

KEY:

PLANNING APPLICATION BOUNDARY

EXTENT OF WORKS BOUNDARY

PHASE 1 BOUNDARY

PHASE 2 BOUNDARY

EXISTING COMBINED DRAINAGE

EXISTING FOUL DRAINAGE

EXISTING SURFACE WATER DRAINAGE

PROPOSED COMBINED DRAINAGE

PROPOSED FOUL DRAINAGE

PROPOSED SURFACE WATER DRAINAGE

PROPOSED FLOW CONTROL MANHOLE

PROPOSED OVERFLOW PIPE

PROPOSED SURFACE WATER DIVERSION

PROPOSED 1500 LAND DRAIN (WRAPPED IN GEOTEXTILE) LAID 500mm DEEP IN SOFT LANDSCAPE AREAS

PROPOSED PERFORATED MUGA DRAINAGE

PROPOSED CELLULAR ATTENUATION TANK

PROPOSED FOUNDATION

*RESIDUAL HAZARD REGISTER (RELATES TO CIVIL/STRUCTURAL MATTERS ONLY)
MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 080355-CUR-ZZ-XX-HA-X-00001.
HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS.*

HAZARD REF No.	ITEM (FEATURE, ELEMENT OR ACTIVITY)	RESIDUAL HAZARD
301	EXISTING LIVE SERVICES	EXISTING LIVE (SERVICES SITEWIDE)
401	PROXIMITY TO LIVE BUILDINGS	UNDERMINING OR DAMAGE TO ADJACENT FOUNDATIONS DAMAGE TO EXISTING BUILDINGS
801	PROXIMITY TO PEDESTRIAN ROUTES	CONSTRUCTION ACTIVITIES IN CLOSE PROXIMITY TO THE LIVE EXISTING SCHOOL

DRAWING IS BASED ON:

ARCHITECT'S PLANS

- SRP1019-JMA-01-00-DR-A-2301-D2-P04 SLAB EDGE SETTING OUT - GROUND LEVEL
- 6945-JMA-01-RL-DR-A-0001-P09 Proposed Roof Plan

LANDSCAPE ARCHITECTS PLANS

- NEW-DEP-ZZ-00-DR-L-0001 REV P12 PROPOSED SITE LAYOUT

FOUNDATION PLANS

- SRP1019-CUR-ZZ-FN-DR-S-1601 REV P7 FOUNDATION GA

M&E INFORMATION

- DISCHARGE RATES RECEIVED 21.07.22
- SRP1019-WSP-XX-00-DR-P-503001 P01

SURVEY INFORMATION

- GM11641-004 REV A UTILITIES SURVEY MAY 2021
- CCTV SURVEY 2022

SITE INVESTIGATION

- REF PN092001 BY GEOTECHNICS LIMITED MAY 2009

DESIGN RISKS/ INFORMATION REQUIRED

- FINAL POPUP LOCATION AND DISCHARGE UNITS UNITS REQUIRED FOR CO-ORDINATION
- FINAL NUMBER & LOCATIONS OF RWPs TO BE CONFIRMED - ADDITIONAL DRAINAGE MAY BE REQUIRED
- CCTV REPORT FOR UU MANHOLE WITHIN STREET
- ADDITIONAL ATTENUATION MAY BE REQUIRED DEPENDS ON UU SURCHARGE LEVEL AND OUTCOME OF THE PUBLIC SEWER SEWER
- PROPOSED SERVICES PLANS ARE REQUIRED FOR CO-ORDINATION.

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING SRP1019-CUR-XX-XX-DR-C-9224

SURFACE WATER DRAINAGE

LEVELS INDICATE THAT PUMPING WILL NOT BE REQUIRED GRAVITY CONNECTION TO PRIVATE DRAINAGE WITHIN SITE.

PROPOSALS WILL BE SUBJECT TO AGREEMENT WITH THE RELEVANT AUTHORITIES.

IT IS RECOMMENDED THAT SUSTAINABLE METHODS OF ATTENUATION ARE IMPLEMENTED WHERE POSSIBLE.

PROPOSED FLOW RATES:

ALLOWABLE DISCHARGE RATES HAVE BEEN CALCULATED BASED ON BROWNFIELD RUNOFF. WITH FLOWS RESTRICTED TO 50% OF EXISTING FOR CONTRIBUTING IMPERMEABLE AREAS.

- 1-YEAR 22.4 l/s
- 30-YEAR 55.4 l/s
- 100-YEAR 60.4 l/s

UU HAS CONFIRMED IN EMAIL 08.08.22 PROPOSED RATES AREA ACCEPTABLE

SURCHARGE LEVELS USED FOR CALCULATIONS: 131.083 FOR 1:1 YEAR STORM (AS STATED BY UU), 133.020 FOR 1:30 & 1:100 YEAR STORMS. THIS IS BASED OFF THE LOWEST GULLY LEVEL ON SITE, AS UU PROVIDED LEVEL IS ABOVE SITE LEVELS.

FINAL SURCHARGE LEVELS TO BE AGREED WITH UU FOLLOWING PUBLIC SEWER SURVEY IN ROAD

ATTENUATION REQUIREMENTS:

ATTENUATION IS PROVIDED BY CELLULAR ATTENUATION (TOTAL 718m³) ATTENUATION TANK SUBJECT TO FINAL SURCHARGE LEVEL WITHIN PUBLIC SEWER

SUSTAINABLE DRAINAGE

WHICH PROVIDES SUFFICIENT WATER QUALITY TREATMENT: SOFT LANDSCAPE WITH LAND DRAINS

AGREEMENT OF SUSTAINABLE DRAINAGE SYSTEMS IS TO BE AGREED WITH THE LLFA.

FOUL WATER DESIGN

FW WILL DISCHARGE BY GRAVITY TO EXISTING PRIVATE MANHOLE WITHIN SITE.

FW PEAK FLOW RATE ESTIMATED AT 8.5 l/s BASED ON 147 DISCHARGE UNITS PROVIDED BY M&E ENGINEER

DISCHARGE FROM SITE HAS BEEN AGREED WITH UU UNDER PREDEVELOPMENT ENQUIRY

THE PROPOSED COMBINED DRAINAGE FORMS THE TEMPORARY DIVERSION FOR PART OF THE EXISTING SITE. THE FINAL COMBINED DRAINAGE INCLUDES FOR AN UNRESTRICTED FLOW FROM THE ASPHALT SPORTS AREA (OUTSIDE PLANNING BOUNDARY). THE DRAINAGE HAS BEEN DESIGNED TO INCREASE THE CAPACITY COMPARED TO THE EXISTING DRAINAGE.

THIS PROPOSAL IS SUBJECT TO AGREEMENT WITH THE LLFA. IF THIS AREA IS REQUIRED TO BE REDIRECTED INTO THE PROPOSED SURFACE WATER DRAINAGE, ADDITIONAL ATTENUATION WILL BE REQUIRED. UU HAS AGREED IN PRINCIPLE THAT AREA C DIVERT DRAINAGE WILL DISCHARGE AS EXISTING WITHOUT RESTRICTION EMAIL FROM 08.08.22

P06	ISSUED TO DISCHARGE CONDITION, FOUNDATION UPDATED	15.12.22	MW	MW
P05	STAGE 4 ISSUE	26.08.22	MW	MW
P04	ISSUED FOR PLANNING - UPDATED LANDSCAPE PLAN	26.07.22	ATL	ATL
P03	ISSUED FOR PLANNING - UPDATED BOUNDARIES	25/05/22	TH	MW
P02	ISSUED FOR PLANNING	20/05/22	ATL	MW
Rev:	Description:	Date:	By:	Chkd:

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Status:

STAGE 4

Project:

NEWHOUSE ACADEMY

Orig Title:

PROPOSED DRAINAGE LAYOUT
SHEET 1 OF 2

Drawn By

ATL

Designed By

ATL

Checked By

MW

Date

08/04/22

Scales @ A1

1:250

Project No - Originator - Function - Spatial - Form - Discipline - Number

SPR1019 - CUR - XX - 00 - DR - C - 9212

P06

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