



- Legend**
- Development Boundary
 - Proposed adoptable surface water sewer and manhole
 - Proposed adoptable flow control manhole and large diameter stormwater storage sewer
 - Proposed highway drain
 - Proposed adoptable foul water sewer and manhole
 - Proposed foul water rising main to connect to existing public combined sewer
 - Proposed sewer easement
 - Proposed finished floor level
 - Existing combined sewer and MH
 - Designer risk register key items only - review risk register for full list & reference details
 - Proposed Surface Water rising main

- Notes**
- Planning layout provided by Bloor Homes, ref. _MAS - Option 2 - Dated 04.07.22.
 - Topographical survey provided by RJP Surveying Consultants, ref. Land off Hollingworth Road, Drawing number 'BH190/100', Dated Sept 2018
 - The use of any other flow control devices not associated with the hydro international hydro-broke optimum reference provided may constitute a flood risk

- NOTES**
- CONNECTIONS**
- All SVP, RWP and BIG connections are indicative and must be confirmed by architect.
 - All surface water / gully connections on combined systems to be trapped.
- PIPEWORK**
- Where surface and foul water pipe sizes are not indicated the diameter is to be as per the following table.
 - Where surface water pipe gradients are not indicated a 1:100 pipe is to be laid no shallower than 1:100 and a 1:150 pipe is to be laid no shallower than 1:150.
 - Where foul water pipe gradients are not indicated a 1:100 pipe is to be laid no shallower than 1:100, with the exception of the first connection that is to be laid at 1:40, a 1:150 pipe is to be laid no shallower than 1:150.
- INSPECTION CHAMBERS & MANHOLES**
- Manhole covers to be marked 'TW' or 'SW' as appropriate.
 - Backflow to manholes to be English band.
 - All manhole covers and frames must comply with BS EN124. Covers in roads to be grade D400 and be 150mm deep. Manhole covers in car parking areas and drives to be grade S125, whilst landscaped areas may be grade A15. All to be laid in accordance with Part 8 of Building Regulations 2010, Tables 11 & 12.
 - Precast concrete chamber rings to be reinforced.
- BACKCOPS**
- Backcops in the private manholes / inspection chambers to be internal.
 - Backcops in the main drainage system being offered for adoption are to be in accordance with Section 7th Edition - for additional information see Drainage Construction Details.
- REDDING AND SURROUND**
- Private sewers located under adopted / private roads to be Class 3 Granular Bed and Surrounded with a minimum of 1.2m cover. Where this cannot be achieved a Class 2 Concrete Bed and Surround is to be provided - for additional information see Road Construction Details.
 - Private sewers located under landscaped areas or driveways / car parking bays to be Class 3 Granular Bed and Surrounded with a minimum of 0.6m cover. Where this cannot be achieved a Class 2 Concrete Bed and Surround is to be provided - for additional information see Road Construction Details.
- SERVICES**
- All underground services to be confirmed by contractor prior to commencement on site. Any discrepancies to be reported to engineer.

Proposed Stilling Chamber S165
A stilling chamber to reduce potential discharge velocities into the canal to below 0.3m/s.
Discharge into the canal S164
IL discharging into the canal to be set at least 1.0m below the nominal water level.

Flow Control Chamber Manhole S143HB
Hydro International HydroBroke Optimum
SHE-0100-5000-1400-5000
Design head = 1.40m
Restricted discharge max. = 5.0 l/sec
Flow control orifice size 100mm
CL - 172.483mAOD
IL - 170.536mAOD

Online Attenuation Basin 1
To attenuate flows up to 1:100 year storm + 45% climate change
Incoming Invert Level: 171.448mAOD
Base Level: 171.070mAOD
Top of Bank Level: 171.363mAOD (293mm)
1yr Water Level: 171.751mAOD (645mm)
30yr Water Level: 171.881mAOD (81mm)
100yr + 45% CC Water Level: 172.244mAOD (1174mm)
Freeboard: 326mm
Temp maximum storage volume: 1876.054m³
Top of bank area: 1796.799m²
Bottom of bank:

High Level Over Flow-Low Level Return
• HLO invert @ S139: 172.200 mAOD
• HLO pipe from S139 to CP10 laid @ 1:20 (3.89mm)
• HLO invert @ CP10: 172.000 mAOD
• 30yr Water Level @ S139: 172.125 mAOD
• LLR invert @ CP10: 32.852 mAOD
• LLR pipe from CP10 to S139 laid @ 1:167
• LLR invert @ S139: 32.785 mAOD
• LLR to be fitted with Non-return Valve @ CP10
• CP10 to have 300mm sump

Proposed Off-line Cellular Storage 10
Cells 10
CL: 173.157 mAOD
IL: 171.549 mAOD
Length x Width x Depth = 4.0m x 10.0m x 0.8m
Activation Water Level = 172.000 mAOD
• 2no. layers of 400mm deep units.
(Wavin Aquacel or similar approved)
• Single Cell Unit Size = 1.0m x 0.5m x 0.4m.
• Minimum cover depth - 300mm for landscaped areas.
• 700mm for car parks with vehicle mass <12 tonnes.
• Plan Area - 40m².
• 95% voidratio assumed.
• Storage volume provided - 30.4m³.

Online Attenuation Swale 3
To attenuate flows up to 1:100 year storm + 45% climate change
Incoming Invert Level: 165.299mAOD
Base Level: 164.855mAOD
Top of Bank Level: 166.355mAOD
1yr Water Level: 166.000mAOD (1145mm)
30yr Water Level: 166.008mAOD (1153mm)
100yr Water Level: 166.012mAOD (1157mm)
100yr + 45% CC Water Level: 166.018mAOD (1163mm)
Freeboard: 337mm
Temp maximum storage volume: 1298.882m³
Top of bank area: 1593.752m²
Bottom of bank: 900.214m²

High Level Over Flow-Low Level Return
• HLO invert @ S17: 175.500 mAOD
• HLO pipe from S17 to CP3 laid @ 1:20 (3.55mm)
• HLO invert @ CP3: 175.197 mAOD
• 30yr Water Level @ S17: 175.485 mAOD
• LLR invert @ CP3: 173.563 mAOD
• LLR pipe from CP3 to S17 laid @ 1:167
• LLR invert @ S17: 173.366 mAOD
• LLR to be fitted with Non-return Valve @ CP3
• CP3 to have 300mm sump

Proposed Off-line Cellular Storage 3
Cells 3
CL: 176.449 mAOD
IL: 173.572 mAOD
Length x Width x Depth = 20m x 5.5m x 2.0m
Activation Water Level = 175.500 mAOD
• 5no. layers of 400mm deep units.
(Wavin Aquacel or similar approved)
• Single Cell Unit Size = 1.0m x 0.5m x 0.4m.
• Minimum cover depth - 300mm for landscaped areas.
• 700mm for car parks with vehicle mass <12 tonnes.
• Plan Area - 110m².
• 95% voidratio assumed.
• Storage volume provided - 209m³.

High Level Over Flow-Low Level Return
• HLO invert @ S30: 175.500 mAOD
• HLO pipe from S30 to CP5 laid @ 1:20 (3.55mm)
• HLO invert @ CP5: 174.822 mAOD
• 30yr Water Level @ S30: 175.485 mAOD
• LLR invert @ CP5: 173.428 mAOD
• LLR pipe from CP5 to S30 laid @ 1:162
• LLR invert @ S30: 173.343 mAOD
• LLR to be fitted with Non-return Valve @ CP5
• CP5 to have 300mm sump

Proposed Off-line Cellular Storage 5
Cells 5
CL: 176.405 mAOD
IL: 173.451 mAOD
Length x Width x Depth = 10m x 8.5m x 1.6m
Activation Water Level = 175.500 mAOD
• 5no. layers of 400mm deep units.
(Wavin Aquacel or similar approved)
• Single Cell Unit Size = 1.0m x 0.5m x 0.4m.
• Minimum cover depth - 300mm for landscaped areas.
• 700mm for car parks with vehicle mass <12 tonnes.
• Plan Area - 85m².
• 95% voidratio assumed.
• Storage volume provided - 129.2m³.

Proposed Off-line Cellular Storage 2
Cells 2
CL: 176.744 mAOD
IL: 173.248 mAOD
Length x Width x Depth = 16m x 8m x 2.0m
Activation Water Level = 175.500 mAOD
• 5no. layers of 400mm deep units.
(Wavin Aquacel or similar approved)
• Single Cell Unit Size = 1.0m x 0.5m x 0.4m.
• Minimum cover depth - 300mm for landscaped areas.
• 700mm for car parks with vehicle mass <12 tonnes.
• Plan Area - 128m².
• 95% voidratio assumed.
• Storage volume provided - 243.2m³.

High Level Over Flow-Low Level Return
• HLO invert @ S37HB: 175.500 mAOD
• HLO pipe from S37HB to CP2 laid @ 1:20 (4.479mm)
• HLO invert @ CP2: 175.276 mAOD
• 30yr Water Level @ S37HB: 175.485 mAOD
• LLR invert @ CP2: 173.231 mAOD
• LLR pipe from CP2 to S37HB laid @ 1:167
• LLR invert @ S37HB: 173.204 mAOD
• LLR to be fitted with Non-return Valve @ CP2
• CP2 to have 300mm sump

Proposed Off-line Cellular Storage 4
Cells 4
CL: 176.430 mAOD
IL: 173.248 mAOD
Length x Width x Depth = 12m x 5.0m x 2.0m
Activation Water Level = 175.500 mAOD
• 5no. layers of 400mm deep units.
(Wavin Aquacel or similar approved)
• Single Cell Unit Size = 1.0m x 0.5m x 0.4m.
• Minimum cover depth - 300mm for landscaped areas.
• 700mm for car parks with vehicle mass <12 tonnes.
• Plan Area - 60m².
• 95% voidratio assumed.
• Storage volume provided - 114m³.

High Level Over Flow-Low Level Return
• HLO invert @ S40HB: 175.500 mAOD
• HLO pipe from S40HB to CP4 laid @ 1:20 (7.484mm)
• HLO invert @ CP4: 172.716 mAOD
• 30yr Water Level @ S40HB: 175.485 mAOD
• LLR invert @ CP4: 169.446 mAOD
• LLR pipe from CP4 to S40HB laid @ 1:167
• LLR invert @ S40HB: 169.385 mAOD
• LLR to be fitted with Non-return Valve @ CP4
• CP4 to have 300mm sump

Online Attenuation Swale 1
To attenuate flows up to 1:100 year storm + 45% climate change
Incoming Invert Level: 167.560mAOD
Base Level: 167.013mAOD
Top of Bank Level: 168.513mAOD
1yr Water Level: 167.644mAOD (631mm)
30yr Water Level: 168.101mAOD (1108mm)
100yr Water Level: 168.135mAOD (1122mm)
100yr + 45% CC Water Level: 168.197mAOD (1184mm)
Freeboard: 326mm
Temp maximum storage volume: 1980.719m³
Top of bank area: 2346.589m²
Bottom of bank:

Flow Control Chamber Manhole S40HB
Hydro International HydroBroke Optimum
SHE-0125-1550-3500-1550
Design head = 3.500m
Restricted discharge max. = 13.5 l/sec
Flow control orifice size 125mm
CL - 173.327mAOD
IL - 169.385mAOD

Flow Control Chamber Manhole S37HB
Hydro International HydroBroke Optimum
SHE-0112-8200-2550-8200
Design head = 1.400m
Restricted discharge max. = 8.2 l/sec
Flow control orifice size 112mm
CL - 174.769mAOD
IL - 173.054mAOD

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