

GENERAL NOTES:

- Written dimensions take precedent over scaled dimensions
- All dimensions are in metres unless noted otherwise
- Any discrepancies found on this drawing should be immediately reported to the engineers
- This drawing is to be read in conjunction with all relevant engineers drawings, specifications and contract documents
- All works are to be in accordance with the relevant and current Health and Safety legislation
- Specification of the works to be to the appropriate Irish standard of the equivalent British standard

- (DC) = Approved slot drainage channel system - refer to drainage notes
- rg = storm road gully
- rwp = rainwater downpipe
- aj = access junction

DRAINAGE:

- EXISTING INVERTS AT PROPOSED CONNECTION TO EXISTING SEWERS/CULVERT TO BE DETERMINED / CONFIRMED ON SITE AND REPORTED IMMEDIATELY TO THE ENGINEERS
- DRAINAGE CHANNELS TO RAMP/PARKING AREAS TO BE 'ACO MULTIDRAIN M150D' CHANNEL C/W SLOTTED STEEL GRATINGS (GALVANISED); C210 LOAD CLASS - OUTFALL VIA BP INTERCEPTOR AND ATTENUATION AREA TO EXISTING CULVERT
- SLOT DRAINAGE CHANNELS TO BUILDING PERIMETER (TO EXTENTS INDICATED) TO BE 'ACO MULTIDRAIN PPD BRICKSLOT' OR SIMILAR APPROVED. CHANNELS TO DISCHARGE TO STORM DRAINAGE NETWORK
- DRAINAGE CHANNELS TO YARD AREA TO BE 'ACO MULTIDRAIN M100D' CHANNEL C/W SLOTTED STEEL GRATINGS (GALVANISED); C210 LOAD CLASS - OUTFALL TO BE TRAPPED AND DISCHARGE TO FOUL SEWER
- STORM DISCHARGE FROM ROAD GULLIES TO BE 150mmØ AT MIN. 1:150 GRADIENT UNLESS NOTED OTHERWISE
- RAINWATER PIPES TO BE 150mmØ UNLESS NOTED OTHERWISE
- BP INT = NSBP004 KINGSPAN CLASS 1 BY-PASS SEPARATOR OR SIMILAR APPROVED

Legend

- STORM DRAIN
- FOUL DRAIN
- (DC) ACO MULTIDRAIN PPD BRICKSLOT (TO DISCHARGE TO NEAREST STORM DRAIN)
- (DC) ACO MULTIDRAIN M150D CHANNEL C/W SLOTTED STEEL GRATINGS (GALV.); D400 LOAD CLASS
- (DC) ACO MULTIDRAIN M100D CHANNEL C/W SLOTTED STEEL GRATINGS (GALV.); D400 LOAD CLASS

Rev	Drawn	Chk'd	App'd	Description	Date
-	MIN	AOD	JG	PLANNING APPLICATION ISSUE	MAR 22

PLANNING APPLICATION PURPOSES ONLY

JA Gorman
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project managers

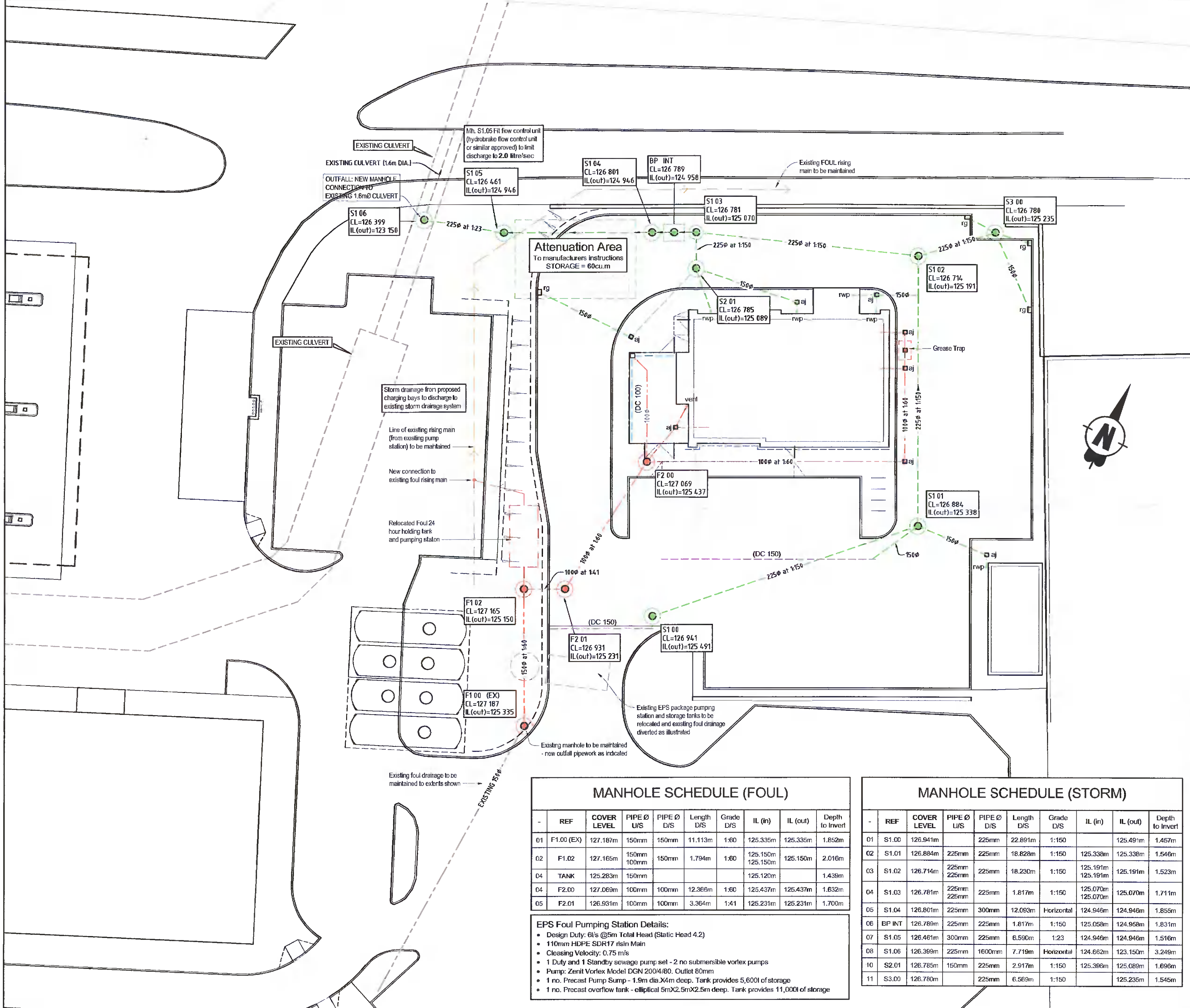
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CLIENT: **PETROGAS GROUP LTD**

PROJECT TITLE:
Electric Vehicle fast-charging hub & Coffee Drive-thru Facility at Tootenhill, Rathcoole, Co.Dublin

DRAWING TITLE:
DRAINAGE LAYOUT

PLOT SIZE: A2	PLOT SCALE: 1:200	DRAWN BY: MN
PROJECT No: 3644	DRAWING No: P3644-C005	REV: -



MANHOLE SCHEDULE (FOUL)

REF	COVER LEVEL	PIPE Ø U/S	PIPE Ø D/S	Length D/S	Grade D/S	IL (in)	IL (out)	Depth to Invert	
01	F1.00 (EX)	127.187m	150mm	150mm	11.113m	1:60	125.335m	125.335m	1.852m
02	F1.02	127.165m	150mm	150mm	1.794m	1:60	125.150m	125.150m	2.016m
04	TANK	125.283m	150mm				125.120m		1.438m
04	F2.00	127.069m	100mm	100mm	12.366m	1:60	125.437m	125.437m	1.632m
05	F2.01	126.931m	100mm	100mm	3.364m	1:41	125.231m	125.231m	1.700m

MANHOLE SCHEDULE (STORM)

REF	COVER LEVEL	PIPE Ø U/S	PIPE Ø D/S	Length D/S	Grade D/S	IL (in)	IL (out)	Depth to Invert	
01	S1.00	126.941m	225mm	225mm	22.891m	1:150	125.491m	125.491m	1.457m
02	S1.01	126.884m	225mm	225mm	18.828m	1:150	125.338m	125.338m	1.546m
03	S1.02	126.714m	225mm	225mm	18.230m	1:150	125.191m	125.191m	1.523m
04	S1.03	126.781m	225mm	225mm	1.817m	1:150	125.070m	125.070m	1.711m
05	S1.04	126.801m	225mm	300mm	12.093m	Horizontal	124.946m	124.946m	1.855m
06	BP INT	126.789m	225mm	225mm	1.817m	1:150	125.058m	124.958m	1.831m
07	S1.05	126.461m	300mm	225mm	6.590m	1:23	124.946m	124.946m	1.516m
08	S1.06	126.399m	225mm	1600mm	7.719m	Horizontal	124.662m	123.150m	3.249m
10	S2.01	126.785m	150mm	225mm	2.917m	1:150	125.396m	125.089m	1.696m
11	S3.00	126.780m	225mm	225mm	6.569m	1:150	125.235m	125.235m	1.545m

EPS Foul Pumping Station Details:

- Design Duty: 6l/s @5m Total Head (Static Head 4.2)
- 110mm HDPE SDR17 risin Main
- Cleasing Velocity: 0.75 m/s
- 1 Duty and 1 Standby sewage pump set - 2 no submersible vortex pumps
- Pump: Zenit Vortex Model DGN 2004/80. Outlet 80mm
- 1 no. Precast Pump Sump - 1.9m dia X4m deep. Tank provides 5,600l of storage
- 1 no. Precast overflow tank - elliptical 5mX2.5mX2.5m deep. Tank provides 11,000l of storage