

DRAINAGE LEGEND (1:200)

PROPOSED FEATURES

- FW Soil stack (Type TBC by Architect/m&e engineer)
- Foul water inspection chamber (4500)
- Foul water manhole
- Rainwater pipe
- Storm water rodding eye
- Road gully
- Storm water access chamber (3000)
- Storm water inspection chamber (4500)
- Resin bound porous parking area
- Geocellular attenuation tank
- Storm water manhole
- Storm water headwall
- Stainless Steel erosion control basket
- Slope / Embankment surface
- RPZ Area
- 00.000 Finished floor level
- 1000 4.5m 1:100 Z BED

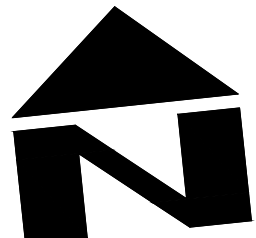
ABBREVIATIONS

- CP - CATCHPIT
- MH - MANHOLE
- IC - INSPECTION CHAMBER
- AC - ACCESS CHAMBER
- RE - RODDING EYE
- IL - INVERT LEVEL
- SL - SUMP LEVEL
- CL - COVER LEVEL

- BD HIGH LEVEL IL
- BD LOW LEVEL IL

DESIGN SUBJECT TO THE APPROVAL OF:
PLANNING AUTHORITY
BUILDING CONTROL
DESIGN SUBJECT TO THE CONFIRMATION OF:
EXTERNAL LEVELS DESIGN
ORDINARY WATERCOURSE APPROVAL
WINTER GROUND WATER MONITORING

- STANDARD NOTES
- DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
 - ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
 - ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY, SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
 - 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.
 - 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 ENGINEER IMMEDIATELY.
 - COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS.
 - ALL UN-REFERENCED PIPES ARE ASSUMED TO BE 100mm DIA.
 - ROAD GULLY OUTLET PIPES ARE TO BE 150mm DIA. WITH CONCRETE SURROUND AND FLEXIBLE JOINTS. ALL GULLIES SHALL BE FITTED WITH GRADE D400 GRATINGS AND FRAMES TO BS EN124, UNLESS OTHERWISE STATED.
 - ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT PART-H, AND TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
 - THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
 - IF ANY SUB SOIL DRAINAGE SYSTEMS ARE UNCOVERED DURING THE WORKS CONTACT THE ENGINEER FOR INSTRUCTIONS. SUB SOIL DRAINS ARE TO BE DIVERTED AROUND NEW WORKS AND CONNECTED INTO THE SURFACE WATER.
 - NO PRIVATE AREAS ARE TO DRAIN ONTO ADOPTABLE AREAS AND VICE VERSA.
 - ALL EXISTING MANHOLE COVER, GULLIES, ETC. ARE TO BE RAISED/LOWERED TO SUIT NEW LEVELS.
 - MANHOLE AND CHAMBER COVER GRADES:
 - 'A15' IN ALL LANDSCAPED AREAS AND ON FOOTPATHS
 - 'B125' IN ALL DRIVEWAYS AND PRIVATE PARKING AREAS
 - 'C250' IN CARRIAGEWAY/ACCESS ROAD



PRELIMINARY
NOT FOR CONSTRUCTION

P.	18.09.19	PRELIMINARY ISSUE	LH	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

cgs
civils
Consulting Civil Engineers

CLIENT GD GROUP

ARCHITECT CITYZEN

JOB TITLE MERRY ENGLAND ANGMERING

DRAWING TITLE DRAINAGE LAYOUT

DRAWN	ENGINEER	CS	CHECKED	APPROVED
LH		CS	CS	
DATE	SEPT 2019	SCALE @ A1	1:200	
JOB No.	C1249	STATUS	DRAWING No.	REV.
	P		100	P-

PRELIMINARY

Detention Basin
CL 19.60 (Lowest)
Top of Water Level 19.600
Base of Pond 18.650
Depth 0.95m
Base Area 34.35m²
Maximum storage required
62.02m³
Available storage 62.3m³
1:3 Side Slope
Designed to cater for 1 in 100
year + 40% peak storm event

S11 Hydro-Brake Flow
Restricting flow to 2.3/s
CL 19.600
IL 18.630
SL 18.320
12000 CP
Hydro-Brake Ref No.
CTL-SHE-0074-2300-0900-2300

F10
CL 18.820
IL 17.470 (TBC)
12000 MH
Subject to negotiations with
Southern Water Under
Section 50 Agreement