

NOTES

- This drawing is to be read in conjunction with drawing Nos. FC2780/01-25.
- Existing on-site drainage is shown on drawing FC2780/01.
- All adopted drainage and connections to the sewer system are to be constructed in accordance with 'Sewers for Adoption' 9/7th Edition or as stipulated in the Southern Water Addendum.
- Connections to the adopted drainage system are subject to the approval of Southern Water the Drainage Authority. Diverted, dived, build close to/over sewers, and new sewers are subject to SW approval. All other drainage is to remain private.
- All pipes to be adopted, or connecting to adopted sewers, and/or situated under highway to be verified clay to BS EN 255 & BS55 (SWS only), or Concrete pipes to BS EN 1916 & BS591 Part 1, or Thermoplastic Structured wall sewer pipes to WIS 4-35-01 (class 8kN/m²) and be capable of withstanding 4000 PSI jetting pressure.
- Cover levels shown are approximate. Covers and frames shall be set to finished ground levels and falls.
- All drainage to be constructed to BS EN 752:1999 and subject to the approval of Building Control/LPA and the Environment Agency.
- Gully and channel drain positions are liable to amendment when the design levels have been determined.
- All downpipes are to be sealed, ie connected directly to the stormwater drain. Access points to be provided 1m above ground level for external RWP's and 1m above FFL for internal RWP's.
- All below ground concrete to accord with ACEC site classification of AC-1 tbc, as per Geotechnical Report.
- Acco channel drain to be K100S with grade C250 Quicklock 'Heelguard' cast iron grating or equivalent, where adjacent to kerbing or within pedestrian areas. Elsewhere Acco channel drain to be Road Drain 100 Class F. All channel drain outlets to have oil traps.
- The Contractor should construct works in accordance with the Local Authority specification for the works they are to undertake.
- Road gully pipes are to be 150mm dia, with concrete surround and flexible joints, all other un-referenced pipes are assumed to be 100mm dia.
FW min gradient - 1 in 40 (100 dia) no WC's connected
FW min gradient - 1 in 80 (100 dia) min 1 WC connected
FW min gradient - 1 in 150 (150 dia) min 5WC's
SW min gradient - 1 in 100 (100/150 dia)
- If any sub soil drainage systems are uncovered during the Works contact the Engineer for instructions. Generally sub soil drains affected are to be diverted around new Works and connected into the surface water drainage system. Pipe diameters and gradients are to be maintained.
- Before commencing construction the Contractor must check the invert levels of existing sewers to which connections are made. In addition the Contractor must locate and determine invert levels of the existing spurs to which connections are proposed. Additional spirit/level connections are to be agreed with the relevant adopting authority. Any discrepancies are to be notified to the Engineer immediately, prior to construction.
- Road reinstatements are to be to the Highway Authority approval.
- No private areas are to drain onto adoptable areas and vice versa.
- All redundant drainage to be abandoned once the Contractor and Client have satisfied themselves that no connections remain live. Drains and sewers less than 1.5m deep which are in open ground should as far as is practicable be removed. Other pipes should be sealed at both ends and at any other point of connection and solidly filled at intervals not exceeding 25m with Class G3 or G4).

SUBJECT TO CONFIRMATION OF:
Proposed Ext Levels
RWP/CD positions
Landscaping
Wavin Design
ACEC site classification
BRE365 Testing and GW monitoring in Dec to LPA approval

SUBJECT TO THE APPROVAL OF:
LPA/LLFA
BUILDING CONTROL/NHBC

BUDGET ONLY

A	Issued For BUDGET/APPROVAL ONLY	17/10/18
-	Issued For BUDGET/APPROVAL ONLY	10/09/18
REV	DESCRIPTION	DATE

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PROJECT	MIDDLETON HOUSE YAPTON ROAD MIDDLETON PO22 6DU
DRAWING	PROPOSED DRAFT SW DRAINAGE LAYOUT OPTION 1 TRENCH SOAKAWAY
FC No.	FC2780/2.1
SCALE	1:100
DATE	SEPT 18
INITIAL	MH
CHNG	-
REV	A

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Levels as shown are draft and subject to confirmation on site.
Levels Based on Ordinary Datum using Sewer Records

Middleton House

GF
FFL 5.55

Veg Garden

Little Hazels

SAT1 - Trench Soakaway
using Wavin Aquasol Eco Units with 1No 1500 low flow maintenance channels
Min 0.30m cover Required
Wavin Bat tbc.
CL 5.35 tbc
TDCL 4.50 tbc
PILBOSL 4.50 tbc
Tank Size 10.0 x 6.0 x 0.6m dtp
Storage Provided = 21.8m³
Area Drained = 500m² (Roof and Rear patio only)
SIR = 0.0252 m/hr = 7x10⁻³m/s
FOS = 3
SRP = 100yrs + 40% CC
GWL = Assumed lower than 0.85m BGL
SAT to be positioned min 5m from Exposed structures

Legend (Scale 1:100)

Existing Foul/Surface Sewer/Drain to be retained	Foul Sewer/Drain	Surface Water Sewer/Drain	SW Soakaway	SW Attenuation Tank
Existing Foul/Surface Sewer/Drain to be abandoned	Soil and Vent Pipe / Gully Connection	Rainwater Pipe	SW Fompage Distribution Box with 1100 pipe outlet	Fompage Baffle
Channel Drain	Air Admittance Valve (durgu) / Stub Stack	SW Type 4 Inspection Chamber (1900 min)	Porous Block Paving - Fompage acting as Blanket Soakaway with level formation @ 4.25 Refer to Fompage Drawings for formation levels/construction and details	
Road Gully	FW Type 4 Inspection Chamber (1900 min)	SW Type 3 Inspection Chamber (4500 min)	Porous Block Paving - Fompage acting as Blanket Soakaway with level formation @ 3.98 Refer to Fompage Drawings for formation levels/construction and details	
Yard Gully	FW Type 3 Inspection Chamber (4500 min)	SW Type 1/2 Manhole		
Rodding Eye	FW Type 1/2 Manhole	Back Inlet Gully		
SW Pumped Rising Main	FW Type 1/2 Manhole	Finished Floor Level		
FW Pumped Rising Main	Vertical/Ramped Backdrop			

- NOTE THE FOLLOWING:
- SW Soakaway
 - 1.1. Refer to Wavin Design & Details dated xxx
 - 1.2. Bwg-Ref-xxx
- SW DRAINAGE DESIGN BASED ON:
- Soakaways
 - Area Drained = 300m² (Roof and Rear patio only)
 - SIR = 0.0252 m/hr = 7x10⁻³m/s
 - FOS = 3
 - GWL = Assumed lower than 0.85m BGL
 - SRP = 100yrs + 40% CC