NOTE:
TEMPORARY LAND DRAINAGE REQUIREMENTS TBC ON SITE BY CONTRACTOR, AND FED BACK TO THE ENGINEER FOR APPROVAL

NOTE:
RODDING POINTS ARE REQUIRED FOR ACCESS AT GROUND FLOOR LEVEL IN THE RAINWATER PIPES

NOTE:
SETTING OUT OF ALL RWP's TO BE CONFIRMED BY ARCHITECT

NOTE:
THE INFORMATION SHOWN IS SUBJECT TO BUILDING CONTROL/LOCAL AUTHORITIES & EA APPROVAL

NOTE:
ANY DRAINAGE REQUIRED FOR SOFT LANDSCAPING/IN RETAINING WALLS IS TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT

NOTE:
SITE LEVELS HAVE BEEN SET TO AN ARBITRY DATUM OF 50.0m, AND THE DRAIANGE LEVELS HAVE BEEN PROVIDED RELATIVE TO THIS DATUM. THE DRAINAGE CONTRACTOR WILL NEED TO SUBTRACT 45.112m FROM THE GIVEN LEVELS TO CONVERT THESE TO OS DATUM.

NOTE:
EASTING AND NORTHINGS PROVIDED ON DRAWING ARE SET TO AN ARBITRARY DATUM, REFER TO STATION 1 - 500mE, 1000mN. POSITIONS IN MANHOLE SCHEDULE ARE RELATIVE TO THIS DATUM.

NOTE:
FOUL WATER DRAINAGE TO BE DESIGNED BY OTHERS

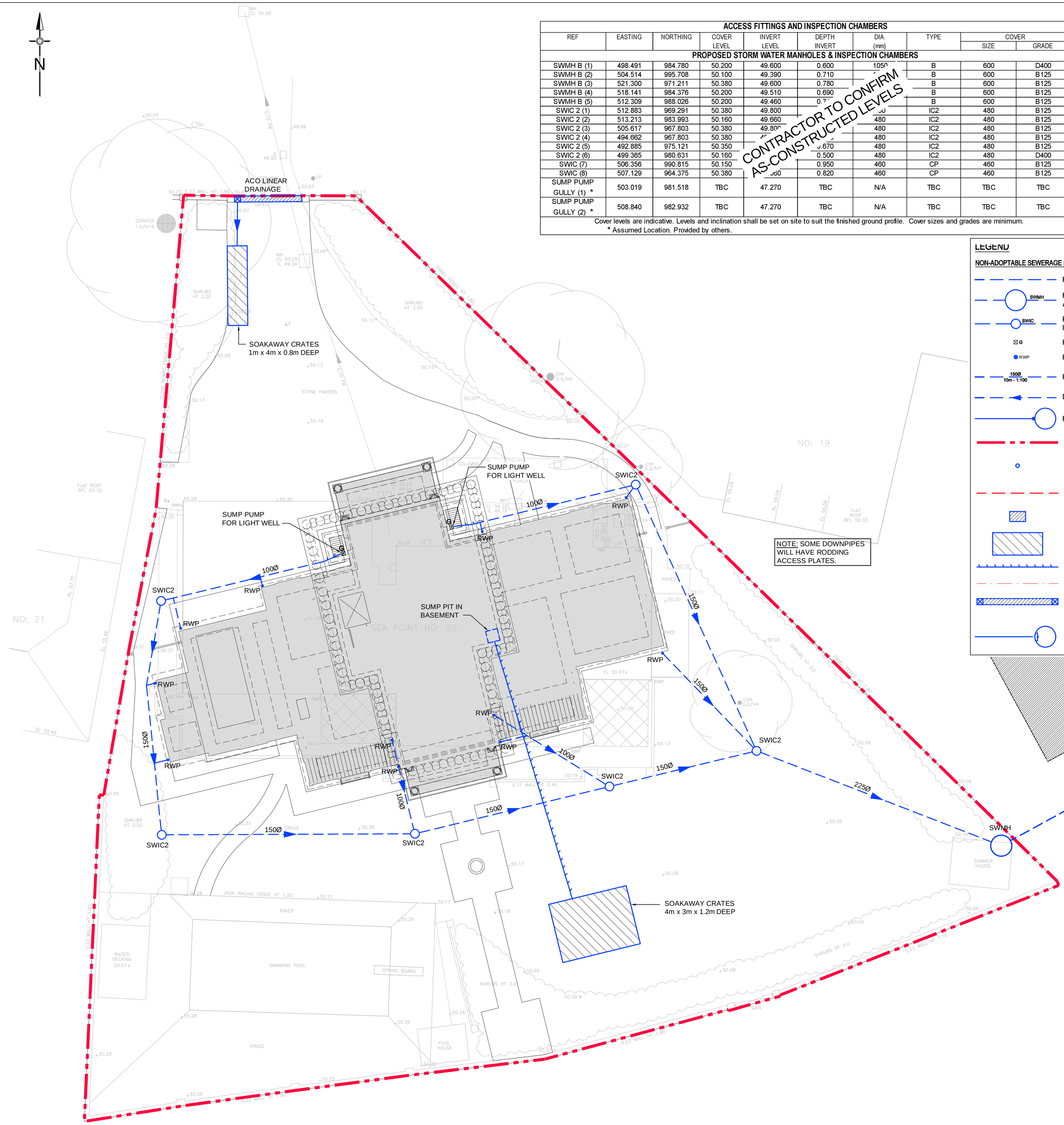
NOTE:
ANY DRAINAGE REQUIREMENTS FOR THE EXISTING SWIMMING POOL ARE TO BE CONFIRMED

NOTE:
THIS DRAWING HAS BEEN CREATED USING THE FOLLOWING SURVEY INFORMATION:

TOPOGRAPHICAL SURVEY INFORMATION
PREPARED BY HARRIS SURVEYS LTD
DRAWING 14989_SITE

NOTE:
CLASS Z PIPE BEDDING AND SURROUND TO BE USED UNDER:
a) VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS EQUAL TO OR LESS THAN 1200mm

b) ALL NON-VEHICULAR AREAS WHERE COVER TO PIPE SOFFIT IS EQUAL TO OR LESS THAN 900mm



CONTRACTOR TO CONFIRM AS-CONSTRUCTED LEVELS

ACCESS FITTINGS AND INSPECTION CHAMBERS

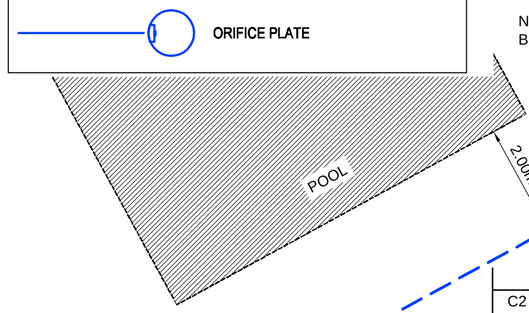
REF	EASTING	NORTHING	COVER LEVEL	INVERT LEVEL	DEPTH INVERT	DIA. (mm)	TYPE	COVER SIZE	COVER GRADE	DETAILS
PROPOSED STORM WATER MANHOLES & INSPECTION CHAMBERS										
SWMH B (1)	498.491	984.780	50.200	49.600	0.600	1050	B	600	D400	
SWMH B (2)	504.514	995.708	50.100	49.390	0.710	1050	B	600	B125	FLOW CONTROL
SWMH B (3)	521.300	971.211	50.380	49.600	0.780	1050	B	600	B125	
SWMH B (4)	518.141	984.376	50.200	49.510	0.690	1050	B	600	B125	
SWMH B (5)	512.309	988.026	50.200	49.460	0.740	1050	B	600	B125	
SWIC 2 (1)	512.883	969.291	50.380	49.800	0.580	480	IC2	480	B125	
SWIC 2 (2)	513.213	983.993	50.160	49.660	0.500	480	IC2	480	B125	
SWIC 2 (3)	505.617	967.803	50.380	49.800	0.580	480	IC2	480	B125	
SWIC 2 (4)	494.662	967.803	50.380	49.710	0.670	480	IC2	480	B125	
SWIC 2 (5)	492.885	975.121	50.350	49.670	0.680	480	IC2	480	B125	
SWIC 2 (6)	499.365	980.631	50.160	49.660	0.500	480	IC2	480	D400	
SWIC (7)	506.356	990.815	50.150	49.200	0.950	460	CP	460	B125	CATCHPIT
SWIC (8)	507.129	964.375	50.380	49.960	0.820	460	CP	460	B125	CATCHPIT
SUMP PUMP GULLY (1) *	503.019	981.518	TBC	47.270	TBC	N/A	TBC	TBC	TBC	
SUMP PUMP GULLY (2) *	508.840	982.932	TBC	47.270	TBC	N/A	TBC	TBC	TBC	

Cover levels are indicative. Levels and inclination shall be set on site to suit the finished ground profile. Cover sizes and grades are minimum.
* Assumed Location. Provided by others.

LEGEND

NON-ADOPTABLE SEWERAGE SYMBOLS :

- PROPOSED STORM WATER SEWER
- SWMH — PROPOSED STORM WATER MANHOLE AND SEWER
- SWIC — PROPOSED STORM WATER INSPECTION CHAMBER
- G — PROPOSED GULLY / SUMP GULLY
- RWP — PROPOSED RAIN WATER PIPE (TBC)
- 150Ø / 10m - 1:100 — PIPE INFO : PIPE DIA. / LENGTH - GRADIENT OF PIP
- DIRECTION OF FLOW ALONG PIPE
- RODENT INTERCEPTOR
- SITE BOUNDARY (ASSUMED)
- SUMP PUMP FOR BASEMENT CAVITY WALL (DETAILS TO BE CONFIRMED BY SPECIALIST)
- EXTENT OF BASEMENT & SECANT PILE WALL
- PUDDLE FLANGE (DETAILS TO BE CONFIRMED BY SPECIALIST)
- INFILTRATION DEVICE TO DISCHARGE SUMP PUMP FOR BASEMENT CAVITY WALLS
- SURFACE WATER PUMPING MAIN
- EXISTING FOUL WATER
- LINEAR CHANNEL
- ORIFICE PLATE



NOTES

1. DO NOT SCALE THIS DRAWING ON PRINT OR ELECTRONICALLY. WORK FROM FIGURED DIMENSIONS ONLY.
2. No deviation from the details shown on this drawing is allowed without CampbellReith's prior permission in writing.
3. Read this drawing with all Architects, Service Engineers and CampbellReith's relevant details and drawings. **NB.** Setting-out dimensions as per the Architect's drawings take precedence.
4. All work is to be in accordance with the relevant specifications issued by CampbellReith, British Standard Codes of Practice, Statutory requirements and the Contract Documents.
5. DRAWING STATUS

   P : PRELIMINARY - Evolving drawings for approvals,Tenders, Billings, etc.

   C : CONSTRUCTION - Fully developed drawings issued under instruction for construction.

   ONLY STATUS C DRAWINGS TO BE USED FOR CONSTRUCTION.

6. SUITABILITY CODE

   WORK IN PROGRESS:

   S0 - Work in progress

   SHARED (NON-CONTRACTUAL):

   S1 - For coordination, **S2** - For information, **S3** - For internal review and comment, **S4** - For construction approval.

   DOCUMENTATION (FOR CONTRACTOR PURPOSES):

   D1 - For costing, **D2** - For Tender, **D3** - For contractor design, **D4** - For manufacture / procurement.

   CONSTRUCTION:

   A - For construction, **B** - For construction but with comments (i.e. areas in abeyance), **C** - Comprehensive revisions required.

7. Existing details shown on this drawing including kerblines, sewerage pipework, levels & inverts etc. must be confirmed on site by the contractor for their accuracy. If any discrepancies occur the engineer must be informed.
8. The proposed building outlines shown on this drawing are indicative only. Refer to architects layouts for exact external outline of proposed bids.
9. External rain water pipes, & internal DP's & floor gully locations/connections etc. shown on this drawing are approximate/indicative only. refer to archs drgs for their exact locations & types.
10. All external adoptable storm pipework & lateral connections shown falls of 1:120 unless stated otherwise.
11. All external private storm pipework & lateral connections shown on this drawing are to be 100Ø & are to have minimum falls of 1:100 unless stated otherwise.
12. Existing adopted/non-adopted storm & foul water MH's & sewers which have been made redundant by new storm/foul systems, shall be abandoned/removed. Existing sewer & manholes are to be abandoned/removed in compliance with L.A. specifications & CRH specifications.
13. Cover levels shown on this drawing are approximate & are to be adjusted to suit finished pavement levels on site by contractor. Covers shall be orientated to suit pavement finishes.
14. UNDERSLAB DRAINAGE CONNECTIONS:

a) All underslab storm connections up to first external inspection chamber/manhole are to be 100Ø & are to have a minimum fall of 1:40 unless stated otherwise. After first external inspection chamber/manhole connections are to be 100Ø & have a minimum fall of 1:100 unless stated otherwise.

b) Final orientation & position of first external chambers receiving underslab connections are to be determined on site by contractor.

c) Bends along underslab connections are to be long radius 5-45°.

d) Finished underslab drainage route connections ie. bend & straight combinations are to be determined on site to suit the number of bends in each connection is to be kept to a minimum.

15. All adoptable storm sewerage runs to be laid soffit to soffit unless stated otherwise. All non-adoptable storm/foul sewerage to be laid soffit to soffit unless stated otherwise.
16. External rainwater pipes are to be roddable above ground (refer to details).
17. All works are non-adoptable unless stated otherwise.
18. Adoptable pipe work to be concrete or unified clay.
19. Class z concrete encasement required where vertical clearance between two pipes is less than 300mm.
20. Pipe runs shown are indicative subject to final room layouts and downpipe locations.
21. For the provision of land drainage (if required) refer to landscape architect or qualified agronomist for details/specification.
22. At least one soil pipe at at the head of each run shall vent to the atmosphere

Status/Rev	Description	Date	By
C2	UPDATED TO SHOW CONNECTION TO OUTFALL	01.11.17	TH
C1	FINISHED FLOOR LEVEL UPDATED	15.06.17	MB
P2	DESIGN REVISED TO SUIT SOUTHERN WATER COMMENTS.	31.05.17	GK
P1	ISSUED FOR INFORMATION.	22.08.16	GP

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www.campbellreith.com

Job Title
SEA POINT

Client
MR AND MRS MARCHANT

PROPOSED DRAINAGE LAYOUT

DRAWN BY	DATE MADE	SCALE @ A1	C1 CHECKED	SUITABILITY	DRAWING FILE NAME
TH	AUG'16	1:100	SA	S2	12198

PROJECT No.	ISSUER	AREA	LEVEL	TYPE	ROLE	NUMBER	REVISION
12198	CRH	Z1	XX	DR	C	5050	C2

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