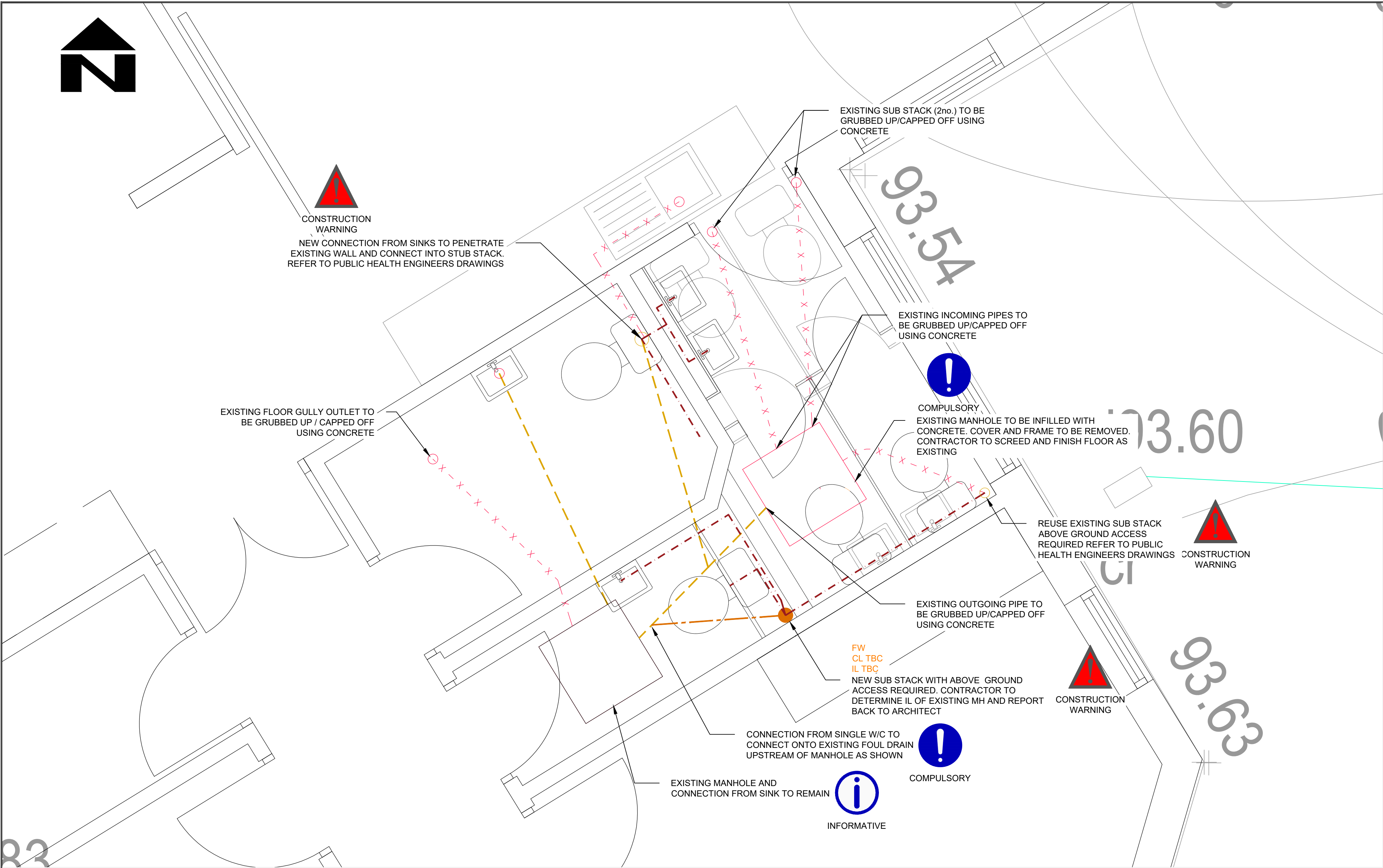




NOTES

GENERAL

- 1. DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
- 2. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- 3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
- 4. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY, SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
- 5. IT IS THE CONTRACTORS/SUBCONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH THE CURRENT BUILDING REGULATIONS, CODES OF PRACTICE, CURRENT STANDARDS AND PRODUCT MANUFACTURES DETAILS AND SPECIFICATION.
- 6. THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS AGREED DURING THE DURATION OF THE WORKS, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN "AS-CONSTRUCTED" DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.

DRAINAGE GENERAL

- 7. BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR MUST CHECK THE INVERT LEVELS OF EXISTING SEWERS TO WHICH CONNECTIONS ARE MADE. IN ADDITION THE CONTRACTOR MUST LOCATE AND DETERMINE INVERT LEVELS OF THE EXISTING SPURS TO WHICH CONNECTIONS ARE PROPOSED. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER IMMEDIATELY, PRIOR TO CONSTRUCTION.
- 8. ALL DRAINAGE WORKS SHOULD COMMENCE AT THE PROPOSED DOWNSTREAM CONNECTION POINT. THE WORKS CONTINUING UPSTREAM FOLLOWING CONFIRMATION OF THE TIE-IN INVERT LEVELS TO THE ENGINEER. CONNECTIONS TO MANHOLES OR LARGER SIZED PIPES ETC. SHOULD BE SOFFIT TO SOFFIT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. IF THIS IS NOT POSSIBLE INFORM THE CIVIL ENGINEER IMMEDIATELY.
- 9. ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT PART-H, AND TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
- 9. IF ANY SUB SOIL DRAINAGE SYSTEMS ARE UNCOVERED DURING THE WORKS CONTACT THE ENGINEER FOR INSTRUCTIONS. SUB SOIL DRAINS ARE TO BE DERTED AROUND NEW WORKS AND CONNECTED INTO THE SURFACE WATER.
- 10. ALL REDUNDANT DRAINAGE TO BE ABANDONED ONCE THE CONTRACTOR HAS SATISFIED HIMSELF THAT NO CONNECTIONS REMAIN LIVE. REDUNDANT DRAINAGE TO BE GRUBBED OUT.
- 14. ALL FOUL WATER PIPE WORK IS TO BE VERIFIED CLAY UNLESS SPECIFIED OTHERWISE.
- 15. ALL STORM WATER PIPE WORK IS TO BE STRUCTURED WALL PLASTIC UNLESS SPECIFIED OTHERWISE
- 16. ALL UN-REFERENCED PIPES ARE ASSUMED TO BE Ø100. MINIMUM CONSISTENT GRADIENTS ALONG THE WHOLE LENGTH OF THE PIPE AS LISTED BELOW:
 - FW MIN GRADIENT - 1 IN 40 (Ø100) NO WC'S CONNECTED
 - FW MIN GRADIENT - 1 IN 80 (Ø100) MIN 1 WC CONNECTED
 - FW MIN GRADIENT - 1 IN 150 (Ø150) MIN 5 WC'S CONNECTED
 - SW MIN GRADIENT - 1 IN 100 (Ø100)
 - SW MIN GRADIENT - 1 IN 150 (Ø150)
- 17. PROPOSED COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS TO ENSURE THEY LAY FLUSH.
- 17. ALL MANHOLE COVERS IN AREAS OF BLOCK PAVING, COLOURED SURFACING, PAVING SLABS OR OTHER DECORATIVE PAVING AREAS ARE TO BE RECESSED TO ACCEPT THE PARTICULAR SURFACING TYPE.
- 18. ALL EXISTING MANHOLE COVERS, GULLIES, ETC. ARE TO BE RAISED TO SUIT NEW LEVEL AND BUILDING REGULATIONS PART-H.
- 19. ROAD GULLY OUTLET PIPES ARE TO BE Ø150mm. WITH CONCRETE SURROUND AND FLEXIBLE JOINTS.
- 20. SHALLOW PRIVATE DRAINS MAY REQUIRE PROTECTION USING CLASS 2' CONCRETE SURROUND OR PAVING SLABS BRIDGING THE TRENCH SUBJECT TO THE NHBC INSPECTOR'S REQUIREMENTS.
- 21. ALL BELOW GROUND CONCRETE TO ACCORD WITH BS5328:1997:SULPHATE CLASS TBA.
- 22. REFERENCE SHOULD BE MADE TO THE STRUCTURAL ENGINEERS DETAILS FOR ALL ASPECTS OF FOUNDATION DESIGN AND CONSTRUCTION.
- 23. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, A FLEXIBLE PIPE JOINT SHOULD BE PROVIDED TO FORM A ROCKER PIPE IN ACCORDANCE WITH THE STANDARD DETAIL PROVIDED.
- 24. WHERE DRAINAGE RUNS PASS CLOSE TO BUILDINGS OR THEIR INVERT LEVELS ARE BELOW FOUNDATION LEVEL, THEN THE TRENCHES ARE TO BE BACK FILLED IN ACCORDANCE WITH THE STANDARD DETAIL PROVIDED.
- 25. ALL DOWNPIPES ARE TO BE SEALED AND CONNECTED DIRECTLY TO THE STORMWATER DRAIN. ACCESS POINTS ARE TO BE PROVIDED 1m ABOVE GROUND LEVEL FOR EXTERNAL RWP'S AND 1m ABOVE FFL FOR INTERNAL RWP'S. IF INTERNAL RWP'S ARE TO BECOME INACCESSIBLE THEN ACCESS CHAMBERS ARE TO BE PROVIDED EXTERNALLY TO ACCESS EACH RWP.
- 26. ALL ROAD GULLIES SHALL BE FITTED WITH GRADE D400 GRATINGS AND FRAMES AND YARD GULLIES SHALL BE FITTED WITH GRADE B125 GRATING AND FRAMES TO BS EN124, UNLESS OTHERWISE STATED.
- 27. IN ORDER TO MAINTAIN THE SATISFACTORY FUNCTIONING OF SURFACE WATER SEWERS, ALL ROAD AND YARD GULLIES ARE TO BE "TRAPPED".
- 28. UNLESS OTHERWISE NOTED, CHANNEL DRAINS ARE TO BE ACO MuirDrain MD SYSTEM WITH A15 GRATINGS IN PEDESTRIAN AREAS, C250 IN CAR PARKS AND D400 IN CARRIAGEWAYS. GRATING STYLE TO SUIT THE LANDSCAPE ARCHITECTS SPECIFICATION. SLOTTED CHANNEL TO BE USED FOR AREAS WITH FALLS <1:15 MESH GRATING TO BE USED WHERE FALLS >1:15. SHOULD THE CONTRACTOR WISH TO USE A DIFFERENT SYSTEM, PRIOR APPROVAL TO USE SHALL BE SOUGHT FROM THE ENGINEER.
- 29. UNLESS OTHERWISE NOTED, ALL THRESHOLD DRAINS AT DOORWAYS ARE TO BE ACO THRESHOLD DRAINS. SHOULD THE CONTRACTOR WISH TO USE A DIFFERENT SYSTEM, PRIOR

- APPROVAL TO USE SHALL BE SOUGHT FROM THE ENGINEER.
- 30. MODULAR GEOCELLULAR STORAGE/SOAKAWAY SYSTEM TO CONFORM TO CIRIA C697 THE SUDS MANUAL, C680 STRUCTURAL DESIGN OF MODULAR GEOCELLULAR DRAINAGE TANKS & C698 SITE HANDBOOK FOR THE CONSTRUCTION OF SUDS. THE MANUFACTURER SHOULD PROVIDE A COMPLETE SET OF INDEPENDENT TEST RESULTS FOR A PROPOSED SYSTEM INCLUDING, AS A MINIMUM, STRESS/STRAIN CURVES FOR VERTICAL AND LATERAL COMPRESSION, AND CREEP TESTS UNDER SUSTAINED LONG-TERM LOADS. A BBA CERTIFICATE IS NOT INDEPENDENT TEST DATA.
- 31. NO PRIVATE AREAS ARE TO DRAIN ONTO ADAPTABLE AREAS AND VICE VERSA. NO PRIVATE DRAINS SHOULD FEED INTO PUBLIC MAINTAINED SYSTEMS UNLESS SPECIFIED/APPROVED.
- 39. AIR TESTING OF THE NEW FOUL AND STORM WATER SYSTEMS TO BS EN 1610 BEFORE BACK FILLING.
- 40. SOFT SPOTS IN FORMATION ARE TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.

EXTERNAL WORKS GENERAL

- 41. HB2 KERB UPSTANDS TO BE 100mm. FOR BN KERB UPSTANDS REFER TO DRAWINGS LEGEND. EF EDGINGS TO BE USED AT THE BACK OF FOOTWAYS/VERGES.
- 42. KERBS SHALL BE PRECAST CONCRETE KERBS COMPLYING WITH BS EN 1340 AND THE FOLLOWING:
 - 43. WEATHERING RESISTANCE: CLASS 3
 - 44. BENDING STRENGTH: CLASS 2
 - 45. ABRASION RESISTANCE: CLASS 3.
 - 46. SLIP/SKID RESISTANCE: MIN P.P.T.V. 45 TO BS 7932.
- 47. ALL FOOTWAYS WITH A WIDTH GREATER THAN 1.8m ARE TO BE MACHINE LAID.
- 48. MIX ST1 CONCRETE KERB BEDDING TO CLAUSE 2602SR SHALL BE LAID ON SUBBASE AND SHALL BE A MINIMUM THICKNESS OF 150. SUBBASE SHALL BE EXCAVATED WHERE NECESSARY TO ACHIEVE 150 THICKNESS. RECOMPACT DISTURBED SUBBASE PRIOR TO CONSTRUCTION OF KERB BASE.
- 49. WHERE EXCAVATION INTO EXISTING CARRIAGEWAY IS REQUIRED A TRENCH SHALL BE EXCAVATED OF SUFFICIENT DEPTH AND WIDTH TO ACCOMMODATE THE COMPLETE BED AND BACKING OF THE KERB TYPE SCHEDULED. REFER TO THE LOCAL HIGHWAYS AUTHORITIES STANDARD DETAILS.
- 50. AS DESCRIBED IN CLAUSE 1101, SUB-CLAUSE 1, KERBS MAY BE LAID AND BEDDED ON MORTAR OR LAID DIRECTLY ONTO STILL PLASTIC CONCRETE BED AS ILLUSTRATED HERE.
- 51. THE THE APPROPRIATE 914mm LONG PRECAST CONCRETE TRANSITION KERB SHALL BE INSTALLED AT EACH CHANGE IN KERB TYPE, TIE-INS TO EXISTING AND AT TERMINATIONS.
- 52. THE MINIMUM LENGTH OR ANY CUT KERB SHALL BE 450mm.
- 53. SOFT SPOTS IN THE FORMATION ARE TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- 54. ALL EXISTING MANHOLE COVERS, GULLIES ETC. ARE TO BE RAISED TO SUITE PROPOSED LEVELS.
- 55. RE-GRADING AND EMBANKMENTS ARE TO HAVE A MAXIMUM SLOPE GRADIENT OF 1:3.
- 56. ALL PROPOSED SIGNING AND LINING, AND ANY EXISTING TO REINSTATE, IS TO BE IN ACCORDANCE WITH THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2016 AND TO THE SATISFACTIONS OF THE HIGHWAYS INSPECTOR.
- 57. NO BLOCKS/SLABS WITH A UNIT WEIGHT IN EXCESS OF 20kg TO BE USED.
- 58. KERBS IN EXCESS OF 20kg ARE TO BE MACHINE LAID.

DRAINAGE LEGEND

EXISTING FEATURES

- x - x - x - EXISTING FOUL DRAINS TO BE GRUBBED UP / CAPPED OFF AND ABANDONED
- EXISTING FOUL DRAINS TO REMAIN

PROPOSED FEATURES

- - - - - PROPOSED ABOVE GROUND DRAINAGE
- PROPOSED 1000 BELOW GROUND FOUL DRAINAGE

WARNING SIGN LEGEND

INDICATES RISKS REQUIRING THE FOLLOWING



A COMPULSORY ACTION

COMPULSORY



SPECIAL ATTENTION BY THE CONTRACTOR

CONSTRUCTION WARNING



FOR INFORMATION

INFORMATIVE

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IMPORTANT NOTE: CAUTION

ALL INFORMATION SHOWN ON THIS DRAWING FOR UNDERGROUND SERVICES/STATUTORY UNDERTAKERS' PLANT IS APPROXIMATE AND IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY. IT SHOULD NOT BE RELIED ON FOR EXCAVATION OR ANY OTHER WORKS PURPOSES AND CONTRACTORS MUST SATISFY THEMSELVES OF THEIR LOCATIONS PRIOR TO THE COMMENCEMENT OF WORKS.

PARTS OF THIS DRAWING SHOULD BE SHOWN IN COLOUR. IF THIS NOTE IS NOT RED REPRINT A COLOURED COPY

										CLIENT	PROPERTY SERVICES HAMPSHIRE COUNTY COUNCIL UNIVERSAL SERVICES		Hampshire Engineering Services	EII Court West - 2nd Floor The Castle Winchester SO23 8UJ engineering.services@hants.gov.uk www.hants.gov.uk/engineeringservices	SCALE @ A1 1:20 SCALE @ A3 - SHEET No. 2 OF 2	SCHEME PARK LANE JUNIOR SCHOOL	DRAWING TITLE REFURBISHMENT WORKS DRAINAGE LAYOUT	
A	C01	ISSUED FOR CONSTRUCTION					25.06.2024	L.W	L.W	S.B	J.D							
D2	T01.1	ISSUED FOR TENDER					08.02.2024	L.W	L.W	S.B	J.D							
S2	P01.1	ISSUED FOR PLANNING					03.11.2023	L.W	L.W	S.B	J.D							
SUIT	REV	AMENDMENTS					DATE	ENG	TECH	CHKD	APPD							