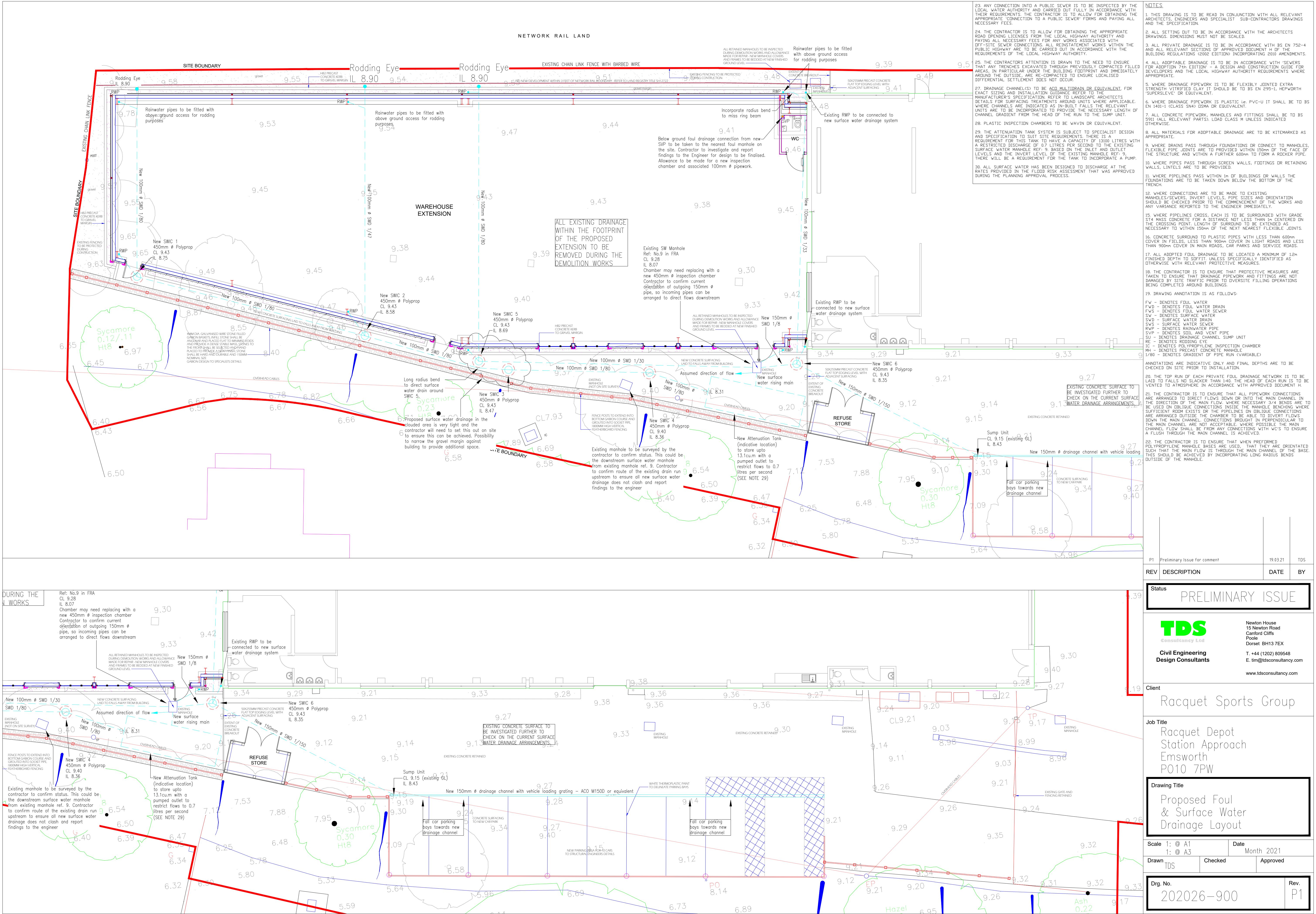




23. ANY CONNECTION INTO A PUBLIC SEWER IS TO BE INSPECTED BY THE LOCAL WATER AUTHORITY AND CARRIED OUT FULLY IN ACCORDANCE WITH THEIR REQUIREMENTS. THE CONTRACTOR IS TO ALLOW FOR OBTAINING THE APPROPRIATE CONNECTION TO A PUBLIC SEWER FORMS AND PAYING ALL NECESSARY FEES.
24. THE CONTRACTOR IS TO ALLOW FOR OBTAINING THE APPROPRIATE ROAD OPENING LICENSES FROM THE LOCAL HIGHWAY AUTHORITY AND PAYING ALL NECESSARY FEES FOR ANY WORKS ASSOCIATED WITH OFF-SITE SEWER CONNECTIONS. ALL REINSTATEMENT WORKS WITHIN THE PUBLIC HIGHWAY ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HIGHWAY AUTHORITY.
25. THE CONTRACTOR'S ATTENTION IS DRAWN TO THE NEED TO ENSURE THAT ANY TRENCHES EXCAVATED THROUGH PREVIOUSLY COMPACTED FILLED AREAS, IN PARTICULAR UNDER THE BUILDING FOOTPRINT AND IMMEDIATELY AROUND THE OUTSIDE, ARE RE-COMPACTED TO ENSURE LOCALISED DIFFERENTIAL SETTLEMENT DOES NOT OCCUR.
27. DRAINAGE CHANNEL(S) TO BE ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER'S SPECIFICATION. REFER TO LANDSCAPE ARCHITECTS DETAILS FOR SURFACING TREATMENTS AROUND UNITS WHERE APPLICABLE. WHERE CHANNELS ARE INDICATED AS IN-BUILT FALLS THE RELEVANT UNITS ARE TO BE INCORPORATED TO PROVIDE THE NECESSARY LENGTH OF CHANNEL GRADIENT FROM THE HEAD OF THE RUN TO THE SUMP UNIT.
28. PLASTIC INSPECTION CHAMBERS TO BE WOVIN OR EQUIVALENT.
29. THE ATTENUATION TANK SYSTEM IS SUBJECT TO SPECIALIST DESIGN AND SPECIFICATION TO SUIT SITE REQUIREMENTS. THERE IS A REQUIREMENT FOR THIS TANK TO HAVE A CAPACITY OF 1300 LITRES, WITH A RESTRICTED DISCHARGE OF 0.7 LITRES PER SECOND TO THE EXISTING SURFACE WATER MANHOLE REF. 9. BASED ON THE INLET AND OUTLET LEVELS AND THE INVERT LEVEL OF THE EXISTING MANHOLE REF. 9. THERE WILL BE A REQUIREMENT FOR THE TANK TO INCORPORATE A PUMP.
30. ALL SURFACE WATER HAS BEEN DESIGNED TO DISCHARGE AT THE RATES PROVIDED IN THE FLOOD RISK ASSESSMENT THAT WAS APPROVED DURING THE PLANNING APPROVAL PROCESS.

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST SUB-CONTRACTORS DRAWINGS AND THE SPECIFICATION.
2. ALL SETTING OUT TO BE IN ACCORDANCE WITH THE ARCHITECTS DRAWINGS. DIMENSIONS MUST NOT BE SCALED.
3. ALL PRIVATE DRAINAGE IS TO BE IN ACCORDANCE WITH BS EN 752-4 AND ALL RELEVANT SECTIONS OF APPROVED DOCUMENT H OF THE BUILDING REGULATIONS (2002 EDITION) INCORPORATING 2010 AMENDMENTS.
4. ALL ADAPTABLE DRAINAGE IS TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPTION 7th EDITION' - A DESIGN AND CONSTRUCTION GUIDE FOR DEVELOPERS AND THE LOCAL HIGHWAY AUTHORITY REQUIREMENTS WHERE APPROPRIATE.
5. WHERE DRAINAGE PIPEWORK IS TO BE FLEXIBLY JOINTED EXTRA STRENGTH VITRIFIED CLAY IT SHOULD BE TO BS EN 295-1. HEPWORTH 'SUPERSEAL' OR EQUIVALENT.
6. WHERE DRAINAGE PIPEWORK IS PLASTIC i.e. PVC-U IT SHALL BE TO BS EN 1401-1 (CLASS SN4) DMSA OR EQUIVALENT.
7. ALL CONCRETE PIPEWORK, MANHOLES AND FITTINGS SHALL BE TO BS 5911 (ALL RELEVANT PARTS). LOAD CLASS M UNLESS INDICATED OTHERWISE.
8. ALL MATERIALS FOR ADAPTABLE DRAINAGE ARE TO BE KITEMARKED AS APPROPRIATE.
9. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, FLEXIBLE PIPE JOINTS ARE TO BE PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE AND WITHIN A FURTHER 600mm TO FORM A ROCKER PIPE.
10. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, UNITS ARE TO BE PROVIDED.
11. WHERE PIPELINES PASS WITHIN 1m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH.
12. WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES/SEWERS, INVERT LEVELS, PIPE SIZE AND ORIENTATION SHOULD BE CHECKED PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.
13. WHERE PIPELINES CROSS, EACH IS TO BE SURROUNDED WITH GRADE ST4 MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTERED ON THE CROSSING POINT. LENGTH OF SURROUND TO BE EXTENDED AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINTS.
14. CONCRETE SURROUND TO PLASTIC PIPES WITH LESS THAN 600mm COVER IN FIELDS, LESS THAN 900mm COVER IN LIGHT ROADS AND LESS THAN 900mm COVER IN MAIN ROADS, CAR PARKS AND SERVICE ROADS.
15. ALL ADOPTED FOUL DRAINAGE TO BE LOCATED A MINIMUM OF 12m FINISHED DEPTH TO SOFFIT. UNLESS SPECIFICALLY IDENTIFIED AS OTHERWISE WITH RELEVANT PROTECTIVE MEASURES.
16. THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT DRAINAGE PIPEWORK AND FITTINGS ARE NOT DAMAGED BY SITE TRAFFIC PRIOR TO DIVERSITY FILLING OPERATIONS BEING COMPLETED AROUND BUILDINGS.
17. DRAWING ANNOTATION IS AS FOLLOWS:
FW - DENOTES FOUL WATER
FWD - DENOTES FOUL WATER DRAIN
FWS - DENOTES FOUL WATER SEWER
SV - DENOTES SURFACE WATER
SWD - SURFACE WATER DRAIN
SWS - SURFACE WATER SEWER
RWP - DENOTES RAINWATER VENT PIPE
SVP - DENOTES SOIL AND VENT PIPE
DC - DENOTES DRAINAGE CHANNEL, SUMP UNIT
RE - DENOTES RODDING EYE
IC - DENOTES POLYPROPYLENE INSPECTION CHAMBER
MH - DENOTES PRECAST CONCRETE MANHOLE
1/80 - DENOTES GRADIENT OF PIPE RUN (VARIABLE)
18. ANNOTATIONS ARE INDICATIVE ONLY AND FINAL DEPTHS ARE TO BE CHECKED ON SITE PRIOR TO INSTALLATION.
19. THE TOP RUN OF EACH PRIVATE FOUL DRAINAGE NETWORK IS TO BE LAID TO FALLS NO SLACKER THAN 1:40. THE HEAD OF EACH RUN IS TO BE VENTED TO ATMOSPHERE IN ACCORDANCE WITH APPROVED DOCUMENT H.
20. THE CONTRACTOR IS TO ENSURE THAT ALL PIPEWORK CONNECTIONS ARE ARRANGED TO DIRECT FLOWS DOWN OR INTO THE MAIN CHANNEL IN THE DIRECTION OF THE MAIN FLOW. WHERE NECESSARY 3/4 BENDS ARE TO BE USED ON OBLIQUE CONNECTIONS INSIDE THE MANHOLE BENCHING WHERE SUFFICIENT ROOM EXISTS OR THE PIPELINES ON OBLIQUE CONNECTIONS ARE ARRANGED OUTSIDE THE CHAMBER TO BE ABLE TO DIVERT FLOWS DOWN THE MAIN CHANNEL. CONNECTIONS BROUGHT IN PERPENDICULAR TO THE MAIN CHANNEL ARE NOT ACCEPTABLE. WHERE POSSIBLE THE MAIN CHANNEL FLOW SHALL BE FROM ANY CONNECTIONS WITH W/C'S TO ENSURE A FLUSH THROUGH THE MAIN CHANNEL IS ACHIEVED.
21. THE CONTRACTOR IS TO ENSURE THAT WHEN PERFORMED POLYPROPYLENE MANHOLE BASES ARE USED, THAT THEY ARE ORIENTATED SUCH THAT THE MAIN FLOW IS THROUGH THE MAIN CHANNEL OF THE BASE. THIS SHOULD BE ACHIEVED BY INCORPORATING LONG RADIUS BENDS OUTSIDE OF THE MANHOLE.

P1	Preliminary Issue for comment	19.03.21	TDS
REV	DESCRIPTION	DATE	BY
Status			
PRELIMINARY ISSUE			
Client			
Racquet Sports Group			
Job Title			
Racquet Depot Station Approach Emsworth PO10 7PW			
Drawing Title			
Proposed Foul & Surface Water Drainage Layout			
Scale 1: @ A1 1: @ A3		Date Month 2021	
Drawn TDS	Checked	Approved	
Drg. No. 202026-900		Rev. P1	