



FILTER DRAIN NOTE
 FILTER DRAINS CAN BE FORMED ALONG THE EDGE OF THE COURTYARD AND FOOTPATHS AROUND THE PERIMETER OF THE MAIN BUILDING.
 SURFACE WATER RUN-OFF FROM THESE AREAS WILL DISCHARGE TO THE FILTER DRAIN PRIOR TO DISCHARGE TO MAIN DRAINAGE NETWORK.
 THE FILTER DRAIN WILL BE FORMED OF A 300x300mm DEEP TRENCH FILLED WITH 20mm NO FINES AGGREGATE AND WRAPPED IN A PERMEABLE MEMBRANE. THE TRENCH WILL HOUSE A PERFORATED PIPE WHICH WILL CONVEY THE SURFACE WATER TO THE MAIN NETWORK.
 THE FILTER DRAIN SYSTEM WILL REDUCE THE SURFACE WATER RUN-OFF RATES, AND ACT AS A POLLUTANT CONTROL.

SURFACE WATER ATTENUATION TANK :

TYPE	CELLULAR UNITS
LENGTH	34.00m
WIDTH	8.00m
AREA	272.00m ²
DEPTH	0.80m
VOLUME	217.60m ³
POROSITY	0.95
ATTENUATION	206.72m ³
INVERT LEVEL	111.880m
SOFFIT LEVEL	112.680m
COVER	700mm

FLOW CONTROL CHAMBER :
 CONTROL - HYDRO-BRAKE
 INVERT LEVEL - 111.820
 DESIGN HEAD - 1.230
 DESIGN FLOW - 2.7 l/s
 DIAMETER - 75mm
 UNIT REFERENCE :
 MD-SHE-0075-2700-1230-2700
 PEAK SW DISCHARGE - 2.6 l/s

PERMEABLE PAVING NOTE
 PERMEABLE PAVING TO BE FORMED IN THE PARKING BAYS OF THE CAR PARK TO THE SOUTH OF THE SITE.
 THE PERMEABLE SURFACING WILL BE FORMED OVER A 300mm DEEP SUB-BASE CONSISTING OF 20mm NO FINES AGGREGATE, WHICH HOUSES A PERFORATED PIPE TO CONVEY THE SURFACE WATER TO THE INFILTRATION STRUCTURE.
 THE PERMEABLE SURFACING SYSTEM WILL REDUCE THE SURFACE WATER RUN-OFF RATES, AND ACT AS A POLLUTANT CONTROL.

GENERAL DRAINAGE NOTES :

- EXISTING DETAILS SHOWN ON THIS DRAWING INCLUDING KERBLINES, EXISTING DRAINS, CHAMBERS, SEWERS, PIPEWORK, STUB CONNECTIONS WHERE NEW CONNECTIONS, DIVERSIONS OR ABANDONMENT ARE SHOWN. INVERT LEVELS AND PIPE SIZES SHALL BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR ACTION PRIOR TO ANY NEW CONSTRUCTION.
- ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS AND CODES OF PRACTICE.
- ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DRAINAGE CONSTRUCTION DETAILS AND THE REQUIREMENTS OF BS EN 752.
- ACCESS COVERS AND FRAMES SHALL COMPLY WITH THE LOADINGS SPECIFIED AND TO BS EN 124 AND KITEMARKED OR IF RECESSED COVERS ARE SPECIFIED THEM IN ACCORDANCE WITH FACTA ASSOCIATION EQUIVALENT.
- THE PROPOSED BUILDING OUTLINES SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. REFER TO ARCHITECTS PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS.
- ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE WITH LONG RADIUS BENDS KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.
- ALL PRIVATE DRAINAGE PIPEWORK FOR FOUL AND SURFACE WATER SYSTEMS HAVE BEEN DESIGNED ON THE BASIS OF UPVC TO BS EN 1401-1, UNLESS NOTED OTHERWISE.
- WHERE NEW DRAINAGE IS SITUATED WITHIN 5 METRES OF NEW OR EXISTING TREES THE PIPEWORK SHALL BE ENCASED IN CONCRETE TO REDUCE THE RISK OF ROOT INGRESS.
- CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300MM.
- ALL EXISTING DRAINAGE SHALL BE ASSUMED TO BE 'LIVE' AND SHALL BE MAINTAINED AT ALL TIMES DURING THE WORKS. EXISTING DRAINAGE SHALL BE RECONNECTED TO THE NEW DRAINAGE SYSTEM UNLESS PROVEN TO BE REDUNDANT FOR ABANDONMENT. ALL EXISTING DRAINAGE TO BE ABANDONED SHALL BE SEALED BY APPROPRIATE MEANS.
- UPON COMPLETION ALL NEW DRAINAGE INSTALLATION TOGETHER WITH ANY EXISTING DRAINAGE RETAINED SHALL BE JETTED AND CCTV SURVEYED UPON COMPLETION. CONTRACTOR TO ENSURE THAT THE DRAINAGE SYSTEM IS FULLY OPERATIONAL, FREE OF EXCESS DEBRIS/SILT AND ALL IDENTIFIED FAULTS RECTIFIED.

- LEGEND :**
- PROPOSED SURFACE WATER DRAINAGE
 - PROPOSED FOUL WATER DRAINAGE
 - EXISTING SURFACE WATER SEWER
 - EXISTING FOUL WATER SEWER
 - RAINWATER PIPE
 - CHANNEL DRAIN
 - FOUL DOWN PIPE
 - FOUL GULLY
 - FILTER DRAINS (SEE NOTES)
 - PERMEABLE PAVING (SEE NOTES)
 - DEVELOPMENT BOUNDARY

HEALTH & SAFETY :

- THE WORKS SHALL BE CARRIED OUT BY SPECIALIST COMPETENT AND EXPERIENCED CONTRACTORS. ALL OPERATIVES SHALL HAVE RECEIVED FULL AND APPROPRIATE TRAINING WITH APPROPRIATE QUALIFICATIONS FOR THE OPERATIONS THEY ARE REQUIRED TO UNDERTAKE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT HEALTH & SAFETY REGULATIONS.

SITE SPECIFIC DRAINAGE NOTES :

- ANY EXISTING DRAINAGE WITHIN THE DEVELOPMENT SITE TO REMAIN LIVE AND TO BE DIVERTED IF REQUIRED. EXISTING DRAINAGE LOCATION, SIZE AND DEPTHS TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORK.
- PROPOSED RAINWATER AND FOUL DOWN PIPE LOCATIONS TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS. DESIGN SUBJECT TO CHANGE ONCE CONFIRMED.
- FINISHED FLOOR LEVEL, EXTERNAL LEVELS AND SUBSEQUENT COVER LEVELS OF PROPOSED DRAINAGE NETWORK TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS. DESIGN SUBJECT TO CHANGE ONCE CONFIRMED.
- EXISTING FOUL AND SURFACE WATER SEWER LOCATION AND LEVELS / DEPTHS TO BE CONFIRMED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORK. DRAINAGE DESIGN SUBJECT TO CHANGE ONCE KNOWN.
- SURFACE AND FOUL WATER DISCHARGE SUBJECT TO YORKSHIRE WATER AND LOCAL AUTHORITY APPROVAL. NO DRAINAGE WORK TO COMMENCE UNTIL AGREEMENT AND APPROVAL NOTICE IS GIVEN.
- ALL FOUL WATER PIPES TO BE 1000 UNLESS SHOWN OTHERWISE.
- FOUL WATER DOWN PIPES TO HAVE INVERT LEVEL OF 425mm BELOW FINISHED FLOOR LEVEL, UNLESS STATED OTHERWISE.
- FOUL PIPES CAN BE LAID AT A GRADIENT OF 1 IN 80 IF SERVING AT LEAST 1 WC.
- ALL SURFACE WATER PIPES TO BE 1500 UNLESS SHOWN OTHERWISE.
- RAINWATER PIPES TO HAVE INVERT LEVEL OF 900mm BELOW FINISHED FLOOR LEVEL, UNLESS STATED OTHERWISE.
- MANUFACTURER TO CONFIRM SUITABLE COVER OVER CELLULAR UNITS IN PARKING AREA PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS. DESIGN SUBJECT TO CHANGE.
- NO PETROL INTERCEPTOR REQUIREMENT DUE TO SURFACE WATER RUN-OFF FROM PARKING BAYS DISCHARGE THROUGH PERMEABLE PAVING, AND ACCESS BEING LESS THAN 800m². THIS IS TO ADHERE TO KIRKLEES COUNCIL LFLFA COMMENTS 13/06/2024.

DRAINAGE SPECIFICATIONS :

- FOUL WATER PIPES TO BE POLYPIPE TO BS EN 1401-1 OR SIMILAR.
- SURFACE WATER PIPES TO BE POLYPIPE RIDGDRAIN OR SIMILAR.
- FLOW CONTROL BY HYDRO-BRAKE BY HYDRO-INTERNATIONAL.
- ATTENUATION TANK TO BE POLYPIPE POLYSTORM-R OR SIMILAR.
- PETROL INTERCEPTOR TO BE KLARGESTER BYPASS BS8903 OR SIMILAR.
- INSPECTION CHAMBERS TO BE POLYPIPE OR SIMILAR.
- MANHOLES BY FP MCCANN OR SIMILAR.
- FOUL GULLIES TO BE POLYPIPE 'MIDGULLY' OR SIMILAR.
- THRESHOLD AND CHANNEL DRAINS TO BE ACO 'DOORWAY' DRAIN AND ACO M1000 0.0 OR SIMILAR.

CONSTRUCTION DRAWING ISSUE

Issue No	Description	SR	Date
C03	CONSTRUCTION ISSUE	SR	14.10.24
C02	CONSTRUCTION ISSUE	MDS	16.09.24
C01	CONSTRUCTION ISSUE	MDS	06.09.24
P03	AMENDED TO SUIT LATEST ARCHITECT'S FLOOR PLANS	MDS	12.01.24
P02	AMENDED TO SUIT REVISED ARCHITECT'S SITE PLAN	MDS	10.10.23
P01	ISSUED FOR PLANNING	MDS	20.07.23
rev	amendments	by	date



Client: **ASH MARTIN CONSTRUCTION**

Project: **FREDRICK FINLAY - CARE HOME, OXFORD ROAD, DEWSBURY**

Title: **PROPOSED BELOW GROUND DRAINAGE LAYOUT**

Drawing Status:	Date Created:	Drawing Scale:
CONSTRUCTION	JULY '23	1:125
Project Number Originator Vol. Level Type Role Number	Rev:	
LE-161-CCS-01-00-DR-S-0200	C03	
Project Leader:	Drawn By:	Initial Review:
JB	MDS	YA

OXFORD ROAD

FOUL WATER OUTFALL PIPE TO 300mm DIA. YORKSHIRE WATER SURFACE WATER SEWER OXFORD ROAD. CONNECTION / DISCHARGE SUBJECT TO SECTION 106 AGREEMENT WITH YORKSHIRE WATER PRIOR TO COMMENCEMENT OF DRAINAGE WORK.
 MANHOLE / SEWER LOCATION, CONDITION AND DEPTH TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORK. DRAINAGE DESIGN SUBJECT TO CHANGE ONCE SEWER LEVEL / DEPTH IS KNOWN.

SURFACE WATER OUTFALL PIPE TO 500mm DIA. YORKSHIRE WATER SURFACE WATER SEWER OXFORD ROAD. CONNECTION / DISCHARGE SUBJECT TO LOCAL AUTHORITY APPROVAL AND SECTION 106 AGREEMENT WITH YORKSHIRE WATER PRIOR TO COMMENCEMENT OF DRAINAGE WORK.
 MANHOLE / SEWER LOCATION, CONDITION AND DEPTH TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORK.