N

VIEWPARK WALK

DRIVE

EX LIU 702
CL:61.31
IL:58.88

PFW34
CL:61.372
IL:59.067

PSW63A
CL:61.651
IL:60.959

PFW35
CL:61.657
IL:59.127

PFW36
CL:61.672
IL:59.231

PSW1
CL:61.606
IL:61.10

FFL 61.700

PFW37A
CL:61.50
IL:60.75

PFW37B
CL:61.477
IL:60.627

PFW37C
CL:61.483
IL:60.508

PFW37D
CL:61.484
IL:60.475

PSW62
CL:61.509
IL:60.920

PSW63B
CL:61.519
IL:60.769

PFW37
CL:61.477
IL:59.367

PSW5
CL:60.867
IL:60.234

PFW3
CL:60.592
IL:60.00

PSW64
CL:60.581
IL:60.00

PFW4
CL:60.922
IL:59.506

FFL 60.750

PSW65
CL:60.527
IL:60.047

PSW6
CL:60.659
IL:59.863

PFW2
CL:60.528
IL:60.00

PFW38
CL:60.704
IL:59.60

PSW67
CL:60.134
IL:59.70

PFW12
CL:60.157
IL:59.55

PFW13
CL:60.107
IL:59.341

PSW4
CL:60.225
IL:59.528

PF15
CL:60.106
IL:59.265

FFL 60.300

PF14
CL:59.759
IL:58.90

PSW7
CL:60.471
IL:59.405

PSW3
CL:60
IL:59.970

PFW5
CL:59.991
IL:58.952

PFW6C
CL:59.940
IL:59.090

PFW6B
CL:60.212
IL:59.251

PSW15A
CL:59.991
IL:59.644

PSW15B
CL:59.974
IL:59.62

PSW8
CL:60.150
IL:59.882

FFL 60.150

PFW42
CL:59.918
IL:58.547

PFW43
CL:59.862
IL:58.209

PSW9
CL:60.033
IL:59.026

PFW6A
CL:60.093
IL:59.40

PSW16
CL:59.920
IL:59.40

PSW10
CL:59.634
IL:58.554

PFW44
CL:59.606
IL:57.709

6FFL 59.700

PFW57
CL:60.676
IL:58.95

PSW17
CL:59.682
IL:58.45

PSW11
CL:59.200
IL:58.485

PFW45
CL:59.145
IL:57.899

PFW58
CL:59.242
IL:58.775

65/66

PSW18
CL:59.815
IL:58.641

FFL 59.250

PSW12
CL:59.825
IL:58.417

PSW1
CL:59.660
IL:58.221

67/68

PFW59
CL:59.240
IL:58.596

PFW47
CL:59.022
IL:57.844

PFW60
CL:59.341
IL:58.412

PSW66
CL:59.350
IL:58.412

Manhole
CL:59.04
IL:57.75

PFW47
CL:59.022
IL:58.731

Manhole (14)
CL:59.035
IL:57.684

FFL 59.650

PS6
CL:59.583
IL:59.012

PS39
CL:58.834
IL:56.551

Manhole (15)
CL:59.593
IL:59.05

MH05
CL:59.283
IL:56.590

EX RG

Open Space Retained

STARMOOR DRIVE

Open Space Retained

Communal Amenity Space

Bins / Cycles

New road

blank gable

HEATHERDALE DRIVE

NOTE.
HOUSE FOUNDATIONS DETAILED TO EXTEND BENEATH ZONE OF INFLUENCE IF BOX CULVERT EXCAVATED FOR REPLACEMENT / REPAIRS

5.0m

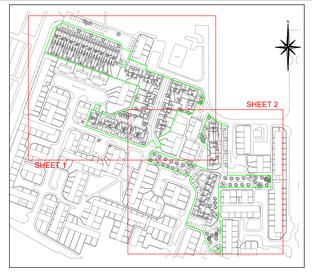
ACCESS MANHOLES

PS39
CL:58.834
IL:56.551
FLOW CONTROL MH
Q=2.6l/s @ 1.8m DESIGN HEAD
ORIFICE = 67mm
REF: SHE:0067-2600-1800-2600

A HYDRO INTERNATIONAL MESH GUARD TO BE PROVIDED OVER HYDRO-BRAKE TO PREVENT BLOCKAGES.

SURFACE WATER ATTENUATION @ IL:56.588
PROVIDE 2.4m x 1.5m BOX CULVERT x 13m LONG (BOX CULVERT SHALL BE HAPAS APPROVED)
(TOTAL MINIMUM VOLUME 46.8m³)
SYSTEM TO BE VENTED & INSTALLED TO MANUFACTURERS DETAILS.
MINIMUM COVER 600mm.

Retained



SITE PLAN (1:2500)

GENERAL NOTES

DO NOT SCALE OFF THIS DRAWING

THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.

ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS, STATUTORY HEALTH AND SAFETY/C.D.M. REGULATIONS, RELEVANT CODES OF PRACTICE AND THE CURRENT EDITION OF THE BUILDING REGULATIONS.

FOR FINAL SETTING OUT INFORMATION RELATING TO GRID LINES AND WALL POSITIONS REFER TO THE ARCHITECT'S DRAWINGS.

ALL FLOOR LEVELS TO BE CONFIRMED BY ARCHITECT PRIOR TO CONSTRUCTION

ALL COVER LEVELS TO BE CONFIRMED BY ARCHITECT PRIOR TO CONSTRUCTION

ALL DRAINAGE PENETRATING THOUGH FLOOR SLABS AND RAINWATER PIPE LOCATIONS TAKEN FROM ARCHITECTS DRAWINGS. ARCHITECT TO CONFIRM LOCATIONS PRIOR TO CONSTRUCTION.

EXISTING SERVICES

ROAD SIGNS AND LAMP COLUMNS ON THE SITE PERIPHERY TO BE RE-SITED IF REQUIRED BY, AND TO THE APPROVAL OF, THE LOCAL AUTHORITY.

CONTRACTOR TO SATISFY THEMSELVES THAT EXISTING AND PROPOSED SERVICES DO NOT CLASH WITH PROPOSED DRAINAGE

KNOWN EXISTING SERVICES ARE INDICATED ON THE PLAN WHERE THEY CROSS THE PROPOSED DRAINAGE. THE EXACT TYPE AND LOCATION SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO START OF WORKS TO ENSURE THAT PROPOSED DRAINAGE LEVELS DO NOT INTERFERE WITH SERVICES. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER IMMEDIATELY.

THE CONTRACTOR SHALL CHECK ALL EXISTING COVER / INVERT LEVELS AND PIPE / SEWER SIZES ON SITE PRIOR TO START OF WORKS TO ENSURE PROPOSED DRAINAGE CAN BE CONSTRUCTED AS INDICATED ON THE DRAWING. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

PROPOSED DRAINAGE

OUTSIDE EDGE OF ADOPTED SEWER SHALL NOT ENCROACH WITHIN 1M OF KERB FACE.
OUTSIDE EDGE OF ADOPTED MANHOLES SHALL NOT ENCROACH WITHIN 0.5M OF KERB FACE.

ALL DRAINAGE IN HIGHWAYS/CAR PARKING AREAS/DRIVEWAYS LESS THAN 1.2M DEEP TO BE CONCRETE ENCASED.

ALL PPIC'S GREATER THAN 1.2M DEEP TO HAVE REDUCED ACCESS COVERS TO PREVENT MAN ENTRY.

SURFACE WATER DRAINAGE:
ALL PRIVATE SURFACE WATER DRAINAGE TO BE 100MM Ø AT 1:80 GRADIENT UNLESS NOTED OTHERWISE.
ALLOWANCE TO BE MADE FOR DRIVEWAY GULLIES AND ASSOCIATED DRAIN RUNS WHERE APPLICABLE

FOUL WATER / COMBINED DRAINAGE:
ALL UNDERSLAB FOUL WATER DRAINAGE TO BE 100MM Ø AT 1:40 GRADIENT UNLESS NOTED OTHERWISE ALL OTHER PRIVATE FOUL WATER DRAINAGE TO BE 100MM Ø AT 1:80 GRADIENT UNLESS NOTED OTHERWISE
INTERNAL VENTING OF DRAINAGE SYSTEM BY OTHERS.
ALL INTERNAL SP/SVP POSITIONS TO BE CONFIRMED BY ARCHITECT PRIOR TO CONSTRUCTION OF GROUND FLOOR SLAB

ATTENUATION NOTE

THE ENGINEER SHALL BE PROVIDED WITH A COPY OF THE DESIGN AND DRAWINGS BY THE TANK MANUFACTURER PRIOR TO THE CONTRACTOR ORDERING OR INSTALLING THE TANK TO ALLOW A REVIEW OF THE DETAILS.

PLASTIC TANKS SHALL ONLY BE INSTALLED IN PRIVATE AREAS AND NOT IMMEDIATELY ADJACENT OR WITHIN THE INFLUENCE ZONE OF A PUBLIC HIGHWAY.

WHERE TANKS ARE PROVIDED UNDER, IMMEDIATELY ADJACENT TO OR WITHIN THE INFLUENCE OF A PUBLIC HIGHWAY THEN THE TANK PROVIDED SHALL BE HAPAS APPROVED (HIGHWAY AUTHORITY PRODUCT APPROVAL SCHEME) THE TANK DESIGN AND DETAILS SHALL BE SUBMITTED TO THE ADOPTING AUTHORITY FOR THEIR APPROVAL IT IS LIKELY THAT A CONCRETE TANK WILL BE REQUIRED.

WHERE TANKS REQUIRE ADOPTING HIGHWAY AUTHORITY APPROVALS NO TANKS SHALL BE ORDERED OR INSTALLED UNTIL FULL TECHNICAL APPROVAL HAS BEEN PROVIDED BY THE ADOPTING HIGHWAY AUTHORITY. THE CONTRACTOR SHALL ALLOW TIME WITHIN THEIR CONSTRUCTION PROGRAMME TO OBTAIN THE NECESSARY TECHNICAL APPROVALS FROM THE ADOPTING AUTHORITY.

ATTENUATION PRODUCT SPECIFICATION

A PRODUCT WITH A VOID RATIO OF 95% IS ASSUMED IN THE DESIGN OF THE ATTENUATION TANK. IF A DIFFERENT VOID RATIO IS USED THEN THE ENGINEER SHALL BE CONSULTED SO THAT A DESIGN CHECK CAN BE CARRIED OUT.

TANKS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND DETAILS.

NO TEMPORARY MOUNDING OF EARTH OR OTHER CONSTRUCTION MATERIALS SHALL BE PLACED OVER OR WITHIN INFLUENCE ZONE OF THE TANK ONCE INSTALLED.

CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WORKS TO ENSURE STABILITY OF ALL EXCAVATIONS REQUIRED TO INSTALL THE TANK SYSTEM.

ATTENUATION TANK DESIGN LOADING REQUIREMENTS.

THE FOLLOWING DESIGN LOADS SHALL BE ALLOWED IN THE DESIGN OF THE TANK.

A MINIMUM LIVE LOADING OF 10kN/m² SHALL BE ALLOWED IN THE TANK DESIGN.

A MINIMUM BACK FILL LOADING OF 25kN/m2 SHALL BE ASSUMED IN THE TANK DESIGN.

A MINIMUM LATERAL COMPRESSIVE STRENGTH OF 33kN/m2 SHALL BE ALLOWED IN THE TANK DESIGN.

CONSTRUCTION PLANT SHALL NOT BE ALLOWED TO CROSS OVER OR CROSS WITHIN THE INFLUENCE ZONE OF THE TANK UNLESS SPECIFICALLY DESIGNED FOR BY THE CONTRACTOR / TANK DESIGNER.

NO CRANES SHALL BE ALLOWED TO SET UP OVER OR WITHIN THE INFLUENCE ZONE OF THE TANK UNDER ANY CIRCUMSTANCE.

GROUND WATER.

NO GROUND WATER HAS ASSUMED IN THE DESIGN OF THE TANK.

IF GROUND WATER IS ENCOUNTERED DURING THE INSTALLATION OF THE TANK ALL WORKS SHALL STOP AND THE ENGINEER SHALL BE INFORMED AS THE TANK CONSTRUCTION DETAILS WILL REQUIRE TO BE REVIEWED. CONSTRUCTION DETAILS MAY CHANGE.

WHERE GROUND WATER IS IDENTIFIED ON SITE A FLOATATION CALCULATION WILL BE REQUIRED TO BE CARRIED OUT ON THE TANK AND WILL LIKELY AFFECT THE INSTALLATION DETAILS / REQUIREMENTS OF THE TANK.

BUILDING FOUNDATIONS.

TANKS SHALL GENERALLY BE LOCATED NO CLOSER THAN 3m TO THE NEAREST POINT OF A BUILDING OR OTHER STRUCTURE.
TANKS THAT ARE LOCATED CLOSE TO BUILDINGS OR OTHER STRUCTURES MAY INFLUENCE THE CONSTRUCTION OF THE FOUNDATIONS. THIS WILL RESULT IN THE FOUNDATIONS BEING EXCAVATED INTO ACCEPTABLE BEARING STRATA DEEPER THAN WOULD NORMALLY BE REQUIRED.

WHERE SLOPING GROUND CONDITIONS EXIST ON SITE THE ENGINEER SHALL BE CONTACTED FOR FURTHER ADVICE AND CONFIRMATION OF FOUNDATION DEPTHS.

DRAINAGE KEY

- NEW SURFACE WATER PRIVATE DRAIN
- NEW SURFACE WATER SEWER
- EX SW > EXISTING SURFACE WATER DRAIN / SEWER
- NEW FOUL WATER PRIVATE DRAIN
- NEW FOUL WATER SEWER
- EX FW > EXISTING FOUL WATER DRAIN / SEWER
- EX COM > EXISTING COMBINED DRAIN / SEWER
- EXTG DRAINAGE TO BE ABANDONED TO U.U. / L.A. APPROVAL
- NEW MANHOLE - REFER TO PLAN FOR SIZE
- NEW POLYPROPYLENE INSPECTION CHAMBER (PPIC)
- NEW MINI ACCESS CHAMBER
- EXTG MH CL: XXX IL: XXX — EXISTING MANHOLE / ACCESS CHAMBER
- RWP ∘ RAINWATER PIPE LOCATION
- S ∘ SOIL PIPE LOCATION
- BIG ▫ BACK INLET GULLEY
- EX RG ▫ EXISTING ROAD GULLEY
- RG ▫ NEW ROAD GULLEY
- DG ▫ NEW DRIVEWAY GULLEY
- SITE BOUNDARY
- SURFACE WATER ATTENTION
- PERMEABLE CONSTRUCTION WITH DIFFUSER BOX OUTLET
- X EASEMENT

NOTE

FOR EXTENT AND DETAILS OF PERMEABLE PAVING REFER TO SUTCLIFFE DRAWING 33716-SUT-ZZ-XX-DR-C-6210-6211

FOR SECTIONS THROUGH CELLULAR ATTENUATION REFER TO SUTCLIFFE DRAWINGS '33716-SUT-ZZ-XX-DR-C-6205 - ATTENUATION TANK DETAILS'

NOTE: ALL RWP/SP/BIG POSITIONS TO BE CONFIRMED BY ARCHITECT PRIOR TO START OF WORKS ON SITE

DESIGN CONTINGENCY

FOR COST PURPOSES THE CONTRACTOR IS TO INCLUDE THE FOLLOWING CONTINGENCY (% OF PRIMARY CIVILS DESIGN COST) AT THE RELEVANT PROJECT STATUS INDICATED ON THE DRAWING.

S2 - CONCEPT DESIGN - 25%
S3 - SPATIAL COORDINATION - 15%
S4 - TECHNICAL DESIGN - 10%
A5 - PRODUCT INFORMATION - 5%

SCALE BAR 1:200
0 1 2 3 4 5 10 15 20

Rev	Description	Date	By	Chkd
P01	PRELIMINARY ISSUE	06.05.26	MG	DS

Drawing Status
S4 TECHNICAL DESIGN

Sutcliffe — Structural & Civil Engineering, Geotechnical & Environmental Investigations, Building Surveying, Pre Planning Services
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www.sutcliffe.co.uk

Client
MOSSCARE ST.VINCENTS HOUSING

Project
ALDERFORD PARADE
CHEETHAM HILL
MANCHESTER

Drawing Title
SUDS DRAINAGE LAYOUT INDICATING EASEMENTS
SHEET 2 OF 2

Date	Drawn By	Checked By
MAY '26	MG	DS

Scale at A0	Project Number
1:200	33716

Sheet Number	Revision
33716-SUT-ZZ-XX-DR-C-6221	P01