

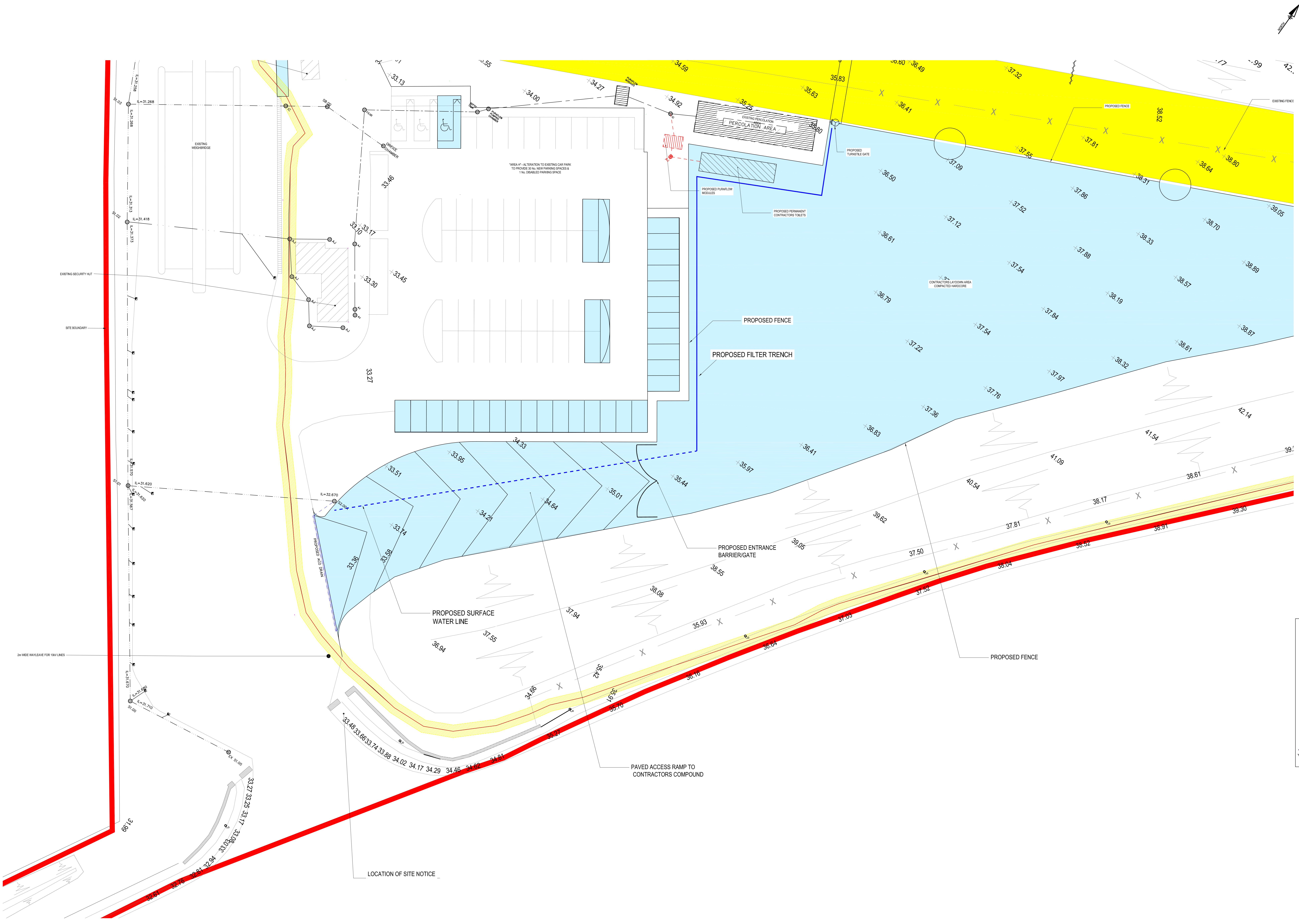
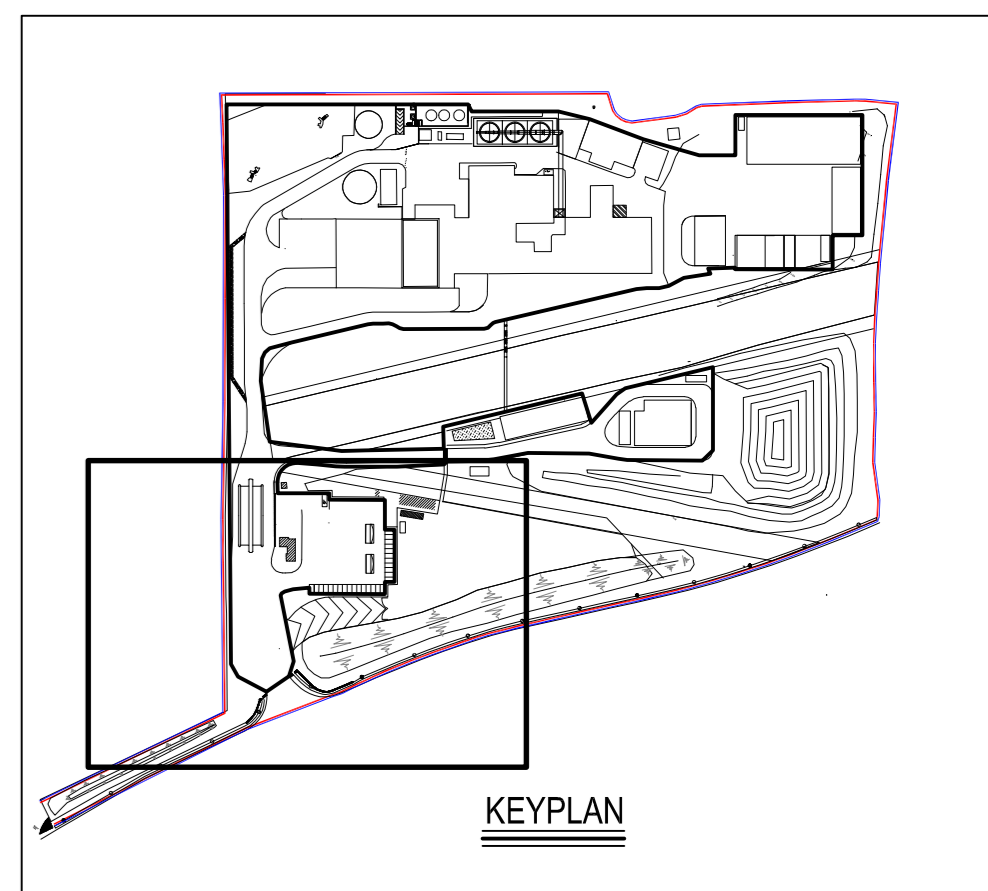
**NOTES**

- FOR STANDARD NOTES REFER TO DRAWING NO. 29043/000
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL SERVICES & M.E.A. DRAWINGS.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED. LEVELS ARE STRUCTURAL LEVELS IN METRES TO ORDNANCE DATUM. THIS DRAWING MUST NOT BE SCALED.
- GENIOTES EXTENT OF CURRENT PLANNING APPLICATION
  - GENIOTES NEW BERM AND LANDSCAPING
  - GENIOTES EXISTING WASTE/LEAVE
  - SITE BOUNDARY

- DRAINAGE LEGEND**
- EXISTING FOUL WATER LINE
  - PROPOSED FOUL WATER LINE
  - EXISTING SURFACE WATER LINE
  - PROPOSED SURFACE WATER LINE
  - PROPOSED DEAN WATER SUPPLY LINE TO HGU
  - PROPOSED DEAN WATER REJECT LINE FROM HGU
  - PROPOSED NEW GAS LINE FROM HGU
  - PROPOSED 10 KV CABLE TO HGU

- Final Notes:**
- The location of all existing services shall be confirmed prior to any excavation.
  - Proposed foul water drainage pipework shall be Wavin UPVC pipework and fittings.
  - Proposed foul water drainage designed to achieve a minimum self-cleaning velocity of 0.75m/s.
  - All manhole covers shall be ductile iron solid top covers least class D400 to BS EN 124.
  - Access Junctions shall be Wavin 160mmØ AJ with B125 ductile iron cover and shall be located in pedestrian areas only.
- Surface Water Drain Notes:**
- Proposed surface water drainage designed to achieve a minimum self-cleaning velocity of 1.0m/s.
  - Proposed drainage pipework shall be JFC Ten Complex pipework and fittings.
  - All manhole covers shall be ductile iron solid top covers least class D400 to BS EN 124.
  - The flow control device shall be a Hydroline Optimus vortex flow control VRD Technology.
  - Grate Box 4.5.5m for 30% return period storm.
  - Design head = 2.0m.
  - All drainage channels in paved areas shall be ACC drainage channel and grating least class D400 with serrated end and all buried unless noted otherwise. The contractor shall include for endosse of the head of each channel.
  - POI: 0.1% - Type 1
  - Road gullies to be located to drain a maximum area of 200m<sup>2</sup>. Grating shall be sized to achieve a minimum wet area of 7.60m<sup>2</sup>.

MANHOLE REF.	INVERT LEVEL	COVER LEVEL
SMAN001	38.620	38.750
SMAN002	38.750	38.880
SMAN003	38.880	39.010
SMAN004	39.010	39.140
SMAN005	39.140	39.270
SMAN006	39.270	39.400
SMAN007	39.400	39.530
SMAN008	39.530	39.660
SMAN009	39.660	39.790
SMAN010	39.790	39.920
SMAN011	39.920	40.050
SMAN012	40.050	40.180
SMAN013	40.180	40.310
SMAN014	40.310	40.440
SMAN015	40.440	40.570
SMAN016	40.570	40.700
SMAN017	40.700	40.830
SMAN018	40.830	40.960
SMAN019	40.960	41.090
SMAN020	41.090	41.220
SMAN021	41.220	41.350
SMAN022	41.350	41.480
SMAN023	41.480	41.610
SMAN024	41.610	41.740
SMAN025	41.740	41.870
SMAN026	41.870	42.000
SMAN027	42.000	42.130
SMAN028	42.130	42.260
SMAN029	42.260	42.390
SMAN030	42.390	42.520
SMAN031	42.520	42.650



REV.	DESCRIPTION	BY	APPR.	DATE
C	ISSUED FOR PLANNING	DS	JMD	16/03/20
B	ISSUED FOR PLANNING	AD	NK	16/03/20
A	ISSUED FOR COMMENTS	VC	JMD	22/11/19

**M.E.A. McElroy Associates**  
 ENGINEERS TO INDUSTRY  
 72 Heddon Road, Battersley, DA. Tel: 060 9000 E Mail: info@mea.ie www.mea.ie

**INDAVER**  
 INDAVER IRELAND  
 6 WINDMILL TIA  
 6A LUDLOWE  
 CO. DUBLIN 15  
 TEL: 01 451 1000  
 FAX: 01 451 1000

PROJECT: **SITE SUSTAINABILITY PROJECT**

TITLE: **PROPOSED DRAINAGE LAYOUT SHEET 5 OF 5**

DESIGNED: JMD	CHECKED: JMD	APPROV: NK
DRAWN: VC	DATE: NOV 19	SCALE: 1:200 @ A0
ORIGINAL: 29043/CD/018	REV: C	