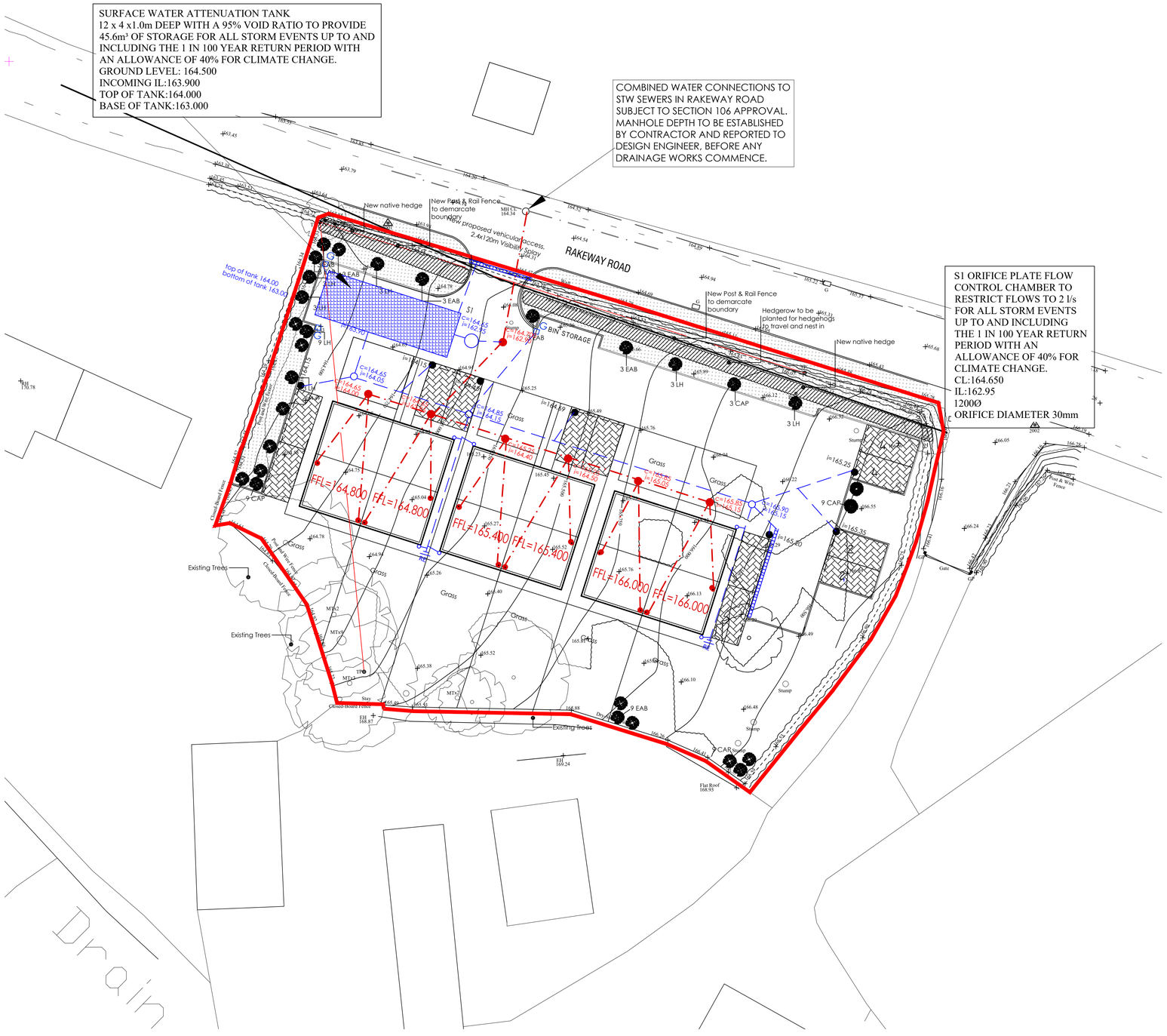
SURFACE WATER ATTENUATION TANK
12 x 4 x1.0m DEEP WITH A 95% VOID RATIO TO PROVIDE 45.6m³ OF STORAGE FOR ALL STORM EVENTS UP TO AND INCLUDING THE 1 IN 100 YEAR RETURN PERIOD WITH AN ALLOWANCE OF 40% FOR CLIMATE CHANGE.
GROUND LEVEL: 164.500
INCOMING IL:163.900
TOP OF TANK:164.000
BASE OF TANK:163.000

COMBINED WATER CONNECTIONS TO STW SEWERS IN RAKEWAY ROAD SUBJECT TO SECTION 106 APPROVAL. MANHOLE DEPTH TO BE ESTABLISHED BY CONTRACTOR AND REPORTED TO DESIGN ENGINEER, BEFORE ANY DRAINAGE WORKS COMMENCE.

S1 ORIFICE PLATE FLOW CONTROL CHAMBER TO RESTRICT FLOWS TO 2 l/s FOR ALL STORM EVENTS UP TO AND INCLUDING THE 1 IN 100 YEAR RETURN PERIOD WITH AN ALLOWANCE OF 40% FOR CLIMATE CHANGE.
CL:164.650
IL:162.95
1200Ø
ORIFICE DIAMETER 30mm



- EXISTING STW FOUL SEWER
- S1 — PROPOSED ORIFICE PLATE FLOW CONTROL CHAMBER
- PROPOSED FW DOMESTIC POLYPROPYLENE INSPECTION CHAMBER WITH INVERT LEVEL.
- PROPOSED FOUL WATER DOMESTIC DRAIN RUN
- PROPOSED SW DOMESTIC POLYPROPYLENE INSPECTION CHAMBER WITH INVERT LEVEL.
- PROPOSED SURFACE WATER DOMESTIC DRAIN RUN
- PROPOSED ROAD GULLY
- PROPOSED DOMESTIC RODDING EYE
- PROPOSED LINEAR CHANNEL DRAIN ACO HEXDRAIN PRO 100mm WITH LOAD CLASS C250 GRATING & FRAME OR SIMILAR APPROVED.
- PROPOSED PRIVATE CELLULAR ATTENUATION TANK HEPWORTH GEOLIGHT OR SIMILAR
- PROPOSED PERMEABLE BLOCK PAVED CAR PARKING SPACES
- POLYPROPYLENE CATCHPIT
- PROPOSED PERFORATED LAND DRAIN PIPE

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. ALL DRAINAGE WORKS ARE TO COMPLY WITH THE REQUIREMENTS OF BS 752 BUILDING DRAINAGE AND BUILDING REGULATIONS 2000 APPROVED DOCUMENT H 2002 EDITION.
3. ALL MATERIALS, UNLESS SPECIFIED OTHERWISE, SHALL COMPLY WITH THE RELEVANT BRITISH STANDARD. SOURCES OF MATERIALS ARE TO BE AGREED WITH THE EMPLOYER'S REPRESENTATIVE/ENGINEER IN ADVANCE OF THE WORKS.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING DRAWINGS AND DETAILS AND CONTRACT DOCUMENTATION
5. ANY DISCREPANCIES IN THE DETAILS SHOWN TO BE REPORTED TO THE EMPLOYER'S REPRESENTATIVE/ENGINEER PRIOR TO CONSTRUCTION.
6. LOCATION AND LEVELS OF EXISTING DRAINAGE RUNS ARE BASED UPON SEWER RECORD PLANS AND MUST BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS.
7. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORKS.
8. ALL DRAINAGE AND FITTINGS TO BE FLEXIBLY JOINTED CLAYWARE TO BS EN295 OR CONCRETE TO BS5911 PART 100 OR FLEXIBLY JOINTED UPVC PIPES AND FITTINGS TO WIS No 4-13-05.
9. TYPICAL PIPE BEDDING TO DRAINAGE WHERE DEPTH TO SOFFIT IS GREATER THAN 900mm IN LANDSCAPED AREAS AND GREATER THAN 1200mm IN TRAFFICKED AREAS IS TO BE CLASS S (I.E. 10-14mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES UP TO 525Ø AND 20 - 40mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES GREATER THAN 525Ø)
10. WHERE DEPTH TO SOFFIT OF DRAINAGE PIPEWORK IS LESS THAN 900mm IN LANDSCAPED AREAS AND LESS THAN 1200mm IN TRAFFICKED AREAS THEN PIPEWORK IS TO BE PROTECTED WITH 150mm MINIMUM THICK CONCRETE BED & SURROUND.
11. BACKFILL TO DRAINAGE TRENCHES UNDER CARRIAGEWAYS TO BE TYPE 1 SUB-BASE MATERIAL, ELSEWHERE BACKFILL TO BE FREE DRAINING READILY COMPATIBLE MATERIAL, FREE FROM RUBBISH AND ORGANIC MATTER, FROZEN SOIL CLAY LUMPS AND LARGE STONES. TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK.
12. MANHOLE DIAMETERS SHOULD BE IN ACCORDANCE WITH THE TABLE BELOW:

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200 *
375-450	1500
500-700	1500
750-900	1800
950-1200	2100

A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH A PIPE IS BUILT, COMPATIBLE WITH THE SATISFACTORY COMPLETION AND SUBSEQUENT MOVEMENT OF THE JOINT. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE AS SHOWN IN THE TABLE BELOW.

NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150-600	0.6
675-750	1.0
825 AND OVER	1.25

14. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.

Rev	Description	Chk'd/App'd	Date
A	LINEAR CHANNEL DRAIN ADDED AT JUNCTION WITH RAKEWAY ROAD	GB	25-06-20

Issue PRELIMINARY

Client/Architect
ANGELA BLOOR

Contract
RAKEWAY ROAD
CHEADLE

Title
PROPOSED DRAINAGE PLAN

KEYTECH DEVELOPMENT DESIGN LTD
46 SANDBACH ROAD, CONGLETON,CHESHIRE CW12 4LW
Phone/Fax: 01260 275766,e-mail: garybennett172@btinternet.com

Date 14/11/19 **Scale** 1/200
Original size A1
Drawn GB
Checked **Approved**

Drawing No. K817-102
Revision. A