

**Environmental  
Protection Agency**

08 MAY 2007

**patel tonra ltd.**  
environmental solutions

**For the Attention of**  
Waste Licensing Section  
Environmental Protection Agency  
EPA Headquarters  
PO Box 3000  
Johnstown Castle Estate  
Co. Wexford

Our Ref.: SD0102  
Direct Dial: 01 802 0523  
Direct Fax: 01 802 0525  
Mobile: 086 8333724  
e-mail: louise.odonnell@pateltonra.com  
Date: 3<sup>rd</sup> May 2007

Dear Sir/Madam,

**Re: SOUTH DUBLIN COUNTY COUNCIL - WASTE LICENCE APPLICATION FOR GREEN WASTE FACILITY AT ESKER LANE, LUCAN (W0228-01)**

1. In relation to the Agency's letter of enquiry to South Dublin County Council dated 13<sup>th</sup> November 2006 (signatory Ms Sonja Smith), and my previous correspondence of 16<sup>th</sup> April 2007, please find enclosed. We wish to submit the following additional details with reference to Sections E.2 (Emissions to Surface Waters) of the Waste Licence Application.

2. Please find enclosed 2 No. surface water management design drawings:

- Drawing Ref 25088-506: Interim surface water management system
- Drawing Ref 25088-505: Surface water management system including oil inceptor

**Drawing Ref 25088-506: Interim surface water management system**

3. The proposed interim surface water management system allows for the installation of a new piped drain along the southern boundary of the site and connection to existing sewer, with discharge to the adjacent pumping station.

**Drawing Ref 25088-505: Surface water management system including oil inceptor**

4. The surface water design drawing submitted to the Agency on 16<sup>th</sup> April 2007 has been amended to provide for a piped drain system, to facilitate the direction of all surface water to a silt trap/oil interceptor.
5. The redesign also allows for the installation of a holding tank, which can retain 'contaminated' surface water in the event of a spillage or incident. Shut-off valves permit the containment of this water pending removal off-site to an appropriately-licensed facility.
6. Under normal operating conditions, clean discharge from the Class I interceptor (and silt trap) will be directed to an existing surface water drain on site.
7. The point of discharge to the existing surface water drain is shown on the drawing.
8. The proposed monitoring location (to be known as SAMP1) is at the manhole immediately following discharge from the oil interceptor (this is to ensure a sample is retrieved prior to mixing of water discharged from the site and that flowing through the existing surface water drain).
9. Discharge calculations, based on maximum rainfall events, are enclosed.



JOB TITLE  
DRAWING TITLE  
DATE  
DESIGN BY

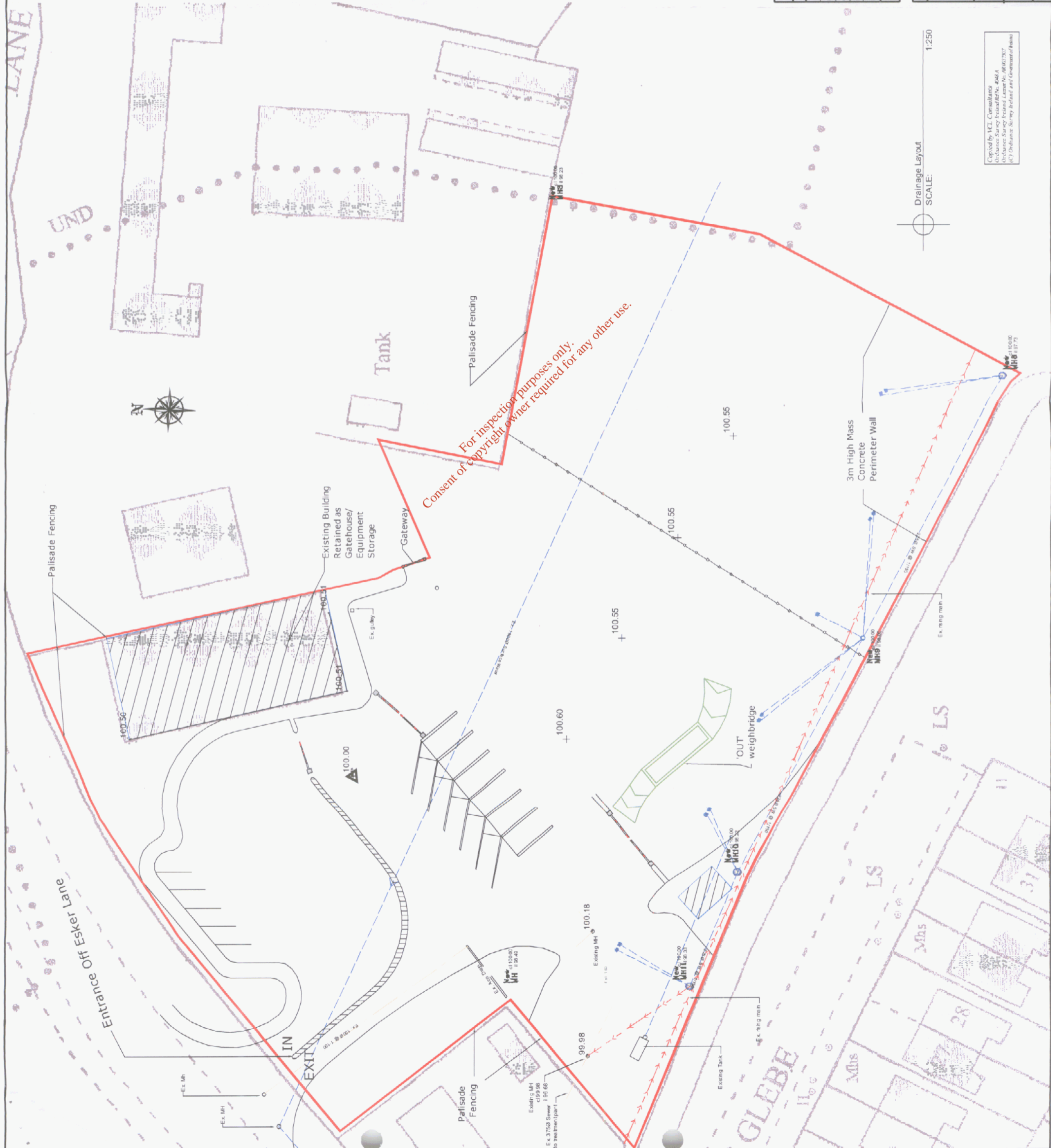
Development at Esker Lane  
DRAINAGE LAYOUT  
25/04/2007 REF: 25088  
DB

HOUSE AREA = 0 M2  
WIDTH OF ROAD = 0 M  
TIME OF ENTRY = 5 mins

RETURN PERIOD 1 YR  
INTENSITY CALCULATED USING  
BILHAMS FORMULA OR  
RAINFALL/DURATION GRAPHS

MH-MH	PIPE SIZE	DIST	GRAD	VEL	CAPAC	TIME OF FLOW	TIME OF CONC.	HOUSE NOS.	LENGTH OF ROAD	IMPER AREA	TOTAL IMPER AREA	RAINFAL INTENS.	RUNOFF
	mm	M	1 in	M/min	M3/min	mins	mins		M	HECTS	HECTS	mm/HR	M3/min
S11-S10	225	16	150	63.09	2.51	0.25	5.25	0	0	0.06	0.06	52.31	0.51
S10-S9	225	35	150	63.09	2.51	0.55	5.81	0	0	0.05	0.12	49.42	0.92
S9-S8	225	39	150	63.09	2.51	0.62	6.43	0	0	0.12	0.24	46.64	1.79
S8-S2	225	37	150	63.09	2.51	0.59	7.01	0	0	0.04	0.28	44.35	1.99
S7-S6	225	21	150	63.09	2.51	0.33	5.33	0	0	0.07	0.07	51.87	0.58
S6-S5	225	16	150	63.09	2.51	0.25	5.59	0	0	0.04	0.11	50.52	0.86
S5-S4	225	26	150	63.09	2.51	0.41	6.00	0	0	0.04	0.15	48.52	1.16
S4-S3	225	38	150	63.09	2.51	0.60	6.60	0	0	0.09	0.23	45.93	1.72
S3-S2	225	26	150	63.09	2.51	0.41	7.01	0	0	0.04	0.28	44.35	1.97
S2-S1	300	15	150	76.43	5.40	0.20	7.21	0	0	0.02	0.57	43.64	4.01

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REVISIONS	BY	DATE
A/		
B/		
C/		
D/		
E/		

DRAWN	LC	CHECKED		SURVEYED		DATE	03-05-07
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Drainage Layout  
 SCALE: 1:250

Drawing Status: PLANNING

**VCL Consultants**  
 12 Ashdale, Wheaton Hill, Drogheda (D41) 963968

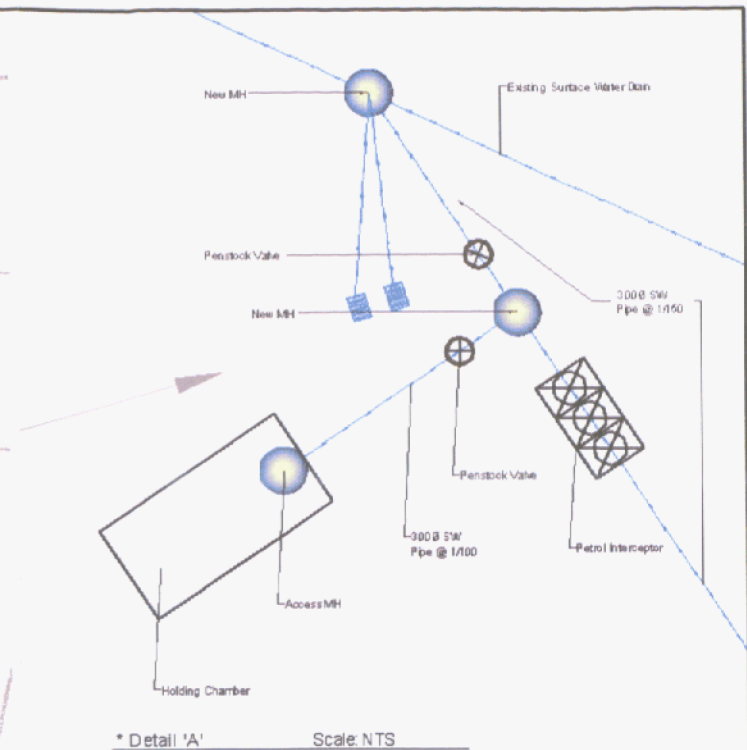
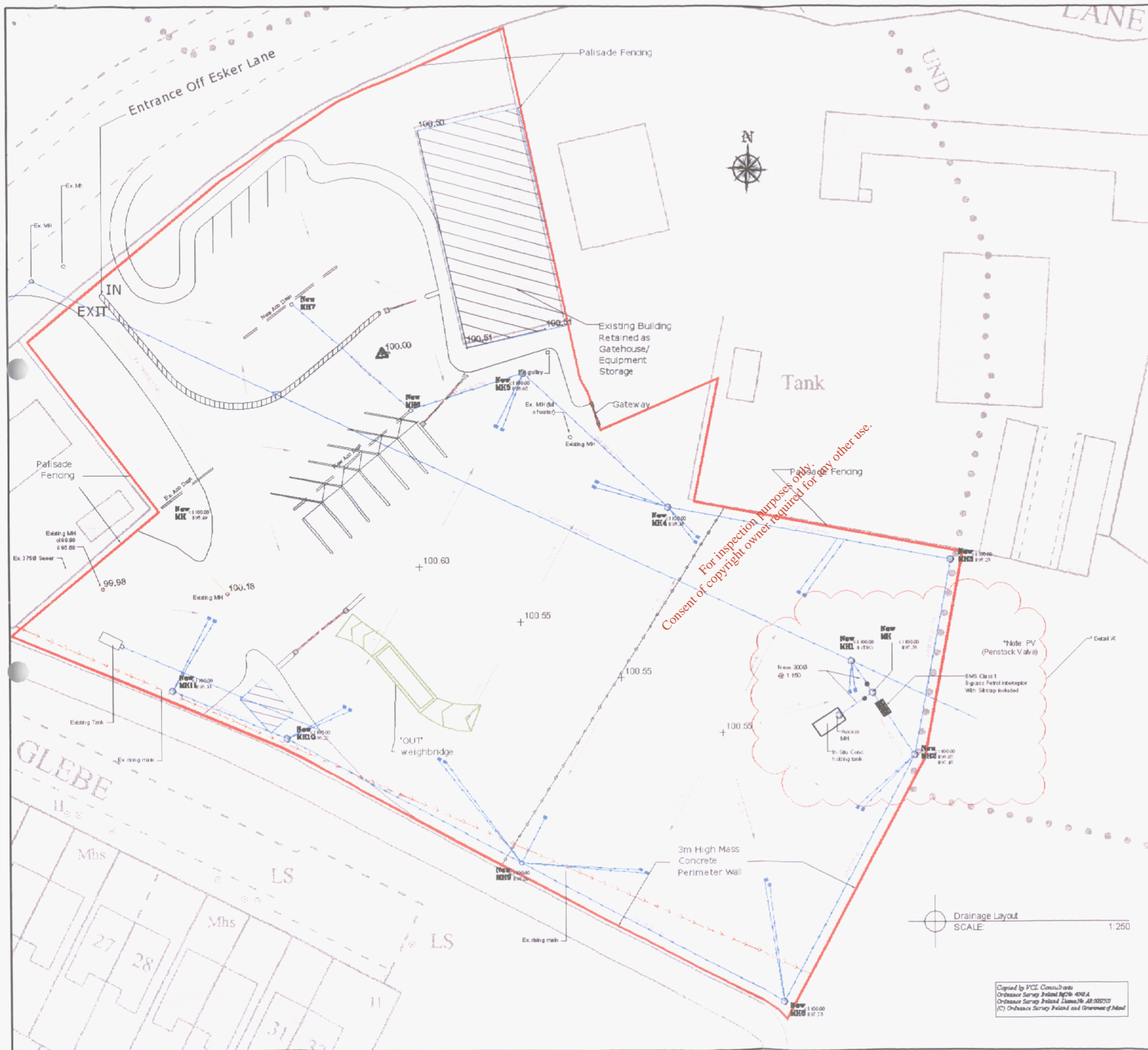
Client: Patel Tonra Ltd.  
 Job Title: Esker Lane C.A. Site  
 SCALES: 1/250  
 DRAWING No: 25088-506

DRAWING TITLE: ALTERNATIVE DRAINAGE

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OFFICE	Civil Office		
REVISIONS		BY	DATE
A/	Minor Changes, Land Drain Added	DB	09-03-07
B/	Holding Tank, 2N new MHE's, Impermeable Layer added to trench	DB	23-04-07
C/	Re-Design of Surface Water System	DB	25-04-07
D/			
E/			
DRAWN	DB	CHECKED	SURVEYED DATE 23-01-07

Drawing Status: PLANNING

**VCL Consultants**  
12 Ashdale, Wheaton Hill, Drogheda (D41) 9839958

Client: Patel Tonra Ltd. DRAWING TITLE: DRAINAGE\_LAYOUT

Job Title: Esker Lane C.A Site

Scale: 1/250 DRAWING No.: 25083-505

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