



PROPOSED ROAD (TO BE ADOPTED BY WCC) TO BE CENTERED OVER EXISTING AQUEDUCT AND HAVE AN OVERALL CORRIDOR OF 10m (6m CARRIAGEWAY + 2x2m FOOTPATHS) WHICH PROVIDES A 10m OVERALL EASEMENT

PROPOSED LAND DRAIN INTERCEPTING OVERLAND FLOWS FROM THE FIELDS TO THE WEST AND WILL INFILTRATE AT A RATE OF APPROXIMATELY 3.26x10⁻⁶ m/s. DIMENSIONS APPROXIMATELY 190m LONG BY 1m WIDE AND EXTEND DOWN TO SANDSTONE STRATA TYPICALLY 600mm DEEP.

PROPOSED ROAD (TO BE ADOPTED BY WCC) TO BE CENTERED OVER EXISTING AQUEDUCT AND HAVE AN OVERALL CORRIDOR OF 10m (6m CARRIAGEWAY + 2x2m FOOTPATHS) WHICH PROVIDES A 10m OVERALL EASEMENT

APPROXIMATELY 105 DWELLINGS AND ASSOCIATED GARAGES, PRIVATE DRIVES AND 15 SHARED DRIVES TO BE DRAINED VIA INFILTRATION BASINS LOCATED IN POS. INDICATIVE LOCATIONS SHOWN.

ALL INFILTRATION FEATURES SERVING DRIVEWAYS TO INCLUDE DOWNSTREAM DEFENDER OR SIMILAR APPROVED OIL SEPARATOR PRIOR TO ANY INFILTRATION INTO THE GROUND.

ASSUMED INFILTRATION RATE = 3.92x10⁻⁶m/s BASED ON AVERAGE RATE FROM SITE WIDE TESTING CARRIED OUT BY GEORISK MANAGEMENT.

APPROXIMATELY 119 DWELLINGS AND ASSOCIATED GARAGES, PRIVATE DRIVES AND 8 SHARED DRIVES TO BE DRAINED VIA PRIVATE GEOCELLULAR SOAKAWAYS.

APPROXIMATELY 7.5m³ SOAKAWAY VOLUME REQUIRED PER PLOT. TOTAL APPROXIMATE GEOCELLULAR VOLUME REQUIRED = 2300m³.

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IT HAS BEEN OBSERVED THAT THE 'HALF DRAIN' TIME OF SOME CELLULAR SOAKAWAY UNITS MAY BE IN EXCESS OF 24HOURS DURING THE 10 YEAR RETURN PERIOD. THE LLFA SHOULD BE CONSULTED TO DETERMINE AN ACCEPTABLE THRESHOLD FOR THE HALF DRAIN TIME.

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- KEY**
- SITE BOUNDARY
 - PROPOSED ADOPTABLE STORM SEWER
 - PROPOSED ADOPTABLE HEADWALL
 - PROPOSED ADOPTABLE FOUL WATER SEWER
 - EXISTING 800mm AQUEDUCT
 - DUNLEY BROOK (CULVERTED WATERCOURSE)
 - PRIVATE DRIVES INFILTRATING VIA CELLULAR SOAKAWAYS
 - PRIVATE DRIVES INFILTRATING VIA PRIVATE INFILTRATION BASINS
 - PRIVATE DRIVES DISCHARGING TO GRAVITY SEWER NETWORK
 - PLOTS DISCHARGING VIA CELLULAR SOAKAWAY
 - PLOTS DISCHARGING TO GRAVITY SEWER NETWORK
 - PLOTS INFILTRATING VIA PRIVATE INFILTRATION BASINS
 - DRAINAGE EASEMENT
 - INFILTRATION LAND DRAIN
 - PROPOSED PRIVATE INFILTRATION BASIN
 - APPROXIMATE FINISHED FLOOR LEVEL
 - BANKING
 - EXPOSED BRICKWORK WITH NUMBER OF COURSES
 - MASONRY RETAINING WALL WITH HEIGHT
 - GRAVEL BOARD WITH HEIGHT
 - TANKING WITH NUMBER OF COURSES

NOTES:

ALL DESIGN INFORMATION IS PRELIMINARY AND SUBJECT TO DETAILED DESIGN.

SEVERN TRENT WATER, WORCESTERSHIRE COUNTY COUNCIL & THE LLFA WILL NEED TO APPROVE THE DRAINAGE PRINCIPLES.

REV	DESCRIPTION	DATE	BY	AUTH
C	DRAINAGE STRATEGY UPDATED TO NEW LAYOUT	15.12.20	NN	CAO
B	DRAINAGE STRATEGY UPDATED TO NEW LAYOUT	20.10.20	NN	CAO
A	DRAINAGE STRATEGY UPDATED TO NEW LAYOUT	05.10.20	NN	CAO

CLIENT BARRATT WEST MIDLANDS		PROJECT LAND WEST OF PEARL LANE STOURPORT ON SEVERN	
TITLE DRAINAGE STRATEGY AND LEVELS - SHEET 1		STATUS PRELIMINARY/FOR PLANNING	
DRAWN PB	AUTHORISED CAO	SCALE 1:500@A0	DATE 07.10.19
PROJECT NO. 0056	DRAWING NO. 3	REV C	