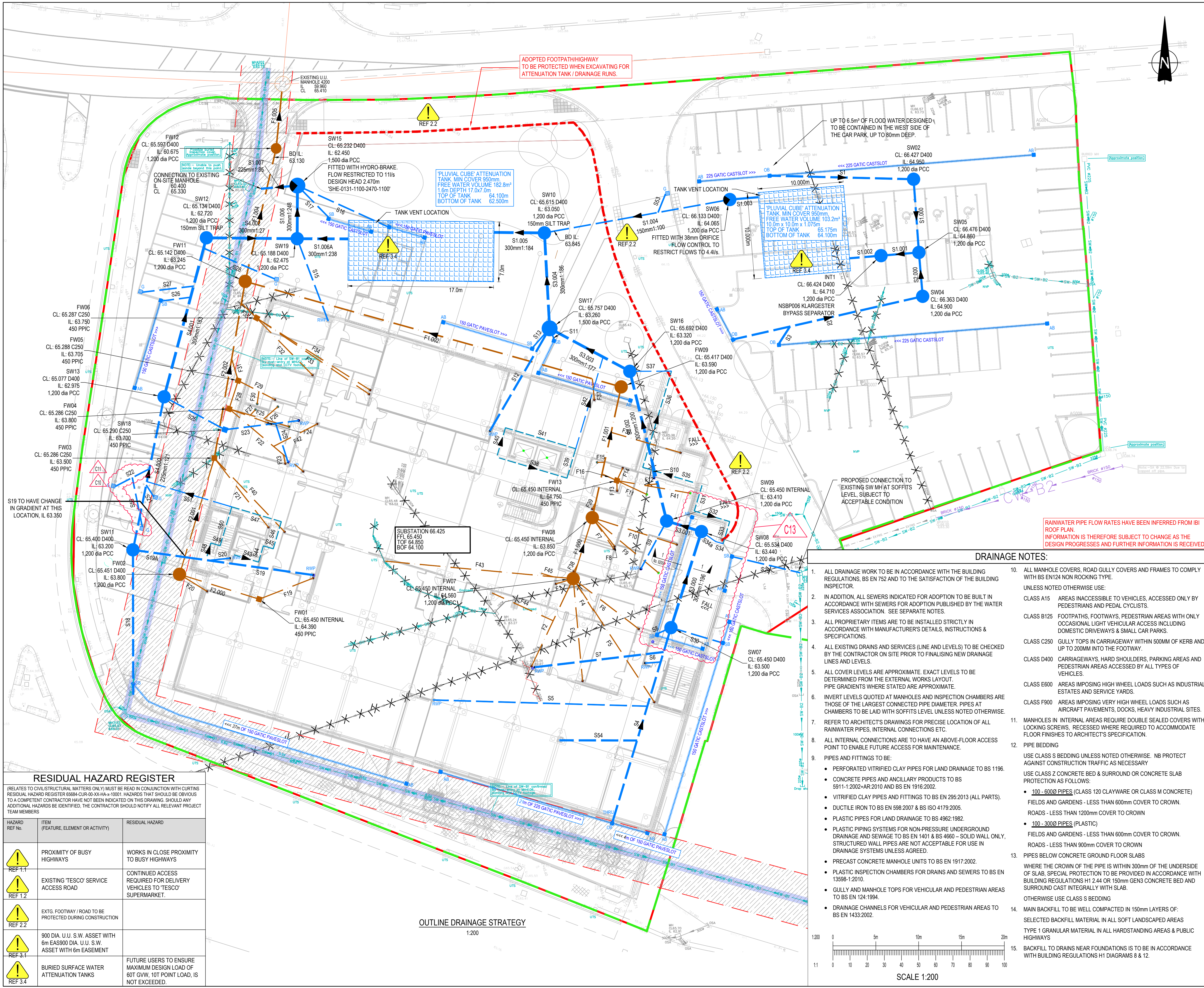




GENERAL NOTES:

- 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.

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
- GEO-CELLULAR STORAGE TANK

C13	SERVICE YARD PERMEABLE PAVING REMOVED. FIN DRAIN REMOVED.	02/09/22	TL	PT
C12	ADJUSTED LINEAR DRAINS AS CLOUDED.	20/07/22	AMB	AMB
C11	ALTERED CYCLE STORE GULLIES.	27/06/22	AMB	AMB
C10	REVISED LANDSCAPE PLAN REC. 27/05/22, AND ALTERED CYCLE SHELTER GULLY LOCATION.	17/06/22	AMB	AMB
C09	RESOLVED 2 DRAINAGE CONFLICTS AS CLOUDED.	02/02/22	AMB	PT
C08	AMENDED TANK 02 LENGTH FROM 18 TO 17m. ADDED LEADER ARROW TO SW OUTFALL NOTE.	04/01/22	AMB	PT
C07	OMITTED FW10, REVISED FW12 IL.	13/12/21	AMB	PT
C06	ADDED RWP ON GRID B8.	09/11/21	AMB	PT
C05	PHARMACY OMITTED AND WEST TANK MOVED INTO SPACE REVISED TO MS COMMENTS 05/10/21	22/10/21	AMB	AMB
C04	ALTERED FOUL OUTFALL AND EAST ALLEY DRAINAGE TO MS COMMENTS. ADDED FOUL DRAINS FOLLOWING INSTRUCTION.	16/09/21	AMB	PT
C03	MS COMMENTS 17/08/21 (SEE MARK-UP)	31/08/21	AMB	PT
C02	ALTERED TANK 02 AND FLOW CONTROL RATES.	15/07/21	AMB	PT
C01	CHANGES TO SUIT MS COMMENTS OF 18/06/21. UPDATED ARCH DESIGN. AMENDED WEST TANK TO ALLOW 1:3 BATTER TO EXCAVATION. CONVERTED TO CIVIL 3D MODEL.	14/07/21	AMB	PT

Rev.	Description	Date	By	Chkd

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Status: **APPROVED AND ACCEPTED - STAGE 5**

Client: **MORGAN SINDALL**

Project: **MCC GORTON COMMUNITY HUB**

Org Title:

Project No: **062407** Size: **A1** Date: **AUG 2019** Drawn By: **SB** Designed By: **SB** Checked By: **AJR**

Project Code: **GCH - CUR - XX - XX - DR - C - 92002 - C13**

RESIDUAL HAZARD REGISTER

(RELATES TO CIVIL/STRUCTURAL MATTERS ONLY) MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 66884 CUR-DR-XX-A-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

DRAINAGE NOTES:

- ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS, BS EN 752 AND TO THE SATISFACTION OF THE BUILDING INSPECTOR.
- IN ADDITION, ALL SEWERS INDICATED FOR ADOPTION TO BE BUILT IN ACCORDANCE WITH SEWERS FOR ADOPTION PUBLISHED BY THE WATER SERVICES ASSOCIATION. SEE SEPARATE NOTES.
- ALL PROPRIETARY ITEMS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S DETAILS, INSTRUCTIONS & SPECIFICATIONS.
- ALL EXISTING DRAINS AND SERVICES (LINE AND LEVELS) TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO FINALISING NEW DRAINAGE LINES AND LEVELS.
- ALL COVER LEVELS ARE APPROXIMATE. EXACT LEVELS TO BE DETERMINED FROM THE EXTERNAL WORKS LAYOUT. PIPE GRADIENTS WHERE STATED ARE APPROXIMATE.
- INVERT LEVELS QUOTED AT MANHOLES AND INSPECTION CHAMBERS ARE THOSE OF THE LARGEST CONNECTED PIPE DIAMETER. PIPES AT CHAMBERS TO BE LAID WITH SOFFITS LEVEL UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECT'S DRAWINGS FOR PRECISE LOCATION OF ALL RAINWATER PIPES, INTERNAL CONNECTIONS ETC.
- 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 EN124 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 VEHICULAR ACCESS INCLUDING DOMESTIC DRIVEWAYS & SMALL CAR PARKS.
 - CLASS C250 GULLY TOPS IN CARRIAGEWAY WITHIN 500MM OF KERB AND UP TO 200MM INTO THE FOOTWAY.
 - 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.

SCALE 1:200