Section B Attachment B5

The file entitled “Application Form Attachment B5” related to the application in Shanganagh and was included in the application for Ringsend in error. This file has been replaced and is attached to this correspondence. Consequently there are now no overflows labelled with DLRCC/B5/S…

Discharges labelled DLRCC/B4/R… relate to pump station emergency overflows.

Section C

Pump Station	Duty	Standby Assist	Storage Capacity (m3)
West Pier PS	1	1	1 420
Bullock PS	1		1 3000
Blackrock PS	1		1 13
Tobernea PS	1		1 15
Brighton Vale	1		7
Rockland	1	1	7
Coliemore No.1 PS	1	1	488
Coliemore No.2 PS	1	1	26
St Helens PS	1	1	32

Further Detail

West Pier Pump Station
1 No duty/standby pumps

1No duty, 1 no assist and 1 no stand-by
1No pump running 800l/s 2No pumps running 1000 l/s

2. Measures in place in event of a power failure

No stand-by generation. In emergencies the storage tank and sump fill before spillage occurs.

3. Storage Capacity Details
Sump Volume 420m3 and storage tank 7400m3.

4. Design Criteria and Construction of Overflows
Designed to overflow 3 times per year. No fine screening provided.

Bullock Pump Station

1. No. of duty / standby pumps
1No duty, 1 no assist and 1 no stand-by
1No pump running 90 l/s 2No pumps running 160 l/s

2. Measures in place in event of a power failure

No stand-by generation. In emergencies spill to sea however upstream storage available would have to be mobilised first. There is a full telemetry system in place which is connected to DLRCC. In event of power failure at either / both pumping stations DLRCC will receive an alarm indicating same

3. Storage Capacity Details
On-line storage in upstream culvert estimated to be 3000m3 or some 9 hrs storage at DWF.

4. Design Criteria and Construction of Overflows
Designed to spill to twin sea outfalls 3 spills per bathing season. Tideflex valves (within pumping station site) on outfalls discharging below LAT. No fine screening provided.

Coliemore Pump Stations 1 and 2

1. No. of duty / standby pumps
PS1 - 1 no. duty / 1 no. standby – pumping at 12 l/s
PS2 - 1 no. duty / 1 no. standby – pumping at 15 l/s

2. Measures in place in event of a power failure

There is no standby generation in place. There is a full telemetry system in place which is connected to DLRCC. In event of power failure at either / both pumping stations DLRCC will receive an alarm indicating same.

Where PS2 only fails, the telemetry will halt flows being pumped from PS1 to PS2.

3. Storage Capacity Details
PS1 – total volume: 588 m^3, volume to level of overflow: 488 m^3. Note that there are also tank sewers immediately upstream of the pumping station, which provide additional storage capacity (circa 60 metres of 900 mm sewer)
PS2 – total volume: 29 m^3, volume to level of overflow: 26 m^3

In DWF conditions PS 1 has some 95 hours storage capacity and PS2 has some 32 hours storage capacity, assuming dry antecedent conditions.

4. Design Criteria and Construction of Overflows
PS1 – Designed to spill no more than 7 spills per bathing season, with screening to 6 mm in two dimensions. PS1 is a compartmentalised RC tank structure, with screened discharges to the 20 year return period and a higher level emergency overflow should events be larger / screen is blinded. Length of screen is 3.5 metres and higher level weir is 3.0 metres, discharging via existing 375 mm outfall. Tideflex valve has been installed on outfall.

PS2 – Designed to spill no more than 1 spill per annum. Telemetry is such that as level is sump approached the overflow level, PS1 is to halt pumping flows to PS2. PS2 is an RC sump, with 300 mm overflow

Section E

(i)The design criteria for the West Pier, Bullock and Coliemore Pump Stations are above. The other pump station overflows operate during emergencies only.

(ii) Frequency of Discharge of DLRCC/B4/R/001D (days/annum) <3.

(iii) The design criteria for the West Pier Pump Station are attached. The pumped flows are measured by telemetry and the duty pump flow of 800 l/s and the duty assist flow of 1000 l/s are as per the original design. The performance of the long and short sea overflows are the subject of a study currently underway. An initial analysis of the real flows entering the station during a rainfall event show them to be vastly higher than flows the station was designed to cater for. Consequently the frequency of discharge has greatly exceeded the 3 times per annum design figure.

Section F

There has not been a programme of sampling that can identify the impact of storm water overflows on surface waters in the county.

Section G

Dodder Valley Drainage Study

The study is to examine the catchment in DLRCC that feeds into the Dodder Valley Sewer. This catchment includes Dundrum, Clonskeagh, Churchtown and parts of Sandyford. The study will propose improvements to the catchment drainage system that will cater for existing and future development. The following overflows are within this catchment and may be affected; DLRCOCO/B5/001, DLRCOCO/B5/005, DLRCOCO/B5/006, DLRCOCO/B5/010, DLRCOCO/B5/011, DLRCOCO/B5/012, DLRCOCO/B5/013.

The Completion Date
The Projection is approved to planning stage in the Water Services Investment Programme.

The Source of Funding
DOEHLG, water services charges to non domestic customers and planning development contributions.

A description and quantification of the expected improvements with respect to relevant standards and legislation.

Unknown in detail at this stage. Improvements in the carrying capacity of the drainage system should reduce the frequency of overflows in the catchment.

Dun Laoghaire Sewerage Scheme Contract 4D

The study is to examine the the Dun Laoghaire catchment in detail. The study will propose improvements to the catchment drainage system that will cater for existing and future development. The following overflows are within this catchment and may be affected; DLRCOCO/B5/002, DLRCOCO/B5/003, DLRCOCO/B5/004, DLRCOCO/B5/007, DLRCOCO/B5/008, DLRCOCO/B5/009, DLRCOCO/B5/014, DLRCOCO/B5/015, DLRCOCO/B5/016, DLRCOCO/B5/017, DLRCOCO/B5/018, DLRCOCO/B5/019, DLRCOCO/B5/020, DLRCOCO/B5/021, DLRCOCO/B5/022, DLRCOCO/B5/023, DLRCOCO/B5/024, DLRCOCO/B5/025, DLRCOCO/B5/026 DLRCOCO/B5/027.

The Completion Date
The Projection is approved to planning stage in the Water Services Investment Programme.

The Source of Funding
DOEHLG, water services charges to non domestic customers and planning development contributions.

A description and quantification of the expected improvements with respect to relevant standards and legislation.

Unknown in detail at this stage. Improvements in the carrying capacity of the drainage system should reduce the frequency of overflows in the catchment.

The West Pier and Bullock Catchment Studies

These studies were completed in 2005 and had the following recommendations:

It is recommended that the Council proceed with the engineering design and construction of the following catchment improvements

1. The overflow between the manhole outside the Eagle House in Glasthule and Newtownsmith
2. The rehabilitation of the existing sewer in Sandycove Avenue North and the new CSO discharding to the sea behind Sandycove Baths
3. The proposed pilot project to reduce infiltration .

Engineering studies should be advanced in relation to the following:

1 Environmental improvements to the CSO's at Bullock and West Pier Pumping Stations
2 Advection and dispersion modelling of the existing overflows at West Pier and Bullock
3 Additional investigations into flooding at locations throughout the catchment and of exfiltration from the Board of Works culvert adjacent to the Peoples Park.

Coliemore Pump Station

This Pump Station was completed in 2008 and removes a permanent outfall into Coliemore Harbour, Dalkey. Details of the design criteria for the 2 pump stations are given above.

Waste Water Discharge Licence Application Form

Fingal Portion of Ringsend Agglomeration

D0034-01

Response to notice from EPA in accordance with Regulation 18(3)(b) of the Waste Water Discharge (Authorisation) Regulations 2007

Section C – Fingal County Council

Pumping Station Name	No of duty pumps	No of standby pumps	Storage Capacity (m^3)
Santry	1	1	34.6
Turnapin	1	1	
Dubber Cross	1	1	9.46
Portmarnock Strand	1	1	
Portmarnock Bridge	1	1	
Mayne Bridge	1	1	48
Baldoyle Village	1	1(Assist)	
(1 storm pump which pumps to overflow when duty/assist pumps are unable to handle flow)			
Baldoyle Road	1	2(Assist)	
Sutton Park	1	1	4.3
Strand Rd Sutton	1	1	
Burrow Road	1	2(Assist)	
(1 storm pump, 1 standby storm pump which pumps to overflow when duty/assist pumps are unable to handle flow)			
Claremont	1	-	
Techcrete	1	1	
Blanchardstown	1	1	56.5
River Rd Blanch	1	1	
Castlethorn/Riverwood	1	1	

As can be seen from the above table, there are no drawings and no information for some of the pumping stations. There is a program in place which started two years ago to survey the pumping stations and sumps as they are cleaned. This is ongoing.

The majority of the pumping stations are on telemetry and have an Uninterruptable Power Supply (UPS) with battery pack in the event of a power failure. In the event of a power failure, the telemetry (LOGICA) system alarms out. The alarms are picked up by the local inspector or are monitored in Leixlip Water Treatment Works which has a 24 hour presence. Staff are then assigned to the relevant pumping station.

There is no design calculations available for the storm overflows in the Fingal area. These were generally put in by the Area Engineers to relieve a reoccurring flooding problem until such time as the network could be improved. The pumping stations similarly were provided in the past with an overflow as a matter of course with little or no design involved other than level and fall. None of this design detail is available.

No further details on the secondary discharge has become available.

Section E - Fingal County Council

(i) Fingal-SW26: This is the overflow from the Baldoyle Village P.S. There is a major increase in flow to this P.S. during heavy rainfall which overwhelms the pumps. A storm pump is then called in which pumps to the overflow. Under the Dublin Bay Sewerage Scheme Contract 5/2 a new pumping station is to be built here. The Initial Report is with the DoEHLG and the new pumping station is expected to be completed within the next five years.

Fingal-SW43: This is an overflow in the grounds of Superquinn in Sutton. There is a siphon downstream of this point which blocks occasionally. The network is this area is also under pressure, especially during heavy rainfall. Under either of these conditions, the overflow comes into operation. Under Contract 5/1(b) of the Dublin Bay Sewerage Scheme a new pipeline is to be constructed in this area which will see the overflow being terminated. This work is expected to be completed by the end of 2009.

(ii) Monitoring Point 453-40: 315426E, 241106N
Monitoring Point 459-30: 316534E, 244960N
Monitoring Point 459-80: 322098E, 243114N

Section F – Fingal County Council

The overflows in this agglomeration affect the Irish Sea and the following rivers: Mayne, Sluice, Pinkeen, Tolka, Liffey, Santry and some un-named streams and ditches.

Mayne River: Waters were satisfactory for 2006 Dangerous Substances Report, and achieved compliance with the Phosphorus Regs for 2005 & 2006. The EPA Water Quality Report in 2005 states that it remains moderately polluted. However the one overflow to this river is located at the confluence with the sea and any overflow would not affect the sampling carried out for the above reports.

Sluice River. One exceedance for zinc was noted in the Dangerous Substances Report for 2005 and 2006. The river was not sampled under the Phosphorus regulations. The river was not sampled under the EPA Water Quality Report. There are two overflows to this river. Both are very close to the mouth of the river and would not affect the sampling points for the dangerous substances report.

Pinkeen River: One exceedance for zinc was noted in the Dangerous Substances Report for 2005 and 2006. MRP levels were elevated in the period 2005/2006 during sampling for the Phosphorus Report. The Water Quality Report 2005 notes that there were indications of a significant degree of water quality impairment during the survey period but also notes that the stream may run dry at times. There is one overflow from a private P.S., no information is available as to quantities of overflows.

Tolka River: Water quality was found to be satisfactory for the Dangerous Substances parameters for 2005/2006. In the Phosphorus Report for 2005/2006, it was noted that for the stretch of the river in the Fingal area, the station at Mulhuddard retained compliance with the Q value target but the station at Abbotstown, while improving, did not. In the Water Quality Report 2005, it was noted that the stretch of the river in the Fingal area was moderately polluted. There are five overflows into the Tolka. One of these is estimated by the inspector to overflow approximately 8 times a year. The overflows occur due to heavy rainfall. It is felt that the dilution of the sewage and the increased flow in the river when the overflows occur would mean that the effect of the overflows are minimal. Preliminary studies have commenced for the duplication of the 9C sewer which should alleviate the flow to this pump station.

Liffey River: The Liffey River is not sampled by Fingal Co Co under either the Dangerous Substances or the Phosphorus Regulations. In the Water Quality Report by the EPA in 2005, the Liffey in the area bordering Fingal is rated as moderately polluted. As there is only one overflow that discharges to the Liffey and this is estimated to occur once per year, and having regard to the flow in the river, it is felt that the overflow has little or no effect on the water quality in the Liffey.

Santry River: One exceedance for copper was noted in the Dangerous Substances Report for 2005/2006. The Santry was not sampled by Fingal under the Phosphorus Regulations. The EPA Water Quality Report shows improvement in the river since the previous report. There is one overflow, from the Santry P.S., which is estimated to occur approx 4 times a year. This occurs in times of heavy rainfall. It is felt that the the dilution of the sewage and the increased flow in the river at the overflow times means that the effects of the overflow is minimal.

Irish Sea: One exceedance for nickel was noted in the 2005/2006 Dangerous Substances Report. The Bathing Water Quality Report for 2007 shows that Portmarnock and Burrow beach in Sutton failed the EU Guide Limits and Burrow beach also failed the National Limit Value. There are 14 overflows that discharge to the Irish Sea in the Fingal area contributing to the Ringsend agglomeration. The local area inspectors estimate that 7 of these do not overflow in an average year. Baldoyle Village P.S. overflows an estimated 13 occasions a year, in periods of heavy rainfall. There are two overflows in Howth village that are both estimated to overflow on 6 occasions a year, again in periods of heavy rainfall or blockages in the sewers. Contract 5 of the Dublin Bay Sewerage Scheme will alleviate these overflows through the construction of a new pumphouse opposite the entrance to Howth Castle and new sewers from Howth village and through Sutton. These works are expected to be complete by the end of 2009.
It is felt that the main reason for the poor quality in the Sutton beach area is due to the discharge of raw sewage from the Nose of Howth from the Sutton/Howth area, and the discharge into Doldrum Bay of untreated sewage. The works going on at present under Contract 5/1 will capture the vast majority of the discharge from the Nose of Howth and under Contract 5/2 the rest of this discharge and that into Doldrum Bay will be captured and pumped to Ringsend. This Contract is due for completion before 2012.

Section G – Fingal County Council

Section G1: Compliance with Council Directives

Improvement 1: Dublin Bay Sewerage Scheme (Contract 5 Part 1)

At present, untreated sewage from the Howth and Sutton catchments is pumped into the North Dublin Drainage System where it is diverted into a tunnel that discharges off the nose of Howth. To ensure compliance with the EU UWWTD, Contract 5 (Part 1 – Howth & Sutton) will involve the upgrading of the sewerage collection network in the Howth and Sutton catchments and the provision of new pumping stations. These sewers will be connected to the Sutton Pumping Station, where the effluent will be pumped via the new submarine pipeline under Dublin Bay to the Ringsend Wastewater Treatment Plant. It is envisaged that these works will cost €14.28m and be completed by the end of 2009. The funding for the project will come from the DoEHLG's Water Services Investment Programme 2007-2009.

This Contract will end the discharge of untreated sewage from the Nose of Howth, (Fingal – S5), and alleviate the overflows from the following sites:- Fingal-SW42, Fingal-SW43, Fingal-SW46, Fingal-SW47, Fingal-SW48 and Fingal-SW49.

Improvement 2: Dublin Bay Sewerage Scheme (Contract 5 Part 2)

This Contract relates to other improvements to the drainage system within the catchment and includes additional works in the Howth, Sutton, Baldoyle and Portmarnock areas. This will effect the discharge of untreated sewage into Doldrum Bay (Fingal-S4). Work is not expected to start before 2009 and should be complete by 2012. The funding will come from the DoEHLG's Water Service Investment Programme 2007-2009 and from development levies on the basis of the Water Pricing Policy.

This Contract will end the discharge of untreated sewage into Doldrum Bay, (Fingal – S4), and alleviate the overflows from the following sites:- Fingal-SW26, Fingal-SW27, Fingal-SW38 and Fingal-SW41.

Improvement 3: Blanchardstown Regional Drainage Scheme.

This Scheme will 1) upgrade the existing network within the contributing catchment; 2) Duplicate the existing 9C trunk sewer and provide offline storage; 3) refurbish the River Liffey siphons and 4) refurbish the existing 9C trunk sewer. This project will be funded by the Water Services Investment Programme and by development levies on the basis of the Water Pricing Policy. The estimated cost of this project is €90m. The planning for this Scheme has commenced and the Scheme is expected to be complete by 2012.

This Scheme will alleviate overflows from the following points:- Fingal-SW51, Fingal-SW54 and Fingal-SW55.

Improvement 4: Santry Pump Station Scheme.

This Scheme will replace the existing pumping station at Santry Close. The existing station is overloaded and discharging untreated sewage to the Santry River at times of high rainfall. The project will be funded by development levies and is estimated to cost €0.45m. The scheme is expected to commence in late 2008 and be complete in 2009.

The scheme will alleviate overflows from discharge point Fingal-SW21.

The improvements listed above will ensure compliance with the Dangerous Substances Directive 2006/11/EC, the Water Framework Directive 2000/60/EC, the Birds Directive 79/409/EEC, the Groundwater Directives 80/68/EEC & 2006/118/EC, the Drinking Water Directives 80/778/EEC, the Urban Waste Water Treatment Directive 91/271/EEC, the Habitats Directive 92/43/EEC, the Environmental Liabilities Directive 2004/35/EC and the Bathing Water Directive 76/160/EEC.

Section G2: Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No 258 of 1998).

Please see Attachment G2 (Phosphorus Regulations 4th Implementation Report Ju;y 2006) in original application. Details of the programme of improvements and their implementation are on pages 10 to 13 of the Report.

The actions listed therein will ensure compliance with Water Quality Standards for Phosphorus Regulations.

Section G3: Impact Mitigation

Improvement 1: Dublin Bay Sewerage Scheme (Contract 5 Part 1)

At present, untreated sewage from the Howth and Sutton catchments is pumped into the North Dublin Drainage System where it is diverted into a tunnel that discharges off the nose of Howth. To ensure compliance with the EU UWWTD, Contract 5 (Part 1 – Howth & Sutton) will involve the upgrading of the sewerage collection network in the Howth and Sutton catchments and the provision of new pumping stations. These sewers will be connected to the Sutton Pumping Station, where the effluent will be pumped via the new submarine pipeline under Dublin Bay to the Ringsend Wastewater Treatment Plant. It is envisaged that these works will cost €14.28m and be completed by the end of 2009. The funding for the project will come from the DoEHLG's Water Services Investment Programme 2007-2009.

This Contract will end the discharge of untreated sewage from the Nose of Howth, (Fingal – S5), and alleviate the overflows from the following sites:- Fingal-SW42, Fingal-SW43, Fingal-SW46, Fingal-SW47, Fingal-SW48 and Fingal-SW49.

Improvement 2: Dublin Bay Sewerage Scheme (Contract 5 Part 2)

This Contract relates to other improvements to the drainage system within the catchment and includes additional works in the Howth, Sutton, Baldoyle and Portmarnock areas. This will effect the discharge of untreated sewage into Doldrum Bay (Fingal-S4). Work is not expected to start before 2009 and should be complete by 2012. The funding will come from the DoEHLG's Water Service Investment Programme 2007-2009 and from development levies on the basis of the Water Pricing Policy.

This Contract will end the discharge of untreated sewage into Doldrum Bay, (Fingal – S4), and alleviate the overflows from the following sites:- Fingal-SW26, Fingal-SW27, Fingal-SW38 and Fingal-SW41.

Improvement 3: Blanchardstown Regional Drainage Scheme.

This Scheme will 1) upgrade the existing network within the contributing catchment; 2) Duplicate the existing 9C trunk sewer and provide offline storage; 3) refurbish the River Liffey siphons and 4) refurbish the existing 9C trunk sewer. This project will be funded by the Water Services Investment Programme and by development levies on the basis of the Water Pricing Policy. The estimated cost of this project is €90m. The planning for this Scheme has commenced and the Scheme is expected to be complete by 2012.

This Scheme will alleviate overflows from the following points:- Fingal-SW51, Fingal-SW54 and Fingal-SW55.

Improvement 4: Santry Pump Station Scheme.

This Scheme will replace the existing pumping station at Santry Close. The existing station is overloaded and discharging untreated sewage to the Santry River at times of high rainfall. The project will be funded by development levies and is expected to cost €0.45m. The scheme is expected to commence in late 2008 and be complete in 2009.

The scheme will alleviate overflows from discharge point Fingal-SW21.

The improvements listed above will ensure compliance with the Dangerous Substances Directive 2006/11/EC, the Water Framework Directive 2000/60/EC, the Birds Directive 79/409/EEC, the Groundwater Directives 80/68/EEC & 2006/118/EC, the Drinking Water Directives 80/778/EEC, the Urban Waste Water Treatment Directive 91/271/EEC, the Habitats Directive 92/43/EEC, the Environmental Liabilities Directive 2004/35/EC and the Bathing Water Directive 76/160/EEC.

Section G4: Storm Water Overflows

Improvement 1: Dublin Bay Sewerage Scheme (Contract 5 Part 1)

At present, untreated sewage from the Howth and Sutton catchments is pumped into the North Dublin Drainage System where it is diverted into a tunnel that discharges off the nose of Howth. To ensure compliance with the EU UWWTD, Contract 5 (Part 1 – Howth & Sutton) will involve the upgrading of the sewerage collection network in the Howth and Sutton catchments and the provision of new pumping stations. These sewers will be connected to the Sutton Pumping Station, where the effluent will be pumped via the new submarine pipeline under Dublin Bay to the Ringsend Wastewater Treatment Plant. It is envisaged that these works will cost €14.28m and be completed by the end of 2009. The funding for the project will come from the DoEHLG's Water Services Investment Programme 2007-2009.

This Contract will end the discharge of untreated sewage from the Nose of Howth, (Fingal – S5), and alleviate the overflows from the following discharge points:- Fingal-SW42, Fingal-SW43, Fingal-SW46, Fingal-SW47, Fingal-SW48 and Fingal-SW49.

Improvement 2: Dublin Bay Sewerage Scheme (Contract 5 Part 2)

This Contract relates to other improvements to the drainage system within the catchment and includes additional works in the Howth, Sutton, Baldoyle and Portmarnock areas. This will effect the discharge of untreated sewage into Doldrum Bay (Fingal-S4). Work is not expected to start before 2009 and should be complete by 2012. The funding will come from the DoEHLG's Water Service Investment Programme 2007-2009 and from development levies on the basis of the Water Pricing Policy.

This Contract will end the discharge of untreated sewage into Doldrum Bay, (Fingal – S4), and alleviate the overflows from the following sites:- Fingal-SW26, Fingal-SW27, Fingal-SW38 and Fingal-SW41.

Improvement 3: Blanchardstown Regional Drainage Scheme.

This Scheme will 1) upgrade the existing network within the contributing catchment; 2) Duplicate the existing 9C trunk sewer and provide offline storage; 3) refurbish the River Liffey siphons and 4) refurbish the existing 9C trunk sewer. This project will be funded by the Water Services Investment Programme and by development levies on the basis of the Water Pricing Policy. The estimated cost of this project is €90m. The planning for this Scheme has commenced and the Scheme is expected to be complete by 2012.

This Scheme will alleviate overflows from the following points:- Fingal-SW51, Fingal-SW54 and Fingal-SW55.

Improvement 4: Santry Pump Station Scheme.

This Scheme will replace the existing pumping station at Santry Close. The existing station is overloaded and discharging untreated sewage to the Santry River at times of high rainfall. The project will be funded by development levies and the estimated cost is €0.45m. The scheme is expected to commence in late 2008 and be complete in 2009.

The scheme will alleviate overflows from discharge point Fingal-SW21.

The improvements listed above will ensure compliance with the Dangerous Substances Directive 2006/11/EC, the Water Framework Directive 2000/60/EC, the Birds Directive 79/409/EEC, the Groundwater Directives 80/68/EEC & 2006/118/EC, the Drinking Water Directives 80/778/EEC, the Urban Waste Water Treatment Directive 91/271/EEC, the Habitats Directive 92/43/EEC, the Environmental Liabilities Directive 2004/35/EC and the Bathing Water Directive 76/160/EEC.

B.10 Capital Investment Programme

The upgrade (Phase 2A & B) which commenced in late 2007 for the Ashbourne /Ratoath / Kilbride conglomeration will reduce the risks of untreated discharges to the Broadmeadow River and also cater for ongoing and future developments in these areas. The total contract value is circa €12M for civil and mechanical / electrical works. This contract will include the provision of an additional storm holding tank at Ashbourne with a storage capacity of 1,920 cubic metres to augment the existing storm tanks (converted from treatment tanks as part of capital works in 2000) which have combined total storage capacity of 850 cubic metres, making a total of 2,770 cubic metres. This phase of works also includes the provision of a new storm tank at Ratoath, with a total storage of 1,700 cubic metres. The Ratoath facility at present has no storm storage.

The main pumping station in Kilbride does not and will not have storm storage. In the event of high levels been reached in the sump at this station a signal is sent to both Ashbourne and Ratoath main pumping stations to shut down the pumps at these stations. There is a small pumping station serving the council housing estate in Kilbride which has sufficient storage for 24 hours in the event of a mechanical or electrical breakdown. This station discharges to header manhole chamber into which the pumping mains from Ashbourne and Ratoath discharge. These combined flows flow to main Kilbride station in a sealed gravity sewer line for a distance of 400 metres approximately.
There is an emergency overflow provided at high level from sump of main station to a small stream that borders the site of the pumping station.

A new 250mm pumping main between Ratoath & Kilbride is also being provided to augment the existing 200mm diameter main that was laid in 2000. The contract also includes the upgrading of all pumps and controls at Kilbride and Ashbourne main pumping stations and the provision of a totally new pumping station station in Ratoath

A sum of € 3.5 M will be allocated for rehabilitation on sewer networks under Phase 2B, making total of €15.5 M. which is scheduled for completion in 2008/9

Phase 2 C by 20015 @ estimate of € 5.5 M will include duplication of pumping mains between Ashbourne and Kilbride and likewise between Kilbride and Mullhuddart. The pumping station at Kilbride would also be upgraded under this phase.

Ashbourne / Ratoath / Kilbride Sewerage Scheme

Existing and Proposed Pumping Capacities

Location	Existing Pumping Capacity	Pumping Capacity Proposed Up to 2015 (Phases 2A&B)	Pumping Capacity Proposed from 2015 Up to 2023 (Phase 2C)
Ashbourne	85 l/s or 7,344 m³/d	90 l/s (2xDWF) or 7,776 m³/d	150 l/s (2.5xDWF) or 12,960 m³/d
Ratoath	32 l/s or 2,765 m³/d	58.5 l/s (2xDWF) or 5,055 m³/d	64 l/s (2xDWF) or 5,530 m³/d
Kilbride	120 l/s or 10,368 m³/d	148.5 l/s or 12,830 m³/d	214 l/s or 18,490 m³/d

Section C – Meath

The pumping stations serving the Ashbourne, Ratoath and Kilbride agglomeration are equipped as follows ;

Kilbride Main Station ; 3 No. pumps configured in a duty / assist / stand – by mode. This station is equipped with a stand – by generator that is housed and muffled. It can maintain pumping capacity in the event of a power outage. This station does not have storm water storage tanks.

Kilbride Housing, Station ; 2 No. pumps to act in a duty / stand – by configuration The pump sump at this station has sufficient capacity for 24 hours storage at 1 DWF.

Ratoath Main Station ; presently is equipped with 2 No. pumps to act in a duty / stand – by configuration. When the new pumping station is completed in late 2008 / early 2009, there will be 3 No. pumps to act in a duty / asssit / stand – by configuration.
The three smaller feeder stations in Ratoath are equipped with 2 No. pumps in each to act in a duty / stand – by configuration. Each of these feeder stations has storm water holding tanks, each with a capacity of approximately 200 cubic metres. This will make a combined total of 2,300 cubic metres storm storage when new main pumping station and storm holding tank is completed. This will give sufficient storage ultimately for 14 hours at 1 DWF

Ashbourne Main Station ; 3 No. pumps to act in a duty / assist / stand – by configuration. This station will have a total storm water storage capacity of 2,800 cubic metres when additional storm holding tank is completed in late 2008 / early 2009. This will give sufficient storage ultimately for 12 hours at 1 DWF
The three smaller feeder stations in Ashbourne are each equipped with 3 No. pumps to act in a duty / assist / stand - by configuration.
Pump station No.1 at Milltown Road does not have a storm holding tank. The capacity of the pump sump at this station has a storage capacity to cater for 18 hours at 1 DWF.
The two other feeder stations, Pump Station No2 at Millennium Park and Pump Station No3 at Castle Street each has storm water storage tanks with a capacity of 400 cubic metres. This will allow sufficient storage for 15 hours at 1 DWF.

All of the pumping stations are equipped with telemetry and in the event of any mal-function that gives rise to a critical alarm condition the relevant Caretaker is notified by text message. The stand – by generator at Kilbride Main Station will automatically take over in the event of a mains power outage at this location.

SECTION I: Joint DECLARATION

Joint Declaration [Note1]

I hereby make application for a waste water discharge licence/revised licence, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website.

This consent relates to this application itself and to any further information or submission whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

Lead Authority

Signed by : _____ **Date :** 25.5.08

(on behalf of the organisation)

Print signature name: G. O'HERTY

Position in organisation: SEE, DRAINAGE DIV.

Co-Applicants

Signed by : _____ **Date :** 13/12/07

(on behalf of the organisation)

Print signature name: EUGENE CUMMINS

Position in organisation: DIRECTOR OF SERVICES, INFRASTRUCTURE MEATH CO. COUNCIL

Signed by : _____ **Date :** _____

(on behalf of the organisation)

Print signature name: _____

Halla an Chontae
Lár an Bhaile,
Tamhlacht
Baile Átha Cliath 24
Telefon: 01-4149000
414900
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01414910
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South Dublin County Council
Drainage Maintenance / Operations & Water Pollution Control
County Hall
Tallaght, Dublin 24.
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Telephone: 01-4149000 ex 4465
Fax: 01-4149101
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EPA,
Regional Inspectorate,
McCumiskey House,
Richview,
Clonskeagh rd,
Dublin 14.

Re: Notice in accordance with Regulation 18(3)(b) of the Waste Water Discharge (Authorisation) Regulations 2007.

Article 16 Compliance Requirements

Section A

To be completed by Dublin City Council

Section B - South Dublin County Council

(1) Section B.5

(i) For SDCCPS07b, the application states that this discharge is to cease in 2008, clarify whether the pumping station is to close or alternative measures proposed and clarify the date of cessation/decommissioning of the discharge.

Response

This overflow relates to the Ballymanagin Pumping Station. It is not intended to close or decommission this pumping station. From Drawing number SDCC PS 07 of the Article 16 Response it can be seen that there are two overflows on the inlet to the Pumping Station. It is intended to decommission one of these (SW22aSouthDublin).

(ii) For SDCCPS10a, clarify the type of discharge (e.g. an emergency discharge from the pump station, a discharge direct from a foul sewer caused by insufficient capacity, a storm water overflow etc.

Response
SDCCPS10a relates to an emergency discharge from the Tay Lane Pumping Station.

(iii) For SDCCSWO03, provide confirmation that this overflow has been decommissioned

Response
Airton Road
The FS that Bimeda discharges to has an overflow to the FS on the opposite side of the road (overflow from FS to FS). This overflow did not prevent sewer overflow at Bimeda. It is believed that this overflow failed to function when the FS to which it was connected surcharged (both FS in surcharge). Drainage Maintenance Division constructed an overflow from Bimeda`s connection to an adjacent stream (Priory Stream). The new Airton Road FS disconnected the original FS to FS overflow and directed it into the new pipeline. **This new scenario needs to be monitored to see if the overflow to stream can be dispensed with**. The reason for the overflow is to prevent wastewater flooding of Bimeda, an industrial premises on Airton Road.

(iv) For SDCCSWO04, 05a, 05b, 08, 11, and 12 provide dates for decommissioning of these overflows/cessation of discharges

Response
SDCCSWO04 – Avonmore Road
Avonmore Est.
The new Avonmore Foul Sewer fully removed the need for this overflow. The decommissioning was undertaken during April 2008 and is complete

SDCCSWO05a & b – Brookfield Cottage
The overflows at Brookfield Cottage are required until such time as the FS on Orchard Lane can be directed into the head of the new Watery Lane FS. This is being investigated in relation to the works programme.

SDCCSWO08 – Castleview Road / Watery Lane
The old main to which this overflow is attached now has a new storm overflow connected to the latest FS which was constructed by Direct Labour Division. Full decommissioning of the overflow should now be feasible however it will be necessary for the Area Drainage Inspector to monitor this during heavy weather to verify for certain that the new situation offers full relief before going ahead with decommissioning.

SDCCSWO11 – Springfield Avenue
The overflow at Springfield Avenue was temporarily sealed in December 2007, however in May 2008, a blockage occurred on the Foul Sewer resulting in an adjacent manhole surcharging. South Dublin County Council is currently looking a retaining this overflow, however, routine flushing of this main together with an improvement in the design of the overflow are being addressed.

SDCCSWO12 – Loretto Terrace
This overflow is currently temporarily sealed with a view to assessing the possibility of decommissioning.

(2) Attachment B.5
Hardcopy drawings / maps have been attached of the stormwater / emergency overflow points associated with the wastewater works.

(3) Section B.10

"B.10 Capital Investment Programme

State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding, (local or national), allocated to the capital project. Provide details on the extent and type of work to be undertaken and the likely timeframes for this work to be completed.

***Attachment B.10** should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place."*

Attachment included	***Yes***	***No***
Documents from SDCC Infrastructural Project Tracking System. Also refer to GDSDS ***Preamble to Capital Works Programme 2008-2010*** ***Capital Works Programme 2008-2010***	***YES***	

Response
Attachments were included in the previous documentation, however these were submitted under Section G of the Application Form. The South Dublin County Council "3 Year Capital Investment Programme 2007 -2009" and the "SDCC Capital Infrastructural Projects 30/11/07" update have now been included in Section B.10.

The Preamble to Capital Works Programme 2008-2010 and the Capital Works Programme 2008-2010 has now been attached.

The Greater Dublin Strategic Drainage Study has been attached to the overall application by Dublin City Council and is available on the Dublin City Council's website.

Section C – South Dublin County Council

Provide details of the following:

- *Number of duty and standby pumps at each pumping station*
- *The measures taken in the event of power failure*
- *Details of storage capacity at each pump station*
- *Design criteria and construction for each storm water overflow, where applicable*

Response

Table Attached – SDCC Drainage Pump Stations – Mech Details – Section C
Also See Section C file on disk

Section E – South Dublin County Council

(i) Clarify whether all pump stations overflows are operated in emergency circumstances only or under any other circumstances

Response

The majority of pumping stations operated by South Dublin County Council operate only in emergency situations. Emergency overflows are very rare and normally due to catastrophic failure of the pump station. South Dublin County Council has put in place necessary supervision and telemetry alarm systems on all pump stations to ensure early detection of problems, so that such problems can be rectified prior to overflow situations. Supervision is carried out daily and the telemetry alarm signal is sent by phone / sms to the area drainage inspector or a deputy inspector in the event a pump failure of a high level sump alarm being activated. This is done on a 24/7 basis. An emergency crew on-call system is in place which also operates 24/7.

Ballymanagan Pump Station (SDCCPS07), Newcastle Ejector(SDCCPS08) / Newcastle Pump Station(SDCCPS09) and Rathcoole (Tay Lane) Pump Station(SDCCPS10) are occasionally prone to storm overflow situations. This occurs during prolonged heavy rain events and is due to infiltration of surfacewater into the foul sewers feeding the pumping stations. During such heavy rainfall events the capacity of the pumping station is compromised resulting in overflow situations. (In the case of the Newcastle Pumping Station, however, additional storage capacity of c.1125cu.m is available prior to any overflow scenario).

(ii) Provide an explanation for the frequency of discharge at SDCCPS9a and 10a and any mitigation measures proposed

Response
Newcastle Pump Station(SDCCPS09) and Rathcoole (Tay Lane) Pump Station(SDCCPS10) are occasionally prone to storm overflow situations. This occurs during prolonged heavy rain events and is due to infiltration of surfacewater into the foul sewers feeding the pumping stations. During such heavy rainfall events the capacity of the pumping station is compromised resulting in overflow situations. In the case of the Newcastle Pumping Station, however, additional storage capacity of c.1125 cu.m is available prior to any overflow scenario. The stated overflow rate in Annex 1 of <5 days/years relates to overflow from the pumping station into the attenuation holding tank. Overflow from this tank to the adjacent watercourse occurs less often.

(iii) Complete sections E.2 and E.3 for Phosphorous Regulations, Dangerous Substances Regulations and Water Framework Directive monitoring

E.2. Monitoring and Sampling Points

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as Attachment E.2.

Reference should be made to, provision of sampling points and safe means of access, sampling methods, analytical and quality control procedures, including equipment calibration, equipment maintenance and data recording/reporting procedures to be carried out in order to ensure accurate and reliable monitoring.

In determining the sampling programme to be carried out, the variability of the emission and its effect on the receiving environment should be considered.

Details of any accreditation or certification of analysis should be included.

Attachment E.2 *should contain any supporting information.*

Attachment included	**Yes**	**No**
Excel Spreadsheets have been included providing details of sampling points and monitoring locations – South Dublin. The points refer in the main to Phosphorous monitoring, Dangerous Substances monitoring and Water Framework Directive monitoring and not specifically to monitoring of overflow locations. Due to the occasional and intermittent nature of the overflow discharges the discharge locations are not sampled specifically for the purposes of the Wastewater Discharge (Authorisation) Regulations.		

E.3. Tabular data on Monitoring and Sampling Points

Applicants should submit the following information for each monitoring and sampling point:

PT_CD	***PT_TYPE***	***MON_TYPE***	***EASTING***	***NORTHING***	***VERIFIED***
Point Code Provide label ID's assigned in section E of application	*Point Type (e.g., Primary, Secondary, Storm Water Overflow)*	*Monitoring Type M = Monitoring S = Sampling*	*6E-digit GPS Irish National Grid Reference*	*6N-digit GPS Irish National Grid Reference*	*Y = GPS used N = GPS not used*

An individual record (i.e., row) is required for each discharge point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, D.2 and F.2.

Response

Section Table E.3 attached

Section F – South Dublin County Council

Provide an assessment of the impact of storm water overflows in the agglomeration with reference to any available receiving water monitoring data and any other relevant data available. Identify any storm water overflows that may be causing surface water quality problems.

South Dublin has 15No. Storm Water Overflows (F/S to S/W connections), 13No. Pumping Station Emergency Overflows (Additional 1No. Planned), and 1No Siphon Overflow.

The majority of pump station overflows in South Dublin operate only in emergency situations. Emergency overflows are rare and normally due to catastrophic failure of the pump station. South Dublin County Council has put in place necessary supervision and telemetry alarm systems on all pump stations to ensure early detection of problems, so that such problems can be rectified prior to overflow situations. Supervision is carried out daily and the telemetry alarm signal is sent by phone / sms to the area drainage inspector or a deputy inspector in the event a pump failure of a high level sump alarm being activated. As stated in Section E, a small number of pumping stations do overflow on occasion. These pumping station, operate satisfactorily under normal circumstances, however, in prolonged periods of heavy rain they are prone to occasional overflows. Due to the fact that these overflows occur during periods of heavy prolonged rainfall, the affected watercourses are also in peak flow, thus their assimilative capacity is increased.

In relation to the 15No. Storm Water Overflows, South Dublin County Council is in the process of examining the possibility of decommissioning SDCCSWO03(Airton Road), SDCCSWO05(Brookfield Cottage – 1 of 2), SDCCSWO08(Castle View Rd / Watery Lane), SDCCSWO11(Springfield Avenue) and SDCCSWO12 (Loreto Tce). **SDCCSWO04(Avonmore Rd) was permanently decommissioned during April 2008).** In relation to decommissioning these overflows, South Dublin County Council, will in the first place, put temporary seals on them for a period of 12-18 months to assess the feasibility of decommissioning them permanently. In addition, the area drainage inspectors will monitor all overflows on an ongoing basis to assess the frequency of overflows and impacts of overflows on watercourses.

In relation to assessing the impact of storm water overflows in the agglomeration with reference to any available receiving water monitoring data and any other relevant data available, the data from phosphorous monitoring, dangerous substances monitoring and water framework directive monitoring does not provide evidence that storm water overflows in the agglomeration are impacting adversely on water quality.

Section G – South Dublin County Council

Provide a full response to Section G of the Application form. Separate answers for each of Section G.1, G.2, G.3 and G.4 are required. Your response shall give details of the improvements proposed for the South Dublin portion of the Ringsend agglomeration only. Your response shall specifically give details of the following:

- *The improvement planned*
- *The specific discharges it will affect*
- *The completion date*
- *The source of funding, and*
- *A description and quantification of the expected improvements with respect to relevant standards and legislation.*

SECTION G: PROGRAMMES OF IMPROVEMENTS

Advice on completing this section is provided in the accompanying Guidance Note.

G.1 Compliance with Council Directives

Provide details on a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of; the Dangerous Substances Directive 2006/11/EC, the Water Framework Directive 2000/60/EC, the Birds Directive 79/409/EEC, the Groundwater Directives 80/68/EEC & 2006/118/EC, the Drinking Water Directives 80/778/EEC, the Urban Waste Water Treatment Directive 91/271/EEC, the Habitats Directive 92/43/EEC, the Environmental Liabilities Directive 2004/35/EC and the Bathing Water Directive 76/160/EEC.

Attachment G.1 *should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.*

Attachment included	***Yes***	***No***
Preamble to Capital Works Programme 2008-2010		
Capital Works Programme 2008-2010		

Response.

See Attachment on hard file and electronic file for ***Preamble to Capital Works Programme 2008-2010 & Capital Works Programme 2008-2010***. Please refer to Programme 3 for all Drainage Capital projects.

Separate implementation reports are due for completion in June 2008 in accordance with the Dangerous Substances Regulations and Phosphorous Regulations. These reports will be submitted to the EPA by the statutory due date of 22nd June 2008.

South Dublin County Council has not identified specific measures for waste water works in previous measures / implementation reports however, measures have been implemented in the form of routine inspections of waste water works and in particular daily inspection of pumping stations. Telemetry alarm systems have been installed in all pumping stations which alert staff to breakdowns and high sump levels. Pumping Station performance can also be viewed remotely by inspectors via laptops. The telemetry systems have backup systems in the event of power failures.

A Project Management System(PMS) is being rolled out which will improve reporting of pumping station inspections and maintenance. This PMS system is an on-line system which will facilitate better reporting to the EHLG and EPA.

G.2 Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No. 258 of 1998).

Provide details on a programme of improvements, including any water quality management plans or catchment management plans in place, to ensure that improvements of water quality required under the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) are being achieved. Provide details of any specific measures adopted for waste water works specified in Phosphorus Measures Implementation reports and the progress to date of those measures. Provide details highlighting any waste water works that have been identified as the principal sources of pollution under the P regulations.

Attachment G.2 *should contain the most recent programme of improvements and any associated documentation requested under Section G.3 of the application.*

Attachment included	***Yes***	***No***
Preamble to Capital Works Programme 2008-2010 ***Capital Works Programme 2008-2010*** ***Phosphorous Report 2006***		

Response

The implementation report under the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) is due for completion in June 2008. This reports will be submitted to the EPA by the statutory due date of 22nd June 2008.

Wastewater works in South Dublin County Council have not heretofore been identified as principal sources of pollution under the P Regulations. South Dublin County Council has no primary discharges. In addition, identified overflows do not discharge continuously and act only as emergency or storm overflows. The occasional discharges that do happen, occur when the assimilative capacity in receiving watercourses is at maximum. These overflows do not occur under normal circumstances.

South Dublin County Council has not identified specific measures for waste water works in the previous Phosphorus Measures Implementation reports however, measures have been implemented in the form of routine inspections of waste water works and in particular daily inspection of pumping stations. Telemetry alarm systems have been installed in all pumping stations which alert staff to breakdowns and high sump levels. Pumping Station performance can also be viewed remotely by inspectors via laptops. The telemetry systems have backup systems in the event of power failures.

G.3 Impact Mitigation

Provide details on a programme of improvements to ensure that discharges from the agglomeration will not result in significant environmental pollution.

Attachment G.3 *should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.*

Attachment included	***Yes***	***No***

Response

Ongoing routine maintenance by both the Drainage Maintenance Section and Mechanical Section ensures that discharges from the agglomeration do not result in significant environmental pollution. South Dublin County Council operates a 24/7 on-call drainage service whereby chokes and blockages on the system, that cause surgharging of the mains or overflows are dealt with as efficiently as possible. Alarm systems on the pumping stations allow for early detection of problems thus allowing time for both Mechanical and Drainage Crews to act. The move from manual recording of daily inspections and maintenance of pumping stations from diary application to the on-line PMS application will improve the reporting of these facilities and their performance to the EHLG and EPA.

The Capital Works Programme 2008-2010 give details of ongoing works to pump stations, of a capital nature. This includes pumps replacements / improvements and other significant plant additions and or replacements.

G.4 Storm Water Overflow

Provide details on a programme of improvements to ensure that discharges other than the primary and secondary discharges comply with the definition of 'storm water overflow' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007.

***Attachment G.4** should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.*

Attachment included	***Yes***	***No***

Storm Water Overflow – means a structure or device on a sewerage system designed and constructed for the purpose of relieving the system of excess flows that arise as a result of rainwater or melting snow in the sewered catchment, the excess flows being discharged to receiving waters.

All wastewater treatment works discharges in South Dublin County Council comply with the definition of "storm water overflow" except those discharges caused as a result of pump station failures(emergency overflows). As stated in B.5 above, a number of storm water overflows are being examined with a view to decommissioning a number of them. Since the application process commenced one overflow has been decommissioned (SDCCSWO04). Another few may potentially be decommissioned, however, they must be monitored prior to a final decision. These overflows are in place to prevent flooding of dwellings and subsequent claims / public health issues, therefore care must be exercised in allowing for any decommissions. The potential to remove some of these overflows presents itself due to various upgrades to the system that have occurred in recent years. The design of all storm water overflow will be examined with a view to improving them where necessary. A programme is not available for this yet, however with less than 20 such overflows it is envisaged this could be done in late 2008 / early 2009.

SECTION A: NON-TECHNICAL SUMMARY

Advice on completing this section is provided in the accompanying Guidance Note.

A non-technical summary of the application is to be included here. The summary should identify all environmental impacts of significance associated with the discharge of waste water associated with the waste water works. This description should also indicate the hours during which the waste water works is supervised or manned and days per week of this supervision.

The following information must be included in the non-technical summary:

A description of:

- the waste water works and the activities carried out therein,
- the sources of emissions from the waste water works,
- the nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment,
- the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the waste water works,
- further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused;
- measures planned to monitor emissions into the environment.

Supporting information should form **Attachment Nº A.1**

Non Technical Summary of South Dublin County Council Drainage Department Infrastructure

Drainage Departments

(a) Drainage Maintenance and Operations

The Drainage Maintenance and Operations Section is based at Deansrath Depot, Clondalkin. This Section is responsible for the South Dublin County Council Drainage System which comprises approximately 1,400 km of foul and surface water public sewers.

The drainage system in modern housing estates, comprise two separate systems - a foul drainage system and a surface water system. The foul drainage system is designed to collect wastewater from toilets and also from wash-hand basins, sinks, washing machines and dishwashers. All this effluent is transported via piped systems to the wastewater treatment plant at Ringsend.

The surface water system is designed to channel stormwater (rainwater) to the nearest suitable river. Rivers and streams are natural surface water channels.

The drainage system in some older estates have a single system, 'combined sewerage system', where foul drainage and surface water enter the same pipes and everything is transported through the trunk piped system to the wastewater treatment plant at Ringsend.

South Dublin County Council is also an active participant in the Greater Dublin Strategic Drainage Study (GDSDS). The GDSDS was set up in 2001 to analyse the existing drainage system in the Greater Dublin Area and to make recommendations on future drainage practices. Dublin City Council (DCC) is the Contracting Authority acting on behalf of Fingal, South Dublin, Dun Laoghaire Rathdown, Meath, Kildare and Wicklow County Councils. The GDSDS recommendations (Insert link) were presented in 2005 and have been adopted by South Dublin County Council.

- **Services:**

Drainage Maintenance Section provides the following services:

- Non-emergency drain clearing service, this service is operable during normal working hours. The Council provides clearances of blocked drains at a charge
- Septic Tank cleaning
- Provision of connections to public sewers

- Removal of failed intercepting traps

South Dublin County Council Drainage Maintenance Section carries out cleaning of Rivers/Streams as part of the annual river/stream cleaning programme. This involves removing obstructions, vegetation from the channel of the watercourse to provide for free flow, most particularly in times of heavy rainfall.

(b) Drainage Design and Planning

The Drainage Design Section is responsible for the design of major drainage schemes to facilitate the development of land for housing, industrial and commercial uses in the County area.

The section liaises with the Department of the Environment, Heritage and Local Government (DoEHLG) and the adjoining Local Authorities in the delivery of the new drainage infrastructure.

The major drainage schemes are part funded by the DoELG either by way of capital grants or through Serviced Land Initiative. The balance of funding is collected by the Council through Development Levies on planning permissions.

The section advises the Council on Planning Matters including:

- The drawing up the Development Plan.
- Identification of Future Infrastructural Capital Requirements- as in the Draft Assessment of Needs 2007-2012.
- The preparation of the Drainage Reports for Planning Applications and reports for Compliance and Appeals.
- Preplanning discussions on Major developments in conjunction with other departments.
- The preparation of the Development Contribution Scheme.
- The section also provides a counter service for investigation of the available infrastructure for individual developments.
- The section represents the Council on the Regional Strategy Studies for the development of Water and Drainage infrastructure.
- The section is responsible for record keeping for Surface Water and Drainage infrastructure.

(c) The Mechanical Section

Drainage Pumping Stations.

The Mechanical Section is responsible for the mechanical / electrical maintenance of all Drainage Pumping Stations within the county. Such maintenance may include the repair

of Pumps, Penstocks, Shut-Off Valves, Gas Detection and Reflux valves. The Mechanical Section also has in input into the design of new pumping stations, specifying requirements on health & safety grounds, plus new CIRA and SDCC Mechanical Section Pumping Station standards, e.g. EX rated lighting, Control Rooms, Lift Gantry's, Valve Actuators, Motor Inverters, Technocover style access covers.

Stations/Siphon Chambers.

Types: Drywell, Submersible (with Control Room), Submersible (with Kiosk).

There are presently 21 Drainage Pumping Stations within the county;

Existing Drainage Pumping Stations	Type
Ard Mor	Submersible-Control Room
Ballmanagin Pumping Station	Submersible-Control Room
Belgard Fire Station Pumping Station	Submersible-Control Room
Dangan Park Pumping Station	Submersible-Kiosk
Esker Pumping Station	Drywell
Grangecastle Pumping Station	Drywell
Johnstown (Palmerstown) Pumping Station	Drywell
Kings Hospital Pumping Station	Submersible-Control Room
Kishogue Pumping Station	Submersible-Control Room
Lucan Low Level Pumping Station	Drywell
Lucan Spa Pumping Station	Submersible-Control Room
Lynch's Lane Pumping Station	Submersible-Control Room
Newcastle Ejector Pumping Station	Submersible-Control Room
Newcastle Pumping Station	Drywell
Perrystown/Kimmage Storm Tank	Submersible-Kiosk
Quarryvale Pumping Station	Drywell
Rathcoole (Tay Lane) Pumping Station	Submersible-Control Room
Spawell Pumping Station	Submersible-Kiosk
St. Brigid's Cottages Pumping Station	Submersible-Control Room
Whitehall Pumping Station	Submersible-Control Room
College Green	Submersible-Control Room

With a further 3 proposed at

Future Drainage Pumping Stations	Type
Garter Lane (Saggart) Pumping Station	Submersible-Kiosk
Peamount Pumping Station	Drywell
Tobermaclugg	Drywell

There are also 5No. siphon chambers (4No. are on the Dodder Valley Sewer Line – 2No. of which are in the Dun Laoighaire Rathdown County Council jurisdiction - Belfield and Milltown. These are owned by SDCC but maintained by agreement by DLRDCC).

The siphon chamber at the Liffey in Lucan has a muncher unit which "chops up" all rags, cloths etc before entering the siphon.

The Saggart flowmeter is located on the site of the old Saggart Sewerage Treatment Works, and is merely flow monitoring purposes on that sewer main.

Other:	
Belfield (UCD) Siphon Chamber	*Dodder Valley Line (DLR)*
Kilvere (Tempelogue) Siphon Chamber	Dodder Valley Line
Milltown Siphon Chamber	*Dodder Valley Line (DLR)*
Owendoher Siphon Chamber	Dodder Valley Line
St. Ed's (Lucan)	Muncher Unit at Liffey Siphon
Saggart Flowmeter Chamber	Flowmeter Chamber

Standards.

- *PLC (Programmable Logical Controller) control in conjunction with SCADA (System Control and Data Acquisition) HMI (Human Machine Interface).*
- Control Room (Not applicable to Submersible Kiosk Type Stations)
- Ex-Rated Lighting.
- *Actuators on all valves (above Ø100mm) and penstocks.*
- *Flap Type Reflux Valves.*
- *Fixed Wall Gas Detection (Drywell stations only).*
- Air Extraction (Drywell stations only).
- *Magmaster Type Flowmeters.*
- *Pressure Transducers.*
- *Lift Gantry.*
- *Technocover Type Access Covers.*
- *Motor Inverters.*
- *Odour Control Unit.*
- *Standby Generator.*

Problems.

- *Pump Clogging.*
- *Reflux Valve jamming.*
- *Gasket Leaks.*
- *Gas Sensors.*
- *Pump Electrics – Inverters, Soft Starters, Power Factor Correction, Motor Diagnostics Unit, Relays, Timers, Buss Bars, Contactors, etc.*

"Storm Water Overflow" means a structure or device on a sewerage system designed and constructed for the purpose of relieving the system of excess flows that arise as a result of

rain water or melting snow in the sewered catchment, the excess flow being discharged to receiving waters.

South Dublin County Council sewerage network has a total of 28 Overflows. 13 of these are associated with Pumping Stations and other infrastructure and strictly speaking are not for the purposes of relieving the system of excess stormwater flows, but rather are emergency overflows that would become active only in the event of a catastrophic failure of the pumping station.

Pumping stations are inspected on a daily basis by Drainage Inspectors. In addition, each pumping station has been set up with sump level alarms, linked by telemetry to both head office and to Deansrath / Ballymount Depots. The telemetry system can be viewed via web-based link and controlled likewise. Pump trends can show if a pump is likely to choke / fail and measures can be put in place with immediate effect. In the event a failure does occur, both Drainage Crews and Mechanical Crews are on 24 hour emergency call-out.

As a result of daily inspections and telemetry, overflows from Pumping Stations rare. In most cases, overflows would occur less than once per year.

The other 15 overflows are generally for relieving the system of excess flows where surcharging due to a lack of capacity in the main causes a risk of flooding to properties and thus create public health issues. Where an overflow is not in place for reasons of excess stormwater flows, it is in place where a foul main chronically blocks due to deficiencies in the infrastructure.

Pumping Stations, Siphons and Overflow Points

No	Pumping Stations	Overflow	Frequency	Station Coordinates	Overflow Coordinates	Comments
SDCCPS01	Lucan Spa PS	SDCCPS01a	<2 Day/Year	302512E 235037N	302515E 235034N	Emergency
SDCCPS02	Lucan Low Level PS	SDCCPS02a	<5 Day/Year	303292E 235043N	303235E 235044N	Emergency
SDCCPS03	Esker PS	SDCCPS03a	<1 Day/Year	304039E 234487N	303875E 234405N	Emergency
SDCCPS04	Quarryvale PS	SDCCPS04a	<2 Day/Year	311558E 228031N	306895E 235460N	Emergency
SDCCPS05	Johnstown PS	SDCCPS05a	<2 Day/Year	308661E 234297N	309028E 234535N	Emergency
SDCCPS06	Grange Castle PS	SDCCPS06a	<1 Day/Year	303147E 232089N	303169E 232123N	Emergency
		SDCCPS07a	<2 Day/Year	306930E 232203N	306857E 232329N	Emergency
SDCCPS07	Ballymanagan PS	SDCCPS07b	<2 Day/Year		306984E 232196N	
SDCCPS08	Peamount PS	SDCCPS08a	<2 Day/Year		299989E 228968N	Emergency
SDCCPS09	Newcastle PS	SDCCPS09a	<5 Day/Year		301289E 228850N	Emergency
SDCCPS10	Tay Lane PS	SDCCPS10a	<10 Day/Year	301903E 226888N	301891E 226888N	Emergency
SDCCPS11	Whitehall PS	SDCCPS11a	<2 Day/Year	312356E 229592N 311558E 228031N	312242E 229789N	Emergency
SDCCPS12	Spawell PS	N/A – 3 Dwellings	N/A		N/A	3 Dwellings
SDCCPS13	King's Hospital PS	N/A	N/A	307703E 235433N	N/A	
SDCCPS14	Lynches Lane PS	N/A – Halting Site	N/A	304464E 232587N	N/A	Halting Site –

						New PS under construction
SDCCPS15	Kishogue PS	N/A – Halting Site	N/A	304746E 232824N	N/A	Halting Site
SDCCPS16	St Brigids PS	N/A – 6 Dwellings	N/A	308075E 230745N	N/A	6 Dwellings
SDCCPS17	Belgard PS	N/A – Fire Station	N/A	307886E 229784N	N/A	Fire Stn
SDCCPS18	Fortunestown PS	N/A	N/A	305675E 227637N	N/A	
SDCCPS19	College Drive	N/A	N/A	313203E 229615N	N/A	Private
SDCCPS20	Dangan Park PS	Surface Water	N/A		N/A	S/W only
SDCCPS21	Tobermaclugg					Under Construction

Siphons

SDCCSN01	Lucan Siphon (Liffey) - St Eds Muncher	SDCCSN01a	<2 Day/Year	303847E 235788N	303847E 235788N	Emergency
SDCCSN02	Templeogue Siphon (Dodder)	N/A	N/A	313024E 228608N	N/A	
SDCCSN03	Owendoor Siphon	N/A	N/A	314115E 229027N	N/A	
Ref DLRDCC	UCD (Belfield) Siphon	DLRDCC	DLR station	318145E 230512N		DLRDCC
Ref DLRDCC	Ringsend Siphon	DLRDCC	DLR station	320905E 233647N		DLRDCC

Overflows

Ref DLRDCC	Milltown Overflow	DLRDCC	DLR station	N/A	316531E 229997N	DLRDCC
SDCCSWO01	Perrystown Tank	SDCCSWO01	<1 Day/Year	N/A	312769E 230249N	Emergency
SDCCSWO02	Treepark Road	SDCCSWO02	<5 Day/Year	N/A	309733E 229573N	
SDCCSWO03	Airton Road	SDCCSWO03	<5 Day/Year	N/A	309275E 228129N	
SDCCSWO04	Avonmore Road	SDCCSWO04	<5 Day/Year	N/A	310513E 227144N	
SDCCSWO05	Brookfield Cottage	SDCCSWO05a		N/A	307108E 231571N	
		SDCCSWO05b	<5 Day/Year		307052E 231534N	
SDCCSWO06	Harris Trucks	SDCCSWO06	<5 Day/Year	N/A	310016E 231782N	
SDCCSWO07	St Peter's Road	SDCCSWO07	<5 Day/Year	N/A	311402E 230544N	
SDCCSWO08	Castle View Road	SDCCSWO08	0 Day/Year	N/A	307320E 231706N	
SDCCSWO09	Aylmer Road	SDCCSWO09	<5 Day/Year	N/A	306989E 232309N	
SDCCSWO10	Kimmage Road West	SDCCSWO10	<5Day/Year	N/A	313333E 230418N	
SDCCSWO11	Springfield Avenue	SDCCSWO11	<2 Day/Year	N/A	313912E 228931N	
SDCCSWO12	Loretto Terrace	SDCCSWO12	<5 Day/Year	N/A	314672E 228460N	
SDCCSWO13	Oldcourt Manor	SDCCSWO13	<5 Day/Year	N/A	310134E 226024N	
SDCCSWO14	Stewarts Hospital	SDCCSWO14	<5 Day/Year	N/A	308818E 234951N	

Monitoring:

(a) River Monitoring

Dangerous Substances Monitoring

- 17 Monitoring Locations

  Liffey(3), Griffeen(3), Camac(3), Brittas(2), Dodder(3), Owendoher(2) & Poddle(1)

- 100% Compliance (2007)
- DCC laboratory
- Next Report to EPA due in June 2008

Phosphorous Monitoring

- 17 Monitoring Locations:

  Liffey(1), Griffeen(3), Camac(3), Brittas(2), Dodder(5), Owendoher(3)

- 100% Compliance (2007)
- DCC laboratory
- Next Report to EPA due in June 2008

Water Framework Directive Monitoring

- The WFD river monitoring programme is continuing with:
  - Quarterly monitoring of:
    - 1No. Surveillance Site (EPA)
    - 18No. Operational Sites
      - Brittas(1), Camac(3), Dodder(4), Liffey(4), Owendoher(3) & Poddle(1)
      - Glenasmole(2)
      - Consultation with DCC / Fingal and KCC

(b) Transboundary Monitoring

SDCC Main Trunk Sewerage Systems

Flow Monitor Catchment Areas (relevant to SDCC)
(refer to map in file "PermanentFlowMonitorCatchmentsforBilling_075412001MI.pdf")

NAME	Area(hectares)		Location	Sewer	Pipe
FM03	95		Chapelizod	SDCC	375
FM04	22	Straw'beds	Chapelizod	SDCC & FCC	450
FM06	118		Irishtown	City centre sewer	2500
FM08	2775		Ringsend	Grand Canal Tunnel	2600
FM09	5080		Ringsend	Flows 6 pumps MLPS	N/A
FM10	2101	DVS	Clonskeagh	SDCC and DLRDCC	1500
FM11	2435	9B	Naas Rd	9B Sewer	1350
FM12	49		Kimmage	SDCC	300
FM13	2032	DVS	Rathfarnham	SDCC	1500

(a) The 9B Trunk Sewer Catchment - FM11

The 9B truck sewer serves the towns of:

- Lucan, Ronanstown, Cherry orchard and Clondalkin
- Fox and Geese, Bluebell and Walkinstown
- Newcastle, Rathcoole and Saggart

The area in the Liffey Valley catchment is served by five significant pumping stations. All flows are delivered to the 9B Truck sewer. The exceptions are the combined flows from Lucan old village plus any spill flows from the overflow at Lucan low level pumping station which are passed through a siphon under the River Liffey to the Strawberry Beds Sewer which drains to the City Centre catchment.. Flows from Lucan, Quarryvale and Cherry Orchard in the Liffey Catchment are pumped to a high level sewer serving Clondalkin and the remainder of the area, which lies in the Camac Catchment.

The West of Clondalkin gravitates to the 9B Trunk Sewer. Ballymount Ind Est and Kingswood connect to into the truck main at Naas Rd. Cherry Orchard and Park West discharge into the 9B Truck sewer network. Camac Valley Truck Sewer has its head at the Old Saggart WwTW (serving Rathcoole, Newcastle and Saggart) and this discharges to the 9B. Citywest discharges to the 9B trunk sewer at Clondalkin via its own truck sewer. The 9B truck sewer from Clondalkin follows the valley of the River Camac as far as Blackhorse Bridge and then along Davitt Road and Dolphin Road to the Head of the Grand Canal Truck Sewer at Herberton Bridge.

Flow Measurement
DCC Flowmeter (FM11) at Naas Road.

SDCC Input

Flow Monitor Catchment FM11 - 2435 hectares of development lands.

(b) Main Lift Pumping Station FM09

There are three major trunk sewer which connect to the MLPS. The Rathmines and Pembroke (R&P) High Level, City Centre, Grand Canal Trunk Sewer. Also East Road Pump Station.

SDCC Input

- The 9B flows into the head of the Grand Canal Truck Sewer – FM11 - 2345 hectares (Flowmeter FM11 at Bluebell)
- SDCC flows into the High Level Rathmines and Pembroke occur during storm events. Kimmage Catchment (FM12 - 49 hectares) drains to Grand Canal Trunk Sewer. (Flowmeter FM12 at Kimmage KCR)
- Strawberry Beds Sewer flows into the City Centre FM04 - 22 hectares (Flowmeter FM04 at Chapelizod)
- Palmerstown Catchment flows into City Centre FM03 – 95 hectares. (Flowmeter FM03 at Palmerstown) (300mm foul sewer)
- FM08 – 340 Hectares

(c) Dodder Valley Sewer (FM13)

The Dodder Valley Sewer SDCC Catchment drains the suburbs of Jobstown, Tallaght, Oldbawn, Firhouse, Greenhils, Kilnamanagh, Ballyboden and Rathfarnham.. The sewer has a diameter of 825mm in the upper reaches and a downstream diameter of 1500mm

SDCC input

Flow Monitor Catchment FM13 – 2032 hectares of development lands.
Small proportion of FM10 may also be SDCC – (FM10 - 2101 hectares less FM13 – 2032 hectares = 69 hectares)

Flow Measurement

Flowmeter FM13 at Rathfarnham (SDCC boundary) and further downstream FM10 at DLRDCC / DCC boundary.

(d) Transboundary Flows

South Dublin County Council is charged by Dublin City Council for conveyance, reception and treatment of all effluent from the county. The charge is based on quantity and quality of effluent (i.e. volume and BOD). Currently there are 12 transboundary points being sampled for BOD content (SD01 to SD12).

Dublin City Council has flowmeters installed at:

- **FM03 – Lucan Rd**
- **FM04 – Belgrove lawn**
- **FM08 – Walkinstown/Templeogue (This meter is at Irishtown)**

- **FM11 – Naas Rd**
- **FM12 - Kimmage Road/Ravensdale Park**
- **FM13 – Dodder Valley**

Measures Ongoing & Planned

- The pumping stations are inspected on a daily basis by Drainage Inspectors however the individual storm water overflows are checked less often. It is intended to include for all Overflows (Emergency / Stormwater) in the 2008 Inspection plan under RMCEI.
- It may be possible to decommission some of the overflows as foul sewer duplications have since been carried out. A review will be completed in 2008 to identify Stormwater overflows for decommissioning.
- It is intended to install flowmeters at strategic points of the system to investigate infiltration of surfacewater / groundwater into the system which impacts significantly on capacity
- It is intended to commence a Fats,Oils and Grease (FOG) programme of licensing food service establishments. FOG is one of the main reasons for sewer blockages.
- It is intended to carry out an awareness campaign regarding proper use of the drainage system.
- A program of significant works has been included in Section G. In addition to this, South Dublin employs a Direct Labour crew who carry out works across the county such as fouls sewer duplications, new works, improvement works etc. Their program of works has also been included in Section G.
- The telemetry and scada monitoring and alarm systems and constantly being improved and upgraded.

Section B - South Dublin County Council

(1) Section B.5

(i) For SDCCPS07b, the application states that this discharge is to cease in 2008, clarify whether the pumping station is to close or alternative measures proposed and clarify the date of cessation/decommissioning of the discharge.

Response

This overflow relates to the Ballymanagin Pumping Station. It is not intended to close or decommission this pumping station. From Drawing number SDCC PS 07 of the Article 16 Response it can be seen that there are two overflows on the inlet to the Pumping Station. It is intended to decommission one of these (SW22aSouthDublin).

(ii) For SDCCPS10a, clarify the type of discharge (e.g. an emergency discharge from the pump station, a discharge direct from a foul sewer caused by insufficient capacity, a storm water overflow etc.

Response

SDCCPS10a relates to an emergency discharge from the Tay Lane Pumping Station.

(iii) For SDCCSWO03, provide confirmation that this overflow has been decommissioned

Response

Airton Road

The FS that Bimeda discharges to has an overflow to the FS on the opposite side of the road (overflow from FS to FS). This overflow did not prevent sewer overflow at Bimeda. It is believed that this overflow failed to function when the FS to which it was connected surcharged (both FS in surcharge). Drainage Maintenance Division constructed an overflow from Bimeda`s connection to an adjacent stream (Priory Stream). The new Airton Road FS disconnected the original FS to FS overflow and directed it into the new pipeline. **This new scenario needs to be monitored to see if the overflow to stream can be dispensed with**. The reason for the overflow is to prevent wastewater flooding of Bimeda, an industrial premises on Airton Road.

(iv) For SDCCSWO04, 05a, 05b, 08, 11, and 12 provide dates for decommissioning of these overflows/cessation of discharges

Response

SDCCSWO04 – Avonmore Road

Avonmore Est.

The new Avonmore Foul Sewer fully removed the need for this overflow. The decommissioning was undertaken during April 2008 and is complete

SDCCSWO05a & b – Brookfield Cottage

The overflows at Brookfield Cottage are required until such time as the FS on Orchard Lane can be directed into the head of the new Watery Lane FS. This is being investigated in relation to the works programme.

SDCCSWO08 – Castleview Road / Watery Lane

The old main to which this overflow is attached now has a new storm overflow connected to the latest FS which was constructed by Direct Labour Division. Full decommissioning of the overflow should now be feasible however it will be necessary for the Area Drainage Inspector to monitor this during heavy weather to verify for certain that the new situation offers full relief before going ahead with decommissioning.

SDCCSWO11 – Springfield Avenue
The overflow at Springfield Avenue was temporarily sealed in December 2007, however in May 2008, a blockage occurred on the Foul Sewer resulting in an adjacent manhole surcharging. South Dublin County Council is currently looking a retaining this overflow, however, routine flushing of this main together with an improvement in the design of the overflow are being addressed.

SDCCSWO12 – Loretto Terrace
This overflow is currently temporarily sealed with a view to assessing the possibility of decommissioning.

(2) Attachment B.5
Hardcopy drawings / maps have been attached of the stormwater / emergency overflow points associated with the wastewater works.

(3) Section B.10

"B.10 Capital Investment Programme
State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding, (local or national), allocated to the capital project. Provide details on the extent and type of work to be undertaken and the likely timeframes for this work to be completed.

Attachment B.10 *should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place."*

Attachment included	***Yes***	***No***
Documents from SDCC Infrastructural Project Tracking System. Also refer to GDSDS ***Preamble to Capital Works Programme 2008-2010*** ***Capital Works Programme 2008-2010***	***YES***	

Response
Attachments were included in the previous documentation, however these were submitted under Section G of the Application Form. The South Dublin County Council "3 Year Capital Investment Programme 2007 -2009" and the "SDCC Capital Infrastructural Projects 30/11/07" update have now been included in Section B.10.

The Preamble to Capital Works Programme 2008-2010 and the Capital Works Programme 2008-2010 has now been attached.

The Greater Dublin Strategic Drainage Study has been attached to the overall application by Dublin City Council and is available on the Dublin City Council's website.

SECTION B: GENERAL

Advice on completing this section is provided in the accompanying Guidance Note.

B.1 Applicant's Details*

Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Provide a drawing detailing the agglomeration to which the licence application relates. It should have the boundary of the agglomeration to which the licence application relates clearly marked in red ink.

Name:**	N/A – Dublin City Council to complete
Address:	
Tel:	
Fax:	
e-mail:	

*This should be the name of the water services authority in whose ownership or control the waste water works is vested.

**Where an application is being submitted on behalf of more than one water services authority the details provided in Section B.1 shall be that of the lead water services authority.

Name*:	N/A – Dublin City Council to complete
Address:	
Tel:	
Fax:	
e-mail:	

*This should be the name of person nominated by the water services authority for the purposes of the application.

Co-Applicant's Details

Name*:	South Dublin County Council
Address:	County Hall, The Square, Tallaght, Dublin 24
Tel:	(01) 414 9000
Fax:	(01) 414 9101
e-mail:	cccounter@sdublincoco.ie

*This should be the name of a water services authority, other than the lead authority, where multiple authorities are the subject of a waste water discharge (authorisation) licence application.

Design, Build & Operate Contractor Details

Name*:	N/A – Dublin City Council to complete
Address:	
Tel:	
Fax:	
e-mail:	

*Where a design, build & operate contract is in place for the waste water works, or any part thereof, the details of the contractor should be provided.

Attachment B.1 should contain appropriately scaled drawings / maps (≤A3) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.2, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	**Yes**	**No**

B.2 Location of Associated Waste Water Treatment Plant(s)

Give the location of the waste water treatment plant associated with the waste water works, if such a plant or plants exists.

Name*:	N/A – Dublin City Council to complete
Address:	
Grid ref (6E, 6N)	
Level of Treatment	
Primary Telephone:	
Fax:	
e-mail:	

***This should be the name of the person responsible for the supervision of the waste water treatment plant.

Attachment B.2 should contain appropriately scaled drawings / maps (≤A3) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.1, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	**Yes**	**No**

B.3 Location of Primary Discharge Point

Give the location of the primary discharge point, as defined in the Waste Water Discharge (Authorisation) Regulation, associated with the waste water works.

Type of Discharge	E.g. Diffuser, Lunar Valve, Non-return flap valve etc.
Unique Point Code	N/A – Dublin City Council to complete
Location	
Grid ref (6E, 6N)	

Attachment B.3 should contain appropriately scaled drawings / maps (≤A3) of the discharge point, including labelled monitoring and sampling points associated with the discharge point. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing the drawings and tabular data requested in sections B.1, B.2, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No

B.4 Location of Secondary Discharge Point(s)

Give the location of **all** secondary discharge point(s) associated with the waste water works. Please refer to Guidance Note for information on Secondary discharge points.

Type of Discharge	E.g. Diffuser, Lunar Valve, Non-return flap valve etc.
Unique Point Code	N/A – Dublin City Council to complete
Location	
Grid ref (6E, 6N)	

Attachment B.4 should contain appropriately scaled drawings / maps (≤A3) of the discharge point(s), including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No

B.5 Location of Storm Water Overflow Point(s)

Give the location of **all** storm water overflow point(s) associated with the waste water works.

Type of Discharge	Lucan Spa Pumping Station overflow
Unique Point Code	SDCCPS01a
Location	Lucan
Grid ref (6E, 6N)	302512E 235037N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Lucan Low Level, Pumping station overflow
Unique Point Code	SDCCPS02a
Location	Lucan Village
Grid ref (6E, 6N)	303292E 235043N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Esker Pumping station overflow
Unique Point Code	SDCCPS03a
Location	Esker, Lucan
Grid ref (6E, 6N)	304039E 234487N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Quarryvale Pumping Station overflow
Unique Point Code	SDCCPS04a
Location	Quarryvale
Grid ref (6E, 6N)	311558E 228031N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Johnstown Pumping Station overflow

Unique Point Code	SDCCPS05a
Location	Johnstown, Palmerstown
Grid ref (6E, 6N)	308661E 234297N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Grangecastle Pumping station overflow
Unique Point Code	SDCCPS06a
Location	Grangecastle Business Park
Grid ref (6E, 6N)	303147E 232089N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Overflow from Ballymanagan Pumping Station. 9” overflow from MH at side of 70 James Connolly Park.
Unique Point Code	SDCCPS07a
Location	Station Road, Clondalkin
Grid ref (6E, 6N)	306989E 232309N
Monitoring / Sample Points associated with discharge point	N/A – There are no monitoring points associated with the discharge point. The Camac River is sampled in accordance with the Phosphorous and DS regs and WFD downstream of location. Area Inspector periodically check overflow.

Type of Discharge	Ballymanagan Pumping Station overflow
Unique Point Code	SDCCPS07b

Location	8 Ballymanagan, Clondalkin
Grid ref (6E, 6N)	306930E 232203N
Monitoring / Sample Points associated with discharge point	N/A – 2nd overflow from Ballymanagan Pumping Station. There are no monitoring points associated with the discharge point. The Camac River is sampled in accordance with the Phosphorous and DS regs and WFD downstream of location. Area Inspector periodically check overflow. **To be closed in 2008**

Type of Discharge	Peamount / Newcastle Ejector. Emergency overflow for Ejector Station
Unique Point Code	SDCCPS08a
Location	Newcastle
Grid ref (6E, 6N)	
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Newcastle Pumping Station.
Unique Point Code	SDCCPS09a
Location	Newcastle
Grid ref (6E, 6N)	
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	F/S overflow to surface water stream from Tay Lane, Rathcoole, Pumping Station. Emergency overflow for pumping station.
Unique Point Code	SDCCPS10a
Location	Tay lane Rathcoole
Grid ref (6E, 6N)	301903E 226888N

Monitoring / Sample Points associated with discharge point	N/A -

Type of Discharge	Overflow from Whitehall Pumping Station
Unique Point Code	SDCCPS11a
Location	Grosnover Court
Grid ref (6E, 6N)	312356E 229592N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	Siphon overflow
Unique Point Code	SDCCSN01
Location	Liffey @ St Edmondbury, Lucan
Grid ref (6E, 6N)	303827E 235698N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	F/S overflow to attenuation tank. If attenuation tank fills there is an overflow to Poddle
Unique Point Code	SDCCSWO01
Location	Whitehall Road (Perrystown Overflow)
Grid ref (6E, 6N)	312769E 230249N
Monitoring / Sample Points associated	N/A

with discharge point	

Type of Discharge	F/S to S/W overflow to prevent flooding of a dwelling as a result of main blockages and / or surcharging heavy rain events. Occassional overflow.
Unique Point Code	SDCCSWO02
Location	TreePark Road, Tamarisk, Kilnamanagh
Grid ref (6E, 6N)	309736E 229573N
Monitoring / Sample Points associated with discharge point	N/A – The overflow is checked periodically by the Area Drainage Inspector. In addition residents will report any overflow occurances.

Type of Discharge	F/S to S/W overflow to prevent flooding of commercial premises as a result of main blockages and / or surcharging heavy rain events. Occasional overflow. 6" Overflow to Tymon Stream tributary
Unique Point Code	SDCCSWO03
Location	Bimeda, Airton Road
Grid ref (6E, 6N)	309247E 228263N
Monitoring / Sample Points associated with discharge point	N/A – The Commissioning of the new 600mm Foul Sewer Duplication along Airton Road will allow for the decommissioning of this overflow – Jan 2008

Type of Discharge	F/S to S/W overflow to Dodder to prevent flooding as a result of main blockages and / or surcharging from heavy rain events.
Unique Point Code	SDCCSWO04
Location	Avonmore Rd / Avonmore Park
Grid ref	

(6E, 6N)	310482E 227249N
Monitoring / Sample Points associated with discharge point	N/A – With the construction of the Avonmore Road Foul Sewer Duplication in 2006 this overflow will be decommissioned in 2008.

Type of Discharge	F/S to S/W overflow to Camac to prevent flooding as a result of main blockages and / or surcharging during heavy rain events. Occassional overflow
Unique Point Code	SDCCSWO05 a & b
Location	Brookfield Cottage, Orchard Lane
Grid ref (6E, 6N)	307101E 231587N
Monitoring / Sample Points associated with discharge point	N/A – This overflow could be closed pending works being carried out re Watery Lane Foul Sewer and Park Developments.

Type of Discharge	F/S overflow to Camac from MH in commercial property. Emergency overflow activites only if main sewer chokes. Rarely activates.
Unique Point Code	SDCCSWO06
Location	Harris Trucks, Naas Rd
Grid ref (6E, 6N)	310016E 231782N
Monitoring / Sample Points associated with discharge point	N/A - The overflow is checked periodically by the Area Drainage Inspector.

Type of Discharge	F/S overflow to surface water system to prevent flooding of house. Capacity restrictions in main sewer due to possible infiltration. 225mm overflow.
Unique Point Code	SDCCSWO07
Location	107 St Peters Road, Walkinstown

Grid ref (6E, 6N)	311402E 230544N
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	F/S overflow to Camac. (Decommissioned?)
Unique Point Code	SDCCSWO08
Location	2 Castle View Rd, Clondalkin / Watery Lane
Grid ref (6E, 6N)	307320E 231706N
Monitoring / Sample Points associated with discharge point	N/A – Inspector to confirm that this overflow has been decommissioned

Type of Discharge	F/S overflow to surface water system to prevent flooding of house. Capacity restrictions in main sewer due to possible infiltration.
Unique Point Code	SDCCSWO09
Location	Aylmer Road
Grid ref (6E, 6N)	
Monitoring / Sample Points associated with discharge point	N/A

Type of Discharge	F/S overflow into Poddle
Unique Point Code	SDCCSWO10
Location	Kimmage Road West
Grid ref (6E, 6N)	313333E 230418N
Monitoring / Sample	N/A

Points associated with discharge point	

Type of Discharge	F/S overflow to Dodder.
Unique Point Code	SDCCSWO11
Location	Springfield Avenue
Grid ref (6E, 6N)	313724E 228908N
Monitoring / Sample Points associated with discharge point	N/A – This overflow could be decommissioned pending monitoring

Type of Discharge	Overflow from F/S into S/W system. Baffle wall in F/S - MH with overflow into surface water.
Unique Point Code	SDCCSWO12
Location	Loreto Terrace / Grange Road
Grid ref (6E, 6N)	314672E 228460N
Monitoring / Sample Points associated with discharge point	N/A – Rarely activated and could be decommissioned pending monitoring

Type of Discharge	F/S overflow to S/W to prevent flooding of a house. 150mm overflow
Unique Point Code	SDCCSWO13
Location	Oldcourt Manor
Grid ref (6E, 6N)	310134E 226024N
Monitoring / Sample Points associated	N/A

with discharge point	

Type of Discharge	Storm Overflow chamber on the 375mm foul sewer main at the Shell Filling Stations on the N4 beside Stewards Hospital, Palmerstown. The storm drain flows through Stewards Hospital to the River Liffey
Unique Point Code	SDCCSWO14
Location	Adj Shell, Palmerstown, N4
Grid ref (6E, 6N)	308818E 234951N
Monitoring / Sample Points associated with discharge point	N/A

Attachment B.5 should contain appropriately scaled drawings / maps (≤A3) of storm water overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, C.1, D.2, E.3 and F.2.

Attachment included	**Yes**	**No**

B.6 Planning Authority

Give the name of the planning authority, or authorities, in whose functional area the discharge or discharges take place or are proposed to take place.

Name:	N/A – Dublin City Council to complete
Address:	
Tel:	
Fax:	

e-mail:

Planning Permission relating to the waste water works which is the subject of this application:- (tick as appropriate)

has been obtained		***is being processed***	
is not yet applied for		***is not required***	

Local Authority Planning File Reference Nº:	

Attachment B.6 should contain ***the most recent*** planning permission, including a copy of ***all*** conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed. Where planning permission is not required for the development, provide reasons, relevant correspondence, *etc.*

Attachment included	**Yes**	**No**

B.7 Other Authorities

B.7 (i) Shannon Free Airport Development Company (SFADCo.) area

The applicant should tick the appropriate box below to identify whether the discharge or discharges are located within the Shannon Free Airport Development Company (SFADCo.) area.

Attachment B.7(i) should contain details of any or all discharges located within the SFADCo. area.

Within the SFADCo Area N/A	**Yes**	**No**

B.7 (ii) Health Services Executive Region

The applicant should indicate the **Health Services Executive Region** where the discharge or discharges are or will be located.

Name:	N/A – Dublin City Council to complete
Address:	
Tel:	
Fax:	

e-mail:	

B.7 (iii) Other Relevant Local Authorities

Regulation 13 of the Waste Water Discharge (Authorisation) Regulations, 2007 requires all applicants, not being the local authority in whose functional area the relevant waste water discharge or discharges, to which the relevant application relates, takes place or is to take place, to notify the relevant local authority of the said application.

Name:	N/A – Dublin City Council to complete
Address:	
Tel:	
Fax:	
e-mail:	

Relevant Authority Notified	**Yes**	**No**

Attachment B.7(iii) should contain a copy of the notice issued to the relevant local authority.

Attachment included	**Yes**	**No**

B.8 Notices and Advertisements

Regulations 10 and 11 of the Waste Water Discharge (Authorisation) Regulations, 2007 require all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note.*

Attachment B.8 should contain a copy of the site notice and an appropriately scaled drawing (≤A3) showing its location. **The original application must include the original page of the newspaper in which the advertisement was placed**. The relevant page of the newspaper containing the advertisement should be included with the original and two copies of the application.

Attachment included N/A – Dublin City Council to complete	**Yes**	**No**

B.9 (i) Population Equivalent of Agglomeration

TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

The population equivalent (p.e.) of the agglomeration to be, or being, served by the waste water works should be provided and the period in which the population equivalent data was compiled should be indicated.

Population Equivalent	
Data Compiled (Year)	
Method	

B.9 (ii) FEES

State the relevant Class of waste water discharge as per Column 1 of the Second Schedule, and the appropriate fee as per Columns 2 or 3 of the Third Schedule of the Waste Water Discharges (Authorisation) Regulations 2007, S.I. No. 684 of 2007.

Class of waste water discharge	Fee (in €)

Appropriate Fee Included N/A – Dublin City Council to complete	Yes	No

B.10 Capital Investment Programme

State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding, (local or national), allocated to the capital project. Provide details on the extent and type of work to be undertaken and the likely timeframes for this work to be completed.

Attachment B.10 should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
Documents from SDCC Infrastructural Project Tracking System. Also refer to GDSDS	**YES**	

B.11 Significant Correspondence

Provide a summary of any correspondence resulting from a Section 63 notice issued by the Agency in relation to the waste water works under the Environmental Protection Agency Acts, 1992 and 2003, as amended by Section 13 of Protection of the Environment Act, 2003.

Attachment B.11 should contain a summary of any relevant correspondence issued in relation to a Section 63 notice.

Attachment included N/A – Dublin City Council to complete	**Yes**	**No**

B.12 Foreshore Act Licences.

Provide a copy of the most recent Foreshore Act licence issued in relation to discharges from the waste water works issued under the Foreshore Act 1933.

Attachment B.12 should contain the most recent licence issued under the Forsehore Act 1933, including a copy of ***all*** conditions attached to the licence and any monitoring returns for the previous 12-month period, if applicable.

Attachment included N/A – Dublin City Council to complete	**Yes**	**No**

Three Year Capital Programme 2008 – 2010

Programme Group 3 – Water Supply & Drainage

The three-year capital programme provides for an expenditure of **€113.2m** which consists of **€49.4m** for water schemes and **€63.8m** for wastewater and surface water schemes. The schemes are funded from a combination of grants from the DEHLG, development levies, water pricing and in some cases funding from other agencies. In the case of schemes which rely on funding from the DEHLG approvals are required at various stages of the projects and this may affect the programme. The schemes include the following:-

Boherboy Water Supply Scheme

This scheme involves the construction of two new reservoirs at Saggart and at Kiltalown with capacities of 24 and 17.5 megalitres respectively. A new pumping station at Saggart will pump water to a new high level reservoir at Kiltalown. The scheme will also upgrade and expand the existing pipe network in the areas of Newcastle, Rathcoole, Saggart, Brownsbarn, Citywest, the southern parts of Tallaght and areas of Ballycragh, Oldbawn, Knocklyon, Ballyboden and Ballycullen. The scheme will enhance the water supply to existing users and facilitate future development. **Timescale: 2008 – 2010. Estimated Cost for the same period - €28.0million.**

Dodder Valley Foul Sewer Improvement Scheme

This scheme involves investigation and remediation of the existing sewer network with removal of storm water infiltration. This work will free up capacity in the existing sewer network to provide for new development. The scheme also involves the provision of new branch sewers and overflow tank to relieve existing network problems. The existing and future areas connected to the scheme are as far west as Jobstown and parts of Fortunestown and stretches to Ballycullen and Rathfarnham. **Timescale: 2008 – 2010. Estimated Cost for the same period- €9 million**

Greater Dublin Drainage (Contract 9B) Improvement Scheme

This scheme involves investigation, remediation and upgrading of the existing sewer network with removal of storm water infiltration. New storm tank at Ballymount with overflow to surface water segment of Grand Canal tunnel. The existing and future areas connected to the Scheme are Lucan including Adamstown, Liffey Valley, Quarryvale, Clondalkin, Ballymount, Grange Castle, Saggart, Newcastle, Rathcoole and Greenogue. **Timescale: 2008– 2010. Estimated Cost for the same period - €16 million**

Saggart/Rathcoole & Newcastle Drainage Collection Improvement Scheme

This scheme involves the investigation remediation and upgrading of the foul and surface water infrastructure in these three towns in order to provide for existing and future development. A new gravity main will be provide at Tay Lane to

connect Rathcoole to the new trunk sewer at the decommissioned treatment works at Saggart. A new pumping station will be provided at Peamount. **Timescale: 2008 – 2010.**
Estimated Cost for the same period - €11million

Tobermaclugg Rising Mains and Foul Sewer
This scheme consists of the provision of twin rising mains and a gravity sewer to connect to the 9B foul sewer at Balgaddy. The scheme is developer led with 60% of the cost being funded by the developer. The cost below is 40% of the total cost which is being funded by the DEHLG under the SLI scheme. The scheme will convey sewage from most of the Adamstown SDZ lands. **Timescale: Work has commenced on the rising mains and gravity sewer as part of roads contracts. Estimated Cost for the period 2008-2010**
€4 million.

Tobermaclugg Wastewater Pumping Station
This scheme is developer led by Chartridge Ltd and will serve most of the Adamstown SDZ lands. The scheme is developer led with 60% of the cost being funded by the developer. The cost below is 40% of the total cost which is being funded by the DEHLG under the SLI scheme.
Timescale: 2008 – 2010 Estimated cost for the period: €6.6million

Tobbermaclugg Stream Improvement Scheme
This scheme involves upgrading the river channel from the Adamstown SDZ lands to the River Liffey to alleviate existing flooding problems and to provide an adequate outfall for surface water from the Adamstown lands. The scheme is developer led with 60% of the cost being funded by the developer. The cost below is 40% of the total cost which is being funded by the DEHLG under the SLI scheme.
Timescale: 2008 – 2010. Estimated cost for period - €3.45million

Robinhood Stream Improvement Scheme
The scheme involves improvements to the stream channel from Robinhood Industrial Estate to the Camac River. This scheme is unlikely to receive DEHLG funding and will have to be funded from other sources.
Timescale: 2008 – 2010. Estimated cost for period - €776,300

Whitehall Road Flood Alleviation Scheme
The scheme involves removing some of the surface water from the existing combined sewer and reducing flows in the Poddle River by expanding the attenuation lakes at Tymon Park. This scheme is unlikely to attract DEHLG funding and will have to be funded from other sources.
Timescale: 2008 – 2010. Estimated cost €676,300

Lucan/Palmerston Water Supply Scheme

Construction commenced in October 2002 and the scheme was substantially completed in December 2004. All outstanding works completed. The final accounts will be submitted to the DEHLG in the near future for their approval. **Projected Expenditure 2008-2010: €300,000**.

Non Domestic Metering Project

The statutory Water Pricing Policy framework requires the universal metering of non domestic customers and the full recovering of the cost of providing water and waste water services to non domestic customers. The project commenced in 2006 and expenditure for 2006 to end of 2007 was €5.1million. **Timescale: Contract in progress, completion June 2008 Estimated Cost for Project €7.1million- Expenditure in 2008 €2.83m**

Road Works Schemes

These schemes involve the construction of strategic watermains along new roadways as proposed in the Council's Roads Programme for 2008-2010. These mains will offer security of supply, create strategic linkages across the County and will improve flows within the distribution network.

Timescale 2008-2010 Estimated Cost for same period – €9.27million

Dublin Region Mains Rehabilitation Project

The Mains Rehabilitation phase of the Greater Dublin Region Strategic Water Study Report commenced early 2006. The project involves the replacement of pipes with a high burst frequency, based on an agreed assessment methodology. Under the increased funding arrangements for Water Conservation Programmes (circular L6/05), 90% funding is available for this work. The Council has received approval from the Regional Steering Group and intends to carry out rehabilitation, to a number of areas prone to general and seasonal bursts, on a phased basis over the next two years.

Timescale: 2008-2009

Estimated cost for the same period - €4.57million

Water Conservation Programme

The National Water Conservation funding programme provides 90% grants to local authorities to implement and maintain effective water conservation measures. The Council has so far carried out works on additional district metering and pressure control management amounting to €175,000 in accordance with this programme.

Timescale: End 2008

Estimated cost for same period - €0.482million

Water Maintenance

The Capital Programme includes a number of small schemes throughout the County to upgrade the Council's watermains. Works carried out to upgrade and improve the watermain network during 2007 amounted to approximately €1m.

Timescale: 2008 – 2010
Estimated cost: €3.97million

Drainage Maintenance and Mechanical Works

The Capital Programme provides for certain works to upgrade the Council's infrastructure costing approximately **€7.38million over the years 2008-2010**.
Also provided for is the refurbishment of a number of pumping stations and replacement of pumps at an estimated cost of **€4.94 million over the years 2008-2010**.

Draft South Dublin County Council Three Year Capital Programme 2008-2010

Indicative figures only

Overall totals

	Expenditure							Funded by			
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**		**Loans**	**Levies**	**Grants**	**Revenue Provision**	**Disposals Revenue**	**Total**
SCHEMES WHERE CONTRACTS ARE SIGNED	360,631,336	266,908,933	229,900,000	857,440,269	-	302,500,000	56,064,601	414,754,436	6,811,232	79,510,000	857,500,269
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	79,825,000	69,719,650	23,295,000	172,839,650		-	61,295,610	8,733,185	11,920,670	73,915,000	172,839,650
Projects planned but subject to availability of funding	41,186,893	77,052,109	74,110,897	192,349,899		-	40,557,921	38,557,854	10,327,851	102,906,273	192,349,899
Overall Totals	**481,643,229**	**413,680,692**	**327,305,897**	**1,222,629,818**	**-**	**302,500,000**	**157,918,132**	**462,045,475**	**29,059,753**	**256,331,273**	**1,222,689,818**

2008 position

	Expenditure		Funded by					
PROGRAMME GROUP	**2008**		**Loans**	**levies**	**Grants**	**Revenue Provision**	**Disposals Revenue**	**Total**
SCHEMES WHERE CONTRACTS ARE SIGNED	360,631,336		88,500,000	52,663,055	180,826,236	2,552,045	38,290,000	362,831,336
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	79,825,000			26,867,545	8,733,185	5,723,670	38,500,600	79,825,000
Projects planned but subject to availability of funding	41,186,893			4,185,614	6,520,000	2,682,379	27,798,900	41,186,893
Overall Totals	**481,643,229**	**-**	**88,500,000**	**83,716,214**	**196,079,421**	**10,958,094**	**104,589,500**	**483,843,229**

2009 position

	2009		Funded by					
PROGRAMME GROUP			**Loans**	**levies**	**Grants**	**Revenue Provision**	**Disposals Revenue**	**Total**
SCHEMES WHERE CONTRACTS ARE SIGNED	266,908,933		98,100,000	2,461,546	139,028,200	4,249,187	23,070,000	266,908,933
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	69,719,650			26,372,065	14,485,185	3,670,000	25,192,400	69,719,650
Projects planned but subject to availability of funding	77,052,109			17,580,400	18,605,412	3,435,182	37,431,115	77,052,109
								-
Overall Totals	**413,680,692**	**-**	**98,100,000**	**46,414,011**	**172,118,797**	**11,354,369**	**85,693,515**	**413,680,692**

2010 Position

	2010		Funded by					
			Loans	**levies**	**Grants**	**Revenue Provision**	**Disposals Revenue**	**Total**
PROGRAMME GROUP								
SCHEMES WHERE CONTRACTS ARE SIGNED	229,900,000		115,900,000	940,000	94,900,000	10,000	18,150,000	229,900,000
Projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road	23,295,000			8,056,000	2,490,000	2,527,000	10,222,000	23,295,000
Projects planned but subject to availability of funding	74,110,897			18,791,907	13,432,442	4,210,290	37,676,258	74,110,897
								-
Overall Totals	**327,305,897**	**-**	**115,900,000**	**27,787,907**	**110,822,442**	**6,747,290**	**66,048,258**	**327,305,897**

Summary of Schemes where contracts are signed 2008-2010

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010		Total Loans	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Programme 1	188,416,399	213,720,000	189,550,000	591,686,399	-	294,050,000	-	236,416,399	-	61,220,000	591,686,399
Programme 2	121,806,591	32,750,000	34,700,000	189,256,591	-	-	39,375,801	145,597,612	283,178	4,000,000	189,256,591
Programme 3	18,335,783	12,838,933	4,050,000	35,224,716	-	-	9,820,582	20,836,080	6,528,054	240,000	35,284,716
Programme 4	10,550,000	5,000,000	-	15,550,000	-	-	-	6,000,000	-	9,550,000	15,550,000
Programme 5	5,250,000	2,100,000	1,100,000	8,450,000	-	8,450,000	-	-	-	-	8,450,000
Programme 6	16,272,563	500,000	500,000	17,272,563	-	-	6,868,218	5,904,345	-	4,500,000	17,272,563
						-	-	-	-	-	
Overall total	**360,631,336**	**266,908,933**	**229,900,000**	**857,440,269**		**302,500,000**	**56,064,601**	**414,754,436**	**6,811,232**	**79,510,000**	**857,500,269**

Detail per programme group where contracts are signed 2008-2010

Expenditure

PROGRAMME GROUP	2008	2009	2010	Total 2008 - 2010		Total Loans	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
SCHEMES WHERE CONTRACTS ARE SIGNED											
Programme 1											
Construction Programme	57,000,000	76,650,000	40,600,000	174,250,000		-	-	174,250,000	-	-	174,250,000
Extensions in lieu of Housing	100,000	120,000	150,000	370,000		-	-	-	-	370,000	370,000
Remedial/Refurbishment	20,900,000	21,500,000	16,500,000	58,900,000		-	-	18,400,000	-	40,500,000	58,900,000
Provision of Voluntary Housing	50,000,000	50,000,000	40,000,000	140,000,000		140,000,000	-	-	-	-	140,000,000
Homelessness Projects	1,150,000	2,000,000	1,000,000	4,150,000		-	-	4,150,000	-	-	4,150,000
Traveller Accommodation	14,616,399	13,000,000	12,000,000	39,616,399		-	-	39,616,399	-	-	39,616,399
Shared Ownership Scheme	1,250,000	10,000,000	10,000,000	21,250,000		21,250,000	-	-	-	-	21,250,000
Affordable Housing	32,000,000	36,000,000	64,800,000	132,800,000		132,800,000	-	-	-	-	132,800,000
Prov. of extensions to LA Housing	400,000	450,000	500,000	1,350,000		-	-	-	-	1,350,000	1,350,000
Additional ICR exp(as directed by DoE)	11,000,000	4,000,000	4,000,000	19,000,000		-	-	-	-	19,000,000	19,000,000
Sub total programme 1	**188,416,399**	**213,720,000**	**189,550,000**	**591,686,399**		**294,050,000**	**-**	**236,416,399**	**-**	**61,220,000**	**591,686,399**
						-	-	-	-	-	-
Programme 2						-	-	-	-	-	-
N7 to Kildare Co Boundary	1,000,000	1,000,000		2,000,000		-	-	2,000,000	-	-	2,000,000
N4 to Leixlip	30,000,000	20,000,000	5,000,000	55,000,000		-	-	55,000,000	-	-	55,000,000
M50 Third Lane	21,500,000			21,500,000		-	-	21,500,000	-	-	21,500,000
Green Route (Ballyboden to Grange Road)	7,250,000	500,000		7,750,000		-	6,350,000	1,400,000	-	-	7,750,000
Firhouse Road - Contract B	4,000,000	250,000		4,250,000		-	4,250,000	-	-	-	4,250,000
Finnstown	2,000,000			2,000,000		-	2,000,000	-	-	-	2,000,000
Outer Ring Road - Phase 2	14,000,000			14,000,000		-	4,000,000	10,000,000	-	-	14,000,000
Outer Ring Road - Phase 3	31,000,000			31,000,000		-	17,000,000	10,000,000	-	4,000,000	31,000,000
Ballinascorney Junction Upgrade	200,000			200,000		-	200,000	-	-	-	200,000
Hayden's Lane	300,000	100,000		400,000		-	400,000	-	-	-	400,000
R133 Ballycullen Link Road	500,000			500,000		-	500,000	-	-	-	500,000
DTO Related Schemes	6,900,000	10,500,000	29,700,000	47,100,000		-	2,000,000	45,100,000	-	-	47,100,000
JFK Drive culvert	600,000	400,000		1,000,000		-	1,000,000	-	-	-	1,000,000

Detail per programme group where contracts are signed 2008-2010

	Expenditure										
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**		**Total Loans**	**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
Greenhills/Ballymount recofig (Limekiln + QBC + Greenhills + Robinhood Rd)	310,229			310,229		-	-	310,229	-	-	310,229
Nangor Rd Extn. & Baldonnel Rd. link	268,800			268,800		-	215,040	-	**53,760**	-	268,800
Knocklyon Road	44,160			44,160		-	35,328	-	**8,832**	-	44,160
Belgard Rd to Citywest (Belgard to Cookstown Road 400mm main)	145,516			145,516		-	-	145,516	-	-	145,516
Belgard Rd to Citywest (Cookstown Rd. to Outer Ring Rd. Ph 3)	543,086			543,086		-	543,086	-	-	-	543,086
Lucan/Newcastle Rd Realignment (Finnistown House to Milltown)	1,102,933			1,102,933		-	882,347	-	**220,586**	-	1,102,933
QBC - Lucan to Newcastle Rd (S'quinn)	81,067			81,067		-	-	81,067	-	-	81,067
QBC - Lucan to Newcastle Rd (S'quinn)	60,800			60,800		-	-	60,800	-	-	60,800
Sub total programme 2	**121,806,591**	**32,750,000**	**34,700,000**	**189,256,591**	**-**	**-**	**39,375,801**	**145,597,612**	**283,178**	**4,000,000**	**189,256,591**
						-	-	-	-	-	-
Programme 3						-	-	-	-	-	-
N4 Lucan by Pass: Replace existing pipes	991,680			991,680		-	-	991,680	-	-	991,680
N4 Lucan by Pass: Lay new mains	568,320			568,320			568,320	-	-	-	568,320
Subdivision of DMAs, PRVs etc (C3100116)	482,450			482,450		-	482,450	-	-	-	482,450
Enabling Network Management	1,365,000			1,365,000		-	1,092,000	-	**273,000**	-	1,365,000
168 to 192 Whitehall Road	37,400			37,400		-	29,920	-	**7,480**	-	37,400
Old Hill, Lucan (C3100122)	406,300			406,300		-	325,040	-	**81,260**	-	406,300
Deansrath Depot - materials bay	30,000			30,000		-	30,000	-	-	-	30,000
Kilmahuddrick Stream Regrading	40,000		30,000	70,000		-	56,000	-	**14,000**	-	70,000
Cherryfield Halting Site		12,000		12,000		-	-	12,000	-	-	12,000
Composite Samplers and Meters	100,000			100,000		-	80,000	-	**20,000**	-	100,000
Robinhood Stream Improvement Works	500,000	276,300		776,300		-	621,040	-	**155,260**	-	776,300
West Tallaght F/S Investigation		125,000		125,000		-	100,000	-	**25,000**	-	125,000
Whitehall Road Flood Alleviation Scheme	500,000	176,000		676,000		-	540,800	-	**135,200**	-	676,000
Monksfield F/S Investigation	25,000			25,000		-	20,000	-	**5,000**	-	25,000
Airton Road Sewer (C3200152)	250,000			250,000		-	200,000	-	**50,000**	-	250,000
Infiltration/Inflow investigative work	30,000	40,000	20,000	90,000		-	72,000	-	**18,000**	-	90,000
Mogden AC telemetry & meters	209,633	209,633		419,266		-	335,412	-	**83,854**	-	419,266
Boherboy Water Supply Scheme	12,000,000	12,000,000	4,000,000	28,000,000		-	2,567,600	19,832,400	**5,600,000**	-	28,000,000
Lucan/Palmerstown WSS	800,000			800,000		-		800,000			800,000
Sub total programme 3	**18,335,783**	**12,838,933**	**4,050,000**	**35,224,716**		**-**	**7,120,582**	**21,636,080**	**6,528,054**	**-**	**35,284,716**
						-	-	-	-	-	-
Programme 4						-	-	-	-	-	-
Grange Castle: Takeda to Baldonnell Road (Contract 7)	3,500,000			3,500,000		-	-	1,000,000	-	2,500,000	3,500,000
Grange Castle: Acquisition of dwelling to Clutterland	1,300,000			1,300,000		-	-	-	-	1,300,000	1,300,000
County Stadium, Whitestown	5,000,000	5,000,000		10,000,000		-	-	5,000,000	-	5,000,000	10,000,000
Keenbury Disposal & Development of carparking	750,000			750,000		-	-	-	-	750,000	750,000
Sub total programme 4	**10,550,000**	**5,000,000**	**-**	**15,550,000**		**-**	**-**	**6,000,000**	**-**	**9,550,000**	**15,550,000**

Detail per programme group where contracts are signed 2008-2010

	Expenditure										
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**		**Total Loans**	**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
						-	-	-	-	-	-
Programme 5						-	-	-	-	-	-
Arthurstown Landfill	5,250,000	2,100,000	1,100,000	8,450,000		8,450,000	-	-	-	-	8,450,000
Sub total programme 5	**5,250,000**	**2,100,000**	**1,100,000**	**8,450,000**		**8,450,000**	**-**	**-**	**-**	**-**	8,450,000
						-	-	-	-	-	-
Programme 6						-	-	-	-	-	-
Brookfield Community Centre	300,000			300,000		-	300,000	-	-	-	300,000
Tallaght Swimming Pool	975,000			975,000		-	784,539	190,461	-	-	975,000
County Arts Centre	6,500,000			6,500,000		-	-	2,000,000	-	4,500,000	6,500,000
Clondalkin Swimming Pool	665,000			665,000		-	284,079	380,921	-	-	665,000
Fettercairn (Extension to Comm Centre	50,000			50,000		-	-	50,000	-	-	50,000
* St Muirin's Community Centre	1,082,563			1,082,563		-	649,600	432,963	-	-	1,082,563
Fortunestown B Childcare Centre		200,000		200,000		-	-	200,000	-	-	200,000
Belfry Childcare Centre	200,000			200,000		-	200,000	-	-	-	200,000
Civic Theatre Restaurant Refurbishment	200,000			200,000		-	200,000	-	-	-	200,000
Public Art Programme	600,000	300,000	500,000	1,400,000			-	1,400,000	-	-	1,400,000
Sports Capital	1,000,000			1,000,000			350,000	650,000			1,000,000
Parks Improvement Works	3,500,000			3,500,000			3,500,000	-			3,500,000
Playgrounds	900,000			900,000			600,000	300,000			900,000
Other Capital	300,000			300,000			-	300,000			300,000
Sub total programme 6	**16,272,563**	**500,000**	**500,000**	**17,272,563**		**-**	**6,868,218**	**5,904,345**	**-**	**4,500,000**	**17,272,563**
						-	-	-	-	-	-
Overall totals	**360,631,336**	**266,908,933**	**229,900,000**	**857,440,269**	**-**	**302,500,000**	**56,064,601**	**414,754,436**	**6,811,232**	**79,510,000**	**859,640,269**

Summary of projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road 2008-2010

	Expenditure									
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**		**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
						0	0	0	0	
Programme 1						0	0	0	0	
Programme 2	29,650,000	31,970,000	16,200,000	77,820,000	-	24,345,000	13,975,000	8,000,000	31,500,000	77,820,000
Programme 3	14,780,000	9,099,650	2,595,000	26,474,650	-	17,350,610	6,233,370	1,570,670	1,320,000	26,474,650
Programme 4	23,945,000	12,200,000	3,500,000	39,645,000	-	0	1,050,000	200,000	38,395,000	39,645,000
Programme 5	4,150,000	2,300,000	-	6,450,000	-	4,300,000	0	2,150,000	0	6,450,000
Programme 6	7,300,000	14,150,000	1,000,000	22,450,000	-	15,300,000	4,450,000	0	2,700,000	22,450,000
						0	0	0	0	
Overall total	**79,825,000**	**69,719,650**	**23,295,000**	**172,839,650**	**-**	**61,295,610**	**25,708,370**	**11,920,670**	**73,915,000**	**172,839,650**

	Expenditure									
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**		**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
Programme 2						0	0	-	0	0
Bohernabreena Junction Upgrade	1,000,000	100,000	-	1,100,000		1,100,000	0	-	0	1,100,000
Ballymaice Junction Upgrade	200,000	100,000	-	300,000		300,000	0	-	0	300,000
Belgard Road to Outer Ring Road (Part of Walkinstown / Saggart Rd)	8,500,000	8,500,000	2,000,000	19,000,000		3,000,000	10,000,000	-	6,000,000	19,000,000
Nangor Road Realignment	4,000,000	4,000,000	200,000	8,200,000		4,200,000	1,500,000	-	2,500,000	8,200,000
Knocklyon Road	4,500,000	4,500,000	-	9,000,000		3,000,000	0	-	6,000,000	9,000,000
Rathcoole Relief Road - phases 1 & 2	5,000,000	5,000,000	6,000,000	16,000,000		4,000,000	0		12,000,000	16,000,000
Aylmer to Peamount	1,000,000	4,000,000	4,000,000	9,000,000		4,000,000	0	-	5,000,000	9,000,000
Traffic Management Centre	1,650,000	2,220,000	1,700,000	5,570,000		3,095,000	2,475,000	-	0	5,570,000
Footpath repairs	2,000,000	2,000,000	2,000,000	6,000,000		0		6,000,000	0	6,000,000
New footpaths	300,000	300,000	300,000	900,000		900,000		-	0	900,000
Traffic calming	1,000,000	1,000,000	-	2,000,000		0	0	2,000,000	0	2,000,000
Rowlagh Parking	500,000	250,000	-	750,000		750,000	0	-	0	750,000
Sub total programme 2	**29,650,000**	**31,970,000**	**16,200,000**	**77,820,000**		**24,345,000**	**13,975,000**	**8,000,000**	**31,500,000**	**77,820,000**
								-		
Programme 3								-		
Rehab - Baldonnell	639,000	639,000		1,278,000		127,800	1,150,200	-	0	1,278,000
Rehab - Red Cow	274,000	274,000		548,000		54,800	493,200	-	0	548,000
Hot Spot - Oldbawn	135,000	135,000		270,000		27,000	243,000	-	0	270,000
Hot Spot - Limekiln	679,000	679,000		1,358,000		135,800	1,222,200	-	0	1,358,000
Hot Spot - Ballydowd	214,500	214,500		429,000		42,900	386,100	-	0	429,000
Hot Spot - Rathcoole	348,150	348,150		696,300		69,630	626,670	-	0	696,300
Lucan Spa DPS standby generator		200,000		200,000		200,000	0	-	0	200,000
Johnstown DPS Refurb	1,100,000			1,100,000		1,100,000	0	-	0	1,100,000
Quaryvales DPS Refurb	1,100,000			1,100,000		1,100,000				
Ardmor DPS Refurb	50,000			50,000		50,000	0	-	0	50,000
Esker DPS Replace Pumps 2 & 4	182,000			182,000		182,000	0	-	0	182,000
Esker DPS Replace Pumps 1 & 3	200,000			200,000		200,000	0	-	0	200,000
Esker DPS Macerating Chamber	1,000,000			1,000,000		1,000,000	0	-	0	1,000,000
Rain Gauges Various	110,000			110,000		110,000	0	-	0	110,000
Inlet Flow Meters Various	60,000	60,000	60,000	180,000		180,000	0	-	0	180,000
Belgard Water Res Wind Turbine	70,000			70,000		70,000	0	-	0	70,000
Ninth Lock Road/Nangor Road Upgrade	75,000			75,000		60,000	0	15,000	0	75,000
Avondale Terrace	79,750			79,750		63,800	0	15,950	0	79,750
Sarah Curran Avenue	77,000			77,000		61,600	0	15,400	0	77,000
Milltown Tower Diversion NC	105,000			105,000		84,000	0	21,000	0	105,000

Summary of projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road 2008-2010

	Expenditure									
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**		**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
						0	0	0	0	
College Drive	57,750			57,750		46,200	0	11,550	0	57,750
Tara Hill Rathfarnham	57,750			57,750		46,200	0	11,550	0	57,750
Sarsfield Park, Lucan	55,000			55,000		44,000	0	11,000	0	55,000
Spring Bank, Saggart	41,250			41,250		33,000	0	8,250	0	41,250
Washington Lane, Rathfarnham	33,000			33,000		26,400	0	6,600	0	33,000
1 to 6 Old Bawn Road	13,750			13,750		11,000	0	2,750	0	13,750
St Agnes Ter, Rathfarnham	36,500			36,500		29,200	0	7,300	0	36,500
Newcastle Village	217,000			217,000		173,600	0	43,400	0	217,000
Newcastle Village to Greenogue	241,800			241,800		193,440	0	48,360	0	241,800
Newcastle College Lane	303,800			303,800		243,040	0	60,760	0	303,800
Station Road S/W	35,000			35,000		28,000	0	7,000	0	35,000
Hydrometric Stations Upgrades	35,000	35,000	35,000	105,000		84,000	0	21,000	0	105,000
ERBD	19,000			19,000		15,200	0	3,800	0	19,000
Whitechurch Stream/ School Culvert		500,000	400,000	900,000		720,000	0	180,000	0	900,000
Camac Culvert	15,000			15,000		12,000	0	3,000	0	15,000
Whitehall Road Local S/W		65,000		65,000		52,000	0	13,000	0	65,000
Cookstown/Airton Road FS Interconnect		500,000	500,000	1,000,000		800,000	0	200,000	0	1,000,000
Butterfield Ave FS Upgrade			100,000	100,000		80,000	0	20,000	0	100,000
Belgard Cookstown FS Upgrade		350,000	350,000	700,000		520,000	0	180,000	0	700,000
Camac Culvert Replacement	1,000,000	1,000,000	1,000,000	3,000,000		2,400,000		600,000	0	3,000,000
CSO Monitoring	20,000	50,000	50,000	120,000		96,000	0	24,000	0	120,000
Dodder Valley sewer Essential Works	100,000		100,000	200,000		160,000	0	40,000	0	200,000
Tobermaclugg Pumping Station	4,000,000	2,600,000		6,600,000		3,168,000	2,112,000	-	1,320,000	6,600,000
Tobermaclugg Stream Improvement	2,000,000	1,450,000		3,450,000		3,450,000	0	-	0	3,450,000
Sub total programme 3	**14,780,000**	**9,099,650**	**2,595,000**	**26,474,650**		**17,350,610**	**6,233,370**	**1,570,670**	**1,320,000**	**26,474,650**
								-		
Programme 4								-		
Grange Castle: Installation of CCTV	1,000,000			1,000,000		0	0	200,000	800,000	1,000,000
GCBPark Arts/Culture Scheme	200,000	200,000		400,000		0	400,000	-	0	400,000
Contract 9 Construction of Services to 30 Acres west of Grange Castle	2,000,000			2,000,000		0	0	-	2,000,000	2,000,000
Tallaght Town Centre: St. Maelruan's Field - preparation for Disposal	1,000,000			1,000,000		0	0	-	1,000,000	1,000,000
Tallaght Zip project (house & paving)	1,000,000	500,000		1,500,000		0	0	-	1,500,000	1,500,000
Keenbury Traffic Management Costs & Landscaping form Tallaght Hospital to Exchane Bldgs	400,000			400,000		0	0	-	400,000	400,000
Development of Green Routes/Cycleways - Dodder Pilot	2,000,000	1,000,000	1,000,000	4,000,000		0	0	-	4,000,000	4,000,000

Summary of projects committed where Council is obliged to complete, but not in Contract e.g. Adamstown Community Facilities and Nangor Road 2008-2010

	Expenditure									
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**		**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
						0	0	0	0	
County Arts centre - access and landscape works	1,500,000			1,500,000		0	0	-	1,500,000	1,500,000
Acq Fossetts 12th Lock (univar access)	2,000,000			2,000,000		0	0	-	2,000,000	2,000,000
Development of ESB 110kv/Green Canal Route	5,000,000	5,000,000		10,000,000		0	0	-	10,000,000	10,000,000
50:50 Agreement - Dublin City Council (Shelbourne)	3,500,000			3,500,000		0	0	-	3,500,000	3,500,000
Derelict Sites Act: Acquisition of "Clarkeville", Palmerstown	250,000			250,000		0	0	-	250,000	250,000
Derelict Sites Act: Acquisition of No.4 Deansrath Cottages, Clondalkin	300,000			300,000		0	0	-	300,000	300,000
Derelict Sites Act: Acquisition of "Tony Kearns Motors", Palmerstown	400,000			400,000		0	0	-	400,000	400,000
Derelict Sites Act: Acquisition of No.116 Sarsfield Park, Lucan	245,000			245,000		0	0	-	245,000	245,000
Derelict Sites Act: Provision for Future Acquisitions	500,000	500,000	500,000	1,500,000		0	0	-	1,500,000	1,500,000
Derelict Site Act Acq 2 Fernwood	150,000			150,000		0	150,000	-	0	150,000
Milltown Park- Prov of Infrastructu	2,000,000	3,000,000	2,000,000	7,000,000		0		-	7,000,000	7,000,000
Access Road Dublin Bus & Civic Amenity Clutterland	500,000	2,000,000		2,500,000		0	500,000	-	2,000,000	2,500,000
Sub total programme 4	**23,945,000**	**12,200,000**	**3,500,000**	**39,645,000**		**-**	**1,050,000**	**200,000**	**38,395,000**	**39,645,000**
								-		
Programme 5								-		
Ballymount Depot	2,150,000	2,150,000		4,300,000		4,300,000	0	-	0	4,300,000
CCRI	1,100,000			1,100,000				1,100,000		1,100,000
Ballymount Baling Station	900,000	150,000		1,050,000		0	0	1,050,000	0	1,050,000
Sub total programme 5	**4,150,000**	**2,300,000**	**-**	**6,450,000**		**4,300,000**	**0**	**2,150,000**	**0**	**6,450,000**
								-		
Programme 6								-		
Templeogue House	1,000,000	1,500,000		2,500,000		2,500,000	0	-	0	2,500,000
Neilstown Boxing Club	1,000,000	500,000		1,500,000		500,000	1,000,000	-	0	1,500,000
Rowlagh Community Centre	1,300,000			1,300,000		0	1,300,000	-	0	1,300,000
St. Marks Youth and Family Cent	1,500,000	500,000		2,000,000		1,800,000	200,000	-	0	2,000,000
Adamstown Civic Centre/Sports H	1,000,000	3,000,000	1,000,000	5,000,000		5,000,000	0	-	0	5,000,000
Grange Castle Golf Course	1,500,000	1,200,000		2,700,000		0	0		2,700,000	2,700,000
Sports Capital Grant Projects		1,500,000		1,500,000		500,000	1,000,000		0	1,500,000
Parks Improvements Works		4,000,000		4,000,000		4,000,000	0		0	4,000,000
Playgrounds		1,600,000		1,600,000		1,000,000	600,000		0	1,600,000
Other Capital		350,000		350,000		0	350,000		0	350,000
Sub total programme 6	**7,300,000**	**14,150,000**	**1,000,000**	**22,450,000**		**15,300,000**	**4,450,000**	**-**	**2,700,000**	**22,450,000**
								-		
Overall totals	**79,825,000**	**69,719,650**	**23,295,000**	**172,839,650**	**-**	**61,295,610**	**25,708,370**	**11,920,670**	**73,915,000**	**172,839,650**

Summary of projects planned but subject to availability of funding 2008-2010

PROGRAMME GROUP	Expenditure 2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Programme 1					-	-	-	-	
Programme 2	6,900,000	23,150,000	34,207,000	64,257,000	13,850,000	2,450,000	-	47,957,000	64,257,000
Programme 3	3,256,893	17,252,109	22,203,897	42,712,899	19,857,921	12,048,640	8,272,851	2,533,487	42,712,899
Programme 4	18,575,000	8,900,000	6,700,000	34,175,000	-	-	-	34,175,000	34,175,000
Programme 5	1,320,000	3,000,000	-	4,320,000	-	3,000,000	1,320,000	-	4,320,000
Programme 6	11,135,000	24,750,000	11,000,000	46,885,000	6,850,000	21,059,214	735,000	18,240,786	46,885,000
					-	-	-	-	
Overall Total	**41,186,893**	**77,052,109**	**74,110,897**	**192,349,899**	**40,557,921**	**38,557,854**	**10,327,851**	**102,906,273**	**192,349,899**

Detail per programme group of projects planned but subject to availability of funding 2008-2010

PROGRAMME GROUP	Expenditure 2008	2009	2010	Total 2008 - 2010	Total Levies	Total Grants	Total Revenue	Total Disposals	Total
Programame 2									
Greenhills Road Reconfiguration (Part of Walkinstown / Saggart Rd)	200,000	8,000,000	8,000,000	16,200,000	-	-	-	16,200,000	16,200,000
Newcastle Road Realignment R120	1,500,000	6,000,000	3,000,000	10,500,000	9,000,000	-	-	1,500,000	10,500,000
Peamount to Celbridge Road	250,000	1,000,000	10,000,000	11,250,000	-	-	-	11,250,000	11,250,000
Stocking lane (Road Upgrade)	-	-	7,157,000	7,157,000	1,500,000	-	-	5,657,000	7,157,000
Stocking lane (foothpath/cycle track)	300,000	100,000		400,000	-	-	-	400,000	400,000
Whitechurch Road	2,000,000	2,000,000	500,000	4,500,000	-	-	-	4,500,000	4,500,000
Parking and Signing Infrastructure	1,150,000	1,100,000	1,100,000	3,350,000	3,350,000	-	-	-	3,350,000
Demand Management Strategy	300,000	1,950,000	4,450,000	6,700,000	-	2,450,000	-	4,250,000	6,700,000
Driver training	200,000	2,000,000		2,200,000	-	-	-	2,200,000	2,200,000
Miscellaneous	1,000,000	1,000,000		2,000,000	-	-	-	2,000,000	2,000,000
Sub total programme 2	**6,900,000**	**23,150,000**	**34,207,000**	**64,257,000**	**13,850,000**	**2,450,000**	**-**	**47,957,000**	**64,257,000**
				-					
Programme 3				-	-	-	-	-	
Moorfield to Cloverhill Road			213,120	213,120	170,496	-	42,624	-	213,120
Moorfield to Foxdene Esker			410,880	410,880	-	410,880	-	-	410,880
Western way Peamount Road to Celbridge Road and link to Milltown	136,893	1,642,712	821,356	2,600,961	2,080,769	-	520,192	-	2,600,961
Stocking Lane		45,440	136,320	181,760	145,408	-	36,352	-	181,760
Whitechurch Road		76,198	41,562	117,760	-	117,760	-	-	117,760
Barton Road Ext		146,598	79,962	226,560	181,248	-	45,312	-	226,560
Belgard Water Res Wind Turbine	70,000			70,000	-	-	-	70,000	70,000
Ballymanaggan Standby Generator			100,000	100,000	-	-	-	100,000	100,000
Lucan Low Level DPS Pumps 3 & 4			250,000	250,000	-	-	-	250,000	250,000
Newcastle DPS Pumps 3 & 4			250,000	250,000	-	-	-	250,000	250,000
Whitehall DPS New Pumps			100,000	100,000	-	-	-	100,000	100,000
Lucan Spa Drainage PS New Pumps	50,000			50,000	-	-	-	50,000	50,000
Peamount Hospital to Milltown		378,164		378,164	-	-	75,633	302,531	378,164
Butterfield Crescent, Rathfarnham		391,355		391,355	-	-	78,271	313,084	391,355
Anne Devlin, Rathfarnham		571,642		571,642	-	-	114,328	457,314	571,642
Main Street, Rathcoole			243,096	243,096	-	-	48,619	194,477	243,096
Ballycullen Drive, Firhouse			10,635	10,635	-	-	2,127	8,508	10,635
Loughtown Road, Peamount			546,966	546,966	-	-	109,393	437,573	546,966
Gr. Dublin Drainage 9B Scheme	1,000,000	5,000,000	10,000,000	16,000,000	7,680,000	5,120,000	3,200,000	-	16,000,000

Detail per programme group of projects planned but subject to availability of funding 2008-2010

	Expenditure								
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**	**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
Dodder Valley FS Improvement Sch.	1,000,000	4,000,000	4,000,000	9,000,000	4,320,000	2,880,000	1,800,000	-	9,000,000
Saggart/Rathcoole Drain Coll Sch.	1,000,000	5,000,000	5,000,000	11,000,000	5,280,000	3,520,000	2,200,000	-	11,000,000
Sub total programme 3	**3,256,893**	**17,252,109**	**22,203,897**	**42,712,899**	**19,857,921**	**12,048,640**	**8,272,851**	**2,533,487**	**42,712,899**
				-					
Programme 4				-	-	-	-	-	
Grange Castle : Golf Course lands (Club house)	4,500,000			4,500,000	-	-	-	4,500,000	4,500,000
Grange Castle: Restoration of Kilcarbery House	100,000	100,000	100,000	300,000	-	-	-	300,000	300,000
Grange Castle: Restoration of Grange Castle	100,000	500,000	500,000	1,100,000	-	-	-	1,100,000	1,100,000
Grange Castle: Preserve and Refurbish Grange Cottage - Craft Centre		1,000,000	1,000,000	2,000,000	-	-	-	2,000,000	2,000,000
Grange Castle: Archaeology / Investigations / Resolutions	100,000			100,000	-	-	-	100,000	100,000
Grange Castle: Management Building - Paving, Signage & Landscaping	25,000			25,000	-	-	-	25,000	25,000
Acquisition of No 1 Millview, Clondalkin	500,000			500,000	-	-	-	500,000	500,000
2 Bawnlea Green (acquisition)	400,000			400,000	-	-	-	400,000	400,000
Neilstown Sc Clondalkin (carpark, access & CCTV)	400,000			400,000	-	-	-	400,000	400,000
Provision of allotments in South Dublin County Council	100,000	100,000	100,000	300,000	-	-	-	300,000	300,000
Round Tower Project	2,150,000	2,150,000		4,300,000	-	-	-	4,300,000	4,300,000
Sleeves under railway Kishoge (220kv)	100,000			100,000	-	-	-	100,000	100,000
Works to acquired properties prior to re-sale/let/lease	100,000	50,000		150,000	-	-	-	150,000	150,000
Long term acquisitions	10,000,000	5,000,000	5,000,000	20,000,000	-	-	-	20,000,000	20,000,000
Sub total programme 4	**18,575,000**	**8,900,000**	**6,700,000**	**34,175,000**	**-**	**-**	**-**	**34,175,000**	**34,175,000**
				-					
Programme 5				-	-	-	-	-	
Civic Amenity & Recycling Centre at Clutterland	1,000,000	3,000,000		4,000,000	-	3,000,000	1,000,000	-	4,000,000
Boherhabreena Burial Ground	320,000			320,000	-	-	320,000	-	320,000
Sub total programme 5	**1,320,000**	**3,000,000**		**4,320,000**	**-**	**3,000,000**	**1,320,000**	**-**	**4,320,000**
				-					
Programme 6				-	-	-	-	-	
Regional Library (Liffey Valley) for N.Clondalkin/ Palmerstown		4,000,000	4,000,000	8,000,000	-	8,000,000	-	-	8,000,000
Digital Hub, Palmerstown	1,000,000			1,000,000	-	-	-	1,000,000	1,000,000
Ballyroan Library Extension	1,000,000	3,000,000		4,000,000	-	4,000,000	-	-	4,000,000
Lucan Sports and leisure Centre	2,000,000	12,500,000		14,500,000	2,000,000	3,809,214	-	8,690,786	14,500,000
Ballycragh Community Centre	1,000,000	600,000		1,600,000	800,000	200,000	600,000	-	1,600,000
Kiltalown House	135,000			135,000	-	-	135,000	-	135,000
Jobstown Youth Drop in Centre	3,000,000			3,000,000	-	2,100,000	-	900,000	3,000,000
Ballyroan Community Centre	700,000	500,000		1,200,000	-	200,000	-	1,000,000	1,200,000
Palmerstown Community Centre	300,000	600,000		900,000	-	-	-	900,000	900,000
South West Clondalkin Community Centre	1,500,000	1,550,000		3,050,000	550,000	500,000	-	2,000,000	3,050,000
Ballyroan Pastoral Centre	500,000	1,000,000		1,500,000	-	-	-	1,500,000	1,500,000
Music Studio		1,000,000		1,000,000	-	1,000,000	-	-	1,000,000
Grange Castle Golf Course			250,000	250,000	-	-	-	250,000	250,000

Detail per programme group of projects planned but subject to availability of funding 2008-2010

	Expenditure								
PROGRAMME GROUP	**2008**	**2009**	**2010**	**Total 2008 - 2010**	**Total Levies**	**Total Grants**	**Total Revenue**	**Total Disposals**	**Total**
Sports Capital Grants			1,000,000	1,000,000	350,000	650,000	-	-	1,000,000
Parks Improvements Works			4,500,000	4,500,000	2,500,000	-	-	2,000,000	4,500,000
Playgrounds			850,000	850,000	650,000	200,000	-	-	850,000
Other Capital			400,000	400,000	-	400,000	-	-	400,000
Sub total programme 6	**11,135,000**	**24,750,000**	**11,000,000**	**46,885,000**	**6,850,000**	**21,059,214**	**735,000**	**18,240,786**	**46,885,000**
				-					
Overall totals	**41,186,893**	**77,052,109**	**74,110,897**	**192,349,899**	**40,557,921**	**38,557,854**	**10,327,851**	**102,906,273**	**192,349,899**

Development Levies

PROGRAMME GROUP	Contracts	Commitments	Planned	Totals	Percentage
Programme 1	-	-	-	-	
Programme 2	39,375,801	24,345,000	13,850,000	77,570,801	**53%**
Programme 3	9,820,582	16,250,610	19,857,921	45,929,113	**31%**
Programme 4	-	-	-	-	
Programme 5	-	4,300,000	-	4,300,000	**3%**
Programme 6	2,418,218	9,800,000	6,850,000	19,068,218	**13%**
Totals	**51,614,601**	**54,695,610**	**40,557,921**	**146,868,132**	**100%**

PROGRAMME GROUP 3

THREE YEAR CAPITAL PROGRAMME 2007-2009

		Projected Expenditure 2007-2009					*2007-2009 FUNDED BY*				
DESCRIPTION	**2,006**	**2007**	**2008**	**2009**	**Total**	**Funding**	**Levies**	**Agency Work**	**Water Pricing**	**Grants**	**Total**
Water and Drainage Design											
Boherboy Water Supply Scheme	€1,007,323	€10,000,000	€16,000,000	€4,500,000	**€30,500,000**	20% WP, 70.83% Grants, 9.17% Levies	€2,795,833		€6,100,000	€21,604,167	**€30,500,000**
Lucan/Palmerstown WSS	€150,000	€150,000	€0	€0	**€150,000**	20%WP, 80% Grants	€0		€30,000	€120,000	**€150,000**
Gr. Dublin Drainage 9B Scheme	€20,000	€1,000,000	€5,000,000	€4,980,000	**€10,980,000**	20%WP, 32% Grants, 48% Levies (SLI Scheme)	€5,270,400		€2,196,000	€3,513,600	**€10,980,000**
Griffeen Flood Alleviation	€17,000	€0	€0		**€0**						
Dodder Valley FS Improvement Sch.	€20,000	€1,000,000	€7,000,000	€8,000,000	**€16,000,000**	Ditto	€7,680,000		€3,200,000	€5,120,000	**€16,000,000**
Saggart/Rathcoole New Foul Main Drain.	€150,000	€0	€0		**€0**						
Saggart/Rathcoole Drain Coll Improvement Sch.	€400,000	€1,000,000	€5,000,000	€5,000,000	**€11,000,000**	Ditto	€5,280,000		€2,200,000	€3,520,000	**€11,000,000**
***Tobermaclugg Pumping Station**	€1,452	€1,600,000	€1,080,000		**€2,680,000**	Developer led				€2,680,000	**€2,680,000**
***Tobermaclugg Rising Main & Gravity Sewers**		€1,768,000	€400,000		**€2,168,000**	Ditto				€2,168,000	**€2,168,000**
***Tobermaclugg Stream Improvement Scheme**		€800,000	€580,000		**€1,380,000**	Ditto				€1,380,000	**€1,380,000**
TOTAL	**€1,765,775**	**€17,318,000**	**€35,060,000**	**€22,480,000**	**€74,858,000**		**€21,026,233**		**€13,726,000**	**€40,105,767**	**€74,858,000**
***For developer led projects Council expenditure 40% of total expenditur**											

	Projected Expenditure							**Funding**			
DESCRIPTION	**2006**	**2007**	**2008**	**2009**	**TOTAL (2007-2009)**	**Levies**	**Agency Work**	**Water Pricing**	**Grants**	**TOTAL**	
Water Network Management (Roads Schemes)											
Green Route Completior	115790.7692	385,969			**385,969**	308775		77194		**385969**	
Firhouse Rd.	70,560	211,680			**211,680**		211680			**211680**	
Outer Ring Road Phase 2	599,040	49,920			**49,920**	39936		9984		**49920**	
Greenhills/Ballymount Rd Reconfig (Limekiln + QBC + Greenhills + Robinhood Rd)		112,811	310,229		**423,040**		423040			**423040**	
Nangor Rd extension & Baldonnel Rd. lin		716,800	268,800		**985,600**	788480		197120		**985600**	
Knocklyon Rd.		103,040	44,160		**147,200**	117760		29440		**147200**	
Belgard Rd to Citywest (Belgard to Cookstown 400main)		200,084	145,516		**345,600**		345600			**345600**	
Belgard to Citywest (Cookstown Road to Outer Ring Rd. Phase 3.)		217,234	543,086		**760,320**		760320			**760320**	
Lucan/Newcastle Rd realignment . (Finnstown House to Milltown)		551,467	1,102,933		**1,654,400**	1323520		330880		**1654400**	
N82 replacement to Fortunestown Lane	196,493	381,427			**381,427**	381427				**381427**	
Moorefield to Cloverhill Rd					**0**	0		0		**0**	
Moorefield to Foxdene, Eskel					**0**		0			**0**	
Western Way - Peamount Road to Celbridge Road + Link to Milltown.			136,893	1,642,712	**1,779,604**	1423683		355921		**1779604**	
Newcastle East By Pass Peamount Road to College Lane.		663,893	1,327,787		**1,991,680**	1593344		398336		**1991680**	
Knockmitten Lane, Western Ind. Est		48,960			**48,960**		48960			**48960**	
Cookstown Lane		119,040			**119,040**	95232		23808		**119040**	
Stoney Lane		18,688	74,752		**93,440**	74752		18688		**93440**	
Stocking Lane				45,440	**45,440**	36352		9088		**45440**	
Whitechurch Road				76,198	**76,198**		76198			**76198**	
Barton Road Extension				146,598	**146,598**	117278		29320		**146598**	
Outer Ring Road to Adamstown Link Road	545,045	181,682			**181,682**	181682				**181682**	
QBC - Link Newlands Cross to Road crossing off 18* on the Naas Rd. at Heitons.					**0**	0		0		**0**	
Alpine Heights to Grange castle					**0**	0		0		**0**	
QBC - Lucan to Newcastle Castle Rd. (Superquinn)		40,533	81,067		**121,600**		121600			**121600**	
QBC - Lucan to Newcastle Castle Rd. (Superquinn)		30,400	60,800		**91,200**		91200			**91200**	
N4- Lucan Bypass:-					**0**					**0**	
Replace ex pipe		*991,680*	*991,680*		***1,983,360***		*1983360*			***1983360***	
Lay new mains		*568,320*	*568,320*		***1,136,640***	*909312*		*227328*		***1136640***	
Total Water Network Management (Road Schemes)	1,526,928	5,593,628	5,656,023	1,910,947	**13,160,597**	**7,391,534**	**4,061,958**	**1,707,106**	**0**	**13,160,597**	

Water Conservation Prog 2006											
Subdivision of DMAs , PRVs etc	96,000	561,450			**561,450**	56,145			505305	**561,450**	
Total Water Conservation Prog 2006	96,000	561,450	0	0	**561,450**	56,145			505305	**561,450**	
Non Domestic Metering Project											
Project	1,700,000	4,300,000	2,000,000		**6,300,000**			5,687,640	612,360	**6,300,000**	
Enabling Network Management		1,365,000			**1,365,000**	1,092,000		273000		**1,365,000**	
DRNDMP Total	1,700,000	5,665,000	2,000,000	0	**7,665,000**	**1,092,000**	**0**	**5,960,640**	**612,360**	**7,665,000**	
DRWCP Rehab. Schemes											
Baldonnell			658,000	658,000	**1,316,000**	131,600			1184400	**1,316,000**	
Red Cow			1,207,500	1,207,500	**2,415,000**	241,500			2173500	**2,415,000**	
Western IE			1,715,000	1,715,000	**3,430,000**	343,000			3087000	**3,430,000**	
Robinhood			1,460,500	1,460,500	**2,921,000**	292,100			2628900	**2,921,000**	
Total Rehab. Schemes			5,041,000	5,041,000	**10,082,000**	1,008,200	0	0	9,073,800	**10,082,000**	
TOTAL for Water Management Sectior	**3,322,928**	**11,820,078**	**12,697,023**	**6,951,947**	**31,469,047**	9,547,879	4,061,958	7,667,746	10,191,465	**31,469,047**	

		Projected Expenditure 2007-2009					***2007-2009 FUNDED BY***				
DESCRIPTION	**2006**	**2007**	**2008**	**2009**	**TOTAL (2007-2009)**	**Levies**	**Agency Work**	**Water Pricing**	**Grants**	**TOTAL**	
Water Maintenance - Upgrade											
Kilteel Road main extension, Rathcoole				69,000	**69,000**	55,200		13,800		**69,000**	
Kildare Route Project		150,000	150,000		**300,000**	300,000				**300,000**	
Tootenhill, Rathcoole	34,500							0		**0**	
West park Upgrade, Rathcoole	27,600							0		**0**	
Newlands Estate 150mm	27,000							0		**0**	
Peamount Hospital Link	48,250										
Farrells Caravan Park, Tay lane	67,500							0		**0**	
Enabling Work for Orbital QBC 9th Lock Rd/ Nangor Road	275,500							0		**0**	
St Brigid's Estate	195,400							0		**0**	
Shelton/Dangan Park	85,200							0		**0**	
St Patricks Cottages/Tara Hill	137,450							0		**0**	
Enabling Work for Orbital QBC 9th Lock Rd		64,800			**64,800**	51,840		12,960		**64,800**	
Fortfield Drive		57,200			**57,200**	45,760		11,440		**57,200**	
Fortfield Park		50,600			**50,600**	40,480		10,120		**50,600**	
Fortfield Avenue		46,200			**46,200**	36,960		9,240		**46,200**	
Perrystown DMA (Rockfield, Shelton Ave and Drive)		40,800			**40,800**	32,640		8,160		**40,800**	
168 to 192 Whitehall Road		28,800			**28,800**	23,040		5,760		**28,800**	
Aylmer Road	195,000	547,500			**547,500**	438,000		109,500		**547,500**	
Old Hill, Lucan		351,000			**351,000**	280,800		70,200		**351,000**	
Old Ballydowd, Lucan		213,000			**213,000**	170,400		42,600		**213,000**	
Milltown Tower Diversion, Newcastle Road			105,000		**105,000**	84,000		21,000		**105,000**	
Avondale Terrace, Walkinstowr			69,600		**69,600**	55,680		13,920		**69,600**	
Sarah Curran Ave			61,600		**61,600**	49,280		12,320		**61,600**	
College Drive			56,700		**56,700**	45,360		11,340		**56,700**	
Tara Hill main			46,200		**46,200**	36,960		9,240		**46,200**	
Sarsfield Park, Lucan			44,000		**44,000**	35,200		8,800		**44,000**	
Springbank			30,000		**30,000**	24,000		6,000		**30,000**	
Washington Lane			26,400		**26,400**	21,120		5,280		**26,400**	
1-6 Old Bawn Road			8,000		**8,000**	6,400		1,600		**8,000**	
Ballymace Green				86,160	**86,160**	68,928		17,232		**86,160**	
Ann Devlin Road (additional to 2005 scheme				46,080	**46,080**	36,864		9,216		**46,080**	
Marian Road				328,560	**328,560**	262,848		65,712		**328,560**	
Green hills Road				234,000	**234,000**	187,200		46,800		**234,000**	
Shelton & Dangan Park (additional to 2006 scheme)				156,000	**156,000**	124,800		31,200		**156,000**	
Water Course				12,000	**12,000**	9,600		2,400		**12,000**	
Butterfield Crescent				69,600	**69,600**	55,680		13,920		**69,600**	
Butterfield Drive				66,000	**66,000**	52,800		13,200		**66,000**	
Old Ballymount Lane				24,000	**24,000**	19,200		4,800		**24,000**	
Dodsborough				72,000	**72,000**	57,600		14,400		**72,000**	
Total Water Maint. Schemes	**1,093,400**	**1,549,900**	**597,500**	**1,163,400**	**3,310,800**	**2,708,640**	**0**	**602,160**	**0**	**3,310,800**	

		Projected Expenditure 2007-2009					***2007-2009 FUNDED BY***				
DESCRIPTION	**2006**	**2007**	**2008**	**2009**	**TOTAL**	**Levies**	**Agency Work**	**Water Pricing**	**Grants**	**TOTAL**	
Drainage Maintenance - Upgrade											
Camac Culvert	450,000										
Carraigmore	15,000										
Bohernabreena Burial Ground	174,000										
Beech Row Sewer Duplication		96,000			**96,000**	76,800		19,200		**96,000**	
Deansrath Depot - materials bay		50,000			**50,000**	50,000				**50,000**	
Kilmahuddrick Stream Regrading		30,000	10,000	20,000	**60,000**	60,000				**60,000**	
Cherryfield Halting Site		12,000			**12,000**		12,000			**12,000**	
St Lomans Halting Site		8,000			**8,000**		8,000			**8,000**	
Composite Samplers & Meters		100,000			**100,000**	80,000		20,000		**100,000**	

Raheen F/S Investigation		30,000			**30,000**	24,000		6,000		**30,000**	
Whitehall Road Flood Alleviation Scheme		200,000	300,000	200,000	**700,000**	560,000		140,000		**700,000**	
Monksfield F/S Investigation		25,000			**25,000**	20,000		5,000		**25,000**	
Backup Generator Civil Works		10,000	10,000	10,000	**30,000**	24,000		6,000		**30,000**	
Robinhood Stream Improvement Works		300,000	300,000	200,000	**800,000**	640,000		160,000		**800,000**	
Airton Rd Sewer		250,000	1,000,000	250,000	**1,500,000**	1,200,000		300,000		**1,500,000**	
Infiltration/Inflow investigative work		100,000	100,000	100,000	**300,000**	300,000				**300,000**	
Mogden AC telemetry & meters		209,633	209,633		**419,265**			419,265		**419,265**	
Station Road S/W			30,000		**30,000**	24,000		6,000		**30,000**	
Drainage GIS		300,000	500,000	500,000	**1,300,000**	1,300,000				**1,300,000**	
Kildare Route Project		150,000	150,000		**300,000**	300,000				**300,000**	
Fats, Oils, Grease (FOG)		100,000			**100,000**			100,000		**100,000**	
New Development Monitoring		300,000	500,000	500,000	**1,300,000**	1,300,000				**1,300,000**	
	639,000	**2,270,633**	**3,109,633**	**1,780,000**	**7,160,265**	**5,958,800**	**20,000**	**1,181,465**		**7,160,265**	
		Projected Expenditure 2007-2009				***2007-2009 FUNDED BY***					
DESCRIPTION	**2006**	**2007**	**2008**	**2009**	**TOTAL**	**Levies**	**Agency Work**	**Water Pricing**	**Grants**	**TOTAL**	
Mechanical Section Works											
(Drainage Pumping Stations											
Quarryvale P.S (Refurbishment)		**1,000,000**			**1,000,000**	800,000		200,000		**1,000,000**	
Johnstown P.S. (Refurbishment)			**1,000,000**		**1,000,000**	800,000		200,000		**1,000,000**	
Lucan Spa (Standby Generator)				**200,000**	**200,000**	160,000		40,000		**200,000**	
Esker P.S. (Replacement of pumps 1 & 2)				**250,000**	**250,000**	200,000		50,000		**250,000**	
										0	
Total Mechanical Schemes		**1,000,000**	**1,000,000**	**450,000**	**2,450,000**	**1,960,000**		**490,000**		**2,450,000**	
Overall Totals	**2006**	**2007**	**2008**	**2009**	**TOTAL**	**Levies**	**Agency Works**	**Water Pricing**	**Grants**	**TOTAL**	
Water & Drainage Design	**1,765,775**	**17,318,000**	**35,060,000**	**22,480,000**	**74,858,000**	**21,026,233**		**13,726,000**	**40,105,767**	**74,858,000**	
Water Network Management Section	**3,322,928**	**11,820,078**	**12,697,023**	**6,951,947**	**31,469,047**	**9,547,879**	**4,061,958**	**7,667,746**	**10,191,465**	**31,469,047**	
Drainage Maintenance	**639,000**	**2,270,633**	**3,109,633**	**1,780,000**	**7,160,265**	**5,958,800**	**20,000**	**1,181,465**	**0**	**7,160,265**	
Water Maintenance	**1,093,400**	**1,549,900**	**597,500**	**1,163,400**	**3,310,800**	**2,708,640**	**0**	**602,160**	**0**	**3,310,800**	
Mechanical Section		**1,000,000**	**1,000,000**	**450,000**	**2,450,000**	**1,960,000**		**490,000**		**2,450,000**	
TOTAL	**6,821,103**	**33,958,610**	**52,464,155**	**32,825,347**	**119,248,112**	**41,201,552**	**4,081,958**	**23,667,371**	**50,297,232**	**119,248,112**	

Infrastructural Projects - Internal / Intranet Tracking System. Projects identified under Wastewater Infrastructure / Water Quality.
Date of query – 30/11/07

My Projects:	
Project ID:	78
Department	Environment
Area	Lucan / Clondalkin
Title	Tobermaclugg Pumping Station
Location	Adamstown
Description	Wastewater pumping station serving Adamstown.
Category	Schemes under Construction
Funding	DEHLG/Developers
Owner	TOM MOYNE
Planning Reg	☐
Internal	☑
Members	☐
Press	☐
Public	☐
Updated:	14/11/2007
Updated By	TOM MOYNE

☐ Only Show Internal Comments

Draft Agreement expected end of November 2007.

Draft Agreement between SDCC and Chartridge being finalised by McCann Fizgerald and expected to be ready by 31/10/07

Construction commenced on-site late August 2007

Agreement between Council and Chartridge drawn up and signing expected in next three weeks.

Received qualified approval from DEHLG on 6th June 2007.

Awaiting DEHLG approval of Tender Report submitted on 27th April, 2007.

John O'Connor has accepted position of Tobermaclugg SRE

My Projects:	
Project ID:	77
Department	Environment
Area	Tallaght
Title	Saggart/Rathcoole/Newcastle Drainage Collection Scheme
Location	Saggart/Rathcoole/Newcastle
Description	Drainage Scheme including pumping station.
Category	Tender Documents Being Prepared
Funding	DEHLG/Levies
Owner	TOM MOYNE
Planning Reg	☐
Internal	☑
Members	☐
Press	☐
Public	☐
Updated:	14/11/2007
Updated By	TOM MOYNE

☐ Only Show Internal Comments

PPP report to be submitted to DEHLG by 30/11/07

PPP report to be finalised and submitted to DEHLG by the 31/10/07

Draft Water Pricing received from consultants.

DEHLG request Water Pricing Report which is being prepared by our Consultants Atkins

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Prepare Part 8 on receipt of DEHLG approval.

SDCC Part VIII system v1.0

My Projects:	
Project ID:	229
Department	Environment
Area	Terenure / Rathfarnham
Title	Whitehall Road Flood Alleviation Scheme
Location	Terenure
Description	Attenuation of Poddle river and separation of surface water from combined sewer
Category	Schemes At Design Stage
Funding	
Owner	TOM MOYNE
Planning Reg	☐
Internal	☐
Members	☐
Press	☐
Public	☐
Updated:	14/11/2007
Updated By	

☐ Only Show Internal Comments

Topographic Survey completed 31/10/07.

Survey submitted by FCG for comment on 17/09/07

Tenders received for Topographical Survey of Tymon Park received 16th April, 2007

SDCC Part VIII system v1.0

My Projects:	
Project ID:	232
Department	Strategic / Regional Projects
Area	Lucan / Clondalkin
Title	GDSDS - SEA (FCC)
Location	Greater Dublin Region
Description	Strategic Environmental Assessment of GDSDS
Category	Schemes At Concept Stage
Funding	DEHLG/Levies
Owner	TOM MOYNE
Planning Reg	☐
Internal	☑
Members	☐
Press	☐
Public	☐
Updated:	15/10/2007
Updated By	TOM MOYNE

☐ Only Show Internal Comments

Draft Environmental Report went on public display from 1st October,2007 until 30th November.

Regional SPC meeting on 24th Sept to discuss Final Scoping Report.

SDCC Part VIII system v1.0

My Projects:	
Project ID:	227
Department	Environment
Area	Tallaght
Title	Dodder Valley Catchment - Drainage Strategy Review
Location	South SDCC
Description	Foul Sewer Improvement Scheme
Category	Schemes At Concept Stage
Funding	
Owner	TOM MOYNE
Planning Reg	☐
Internal	☐
Members	☐
Press	☐
Public	☐
Updated:	14/11/2007
Updated By	TOM MOYNE

☐ Only Show Internal Comments

Design Brief to be submitted to DEHLG by 30/11/07.

Draft Design Brief for the appointment of Consultants being finalised and expect to submit to DEHLG by 31/10/07

Approval of Design Review approved by DEHLG on 15th May 2007.

Prepare Design Brief for appointment of consultants for preparation of Preliminary Report, Contract Documents and Supervision of Construction.

DEHLG approved Review Report on 15th May, 2007.

Awaiting DEHLG approval to go to detailed design stage - requested in our submission of 13th June 2005

SDCC Part VIII system v1.0

My Projects:	
Project ID:	228
Department	Environment
Area	Lucan / Clondalkin
Title	9B Foul Sewer Improvement Scheme
Location	North SDCC
Description	Foul Sewer Improvement Scheme
Category	Schemes At Concept Stage
Funding	
Owner	TOM MOYNE
Planning Reg	☐
Internal	☐
Members	☐
Press	☐
Public	☐
Updated:	14/11/2007
Updated By	TOM MOYNE

☐ Only Show Internal Comments

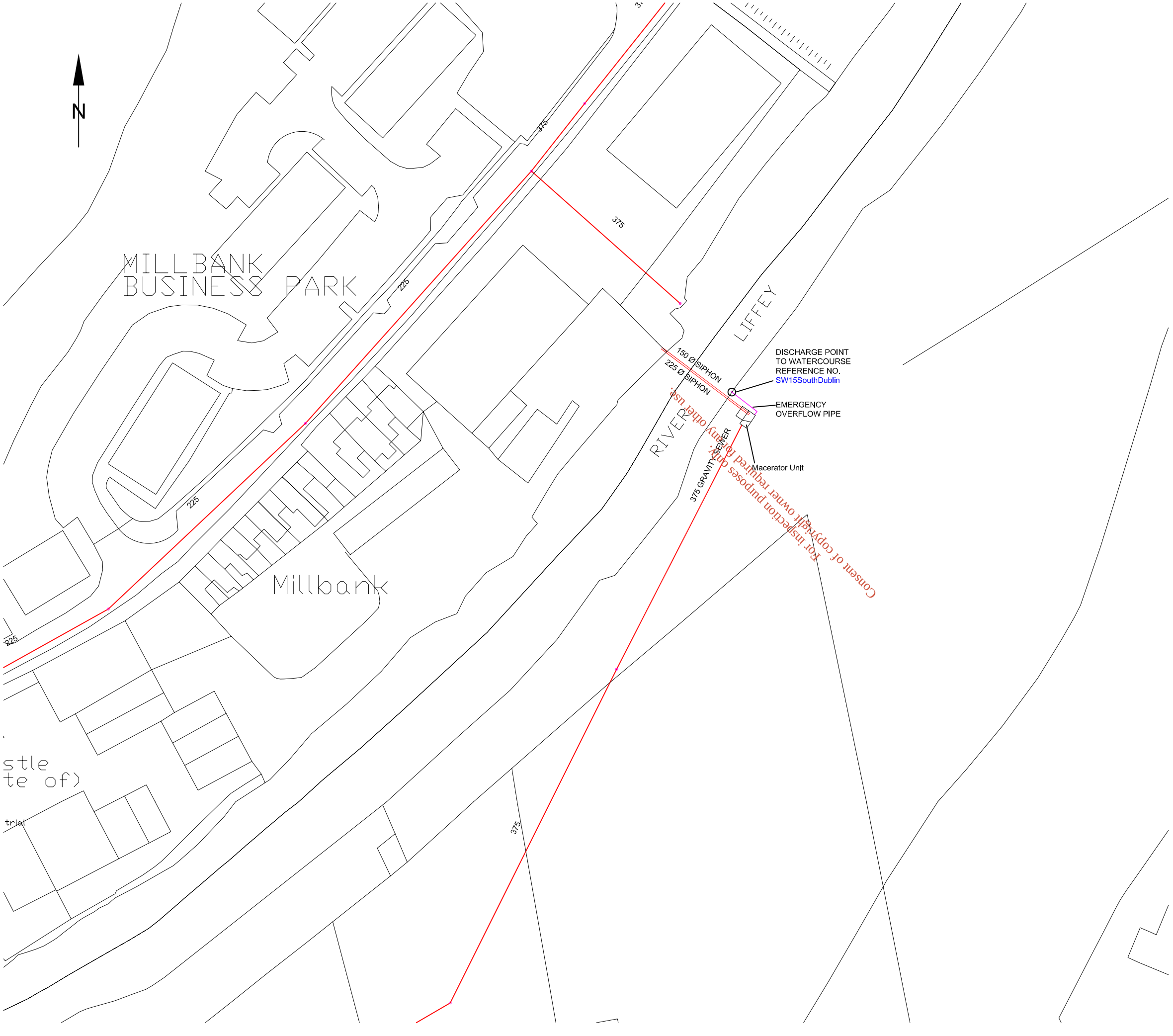
Design brief to be submitted to DEHLG by 30/11/07.

Awaiting comments from DCC.

Draft Design Brief incorporating new Conditions of Engagement submitted to DCC on 23rd August 2007.

Design Brief for Appointment of Consultants to be completed June 2007

SDCC Part VIII system v1.0



LEGEND :

SURFACE WATER SEWER

FOUL SEWER

EMERGENCY OVERFLOW PIPE

SW15SouthDublin DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
LIFFEY SIPHON (LUCAN)
ST EDMONDSBURY MUNCHER

Drg No.	O.S.	Drawn
SDCC SN 01	3194-D	ND
Scale	Date	Checked
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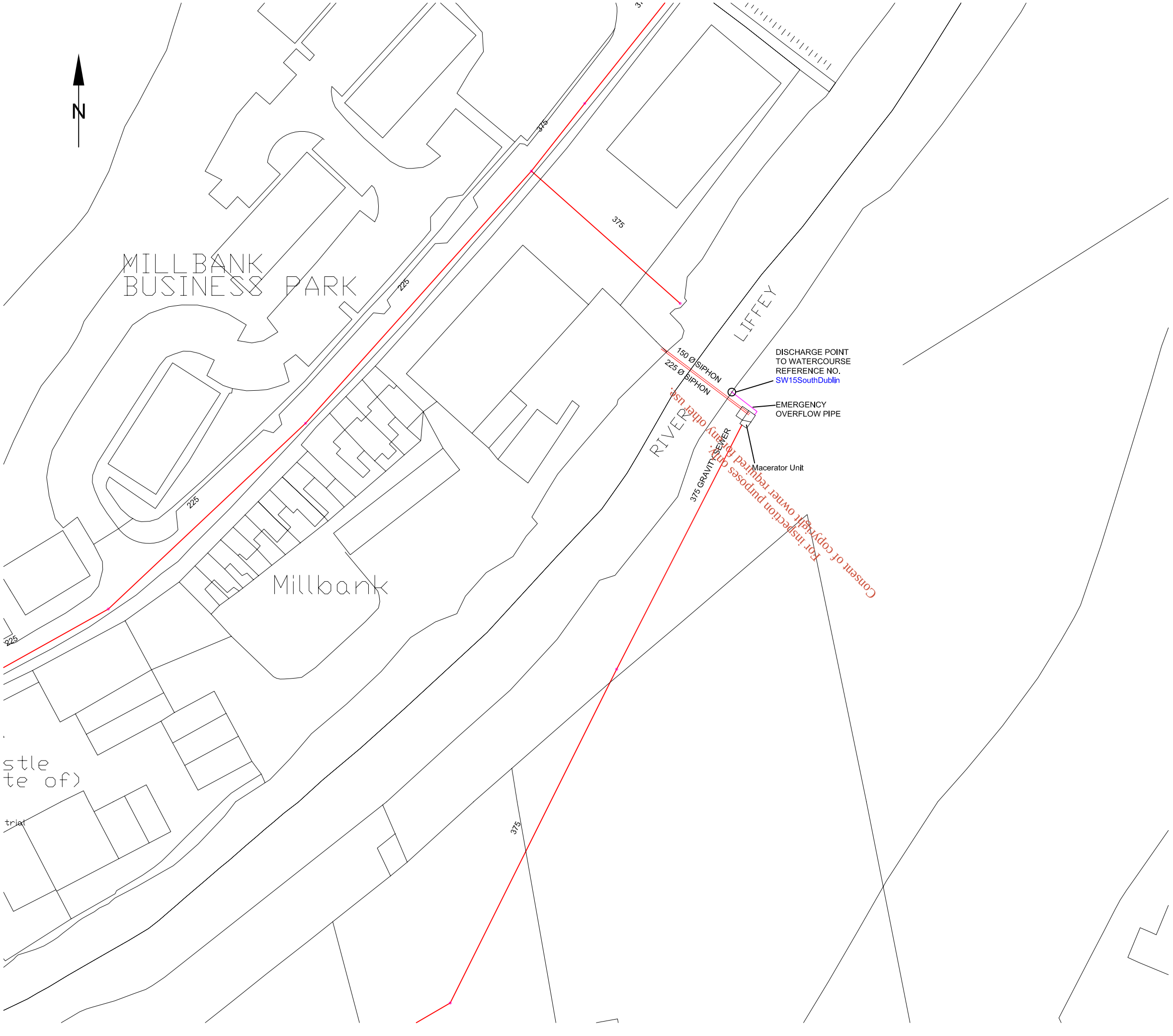


LEGEND :

SURFACE WATER SEWER

FOUL SEWER

EMERGENCY OVERFLOW PIPE

SW15SouthDublin DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

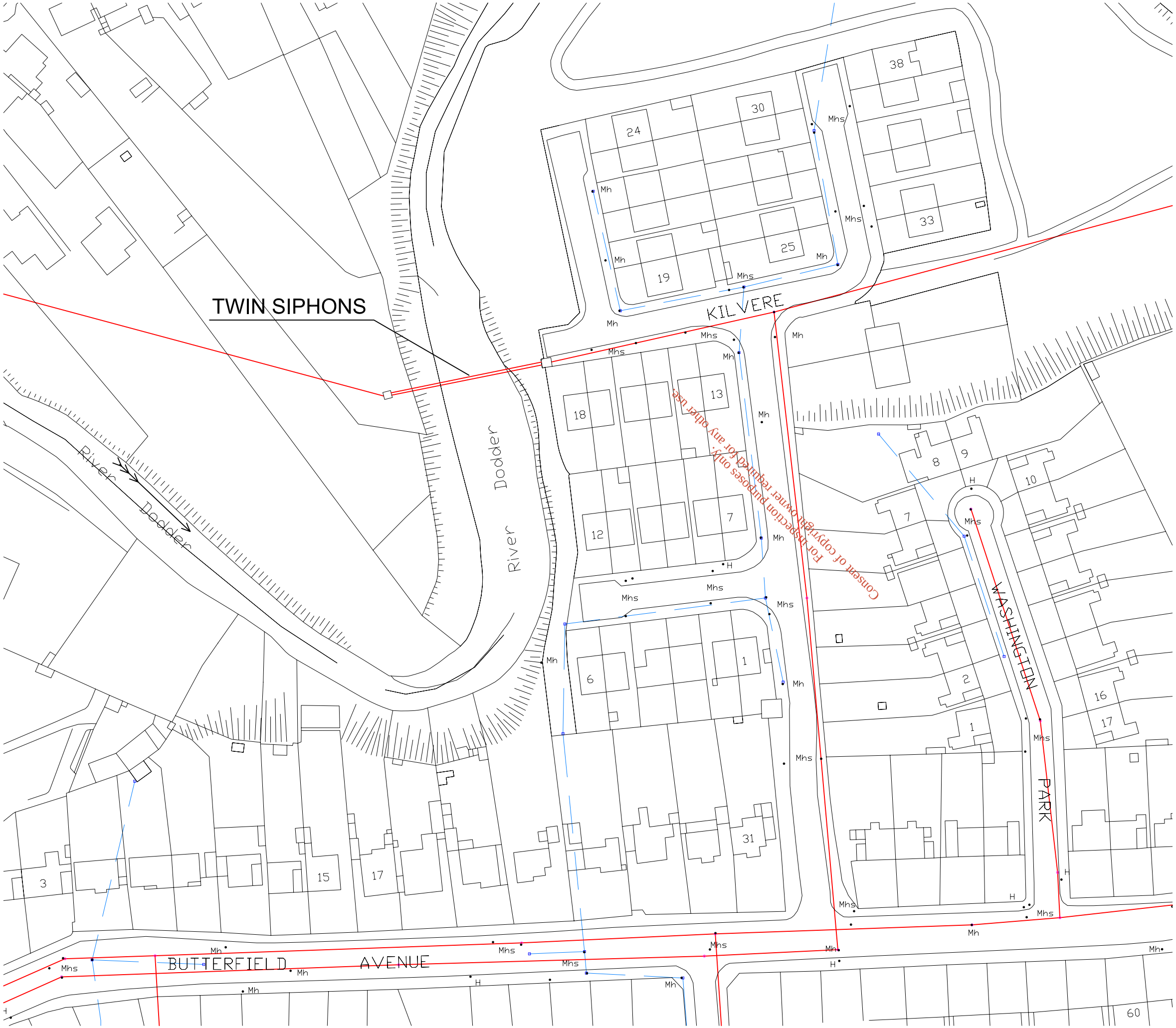
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
LIFFEY SIPHON (LUCAN)
ST EDMONDSBURY MUNCHER

Drg No.	O.S.	Drawn
SDCC SN 01	3194-D	ND
Scale	Date	Checked
1: 1000(A3)	April 2008	SD



LEGEND :

FOUL SEWER

SURFACE WATER SEWER

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

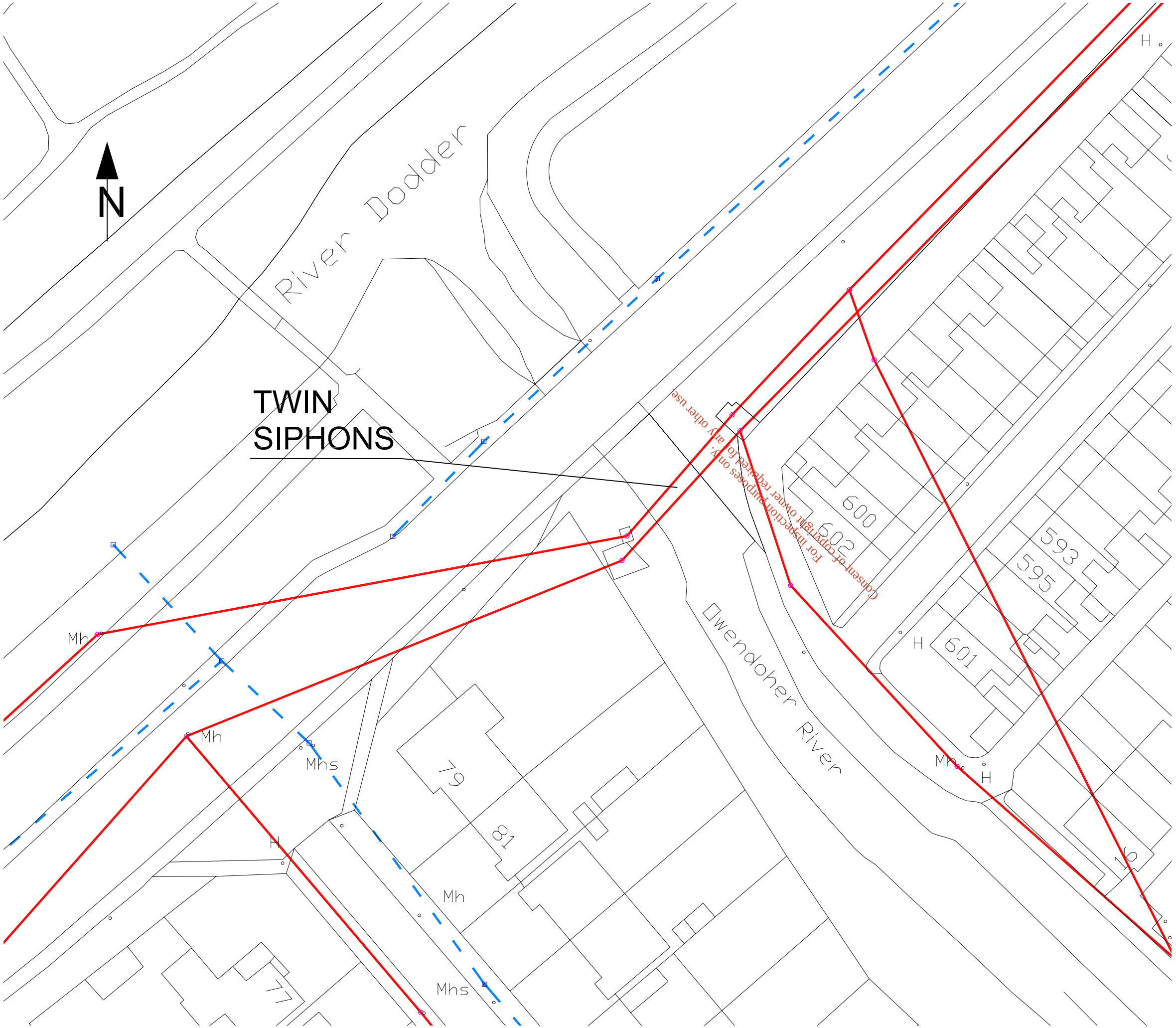
PROJECT

WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE

DODDER SIPHON (TEMPLEOGUE)

Drg No.	O.S.	Drawn
SDCC SN 02	3391-02	ND
Scale	Date	Checked
1:1000 (A3)	April 2008	SD



LEGEND :

FOUL SEWER

SURFACE WATER SEWER

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

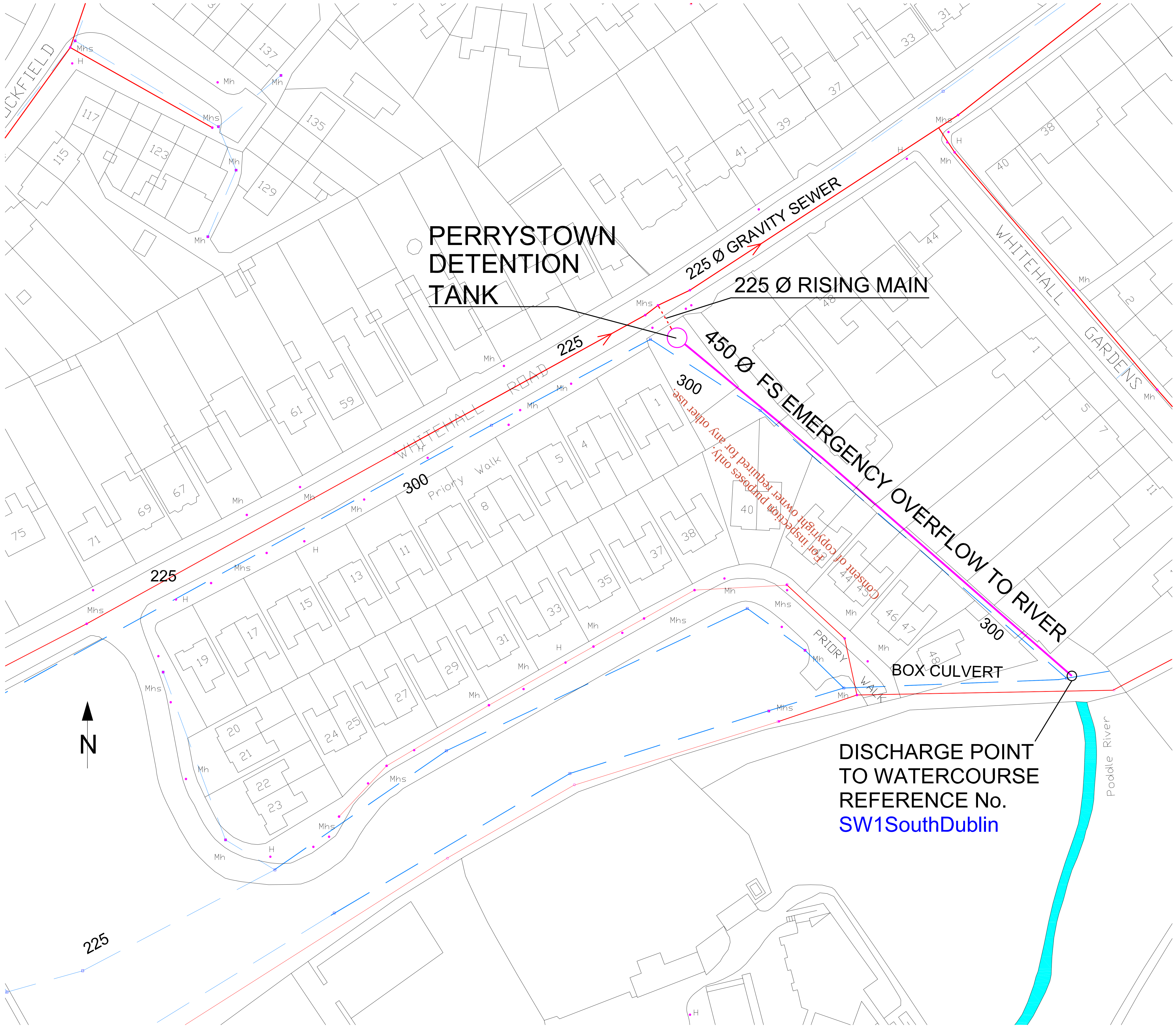
PROJECT

WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE

OWENDOHER SIPHONS (RATHFARNHAM)

Drg No.	O.S.	Drawn
SDCC SN 03	3391-03	ND
Scale	**Date**	**Checked**
1: 500 (A3)	April 2008	SD



LEGEND :

- SURFACE WATER SEWER
- PUMPING MAIN
- FOUL SEWER
- FS EMERGENCY OVERFLOW PIPE

DISCHARGE POINT TO WATERCOURSE REFERENCE No.
SW1SouthDublin

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
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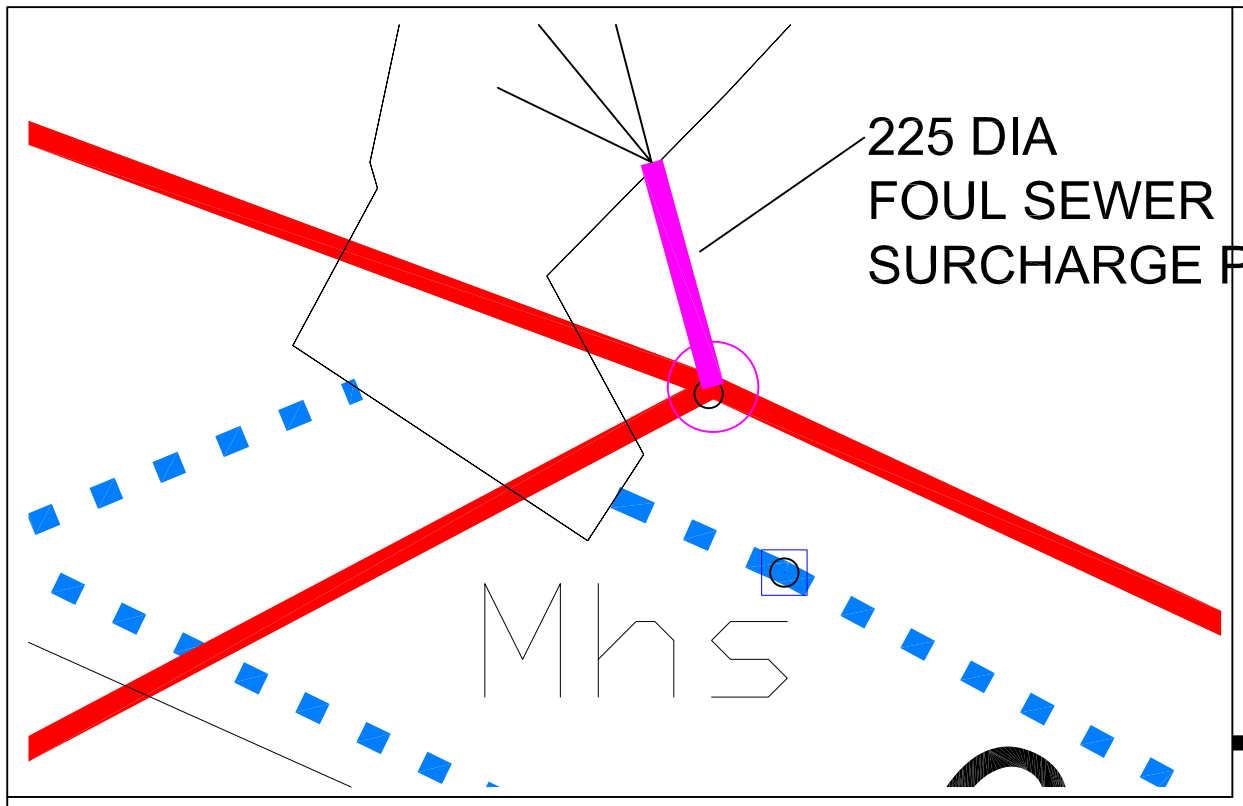
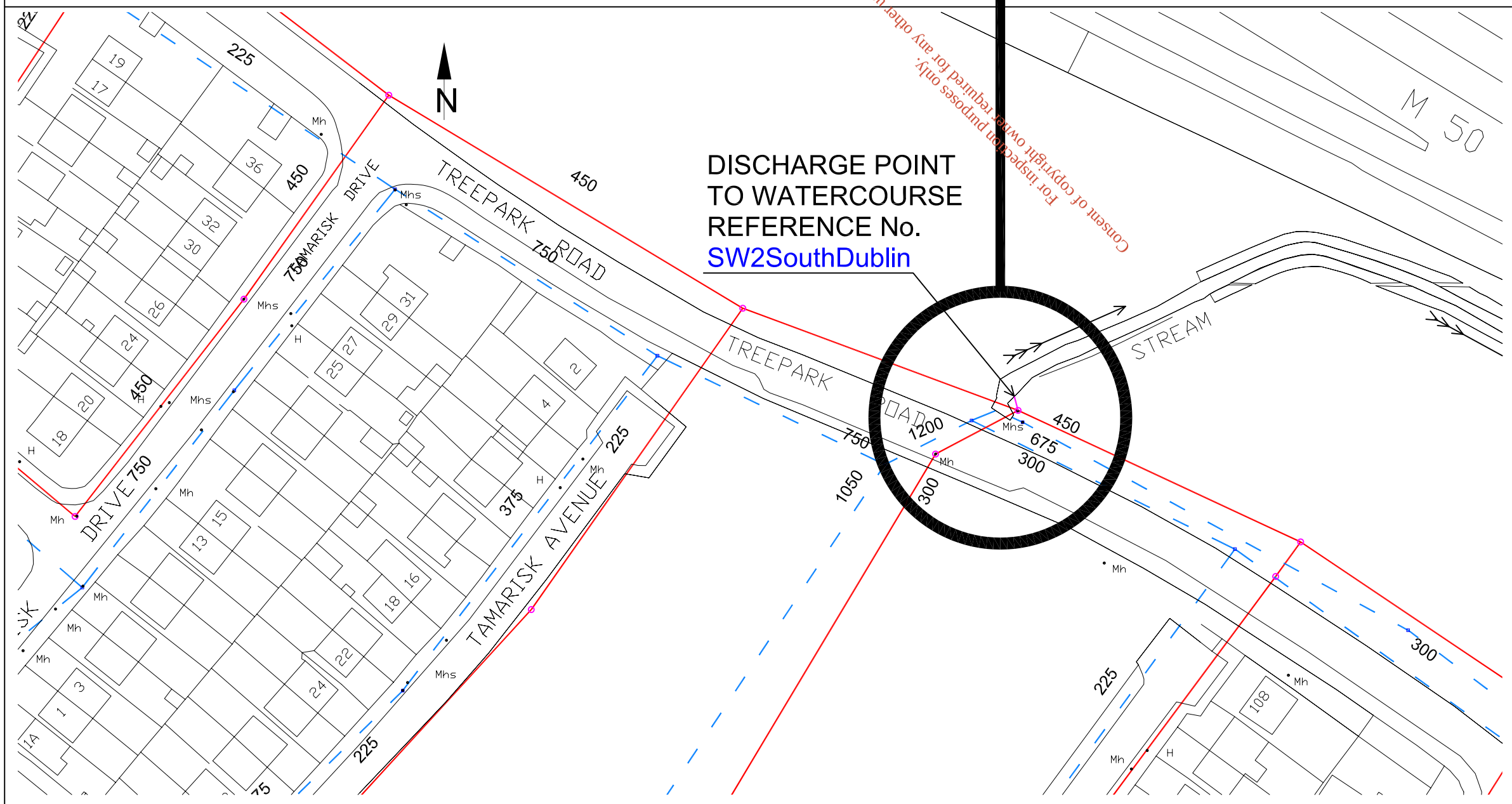
DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWAGE DETENTION TANK PERRYSTOWN

Drg No. SDCC SW001	O.S. 3328-11	Drawn ND
Scale 1: 1000 (A3)	Date April 2008	Checked SD





LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- FS SURCHARGE OVERFLOW PIPE
- SW2SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

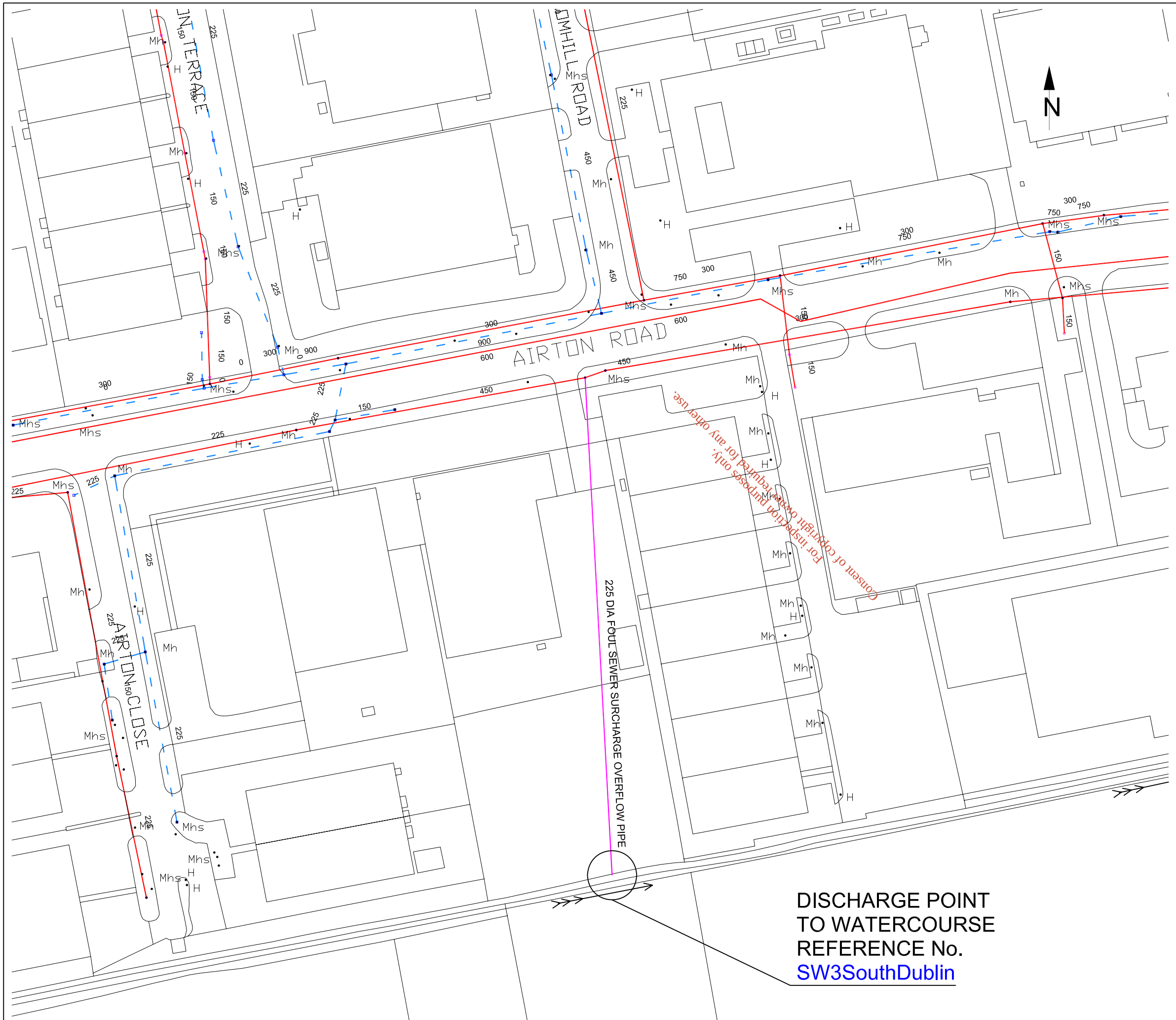
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE
OVERFLOW PIPE
TREEPARK ROAD TALLAGHT

Drg No.	O.S.	Drawn
SDCC SWO 02	3327-17 & 18 22 & 23	ND
Scale	**Date**	**Checked**
1:1000 (A3)	April 2008	SD



LEGEND :

SURFACE WATER SEWER

FOUL SEWER

FS SURCHARGE OVERFLOW PIPE

SW3SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE
OVERFLOW PIPE
AIRTON ROAD TALLAGHT

Drg No.	O.S.	Drawn
SDCC SWO 03	3390-07	ND
Scale	Date	Checked
1:1000 (A3)	April 2008	SD

AVONMORE PARK

AVONMORE GROVE

AVONMORE

AVONMORE ROAD

ROAD

River Dodder

N

DISCHARGE POINT
TO WATERCOURSE
REFERENCE No.
SW4SouthDublin

225 FS SURCHARGE PIPE
TO RIVER DODDER

LEGEND :

SURFACE WATER SEWER

FOUL SEWER

FS SURCHARGE OVERFLOW PIPE

SW4SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

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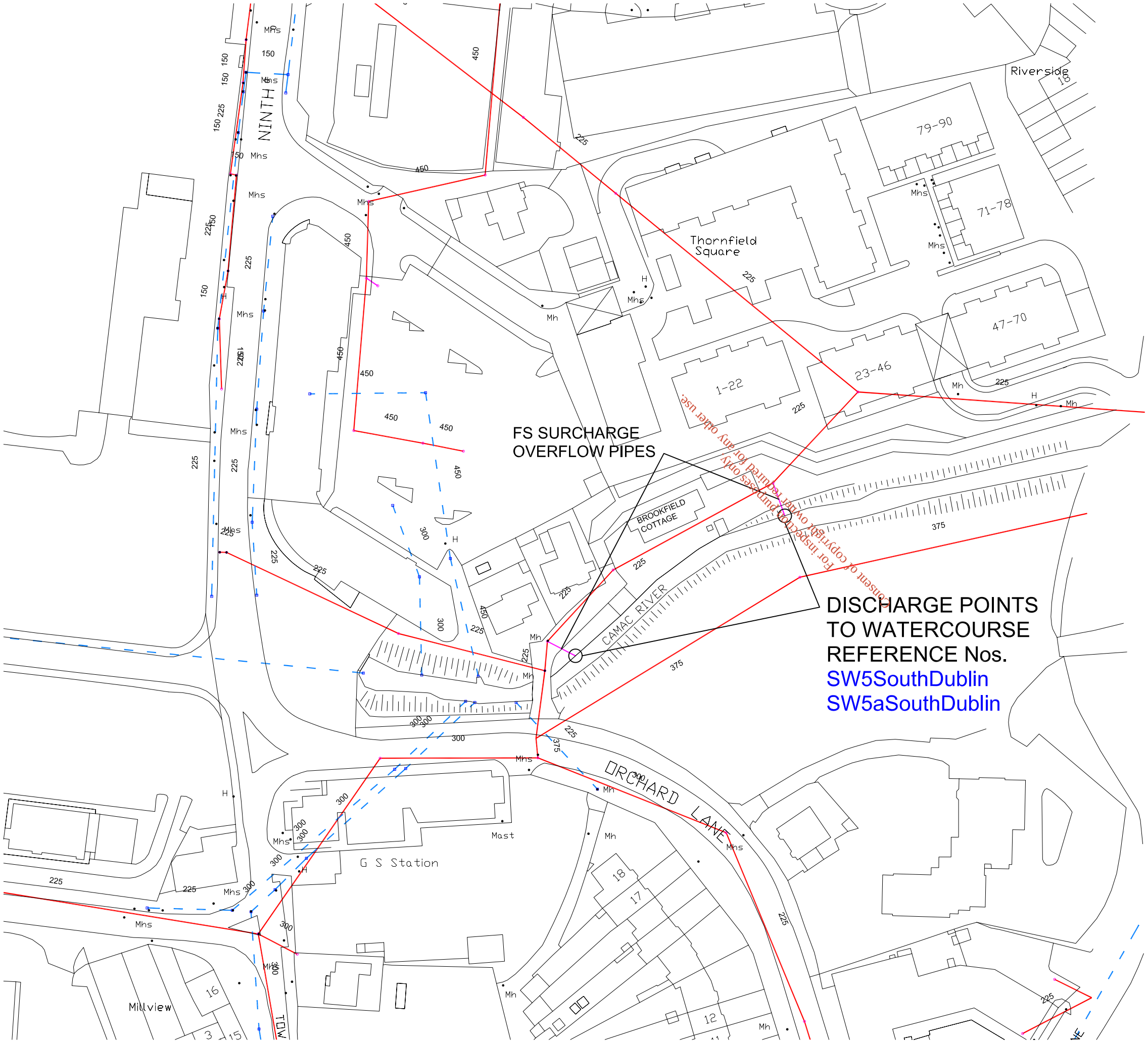
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE
OVERFLOW PIPE
AVONMORE ROAD TALLAGHT

Drg No.	O.S.	Drawn
SDCC SWO04	3390-13 & 14	ND
Scale	**Date**	**Checked**
1:1000 (A3)	April 2008	SD



LEGEND :

SURFACE WATER SEWER

FOUL SEWER

FS SURCHARGE OVERFLOW PIPE

SW5SouthDublin DISCHARGE POINT
SW5aSouthDublin TO WATERCOURSE REFERENCE Nos.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

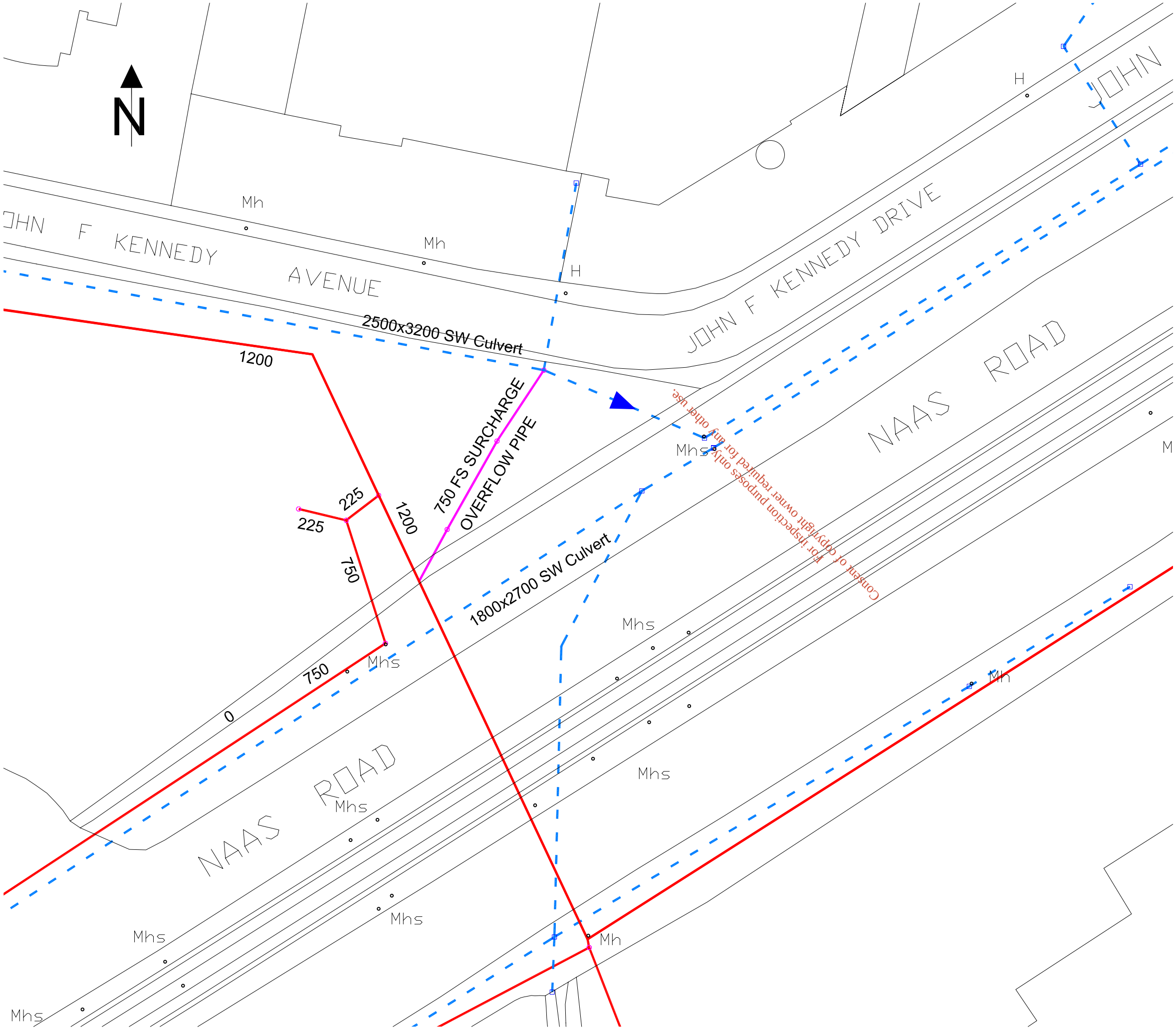
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE OVERFLOW PIPE
BROOKFIELD COTTAGE CLONDALKIN

Drg No.	O.S.	Drawn
SDCC SWO 05	3326-04	ND
Scale	Date	Checked
1:1000 (A3)	April 2008	SD



LEGEND :

	SURFACE WATER SEWER/CULVERT
	FOUL SEWER
	FS SURCHARGE OVERFLOW PIPE
SW6SouthDublin	SURFACE WATER DISCHARGE POINT TO WATERCOURSE REFERENCE No.
NOTE :	DISCHARGE POINT TO WATERCOURSE LOCATED IN DUBLIN CITY CO. AREA

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

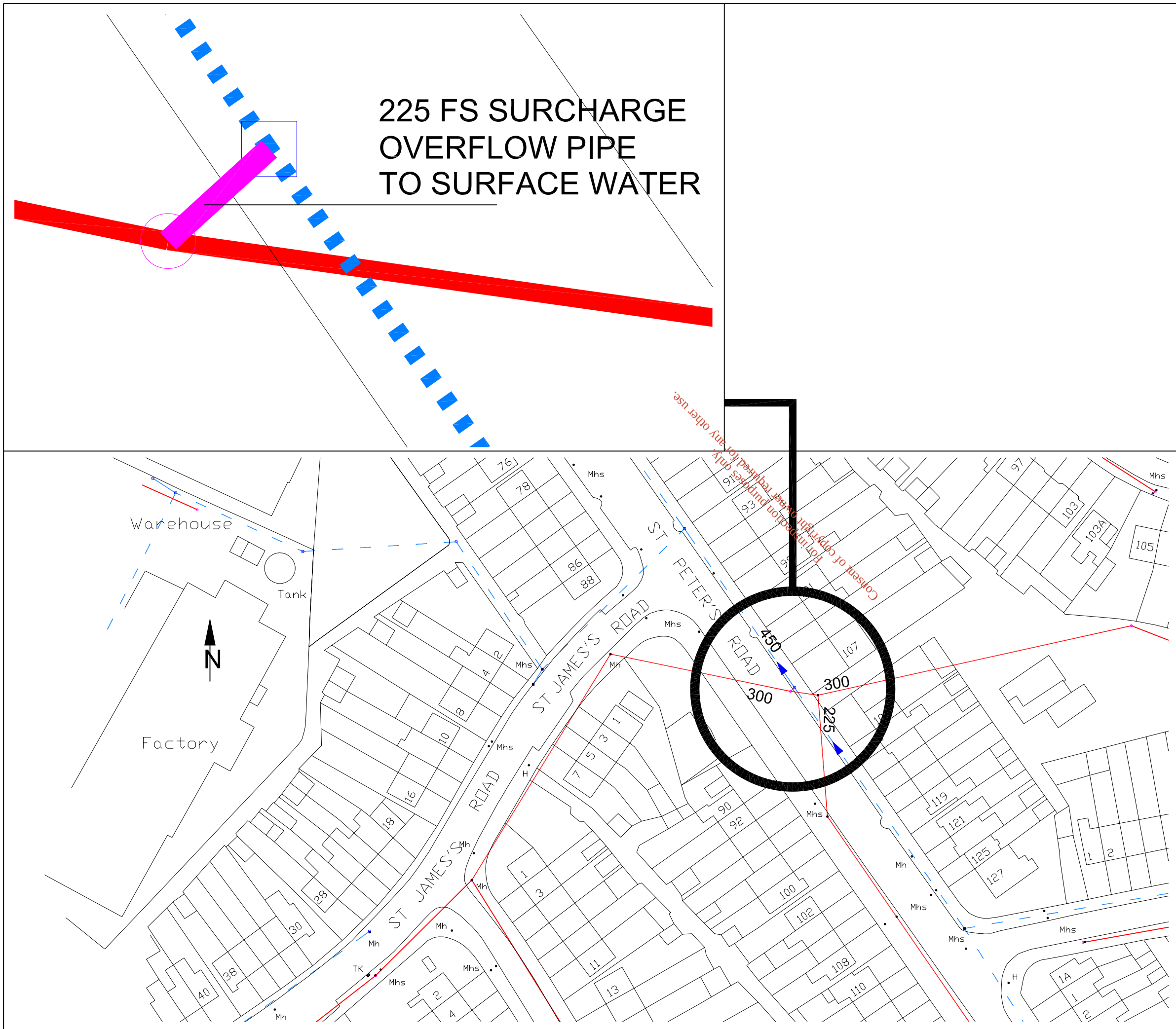
DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE OVERFLOW PIPE
HARRIS TRUCKS JFK IND EST NAAS ROAD

Drg No.	O.S.	Drawn
SDCC SWO 06	3327-03	ND
Scale 1: 500 (A3)	Date April 2008	Checked SD

225 FS SURCHARGE
OVERFLOW PIPE
TO SURFACE WATER



LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- FS SURCHARGE OVERFLOW PIPE

NOTE : SURFACE WATER DISCHARGE POINT LOCATED IN DUBLIN CITY CO. AREA.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

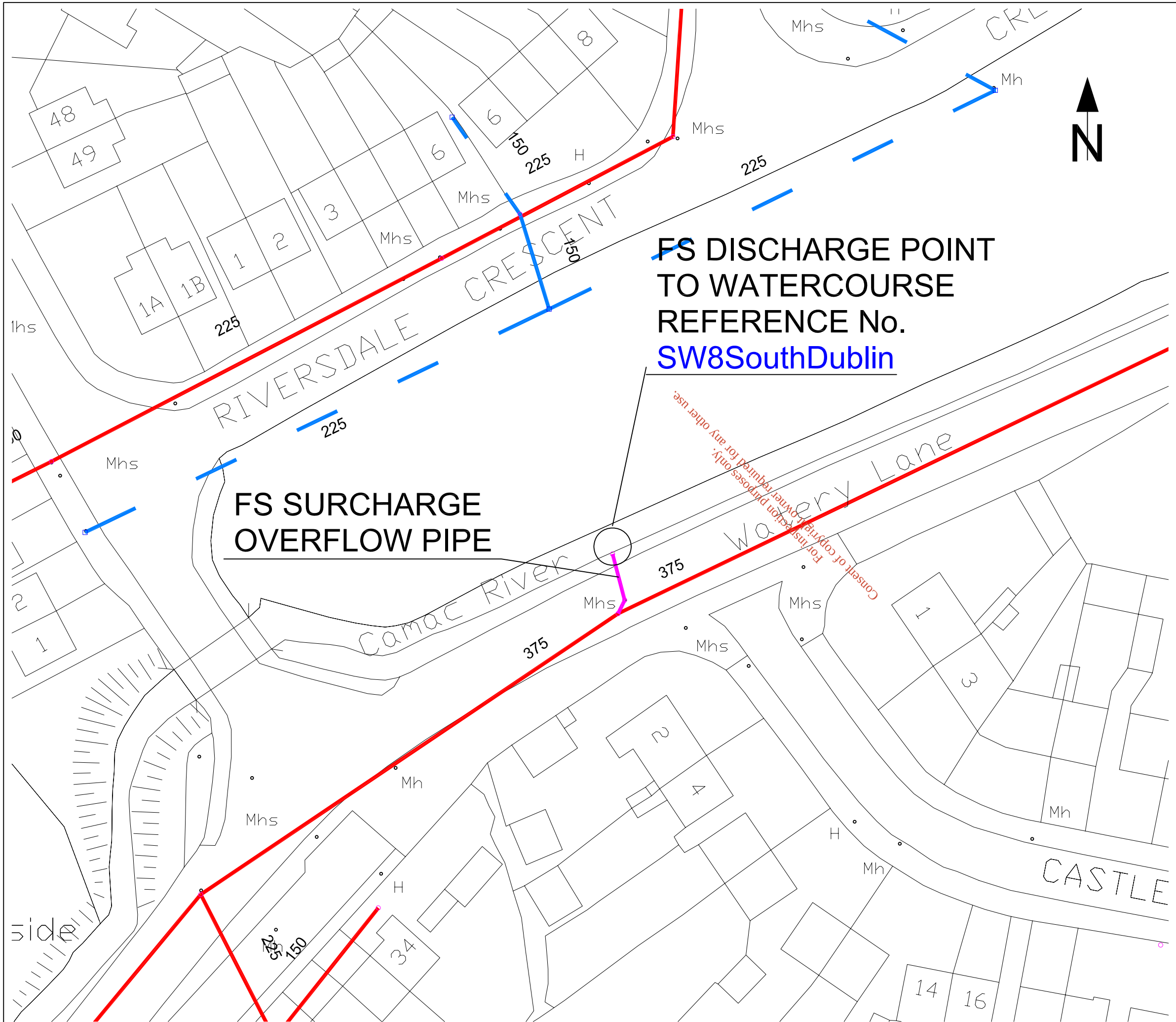
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE
OVERFLOW PIPE
ST PETER`S ROAD WALKINSTOWN

Drg No.	O.S.	Drawn
SDCC SWO 07	3327-15	ND
Scale	Date	Checked
1:1000 (A3)	April 2008	SD



LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- FS SURCHARGE OVERFLOW PIPE
- SW8SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE Nos.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE
OVERFLOW PIPE
CASTLE VIEW ROAD CLONDALKIN

Drg No.	O.S.	Drawn
SDCC SWO 08	3326-04	ND
Scale 1:500 (A3)	Date April 2008	Checked SD

N

SURFACE WATER DISCHARGE POINT TO WATERCOURSE REFERENCE No. SW9SouthDublin

1750

CUL DE SAC

1350 dia SW Culvert

1350 dia SW Culvert

OPEN DITCH

1350

225 FS Surcharge Overflow Pipe

225 FS to Pumping Stn

225

AYLMER ROAD

225 dia Gravity Foul Sewer

225

225

225

225

LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- FS SURCHARGE OVERFLOW PIPE
- SW9SouthDublin — SURFACE WATER DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

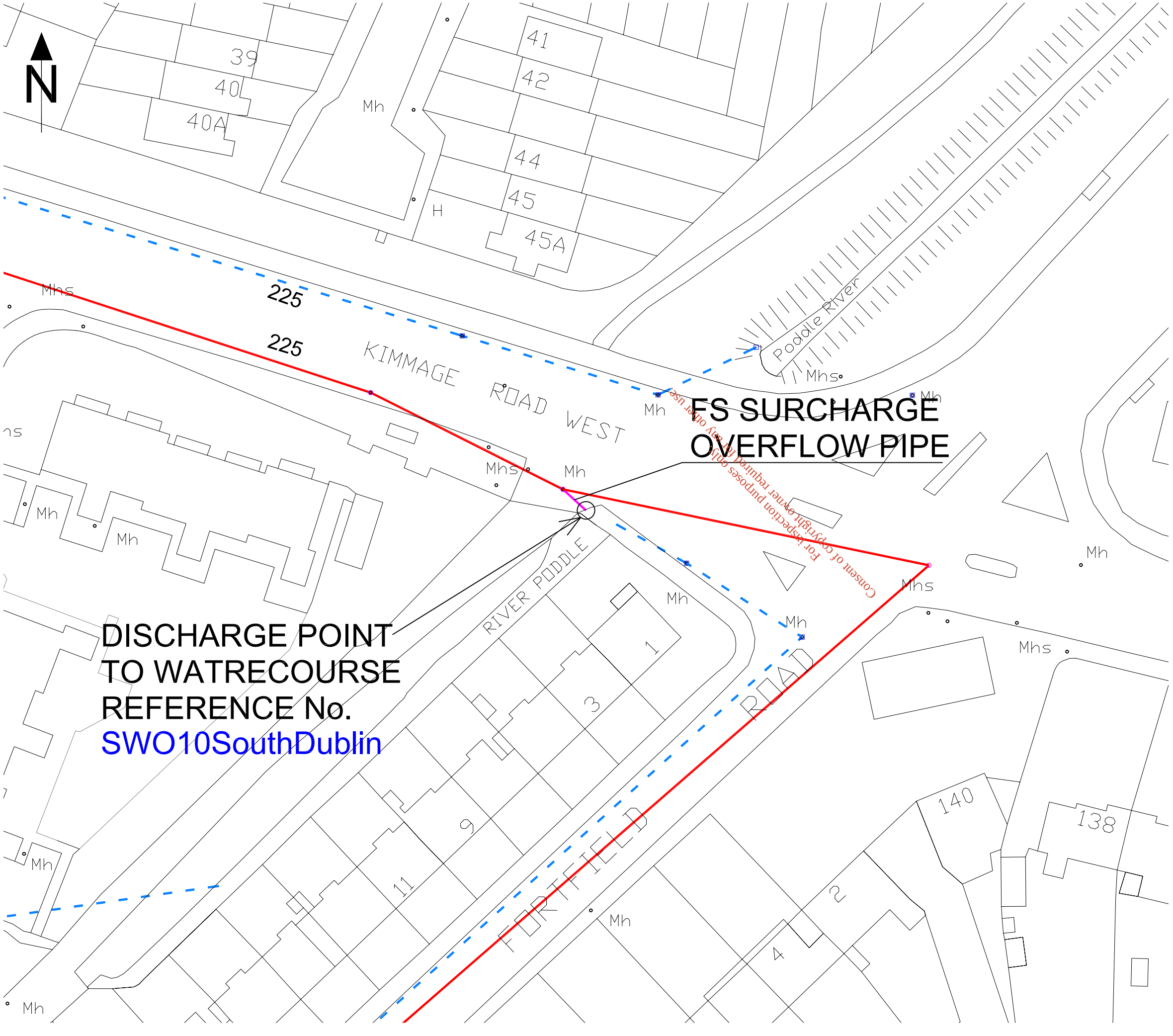
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE OVERFLOW PIPE
AYLMER ROAD NEWCASTLE

Drg No.	O.S.	Drawn
SDCC SWO 09	3388-A	ND
Scale 1:1000 (A3)	Date April 2008	Checked SD



LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- FS SURCHARGE OVERFLOW PIPE
- SW10SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

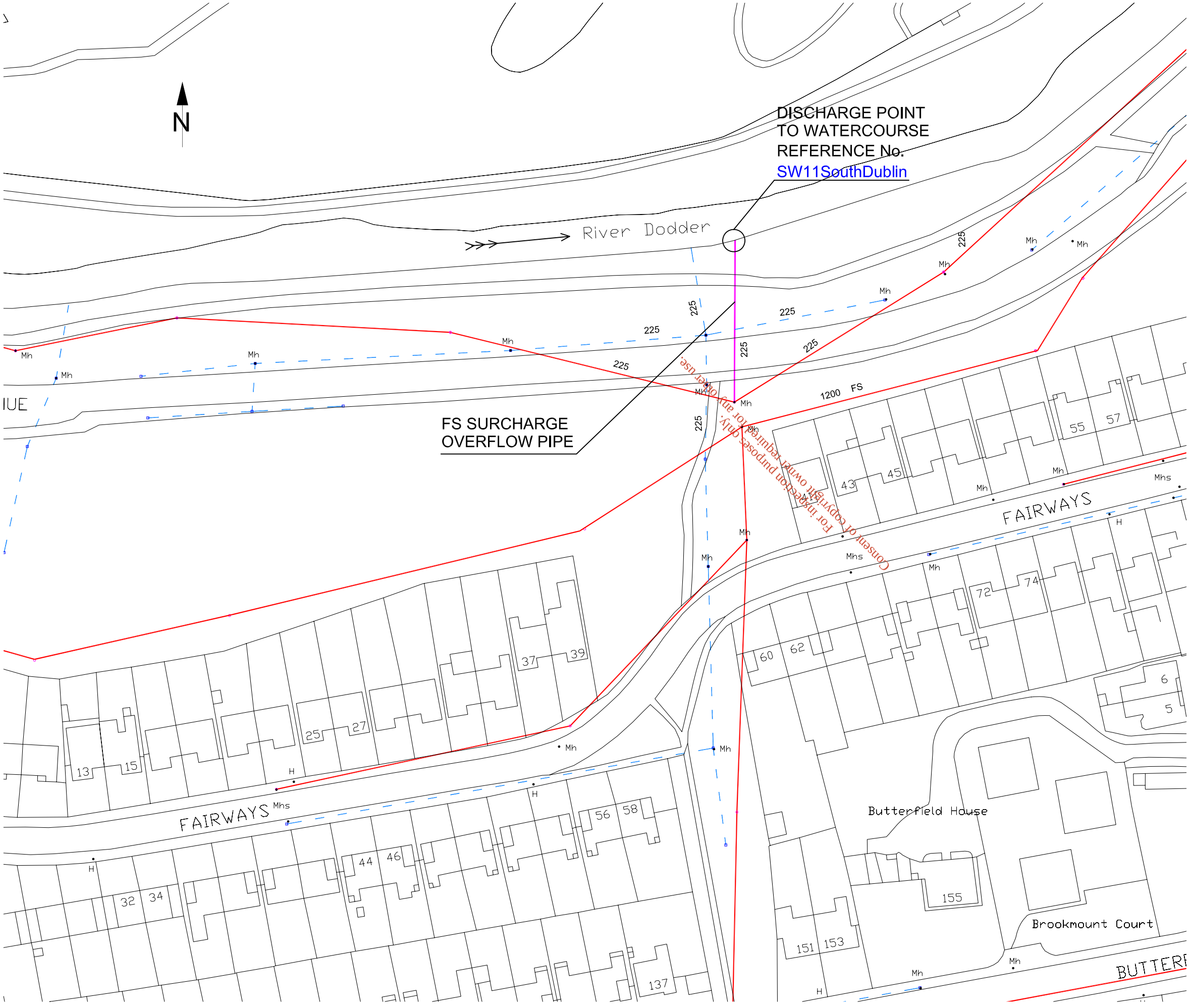
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE OVERFLOW PIPE
KIMMAGE ROAD WEST

Drg No.	O.S.	Drawn
SDCC SWO 10	3328-12	ND
Scale	Date	Checked
1: 500 (A3)	April 2008	SD



LEGEND :

SURFACE WATER SEWER

FOUL SEWER

FS SURCHARGE OVERFLOW PIPE

SW11SouthDublin DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

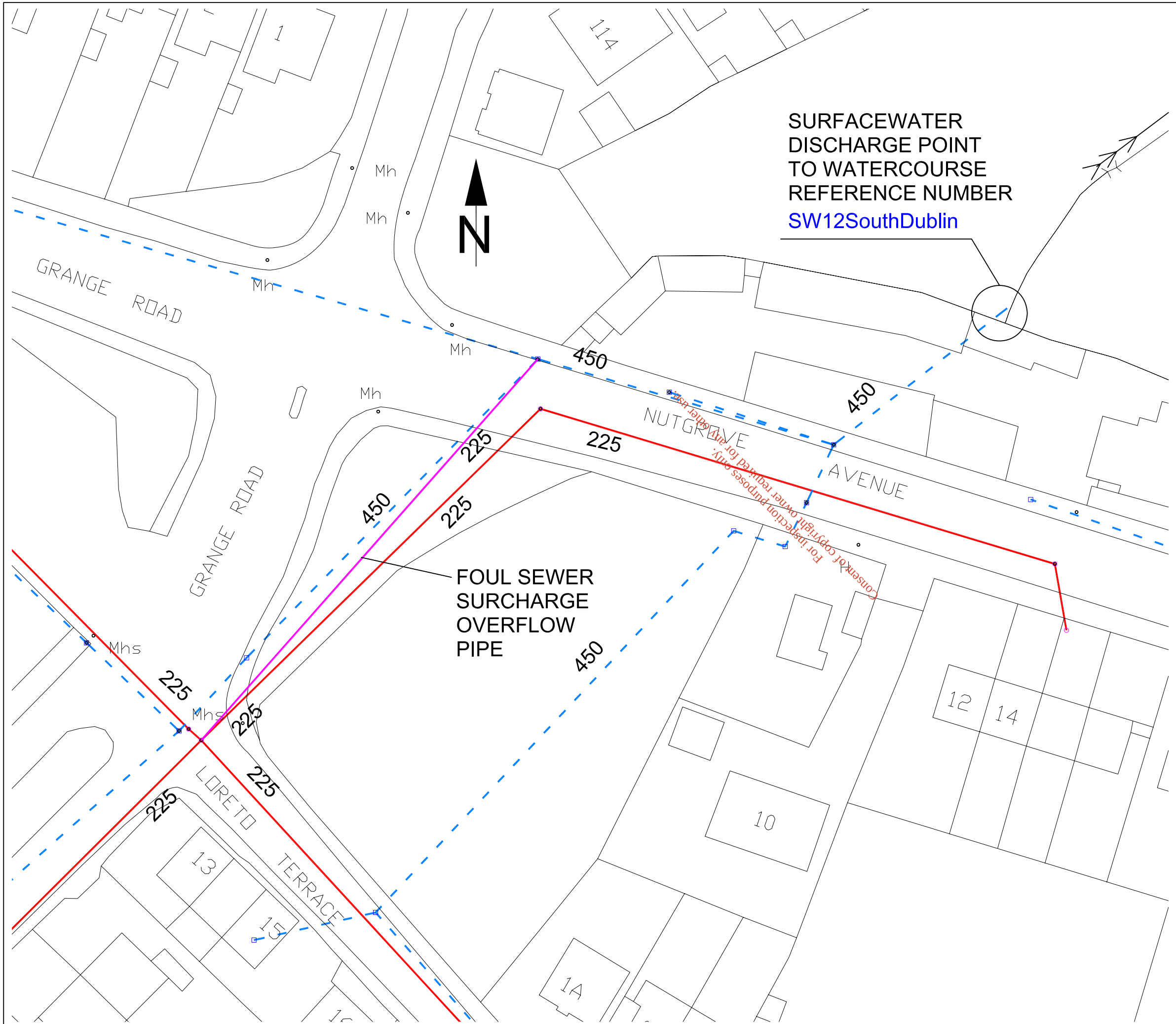
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE OVERFLOW PIPE
SPRINGFIELD AVE TEMPLEOGUE

Drg No.	O.S.	Drawn
SDCC SWO 11	3391-03	ND
Scale	Date	Checked
1: 1000 (A3)	April 2008	SD



LEGEND :

SURFACE WATER SEWER

FOUL SEWER

FS SURCHARGE OVERFLOW PIPE

SW12SouthDublin — SURFACEWATER DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

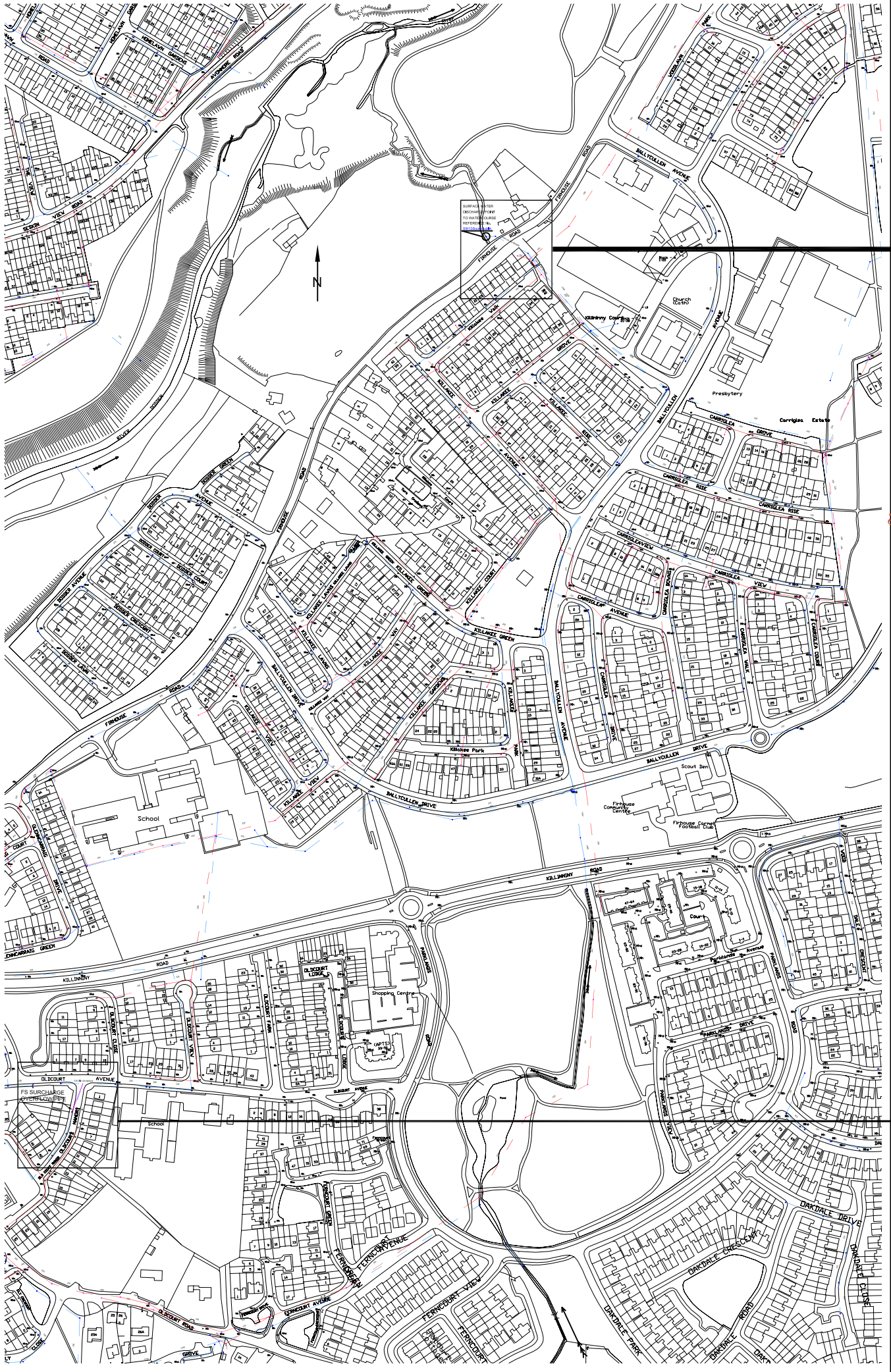
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER DISCHARGE
OVERFLOW PIPE
LORETO TCE RATHFARNHAM

Drg No.	O.S.	Drawn
SDCC SW 12	3391-04	ND
Scale	Date	Checked
1: 500 (A3)	April 2008	SD



LEGEND :

▬ ▬ ▬	SURFACE WATER SEWER
▬▬▬	FOUL SEWER
▬▬▬	FS SURCHARGE OVERFLOW PIPE
SW13SouthDublin	SURFACE WATER DISCHARGE POINT TO WATER COURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

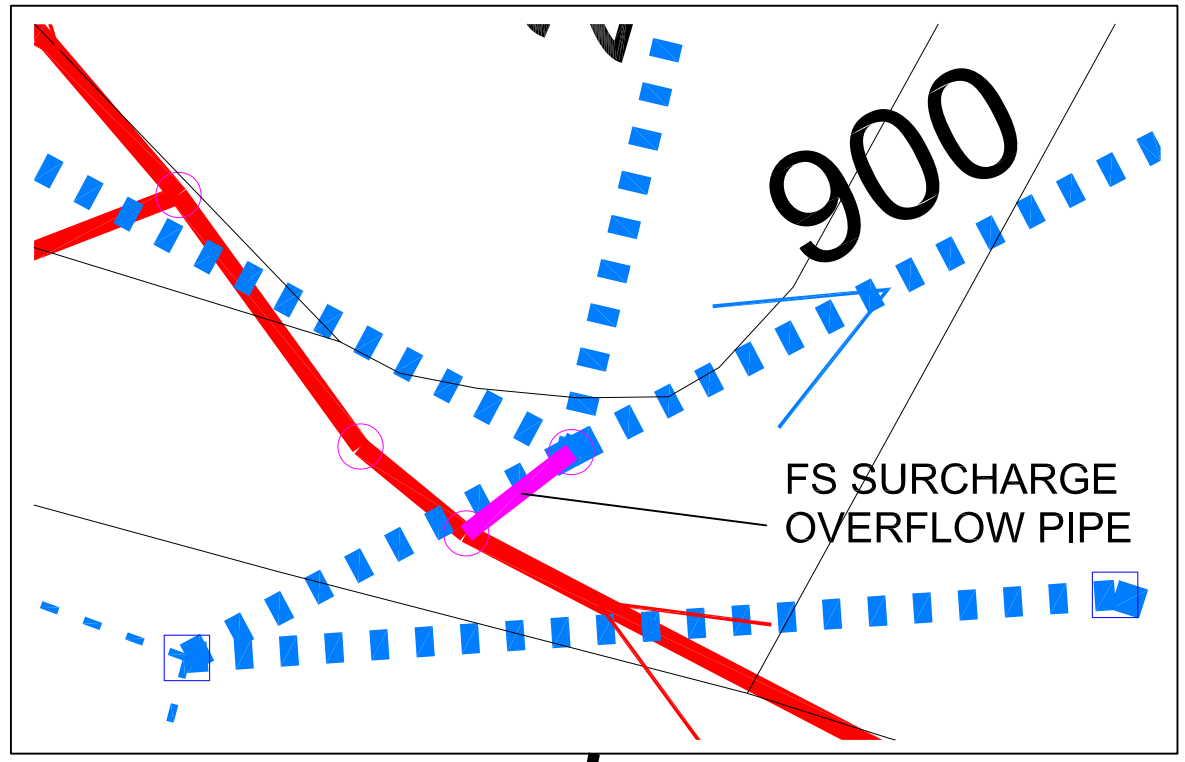
PHILOMENA POOLE
DIRECTOR OF SERVICES

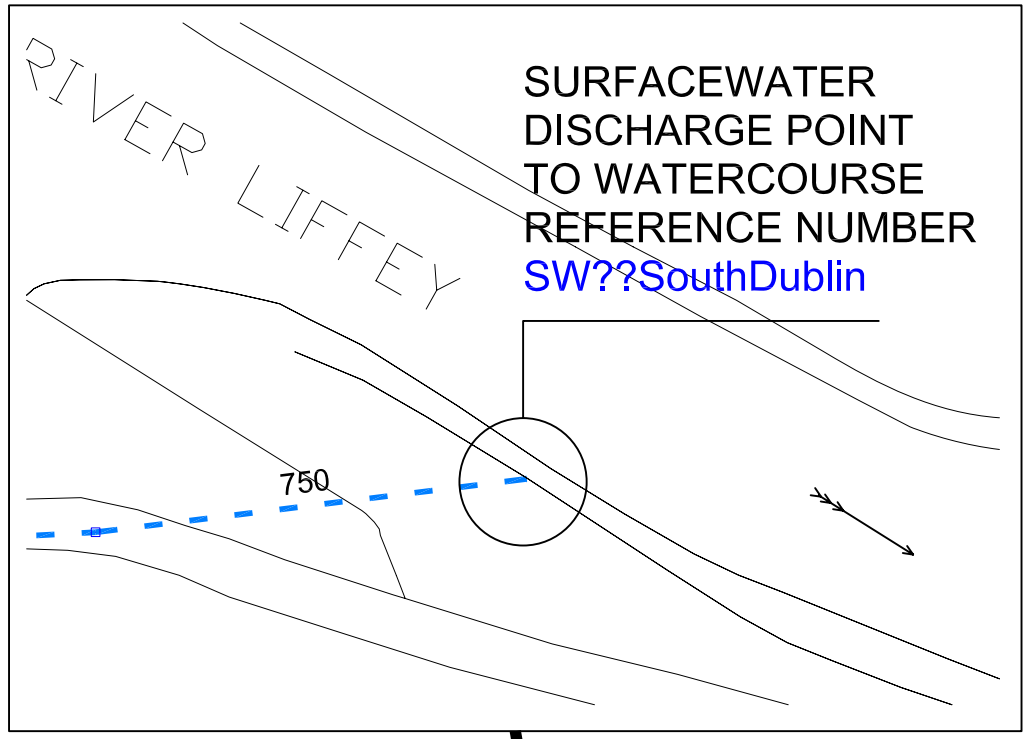
DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

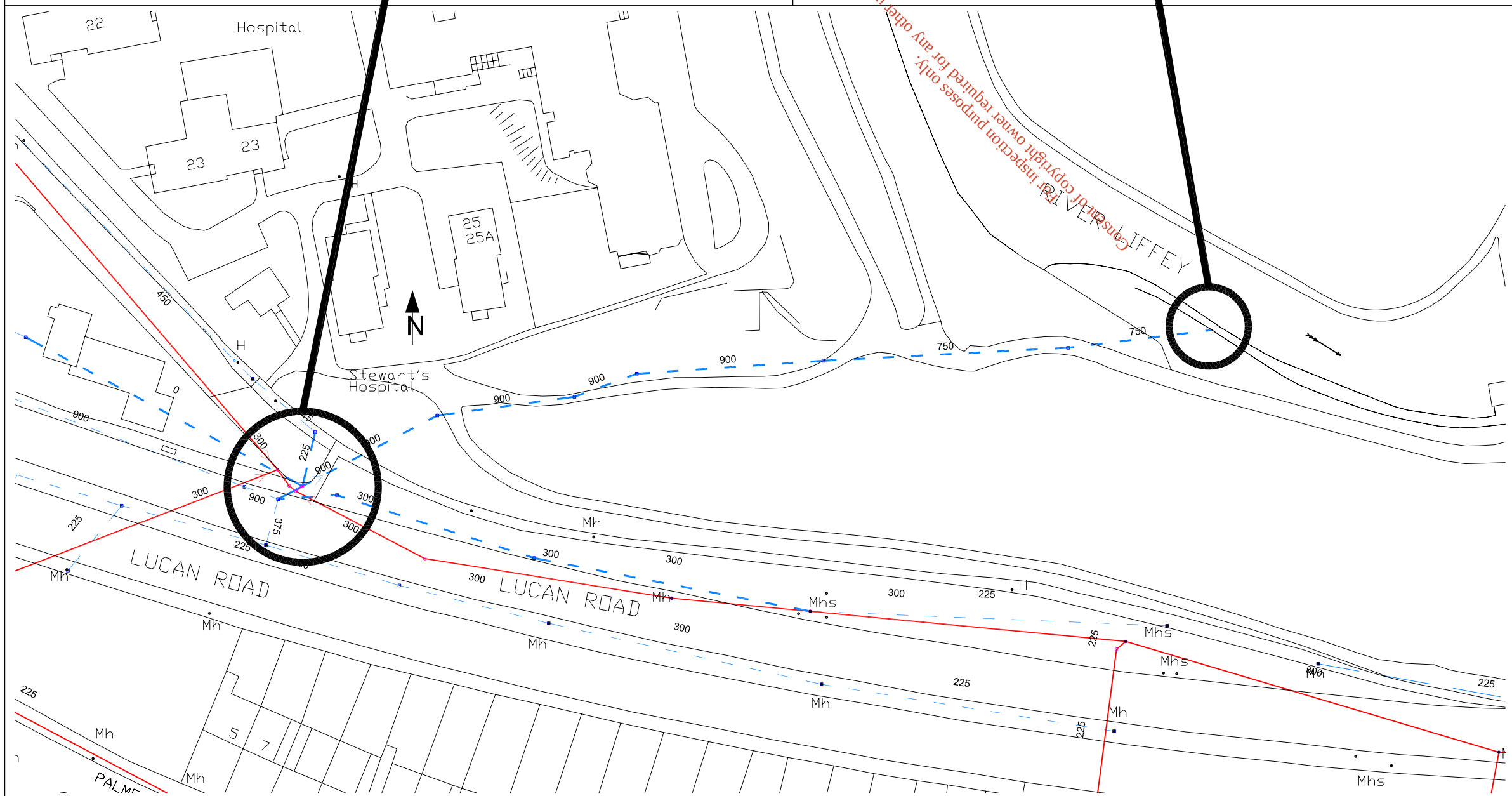
PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE
OVERFLOW PIPE
OLDCOURT MANOR TALLAGHT

Drg No.	O.S.	Drawn
SDCC SWO 13	3390-18-19-23-24	ND
Scale	**Date**	**Checked**
1: 5000(A3)	April 2008	SD







LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- FS SURCHARGE OVERFLOW PIPE
- SW14SouthDublin — SURFACEWATER DISCHARGE POINT TO WATERCOURSE REFERENCE No.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
FOUL SEWER SURCHARGE
OVERFLOW PIPE
STEWARTS HOSPITAL PALMERSTON

Drg No.	O.S.	Drawn
SDCC SWO 14	3262-01 & 02	ND
Scale	Date	Checked
1: 1000(A3)	April 2008	SD

SPA PUMPING STATION

RIVER LIFFEY

N

LEIXLIP ROAD

CELBRIDGE ROAD

N4

Tobermaclugg Stream

PUMPING STATION
EMERGENCY OVERFLOW PIPES

DISCHARGE POINTS TO STREAM
REFERENCE NUMBERS
SW16SouthDublin & SW16aSouthDublin

300 Ø GRAVITY SEWER

225 Ø GRAVITY SEWER

RISING MAINS

Mh

Mhs

225

300

150

450

375

LEGEND :

	SURFACE WATER SEWER
	FOUL SEWER
	PUMPING MAIN
	PS EMERGENCY OVERFLOW PIPES
SW16SouthDublin SW16aSouthDublin	DISCHARGE POINT TO WATERCOURSE REFERENCE NOs.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
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WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
SPA PUMPING STATION LUCAN

Drg No.	O.S.	Drawn
SDCC PS 01	3194-24	ND
Scale	Date	Checked
1:500 (A3)	April 2008	SD

Church
(Meth)

N

TKs

Mh

Mhs

375

375 Ø GRAVITY SEWERS

225

225 Ø SW PIPE

225 Ø PS EMERGENCY

OVERFLOW PIPE

ADAMSTOWN ROAD

225 Ø DISUSED SEWER

1-2

3

5-6

8

9

12

Car Park
The Village Centre

The Village
Court

PUMPING STATION
EMERGENCY
OVERFLOW PIPE

LUCAN LOW LEVEL
(VILLAGE)
PUMPING STN

DISCHARGE POINT
TO RIVER
Reference No.
SW17SouthDublin

Griffeen River

Tank

FB

225 Ø GRAVITY SEWERS

Twin Rising Mains

H

LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN
- PUMPING STN EMERGENCY OVERFLOW PIPE
- SW17SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE NO.

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ENVIRONMENTAL SERVICES DEPARTMENT

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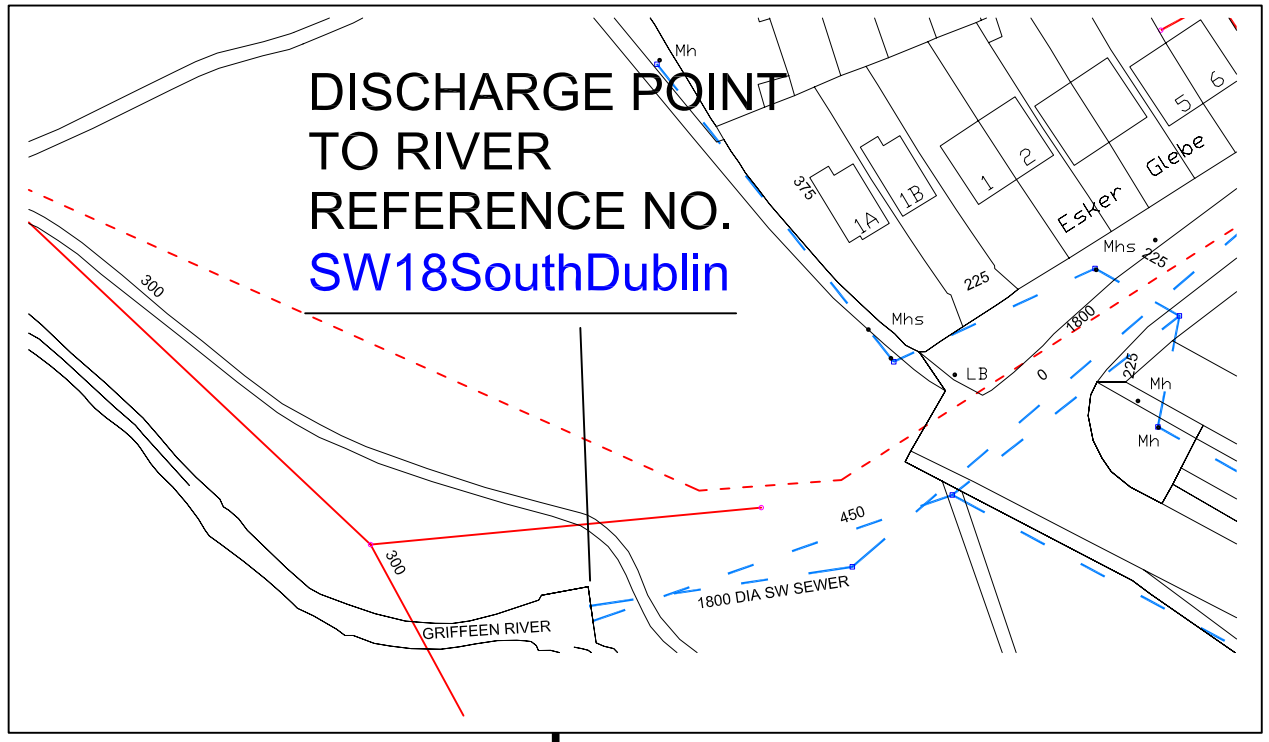
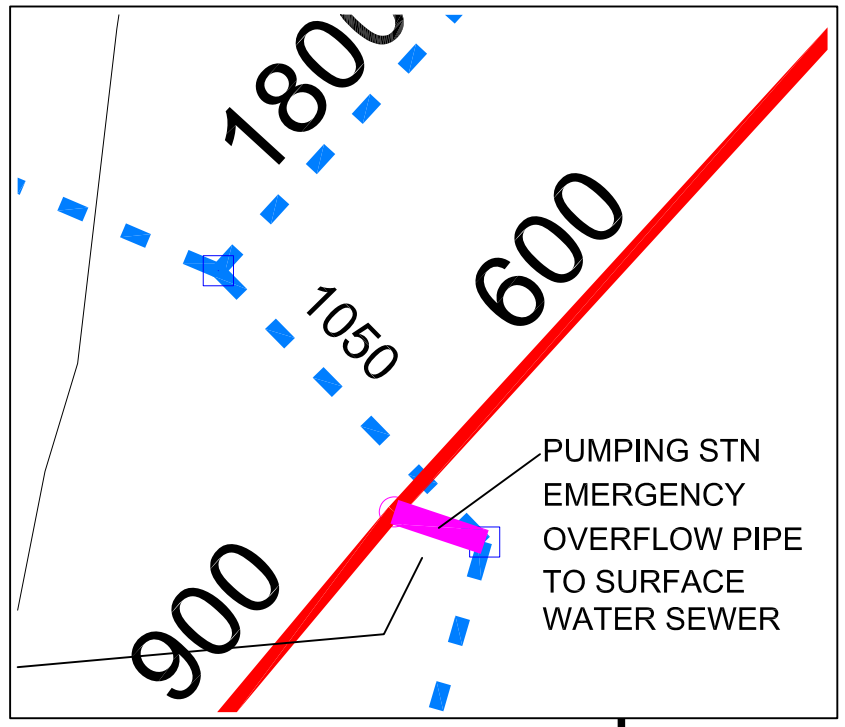
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
LUCAN LOW LEVEL (VILLAGE)
PUMPING STATION

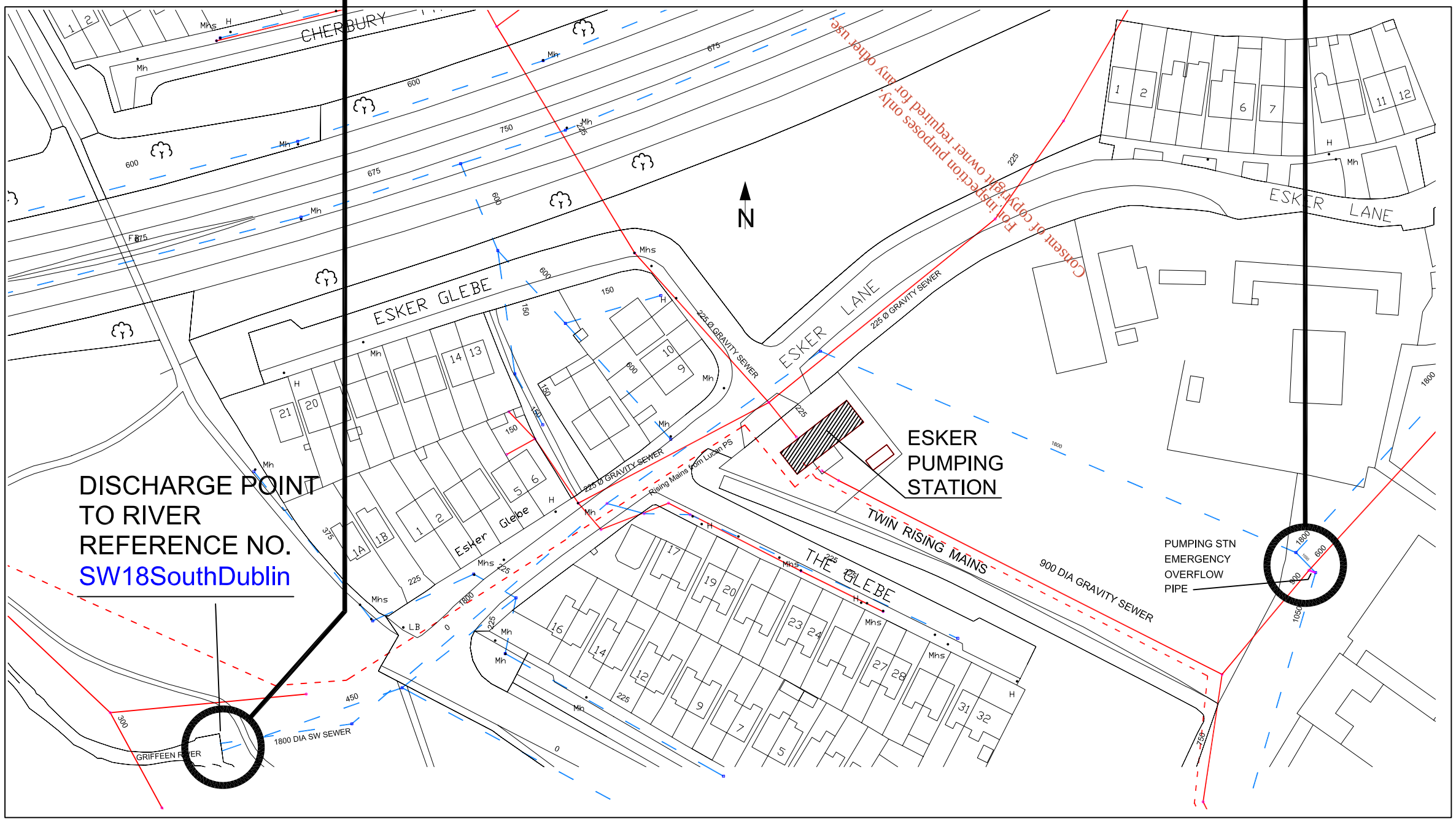
Drg No.	O.S.	Drawn
SDCC PS 02	3194-23	ND
Scale 1:500 (A3)	Date April 2008	Checked SD





LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN
- PUMPING STN EMERGENCY OVERFLOW PIPE
- SW18SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE NO.



COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
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ENVIRONMENTAL SERVICES DEPARTMENT

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SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
ESKER PUMPING STATION LUCAN

Drg No.	O.S.	Drawn
SDCC PS 03	3261-01	ND
Scale	**Date**	**Checked**
1:1000 (A3)	April 2008	SD

onthill
ouse

N

Lake

DISCHARGE POINT
TO WATERCOURSE
REFERENCE NUMBER
SW19SouthDublin

1200

1200 DIA SURFACE WATER SEWER

Well

Well

Quarryvale

Sports
Ground

N

PUMP STN
EMERGENCY
OVERFLOW
TO EXISTING
SURFACEWATER
SEWER

QUARRYVALE
PUMPING STATION

TWIN 350 dia
RISING MAINS

225 Gravity Sewer

N4

CR

LEGEND :

SURFACE WATER SEWER

FOUL SEWER

PUMPING MAIN

PS EMERGENCY OVERFLOW PIPE

SW19SouthDublin — SURFACE WATER DISCHARGE POINT TO WATERCOURSE REFERENCE No.

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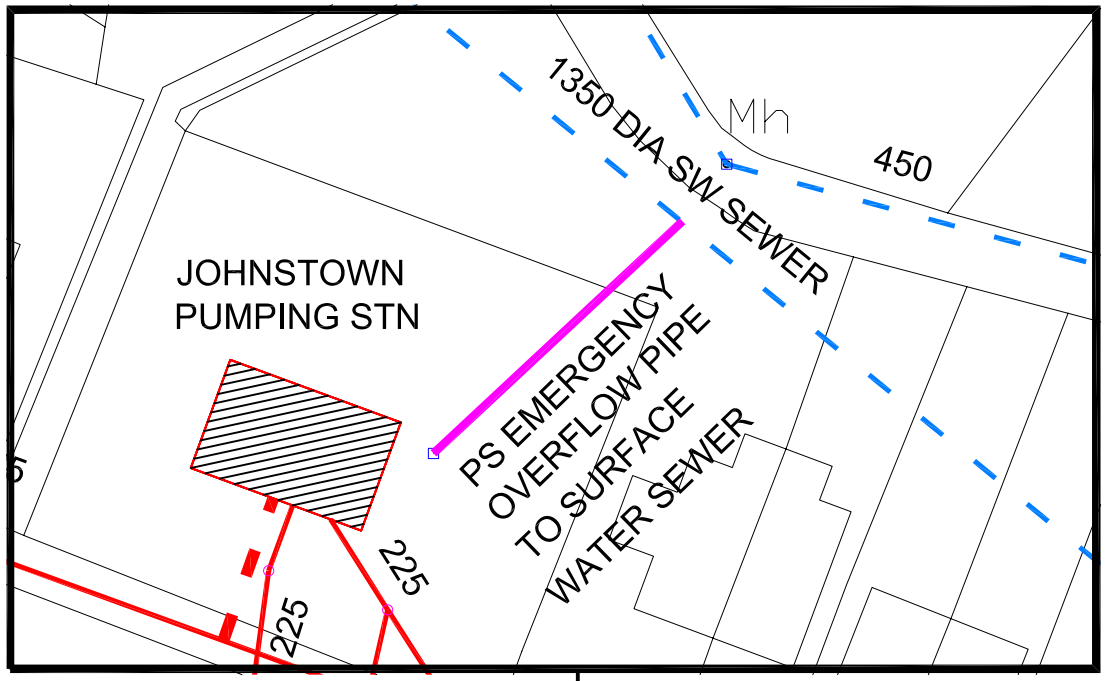
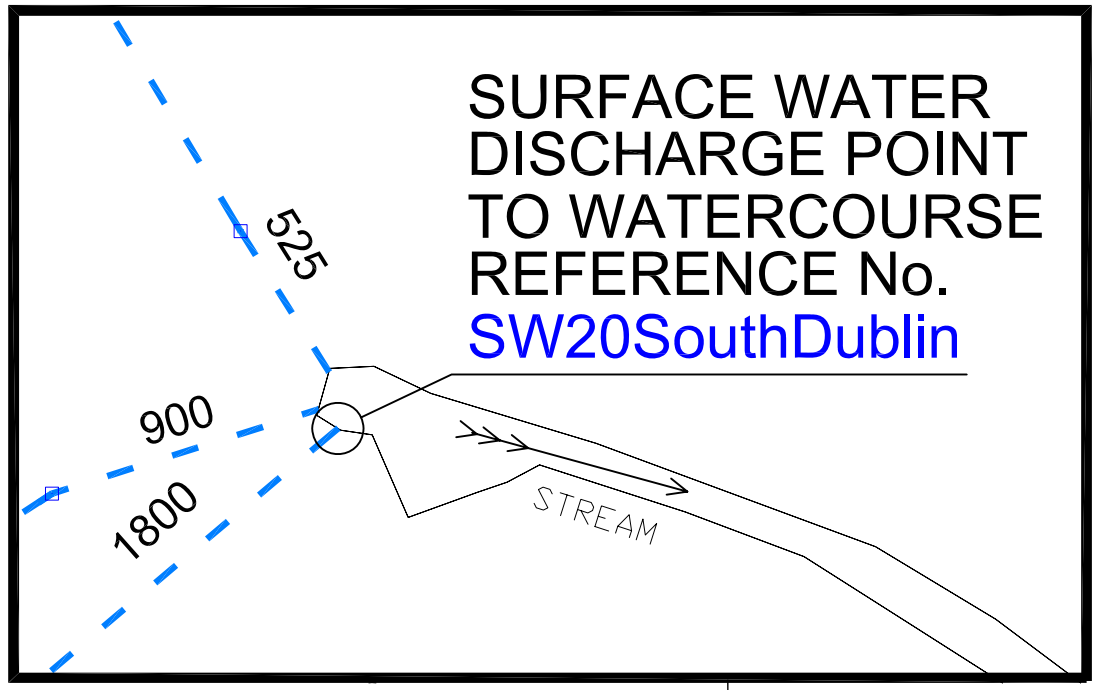
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

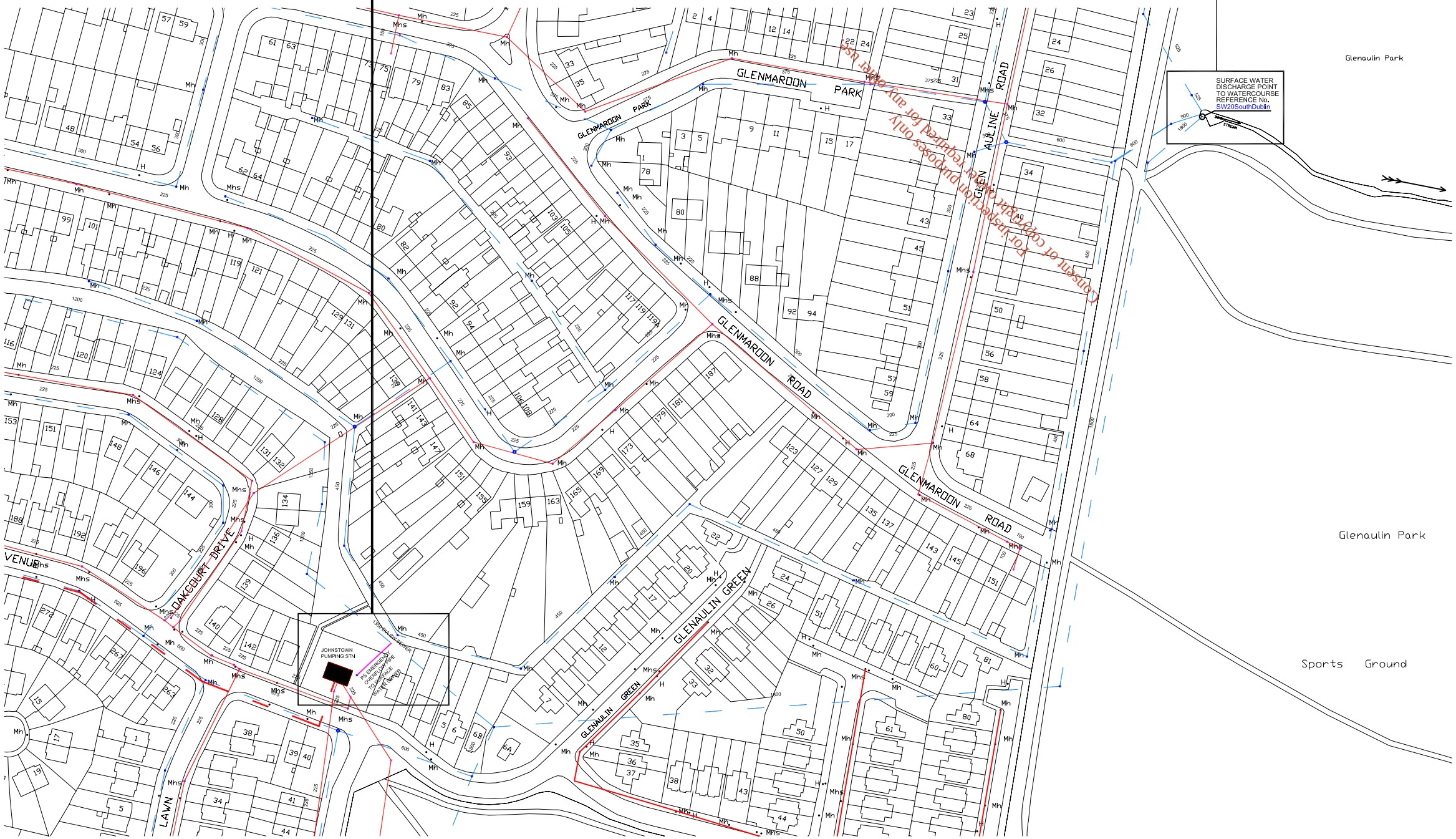
PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
QUARRYVALE PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 04	3195-D	ND
Scale	Date	Checked
1: 2000(A3)	April 2008	SD







LEGEND :

- SURFACE WATER SEWER
- PUMPING MAIN
- FOUL SEWER
- PS EMERGENCY OVERFLOW PIPE
- SW20SouthDublin — SURFACE WATER DISCHARGE POINT TO WATERCOURSE REFERENCE No.

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PHILOMENA POOLE
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DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

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PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
JOHNSTOWN PUMPING STATION
PALMERSTON

Drg No.	O.S.	Drawn
SDCC PS 05	3262-01-02-06-07	ND
Scale 1: 2000 (A3)	Date April 2008	Checked SD

N

Grand Canal

Tramway

SURFACE WATER
DISCHARGE POINT
TO WATERCOURSE
REFERENCE NO.
SW21SouthDublin

PUMPING STATION
EMERGENCY
OVERFLOW PIPES
TO SW SEWER

GRANGE CASTLE
PUMPING STATION

900 Ø SW
225 Ø SW
525 GRAVITY SEWER
450 GRAVITY SEWER
TWIN RISING MAINS

150
525
225
900

LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN
- PS EMERGENCY OVERFLOW PIPE
- SW21SouthDublin — SURFACEWATER DISCHARGE POINT TO WATERCOURSE REFERENCE NO.

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WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
GRANGE CASTLE PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 06	3260-D	ND
Scale	Date	Checked
1:1000 (A3)	April 2008	SD

FS OVERFLOW PIPE
DISCHARGE POINT
TO SURFACEWATER
SEWER

SURFACEWATER
DISCHARGE POINT
TO WATERCOURSE
REFERENCE NO.
SW22aSouthDublin

DISCHARGE POINT
OF EMERGENCY
OVERFLOW PIPE
TO WATERCOURSE
REFERENCE NO.
SW22SouthDublin

BALLYMANAGGIN
PUMPING STATION

RISING MAINS

150 DIA FS OVERFLOW TO STREAM

225 Ø GRAVITY SEWER

STATION ROAD

STATION GROVE

STATION CLOSE

CRAG AVENUE

BALLYMANAGGIN LANE

STREAM

GRAND CANAL

Business Park

LOCK

LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN
- PS EMERGENCY OVERFLOW PIPE
- SW22SouthDublin — FS DISCHARGE PT TO WATERCOURSE REFERENCE NO.
- SW22aSouthDublin — SW DISCHARGE PT TO WATERCOURSE REFERENCE NO.

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SOUTH DUBLIN COUNTY COUNCIL
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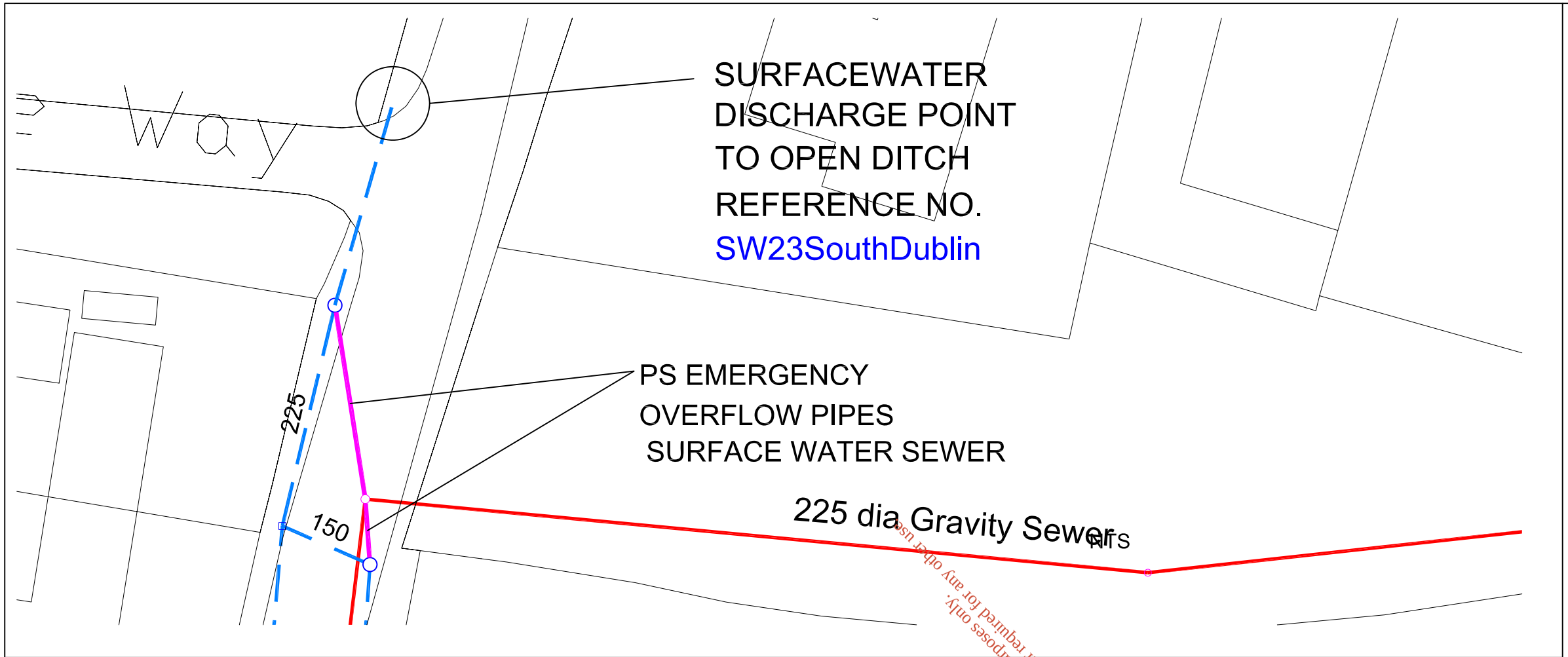
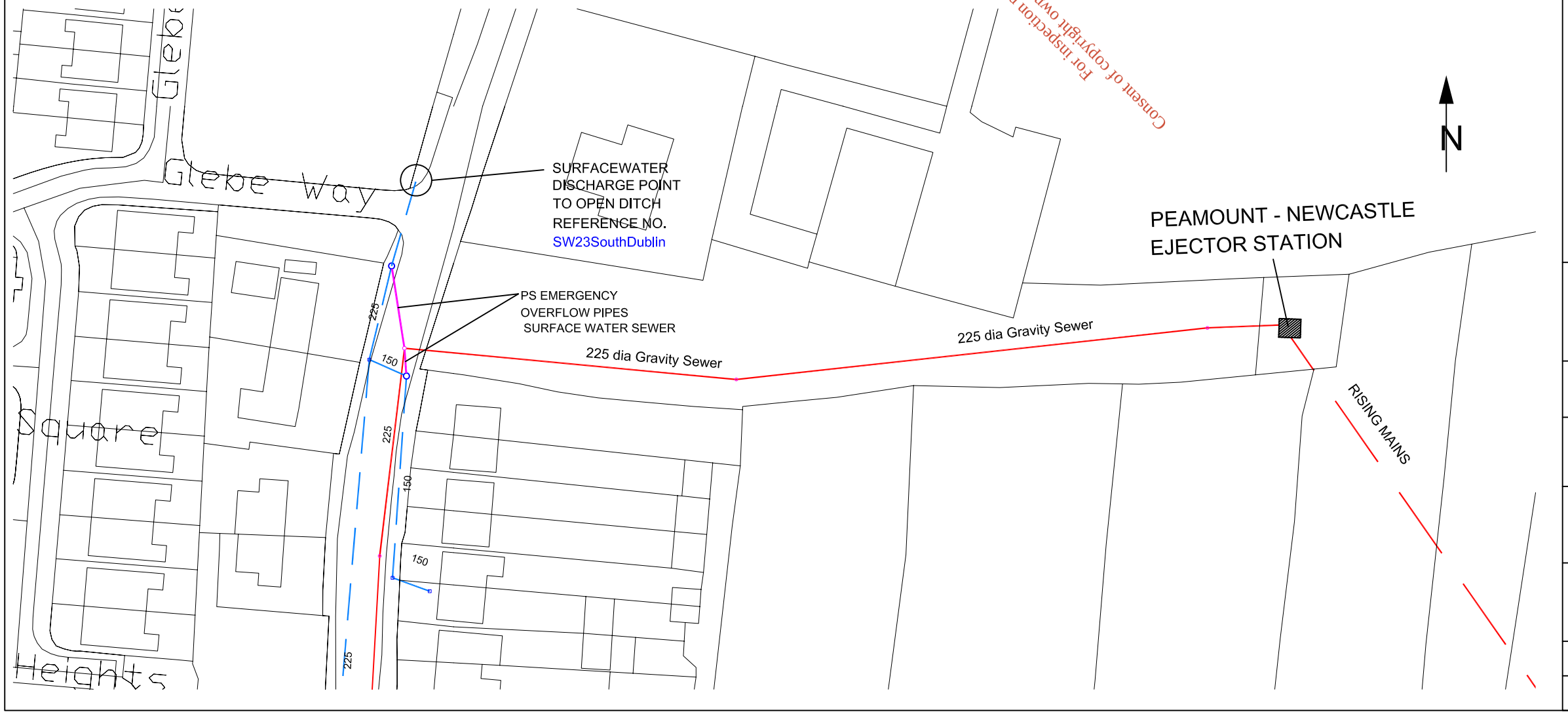
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
BALLYMANAGGIN PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 07	3261-24	ND
Scale	Date	Checked
1: 1000(A3)	April 2008	SD





LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN
- PS EMERGENCY OVERFLOW PIPES TO SURFACEWATER SEWER
- SW23SouthDublin — SURFACEWATER DISCHARGE POINT TO OPEN DITCH REFERENCE NO.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

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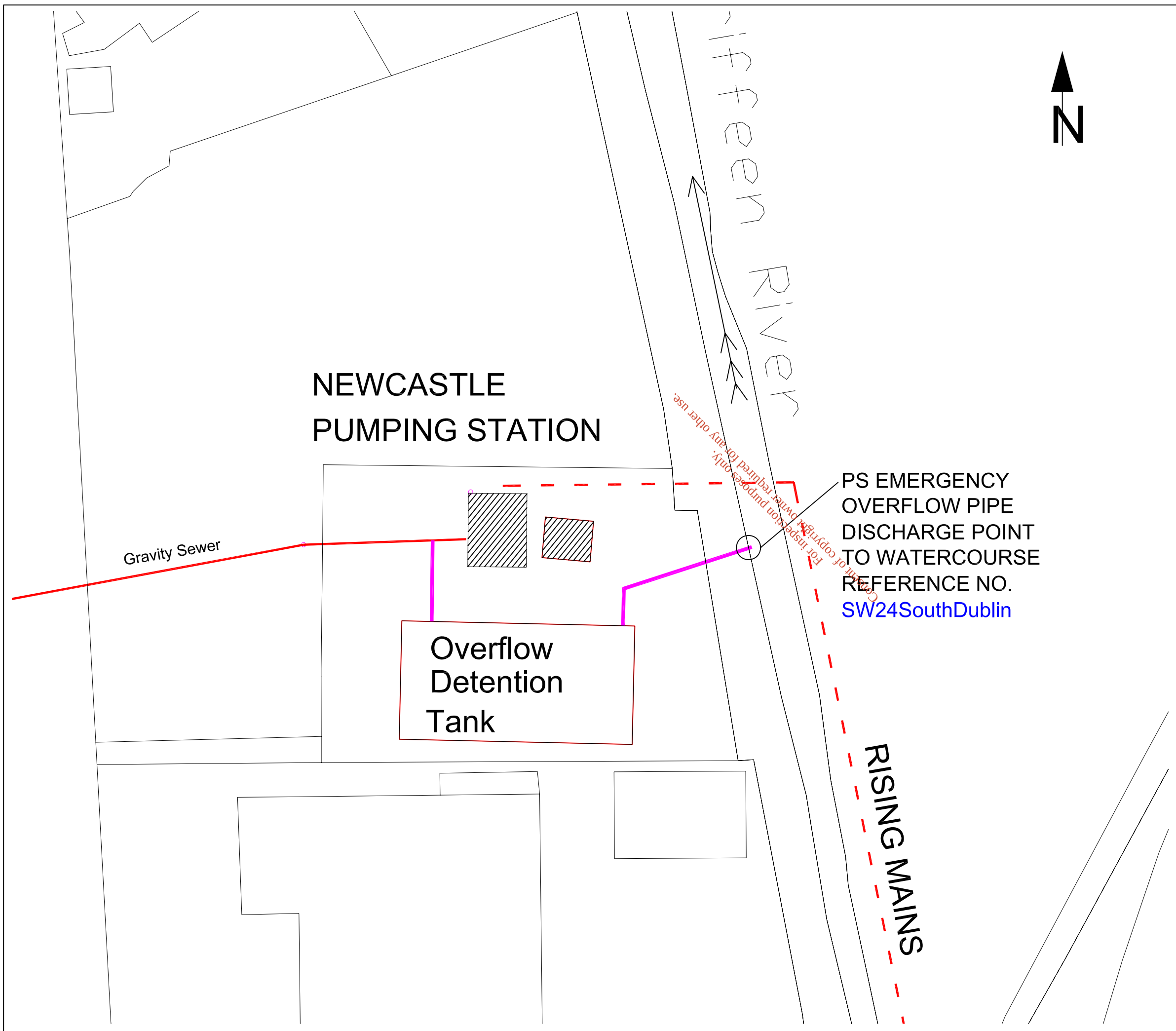
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATION 2007

TITLE
PEAMOUNT - NEWCASTLE
EJECTOR STATION

Drg No.	O.S.	Drawn
SDCC PS 08	3388-A	ND
Scale 1:1000 (A3)	Date April 2008	Checked SD



LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN
- PS EMERGENCY OVERFLOW PIPE
- SW24SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE NO.

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SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
NEWCASTLE PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 09	3388-A	ND
Scale	Date	Checked
1: 500 (A3)	April 2008	SD

DISCHARGE POINT TO WATERCOURSE REFERENCE NO. SW25SouthDublin

1200 DIA SW CULVERT

STREAM

OPEN

PS EMERGENCY OVERFLOW PIPE

RISING MAINS

TAY LANE PUMPING STATION

1220x1870 BOX CULVERT

NAAS ROAD

NAAS ROAD

Mh

Mhs

450

525

375

225

150

750

N

LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN
- PS EMERGENCY OVERFLOW PIPE
- SW25SouthDublin — DISCHARGE POINT TO WATERCOURSE REFERENCE NO.

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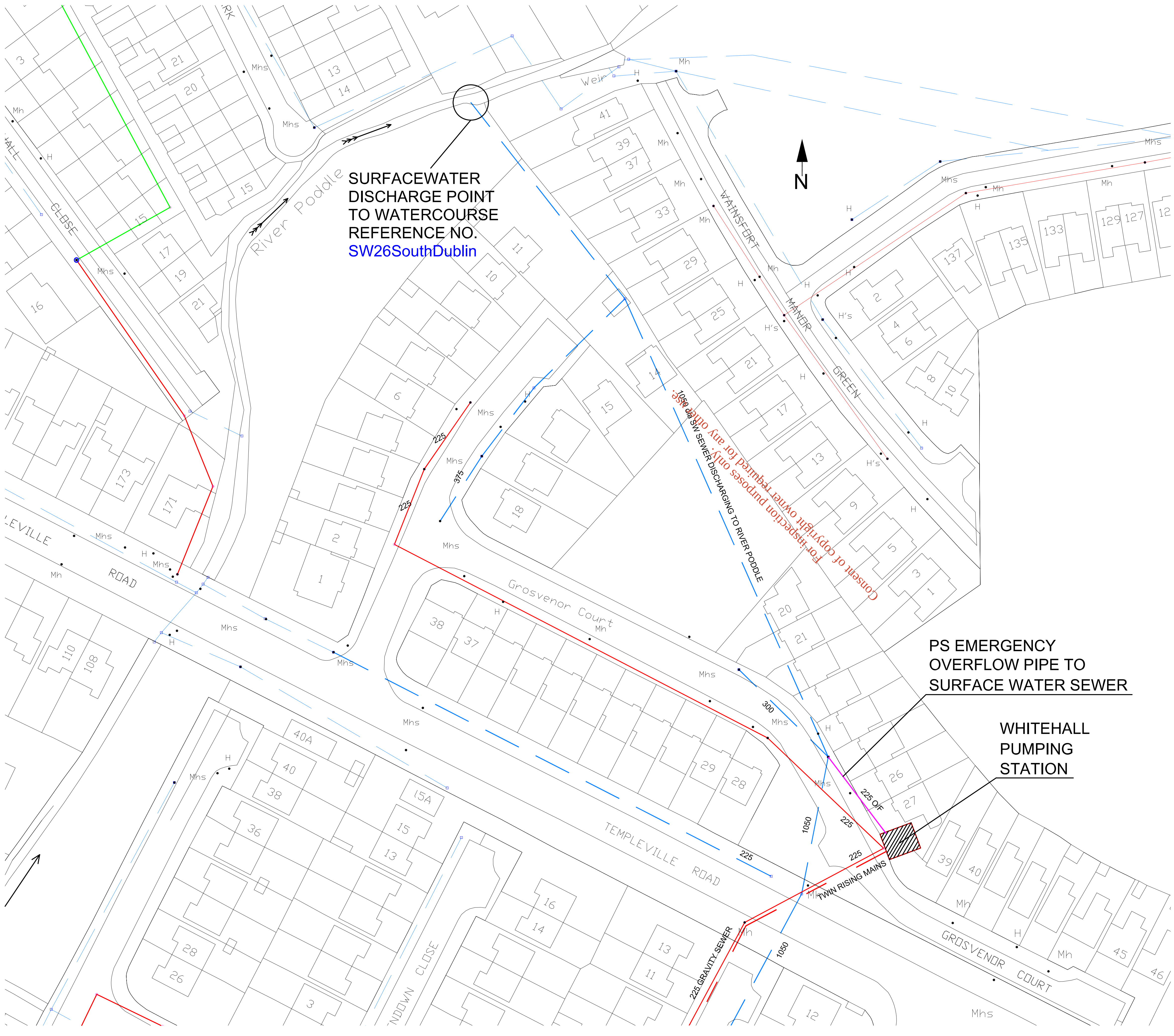
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
TAY LANE - RATHCOOLE PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 10	3388-18	ND
Scale	Date	Checked
1: 500 (A3)	April 2008	SD



LEGEND :

(blue dashed line)	SURFACE WATER SEWER
(red solid line)	FOUL SEWER
(red dashed line)	PUMPING MAIN
(magenta line)	PS EMERGENCY OVERFLOW PIPE
SW26SouthDublin	SURFACEWATER DISCHARGE POINT TO WATERCOURSE REFERENCE NO.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
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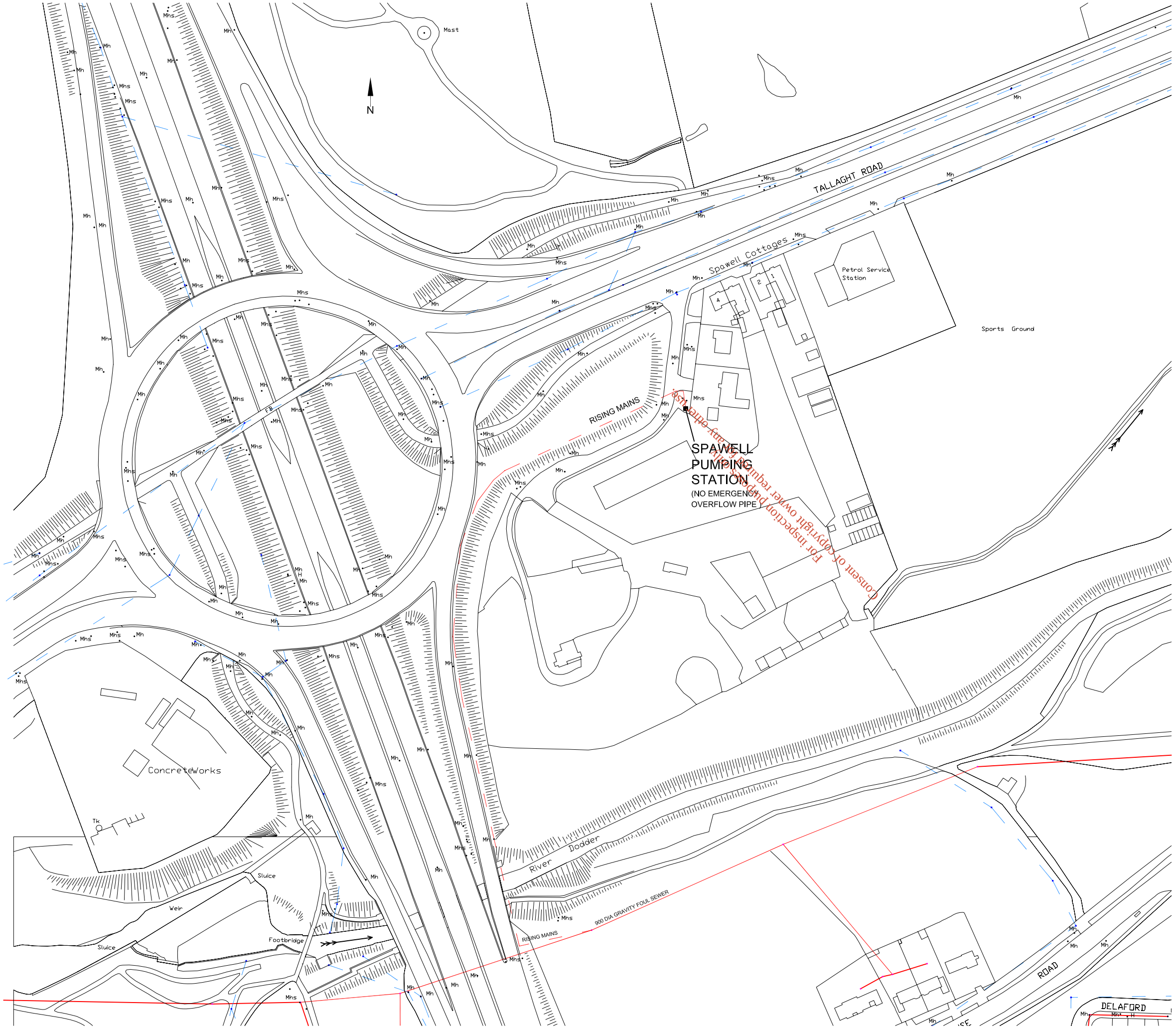
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
WHITEHALL PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 11	3328-21	ND
Scale: 1: 1000(A3)	Date: April 2008	Checked: SD



LEGEND :

SURFACE WATER SEWER

FOUL SEWER

PUMPING MAIN

NOTE: PUMPING STATION CONTAINS NO EMERGENCY OVERFLOW PIPE

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
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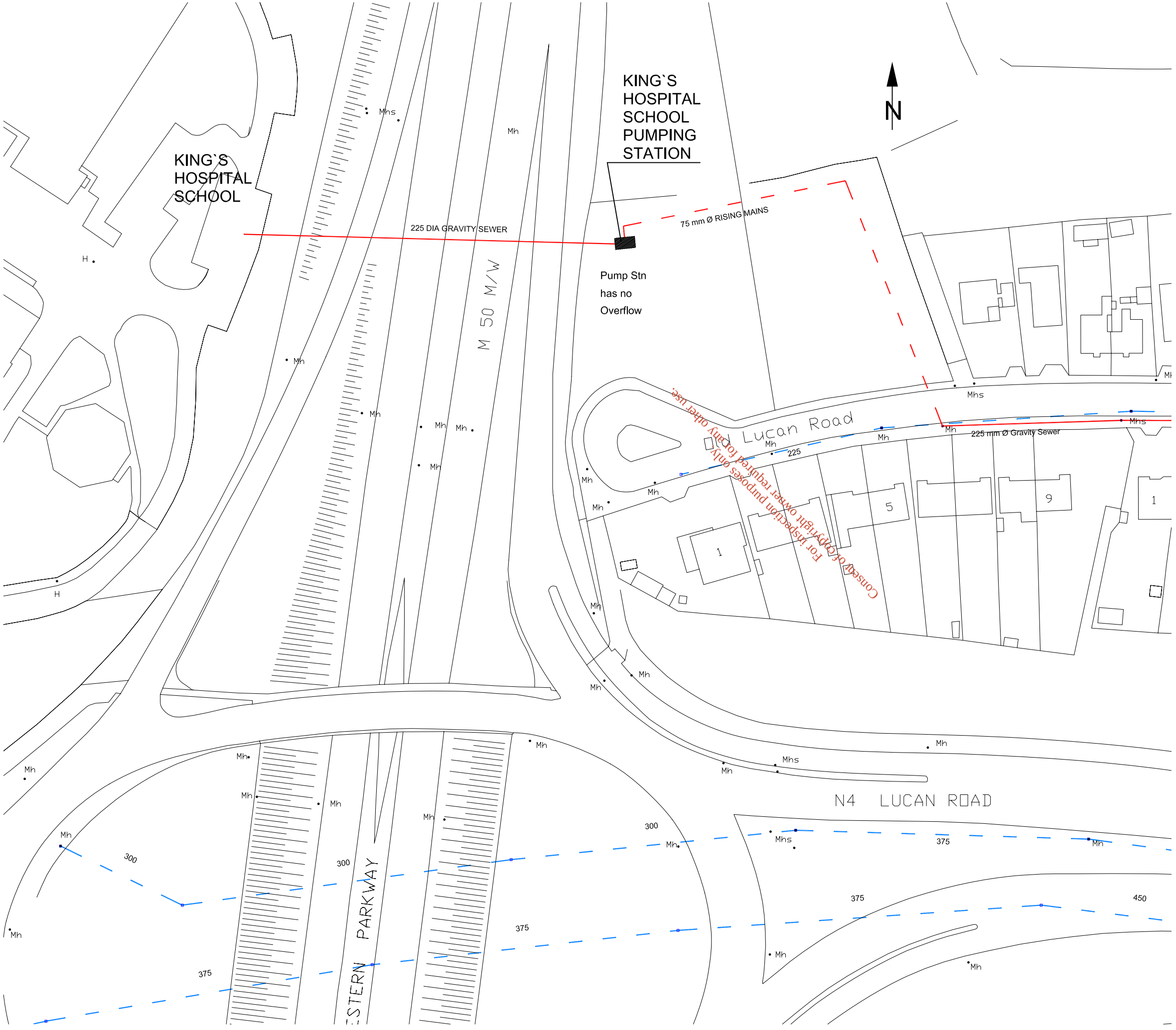
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
SPAWELL PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 12	3390-10	ND
Scale	Date	Checked
1:2000 (A3)	April 2008	SD



LEGEND :

- FOUL SEWER
- PUMPING MAIN
- SURFACE WATER SEWER

NOTE : PUMPING STATION HAS NO FOUL SEWER EMERGENCY OVERFLOW

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ENVIRONMENTAL SERVICES DEPARTMENT

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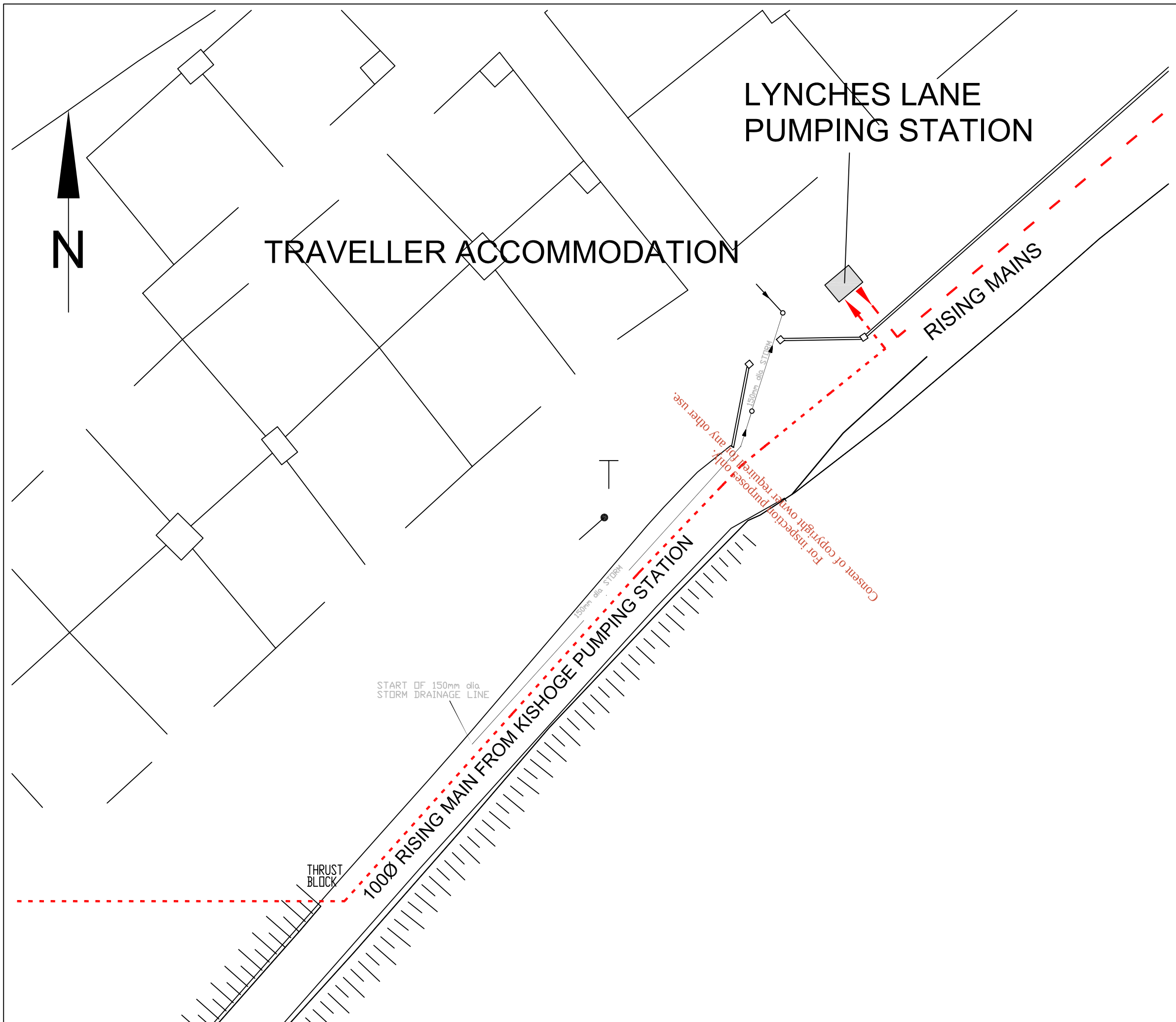
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
KINGS HOSPITAL SCHOOL PUMPING STATION LUCAN

Drg No.	O.S.	Drawn
SDCC PS 13	3195-D	ND
Scale	Date	Checked
1: 500 (A3)	April 2008	SD



LEGEND :

FOUL SEWER

PUMPING MAIN

SURFACE WATER SEWER

NOTE : PUMPING STATION HAS NO FOUL SEWER EMERGENCY OVERFLOW

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SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
LYNCH`S LANE
TRAVELLER ACCOMMODATION
PUMPING STATION, LUCAN

Drg No.	O.S.	Drawn
SDCC PS 14	3261-C	ND
Scale	Date	Checked
1:1000 (A3)	April 2008	SD

N

PLATFORM
Up Fast
Up Slow
PLATFORM
Down Slow
Down Fast

EXISTING RAILWAY OVERBRIDGE (OB14A)

OUTER RING ROAD

AIR VALVE

RISING MAIN TO BE INSTALLED IN EXISTING DUCT IN BRIDGE

STATION

C.S.B. POLE

600Ø CLASS 'C' FIBRE RISING MAIN DIVERSION

THRUST BLOCK

Ex. 1000 RISING MAIN

KISHOGUE
TRAVELLER
ACCOMMODATION

KISHOGE
PUMPING
STATION

80 DIA RISING MAIN

RISING MAIN TO LYNCH'S LANE TRAVELLER ACCOM. PUMPING STATION

LYNCH'S LANE

LEGEND :

FOUL SEWER

PUMPING MAIN

SURFACE WATER SEWER

NOTE : PUMPING STATION HAS NO FOUL SEWER EMERGENCY OVERFLOW

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
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SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
KISHOGE TRAVELLER ACCOMODATION UNITS, PUMPING STATION, LUCAN

Drg No.	O.S.	Drawn
SDCC PS 15	3260-D	ND
Scale	Date	Checked
1:1000 (A3)	April 2008	SD

KNOCKMEENAGH LANE

St Brigid's Cottages

11A

ST BRIGIDS COTTAGES
PUMPING STATION

TWIN RISING MAINS

150 GRAVITY SEWER

NAAS ROAD

N

LEGEND :

- FOUL SEWER
- OVERFLOW PIPE
- PUMPING MAIN
- SURFACE WATER SEWER

NOTE : PUMPING STATION HAS NO FOUL SEWER EMERGENCY OVERFLOW SYSTEM.

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
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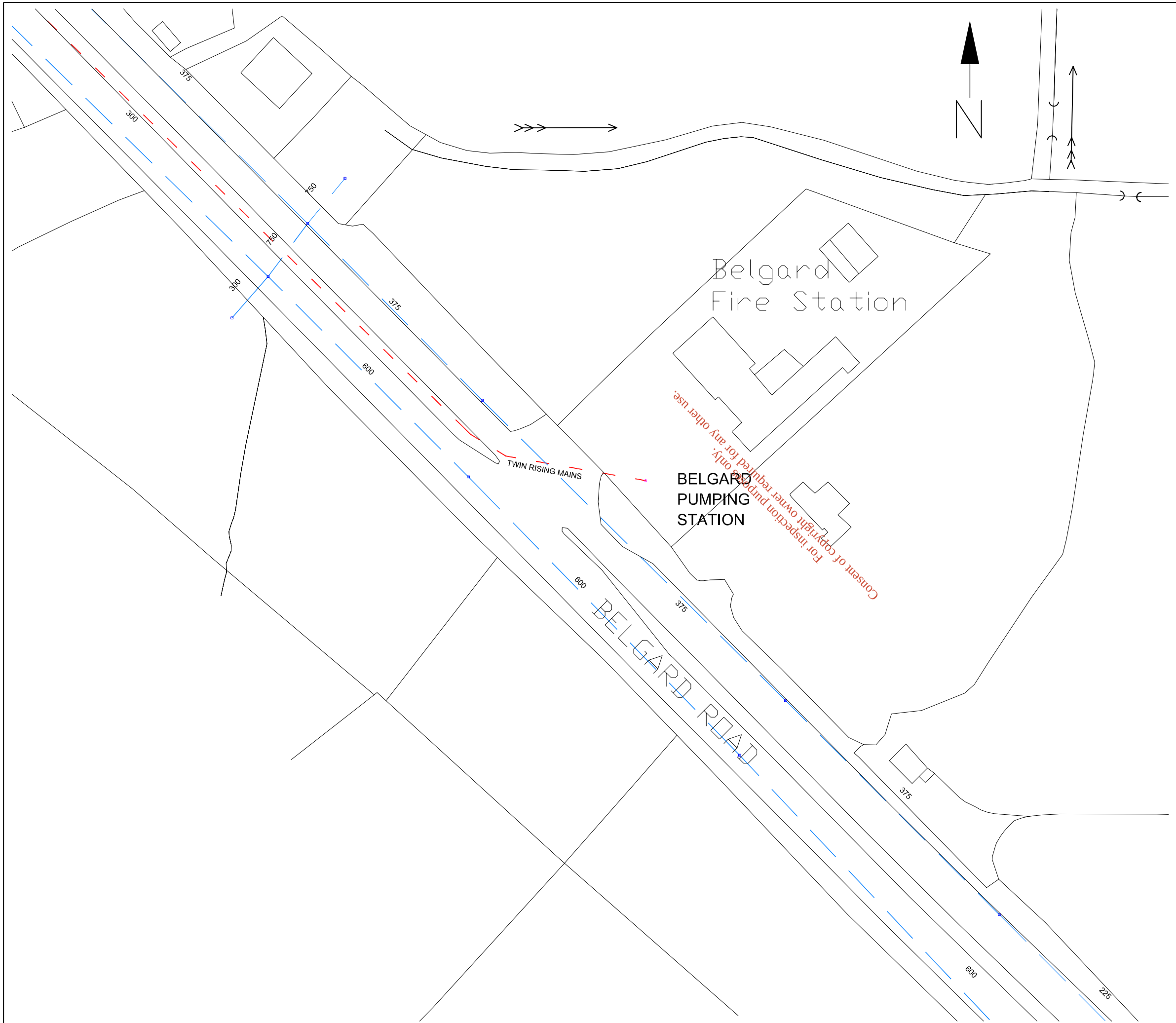
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
ST BRIGID`S COTTAGES
PUMPING STATION CLONDALKIN

Drg No.	O.S.	Drawn
SDCC PS 16	3327-11	ND
Scale	Date	Checked
1: 1000 (A3)	April 2008	SD



LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN

NOTE : PUMPING STATION HAS NO EMERGENCY OVERFLOW DISCHARGE SYSTEM

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

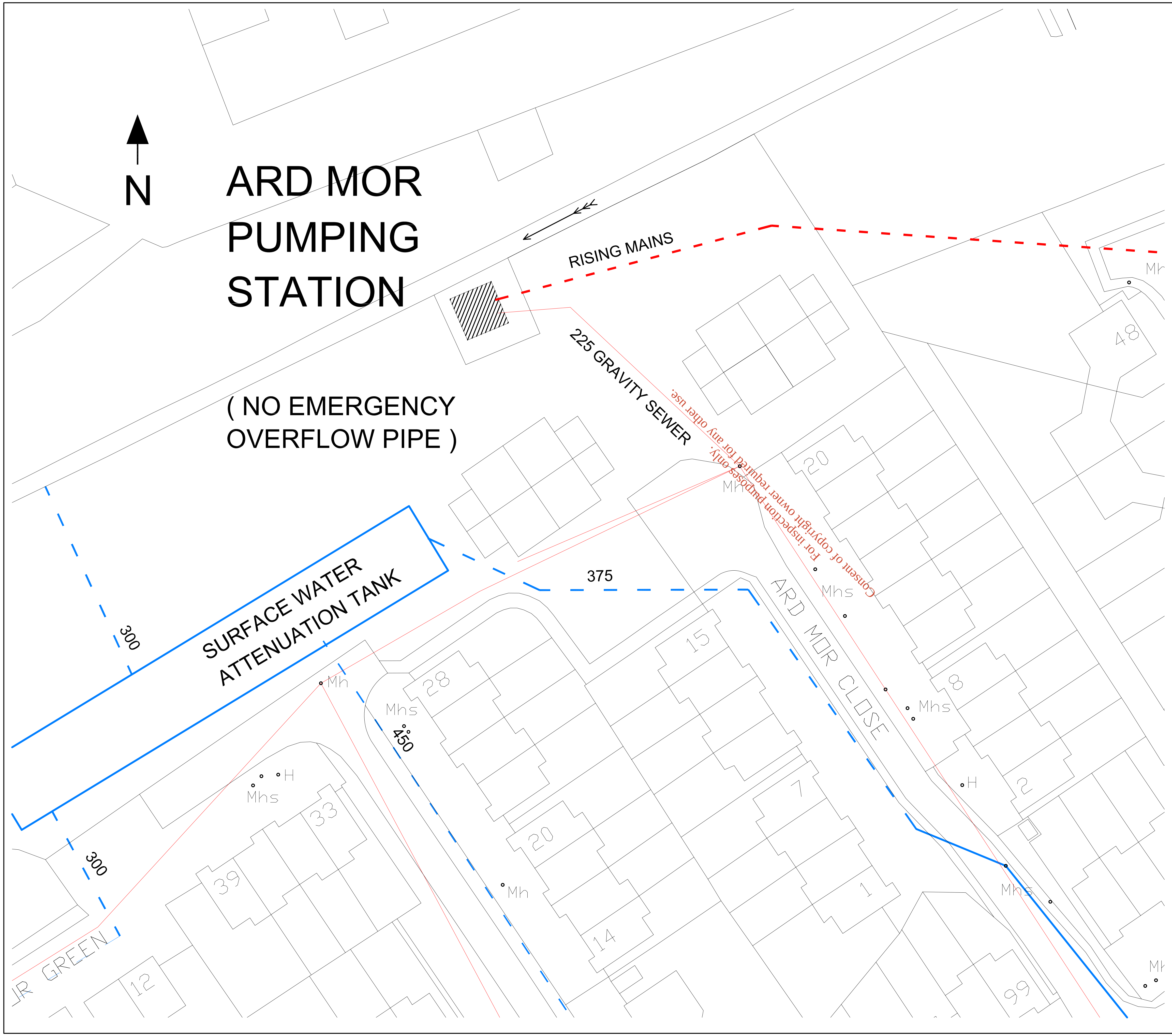
PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
BELGARD (FIRE STATION)
PUMPING STATION, CLONDALKIN

Drg No.	O.S.	Drawn
SDCC PS 17	3326-D	ND
Scale	Date	Checked
1: 1000 (A3)	April 2008	SD



LEGEND :

Blue dashed line	SURFACE WATER SEWER
Red solid line	FOUL SEWER
Red dashed line	PUMPING MAIN

NOTE : PUMPING STATION CONTAINS NO EMERGENCY OVERFLOW PIPE

COMHAIRLE CHONTAE ÁTHA CLIATH THEAS
SOUTH DUBLIN COUNTY COUNCIL
ENVIRONMENTAL SERVICES DEPARTMENT

PHILOMENA POOLE
DIRECTOR OF SERVICES

DERMOT FINCH B.A., B.A.I.,
SENIOR ENGINEER
WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
ARD MOR FORTUNESTOWN PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 18	3389-13	ND
Scale: 1: 500 (A3)	Date: April 2008	Checked: SD

MANOR AVENUE

COLLEGE DRIVE

FORTFIELD

FORTFIELD GROVE

FORTFIELD CRESCENT 1-60

COLLEGE PARK

PARK

Church

SW BOX CULVERT

PUMPING STN
EMERGENCY
OVERFLOW PIPE
TO EX. FOUL SEWER

PUMPING STATION

N

Mhs

Mh

H

LEGEND :

- SURFACE WATER SEWER
- FOUL SEWER
- PUMPING MAIN

NOTE : PUMPING STATION EMERGENCY OVERFLOW PIPE TO EXISTING FOUL SEWER.

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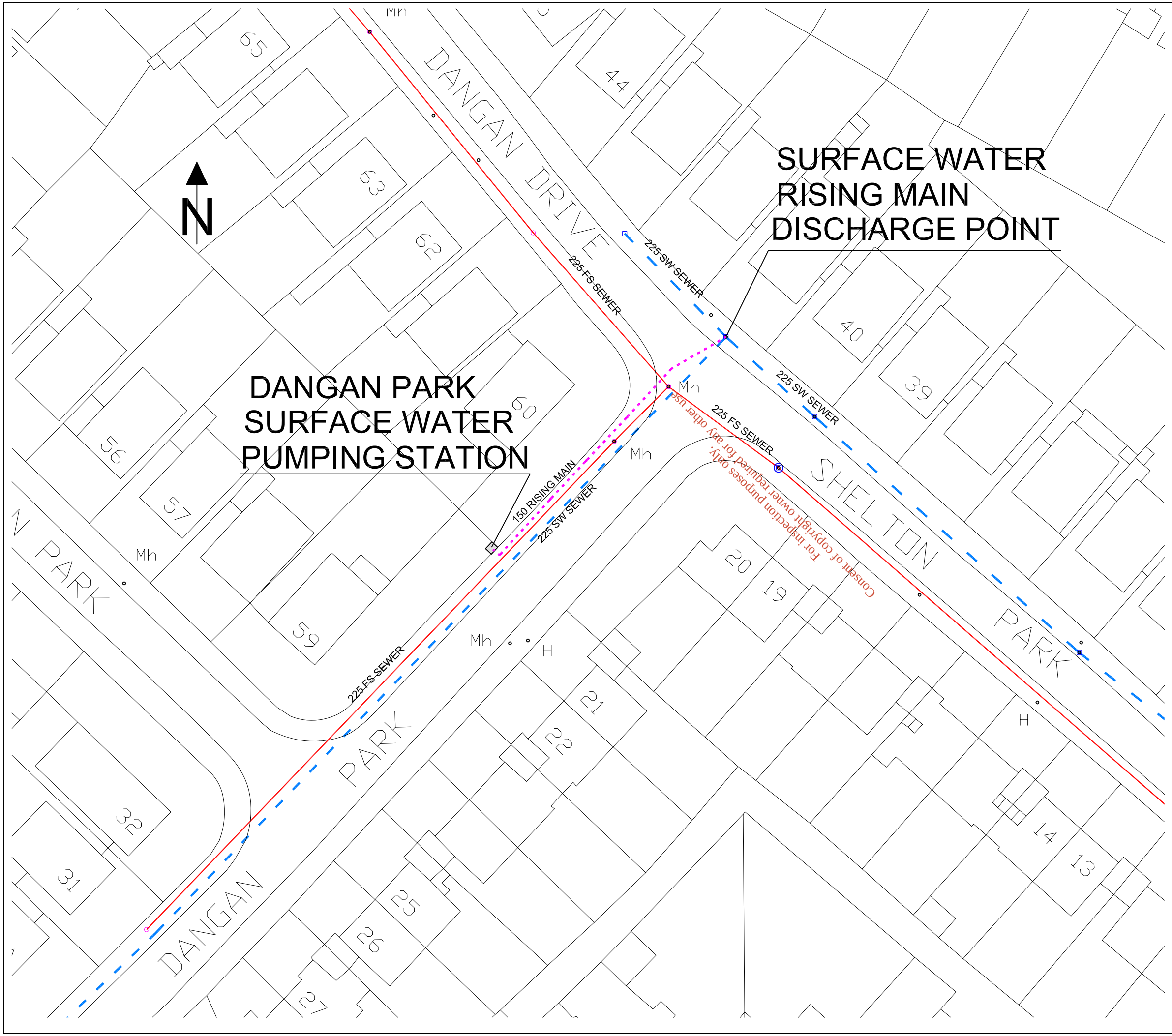
PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
COLLEGE DRIVE PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 19	3328-17-22	ND
Scale	Date	Checked
1: 1000 (A3)	April 2008	SD



LEGEND :

- FOUL SEWER
- SURFACE WATER PUMPING MAIN
- SURFACE WATER GRAVITY SEWER

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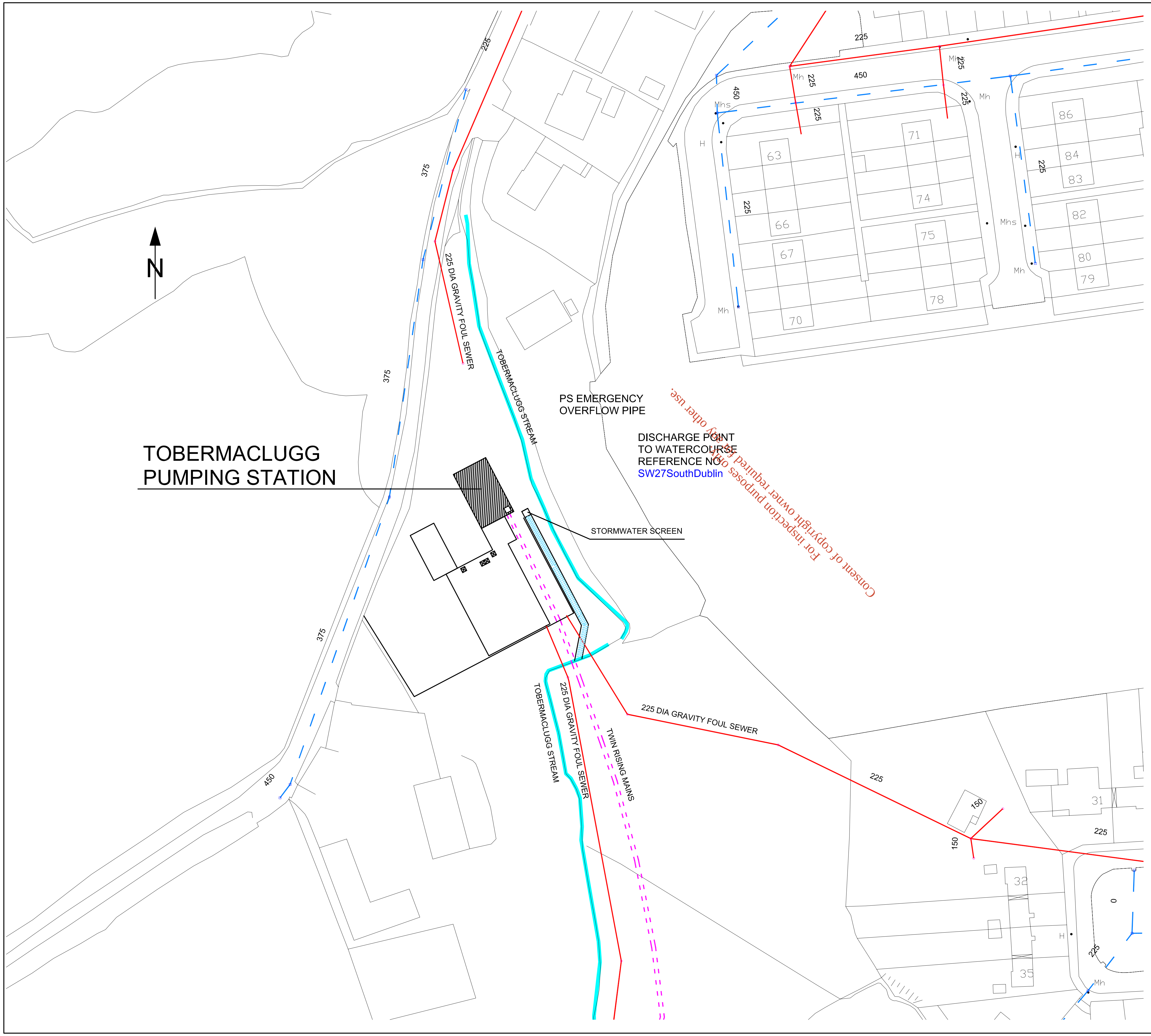
PROJECT
WASTE WATER DISCHARGE
(AUTHORISATION) REGULATIONS 2007

TITLE
DANGAN PARK
SURFACE WATER
PUMPING STATION

Drg No.	O.S.	Drawn
SDCC PS 20	3328-11	ND
Scale 1:500 (A3)	Date April 2008	Checked SD



LEGEND :

(blue dashed line)	SURFACE WATER SEWER
(red line)	FOUL SEWER
(red dashed line)	PUMPING MAIN
(magenta line)	PS EMERGENCY OVERFLOW PIPE
SW27SouthDublin	DISCHARGE POINT TO WATERCOURSE REFERENCE NO.

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WATER & DRAINAGE MAINTENANCE SECTION

PROJECT
WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007

TITLE
TOBERMACLUGG PUMPING STATION

Drg No. SDCC PS 21	O.S. 3260-08	Drawn ND
Scale 1:1000 (A3)	Date April 2008	Checked SD

SECTION C: INFRASTRUCTURE & OPERATION

Advice on completing this section is provided in the accompanying Guidance Note.

C.1 Operational Information Requirements

Provide a description of the plant, process and design capacity for the areas of the waste water works where discharges occur, to include a copy of such plans, drawings or maps, (site plans and location maps, process flow diagrams), and such other particulars, reports and supporting documentation as are necessary to describe all aspects of the area of the waste water works discharging to the aquatic environment. Maps and drawings must be no larger than A3 size.

Attachment C.1 should contain supporting documentation with regard to the plant and process capacity, systems, storm water overflows, emergency overflows, etc., including flow diagrams of each with any relevant additional information. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, D.2, E.3 and F.2.

Attachment included MAPDRAIN SCHEMATICS	Yes	No

C.2 Outfall Design and Construction

Provide details on the primary discharge point & secondary discharge points and storm overflows to include reference, location, design criteria and construction detail.

Attachment C.2 should contain any supporting documentation on the design and construction of any and all discharge outfalls, including stormwater overflows, from the waste water works.

Attachment included	Yes	No

Section C – South Dublin County Council

Provide details of the following:

- *Number of duty and standby pumps at each pumping station*
- *The measures taken in the event of power failure*
- *Details of storage capacity at each pump station*
- *Design criteria and construction for each storm water overflow, where applicable*

Response

Table Attached – SDCC Drainage Pump Stations – Mech Details – Section C
Also See Section C file on disk

Pumping Station Details

Pump Stn No.	Code	Location	Pumps	Duty/Standby?	Type of Discharge	Discharge No.	Sump capacity	Power Failure Measures	Planned Improvements and Completion Date.	Reasons for overflow	Description
SDCCPS18	D27	Ard Mor	2	Duty/Standby/Assist	**No Overflow Discharge**	N/A	6.15cu.m	Portable Diesel Bypass Pump/Jetvac	Installation of Chopper Pumps - 2008	N/A	Residential Development
SDCCPS07	D04	Ballmanagin Pumping Station	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW22(a)SouthDublin		Portable Diesel Bypass Pump/Jetvac	Installation of Chopper Pumps - 2008	Emergency / Capacity	Residential Development
SDCCPS17	D06	Belgard Fire Station Pumping Station	2	Duty/Standby/Assist	**No Overflow Discharge**	N/A		Portable Diesel Bypass Pump/Jetvac		N/A	Fire Station
SDCCPS19	College Drive Pumping Station (Currently private)				**No Overflow Discharge**	N/A				N/A	Residential Development
SDCCPS20	D22	Dangan Park Pumping Station	2	Duty/Standby/Assist	SW Pumping Station	N/A		Portable Diesel Bypass Pump/Jetvac		N/A	
SDCCPS03	D07	Esker Pumping Station	6	Duty/Standby/Assist	Emergency Overflow Discharge	SW18SouthDublin	Wet Well - 6.5m*18m*3m = 351cu.m	Standby Generator	Replacement of Pumps 1 & 4, plus possible installation of macerators at inlet (currently being investigated) - 2008/9	Emergency Only	Lucan Area Catchment
SDCCPS06	D26	Grangecastle Pumping Station	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW21SouthDublin	(5m*15m*3m)*2No.= 450 cu.m	Jetvac	Standby Generator when larger pumps required. - TBC.	Emergency Only	Grangecastle Ind Est
SDCCPS05	D11	hnstown (Palmerstown) Pumping Stati	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW20SouthDublin	8m*5.5m*7*= 308cu.m	Portable Diesel Bypass Pump/Jetvac	New Pumps, Standby generator - 2008.	Emergency Only	Palmerstown Catchment
SDCCPS13	D10	Kings Hospital Pumping Station	2	Duty/Standby/Assist	**No Overflow Discharge**	N/A		Portable Diesel Bypass Pump/Jetvac		N/A	School
SDCCPS15	D17	Kishogue Pumping Station	2	Duty/Standby/Assist	**No Overflow Discharge**	N/A		Portable Diesel Bypass Pump/Jetvac		N/A	Halting Site
SDCCPS02	D03	Lucan Low Level Pumping Station	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW17SouthDublin		Standby Generator		Emergency Only	Lucan Area Catchment
SDCCPS01	D09	Lucan Spa Pumping Station	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW16(a)South Dublin	42cu.m	Portable Diesel Bypass Pump/Jetvac	Installation of Chopper Pumps (2008) & Standby generator (2009).	Emergency Only	Lucan Area Catchment
SDCCPS14	D14	Lynch's Lane Pumping Station	2	Duty/Standby/Assist	**No Overflow Discharge**	N/A		Portable Diesel Bypass Pump/Jetvac		N/A	Halting Site
SDCCPS08	D12	Newcastle Ejector Pumping Station	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW23SouthDublin		Portable Diesel Bypass Pump/Jetvac		Emergency and Capacity	Newcastle catchment
SDCCPS09	D20	Newcastle Pumping Station	2	Duty/Standby	Emergency Overflow Discharge	SW24SouthDublin	25m*15m*3m=1125 cu.m	Portable Diesel Bypass Pump/Jetvac		Emergency and Capacity	Newcastle catchment
SDCCSWO01	D16	Perrystown/Kimmage Storm Tank	1	Duty/Standby/Assist	Emergency Overflow Discharge	SW1SouthDublin		Portable Diesel Bypass Pump/Jetvac		Capacity	Foul Sewer Attenuation
SDCCPS04	D05	Quarryvale Pumping Station	4	Duty/Standby/Assist	Emergency Overflow Discharge	SW19SouthDublin	2m*5.5m*9m= 49.5cu.m	Portable Diesel Bypass Pump/Jetvac		Emergency Only	Quarryvale Catchment
SDCCPS10	D08	Rathcoole (Tay Lane) Pumping Station	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW25SouthDublin		Portable Diesel Bypass Pump/Jetvac	Possible installation of macerators at inlet (currently being investigated) - Possible 2009.	Emergency and Capacity	Rathcoole Catchment
SDCCPS12	D13	Spawell Pumping Station	2	Duty/Standby/Assist	**No Overflow Discharge**	N/A		Portable Diesel Bypass Pump/Jetvac		N/A	5 Dwellings
SDCCPS16	D01	St. Brigid's Cottages Pumping Station	2	Duty/Standby/Assist	**No Overflow Discharge**	N/A		Portable Diesel Bypass Pump/Jetvac		N/A	6 Dwellings
SDCCPS21	Tobermaclugg Pumping Station (Under Construction)					SW27SouthDublin				Not operational	Adamstown Catchment
SDCCPS11	D15	Whitehall Pumping Station	2	Duty/Standby/Assist	Emergency Overflow Discharge	SW26SouthDublin		Portable Diesel Bypass Pump/Jetvac		Emergency Only	Whitehall Catchment