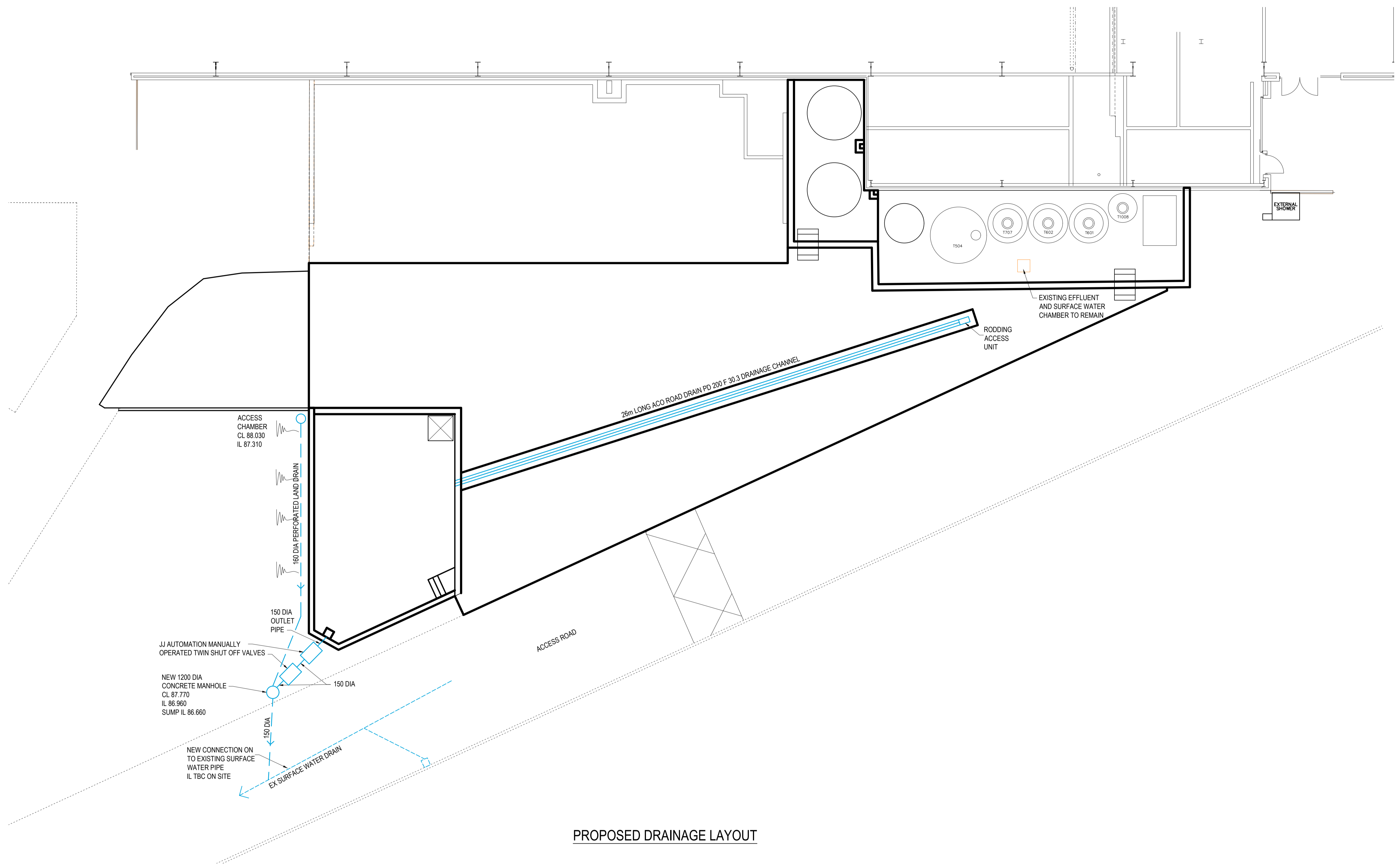


GENERAL NOTES

1. DRAINAGE DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH: BUILDING REGULATIONS APPROVED DOCUMENT H, BS EN 12056 - GRAVITY DRAINAGE SYSTEMS INSIDE BUILDINGS, BS EN 752 - DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS, BS EN 1610 - CONSTRUCTION AND TESTING OF DRAINS AND SEWERS, SEWERS FOR ADOPTION - 7TH EDITION.
2. THE CONTRACTOR IS TO CHECK THE CONDITION OF ALL EXISTING DRAINAGE DETAILS TO CONFIRM THEY ARE IN GOOD WORKING ORDER AND THE LEVELS SHOWN ON THIS DRAWING ARE ACCURATE PRIOR TO COMMENCEMENT OF ANY WORKS OR DURING WEEK ONE OF THE CONTRACT PROGRAMME. SLEATER & WATSON LLP ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES.
3. ALL ABOVE GROUND FOUL AND SURFACE WATER DRAINAGE DETAILS, INCLUDING SETTING-OUT DIMENSIONS TO SOIL PIPES, SOIL & VENT PIPES AND RAINWATER PIPES, ARE TO ARCHITECTS' / M&E ENGINEERS' DETAILS AND SPECIFICATION.
4. ALL INTERNAL BELOW GROUND DRAINAGE AND EXTERNAL DRAINAGE UP TO AND INCLUDING 300mm DIAMETER IS TO BE HEPWORTH SUPERSLEVE VITRIFIED CLAY PIPEWORK OR SIMILAR APPROVED TO BS EN 295-1.
5. ALL HEPWORTH BELOW GROUND DRAINAGE IS TO BE CONNECTED VIA HEPWORTH POLYPROPYLENE EPDM SEAL COUPLINGS REFERENCED - SC21 FOR 1000, SC22 FOR 1500, SC25 FOR 2250 AND SC27 FOR 3000
6. PIPE PENETRATIONS THROUGH PROPOSED WALLS TO HAVE PUDDLE FLANGES OR RIGID SHEET MATERIAL TO BOTH INTERNAL AND EXTERNAL FACES TO PREVENT ENTRY OF FILL OR VERMIN. PIPES ARE TO BE FITTED WITH A MAXIMUM 600mm LONG ROCKER PIPES ON THE INSIDE AND OUTSIDE OF WALL. PRE-CAST CONCRETE LINTELS, WALL WIDTH x 65mm DEEP WITH A MINIMUM BEARING OF 150mm EACH END, ARE TO BE PROVIDED TO ALL PENETRATIONS WITH A MINIMUM 50mm SPACE PROVIDED ALL AROUND THE PIPE.
7. ALL DRAINS ARE TO BE LAID TO THE GRADIENTS INDICATED ON PLAN. IN THE ABSENCE OF THIS INFORMATION THE FOLLOWING MINIMUM GRADIENTS CAN BE ADOPTED:
FOUL OR COMBINED WATER 100mm Ø = 1 IN 40
FOUL OR COMBINED WATER 150mm Ø = 1 IN 80
SURFACE WATER 150mm Ø = 1 IN 150
SURFACE WATER 225mm Ø = 1 IN 200
8. ALL CONCRETE MANHOLES ARE TO BE FORMED USING STANTON BONNA CONCRETE RINGS, COVER SLABS AND REDUCING SLABS (WHERE APPLICABLE) OR SIMILAR APPROVED TO BS EN 1917 AND BS 5911-3. FOR CONSTRUCTION AND SIZES REFER TO DETAILS DRAWING.
9. ALL MANHOLE COVERS ARE TO BE ORIENTATED TO SUIT EXTERNAL FEATURES, I.E. BUILDINGS, KERB LINES, BLOCK PAVING (IF PRESENT), ETC.
10. ALL INTERNAL INSPECTION AND MANHOLE CHAMBERS ARE TO HAVE DOUBLE SEALED ACCESS COVERS.
11. ALL DRAINAGE CHANNELS, ASSOCIATED GULLY / SUMP UNITS AND GRATINGS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DETAILS. DRAINAGE CHANNEL BED AND SURROUND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SLEATER & WATSON'S DETAIL DRAWINGS.
12. PRIOR TO CCTV SURVEY, THOROUGHLY FLUSH WITH WATER AND ROD ALL PIPELINES AND MANHOLES TO REMOVE ANY CONSTRUCTION DEBRIS, BACKFILL MATERIAL AND SILT. ANY DETRITUS PRESENT SHALL BE SAFELY DISPOSED OF WITHOUT DISCHARGING THEM INTO SEWERS OR WATERCOURSES.
13. UPON COMPLETION OF THE PROPOSED DRAINAGE WORKS, THE CONTRACTOR IS TO ARRANGE FOR ALL SYSTEMS, INCLUDING INTERFACES WITH EXISTING DRAINAGE PIPES AND MANHOLES, TO BE CCTV SURVEYED AND A REPORT PROVIDED TO SLEATER & WATSON LLP.



PROPOSED DRAINAGE LAYOUT

C2	LEVELS CORRECTED TO A.O.D. LEVEL	10.03.20	MB
C1	CONSTRUCTION ISSUE	14.02.20	MB
T2	DRAWING UPDATED FOLLOWING COMMENTS & SITE SURVEY	19.07.19	MB
T1	ISSUED FOR COSTING PURPOSES	08.03.19	MB
REV	AMENDMENTS	DATE	INTS

STATUS		CONSTRUCTION	
<p>Sleater & Watson LLP 26 West Cliff, Preston, Lancashire, PR1 8HU. Telephone: 01772 821044 E-mail: admin@sleaterwatson.co.uk Website: www.sleaterwatson.co.uk</p>			
CLIENT		T. CLARKE	
PROJECT		CHEMICAL DELIVERY AREA CTF BUILDING BAE SAMLESBURY	
DRAWING TITLE		EXTERNAL CHEMICAL DELIVERY AREA DRAINAGE LAYOUT	
DRAWN	M BILLINGTON	CHECKED	
DATE	21.06.09	SCALE@A1	1:100
DRAWING NUMBER	218/69/06	REV	C2