



Detention Basin Details:
 Design Based on Impermeable Area of 1.500ha
 (20150430MasterplanUpdatedConstraints-AreaCalculations)
 Bed Level: 45.60m AOD
 Top of Bank Level: 46.60m AOD (minimum)
 Maximum depth of water: 1.0m
 Freeboard depth: 0.30m
 Max volume 1150m³ to accommodate storage up to a 1:100yr + 30% Climate Change storm event.
 Internal embankments to be constructed at a maximum 1 in 3 gradient.
 Base to have a permanent wetland feature of 1.0m depth (Optional).
 Surface Water Flow to be restricted via a Hydro-break or similar flow control device to 5.8l/s (equivalent Qbar rate).

Detention Basin Details:
 Design Based on Impermeable Area of 2.95ha
 (20150430MasterplanUpdatedConstraints-AreaCalculations)
 Bed Level: 47.10m AOD
 Top of Bank Level: 48.10m AOD (minimum)
 Maximum depth of water: 1.0m
 Freeboard depth: 0.30m
 Max volume 2305m³ to accommodate storage up to a 1:100yr + 30% Climate Change storm event.
 Internal embankments to be constructed at a maximum 1 in 3 gradient.
 Base to have a permanent wetland feature of 1.0m depth (Optional).
 Surface Water Flow to be restricted via a Hydro-break or similar flow control device to 11.4l/s (equivalent Qbar rate).

Detention Basin Details:
 Design Based on Impermeable Area of 3.365ha
 (20150430MasterplanUpdatedConstraints-AreaCalculations)
 Bed Level: 48.40m AOD
 Top of Bank Level: 49.40m AOD (minimum)
 Maximum depth of water: 1.0m
 Freeboard depth: 0.30m
 Max volume 2635m³ to accommodate storage up to a 1:100yr + 30% Climate Change storm event.
 Internal embankments to be constructed at a maximum 1 in 3 gradient.
 Base to have a permanent wetland feature of 1.0m depth (Optional).
 Surface Water Flow to be restricted via a Hydro-break or similar flow control device to 12.9l/s (equivalent Qbar rate).

The Ridgeway:
 Proposed T-junction (see M-EC drawing 20459_03_001 for further details)

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- GENERAL NOTES:
- DO NOT SCALE THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DESIGN DRAWINGS AND DETAILS.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS FOR STRATEGY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- KEY:
- Site boundary
 - Shatford Brook and Stratford Upon Avon Canal Centreline
 - Existing ditches 5m Buffer zone
 - 55dB L₉₀ noise contour
 - Abandoned surface water network
 - Category C Tree Root Protection Area
 - 1 in 100yrs + CC flood extents
 - 1 in 1000yrs flood extents
 - Proposed Detention basin
 - Proposed foul water network
 - Proposed surface water network
 - Proposed sewer easement to be 2.5m either side
 - Existing combined sewers (refer to Severn Trent Water plans)
 - Existing electricity cables above and below ground (refer to Western Power plans)
 - Existing BT cables above and below ground (refer to BT plans)
 - Existing gas pipes (refer to National Grid plans)
 - Existing water mains (refer to Severn Trent Water plans)
 - Existing cable TV cables (refer to Virgin Media plans)

REV	DESCRIPTION	DATE
A	Change (strip, amend and AECOM food removed)	20.05.15

PROJECT: BISHOPTON LANE STRATFORD-UPON-AVON

DRAWING TITLE: TECHNICAL CONSTRAINTS PLAN

CLIENT: TAYLOR WIMPEY UK LTD AND MILLER HOMES

DRAWING NUMBER: 20459_00_010_01

REVISION	SHEET SIZE	SCALE
A	A0	1:2000

DRAWN BY	CHECKED BY	DATE
GP	NO	03.03.2015

STATUS: PRELIMINARY

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