



GENERAL NOTES:

1. ALL DIMENSIONS AND LEVELS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECT'S AND OTHER ENGINEERING DRAWINGS.

LEGEND

- PROPOSED uPVC STORM SEWER & 1200mm Ø MH
- PROPOSED uPVC STORM SEWER & 1200mm Ø MH WITH HYDROBRAKE
- PROPOSED uPVC STORM SEWER & 1200mm Ø BACKDROP MH
- PROPOSED uPVC FOUL SEWER & 1200mm Ø MH
- PROPOSED 150mm PERFORATED PIPE UNDERDRAINING PERMEABLE AREAS
- EXISTING STORM SEWER
- EXISTING FOUL SEWER
- EXISTING STORM SEWER TO BE DECOMMISSIONED & GRUBBED UP
- PROPOSED RODDING EYE
- PROPOSED GULLY
- PROPOSED END CAP
- PROPOSED 210L RAINWATER BUTT
- PROPOSED 450mm Ø INSPECTION CHAMBER WITH SILT TRAP
- PROPOSED RAINWATER GARDEN
- PROPOSED ATTENUATION CRATES (POLYSTORM DEEP OR SEA)
- PROPOSED POROUS ASPHALT ROAD
- PROPOSED PERMEABLE PAVING

150mm PERFORATED PIPE TO COLLECT RUNOFF FROM THE PERMEABLE PAVING AND POROUS ASPHALT. CAMBER DESIGNED SO THAT ALL RUNOFF WILL FLOW TOWARD THE OUTSIDE OF THE ROAD. RODDING EYES PROVIDED TO ALLOW ACCESS IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H & INSPECTION CHAMBER WITH SILT TRAP TO COLLECT SEDIMENT PRIOR TO DISCHARGE TO THE STORM SEWER

MANHOLE TO BE DECOMMISSIONED AND REMOVED

178m³ OF ATTENUATION STORAGE REQUIRED TO PROVIDE STORAGE FOR THE 1 IN 100 YEAR STORM EVENT +20% CLIMATE CHANGE AND +10% URBAN CREEP. MANHOLE S4 & S6 TO HAVE A 300mm SUMP TO CATCH SEDIMENT. ONLINE ATTENUATION TANK TO BE 3m WIDE x 52m LONG x 1.2m DEEP. POLYSTORM GEOCELLULAR CRATES (PSM1) SIMILAR OR APPROVED UNITS TO BE USED. ACCESS INSPECTION CHAMBER TO BE FITTED TO ALLOW FOR MAINTENANCE. TANK TO BE WRAPPED WITH IMPERMEABLE MEMBRANE AND THEN A GEOTEXTILE TERRAM

MANHOLE S6 TO BE FITTED WITH A FLOW CONTROL DEVICE TO RESTRICT FLOW TO QBAR RATE OF 1.0l/s. HYDROBRAKE WITH DESIGN HEAD OF 2.431m OR SIMILAR APPROVED TO BE USED. 150mm Ø OVERFLOW PIPE TO BE CONNECTED AT HIGH LEVEL INTO PIPE 1.004 (MINIMUM LEVEL TO BE 20.130 SO IT IS ABOVE THE ATTENUATION TANK)

150mm PERFORATED PIPE TO COLLECT RUNOFF FROM THE PERMEABLE PAVING AND POROUS ASPHALT. CAMBER DESIGNED SO THAT ALL RUNOFF WILL FLOW TOWARD THE OUTSIDE OF THE ROAD. RODDING EYES PROVIDED TO ALLOW ACCESS IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H & INSPECTION CHAMBER WITH SILT TRAP TO COLLECT SEDIMENT PRIOR TO DISCHARGE TO THE STORM SEWER

PROPOSED 225mm FOUL SEWER TO CONNECT TO EXISTING 225mm FOUL SEWER VIA BACKDROP

PROPOSED 225mm STORM SEWER TO CONNECT TO EXISTING 750mm STORM SEWER AT SOFFIT LEVEL

STORM Network 1										
Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Pipe Length	Upstream Manhole			Downstream Manhole		
					Number	Invert	Cover	Number	Invert	Cover
1.000	225	80	uPVC	16.221	S1	20.928	21.953	S2	20.725	21.880
1.001	225	100	uPVC	45.999	S2	20.725	21.880	S3	20.265	21.354
1.002	225	50	uPVC	13.505	S3	20.265	21.354	S4*	19.995	21.073
1.003	225	170	uPVC	53.759	S4*	18.927	21.073	S6*	18.611	21.042
1.004	225	30	uPVC	7.690	S6*	18.611	21.042	EXS7	18.355	21.130
2.000	225	100	uPVC	58.193	S5	20.100	21.589	S6*	19.518	21.042

FOUL Network 1										
Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Pipe Length	Upstream Manhole			Downstream Manhole		
					Number	Invert	Cover	Number	Invert	Cover
1.000	225	60	uPVC	41.262	F1	20.890	21.895	F2	20.202	21.429
1.001	225	60	uPVC	8.476	F2	20.202	21.429	F3	20.061	21.315
1.002	225	45	uPVC	53.289	F3	20.061	21.315	F4	18.877	21.011
1.003	225	60	uPVC	33.719	F4	18.877	21.011	EXF5*	18.315	21.370

* BACKDROP MANHOLE

INDICATIVE DRAINAGE LAYOUT
SCALE 1:200

REV	DATE	DESCRIPTION	BY	APPR
B	10.01.24	MINOR CHANGES TO BLOCK LAYOUT	SM	MK
A	27.01.23	MINOR CHANGES AND TREE PITS REMOVED & RAINGARDENS ADDED	SM	MK

DRAWING STATUS: **PART_8**

CLIENT: **FINGAL COUNTY COUNCIL**

JOB DESCRIPTION: **18NO. DWELLING HOUSING DEVELOPMENT, RATHMORE ROAD, LUSK, CO. DUBLIN**

INDICATIVE DRAINAGE LAYOUT

PROJECT No.: P-3633	DRAWING No.: C-02
SCALE: 1:200	SHEET: A1
DATE: 23.01.23	REV. No.: B

DRAWN BY: SM	CHECKED BY: MK	APPROVED BY: PMCM
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