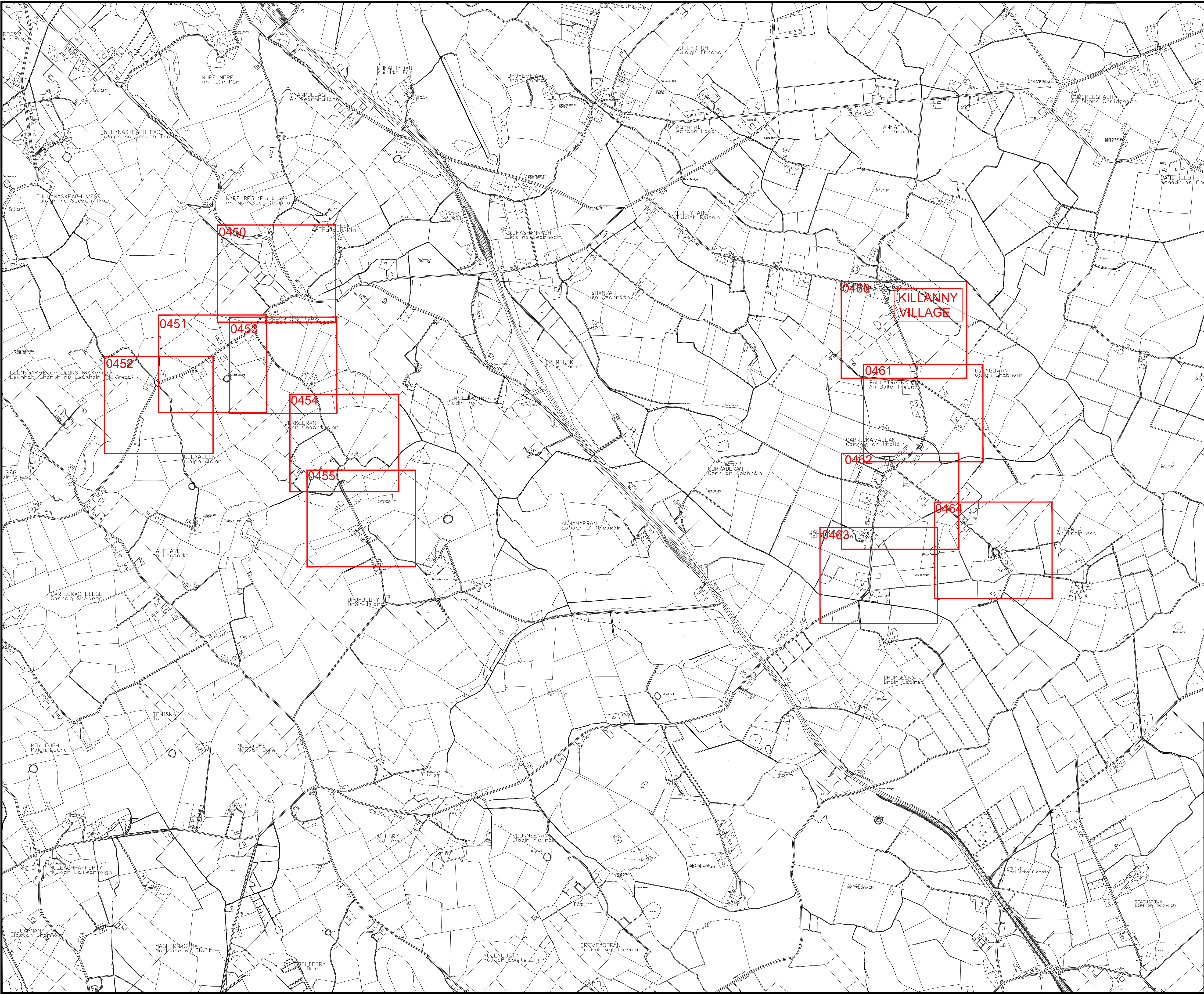
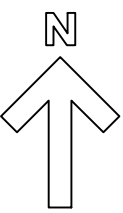
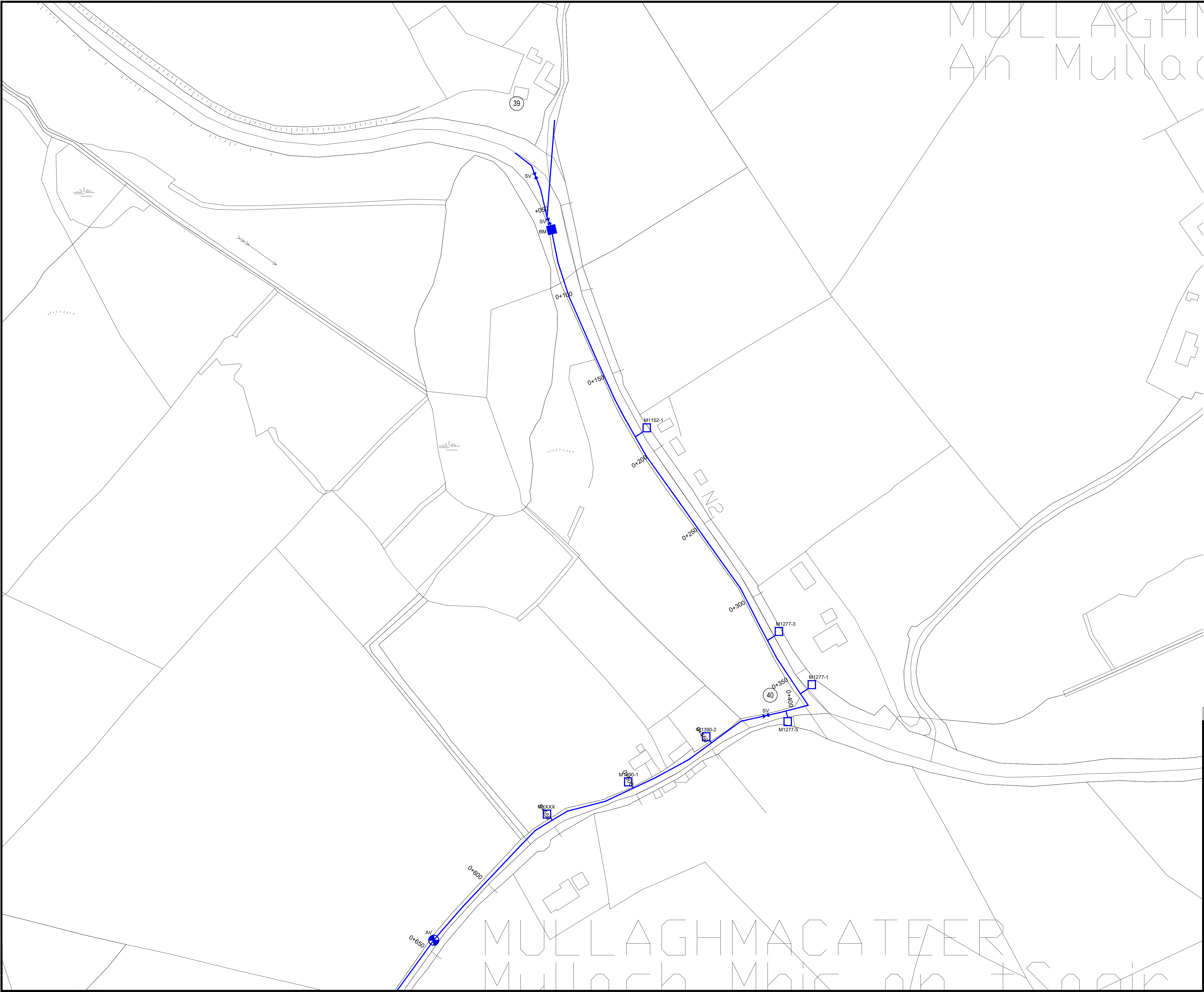


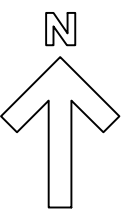
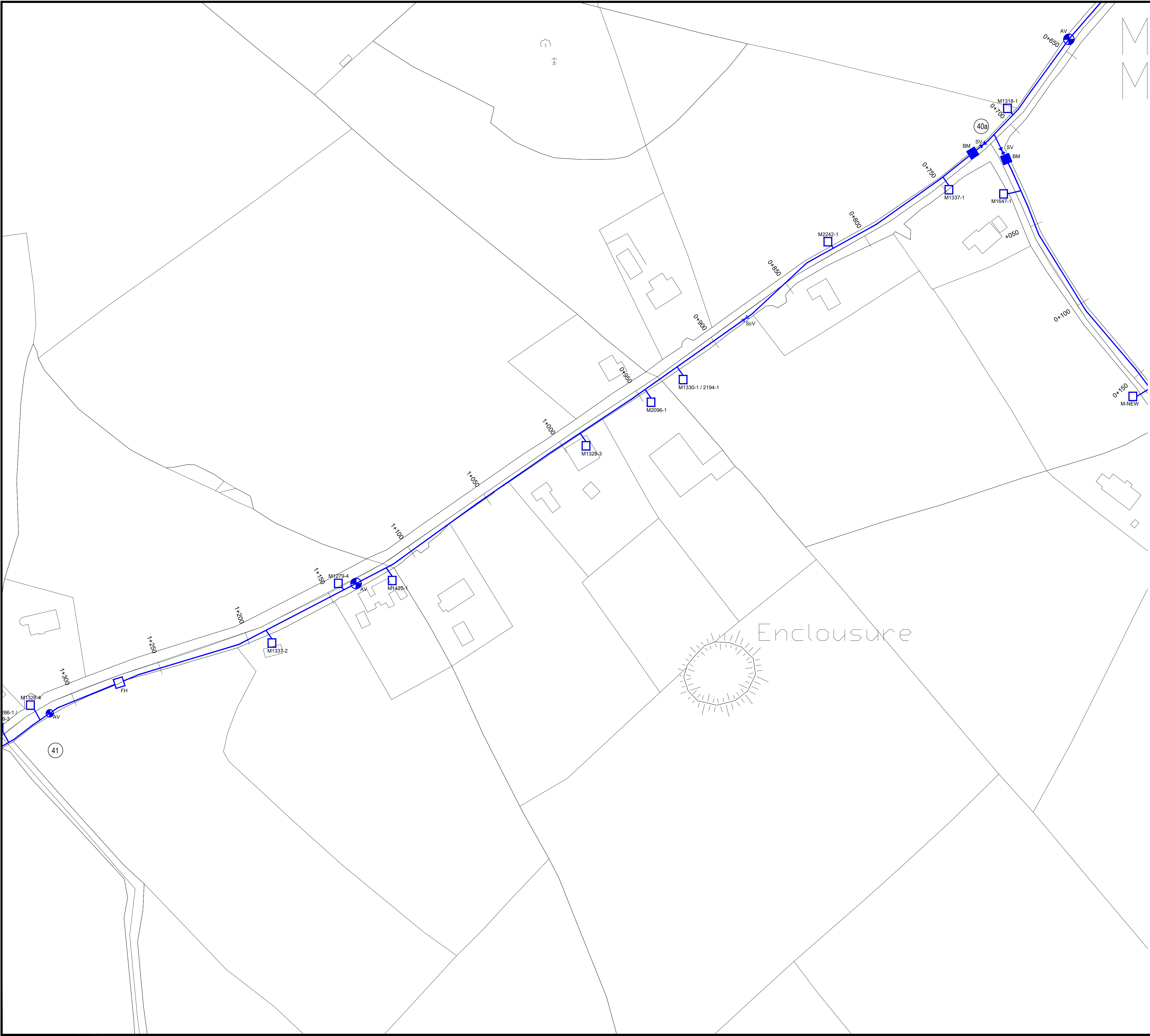


C01	AT	ISSUED FOR TENDER	06.07.2026
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR TENDER			
CHECKED BY: LC		REVIEWED BY: BP	APPROVED BY: NMCC
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CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18. Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie			
PROJECT: KILLANNY / REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY / REAGHSTOWN GWS			
DRAWING TITLE: KEY PLAN PROPOSED MAINS LAYOUT			
SCALE: 1:10,000			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0130			REV: C01



- NOTES:**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
 - ALL LEVELS ARE IN METRES O.D. MALIN.
 - THE POSITION OF EXISTING SERVICES INsofar AS THEY ARE KNOWN AND AS SHOWN ON THE DRAWINGS MAY NOT BE ACCURATE AND MERELY INDICATE THEIR PRESENCE IN THE WORKING AREA.
 - FOR BEDDING DETAILS REFER TO DRAWING 0500.
 - FOR VALVE CHAMBER DETAILS REFER TO DRAWING 0501
 - FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 - FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0505.
- LEGEND**
- | | |
|---------------------|-----|
| PROPOSED WATERMAIN | |
| SCOUR VALVE | ScV |
| SLUICE VALVE | SV |
| AIR VALVE | AV |
| FIRE HYDRANT | FH |
| BULK METER | BM |
| PROPOSED CONNECTION | M14 |

C01	AT	ISSUED FOR TENDER	06.07.2026
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DRAWING STATUS: ISSUED FOR TENDER			
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PROJECT:		KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHTOWN GWS	
DRAWING TITLE:		LAYOUT OF PROPOSED WATERMAIN DRUMBOORY UPGRADE	
SCALE:		1:1000	(A1)
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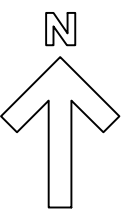
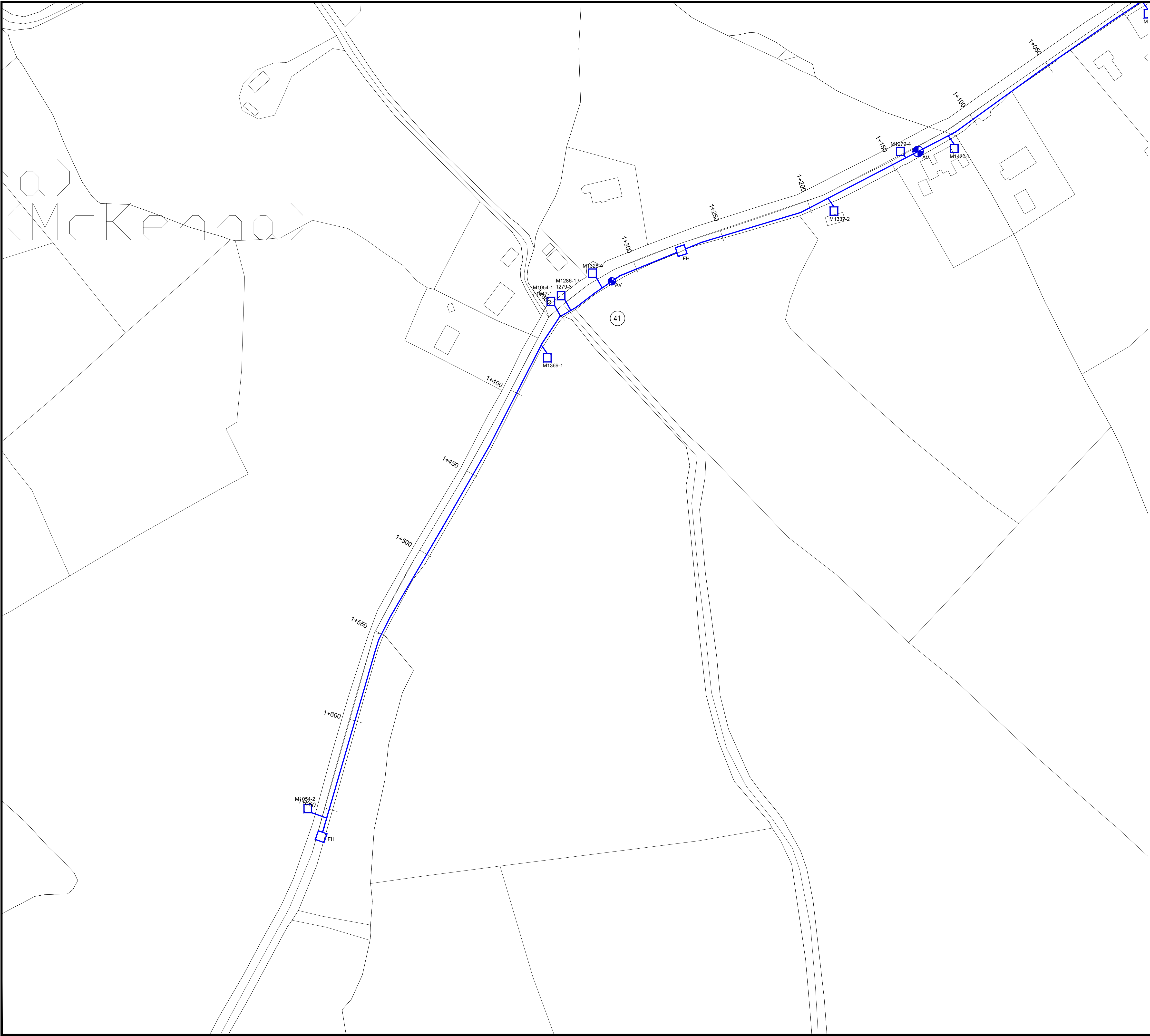


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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0505.

LEGEND

PROPOSED WATERMAIN	
SCOUR VALVE	ScV
SLUICE VALVE	SV
AIR VALVE	AV
FIRE HYDRANT	FH
BULK METER	BM
PROPOSED CONNECTION	M14

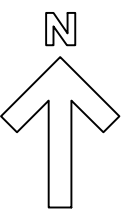
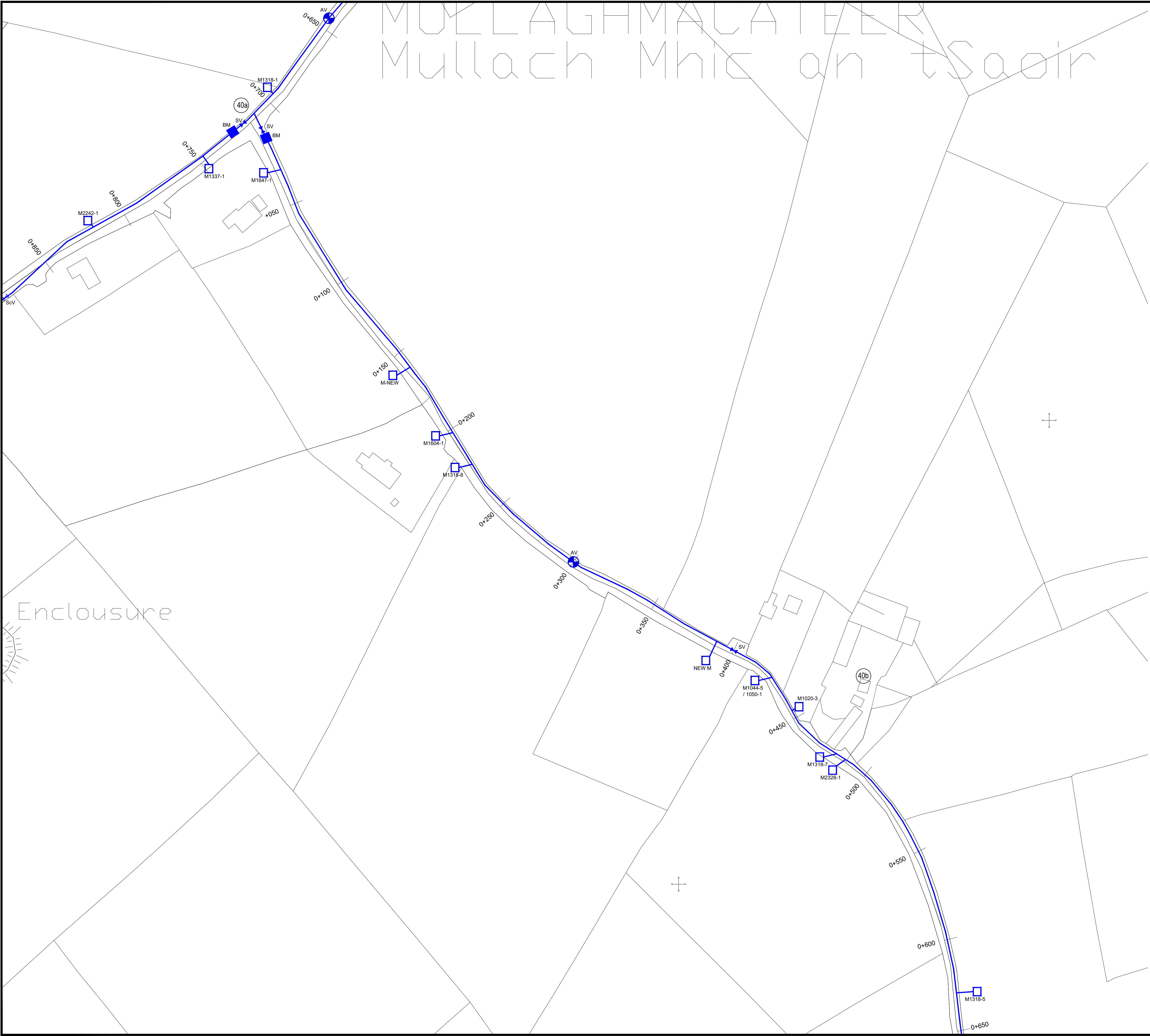
C01	AT	ISSUED FOR TENDER	06.07.2026
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR TENDER			
CHECKED BY: LC		REVIEWED BY: BP	APPROVED BY: NMcc
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PROJECT: KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN DRUMBOORY UPGRADE			
SCALE: 1:1000			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0451			REV: C01



- NOTES:
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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0505.

LEGEND	
PROPOSED WATERMAIN	
SCOUR VALVE	ScV
SLUICE VALVE	SV
AIR VALVE	AV
FIRE HYDRANT	FH
BULK METER	BM
PROPOSED CONNECTION	M14

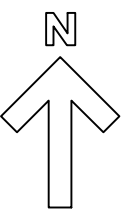
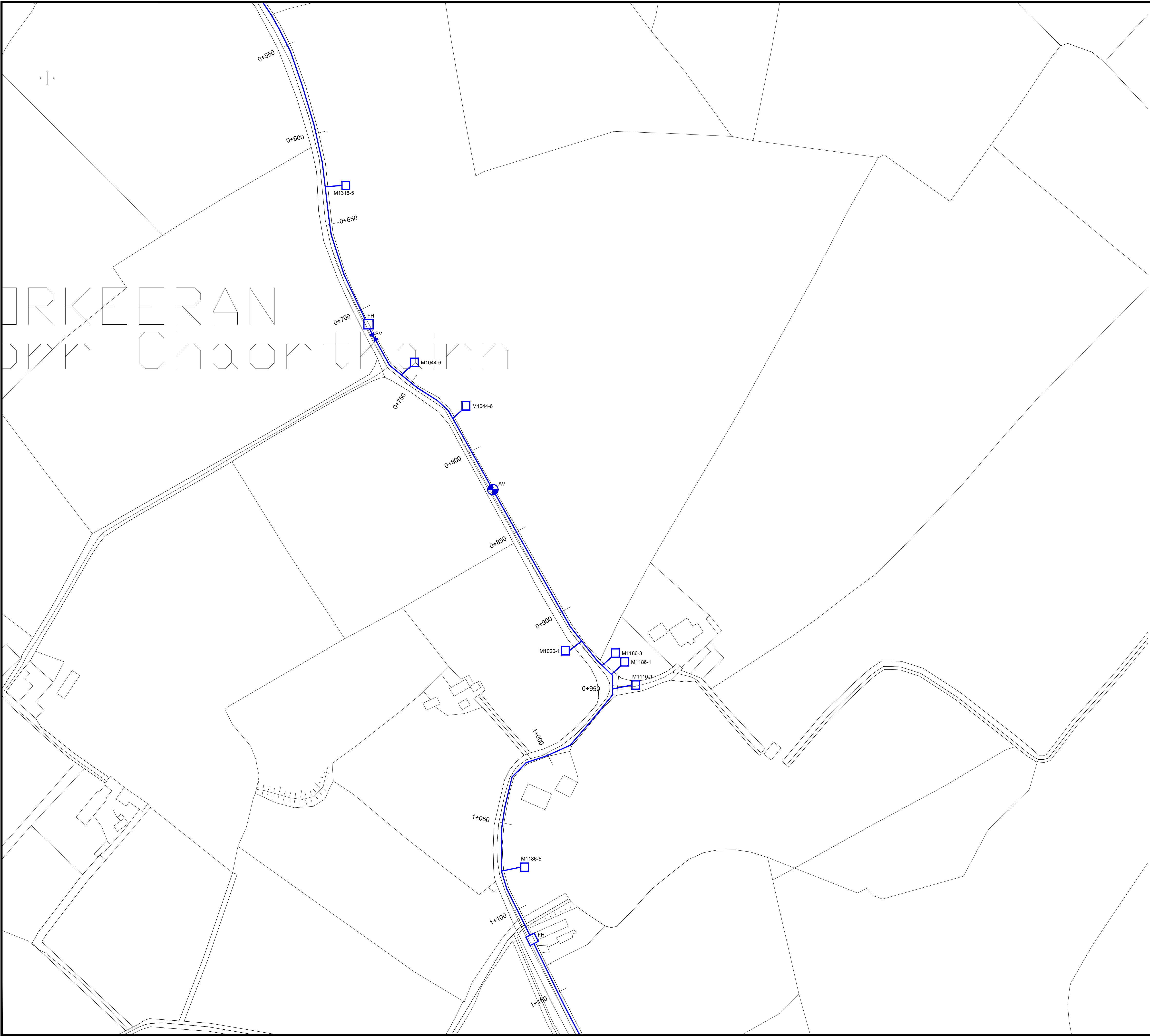
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REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR TENDER			
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PROJECT: KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHSTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN DRUMBOORY UPGRADE			
SCALE: 1:1000		(A1)	
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0452			REV: C01



- NOTES:**
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 2. ALL LEVELS ARE IN METRES O.D. MALIN.
 3. THE POSITION OF EXISTING SERVICES INsofar AS THEY ARE KNOWN AND AS SHOWN ON THE DRAWINGS MAY NOT BE ACCURATE AND MERELY INDICATE THEIR PRESENCE IN THE WORKING AREA.
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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0505.
- LEGEND**
- | | |
|---------------------|-----|
| PROPOSED WATERMAIN | |
| SCOUR VALVE | ScV |
| SLUICE VALVE | SV |
| AIR VALVE | AV |
| FIRE HYDRANT | FH |
| BULK METER | BM |
| PROPOSED CONNECTION | M14 |

Enclosure

C01	AT	ISSUED FOR TENDER	06.07.2026
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR TENDER			
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PROJECT: KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHSTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN DRUMBOORY UPGRADE			
SCALE: 1:1000		(A1)	
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0453			REV: C01

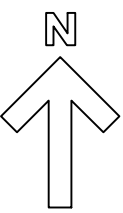
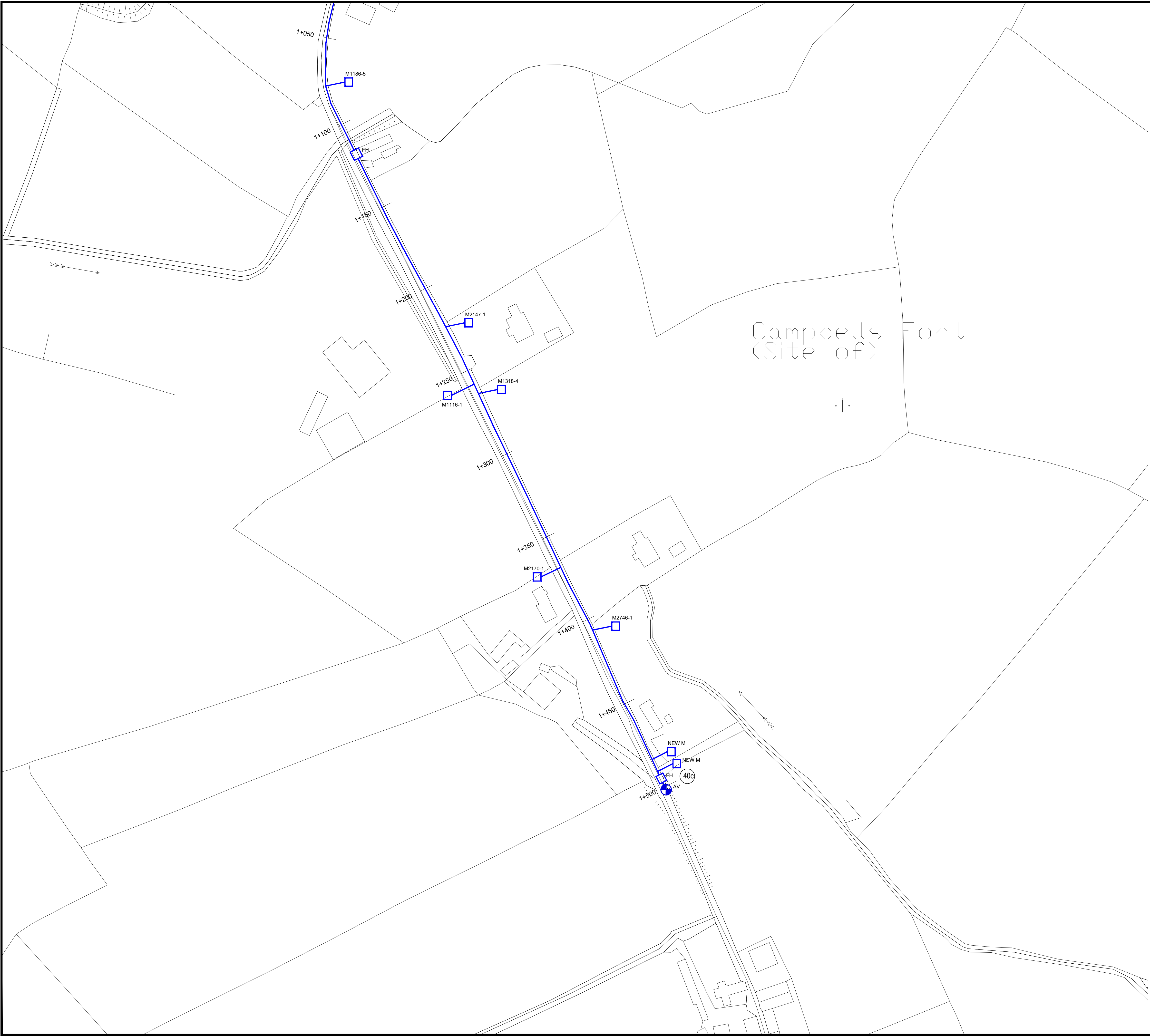


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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0505.

LEGEND

PROPOSED WATERMAIN	
SCOUR VALVE	ScV
SLUICE VALVE	SV
AIR VALVE	AV
FIRE HYDRANT	FH
BULK METER	BM
PROPOSED CONNECTION	M14

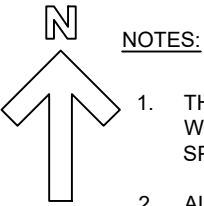
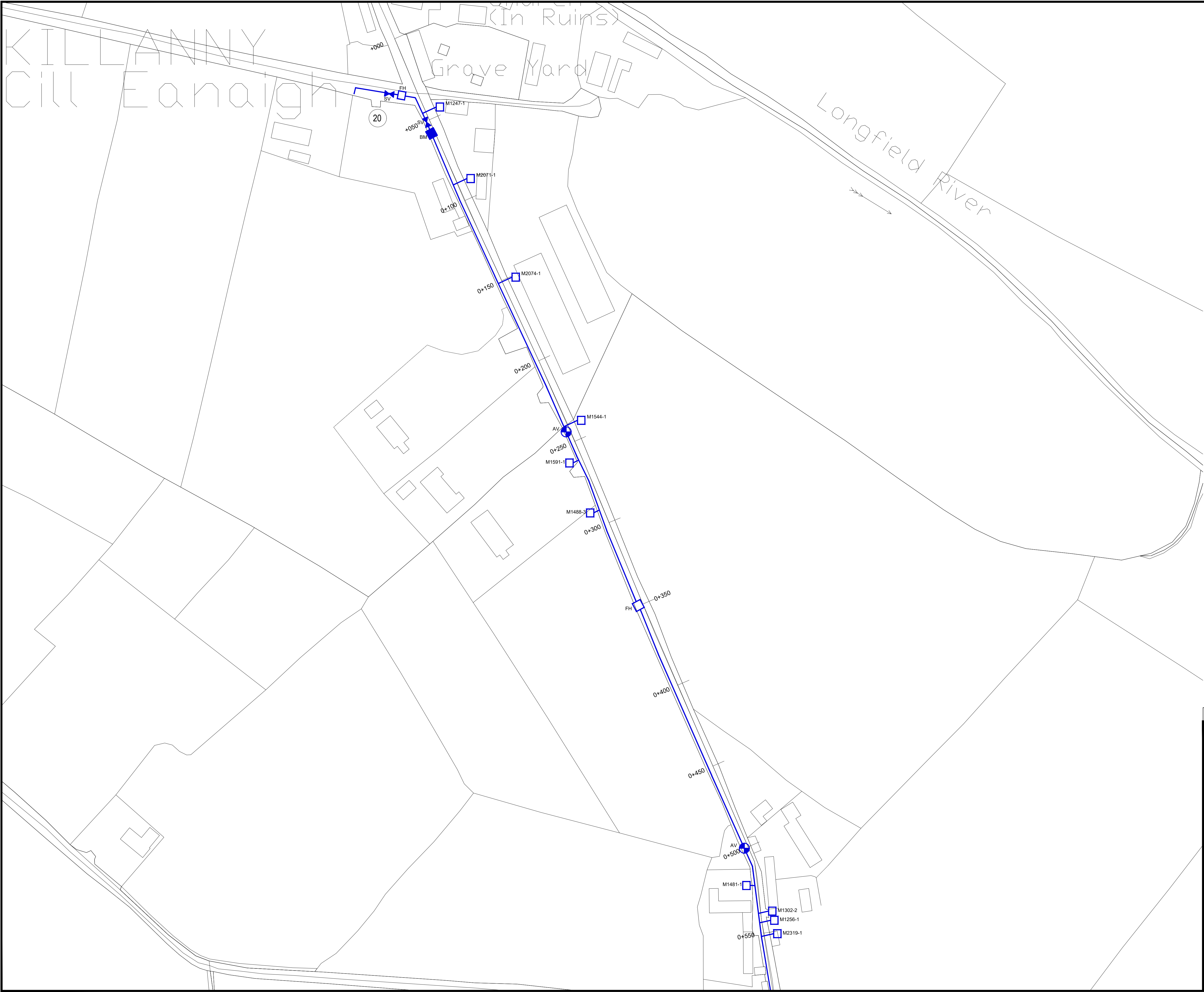
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PROJECT: KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN DRUMBOORY UPGRADE			
SCALE: 1:1000			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0454			REV: C01



- NOTES:**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0505.

LEGEND	
PROPOSED WATERMAIN	
SCOUR VALVE	ScV
SLUICE VALVE	SV
AIR VALVE	AV
FIRE HYDRANT	FH
BULK METER	BM
PROPOSED CONNECTION	M14

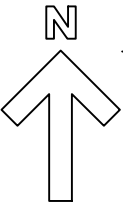
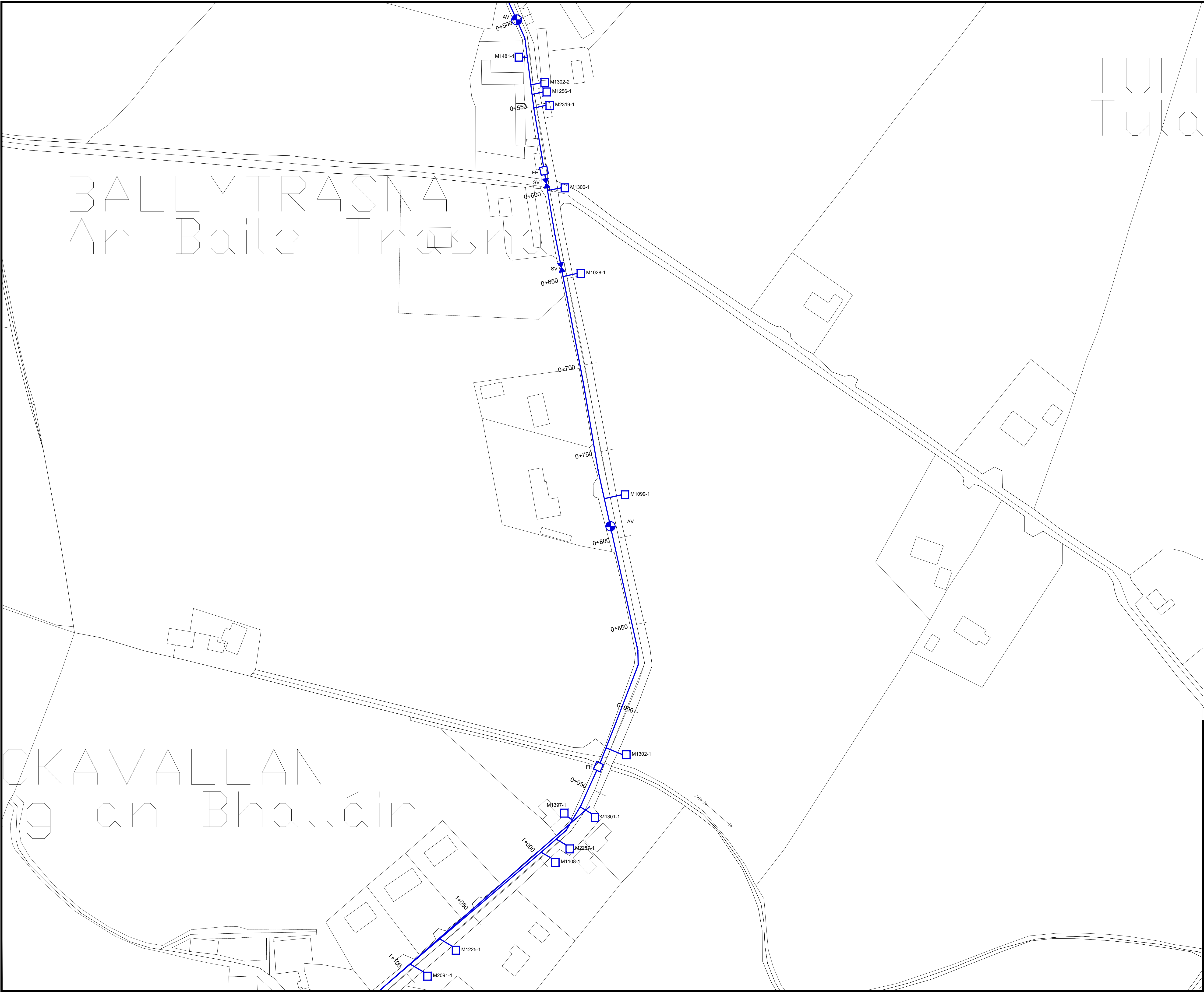
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PROJECT: KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN DRUMBOORY UPGRADE			
SCALE: 1:1000		(A1)	
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0455			REV: C01



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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0503.

LEGEND	
PROPOSED WATERMAIN	
SCOUR VALVE	ScV
SLUICE VALVE	SV
AIR VALVE	AV
FIRE HYDRANT	FH
BULK METER	BM
PROPOSED CONNECTION	M14

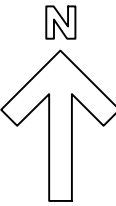
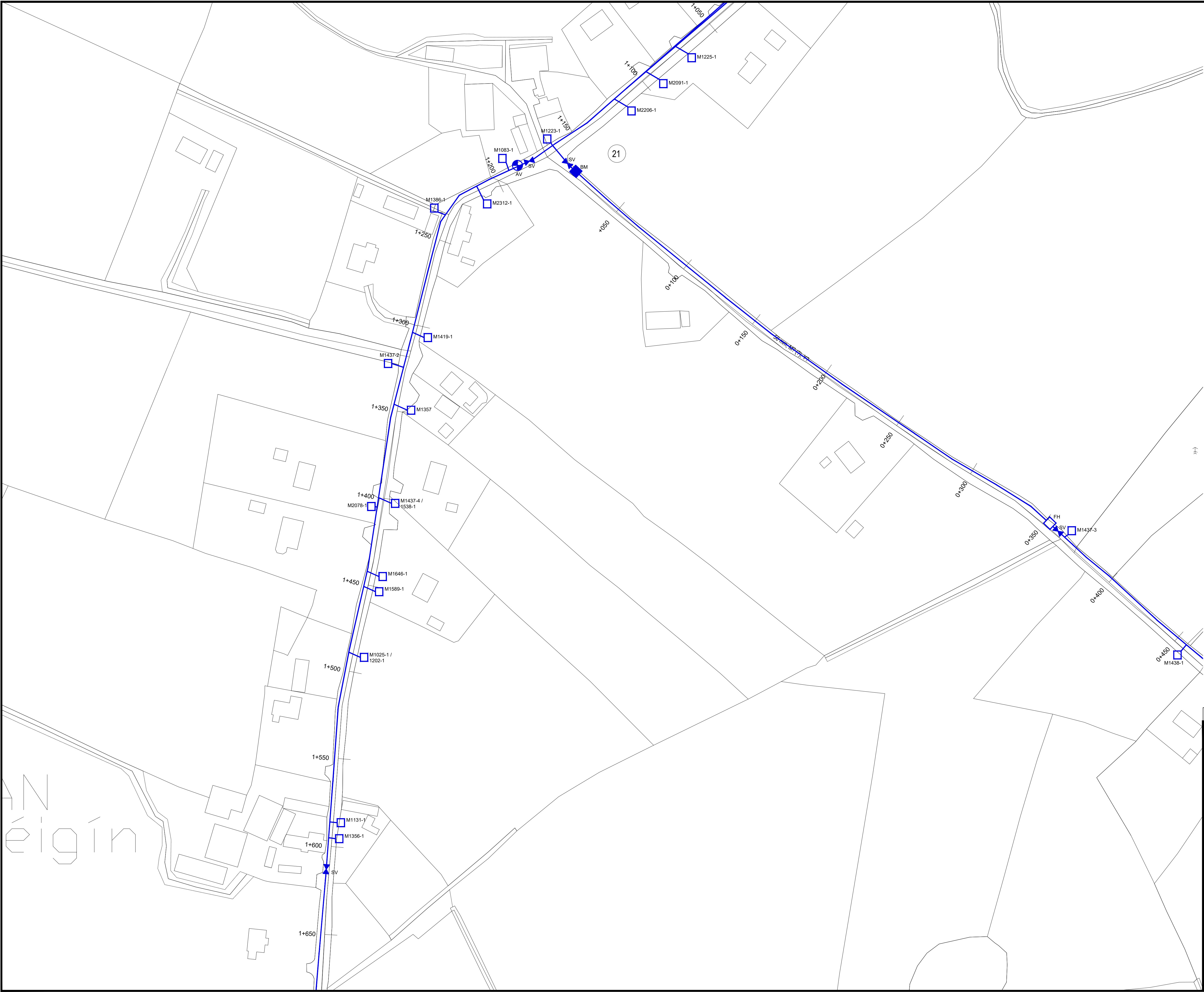
C01	AT	ISSUED FOR TENDER	06.07.2026
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PROJECT: KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHSTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN McCONNANS UPGRADE			
SCALE: 1:1000		(A1)	
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0460			REV: C01



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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0503.

LEGEND	
PROPOSED WATERMAIN	
SCOUR VALVE	ScV
SLUICE VALVE	SV
AIR VALVE	AV
FIRE HYDRANT	FH
BULK METER	BM
PROPOSED CONNECTION	M14

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PROJECT: KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN McCONNANS UPGRADE			
SCALE: 1:1000		(A1)	
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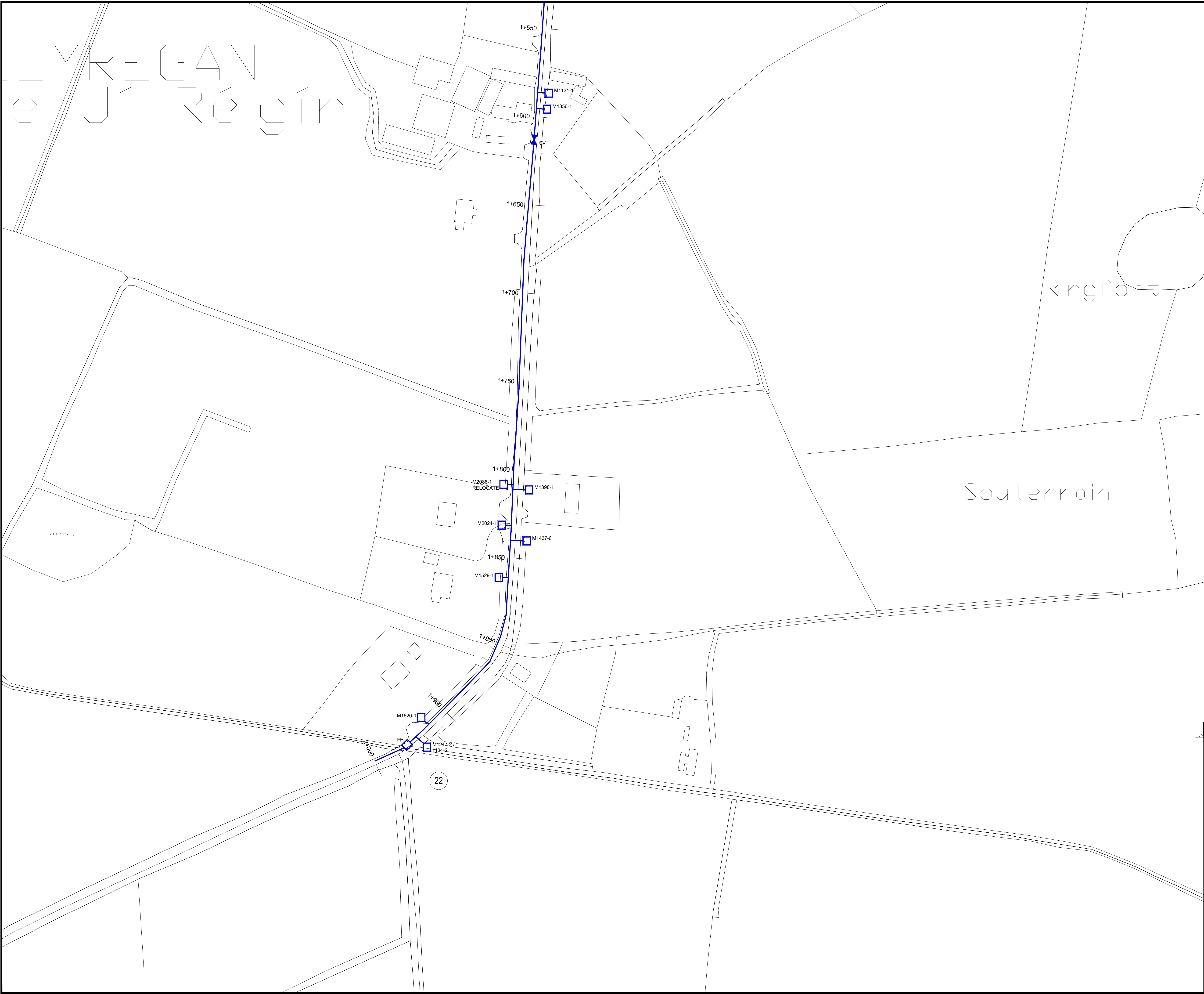


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 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
 7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0503.

LEGEND

PROPOSED WATERMAIN	
SCOUR VALVE	ScV
SLUICE VALVE	SV
AIR VALVE	AV
FIRE HYDRANT	FH
BULK METER	BM
PROPOSED CONNECTION	M14

C01	AT	ISSUED FOR TENDER	06.07.2026
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PROJECT: KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHTOWN GWS			
DRAWING TITLE: LAYOUT OF PROPOSED WATERMAIN McCONNANS UPGRADE			
SCALE: 1:1000			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0462			REV: C01



N

↑

NOTES:

1.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.

2.

ALL LEVELS ARE IN METRES O.D. MALIN.

3.

THE POSITION OF EXISTING SERVICES INsofar AS THEY ARE KNOWN AND AS SHOWN ON THE DRAWINGS MAY NOT BE ACCURATE AND MERELY INDICATE THEIR PRESENCE IN THE WORKING AREA.

4.

FOR BEDDING DETAILS REFER TO DRAWING 0500.

5.

FOR VALVE CHAMBER DETAILS REFER TO DRAWING 0501

6.

FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.

7.

FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0503.

LEGEND

PROPOSED WATERMAIN

ScV

SCOUR VALVE

SV

SLUICE VALVE

AV

AIR VALVE

FH

FIRE HYDRANT

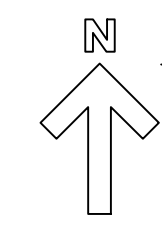
BM

BULK METER

M14

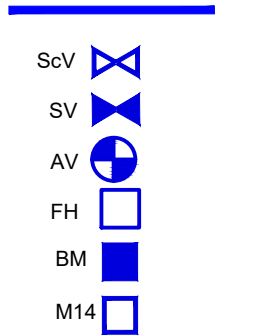
PROPOSED CONNECTION

C01	AT	ISSUED FOR TENDER	06.07.2026
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS:		ISSUED FOR TENDER	
CHECKED BY:	REVIEWED BY:	APPROVED BY:	
LC	BP	NMcc	
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TJ O'CONNOR & ASSOCIATES CONSULTING ENGINEERS CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18. Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie			
PROJECT:		KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHTOWN GWS	
DRAWING TITLE:		LAYOUT OF PROPOSED WATERMAIN McCONNANS UPGRADE	
SCALE:		1:1000	(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0463			REV: C01



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
2. ALL LEVELS ARE IN METRES O.D. MALIN.
3. THE POSITION OF EXISTING SERVICES INSOFAR AS THEY ARE KNOWN AND AS SHOWN ON THE DRAWINGS MAY NOT BE ACCURATE AND MERELY INDICATE THEIR PRESENCE IN THE WORKING AREA.
4. FOR BEDDING DETAILS REFER TO DRAWING 0500.
5. FOR VALVE CHAMBER DETAILS REFER TO DRAWING 0501
6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.
7. FOR MISCELLANEOUS DETAILS REFER TO DRAWING 0503.

PROPOSED CONNECTION



PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
 26010-TJOC-XX-XX-DR-C-0464



TJ **O'CONNOR**
& ASSOCIATES
CONSULTING ENGINEERS

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT:	KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT
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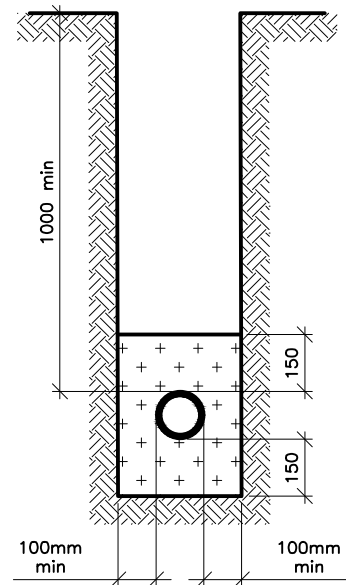
CLIENT: KILLANNY/REAGHSTOWN GWS

DRAWING TITLE:

LAYOUT OF PROPOSED WATERMAIN
McCONNANS UPGRADE

SCALE: 1:1000 (A1)

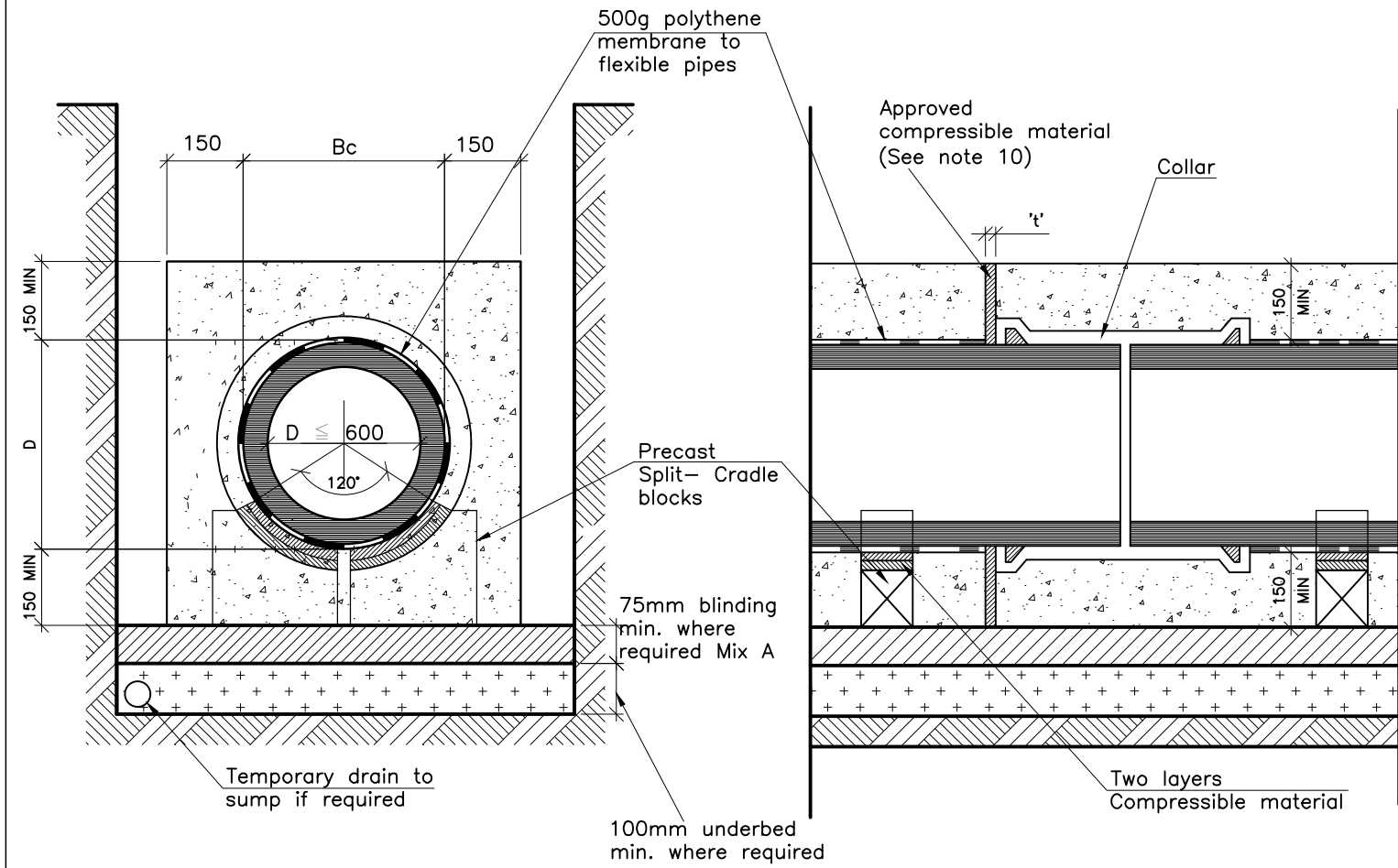
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
 26010-TJOC-XX-XX-DR-C-0464



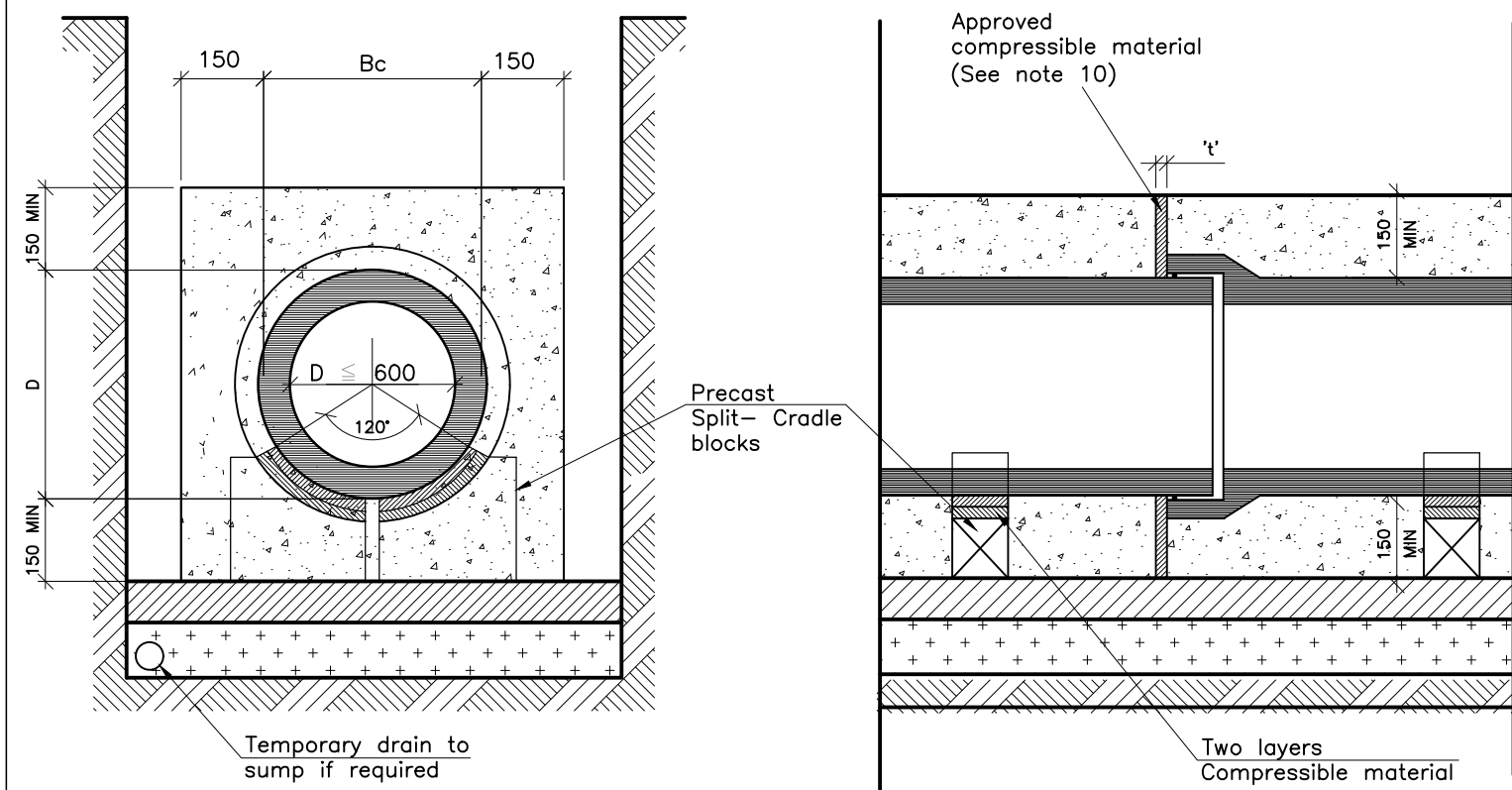
MACHINE CUT, TRENCH BOTTOM
CLASS E – For 110 AND 63mmO.D.
PE 100 SDR11 Pipes

NOTE : The Contractor shall allow for greater trench widths as required as per his Method of Construction and also to accommodate equipment, as per Section 6.5 of the Guidelines for the Opening, Backfilling and Reinstatement of Openings in Public Roads (Apr.2017). All costs associated with Trench Widths shall be deemed to be included in the Contract Sum.

Detail 1

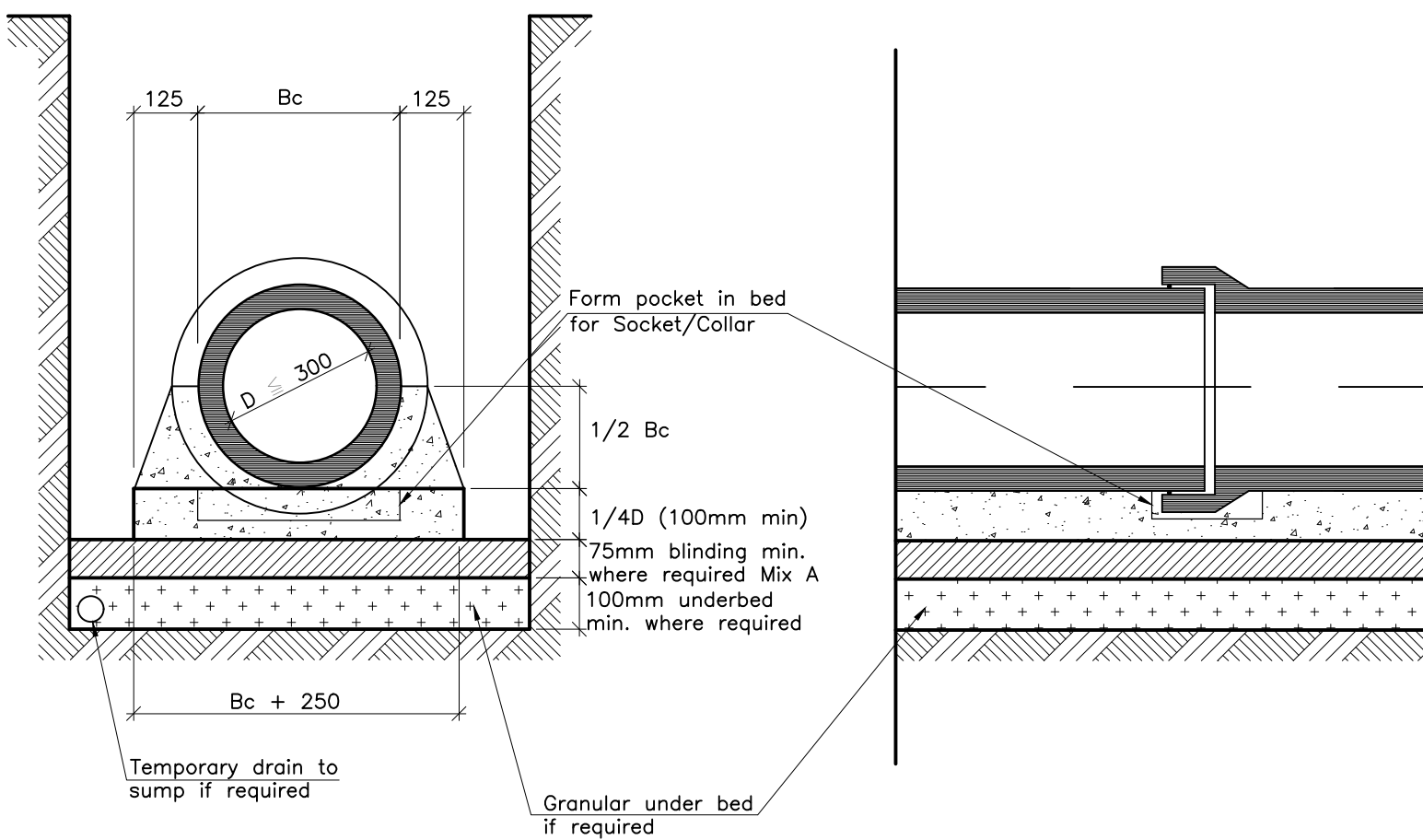


PIPES WITH COLLAR JOINTS



SOCKET AND SPIGOT PIPES
CONCRETE SURROUND

Detail 3



CONCRETE BED & HAUNCH

Detail 4

1. CONCRETE ARCHES, CRADLES AND SURROUND.

- 1.1. Concrete shall be Mix 'B', 30 N/mm² concrete with 20mm aggregate as described in the Specification.
- 1.2. No backfill, other than the initial 300mm of cover, shall be placed over the pipe until the compressive strength of the concrete has reached 15 N/mm².
- 1.3. The concrete shall be monolithic having no vertical or horizontal construction joints other than one vertical joint perpendicular to the line of the pipe at each pipe joint.
- 1.4. In the case of reinforced concrete cradles and arches the minimum area of steel shall be as follows :-

Nominal bore of pipe	Tranverse [per metre run]	Size [mm]	Longitudinal	Size [mm]
Not exceeding 400mm	400mm ²	10	200mm ²	8
400 – 600mm	800mm ²	12	310mm ²	10
600 – 800mm	1200mm ²	16	470mm ²	10
800 – 1200mm	1600mm ²	20	670mm ²	12
1200 – 1600mm	2000mm ²	20	750mm ²	12

- 1.5. In the case of reinforced concrete cradles and arches the steel reinforcement shall typically be as for cradles and arches with twice the area of steel unless specifically detailed otherwise.

2. BLINDING

- 2.1. 75mm minimum of Mix 'A' concrete blinding shall be used in general under concrete beds, surrounds and cradles. In rock the blinding may be dispensed with on the Engineer's instruction.

3. TYPE A GRANULAR BEDDING MATERIAL

- 3.1. Type A granular bedding material shall consist of rounded gravel which shall comply with the grading limits described in the Specification.
- 3.2. The compaction factor of Type A granular bedding material shall be determined in accordance with the Specification and extra care shall be taken with the compaction of material having a compaction factor greater than 0.1.

- 4.1. Where trench conditions dictate, or where instructed by the Engineer, a Type A granular underbed 100mm (min) deep shall be placed on trench bottom.

5. DIMENSIONS

- 5.1. Dimension 'X' : Denotes the thickness of the granular surround used over both barrel and socket/collar (if any) of pipes and shall be 150mm .

- 5.2. D – Denotes the nominal diameter of a pipe
- 5.3. Bc – Denotes the external diameter of a pipe

6. TYPE B SELECTED FILL MATERIAL

- 6.1. Type B selected fill shall be a uniform non-cohesive readily compacted material free from tree roots, vegetable matter, building rubbish and frozen soil and excluding clay lumps retained on a 75mm sieve and stones retained on a 25mm sieve.
- 6.2. Type B selected fill shall, consist of selected material removed from the trench excavations, screened if necessary, or if the excavated material is unsuitable it shall consist of suitable imported material.

7. WATER STOPS IN PIPE TRENCHES

- 7.1. In granular bedding and/or backfill, clay dams 300mm long shall be provided across the full trench and for the complete depth of the bedding and/or fill at intervals not exceeding 50m as described in the Specification.

8. TEMPORARY DRAIN

- 8.1. Temporary open jointed drains (75mm diam.) shall be placed in granular bedding and/or underbed where required.

9. PRECAST SUPPORT BLOCKS

- 9.1. Precast concrete support blocks complete with compressible pads consisting of two layers of Bitumen Damp-Proof sheeting complying with BS 743 Type 5, shall be used under pipes which require concrete Bed and Haunch, Cradle or Surround as set out in the Specification.

10. CONCRETE BEDDING JOINTS

- 10.1. Joints shall be formed in concrete Beds and Haunches, Cradles, Arches and Surrounds as described in the Specification and as detailed hereunder.

NOMINAL BORE OF PIPE (mm)	THICKNESS OF 2 LAYER COMPRESSIBLE FILLER 'Y' (mm)
LESS THAN 450	18
450 – 1200	36
EXCEEDING 1200	54

11. RIGID PIPES

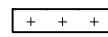
- 11.1. For the purpose of this drawing rigid pipes shall include Concrete (Conc.) Asbestos Cement (A.C.), and Vitrefied Clayware (V.C.) Pipes.
- 11.2. All types of bedding and surrounds may be used with rigid pipes.

12. FLEXIBLE PIPES

- 12.1. For the purpose of this drawing flexible pipes shall include Polyvinyl Chloride (PVC), Acrylonitrile Butadiene Styrene (ABS), Glass Reinforced Plastic (GRP), Polyethylene (P.E), Ductile Iron (D.I.) and Steel pipes.
- 12.2. Concrete bed, haunch and surrounds and Class E bedding are permissible for use with flexible pipes. Flexible pipes in excess of 150mm in diameter shall not be used, except where expressly specified, or permitted by the Engineer.

LEGEND

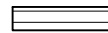
TYPE A GRANULAR BEDDING MATERIAL SHOWN THUS



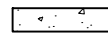
TYPE B FILL SHOWN THUS



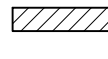
EXCAVATED MATERIAL LOOSELY FILLED SHOWN THUS



CONCRETE SHOWN THUS



CONCRETE BLINDING SHOWN THUS
(75mm min. unless specified elsewhere)

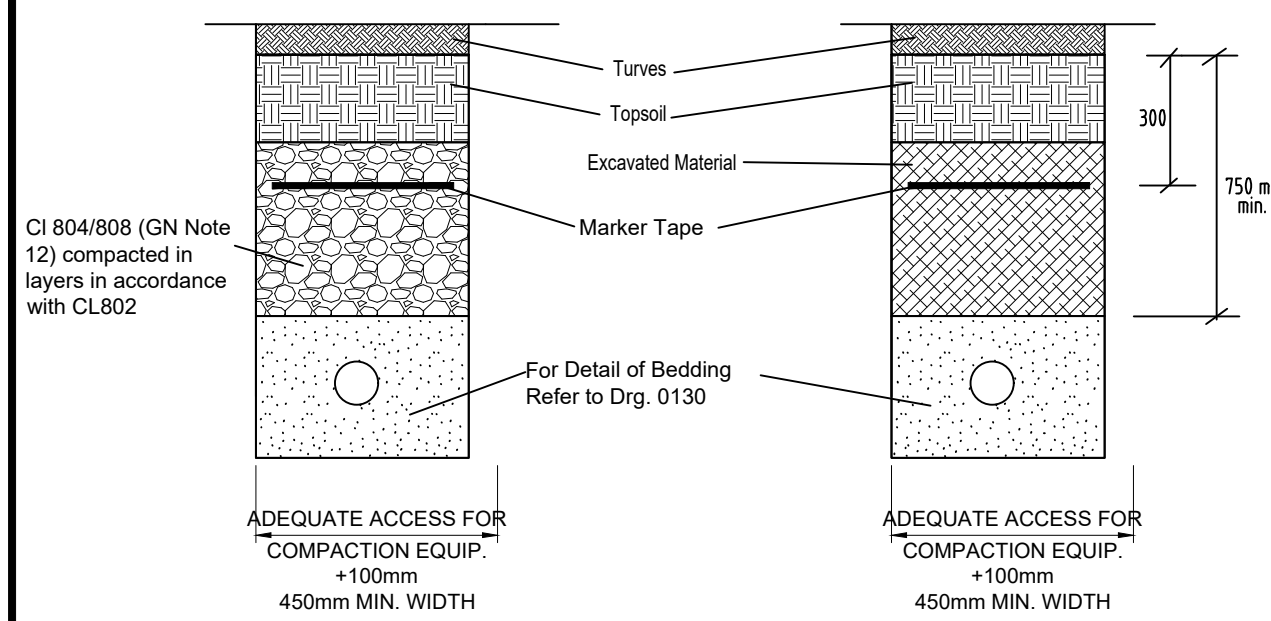


THIS DRAWING MUST BE READ IN CONJUNCTION WITH
THE PIPEWORK SECTIONS OF THE SPECIFICATION

C01	AT	ISSUED FOR TENDER	06.07.2026
REV	SUIT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR TENDER			
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PROJECT: KILLANY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHSTOWN GWS			
DRAWING TITLE: STANDARD BEDDING DETAILS FOR PIPES			
SCALE: NTS			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0500			REV: C01

C01	AT	ISSUED FOR TENDER	06.07.2026
REV	SUIT	DESCRIPTION	DATE
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CHECKED BY: LC	REVIEWED BY: BP	APPROVED BY: NMCC	
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PROJECT:		KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHSTOWN GWS	
DRAWING TITLE:		STANDARD VALVE CHAMBER DETAILS	
SCALE: NTS			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0501			REV: C01

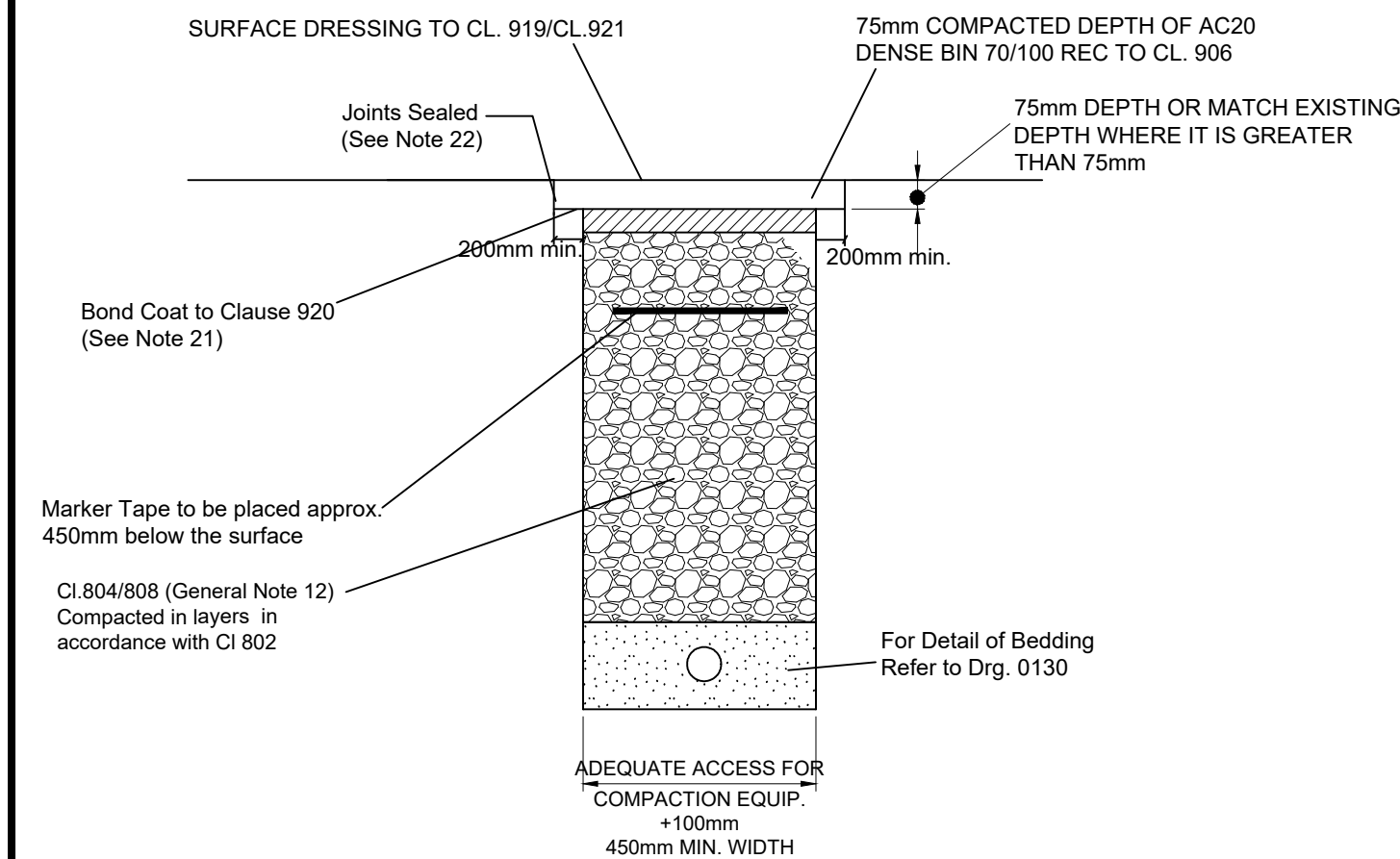
To apply when nearest point of trench is over one metre from paved edge of a national or regional road or over 0.5 metres from paved edge of a local road.



Notes 1-17 listed in General Reinstatement Notes apply.

18	Prior to excavation, all grass areas are to be cut into turves which are to be carefully stacked and reused within one week of cutting during the period 1st April to 31st August or within two weeks of cutting during the period 1st September to 31st October. Turves cut during the period 1st November to 31st March are to be stored in this period or where turves from grass area are not suitable, imported turves approved by the road authority are to be used. Where the topsoil and subsoil is permitted by the road authority the following shall apply: - Prior to sowing or filling, an approved fertilizer shall be evenly distributed on the topsoil at a rate of not less than 100g per sq. metre - The areas to be grassed shall be covered with topsoil to a minimum depth of 100mm which shall be reduced to a fine finish, free from stones and debris with any dimension greater than 35mm. The topsoil shall be graded and lightly compacted to 100mm depth or existing depth - whichever is greater. Any outstanding debris or stones exceeding 25mm dimension shall be removed. - Pay due regard to the season and weather condition before sowing grass seed. Immediately prior to sowing the grass seed, a 100g/l solution of 100g/l of 50% Solignum 50% granule grass seed shall be carried out by an even distribution, using a blend of (per Hectare) 170kg Manure Ryegrass and 13kg Oatw Clover or other mix as specified by the road authority. For slopes in excess of 10 degrees, the seed shall be applied at 50% of the above rate. Lightly rake into the surface of the topsoil. The area shall be watered every second day. Drainage channels shall be marked on the carriageway, mapped and shall be fully restored in conjunction with verge reinstatement to ensure that surface water runoff is discharged from the road surface. All temporary reinstatement as detailed above shall be carried out immediately after backfilling the Wharf all settlement has taken place or after a three month period, whichever is the greater, the trench shall be reinstated to the topsoil to its original condition. Where works are in close proximity to trees/roots compliance with BS 5837-2012 is required.
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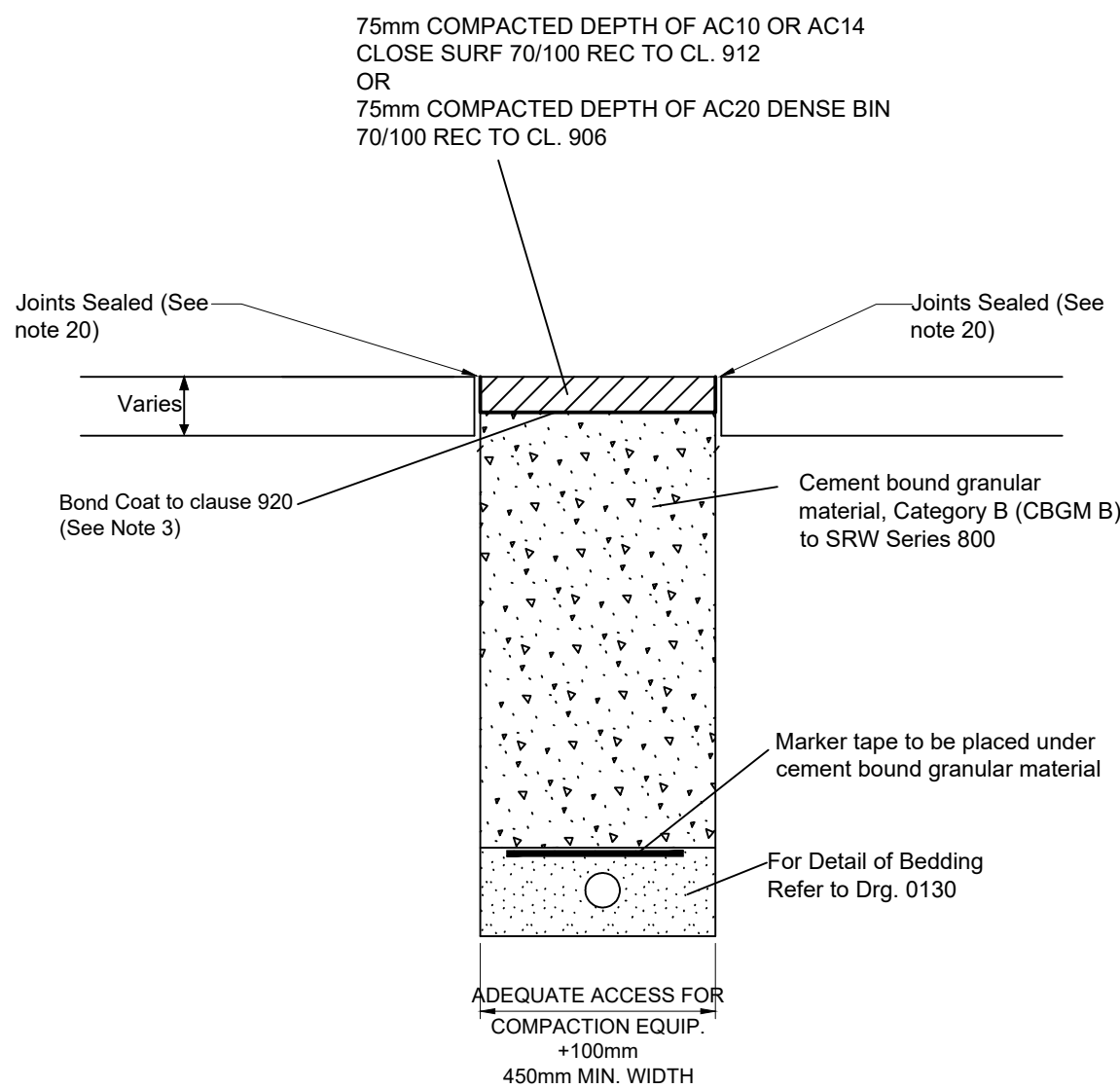
PERMANENT REINSTATEMENT
GRASS VERGES, MEDIANS, FIELDS AND LAWNS



Notes 1-17 listed in General Reinstatement Notes apply

18. As a minimum the reinstatement layer shall match existing bound AC layers or depths shown. Where a temporary surface has been used, material shall be placed out to the depth specified in this drawing. The new permanent surface shall be machine laid and mechanically compacted with a vibrating roller.
19. Where the trimmed edge of an excavation is within 400mm* of a joint/edge, inwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly. (* increase to 800mm where this is pre-existing practice).
20. Clause 806 or Cement Bound Granular Material surface to be sprayed per Clause 920 prior to application of Asphalt Concrete Layer.
21. Joint seal shall be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50 - 70 pen to be applied to all vertical cuts in accordance with BS. 5949:97 prior to application of bituminous materials.
22. For roads without an Asphalt Concrete surface (e.g. may be Cl. 804 with double Surface Dressing), the reinstatement shall be applied to the full width of the excavation and the Asphalt Concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
23. Where road widths are greater than 5.5 metres and the works are confined to one half of the road, then the Surface Dressing shall only be applied over a half road width. Where the road widths are less than 5.5 metres, Surface Dressing should be applied over the full road width. Note: Surface Dressing does not include full width reinstatement unless the structural AC layer is porous.
24. Guard must be laid to the seasonal restrictions affecting Surface Dressing (See IAT Surface Dressing Guidelines).
25. On highly trafficked roads services must have a minimum cover of 750mm.
26. If required by the road authority the trench may be reinstated with a Cement Bound Granular Material.

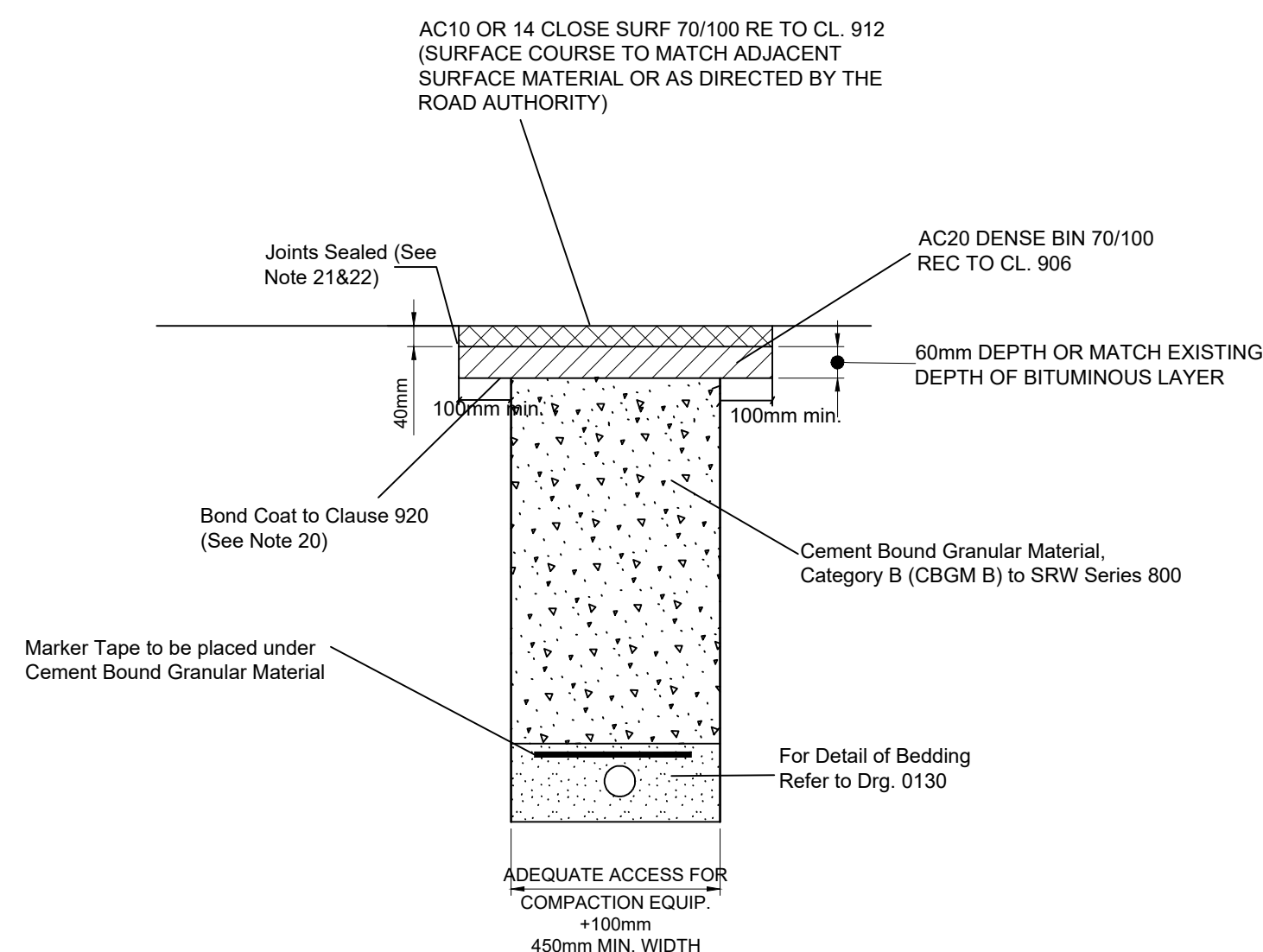
PERMANENT REINSTATEMENT LONGITUDINAL OPENING IN ROADWAY



Notes 1-17 listed in General Reinstatement Notes apply

18. As a minimum the reinstatement layer shall match existing bound AC layers or depths shown. Cement Bound Granular Material surface to be sprayed per Clause 920 prior to application of Asphalt Concrete Layer.
19. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50 - 70 pen to be applied to all vertical cuts in accordance with B.S. 594/987 prior to application of bituminous materials.
20. Licence Holder must maintain temporary reinstatement to a safe and acceptable standard.
21. Temporary road surface warning signs must be used in accordance with the Traffic Signs Manual (Chapter 8) & RLS 8/2007.
22. Refer to DETAIL 5 for requirements on permanent reinstatement.
23. The coarse aggregate in the surface course Asphalt Concrete shall have a polished stone value of not less than 60.

TEMPORARY REINSTATEMENT (Pavement TRANSVERSE OPENINGS IN ROADWAYS)



Notes 1-17 listed in General Reinstatement Notes apply.

18. Where a temporary surface has been used, material shall be planned out to the depth specified in this drawing
The new permanent surface shall be machine laid and mechanically compacted with a vibrating roller.

19. Where the trimmed edge of an excavation is within 400mm* of a joint/edge, ironwork or other reinstatement,
this trimmed edge shall be extended to include same and the area of reinstatement shall be extended
accordingly * increase to 800mm where the joint is in the middle of the reinstatement.

20. Cement Bound Granular Material surface to be sprayed per Clause 920 prior to application of Asphalt
Concrete Layer.

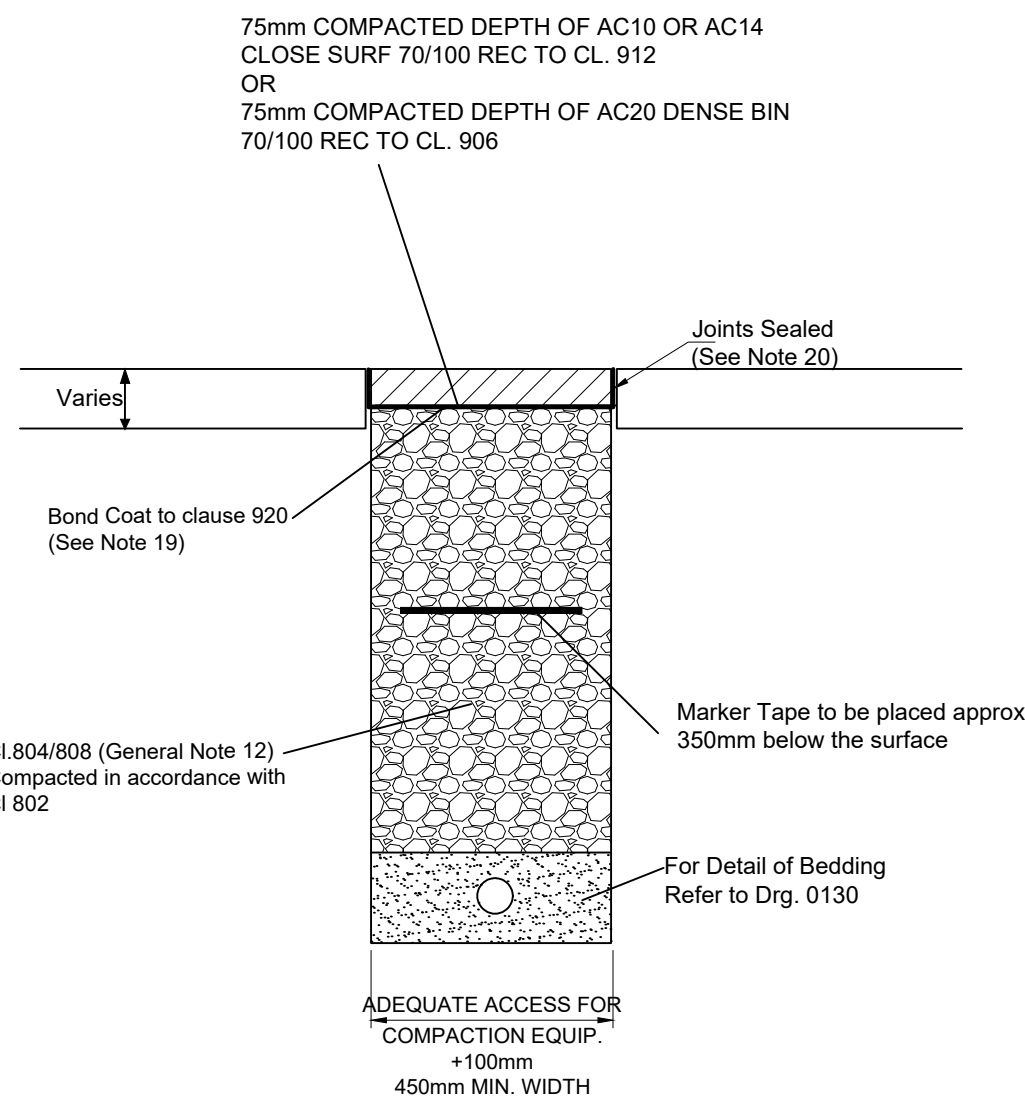
21. Joint sealed to be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50 - 70 pen to be applied to all
vertical joints in accordance with S. 594/987 prior to application of bituminous materials.

22. Joints sealed with hot bitumen and topped with fine sand/grit to get a minimum 55 kN resistance value as
determined by the Portable Skid Resistance Pendulum used in accordance with Road Note 27 and shall not
exceed 3mm depth and 50mm width or other method approved by the road authority.

23. The coarse aggregate in the surface course Asphalt Concrete shall have a polished stone value of not less
than 60.

24. Surface course to match existing surface unless otherwise directed by road authority.

PERMANENT REINSTATEMENT TRANSVERSE OPENING IN ROADWAY



Notes 1-17 listed in General Reinstatement Notes apply

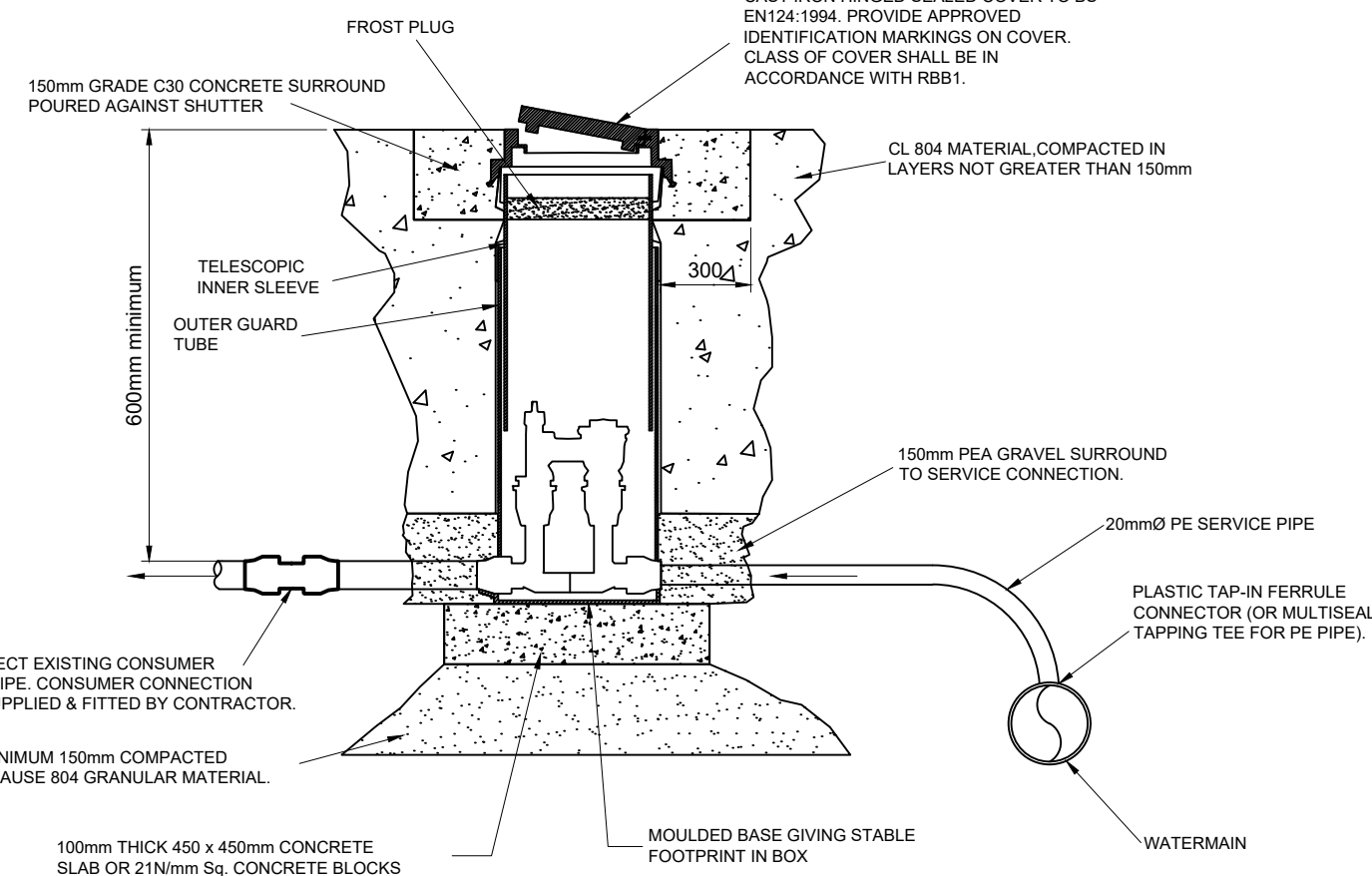
18. As a minimum the reinstatement layer shall match existing bound AC layers & depths shown.
19. Clause 808 surface or Cement Bound Granular Layer to be sprayed per Clause 920 prior to application of
20. Asphalt Concrete Layer.

21. Joint sealant shall be not less than 40/60 pen bitumen binder or cold thermoplastic bitumen 50 - 70 pen to be applied to
22. all vertical cracks in accordance with B.S. 5949/87 prior to application of bituminous materials.

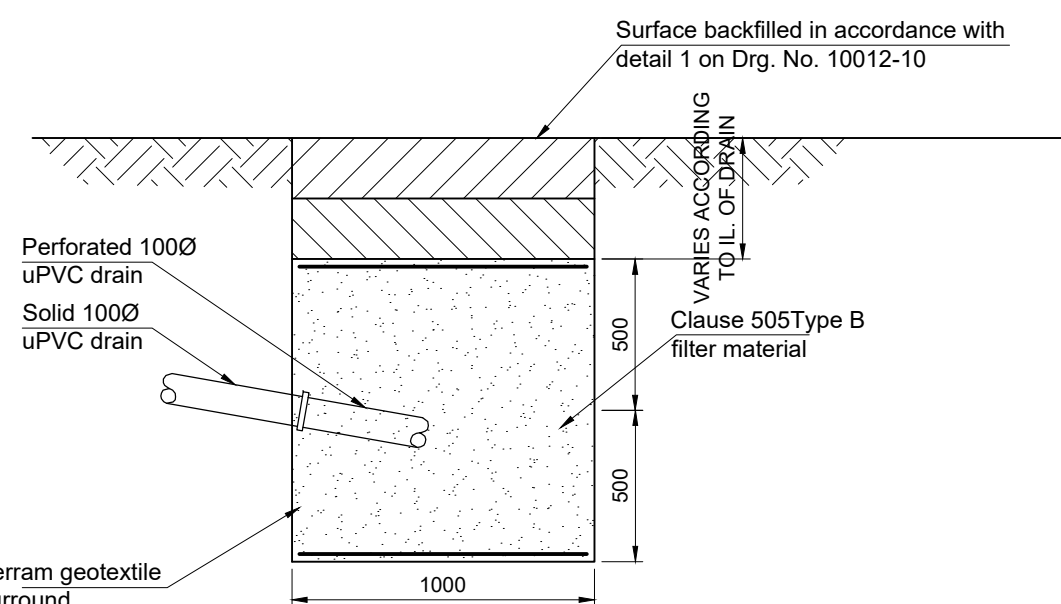
23. Licence Holder must maintain temporary reinstatement to a safe and acceptable standard.
24. Temporary road surface warning signs must be in use in accordance with the Traffic Signs Manual (Chapter 8)
25. & RLIS 8.2007.

26. The loose course aggregate in the surface course Asphalt Concrete shall have a polished stone value of not less
27. than 55.

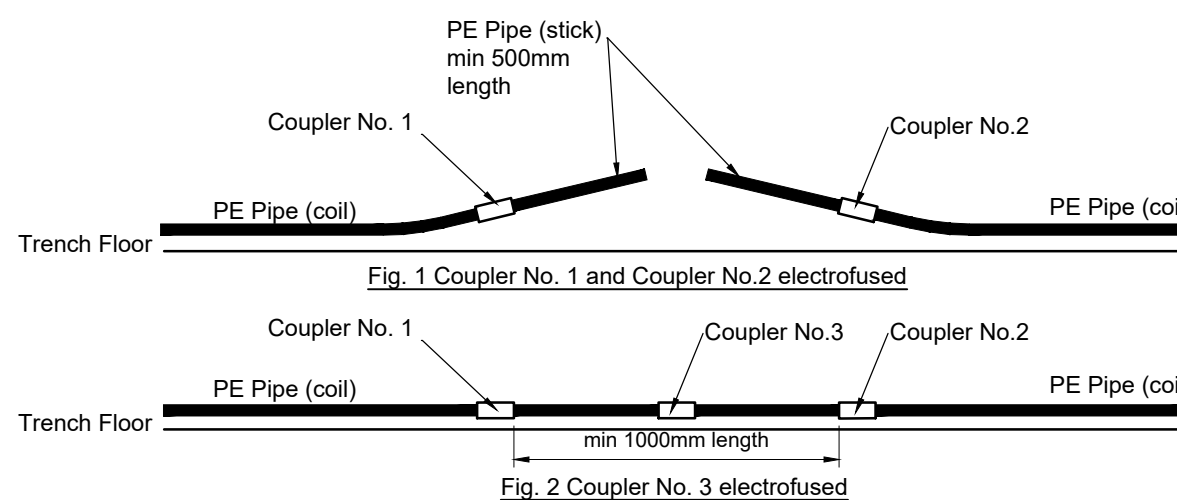
TEMPORARY REINSTATEMENT LONGITUDINAL OPENING IN ROADWAY



N.T.S.



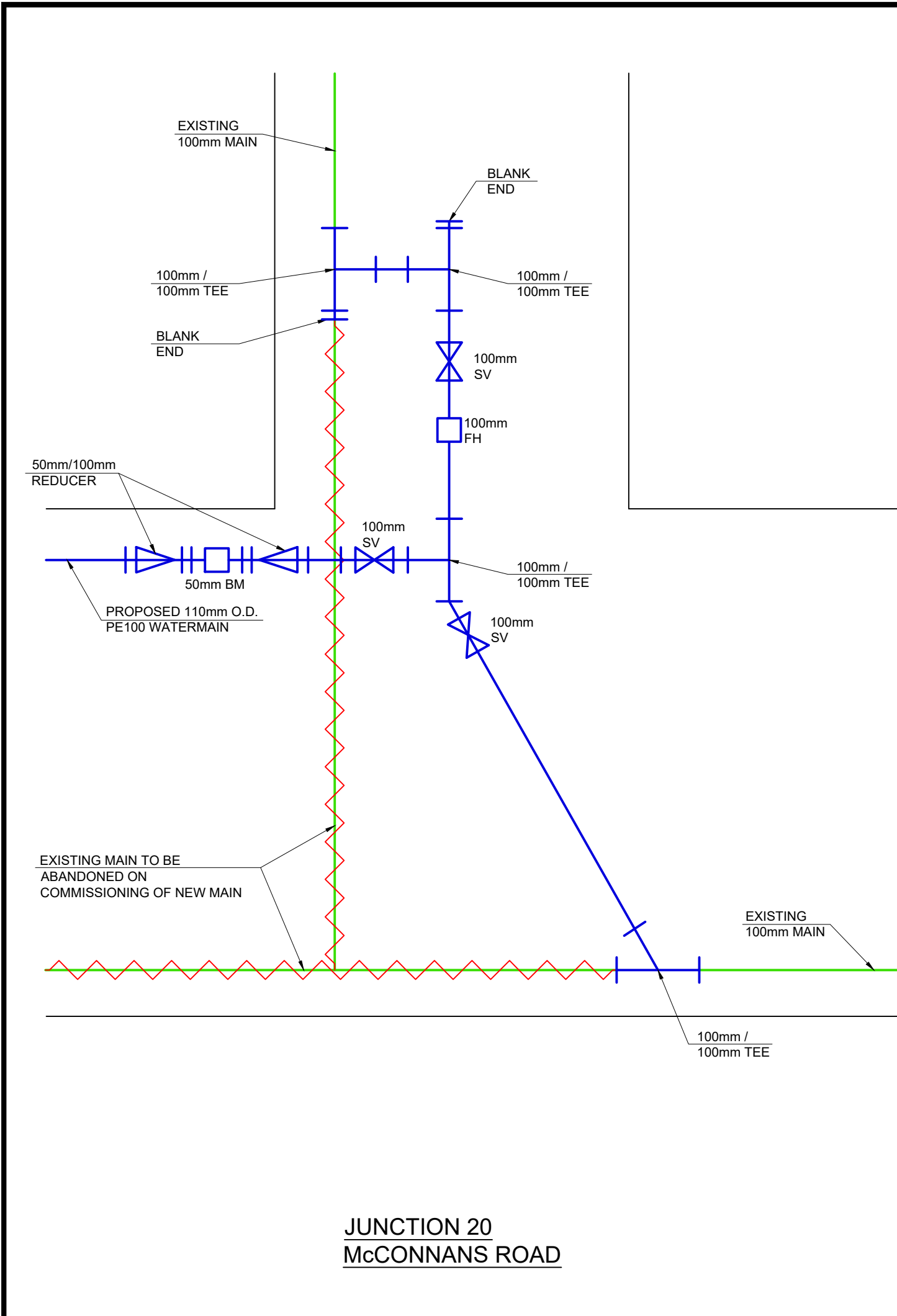
SOAKPIT DETAIL



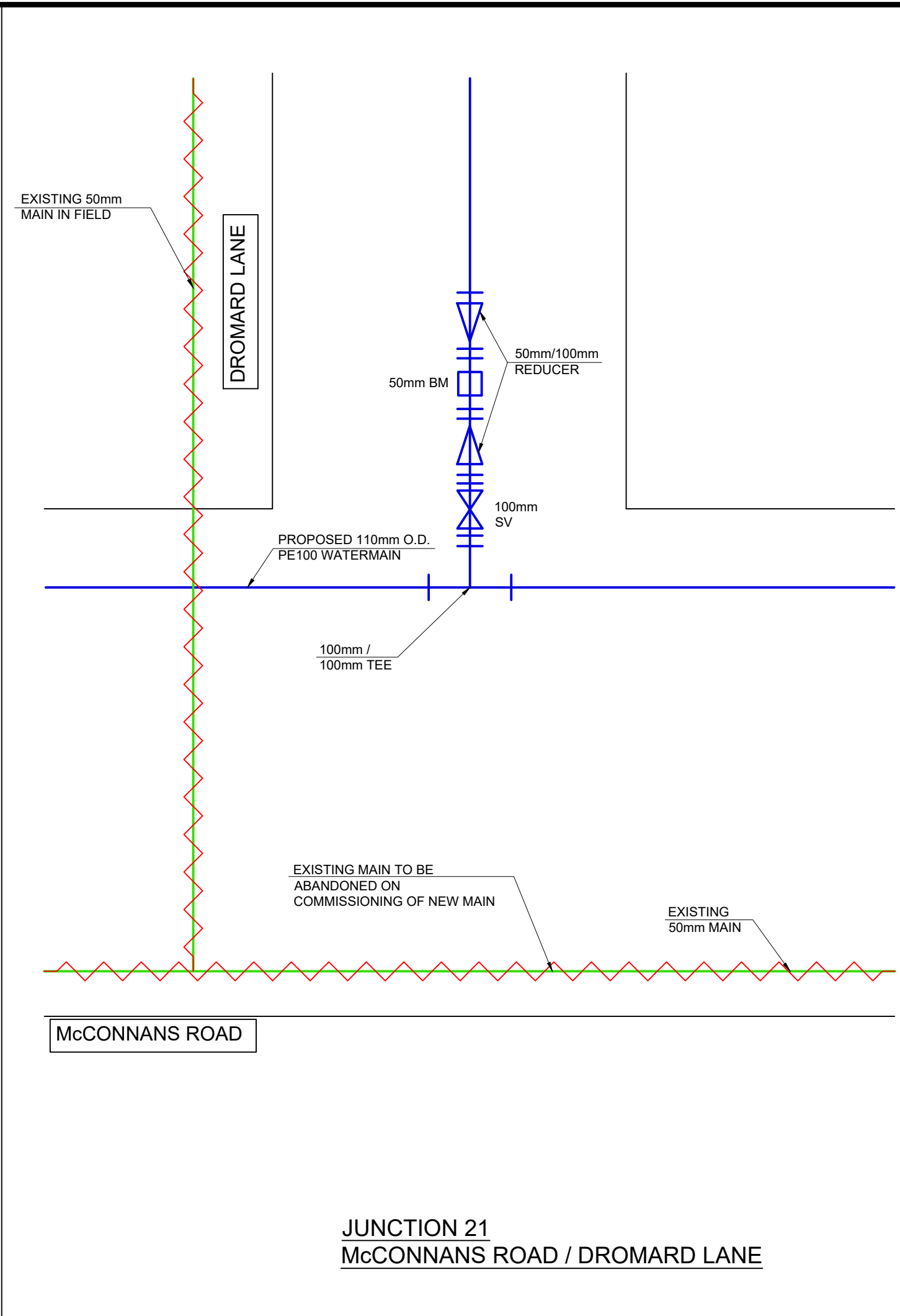
At in-trench connections, and where joining coils of PE pipe with diameter greater than 100mm OD, the Contractor shall be required to use 3 No. electrofusion couplers to electrofuse all joint (see Diagram 1 below). Coupler No. 1 and Coupler No.2 will each be used to join a PE pipe coil to a length of straight stick PE pipe (min length 500mm). Coupler No. 3 will then be electrofused to join the straight stick PE pipe sections. The Contract Sum shall include all costs associated with this constraint.

PE PIPE CONNECTION WITH ELECTROFUSION COUPLERS

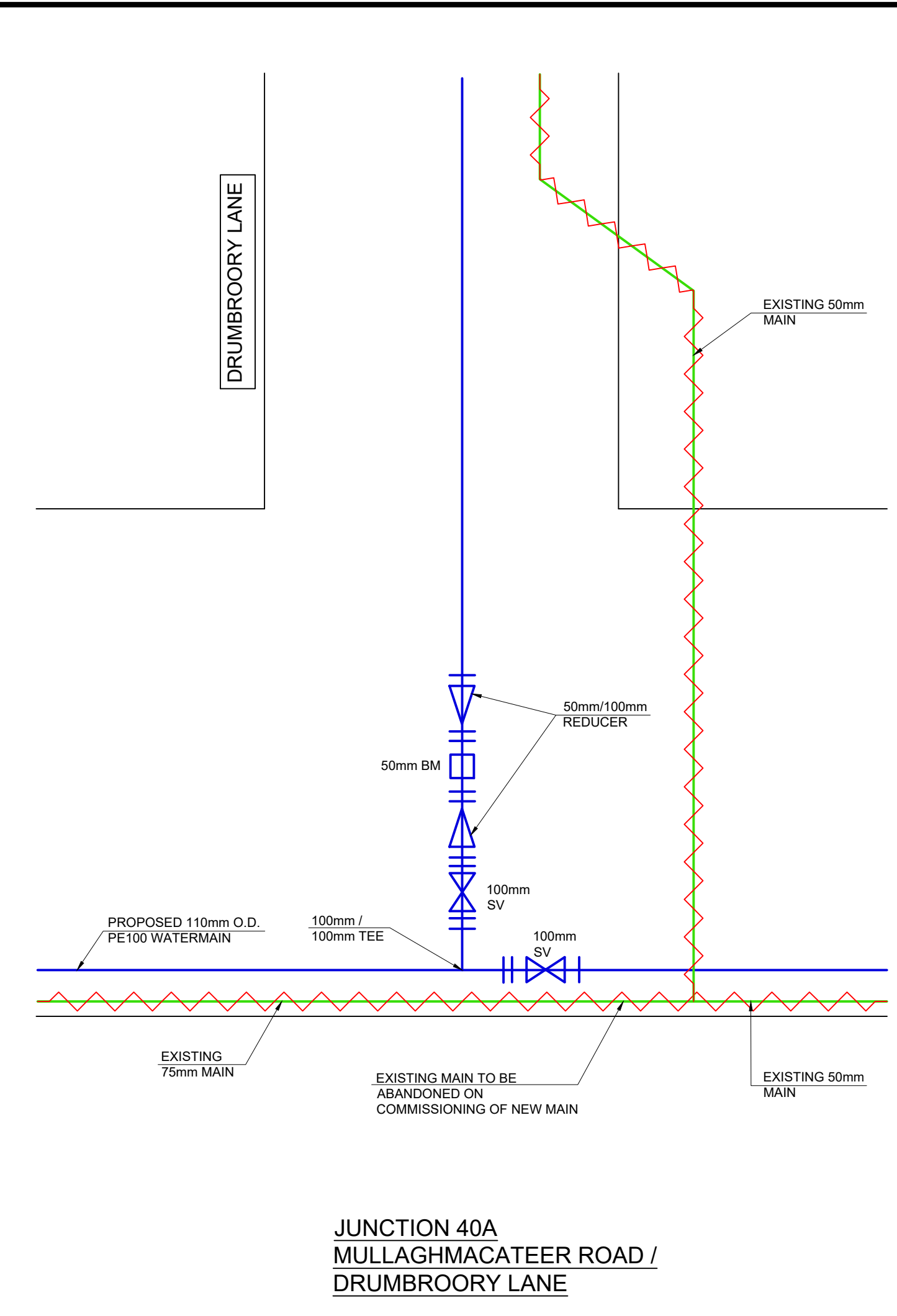
C01	AT	ISSUED FOR TENDER	06.07.2022
REV	SUIT	DESCRIPTION	DATE
DRAWING STATUS:		ISSUED FOR TENDER	
CHECKED BY: LC		REVIEWED BY: BP	APPROVED BY: NMcc
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		O'CONNOR & ASSOCIATES CONSULTING ENGINEERS	
CORRIGS HOUSE, CORRIG ROAD, SANDYFOOT, DUBLIN 18. Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie			
PROJECT:		KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHSTOWN GWS	
DRAWING TITLE:		TRENCH REINSTATEMENT DETAILS	
SCALE: NTS			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0502			REV: C01



JUNCTION 20
McCONNANS ROAD

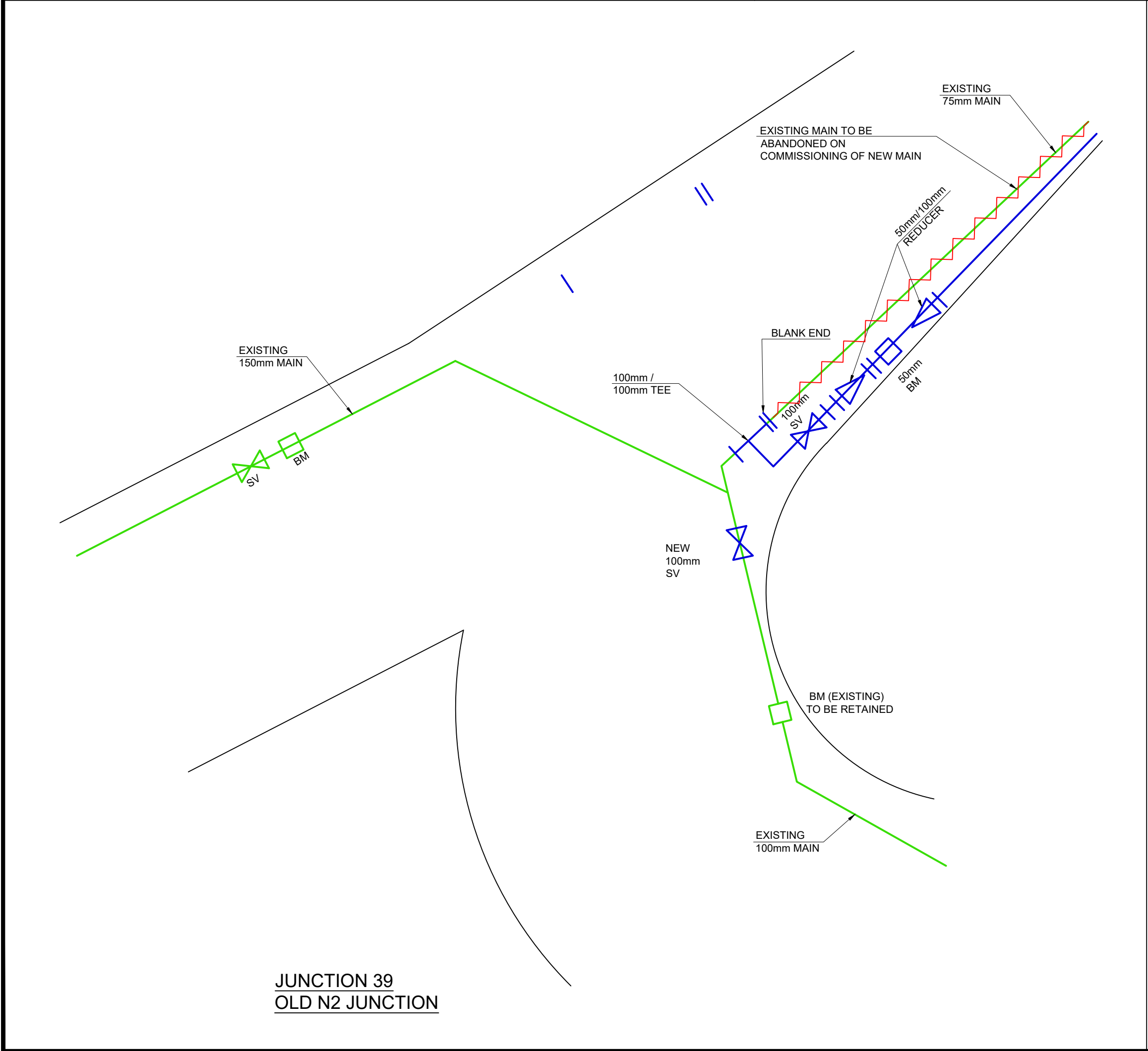


JUNCTION 21
McCONNANS ROAD / DROMARD LANE



JUNCTION 40A
MULLAGHMACATEER ROAD /
DRUMBROORY LANE

- LEGEND:
- EXISTING WATERMAIN —
- PROPOSED WATERMAIN —
- NOTES:
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
 2. ALL LEVELS ARE IN METRES O.D. MALIN.
 3. THE POSITION OF EXISTING SERVICES INSOFAR AS THEY ARE KNOWN AND AS SHOWN ON THE DRAWINGS MAY NOT BE ACCURATE AND MERELY INDICATE THEIR PRESENCE IN THE WORKING AREA.
 4. FOR BEDDING DETAILS REFER TO DRAWING 0500.
 5. FOR VALVE CHAMBER DETAILS REFER TO DRAWING 0501
 6. FOR TRENCH REINSTATEMENT DETAILS REFER TO DRAWING 0502.



JUNCTION 39
OLD N2 JUNCTION

C01	AT	ISSUED FOR TENDER	06.07.2026
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PROJECT: KILLANNY/REAGHTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY/REAGHTOWN GWS			
DRAWING TITLE: MISCELLANEOUS DETAILS			
SCALE: NTS			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0505			REV: C01