LEGEND

150ø–1:100 — SURFACE WATER PIPE OFFERED FOR SOUTHERN WATER SECTION 104 ADOPTION

PRECAST MANHOLE INSPECTION CHAMBER OFFERED FOR SOUTHERN WATER SECTION 104

ROAD GULLY

CHANNEL — LINEAR CHANNEL

HYDROBRAKE MANHOLE OFFERED FOR SECTION 104 ADOPTION, TO BE ALARMED AND VENTED TO MANUFACTURERS SPECIFICATION

POROUS PAVING WITH PERFORATED PIPE (TYPE 3 STONE)

POROUS ASPHALT WITH PERFORATED PIPE (TYPE 3 STONE)

Drain — FULL RETENTION PETROL INTERCEPTOR TO BE ALARMED AND VENTED TO MANUFACTURERS SPECIFICATION.

SWALE/STORAGE BASIN OFFERED FOR SOUTHERN WATER SECTION 104 ADOPTION, WITH CHECK DAMS. PLANTING BY LANDSCAPE ARCHITECT.

HEADWALL OFFERED FOR SOUTHERN WATER SECTION 104. FINAL DETAILS TO MANUFACTURERS SPECIFICATION

150ø–10m–1:100 — FOUL WATER PIPE OFFERED FOR SOUTHERN WATER SECTION 104

FOUL WATER MANHOLE OFFERED FOR SOUTHERN WATER SECTION 104

FOUL WATER PUMP STATION, TO HAVE EMERGENCY PUMPS,TO BE ALARMED AND VENTED WITH EMERGENCY STORAGE ALSO PROVIDED. TO MANUFACTURERS SPECIFICATION. OFFERED FOR SOUTHERN WATER SECTION 104

FOUL WATER RISING MAIN OFFERED FOR S104 ADOPTION

SITE BOUNDARY

NOTE:
TOPOGRAPHICIAL SURVEY, OS DATA, SITE PLAN OVERLAY SHOWN INDICATIVELY AND SHOULD BE COMPLETED BY ARCHITECT.

NOTE:
SCHEME SUBJECT TO DETAILED DESIGN

NOTE:
REFER TO DRAWING 6202 FOR KEY PLAN

PROPOSED PEAK SURFACE WATER DISCHARGE FLOW RATES AND ATTENUATION TABLE.

CATCHMENT AREA	PROPOSED FLOW RATE	PROPOSED ATTENUATION POND
1	11.30 L/S	3,900m³
2	2.00 L/S	500m³
3	10.30 L/S	3,250m³

NOTE:
DETAIL OF VEHICLE WASH EQUIPMENT TO DRAINAGE NETWORK SUBJECT TO CONFIRMATION BY THE TENANTS

NOTE:
REFER TO DRAWING 6001 FOR UNIT 2 DRAINAGE PLAN

UNIT 2
B8 – WAREHOUSE/DISTRIBUTION
FFL 3.500

UNIT 1
B8 – WAREHOUSE/DISTRIBUTION
FFL 3.200

UNIT 3
B8 – WAREHOUSE/DISTRIBUTIO
FFL 2.200

FOOD STORE/DRIVE-T
& TRADE UN
FFL 2.600
FFL 2.900
FFL 2.950

EXISTING ACCESS TO REMAIN

DRAIN

SWMH S9
1200ø
HYDROBRAKE
LIMITED TO 2 L/S
CL 1.70
IL 0.200

ASSUMED OUTFALL DETAILS:
CL 1.500
IL 0.175

ATTENUATION POND
IL 0.210
WITH 300mm
FREEBOARD TO
STORE 287.5m3

SWMH S8
1200ø
CL 1.70
IL 0.220

ATTENUATION POND
IL 0.250 WITH
300mm
FREEBOARD TO
STORE 287.5m3

SWMH S7
1200ø
CL 2.080
IL 0.280

SWMH S7
1200ø
CL 2.880
IL 0.575

F7
1200ø
CL 2.109
IL 1.360

F8
1200ø
CL 3.030
IL 0.730

SWMH S6
1200ø
CL 2.880
IL 0.900

F6
1200ø
CL 2.820
IL 0.335

SWMH S10
1200ø
CL 2.840
IL 1.210

SWMH S5
1200ø
CL 2.640
IL 1.240

F10
1200ø
CL 2.630
IL 0.070

F9
1200ø
CL 2.890
IL 0.280

SWMH S11
1500ø
CL 2.925
IL 0.940

F11
1200ø
CL 2.54
IL -0.165

SWMH S11
1500ø
CL 2.440
IL 1.045

F5
1200ø
CL 2.160
IL 0.840

SWMH S4
1200ø
CL 2.400
IL 1.200

F4
1200ø
CL 2.345
IL 0.995

SWMH S3
1200ø
CL 2.650
IL 1.370

F3
1200ø
CL 2.980
IL 1.140

SWMH
1200ø
HYDROBRAKE LIMITED
TO 10.30 L/S

ASSUMED OUTFALL DETAILS:
CL 1.700
IL 0.700

ATTENUATION POND
IL 0.900
WITH 300mm
FREEBOARD TO
STORE 1450m3

ATTENUATION POND
IL 0.620 WITH 300mm FREEBOARD TO STORE 1800m3

Pond

IL 1.192 — 89.28m–600ø 1:590 — CL 0.645 IL 0.795 — 39.05m–600ø 1:270 — 16.49m–150ø–1:150 — 37.44m–150ø–1:150 — 36.66m–150ø–1:150 — 35.19m–150ø–1:150 — 65.58m–150ø–1:400 — 28.52m–225ø–1:200 — 31.52m–150ø–1:150 — 80.51m–300ø–1:275 — 94.4m–150ø–1:150 — 88.39m–300ø–1:275 — 67.1m–150ø–1:150 — 8.23m–150ø–1:150 — 88.77m–375ø–1:275 — 75.5m–150ø–1:150 — 54.69m–150ø–1:60 — 65.84m–225ø–1:200 — 23.20m–150ø–1:150 — 34.23m–225ø–1:200 — 375ø

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. THIS DRAINAGE SCHEME HAS BEEN BASED ON INFORMATION RECEIVED UP TO THE DATE OF DRAWING ISSUE. THE CONTRACTOR IS TO SATISFY HIMSELF OF SIZES, DEPTHS AND LOCATIONS OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING OF ANY WORKS AND FINAL DESIGN. ANY DISCREPANCIES, ERRORS OR OMISSIONS ARE TO BE CLARIFIED WITH THE RELEVANT ENGINEER AT THE EARLIEST OPPORTUNITY.
3. FOUL AND SURFACE WATER CONNECTIONS INTO THE EXISTING PUBLIC SEWERS IS ASSUMED ONLY. FINAL CONNECTIONS LEVELS AND DETAILS TO BE AGREED WITH THE APPROPRIATE LOCAL AUTHORITY AND CONTRACTOR.
4. MANHOLE COVERS AND FRAMES TO BS EN 124
SERVICE YARDS AND HIGHWAYS (CLASS D400)
CAR PARKING AREAS (CLASS B125)
SOFT LANDSCAPING AND FOOTWAYS (CLASS A15)
INTERNAL MANHOLES TO HAVE DOUBLE SEALED, SCREWED DOWN COVERS AND FRAMES AS HOWE GREEN OR SIMILAR APPROVED.
5. MANHOLE DETAILS – (MINIMUM REQUIREMENTS ONLY)

DEPTH m	TYPE	SIZE mm	PIPE DIA. mm	ACCESS mm
1.0–1.50	P.C.	1050 DIA.	< 375	600 CLEAR
< 3.0	P.C.	1200 DIA.	< 375	600 CLEAR
< 3.0	P.C.	1500 DIA.	375–700	600 CLEAR
< 3.0	P.C.	1800 DIA	750–900	600 CLEAR
3.0–6.0	P.C.	AS < 3.0 DEPTH BUT WITH 900 DIA. ACCESS SHAFT		
< 1.0	BRICK	900x675	< 225	600 CLEAR
1.0–1.50	BRICK	1240x675	< 225	1200x600
1.50–3.0	BRICK	1240x750	< 225	600 CLEAR
< 1.2	PPIC	475 DIA.	< 150/160	475 CLEAR
1.2–3.0	PPIC	475 DIA.	< 150/160	340 CLEAR

FOR FURTHER DETAILS REFER TO MANHOLE AND PIPELINE SCHEDULES AND DETAIL DRAWINGS

6. EXTERNAL PIPE BEDDING – UNLESS NOTED OTHERWISE – SEE SCHEDULE
CLASS F: 100mm MINIMUM GRANULAR BED WITH SELECTED BACKFILL TO 300mm ABOVE CROWN OF PIPE
CLASS B: 100mm MINIMUM GRANULAR BED & HAUNCH TO HALF PIPE HEIGHT WITH SELECTED BACKFILL TO 300mm ABOVE CROWN OF PIPE
7. INTERNAL PIPE RUNS UNDER BUILDINGS, ETC. TO HAVE 100mm MINIMUM GRANULAR BED AND SURROUND WITH SELECTED BACKFILL. WHERE PIPE IS WITHIN 300 OF THE UNDERSIDE OF SLAB 150 MINIMUM CONCRETE SURROUND TO BE PROVIDED
8. ALL RAINWATER PIPES TO HAVE ACCESSIBLE RODDING POINTS OR INCORPORATED GULLIES WHERE REQUIRED.
9. ALL ROAD GULLIES TO BE TRAPPED & HAVE 150mm DIA. OUTLETS
10. WHERE COVER TO PIPES IS LESS THAN 900mm IN ROADS AND 600mm ELSEWHERE PROVIDE CONCRETE SURROUND OR PROTECTION SLAB UNLESS NOTED OTHERWISE. ALL TO BE IN ACCORDANCE WITH MANUFACTURES DEPTH/LOADING REQUIREMENTS.
11. CLAY PIPEWORK UP TO & INCLUDING 300mm DIA. TO BE CLAY (EXTRA STRENGTH) TO BS EN 295 ON CLASS F BEDDING. ABOVE 300mm DIA. PIPES TO BE CONCRETE (CLASS H) TO BS 5911 ON CLASS B BEDDING UNLESS NOTED OTHERWISE.
12. FOUL DRAINAGE TO BE AS "WAVIN OSMA SOLID WALL / ULTRARIB" TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED, ALL INSTALLED TO MANUFACTURES RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
13. SURFACE WATER DRAINAGE PIPEWORK TO BE AS "WAVIN OSMA TWIN WALL SYSTEM" TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED, ALL INSTALLED TO MANUFACTURES RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
14. DRAINAGE CHANNELS TO BE AS "ACO" OR SIMILAR APPROVED AS FOLLOWS:
CAR PARKS : Q–MAX OR M100D CHANNELS WITH D.I. HEELGUARD GRATING (LOAD CLASS C250) UNLESS NOTED OTHERWISE.
SERVICE YARD, PFS. & GARDEN CENTRE AREAS : Q–MAX OR M100D CHANNELS WITH D.I. GRATING (LOAD CLASS D400) UNLESS NOTED OTHERWISE.
ALL OUTLETS TO HAVE 150 DIA. TRAPPED GULLYS OR SUMP UNITS WITH TRASH BUCKETS TO SUIT UNLESS NOTED OTHERWISE.
THE CONTRACTOR TO LIAISE WITH CHANNEL MANUFACTURER (ACO) WITH REGARD TO DEPTH, DETAILS AND PART COMPONENT ARRANGEMENT, ETC.
15. ARCHITECT TO ADVISE ON FINAL POSITIONS OF RAINWATER PIPES AND FOULWATER OUTLETS IN GROUND FLOOR SLAB.
16. EXISTING SEWERS WHICH ARE OR WILL BE DISUSED ARE TO BE TRACED, AND ANY DRAIN WHICH SHOWS SIGNS OF FLOW SHOULD BE INVESTIGATED TO ESTABLISH ITS ORIGIN AND AUTHENTICITY, AND REPORTED TO THE ENGINEER.
17. NO SEWER SHALL BE ABANDONED UNTIL THE CONTRACTOR HAS CONFIRMED THAT THERE ARE NO CONNECTIONS REMAINING.
18. ALL ADOPTABLE DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6th EDITION AND THE APPROPRIATE LOCAL AUTHORITIES ADDENDUM.
19. UPON COMPLETION OF THE WORKS A FULL SET OF TEST RECORDS FOR WATER TIGHTNESS AND INTEGRITY OF THE WHOLE UNDERGROUND DRAINAGE SYSTEM SHALL BE ISSUED TO THE EMPLOYERS AGENT.
20. FIVE DAYS PRIOR TO PRACTICAL COMPLETION THE CONTRACTOR SHALL ALSO INCLUDE FOR ARRANGING AND PROVIDING A FULL CLOSED CIRCUIT TELEVISION (CCTV) VIDEO RECORD ON CD SHOWING THE CONDITION OF THE ENTIRE BELOW GROUND DRAINAGE SYSTEM, AS INSTALLED. A COPY OF THE CD SHALL BE HANDED TO THE EMPLOYERS AGENT. THIS SHALL BE PRESENTED AS A SEPARATE COST ITEM, ALL TO BE AGREED WITH THE CLIENT.

Rev.	Description	Drn.	Chk.	Date
P1	PRELIMINARY ISSUE	DO	SH	30.11.18

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Client: LANDLINK ESTATES

Architect: MOUNTFORD PIGOTT

Project: SALTBOX SITE
BOGNOR REGIS

Drawing Title: PHASE 1
DRAINAGE STRATEGY PLANNING
SHEET 1 OF 3

Drawn:	Chkd/Appd:	Date:	Sheet Size:	Scale:
DO	KJ	OCT' 2018	A1	1:500

KSA Project Number:	Suit:	Revison:
6090	S1	P1

Project:	Originator:	Zone:	Level:	Type:	Role:	Number:
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