## Proposed Surface Water Drainage Works







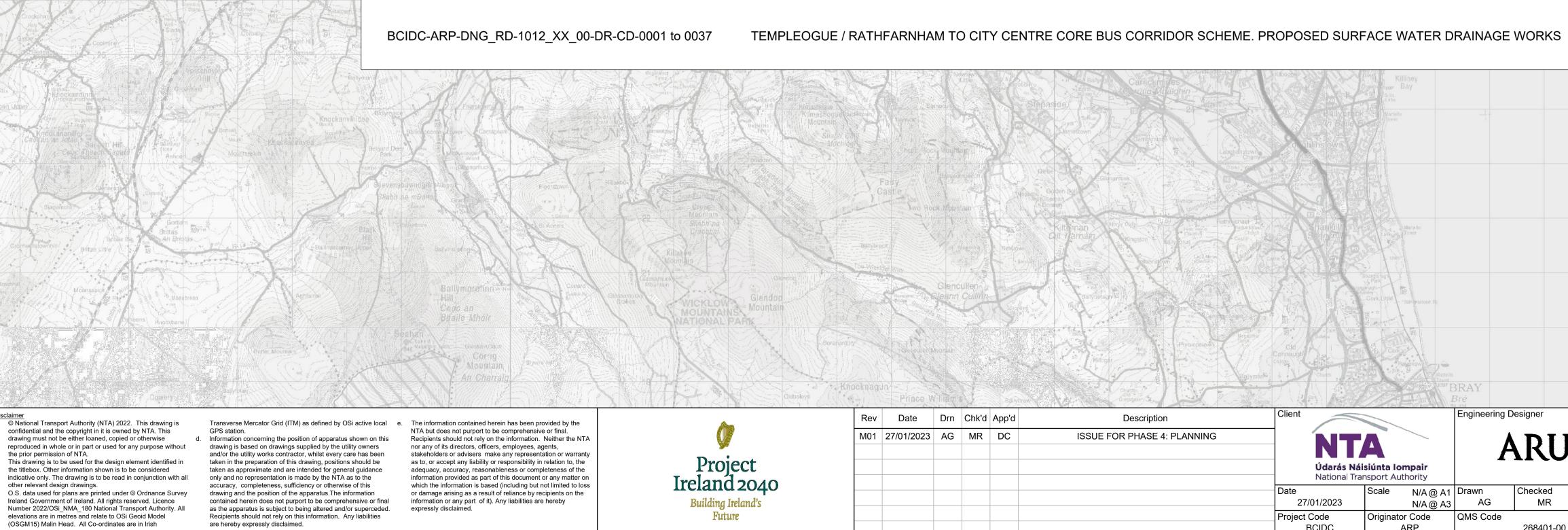
# **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

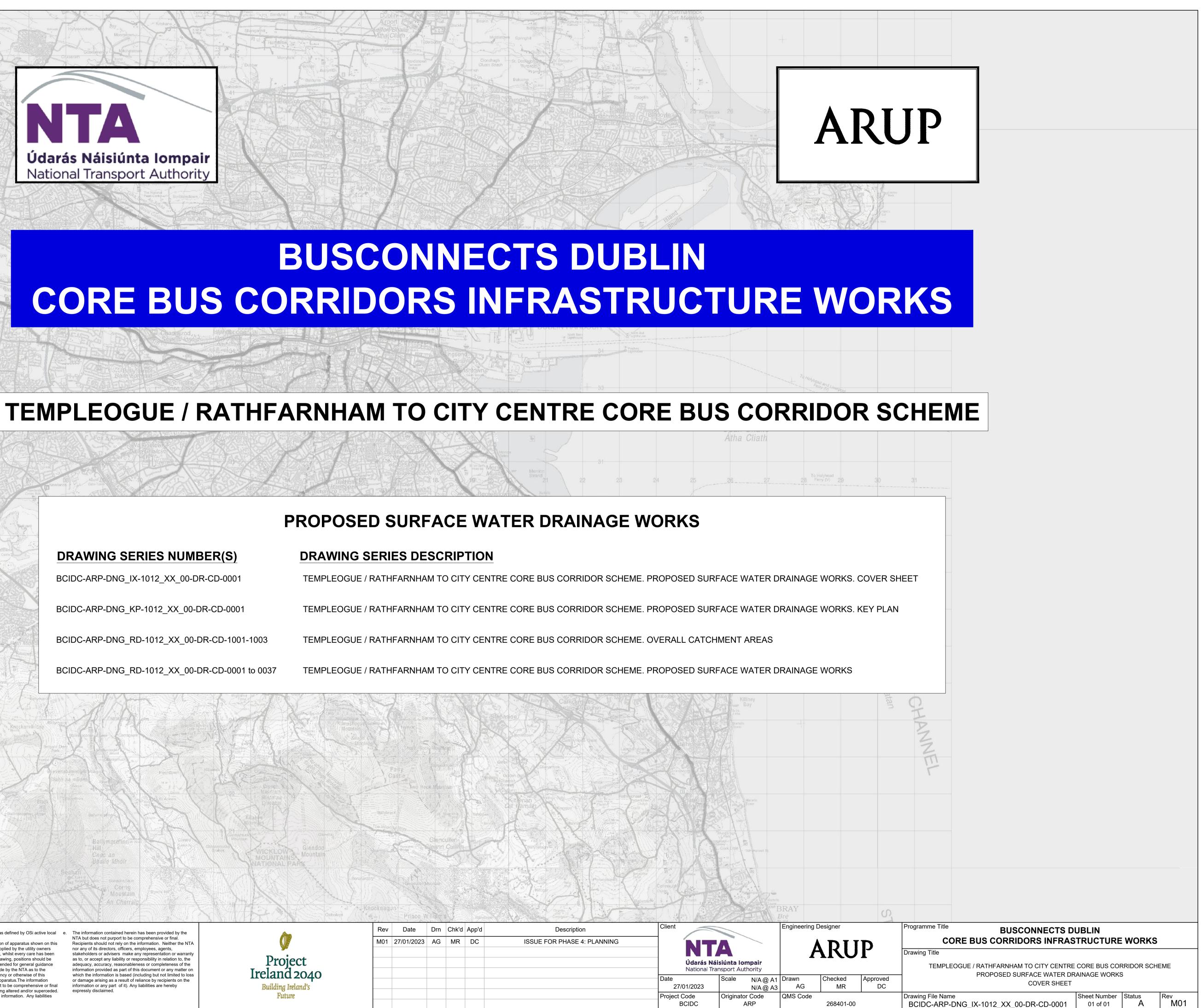
### DRAWING SERIES NUMBER(S)

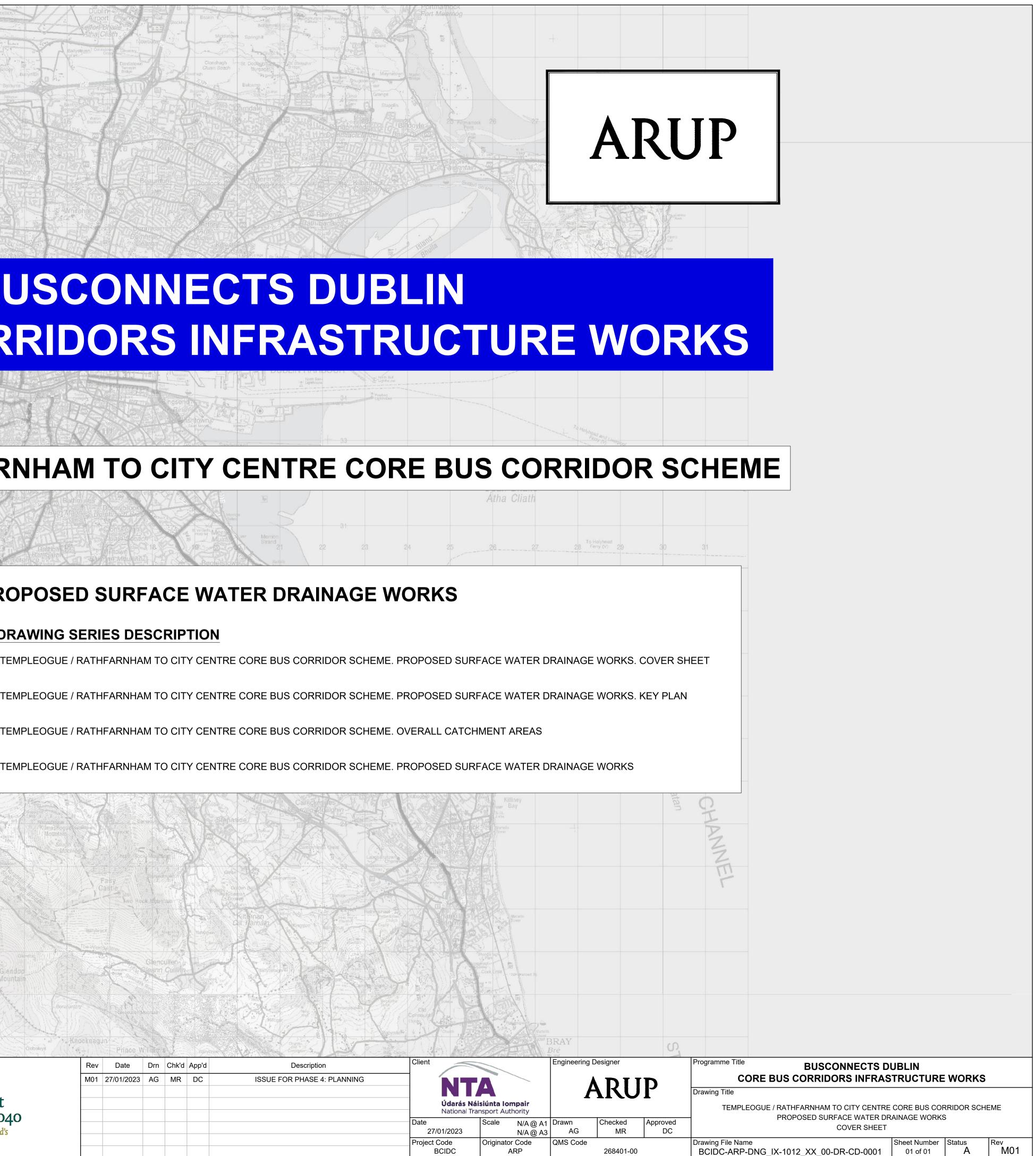
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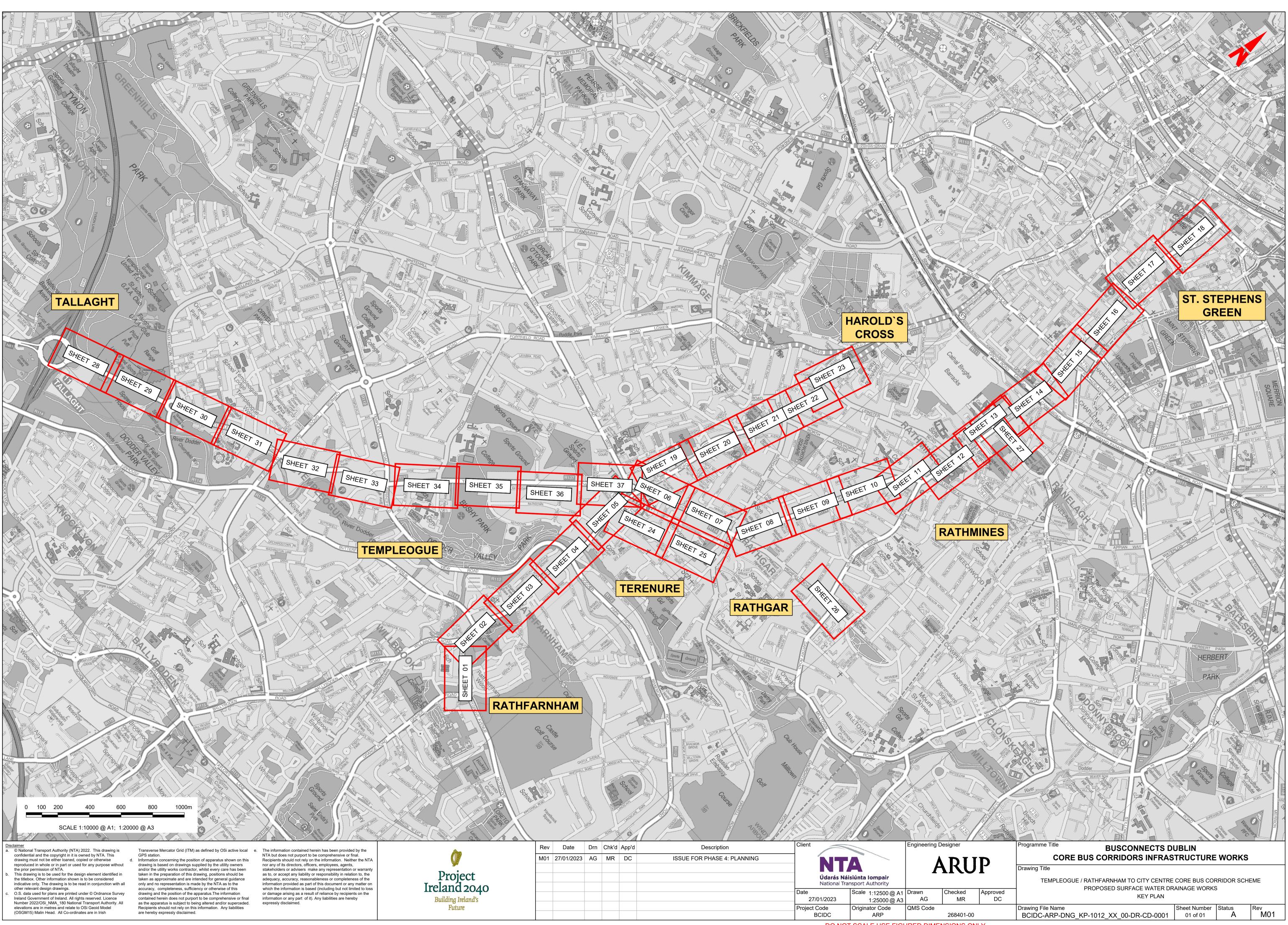
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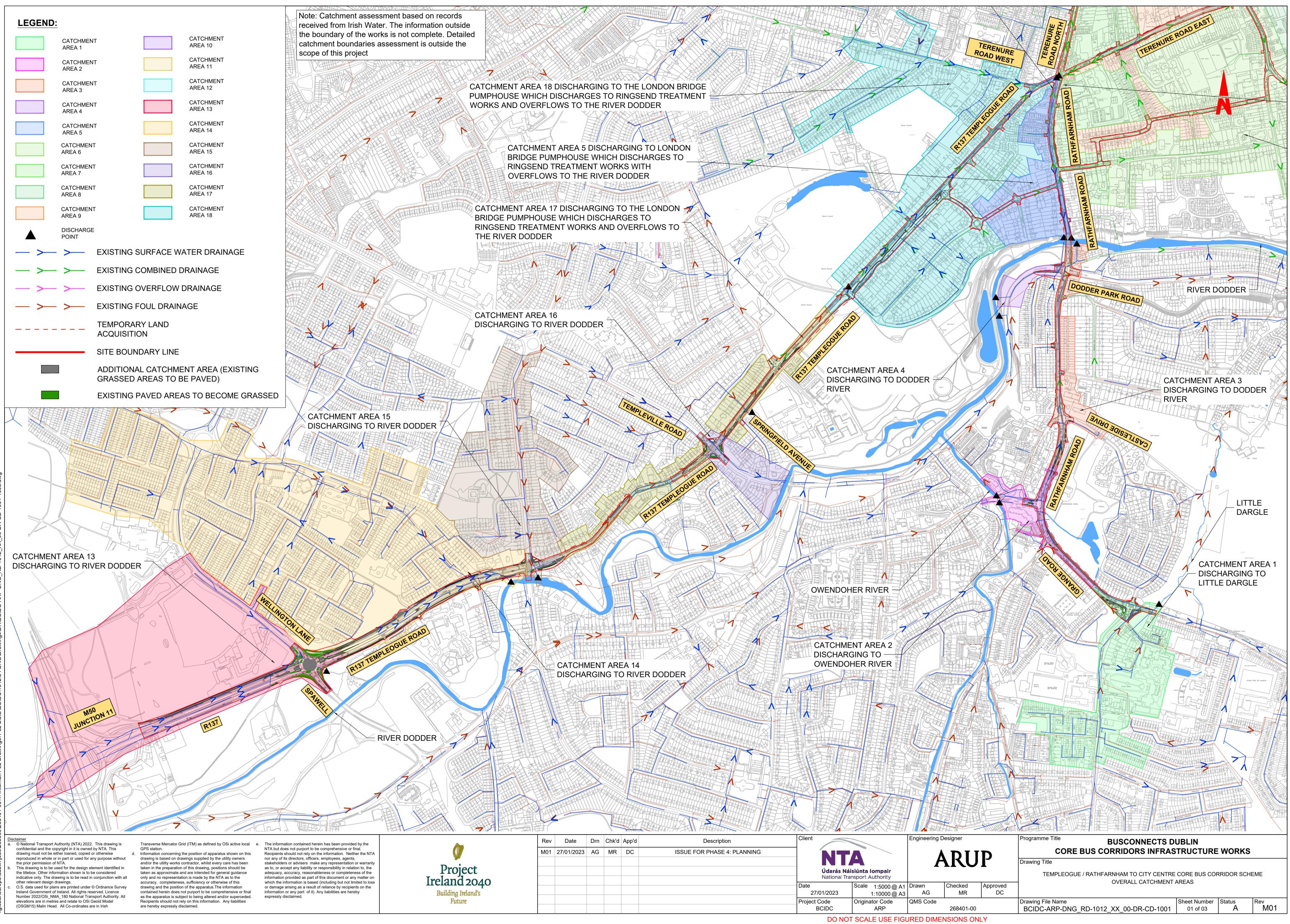


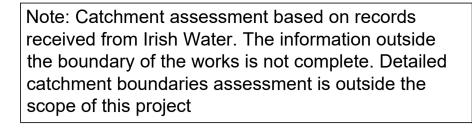


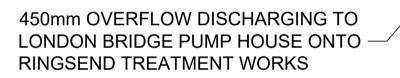


DO NOT SCALE USE FIGURED DIMENSIONS ONLY









525mm OVERFLOW

RIVER

DISCHARGING TO DODDER

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GPS station. d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final

as the apparatus is subject to being altered and/or superceded.

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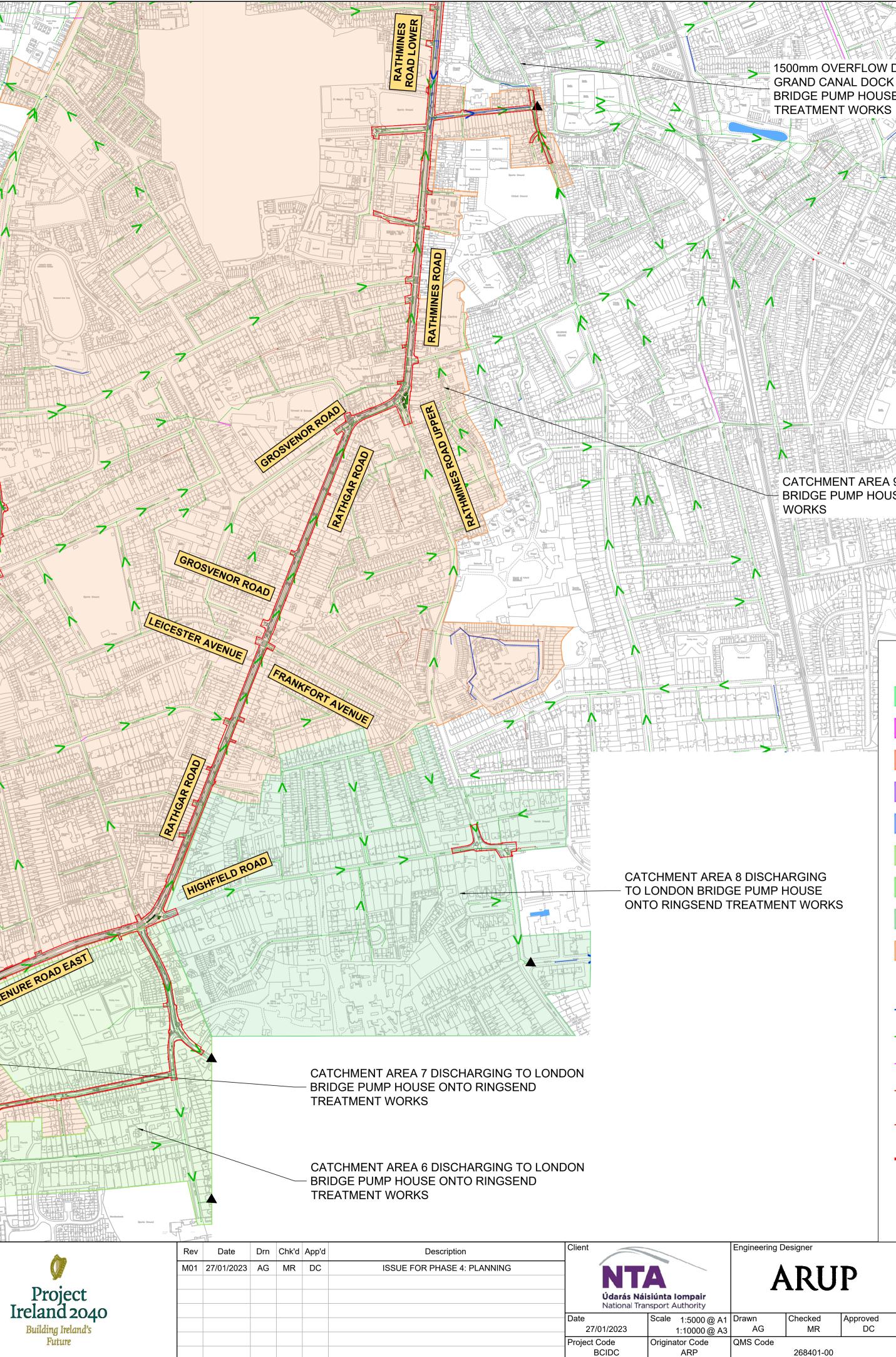
Transverse Mercator Grid (ITM) as defined by OSi active local e.

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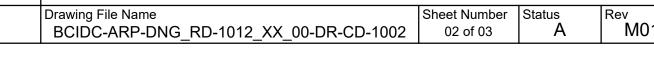
TERENURE ROAD WEST



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		CATCHMENT AREA 4	-		CATCHME AREA 13	NT	
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		CATCHMENT AREA 6			CATCHME AREA 15	NT	
		CATCHMENT AREA 7			CATCHME AREA 16	NT	
S		CATCHMENT AREA 8			CATCHME AREA 17	NT	
		CATCHMENT AREA 9			CATCHME AREA 18	NT	
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# 1500mm OVERFLOW DISCHARGING PARTIALLY TO GRAND CANAL DOCK PARTIALLY TO LONDON BRIDGE PUMP HOUSE ONTO RINGSEND



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Note: Catchment assessment based on records received from Irish Water. The information outside the boundary of the works is not complete. Detailed catchment boundaries assessment is outside the scope of this project

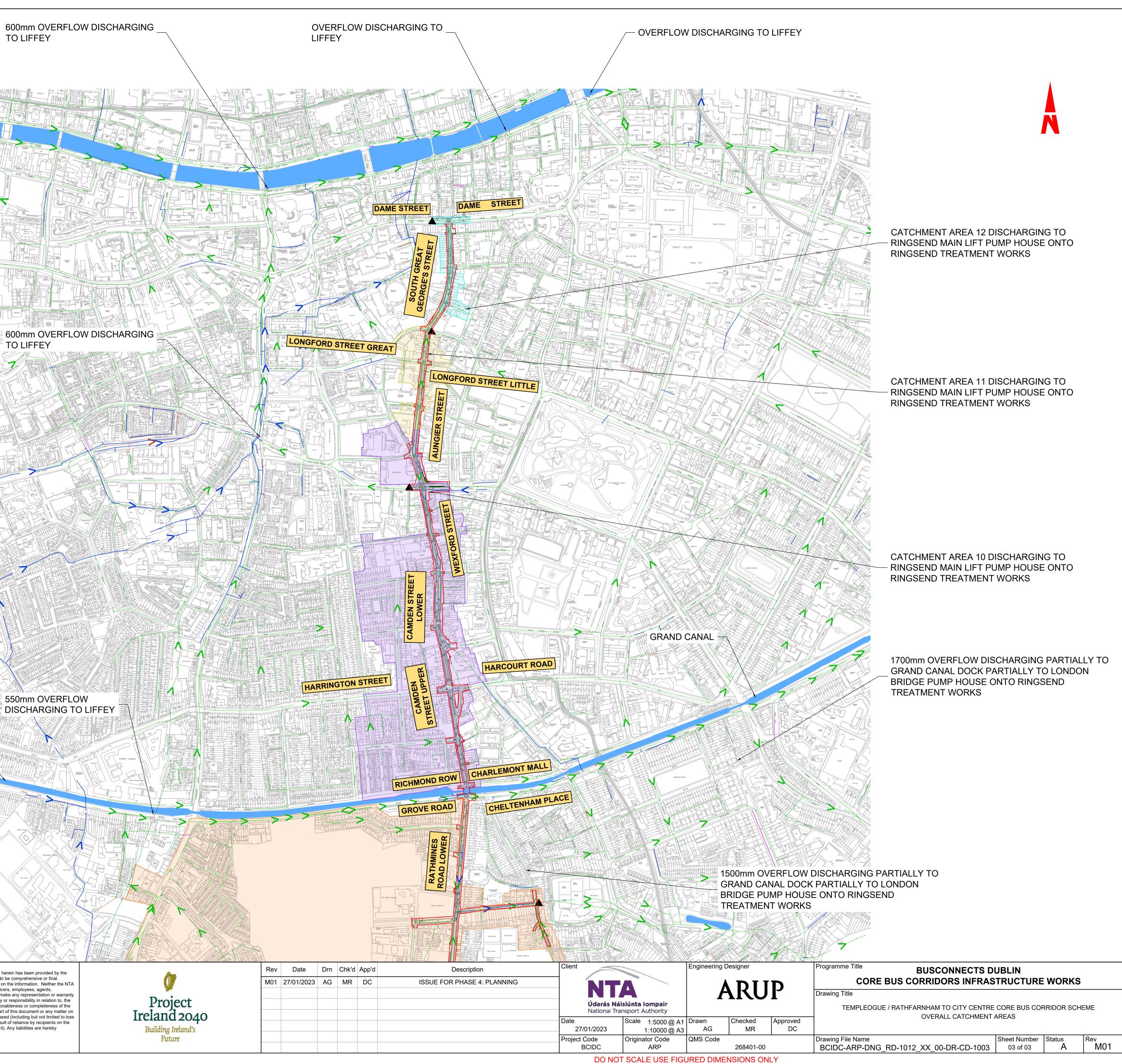
GRAND CANAL -

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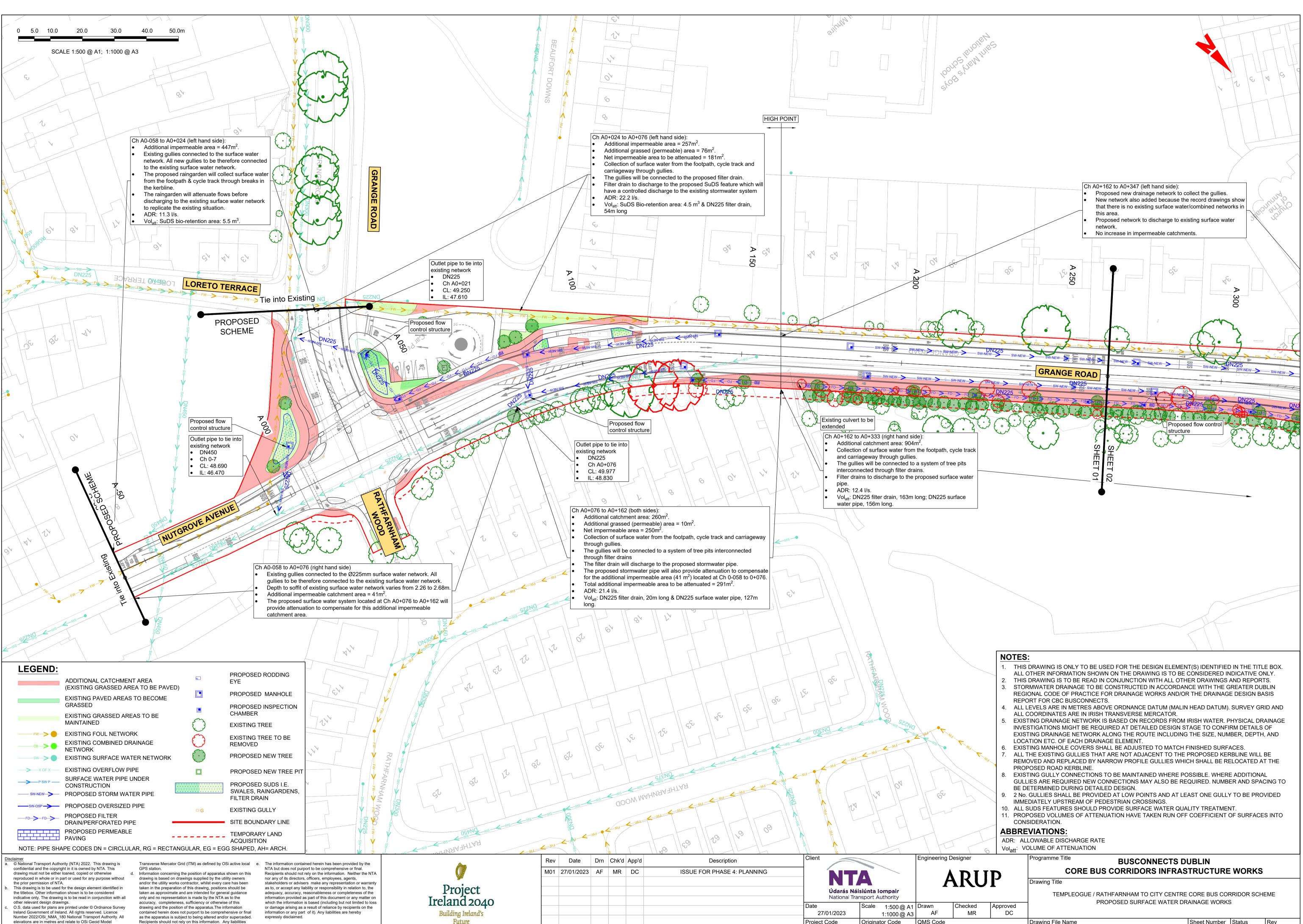
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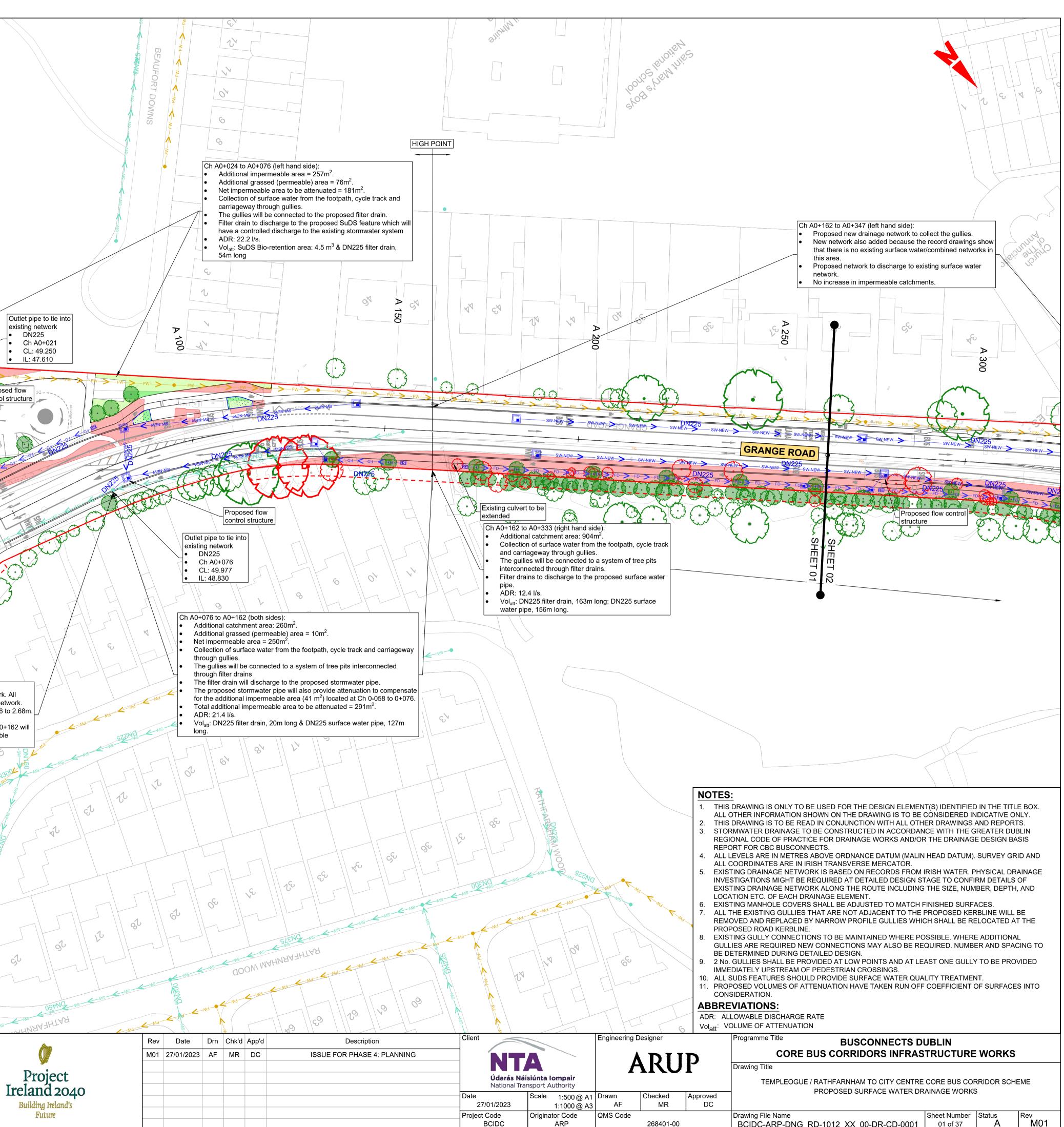
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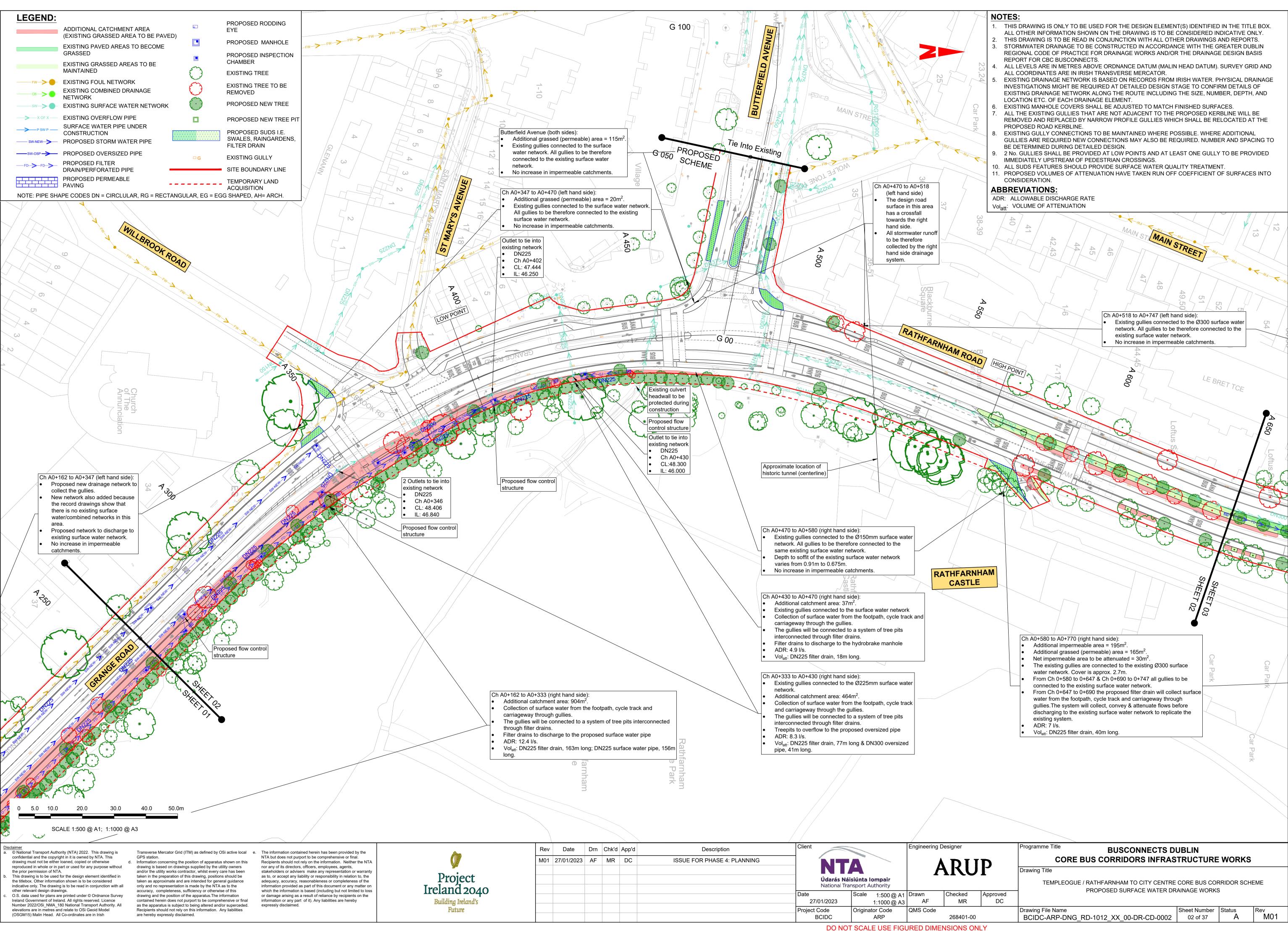


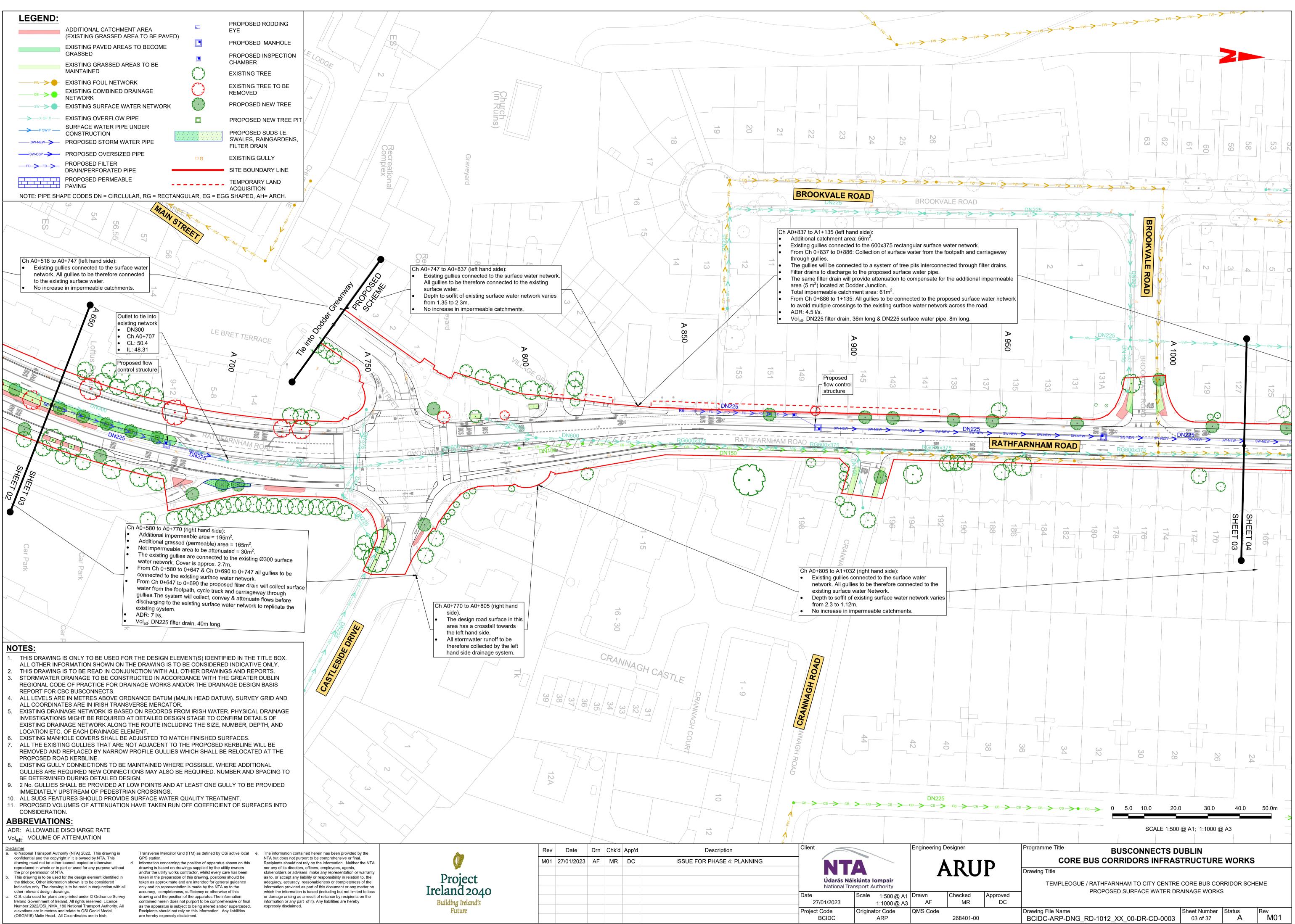
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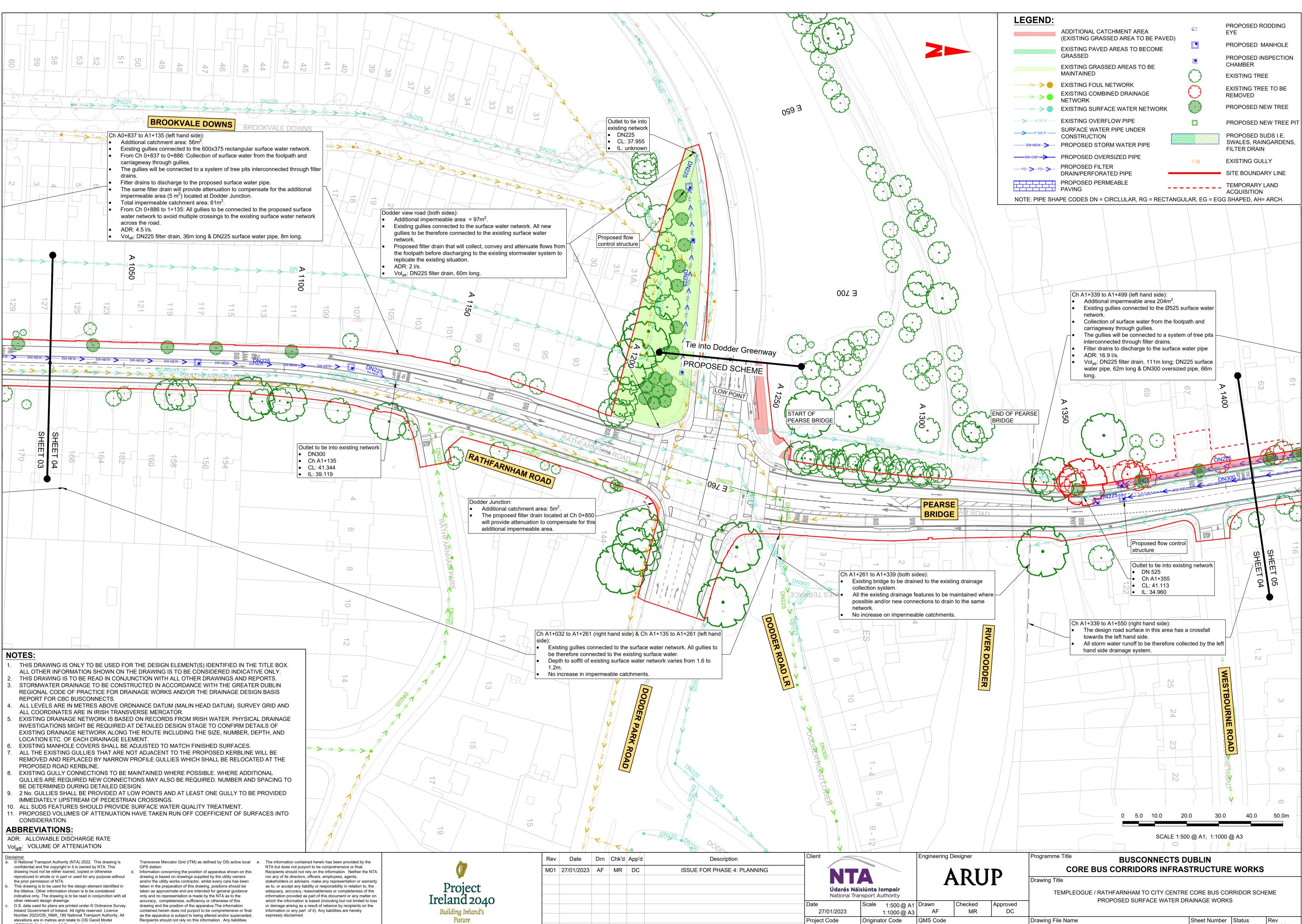


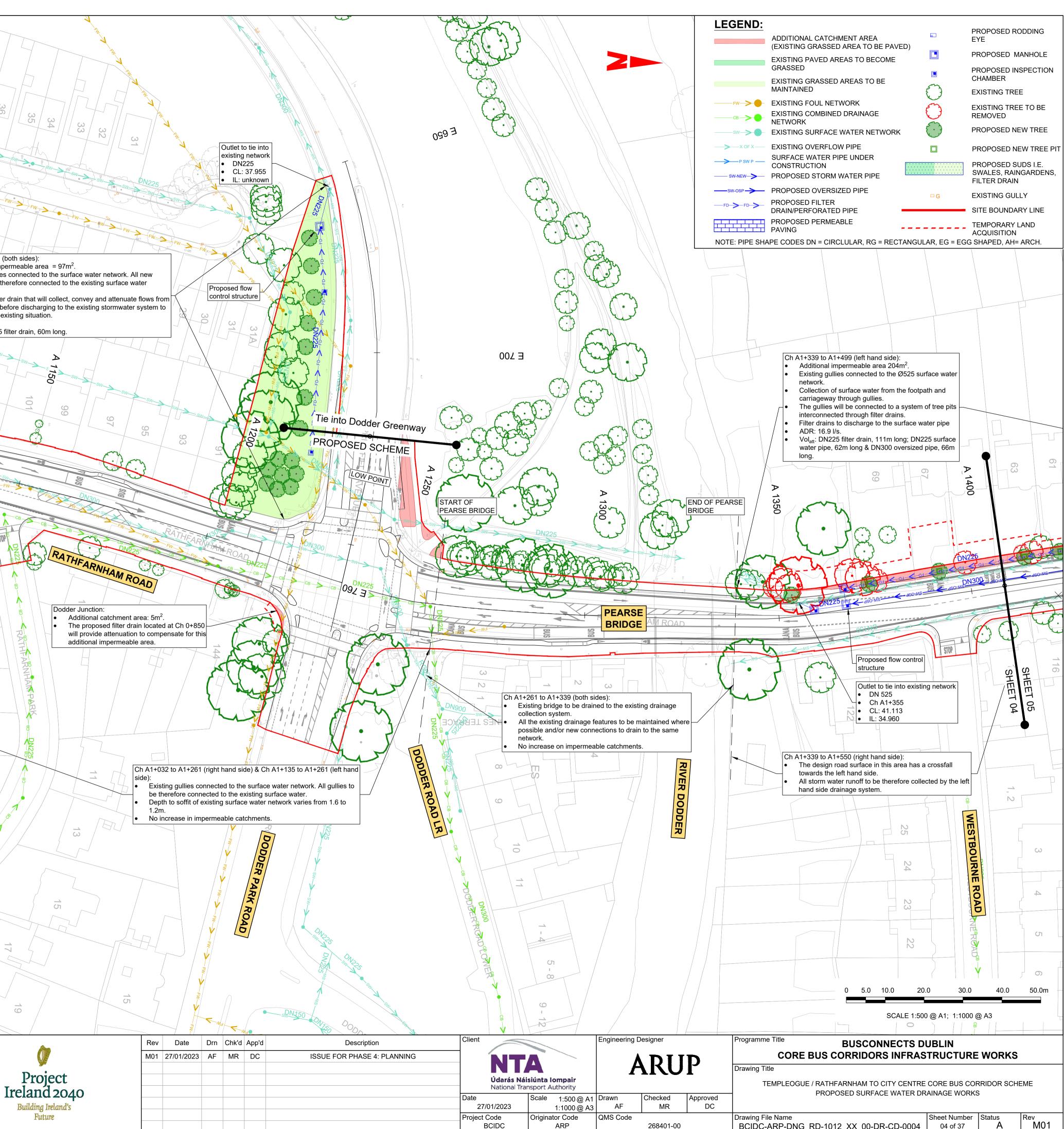


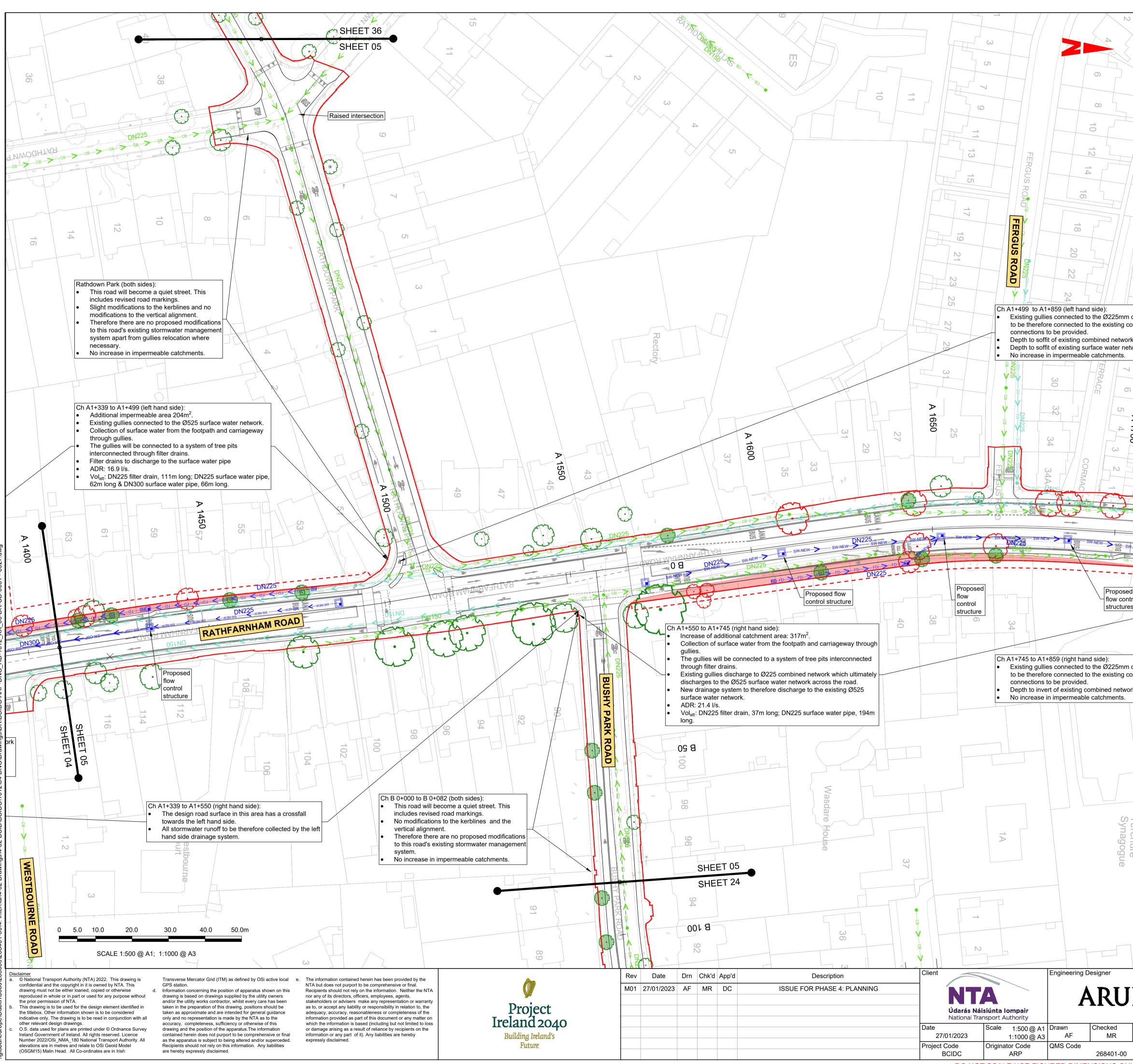




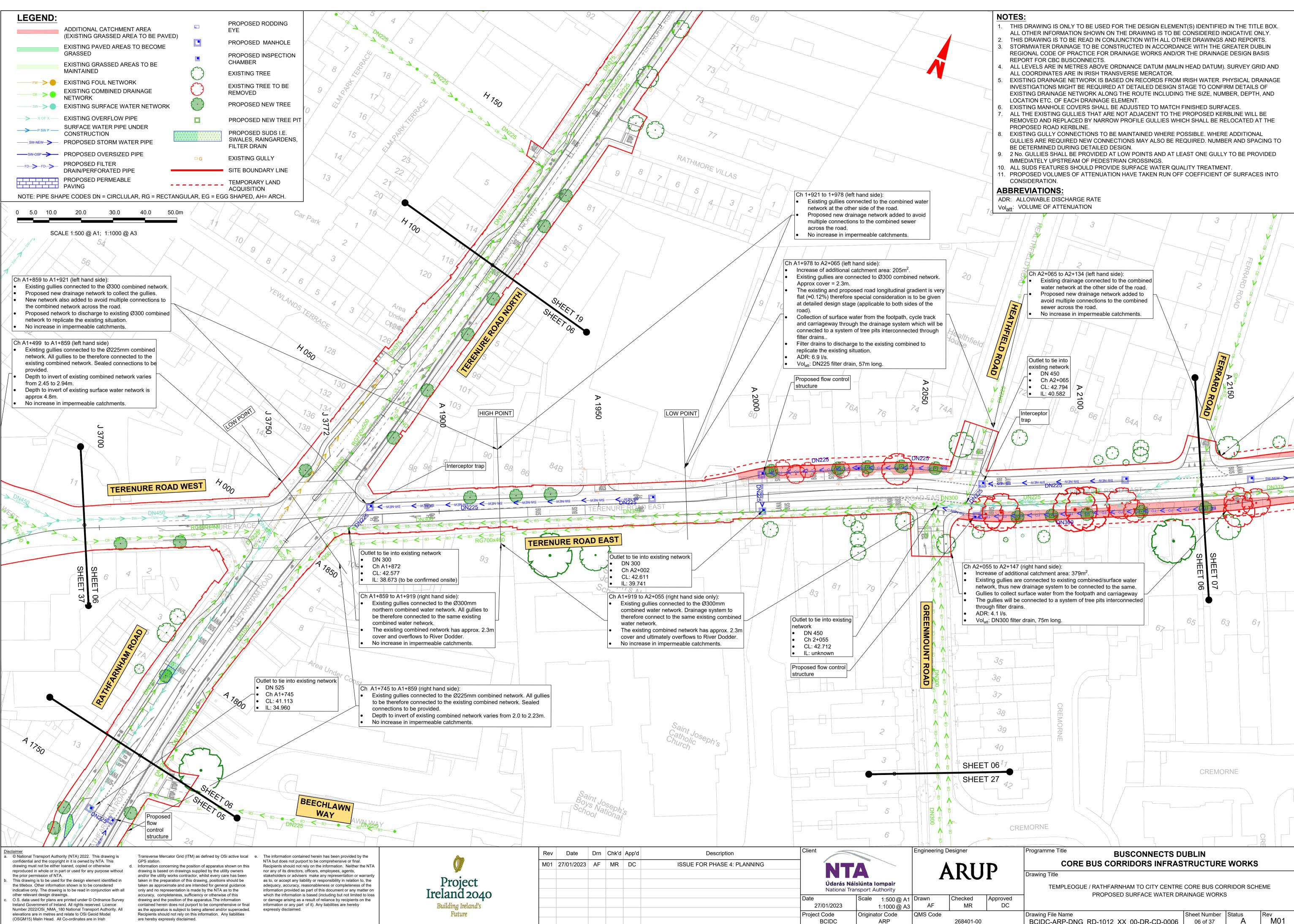
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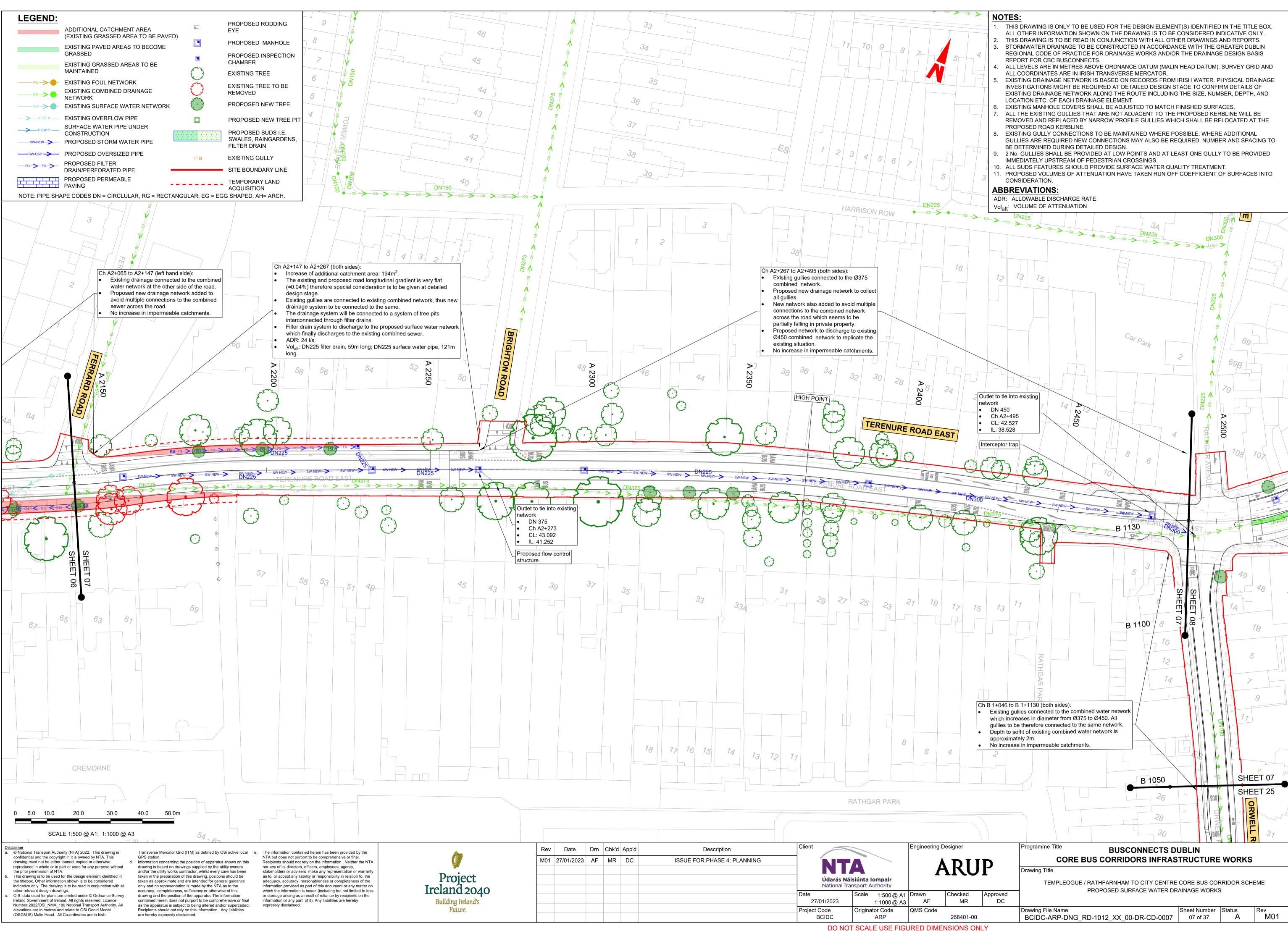


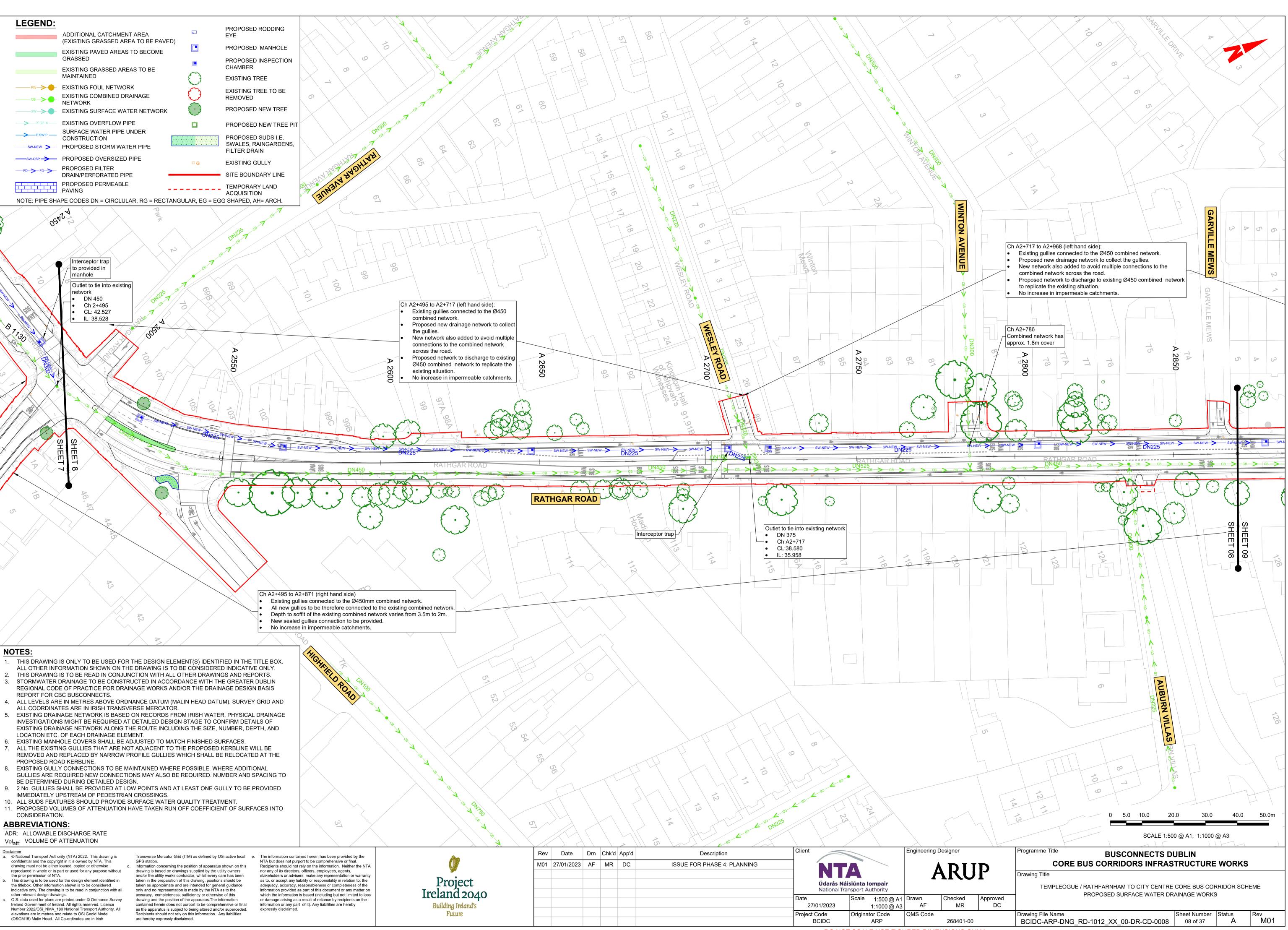
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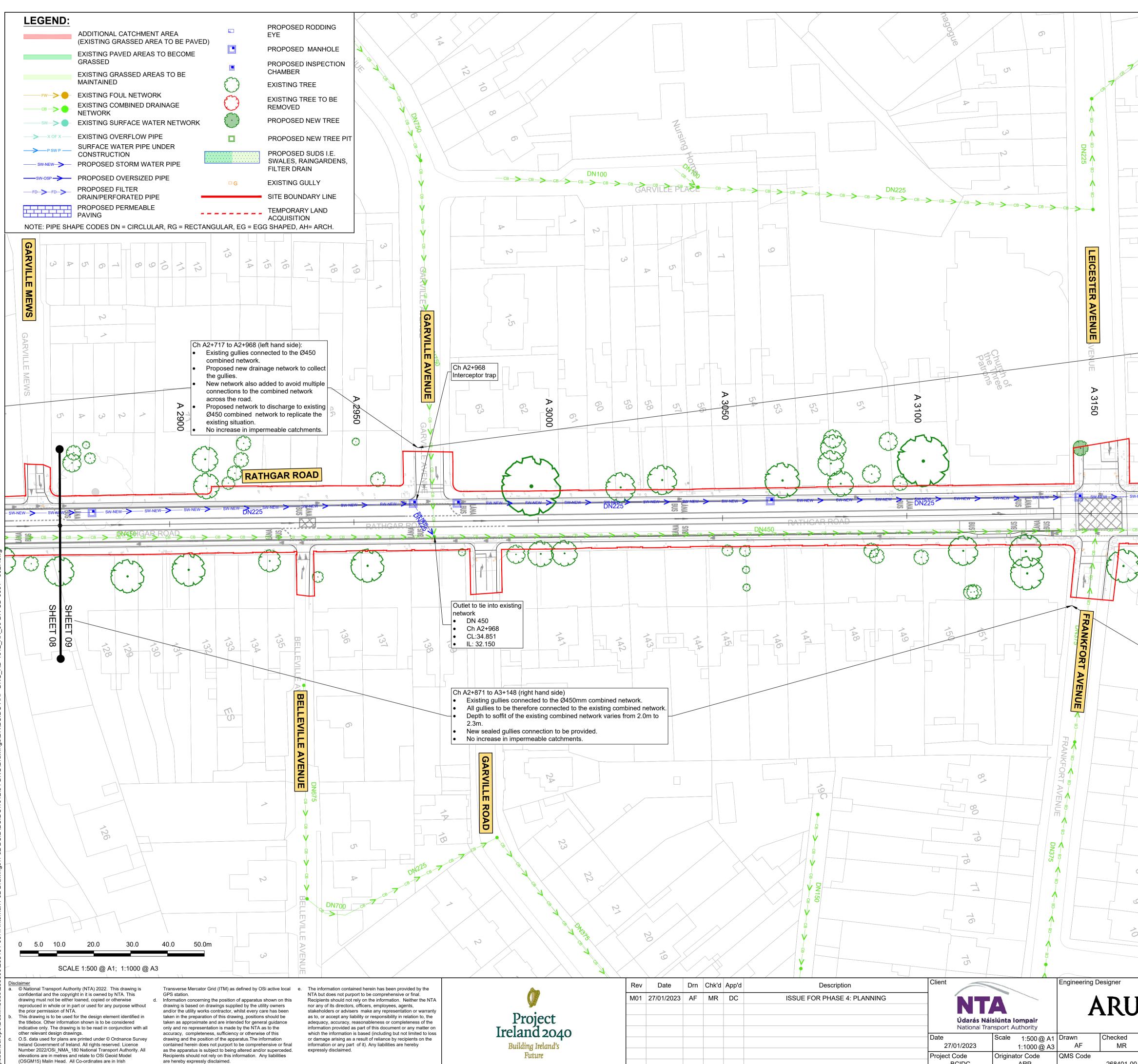
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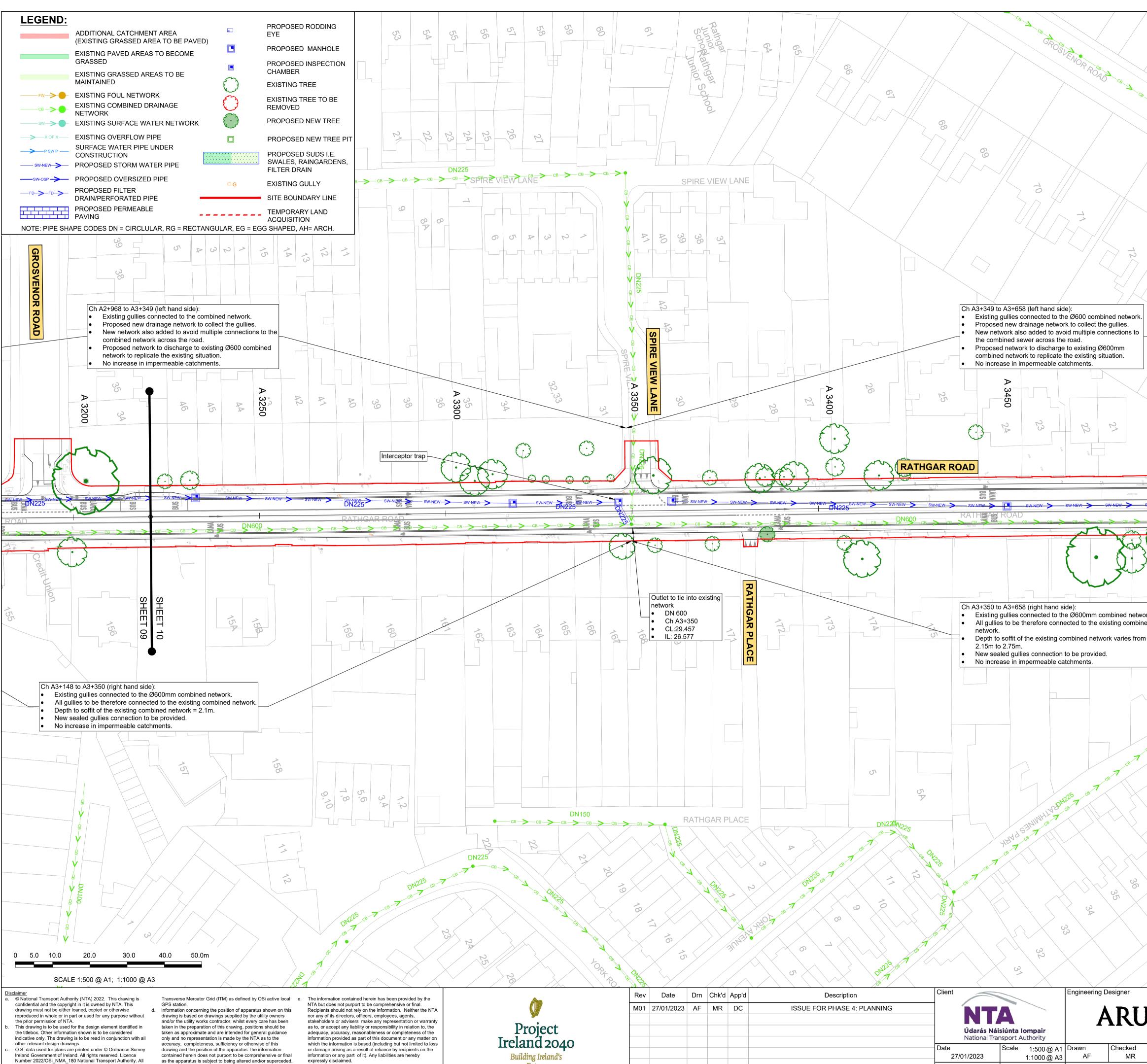




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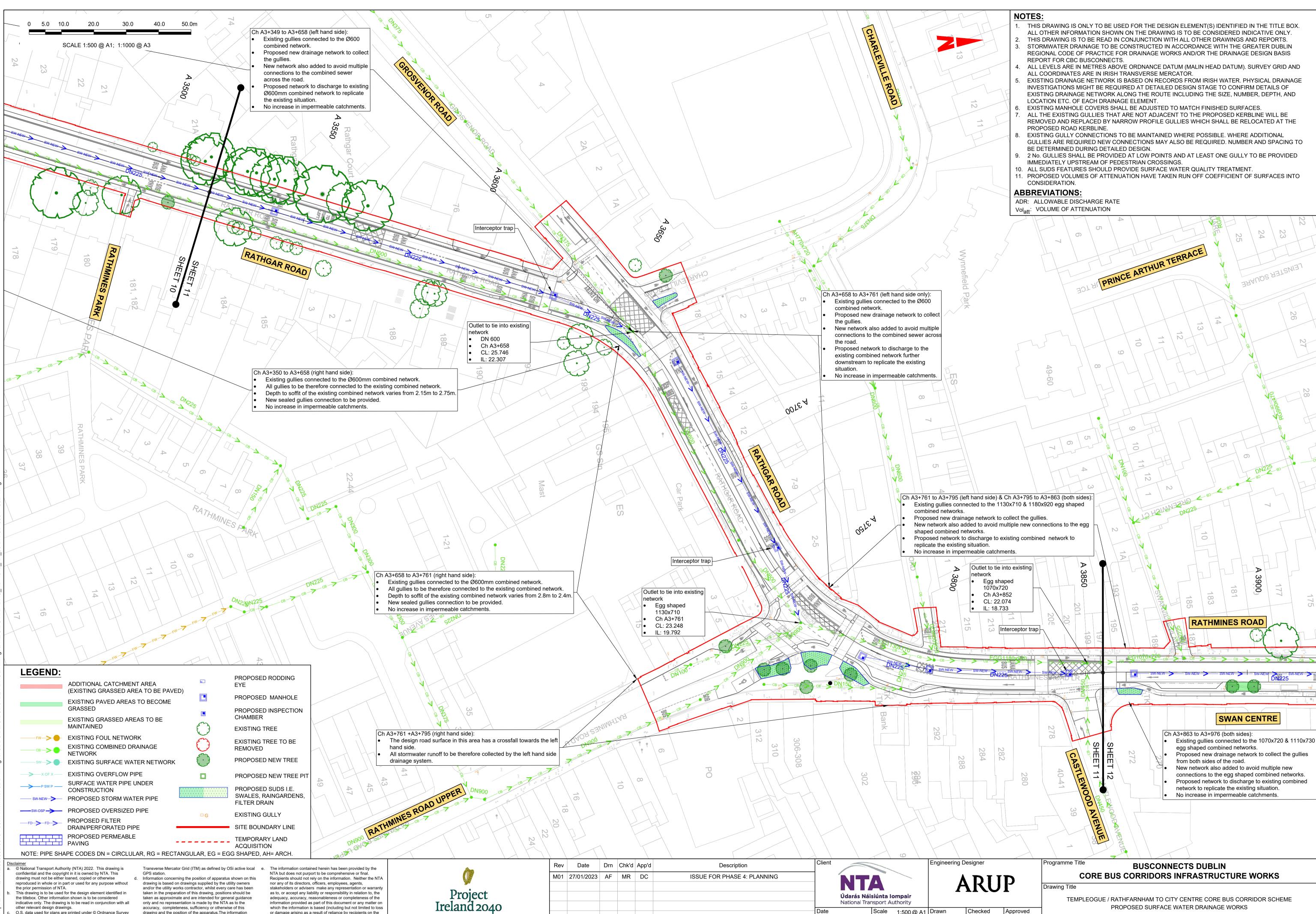
Recipients should not rely on this information. Any liabilities

are hereby expressly disclaimed.

Building Ireland' Future

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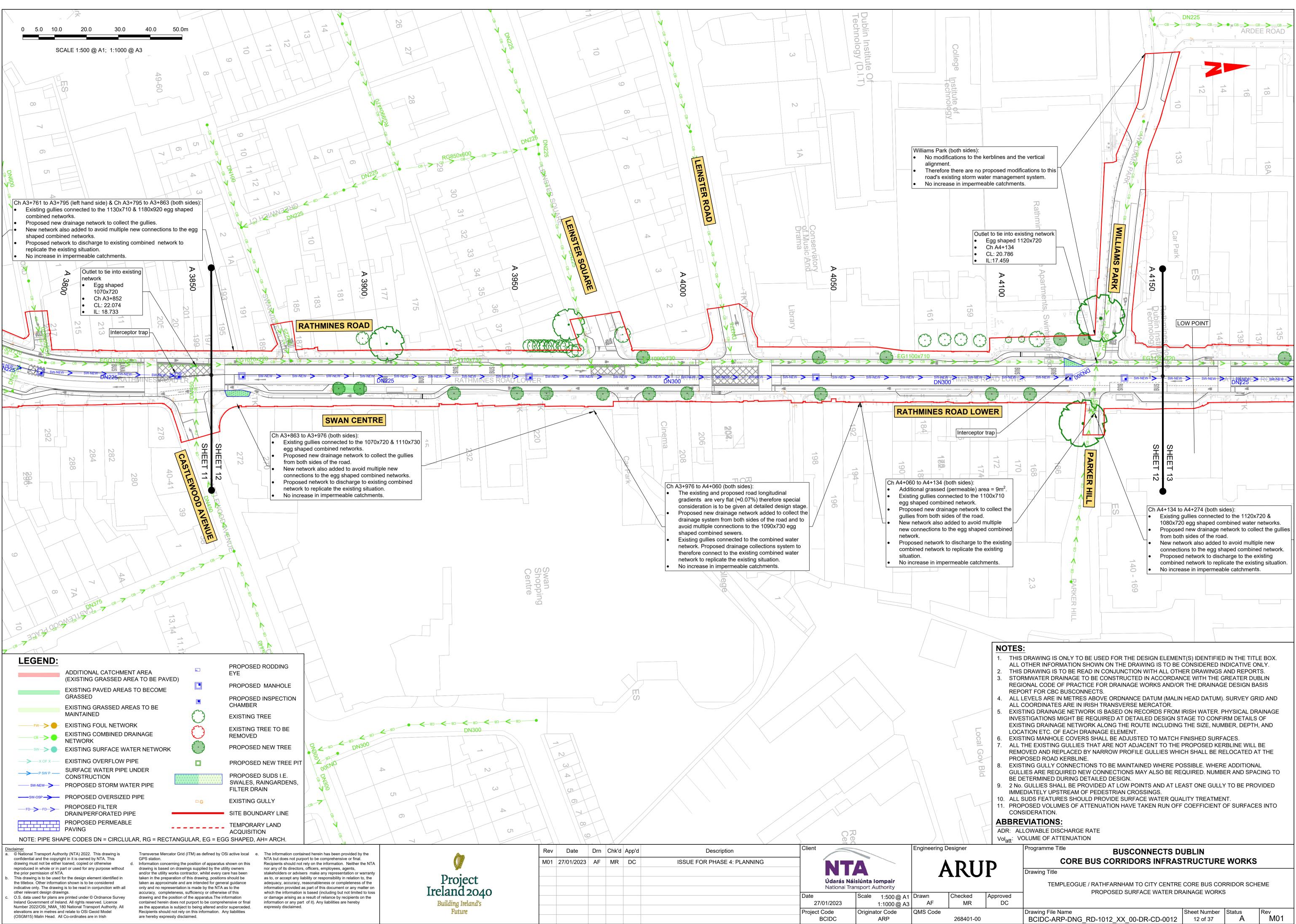
drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

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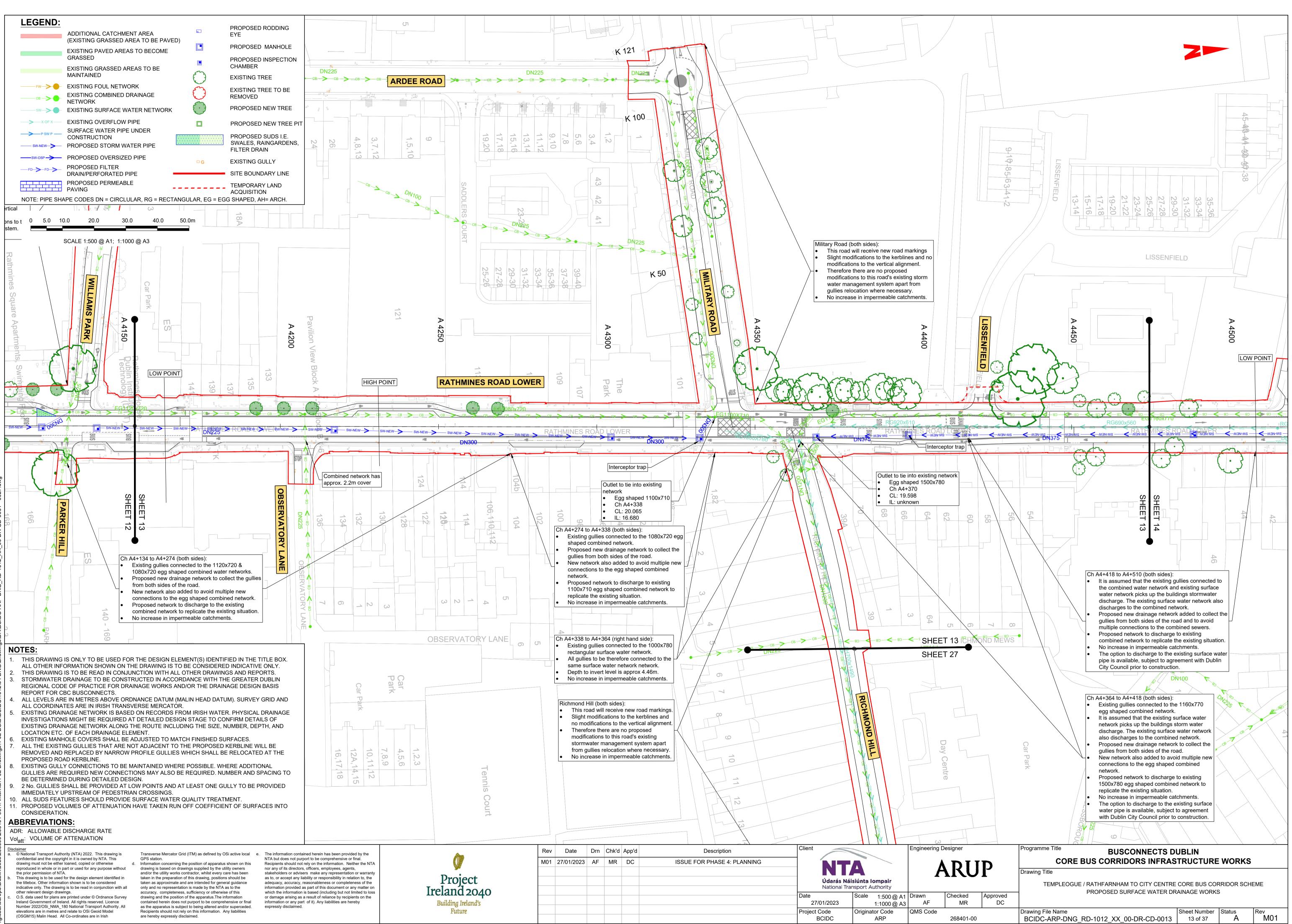
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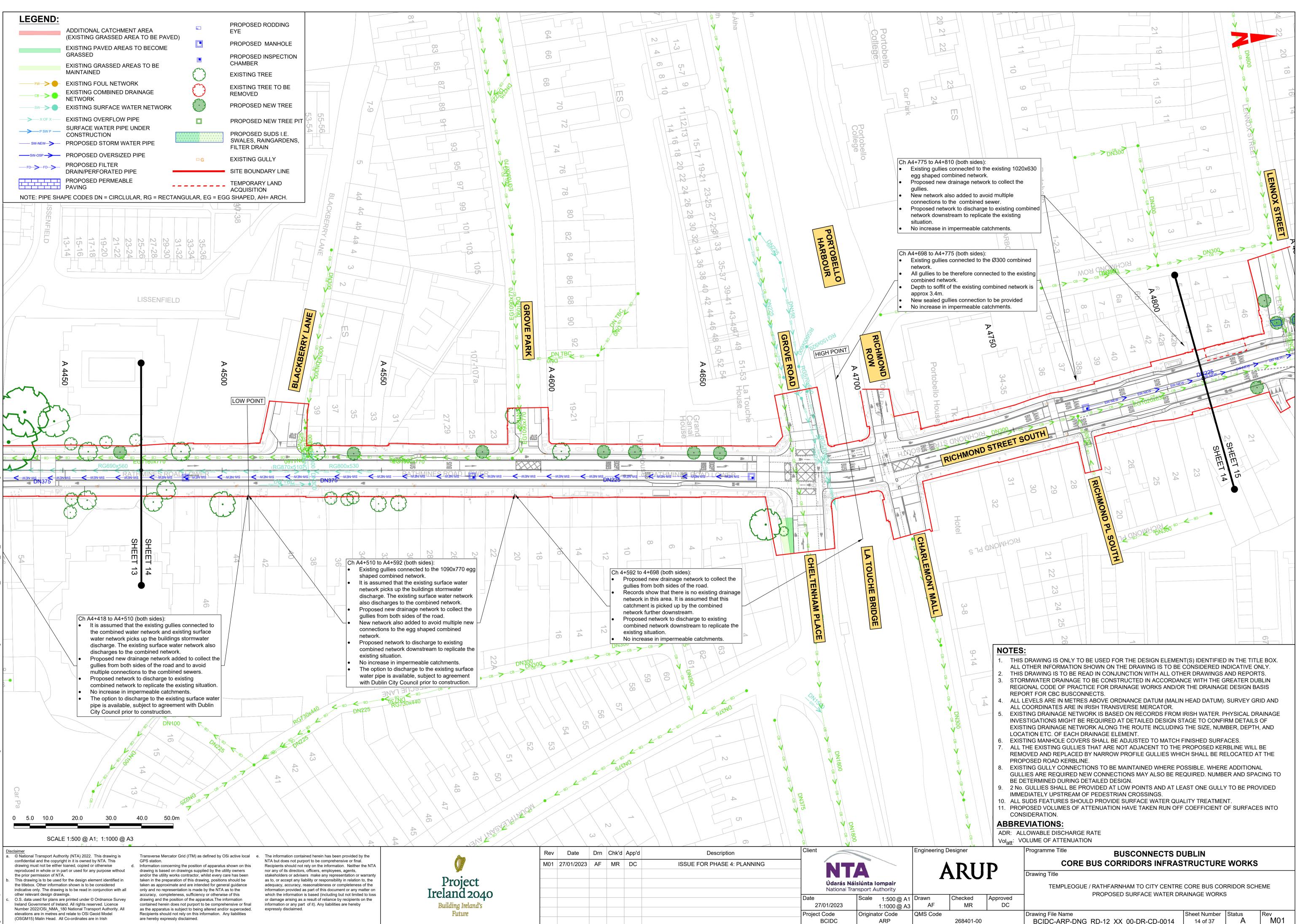
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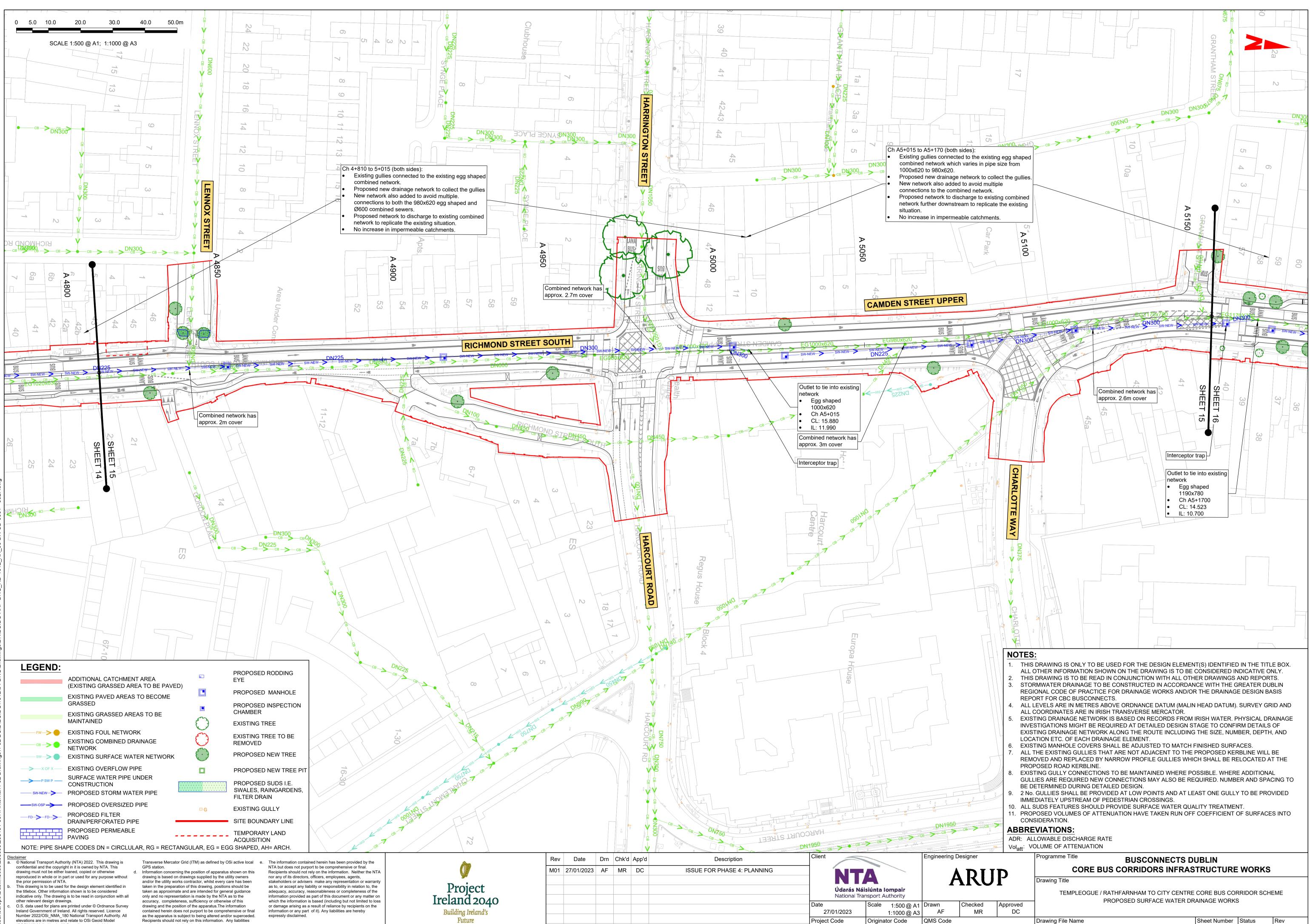


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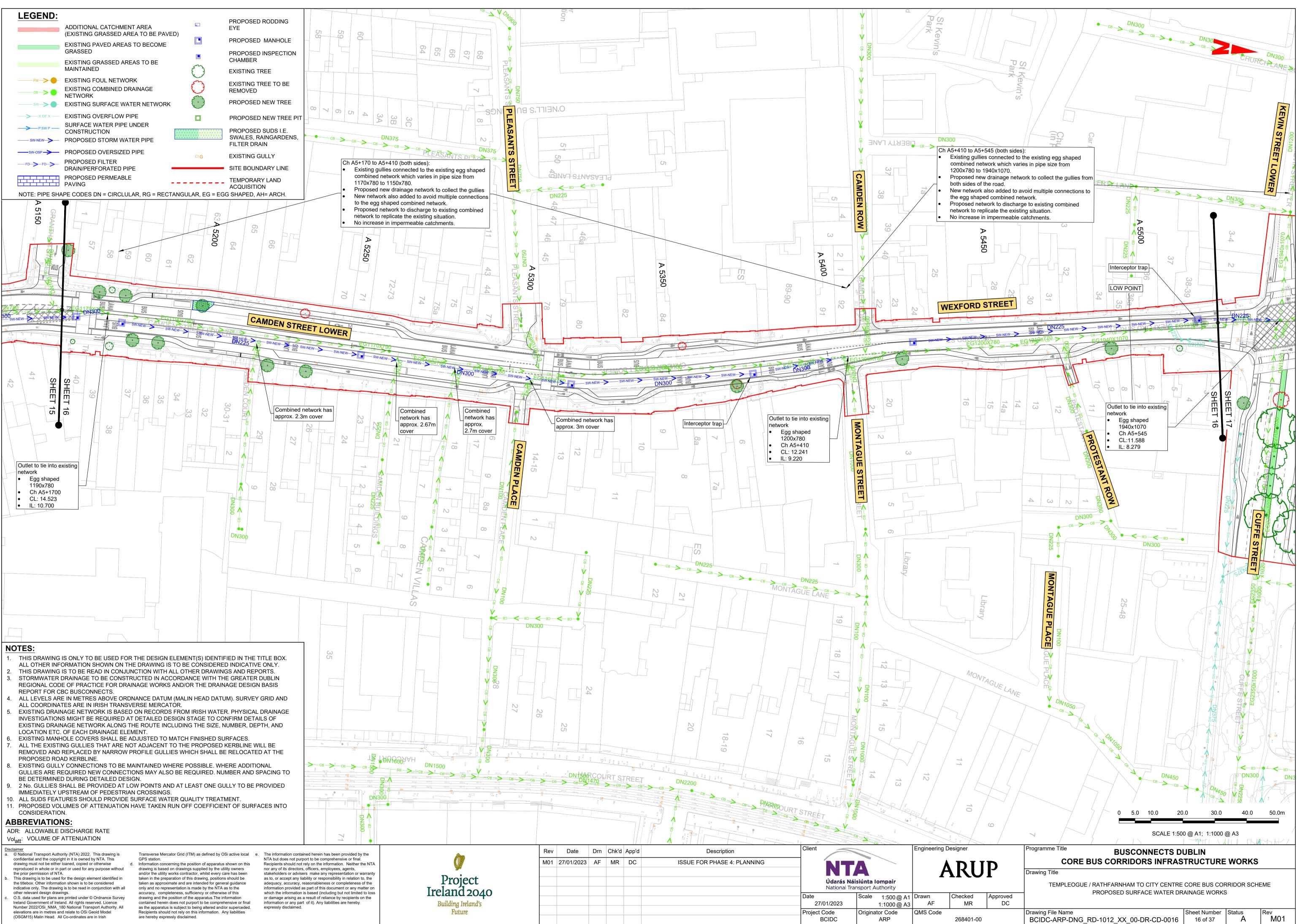
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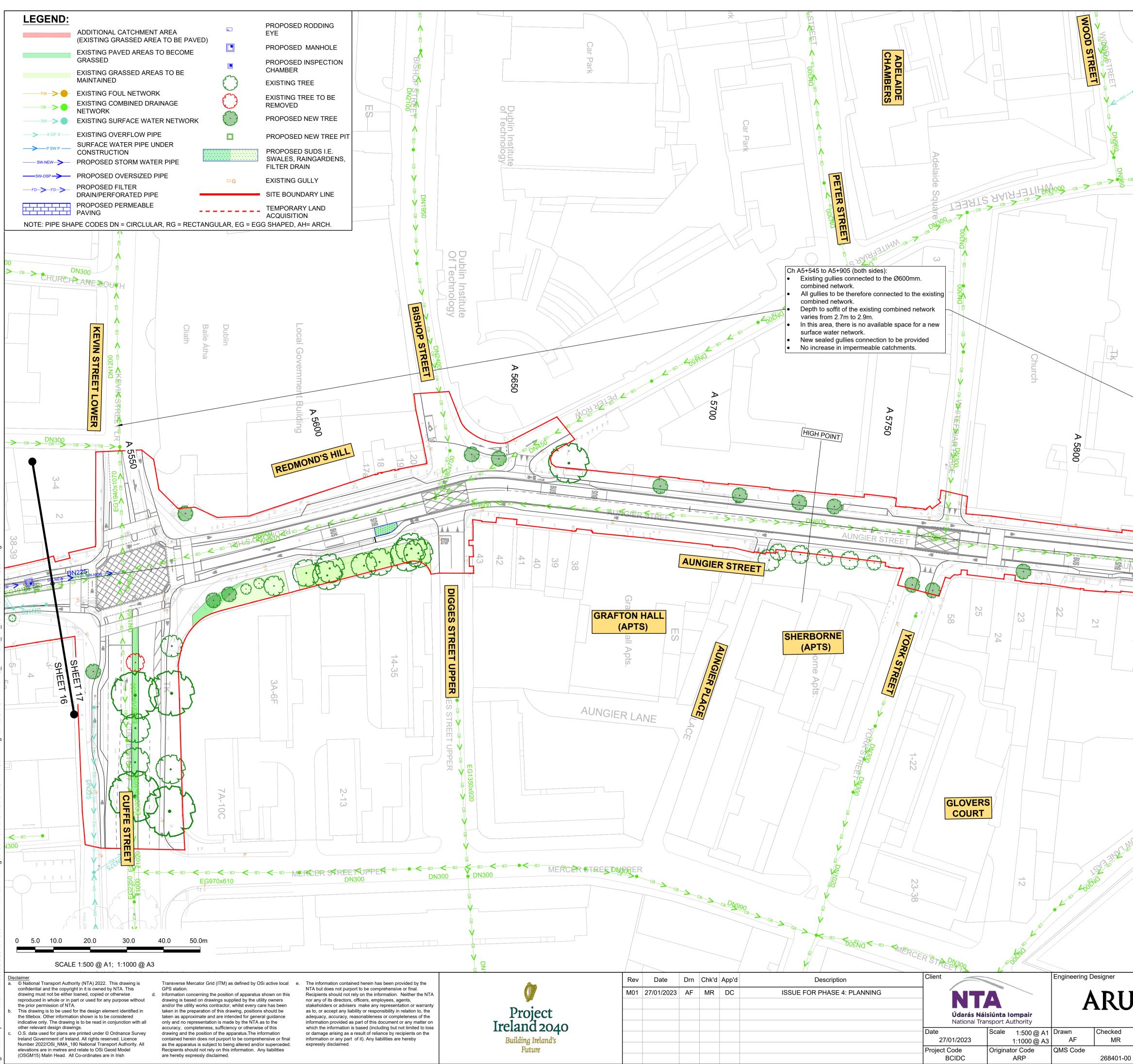


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08	<ol> <li>THIS DRAWING IS ONLY TO BE USED FOR THE DESIGN ELEMENT(S) IDENTIFIED IN THE TITLE BOX. ALL OTHER INFORMATION SHOWN ON THE DRAWING IS TO BE CONSIDERED INDICATIVE ONLY.</li> <li>THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND REPORTS.</li> <li>STORMWATER DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS AND/OR THE DRAINAGE DESIGN BASIS REPORT FOR CBC BUSCONNECTS.</li> <li>ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (MALIN HEAD DATUM). SURVEY GRID AND ALL COORDINATES ARE IN INISH TRANSVERSE MERCATOR.</li> <li>EXISTING DRAINAGE NETWORK IS BASED ON RECORDS FROM IRISH WATER. PHYSICAL DRAINAGE INVESTIGATIONS MIGHT BE REQUIRED AT DETAILED DESIGN STAGE TO CONFIRM DETAILS OF EXISTING DRAINAGE NETWORK ALONG THE ROUTE INCLUDING THE SIZE, NUMBER, DEPTH, AND LOCATION ETC. OF EACH DRAINAGE ELEMENT.</li> <li>EXISTING MANHOLE COVERS SHALL BE ADJUSTED TO MATCH FINISHED SURFACES.</li> <li>ALL THE EXISTING GULLIES THAT ARE NOT ADJACENT TO THE PROPOSED KERBLINE WILL BE REMOVED AND REPLACED BY NARROW PROFILE GULLIES WHICH SHALL BE RELOCATED AT THE PROPOSED ROAD KERBLINE.</li> <li>EXISTING GULLY CONNECTIONS TO BE MAINTAINED WHERE POSSIBLE. WHERE ADDITIONAL GULLIES ARE REQUIRED NEW CONNECTIONS MAY ALSO BE REQUIRED. NUMBER AND SPACING TO BE DETERMINED DURING DETAILED DESIGN.</li> <li>2 No. GULLIES SHALL BE PROVIDED AT LOW POINTS AND AT LEAST ONE GULLY TO BE PROVIDED IMMEDIATELY UPSTREAM OF PEDESTRIAN CROSSINGS.</li> <li>ALL SUDS FEATURES SHOULD PROVIDE SURFACE WATER QUALITY TREATMENT.</li> <li>PROPOSED VOLUMES OF ATTENUATION HAVE TAKEN RUN OFF COEFFICIENT OF SURFACES INTO CONSIDERATION.</li> <li>ADR: ALLOWABLE DISCHARGE RATE Vol<sub>att</sub>: VOLUME OF ATTENUATION</li> </ol>	

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		TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE CORE BUS CORRIDOR SCHEME PROPOSED SURFACE WATER DRAINAGE WORKS
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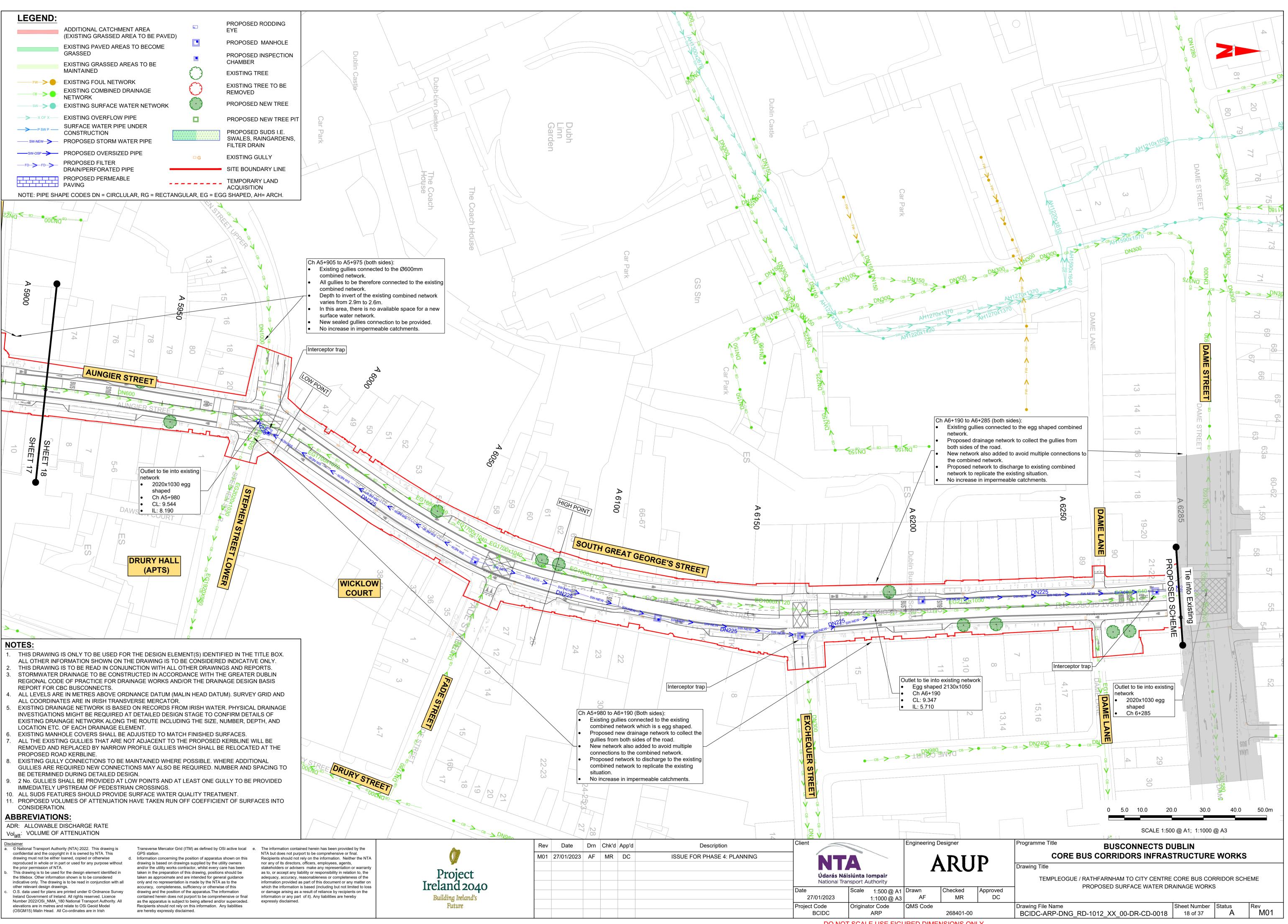
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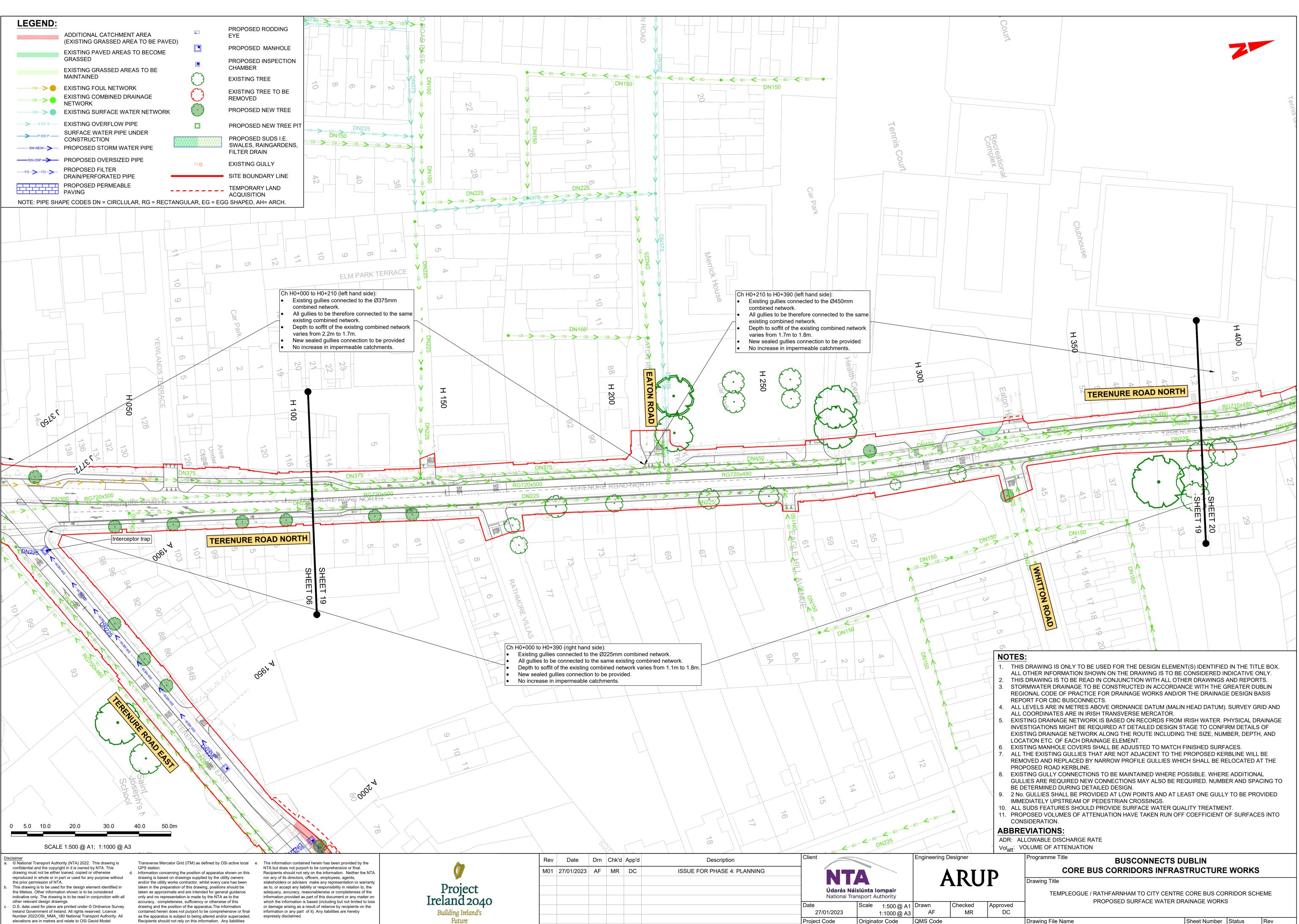
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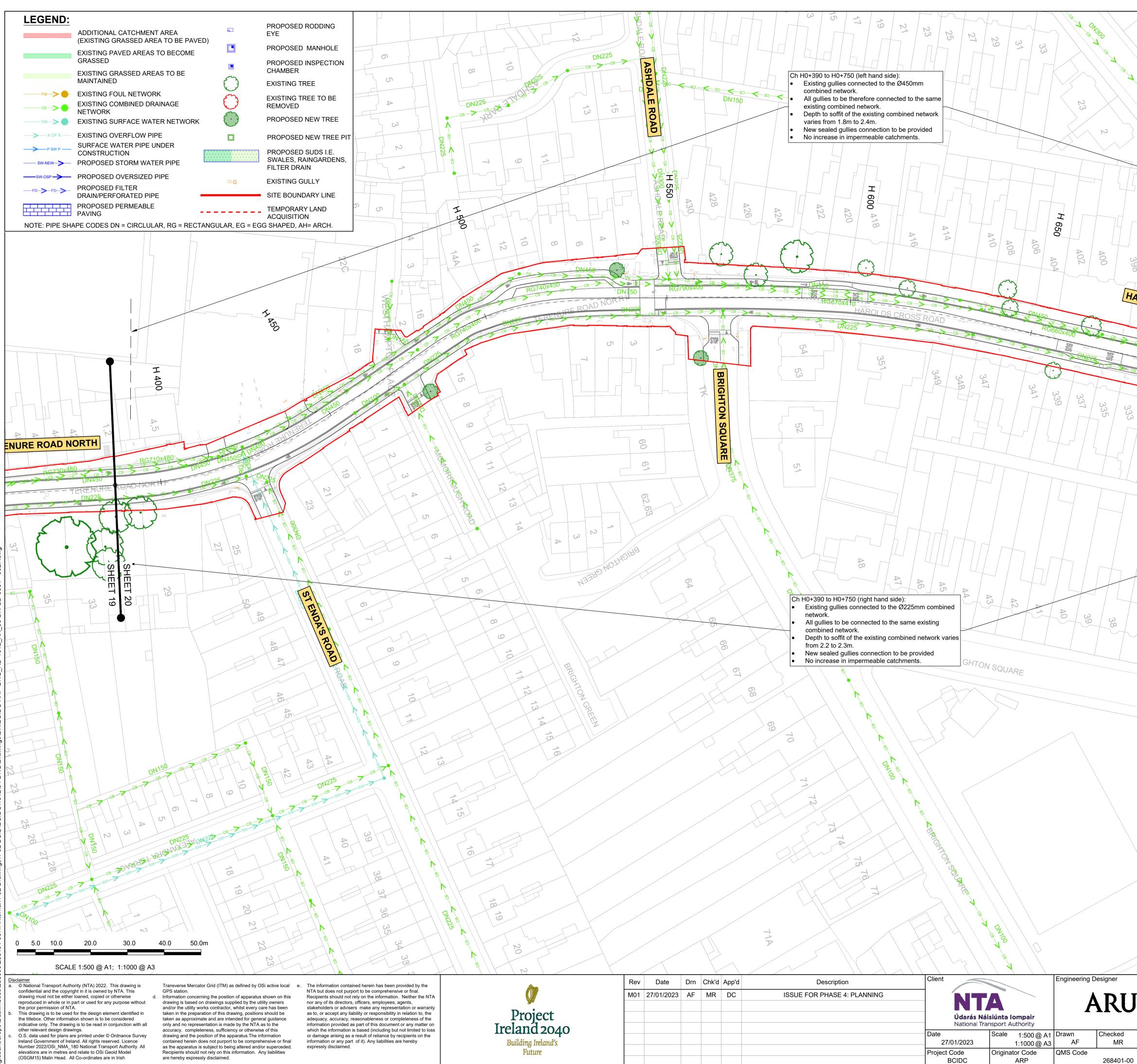
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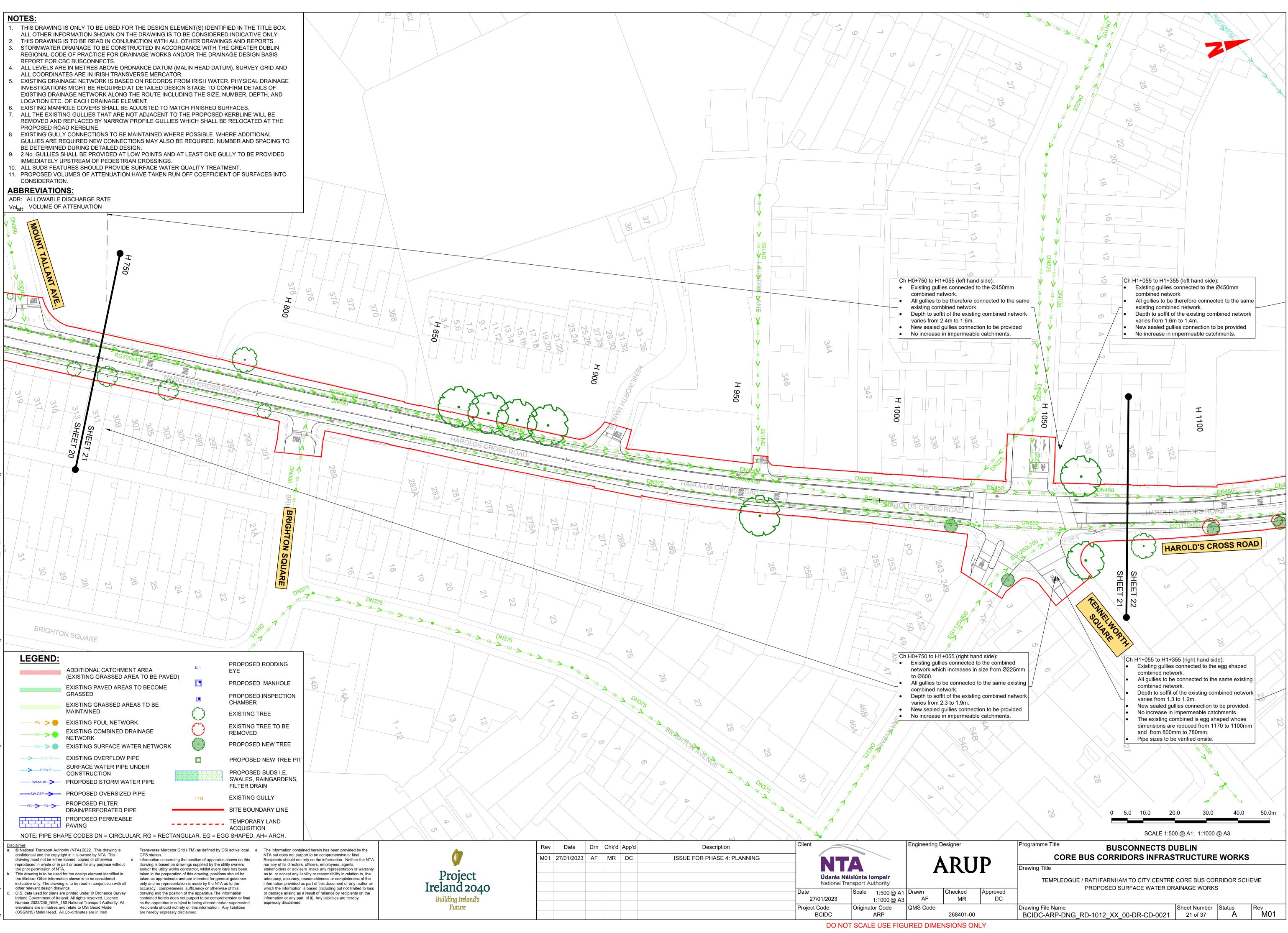


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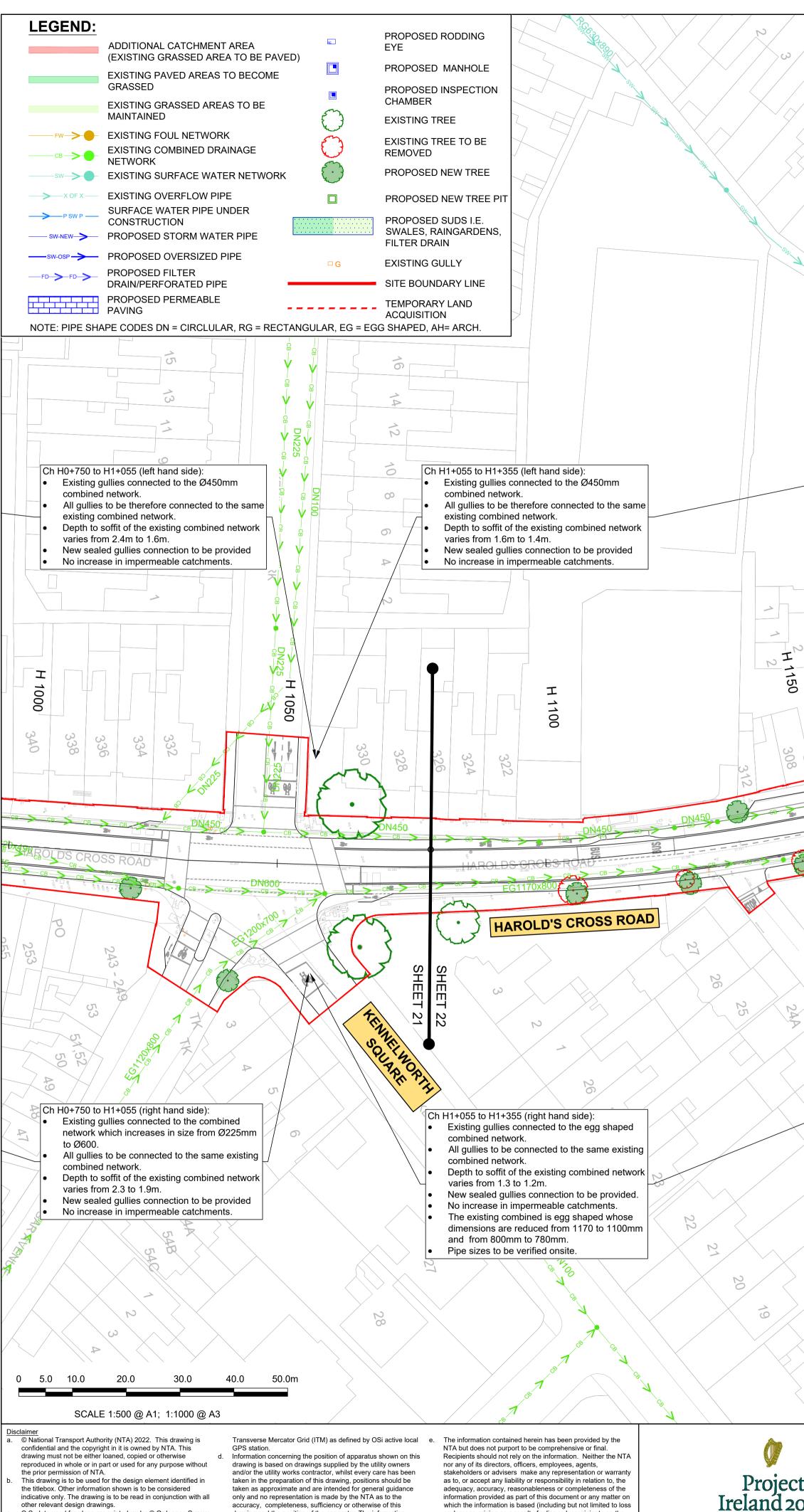
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- INVESTIGATIONS MIGHT BE REQUIRED AT DETAILED DESIGN STAGE TO CONFIRM DETAILS OF EXISTING DRAINAGE NETWORK ALONG THE ROUTE INCLUDING THE SIZE, NUMBER, DEPTH, AND LOCATION ETC. OF EACH DRAINAGE ELEMENT.
- ALL THE EXISTING GULLIES THAT ARE NOT ADJACENT TO THE PROPOSED KERBLINE WILL BE PROPOSED ROAD KERBLINE
- BE DETERMINED DURING DETAILED DESIGN.
- IMMEDIATELY UPSTREAM OF PEDESTRIAN CROSSINGS.
- CONSIDERATION.



<u>EGEND:</u>		
	ADDITIONAL CATCHMENT AREA (EXISTING GRASSED AREA TO BE PAVED)	
	EXISTING PAVED AREAS TO BECOME GRASSED	
	EXISTING GRASSED AREAS TO BE MAINTAINED	f
	EXISTING FOUL NETWORK	X
—св —>-	EXISTING COMBINED DRAINAGE NETWORK	Ę
	EXISTING SURFACE WATER NETWORK	Ę
<b>&gt;</b> P SW P	EXISTING OVERFLOW PIPE SURFACE WATER PIPE UNDER CONSTRUCTION PROPOSED STORM WATER PIPE	
-SW-OSP>	PROPOSED OVERSIZED PIPE	
FD	PROPOSED FILTER	
	PROPOSED PERMEABLE PAVING	-
TE: PIPE SHA	PE CODES DN = CIRCLULAR, RG = RECTANGUL	A



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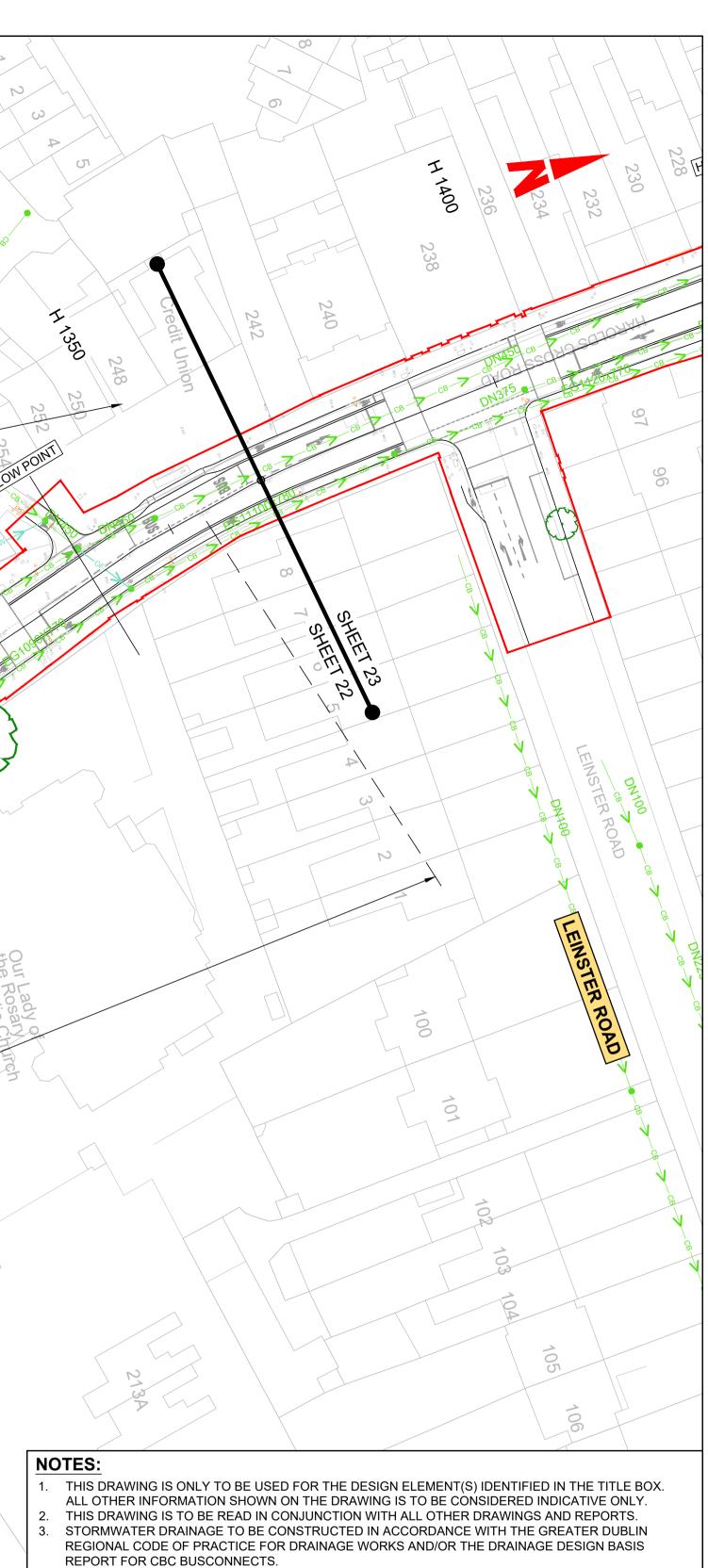
drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

or damage arising as a result of reliance by recipients on the information or any part of it). Any liabilities are hereby expressly disclaimed.



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4. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (MALIN HEAD DATUM). SURVEY GRID AND ALL COORDINATES ARE IN IRISH TRANSVERSE MERCATOR. EXISTING DRAINAGE NETWORK IS BASED ON RECORDS FROM IRISH WATER. PHYSICAL DRAINAGE

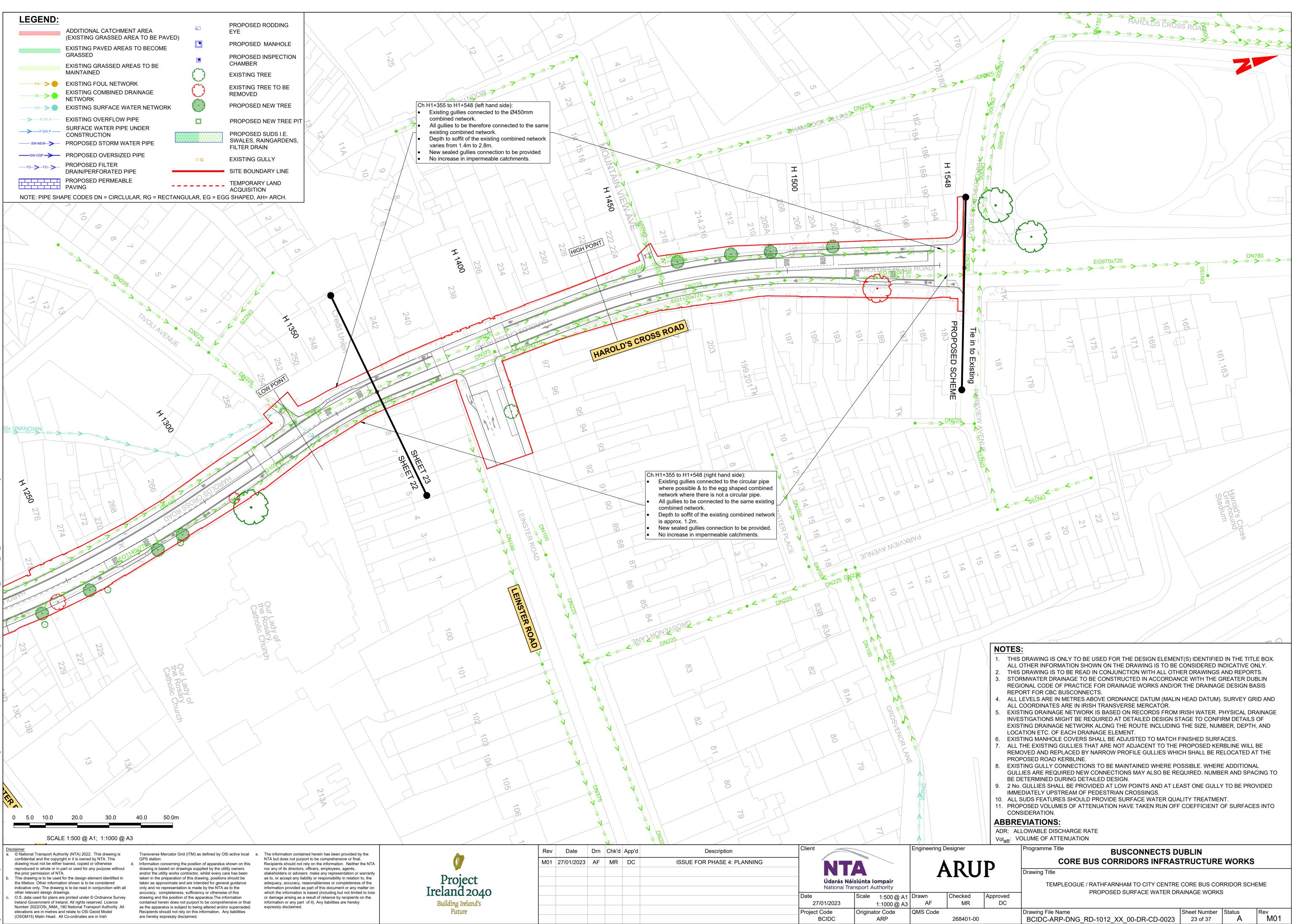
- INVESTIGATIONS MIGHT BE REQUIRED AT DETAILED DESIGN STAGE TO CONFIRM DETAILS OF EXISTING DRAINAGE NETWORK ALONG THE ROUTE INCLUDING THE SIZE, NUMBER, DEPTH, AND LOCATION ETC. OF EACH DRAINAGE ELEMENT.
- EXISTING MANHOLE COVERS SHALL BE ADJUSTED TO MATCH FINISHED SURFACES. ALL THE EXISTING GULLIES THAT ARE NOT ADJACENT TO THE PROPOSED KERBLINE WILL BE REMOVED AND REPLACED BY NARROW PROFILE GULLIES WHICH SHALL BE RELOCATED AT THE PROPOSED ROAD KERBLINE.
- EXISTING GULLY CONNECTIONS TO BE MAINTAINED WHERE POSSIBLE. WHERE ADDITIONAL GULLIES ARE REQUIRED NEW CONNECTIONS MAY ALSO BE REQUIRED. NUMBER AND SPACING TO BE DETERMINED DURING DETAILED DESIGN.
- 9. 2 No. GULLIES SHALL BE PROVIDED AT LOW POINTS AND AT LEAST ONE GULLY TO BE PROVIDED IMMEDIATELY UPSTREAM OF PEDESTRIAN CROSSINGS. 10. ALL SUDS FEATURES SHOULD PROVIDE SURFACE WATER QUALITY TREATMENT.
- 11. PROPOSED VOLUMES OF ATTENUATION HAVE TAKEN RUN OFF COEFFICIENT OF SURFACES INTO CONSIDERATION.

### **ABBREVIATIONS:**

ADR: ALLOWABLE DISCHARGE RATE Volatt: VOLUME OF ATTENUATION

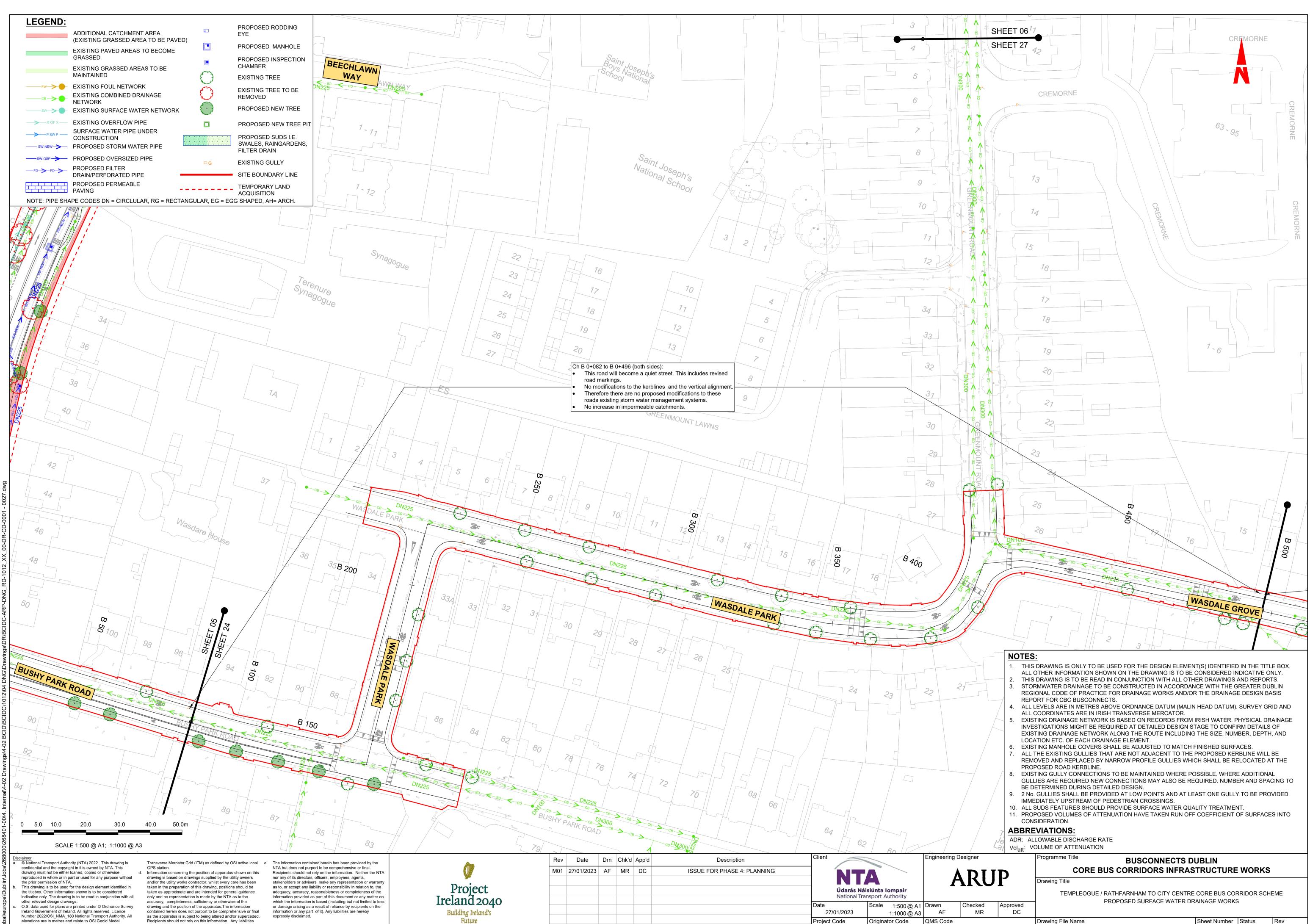
### Programme Title **BUSCONNECTS DUBLIN** CORE BUS CORRIDORS INFRASTRUCTURE WORKS

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		TEMPLEOGUE / RATHFARNHAM TO CITY CENTRE CORE BUS CORRIDOR SCHE PROPOSED SURFACE WATER DRAINAGE WORKS									
	Approved DC										
)		Drawing File Name BCIDC-ARP-DNG_RD-1012_XX_00-DR-CD-0022	Sheet Number 22 of 37	Status A	<sup>Rev</sup> M01						
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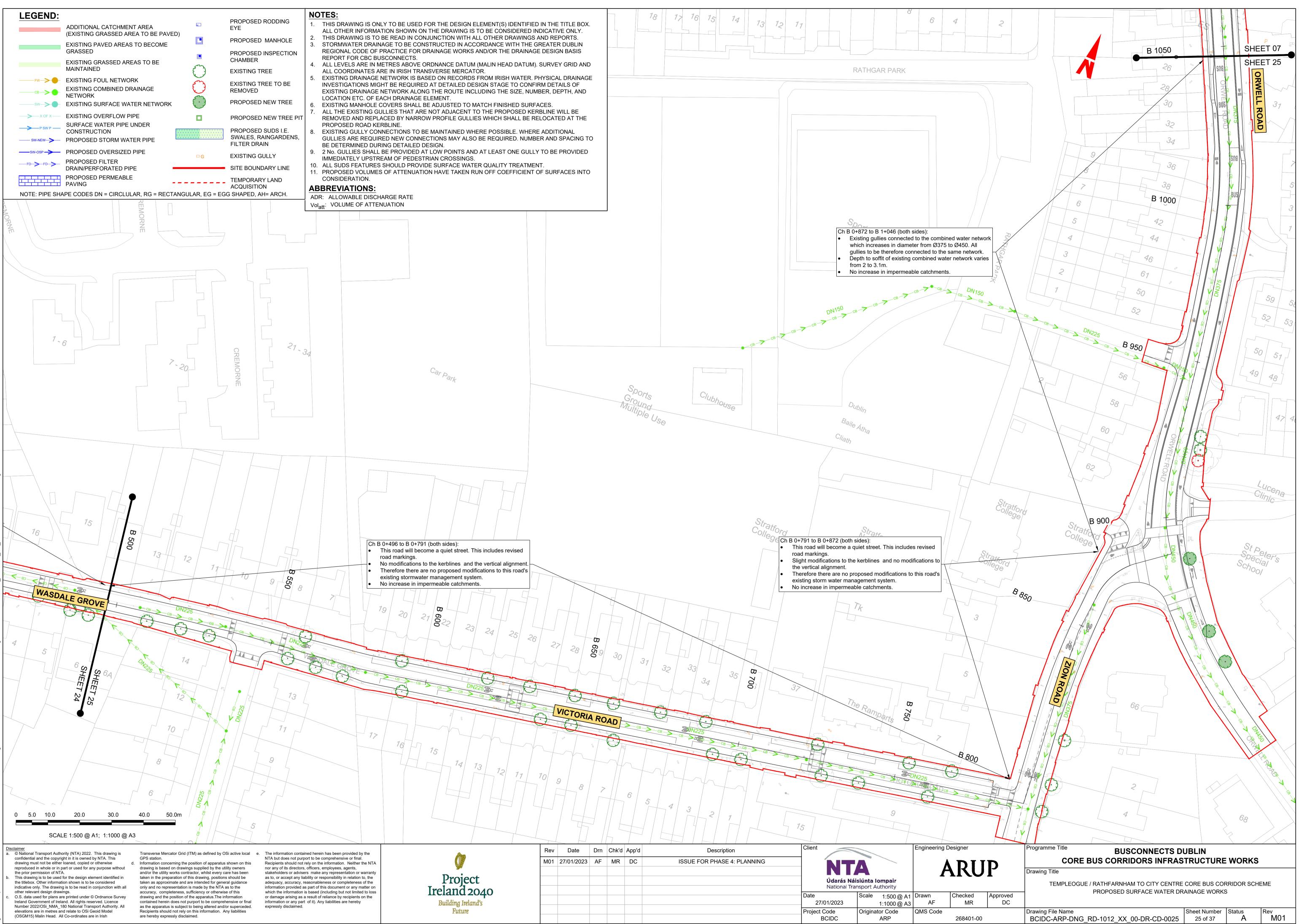
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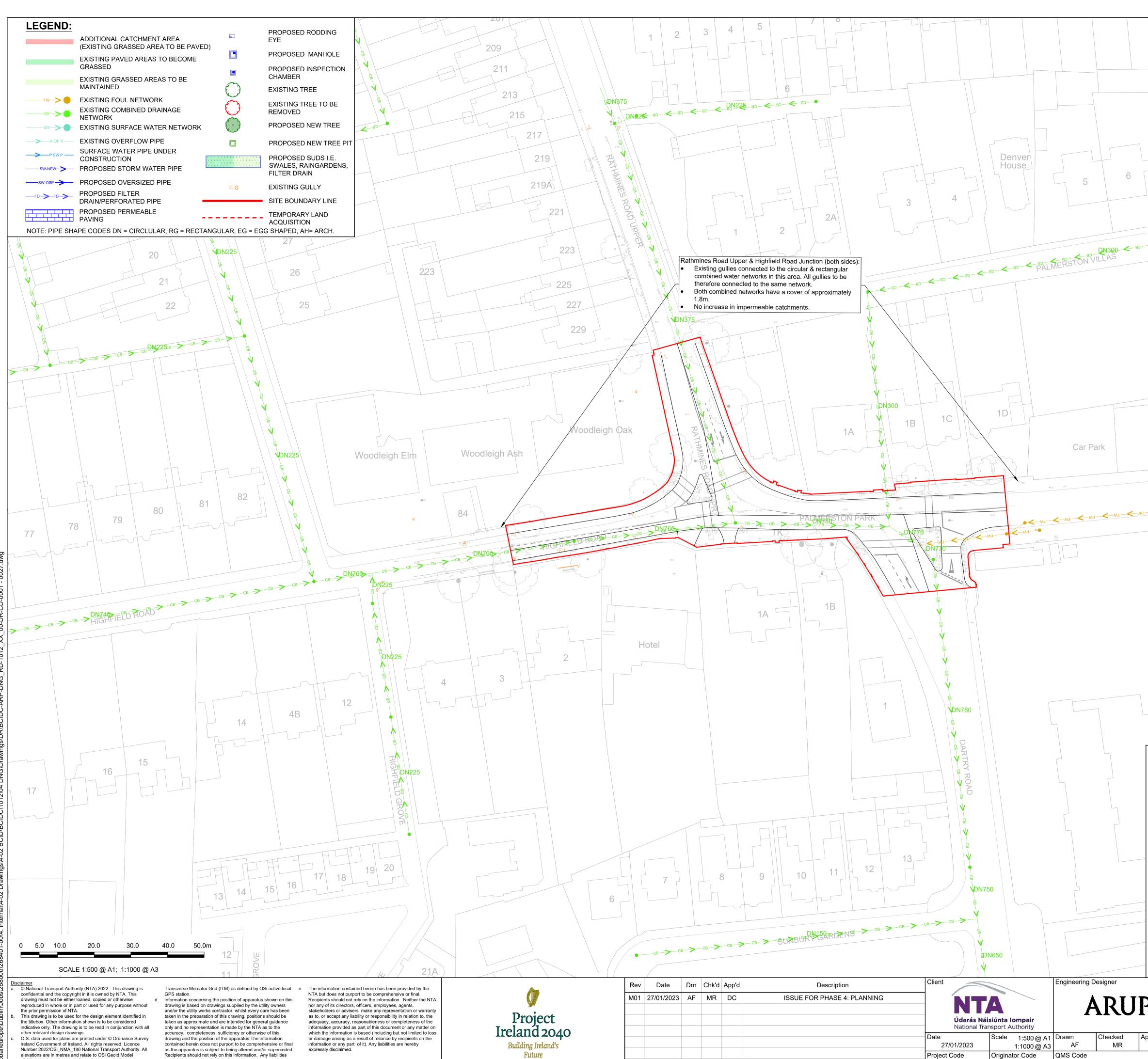
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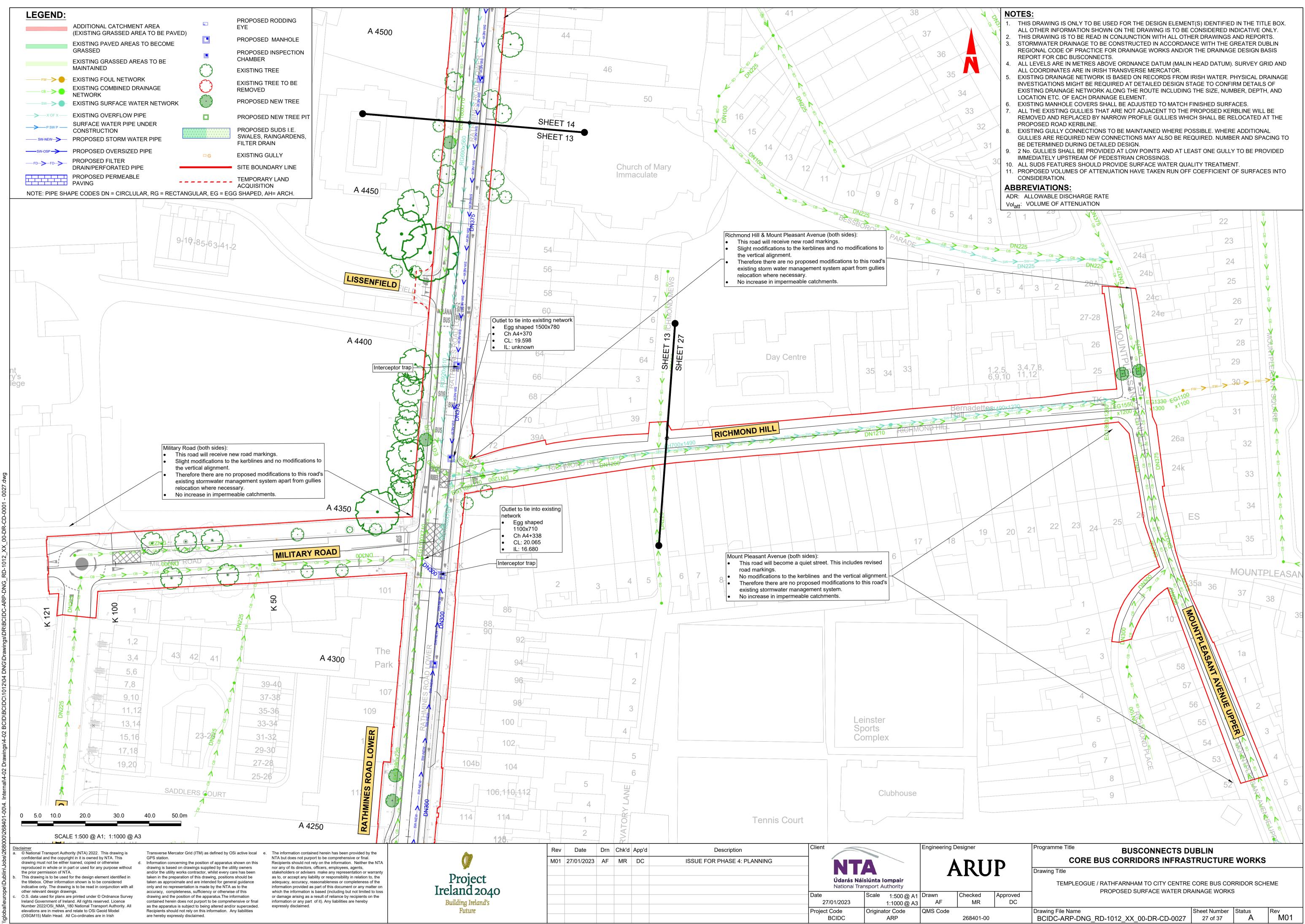
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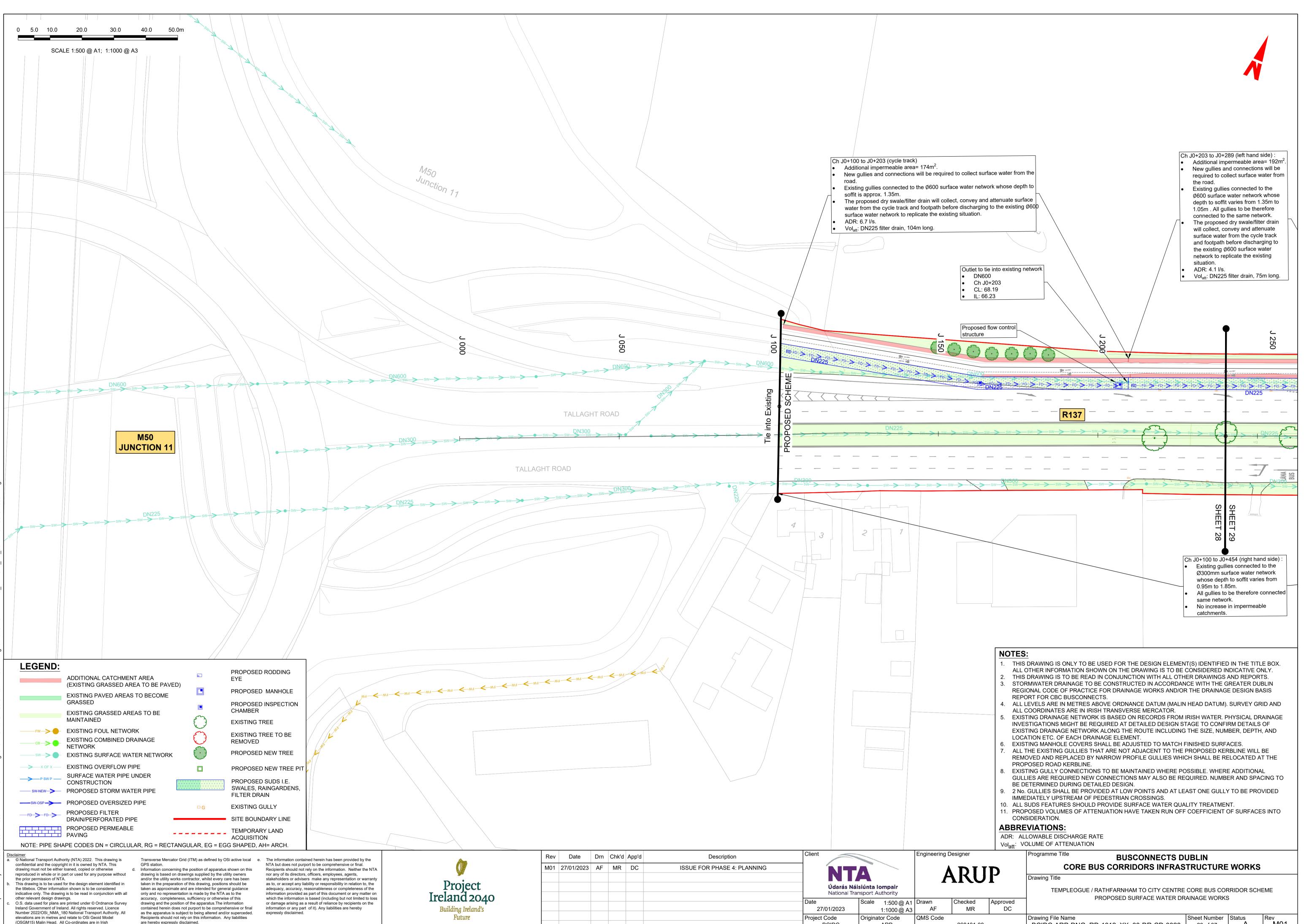


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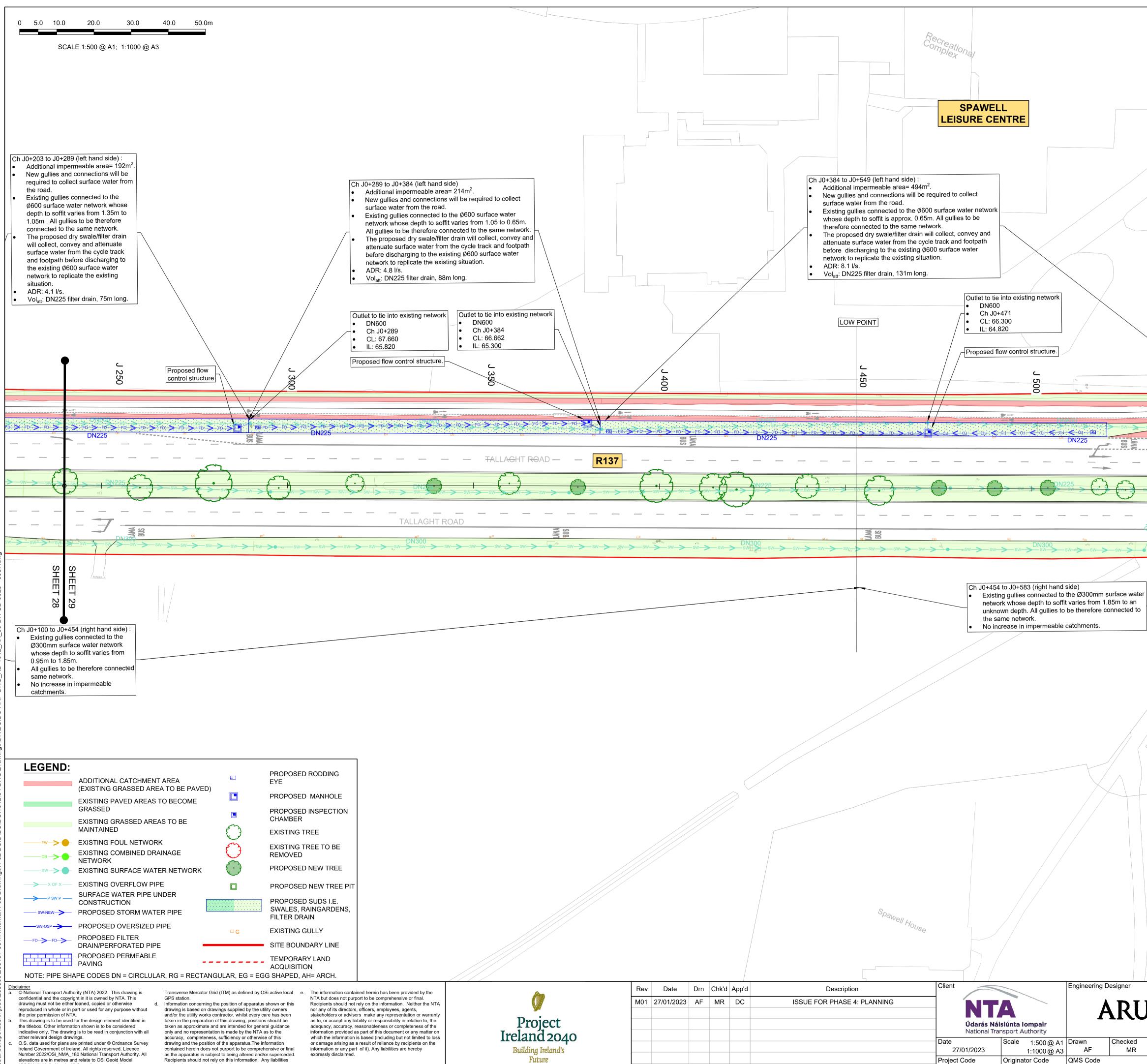
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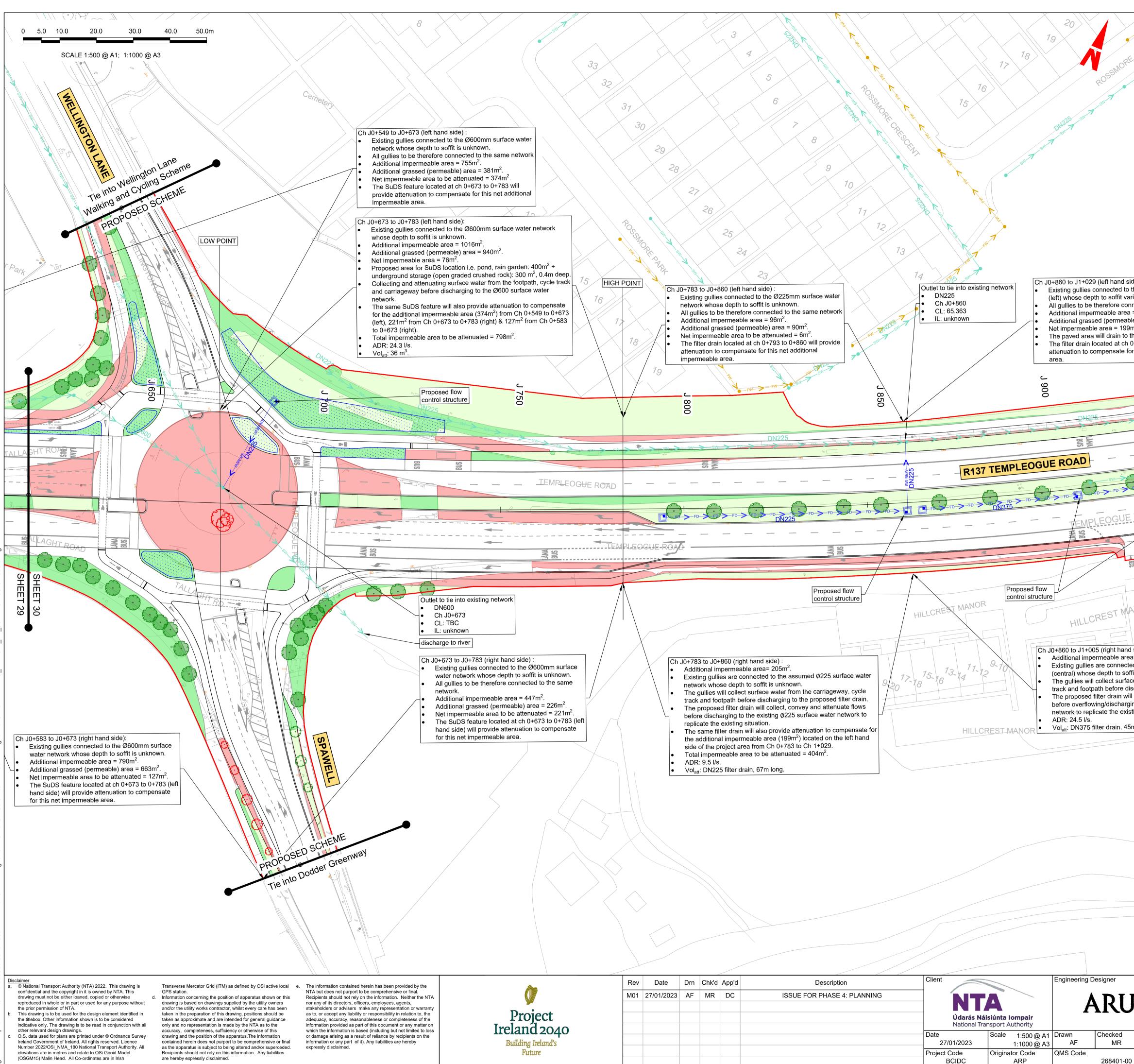
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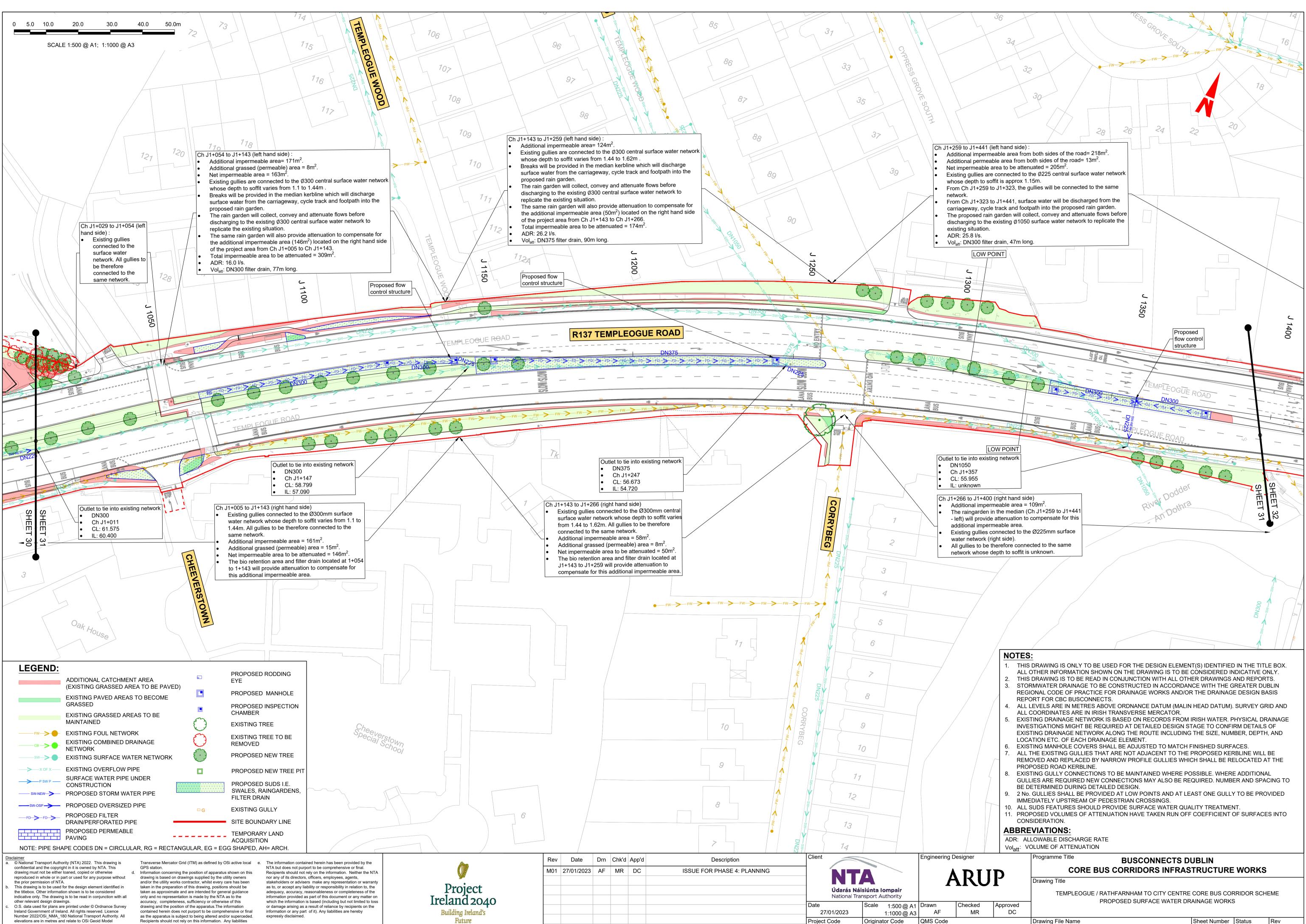
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FW>			EXISTING TREE
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	EXISTING SURFACE WATER NETWORK	$\mathbf{\mathbf{\dot{C}}}$	PROPOSED NEW TREE
	SURFACE WATER PIPE UNDER		PROPOSED NEW TREE PIT
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FD>FC	PROPOSED FILTER DRAIN/PERFORATED PIPE		SITE BOUNDARY LINE
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NOTE: PIP	PE SHAPE CODES DN = CIRCLULAR, RG = RECT	ANGULAR, EG = EG	G SHAPED, AH= ARCH.
de) : the Ø225mm surface v ries from 1.45 to 1.1m. nected to the same ne = 261m <sup>2</sup> . le) area = 38m <sup>2</sup> . m <sup>2</sup> . he grassed area. 0+783 to 0+860 will pro r this net additional imp	twork ovide	1000	
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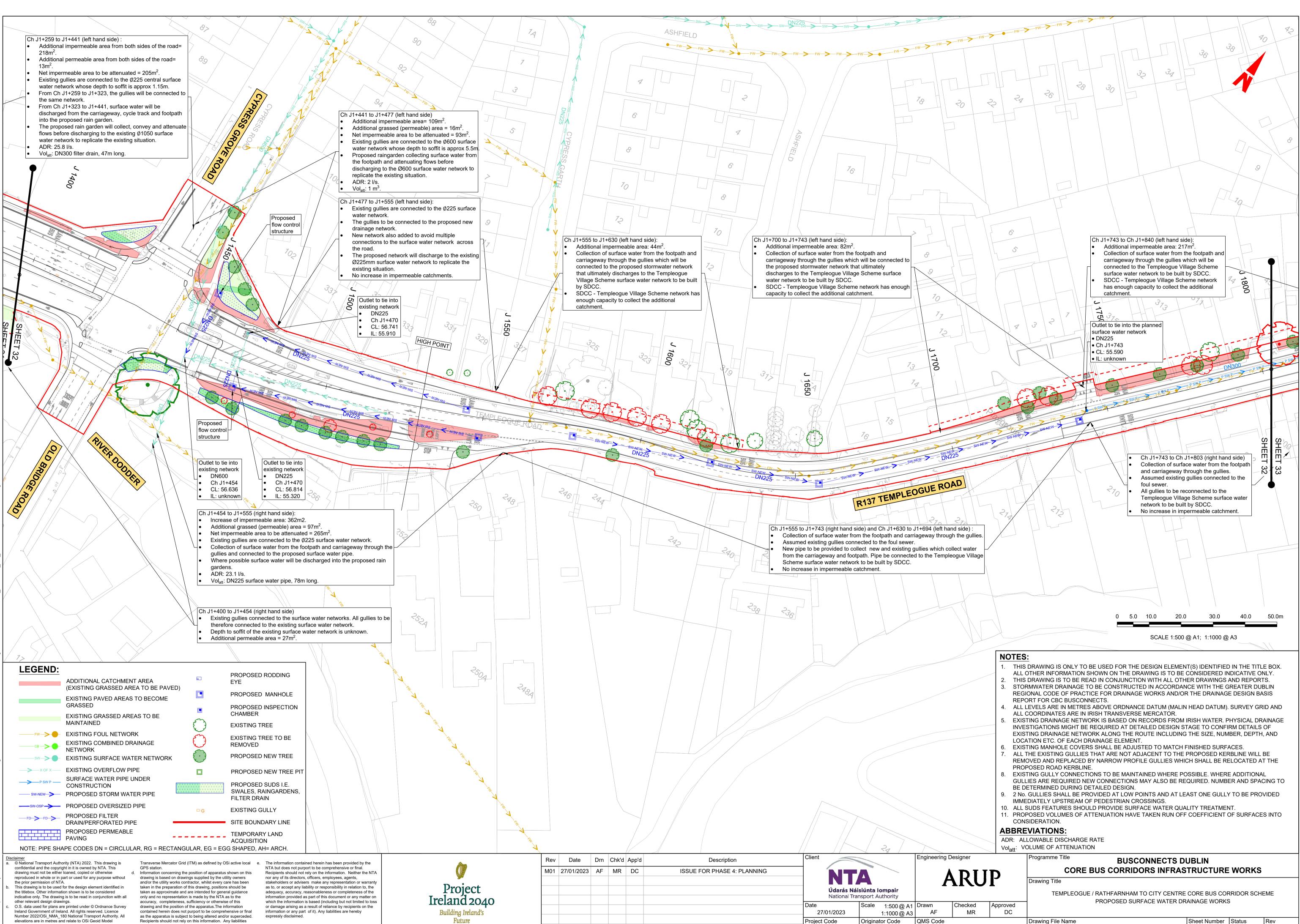
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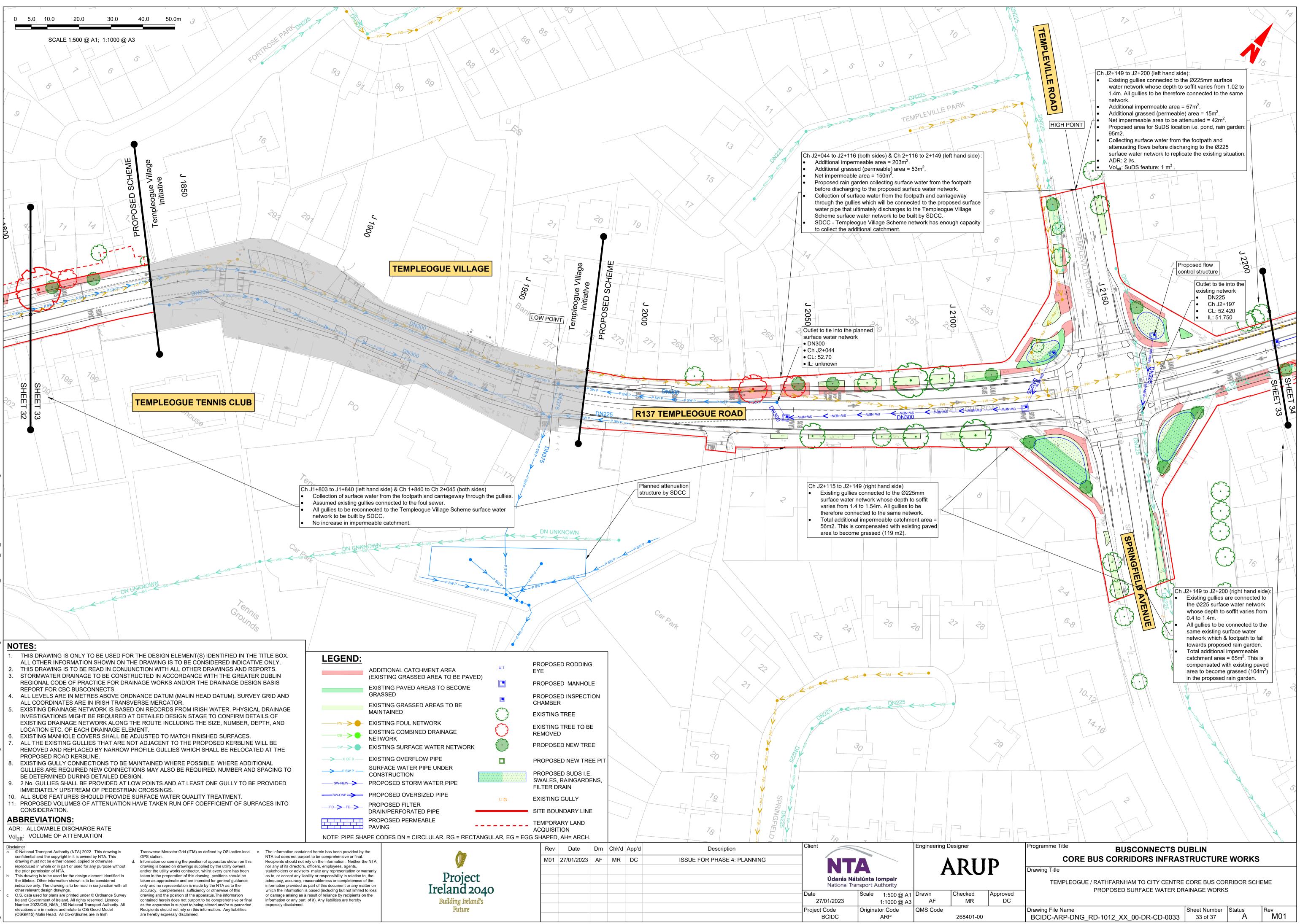
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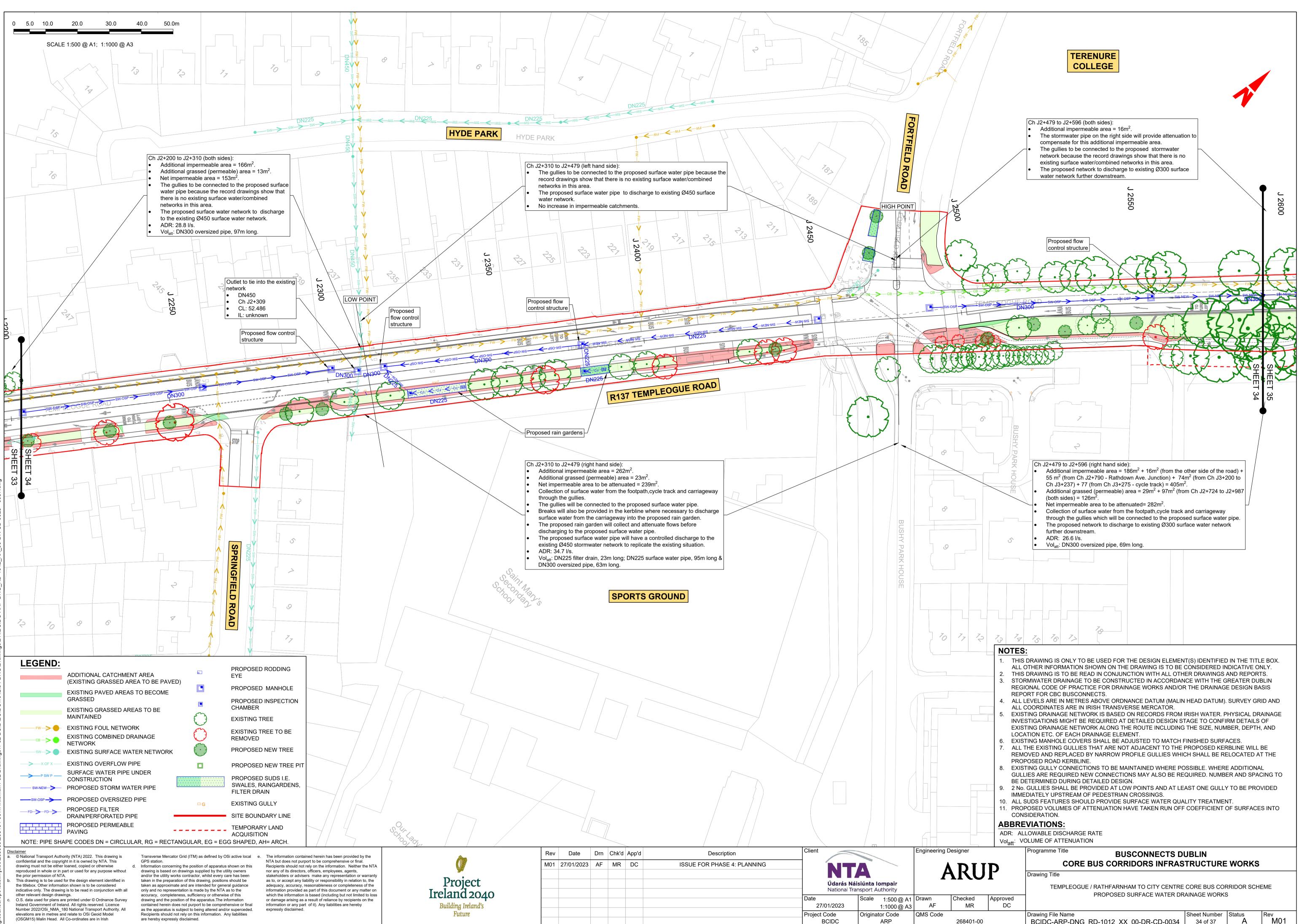
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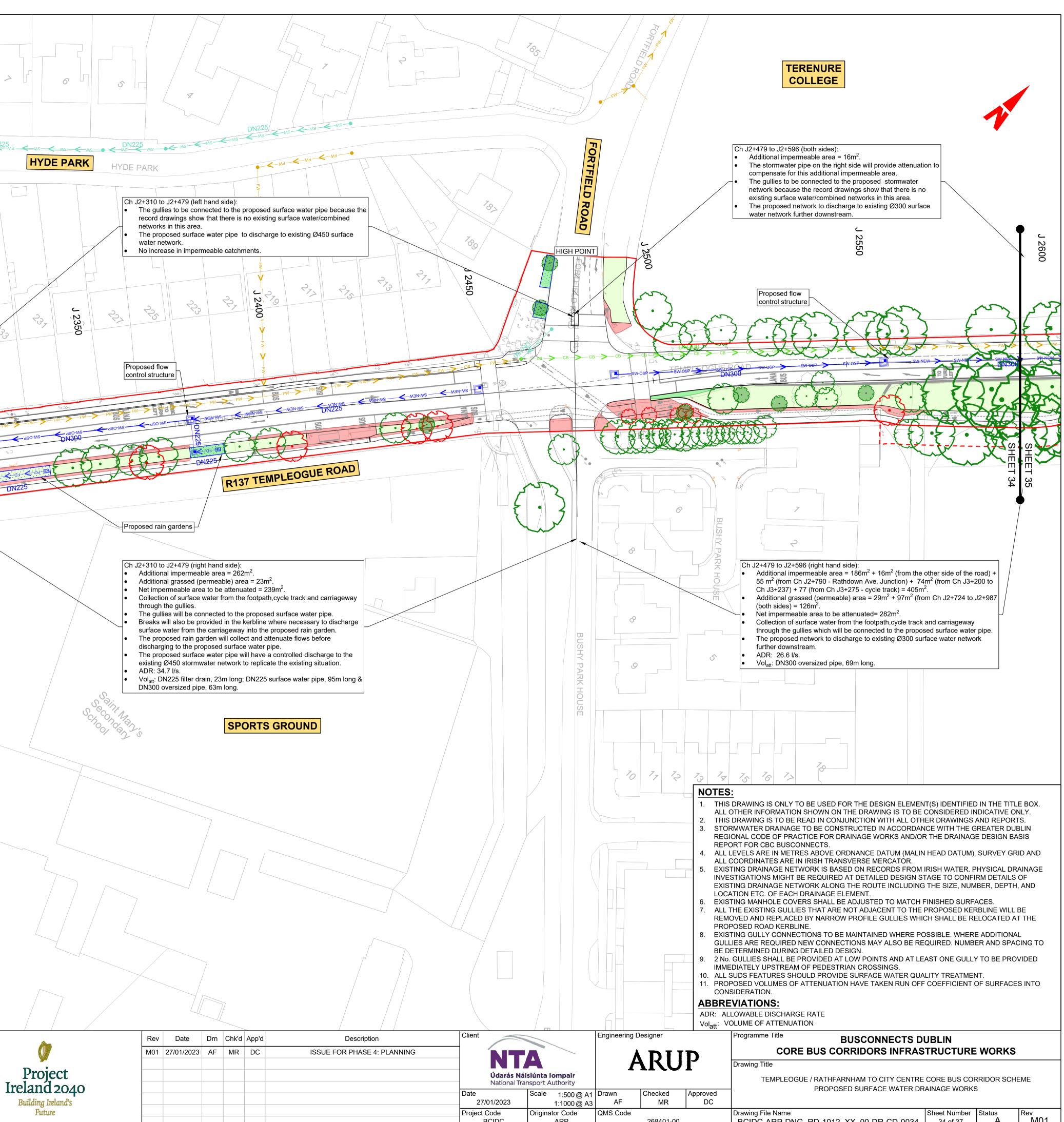
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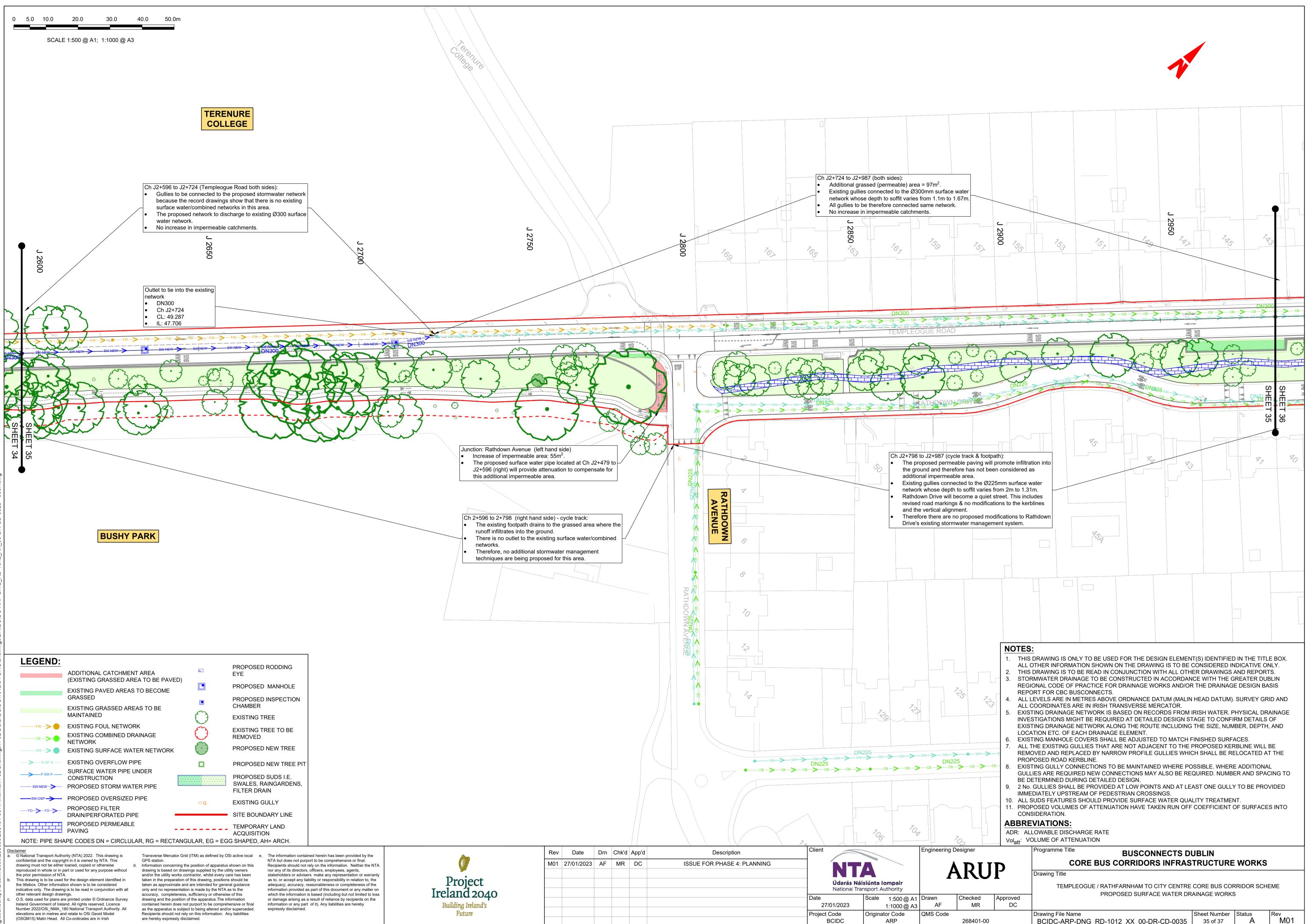
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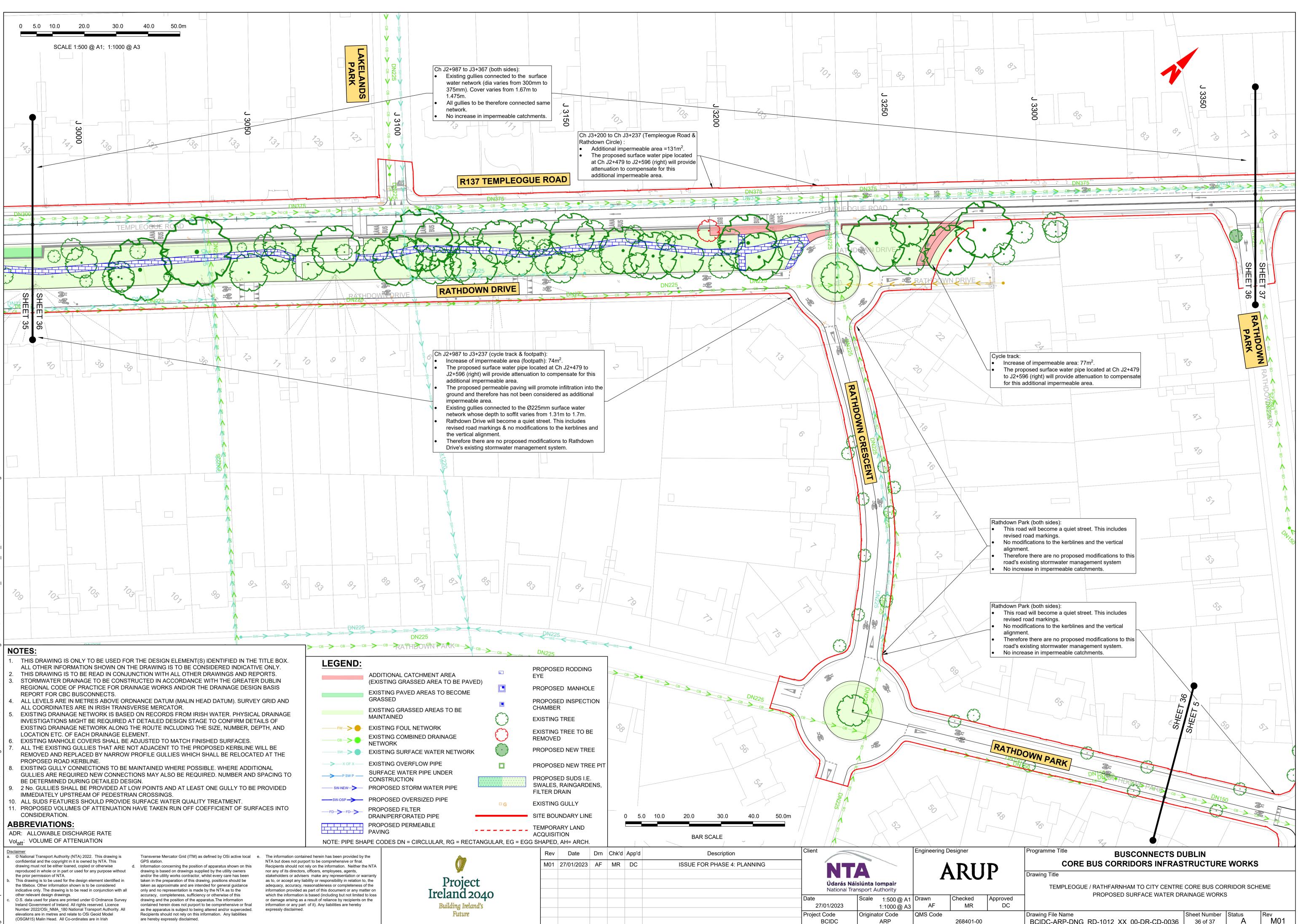


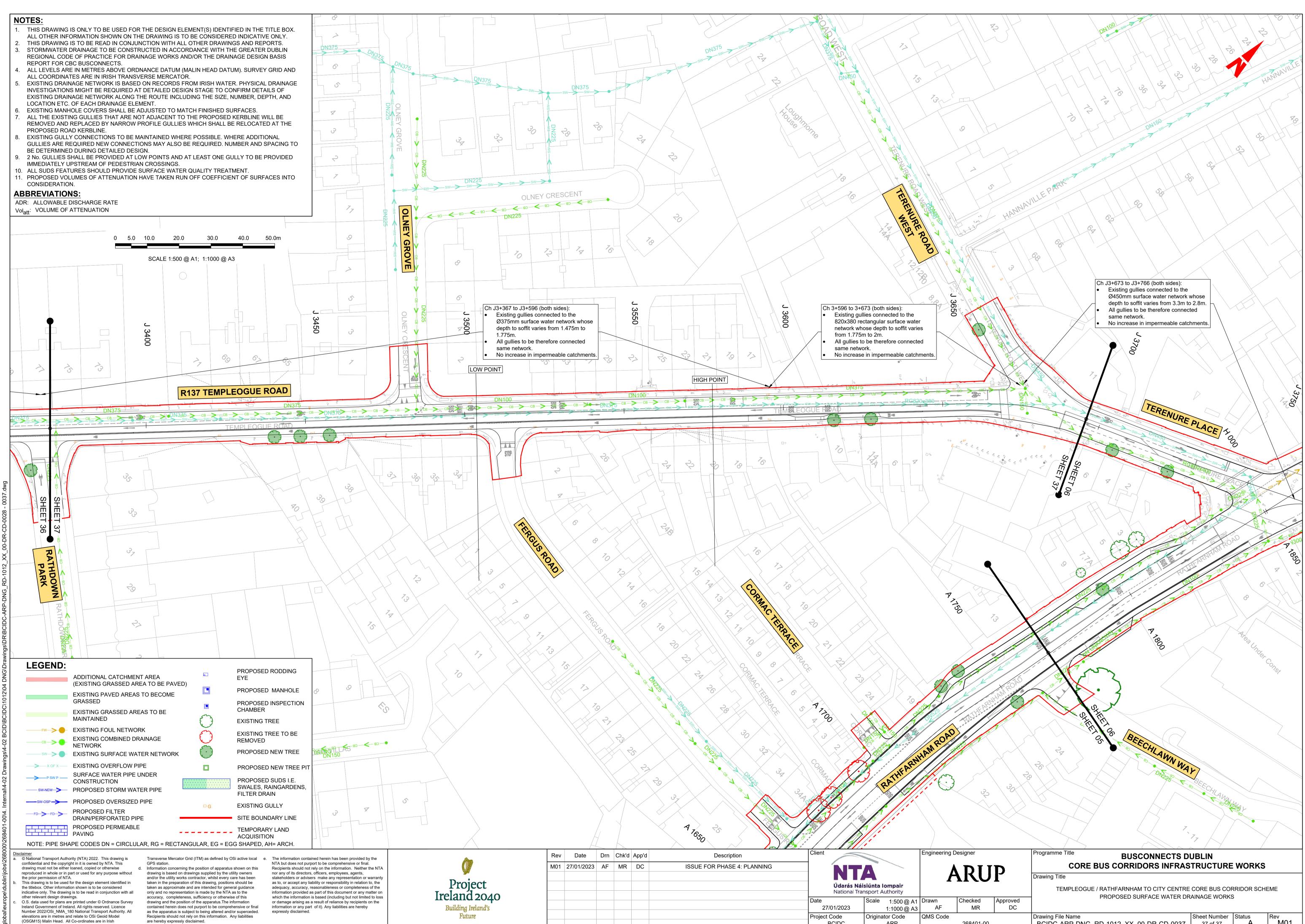


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