



KEY
 SS = STUB STACK
 SG = TRAPPED SHOWER GULLY
 G = TRAPPED FLOOR GULLY

NOTES
 UNLESS STATED OTHERWISE, THIS DRAWING IS TO BE REFERRED TO FOR SERVICES WORKS ONLY.

THE CONTRACTOR IS TO CHECK ALL DIMENSIONS AND EXISTING AND PROPOSED LEVELS PRIOR TO THE START OF WORKS, AND ANY ERRORS REPORTED TO THE ENGINEERS.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTS AND STRUCTURAL ENGINEERS DRAWINGS.

- NOTES
1. THE CONTRACTOR MUST CHECK THE SIZE, LOCATION AND LEVELS OF ALL DRAINAGE OUTFALLS PRIOR TO CONSTRUCTION OF ANY DRAINAGE UNLESS OTHERWISE AGREED, TO ENSURE THE PROPOSED DESIGN MAY BE ACHIEVED.
 2. ALL PRIVATE DRAINAGE WORKS TO BE IN ACCORDANCE WITH PART H OF THE CURRENT BUILDING REGULATIONS AND BS EN 752.
 3. ALL ADAPTABLE DRAINAGE WORKS ARE TO BE IN ACCORDANCE WITH SEWERS FOR ADOPTION AND THE REQUIREMENTS OF THAMES WATER.
 4. ALL DRAINAGE CONNECTIONS TO THE PUBLIC SEWER NETWORK ARE SUBJECT TO THE APPROVAL OF THAMES WATER UNDER SECTION 106 OF THE WATER INDUSTRY ACT AND SUBJECT TO ANY CONDITIONS THEY MAY APPLY.
 5. ALL DRAINAGE CONNECTIONS TO THE PUBLIC SEWER ARE TO BE INSPECTED BY THAMES WATER AS REQUIRED.
 6. ALL ADAPTABLE DRAINAGE TO BE EITHER:
 A. CONCRETE PIPES AND FITTINGS WITH FLEXIBLE JOINTS COMPLYING WITH THE RELEVANT REQUIREMENTS OF BS EN 1916 AND BS 5911.
 B. VITRIFIED CLAY PIPES AND FITTINGS WITH FLEXIBLE MECHANICAL JOINTS COMPLYING WITH THE REQUIREMENTS OF BS EN 295 AND BS 65 (SURFACE WATER ONLY).
 C. DUCTILE IRON PIPES, FITTINGS AND JOINTS COMPLYING WITH THE RELEVANT PROVISIONS OF BS EN 598.
 7. ALL PRIVATE DRAINAGE TO BE EITHER:
 A. CONCRETE PIPES AND FITTINGS WITH FLEXIBLE JOINTS COMPLYING WITH THE RELEVANT REQUIREMENTS OF BS EN 1916 AND BS 5911.
 B. VITRIFIED CLAY PIPES AND FITTINGS WITH FLEXIBLE MECHANICAL JOINTS COMPLYING WITH THE REQUIREMENTS OF BS EN 295 AND BS 65 (SURFACE WATER ONLY).
 C. DUCTILE IRON PIPES, FITTINGS AND JOINTS COMPLYING WITH THE RELEVANT PROVISIONS OF BS EN 598.
 8. ALL DRAINAGE BENEATH BUILDINGS AND CAST INTO FOUNDATIONS TO BE DUCTILE IRON PIPES, FITTINGS AND JOINTS COMPLYING WITH THE RELEVANT CLAUSES OF BS 4460 AND BS EN 1401-1.
 9. TRANSITION IN PIPE MATERIALS TO BE MADE AT NEAREST CHAMBER OR ROCKER PIPE WHERE IT PASSES THROUGH FOUNDATIONS.
 10. ALL FWP LOCATIONS AND SIZES TO BE VERIFIED AND SET OUT BY THE ARCHITECT AND M&E CONSULTANT.
 11. ALL FOUL DRAINAGE 'POP-UP' LOCATIONS AND SIZES TO BE VERIFIED AND SET OUT BY THE ARCHITECT AND M&E CONSULTANT.
 12. ALL FOUL GULLY LOCATIONS AND SIZES TO BE VERIFIED AND SET OUT BY THE ARCHITECT AND M&E CONSULTANT.
 13. ALL FOUL DRAINAGE FLOW RATES ARE TO BE PROVIDED BY THE M&E CONSULTANT TO VERIFY SIZE OF BELOW GROUND DRAINAGE.
 14. WHERE DRAINAGE LATERALS CONNECT DIRECT TO THE BELOW GROUND SYSTEM VIA PERFORMED JUNCTIONS RODDING ACCESS IS TO BE PROVIDED. THIS IS TO BE VIA REMOVABLE TRAPS IN GULLIES OR ACCESS PIPES IN VERTICAL PIPEWORK ABOVE GROUND.
 15. WHERE FOUL SURFACE WATER OR OTHER DRAINAGE PIPES CROSS AND THERE IS LESS THAN 100MM OF CLEARANCE SHORT LENGTHS OF BOTH RUNS ARE TO BE ENCASED IN CONCRETE.
 16. FOR MANHOLE SCHEDULES REFER TO CNM DRAWING 150-CNM-Z0-ZZ-DR-P-1011
 17. FOR CONNECTION DETAILS TO PUBLIC SEWER REFER TO CNM DRAWING 150-CNM-Z0-ZZ-DR-P-1012

Rev	Revision Note	Revision Date	Drawn By	Checked By
P3.1	ISSUED FOR STAGE 4	13.07.18	DTE	MDF
P2.01	ISSUED FOR STAGE 3	25.08.17	DTE	MDF
P2	PRELIMINARY STAGE 3 - ISSUED FOR COSTING	16.09.16	DTE	MLS
P1	PRELIMINARY ISSUE - WORK IN PROGRESS	02.09.16	DTE	MLS

Contract
150 HOLBORN
PROPOSED BASEMENT DRAINAGE LAYOUT
 Architect
PERKINS + WILL

cnm Clarke Nicholls Marcel
 CIVIL & STRUCTURAL ENGINEERS
 Glen House, 22-24 Glenhorne Road
 Hammersmith, London W6 0NG
 t +44 (0)20 8748 8611
 f +44 (0)20 3741 9171
 www.clarke nicholls marcel.com

CDE Status		CDE Code	
STAGE 4 - FOR TENDER		D2	
Drawn By	DTE	Checked By	MLS
Project	1036010	Scale @ A1	1:125
Drawing No. 150-CNM-Z0-B1-DR-P-1001			
P1	P2	P2.01	P3.1