

FLOW CONTROL MANHOLE (HYDROBRAKE OPTIMUM OR SIMILAR) RESTRICTING FLOWS TO MAXQ 3.54 L/S DESIGN HEAD 1.723M

ATTENUATION FACILITY 4
 MAX 0.6m DEEP LOW FLOW CHANNEL TO STORE 5 YEAR CRITERIAL STORM
 MAX 0.4m DEEP USEABLE DETENTION BASIN TO STORE VOLUME BETWEEN 5 YEAR AND 100 YEAR CRITICAL STORM
 TWL (100 YEAR): 95.0m
 TWL (5 YEAR): 94.6m
 IL: 94.0m
 VOLUME OF LOW FLOW CHANNEL: 239m³
 VOLUME OF DETENTION BASIN: 292m³
 TOTAL VOLUME PROVIDED: 531m³
 TOTAL (100 YR) VOLUME REQUIRED: 458m³

EXTENT OF 5 YEAR ATTENUATION VOLUME

EXTENT OF 100 YEAR ATTENUATION VOLUME

BOULDERS FOR SCOUR PROTECTION

FFL96.000

ON ORIGINAL
 0 5 10 15 20 30 40 50mm

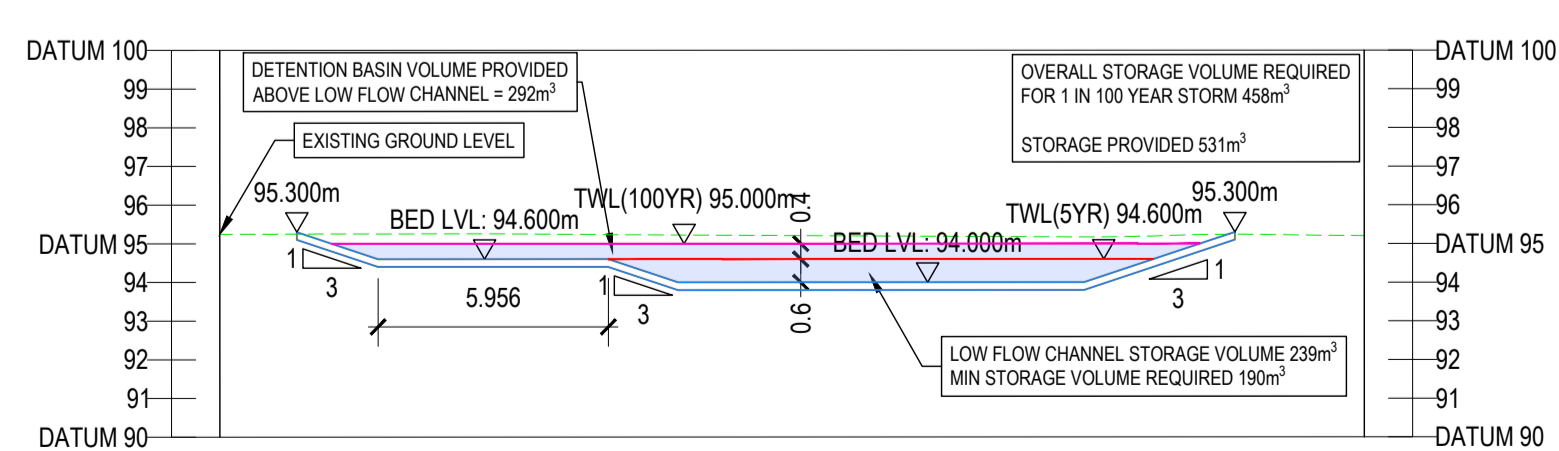
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NOTES:
 GENERAL NOTES:
 1. ALL DRAWINGS TO BE CHECKED BY CONTRACTOR ON SITE AND ENGINEER INFORMED OF DISCREPANCIES BEFORE WORK COMMENCES.
 2. ALL DIMENSIONS AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 3. ALL LEVELS ARE IN METERS AND ARE RELATED TO ORDNANCE DATUM. CO-ORDINATES RELATE TO NATIONAL GRID.
 4. CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF PAVEMENT LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 5. ALL WASTEWATER INFRASTRUCTURE INCLUDING FOUL SEWERS, CONNECTIONS AND MANHOLES TO SAME SHALL COMPLY WITH AND BE CONSTRUCTED IN ACCORDANCE WITH THE IRISH WATER CONNECTION AND DEVELOPER SERVICES WASTEWATER INFRASTRUCTURE STANDARD DETAILS DOCUMENT IW-CDS-5230-01.
 6. FOUL SEWERS PIPE MATERIAL TO BE IN ACCORDANCE WITH SECTION 3.13 OF THE IRISH WATER CODE OF PRACTICE WHICH IS REPRODUCED IN SPECIFICATION APPENDIX G/4.
 7. SURFACE WATER SEWER PIPE MATERIAL TO BE CLASS H CONCRETE TO EN1916 & IS 6 2004 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
 8. LOCATION AND INVERT LEVELS OF EXISTING MANHOLES AND OUTFALL POINTS, TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
 9. ALL COVER LEVELS TO MATCH FINISHED ROAD/VERGE/FOOTPATH/ CYCLETRACK LEVELS UNLESS OTHERWISE STATED.
 10. ALL SURFACE WATER DRAINAGE WORKS/CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
 11. CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL FOUL & SURFACE WATER SEWERS / DRAINAGE UPON COMPLETION OF SAME.

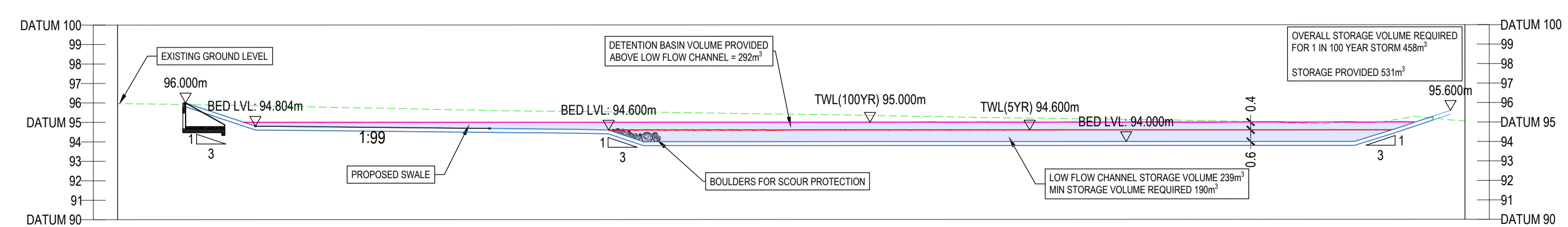
SERVICES LEGEND

- PROPOSED SITE BOUNDARY
- EXISTING SURFACE WATER SEWER AND MANHOLE
- PROPOSED SURFACE WATER SEWER AND MANHOLE
- PROPOSED SURFACE WATER INSPECTION CHAMBER AND 150mm UPVC HOUSE DRAIN
- ROAD GULLY
- PROPOSED SLUDS CONNECTION TO TREE PIT
- PERMEABLE PAVING (PRIVATE)
- PERMEABLE PAVING (MANAGEMENT COMPANY)
- PROPOSED FILTER DRAIN WITH SURFACE WATER SWALE
- EXISTING DITCH/STREAM
- EXISTING FOUL SEWER
- EXISTING FOUL RISING MAIN
- SERVICES SEPARATION DISTANCE/WAYLEAVE
- PROPOSED LEVELS
- EXISTING LEVELS
- FINISHED FLOOR LEVEL
- ROAD GRADIENT

PLAN OF ATTENUATION FACILITY
 SCALE 1:250



POND 4 - SECTION A-A
 SCALE: 1:250



POND 4 - SECTION B-B
 SCALE: 1:250

P02	13/06/22	STAGE 3 SHD	PJC	NGG
P01	02/11/2021	STAGE 2 SHD	GJS	NGG
rev	date	description	by	chkd.
client approval		A - Approved		
		B - Approved with comments		
		C - Do not use		
suitability		issue purpose		
S2 - INFORMATION		PLANNING		
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project ref:				
NEWCASTLE SOUTH				
drawing title:				
ATTENUATION FACILITY 4				
client:				
CAIRN HOMES PROPERTIES LTD				
designed by	author	scale	sheet size	
NGG	IC	AS SHOWN	A1	
drawing no.	revision			
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