

PROJECT NAME:	AMLC	LOCATION:		
PROJECT No:	N3939	West Elevation		DATE: 10/01/2022

DRAINAGE MANHOLE / TANK INFORMATION

Chamber ref:	Attenuation Tank 01 (S1-AC1 - S1-AC2)
Drawing & details ref:	As Attached

INSPECTIONS

	APPROVAL (INITIALS)		Comments
	Expanded	LOR	
Invert levels of inlets, outlet correct:	M.S	P.D	
Stub pipes correct:	M.S	P.D	
Formation acceptable: (visual inspection of formation)	M.S	P.D	
Segments correct (inc seals):	M.S	P.D	
Step irons/ladder correct: (spacing, verticality, horizontal and orientation)	M.S	P.D	
Making good around incoming connection completed (pipes & ducts):	M.S	P.D	
Finishing to chamber internals correct:	M.S	P.D	
Biscuit(s) correct (bedding & orientation):	M.S	P.D	
Temporary cover correct (if required):	M.S	P.D	
Permeant cover and frame correct:	M.S	P.D	
Other (give details):			

AS BUILT INFORMATION

S1-AC1	Easting (mE)	Northing (mN)
Theoretical:	384422.061	401702.918
Actual:	384422.067	401702.914
Difference (mm):	0.006	-0.004
S1-AC2	Easting (mE)	Northing (mN)
Theoretical:	384422.061	401702.918
Actual:	384422.065	401702.912
Difference (mm):	0.004	-0.006

	Theoretical	Actual	Diff (mm)
Tank IL (AC1)	62.6	62.61	0.01
Tank IL(AC2)	62.525	62.527	0.002

NCR Ref (for noncompliances) :

APPROVALS - CHAMBER ACCEPTABLE

Approved by:
for Sub-Contractor

Signature:

M Scott

Name:

Mike Scott

Approved by:
for Principal Contractor

Signature:

P Davies

Name:

Phil Davies

PROJECT NAME:	AMLC	LOCATION:		
PROJECT No:	N3939	South Elevation		DATE: 03/02/2022

DRAINAGE MANHOLE / TANK INFORMATION

Chamber ref:	Attenuation Tank 02 (S1-AC3 - S1-AC5)
Drawing & details ref:	As Attached

INSPECTIONS

	APPROVAL (INITIALS)		Comments
	Expanded	LOR	
Invert levels of inlets, outlet correct:	M.S	P.D	
Stub pipes correct:	M.S	P.D	
Formation acceptable: (visual inspection of formation)	M.S	P.D	
Segments correct (inc seals):	M.S	P.D	
Step irons/ladder correct: (spacing, verticality, horizontal and orientation)	M.S	P.D	
Making good around incoming connection completed (pipes & ducts):	M.S	P.D	
Finishing to chamber internals correct:	M.S	P.D	
Biscuit(s) correct (bedding & orientation):	M.S	P.D	
Temporary cover correct (if required):	M.S	P.D	
Permeant cover and frame correct:	M.S	P.D	
Other (give details):			

AS BUILT INFORMATION

S1-AC3	Easting (mE)	Northing (mN)
Theoretical:	384437.543	401638.797
Actual:	384437.53	401638.791
Difference (mm):	-0.013	-0.006
S1-AC5	Easting (mE)	Northing (mN)
Theoretical:	384454.77	401620.634
Actual:	384454.782	401620.62
Difference (mm):	0.012	-0.014

	Theoretical	Actual	Diff (mm)
Tank IL (AC1)	61.4	61.431	0.031
Tank IL(AC2)	61.325	61.349	0.024

NCR Ref (for noncompliances) :

APPROVALS - CHAMBER ACCEPTABLE

Approved by:
for Sub-Contractor

Signature:

M Scott

Name:

Mike Scott

Approved by:
for Principal Contractor

Signature:

P Davies

Name:

Phil Davies

PROJECT NAME:	AMLC	LOCATION:		
PROJECT No:	N3939	South Elevation		DATE: 10/02/2022

DRAINAGE MANHOLE / TANK INFORMATION

Chamber ref:	Oil Interceptor (S1-OS1)
Drawing & details ref:	As Attached

INSPECTIONS

	APPROVAL (INITIALS)		Comments
	Expanded	LOR	
Invert levels of inlets, outlet correct:	M.S	P.D	
Stub pipes correct:	M.S	P.D	
Formation acceptable: (visual inspection of formation)	M.S	P.D	
Segments correct (inc seals):	M.S	P.D	
Step irons/ladder correct: (spacing, verticality, horizontal and orientation)	M.S	P.D	
Making good around incoming connection completed (pipes & ducts):	M.S	P.D	
Finishing to chamber internals correct:	M.S	P.D	
Biscuit(s) correct (bedding & orientation):	M.S	P.D	
Temporary cover correct (if required):	M.S	P.D	
Permeant cover and frame correct:	M.S	P.D	
Other (give details):			

AS BUILT INFORMATION

S1-AC3	Easting (mE)	Northing (mN)
Theoretical:	384458.88	401618.822
Actual:	384458.855	401618.828
Difference (mm):	-0.025	0.006

	Theoretical	Actual	Diff (mm)
Tank IL (AC1)	61.15	61.17	0.02

NCR Ref (for noncompliances) :

APPROVALS - CHAMBER ACCEPTABLE

Approved by:
for Sub-Contractor

Signature:

M Scott

Name:

Mike Scott

Approved by:

for Principal Contractor

Signature:

P Davies

Name:

Phil Davies

PROJECT NAME:	AMLC	LOCATION:		
PROJECT No:	N3939	South Elevation		DATE: 21/03/2022

DRAINAGE MANHOLE / TANK INFORMATION

Chamber ref:	Backwash Tank (F2-AC1 - F2-AC2)
Drawing & details ref:	As Attached

INSPECTIONS

	APPROVAL (INITIALS)		Comments
	Expanded	LOR	
Invert levels of inlets, outlet correct:	M.S	P.D	
Stub pipes correct:	M.S	P.D	
Formation acceptable: (visual inspection of formation)	M.S	P.D	
Segments correct (inc seals):	M.S	P.D	
Step irons/ladder correct: (spacing, verticality, horizontal and orientation)	M.S	P.D	
Making good around incoming connection completed (pipes & ducts):	M.S	P.D	
Finishing to chamber internals correct:	M.S	P.D	
Biscuit(s) correct (bedding & orientation):	M.S	P.D	
Temporary cover correct (if required):	M.S	P.D	
Permeant cover and frame correct:	M.S	P.D	
Other (give details):			

AS BUILT INFORMATION

F2-AC1	Easting (mE)	Northing (mN)
Theoretical:	384463.804	401616.312
Actual:	384462.961	401617.087
Difference (mm):	-0.843	0.775
F2-AC2	Easting (mE)	Northing (mN)
Theoretical:	384467.596	401612.653
Actual:	384468.8	401611.474
Difference (mm):	1.204	-1.179

Note:- Centres of tank access point differ in design to the coordinates drawn on the Ramboll drawing 51102

	Theoretical	Actual	Diff (mm)
Tank IL (AC1)	61.2	61.235	0.035
Tank IL (AC2)	61.2	61.229	0.029

NCR Ref (for noncompliances) :

APPROVALS - CHAMBER ACCEPTABLE

Approved by:
for Sub-Contractor

Signature:

M Scott

Name:

Mike Scott

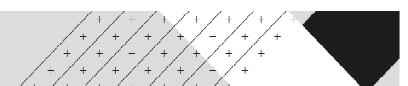
Approved by:
for Principal Contractor

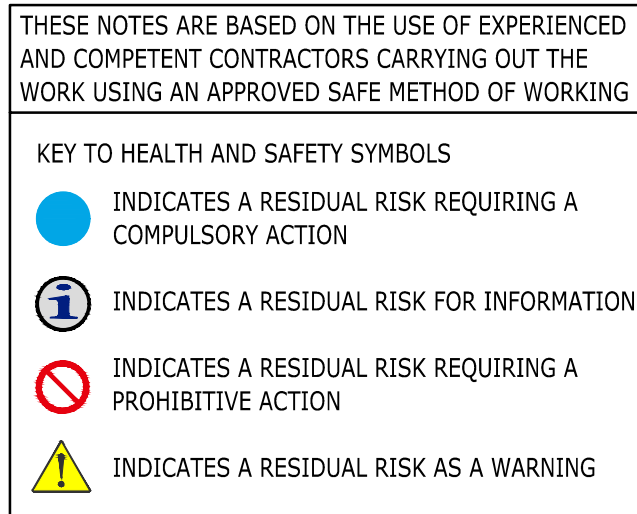
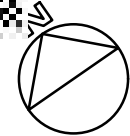
Signature:

P Davies

Name:

Phil Davies





15. IT IS ASSUMED ANY EXISTING SERVICES CAN BE DIVERTED TEMPORARILY OR PERMANENTLY TO ALLOW INSTALLATION OF DRAINAGE AS REQUIRED. REFER TO MEP CONTRACTORS DRAWINGS FOR EXTERNAL SERVICES
16. ROOT PROTECTION REQUIRED TO ALL DRAINAGE LOCATED WITHIN 5m OF EXISTING OR PROPOSED TRENCH. SUBJECT TO CONFIRMATION BY ARBORICULTURAL SPECIALIST
17. PIPES ARE NOT DESIGNED FOR CONSTRUCTION TRAFFIC, CONTRACTOR WILL TAKE NECESSARY PRECAUTIONS TO PROTECT PIPES DURING CONSTRUCTION. EXISTING DRAINAGE WHICH IS TO REMAIN IN THE PROPOSED WORKS TO BE PROTECTED AT ALL
18. MANHOLE COVERS TO BE SET SQUARE TO THE BUILDING. REFER TO SCHEDULES FOR LOAD CLASS AND SIZING
19. UNITED UTILITIES HAVE ADVISED DURING CONSULTATION PERIOD THAT THERE IS **NO** REQUIREMENT FOR A SECTION 106 AGREEMENT FOR THIS SCHEME DUE TO THE RE-USE OF THE EXISTING ON-SITE PRIVATE CONNECTION
20. NO ALLOWANCE HAS BEEN MADE FOR THE REPAIR OR REPLACEMENT OF EXISTING SITE WIDE DRAINAGE OUTSIDE THE IMMEDIATE DEVELOPMENT BOUNDARY. HOWEVER, THERE MAY BE A FUTURE REQUIREMENT FOR REPAIRS TO BE UNDERTAKEN BY THE END USER UNDER A SEPARATE SCHEME

EXISTING SURFACE WATER DRAIN AND MANHOLE		— SW —
EXISTING FOUL WATER DRAIN AND MANHOLE		— F —
EXISTING COMBINED DRAIN AND MANHOLE		— C —
ASSUMED EXISTING DRAINS		— SW — — F — — C —
EXISTING ROAD GULLY		EX-RG
PROPOSED SURFACE WATER DRAINAGE AND MANHOLE		
PROPOSED FOUL WATER DRAINAGE AND MANHOLE		
PROPOSED DRAINAGE CHANNEL WITH SUMP		SU DC
PROPOSED ROAD GULLY		RG
PROPOSED ATTENUATION TANK		
PROPOSED FLOW CONTROL UNITS		
PROPOSED NON RETURN VALVE		
PROPOSED CATCH PIT MANHOLE		
RAINWATER PIPE	RWP	DRAINAGE CHANNEL OUTLET DCP
SOIL VENT PIPE	SVP	FLOOR GULLY FG
SOIL STACK	SS	VENT PIPE VP
WASTE PIPE	WP	BACK DROP BD
RODDING EYE		
OIL SEPARATOR		
INDICATIVE MANHOLE COVER LOCATION - INTERNAL MH		
DRAIN CAST IN STRUCTURE	#	

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1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE MILLIMETRES U.N.O.
3. ALL LEVELS ARE IN METRES ABOVE ORDINANCE DATUM U.N.O.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
5. THIS DRAWING HAS BEEN DEVELOPED USING THE FOLLOWING INFORMATION:
 - EWA-1 LANDSCAPE PLAN
 - EWL-ZZZ-ZZ-DR-1-94000 [C01 21/10/2021]
 - EWA GROUND FLOOR DRAINAGE SETTING OUT PLAN EWA-801-GF-DR-A-52000 [C04 08/11/2021]
 - RUK FOUNDATION MODEL RAM-801-ZZ-M3-S-SUBSTRUCTURE [Exported 22/04/2021]
 - EXISTING UTILITIES SURVEY 52907 Utility survey [Issued 15/04/2019]
 - EXISTING TOPOGRAPHICAL SURVEY WITH LINK BRIDGE 52907 Topo 3D [Received 18/06/2021]
 - UNITED UTILITIES PUBLIC SEWER RECORDS [RECEIVED 02/04/2019]
6. FOR EXISTING DRAINAGE REFER TO DRAWINGS RAM-801-ZX-DR-D-51011, 51012 & 51013
7. FOR PROPOSED DRAINAGE REFER TO DRAWING RAM-801-XX-DR-D-51102
8. FOR MANHOLE SCHEDULES REFER TO DRAWINGS RAM-801-XX-DR-D-51200 & 51201
9. FOR TYPICAL DRAINAGE DETAILS REFER TO DRAWINGS RAM-801-XX-DR-D-51400 SERIES
10. ALL SURFACE WATER PIPES (UP TO 600mm DIA) TO BE STRUCTURED WALL HDPE TO BS EN 13476-1 AND -3, KITEMARKED, AGREEMENT CERTIFIED OR CE MARKED U.N.O
11. ALL FOUL WATER PIPES TO BE UPVC SOLID WALL TYPE B, TO BS EN 13476-1 AND -3, KITEMARK OR AGREEMENT CERTIFIED
12. ANY PIPEWORK WHICH IS CAST INTO FOUNDATIONS OR THROUGH GROUND BEAMS TO BE DUCTILE CAST IRON
13. PRECAST CONCRETE MANHOLES IN ACCORDANCE WITH BS 5911 - 3:2002, BS EN 1917:2002 AND TO BE KITEMARKED OR CE MARKED
14. ALL INTERNAL FOUL BRANCH CONNECTIONS TO BE DN100 AT 1:40 MINIMUM GRADIENT U.N.O. HEAD OF BRANCH **IL=64.250** U.N.O
15. ALL INTERNAL SURFACE WATER BRANCHES FROM RAINWATER DOWNPIPES TO BE DN150 AT 1:60 MINIMUM GRADIENT U.N.O. HEAD OF BRANCH **IL=64.250** U.N.O
16. IT IS ASSUMED THAT ALL ABOVE GROUND DRAINAGE CONNECTIONS ARE RODDABLE AND VENTED FROM ABOVE GROUND. ABOVE GROUND DRAINAGE ENGINEER TO CONFIRM ABOVE GROUND VENTING.
17. UNDERGROUND DRAINAGE PIPES TO HAVE THE FOLLOWING BEDDING IN ACCORDANCE WITH BUILDING REGULATIONS DOCUMENT H:
 - GREATER THAN 1200mm TO CROWN: CLASS S
 - LESS THAN 1200mm TO CROWN: CLASS Z OR LOAD RELIEVING SLAB
 - LESS THAN 300mm BENEATH SLAB: CLASS Y (modified)

C03	CONSTRUCTION ISSUE - See rev clouds	03/05 2022	SG	NM
C02	CONSTRUCTION ISSUE - Backwash and internal stack setting out amendments	15/11 2021	GS LS	AW
C01	CONSTRUCTION ISSUE	19/07 2021	GS	LS
P03	STAGE 5 PR1 ISSUE UPDATED TO SUIT ADDITIONAL ABOVE GROUND DRAINAGE	01/06 2021	GS SG	LS
Rev	Description	Date	By CHK	App

ABRAHAM MOSS
LIBRARY AND
LEISURE CENTRE



Project No: 1620005164	Scale (@A1): 1:150	Drawn: CO	Date: JUN 19
Drawing No: LP44107-RAM-B01-XX-DR-D-51101			Rev: C03

- SWIMMING POOL BACKWASH WILL BE DRAINED INTO THE EXISTING DRAINAGE NETWORK, AND ULTIMATELY THE PUBLIC SEWER AT A PASS FORWARD RATE OF 3 L/S SUBJECT TO TRADE EFFLUENT CONSENT AND APPROVAL FROM UU
- **TRADE EFFLUENT APPLICATION BY OTHERS**
- EXISTING SERVICES SUPPLYING THE EXISTING BUILDING WILL BE REMOVED. ANY NEW OR RETAINED SERVICES CAN BE TEMPORARILY DIVERTED TO ALLOW THE INSTALLATION OF THE PROPOSED DRAINAGE SYSTEM
- EXTERNAL LEVELS ARE TO REMAIN COMPARABLE TO THE EXISTING SITE SCENARIO, ESPECIALLY AT TIE IN AREAS