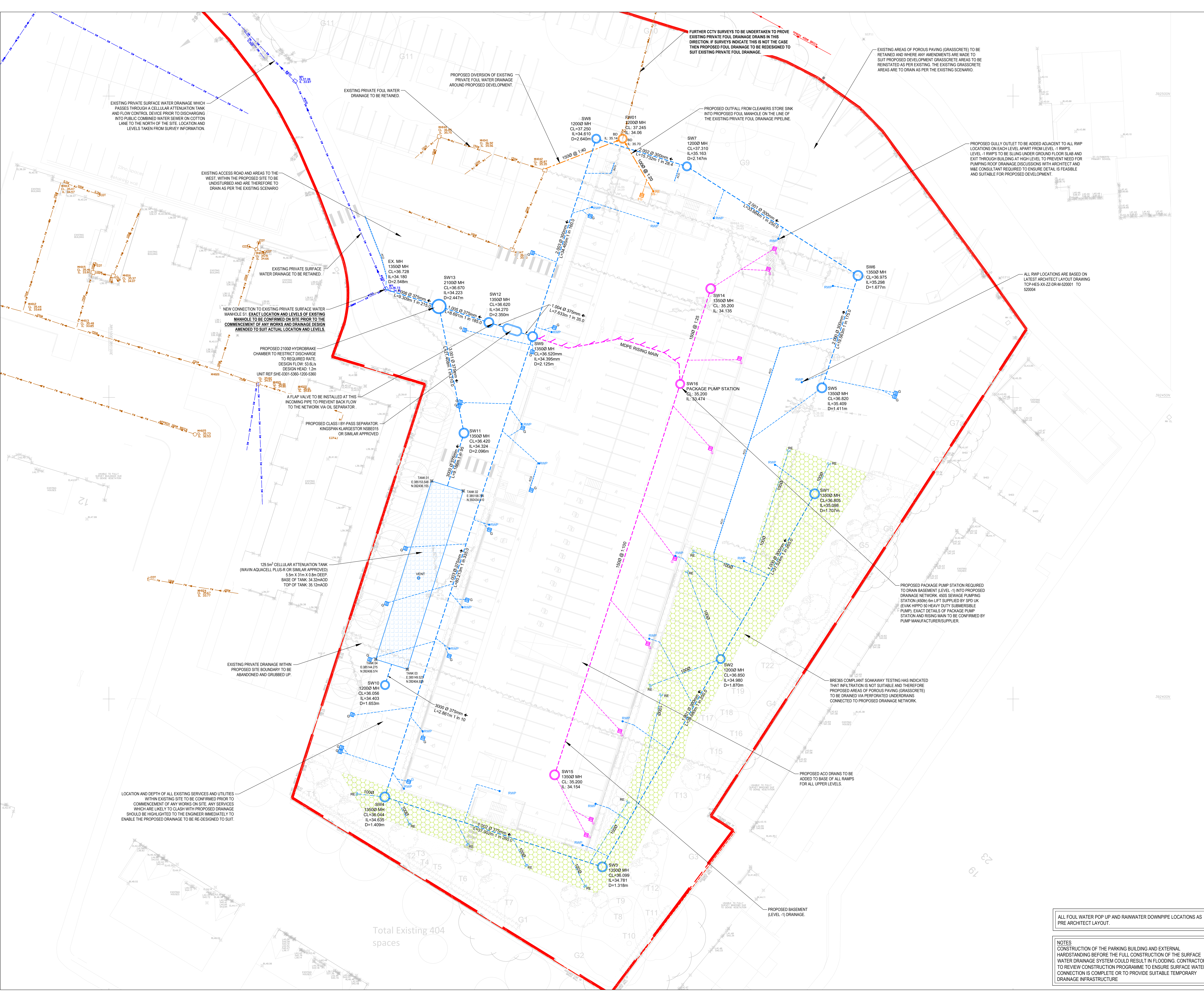




- GENERAL NOTES
- ALL LEVELS ARE IN METRES (U.N.O.) AND ARE RELATIVE TO ORDNANCE DATUM (A.O.D.)
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND CIVIL AND STRUCTURAL SPECIFICATION. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - THE CONTRACTOR IS TO TAKE ADEQUATE MEASURES TO PREVENT DAMAGE TO EXISTING FOUNDATIONS AND LIVE SERVICES. ANY REMEDIAL WORK TO EXISTING FOUNDATIONS AND SERVICES DAMAGED BY THE CONTRACTOR IS TO BE UNDERTAKEN TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR TO QUALIFY AND RECORD LOCATION, LEVEL AND SIZE OF EXPOSED SERVICES RELATIVE TO:
 - LEVEL - AN EXISTING DATUM
 - POSITION - RELATIVE TO GRID LINE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND ACCURACY OF ALL DIMENSIONS AND THE SETTING OUT OF WORK ON SITE.
 - ANY DISCREPANCY IN LEVELS OR DIMENSIONS TO BE REPORTED TO THE DESIGNER IMMEDIATELY.
 - EXCAVATIONS MUST NOT BE LEFT UNCOVERED FOR MORE THAN 24 HOURS.
 - EXCAVATIONS AND SURROUNDING SITE MUST BE KEPT FREE OF WATER AND SHALL BE TRIMMED, LEVELLED AND PROTECTED FROM FOLEMMENT WEATHER.
 - ALL PIPES SHALL BE LAID WITH SUFFICIENT LEVEL UNLESS NOTED OTHERWISE. PIPE GRADIENTS SHOWN ARE APPROXIMATE.
 - THE COVER LEVELS SHOWN SHALL SUIT THE EXACT FINISHED LEVEL AS REQUIRED ON SITE.
 - ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752 AND CURRENT BUILDING REGULATIONS.
 - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADAPTABLE HIGHWAYS SHALL BE 150mm.
 - THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES.
 - ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS).
 - DETAILS AND POSITIONS OF ALL EXISTING SERVICES TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.
 - ALL PIPES BELOW BUILDING AND EXTERNAL TO THE BUILDING WITH LESS THAN 0.6m COVER TO HAVE 150mm MINIMUM CONCRETE SURROUND TO BS 6500 CLASS GEN3 (0/10/20), OR SIMILAR APPROVED. ALL REMAINING UNDERGROUND PIPEWORK TO BE ON CLASS 'S' BEDDING.
 - ALL MANHOLE COVERS AND FRAMES TO BE DOUBLE SEALED AND LOCKABLE TO BS EN 124, WITH SIZES AND GRADES AS INDICATED ON THE MANHOLE SCHEDULE.
 - ALL BRANCH CONNECTIONS TO BE MADE WITH SWEEP BENDS IN THE DIRECTION OF FLOW IN THE MAIN SEWER.
 - ALL INLINE DRAINAGE CHANNEL AND GULLY CONNECTIONS TO BE 150mm Ø, UNLESS NOTED OTHERWISE.
 - ALL RAINWATER DOWN PIPE CONNECTIONS TO BE 110mm Ø UNLESS NOTED OTHERWISE.
 - INVERT LEVELS, DIMENSIONS AND LOCATIONS OF EXISTING SEWERS AND MANHOLES AFFECTING THE WORKS TO BE VERIFIED AND ASSESSED FOR SUITABILITY PRIOR TO COMMENCEMENT OF WORKS, PARTICULARLY AT POINTS OF CONNECTION.
 - ALL CHANNEL GRATINGS TO BE RATED TO LOAD CLASS D400 IN ACCORDANCE WITH BS EN 1433 UNLESS NOTED OTHERWISE.

SURFACE WATER PIPE MATERIALS

GRAVITY PIPEWORK

SURFACE WATER DRAINAGE
3000 AND LESS TO BE THERMOPLASTIC STRUCTURED WALL PIPES (AS POLYPIPE 'POLYSEWER' OR SIMILAR APPROVED) TO WIS4-35-01.
3750 AND ABOVE TO BE PRECAST, REINFORCED CONCRETE PIPES, CLASS 'M', WITH FLEXIBLE JOINTS TO BS 5911 OR THERMOPLASTIC STRUCTURED WALL PIPES (AS POLYPIPE 'RDGSEWER' OR SIMILAR APPROVED) TO WIS4-35-01.

FOUL WATER DRAINAGE
FOUL WATER DRAIN 100/150mm Ø POLYPIPE 'POLYSEWER' OR SIMILAR APPROVED, U.N.O.)

- LEGEND
- PROPOSED SURFACE WATER MANHOLE
 - PROPOSED FOUL WATER MANHOLE
 - PROPOSED BASEMENT (LEVEL -1) SURFACE WATER MANHOLE
 - PROPOSED SURFACE WATER DRAINAGE
 - PROPOSED BASEMENT (LEVEL -1) SURFACE WATER DRAINAGE
 - PROPOSED FOUL WATER DRAINAGE
 - PROPOSED MOPE RISING MAIN (DETAILS TBC BY OTHERS)
 - PROPOSED AREAS OF POROUS PAVING (GRASSCRETE)
 - PROPOSED PERFORATED UNDERDRAIN BELOW AREAS OF POROUS PAVING (GRASSCRETE)
 - PROPOSED LINEAR DRAINAGE CHANNEL
 - PROPOSED RAINWATER DOWNPIPE
 - PROPOSED FOUL STUB STACK
 - PROPOSED ROOFING EYE
 - PROPOSED GULLY - CONCRETE
 - EXISTING PRIVATE SURFACE WATER SEWER TO REMAIN
 - EXISTING PRIVATE FOUL WATER SEWER TO REMAIN
 - EXISTING PRIVATE DRAINAGE TO BE ABANDONED AND GRUBBED UP
 - POLYPROPYLENE INSPECTION CHAMBER

C13 (DRN)	14.03.2022	UPDATED TO SUIT ACTUAL INFORMATION	JUR	JRS	PL
C12 (DRN)	10.02.2022	REVISED FLOOD DRAINAGE AND ACCESSIBLE AREAS AROUND BMS AMENDED AND SW PIPES REMOVED	JRS	JRS	PL
C11 (DRN)	28.01.2022	BMS - SWP & FLOOD DRAINAGE AMENDED	JRS	JRS	PL
C10 (DRN)	17.01.2022	UPDATED TO SUIT LATEST EXTERNAL WORKS COMMENTS	JUR	JRS	PL
C09 (DRN)	18.11.2021	FINAL ISSUE CONSTRUCTION WITHOUT	JUR	JRS	PL
C08	15.11.2021	UPDATED TO SUIT LATEST SITE PLAN	JUR	JRS	PL
C07	22.10.2021	UPDATED TO SUIT LATEST REVISIONS	JUR	JRS	PL
C06	14.10.2021	UPDATED TO SUIT REVISIONS TO LEVELS AND ADDITIONAL RMPs	JUR	JRS	PL
C05	26.09.2021	GENERAL DRAINAGE NETWORK UPDATE	JRS	JRS	PL
C04	12.08.2021	UPDATE LAND DRAINAGE NETWORK	JRS	JRS	PL
C03	09.07.2021	UPDATE LAND DRAINAGE NETWORK	JRS	JRS	PL
C02	22.06.2021	DETAILED - ROOVED LAND DRAINAGE	JRS	JRS	PL
C01	24.05.2021	DETAILED - DRAINAGE LAYOUT PLAN	JRS	JRS	PL
P05	11.05.2021	PRELIMINARY - FLOOD LAYOUT UPDATED TO SUIT REVISIONS SITE LAYOUT	JRS	JRS	PL
P04	04.05.2021	PRELIMINARY - FLOOD LAYOUT UPDATED TO SUIT REVISIONS SITE LAYOUT	JRS	JRS	PL
P03	21.04.2021	PRELIMINARY - FLOOD LAYOUT UPDATED TO SUIT COMMENTS	JRS	JRS	PL
P02	18.04.2021	PRELIMINARY - FLOOD LAYOUT UPDATED TO SUIT COMMENTS	JRS	JRS	PL
P01	01.04.2021	PRELIMINARY - FOR DISCHARGE OF PLANNING CONDITIONS ONLY	JRS	JRS	PL
REV	DATE	DESCRIPTION	BY	CHK	APP

CONSTRUCTION RECORD					
CLIENT					
THE CHRISTIE NHS FOUNDATION TRUST					
ARCHITECT					
IBI GROUP					
PROJECT					
THE CHRISTIE P22 TIERED CAR PARK					
TITLE					
BELOW GROUND DRAINAGE DRAINAGE LAYOUT PLAN					
STATUS	PROJECT NO.	PROJECT	ORIGINATOR	VOLETS/LEVEL	TYPE
S2	218-310	TCP - AJP - XX - XX-DR - C-900100	C13		
SCALE @ A0	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
1:250	MH	MH	PL	PL	NOV 2021
AJP consulting engineers					
0151 227 1462 88 info@ajped.co.uk 81 Dale Street, Liverpool, L2 2ET					

ALL FOUL WATER POP UP AND RAINWATER DOWNPIPE LOCATIONS AS PRE ARCHITECT LAYOUT.

NOTES
CONSTRUCTION OF THE PARKING BUILDING AND EXTERNAL HARDSTANDING BEFORE THE FULL CONSTRUCTION OF THE SURFACE WATER DRAINAGE SYSTEM COULD RESULT IN FLOODING. CONTRACTOR TO REVIEW CONSTRUCTION PROGRAMME TO ENSURE SURFACE WATER CONNECTION IS COMPLETE OR TO PROVIDE SUITABLE TEMPORARY DRAINAGE INFRASTRUCTURE