

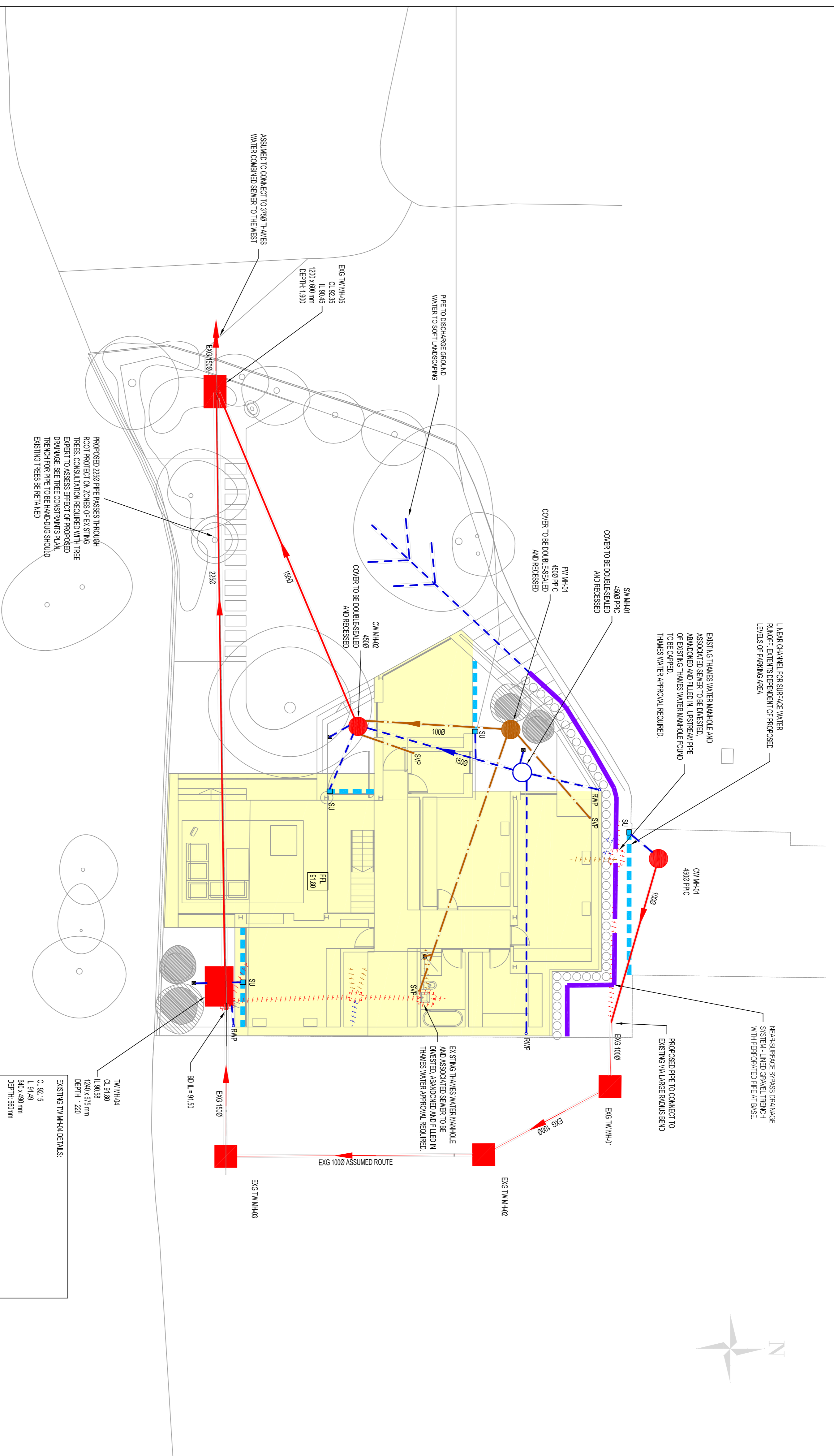
This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
Do not scale from this drawing.

LEGEND

- EXISTING/PROPOSED COMBINED MANHOLE
- EXISTING/PROPOSED FOLI MANHOLE
- EXISTING SURFACE WATER MANHOLE
- PROPOSED SURFACE WATER MANHOLE
- EXISTING COMBINED WATER SEWER/DRAIN
- EXISTING FOLI WATER SEWER/DRAIN
- EXISTING SURFACE WATER SEWER/DRAIN
- PROPOSED COMBINED WATER SEWER/DRAIN
- PROPOSED FOLI WATER SEWER/DRAIN
- PROPOSED SURFACE WATER SEWER/DRAIN
- PROPOSED SURFACE WATER RISING MAIN
- PROPOSED SURFACE WATER RISING MAIN
- FOLI WATER PIPE TO BE ABANDONED
- SURFACE WATER PIPE TO BE ABANDONED
- COMBINED WATER PIPE TO BE ABANDONED
- GULLY
- SUB STACK
- SOIL VENT PIPE
- RAIN WATER PIPE
- PERMEABLE PAVING
- LINEAR CHANNEL WITH SUUP UNIT
- AND FOLI AIR TRAP
- UNDEE TRENCH TO DIRECT SURFACE WATER AWAY FROM RETAINING WALL

DRAINAGE NOTES

- THE LOCATION AND LEVEL OF EXISTING DRAINAGE CONNECTIONS AND EXISTING SERVICES IS TO BE CHECKED PRIOR TO COMMENCEMENT OF DRAINAGE WORKS. ANY VARIANCE TO THE DETAILS ON THIS DRAWING AND THE SCHEDULE IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE DESIGN IS BASED ON THE INFORMATION AVAILABLE ON THE DATE OF ISSUE FROM OTHER PARTS EG ARCHITECT DRAWING & ENGINEER. IT IS SUBJECT TO CHANGE RESULTING FROM UPDATES TO THE AVAILABLE INFORMATION FROM OTHERS.
- THE DRAINS ARE TO BE READ IN CONJUNCTION WITH THE NBS SPECIFICATIONS. ASSOCIATED MANHOLE SCHEDULE AND STANDARD DRAINAGE DETAIL DRAWINGS WHERE APPLICABLE.
- THE POSITIONS OF FOLI AND SURFACE WATER DRAINAGE POINTS ARE INDICATIVE ONLY. REFER TO THE ARCHITECT'S DRAWINGS FOR SETTING OUT DETAILS.
- MANHOLES, SEWERS, LATERAL CONNECTIONS ETC AND ANY OTHER PART OF THE WORKS INTENDED FOR ADOPTION UNDER A SECTION FOR AGREEMENT OR GULLIES ETC. THE DESIGNER'S POSITION AS DESIGNER OF THE WORKS IS TO BE MAINTAINED AS FAR AS POSSIBLE TO THE ADOPTION 6TH EDITION (OR LATEST) AND TO THE PERFORMA OF THE WATER AND HIGHWAY AUTHORITIES.
- UNADOPTED FV AND SW DRAINAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS, BS EN12512 AND BS EN12056.
- DRAINS ARE TO BE CONSTRUCTED USING FLEXIBLY JOINTED VITRIFIED CLAY PIPES TO BS EN 2861 - SUPER STRENGTH SPECIFICATION (EG HEROWORTH SUPERSEAL) OR SIMILAR APPROVED OR UPVC BUILDING DRAINAGE SYSTEM PERFORMA TO BS 4690 AND BS EN14011. BEDDING AND BACKFILL IS TO BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
- ALL SW CONNECTIONS UNDER BUILDINGS TO BE 100mm DIA LID AT A MINIMUM GRADIENT OF 1:60 UNLESS NOTED OTHERWISE AND SHOULD BE RODDABLE FROM GROUND LEVEL.
- ALL RWP CONNECTIONS TO BE 100mm DIA/ETER AND TO BE LAD AT A MINIMUM GRADIENT OF 1:80 UNLESS NOTED OTHERWISE AND SHOULD BE RODDABLE FROM ABOVE GROUND LEVEL.
- RAINWATER DOWN PIPES TO CONNECT TO A DRAIN VIA A HES (TRAP) OR BE CONNECTED DIRECT TO A TRAPPED GULLY OR FOLI PIPE OR A COMBINED SYSTEM. WHERE INTERNAL RAMP/POOL TRAP PIPES ARE TO BE CONNECTED TO A FOLI TRAP WITH RODDABLE ACCESS ABOVE FLOOR LEVEL.
- CHANNEL DRAINS TO BE 400 W/100 D/D WITH SUUP UNIT OR SIMILAR APPROVED GRATING TO BE IN ACCORDANCE WITH ARCHITECT OR LANDSCAPE ARCHITECT SPECIFICATION.
- IN CASES OF IN SITU CONCRETE FLOOR SLABS DRAINS ARE TO BE CAST INTEGRAL WITH THE SLAB WHERE PIPE COVER TO THE CROWN IS LESS THAN 300mm. NOTE SPECIAL PROVISIONS APPLY TO BASEMENT FLOOR SLABS. SEE DETAILED DRAINAGE AND STRUCTURAL DRAWINGS. CONCRETE ENCASEMENT TO BE REINFORCED AS PER DRAINAGE DETAIL.
- IN CASES OF SUSPENDED FLOORS WHERE A VOID OF 300mm OR MORE EXISTS BELOW FLOOR DRAINS ARE TO BE SUSPENDED USING A PROPRIETARY HANGER SYSTEM OR CAST INTEGRAL WITH THE FLOOR.
- WHERE DRAINS PASS THROUGH FOUNDATIONS OR OTHER RIGID STRUCTURES A UNEL OR SLEEVE IS TO BE USED AND PROVISION FOR FLEXIBILITY IS TO BE MADE USING ROCKER PIPES.
- BACKFILLING OF DRAIN TRENCHES ADJACENT TO BUILDING OR OTHER STRUCTURES IS TO BE IN ACCORDANCE WITH DRAWING 08 OF THE BUILDING REGULATIONS.
- DRAINS WITHIN AREAS OF MADE GROUND TO BE CONSTRUCTED BY FIRST FILLING THE VOID WITH GRANULAR MATERIAL INTO UNDISTURBED GROUND. THE DRAIN TRENCH IS THEN TO BE BACKFILLED TO FORMATION LEVEL USING SUITABLE GRANULAR FILL MATERIAL WELL COMPACTED IN LAYERS NOT EXCEEDING 225mm.
- ALL INTERNAL FLOOR DRAINS TO BE SPECIFIED BY THE ARCHITECT.
- ANY PIPE OR GULLY OR OTHER FITTING OR DUCT PENETRATING THE BASEMENT SLAB OR WALL IS TO BE WATERPROOFED USING HYDROPLUG STRIPS OR PUDDLE FLANGES TO ENSURE A WATER TIGHT JUNCT. CONCRETE SKIRTINGS TO DRAINAGE PIPES AND FITTINGS MAY BE REQUIRED IN CERTAIN CASES - REFER TO DETAILED DRAINAGE DRAWINGS AND RELEVANT STRUCTURAL DETAILS.
- EXISTING FOUNDATIONS AND RETAINING WALLS MUST NOT BE UNDERMINED BY NEW DRAINAGE RUNS UNLESS AGREED IN WRITING WITH THE STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT METHOD STATEMENTS AND TEMPORARY WORKS PROPOSALS TO THE STRUCTURAL ENGINEER FOR COMMENT PRIOR TO COMMENCEMENT OF WORKS.
- ADOPTED SEWER DIVERSION PROPOSALS ARE SUBJECT TO APPROVAL FROM THAMES WATER.



EXISTING T1V/MH44 DETAILS

T1V/MH44	CL 91.80	1240 x 675 mm	DEPTH: 1200
CL 92.15	IL 91.49	640 x 480 mm	DEPTH: 600mm

PROPOSED DEPTH INCREASE: 500mm

THAMES WATER MANHOLE TO BE REBUILT TO SUIT NEW EXTERNAL LEGS AND ALLOW OUTLET PIPE TO PASS BELOW FOUNDATIONS. EXISTING 1500 SEWER TO ENTER VIA EXTERNAL BACKDROP. EXISTING 1500 OUTLET PIPE REMOVED AND REPLACED WITH 2250 PIPE TO MAINTAIN SEWER CAPACITY.

ALL PROPOSALS SUBJECT TO THAMES WATER APPROVAL

SURFACE WATER DRAINAGE STRATEGY

TOTAL EXISTING HARDSTANDING AREA: 35m²
TOTAL PROPOSED HARDSTANDING AREA: 350m²
INCREASE IN TOTAL HARDSTANDING AREA: 315m²

THE INCREASE IN HARDSTANDING AREA IS MITIGATED BY THE SUDS PROPOSALS:

- 60m² OF GREEN ROOF AREA

THE RETAINING WALL ALONG THE NORTHERN PERIMETER OF THE STRUCTURE WILL BE PROTECTED FROM SURFACE WATER RUNOFF FROM OUTSIDE THE SITE BY A REAR-SURFACE DRAINAGE SYSTEM. THIS SYSTEM WILL DIRECT THE RUNOFF TO THE GARDEN WHERE IT WILL BRICATE VIA PERFORATED PIPES.

elliottwood
Elliot Wood Partnership Ltd
Winbladen - Central London - Nottingham
Consulting Structural and Civil Engineers
Tel: (020) 7499 5588; www.elliottwood.co.uk

Project: No. 4, The Hexagon
London, N6 6HR

Drawing title: Proposed Below Ground Drainage Strategy
Lower Ground Floor

project no.	2150655	drawing status	Preliminary
collaborator	00	zone	L-01
date	June 2016	sheet no.	5000
scale	1:100 @ A1, 1:200 @ A3	revision	P2

NOT FOR CONSTRUCTION

PT 1 (03/02/16)	CSB	From Commission of permeable paving		
PT 2 (03/02/16)	CSB	From Preliminary Issue		
Rev	date	by	chm	description