



Block 10-3, Blanchardstown Corporate Park, Dublin 15  
PH +353 (0) 1 803 0401 FAX +353 (0) 1 803 0410 EMAIL administration@tesltd.ie WEBSITE www.tesltd.ie  
Northpoint House, Northpoint Business Park, New Mallow Road, Cork  
PH +353 (0) 21 430 8624 FAX +353 (0) 21 430 8625 EMAIL tescork@tesltd.ie WEBSITE www.tesltd.ie

Dr. Thomas McLoughlin,  
Inspector,  
Office of Licensing & Guidance,  
Environmental Protection Agency,  
Headquarters, PO Box 3000,  
Johnstown Castle Estate,  
County Wexford.

**RE: Reply to Notice in accordance with Article 14(2)(b)(ii) of the Waste Management (Licensing) Regulations for Application 221-1**

Dear Dr. McLoughlin

On behalf of our client, Dublin City Council, and with reference to your letter dated the 3<sup>rd</sup> of October 2005, in relation to Article 14(2)(b)(ii) request for information pertaining to the Waste Licence Application by Dublin City Council to develop a Civic Amenity Site at a site in Labre Park, Ballyfermot, Dublin 20 (221-1), please find below the information as requested.

- You indicate in your application that materials have been infilled at the proposed Civic Amenity facility at Labre Park and I note that you have furnished a site specific risk assessment for the infilled material. Please give an estimate of the amount of material that has been infilled at the proposed site.*

The lands within the Labre Park site, and in the wider naturally low lying Ballyfermot area, have been historically infilled to raise topographic levels and thus improve underfoot ground conditions.

A detailed site investigation programme was undertaken within the Labre Park site in March/April 2005. As part of the site investigation programme 30 No. trial pits were excavated cross the site to determine the nature and extent (both lateral and vertical) of the materials infilled above natural ground. The findings of the site investigation programme indicate that the thickness of fill material varies from 2.5m to 3m across the site.

The material infilled within the site predominantly comprises Clay dominant fill, with construction and demolition debris embedded. Below the clay dominant fill, old municipal waste fill was encountered.

Based on the area of the site, which comprises approximately 38,000m<sup>2</sup>, the volume of fill material existing within the site is estimated within the range of 95,000m<sup>3</sup> (2.5m thick fill) to 114,000m<sup>3</sup> (3m thick fill).

**DIRECTORS** SE Finlay (Executive Chairman) BSc, PGeo, CEng, FIMM, FIEI • DM Grehan (Operations) BE, MEngSc, CEng, MIEI • P Miskella (Commercial) BE, CEng, MIEI

A Brinkmann MSc (Dutch) • BJ Downes BE, MProjMgmt, CEng, MIEI • MF Garrick BE, MEngSc, MBA, CEng, FIEI, MCIWEM, MCons EI • RF Tobin BE, MBA, CEng, FIEI

Eurlng LE Waldron BE, MBA, CEng, FIEI, MCIWEM, MCons EI • COMPANY SECRETARY EJ Harrigan BComm, HDipEd, MBA, ACMA, IACT • SENIOR CONSULTANT A Butler BE, MSc, CEng, FIEI

TES (Tobin Environmental Services Ltd) is a subsidiary of TOBIN Consulting Engineers

Registered in Ireland No 257315 Vat No 8257315G

EPA Export 25-07-2013:18:01:46

- *The Agency wish to inform you that this infilled material that is deposited at the site is a development under Waste management legislation. Consequently such a development must be **applied for** in your application under Class 4 of the Fourth Schedule of the Waste Management Act 1996 to 2003.*

The following is an amendment to the last paragraph of Attachment B7- Type of Waste, Tonnage and Fee:

**Fourth Schedule, Class 4- “Recycling or reclamation of other inorganic materials.”**

Designated containers will be provided for the collection of inorganic materials, such as construction and demolition waste derived from household renovations, conversions, etc.

A detailed site investigation programme was undertaken within the Labre Park site in March/April 2005. As part of the site investigation programme 30 No. trial pits were excavated cross the site to determine the nature and extent (both lateral and vertical) of the materials infilled above natural ground. The findings of the site investigation programme indicate that the thickness of the inert fill material varies from 2.5m to 3m across the site, giving a volume of between 95,000m<sup>3</sup> (2.5m thick fill) to 114,000m<sup>3</sup> (3m thick fill). This material will be left in-situ and will remain undisturbed where possible.

Please find the revised Attachment B7 in Appendix 2

- *Please provide a map showing the location of the nearest receptor(s) to the proposed facility.*

Please refer to Drawing No. 1260/01/301 in Appendix 3, which shows the location of the nearest receptors.

- *It is stated in the application that the proposed site is owned in the majority by Dublin City Council, while a portion of the south west corner is in private ownership. Please provide clarification if and when DCC propose to purchase this portion of the site.*

The purchase of the lands in the southwest corner of the proposed Civic Amenity Site are part of a land swap agreement between Dublin City Council and Thorntons Waste Disposal Ltd. Dublin city Council gave formal agreement to the proposed land swap on the 4<sup>th</sup> of July 2005. Agreement has been reached between the two parties on the details of the transaction and those details are currently being finalised by the Law Department of Dublin City Council. Please refer to Drawing No. 1260/01/301, which shows the area of land being acquired from Thorntons Waste Disposal Ltd.

Please find attached a response to request for further information on Environmental Impact Statement (EIS) for proposed Civic Amenity Facility at Labre Park, Ballyfermot, Dublin 10, as submitted to An Bord Pleanála in April 2005, for your further information.

Please also find attached a disc containing photographs of a clean-up operation that was carried out at Labre Park in August 2005 by Dublin City Council. The Council removed a total of 2,810 tonnes of waste material, at a cost of €574,231.

Should you have any questions or require any further clarification with respect to the above please do not hesitate to contact either Tom Loftus at Dublin City Council or myself.

Yours sincerely,



Dermot Burke B.E., M.Eng.Sc., M.I.E.I.  
TES Consulting Engineers

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**APPENDIX 1- RESPONSE TO FURTHER INFORMATION ON  
ENVIRONMENTAL IMPACT STATEMENT (EIS) FOR PROPOSED CIVIC  
AMENITY FACILITY AT LABRE PARK, BALLYFERMOT, DUBLIN 10, AS  
SUBMITTED TO AN BORD PLEANÁLA IN APRIL 2005**

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**Responses to request for further information on  
Environmental Impact Statement (EIS) for  
proposed Civic Amenity Facility at Labre Park,  
Ballyfermot, Dublin 10**

April 2005

Dublin City Council  
Engineering Dept.,  
Floor 4,  
Block 1,  
Civic Offices,  
Fishamble Street,  
Dublin 8.

DC0127

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- Appendix 7: Findings on Site Investigation

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## Introduction

The Waste Management Services section of Dublin City Council lodged an Environmental Impact Statement (EIS) for a proposed Civic Amenity (CA) Facility at Labre Park, Ballyfermot, Dublin 10. The application was submitted in accordance with the European Communities (Environmental Impact Assessment) Regulations 1989 to 2001 and the Planning and Development Act 2000.

A request for further information was made by An Bord Pleanála as follows:

1. Drawings indicating the following:
  - (a) Indicative boundary wall construction, including details of height, use(if any) of railings, proposed surface treatment.
  - (b) Hydrocarbon interceptors, referred to in text, but not included in Drainage Drawings.
  - (c) Surface water attenuation tanks, referred to in text but not in Drainage Drawings.
  - (d) Drainage details of surface water outfall.
  - (e) Details of entrance with respect to proposed bridge indicated on drawing as being below the entrance.
  - (f) Details of access road with reference to connection (if any) to Labre Park. Details of impact on building at the west end of Labre Park.
2. In relation to Section 12 of the EIS (Soils and Geology), submit a report on the evaluation of the trial pits, with particular reference to the evaluation of domestic wastes found in the trial pits. Report should contain any recommendations for action/ treatment of such waste.

A response to each of the items above is provided below and in the attached drawings.

## 1. Drawing Updates

### (a) Boundary Wall Construction

Drawing 24014-013 (Appendix 1) details the boundary wall/fence proposed along the southern boundary of the facility, adjacent to the canal bank. The design attempts to provide a boundary which is aesthetically pleasing while also secure but minimises screening of the area outside the boundary, where there is potential for anti-social behaviour to occur.

Drawing 24014-015 (Appendix 2) details the boundary fence proposed along the remaining site boundaries. This design has no wall at the base of the fencing to allow for the free flow of water through the site in the event of severe flooding. On the northern boundary of the site access will be provided to the bank of the Galback Stream via gates at the locations indicated on Drawings 24014-003B.

### (b) Hydrocarbon Interceptors

Drawing 24014-003B (Appendix 3) has been amended to include the hydrocarbon interceptor referred to in the text of the EIS.

The interceptor used will be manufactured from a robust material such as glass reinforced polystyrene and will be rot-proof. The capacity of the interceptor is 6,600 litres and is suitable for this development, as the site has been classed as low risk - there will be no fuel delivery tanks or fuel storage tanks on the site. The site will be a low risk area where there is a risk of frequent oil contamination of surface water runoff, but in low concentrations and small quantities.

The interceptor will have the capacity to handle low-level surface water contamination from the site. It will be encased in a concrete surround, vented to the atmosphere and will have manholes for easy access for maintenance and servicing.

The size of the interceptor is based on Manufacturers Guidelines for the nature and size of the area to be drained. For a site of 11,111 m<sup>2</sup> or under, the following specifications apply.

Area Drained	11,111 m <sup>2</sup>
Net Capacity	6600 litres
Length	3929 mm
Diameter	1500 mm
Overall Height	2750 mm
Maximum Pipe	450 mm

As the site is 11052 m<sup>2</sup> in area, this size of interceptor is suitable for the site.

### (c) Surface water attenuation tanks

Drawing 24014-003B (Appendix 3) has been amended to include a storm water attenuation tank referred to in the text of the EIS.



The surface water runoff from the site will be attenuated in an underground tank on the site. The tank will be sized to store 264 m<sup>3</sup> runoff, which is the runoff volume calculated for the site from a 1 in 30 year event.

In the case of a 1 in 100 year storm event, flooding of the vehicle stopping lanes will occur in order to accommodate the additional runoff, and prevent flooding of adjacent sites. This is in accordance with SUDS Guidelines.

The surface water runoff from the site will be collected and stored in a sealed tank during heavy rainfall and then released through a flow control device which minimises the risk of flooding. The flow control device will control flow to a rate of 5 l/sec/hectare.

The attenuation tank will be manufactured from long-life polypropylene, fusion welded into a rigid, three dimensional hollow matrix. The actual dimensions of the tank will be 40 m (length) x 10 m (wide) x 0.88 m (depth). The capacity of the tank will be 352 m<sup>3</sup>, allowing storage of surface water runoff from a 1 in 30 year storm event, which is calculated to be 328.2 m<sup>3</sup>. The calculations for the sizing of the storage are shown below.

<b>Stormwater Runoff</b>		<b>Units</b>
Allowable Runoff*	5	l/sec/hect
Site Area	1.1052	Hectare
Maximum Allowable Runoff Rate	5.526	l/sec
Maximum Allowable Runoff over 720 min.	238723.2	litres
<b>1 in 30 Year Event</b>		
Storm Duration	720	mins.
Rainfall Amount**	51.3	mm
Total Runoff Volume.	566.968	m <sup>3</sup>
	566967.6	litres
<b>Attenuation required at Site (30 yr return period)</b>		
	328244.4	litres

\* SUDS Figures \*\* Met Eireann Data

In the event of a 1 in 100 year storm event, an additional 139 m<sup>3</sup> of runoff will have to be retained on site in order to maintain the maximum discharge rate of 5.526 l/sec from the site. This will be achieved by flooding of the stopping lanes. This area is 1285 m<sup>2</sup>. In order to retain 139 m<sup>3</sup> of runoff, the stopping lanes will be flooded to a depth of 0.108 m (See Calculations below).

<b>1 in 100 Year Event</b>		<b>Units</b>
Storm Duration	720	mins.
Rainfall Amount	64.8	mm
Total Runoff Volume	716.2	m <sup>3</sup>
Minus 1 in 30 Year Event Runoff	567.0	m <sup>3</sup>
Additional Runoff from 1 in 100 Year Event	<b>149.2</b>	m <sup>3</sup>
<b>Stopping Lanes Area</b>		
Stopping Lanes Area	1285.0	m <sup>2</sup>
Flood Depth of Stopping Lanes	<b>0.116</b>	m

**(d) Drainage details of surface water outfall.**

Drawing 24014-014 (Appendix 4) details the proposed headwall for the surface water outfall to the adjacent stream.

**(e) Details of bridge at entrance**

Drawing 24014-012 (Appendix 5) details the proposed bridge. It is proposed that the bridge will be constructed utilising inverted pre-stressed T- beams in a solid slab and incorporating a stone clad reinforced concrete parapet. The bridge selected allows for the full traffic loading and maintains the vertical and horizontal alignment of the access road. The resulting width under the bridge allows for future maintenance works to the stream without a constriction at the bridge.

**(f) Details of access road**

As per Section 5 of the EIS access to the site will be gained via Kylemore Park West. There will be no access from Labre Park to the facility.

At present there is a Community Centre located at the western end of Labre Park which is accessible on foot by the residents of Labre Park. It should be noted that there is a separate proposal by Dublin City Council, to construct new housing units and a new Community Centre on the south side of Labre Park. The pre Part VIII process for this development has commenced. A drawing of this development is attached (Appendix 6)

When this development is realised and the new Community Centre has been constructed the existing Community Centre will no longer be used therefore access will no longer be required.

Prior to the completion of the new Community Centre and during construction of the Civic Amenity Facility, pedestrian access to the existing Community Centre will be maintained by the provision of footpaths and a pedestrian crossing from Labre Park. During the construction works the crossing will be directed.

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## 2. Site Investigations

In Section 12 of the EIS and in a further detailed report (Findings of Site Investigation at Labre Park (Appendix 7)) it was recommended that a programme of soil sampling and analysis be undertaken at the site prior to development commencing. TES Consulting Engineers have been now been commissioned by Dublin City Council to carry out site investigations at Labre Park, Ballyfermot, Dublin 10

The site investigations, which have commenced, will take the form of the installation of a number of boreholes to monitor the quality of the groundwater and the undertaking of a network of trial pits across the site. The trial pitting exercise will establish the nature of the fill on-site and the nature of the subsoil environment

It is proposed to dig a network of approximately 30No. trial pits to maximum achievable depth (approximately 4m). In certain locations the trial pits will be retrofitted with slotted 50mm ducting, to act as short-term monitoring points. Soil samples will be retrieved during the investigation and these samples will be analysed, by ALcontrol Laboratories, for a wide range of chemical parameters to determine the extent, if any, of ground contamination.

Glover Site Investigations Ltd. have installed 3No. boreholes at the site. Groundwater samples will be obtained and analysed to determine if the infilled material has resulted in contamination of the groundwater environment.

The soil samples will be tested for a number of contaminants, namely:

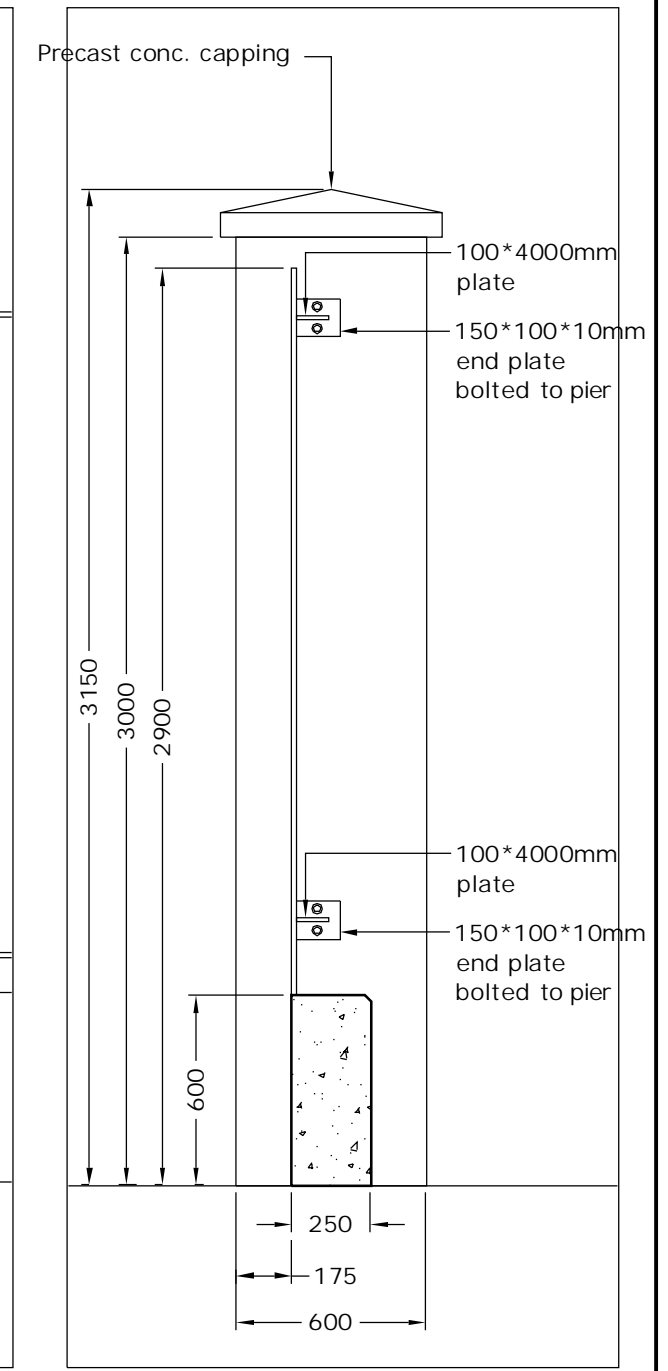
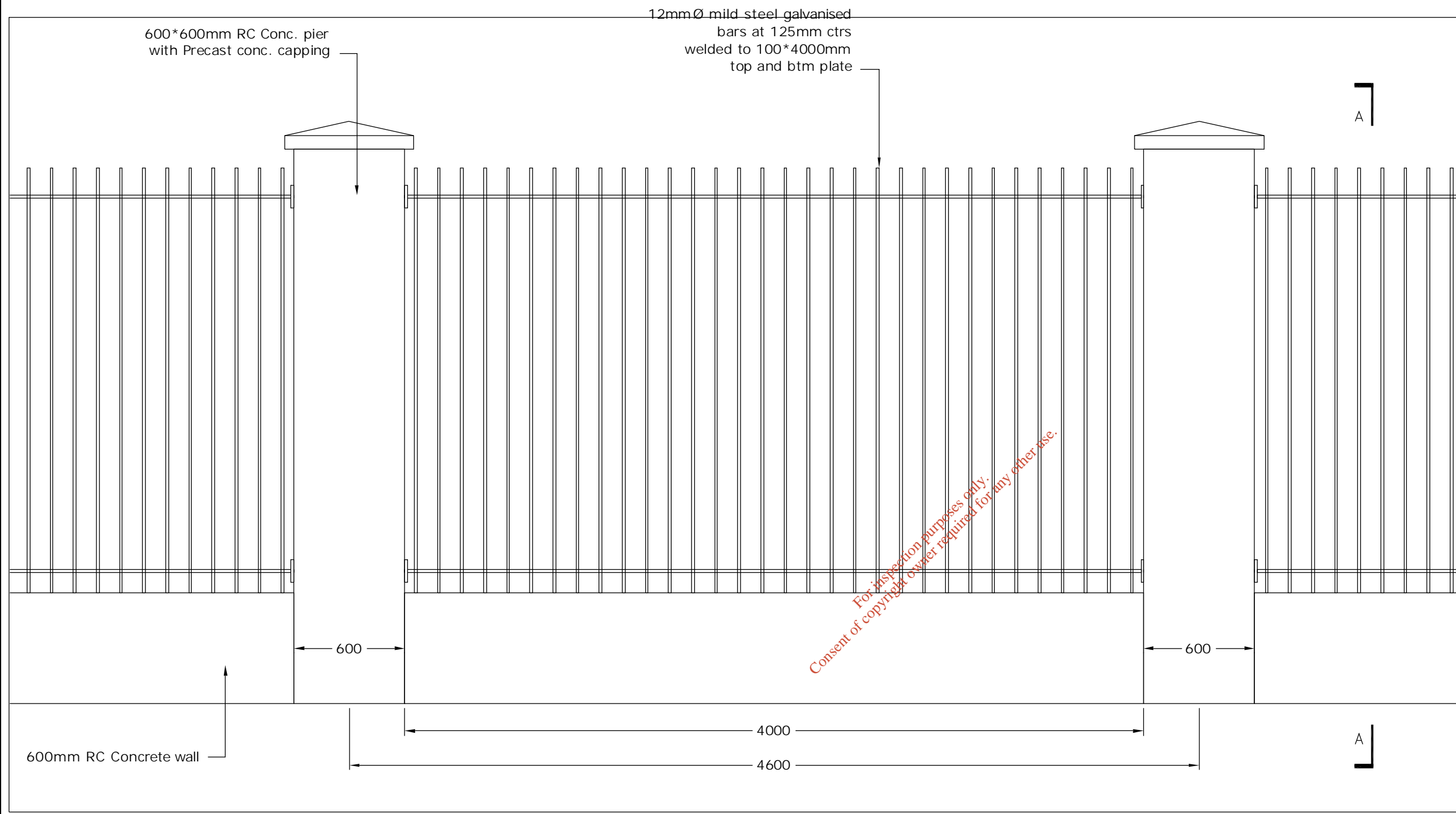
- Gasoline Range Organics (GRO),
- Diesel Range Organics (DRO),
- Mineral Oils; and
- Heavy Metals (Arsenic, Cadmium, Chromium, Copper, Nickel, Zinc, Lead, Mercury, Selenium and Boron).

Up to 10No. of the soil samples will also be tested Volatile Organic Carbons (VOC), SVOC and Phenols. The 3No. groundwater samples from the boreholes will be analysed for all of the EPA Groundwater Compliance parameters, as well as for GRO, DRO, Mineral Oils, Heavy Metals, VOC and SVOC.

When the results of the laboratory testing are received, TES will issue a factual site investigation report that will include an evaluation of the extent of materials on the site and the degree, if any, of soil or groundwater contamination. The report will also make recommendations for possible removal of waste from the site and action/treatment of any contamination. This report is being prepared as part of the Waste License Application to the EPA for the proposed Civic Amenity Site at Labre Park, Dublin 10.

## Appendix 1: Drawing 24014-013

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Proposed Elevation of Boundary Wall Scale 1:25  
(to be used for full perimeter of C.A. site)

Proposed Section Scale 1:25

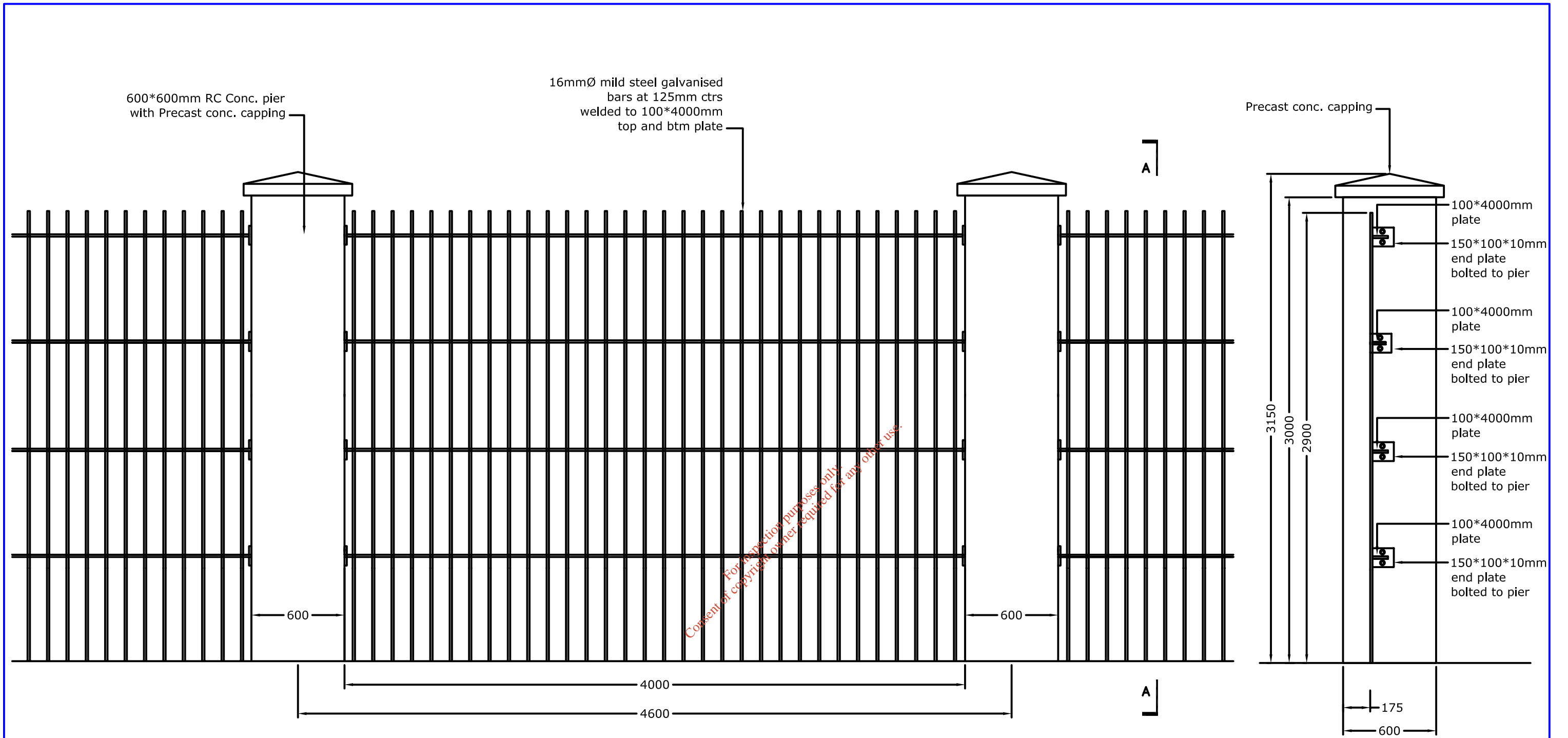
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OFFICE <b>Structural Office</b>			
REVISIONS	BY	DATE	
A/			
B/			
C/			
D/			
E/			
DRAWN <b>DR</b>	CHECKED	SURVEYED	DATE <b>29-03-05</b>

Drawing Status <b>Planning</b>		 <b>VCL Consultants</b> 12 Ashdale, Wheaton Hall, Drogheda (041) 9839958
Client <b>Dublin City Council</b>	DRAWING TITLE <b>Proposed Boundary wall</b>	
Job Title <b>C.A site at Labre Pk, Dublin 10,</b>		
SCALES <b>1:25</b>	DRAWING No. <b>24014-013</b>	

## Appendix 2: Drawing 24014-015

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Proposed Elevation of Boundary Wall Scale 1:25  
(Between points A-B)

Proposed Section Scale 1:25

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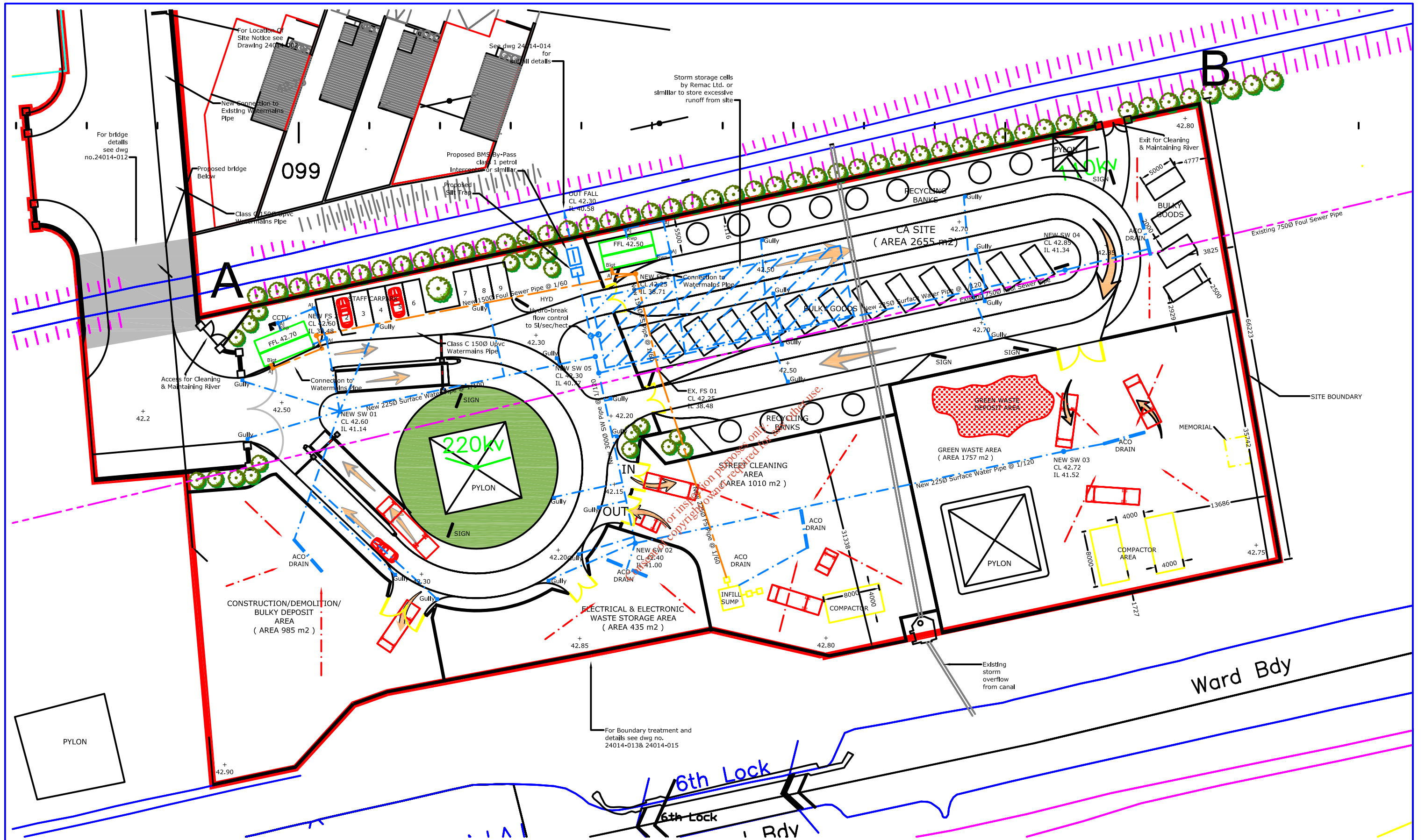
OFFICE <b>Structural Office</b>			
REVISIONS	BY	DATE	
A/			
B/			
C/			
D/			
E/			
DRAWN <b>DR</b>	CHECKED	SURVEYED	DATE <b>29-03-05</b>

Drawing Status <b>Planning</b>	
<b>VCL Consultants</b> <small>18 Ashdale, Wheaton Hill, Drogheda (041) 8639953</small>	
Client <b>Dublin City Council</b>	DRAWING TITLE <b>Proposed Boundary wall</b>
Job Title <b>C.A site at Labre Pk. Dublin 10.</b>	
SCALE <b>1:25</b>	DRAWING No. <b>24014-015</b>

## Appendix 3: Drawing 24014-003B

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PROPOSED SITE LAYOUT PLAN  
 SCALE 1:250  
 SITE AREA : 11053 m2  
 OS LICENCE : AR0037504  
 OS REF : 3262-18 & 23

**LEGEND**

EXISTING FOUL SEWER PIPE	
EXISTING FOUL SEWER MANHOLE	
PROPOSED FOUL SEWER PIPE	
PROPOSED FOUL SEWER MANHOLE	
PROPOSED SURFACE WATER PIPE	
PROPOSED SURFACE WATER MANHOLE	
PROPOSED WATERMAINS PIPE	
EXISTING WATERMAINS PIPE	
HYDRANT	
GULLIES	
DIRECTION OF FLOW	

OFFICE	Civil				
REVISIONS					
A/	Site layout and Entrance Revised	BY	EPF	DATE	14/12/04
B/	Petrol interceptor and silt trap added	BY	DR	DATE	24/3/05
C/					
D/					
E/					
DRAWN	AR	CHECKED		SURVEYED	
				DATE	05/05/2004

Drawing Status **Planning**

**VCL Consultants**  
 12 Ashdale, Wheaton Hill, Drogheda (041) 8639953

Client **DUBLIN CITY COUNCIL**

Job Title **C . A SITE LABRE PARK**

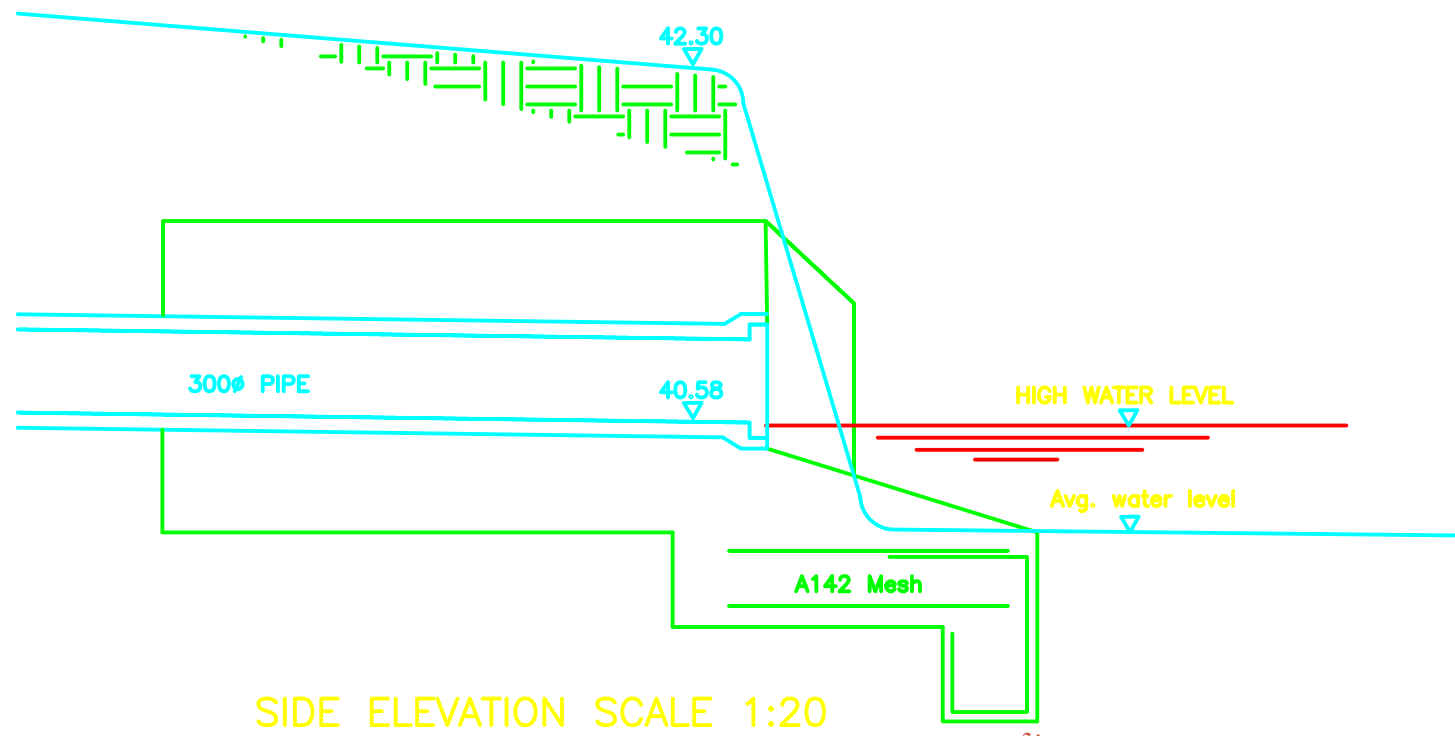
SCALES **1:250**

DRAWING No. **24014-003B**

DRAWING TITLE **PROPOSED DRAINAGE PLAN**

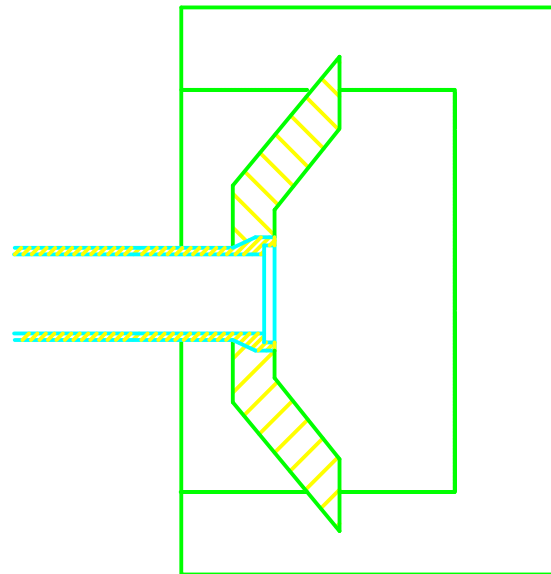
## Appendix 4: Drawing 24014-014

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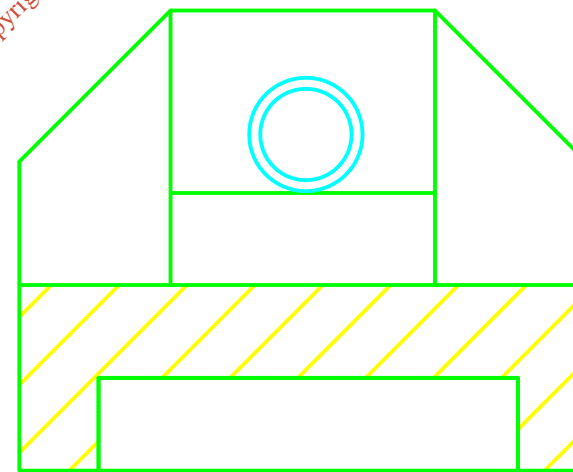
SIDE ELEVATION SCALE 1:20

250 Thick Apron of Grade  
30N20 conc.  
Reinforced with A142 mesh



PLAN SCALE 1:20

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FRONT ELEVATION SCALE 1:20

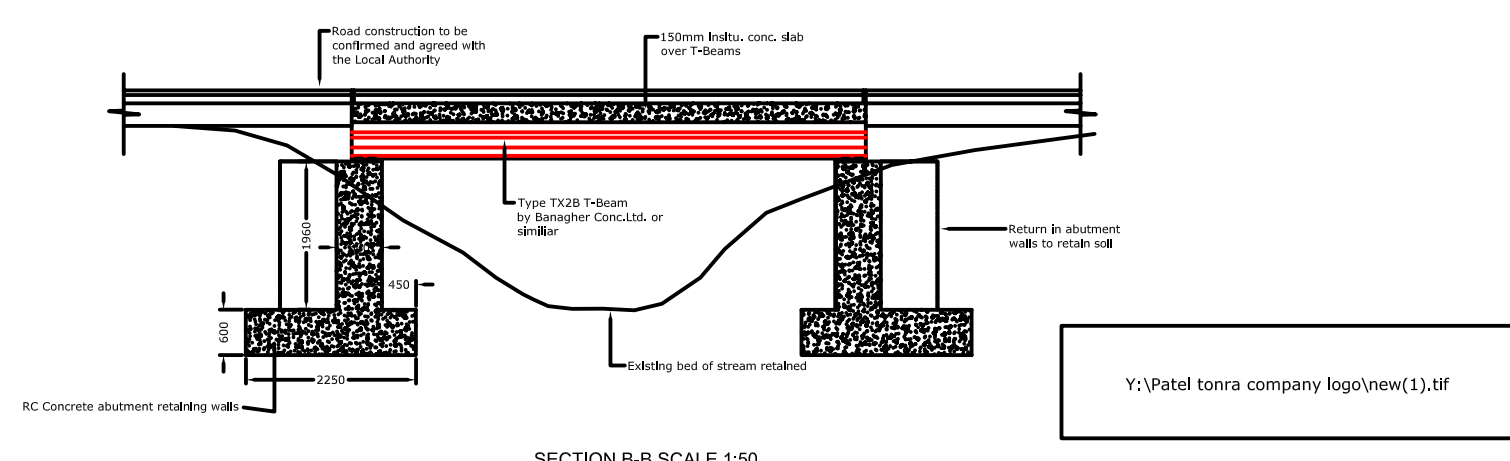
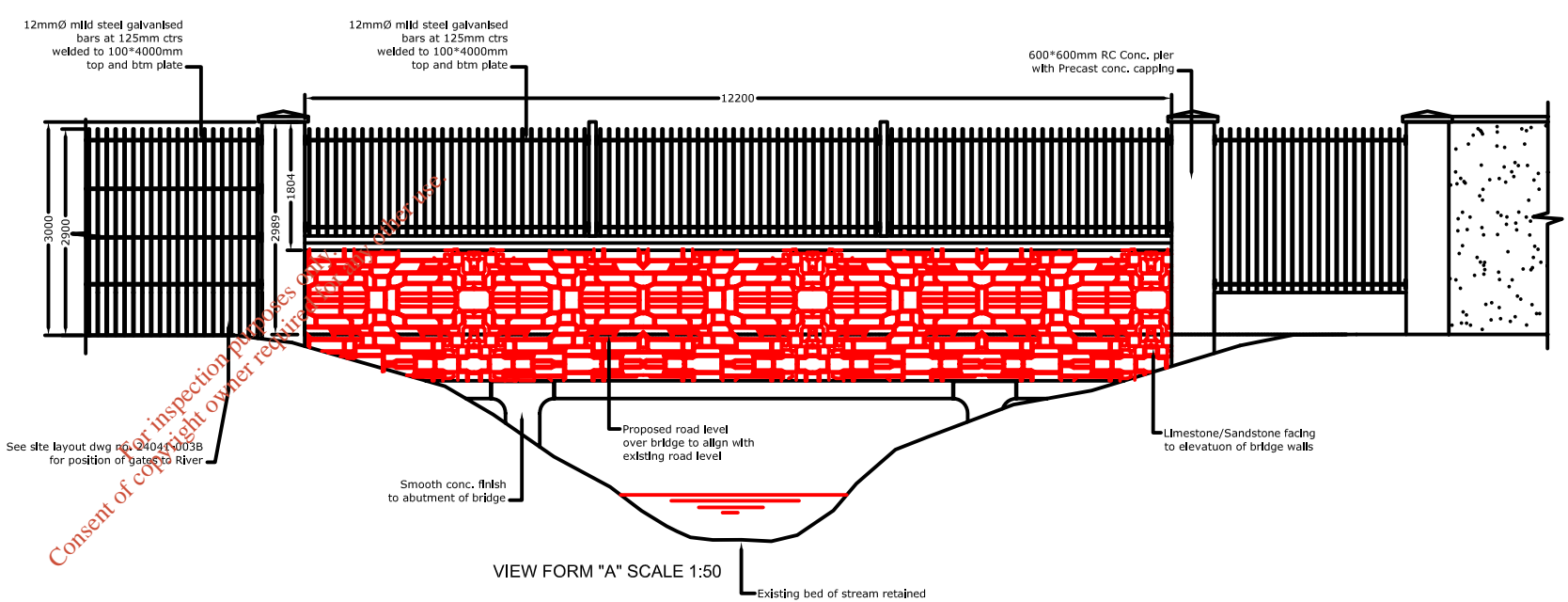
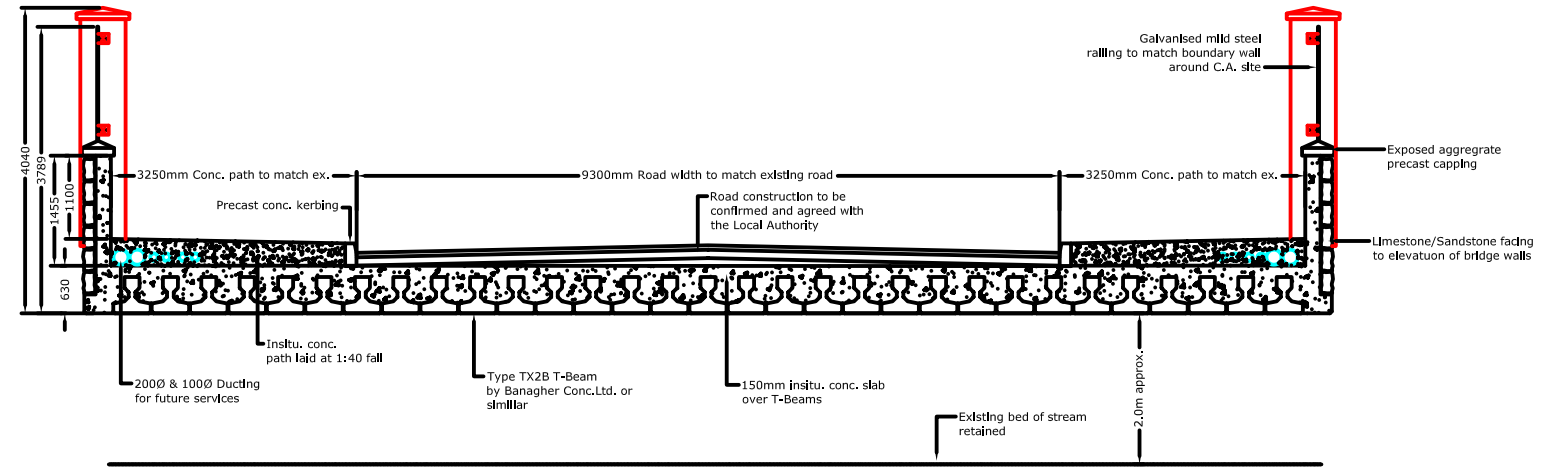
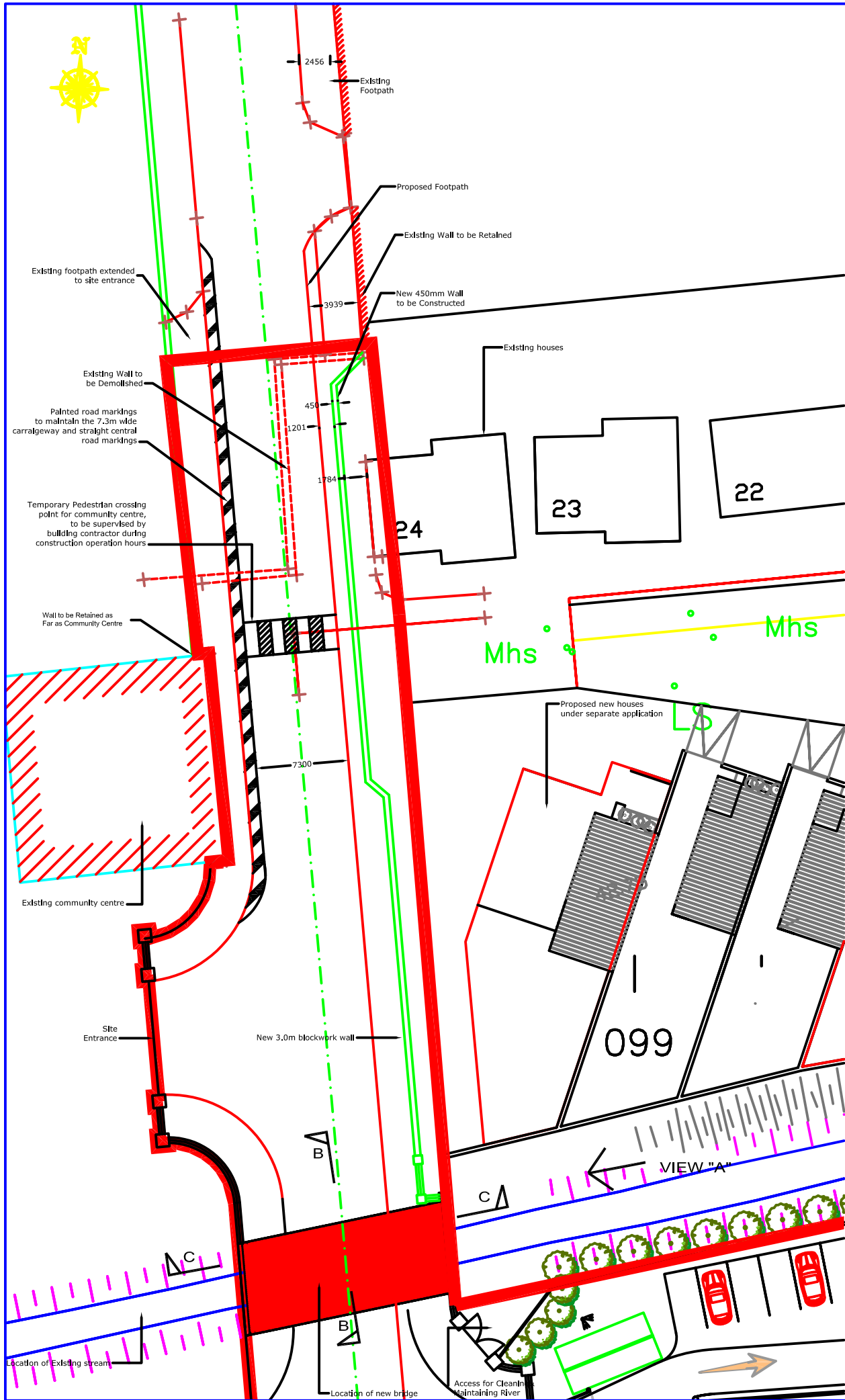
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OFFICE				Structural Office	
REVISIONS				BY	DATE
A/					
B/					
C/					
D/					
E/					
DRAWN	DR	CHECKED	SURVEYED	DATE	29-03-05

Drawing Status		Planning	
<b>VCL Consultants</b> <small>18 Ashdale, Wheaton Hill, Drogheda (041) 8639953</small>			
Client		Dublin City Council	
Job Title		C.A site at Labre Pk. Dublin 10.	
SCALES		1:20	
DRAWING No.		24014-014	
DRAWING TITLE		Proposed Headwall details	

## Appendix 5: Drawing 24014-012

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OFFICE		Civil	
REVISIONS	BY	DATE	
A/	Survey added to entrance	DR	05/09/05
B/	Alterations after meeting with council	DR	06/09/05
C/	Text added	DR	09/09/05
D/			
E/			
DRAWN	DR	CHECKED	SURVEYED
		DATE 29-3-05	

Drawing Status **Planning**

**VCL Consultants**  
12 Ashdale, Wheaton Hill, Drogheda (041) 8639953

Client **DUBLIN CITY COUNCIL** DRAWING TITLE **PROPOSED BRIDGE DETAILS**

Job Title **C . A SITE LABRE PARK**

SCALES **1:200,1:50** DRAWING No. **24014-012C**

Y:\Patel tonra company logo\new(1).tif

## Appendix 6: Drawing of New Housing Development and Community Centre

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KYLEMORE PARK SOUTH

KYLEMORE PARK WEST

NORTH

Caretaker Office to be relocated to community centre

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existing community centre

existing well to be demolished

existing FW 225 drain

IL = 38.655  
1.5m dia. SV Pipe

PUBLIC OPEN SPACE  
MEMORIAL GARDEN

Grand Canal

Water level = 42.128m

Underground Tunnel

Manhole on Concrete roof

6th Lock

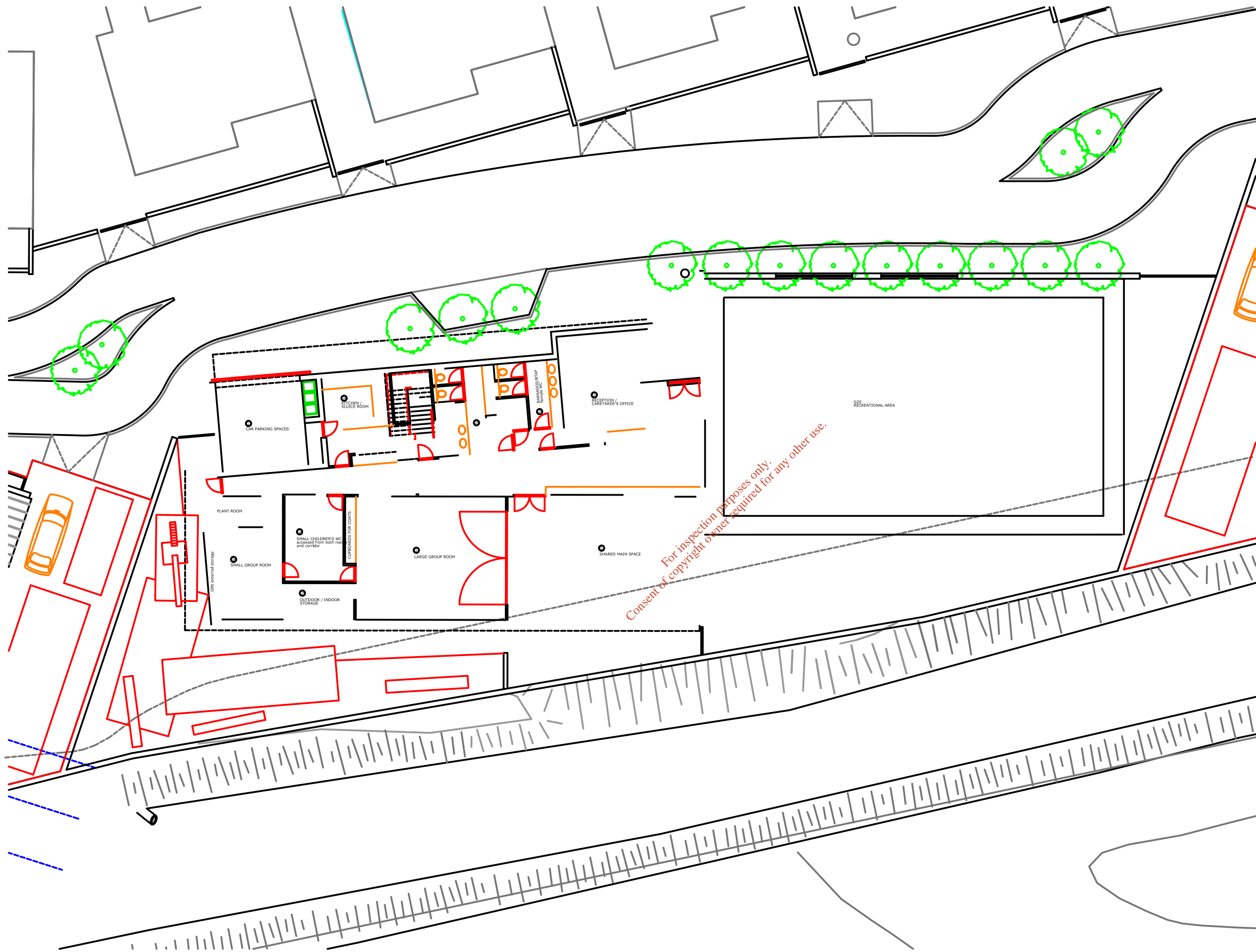
**GARDINER ARCHITECTS**  
Bloom House, 15 Mountjoy Sq., Dublin 1. Tel: (01) 8772200 Fax: (01) 8772630 Email: info@gardinerarchitects.com

Revision	Date	By	Check'd	Description	Revision	Date	By	Check'd	Description
A									
B	19/10/04	SV	DK	revised locations of community centre					
C									
D									
E									



Project HOUSING DEVELOPMENT AT LABRE PARK  
Client DUBLIN CITY COUNCIL  
Drawing PROPOSED SITE PLAN

Scale 1:1500/ A1  
Date 14 SEPTEMBER 2004  
Dwg. No. GAL03-110-102  
Series PRE-PART 8  
Drawn HANNAH VERNER  
Checked EMMETT KELLY  
18/09/04



- NOTES**
- FRONTAGE:**
- 1 SECURITY SHUTTER 'vini-screen' roller shutter
  - 2 PRIMARY SIGNAGE (Labre Park Community Centre), individually cut and mounted directly to endered wall.
  - 3 STAINLESS STEEL BOLLARDS 800mm high/100mm diameter concrete pavers to be selected
- W A L L S:**
- 1 RENDER to be painted white
  - 2 CLADDING to front/side elevations reconstructed stone cladding to selected colour
  - 3 reconstructed stone bench
- ROOFING**
- 1 ROOF proprietary metal deck roofing to be selected
  - 2 CANOPY galvanized steel framed overhang to entrance
- W I N D O W S / D O O R S**
- 1 powder coated aluminum windows/cills/entrance doors gunmetal grey/clear glazing
  - 2 obscured glazing
  - 3 gate to parking entrance/side gates painted MS frame/vertical rods/flat MS sheet
  - 4 timber screen panels with windows set in to open/hinged from top

- ROOM AREAS**
- 1 powder coated aluminum windows/cills/entrance doors gunmetal grey/clear glazing
  - 2 obscured glazing
  - 3 gate to parking entrance/side gates painted MS frame/vertical rods/flat MS sheet
  - 4 timber screen panels with windows set in to open/hinged from top

- NOTES**
- ROOM AREAS:**
- 1 RECEPTION / CLOAKROOM / CARETAKER'S OFFICE 30sqm
  - 2 MAIN SHARED SPACE 72sqm
  - 3 GROUP ROOM 56sqm
  - 4 SMALL CHILDREN'S WC 15sqm
  - 5 OUTDOOR / INDOOR STORAGE additional outdoor / indoor storage 7.8sqm 5sqm
  - 6 INDIVIDUAL / SMALL GROUP ROOM 20sqm
  - 7 SECURE PARKING FOR TWO STAFF CARS / with bin storage facility 26sqm
  - 8 KITCHEN / SLUICE ROOM (SHARED) 17sqm + kitchen storage 1.7sqm
  - 9 WC male 15sqm female 10sqm

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# GARDINER ARCHITECTS

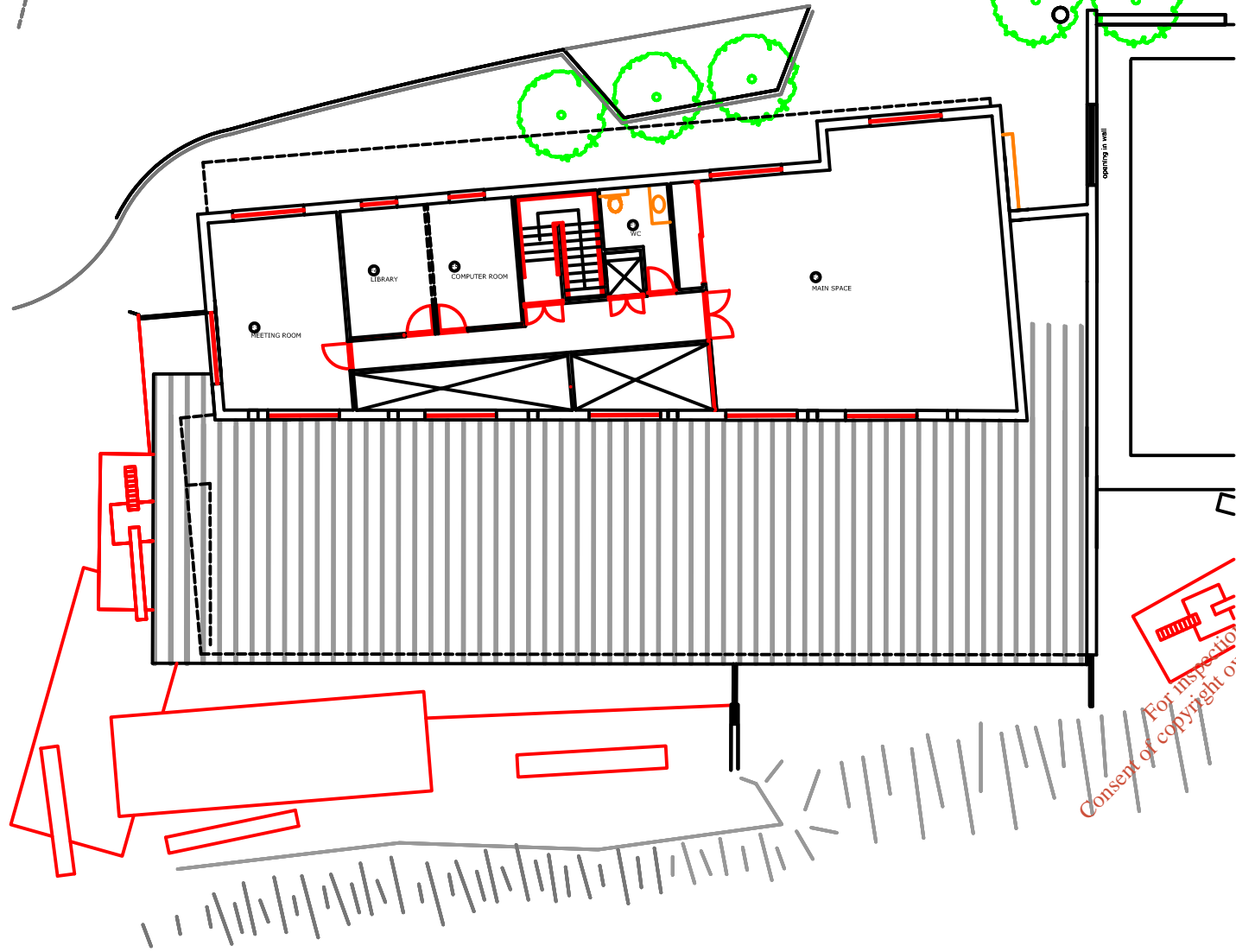
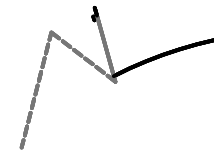
Revision	Date	By	For	Description	Author	Check	Date	Description



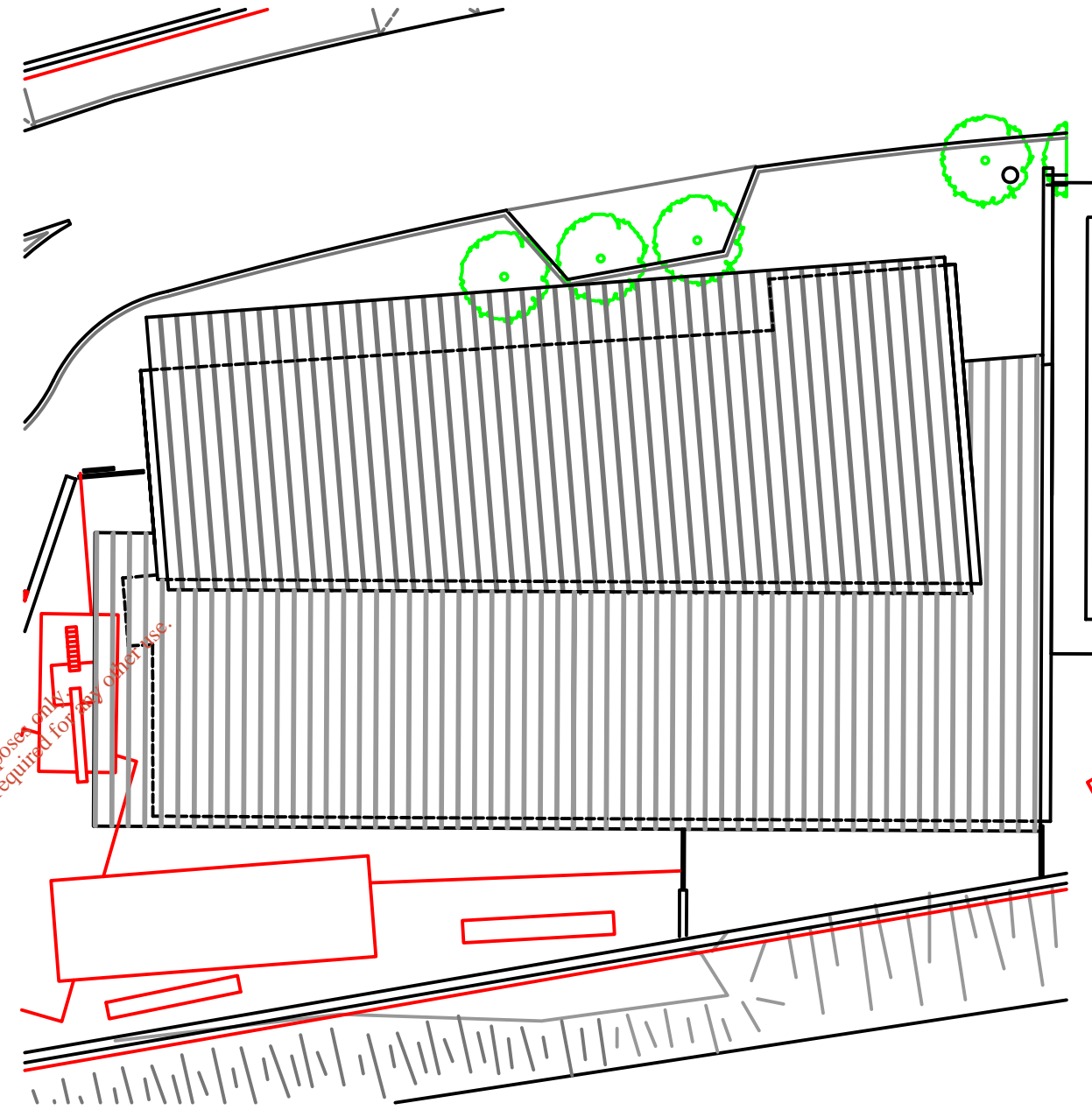
18pm House, 15 Mountjoy Sq., Dublin 1, Tel: (01) 8722200 Fax: (01) 8557526 Email: info@gardinarchitects.com	
Project	HOUSING DEVELOPMENT AT LABRE PARK, BALLYFERMOT, DUBLIN
Client	DUBLIN CITY COUNCIL
Drawing	PROPOSED COMMUNITY CENTRE GROUND FLOOR PLAN
Scale	1:100 A1
Date	OCTOBER 2005
Drawn By	CA/13/19/001
Scale	500 000 1:100 000
Drawn	CA/13/19/001
Checked	BA/11/KELLY

1. All dimensions to be checked on site 2. Do not scale from this drawing 3. Work to figured dimensions only 4. Any discrepancies to be reported to the architect  
 COPYRIGHT This drawing or design may not be reproduced without permission. EPA Export 25-07-2013:18:01:47





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GARDINER ARCHITECTS

Revision	Date	By	CHK'D	Description	Revision	Date	By	CHK'D	Description
A					F				
B					G				
C					H				
D					I				
E					J				



Project	HOUSING DEVELOPMENT AT LABRE PARK, BALLYFERMOT, DUBLIN	Scale	1:100 A1
Client	DUBLIN CITY COUNCIL	Date	OCTOBER 2005
Drawing	PROPOSED COMMUNITY CENTRE FIRST FLOOR & ROOF PLANS	Drawn By	GA105/110-302
		Series	LABRE PARK TRAINING
		Checked	PATRIK KELLY

## Appendix 7: Findings on Site Investigation

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TECHNICAL REPORT

**FINDINGS OF SITE INVESTIGATION AT LABRE PARK,  
DUBLIN 8**

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FOR

**Patel Tonra  
Environmental Solutions**

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Report prepared by: **Mairead Morrissey**, Environmental Consultant

Our reference: MM/04/2348R03

Date: 14 April 2005

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## EXECUTIVE SUMMARY

A Site Investigation was carried out on the 3<sup>rd</sup> December 2004 at a proposed Civic Amenity site at Labre Park, Ballyfermot, Dublin 8. The site investigation was carried out by Mairead Morrissey of AWN Consulting, and was attended by John Rea and Conor Tonra (Patel Tonra).

6 no. trial pits were excavated and logged during the S.I. Photographic records were also taken of the trial pits. Fill material was found in all of the pits, some of which contained C&D waste, and 2 of which contained domestic waste, partially decomposed.

There was a thin layer of topsoil overlying the entire site, between 30 – 80 cm in depth. The trial pit logs indicate that waste material was deposited at the site over a number of years. This fill material was eventually overlaid with a deposit of topsoil, which has a limited amount of vegetation.

It is recommended that a contamination assessment is carried out at the site prior to construction.

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### EXECUTIVE SUMMARY

1.0 INTRODUCTION

2.0 SITE DESCRIPTION AND HISTORY

3.0 DESIGN OF SITE INVESTIGATION

4.0 RESULTS

5.0 DISCUSSION OF SIGNIFICANCE OF RESULTS

6.0 CONCLUSION

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## 1.0 INTRODUCTION

AWN Consulting were instructed by John Rea of Patel Tonra Environmental Solutions, to undertake a site investigation at the Labre Park site, Ballyfermot, Dublin 8.

The main aim of the site investigation was to determine the presence, nature and possible extent of soil contamination at the Labre Park site.

## 2.0 SITE DESCRIPTION AND HISTORY

The proposed site is located within Labre Park, in Ballyfermot. Labre Park is bordered to the south by the Grand Canal, to the north by residential housing, to the west by industrial development and to the east by a bridge over the canal (Kylemore Road).

The site itself has not been developed previously. It is believed that the land has been waste ground for a number of years. There is evidence on the site that it has been used as a dumping ground until recently, with scrap cars, glass bottles, waste timber etc found across the site. The site is used by the adjacent halting site as grazing for horses.

## 3.0 DESIGN OF SITE INVESTIGATION

The site investigation consisted of the excavation of trial pits across the proposed site. A track excavator was used for the purpose of the excavations.

The investigation was designed following guidance provided in BS 10175:2001 - Investigation of Potentially Contaminated Sites – Code of Practice.

Due to the presence of overhead pylons and electricity wires, and also due to an underground foul sewer running approximately west to east, care was taken to avoid using the excavator in areas that may have damaged pipes or created a safety hazard.

## 4.0 RESULTS

The location of the trial pits is shown in Table 4.1 and can be seen in Figure 4.1 at the end of this report.

Trial Pit No.	Co-ordinates		Depth cm
	Easting	Northing	
1	309889	232583	180
2	309922	232587	190
3	309958	232580	200
4	309995	232572	210
5	310027	232564	210
6	310029	232592	210

Note: Handheld GPS +/- error 10 m

The trial pit logs are presented as Appendix 1 to this report.

The trial pit logs show that a mixture of waste materials was encountered beneath the top layer of soil, i.e. a minimum of 30 cm below ground level.

Trial Pit No. 1 showed the fill material to be clean C&D (Construction and Demolition) waste, predominantly clay material, with a few stones, plastic fragments, and pieces of asphalt.

Trial Pit No.s 2, 3 and 5 showed what appeared to be commercial waste, again primarily C&D waste, but which also contained bags of un-identified granular material (TP 2 and 5 only) and partially decomposed organic material.

Trial Pit No.s 4 and 6 contained municipal solid waste, including plastic bottles, textiles, cardboard and paper and decomposed organic material.

Boulder clay was encountered beneath the fill layer at depths of between 1.8 and 2.0 m in Trial Pits 2, 5 and 6. Water ingressed slowly into the pits in Pits 4 and 5, at approximately 1.8 m below ground level.

## 5.0 DISCUSSION OF SIGNIFICANCE OF RESULTS

Trial Pit No. 1 was the most westerly pit, and showed evidence of fill material, which was predominantly C&D waste. There was no staining or odour from the pit when excavated, and therefore no signs of contamination.

The trial pit logs showed that there are significant quantities of waste material across the site, which appears to have been deposited intermittently over a long period of time. The domestic waste found in Trial Pits No. 4 and 6 was found to be partially decomposed, giving off an odour of rotting material.

Trial Pits 2, 3 and 5 showed mixed C&D waste. Again, no hydrocarbon odour or staining was detected during the investigation, however the fill material should be classed as waste.

In Trial Pits 4 & 6 there was a layer of domestic waste, from 0.8 m to 2.1 m and from 0.4 m to 2.0 m below ground level respectively. This material was decomposing and an odour of hydrogen sulphide was noted at each of these locations during the investigation.

The water ingress was not believed to be groundwater, but water confined by the underlying boulder clay.

It is recommended that prior to construction a contamination risk assessment is carried out at the site. Appropriate remediation will be proposed depending on the findings of the contamination assessment.

## 6.0 CONCLUSION

Waste material was found in all of the pits excavated. The predominant waste type was C&C (Commercial & Demolition) waste, however, domestic waste was noted in two trial pits to the east of the site.

Further investigation will be required in order to determine the exact nature of the waste material.



**APPENDIX 1**  
**TRIAL PIT LOGS**

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**TRIAL PIT RECORD**

Contract: 04\_2348  
Patel  
Client: Tonra

Trial Pit No.: 1

Date: 03/12/2004

**Depth  
(cm)**

**Log**

**Description**

0		Topsoil dry crumbly loose medium brown
50	/	Mixed fill material. Predominantly boulder clay with plastic fragments, metal pieces, cardboard, styrofoam, blocks of tarmacadam
	/	
100	/	
	/	
150	/	
	/	Pit terminated at 180 cm

Groundwater conditions:

No water ingress

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**TRIAL PIT RECORD**

Contract: 04\_2348  
 Patel  
 Client: Tonra

Trial Pit No.: 2

Date: 03/12/2004

**Depth  
(cm)**

**Log**

**Description**

0	o o	Dark brown crumbly soil, with clasts pebble - cobble size
	o o	A few fragments of plastic, in matrix
	o o	
	o o	
50	o o	
	o o	
	.....	Thin lense of light orange/brown soil
	o o o	Dark brown soil, with cobble sized clasts
100		Very dark brown, soil, high moisture content
	██████████	Sacks of white granules in layer from 130 - 160 cm
	██████████	Faint smell of decomposing material from layer
150		
	o o o	Boulder clay, large cobbles and boulders
	o o	Pit terminated at 190 cm

Groundwater conditions: No water ingress

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**TRIAL PIT RECORD**

Contract: 04\_2348  
 Patel  
 Client: Tonra

Trial Pit No.: 3

Date: 03/12/2004

**Depth  
(cm)**

**Log**

**Description**

0	. . . .	Topsoil, medium brown, dry, crumbly, loose material
50		Dark grey/brown layer. High moisture content
100	/ / / / / /	Dark grey/brown layer with blocks of concrete
150		Dark black/brown layer, glistening appearance Strong odour of decomposing material, possible hydrocarbons Mixed waste found in layer - plastic, netting, sack cloth
200		
Groundwater conditions:		No water ingress

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**TRIAL PIT RECORD**

Contract: 04\_2348  
 Patel  
 Client: Tonra

Trial Pit No.: 4

Date: 03/12/2004

**Depth  
(cm)**

**Log**

**Description**

0	0 0	Medium brown soil, high clay content Some cobble to boulder size clasts
	0	
50	0 0	
	0	
	0	
100	/ /	Thick deposit of mixed domestic waste Decomposed very dark organic material, glass, plastic, shredded paper
	/ /	
	/ /	
	/ /	
150	/ /	
	/ /	
	/ /	
	/ /	
	~ ~ ~ ~ ~	Water ingress at 190 cm
200	/ /	Pit terminated at 210 cm

Groundwater  
 conditions:

Water seeping in at 190 cm

**TRIAL PIT RECORD**

Contract: 04\_2348  
 Patel  
 Client: Tonra

Trial Pit No.: 5

Date: 03/12/2004

**Depth  
(cm)**

**Log**

**Description**

0	. . . .	Medium brown soil, uncompacted, dry, no clasts
50	/ /	Mixed fill material Plastic sacks with orange white granules Faint odour of decomposing material, hydrocarbons
100		
150		
	~~~~~	Water trickling into trial pit at 180 cm
200	O O O O O O O O	Boulder clay very compacted and high proportion of clasts
		Pit terminated at 210

Groundwater conditions:

Water ingress at 180 cm

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**TRIAL PIT RECORD**

Contract: 04\_2348  
 Patel  
 Client: Tonra

Trial Pit No.: 6

Date: 03/12/2004

**Depth  
(cm)**

**Log**

**Description**

0	0   0	Medium brown soil, high clay content Some cobble to boulder size clasts
50	/   / /   / /   / /   /	Thick deposit of mixed domestic waste Dark decomposed organic material, plastic, textiles, cardboard, rubber fragments Faint odour of hydrocarbons
100	/   / /   / /   / /   /	
150	/   / /   / /   / /   /	
200	O   O O   O	Boulder clay

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Groundwater  
 conditions:

No groundwater encountered

## PLATES

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**Plate 1 Trial Pit 1**



**Plate 2 Trial Pit 1 Fill Material**



**Plate 3      Trial Pit 2**



**Plate 4      Trial Pit 2 Fill Material**



**Plate 5      Trial Pit 3**



**Plate 6      Trial Pit 3 Fill Material**



**Plate 7**      **Trial Pit 4**



**Plate 8**      **Trial Pit 4 Fill Material**



**Plate 9 Trial Pit 5**



**Plate 10 Trial Pit 5 Fill Material**



**Plate 11**      **Trial Pit 6**



**Plate 12**      **Trial Pit 6 Fill Material**

**APPENDIX 2- REVISED ATTACHMENT B7**

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## ATTACHMENT B.7 TYPE OF WASTE ACTIVITY, TONNAGES & FEE

The relevant activities to which this application relates as specified in the Third and Fourth Schedule of the Waste Management Acts 1996 to 2003 are detailed below.

The **Principle Activity** to be carried out at the site is **Class 13, Fourth Schedule**. This is defined as:

**“Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.”**

The Civic Amenity Site will provide for the collection of recyclable materials such as glass, plastics, beverage cans and textiles. The facility will also cater for the collection of construction and demolition waste derived from households, household hazardous waste and other bulky wastes. The recyclable materials will be stored on site in sealable containers prior to being collected by permitted waste collection contractors and taken off site for recovery. Designated containers will also be provided to facilitate the collection of separate organic waste, i.e. green waste, hedge clippings, tree clippings, etc. Green waste will also be compacted on-site prior to being shipped off-site for recycling.

The development is also covered under the following Classes.

**Third Schedule, Class 13- “Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.”**

The operation of the facility will involve the temporary storage of residual domestic waste prior to its dispatch from the site to alternative waste disposal facilities. Waste from the street cleaning vehicles will also be temporarily stored on-site prior to removal off site for disposal.

**Fourth Schedule, Class 3- “Recycling or reclamation of metals and metal compounds.”**

Designated containers will be provided for the collection of bulky metals e.g. old bicycles, steel frames, copper piping, etc. A separate container for beverage cans will also be provided.

**Fourth Schedule, Class 4- “Recycling or reclamation of other inorganic materials.”**

Designated containers will be provided for the collection of inorganic materials, such as construction and demolition waste derived from household renovations, conversions, etc.

A detailed site investigation programme was undertaken within the Labre Park site in March/April 2005. As part of the site investigation programme 30 No. trial pits were excavated across the site to determine the nature and extent (both lateral and vertical) of the materials infilled above natural ground. The findings of the site investigation programme indicate that the thickness of the inert fill material varies from 2.5m to 3m across the site, giving a volume of between 95,000m<sup>3</sup> (2.5m thick fill) to 114,000m<sup>3</sup> (3m thick fill). This material will be left in-situ and will remain undisturbed where possible.



**APPENDIX 3- DRAWING NO.1260/01/301**

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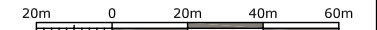
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Legend:

NOTE: Ordnance Survey Ireland Licence No. EN001602  
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Notes:

1. Figured Dimensions only to be taken from this drawing.
2. All Drawings to be checked by the Contractor on site.
3. Engineer to be informed of any discrepancies before any work commences.
4. All levels relate to Ordnance Survey Datum at Malin Head.



suffix	drawings	date	int

Client



Project

LABRE PARK CIVIC AMENITY SITE  
WASTE LICENSE APPLICATION

Drawing Title

SITE LOCATION MAP  
& CLOSEST RECEPTORS

Scale 1 : 1000 (A1)  
 Drawn by Dermot Burke  
 Checked by  
 Date November 2005

ENGINEER IN CHARGE: Dermot Burke



Drawing No.

1260/01/301

Rev.



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