

OPERATION AND MAINTENANCE REQUIREMENTS FOR ATTENUATION STORAGE TANKS		
MAINTENANCE SCHEDULE	REQUIRED ACTION	TYPICAL FREQUENCY
REGULAR MAINTENANCE	INSPECT & IDENTIFY ANY AREAS THAT ARE NOT OPERATING CORRECTLY. IF REQUIRED, TAKE REMEDIAL ACTION	MONTHLY FOR 3 MONTHS THEN ANNUALLY
	REMOVE DEBRIS FROM THE CATCHMENT SURFACE (WHERE IT MAY CAUSE RISK TO PERFORMANCE)	MONTHLY
	REMOVE SEDIMENT FROM PRE-TREATMENT ROAD GULLIES & SILT TRAP MANHOLE	MONTHLY FOR 3 MONTHS THEN ANNUALLY OR AS REQUIRED
REMEDIAL ACTIONS	REPAIR/REHABILITATE INLETS, OUTLETS, OVERFLOWS & VENTS	AS REQUIRED
MONITORING	INSPECT/CHECK ALL INLETS, OUTLETS, VENTS & OVERFLOWS TO ENSURE THAT THEY ARE IN GOOD CONDITION & OPERATING AS DESIGNED CCTV SURVEY INSIDE OF TANK FOR SEDIMENT BUILD-UP & REMOVE IF NECESSARY	ANNUALLY AFTER CONSTRUCTION, 1 YEAR & THEN EVERY 5 YEARS OR AS REQUIRED

DO NOT SCALE, IF IN DOUBT ASK. DO NOT INTERROGATE CAD BASE

- DRAINAGE NOTES:**
- THIS DRAWING HAS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS & ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - FOR DRAINAGE DETAILS REFER TO DRAWING PXXXXX.
 - FOR LOCATION OF ALL R.W.P.'S & INTERNAL POP-UPS REFER TO ARCHITECTS DRAWING. ALL DOWN PIPES TO BE FITTED WITH ACCESS HANDHOLES ABOVE F.F.L. OR GROUND LEVEL.
 - ALL GULLY CONNECTIONS TO BE 1500 U.N.O. ALL S.V.P. CONNECTIONS TO BE MINIMUM 1000 OR TO MATCH S.V.P. DOWNPIPE IF GREATER. ALL R.W.P. CONNECTIONS TO BE 1500 OR TO MATCH R.W.P. DOWNPIPE.
 - ALL PIPES UP TO 4500 TO BE UPVC PIPES. PIPES GREATER THAN 4500 TO BE CONCRETE.
 - PIPES UNDER ROADS HAVING 1200mm OR LESS COVER ARE TO BE ENCASED IN CONCRETE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 - MANHOLE COVER LEVELS ARE INDICATIVE AND SHOULD BE SET TO SUIT FINISHED ROAD LEVEL AND CAMBER.
 - ALL EXTERNAL MANHOLES WITHIN ROADS TO BE FITTED WITH LOAD CLASS D400 COVERS U.N.O. ALL EXTERNAL MANHOLES WITHIN SOFT LANDSCAPING TO BE FITTED WITH LOAD CLASS B125 COVERS U.N.O. ALL IN ACCORDANCE WITH BS EN 124:2015 (ALL PARTS).
 - INVERT LEVELS OF EXISTING DRAINS AND MANHOLES TO BE CONFIRMED ON SITE PRIOR TO COMMENCING OPERATIONS. NO EXISTING SEWER MANHOLE TO BE OPENED OR ENTERED WITHOUT THE PERMISSION OF THE LOCAL AUTHORITY DRAINAGE DEPARTMENT AND THE ATTENDANCE OF SEWER PERSON AS REQUIRED.
 - DRAINAGE DESIGN AND INSTALLATION TO BE TO THE SATISFACTION OF THE LOCAL BUILDING CONTROL DEPARTMENT AND TO COMPLY WITH BS EN 752:2017, BS EN 1610:2015, BS EN 12056-1:2000, BS EN 12056-2:2000 and BS EN 12056-3:2000.
 - ADAPTABLE DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF 'SEWERS FOR ADOPTION'.
 - ALL SUDS COMPONENTS TO BE MAINTAINED IN ACCORDANCE WITH CIRIA C 768.
 - SURFACE WATER ATTENUATION CRATES TO BE WAVIN AQUACELL PLUS OR SIMILAR APPROVED. TO BE INSTALLED IN LINE WITH MANUFACTURES SPECIFICATION.

SURFACE WATER ATTENUATION

PROPOSED IMPERMEABLE AREA: 2280m² (0.228 Ha)
 EXISTING IMPERMEABLE AREA: 2890m² (0.289 Ha)
 SITE AREA: 3470m² (0.347 Ha)

EXISTING SW RUN-OFF FOR 1 IN 1 YEAR STORM EVENT = 32.7 L/S (REFER TO EXISTING NETWORK CALCULATIONS FOR DETAILS)

DISCHARGE RATE: 32.7 L/S - 30% = 22.9 L/S*
 (*1 IN 1 YEAR SURFACE WATER RUN-OFF - 30% AS AGREED WITH YORKSHIRE WATER)

CELLULAR TANK DIMENSIONS: 12m x 6m x 0.8m x 0.95 = 54.7m³
 STORM EVENT: 1 IN 100YR + 40% CLIMATE CHANGE

- CDM NOTES**
- ACCESS AND EGRESS TO THE SITE FROM BUSY ROAD.
 - POTENTIAL GROUND INSTABILITY IN DEEP EXCAVATIONS
 - NO HEAVY PLANT OR STOCK PILES PERMITTED OVER OR WITHIN 3m OF THE CONSTRUCTED TANK
 - TANK TO BE FULLY PROTECTED FROM SILT AND DEBRIS INGRESS DURING CONSTRUCTION, AND TO BE INSPECTED AND MAINTAINED DURING OPERATION AS DETAILED ABOVE
 - TANKS NOT DESIGNED TO RESIST UPLIFT UNTIL FULLY BACKFILLED
 - EXISTING SERVICES IDENTIFIED ON SITE
 - ADEQUATE SEGREGATION HOARDING REQUIRED TO SEPARATE PUBLIC FROM THE CONSTRUCTION SITE.
 - ADEQUATE MEASURES REQUIRED TO CONTROL NOISE, DUST, FUMES & VIBRATION.

REV.	DATE	REVISION	BY	CHK.
-		FIRST ISSUE	PH	NB
A	05.09.23	UPDATED TO CONSTRUCTION ISSUE.	PH	NB

Euro Garages Ltd

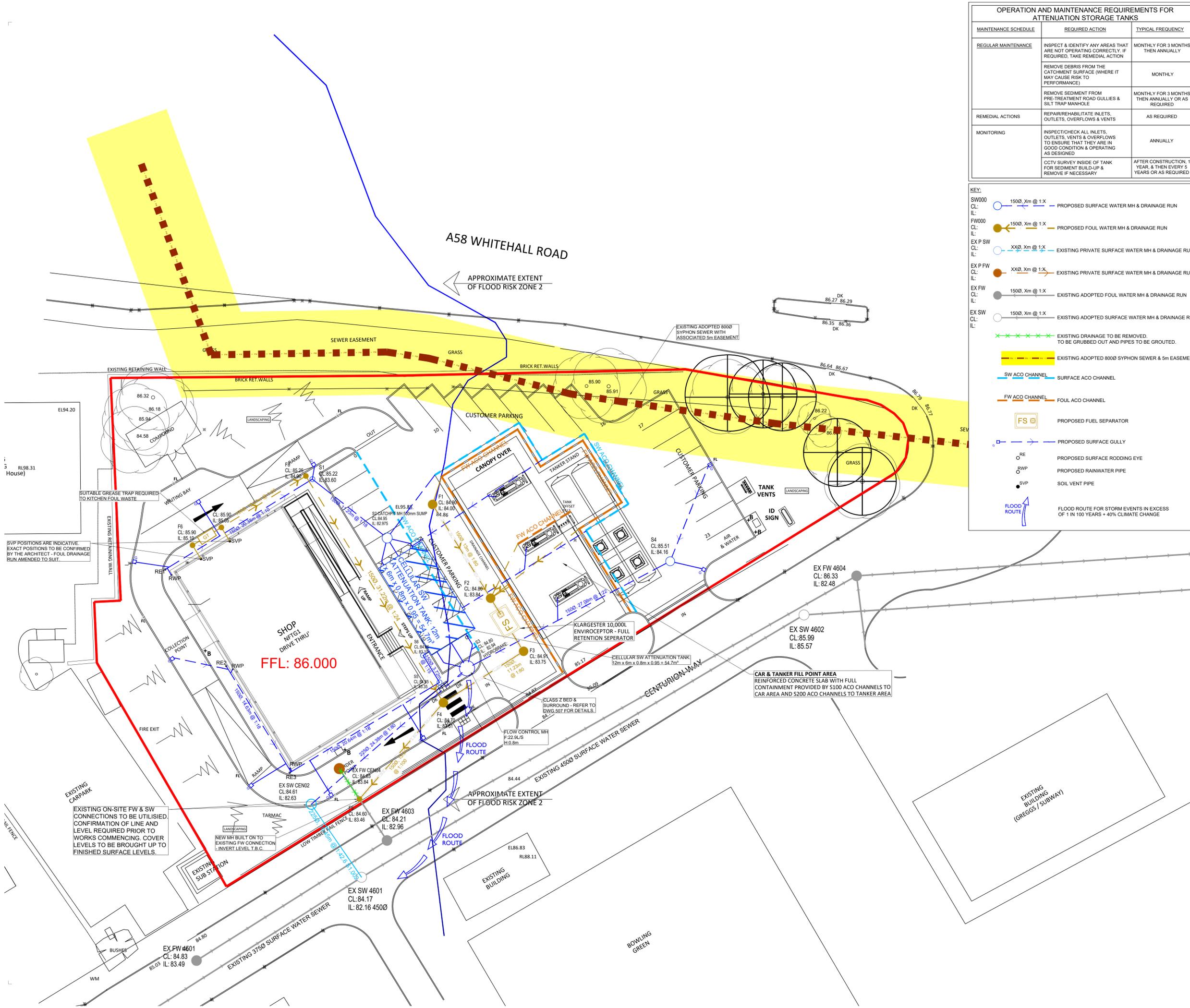
Proposed PFS & Drive 'Thru' Restaurant
 Centurion Way, Cleckheaton

Proposed Drainage Layout Plan

Goodson Associates
 Consulting Civil, Structural & Transportation Engineers
 Fountain House, 4 South Parade,
 Leeds, LS1 5QX
 Also at Aberdeen, Edinburgh and Glasgow.

Tel: +44 (0)113 369 7925
 Fax: -
 Email: leads@goodsons.com
 Web: www.goodsons.com

CONSTRUCTION			
DATE CREATED:	Sept '23'	SCALE:	1:200 @ A1
CONTRACT No:	PI5622	DRAWING No:	500
REV:			A



SVP POSITIONS ARE INDICATIVE. EXACT POSITIONS TO BE CONFIRMED BY THE ARCHITECT - FOUL DRAINAGE RUN AMENDED TO SUIT.

EXISTING ON-SITE FW & SW CONNECTIONS TO BE UTILISED. CONFIRMATION OF LINE AND LEVEL REQUIRED PRIOR TO WORKS COMMENCING. COVER LEVELS TO BE BROUGHT UP TO FINISHED SURFACE LEVELS.

NEW MH BUILT ON TO EXISTING FW CONNECTION INVERT LEVEL T.B.C.

CAR & TANKER FILL POINT AREA REINFORCED CONCRETE SLAB WITH FULL CONTAINMENT PROVIDED BY S1000 ACO CHANNELS TO CAR AREA AND S200 ACO CHANNELS TO TANKER AREA.

APPROXIMATE EXTENT OF FLOOD RISK ZONE 2