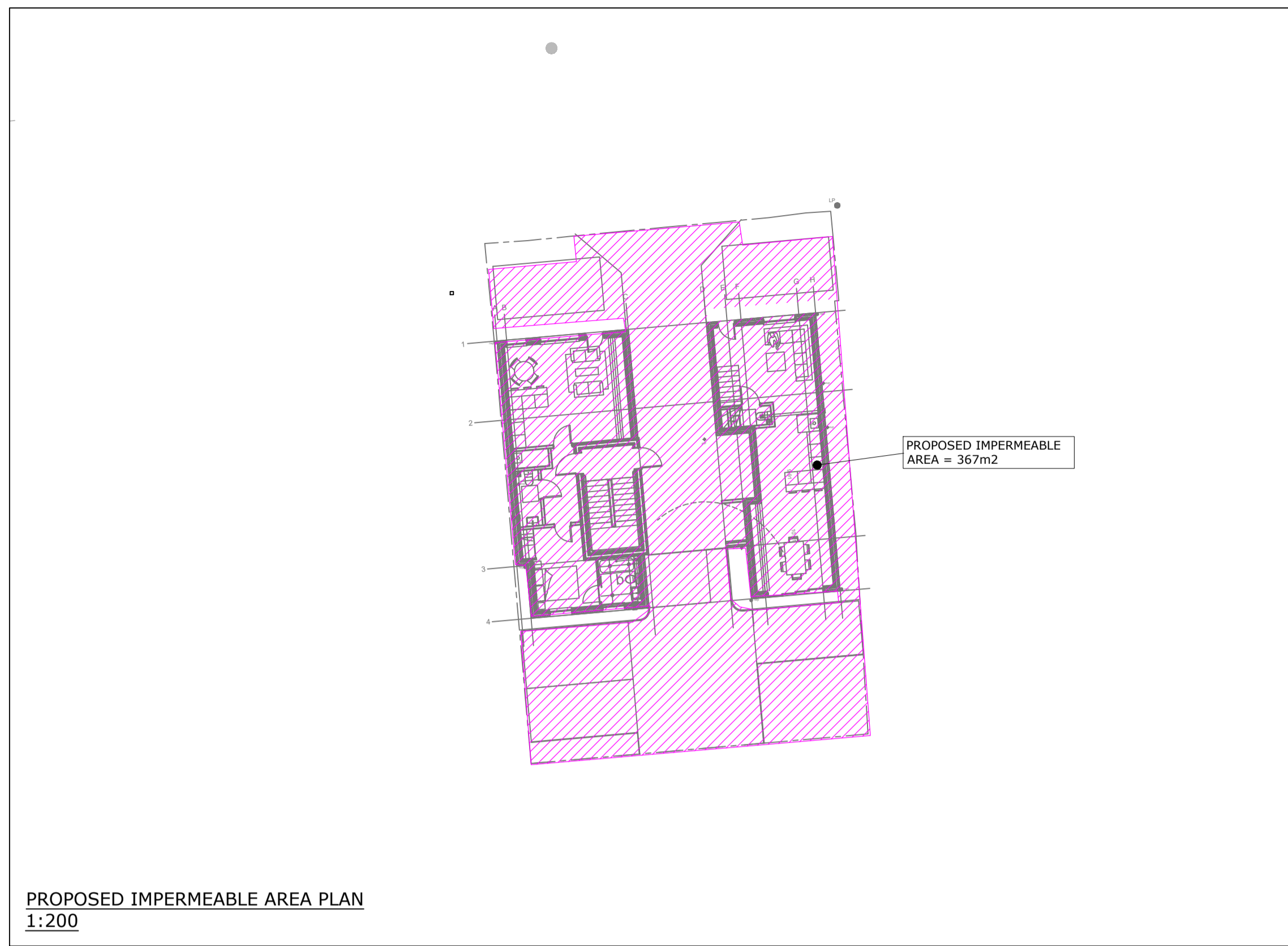
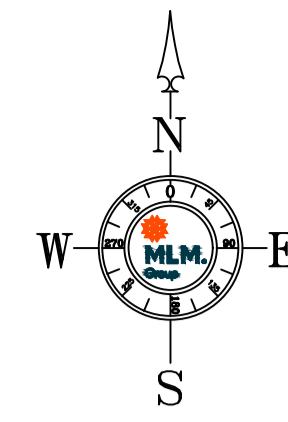




EXISTING IMPERMEABLE AREA PLAN
1:200



PROPOSED IMPERMEABLE AREA PLAN
1:200



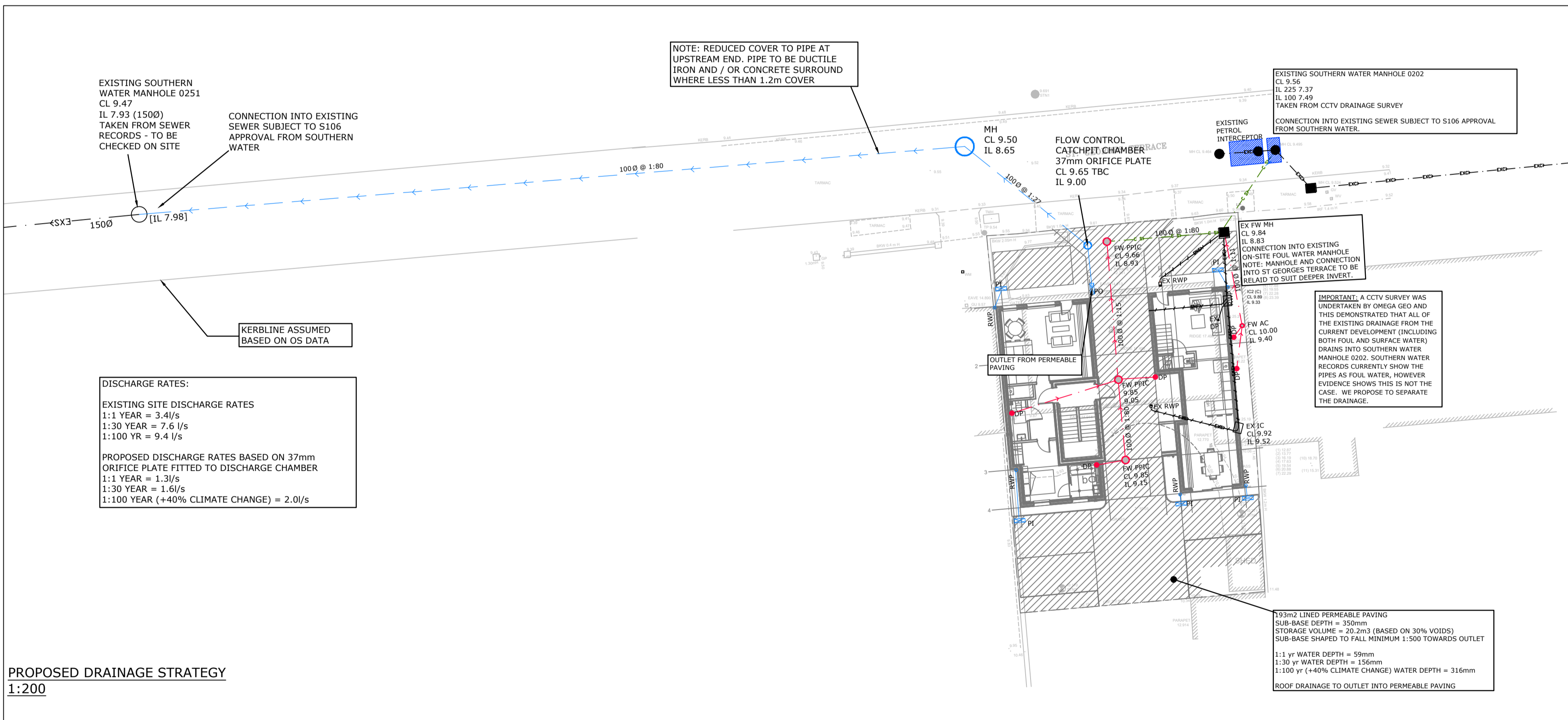
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS', ARCHITECTS' AND SPECIALISTS' DRAWINGS AND THE SPECIFICATION.
DESIGN INFORMATION FROM OTHER DISCIPLINES SHOWN ON THIS DRAWING IS FOR COORDINATION PURPOSES ONLY
DO NOT SCALE FROM THIS DRAWING MANUALLY OR ELECTRONICALLY. WRITTEN PERMISSION MUST BE OBTAINED FROM MLM PRIOR TO SCALING ELECTRONICALLY OR USING THIS ELECTRONIC FILE.

NOTES

CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 DESIGNERS RISK INFORMATION

IN ACCORDANCE WITH THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS THE HAZARDS AND RISKS ASSOCIATED WITH CONSTRUCTING MAINTAINING AND CLEANING THE STRUCTURE HAVE BEEN ASSESSED.
THE DESIGN SOLUTION HAS MITIGATED THESE WHERE POSSIBLE, HOWEVER, RESIDUAL/ UNUSUAL HAZARDS OR RISKS IDENTIFIED HAVE BEEN RECORDED IN THE DESIGNERS RISK INFORMATION SPECIFIC TO THE PROJECT.
ASSUMPTIONS MADE ABOUT THE METHOD OF CONSTRUCTION, MAINTENANCE AND DEMOLITION HAVE BEEN STATED WHERE THESE FORM AN INTEGRAL PART OF MANAGING THE RISKS AND HAZARDS, HOWEVER, THIS DOES NOT RESTRICT THE CONTRACTOR TO THESE METHODS ALONE.
IT IS UNDERSTOOD THAT A COMPETENT CONTRACTOR WILL CARRY OUT CONSTRUCTION, MAINTENANCE AND DEMOLITION WORK IN ACCORDANCE WITH RECOGNISED GOOD INDUSTRY PRACTICE.
1. ASBESTOS: THE CONTRACTOR SHOULD ENSURE THAT AN APPROPRIATE ASBESTOS SURVEY IS UNDERTAKEN PRIOR TO ANY DEMOLITION AND ANY REMEDIAL ACTIONS COMPLETED.
2. BURIED SERVICES: THE CONTRACTOR SHOULD REFER TO ALL CURRENT SERVICES INFORMATION COLLECTED BY THE PRINCIPAL DESIGNER AND IS ADVISED TO UNDERTAKE HIS OWN ON-SITE SEARCHES/SURVEYS TO CHECK LOCATIONS OF THESE AND FOR ANY FURTHER SERVICES. ALL SERVICES IDENTIFIED SHOULD BE RECORDED AND MARKED OUT ON SITE.

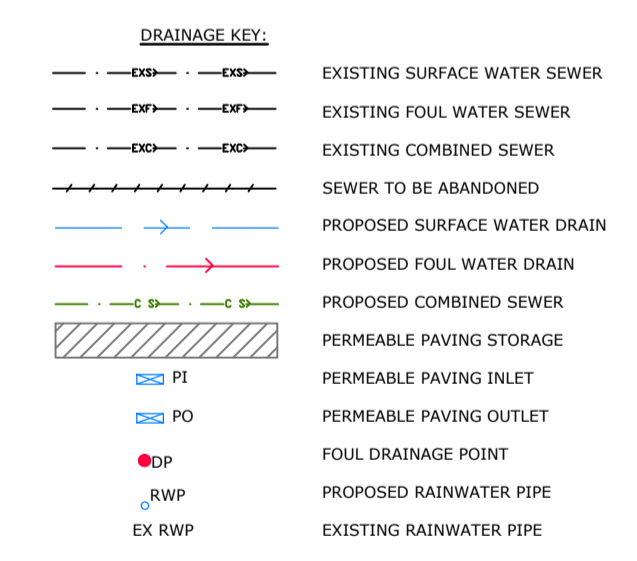
THE ABOVE NOTES REFER SPECIFICALLY TO THE INFORMATION SHOWN ON THIS DRAWING AS DESIGNERS.
PLEASE REFER TO THE DESIGNERS RISK INFORMATION FOR FURTHER CLARIFICATION AND THOSE RELEVANT TO OTHER DISCIPLINES.



PROPOSED DRAINAGE STRATEGY
1:200

DISCHARGE RATES:
EXISTING SITE DISCHARGE RATES
1:1 YEAR = 3.4/s
1:30 YEAR = 7.6 l/s
1:100 YR = 9.4 l/s
PROPOSED DISCHARGE RATES BASED ON 37mm ORIFICE PLATE FITTED TO DISCHARGE CHAMBER
1:1 YEAR = 1.3/s
1:30 YEAR = 1.6/s
1:100 YEAR (+40% CLIMATE CHANGE) = 2.0/s

DESIGN NOTES:
1. IMPORTANT: A CCTV SURVEY WAS UNDERTAKEN BY OMEGAGEO AND THIS DEMONSTRATED THAT ALL OF THE EXISTING DRAINAGE FROM THE CURRENT DEVELOPMENT (INCLUDING BOTH FOUL AND SURFACE WATER) DRAINS INTO SOUTHERN WATER MANHOLE 0202. SOUTHERN WATER RECORDS CURRENTLY SHOW THE PIPES AS FOUL WATER, HOWEVER EVIDENCE SHOWS THIS IS NOT THE CASE. THE PROPOSAL IS TO DRAIN THE SURFACE WATER TO THE PUBLIC SURFACE WATER SEWER THEREFORE REMOVING SURFACE WATER FLOWS FROM THE FOUL SEWER.
2. NOT FOR CONSTRUCTION. SUBJECT TO DETAILED DESIGN.
3. CONNECTION INTO EXISTING SEWERS SUBJECT TO APPROVAL FROM WATER AUTHORITY.
4. DRAINAGE SUBJECT TO DETAILED LEVEL DESIGN.
5. PROPOSED DISCHARGE RATES TO BE RESTRICTED TO BE NO GREATER THAN PRE-DEVELOPED SITE.
6. COVER LEVELS SHOWN INDICATIVELY ONLY SUBJECT TO DETAILED DESIGN.
7. ADDITIONAL CHAMBERS MAY BE REQUIRED TO SUIT CONNECTION LOCATIONS ON SITE.
8. SVP / RWP LOCATIONS SUBJECT TO DETAILED DESIGN.



- DRAINAGE NOTES**
- ALL PRIVATE DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH 'THE BUILDING REGULATIONS APPROVED DOCUMENT H' AND BRITISH STANDARD EN 752.
 - PRIOR TO COMMENCEMENT OF THE WORKS THE CONTRACTOR SHALL LIAISE WITH ALL RELEVANT AUTHORITIES TO OBTAIN THEIR REQUIREMENTS AND TO OBTAIN APPROVAL FOR HIS METHOD OF WORKING AND WHERE APPROPRIATE HIS INTENDED CHOICE OF MATERIALS.
 - REFER TO SITE SURVEY FOR DETAILS OF EXISTING SITE CONDITIONS AND BENCH MARKS.
 - PRIOR TO COMMENCEMENT OF THE WORKS THE CONTRACTOR SHALL LIAISE WITH ALL RELEVANT AUTHORITIES TO LOCATE, PROTECT AND WHERE NECESSARY DIVERT ALL EXISTING SERVICES AFFECTED BY THE WORKS.
 - ALL EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER.
 - THE CONTRACTOR SHALL ENSURE THE STABILITY OF ALL EXCAVATIONS IS MAINTAINED AT ALL TIMES.
 - ALL WORKS IN, OR ADJACENT TO, THE PUBLIC HIGHWAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HIGHWAY AUTHORITY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LICENSES REQUIRED TO CARRY OUT THE WORKS WITHIN THE PUBLIC HIGHWAY.
 - ALL WORKS TO NEW OR EXISTING PUBLIC SEWERS SHALL BE TO THE APPROVAL OF THE WATER AUTHORITY AND IN ACCORDANCE WITH 'SEWERS FOR ADOPTION'-LATEST EDITION.
 - PRIOR TO COMMENCEMENT OF THE WORKS ALL DRAINAGE OUTFALL POINTS, WHETHER EXISTING SEWER, DRAIN OR WATERCOURSE, SHALL BE VERIFIED ON SITE BY THE CONTRACTOR. IF THE OUTFALL POINT IS FOUND TO BE HIGHER OR SIGNIFICANTLY LOWER THAN SHOWN ON THE DRAWINGS THEN THE CONTRACT ADMINISTRATOR SHALL BE NOTIFIED IMMEDIATELY. (SIGNIFICANT REDESIGN OF DRAINAGE AND LEVELS MAY BE NECESSARY). PRIOR TO COMMENCEMENT OF CONSTRUCTION ON-SITE THE CONTRACTOR SHALL INSTALL ALL OFF-SITE DRAINAGE CONNECTIONS, OR SATISFY HIMSELF THAT THERE ARE NO OBSTRUCTIONS OR OTHER REASONS WHY, THE DRAIN CONNECTIONS CAN NOT BE MADE.
 - ALL COVER LEVELS SHOWN ON THIS DRAWING ARE APPROXIMATE. EXACT LEVELS OF NEW COVERS AND FRAMES TO BE DETERMINED ON SITE TO MATCH LEVEL AND PROFILE OF FINISHED SURFACE.
 - THE CONSTRUCTION OF ALL EXISTING CHAMBERS, GULLIES ETC. AND THEIR COVERS, GRATINGS AND FRAMES TO BE IMPROVED, REPAIRED OR REPLACED AS NECESSARY TO SUIT THEIR LOCATION WITHIN THE FINISHED DEVELOPMENT.
 - ALL COVERS, GRATINGS AND FRAMES TO CHAMBERS, GULLIES, CHANNELS ETC. SHALL BE OF THE CORRECT LOAD CLASS TO SUIT THEIR LOCATION.
- LOAD CLASS A15 PEDESTRIAN AREAS (NOT ACCESSIBLE BY VEHICLES)
- LOAD CLASS B125 PRIVATE DRIVES
- LOAD CLASS C250 BASEMENTS / PARKING BAYS / LIGHTLY TRAFFICKED ROADS.
- LOAD CLASS D400 MAIN ROADS
GRATINGS IN PEDESTRIAN AREAS TO BE DESIGNED FOR PEDESTRIAN USE.
 - ALL EXISTING CHAMBERS, GULLIES CHANNELS, PIPES AND OTHER DRAINAGE APPARATUS SHALL BE PROTECTED FROM DAMAGE DURING THE WORKS. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT NO MATERIAL ENTERS THE DRAINS (OTHER THAN THAT WHICH THEY ARE DESIGNED TO CARRY).
 - REFER TO SITE INVESTIGATION REPORT FOR EXISTING GROUND CONDITIONS AND ANY SPECIAL REQUIREMENTS FOR BURIED CONCRETE (SPECIAL REQUIREMENTS FOR BURIED CONCRETE SHALL INCLUDE ALL PRE-CAST AND IN-SITU CONCRETE AND MORTARS), WHERE APPROPRIATE REFER TO CONTAMINATION REPORTS FOR DETAILS OF CHEMICALS AFFECTING CHOICE OF MATERIALS AND OTHER ADDITIONAL REQUIREMENTS.
 - ALL PRE-CAST AND IN-SITU CONCRETE AND MORTARS USED IN THE CONSTRUCTION OF FOUL DRAINS AND SEWERS SHALL BE MADE FROM SULPHATE RESISTING CEMENT.
 - UNLESS NOTED OTHERWISE ALL PIPEWORK SHALL BE 100mm DIAMETER LAID TO A FALL OF 1 IN 100 OR STEEPER FOR SURFACE WATER AND 1 IN 40 OR STEEPER FOR FOUL WATER. FOUL DRAINS WITH ONE OR MORE W.C. CONNECTED MAY BE LAID AT 1 IN 80 OR STEEPER. WHERE APPROPRIATE ROAD GULLY CONNECTIONS SHALL BE 150mm DIA AT 1 IN 150 OR STEEPER.
 - UNLESS NOTED OTHERWISE ALL PIPEWORK SHALL BE CONSTRUCTED FROM 'SUPER STRENGTH' VITRIFIED CLAY TO BS 65, BS EN 295 OR UPVC TO BS EN 1201 BEDDED AND BACKFILLED AS PER THE MANUFACTURERS RECOMMENDATIONS AND THE ABOVE LISTED PUBLICATIONS.
 - THE CONTRACTORS ATTENTION IS DRAWN TO DIAGRAMS 7 AND 8 OF 'THE BUILDING REGULATIONS APPROVED DOCUMENT H' SHOWING DETAILS OF DRAINS LAID BELOW AND NEAR TO BUILDINGS, WHERE GROUND BEAMS ARE USED, THEIR LEVEL SHALL BE SET TO AVOID CLASHING WITH DRAIN CONNECTIONS.
 - EXACT LOCATION OF GULLIES TO BE DETERMINED ON SITE TO SUIT LOW POINTS. THE CONTRACTOR SHALL ENSURE THAT ALL FINISHED SURFACE ARE LAID TO FALLS THAT ARE SUFFICIENT FOR ALL SURFACE WATER TO DRAIN WITHOUT SURFACE PONDING.
 - FOR THE EXACT LOCATION OF SOIL PIPES, SUBSTACKS, W.C.'S AND OTHER DRAINAGE CONNECTIONS REFER TO THE LARGE SCALE ARCHITECTURAL BUILDING PLANS.
 - RAINWATER DOWNPIPES THAT DO NOT CONNECT DIRECTLY TO AN ACCESS POINT, SHALL BE FITTED WITH A RODDING ACCESS.
 - ALL DRAINAGE CHANNELS TO BE BY ACO OR SIMILAR AND TO BE OF A TYPE SIZE AND CAPACITY SUITABLE FOR THEIR LOCATION.
 - ACCESS FITTINGS, INSPECTION CHAMBERS AND MANHOLES SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN IN TABLES 11 AND 12 OF 'THE BUILDING REGULATIONS APPROVED DOCUMENT H' AND FROM THE MATERIALS LISTED IN TABLE 14. ACCESS POINTS, INSPECTION CHAMBERS AND MANHOLES SHALL BE CONSTRUCTED FROM PRODUCTS DESIGNED/RATED FOR THE LOCATION IN WHICH THEY ARE TO BE USED. THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS/SUPPLIERS RECOMMENDATIONS.
 - PRIOR TO COMMENCEMENT OF ANY WORKS THE EXISTING DRAINAGE MUST BE TRACED TO ENSURE THAT NO 'LIVE' CONNECTIONS REMAIN. ANY SUCH CONNECTIONS MUST BE REPORTED TO THE CONTRACT ADMINISTRATOR, PRIOR TO DIVERSION INTO THE NEW DRAINS.
 - EXISTING PIPES TO BE ABANDONED SHALL BE BROKEN OUT OR FILLED WITH PFA GROUT. MANHOLES SHALL BE BROKEN OUT AND FILLED WITH COMPACTED GRANULAR MATERIAL.

REV	DATE	REVISION	MADE	CHK	APP
P03	18.02.2020	SURFACE WATER DRAINAGE AMENDED TO CONNECT TO SURFACE WATER PUBLIC SEWER.	TC	TC	TC
P02	17.01.2020	REVISED TO SUIT DRAINAGE SURVEY	LB	TC	TC
P01	20.12.2019	FIRST ISSUE	DK	TC	TC

PURPOSE OF ISSUE
PLANNING
STATUS
S2 SUITABLE FOR
INFORMATION

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CLIENT
ASHLEY WAITT

PROJECT
**ST. GEORGES TERRACE
HERNE BAY**

DRAWING TITLE
PROPOSED DRAINAGE STRATEGY

SCALE	DRAWN/DESIGN	MLM REF	REVISION		
1:200 @A1	DK	6101045	P03		
PROJECT	ORIGINATOR	VOLUME/ LEVELS & LOCATIONS	TYPE	ROLE	NUMBER
6101045- MLM - ZZ - XX - DR - C - 0001					



PRINT ACCURACY INDICATOR 50mm 100mm

AUTOCAD 2017