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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)
 - POROUS PAVING (INFILTRATION TO THE GROUND)
 - LINED POROUS PAVING (OUTFALL TO GRAVITY SEWER NETWORK)
 - PLOTS DISCHARGING TO SOAKAWAY
 - PLOTS DISCHARGING TO GRAVITY SEWER NETWORK
 - DRAINAGE EASEMENT
 - 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.

A	DRAINAGE STRATEGY UPDATED TO NEW LAYOUT	05.10.20	NN	CAO
REV	DESCRIPTION	DATE	BY	AUTH

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



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APPROXIMATELY 173 DWELLINGS AND ASSOCIATED GARAGES TO BE DRAINED VIA PRIVATE GEOCELLULAR SOAKAWAYS.

APPROXIMATELY 7.5m³ SOAKAWAY VOLUME REQUIRED PER PLOT. TOTAL APPROXIMATE VOLUME REQUIRED = 1300m³.

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

IT HAS BEEN OBSERVED THAT THE 'HALF DRAIN' TIME OF SOME PERMEABLE PAVED DRIVEWAYS AND 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.

PROPOSED ROAD (TO BE ADOPTED BY WCC) TO BE CENTERED OVER EXISTING AQUEDUCT AND HAVE AN OVERALL CORRIDOR OF 10m (5m CARRIAGEWAY + 2x2m FOOTPATHS) WHICH PROVIDES A 10m OVERALL EASEMENT