



St. Finian's Church

Rectory

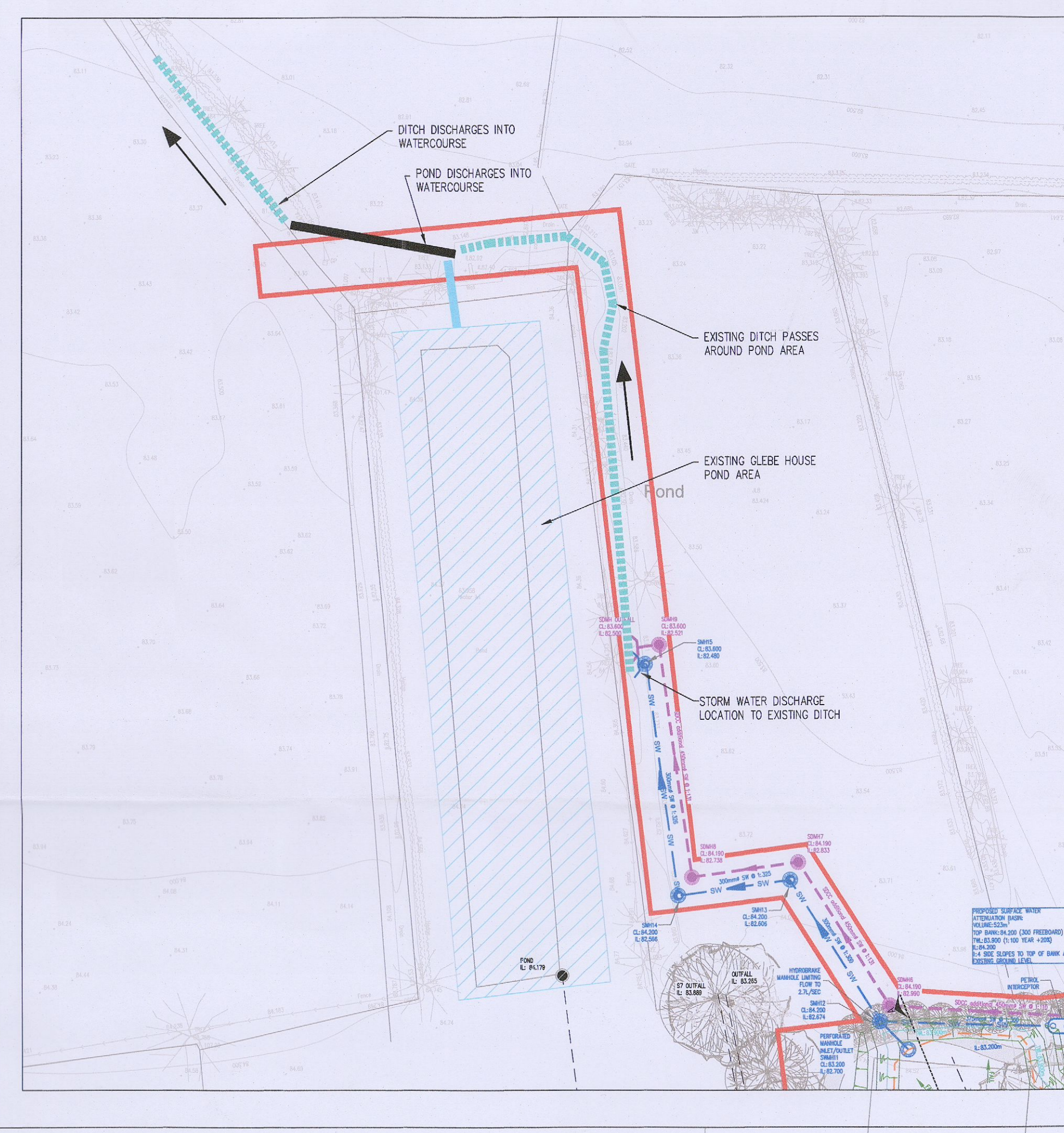
Glebe Height

Athgoe

89.1

LEGEND

- EXISTING FOUL SEWER
- EXISTING SURFACE WATER DITCH
- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER
- PROPOSED 300mm additional 450mm SW
- PROPOSED 150mm PERFORATED PIPE (PERMEABLE PAVING COLLECTOR PIPE)
- PROPOSED PERMEABLE PAVING
- PROPOSED PERMEABLE COLLECTION INSPECTION CHAMBER
- PROPOSED TREE PIT
- PROPOSED OVERFLOW FROM TREE PITS
- PROPOSED ROAD GULLY
- PROPOSED RAINWATER BUTT
- PROPOSED REAR GARDEN INFILTRATION TRENCH WITH PERFORATED COLLECTOR PIPE
- PROPOSED SWALE
- PROPOSED KERB INLET
- PROPOSED SWALE COLLECTION CHAMBER WITH GRATED LID
- SCALE CHECK DAM



There are 30 units in the proposed development.
 4460/day x 30units = 13,380/day or 13,380m³/day
 13,380/90/24h = 0.25486m³/sec (1.0197)
 Peak flow = 2.5486m³/sec (1.0197)
 Risk water requires that an average 30mm 60M³ from the foul network.
 3 x 0.25486m³/sec = 0.76458m³/sec needs to be removed from foul network.

Using the rational method to calculate the equivalent contributing area
 Q=2.78 x I x A x C_f or rearranging A=Q/(2.78 x I x C_f)
 Q=0.76458m³/sec
 I=0.8mm/hr (sub manual recommended 0.5mm/hr which reduces area below 24km² instead of 288km²)
 C_f=0.3 as recommended in sub manual
 C=1.3 as recommended in sub manual
 A=2.78/(2.78 x 0.8 x 0.3 x 1.3) = 0.03857km² or 288km²
 Area to be found is 288km²
 Area proposed 820m²

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- NOTES**
- For setting out refer to Architects drawings.
 - This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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P1	18.03.2022	ISSUED FOR PLANNING	SC	SS
P2	18.03.2022	REVISED AND REISSUED FOR PLANNING	SC	SS
P3	21.11.2022	REVISED AND REISSUED FOR RFI	SC	SS
P4	02.12.2022	ROAD LAYOUT REVISED	SC	SS
P5	20.02.2023	REVISED AND REISSUED FOR RFI	SC	SS

JFOC Architects		DUBLIN LONDON LIMERICK	
Proposed Development at Newcastle, Co. Dublin			
Proposed Drainage Layout			
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