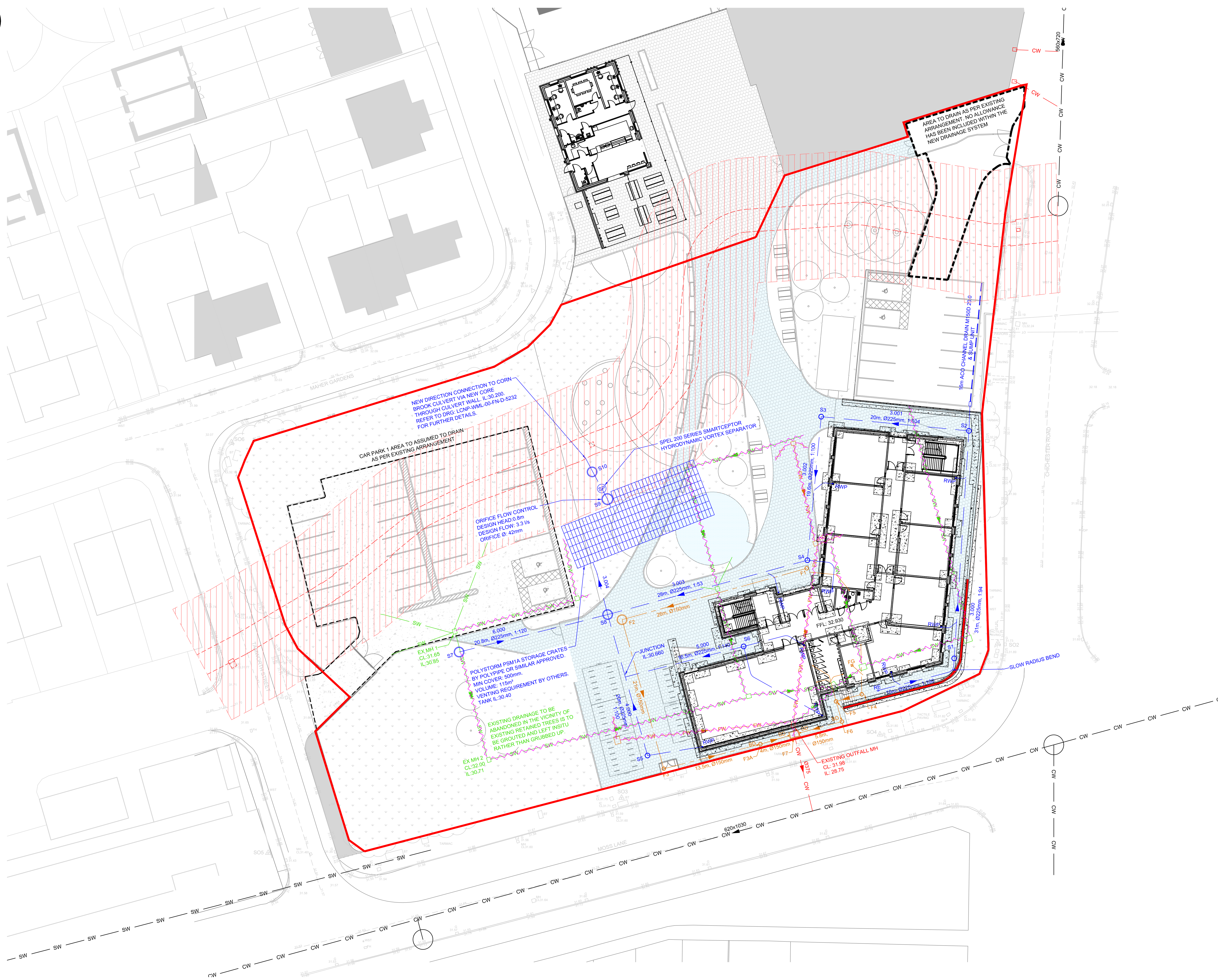
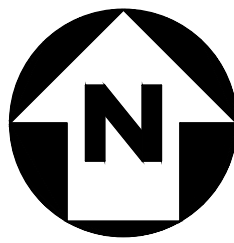




LEGEND

— SW — SW — SW —	EXISTING ADOPTED SURFACE WATER SEWER
— CW — CW — CW —	EXISTING ADOPTED COMBINED WATER SEWER
— FW — FW — FW —	EXISTING PRIVATE SURFACE WATER DRAIN
— FW — FW — FW —	EXISTING PRIVATE FOUL WATER DRAIN
— CW — CW — CW —	EXISTING PRIVATE COMBINED WATER DRAIN
— — — — —	EXISTING PRIVATE DRAINAGE TO BE REMOVED
— — — — —	EXISTING SURFACE WATER CULVERT
— — — — —	EXISTING SURFACE WATER CULVERT - 7m EASEMENT
— — — — —	PROPOSED PRIVATE SURFACE WATER SEWER
— — — — —	PROPOSED PRIVATE WASTE WATER SEWER
— — — — —	PROPOSED ATTENUATION TANK
— — — — —	PROPOSED PERMEABLE SURFACING
— — — — —	DENOTES RETAINING WALL
— — — — —	SITE BOUNDARY

DRAINAGE NOTES

REFERENCE SHOULD BE MADE TO THE DRAINAGE STRATEGY DOCUMENT REF: 10539-WML-00-XX-RP-C-0001.

THE EXISTING DRAINAGE SHOWN ON THIS DRAWING IS BASED UPON THE UNITED UTILITIES (U)SEWER RECORDS AND EXISTING DRAINAGE SITE PLAN PRODUCED FOR THE ADJACENT DEVELOPMENT WORKS AT TAINWORTH STREET.

THE LOCATION OF THE EXISTING SURFACE WATER CULVERT IS SHOWN INDICATIVE ONLY AND IS BASED UPON SURVEY INFORMATION UNDERTAKEN BY MALCOLM HUGHES CHARTERED SURVEYORS- APRIL 2023.

ALL DRAINAGE LEVELS SHOWN ARE FOR INFORMATION PURPOSES ONLY AND ARE BASED UPON THE EXISTING TOPOGRAPHICAL SURVEY AND PROPOSED FINISHED LEVELS PROVIDED BY 10 ARCHITECTS.

THE ARCHITECT IS RESPONSIBLE FOR CONFIRMING ALL MANHOLE COVER LEVELS PRIOR TO CONSTRUCTION.

THE PROPOSED DRAINAGE DESIGN INFORMATION SHOWN ON THIS DRAWING IS FOR INFORMATION PURPOSES ONLY AND IS SUBJECT TO DETAILED DESIGN.

RAIN WATER PIPES AND SLAB PENETRATIONS ARE SHOWN INDICATIVE ONLY. ARCHITECT/MEP ENGINEER IS TO CONFIRM FINAL SETTING OUT INFORMATION PRIOR TO CONSTRUCTION.

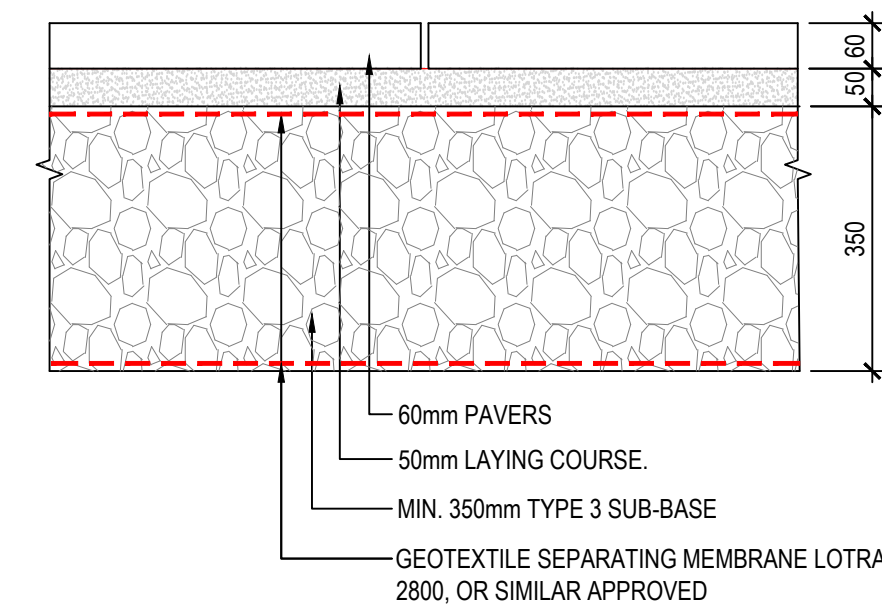
(BD) DENOTES EXTERNAL BACKDROP

(CP) DENOTES 'CATCH PIT' WITH 500mm DEEP SUMP BELOW OUTGOING INVERT LEVEL

(FC) DENOTES FLOW CONTROL CHAMBER

(PVD) DENOTES PERMAVOID DIFFUSER UNITS

(VC) DENOTES VENTED COVER



ALL WORKS TO BE IN ACCORDANCE WITH BS7533-3 GENERALLY.

PAVER: THICKNESS 60mm

MATERIAL: AS SPECIFIED BY ARCHITECT

LAYING COURSE: THICKNESS 50mm

MATERIAL: IN ACCORDANCE WITH Q241455A

ROADBASE: NON REQUIRED

MATERIAL: NA

GRANULAR SUB-BASE AS SECTION Q20 OF WML SPECIFICATION THICKNESS 350 mm (SHW803 TYPE 3 GSB - MINIMUM 30% VOID RATIO).

JOINTING: NARROW JOINTS TO ARCHITECTS DETAIL

MATERIAL: IN ACCORDANCE WITH Q24510A

LAYING PATTERN: AS SPECIFIED BY ARCHITECT.

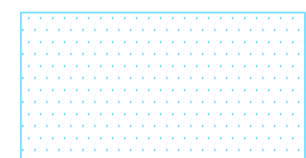
ASSUMED CBR: 5% (SUBJECT TO CONFIRMATION OF CBR TESTS BY SITE INVESTIGATION SPECIALIST AFTER SITE STRIP)

ADDITIONAL FILLING REQUIRED TO RAISE SURFACE LEVEL FOLLOWING SITE STRIP TO BE IN ACCORDANCE WITH Q20, (SH803 TYPE 3 GSB).

ALL MATERIAL WITHIN 450MM OF SURFACE LEVEL TO BE NON-FROST SUSCEPTIBLE. IF ENCOUNTERED NOTIFY WML. REPLACEMENT FILL TO BE GRADE #F2 OR #F3 UNLESS AGREED OTHERWISE.

TYPICAL DETAIL PERMEABLE BRICK / BLOCK PAVING TO FOOTPATHS

(SCALE 1:10)



GENERAL NOTES

DO NOT SCALE FROM THIS DRAWING WORK TO FIGURED DIMENSIONS ONLY.

NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.

THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH AND SAFETY PLAN.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH WML DRAINAGE DETAIL DRAWINGS FOR DETAILS OF MATERIALS AND WORKMANSHIP REFER TO THE SPECIFICATION.

THE CONTRACTOR IS RESPONSIBLE FOR CHECKING INVERT LEVELS AND POSITIONS OF ALL EXISTING DRAINS, SEWERS, INSPECTION CHAMBERS AND MANHOLES SHOWN ON THIS DRAWING IMMEDIATELY ON SITE ESTABLISHMENT. ANY DISCREPANCIES MUST BE REPORTED TO WML CONSULTING IMMEDIATELY.

WHERE THE NEW SITE DRAINAGE CONNECTS IN TO EXISTING MANHOLES IN CARRIAGEWAYS AND/OR EXISTING ADOPTED SEWERS, THE CONTRACTOR IS RESPONSIBLE FOR ALL LIAISON WITH THE RELEVANT STATUTORY UNDERTAKER AND LOCAL AUTHORITY WITH REGARD TO ROAD CLOSURES, TRAFFIC MANAGEMENT, PERMITS TO WORK, SUBMISSION OF CONTRACTORS METHOD STATEMENTS AND RISK ASSESSMENTS AND OTHER DOCUMENTATION AND CORRESPONDENCE ASSOCIATED WITH THE SITE STAGE (PART 2) ELEMENT OF THE WORKS.

ROCKER PIPES TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.

PROVIDE ADEQUATE PROTECTION TO MAINTAIN MINIMUM COVER TO DRAINS DURING THE CONSTRUCTION PERIOD.

COVER LEVELS ON THIS DRAWING ARE FOR INFORMATION PURPOSES ONLY.

THE LAYOUT OF DRAINAGE ON THIS DRAWING IS FOR INFORMATION PURPOSES ONLY.

U.N.O SURFACE WATER DRAINAGE PIPES OVER Ø100mm TO BE TWIN WALLED STRUCTURED PLASTIC APPROVED BY THE ENGINEER.

U.N.O FOUL WATER DRAINAGE PIPES TO BE SUPERSLEVE VITRIFIED CLAY PIPES OR SIMILAR.

ALL COVERS AND RODDING ACCESS POINTS TO BE SEALED AND SCREWED TIGHT.

ALL INTERNAL MANHOLE COVERS TO BE DOUBLE SEALED, LOOKABLE AND RECESSED TO ACCEPT FLOOR FINISHES WHERE APPLICABLE.

SETTING OUT OF ALL INTERNAL CULLYPLUMBING CONNECTIONS TO BE CO-ORDINATED BETWEEN THE SERVICE ENGINEERS AND THE ARCHITECT.

ALL INTERNAL GULLIES, PLUMBING CONNECTIONS, SOIL STACKS, SVPS AND ALL OTHER CONNECTIONS OF FOUL AND SURFACE WATER DRAINS TO BELOW GROUND TO BE FITTED WITH ACCESSIBLE RODDING POINTS ABOVE S8/8 LEVEL.

ALL SURFACE WATER CONNECTIONS TO BE 100mm DIAMETER AT MINIMUM FALLS OF 1:80 UNLESS NOTED OTHERWISE.

ALL FOUL WATER CONNECTIONS TO BE 100mm DIAMETER AT MINIMUM FALLS OF 1:40 UNLESS NOTED OTHERWISE.

ALL CONNECTIONS TO BE MADE IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS.

ALL PIPEWORK TO BE INSTALLED WITH SOFFITS LEVEL (E.G. AT CHANGES IN PIPE SIZE) U.N.O.

FOR DETAILS OF GREASE TRAP/MACERATOR REQUIREMENTS ASSOCIATED WITH KITCHENS REFER TO SERVICE ENGINEER.

ON COMPLETION OF DRAINAGE WORKS, THE NEW DRAINAGE SYSTEM IS TO BE THOROUGHLY CLEANED AND A CCTV SURVEY CARRIED OUT TO CONFIRM NO CONSTRUCTION DEBRIS OR BLOCKAGES REMAIN.

CONNECTIONS TO CARRIER DRAINS ARE TO BE 'Y' JUNCTIONS.

ALL PRIVATE DRAINAGE IS TO COMPLY WITH BS EN 752 AND BUILDING REGS. PART H.

PIPE GRADIENTS ARE INDICATIVE MINIMUMS.

SURFACE CHANNEL DRAINS TO BE ACO MULTIDRAIN OR SIMILAR.

MANHOLES:

ALL PROPOSED NEW MANHOLES TO BE PRECAST RING MANHOLES TYPE B UNLESS NOTED OTHERWISE. INTERNAL DIAMETERS OF MANHOLES TO BE 1050mm WHERE DEPTH TO PIPE SOFFIT IS LESS THAN 1.5m, AND 1200mm Ø ELSEWHERE UNLESS NOTED OTHERWISE. IC - DENOTES POLYPROPYLENE INSPECTION CHAMBER BY HEPWORTHY OR SIMILAR APPROVED INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

MANHOLE COVERS:

CARRIAGEWAYS GENERAL - EN124 CLASS D400

CARRIAGEWAYS WITHIN 0.5m OF KERB - EN124 CLASS C250

SLOW MOVING HGV (B8) - EN 124 CLASS B125 SLOW MOVING

GLV (T10), EN 124 CLASS B125 SLOW MOVING PRIVATE CARS - EN124 CLASS B125.

INTERNAL - JONES OF OSWESTRY - SUPRASTEEL DOUBLE SEALED WITH NEOPRENE GASKET AND COVER GREASE OR SIMILAR APPROVED.

REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF ANY MANHOLE COVERS WHICH REQUIRE INSET PANELS.

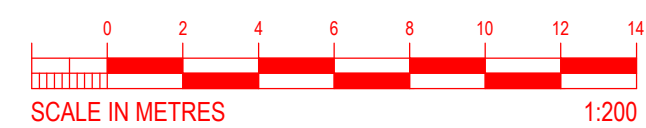
FINAL CONSTRUCTION DRAWING

WML FINAL CONSTRUCTION DRAWING INCLUDING ANY AMENDMENTS / AS-BUILT INFORMATION RECEIVED FROM THE CONTRACTOR.

SURFACE WATER MANHOLE SCHEDULE									
MH REF	COVER LEVEL	INVERT LEVEL (IN)	INVERT LEVEL (OUT)	MAIN PIPE Ø (IN)	MAIN PIPE Ø (OUT)	MH TYPE	MANHOLE Ø	COVER TYPE	COMMENTS
S1	32.780	31.883	31.883	Ø225mm	Ø225mm	PPIC	Ø600mm	B125	WAVIN 600 RANGE OR SIMILAR APPROVED.
S2	32.780	31.644	31.589	Ø150mm	Ø225mm	PPIC	Ø600mm	B125	WAVIN 600 RANGE OR SIMILAR APPROVED. INCOMING Ø150mm CHANNEL DRAIN CONNECTION.
S3	32.500	31.323	31.323	Ø225mm	Ø225mm	PPIC	Ø600mm	B125	WAVIN 600 RANGE OR SIMILAR APPROVED.
S4	32.780	31.150	31.150	Ø225mm	Ø225mm	PPIC	Ø600mm	B125	WAVIN 600 RANGE OR SIMILAR APPROVED.
S5	31.750	30.820	30.775	Ø150mm	Ø225mm	PPIC	Ø600mm	B125	WAVIN 600 RANGE OR SIMILAR APPROVED. INCOMING Ø150mm RWP CONNECTION.
S6	32.930	32.315	32.240	Ø150mm	Ø225mm	PPIC	Ø600mm	B125	WAVIN 600 RANGE OR SIMILAR APPROVED. 2No. INCOMING Ø150mm RWP CONNECTIONS.
S7	31.800	30.898	30.823	Ø150mm	Ø225mm	CATCH PIT	Ø1200mm	B125	COVER & FRAME TO HAVE Ø75xØ75 CLEAR OPENING. CATCH PIT SUMP IL: 30.250.
S8	32.500	30.567	30.492	Ø225mm	Ø300mm	CATCH PIT	Ø1200mm	B125	COVER & FRAME TO HAVE Ø75xØ75 CLEAR OPENING. CATCH PIT SUMP IL: 30.000.
S9	31.800	30.380	30.380	Ø300mm	Ø150mm	FLOW CONTROL	Ø1200mm	B125	COVER & FRAME TO HAVE Ø75xØ75 CLEAR OPENING. Ø42mm ORIFICE PLATE FITTED TO OUTGOING PIPE.
SP	31.800	30.315	30.315	Ø150mm	Ø150mm	SPEL SMARTCEPTOR	1200x750	B125	SPEL 200 SERIES SMARTCEPTOR HYDRODYNAMIC VORTEX SEPARATOR.
S10	31.800	30.247	30.247	Ø150mm	Ø150mm	NON-RETURN VALVE	1050mm	B125	1.5m DEEP, Ø1050mm NON-RETURN VALVE CHAMBER BY FREEFLOSH OR SIMILAR.

FOUL WATER MANHOLE SCHEDULE									
MH REF	COVER LEVEL	INVERT LEVEL (IN)	INVERT LEVEL (OUT)	MAIN PIPE Ø (IN)	MAIN PIPE Ø (OUT)	MH TYPE	DIAMETER	COVER TYPE	COMMENTS
F1	32.930	31.952	31.902	Ø100mm	Ø150mm	PPIC	Ø450mm	B125	WAVIN 450 RANGE OR SIMILAR APPROVED. INCOMING Ø100mm SOIL CONNECTION.
F2	32.500	31.555	31.555	Ø150mm	Ø150mm	PPIC	Ø1200mm	B125	COVER & FRAME TO HAVE Ø75xØ75 CLEAR OPENING.
F3	31.760	31.094	31.094	Ø150mm	Ø150mm	PPIC	Ø450mm	B125	WAVIN 450 RANGE OR SIMILAR APPROVED.
F3A	31.830	30.981	30.481	Ø150mm	Ø150mm	PPIC	Ø450mm	B125	WAVIN 450 RANGE OR SIMILAR APPROVED. EXTERNAL BACKDROP IL:31.000.
F4	32.780	31.449	31.599	Ø100mm	Ø150mm	PPIC	Ø450mm	B125	WAVIN 450 RANGE OR SIMILAR APPROVED. INCOMING Ø100mm SOIL CONNECTION.
F5	31.830	31.255	31.255	Ø100mm	Ø150mm	PPIC	Ø450mm	B125	WAVIN 450 RANGE OR SIMILAR APPROVED. INCOMING Ø100mm SOIL CONNECTION.
F6	31.830	30.863	30.363	Ø150mm	Ø150mm	PPIC	Ø450mm	B125	WAVIN 450 RANGE OR SIMILAR APPROVED. EXTERNAL BACKDROP IL:30.850.
F7	31.830	30.290	28.750	Ø150mm	Ø375mm	PCC	1200x750mm	B125	COVER & FRAME TO HAVE 1200x750 CLEAR OPENING. 2No. EXTERNAL BACKDROPS IL:30.250.

COORDINATES			
POINTS	EASTING	NORTHING	
SP	383285.849	395997.852	
F01	383313.857	395997.084	
F02	383288.757	395990.102	
F03	383294.429	395999.839	
F04	383321.343	395999.951	
F05	383317.849	395998.989	
F06	383318.64	395996.243	
F07	383312.165	395964.42	
F33	383307.572	395993.177	
S01	383333.903	395974.838	
S02	383335.91	396005.77	
S03	383315.822	396007.704	
S04	383313.952	395988.18	
S05	383292.22	395961.63	
S06	383305.285	395976.47	
S07	383266.606	395975.7	
S08	383286.804	395990.792	
S09	383286.775	395996.489	
S10	383284.696	396000.194	



Drawn By	Originator	Volume	Level	Type	Role	Number	Rev
LCNP	- WML - 00 - FN - DR -	D	5200	AB2			