

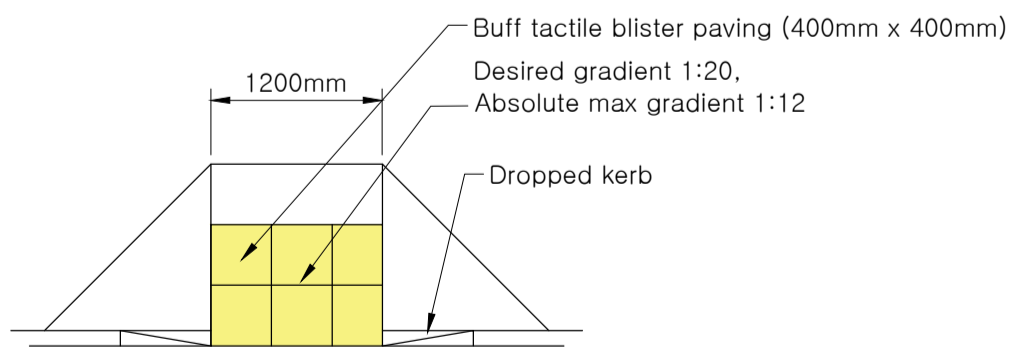
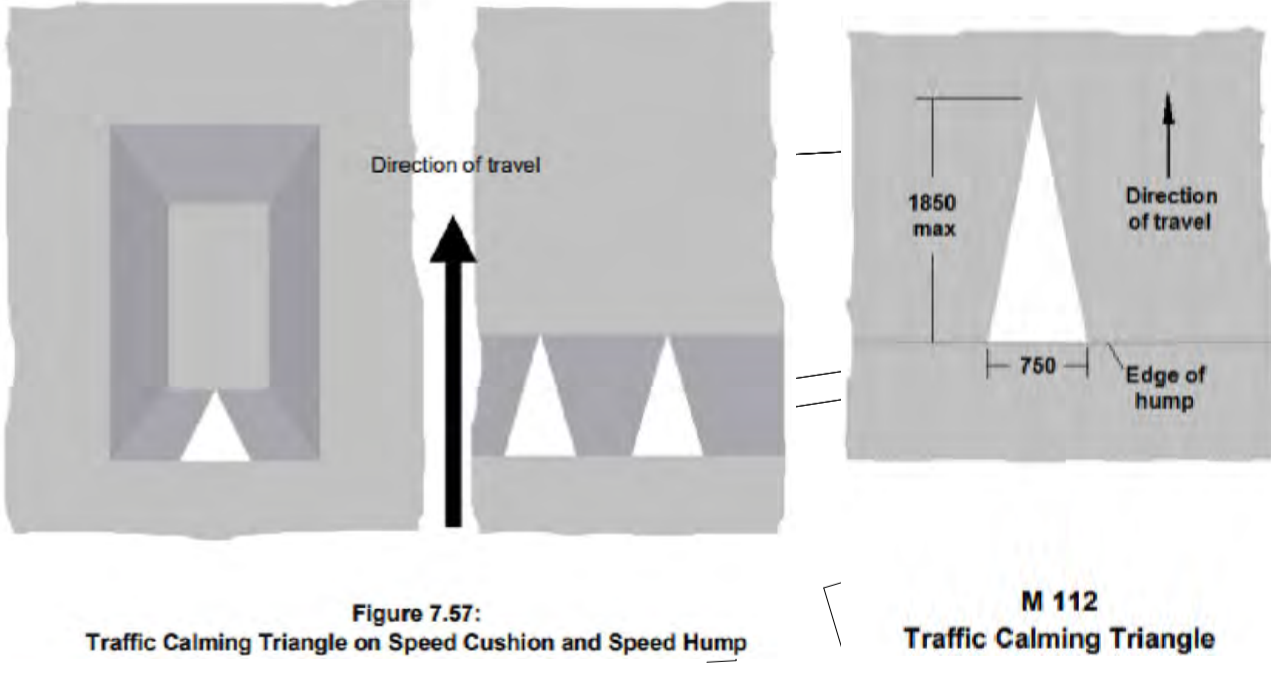
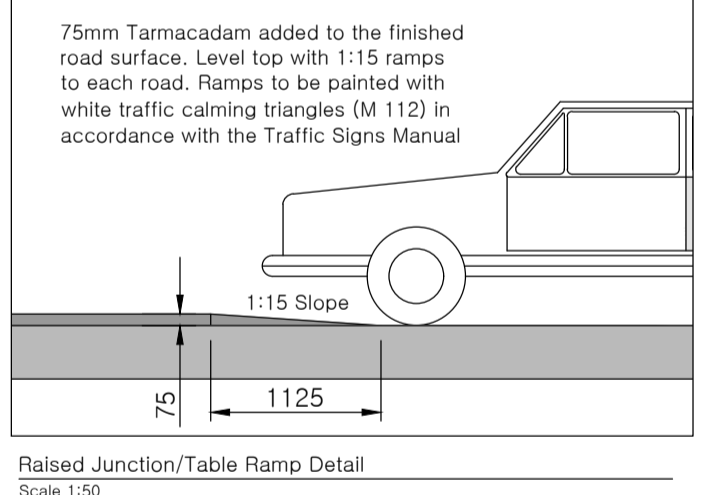
Raised Road Section - Ramps as per detail



RUS 027: STOP

49m sightlines (purple) with a 2.4m setback from edge of the carriageway. The sightlines are in accordance with DMURS table 4.2 for a 50km/h design speed and must be kept clear of all objects large enough to obscure a vehicle, pedestrian or cyclist. Foliage to be cut back/removed where necessary. Nothing shall be planted within the sightline triangle without written permission from Cork County Council. Any boundary walls etc. within the sightline triangle shall have a max. height of 0.8m.

M114 (Stop road Marking)
RRM 017 (Stop Line)
RRM 001 (Solid centre Line)
Extends back 10m from the stop line



Uncontrolled pedestrian crossing path/kerb
Scale 1:50

Uncontrolled (Inset) pedestrian crossing path/kerb
Scale 1:50

- Tactile Paving Note:**
1. Uncontrolled crossings in accordance with 'Traffic Management Guidelines' DOT, 2019.
 2. Module type B (400mm x 400mm) only is shown here and shall be used.
 3. Tactile blister paving shall be bedded on 25mm moist sand/cement mortar (3:1), joints filled with 4:1 mix to within 2mm of the paving surface.
 4. Dropped kerb shall have a maximum up-stand of 6mm.

General Notes

All drawings are to be read in conjunction with all relevant specifications, bills of quantities, architectural Services and engineering drawings.

Any discrepancies between these documents shall be brought to the attention of the engineer and architect.

All dimensions are in millimetres, unless noted otherwise.

Figured dimensions take precedent over scaled dimensions.

The contractor is responsible for all temporary works.

The contractor must prepare a method statement and submit it to the engineer/architect prior to the undertaking of any structural or civil engineering work.

Groundworks Notes

All soft and organic material to be removed from under foundations.

Ensure clean, dry, level solid rock base to all footings.

Concrete Notes

Concrete blinding to be 50mm minimum under all structures in direct contact with the ground.

Concrete to all footings to be designation class XC2, as specified in EN1992.

Minimum indicative concrete strength to be C28/35.

Maximum aggregate size to be 20mm.

Concrete finishes to be as follows:

- Footings/ground beams Plywood shuttering and surfaces to be timber tamped.
- Floor slabs Steel float
- External ground slabs and footpaths Brushed finish.

Reinforcement to comply with BS 4448 and BS 4483.

Minimum cover to reinforcement to be as follows:

- Foundations 50mm
- Ground beams 50mm

Reinforcement lap lengths to be as follows:

- Mesh 300mm
- H10 400mm H12 500mm
- H16 650mm H20 800mm

Services Notes

All new drainage pipes up to and including 1500 to be uPVC to BS EN 1401-01, unless otherwise noted

All internal pipes to be provided with 100mm thick mass concrete bed.

Manholes to be constructed using precast manhole rings, unless noted otherwise.

Blockwork notes

Structural masonry to conform to en 1996 eurocode 6 and SR 325

Standard blocks to be solid, standard textured, normal density concrete blocks with a minimum compressive strength of 7.5N/mm² in accordance with IS EN 772-1

Blocks where a painted finish is specified to be solid, fine textured, normal density concrete

Mortar to be as outlined in table NA.3 of Irish National annex to EN 1996-1-1

Masonry workmanship in accordance with IS EN 1996-2, SR 325 and Table NA.2

Insulation, dpcs and dpms as outlined in architects documents.

Cavity wall ties to be twisted stainless steel with integral drip and insulation retention clip.

Cavity wall ties required at 450mm centres horizontally and 450mm centres vertically.

Steelwork Notes

All Structural Steelwork To Comply With EN 1993 EUROCODE 3 and all should be CE marked

All steel beams will bear on Precast Concrete Padstones 450mm long. Unless Otherwise Authorised.

The Steelwork Contractor should be certified to execution class 2 and is Responsible For The Accuracy Of All Dimensions And For The Correct Setting Out Of The Work On Site.

External steelwork to be galvanised (Unless Noted Otherwise).

Where custom lintels are indicated then equivalent products may be used if approved by the ENGINEER

All structural steelwork should be coated in paintwork or encased in materials that are certified to provide 30 minutes fire resistance. Unless otherwise authorised in writing by the ENGINEER

Timber Notes

Timber to comply with EN 1995 EUROCODE 5

Structural Timber GRADED in accordance with IS EN 14081 & IS EN 338

Health & Safety Notes

Contractor To Comply With Safety, Health And Welfare At Work (Construction) Regulations, 2001.

Health & Safety Procedures To Be Followed At All Times, Especially With Regard To Any Works In Or Around Existing Live Sewers, Drains Or Inspection Chambers.

The Contractor To Be Responsible For Checking The Location Of All Existing Services

1	Revised Site Plan	29.02.24	LB	MW
2	Revised Road Level Markings	28.02.24	JP	
3	Revised Levels	07.03.24	JP	MF
4	Rev. Description	12.04.24	JP	MF

walsh design group

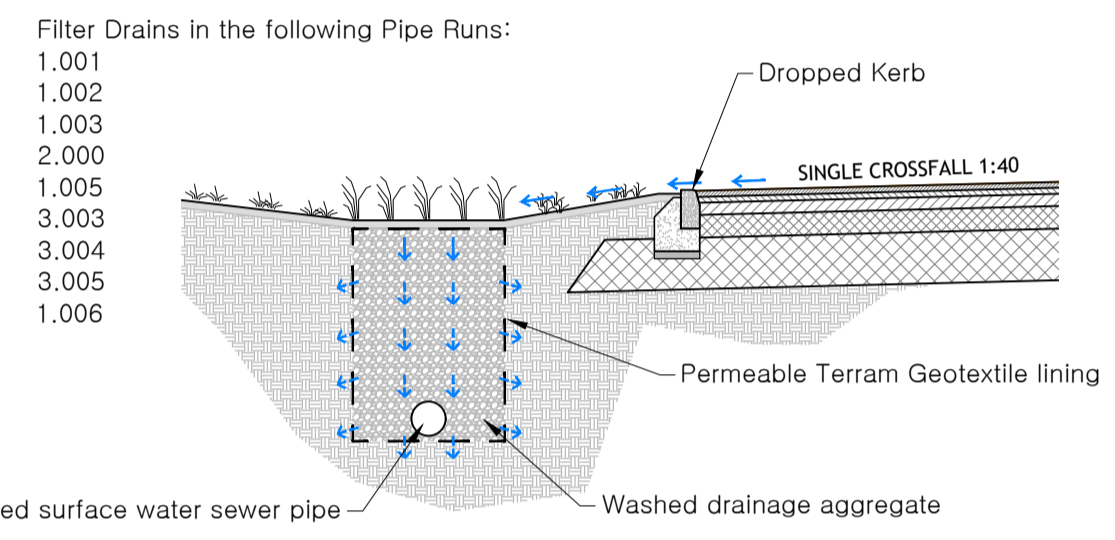
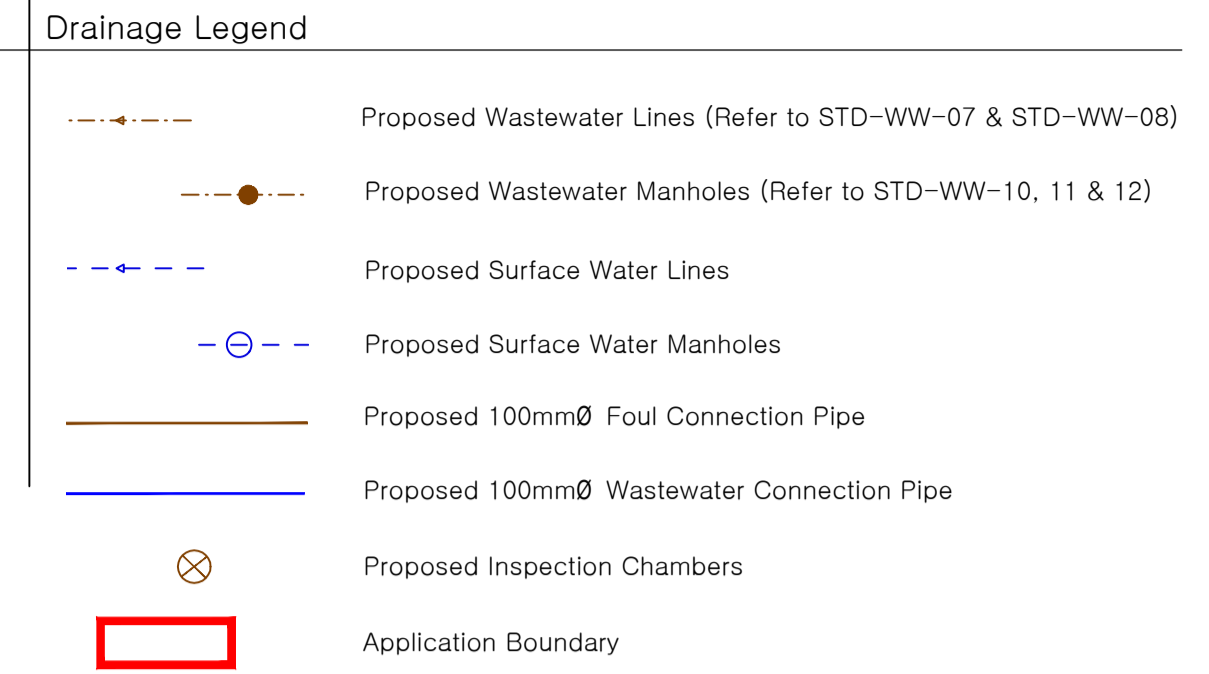
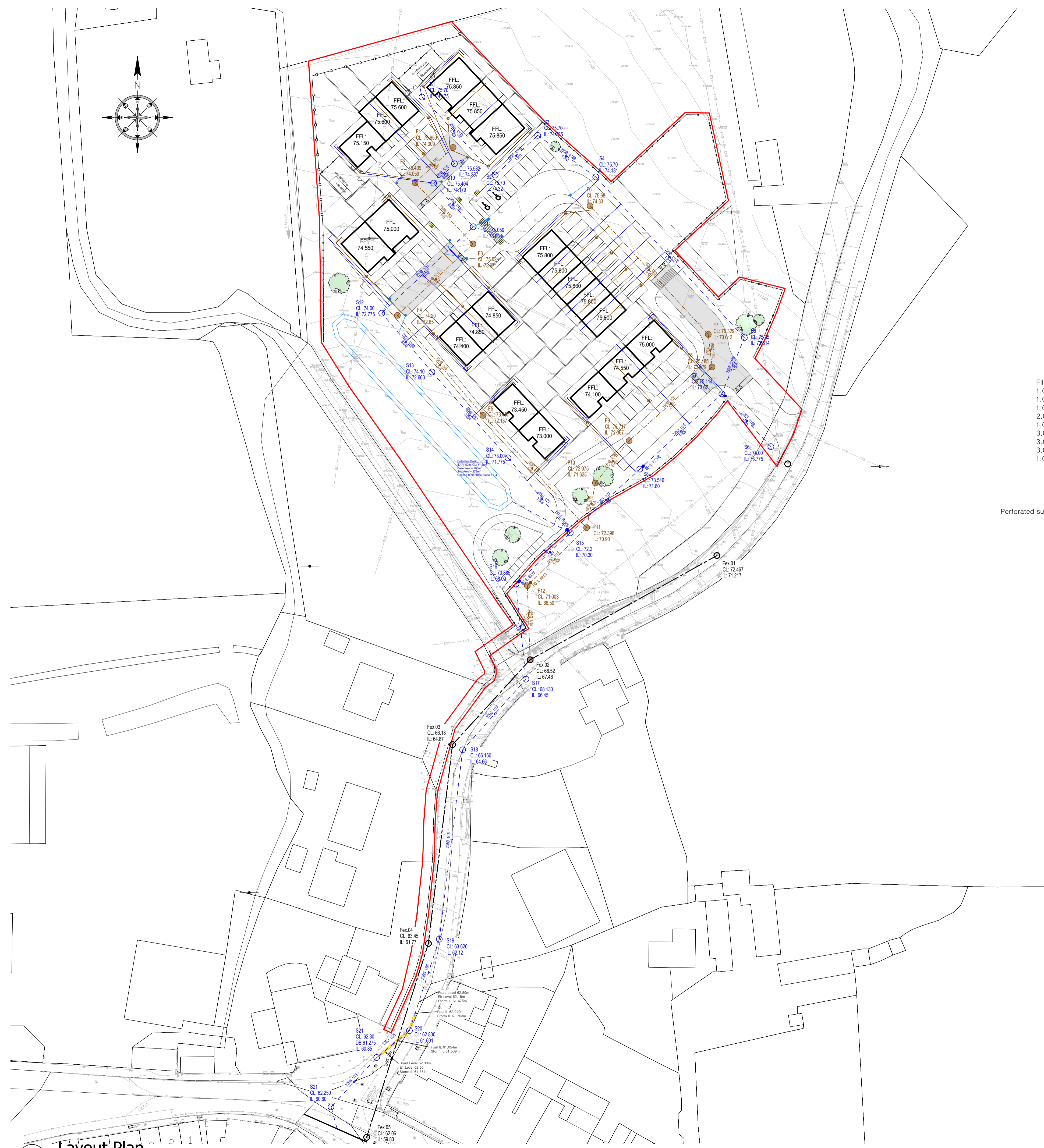
Consulting Engineers

The Mall, Maryborough Woods, Douglas, Cork

Tel: 021-4774940 email: info@wdg.ie

Title:	Site Layout Roads & Levels
Project:	Proposed Residential Development, Coachford, Co. Cork
ID No:	23028-XX-XX-XX-DR-WDG-CE-001
Date:	Oct 2023
Drawn by:	IR
Scale:	1:500
Purpose:	P1 - Information
Rev:	3

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2 Roadside Filter Drain
Scale: 1:50

Manhole No.	MANHOLE DIAMETER (mm)	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)
S1	1200	75.700	74.475	1.000
S2	1200	75.700	74.320	1.155
S3	1200	75.700	74.235	1.240
S4	1200	75.700	74.131	1.344
S5	1200	75.350	73.814	1.311
S6	1200	75.000	73.775	1.000
S7	1200	75.114	73.670	1.219
S8	1200	73.546	71.800	1.521
S9	1200	75.582	74.357	1.000
S10	1200	75.404	74.179	1.000
S11	1200	75.059	73.834	1.000
S12	1200	74.000	72.775	1.000
S13	1200	74.100	72.663	1.212
S14	1200	73.000	71.775	1.000
S15	1200	72.131	70.300	1.606
S16	1200	71.003	68.400	2.378
S17	1200	68.587	67.362	1.000
F1	1200	75.659	74.309	1.200
F2	1200	75.409	74.059	1.200
F3	1200	75.020	73.670	1.200
F4	1200	74.200	72.850	1.200
F5	1200	73.487	72.137	1.200
F6	1200	75.680	74.330	1.200
F7	1200	75.329	73.613	1.566
F8	1200	75.185	73.479	1.556
F9	1200	73.717	72.367	1.200
F10	1200	72.975	71.625	1.200
F11	1200	72.398	70.700	1.548
F12	1200	70.885	68.500	2.235
F13	1200	68.493	67.143	1.200

- Notes:
- All Levels are relative to Ordnance Datum.
 - All coordinates are ITM.
 - Minimum cover to pipes under roadways to be 1200mm. Where this can not be achieved, concrete surround and cover should be provided in accordance with Irish Water Standard Detail STD-WW-08.
 - Manhole Covers to be adjusted to suit finished road levels.
 - D 400 Covers are to be used within roadways and green areas.
 - Manhole covers shall be hinged, non-rock design with 2 closed keyways.
 - Maximum distance between manholes to be 90m.
 - All pre-cast manhole rings to have a minimum of 150mm of concrete surround.
 - Pre-cast manhole rings to have a minimum of 150mm of concrete surround where depth to Invert exceeds 2.0m.
 - Pipe joining shall be as per manufacturers instructions
 - All wastewater sewer pipes will be uPVC and will have a minimum 3.2mm wall thickness and SN8 stiffness class. Sewer pipes will comply with section 3.13 of the IW Code of Practice for Wastewater Infrastructure (Rev2) July 2020.
 - All foul and storm water pipes running close to any building or development structure to have a horizontal distance from the foundations of at least 3.0m or a distance equivalent to the depth of the sewer below the foundation, whichever is greater.
 - Storm water shall not be permitted to enter the foul sewer.
 - All connections to the foul sewer shall be made using Tee pieces built into the main line in accordance with IW standard detail STD-WW-03.
 - Built in connections to the foul sewer to facilitate the installation of washing machines and dishwashers to be provided.
 - A separate foul service pipe is to be taken from each house to the main sewer. Common drains are not permitted for use.
 - An inspection chamber in compliance with IW Standard Details STD-WW-03 (Rev2) and STD-WW-13 (Rev3) will be located within the curtilage of each premise, within 1.0m of the premise boundary as per section 3.11.14 of the wastewater Code of Practice.
 - The maximum backdrop permitted in foul manholes is 2.5m – refer to section 3.6 of the Wastewater Code of Practice and STD-WW-12 for more detail.
 - See section 3.5 of the IW Code of Practice for Wastewater for required separation distances.
 - The external face of proposed manhole chambers will be constructed a minimum of 0.5m from a kerb line and the external face of a sewer line will be constructed a minimum of 1.0m from a kerb line in accordance with section 3.5.16 of the Wastewater Code of Practice.
 - All foul sewer construction details for both gravity sewers and rising mains to comply with the following Irish Water Documents:
 - IW-CDS-5030-01 Wastewater Infrastructure Standard Details, July 2020, Revision 4.
 - IW-CDS-5030-03 Code of practice for Wastewater Infrastructure, July 2020, Revision 2.

1 Layout Plan

Scale: 1:500

Revised Date Plan	29.02.24	LB	MW
Revised Detail for Drawings	28.02.24	IR	IR
Revised Layout	17.02.24	IR	IR
Rev. Description	12.02.24	IR	IR

walsh design group

Consulting Engineers

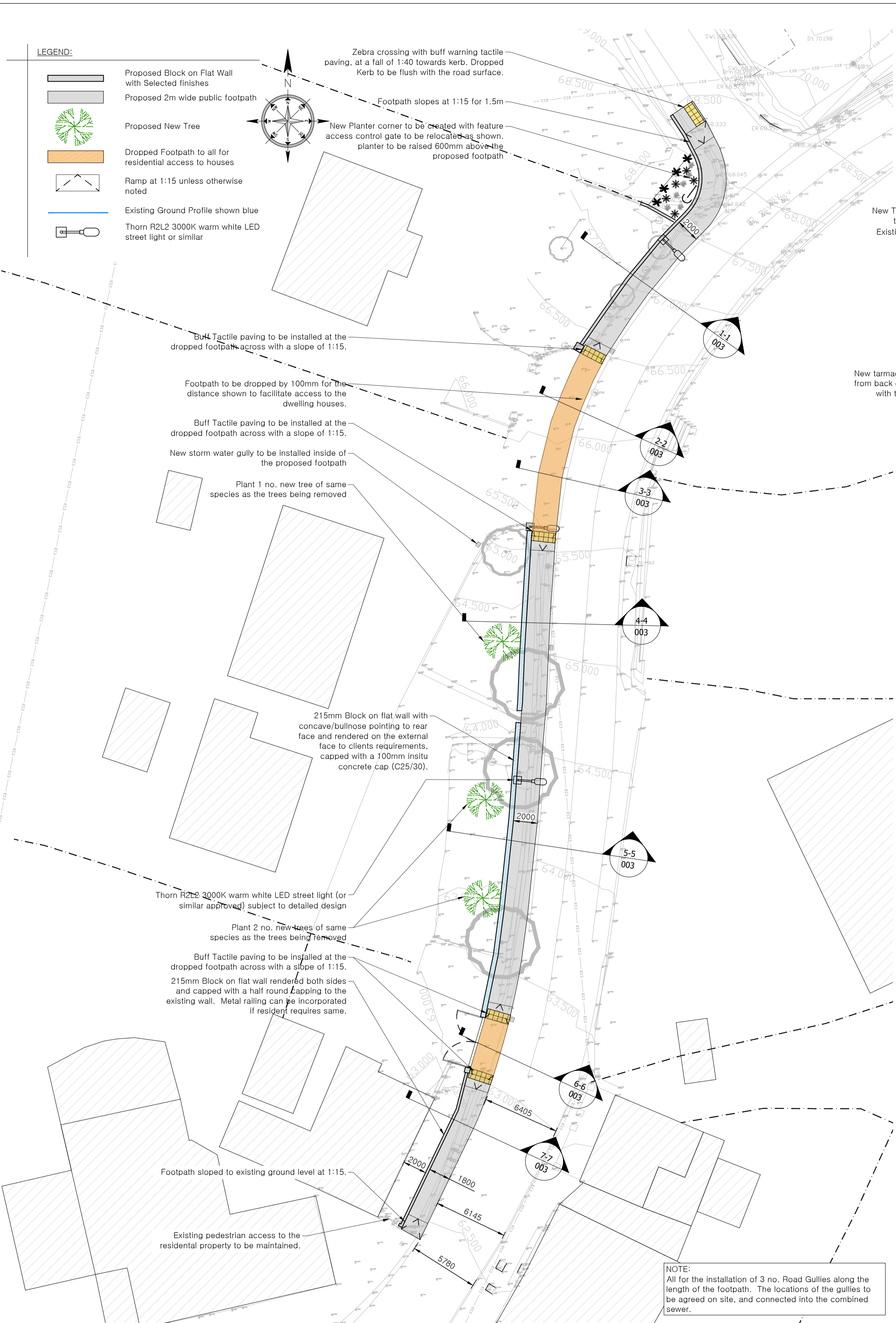
The Mall, Maryborough Woods, Douglas, Cork

Tel: 021-4774940 email: info@wdg.ie

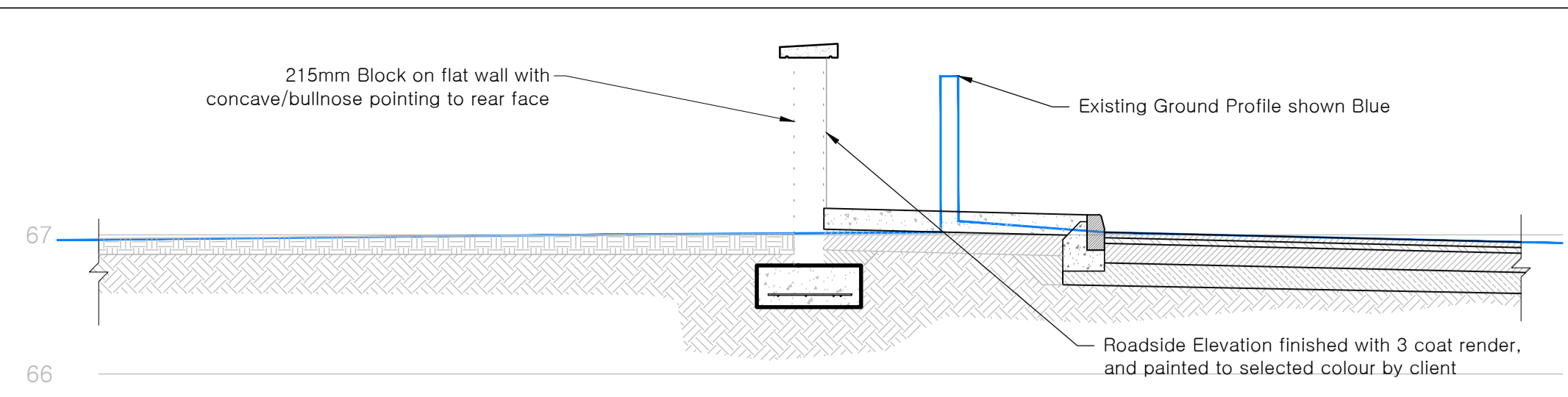
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Project:	Proposed Residential Development, Coachford, Co. Cork
ID No.:	23028-XX-XX-XX-DR-WDG-CE-002
Date:	Oct 2023
Drawn by:	IR
Scale:	1:500
Purpose:	P1 - Information

3

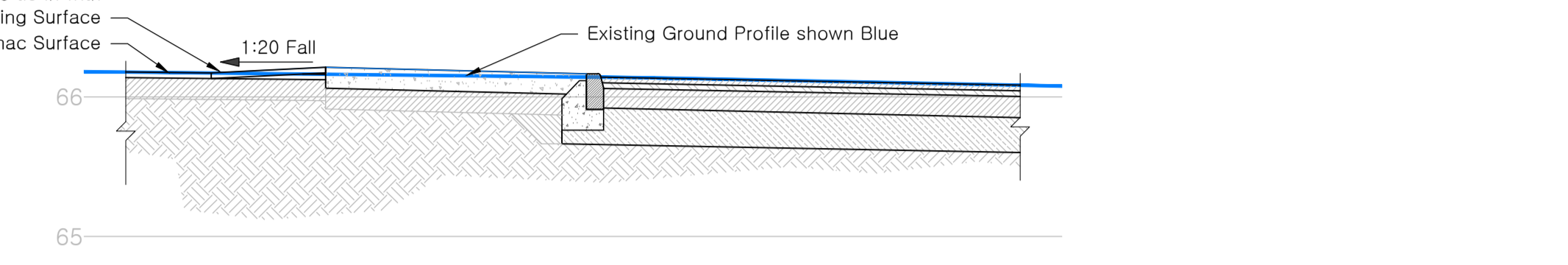
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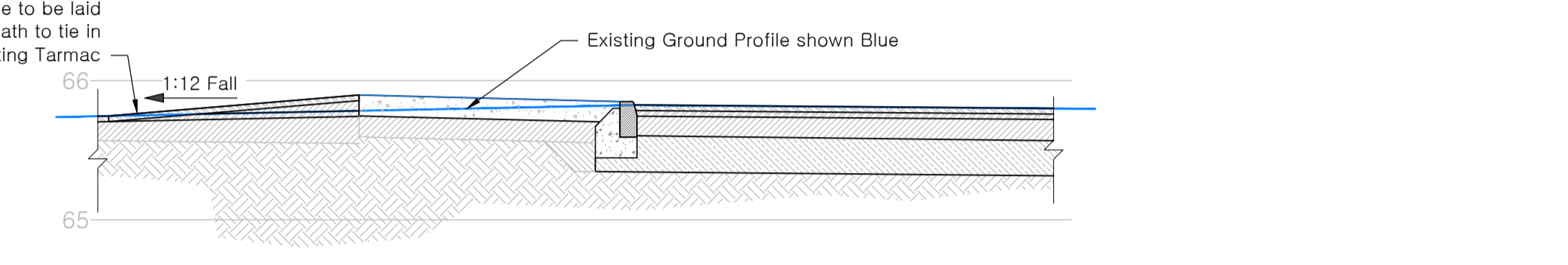
1 Site Layout Plan - Proposed Public Footpath
Scale: 1:200



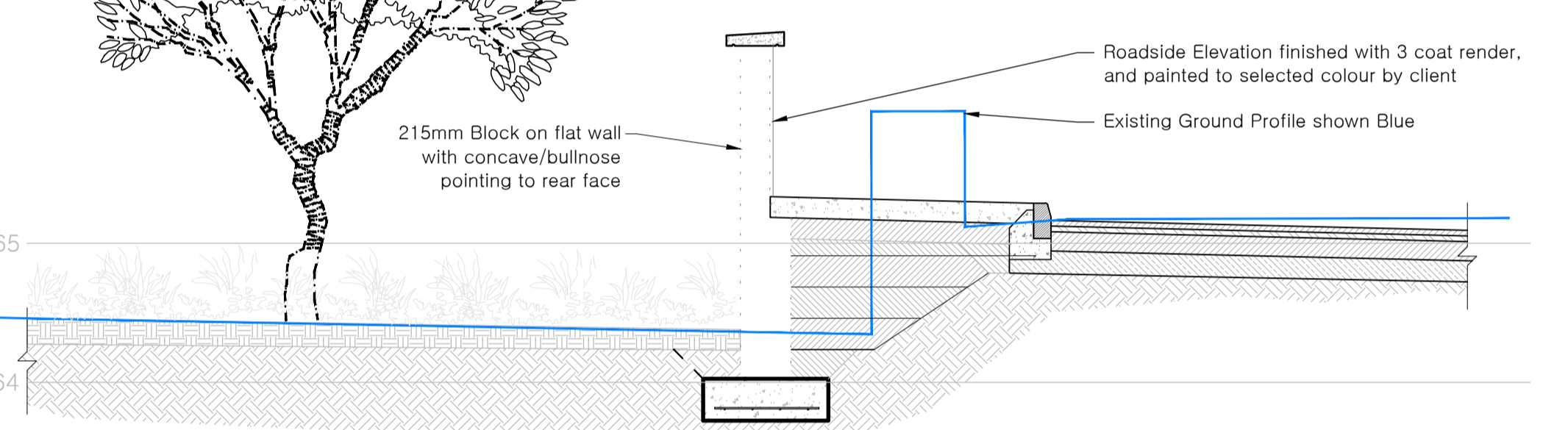
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Scale: 140



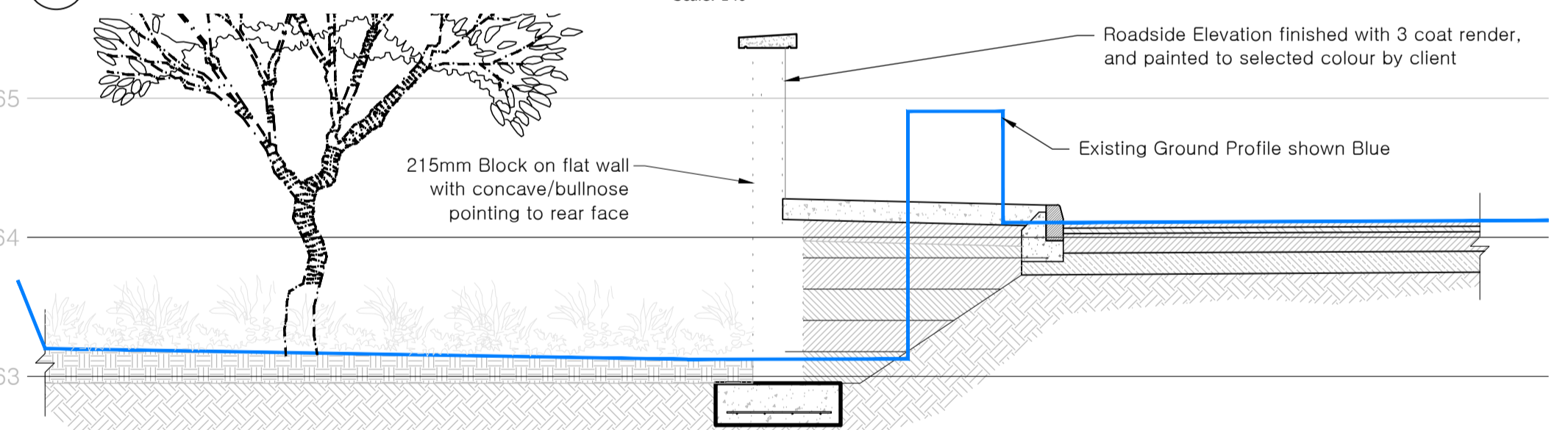
3 Section 2-2 - Through Footpath
Scale: 140



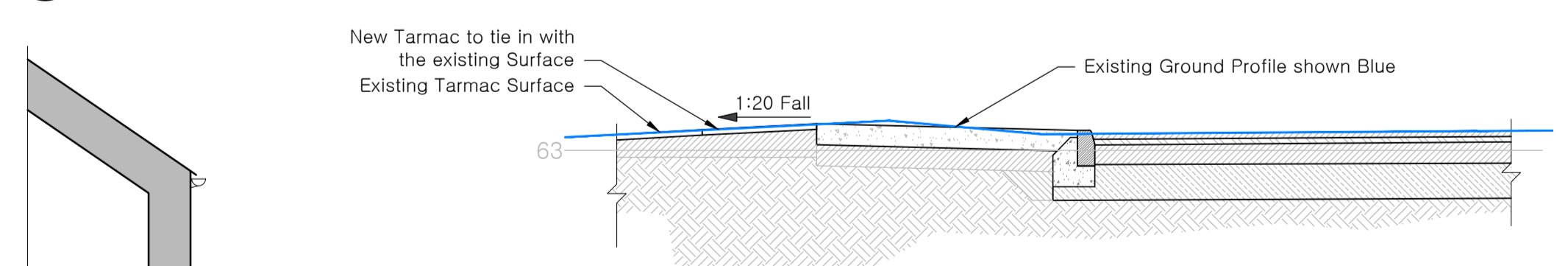
4 Section 3-3 - Through Footpath
Scale: 140



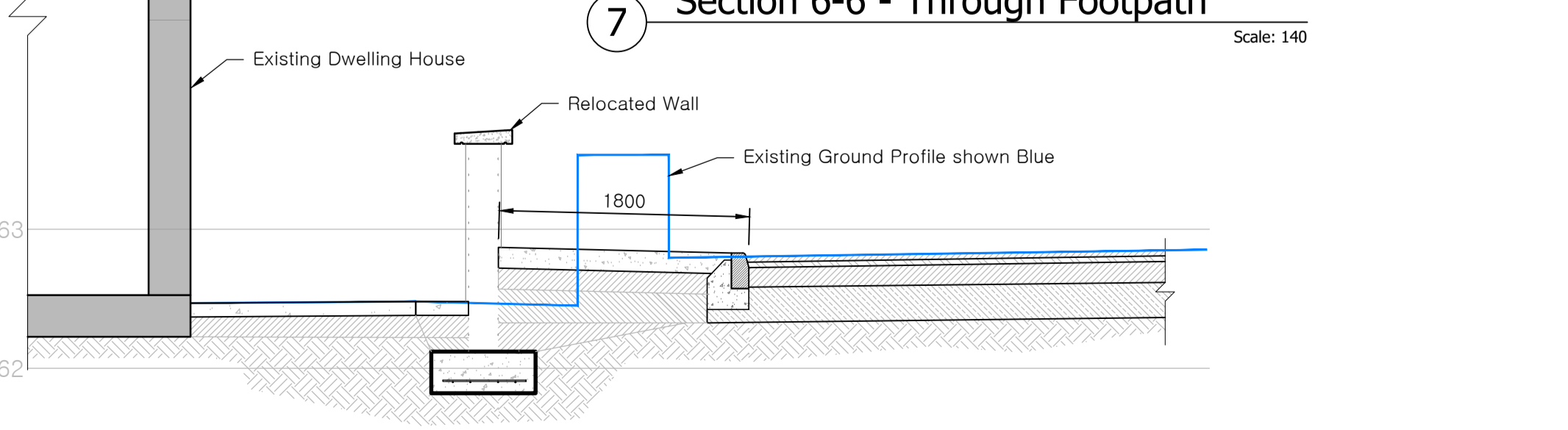
5 Section 4-4 - Through Footpath
Scale: 140



6 Section 5-5 - Through Footpath
Scale: 140



7 Section 6-6 - Through Footpath
Scale: 140



8 Section 7-7 - Through Footpath
Scale: 140

General Notes
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Figured dimensions take precedent over scaled dimensions.
The contractor is responsible for all temporary works.
The contractor must prepare a method statement and submit it to the engineer/architect prior to the undertaking of any structural or civil engineering work.

Groundworks Notes
All soft and organic material to be removed from under foundations.
Ensure clean, dry, level solid rock base to all footings.

Concrete Notes
Concrete blinding to be 50mm minimum under all structures in direct contact with the ground.
Concrete to all footings to be designation class XC2, as specified in EN1992.
Minimum indicative concrete strength to be C28/35.
Maximum aggregate size to be 20mm.
Concrete finishes to be as follows:

- Footings/ground beams Plywood shuttering and surfaces to be timber tamped.
- Floor slabs Steel float
- External ground slabs and footpaths Brushed finish.
- Reinforcement to comply with BS 4448 and BS 4483.
- Minimum cover to reinforcement to be as follows:
- Foundations 50mm
- Ground beams 50mm
- Reinforcement lap lengths to be as follows:
- Mesh 300mm
- H10 400mm H12 500mm
- H16 650mm H20 800mm

Services Notes
All new drainage pipes up to and including 1500 to be uPVC to BS EN 1401-01, unless otherwise noted.
All internal pipes to be provided with 100mm thick mass concrete bed.
Manholes to be constructed using precast manhole rings, unless noted otherwise.

Blockwork notes
Structural masonry to conform to EN 1996 eurocode 6 and SR 325
Standard blocks to be solid, standard textured, normal density concrete blocks with a minimum compressive strength of 7.5N/mm² in accordance with IS EN 772-1
Blocks where a painted finish is specified to be solid, fine textured, normal density concrete
Mortar to be as outlined in table NA.3 of Irish National annex to EN 1996-1-1
Masonry workmanship in accordance with IS EN 1996-2, SR 325 and Table NA.2
Insulation, dpcs and dpms as outlined in architects documents.
Cavity wall ties to be twisted stainless steel with integral drip and insulation retention clip.
Cavity wall ties required at 450mm centres horizontally and 450mm centres vertically.

Steelwork Notes
All Structural Steelwork To Comply With EN 1993 EUROCODE 3 and all should be CE marked
All steel beams will bear on Precast Concrete Padstones 450mm long. Unless Otherwise Authorised.
The Steelwork Contractor should be certified to execution class 2 and is Responsible For The Accuracy Of All Dimensions And For The Correct Setting Out Of The Work On Site.
External steelwork to be galvanised (Unless Noted Otherwise).
Where custom lintels are indicated then equivalent products may be used if approved by the ENGINEER
All structural steelwork should be coated in paintwork or encased in materials that are certified to provide 30 minutes fire resistance. Unless otherwise authorised in writing by the ENGINEER

Timber Notes
Timber to comply with EN 1995 EUROCODE 5
Structural Timber GRADED in accordance with IS EN 14081 & IS EN 338

Health & Safety Notes
Contractor To Comply With Safety, Health And Welfare At Work (Construction) Regulations, 2001.
Health & Safety Procedures To Be Followed At All Times, Especially With Regard To Any Works In Or Around Existing Live Sewers, Drains Or Inspection Chambers.
The Contractor To Be Responsible For Checking The Location Of All Existing Services

Rev	Description	Date	By	Chk

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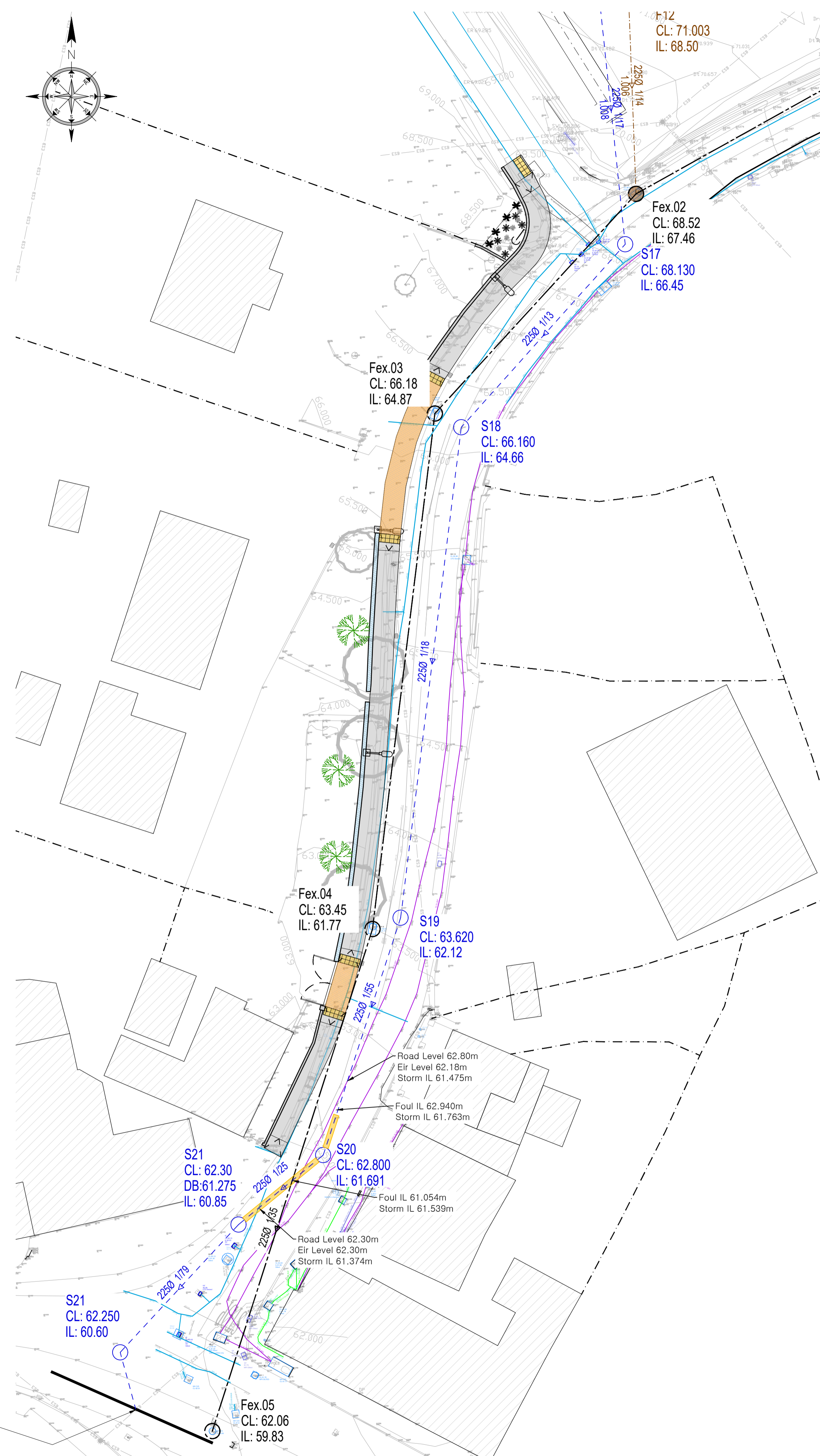
Consulting Engineers

The Mall, Maryborough Woods, Douglas, Cork

Tel: 021-4774940 email: info@wdg.ie

Title:	Site Layout Plan Proposed Public Footpath
Project:	Proposed Residential Development, Coachford, Co. Cork
ID No:	23028-XX-XX-XX-XX-DR-WDG-CE-003
Date:	Nov 2023
Drawn by:	BW
Scale:	1:200
Purpose:	P1 - Information
Rev:	0

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- Notes:
- All Levels are relative to Ordnance Datum.
 - All coordinates are ITM.
 - Minimum cover to pipes under roadways to be 1200mm. Where this can not be achieved, concrete surround and cover should be provided in accordance with Irish Water Standard Detail STD-WW-08.
 - Manhole Covers to be adjusted to suit finished road levels.
 - D 400 Covers are to be used within roadways and green areas.
 - Manhole covers shall be hinged, non-rock design with 2 closed keyways.
 - Maximum distance between manholes to be 90m.
 - All pre-cast manhole rings to have a minimum of 150mm of concrete surround.
 - Pre-cast manhole rings to have a minimum of 150mm of concrete surround where depth to invert exceeds 2.0m.
 - Pipe joining shall be as per manufacturers instructions.
 - All wastewater sewer pipes will be uPVC and will have a minimum 3.2mm wall thickness and SN8 stiffness class. Sewer pipes will comply with section 3.13 of the IW Code of Practice for Wastewater Infrastructure (Rev2) July 2020.
 - All foul and storm water pipes running close to any building or development structure to have a horizontal distance from the foundations of at least 3.0m or a distance equivalent to the depth of the sewer below the foundation, whichever is greater.
 - Storm water shall not be permitted to enter the foul sewer.
 - All connections to the foul sewer shall be made using Tee pieces built into the main line in accordance with IW standard detail STD-WW-03.
 - Built in connections to the foul sewer to facilitate the installation of washing machines and dishwashers to be provided.
 - A separate foul service pipe is to be taken from each house to the main sewer. Common drains are not permitted for use.
 - An inspection chamber in compliance with IW Standard Details STD-WW-03 (Rev2) and STD-WW-13 (Rev3) will be located within the curtilage of each premise, within 1.0m of the premise boundary as per section 3.11.14 of the wastewater Code of Practice.
 - The maximum backdrop permitted in foul manholes is 2.5m - refer to section 3.6 of the Wastewater Code of Practice and STD-WW-12 for more detail.
 - See section 3.5 of the IW Code of Practice for Wastewater for required separation distances.
 - The external face of proposed manhole chambers will be constructed a minimum of 0.5m from a kerb line and the external face of a sewer line will be constructed a minimum of 1.0m from a kerb line in accordance with section 3.5.16 of the Wastewater Code of Practice.
 - All foul sewer construction details for both gravity sewers and rising mains to comply with the following Irish Water Documents:
 - IW-CDS-5030-01 Wastewater infrastructure Standard Details, July 2020, Revision 4.
 - IW-CDS-5030-03 Code of practice for Wastewater Infrastructure, July 2020, Revision 2.

Drainage Legend

	Proposed Wastewater Lines (Refer to STD-WW-07 & STD-WW-08)
	Proposed Wastewater Manholes (Refer to STD-WW-10, 11 & 12)
	Proposed Surface Water Lines
	Proposed Surface Water Manholes
	Application Boundary
	Existing Storm Water Sewer
	Existing Storm Water Manhole
	C20/25 Leanmix Concrete Surround

Proposed new surface water outfall into the existing culvert. NOTE: Outfall Culvert level to be confirmed prior to construction.

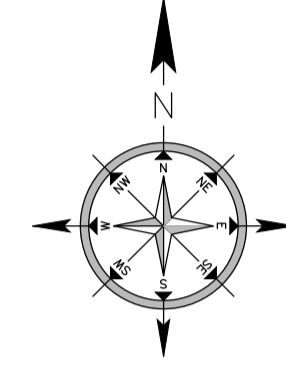
1 Storm Sewer Layout

Scale: 1:250

Consulting Engineers The Mall, Maryborough Woods, Douglas, Cork Tel: 021-4774940 email: info@wdg.ie	
Title:	Site Layout Storm Sewer in Public Road
Project:	Proposed Residential Development, Coachford, Co. Cork
ID No:	23028-XX-XX-XX-DR-WDG-CE-008
Date:	November 2023
Drawn by:	BW
Scale:	1:500
Purpose:	P1 - Information
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- Legend**
- Water Main (80PE 100mm Ø unless otherwise shown – Refer to STD-W-13 re. Trenching & Backfilling)
 - - - Existing Watermain
 - Water service connection & boundary box (Refer to STD-W-01 & 03)
 - Me Bulk Meter (Refer to STD-W-26 & 26A)
 - AV Air Valve (Refer to STD-W-22 & 23)
 - SV Sluice Valve (Refer to STD-W-15)
 - H Hydrant (Refer to STD-W-18 & 19)
 - Application Boundary



General Notes

All drawings are to be read in conjunction with all relevant specifications, bills of quantities, architectural Services and engineering drawings.
 Any discrepancies between these documents shall be brought to the attention of the engineer and architect.
 All dimensions are in millimetres, unless noted otherwise.
 Figured dimensions take precedent over scaled dimensions.
 The contractor is responsible for all temporary works.
 The contractor must prepare a method statement and submit it to the engineer/architect prior to the undertaking of any structural or civil engineering work.

- NOTES:**
1. Do not Scale from the drawing.
 2. All dimensions are in mm unless otherwise noted.
 3. All coordinates are ITM.
 4. All construction details and domestic connections will be constructed to the specifications provided in the Irish Water Document: 'Water Infrastructure Standard Details – Connection and Developer Services, Document Number IW-CDS-5020-01, (December 2017, Revision 03) and the Irish Water Publication 'Code of Practice for Water Infrastructure', IW-CDS-5020-03 (December 2017, Revision 1).
 5. All Water mains shall be blue MDPE or HDPE and of a type PE80 (Polyethylene) and have an SDR-11 or SDR-17 rating. They will conform to IS EN 12201: Part 1 and Part 2 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure – Part 1, General and Part 2, Pipes) and IS EN 12201-3 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure – Part 3:Fittings).
 6. Polyethylene pipes shall also conform to the following UK Water industry specifications (WIS): 4-32-08, 4-32-19 & IGN 4-32-18, 4-01-03.
 7. Polyethylene pipes shall also conform to the specifications in Section 3.3 of the Irish Water Code of Practice for Water Infrastructure, July 2020 (Rev 2).
 8. All water mains shall comply with Section 3.11 of IW-CDS-5020-03 regarding depth of cover.
 9. Air valve and hydrant covers, in grassed areas, shall be surrounded by a concrete plinth, 200mm all round and 100mm deep formed with C20/25 concrete, 20mm aggregate, bedded in clause B04 material. The plinth shall incorporate mild steel reinforcement links and have a bull-nose finish around its external perimeter. See section 3.18 of the Water Code of Practice.
 10. No hydrant has been located within 6m of a property as per section 3.5.25 of the Water Code of Practice.
 11. No new water main, up to and including 150mm Ø, has been located within 3m of an existing or proposed structure. See section 3.5.9 of the Water Code of Practice.
 12. Sluice valves have been placed at all junctions in accordance with sections 3.16.2 and 3.5.39 of the Water Code of Practice.
 13. Air valves shall be positioned at localised high points as shown on the drawing and in accordance with the Water Code of Practice.
 14. All 'T' Junctions will be made at 90° – see Irish Water standard detail STD-W-07.
 15. The minimum separation distances for Gas Networks Ireland infrastructure shall be in accordance with IS329 'Gas Distribution Mains' and IS328 'Code of Practice for Gas Transmission Mains' as amended/updated – See section 3.6 of the Water Code of Practice.
 16. All water main construction shall be in compliance with the following Irish Water Documents:
 Code of Practice for Water Infrastructure, IW-CDS-5020-03, July 2020 (Rev 2)
 Water Infrastructure Standard Details, IW-CDS-5020-01, July 2020 (Rev 4)

Approximate connection point to the existing Irish Water infrastructure in the public road:
 Irish Grid: E545876, N573491

2	Revised (Red) for Site Drawings	21.02.24	JP	JP
	Issued for Information	07.03.24	JP	JP
	Rev. Description	12.06.24	JP	JP

walsh design group

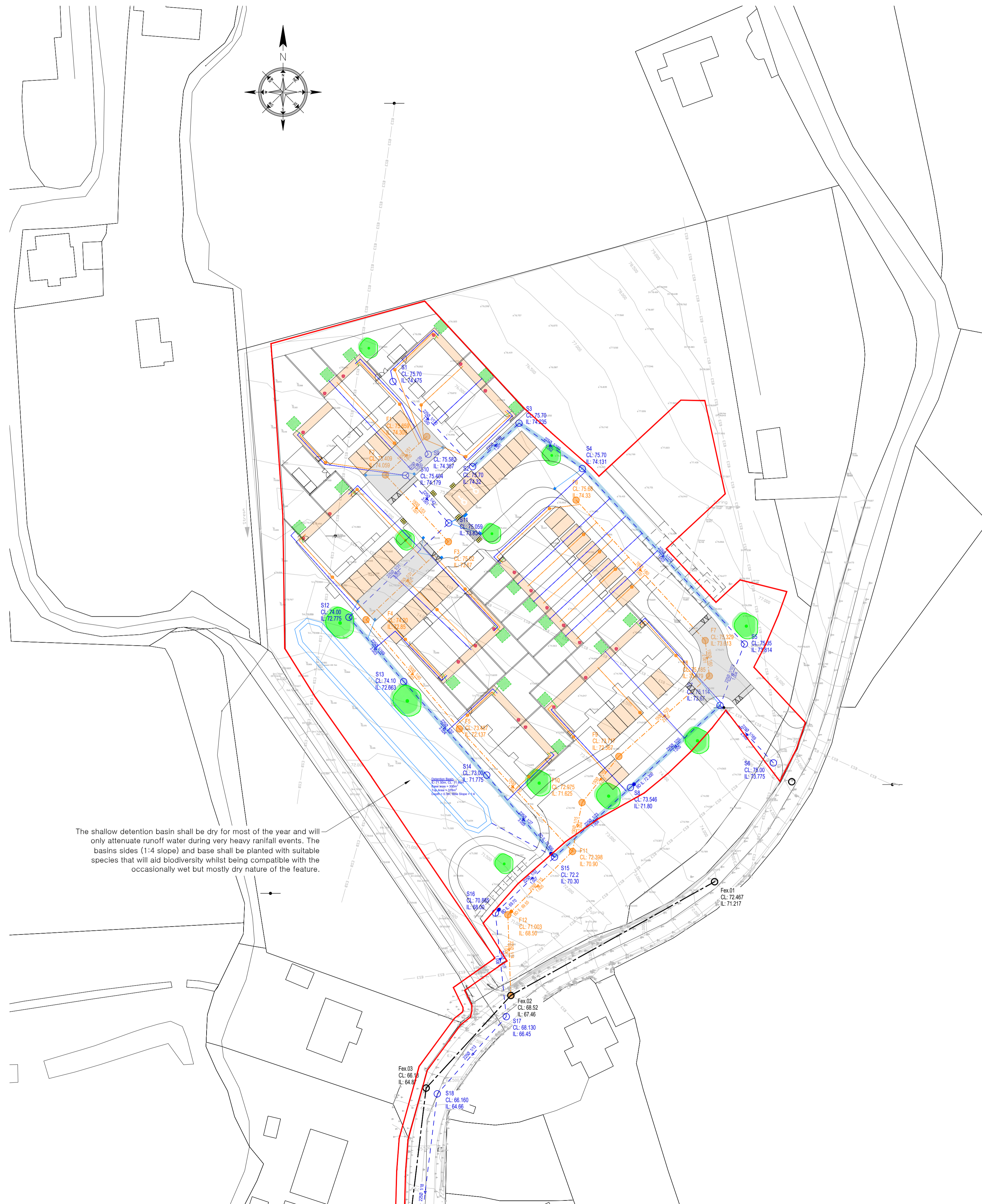
Consulting Engineers

The Mall, Maryborough Woods, Douglas, Cork

Tel: 021-4774940 email: info@wdg.ie

Title:	Site Layout Watermains Layout
Project:	Proposed Residential Development, Coachford, Co. Cork
ID No:	23028-XX-XX-XX-DR-WDG-CE-009
Date:	Jan 2024
Drawn by:	JP
Scale:	1:250
Purpose:	P1 - Information

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The shallow detention basin shall be dry for most of the year and will only attenuate runoff water during very heavy rainfall events. The basins sides (1:4 slope) and base shall be planted with suitable species that will aid biodiversity whilst being compatible with the occasionally wet but mostly dry nature of the feature.

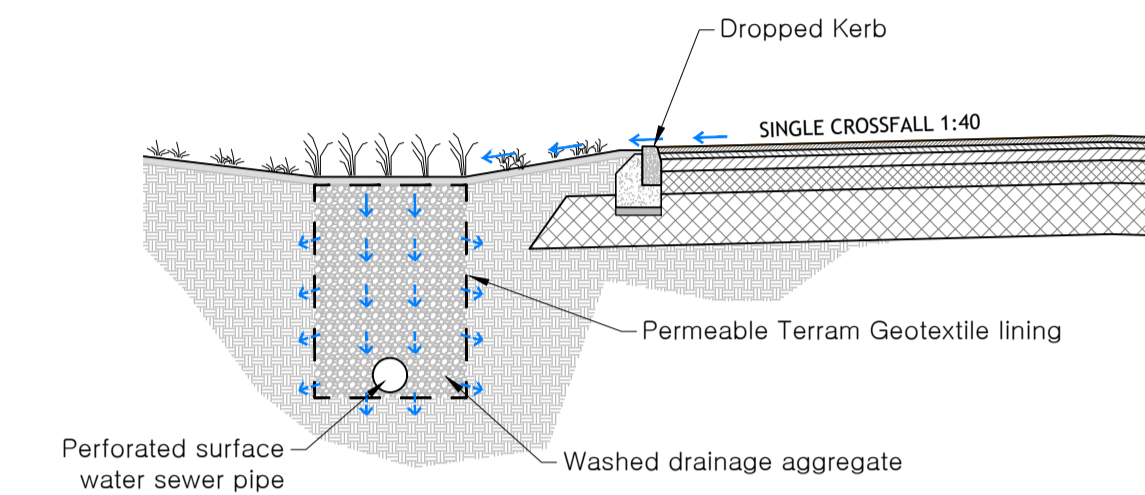
1 Layout Plan

SuDs Features Legend

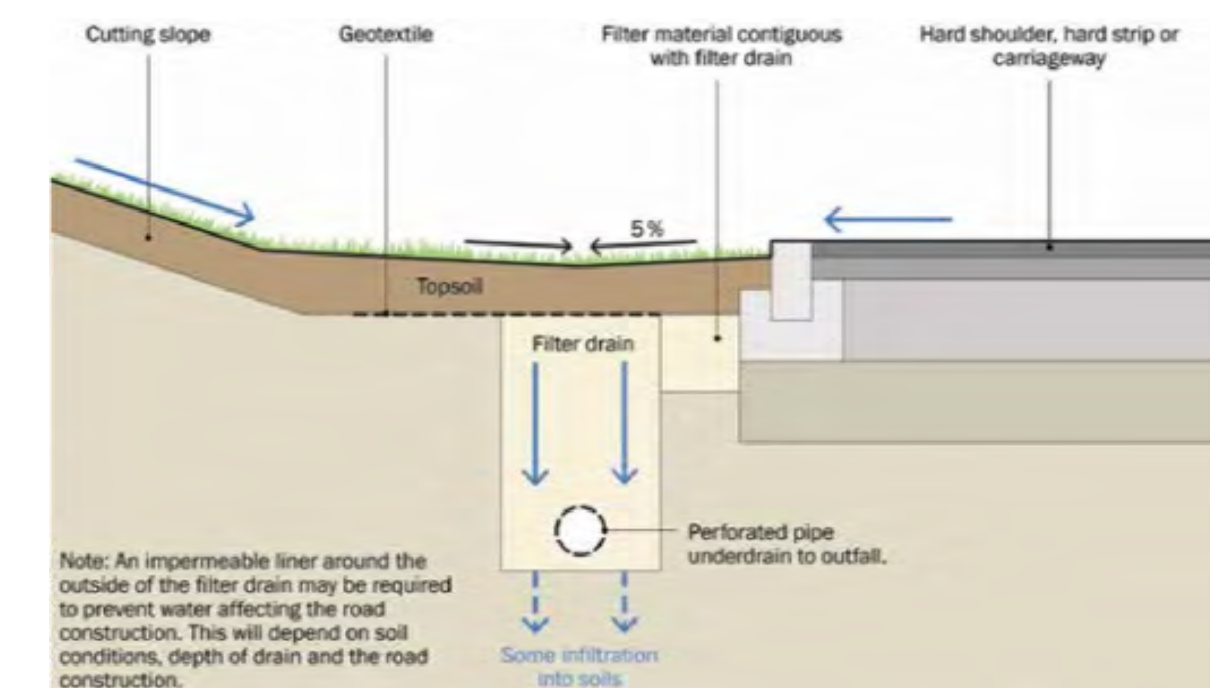
- Permeable Paving – Overflows connected to the main surface water network – For details see WDG drawing no. 23028-XX-XX-XX-DR-WDG-CE-504
- Roadside Filter Drains (225mm Ø slotted uPVC pipes surrounded in washed drainage zone and terram geotextile) – For details see WDG drawing no. 23028-XX-XX-XX-DR-WDG-CE-504
- Roadside Bioretention Tree Pits – overflows connected to the main surface network – For details see WDG drawing no. 23028-XX-XX-XX-DR-WDG-CE-504
- 300 Litre Water Butts
- Raingardens/Planters – overflows connected to the main surface water network

Drainage Legend

- Proposed Wastewater Lines (Refer to STD-WW-07 & STD-WW-08)
- Proposed Wastewater Manholes (Refer to STD-WW-10, 11 & 12)
- Proposed Surface Water Lines
- Proposed Surface Water Manholes
- Proposed 100mmØ Foul Connection Pipe
- Proposed 100mmØ Wastewater Connection Pipe
- Proposed Inspection Chambers
- Application Boundary



1 Roadside Filter Drain Scale: 1:50



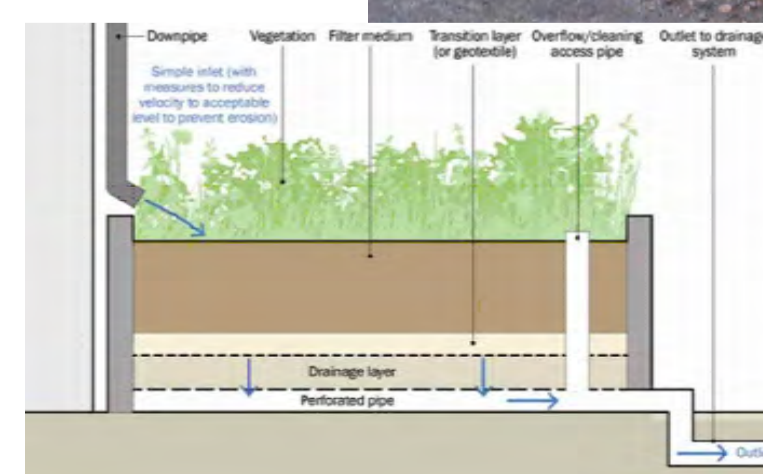
Roadside Filter Drain



Roadside Bioretention Tree Pits



300 litre water butt with overflow to be installed to the rear of all dwellings in private back gardens



Raingarden / Planters

- Notes:
- All Levels are relative to Ordnance Datum.
 - All coordinates are ITM.
 - Minimum cover to pipes under roadways to be 1200mm. Where this can not be achieved, concrete surround and cover should be provided in accordance with Irish Water Standard Detail STD-WW-08.
 - Manhole Covers to be adjusted to suit finished road levels.
 - D 400 Covers are to be used within roadways and green areas.
 - Manhole covers shall be hinged, non-rock design with 2 closed keyways.
 - Maximum distance between manholes to be 90m.
 - All pre-cast manhole rings to have a minimum of 150mm of concrete surround where depth to invert exceeds 2.0m.
 - Pre-cast manhole rings to have a minimum of 150mm of concrete surround where depth to invert exceeds 2.0m.
 - Pipe joining shall be as per manufacturers instructions
 - All wastewater sewer pipes will be uPVC and will have a minimum 3.2mm wall thickness and SN8 stiffness class. Sewer pipes will comply with section 3.13 of the IW Code of Practice for Wastewater Infrastructure (Rev2) July 2020
 - All foul and storm water pipes running close to any building or development structure to have a horizontal distance from the foundations of at least 3.0m or a distance equivalent to the depth of the sewer below the foundation, whichever is greater.
 - Storm water shall not be permitted to enter the foul sewer.
 - All connections to the foul sewer shall be made using Tee pieces built into the main line in accordance with IW standard detail STD-WW-03.
 - Built in connections to the foul sewer to facilitate the installation of washing machines and dishwashers to be provided.
 - A separate foul service pipe is to be taken from each house to the main sewer. Common drains are not permitted for use.
 - An inspection chamber in compliance with IW Standard Details STD-WW-03 (Rev2) and STD-WW-13 (Rev3) will be located within the curtilage of each premise, within 1.0m of the premise boundary as per section 3.11.14 of the wastewater Code of Practice.
 - The maximum backdrop permitted in foul manholes is 2.5m – refer to section 3.6 of the Wastewater Code of Practice and STD-WW-12 for more detail.
 - See section 3.5 of the IW Code of Practice for Wastewater for required separation distances.
 - The external face of proposed manhole chambers will be constructed a minimum of 0.5m from a kerb line and the external face of a sewer line will be constructed a minimum of 1.0m from a kerb line in accordance with section 3.5.16 of the Wastewater Code of Practice.
 - All foul sewer construction details for both gravity sewers and rising mains to comply with the following Irish Water Documents:
 - IW-CDS-5030-01 Wastewater infrastructure Standard Details, July 2020, Revision 4.
 - IW-CDS-5030-03 Code of practice for Wastewater Infrastructure, July 2020, Revision 2.

2	Revised Road and Site Plans	23.02.24	JP	18
	Issued for information	07.03.24	JP	18
	Rev. Description	12.06.24	JP	18

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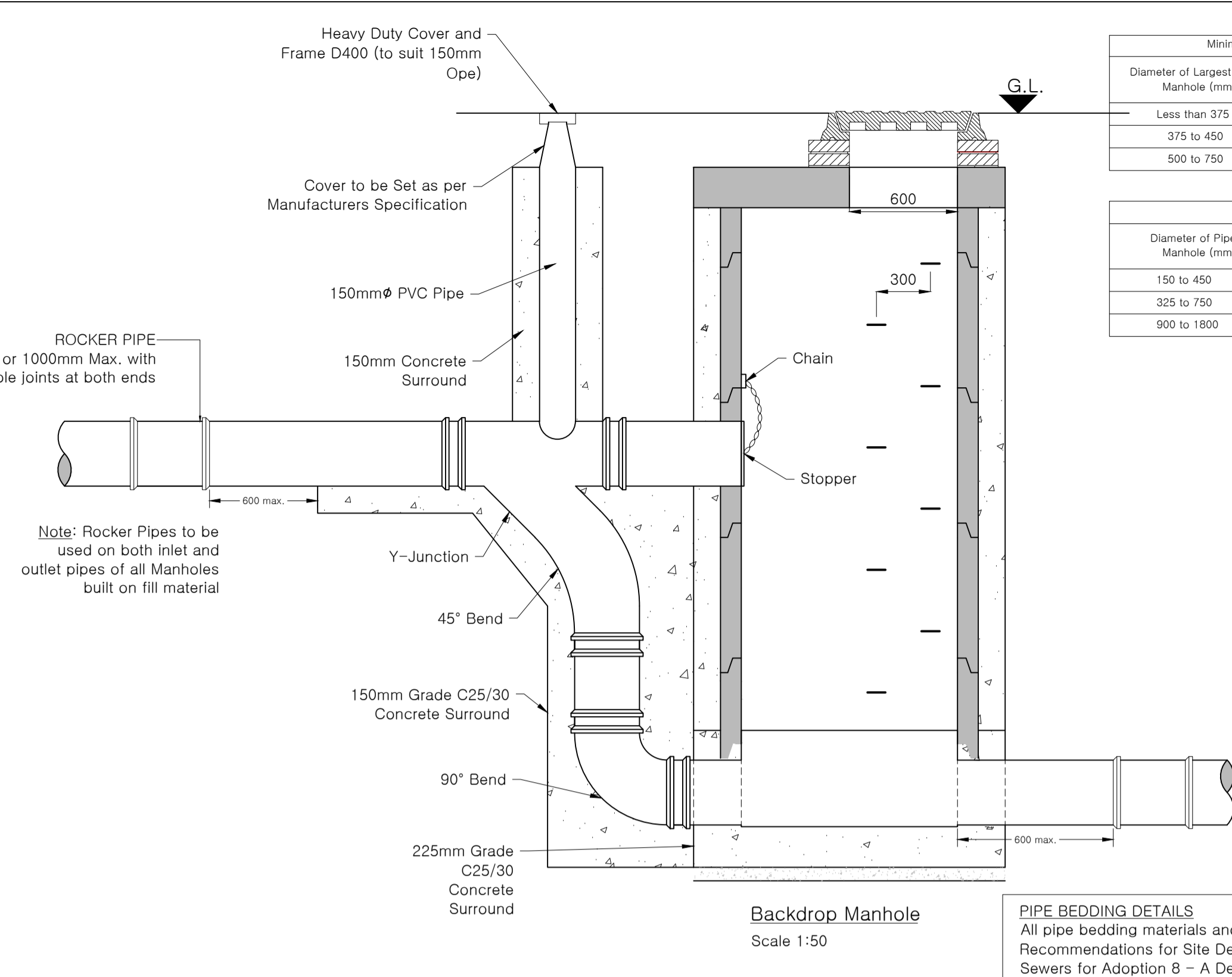
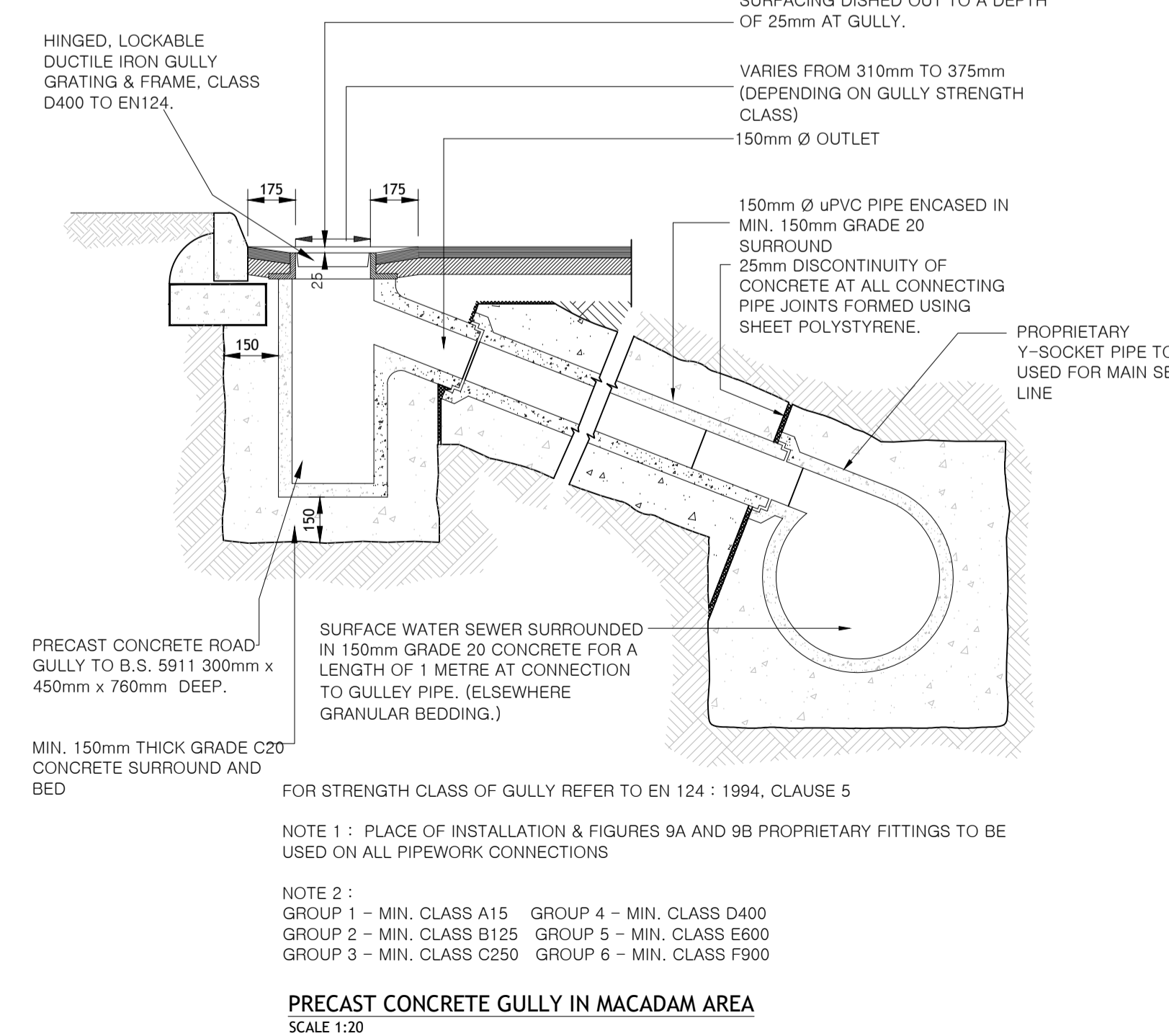
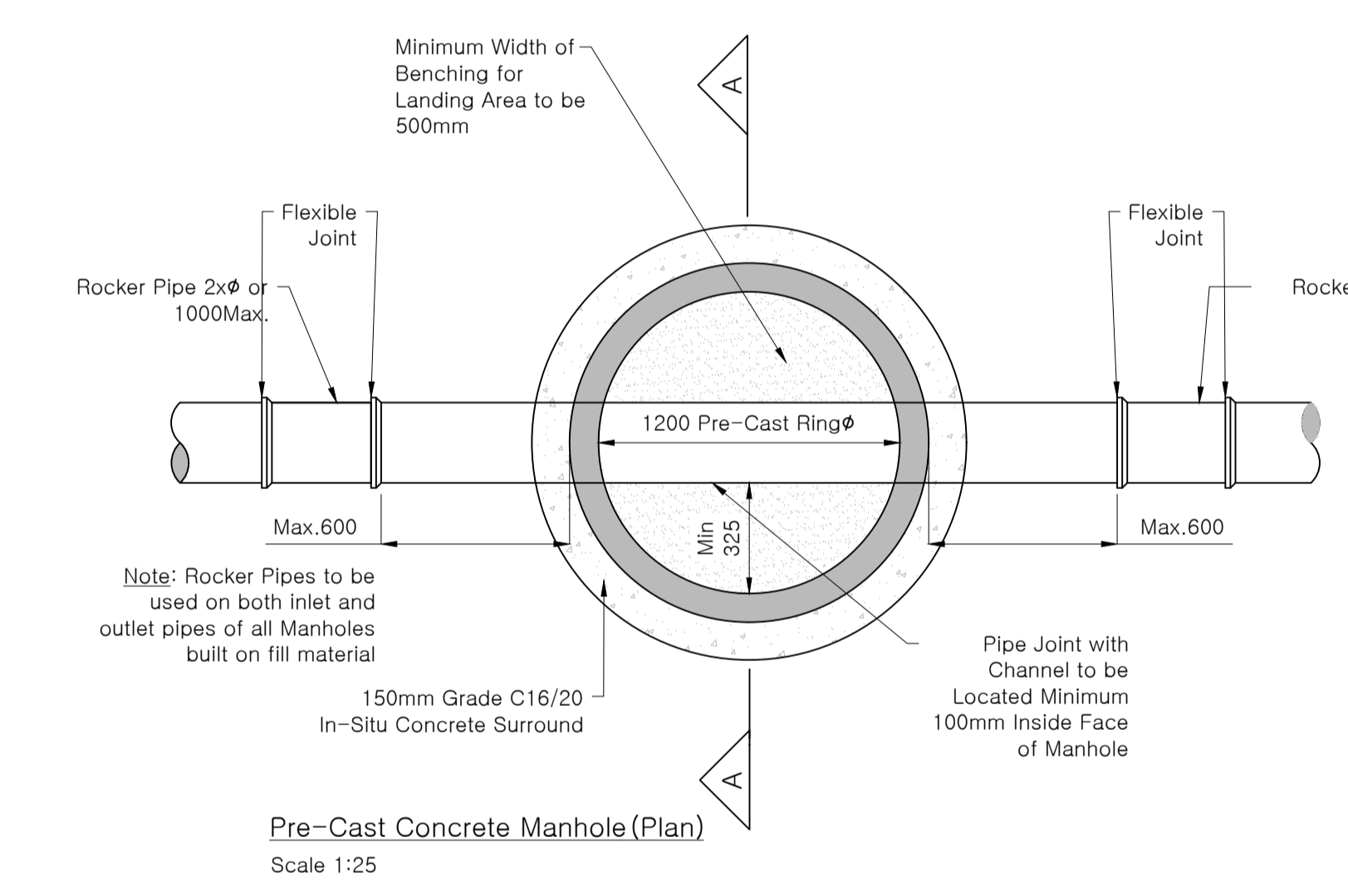
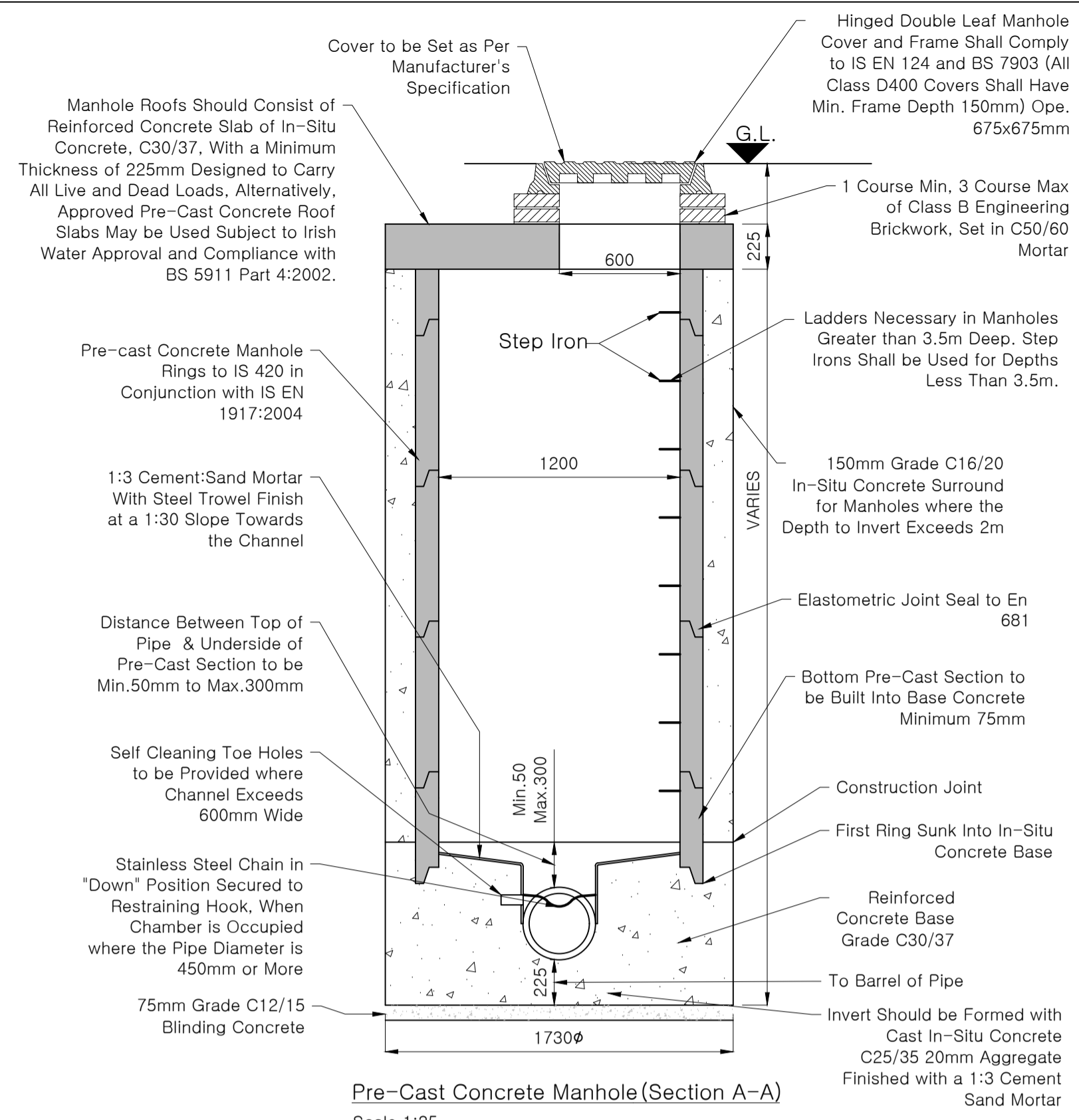
Title: Site Layout
Proposed SuDs Features

Project: Proposed Residential Development,
Coachford,
Co. Cork

ID No: 23028-XX-XX-XX-DR-WDG-CE-010
 Date: Jan 2024
 Drawn by: JP
 Scale: 1:500
 Purpose: P1 - Information

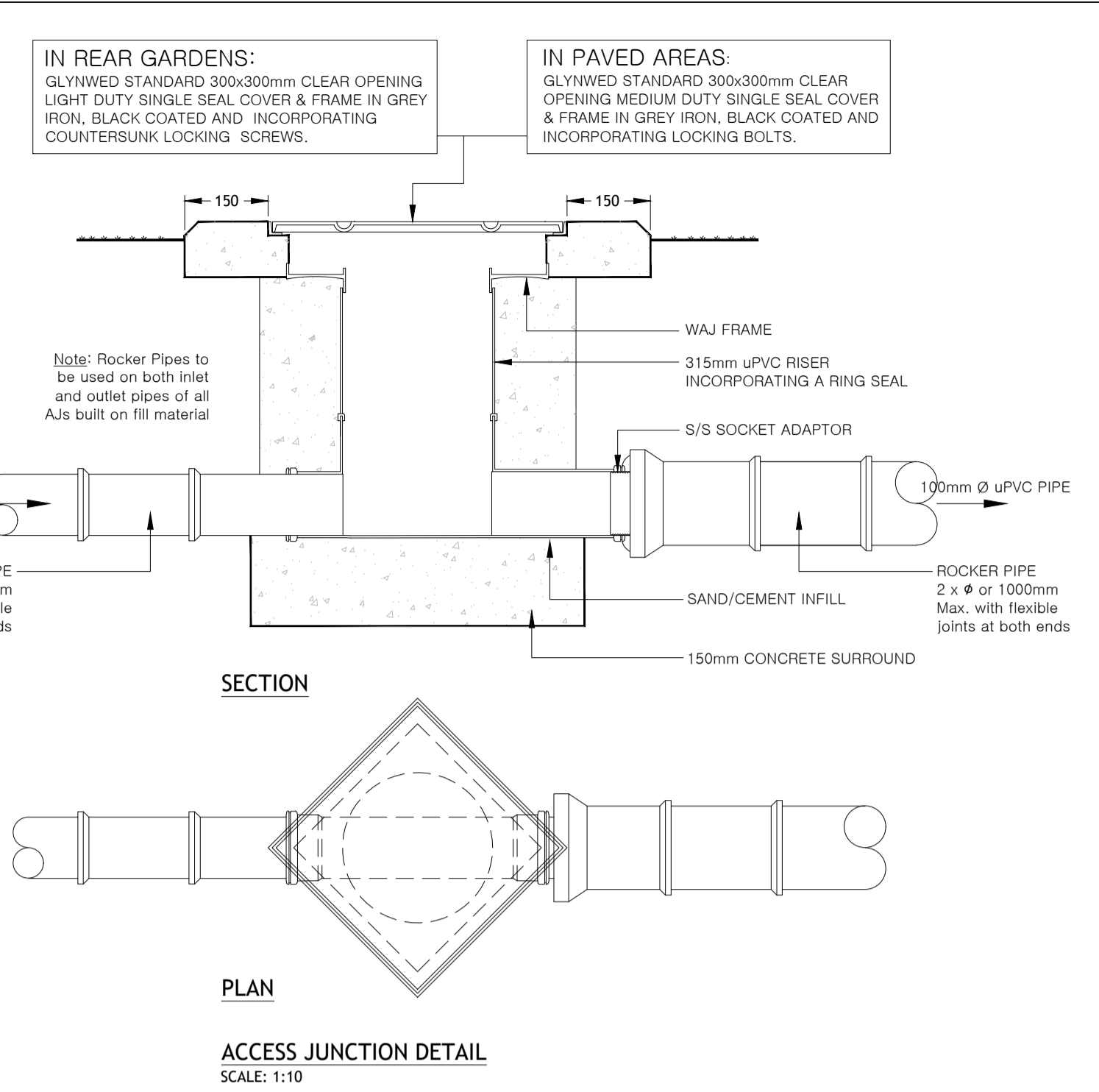
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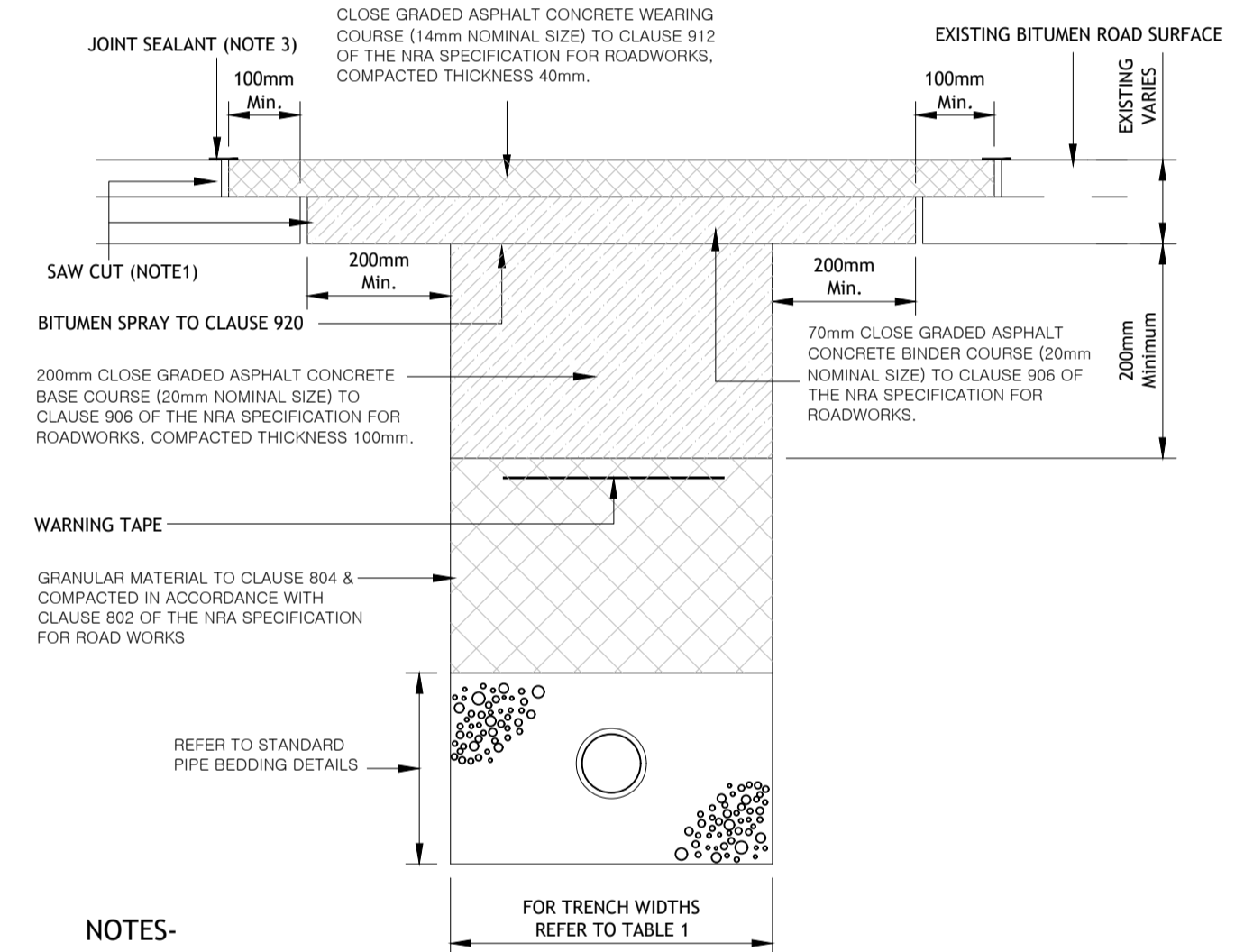


Diameter of Largest Pipe in Manhole (mm)	Internal Diameter of Manhole (mm)
Less than 375	1200
375 to 450	1350
500 to 750	1500

Diameter of Pipe in Manhole (mm)	Length of Pipe (mm)
150 to 450	500 to 750
325 to 750	750 to 1000
900 to 1800	1000 to 1500



PIPE BEDDING DETAILS
All pipe bedding materials and details shall be in accordance with Recommendations for Site Development Works for Housing Areas (DoELG 1998) & Sewers for Adoption 8 - A Design and Construction Guide for Developers.

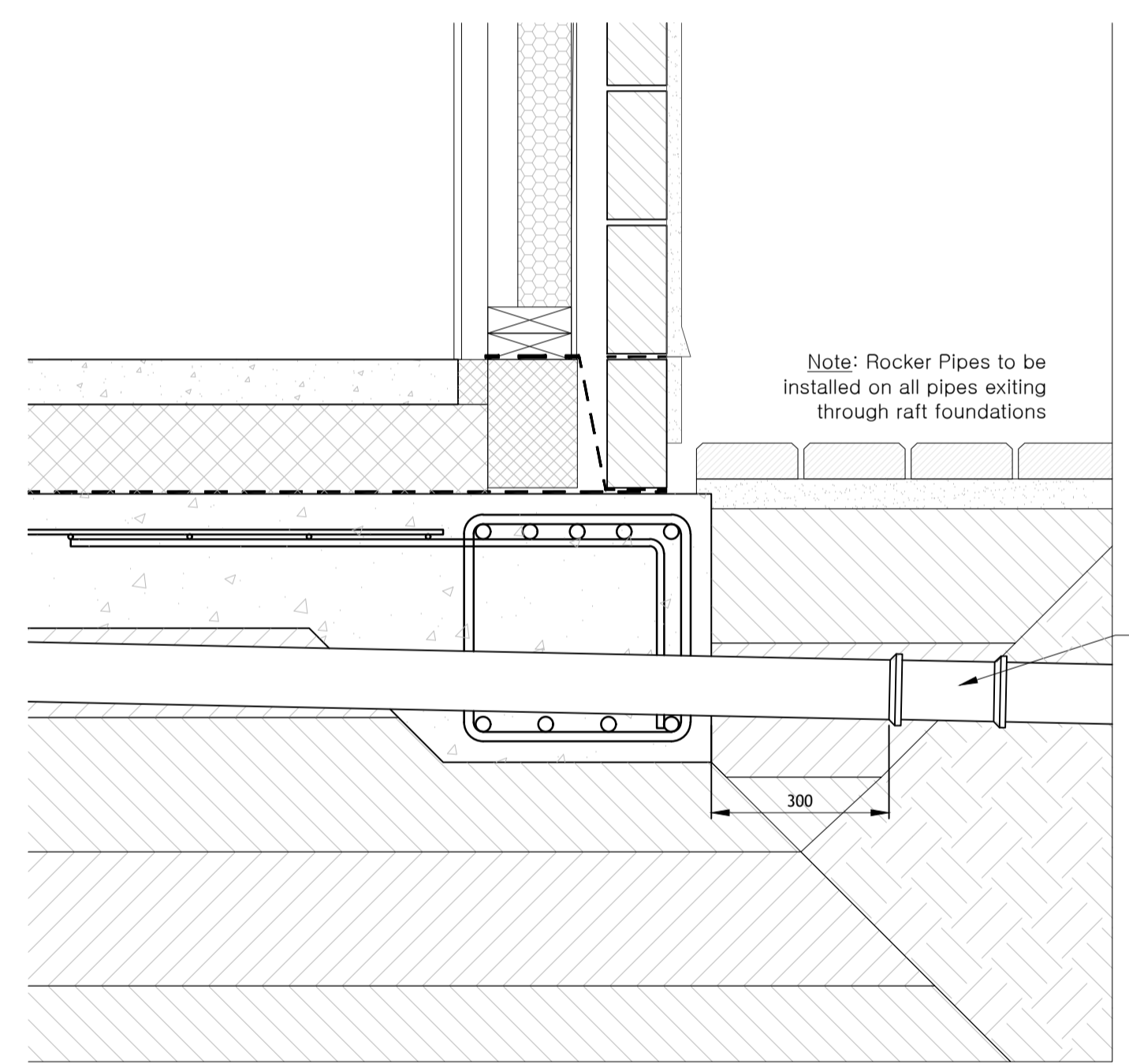
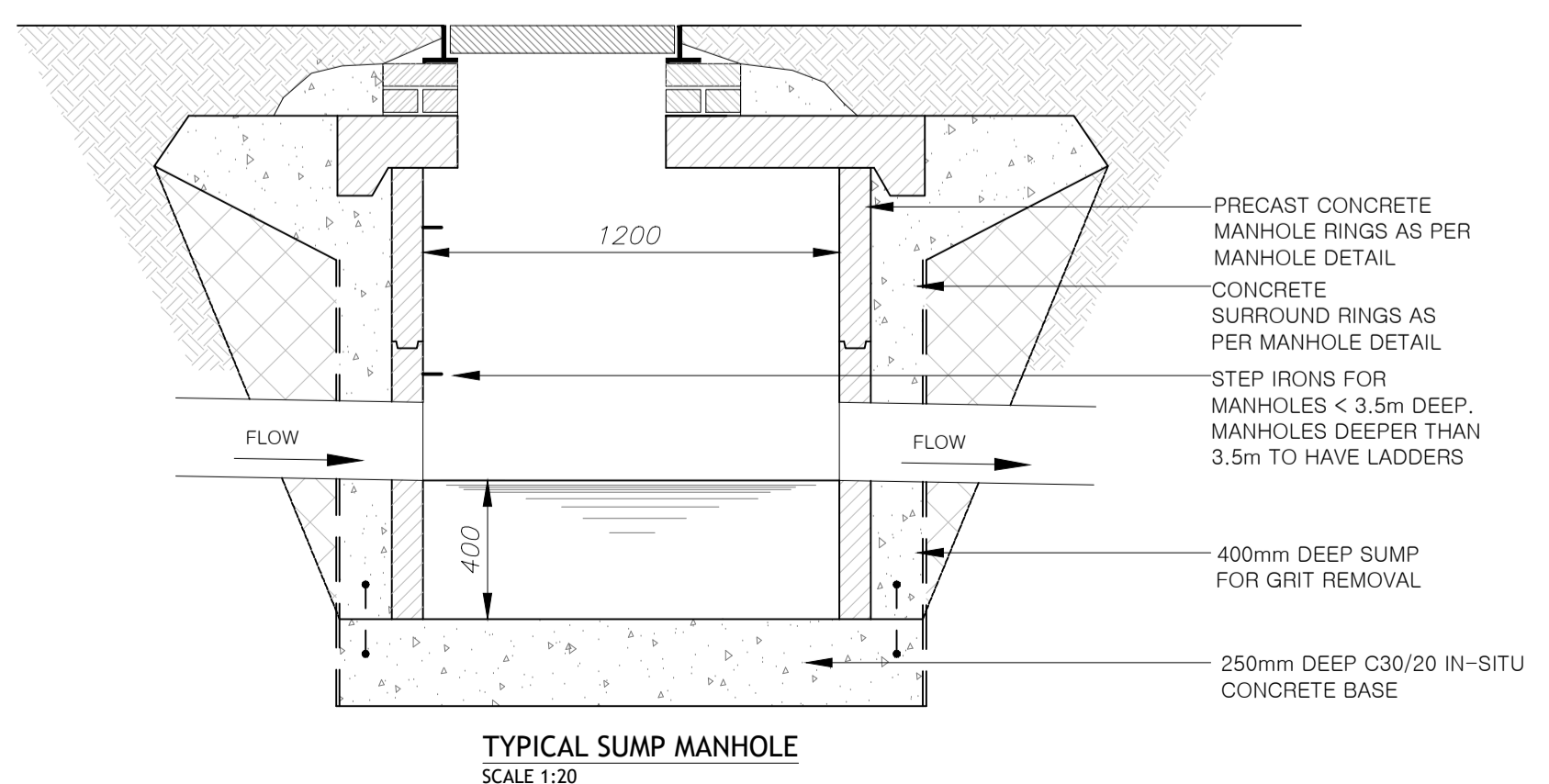


- NOTES-**
- ALL EDGES OF EXCAVATED AREA TO BE SAW CUT AS DETAILED.
 - 100°C HOT BITUMEN BINDER 50 PEN OR COLD THIXOTROPIC BITUMEN 50-70 PEN TO BE APPLIED TO ALL VERTICAL CUTS IN ACCORDANCE WITH BS 584 PRIOR TO THE APPLICATION OF SURFACE LAYERS.
 - JOINTS SEALED WITH HOT BITUMEN AND TOPPED WITH FINE SAND/GRIT TO GET A MINIMUM 55 SKID RESISTANCE VALUE AS DETERMINED BY THE PORTABLE SKID RESISTANCE PENDULUM SHALL NOT EXCEED 3mm THICKNESS AND A WIDTH OF 40mm.

NOMINAL PIPE DIAMETER (mm)	100	150	225	300	375	450	525	600	750	900	1050	1200	1200
TRENCH WIDTH MIN (mm)	450	500	600	700	950	1050	1150	1250	1400	1950	2100	2300	2450
TRENCH WIDTH MAX (mm)	650	700	800	900	1150	1250	1350	1450	1600	2150	2300	2500	2650

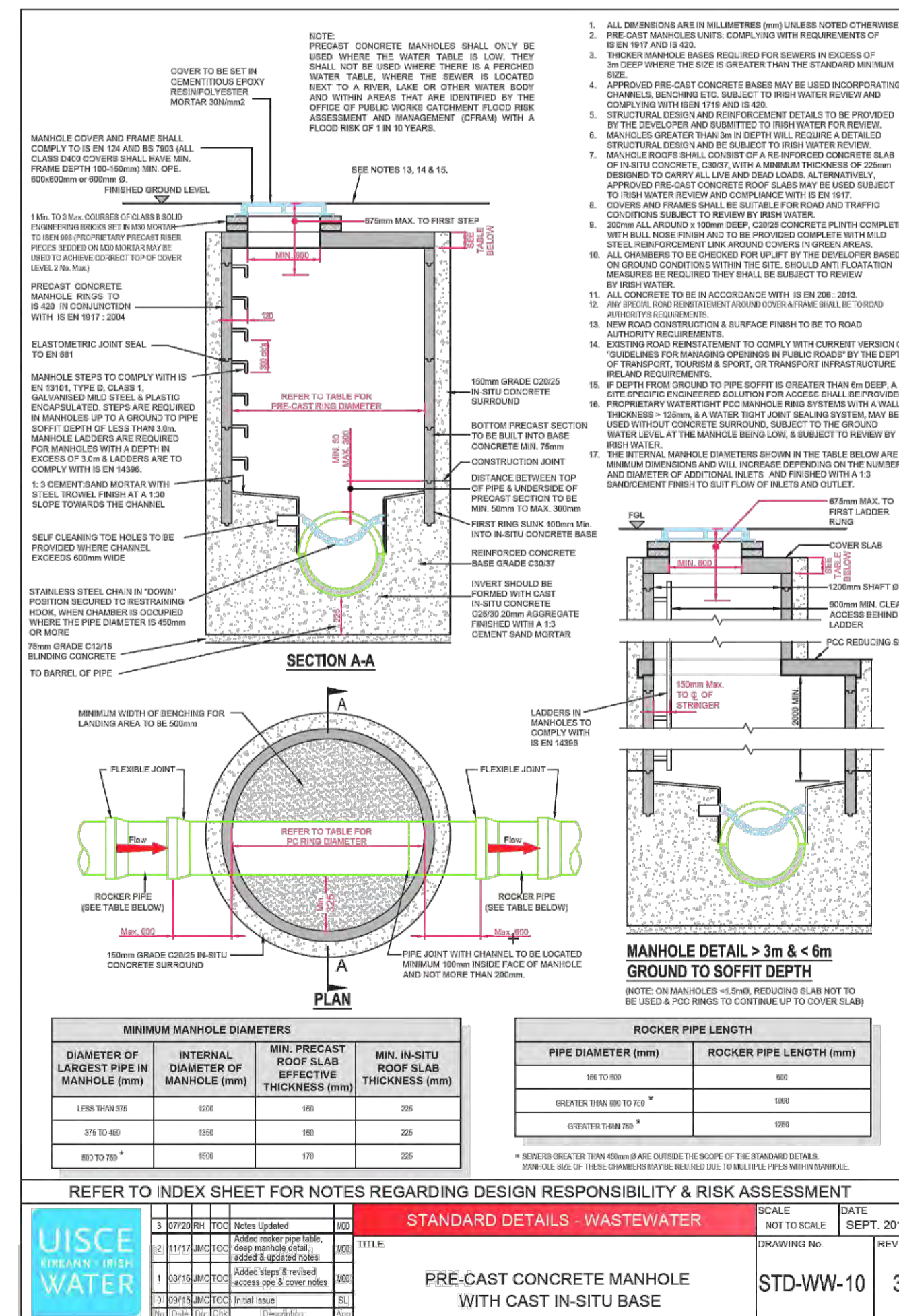
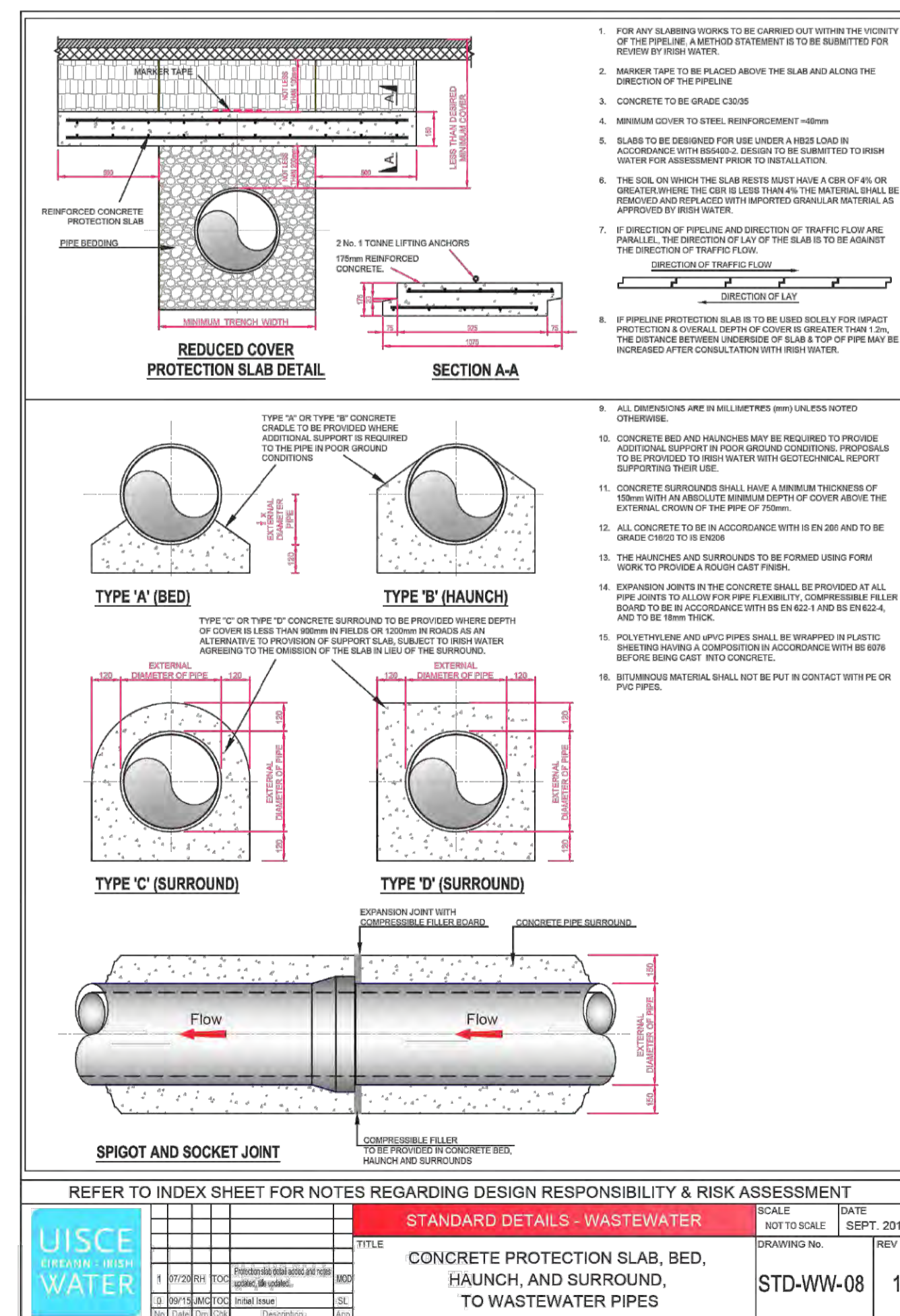
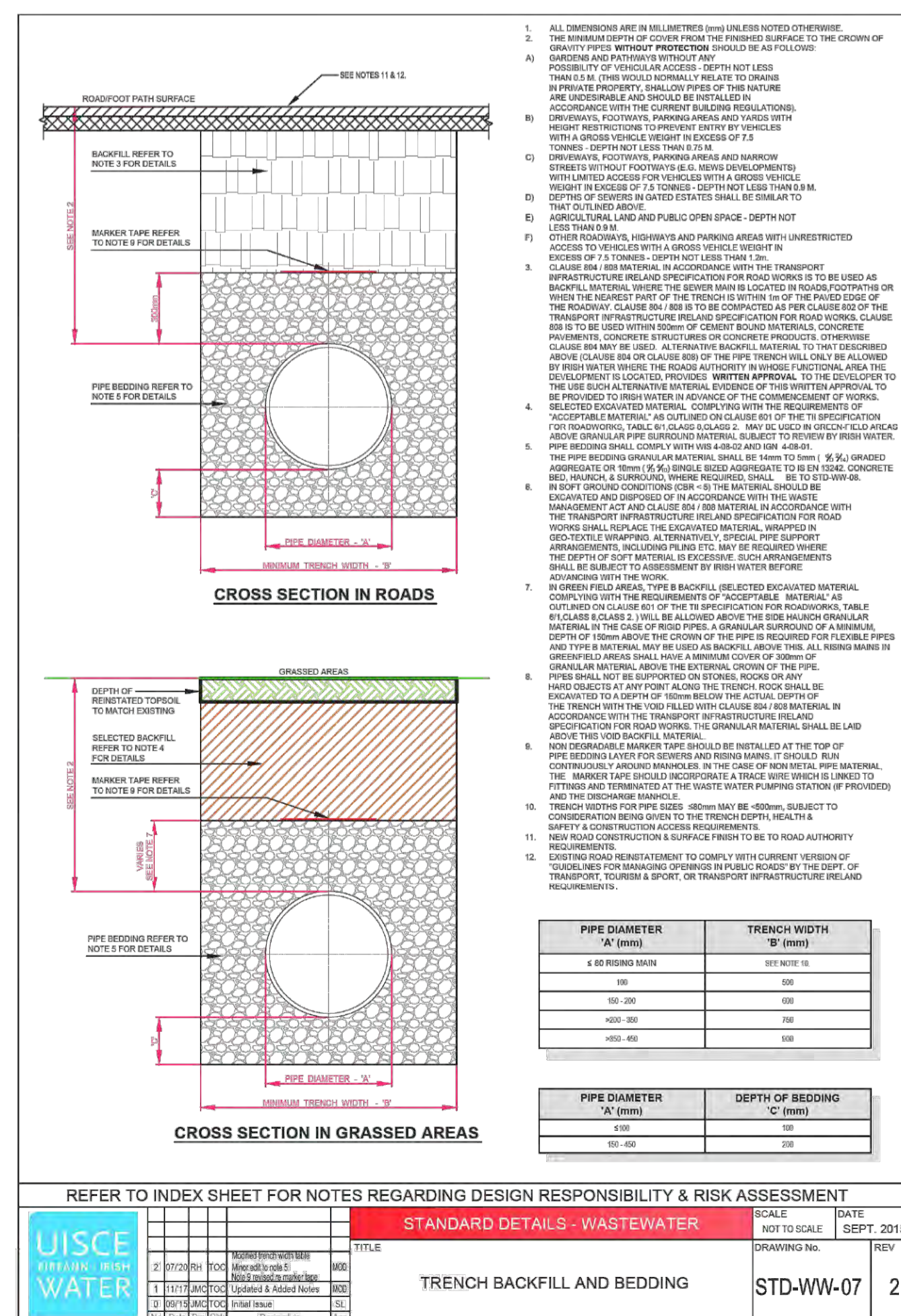
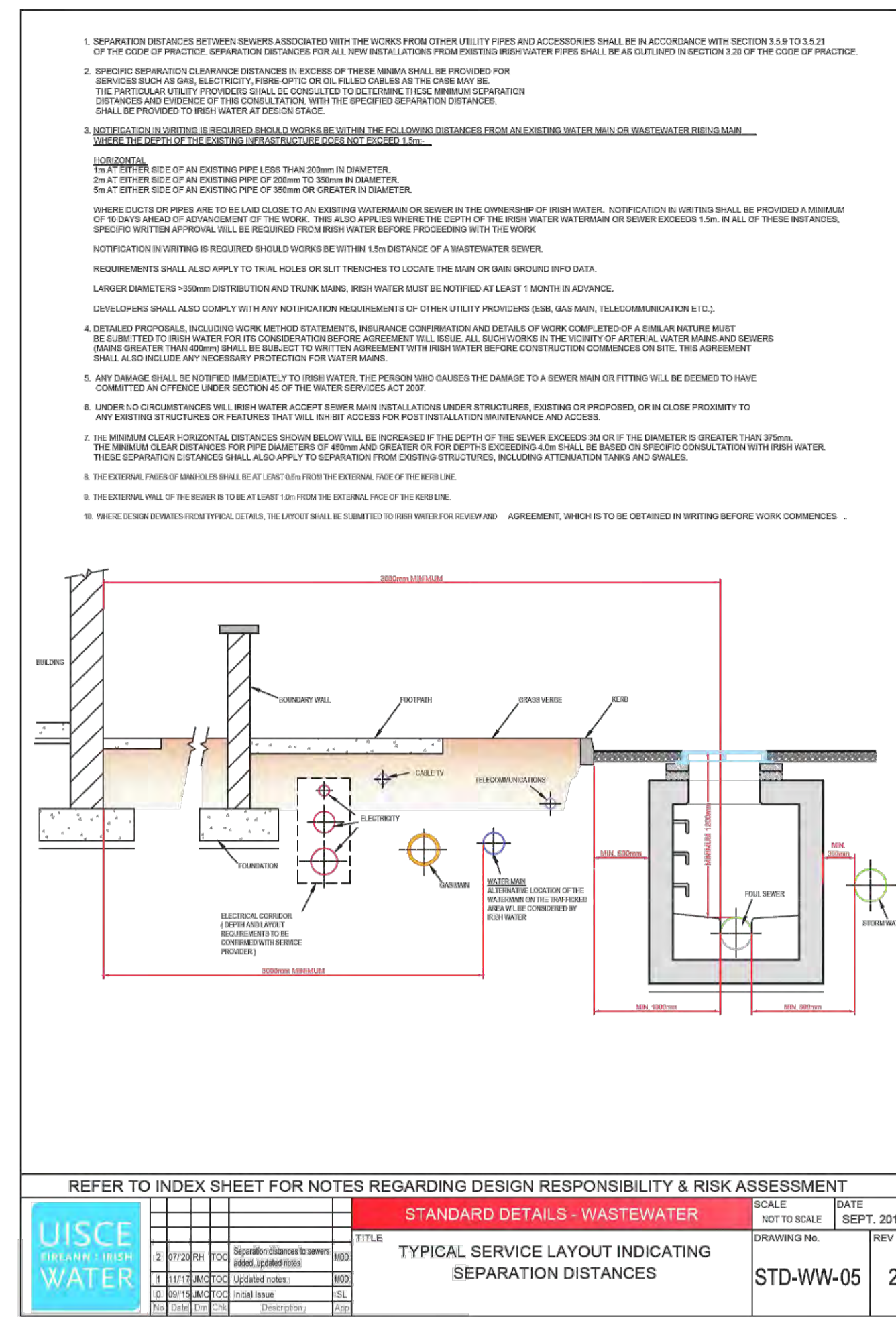
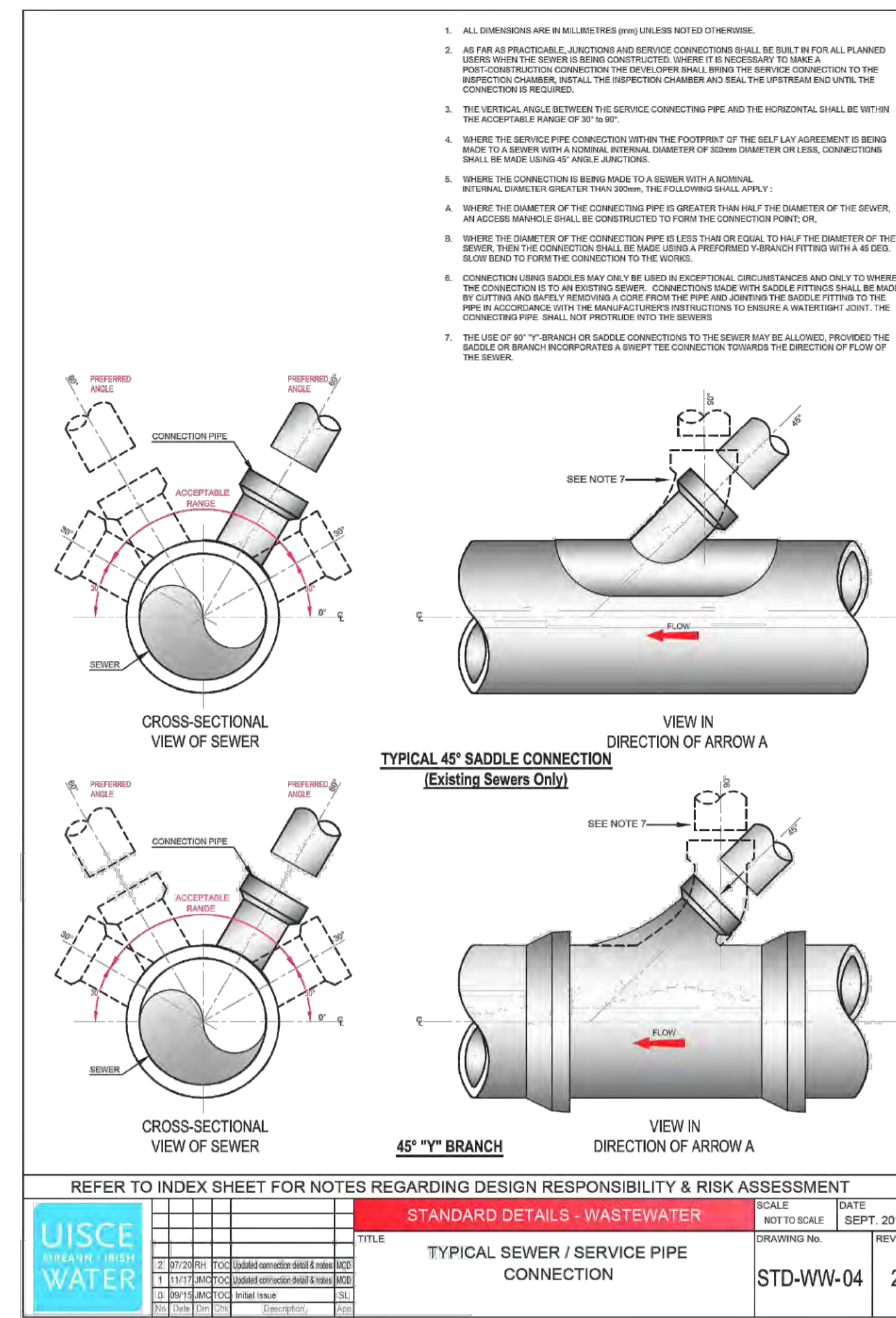
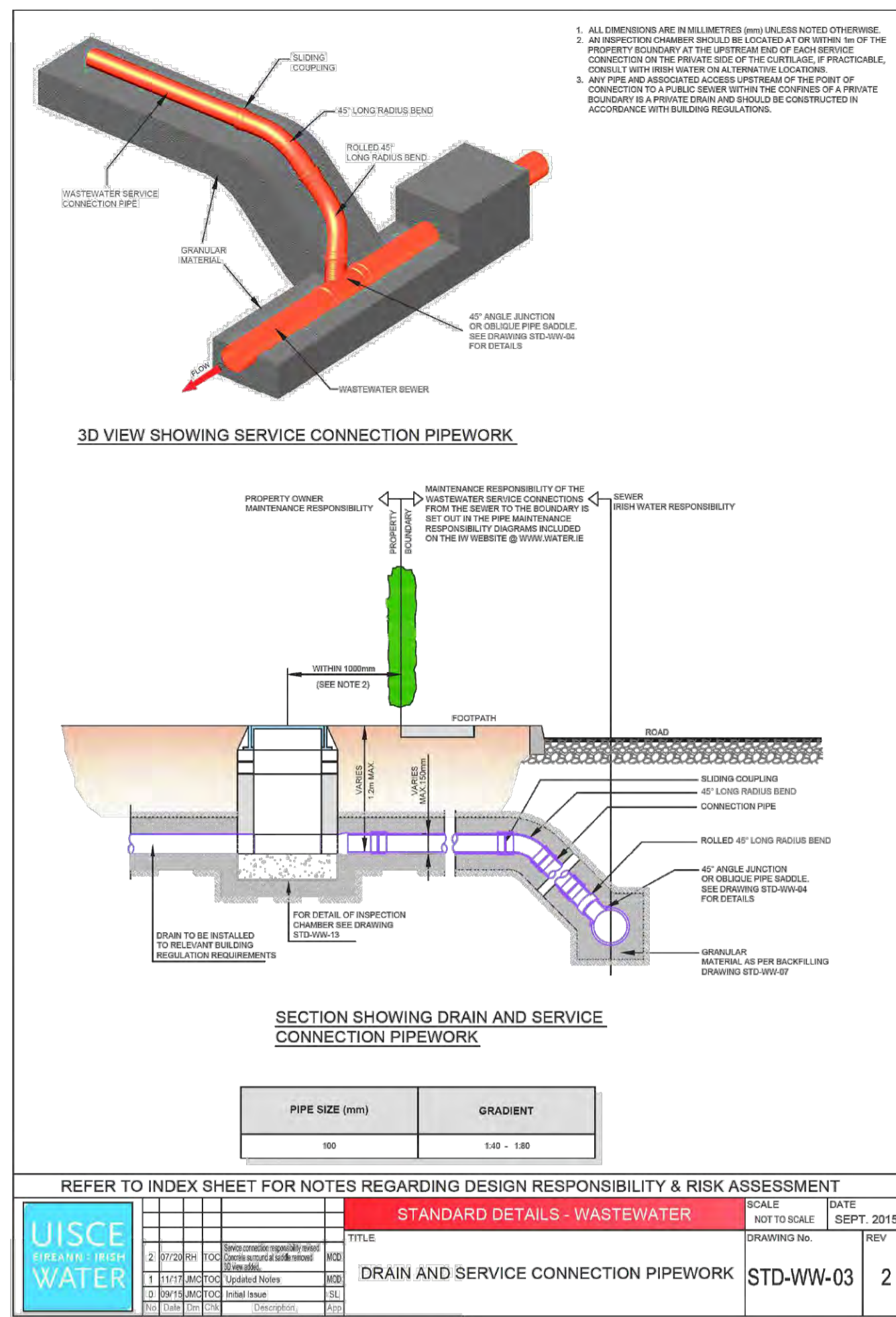
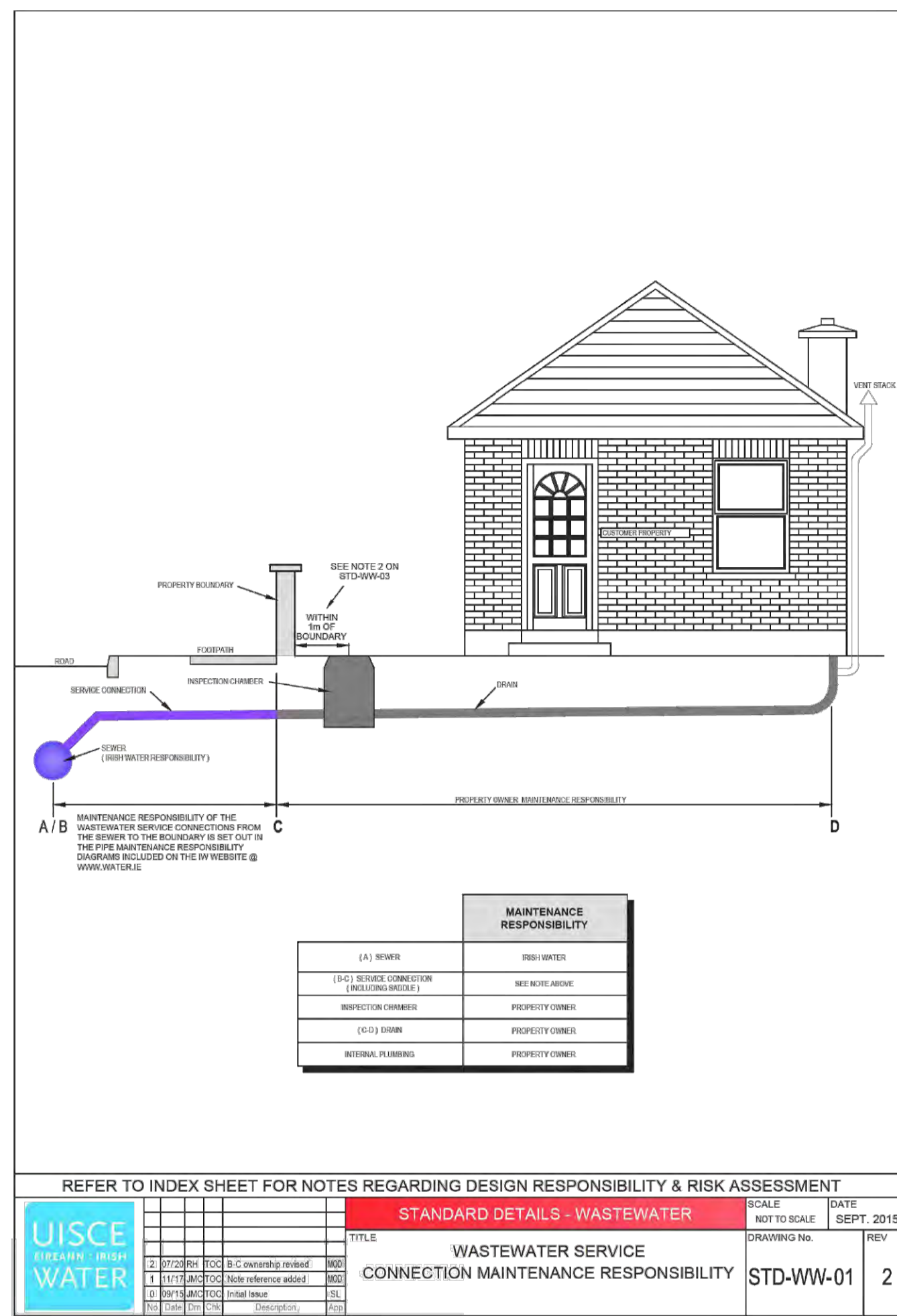
NOMINAL PIPE DIAMETER (mm)	100	150	200	250	300
TRENCH WIDTH MIN (mm)	450	450	600	600	700
TRENCH WIDTH MAX (mm)	600	600	700	700	850

TABLE 1 - TRENCH WIDTHS PAVEMENT REINSTATEMENT DETAILS
NOT TO SCALE



- NOTES - General Pre-Cast Manhole**
- All dimensions are in millimetres, unless noted otherwise.
 - Pre-Cast Manhole Units: Complying with requirements of IS EN 1917 and BS 5911-Part 3.
 - Thicker Manhole bases required for sewers in excess of 3m deep where the size is greater than the standard minimum size.
 - Approved Pre-Cast Concrete Bases may be used incorporating channels, benching etc. subject to Irish Water for review.
 - Manhole roofs should consist of reinforced concrete slab of in-situ concrete, C30/37, with a minimum thickness of 225mm designed to carry all live and dead loads. Alternatively, approved pre-cast concrete roof slabs may be used subject to Irish Water approval and compliance with BS 5911 Part 4:2002.
 - Covers and Frames shall be suitable for road and traffic conditions subject to approval from Cork County Council.
 - 200mm all around, 100mm deep concrete plinth with protective stainless steel metal band around covers in green areas.
 - All chambers to be checked for uplift by the developer based on ground conditions within the site. Should anti-floatation measures be required they shall be subject to approval from Irish Water.
 - All Concrete to be in Accordance with IS EN 206:2013.
 - Benching to be formed of Grade 20/40 concrete and finished with a rendering of 25mm of Class 'B' cement mortar.
 - Concrete surround to be provided to manhole rings where depth to invert exceeds 2.0m or as directed by the Engineer.
- NOTES - Backdrop Manhole**
- All dimensions are in millimetres, unless noted otherwise.
 - Rodding eye chamber shall be covered with approved heavy duty metal covers to IS 261 and BS 5834. Cover and frame shall be suitable for road and traffic conditions and is subject to the approval of Irish Water.
 - Manhole details to be in accordance with STD-WW-10 & 12 as set out in "Irish Water Connection and Developer Service (Wastewater Infrastructure Standard Details)"

Drawn by	IR	Scale	As shown
Rev	0		
<p>walsh design group</p> <p>Consulting Engineers</p> <p>The Mall, Manorbennet Woods, Douglas, Cork</p> <p>Tel: 021-4774940 email: info@walsh.ie</p>			
Project	Proposed Residential Development, Coachford, Co. Cork		
File	Surface Water Drainage Typical Details		
17 No.	23028-XX-XX-XX-DR-WDG-CE-500		
Date	Feb 2024		
Drawn by	IR		
Scale	As shown		
Purpose	P3 - Planning		



Standard Irish Water Detail References:

- STD-WW-01 Water service connection responsibility
- STD-WW-03 Drain & Service connection pipework
- STD-WW-04 Typical Sewer / Service pipe connection
- STD-WW-05 Typical Service layout indicating separation distances
- STD-WW-07 Trench Backfill & Bedding
- STD-WW-08 Concrete bed, Haunch & surround to wastewater pipes
- STD-WW-10 Pre-cast concrete manhole with cast in-situ base

Refer to dwg no. 23028-XX-XX-XX-DR-WDG-CE-002 for plan layout

Uisce	IRISH WATER
3	23028-XX-XX-XX-DR-WDG-CE-002
1	23028-XX-XX-XX-DR-WDG-CE-002
2	23028-XX-XX-XX-DR-WDG-CE-002

walsh design group

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Tel: 021-4774940 email: info@walsh.ie

File: Irish Water Standard Details Wastewater

Project: Proposed Residential Development, Co. Cork

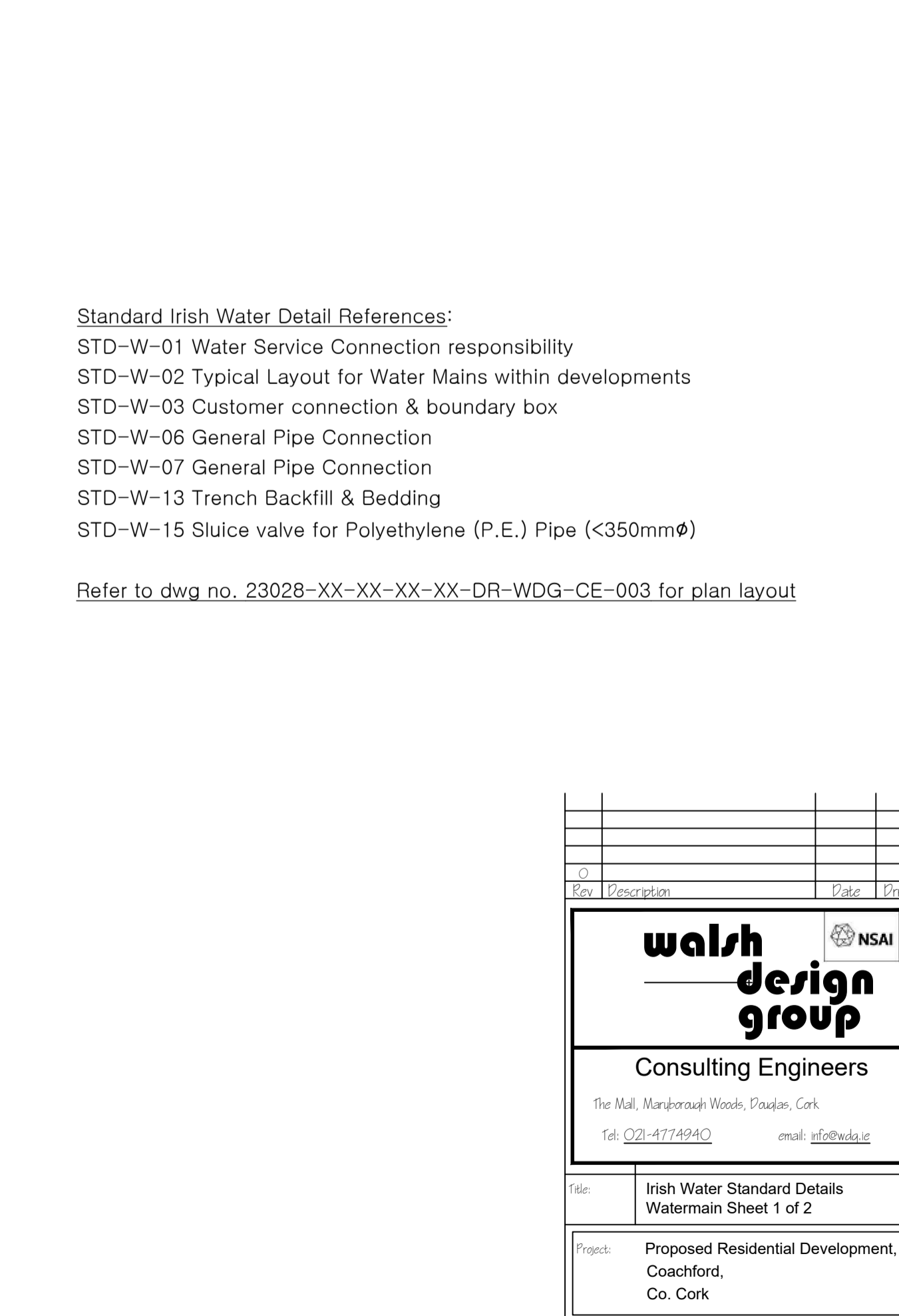
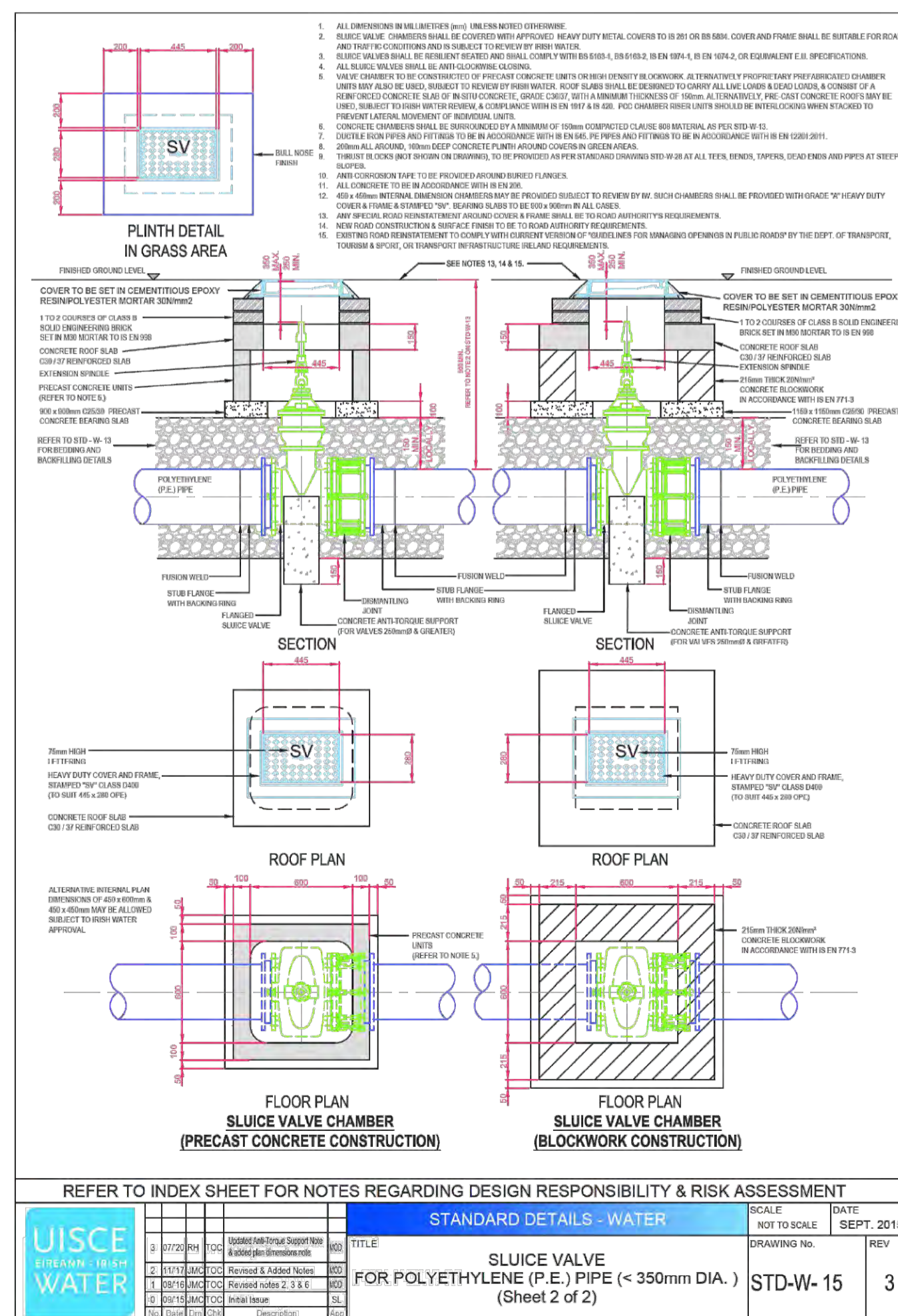
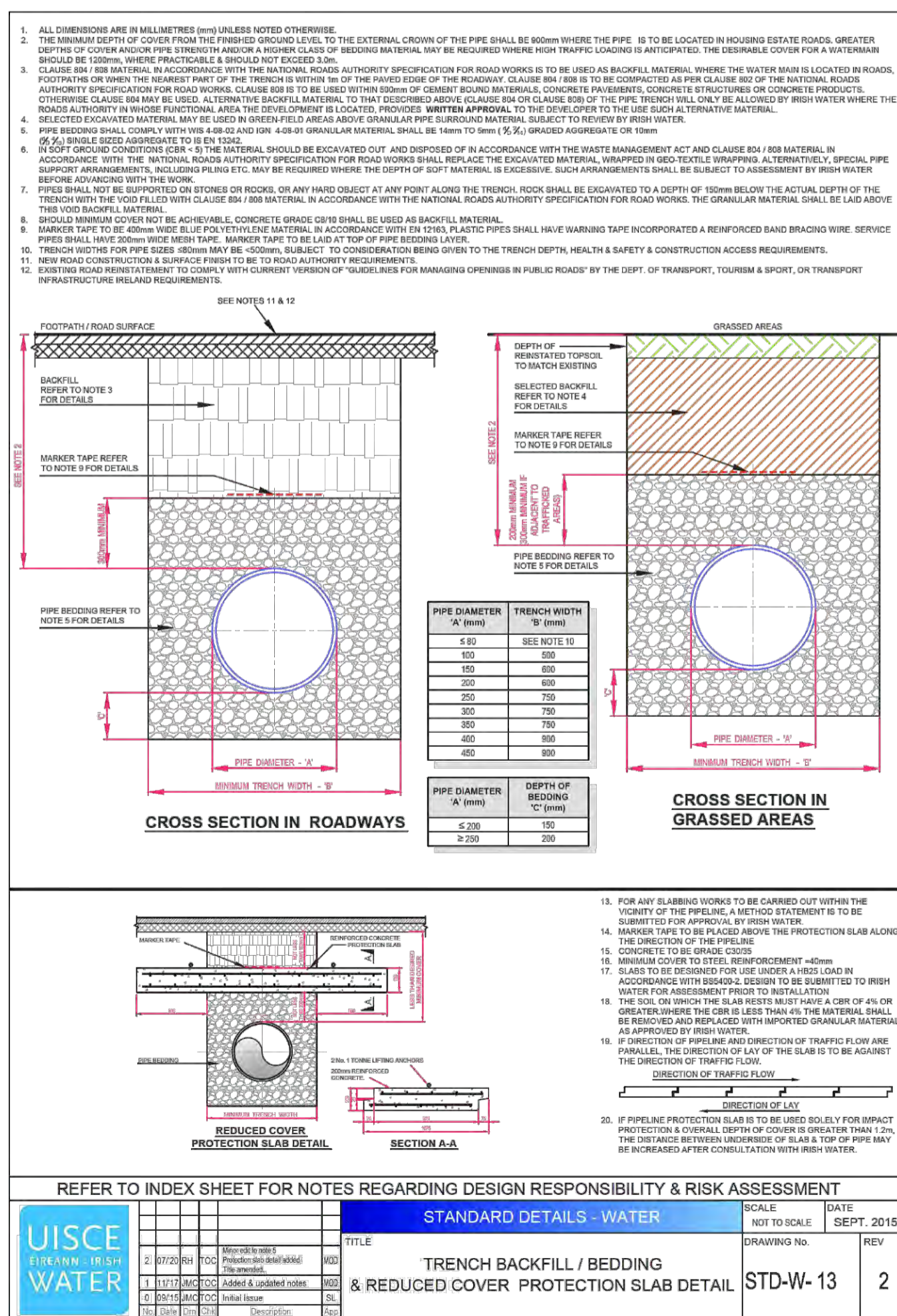
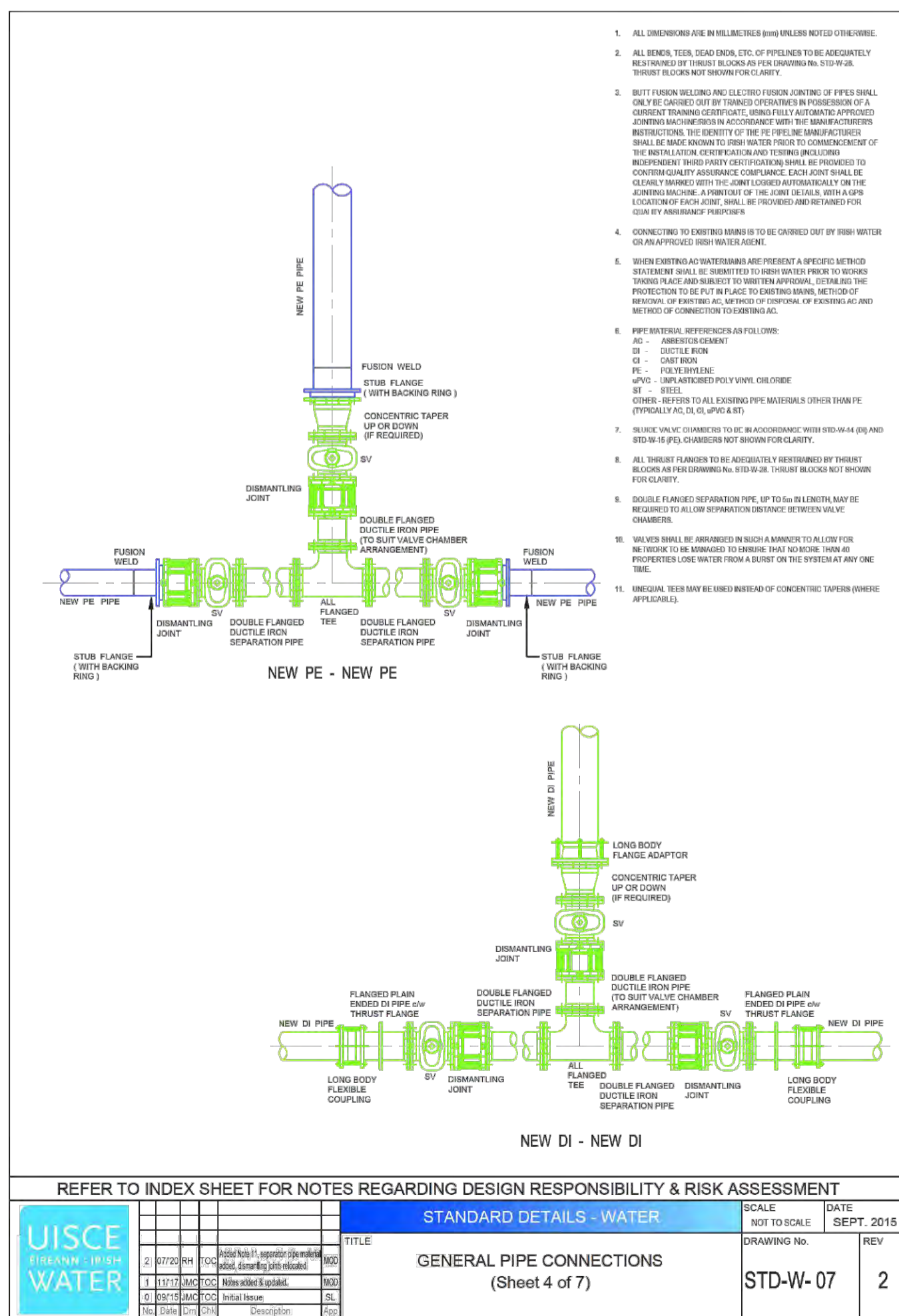
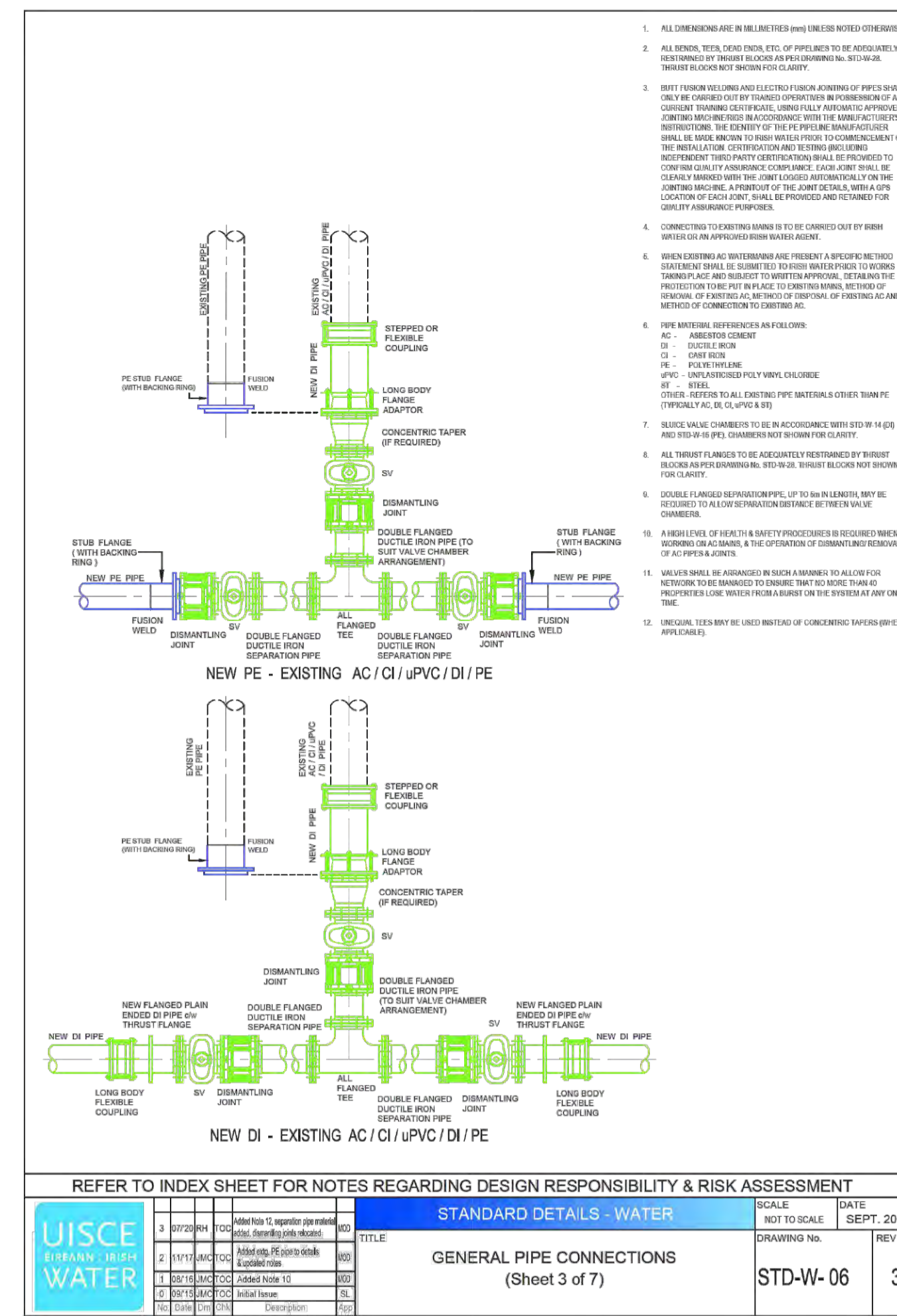
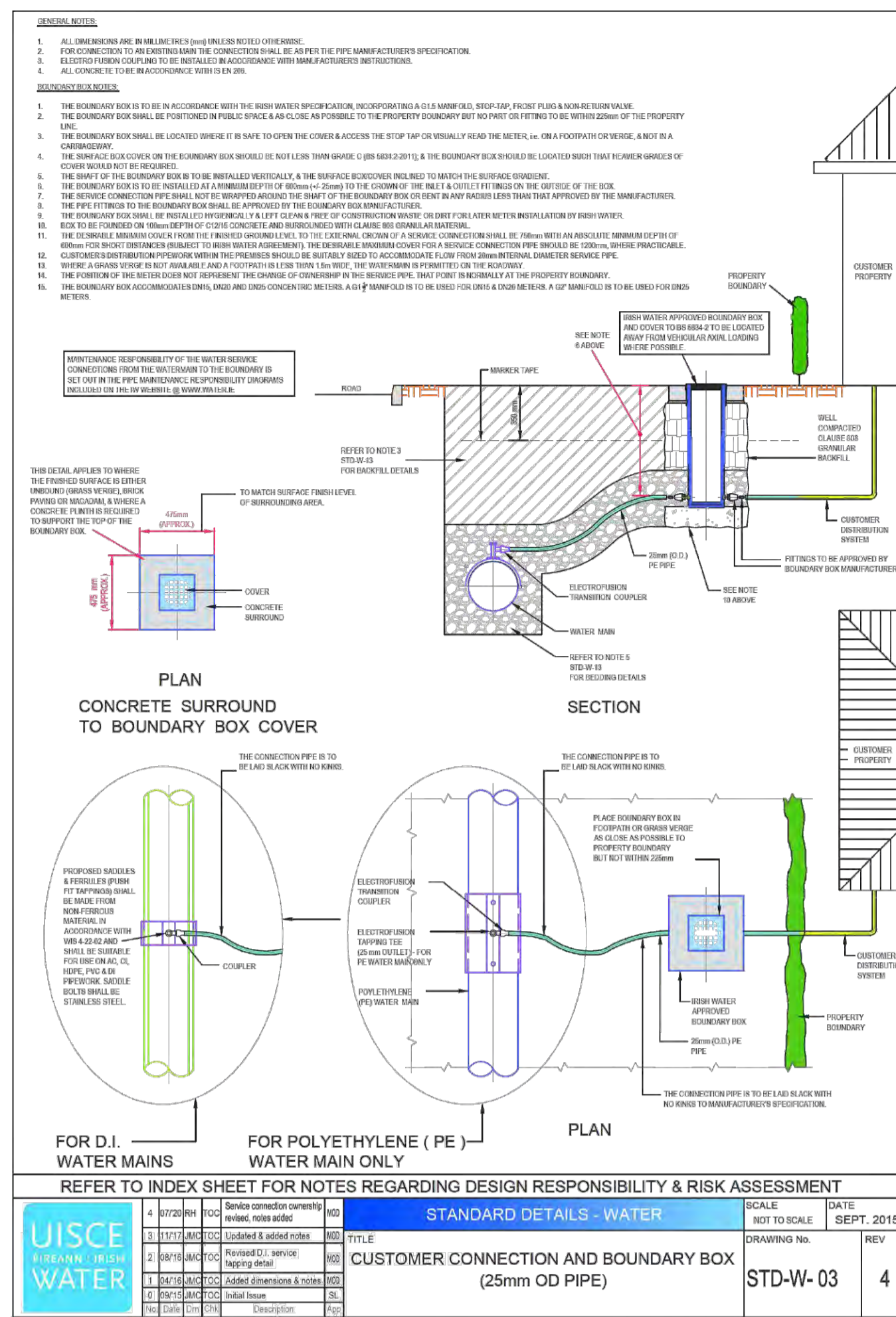
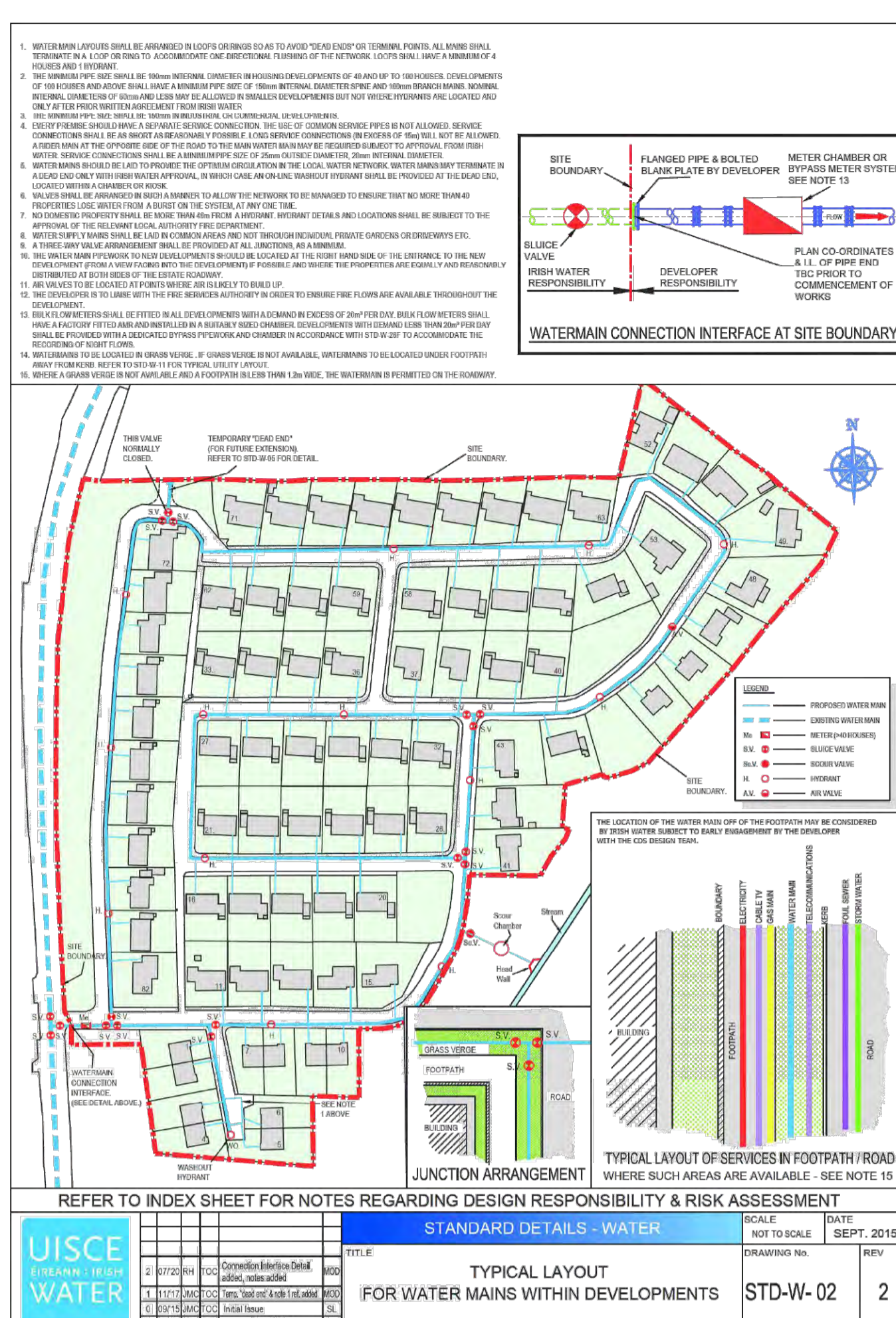
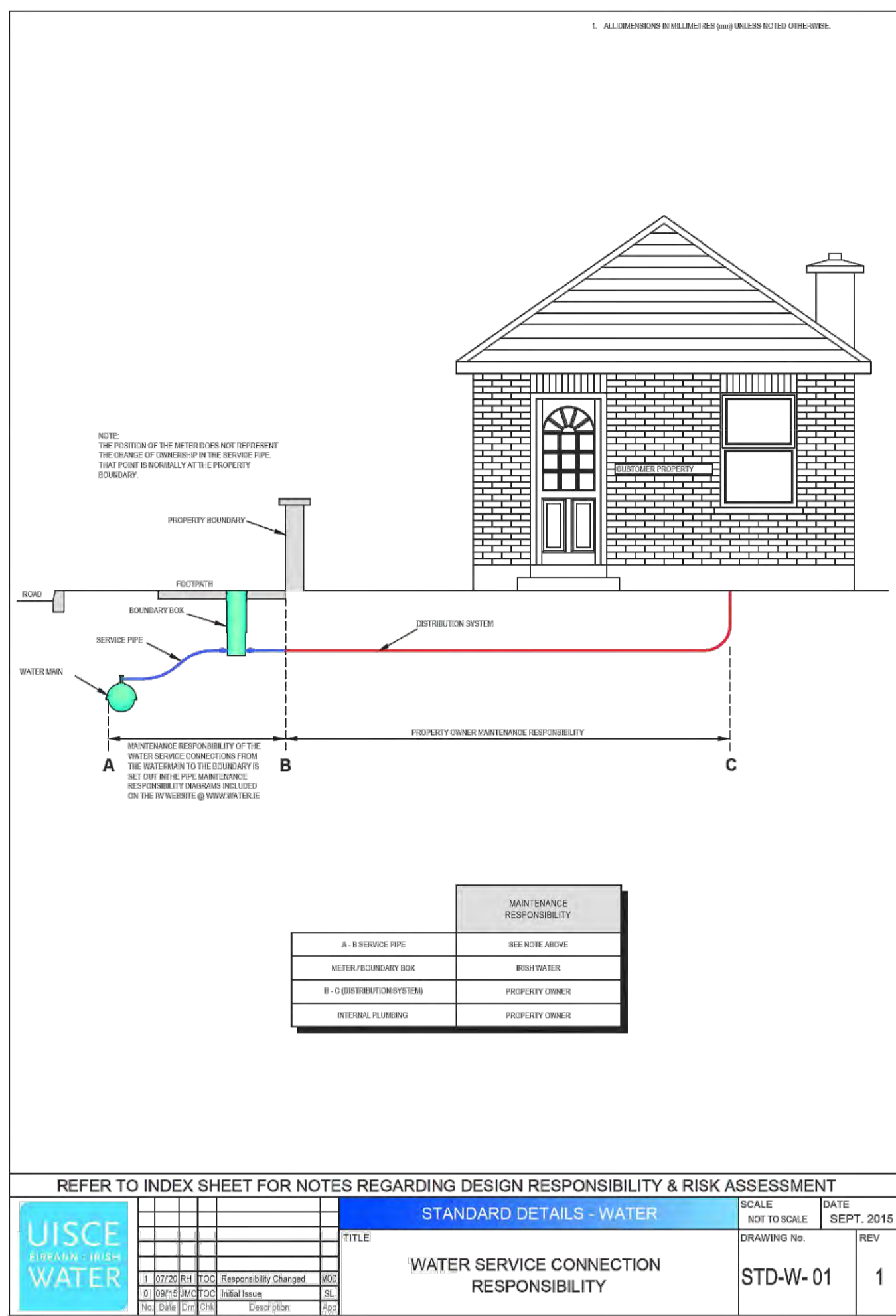
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Scale: As shown

Purpose: P3 - Planning

Date: Feb 2024

Revision: 0

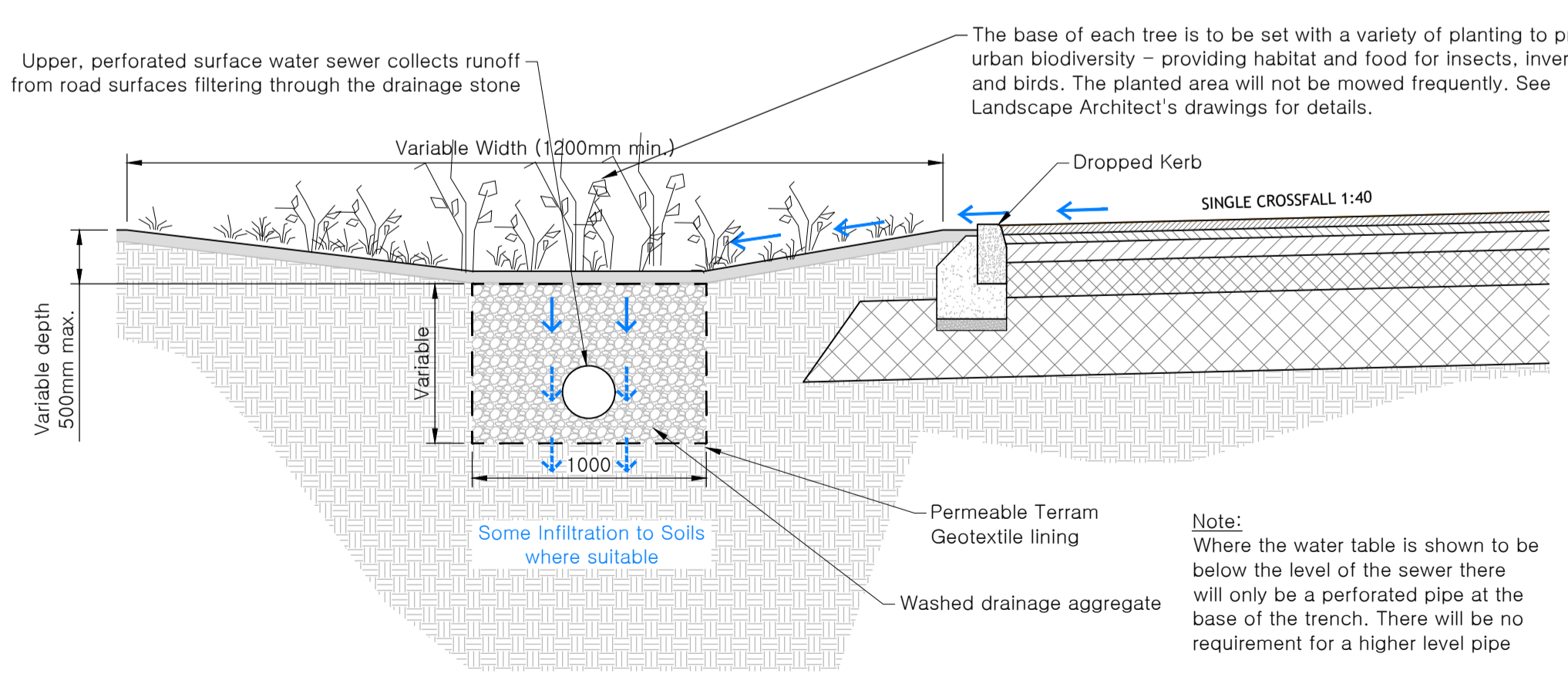
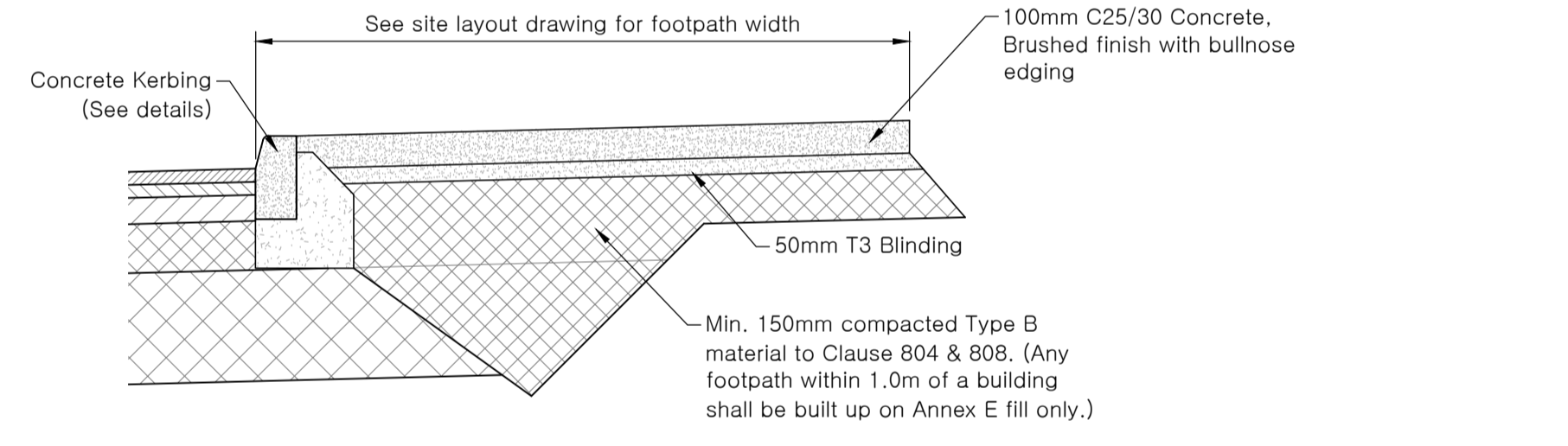
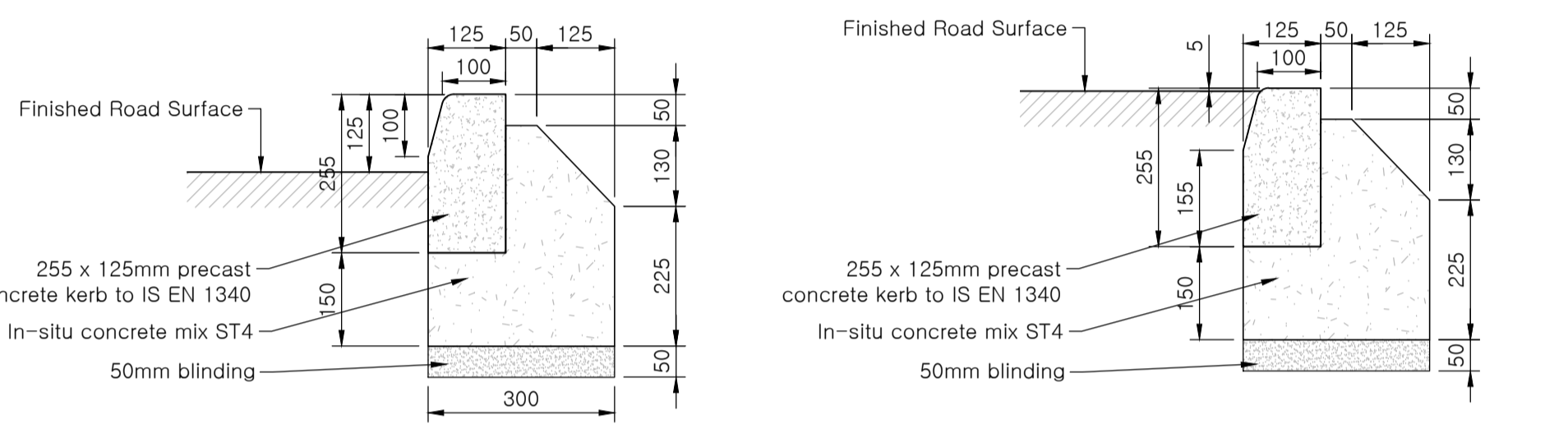
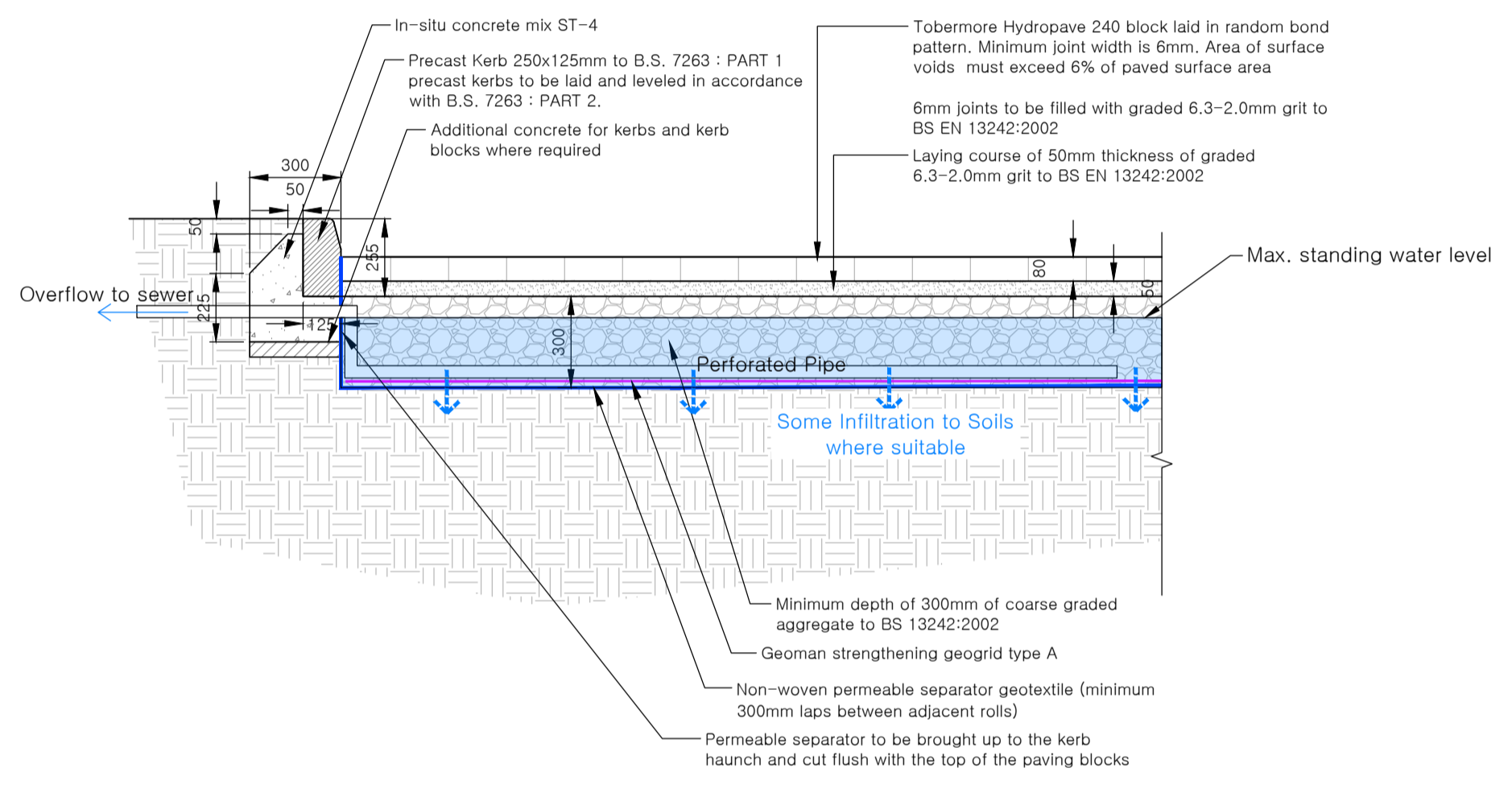
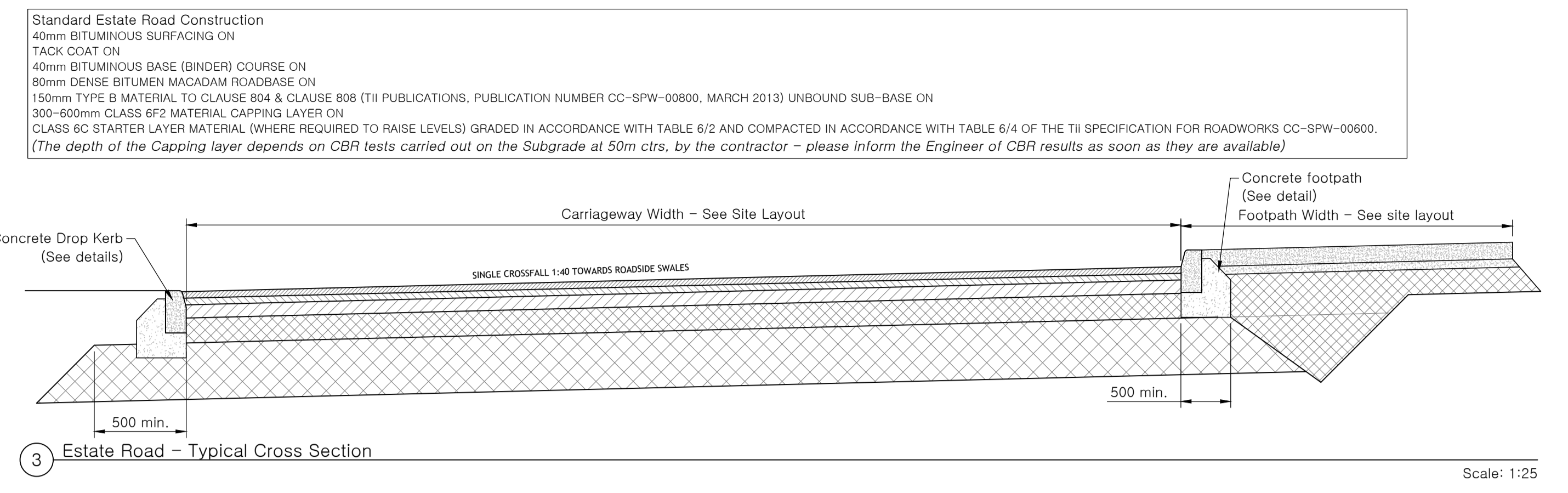
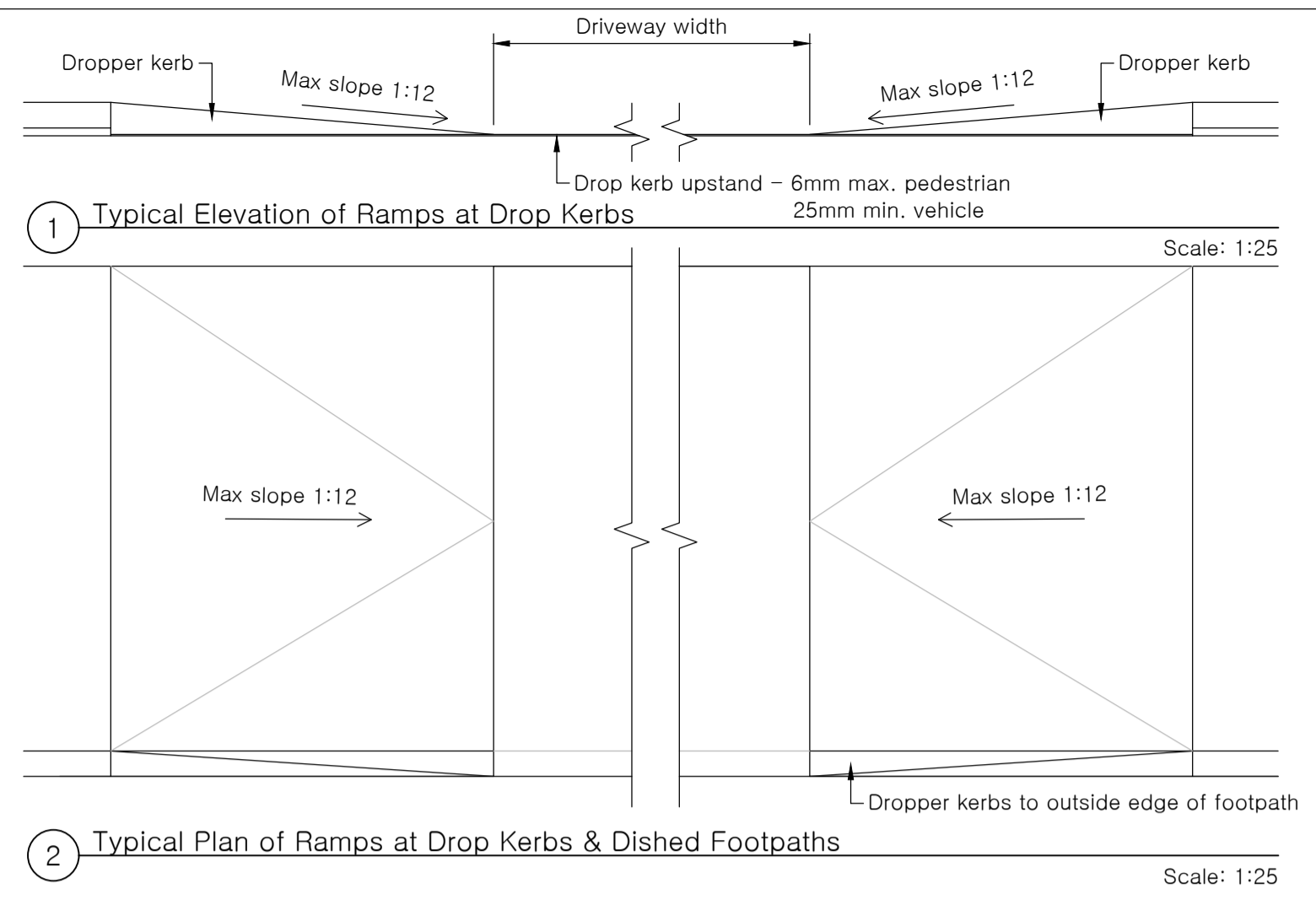


Project: Proposed Residential Development, Co. Cork

Scale: As shown

Revision: 0

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Prepared for plans	15/02/24	IP	MM
Rev	Description	Date	Drn / Ckd
walsh design group			
Consulting Engineers			
The Mill, Manorbennet Woods, Douglas, Cork			
Tel: 021-4774940 email: info@wdsdg.ie			
Title:	Construction Details		
Project:	Residential Development Coachford, Co. Cork		
IP No:	23028-XX-XX-XX-DR-WDG-CE-504		
Date:	January 2024		
Drawn by:	IR		
Scale:	As Shown		
Purpose:	P3 - Planning		
0			

Project:
**Residential Housing Development,
At Coachford, Co. Cork**

WDG Job No.: 23028
Project ID: xxxxx

Document Register

		Date of Issue																		
		Day	23	7	18	17	9	15		22	28	29	4							
		Month	11	12	12	1	2	2		2	2	2	3							
		Year	23	23	23	24	24	24		23	24	24	24							
Document ID	Title	%	0	1	2	3	4	5		7	8	9	10							
Site Layout Drawings																				
23028-XX-XX-XX-DR-WDG-CE-001	Site Layout - Roads and Levels					0	0	0				3								
23028-XX-XX-XX-DR-WDG-CE-002	Site Layout - Drainage					0	0	0				3								
23028-XX-XX-XX-DR-WDG-CE-003	Site Layout Plan - Proposed Public Footpath					0		0			0		1							
23028-XX-XX-XX-DR-WDG-CE-004	Plot 1 - Extents of Public Footpath	0																		
23028-XX-XX-XX-DR-WDG-CE-005	Plot 2 - Extents of Public Footpath	0											1							
23028-XX-XX-XX-DR-WDG-CE-006	Plot 3 - Extents of Public Footpath	0	1										2							
23028-XX-XX-XX-DR-WDG-CE-007	Plot 4 - Extents of Public Footpath	0	1																	
23028-XX-XX-XX-DR-WDG-CE-008	Site Layout - Storm Sewer					0	0	0												
23028-XX-XX-XX-DR-WDG-CE-009	Site Layout - Watermains Layout					0	0	0					3							
23028-XX-XX-XX-DR-WDG-CE-010	Site Layout - Proposed SUDS Features					0	0	0					3							
Standard Details																				
23028-XX-XX-XX-DR-WDG-CE-500	Surface Water Drainage - Typical Details							0												
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23028-XX-XX-XX-DR-WDG-CE-503	Irish Water Standard Details - Watermains 2 of 2							0												
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Documents																				
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23028-XX-XX-XX-RP-WDG-CE-002	Construction and Environmental Management plan							0												
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Architect					C	C	C					C	C							
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Civil / Structural Consultant																				
Consulting Engineers																				
Main Contractor																				
Landscape Architect					C	C	C					C	C							
M&E Consultant					C	C	C					C	C							
Ecologist					C	C	C					C	C							
Local Authority											E									
Quantity Surveyor					C	C	C					E	C	C						
Purpose of Issue																				
P1 - Information		X	X	X	X	X	X			X	X									
P2 - Coordination																				
P3 - Planning Permission													X	X						
P4 - Fire Safety Cert Application																				
P5 - Disability Access Cert Application																				
P6 - Building Control Compliance																				
P7 - Pre-Tender																				
P8 - Tender																				
P9 - Contract / Construction																				
P10 - Handover																				
P11 - Other																				

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