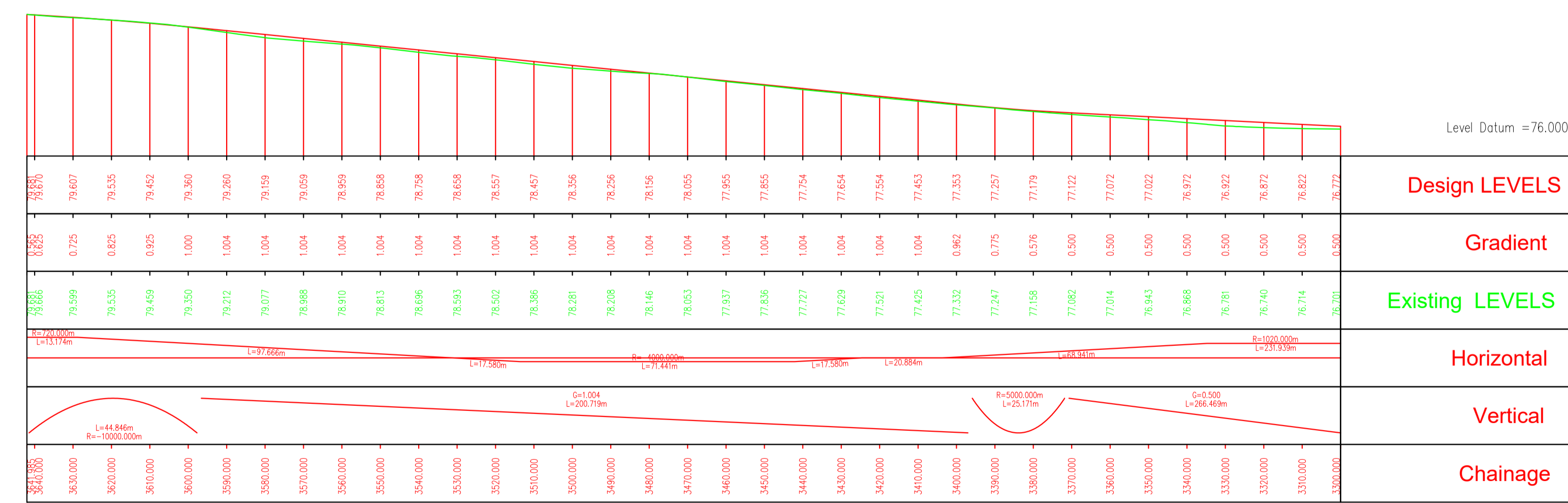
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KK1613402
 TH Project No.:
TH161031
 Project Folder No.:
7.6.1.6
 Rev.:
F9
 Pdf Drawing:
 KK1613402-P3-GA-004F9



LEGEND:

- Existing Boundary Walls, Piers & Gates to be Protected & Retained.
- Existing Boundary Fence & Gates to be Protected & Retained.
- Proposed Fence. Typically Timber Post & Tension Mesh to CC-SCD-00320.
- Proposed Screen Fence.
- Proposed Noise Barrier System.
- Proposed Safety Barrier System.
- Macadam Surface. Typically AC14 Close Sur 70/100 des.
- Double Surface Dressing.
- Raised Island
- Proposed Kerb Line. Max height 80mm.

Plan (Ch3300 to End)



Long-section along Centreline of Mainline (Ch 3300 to End)

NOTES:

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	24/5/2018	Preliminary Design Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Design Issue	JL	TB	GJ
F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	9/9/2019	Minor changes to Fence Line and Accesses	DR	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised to include Noise Barrier Details	JL	CD	GJ
F7	20/7/2020	Further detailing of Culvert replacement	JL	CD	GJ
F8	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F9	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client

KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
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Tel: (056) 7794000
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TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
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Approved by: G.Jones (GJ)
 Checked by: C.Daly (CD)
 Drawn by: J.Leacy (JL)

Scale:
 Horizontal 1:1000
 Vertical 1:100 (A1)

Rev. Date:
 24/10/2020

Project Title:
 N77 Ballyragget Village to Ballynaslee
 Road Improvement Scheme

Drawing Title:
 Preliminary Design - General
 Arrangement (Ch3300 to End)

Drawing Number: KK1613402-P3-GA-005

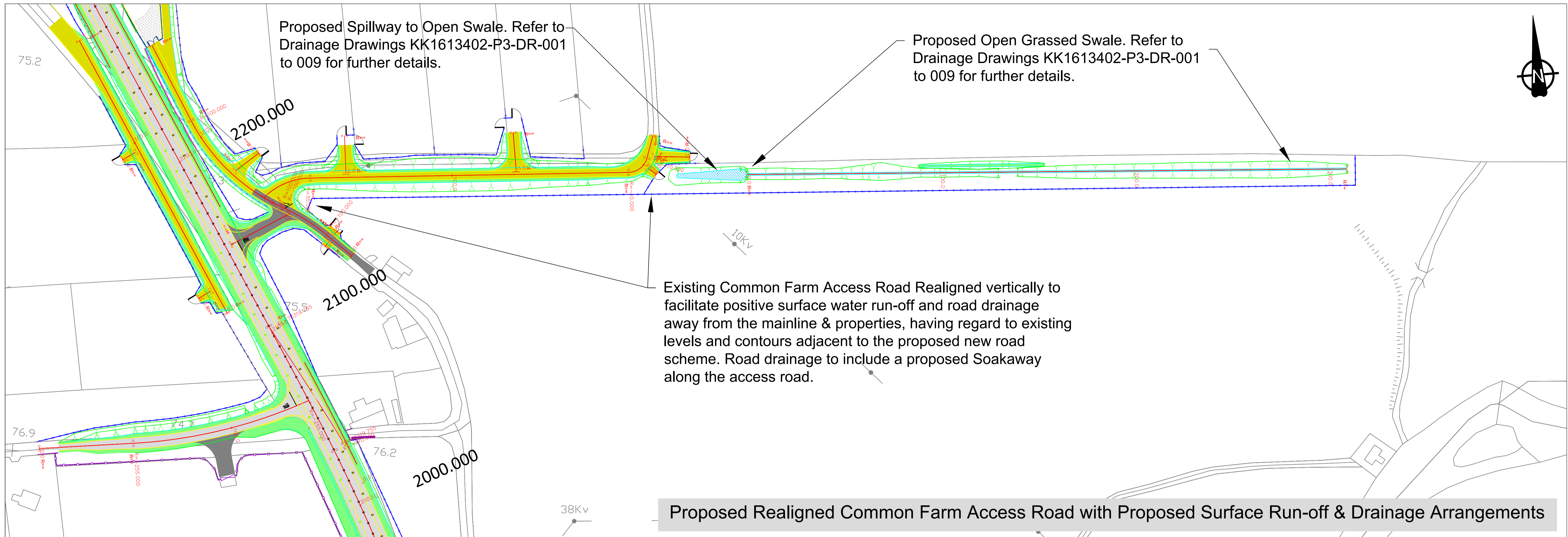
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 KK16/13402

TH Project No.:
 TH16/031

Project Folder No.:
 7.6.1.6

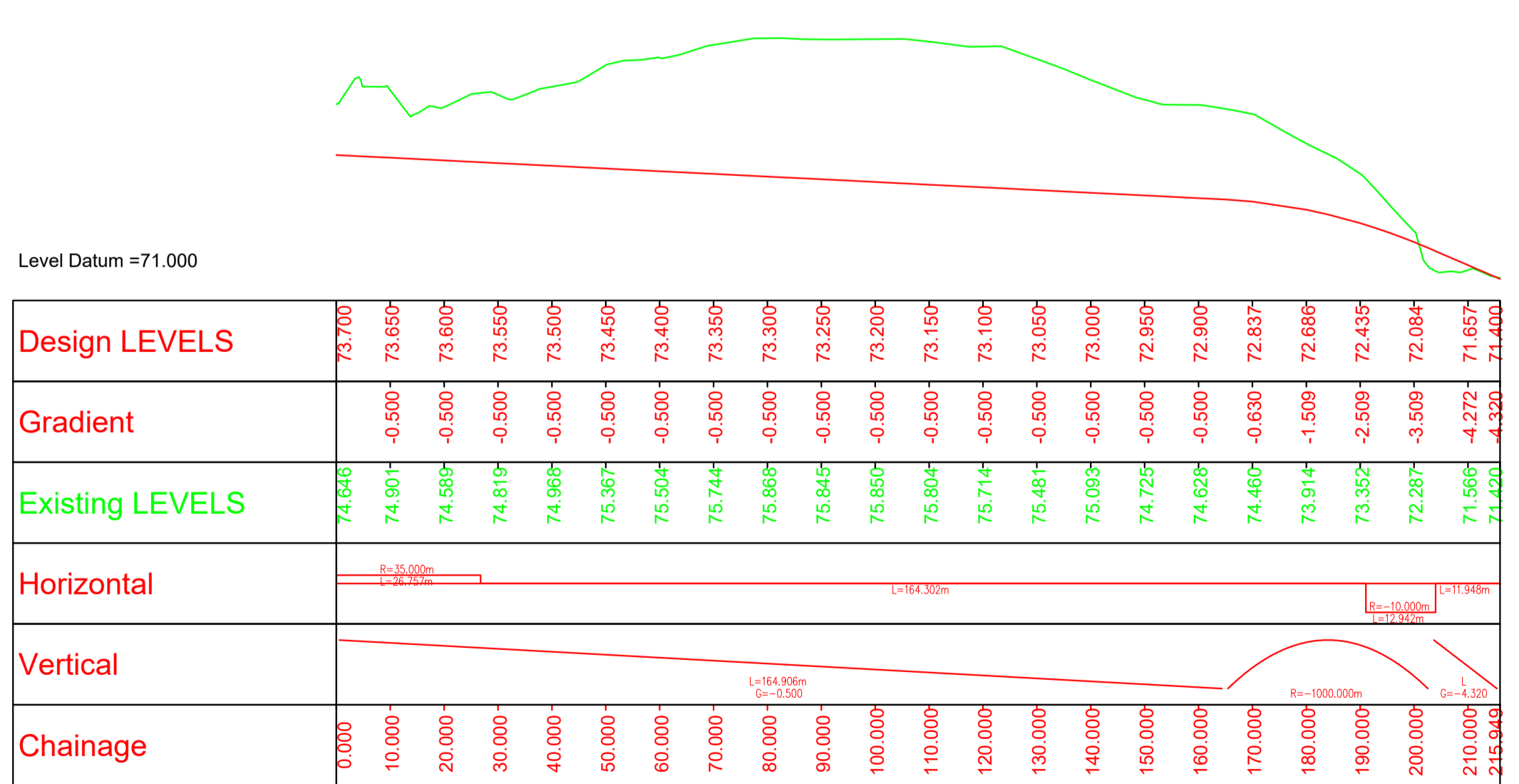
Rev.:
 F9

File Drawing:
 KK1613402-P3-GA-005F9



Proposed Realigned Common Farm Access Road with Proposed Surface Run-off & Drainage Arrangements

- LEGEND:**
- Existing Boundary Walls, Piers & Gates to be Protected & Retained.
 - Existing Boundary Fence & Gates to be Protected & Retained.
 - Proposed Fence. Typically Timber Post & Tension Mesh to CC-SCD-00320.
 - Proposed Screen Fence.
 - Proposed Noise Barrier System.
 - Proposed Safety Barrier System.
 - Macadam Surface. Typically AC14 Close Sur 70/100 des.
 - Double Surface Dressing.
 - Raised Island
 - Proposed Kerb Line. Max height 80mm.



Long-section along Centreline of the Proposed Realigned Common Farm Access Road

NOTES:

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	24/5/2018	Preliminary Design Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Design Issue	JL	TB	GJ
F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	9/9/2019	Minor changes to Fence Line and Accesses	DR	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised to include Noise Barrier Details	JL	CD	GJ
F7	23/9/2020	Confirmation of drawing print size	JL	CD	GJ
F8	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client

KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design

TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

Tel: (051) 390130
 e-mail: natroads@thrd.com

Approved by: G.Jones (GJ)
 Checked by: C.Daly (CD)
 Drawn by: J.Leacy (JL)

Scale:
 Horizontal 1:1000
 Vertical 1:100 (A1)

Rev. Date:
 24/10/2020

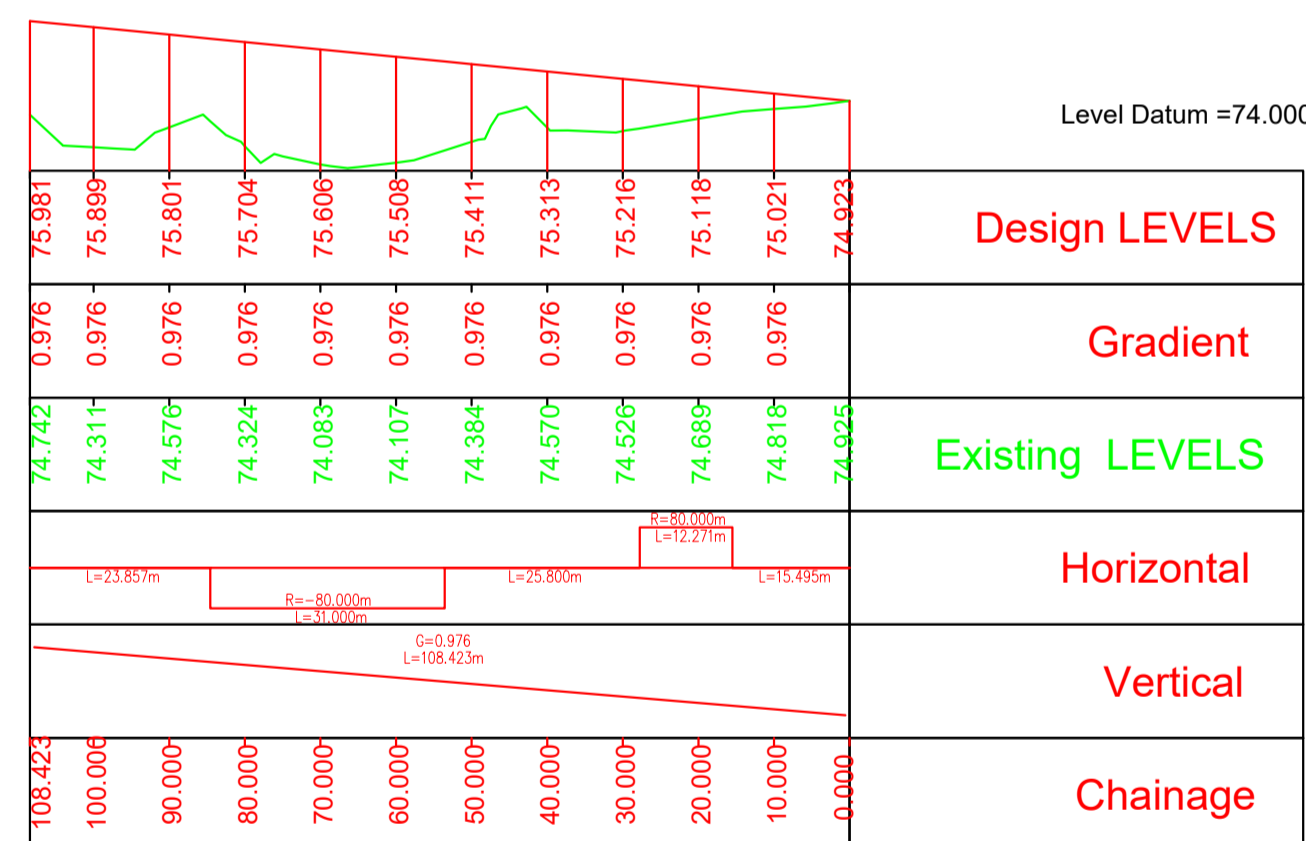
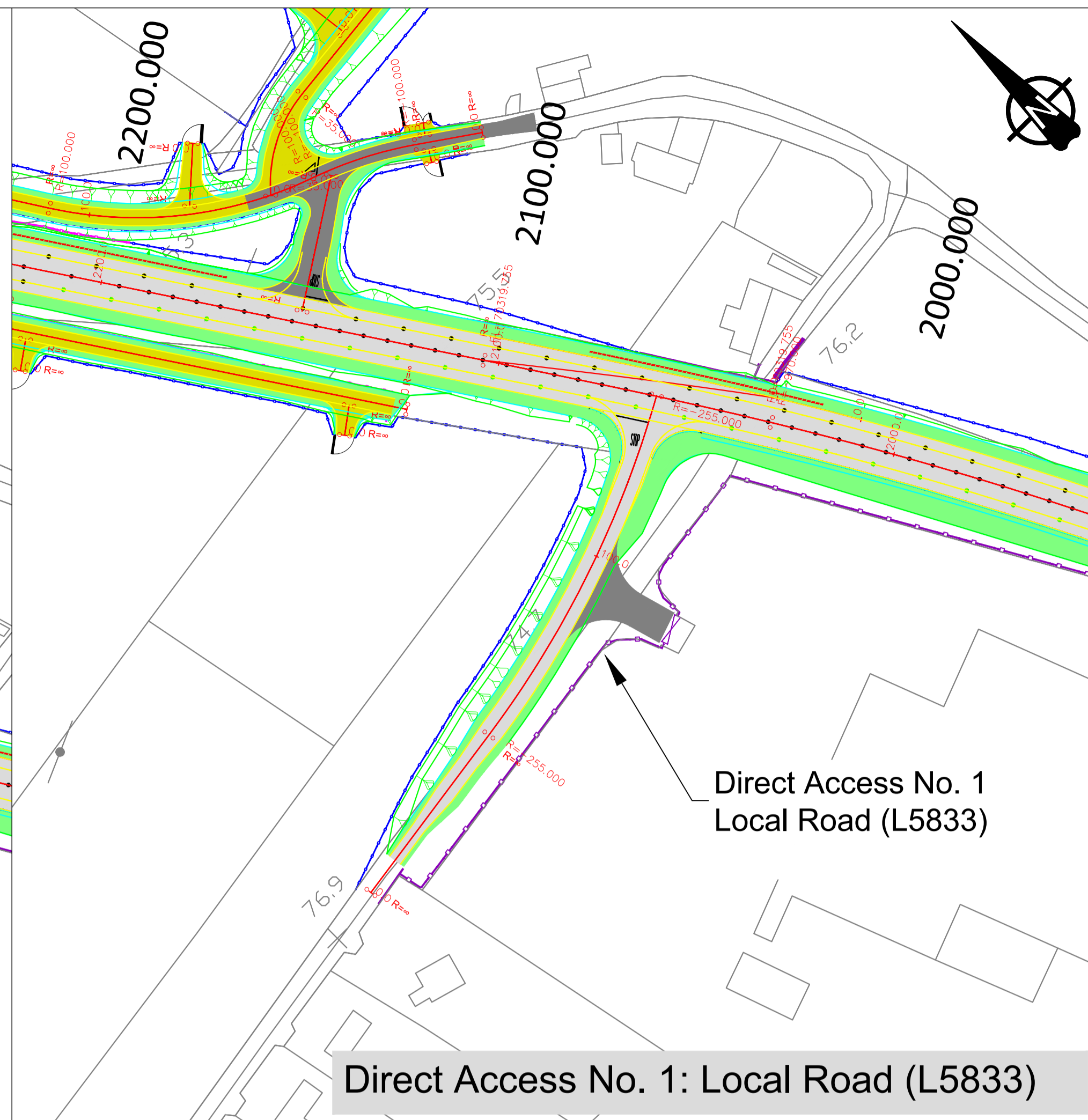
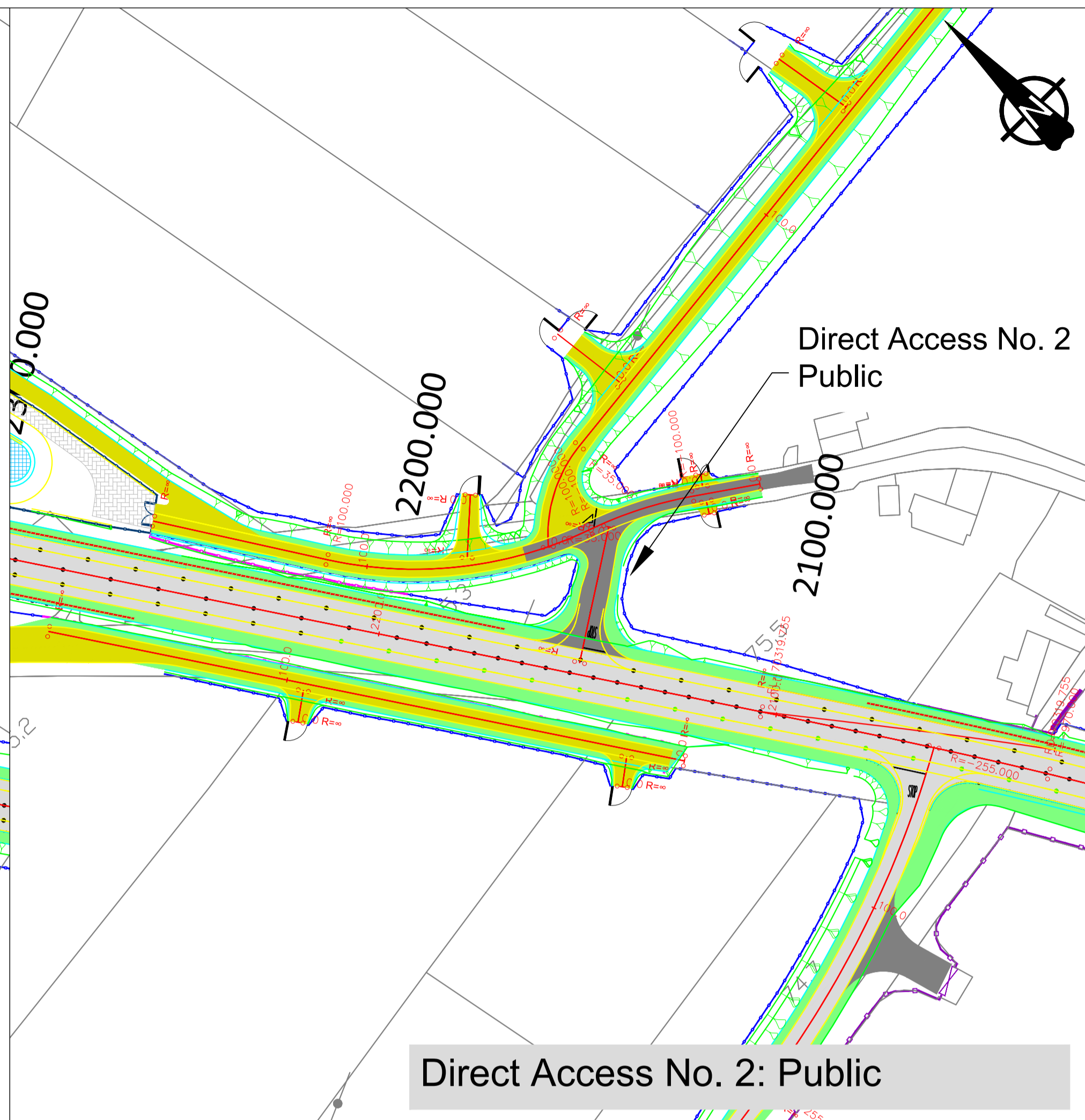
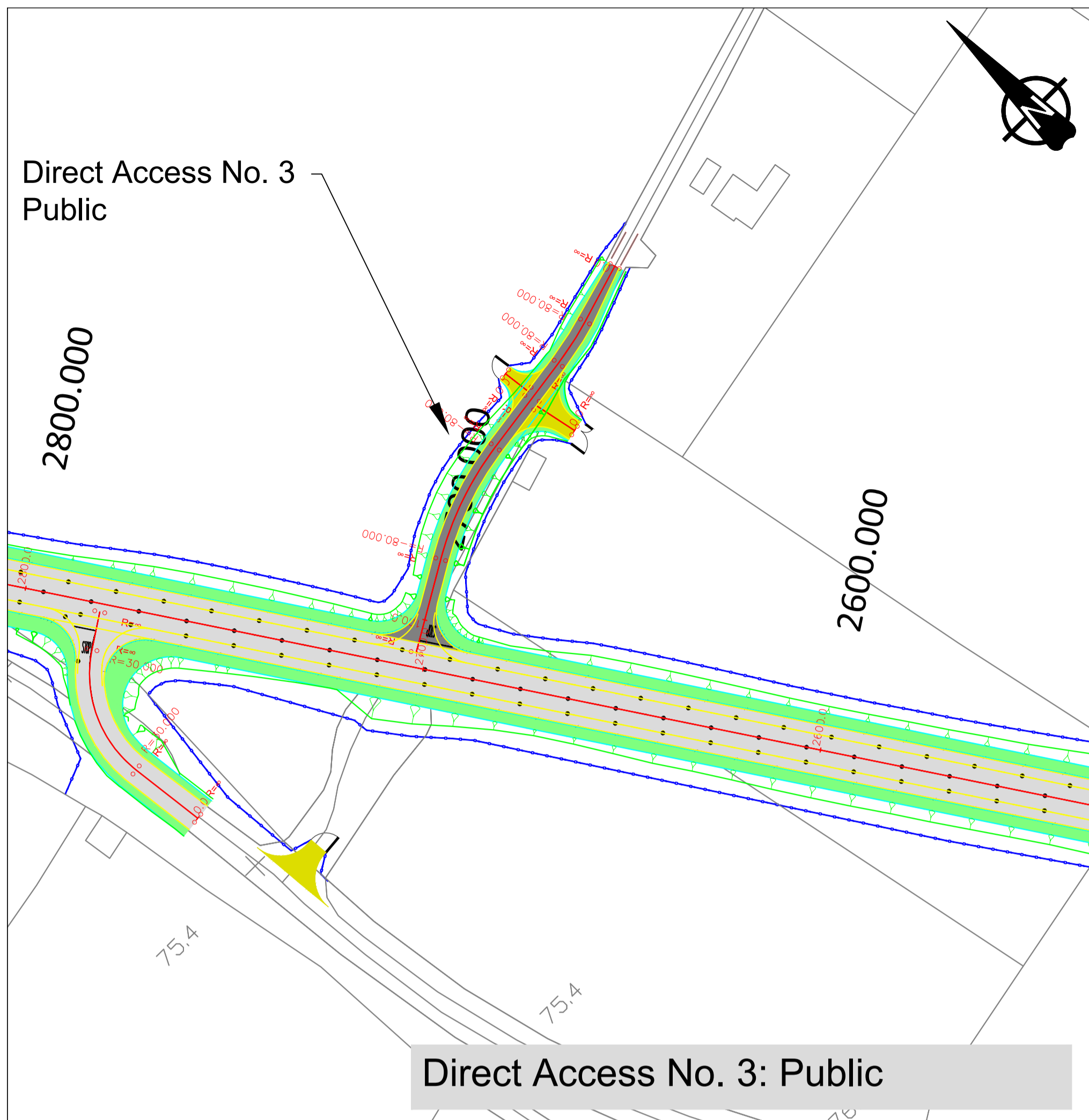
Project Title:
 N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
 Preliminary Design - Proposed Realigned Farm Access & Open Drain Arrangements

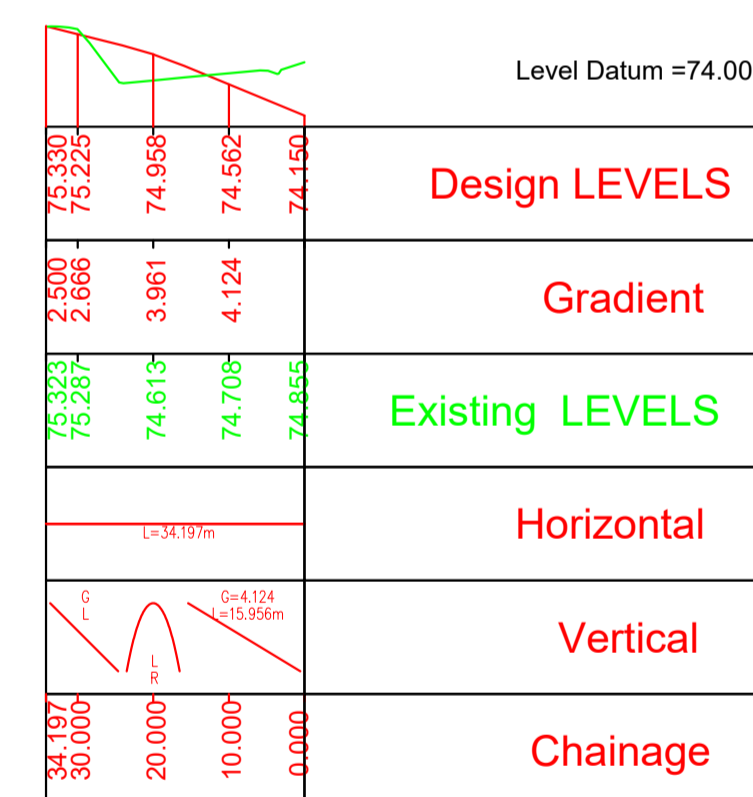
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NRA Project No.: KK1613402
 TH Project No.: TH161031
 Project Folder No.: 7.6.1.6
 Rev.: F8

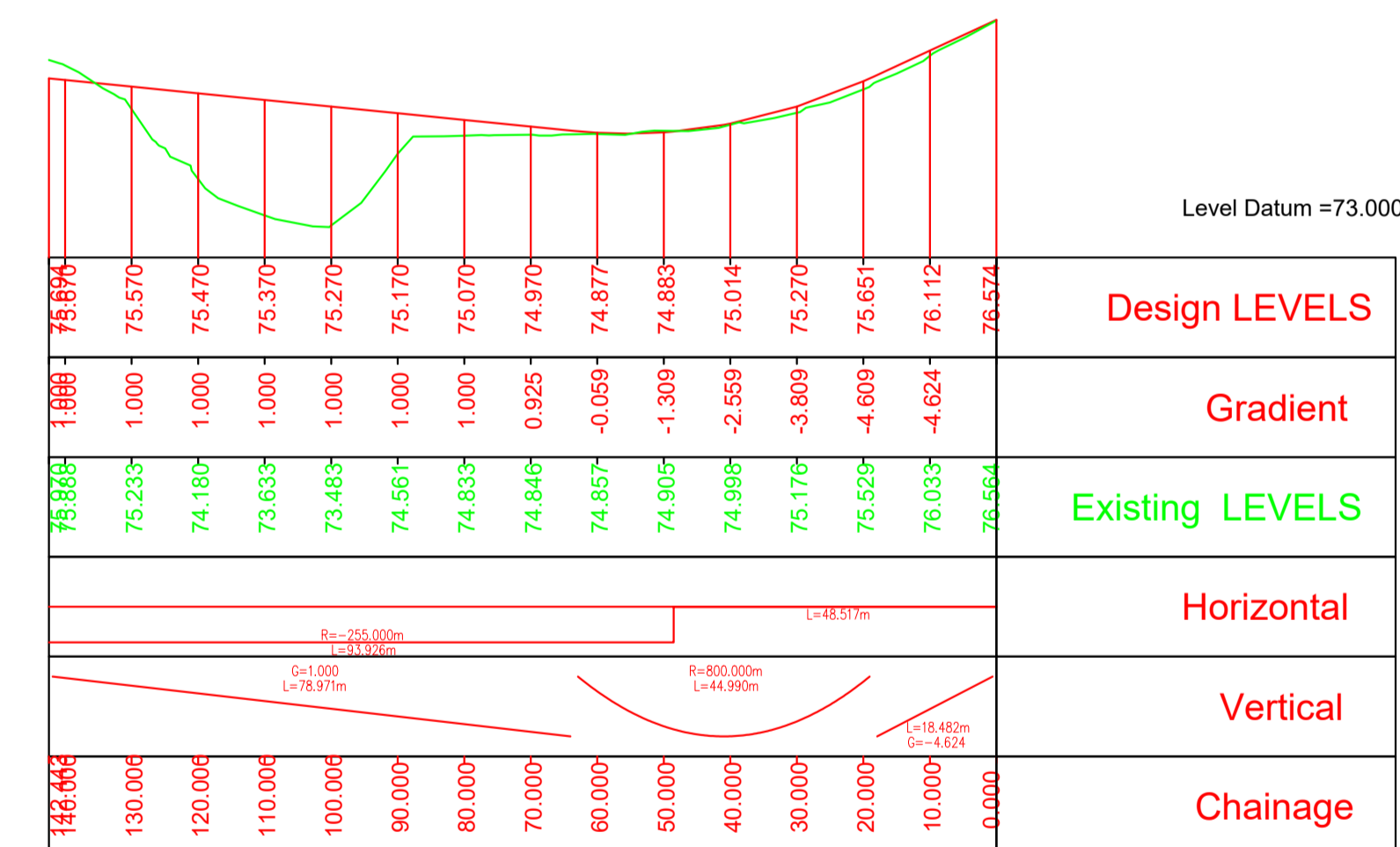
File Drawing: KK1613402-P3-GA-006F8



Long-section along Centreline of Direct Access No. 3 Public



Long-section along Centreline of Direct Access No. 2 Public



Long-section along Centreline of Direct Access No. 1 Local Road (L5833)

- LEGEND:
- Existing Boundary Walls, Piers & Gates to be Protected & Retained.
 - Existing Boundary Fence & Gates to be Protected & Retained.
 - Proposed Fence. Typically Timber Post & Tension Mesh to CC-SCD-00320.
 - Proposed Screen Fence.
 - Proposed Safety Barrier System.
 - Macadam Surface. Typically AC14 Close Sur 70/100 des.
 - Double Surface Dressing.
 - Proposed Kerb Line.
 - Proposed Noise Barrier System.

NOTES:

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	24/5/2018	Preliminary Design Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Design Issue	JL	CD	GJ
F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	9/9/2019	Minor changes to Fence Line and Accesses	DR	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised to include Noise Barrier Details	JL	CD	GJ
F7	20/7/2020	Further detailing of Culvert replacement	JL	CD	GJ
F8	25/8/2020	Confirmation of drawing print size	JL	CD	GJ
F9	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client

KILKENNY COUNTY COUNCIL
COUNTY HALL
JOHN STREET
KILKENNY

Tel: (056) 7794000
e-mail: secretar@kilkennycoco.ie

Design

TRAMORE HOUSE
REGIONAL DESIGN OFFICE
TRAMORE
CO. WATERFORD

Tel: (051) 390130
e-mail: natroads@thrdco.com

Approved by: G.Jones (GJ)
Checked by: C.Daly (CD)
Drawn by: J. Leacy (JL)

Scale:
Horizontal 1:1000
Vertical 1:100 (A1)

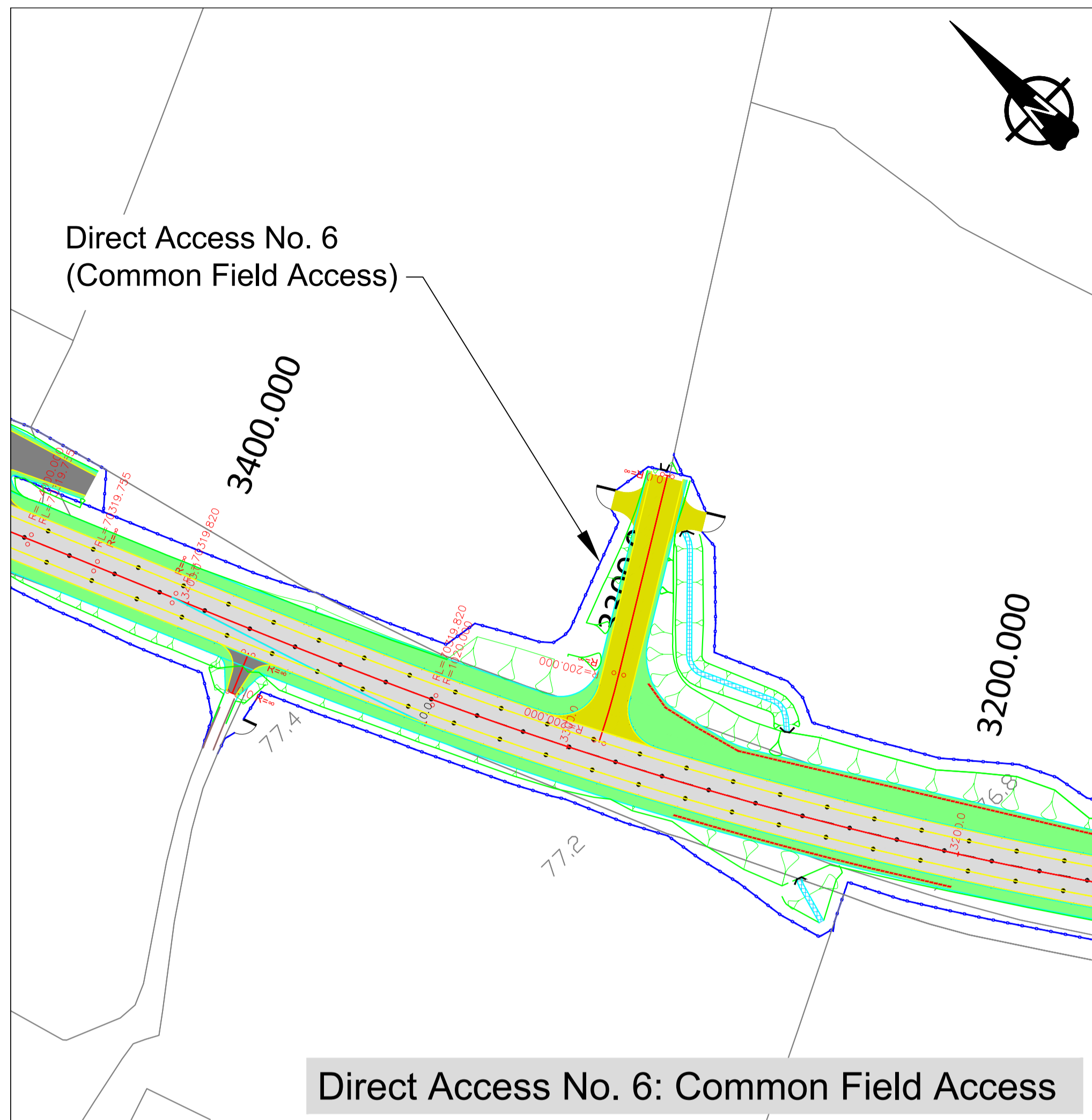
Rev. Date:
24/10/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

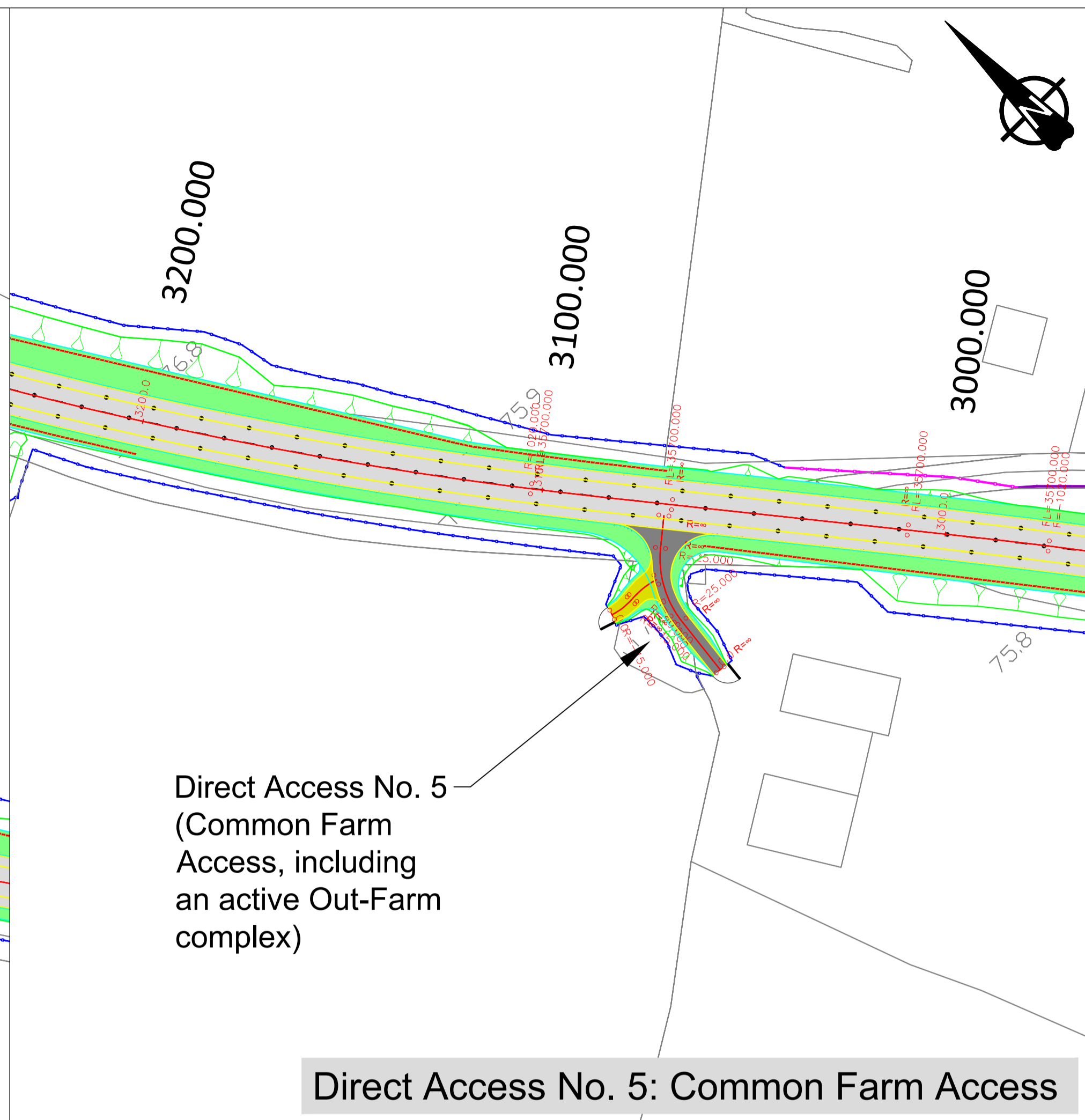
Drawing Title:
Preliminary Design - General Arrangement of Proposed Direct Accesses (Sheet 1 of 2)

Drawing Number: KK1613402-P3-GA-007

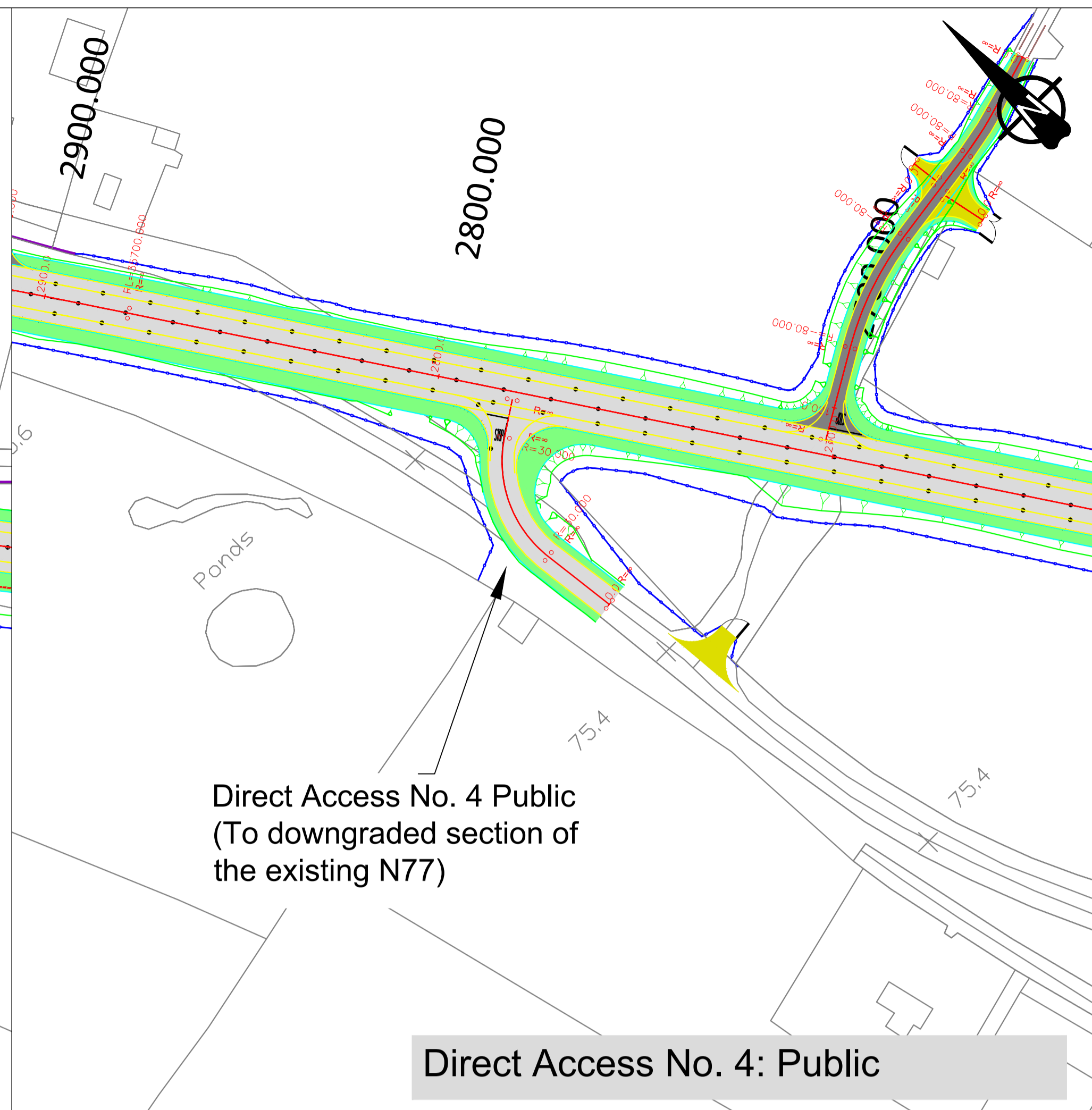
NRA Project No.: KK161/13402
TH Project No.: TH/16/031
Project Folder No.: 7.6.1.6
Rev.: F9



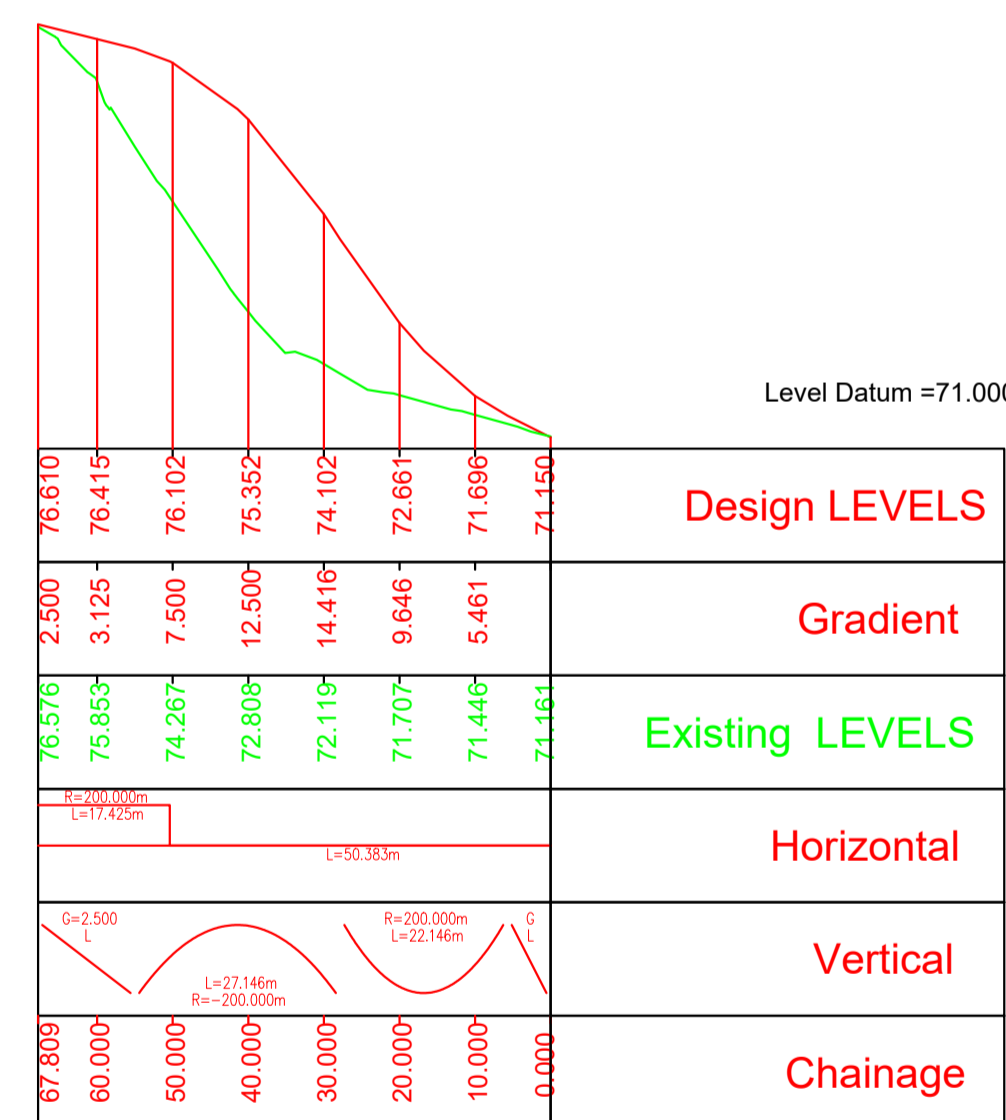
Direct Access No. 6: Common Field Access



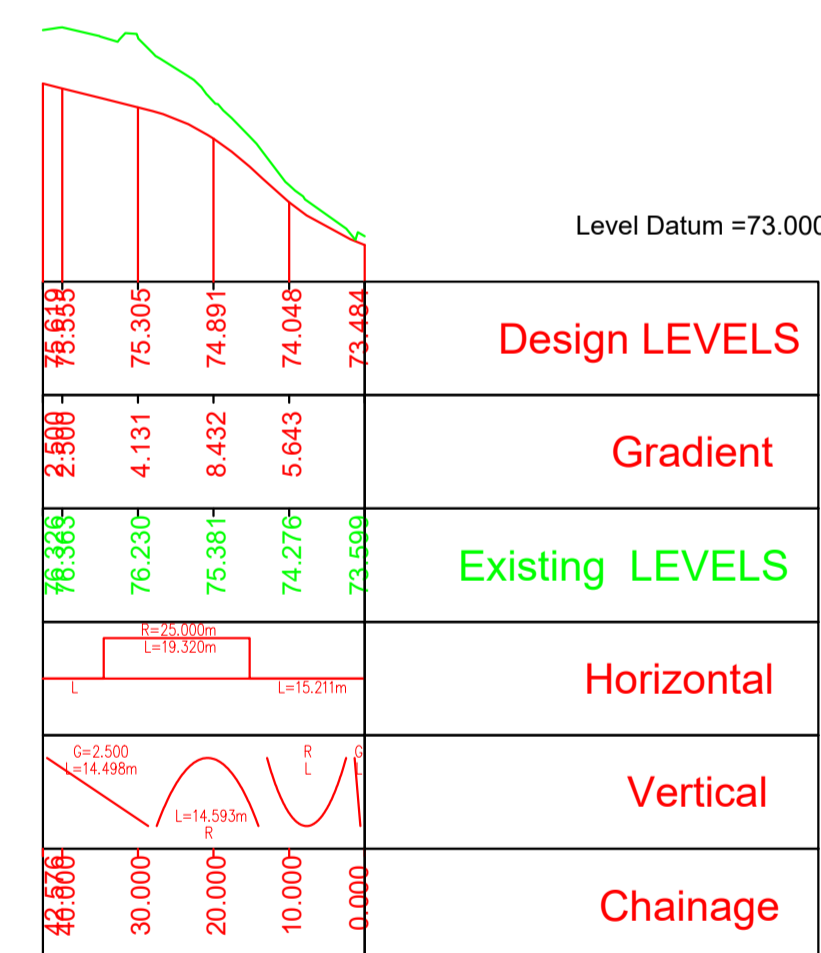
Direct Access No. 5: Common Farm Access



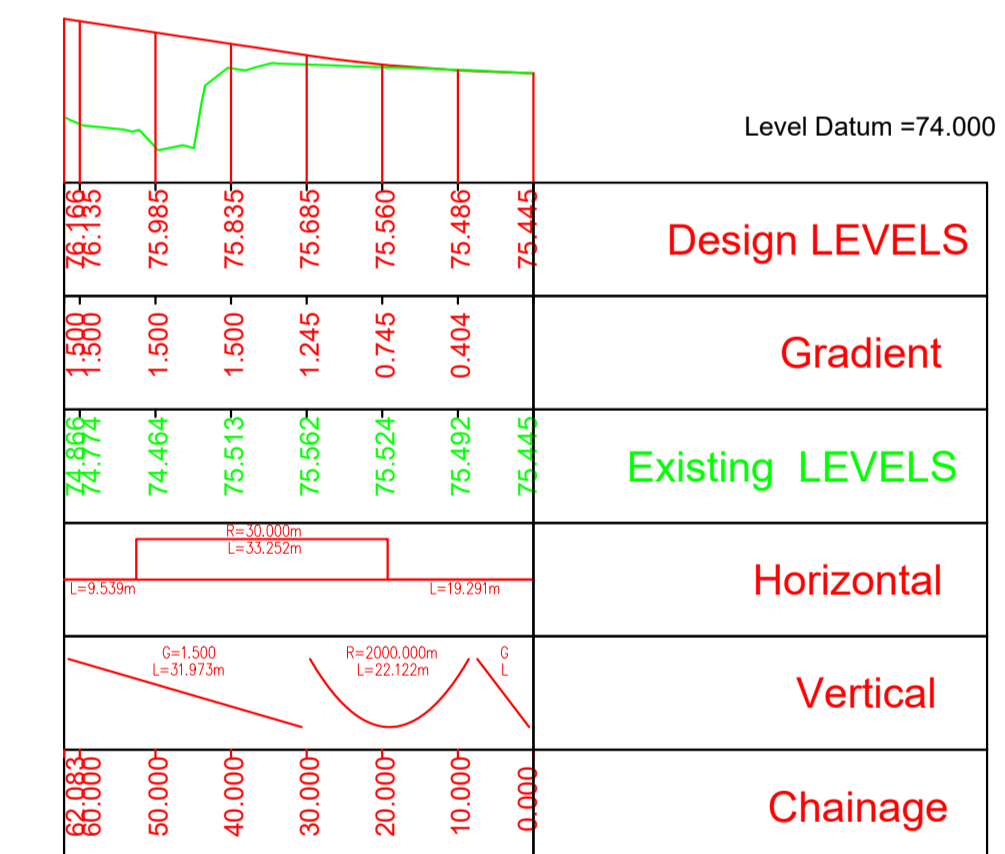
Direct Access No. 4: Public



Long-section along Centreline of Direct Access No. 6 Common Field Access



Long-section along Centreline of Direct Access No. 5 Common Farm Access



Long-section along Centreline of Direct Access No. 4 Public

- LEGEND:**
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 - Proposed Fence. Typically Timber Post & Tension Mesh to CC-SCD-00320.
 - Proposed Screen Fence.
 - Proposed Safety Barrier System.
 - Macadam Surface. Typically AC14 Close Sur 70/100 des.
 - Double Surface Dressing.
 - Proposed Noise Barrier System.
 - Proposed Kerb Line.

NOTES:

DO NOT SCALE

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F9	24/10/2020	Minor alterations further to TII review	JL	CD	GJ

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design
TRAMORE HOUSE REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

Tel: (051) 390130
 e-mail: natroads@thrdco.com

Approved by: G.Jones (GJ)
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 Drawn by: J.Leacy (JL)

Scale:
 Horizontal 1:1000
 Vertical 1:100 (A1)

Rev. Date:
 24/10/2020

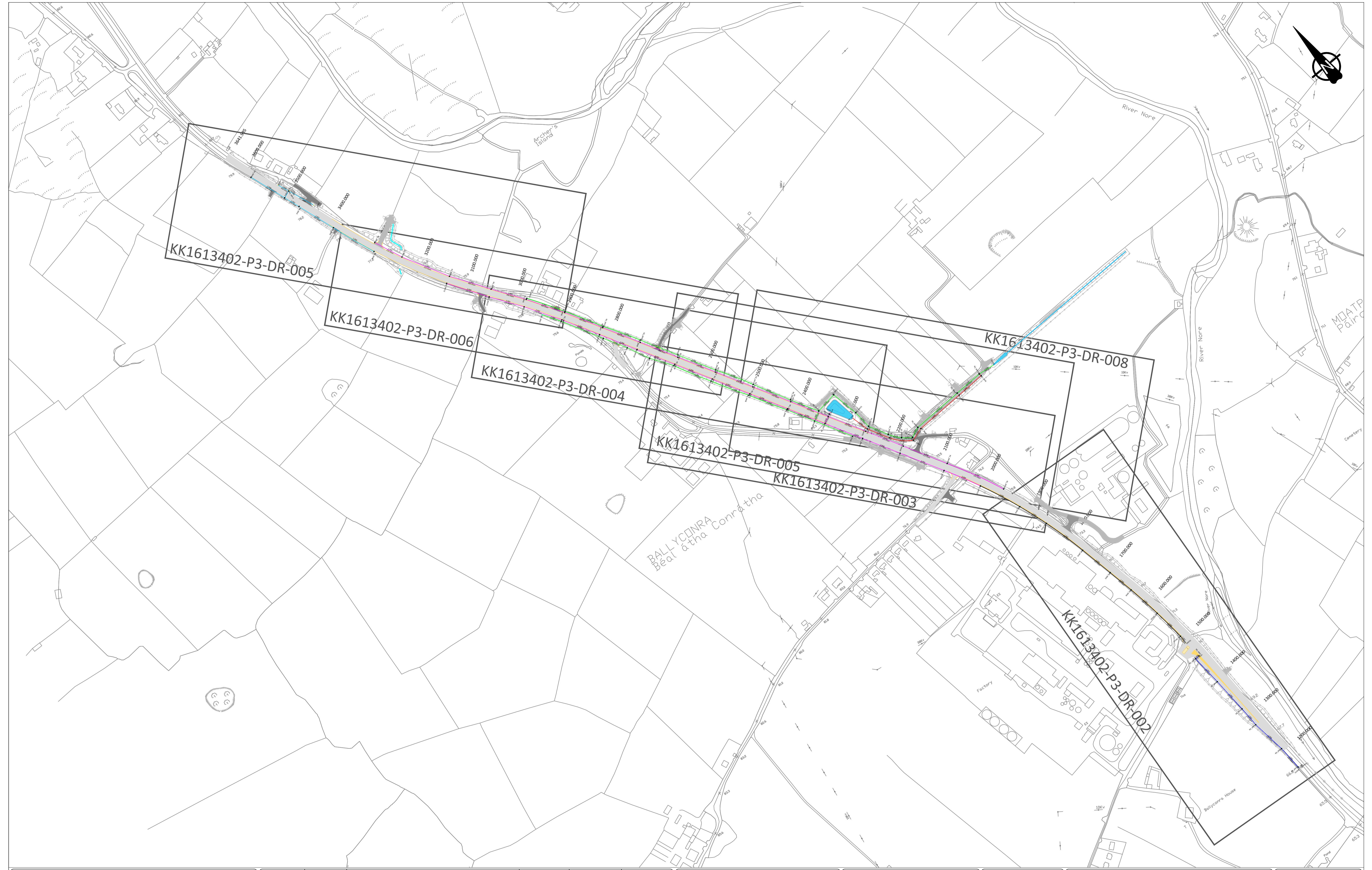
Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Preliminary Design - General Arrangement of Proposed Direct Accesses (Sheet 2 of 2)

Drawing Number: KK1613402-P3-GA-008

NRA Project No.: **KK161/13402**
 TH Project No.: **TH16/031**
 Project Folder No.: **7.6.1.6** Rev.: **F9**
 File Drawing: **KK1613402-P3-GA-008F9**

Drainage Layouts



NOTES:

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	28/5/2018	Preliminary Deign Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Deign Issue	JL	TB	GJ
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F4	16/9/2019	Minor changes further to client review	JL	CD	GJ
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F7	23/9/2020	Confirmation of drawing print size	JL	CD	GJ
F8	24/10/2020	Minor adjustments to layout	JL	CD	GJ

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KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design

TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

Tel: (051) 390130
 e-mail: natroads@thrdo.com

Approved by: G.Jones (GJ)
 Checked by: C.Daly (CD)
 Drawn by: J.Leacy (JL)

Scale: NTS (A1)

Rev. Date: 24/10/2020

Project Title: **N77 Ballyragget Village to Ballynaslee Road Improvement Scheme**

Drawing Title: **Drainage Layout Key Map**

Drawing Number: KK1613402-P3-DR-001

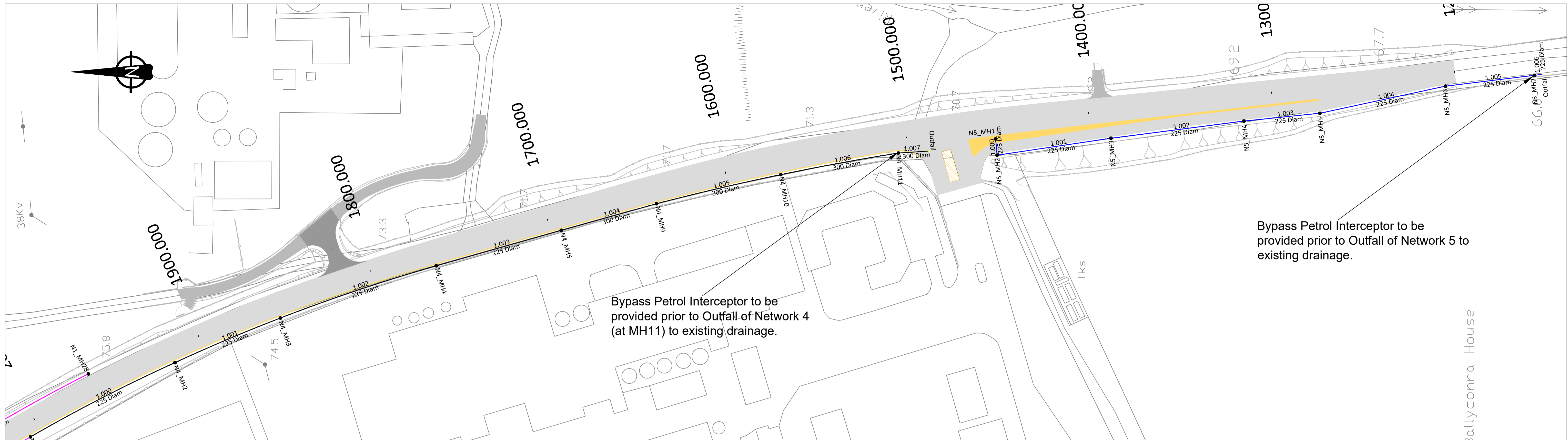
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TH Project No.: **TH/16/031**

Project Folder No.: **7.6.1.9**

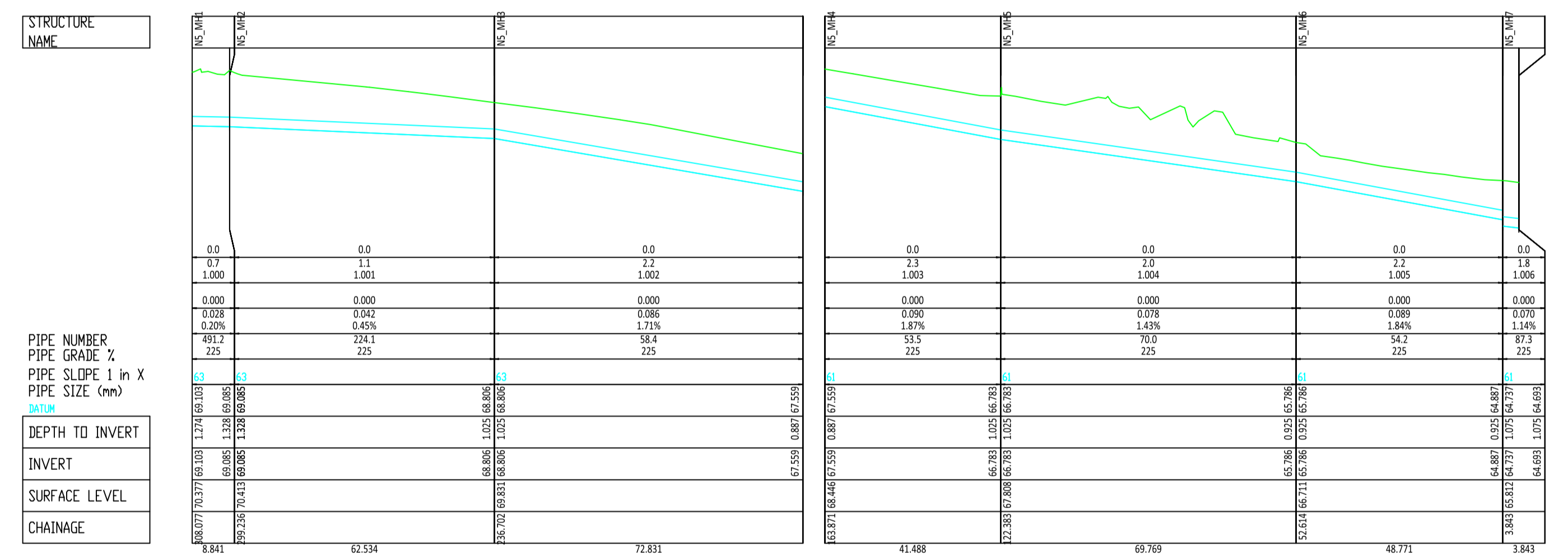
Rev.: **F8**

File Drawing: **KK1613402-P3-DR-001F8**

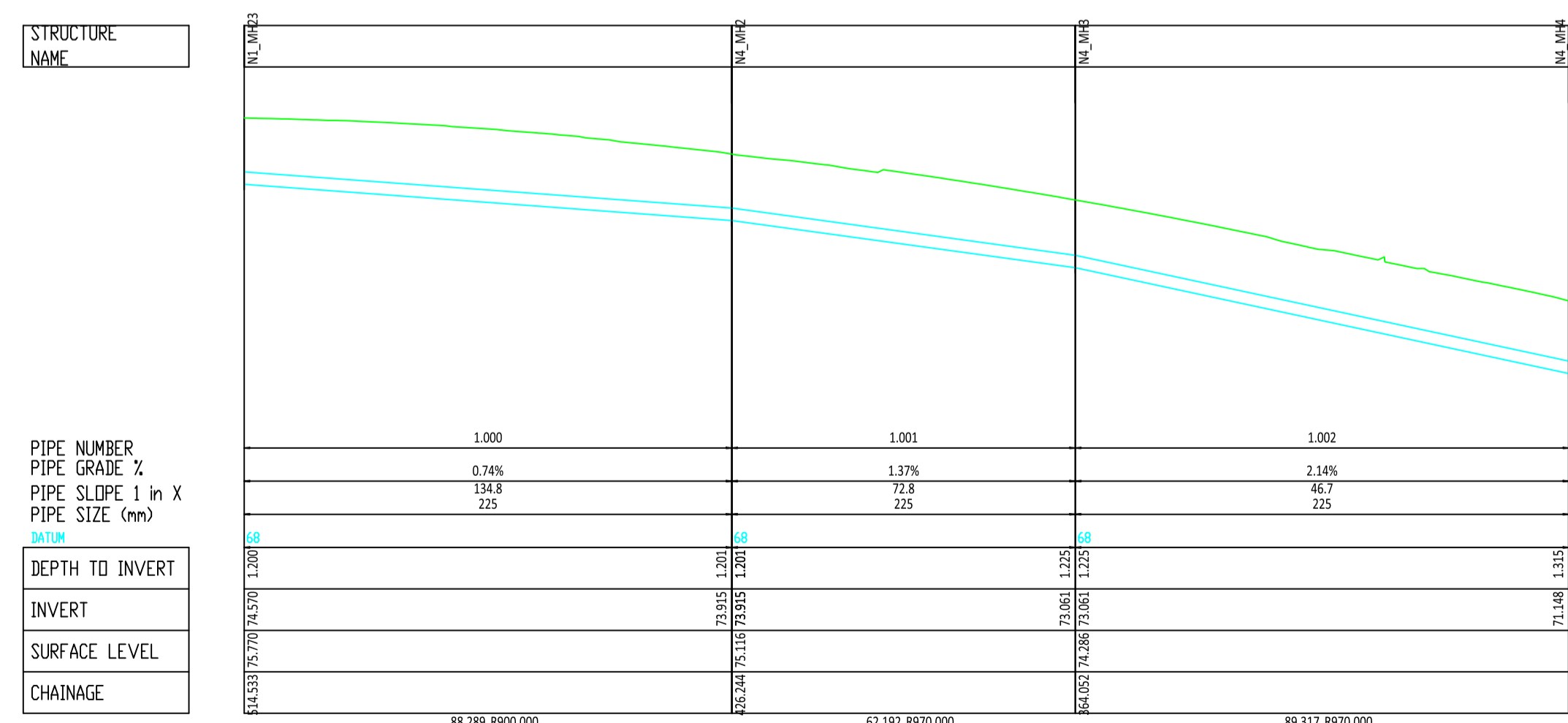


Bypass Petrol Interceptor to be provided prior to Outfall of Network 4 (at MH11) to existing drainage.

Bypass Petrol Interceptor to be provided prior to Outfall of Network 5 to existing drainage.



Longsection Drainage Network 5 (Pipe-run 1.000 to Pipe-run 1.006)



Longsection Drainage Network 4 (Pipe-run 1.000 to Pipe-run 1.007)

NOTES:

- Network 1
- Network 2
- Network 3
- Network 4
- Network 5
- Network 7

DO NOT SCALE

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F4	16/9/2019	Minor changes further to client review	JL	CD	G.J
F5	20/3/2020	Minor changes further to Client comments	JL	CD	G.J
F6	25/8/2020	Confirmation of drawing print size	JL	CD	G.J

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
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Design
TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

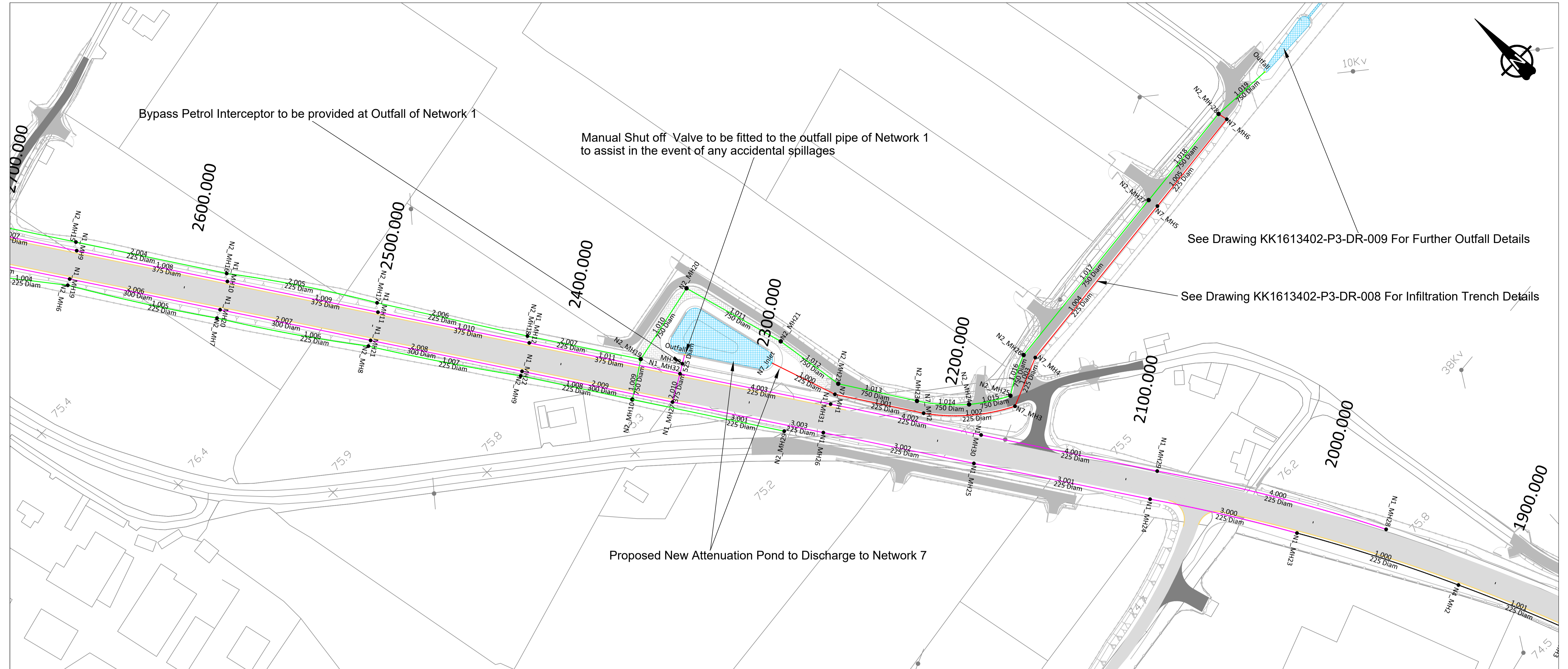
Approved by: G.Jones (GJ)
 Checked by: C.Daly (CD)
 Drawn by: J.Leacy (JL)
 Scale: Horizontal 1:1000
 Vertical 1:100 (A1)
 Rev. Date: 25/08/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
**Drainage Layout
 Network 4 & Network5 Details**

Drawing Number: KK1613402-P3-DR-002

NRA Project No.: **KK1613402**
 TH Project No.: **TH/16/031**
 Project Folder No.: **7.6.1.9**
 Rev.: **F6**
 Pdf Drawing: **KK1613402-P3-DR-002F6**



STRUCTURE NAME	N2_MH10	N2_MH9	N2_MH8	N2_MH7	N2_MH6	N2_MH5	N2_MH4	N2_MH3	N2_MH2	N2_MH1	N2_MH0	N2_MH28
PIPE NUMBER	1.009	1.010	1.011	1.012	1.013	1.014	1.015	1.016	1.017	1.018	1.019	
PIPE GRADE %	0.40%	0.20%	0.20%	0.21%	0.24%	0.20%	0.23%	0.19%	0.16%	0.28%	0.17%	
PIPE SLOPE 1 in X	52.3	49.0	50.3	47.4	49.3	49.5	43.8	51.2	65.2	36.0	37.4	
PIPE SIZE (mm)	750	750	750	750	750	750	750	750	750	750	750	
DEPTH TO INVERT	475	675	715	644	644	644	644	644	644	644	644	
INVERT	71.260	71.824	71.824	70.638	70.638	70.638	70.638	70.638	70.638	70.638	70.638	
SURFACE LEVEL	74.469	74.469	74.469	74.469	74.469	74.469	74.469	74.469	74.469	74.469	74.469	
CHAINAGE	21.448	43.877	56.261	68.645	81.029	93.413	105.797	118.181	130.565	142.949	155.333	

Longsection Drainage Network 2 (Pipe-run 1.009 to 1.019)

NOTES:

- Network 1
- Network 2
- Network 3
- Network 4
- Network 5
- Network 7

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	28/5/2018	Preliminary Design Issue	JL	TB	GJ
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F4	16/9/2019	Minor changes further to client review	JL	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised for inclusion of Noise Barrier (Ch 2280 to Ch 2500)	JL	CD	GJ
F7	29/8/2020	Confirmation of drawing print size	JL	CD	GJ

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design
TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

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Scale:
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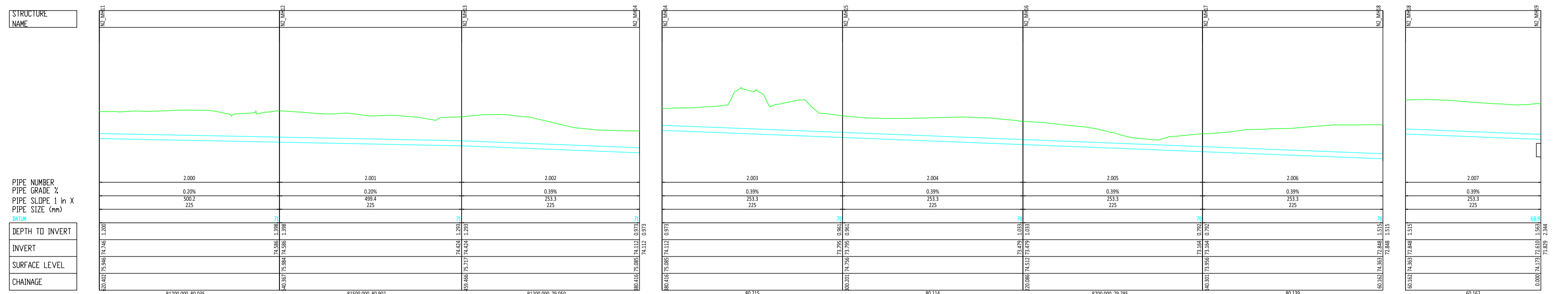
Rev. Date:
 25/08/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

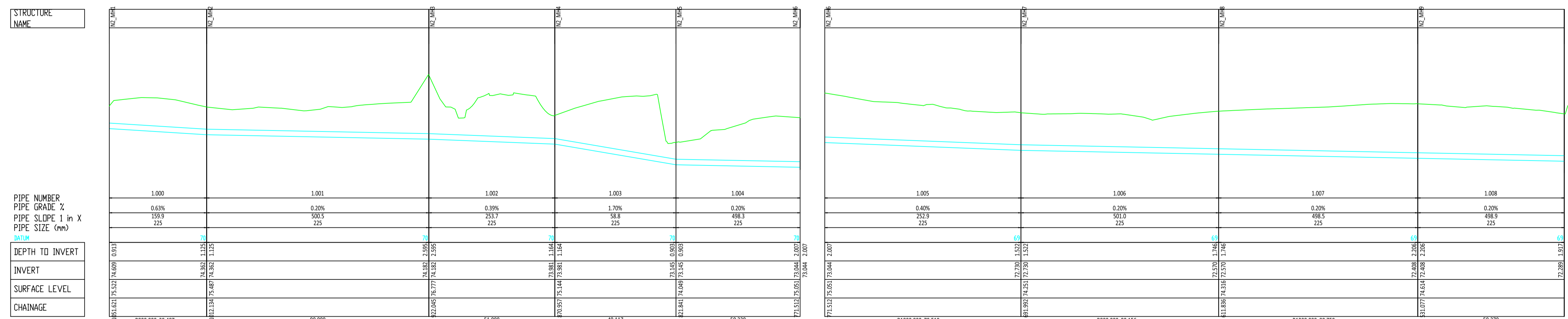
Drawing Title:
Drainage Layout Network 4 & Network 2 Details

Drawing Number: KK1613402-P3-DR-003

NRA Project No.: **KK1613402**
 TH Project No.: **TH/16/031**
 Project Folder No.: **7.6.1.9** Rev.: **F7**
 Pdf Drawing: **KK1613402-P3-DR-003F7**



Longsection Drainage Network 2 (Pipe-run 2.000 to 2.007)



Longsection Drainage Network 2 (Pipe-run 1.000 to 1.008)

- NOTES:
- Network 1
 - Network 2
 - Network 3
 - Network 4
 - Network 5
 - Network 7

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	28/5/2018	Preliminary Deign Issue	JL	TB	GJ
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F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	16/9/2019	Minor changes further to client review	JL	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised for Inclusion of Noise Barrier (Ch 2280 to Ch 2500)	JL	CD	GJ
F7	25/8/2020	Confirmation of drawing print size	JL	CD	GJ

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design
TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

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Scale:
 Horizontal 1:1000
 Vertical 1:100 (A1)

Rev. Date:
 25/08/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Drainage Layout Network 2 Details

Drawing Number: KK1613402-P3-DR-004

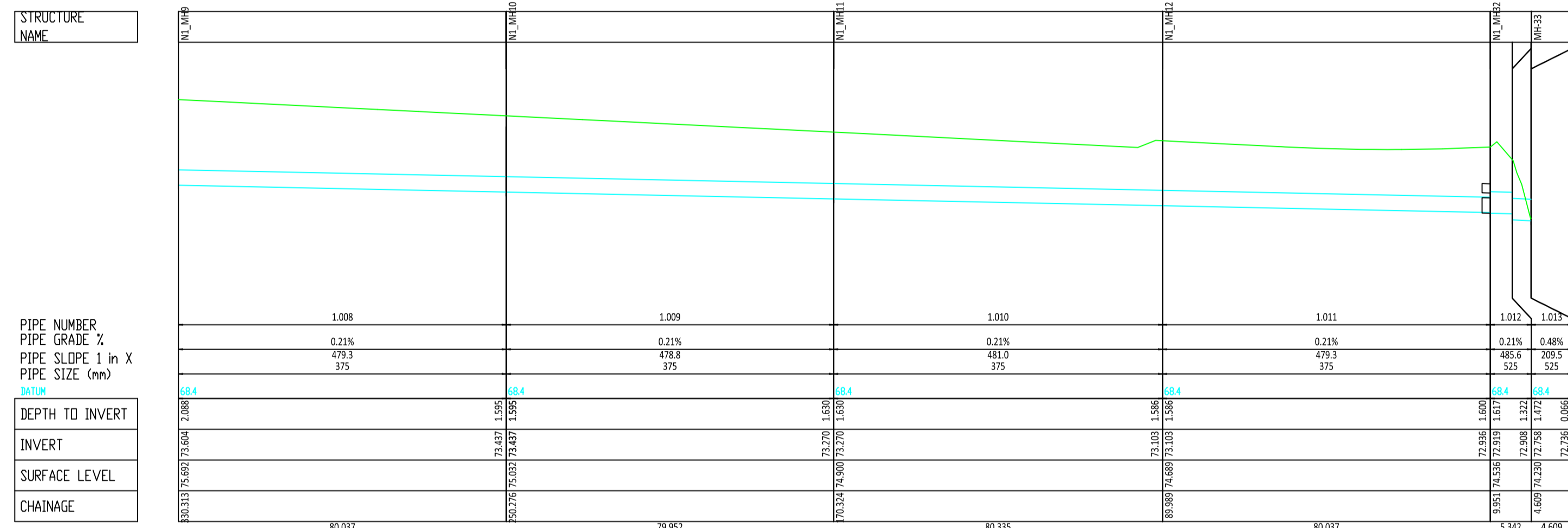
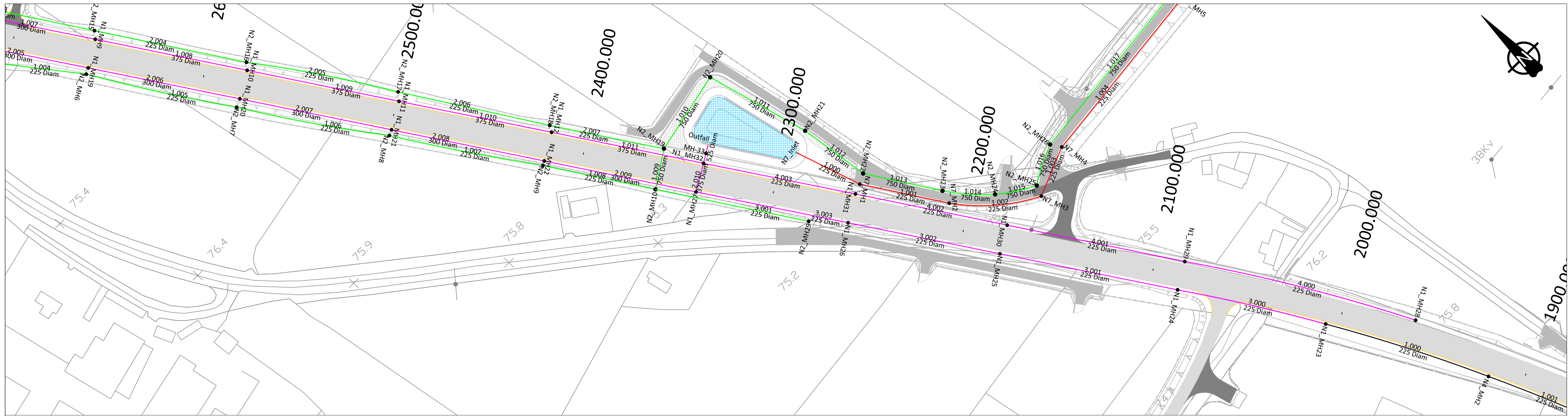
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TH Project No.:
 TH/16/031

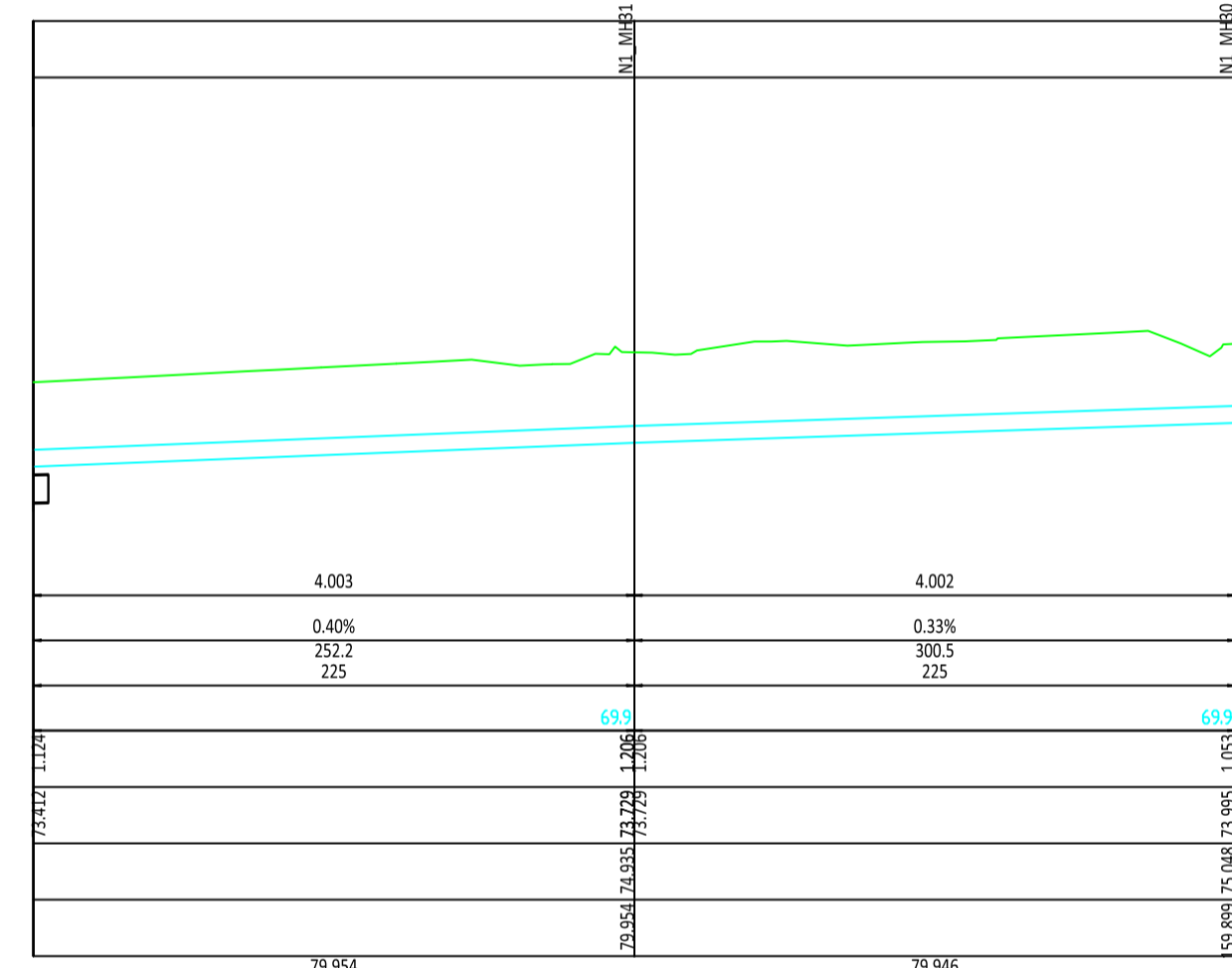
Project Folder No.:
 7.6.1.9

Rev.:
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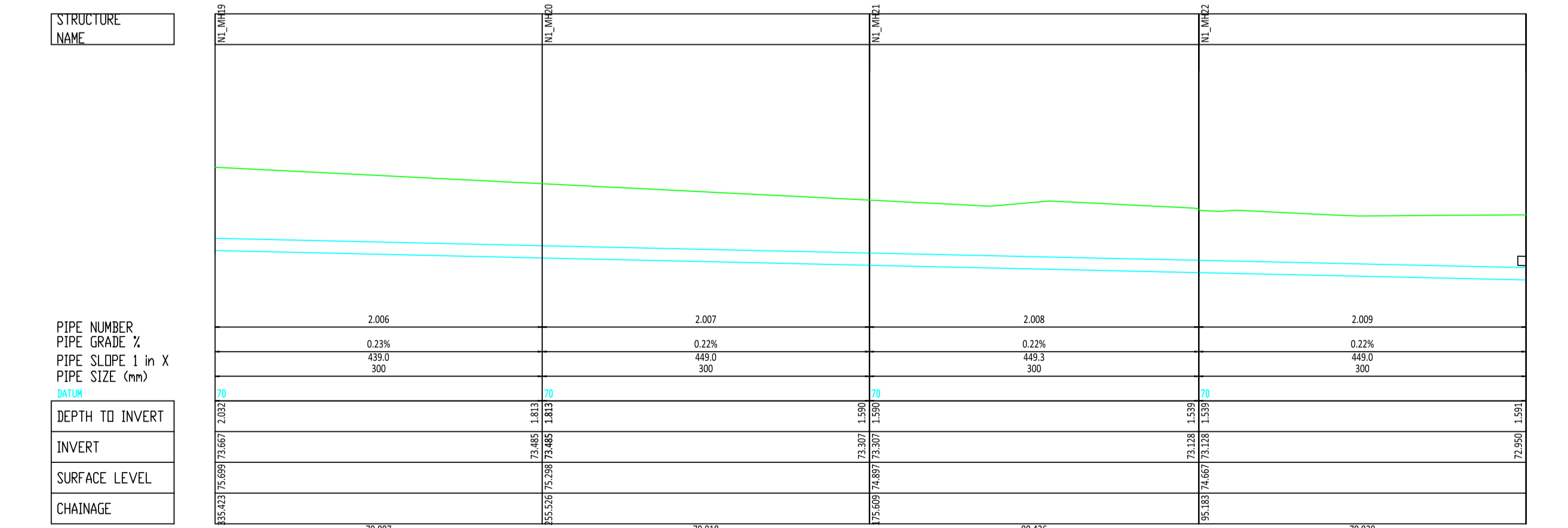
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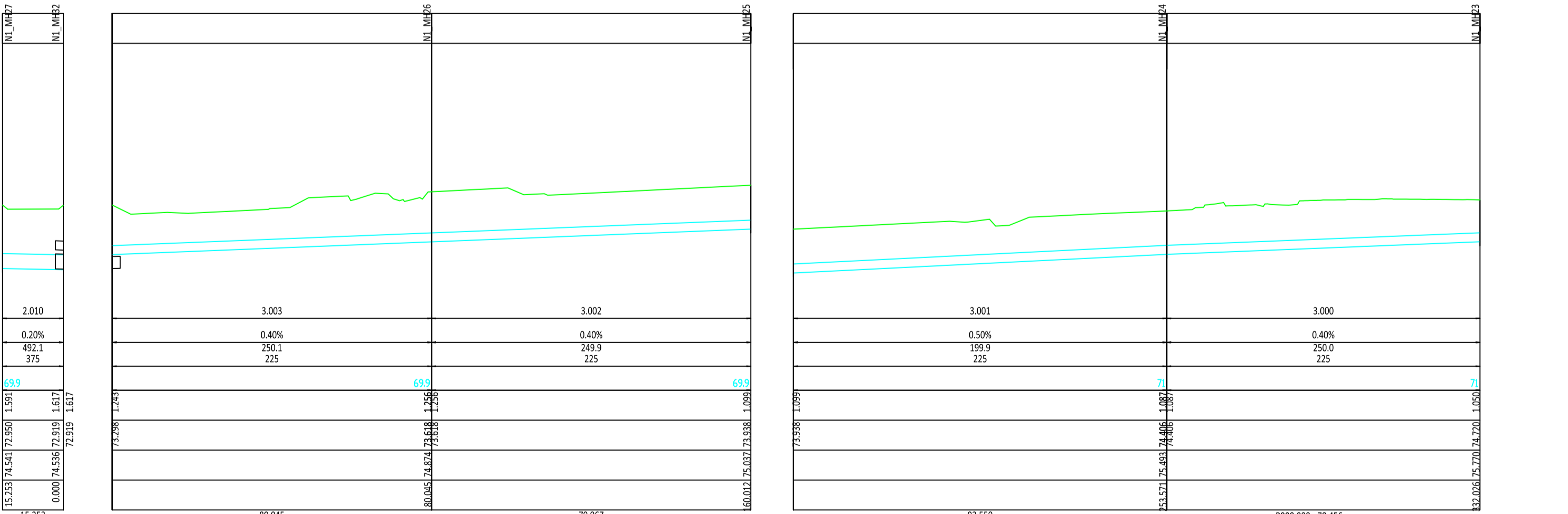
Longsection Drainage Network 1 (Pipe-run 1.008 to 1.013)



Longsection Drainage Network 1 (Pipe-run 4.000 to 4.003)



Longsection Drainage Network 1 (Pipe-run 2.006 to 2.010)



Longsection Drainage Network 1 (Pipe-run 3.000 to 3.003)

NOTES:

- Network 1
- Network 2
- Network 3
- Network 4
- Network 5
- Network 7

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
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Design
TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
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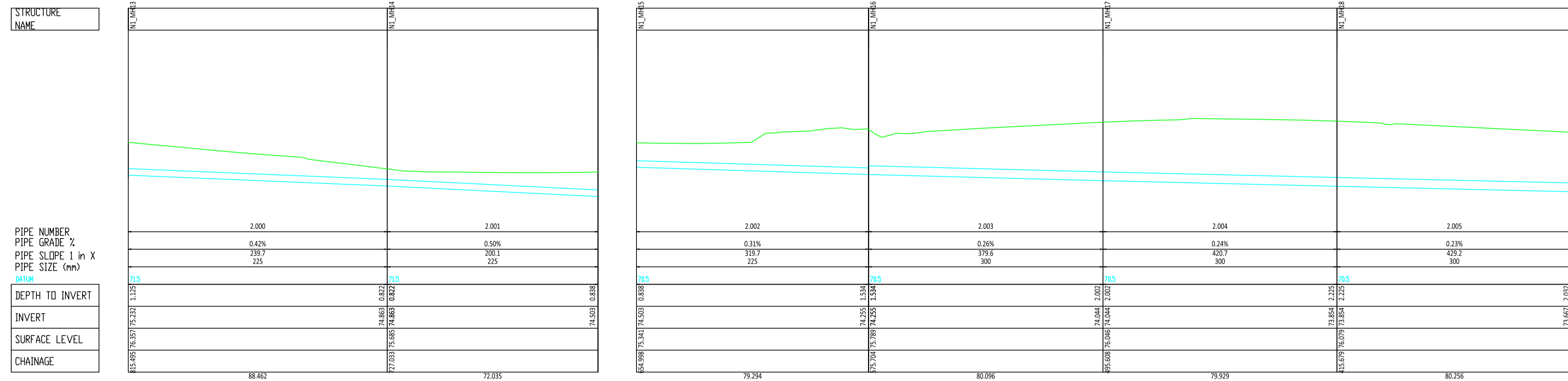
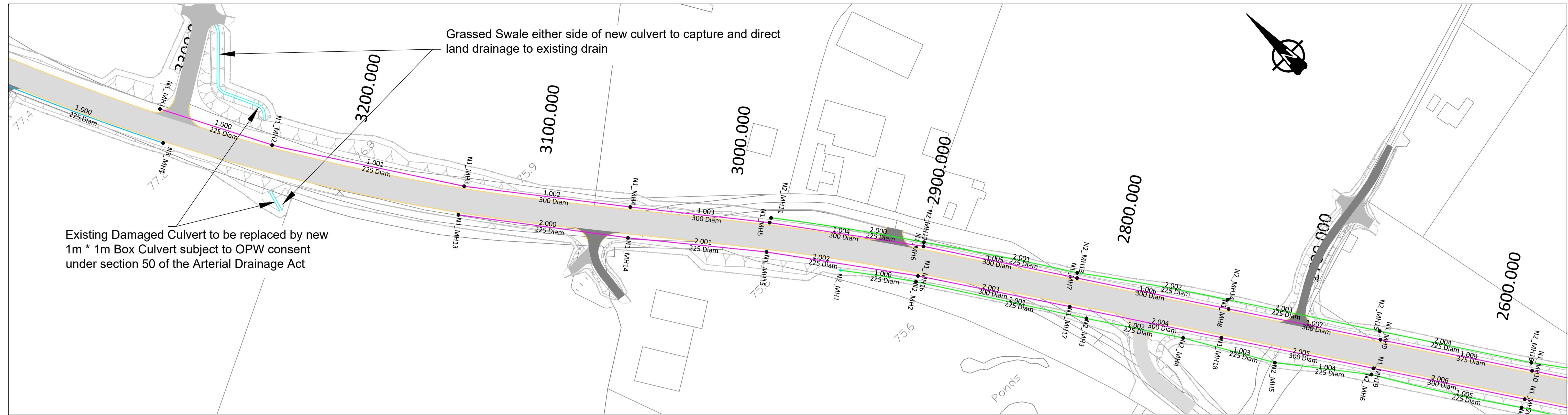
Approved by: G.Jones (GJ)
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 Drawn by: J.Leacy (JL)
 Scale: Horizontal 1:1000
 Vertical 1:100 (A1)
 Rev. Date: 25/08/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

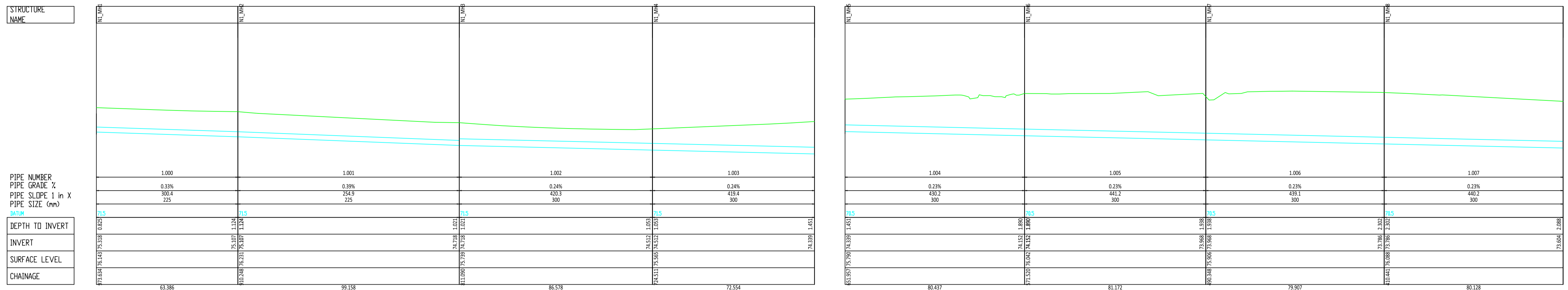
Drawing Title:
Drainage Layout Network 1 Details

Drawing Number: KK1613402-P3-DR-005

NRA Project No.: **KK1613402**
 TH Project No.: **TH/16/031**
 Project Folder No.: **7.6.1.9**
 Rev.: **F7**
 Pdf Drawing: **KK1613402-P3-DR-005F7**



Longsection Drainage Network 1 (Pipe-run 2.000 to 2.005)



Longsection Drainage Network 1 (Pipe-run 1.000 to 1.007)

NOTES:

- Network 1
- Network 2
- Network 3
- Network 4
- Network 5
- Network 7

DO NOT SCALE

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 KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkenyco.ie

Design
 TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

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 Scale: Horizontal 1:1000
 Vertical 1:100 (A1)
 Rev. Date: 24/10/2020

Project Title:
 N77 Ballyragget Village to Ballynaslee
 Road Improvement Scheme

Drawing Title:
 Drainage Layout
 Network 1 Details

Drawing Number: KK1613402-P3-DR-006

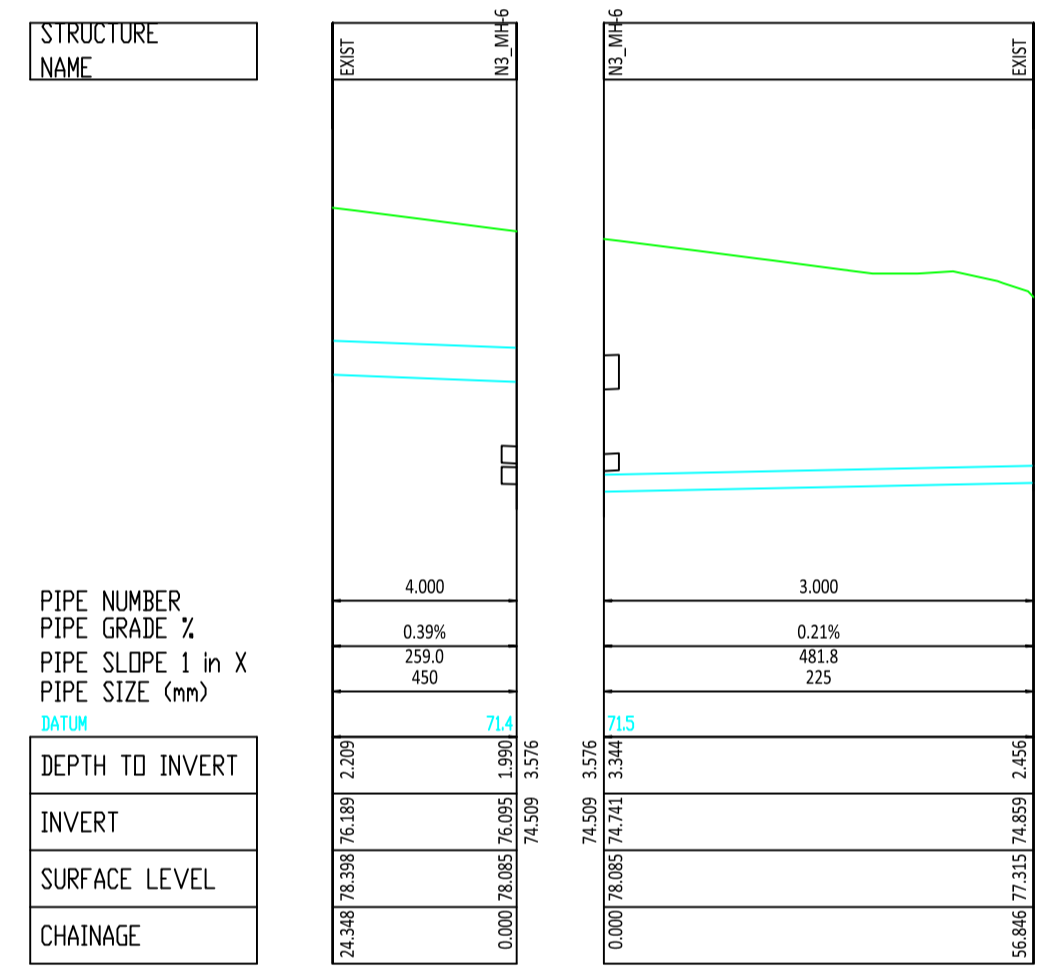
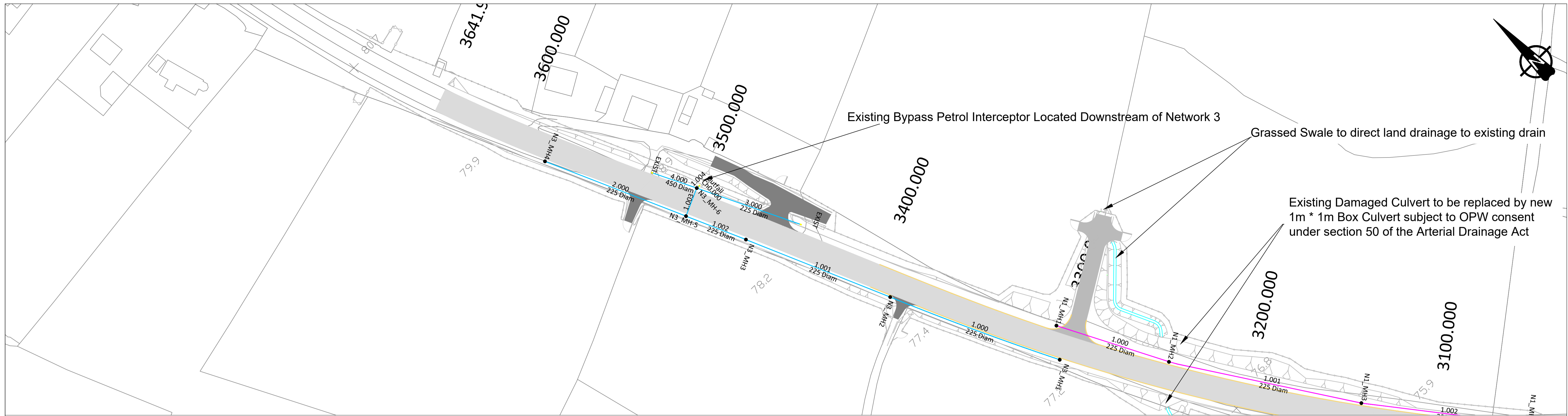
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 KK16/13402

TH Project No.:
 TH/16/031

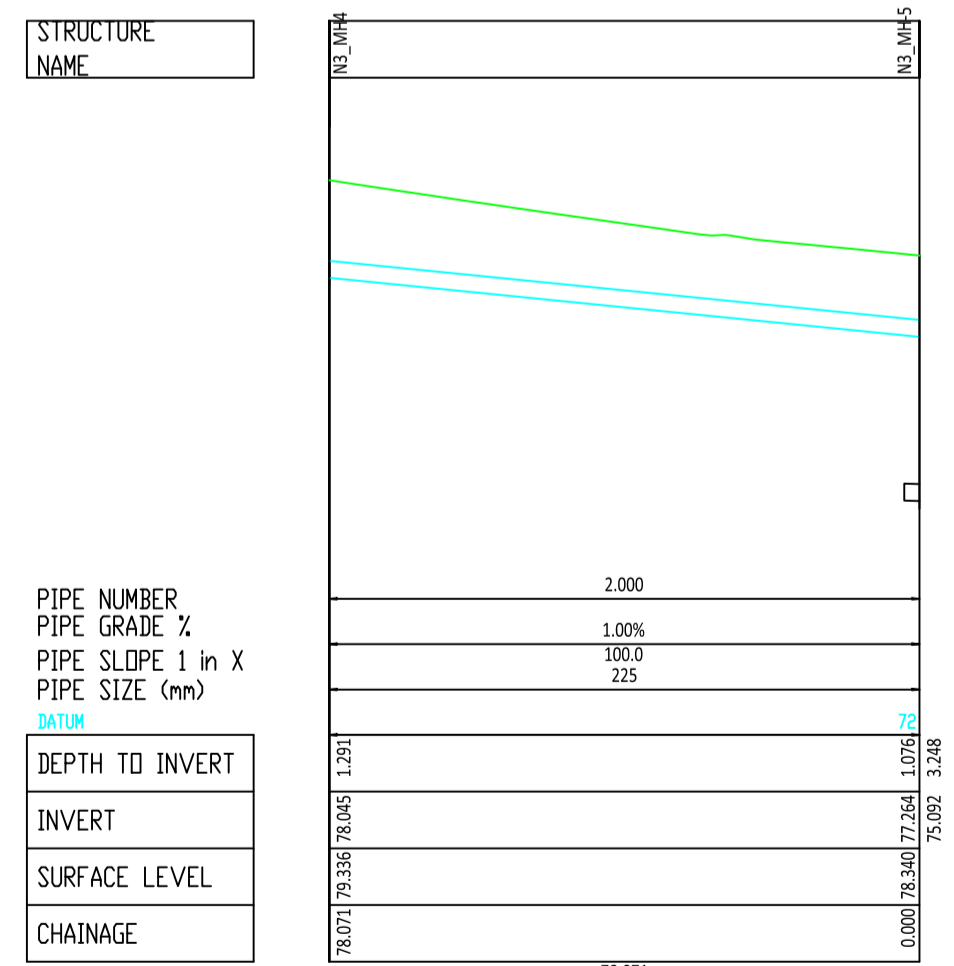
Project Folder No.:
 7.6.1.9

Rev.:
 F8

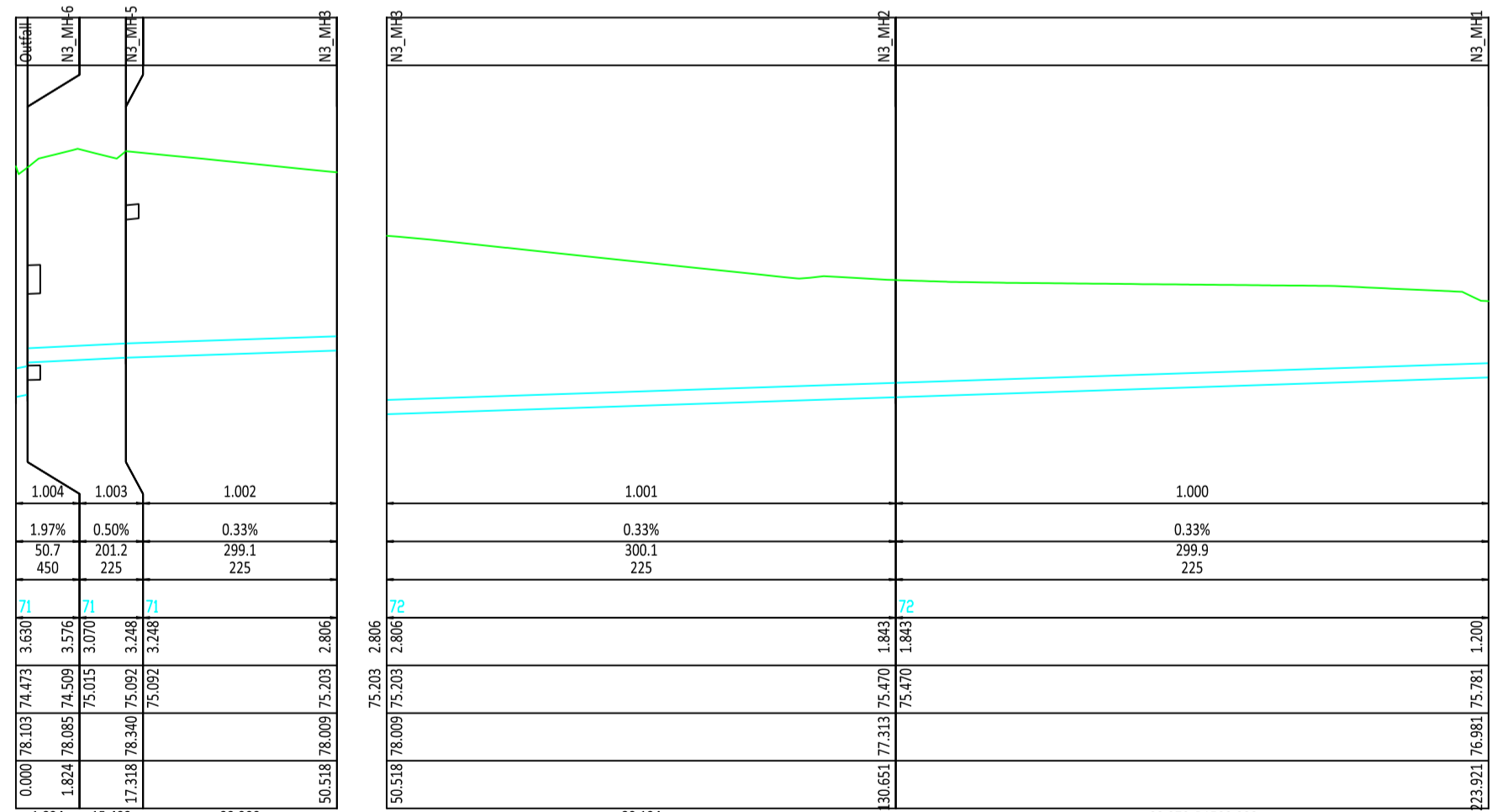
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Longsection Drainage Network 3 (Pipe-run 3.000 & 4.000)



Longsection Drainage Network 3 (Pipe-run 2.000)



Longsection Drainage Network 3 (Pipe-run 1.000 to 1.004)

NOTES:

- Network 1
- Network 2
- Network 3
- Network 4
- Network 5
- Network 7

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F5	20/3/2020	Minor changes further to Client comments	JL	CD	G.J
F6	20/7/2020	Further detailing of Culvert replacement	JL	CD	G.J
F7	23/8/2020	Confirmation of drawing print size	JL	CD	G.J
F8	24/10/2020	Minor adjustments to layout	JL	CD	G.J

Client

KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design

TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD

Tel: (051) 390130
 e-mail: natroads@thrd.com

Approved by: G.Jones (GJ)
 Checked by: C. Daly (CD)
 Drawn by: J. Leacy (JL)

Scale:
 Horizontal 1:1000
 Vertical 1:100 (A1)

Rev. Date:
 24/10/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Drainage Layout Network 3 Details

Drawing Number: KK1613402-P3-DR-007

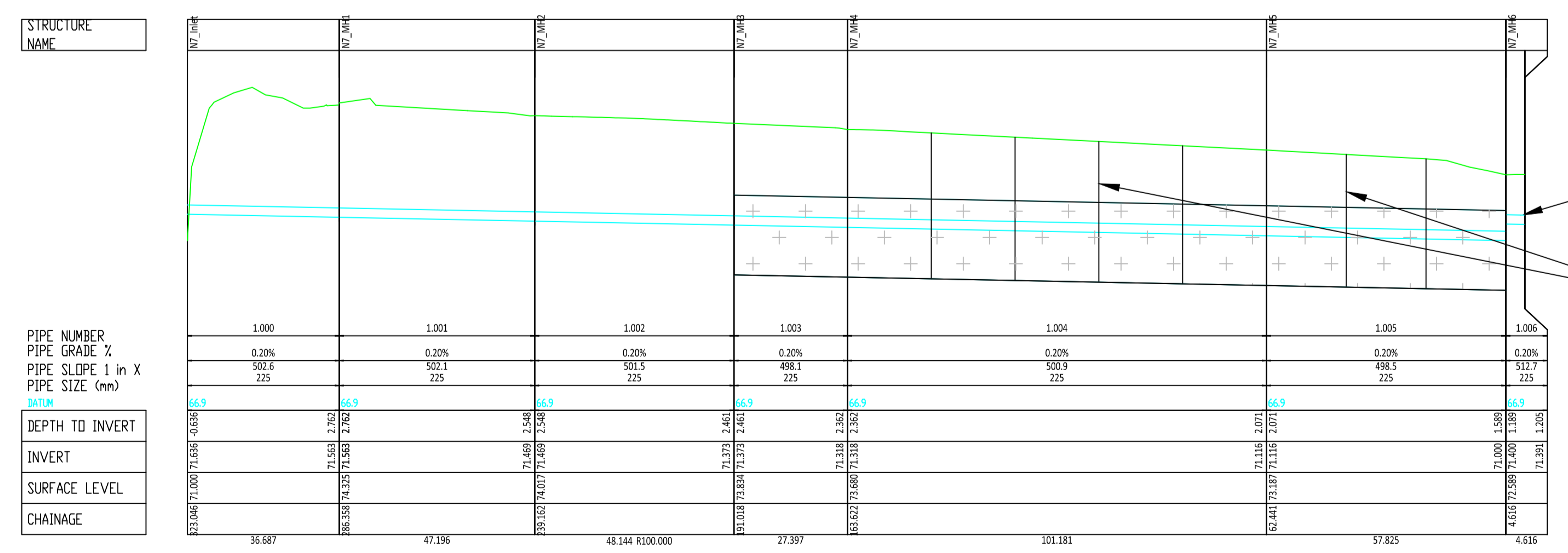
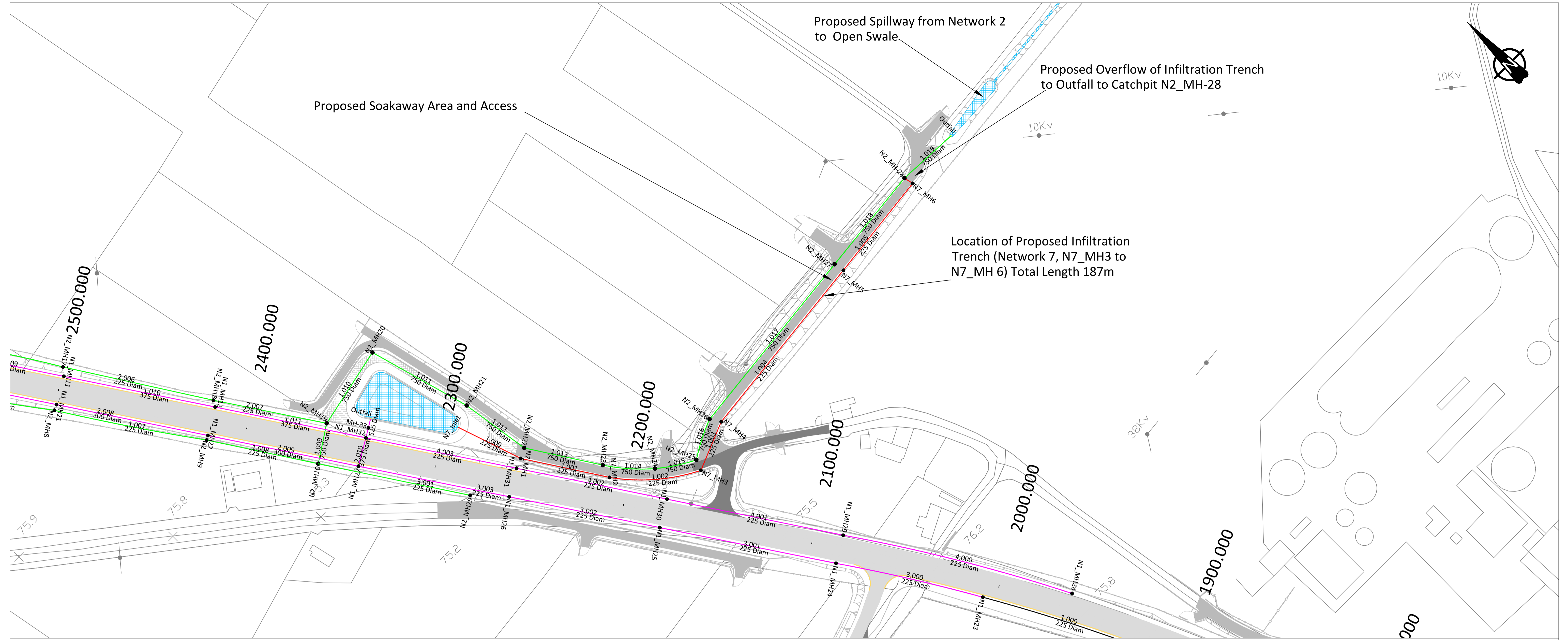
NRA Project No.: **KK16/13402**

TH Project No.: **TH/16/031**

Project Folder No.: **7.6.1.9**

Rev.: **F8**

File Drawing: **KK1613402-P3-DR-007F8**



Longsection Drainage Network 7 From Attenuation Pond to Overflow From Infiltration Trench

Proposed Overflow Pipe from Soakaway to Catchpit N2_MH-28

Perforated Inspection Chambers to be provided along the length of the Infiltration Trench

NOTES:

- Network 1
- Network 2
- Network 3
- Network 4
- Network 5
- Network 7

DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	28/5/2018	Preliminary Deign Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Deign Issue	JL	TB	GJ
F3	7/8/2019	Minor changes to Fence Line	JL	CD	GJ
F4	16/9/2019	Minor changes further to client review	JL	CD	GJ
F5	20/3/2020	Minor changes further to Client comments	JL	CD	GJ
F6	4/6/2020	Revised for Inclusion of Noise Barrier (Ch 2280 to Ch 2500)	JL	CD	GJ
F7	25/8/2020	Confirmation of drawing print size	JL	CD	GJ

Client
KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY

Tel: (056) 7794000
 e-mail: secretar@kilkenyccoco.ie

Design
TRAMORE HOUSE REGIONAL DESIGN OFFICE
 TRAMORE CO. WATERFORD

Tel: (051) 390130
 e-mail: natroads@thrdo.com

Approved by: G.Jones (GJ)
 Checked by: C.Daly (CD)
 Drawn by: J.Leacy (JL)

Scale:
 Horizontal 1:1000
 Vertical 1:100 (A1)

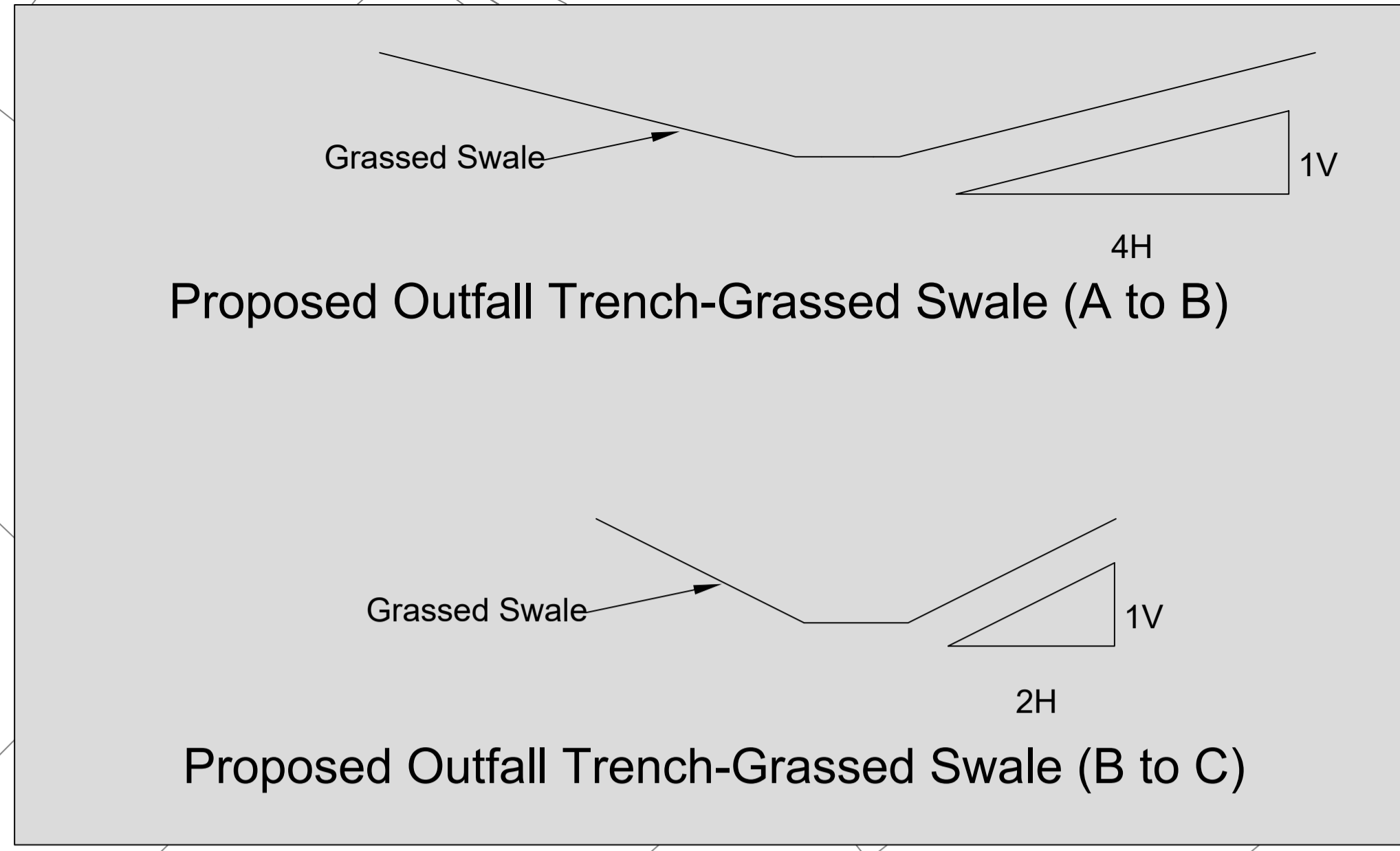
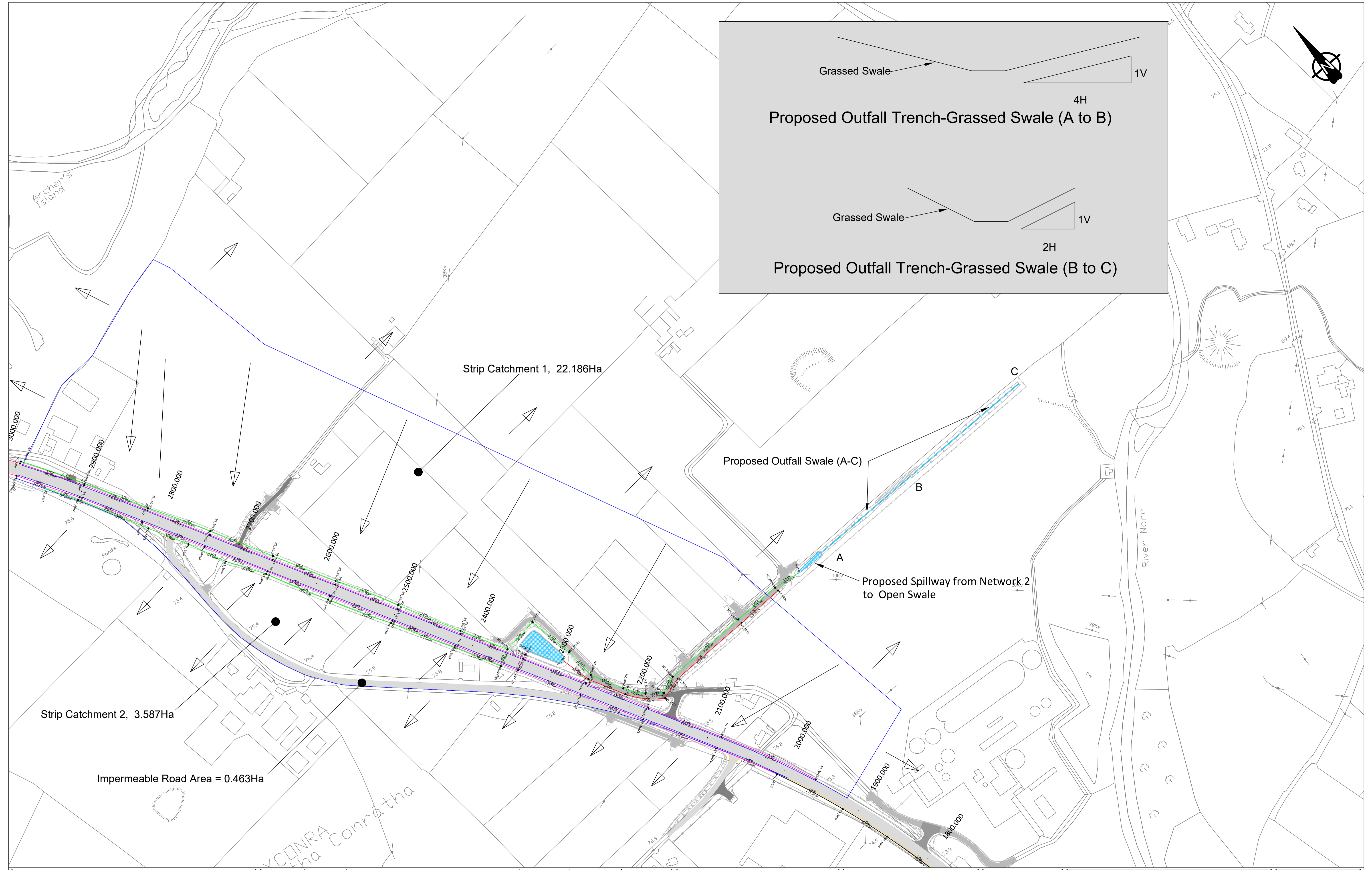
Rev. Date:
 25/08/2020

Project Title:
N77 Ballyragget Village to Ballynaslee Road Improvement Scheme

Drawing Title:
Drainage Layout Network 7 and Soakaway Details

Drawing Number: KK1613402-P3-DR-008

NRA Project No.: **KK16/13402**
 TH Project No.: **TH/16/031**
 Project Folder No.: **7.6.1.9** Rev.: **F7**
 Pdf Drawing: **KK1613402-P3-DR-008F7**



Strip Catchment 1, 22.186Ha

Strip Catchment 2, 3.587Ha

Impermeable Road Area = 0.463Ha

NOTES:
 Indicative Land Drainage Flow Arrows
 DO NOT SCALE

Revision	Date	Description	Drawn by	Checked by	Approved by
F1	28/5/2018	Preliminary Deign Issue	JL	TB	GJ
F2	31/10/2018	Minor changes to Preliminary Deign Issue	JL	TB	GJ
F3	7/8/2019	Minor changes to Land-lake	JL	CD	GJ
F4	16/9/2019	Minor changes further to client review	JL	CD	GJ
F5	25/8/2020	Confirmation of drawing print size	JL	CD	GJ

Client
 KILKENNY COUNTY COUNCIL
 COUNTY HALL
 JOHN STREET
 KILKENNY
 Tel: (056) 7794000
 e-mail: secretar@kilkennycoco.ie

Design

 TRAMORE HOUSE
 REGIONAL DESIGN OFFICE
 TRAMORE
 CO. WATERFORD
 Tel: (051) 390130
 e-mail: natroads@thrdo.com

Approved by: G.Jones (GJ)
 Checked by: C.Daly (CD)
 Drawn by: J.Leacy (JL)
 Scale: NTS (A1)
 Rev. Date: 25/08/2020

Project Title:
 N77 Ballyragget Village to Ballynaslee
 Road Improvement Scheme
 Drawing Title:
 Drainage Layout
 Land Drainage and Outfall Drainage
 Drawing Number: KK1613402-P3-DR-009

NRA Project No.: KK1613402
 TH Project No.: TH/16/031
 Project Folder No.: 7.6.1.9
 Rev.: F5
 Pdf Drawing: KK1613402-P3-DR-001F5