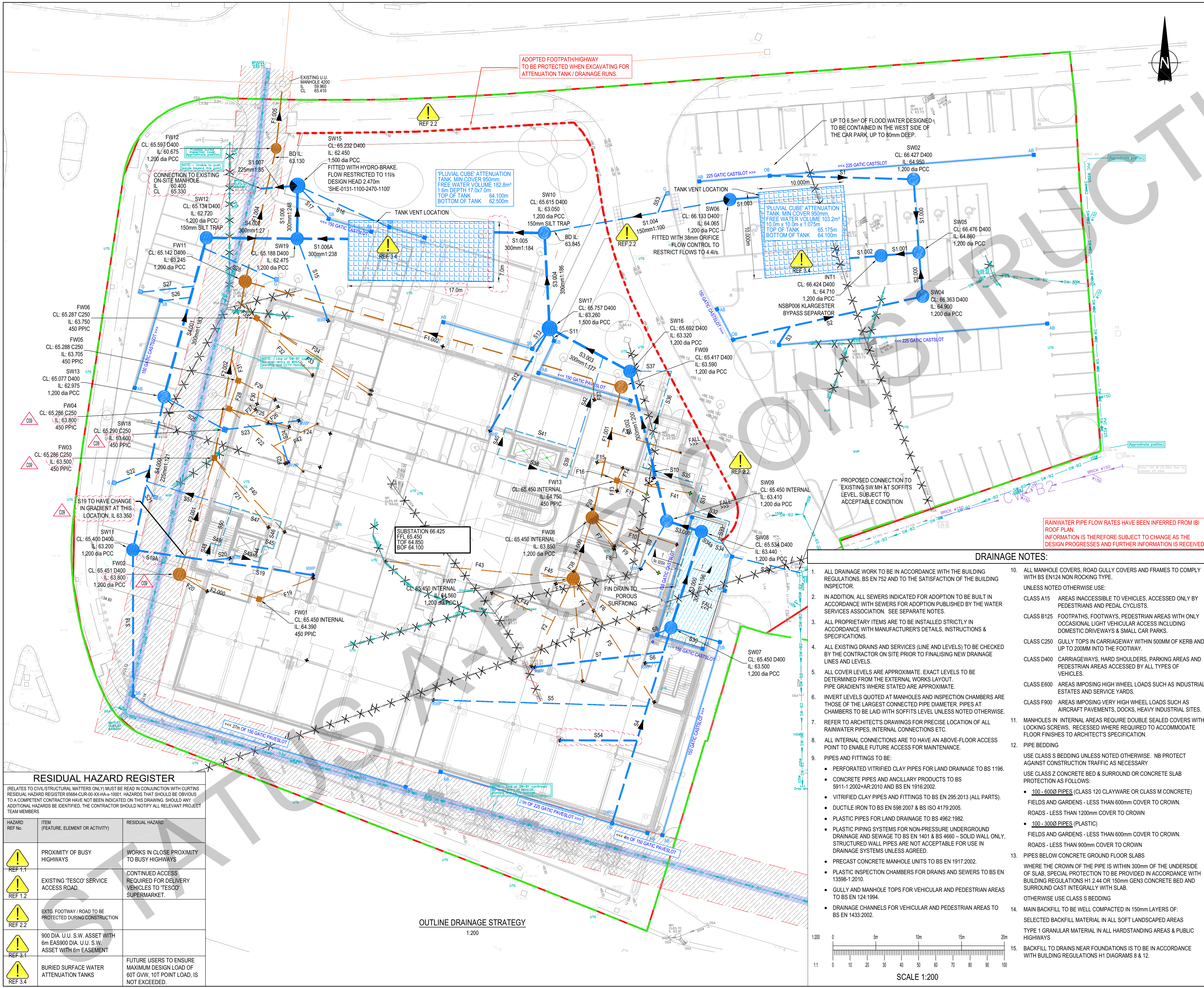




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- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY.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

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LEGEND:

	EXISTING PRIVATE FOUL WATER DRAIN
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	EXISTING (PRIVATE) FOUL WATER DRAIN TO BE ABANDONED
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	GEO-CELLULAR STORAGE TANK

RAINWATER PIPE FLOW RATES HAVE BEEN INFERRED FROM BI ROOF PLAN. INFORMATION IS THEREFORE SUBJECT TO CHANGE AS THE DESIGN PROGRESSES AND FURTHER INFORMATION IS RECEIVED.

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OUTLINE DRAINAGE STRATEGY

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1:200

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- ALL INTERNAL CONNECTIONS ARE TO HAVE AN ABOVE-FLOOR ACCESS POINT TO ENABLE FUTURE ACCESS FOR MAINTENANCE.
- PIPES AND FITTINGS TO BE:
 - PERFORATED VITRIFIED CLAY PIPES FOR LAND DRAINAGE TO BS 1196.
 - CONCRETE PIPES AND ANCILLARY PRODUCTS TO BS 5911-1:2002+AR:2010 AND BS EN 1916:2002.
 - VITRIFIED CLAY PIPES AND FITTINGS TO BS EN 295:2013 (ALL PARTS).
 - DUCTILE IRON TO BS EN 598:2007 & BS ISO 4179:2005.
 - PLASTIC PIPES FOR LAND DRAINAGE TO BS 4962:1982.
 - PLASTIC PIPING SYSTEMS FOR NON-PRESSURE UNDERGROUND DRAINAGE AND SEWAGE TO BS EN 1401 & BS 4660 - SOLID WALL ONLY. STRUCTURED WALL PIPES ARE NOT ACCEPTABLE FOR USE IN DRAINAGE SYSTEMS UNLESS AGREED.
 - PRECAST CONCRETE MANHOLE UNITS TO BS EN 1917:2002.
 - PLASTIC INSPECTION CHAMBERS FOR DRAINS AND SEWERS TO BS EN 13598-1:2010.
 - GULLY AND MANHOLE TOPS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 124:1994.
 - DRAINAGE CHANNELS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 1433:2002.
- ALL MANHOLE COVERS, ROAD GULLY COVERS AND FRAMES TO COMPLY WITH BS EN 124 NON ROCKING TYPE.
- UNLESS NOTED OTHERWISE USE:
 - CLASS A15 AREAS INACCESSIBLE TO VEHICLES, ACCESSED ONLY BY PEDESTRIANS AND PEDAL CYCLISTS.
 - CLASS B125 FOOTPATHS, FOOTWAYS, PEDESTRIAN AREAS WITH ONLY OCCASIONAL LIGHT VEHICLE ACCESS INCLUDING DOMESTIC DRIVEWAYS & SMALL CAR PARKS.
 - CLASS C250 GULLY TOPS IN CARRIAGEWAY WITHIN 500MM OF KERB AND UP TO 200MM INTO THE FOOTWAY.
 - CLASS D400 CARRIAGEWAYS, HARD SHOULDERS, PARKING AREAS AND PEDESTRIAN AREAS ACCESSED BY ALL TYPES OF VEHICLES.
 - CLASS E600 AREAS IMPOSING HIGH WHEEL LOADS SUCH AS INDUSTRIAL ESTATES AND SERVICE YARDS.
 - CLASS F900 AREAS IMPOSING VERY HIGH WHEEL LOADS SUCH AS AIRCRAFT PAVEMENTS, DOCKS, HEAVY INDUSTRIAL SITES.
- MANHOLES IN INTERNAL AREAS REQUIRE DOUBLE SEALED COVERS WITH LOCKING SCREWS, RECESSED WHERE REQUIRED TO ACCOMMODATE FLOOR FINISHES TO ARCHITECT'S SPECIFICATION.
- PIPE BEDDING
 - USE CLASS S BEDDING UNLESS NOTED OTHERWISE. NB PROTECT AGAINST CONSTRUCTION TRAFFIC AS NECESSARY
 - USE CLASS Z CONCRETE BED & SURROUND OR CONCRETE SLAB PROTECTION AS FOLLOWS:
 - 100 - 600mm PIPES (CLASS 120 CLAYWARE OR CLASS M CONCRETE) FIELDS AND GARDENS - LESS THAN 600mm COVER TO CROWN. ROADS - LESS THAN 1200mm COVER TO CROWN
 - 100 - 300mm PIPES (PLASTIC) FIELDS AND GARDENS - LESS THAN 600mm COVER TO CROWN. ROADS - LESS THAN 900mm COVER TO CROWN
- PIPES BELOW CONCRETE GROUND FLOOR SLABS
 - WHERE THE CROWN OF THE PIPE IS WITHIN 300mm OF THE UNDERSIDE OF SLAB, SPECIAL PROTECTION TO BE PROVIDED IN ACCORDANCE WITH BUILDING REGULATIONS H1 2.44 OR 150mm GEN3 CONCRETE BED AND SURROUND CAST INTEGRALLY WITH SLAB.
 - OTHERWISE USE CLASS S BEDDING
- MAIN BACKFILL TO BE WELL COMPACTED IN 150mm LAYERS OF: SELECTED BACKFILL MATERIAL IN ALL SOFT LANDSCAPED AREAS TYPE 1 GRANULAR MATERIAL IN ALL HARDSTANDING AREAS & PUBLIC HIGHWAYS
- BACKFILL TO DRAINS NEAR FOUNDATIONS IS TO BE IN ACCORDANCE WITH BUILDING REGULATIONS H1 DIAGRAMS 8 & 12.

RESIDUAL HAZARD REGISTER

(RELATES TO CIVIL/STRUCTURAL MATTERS ONLY) MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 6584-CUR-00-XX-HA-v-10001. 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
REF 1.1	PROXIMITY OF BUSY HIGHWAYS	WORKS IN CLOSE PROXIMITY TO BUSY HIGHWAYS
REF 1.2	EXISTING 'TESCO' SERVICE ACCESS ROAD	CONTINUED ACCESS REQUIRED FOR DELIVERY VEHICLES TO 'TESCO' SUPERMARKET.
REF 2.2	EXTG. FOOTWAY / ROAD TO BE PROTECTED DURING CONSTRUCTION	
REF 3.1	900 DIA. U.U. S.W. ASSET WITH 6m EAS900 DIA. U.U. S.W. ASSET WITH 6m EASEMENT	
REF 3.4	BURIED SURFACE WATER ATTENUATION TANKS	FUTURE USERS TO ENSURE MAXIMUM DESIGN LOAD OF 60T GVW, 10T POINT LOAD, IS NOT EXCEEDED.

OUTLINE DRAINAGE STRATEGY

1:200

GENERAL NOTES:

ADOPTED FOOTPATH/HIGHWAY TO BE PROTECTED WHEN EXCAVATING FOR ATTENUATION TANK / DRAINAGE RUNS.

REFERENCE DRAWINGS:

TOPOGRAPHICAL SURVEY

- SURVEY & ENGINEERING PROJECTS LTD 'UTILITY SURVEY OF LAND AT: GORTON COMMUNITY HUB, GARRETT WAY, MANCHESTER, M18 8LD. DRAWING REFERENCE S17260-T
- UNITED UTILITIES PUBLIC SEWER RECORDS (03/01/2019).
- ARCHITECT'S LAYOUT DRAWINGS INDICATING SANITARY LOCATIONS & DRAINAGE LOCATIONS (22/03/2019).

LEGEND:

	EXISTING PRIVATE FOUL WATER DRAIN
	EXISTING PRIVATE SURFACE WATER DRAIN
	EXISTING (PRIVATE) FOUL WATER DRAIN TO BE ABANDONED
	EXISTING (PRIVATE) SURFACE WATER DRAIN TO BE ABANDONED
	FOUL WATER DRAINAGE
	FW INSPECTION CHAMBER
	FIN DRAIN (PERFORATED PIPE)
	SOIL PIPE/SHOWER GULLY
	SURFACE WATER DRAINAGE
	LINEAR DRAINAGE CHANNEL
	AB = ACCESS BOX
	OB = OUTLET BOX
	SB = SUMP BOX
	ROAD GULLY
	PROPOSED FLOW CONTROL
	SITE BOUNDARY
	EXISTING 6m EASEMENT FOR UNITED UTILITIES APPARATUS
	PERMEABLE PAVING EXTENTS
	GEO-CELLULAR STORAGE TANK

RAINWATER PIPE FLOW RATES HAVE BEEN INFERRED FROM BI ROOF PLAN. INFORMATION IS THEREFORE SUBJECT TO CHANGE AS THE DESIGN PROGRESSES AND FURTHER INFORMATION IS RECEIVED.

DRAINAGE NOTES:

- ALL DRAINAGE WORK