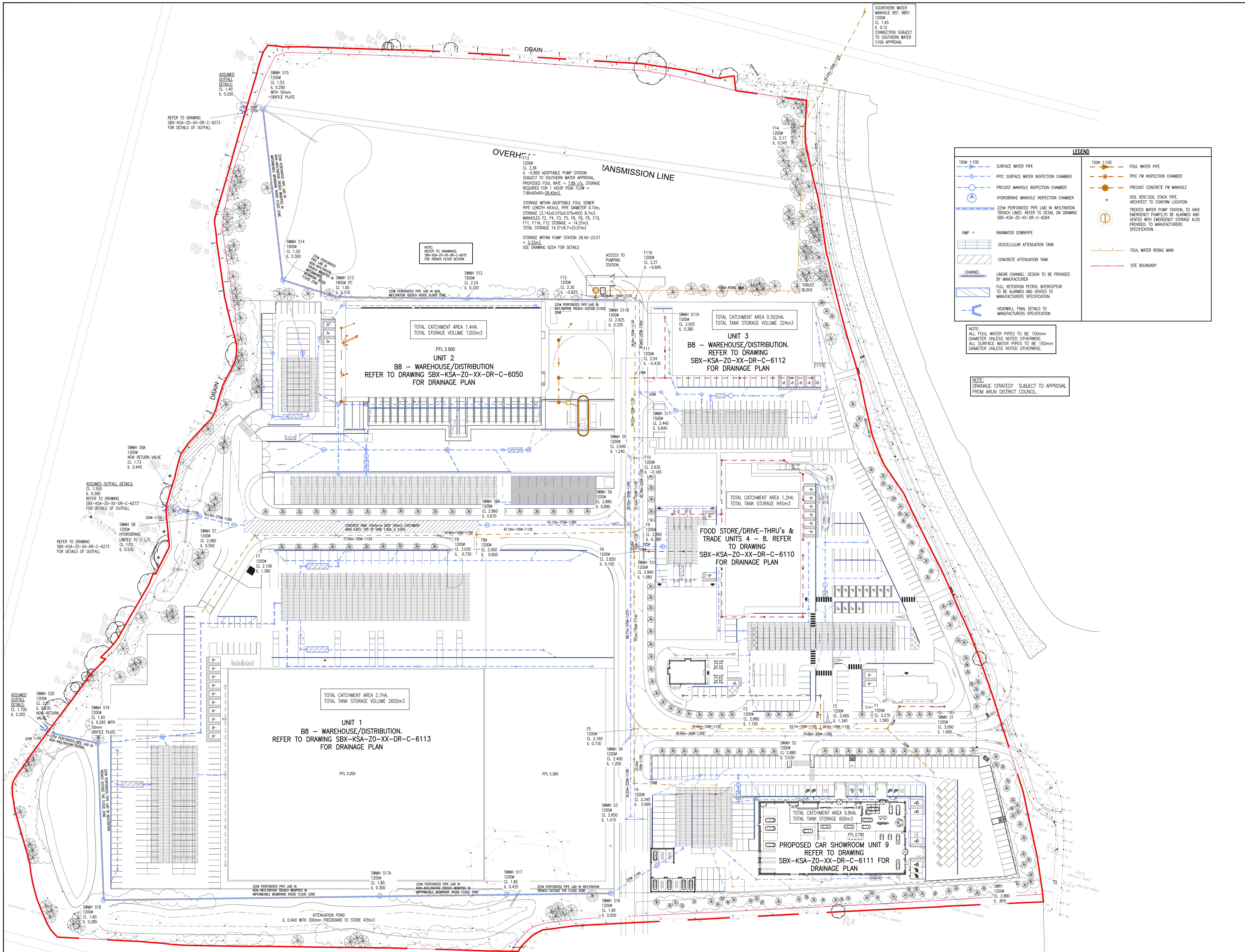




LEGEND			
1500 1:100	SURFACE WATER PIPE	1500 1:100	FOUL WATER PIPE
PPIC SURFACE WATER INSPECTION CHAMBER		PPIC FW INSPECTION CHAMBER	
PRECAST MANHOLE INSPECTION CHAMBER		PRECAST CONCRETE FW MANHOLE	
HYDROBRAKE MANHOLE INSPECTION CHAMBER		SOIL VENT/STOCK STACK PIPE	
225# PERFORATED PIPE LAD IN INFILTRATION TRENCH LINED. REFER TO DETAIL ON DRAWING SBX-KSA-ZO-XX-DR-C-6264		TREATED WATER PUMP STATION, TO HAVE EMERGENCY PUMPS TO BE ALARMED AND VENTED WITH EMERGENCY STORAGE ALSO PROVIDED TO MANUFACTURERS SPECIFICATION.	
RWP	RAINWATER DOWNPIPE		FOUL WATER RISING MAIN
GEODELLULAR ATTENUATION TANK			SITE BOUNDARY
CONCRETE ATTENUATION TANK			
CHANNEL	LINEAR CHANNEL. DESIGN TO BE PROVIDED BY MANUFACTURER		
	FULL RETENTION PETROL INTERCEPTOR TO BE ALARMED AND VENTED TO MANUFACTURERS SPECIFICATION.		
	HEADWALL. FINAL DETAILS TO MANUFACTURERS SPECIFICATION		

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

2. THE DRAINAGE SCHEME HAS BEEN BASED ON INFORMATION RECEIVED UP TO THE DATE OF DRAWING ISSUE. THE CONTRACTOR IS TO VERIFY THE EXISTING SIZES, DEPTHS AND LOCATIONS OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING ANY WORKS AND FINAL SIZES AND DISCREPANCIES, ERRORS OR OMISSIONS ARE TO BE CLARIFIED WITH THE RELEVANT ENGINEER AT THE EARLIEST OPPORTUNITY.

3. FOLI AND SURFACE WATER CONNECTIONS WITH THE EXISTING PUBLIC SEWERS IS ASSUMED ONLY. FINAL CONNECTIONS LEVELS AND DETAILS TO BE AGREED WITH THE APPROPRIATE LOCAL AUTHORITY AND CONTRACTING AGENCIES.

4. MANHOLE COVERS AND FRAMES TO BS EN 124 SERVICES WARE AND HIGHWAYS (CLASS 4/00).

5. CAR PARKING AREAS (CLASS B155).

6. SOFT LANDSCAPING AND FOOTWAYS (CLASS A15).

7. INTERNAL MANHOLES TO HAVE DOUBLE SEALED, SLOTTED DOWN CONCRETE COVERS AND FRAMES AS SHOWN OR SIMILAR APPROVED.

8. MANHOLE DETAILS - (MINIMUM REQUIREMENTS ONLY)

DEPTH (m)	TYPE	SIZE	PIPE DIA. (mm)	ACCESS
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.	800 DIA.	750-900	600 CLEAR
3.0-6.0	P.C.	AS < 3.0 DEPTH BUT WITH 800 DIA. ACCESS		AS SHOWN

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

6. EXTERNAL PIPE BEDDING - UNLESS NOTED OTHERWISE - SEE SCHEDULES AND DETAIL DRAWINGS

CLASS B 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

8. ALL RAINWATER PIPES TO HAVE ACCESSIBLE RIDDING POINTS OR INCORPORATED CALLES WHERE REQUIRED

9. ALL ROAD GULLIES TO BE TRAPPED & HAVE 150mm DIA. OUTLETS TREATED WATER PUMP STATION, TO HAVE EMERGENCY PUMPS TO BE ALARMED AND VENTED WITH EMERGENCY STORAGE ALSO PROVIDED TO MANUFACTURERS SPECIFICATION.

10. WHERE COVER TO PIPES IS LESS THAN 100mm IN ROADS OR 600mm ELSEWHERE PROVIDE CONCRETE SURROUND OR PROTECTION SLAB UNLESS NOTED OTHERWISE. ALL TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS

11. CLAY PIPEWORK UP TO & INCLUDING 300mm DIA. TO BE CLAY (EXTRA STRENGTH) TO BS EN 252 ON CLASS 5 BEDDING ABOVE 300mm DIA. PIPES TO BE CONCRETE (CLASS H) TO BS EN 111 ON CLASS 1 BEDDING UNLESS NOTED OTHERWISE

12. CLAY DRAINAGE TO BE AS 'MINI' OSMA SOLID WALL, ULTIMATE TO BS 4400 & EN4101 ON CLASS 5 BEDDING OR SIMILAR APPROVED. ALL INSTALLED TO MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE

13. SURFACE WATER DRAINAGE PIPEWORK TO BE AS 'MINI' OSMA TWIN WALL SYSTEM TO BS 4400 & EN4101 ON CLASS 5 BEDDING OR SIMILAR APPROVED. ALL INSTALLED TO MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE

14. DRAINAGE CHANNELS TO BE AS 'MAY' OR SIMILAR APPROVED AS FOLLOWS

CAR PARKS - Q-MAX OR M1000 CHANNELS WITH D.I. HEDGLAND GRATING (LOAD CLASS C250) UNLESS NOTED OTHERWISE

SERVICES YARD, PHS & GARDEN CENTRE AREAS - Q-MAX OR M1000 CHANNELS WITH D.I. GRATING LOAD CLASS D400 UNLESS NOTED OTHERWISE

15. ARCHITECT TO ADVISE ON FINAL POSITIONS OF RAINWATER PIPES AND FOLLOWER OUTLETS IN GROUND FLOOR SLAB

16. EXISTING SEWERS WHICH ARE OR MAY BE DISSED 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 ADAPTABLE DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND THE APPROPRIATE LOCAL AUTHORITY'S ADOPTION

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 EMPLOYER'S AGENT

20. FIVE DAYS PRIOR TO PRACTICAL COMPLETION THE CONTRACTOR SHALL ALSO INCLUDE FOR ARRANGING AND PROVIDING A FULL CLOSURE 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 EMPLOYER'S AGENT. THIS SHALL BE PRESENTED AS A SEPARATE COST ITEM. ALL TO BE AGREED WITH THE CLIENT

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

NOTE:
SCHEME SUBJECT TO DETAILED DESIGN

STORAGE TANK VOLUME	100	1400
STORAGE TANK VOLUME	100	1400

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associates
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01892 888811 | www.kirksaunders.co.uk

Client: **LANDLINK ESTATES**

Address: **MOUNTFORD PIGOTT**

Project: **SALTBOX SITE BIGNOR REGIS**

Drawing Title: **PROPOSED DEVELOPMENT DRAINAGE STRATEGY**

Drawn By: DO	Checked By: KJ	Date: OCT 2018	Scale: A0	Sheet Size: 1:500
KSA Project Number: 6090	Revision: D2	Page: P2		

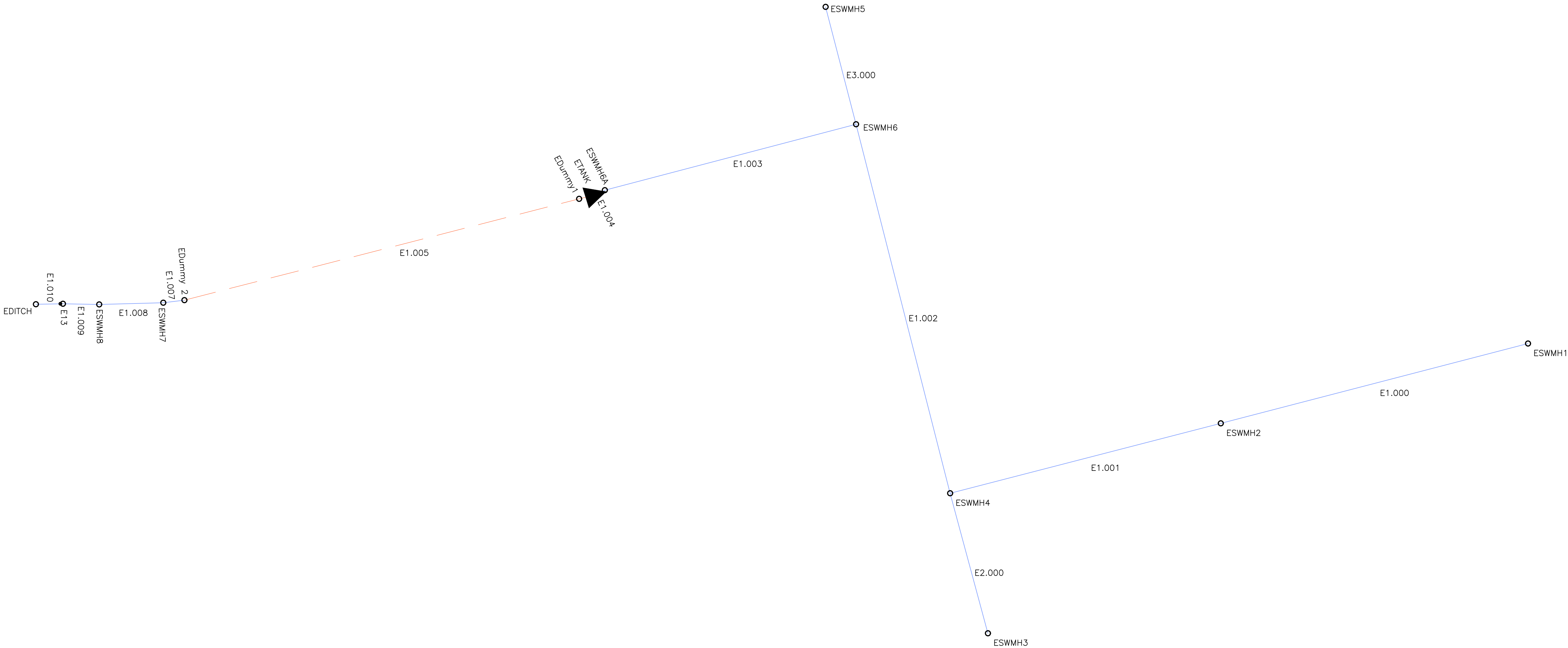
Project: **SBX KSA ZO XX DR C 6800**

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LEGEND

STORAGE TANK

NOTE
ITANK PIPE HAVE BEEN MODELED
AS DITCHES, SELF-CLEANSING
VELOCITY IS BELOW 1m/s.



- NOTES
- DO NOT SCALE THIS DRAWING
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

Rev	Description	DO	KN	18.06.19
	PRELIMINARY ISSUE			

kirk

saunders

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Templegate House,115-123 High Street, Orpington, Kent, BR6 0LG
01689 896464 | www.kirksaunders.co.uk

Client:
LANDLINK ESTATES

Architect:
MOUNTFORD PIGOTT

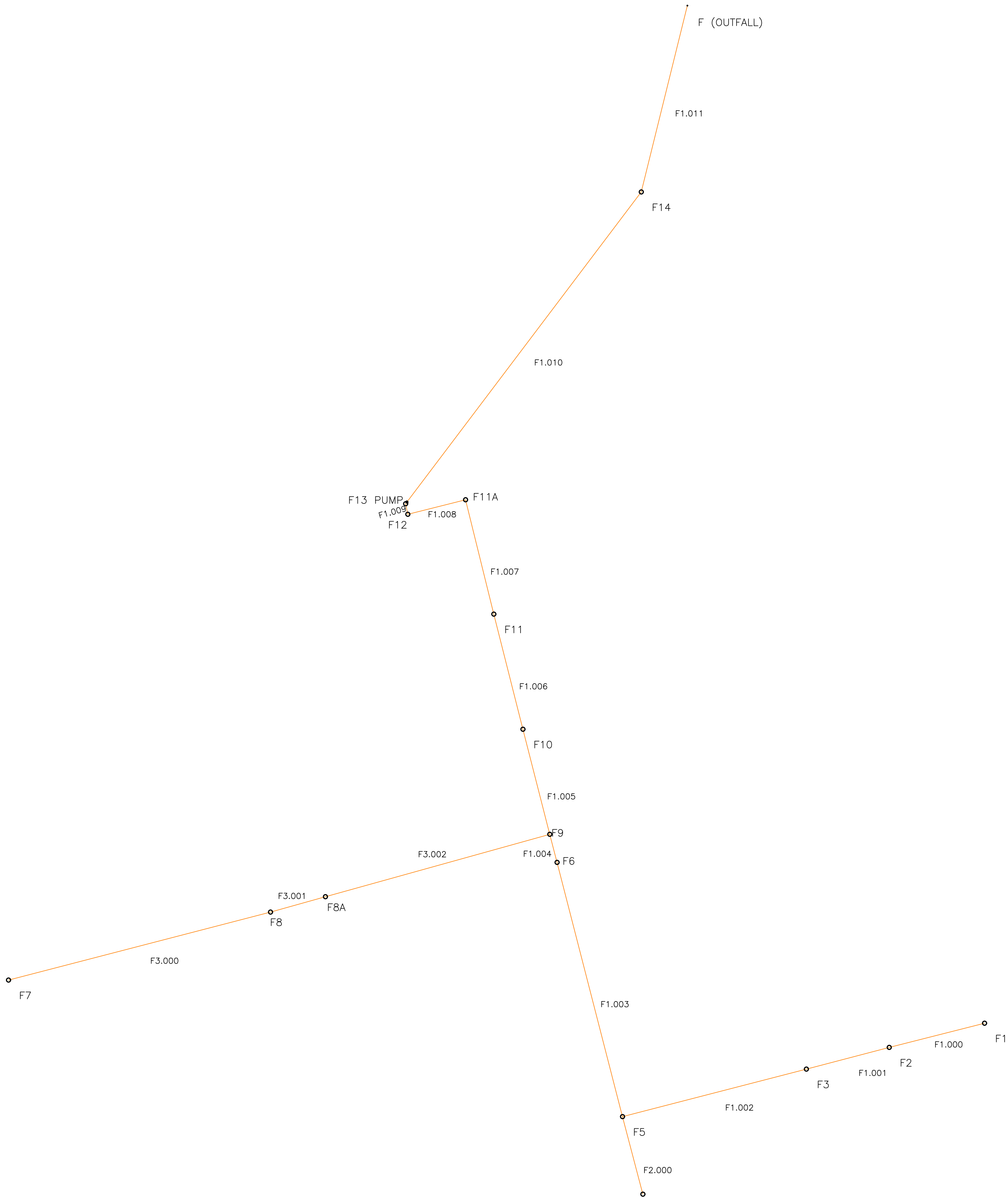
Project:
SALTBOX SITE
BOGNOR REGIS

Drawing Title:
ACCESS ROAD STORM NETWORK

Drawn:	Chkd/Appr:	Date:	Sheet Size:	Scale:
DO	KJ	JULY 2017	A1	1:250

KSA Project Number:	Sub:	Revision:
6090	D2	P1

Project:	Originator:	Zone:	Level:	Type:	Rate:	Number:
6090	KSA	Z0	XX	DR	C	6751



- NOTES**
1. DO NOT SCALE THIS DRAWING
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

P1	ISSUED FOR INFORMATION		DO	SH	18.06.19
Rev	Description		Dim	CHK	Date

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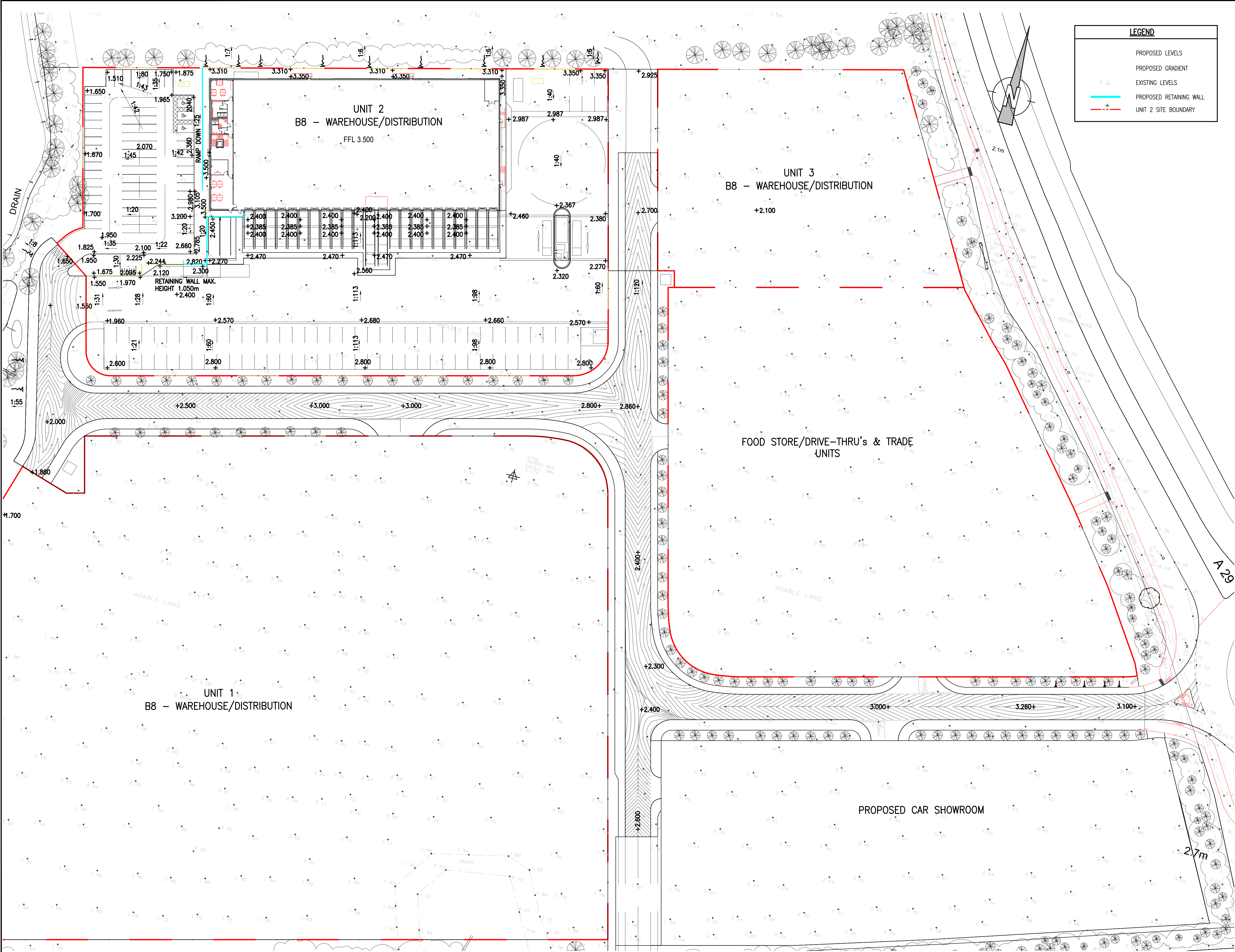
Templegate House, 115-123 High Street, Orpington, Kent, BR6 0LG
01689 896464 | www.kirk Saunders.co.uk

Client:	LANDLINK ESTATES
Architect:	MOUNTFORD PIGOTT
Project:	SALTBOX SITE BOGNOR REGIS
Drawing Title:	PHASE 1 FOUL NETWORK

Drawn:	Chk'd/App'd:	Date:	Sheet Size:	Scale:
DO	KJ	JULY 2017	A1	1:250

KSA Project Number:	Sub:	Revision:
6090	D2	P1

Project:	Originator:	Zone:	Level:	Type:	Rate:	Number:
6090	KSA	Z0	XX	DR	C	6750



LEGEND	
	PROPOSED LEVELS
	PROPOSED GRADIENT
	EXISTING LEVELS
	PROPOSED RETAINING WALL
	UNIT 2 SITE BOUNDARY

- NOTES
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
 2. DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
 3. ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES UNLESS OTHERWISE STATED.
 4. ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
 5. NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER AND ALL SETTING OUT SHALL BE AGREED ON SITE WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORKS.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCING WORKS ON THE HIGHWAY I.E. ROAD CLOSURE NOTICES.
 7. UNLESS STATED OTHERWISE, ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AT AN APPROVED TIP OFF-SITE.
 8. THE PUBLIC HIGHWAY AND WORKS WILL BE KEPT CLEAN AND FREE OF DEBRIS BY USE OF WHEEL WASHING FACILITIES AND ROAD SWEEPERS TO THE COUNCIL'S SATISFACTION.
 9. THIS DRAWING HAS BEEN TRANSCRIBED FROM MOUNFORD PIGOTT ARCHITECTS WORKING PROGRESS DRAWING 1744-U02-L02-1
 10. THIS DRAWING HAS BEEN TRANSCRIBED USING A TOPOGRAPHICAL SURVEY PROJECT NUMBER 23113_TOPO DATED DECEMBER 2013 AND PRODUCED BY SHAW COLGATE SURVEYORS.

ALL DEVELOPMENT ROADS TO BE TO ARUN DISTRICT COUNCIL ADOPTABLE STANDARDS. DESIGN SUBJECT TO HIGHWAYS APPROVALS.

FOR INFORMATION

P7	UNIT 2 CAR PARK LEVELS REVISED	DO	SH	23.06.19
P6	CONTOURS LINES ADDED	DO	SH	30.11.18
P5	REVISED TO SUIT ARCHITECTS LATEST DRAWING.	DO	SH	23.11.18
P4	LEVELS REVISED	DO	SH	29.10.18
P3	REVISED TO SUIT MOUNFORD PIGOTT'S LATEST PLANS. ROAD, EXTERNAL LEVELS ADDED	DO	KN	11.10.18
P2	REVISED TO SUIT MOUNFORD PIGOTT'S LATEST PLANS. RECEIVED 07/09/17	DO	KJ	09.08.17
P1	PRELIMINARY ISSUE	DO	KJ	20.07.17
Rev	Description	Drn	Chk	Date

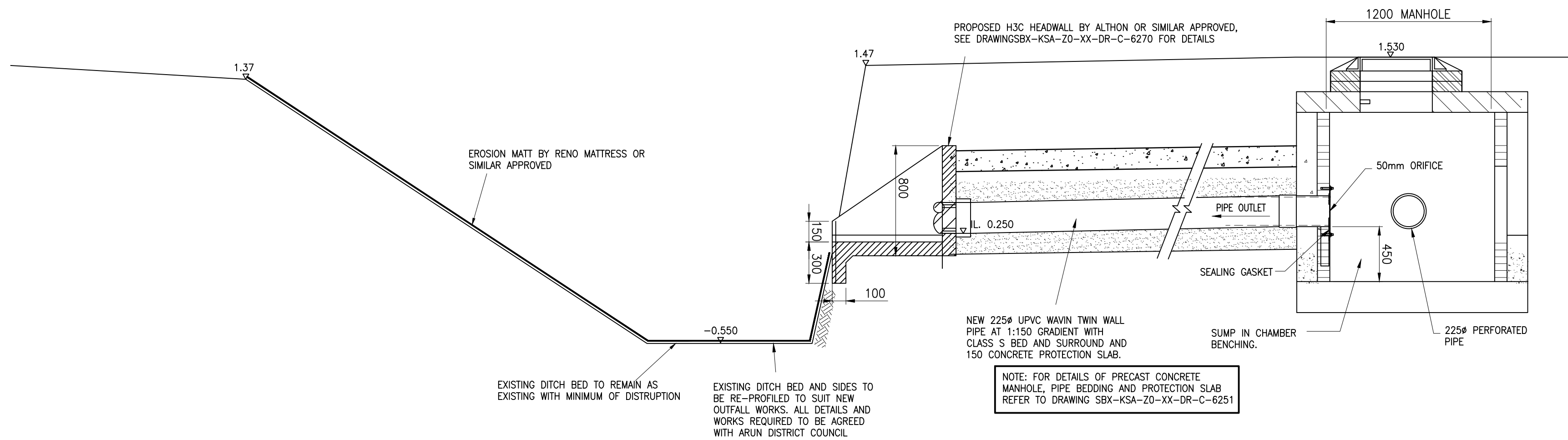
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Client:	LANDLINK ESTATES
Architect:	MOUNFORD PIGOTT
Project:	SALTBOX SITE BOGNOR REGIS
Drawing Title:	WAREHOUSE UNIT 2 EXTERNAL LEVELS

Drawn:	DO	Chk/Appd:	KJ	Date:	JULY 2017	Sheet Size:	A1	Scale:	1:250
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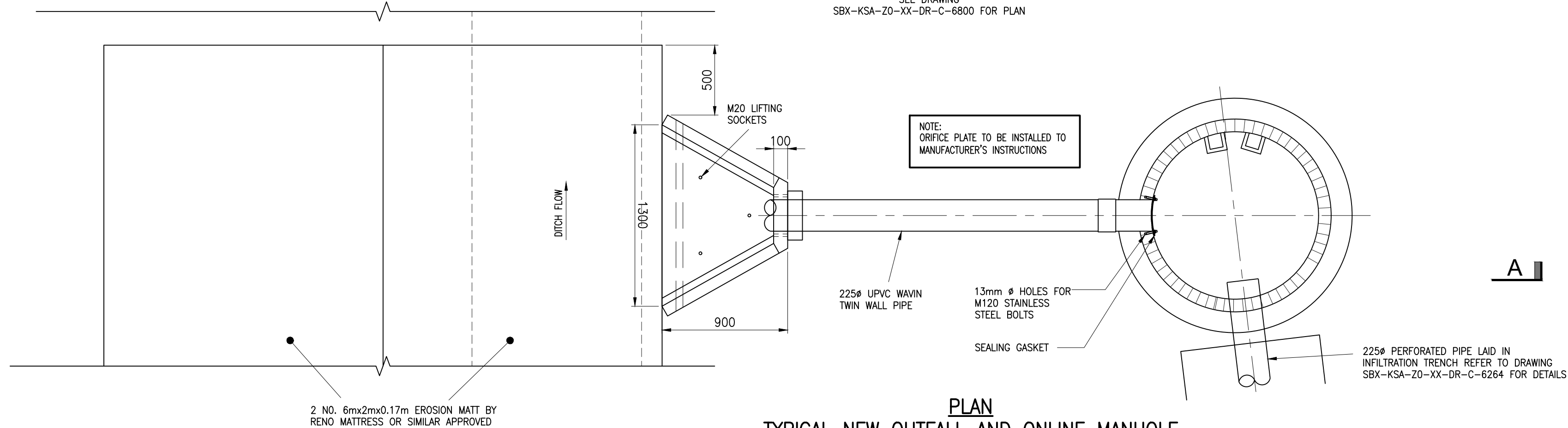
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Project:	SBX KSA-Z0-XX-DR-C-6500
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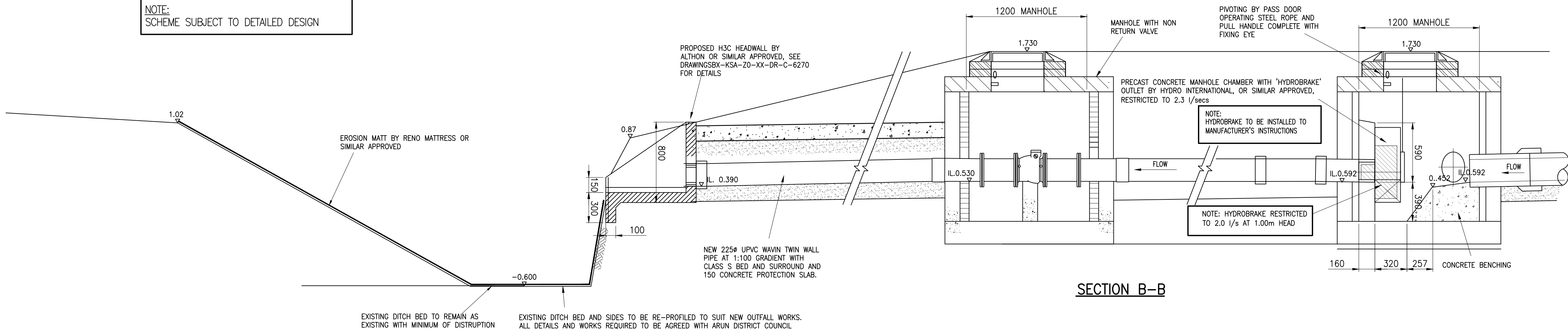


SECTION A-A

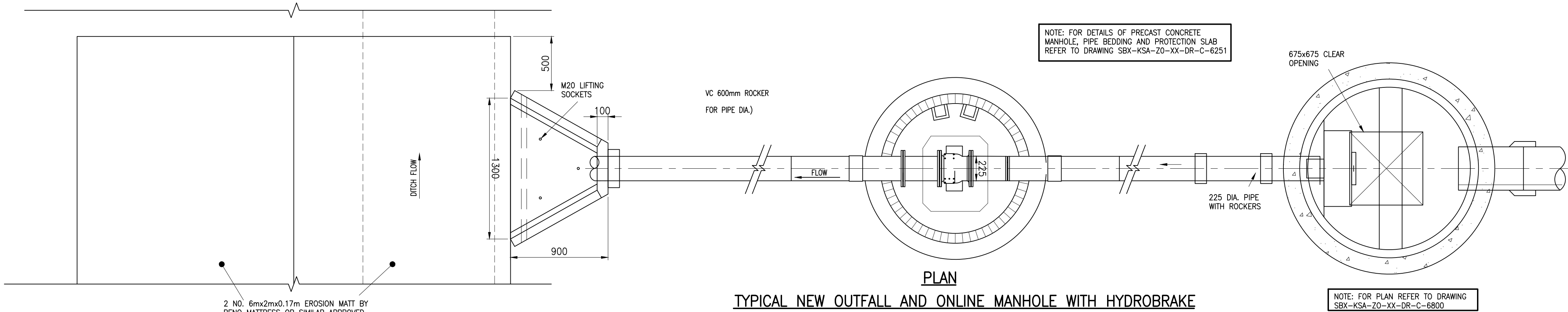
SEE DRAWING SBX-KSA-ZO-XX-DR-C-6800 FOR PLAN



PLAN TYPICAL NEW OUTFALL AND ONLINE MANHOLE WITH 50mm ORIFICE PLATE



SECTION B-B



PLAN

TYPICAL NEW OUTFALL AND ONLINE MANHOLE WITH HYDROBRAKE

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS
- 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.
- 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.
- 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.
- 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

- 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
- 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
- ALL RAINWATER PIPES TO HAVE ACCESSIBLE RODDING POINTS OR INCORPORATED GULLIES WHERE REQUIRED.
- ALL ROAD GULLIES TO BE TRAPPED & HAVE 150mm DIA. OUTLETS
- WHERE COVER TO PIPES IS LESS THAN 600mm IN ROADS AND 600mm ELSEWHERE PROVIDE CONCRETE SURROUND OR PROTECTION SLAB UNLESS NOTED OTHERWISE. ALL TO BE IN ACCORDANCE WITH MANUFACTURERS DEPTH/LOADING REQUIREMENTS
- 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.
- FOUL DRAINAGE TO BE AS 'WAVIN OSMA SOLID WALL / ULTRARIB' TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED. ALL INSTALLED TO MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
- 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 MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
- DRAINAGE CHANNELS TO BE AS 'ACO' OR SIMILAR APPROVED AS FOLLOWS:
CAR PARKS : 0-MAX OR M1000 CHANNELS WITH D.I. HEEL GUARD GRATING (LOAD CLASS C250) UNLESS NOTED OTHERWISE
SERVICE YARD, PFS. & GARDEN CENTRE AREAS : 0-MAX OR M1000 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 LAISE WITH CHANNEL MANUFACTURER (ACO) WITH REGARD TO DEPTH, DETAILS AND PART COMPONENT ARRANGEMENT, ETC.
- ARCHITECT TO ADVISE ON FINAL POSITIONS OF RAINWATER PIPES AND FOULWATER OUTLETS IN GROUND FLOOR SLAB.
- 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.
- NO SEWER SHALL BE ABANDONED UNTIL THE CONTRACTOR HAS CONFIRMED THAT THERE ARE NO CONNECTIONS REMAINING.
- ALL ADAPTABLE DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6th EDITION AND THE APPROPRIATE LOCAL AUTHORITIES ADDENDUM.
- 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.
- 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 HANDLED TO THE EMPLOYERS AGENT. THIS SHALL BE PRESENTED AS A SEPARATE COST ITEM, ALL TO BE AGREED WITH THE CLIENT.

NOTE:
SUBJECT TO APPROVAL FROM ENVIRONMENT AGENCY AND ARUN DISTRICT COUNCIL.

P3	OUTFALL DETAILS REVISED	DO	SH	20.06.19
P2	REVISED TO SUIT PLANNING CONDITION	DO	SH	26.04.19
P1	ISSUED FOR INFORMATION	DO	SH	29.10.18
Rev:	Description	Dem:	Chk:	Date

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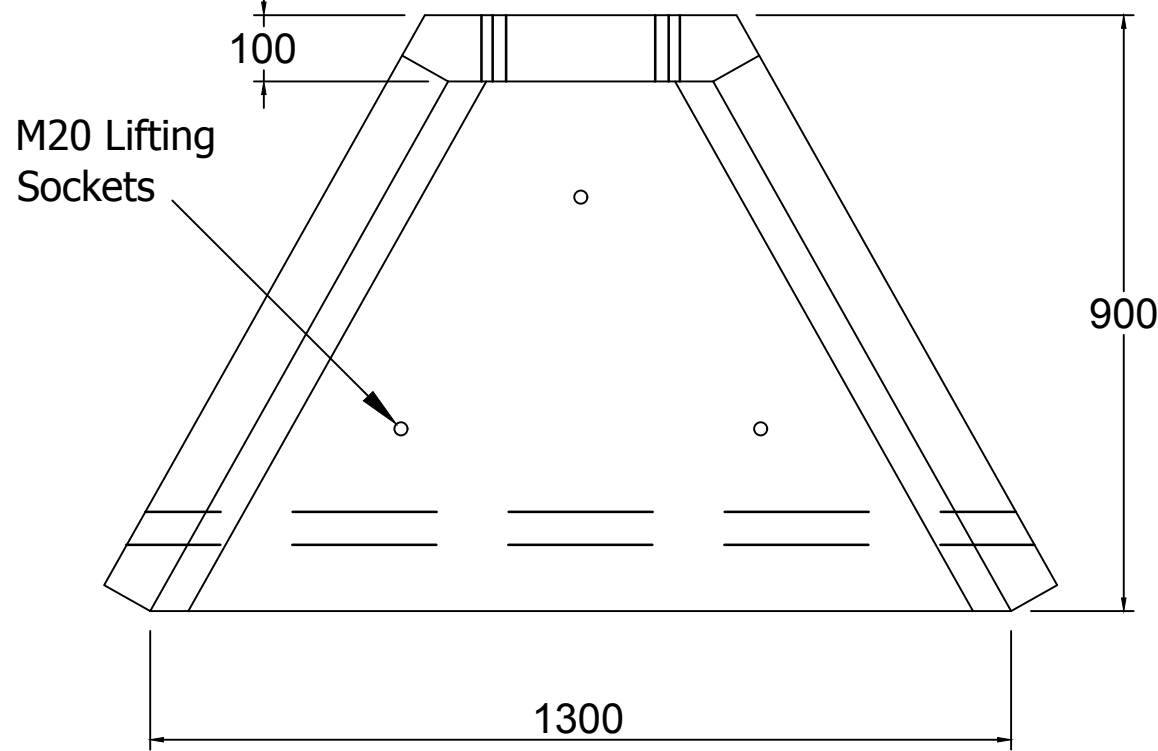
Client: LANDLINK ESTATES
Architect: MOUNTFORD PIGOTT
Project: SALTBOX SITE BOGNOR REGIS
Drawing Title: PHASE 1 DRAINAGE OUTFALL AND CONTROL DETAILS

Drawn:	Chk/Aspt:	Date:	Sheet Size:	Scale:
DO	KJ	OCT 2018	A1	1:500, 1:25

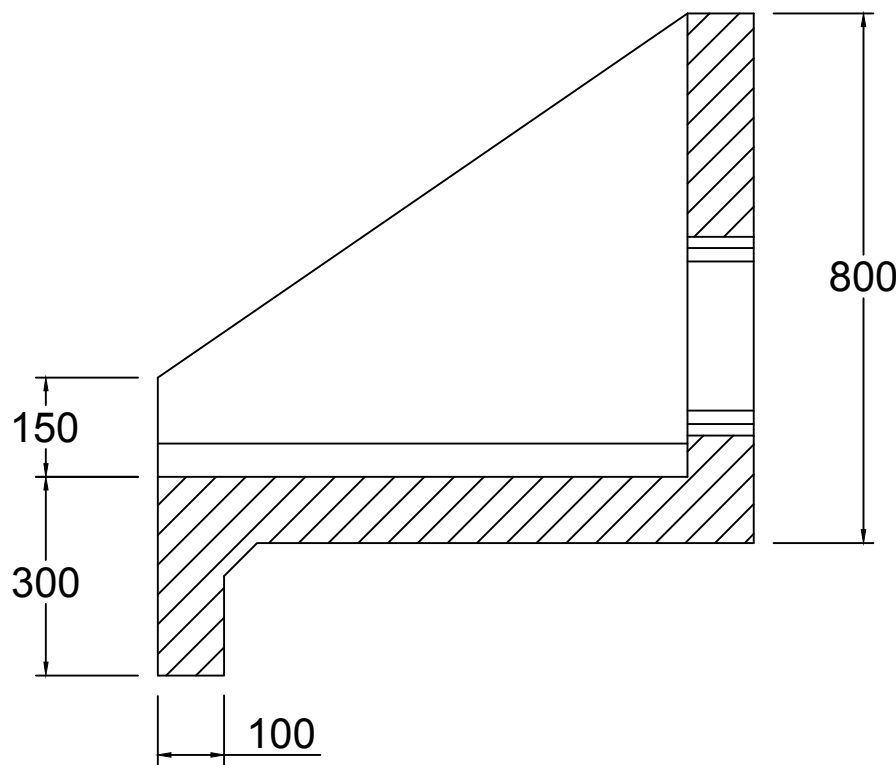
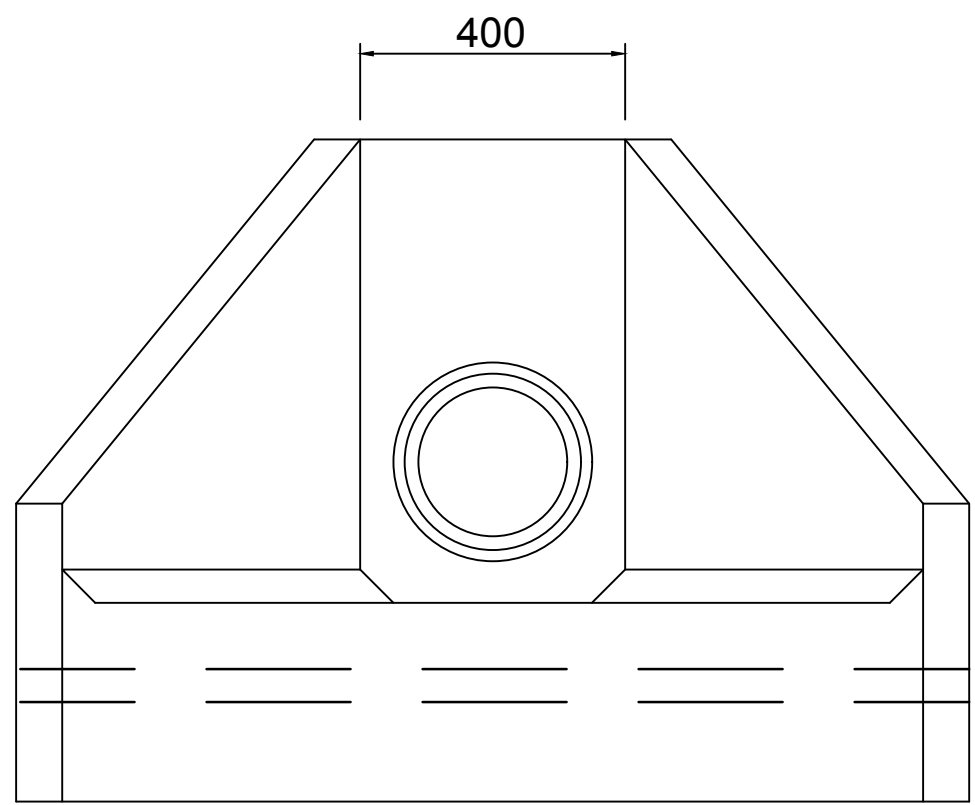
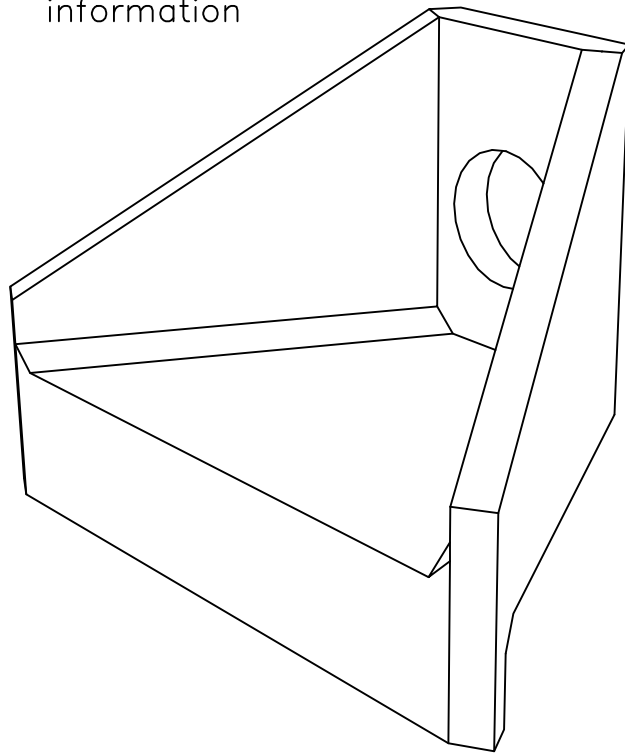
KSA Project Number:	Suit:	Revision:
6090	D2	P3

Project:	Originator:	Zone:	Level:	Type:	Rate:	Number:
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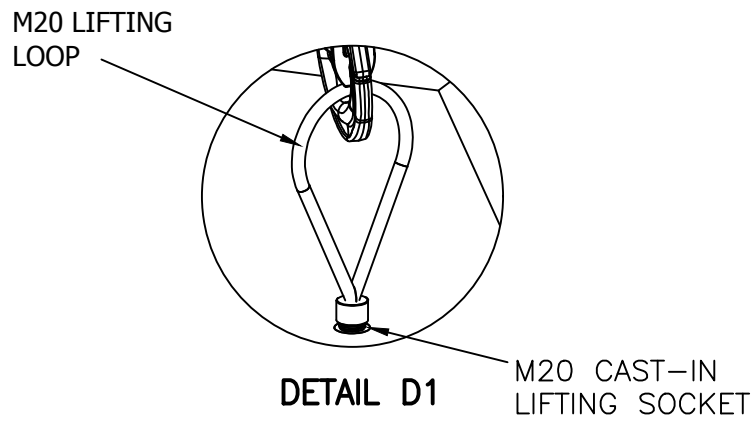
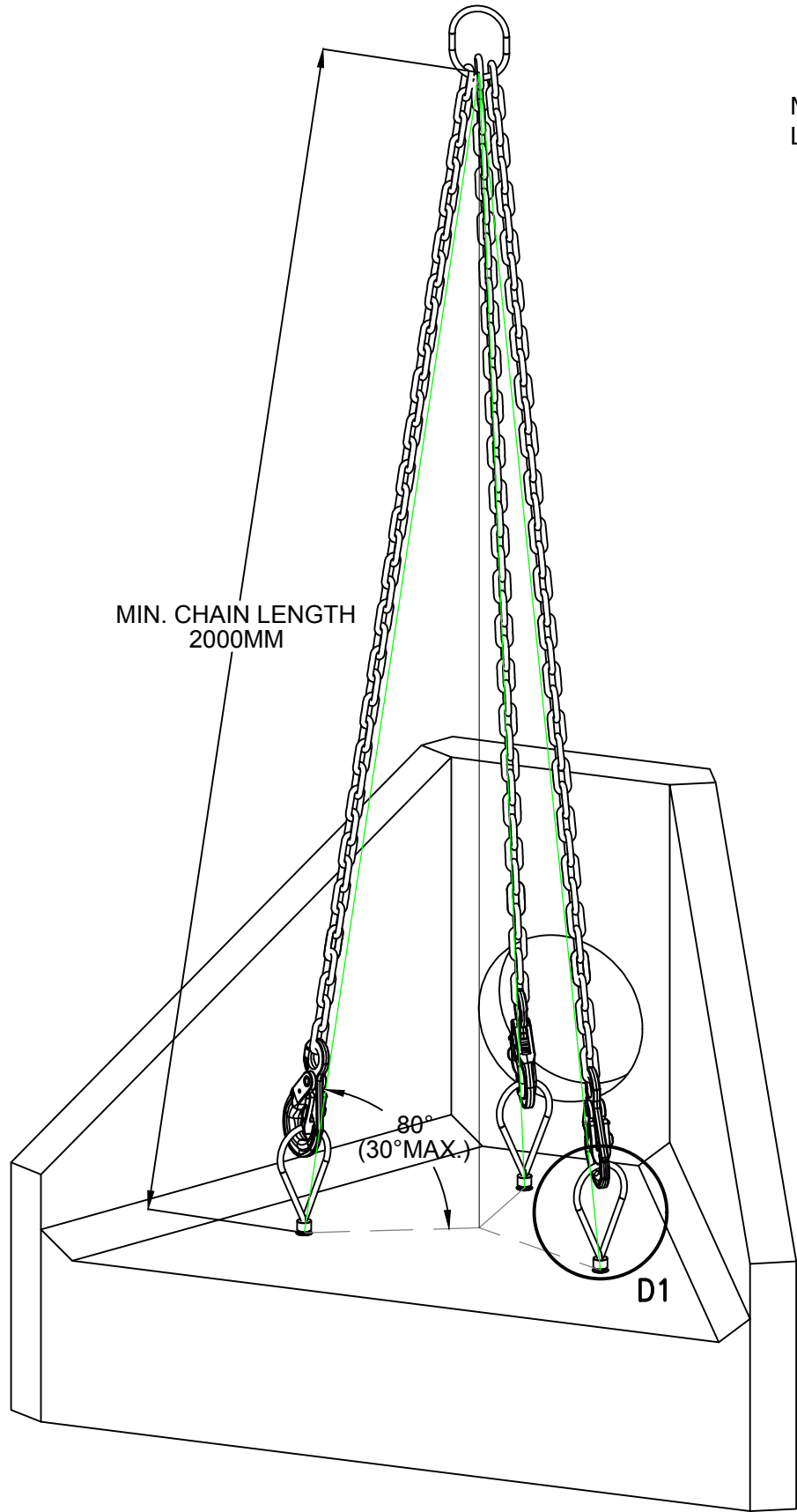
SBX KSA-ZO-XX-DR-C-6273



Note: Isometric drawing is for reference only, details may not accurately represent actual design – please see detailed views for technical information



H3C Headwall



RD20 Threaded Lifting Loop
Safe Working Load: 2000kg each

Manufactured from zinc plated steel wire rope with a precision bright steel threaded portion. Threaded lifting loops are ideally suited to axial lifting procedures but can be used up to and including angled lifts of 30 degrees.

Use and Operation

The threaded lifting loop must be fully threaded into the lifting socket prior to commencing a lifting operation. It is imperative that the two mating surfaces are parallel to each other.

NOTES:

- ALL DIMENSIONS IN MM
- ALL MEASUREMENTS $\pm$ 1MM

SPECIFICATION INFORMATION

- OPENING IN BACK WALL CAST TO SUIT OUTSIDE DIAMETER OF THE PIPEWORK
- INVERT LEVEL OF PIPE CAN BE SET TO YOUR SPECIFICATION

HEADWALL INSTALLATION
UNITS SHOULD BE BEDDED ON MINIMUM 150MM OF SEMI-DRY CONCRETE.
SIT THE HEADWALL LEVEL OR WITH A SLIGHT FALL 1:50 FROM PIPE TO SPILL MOUTH.

HANDLING

- WEIGHT OF CONCRETE IS BASED ON 2.4 TONNE/M³+5% IS RECOMMENDED FOR SIZING LIFTING EQUIPMENT.
- ALL LIFTING POINTS SHALL BE USED AS SPECIFIED BELOW – ANCHOR POINTS & LOOPS – TOTAL QTY: 3
- UNIT TO BE LIFTED AS PER LIFTING DIAGRAM

CONCRETE

- MIX REF: SELF-COMPACTING DC4/DS4 MIX
- LIFTING STRENGTH BASED ON 2 CUBES = 20N/MM²
- CHARACTERISTIC 28 DAY CUBE STRENGTH = 50N/MM²
- CONCRETE PROVIDES DESIGN CHEMICAL CLASS 4 (DC4) TO SPECIAL DIGEST 1, TABLE F2.

REINFORCEMENT

- REINFORCEMENT TO BS EN 13369
- SCHEDULING, DIMENSIONING, BENDING & CUTTING TO BS8666
- CAGE TO BE MACHINE TIED WITH STEEL WIRE

MANUFACTURE

- MANUFACTURE TO BS EN 15258:2008 PRECAST CONCRETE PRODUCTS – RETAINING WALL ELEMENTS, FACTORY PRODUCTION CONTROL CERTIFICATE NUMBER: 0086-CPR-650448 & BS EN 13369
- TOLERANCES TO BS EN 13369 CLAUSE 4.3.1.1
- FINISHING:

- MARKING: UNITS SHALL BE INDELIBLY MARKED TO SHOW:
 - MOULD REFERENCE CODE
 - DE-MOULD DATE
 - JOB REFERENCE NUMBER & UNIQUE PRODUCT NUMBER
 - UNIT WEIGHT (KG)

DESIGN

- CONCRETE DESIGN TO EC2
- ALTHOUGH HAVE DESIGNED THE CONCRETE UNITS ONLY, THE SITE CONDITIONS SHOULD BE ASSESSED FOR SUITABILITY BY THE SCHEME DESIGNER
- UNITS ARE DESIGNED TO WITHSTAND A VERTICAL LIVE LOAD SURCHARGE OF 10KN/M²
- WEIGHT OF SOIL = 18KN/M²
- ANGLE OF INTERNAL FRICTION = 30 DEG.
- DESIGN LIFE: >50 YEARS

FABRICATION SPECIFICATION

- MANUFACTURE IAW EN 1090-2 EXC CLASS 1
- MATERIAL GRADE IS TO BE: BS EN 10025 S275
- WELDING CARRIED OUT IAW EN 1090-2 PARA 7.5.4 – 7.5.18
- ALL FILLET AND BUTT WELDS TO HAVE A MINIMUM THROAT THICKNESS OF 6MM & JOINTS TO BE FULLY WELDED WHERE POSSIBLE.
- ENSURE VERTICAL FLATS ARE FULLY WELDED BOTH SIDES WHERE POSSIBLE.
- ALL SHARP EDGES AND BURRS ARE TO BE REMOVED.
- REMOVE ALL WELD SPLATTER.
- HOLES BY PUNCHING ARE PERMITTED WITH REAMING.
- GALVANISING IS CARRIED OUT AFTER FABRICATION TO BS EN ISO 1461

HANDRAIL SPECIFICATION

- KEE KLAMP + GALVANISED SIZE 8 FITTINGS
- SIZE 8 48.3MM OD 3.2MM WALL THICKNESS GALVANISED MEDIUM DUTY TUBE TO BS EN 10255
- 360N/M DESIGN LOAD AT STATED IN BS 8118, BS 6180, BS 6399 & BS 7818, CIVIL ENGINEERING SPECIFICATION FOR THW WATER INDUSTRY (CESWI) 7TH EDITION CLAUSE 2.60 HANDRAILS & BALUSTERS & THE ENGINEERING EQUIPMENT AND MATERIALS USERS' ASSOCIATION (EEMUA) PUBLICATION 105 7TH EDITION FACTORY STAIRWAYS, LADDERS AND HANDRAILS
- OTHER DESIGN LOADS AVAILABLE ON REQUEST
- GRP/FRP HANDRAILS ALSO AVAILABLE

GENERAL:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE STATUTORY UNDERTAKERS, PRIOR TO THE COMMENCEMENT OF THE WORKS, TO ESTABLISH THE EXACT POSITION OF THEIR PLANT, WHICH SHALL BE CONFIRMED BY HAND DUG TRIAL PITS.
- ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH WATER SERVICES ASSOCIATION, 'SEWERS FOR ADOPTION', 7th EDITION, DEPARTMENT OF TRANSPORTS 'SPECIFICATION FOR HIGHWAY WORKS' PUBLISHED BY HMSO AND TO THE SATISFACTION OF BUILDING REGULATIONS PART H.
- ALL CONCRETE AND CONCRETE PRODUCTS BELOW GROUND LEVEL SHALL BE SULPHATE RESISTING PORTLAND CEMENT CLASS GEN3 IN ACCORDANCE WITH BRE SPECIAL DIGEST 1.
- ALL PIPE CONNECTIONS SHALL BE MADE SOFFIT TO SOFFIT.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE DRAINAGE WORKS FOR THE DURATION OF THE CONTRACT.
- DRAINS TO BE CONSTRUCTED USING FLEXIBLY JOINTED VITRIFIED CLAY PIPES TO BS 65:1991 "SUPER STRENGTH" SPECIFICATION AND BS EN 295-1:1995 (HEP WORTH SUPERSLEVE OR SIMILAR APPROVED) OR FLEXIBLY JOINTED CONCRETE PIPES TO BS 5911-1:2002 OR UPVC BUILDING DRAINAGE SYSTEM PIPE WORK TO BS EN 1401:2009, BEDDED AND BACK FILLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL TESTED IN ACCORDANCE WITH BS EN 1610:1998.
- PRIVATE FOUL WATER AND SURFACE WATER DRAINAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H (BS 8301:1985), BS EN 752:2008 AND RELEVANT AGREEMENT CERTIFICATES. ALL TESTED IN ACCORDANCE WITH BS EN 1610:1998.
- ALL MANHOLE COVERS SHALL BE BADGED 'SW' FOR SURFACE WATER AND 'FW' FOR FOUL WATER ACCORDINGLY.
- GULLY POTS SHALL BE PROVIDED WITH A HOT DIP GALVANISED STOPPER AND CHAIN WITH A BAYONET TYPE FIXING WITH A 150mm $\varnothing$ OUTLET PIPE.
- THE GULLY GRATING AND FRAME SHALL BE SET AT A LEVEL OF +/-6mm BELOW THE FINISHED GROUND LEVEL.
- ALL GULLY CONECTIONS MUST BE AIR TESTED IN ACCORDANCE WITH CL. 509 OF SHW.
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- CONCRETE COVER TO ANY OF THE PIPES MAY BE FORMED TO A RADIUS BATTER OR HORIZONTAL SURFACE.
- REINFORCED IN-SITU CONCRETE TO CL. 1700 OF SHW. UNREINFORCED IN-SITU CONCRETE TO CL. 2602 OF SHW.
- CEMENT MORTAR FOR BRICKWORK AND HAUNCHING TO MANHOLE COVERS AND FRAMES TO BE DESIGNATION (i) TO CL. 2404 OF SHW.
- 'TOKSTRIP' SEALANT OR SIMILAR APPROVED TO BE USED IN ALL PRECAST JOINTS.

P1	PRELIMINARY ISSUE	DO	KN	21.03.19
Rev:	Description	Rev:	Rev:	Date

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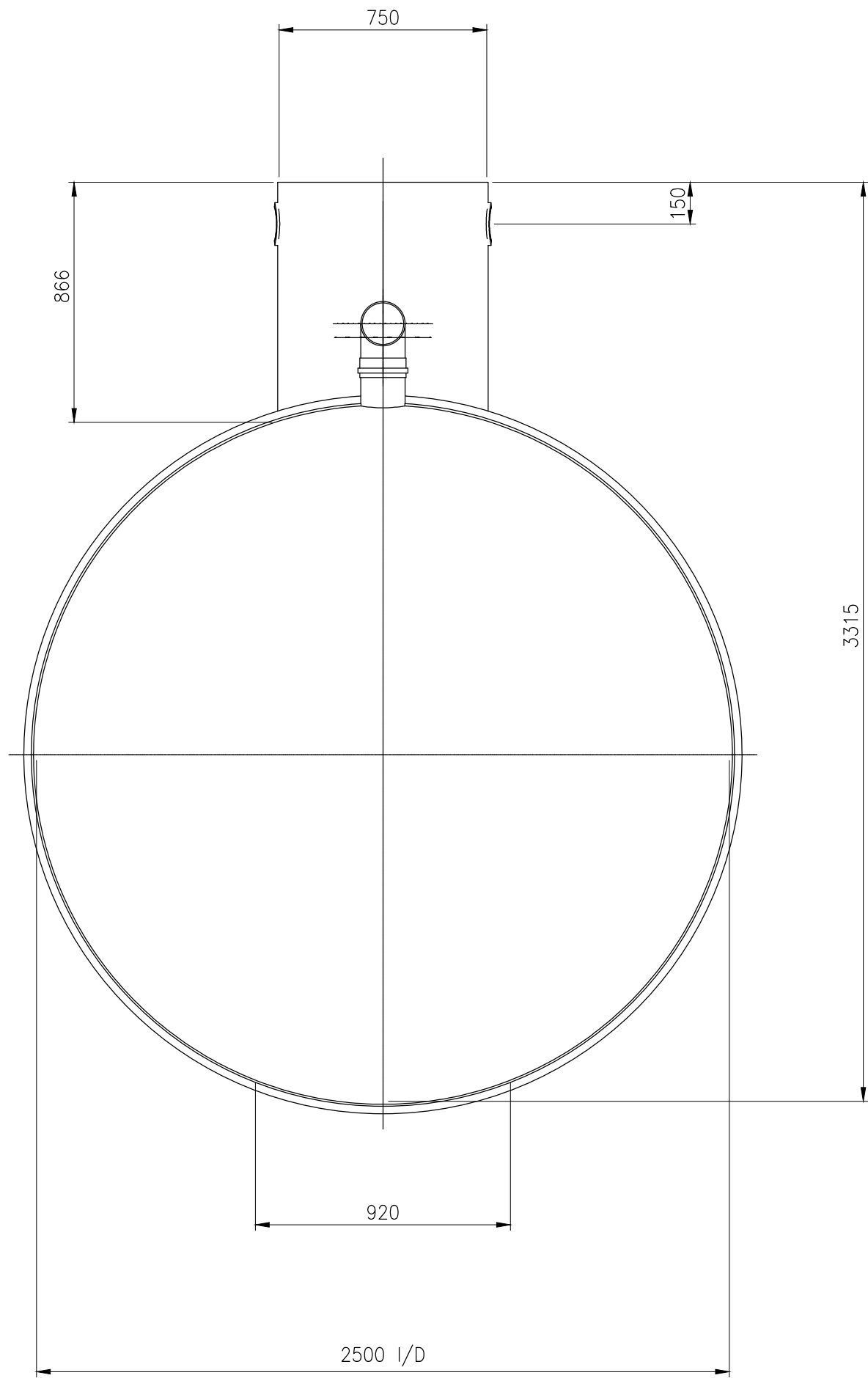
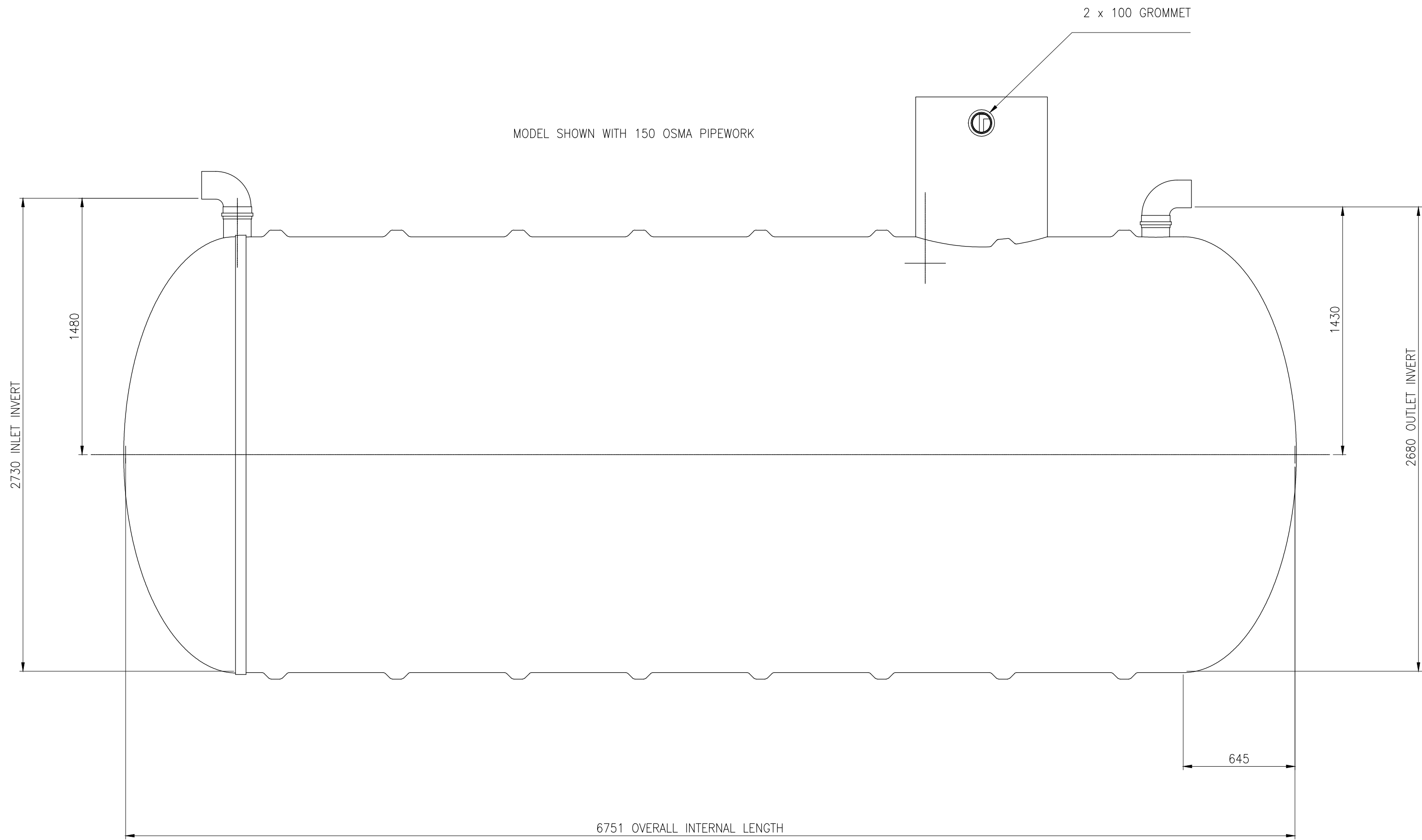
Templegate House, 115-123 High Street, Orpington, Kent, BR6 0LG
01689 896464 | www.kirksaunders.co.uk

Client:	LANDLINK ESTATES
Architect:	MOUNTFORD PIGOTT
Project:	
Drawing Title:	PROPOSED SURFACE WATER HEAD WALL DETAILS SHEET 1

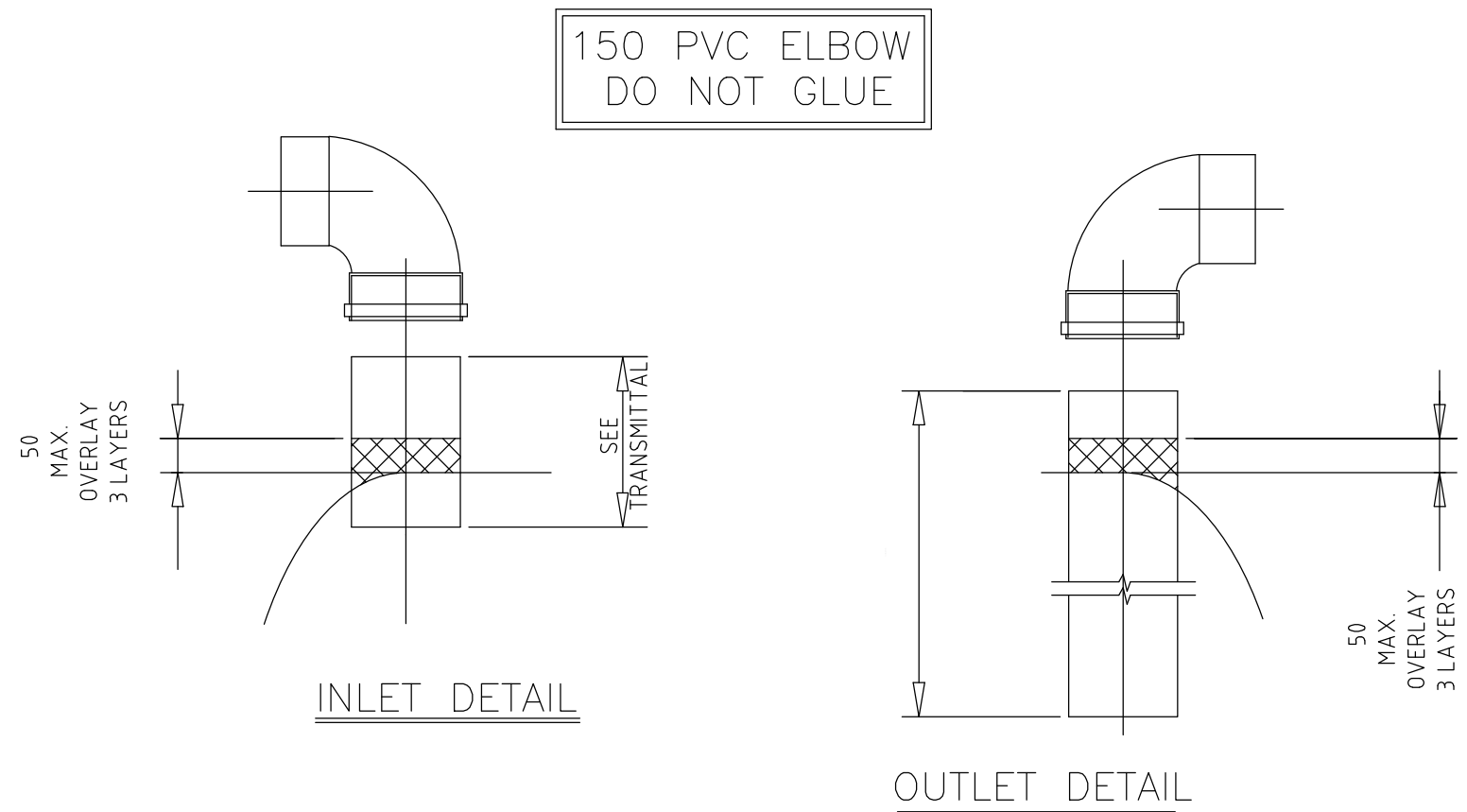
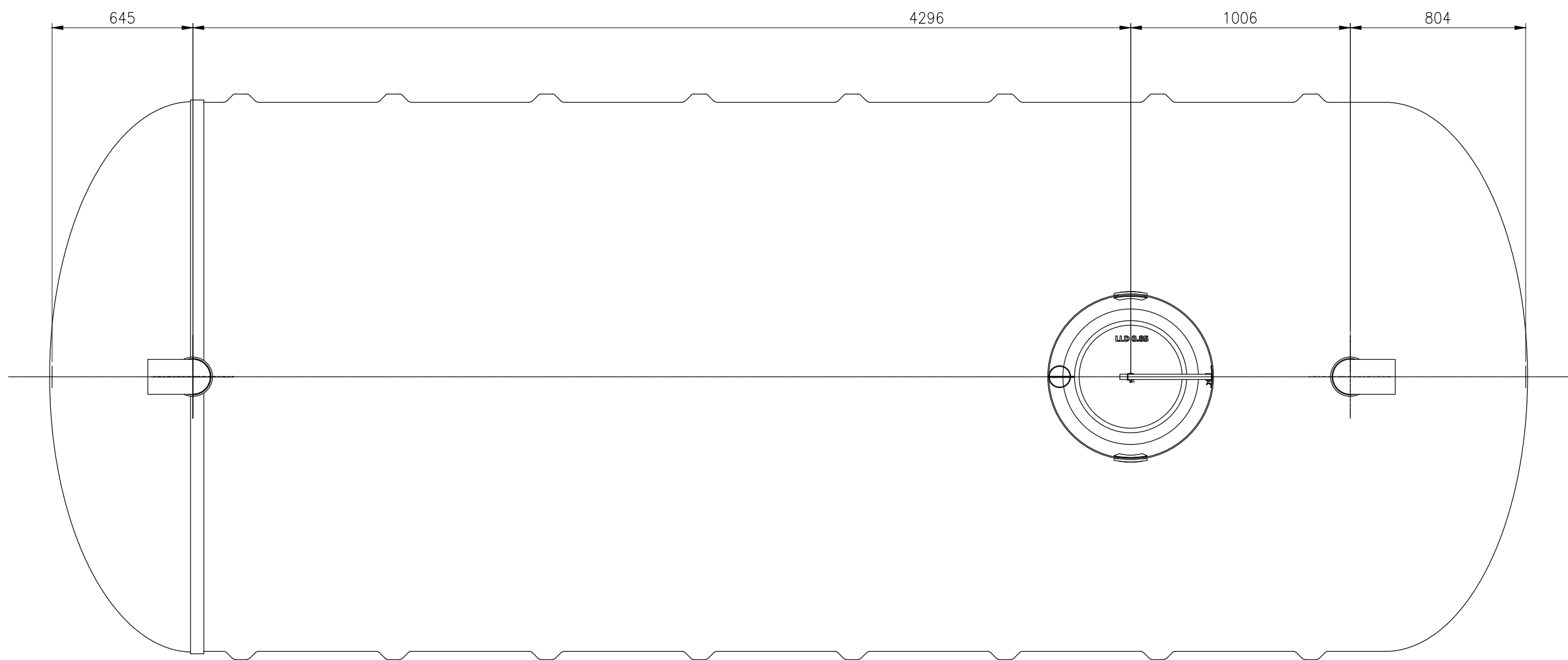
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KSA Project Number:	Suit:	Revision:
6090	D2	P1

Project:	Originator:	Zone:	Level:	Type:	Rate:	Number:
SBX KSA-Z0-XX-DR-C-6270						



1. PRODUCT INFORMATION
THE CONDER RANGE OF LIGHT LIQUID SEPARATORS IS PRODUCED FROM HIGH GRADE GRP. INLETS AND OUTLETS ARE PROVIDED AS SPIGOTS, CONNECTIONS MAY BE MADE BY STEEL-BANDED FLEXIBLE COUPLINGS, NITRILE SEAL JOINTS, ROPE-SEAL AND MORTAR OR ANY OTHER APPROPRIATE JOINTING METHOD. VENTILATION SPECIFICATIONS SHOULD BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS. VENT PIPEWORK FROM MULTIPLE CHAMBERS MUST NEVER BE MANIFOLDED BELOW GROUND LEVEL.
2. PERFORMANCE CHARACTERISTICS
SEPARATORS ARE BASED ON THE REQUIREMENTS STATED IN DRAFT EUROPEAN STANDARD PREN658-1 AND ENVIRONMENT AGENCY GUIDELINE PPG3, IN PARTICULAR:-
A. THE NOMINAL SIZE HAS BEEN ESTABLISHED FROM PERFORMANCE TESTS WHERE THE RESIDUAL OIL AT THE OUTLET IS LESS THAN 5MG/L FOR CLASS 1 SEPARATORS AND LESS THAN 100MG/L FOR CLASS 2 SEPARATORS.
3. MAINTENANCE AND USE
IT IS IMPORTANT TO RECOGNISE THAT LIGHT LIQUID SEPARATORS REQUIRE REGULAR MAINTENANCE. THE PERIOD BETWEEN MAINTENANCE OPERATIONS CAN VARY DEPENDING ON THE LOCATION AND USE OF THE SEPARATOR, THEREFORE ROUTINE INSPECTIONS SHALL BE UNDERTAKEN AT LEAST EVERY SIX MONTHS AND A LOG MAINTAINED OF INSPECTION DATE, DEPTH OF OIL, DEPTH OF SILT AND ANY CLEANING THAT IS UNDERTAKEN.
A CONDER ENVIROTECTOR SHOULD BE FITTED TO EVERY SEPARATOR TO GIVE AUTOMATIC WARNING THAT THE LIGHT LIQUID CAPACITY HAS BEEN REACHED.
ACCESS TO THE SEPARATOR SHOULD BE KEPT CLEAR AND NOT USED FOR STORAGE.
4. PRODUCT DEVELOPMENT
IN LINE WITH OUR POLICY OF CONSTANT IMPROVEMENT AND DEVELOPMENT, WE RESERVE THE RIGHT TO CHANGE SPECIFICATION WITHOUT PRIOR NOTICE.



INLET / OUTLET SPIGOT CONNECTION
HAS 360° ROTATION CAPABILITY

PIPE SIZE VARIANTS:
100, 150, 225 PVC
300, 375 GRP

GENERAL:

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2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE STATUTORY UNDERTAKERS, PRIOR TO THE COMMENCEMENT OF THE WORKS, TO ESTABLISH THE EXACT POSITION OF THEIR PLANT, WHICH SHALL BE CONFIRMED BY HAND DUG TRIAL PITS.
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7. PRIVATE FOUL WATER AND SURFACE WATER DRAINAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H, BS EN 752:2008 AND RELEVANT AGREEMENT CERTIFICATES.
8. ALL MANHOLE COVERS SHALL BE BADGED 'SW' FOR SURFACE WATER AND 'FW' FOR FOUL WATER ACCORDINGLY.
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12. RIGID PIPES ENCASED IN CONCRETE SHALL HAVE A MOVEMENT JOINT CONSISTING OF 13mm COMPRESSIBLE BOARD AROUND THE SPIGOT NEXT TO THE SOCKET, EITHER AT EACH JOINT OR NOT EXCEEDING 5 METRE INTERVALS.
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15. CEMENT MORTAR FOR BRICKWORK AND HAUNCHING TO MANHOLE COVERS AND FRAMES TO BE DESIGNATION (i) TO CL. 2404 OF SHW.
16. 'TOKSTRIP' SEALANT OR SIMILAR APPROVED TO BE USED IN ALL PRECAST JOINTS.

Rev	Issued For Information	Description	Rev	Issued For Information	Description	Rev	Issued For Information	Description
P1	ISSUED FOR INFORMATION		DO	KN	20.06.19			

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Client: LANDLINK ESTATES

Architect: MOUNTFORD PIGOTT

Project: SALTBOX SITE
BOGNOR REGIS

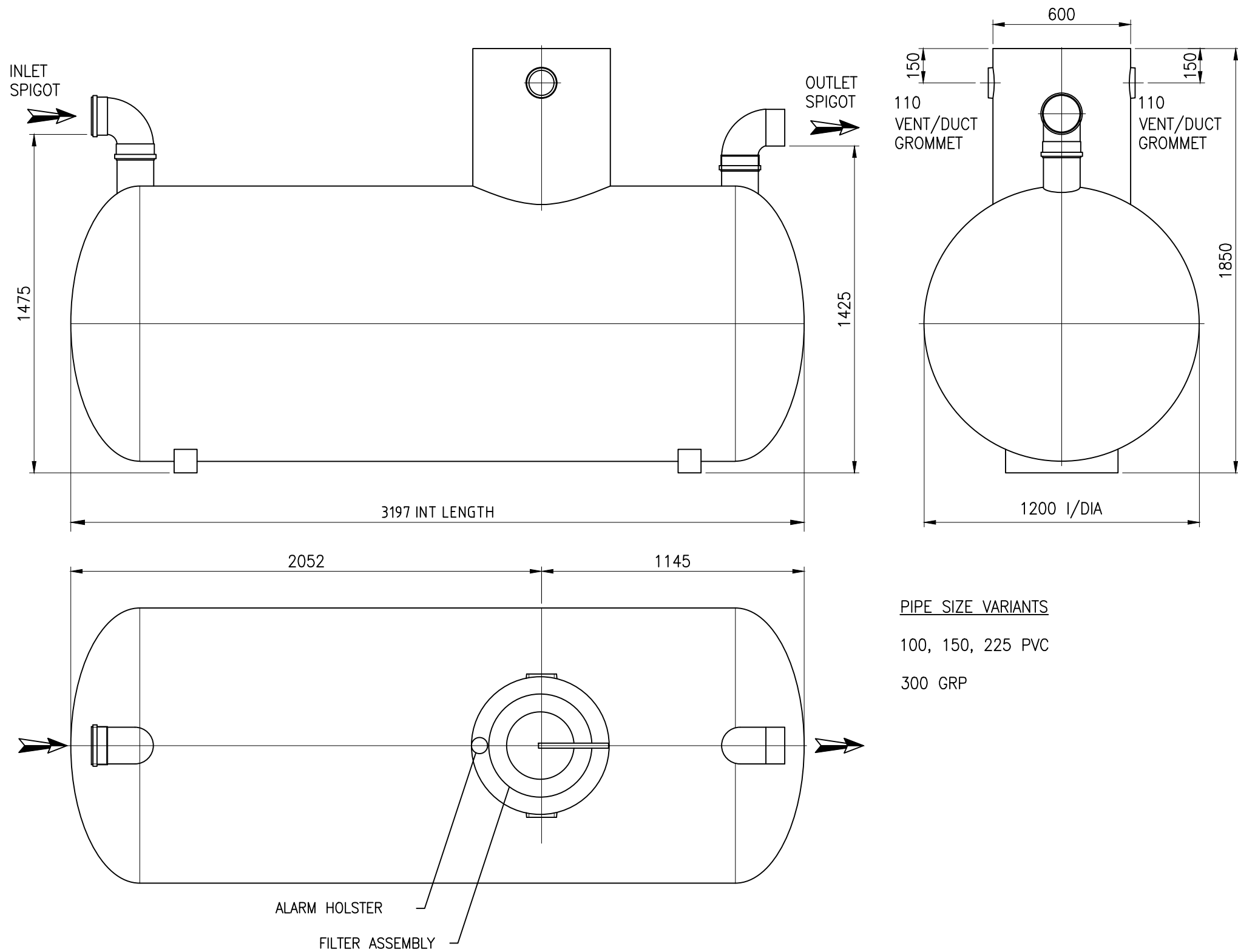
Drawing Title: FULL RETENTION SEPARATOR
DETAILS SHEET 2

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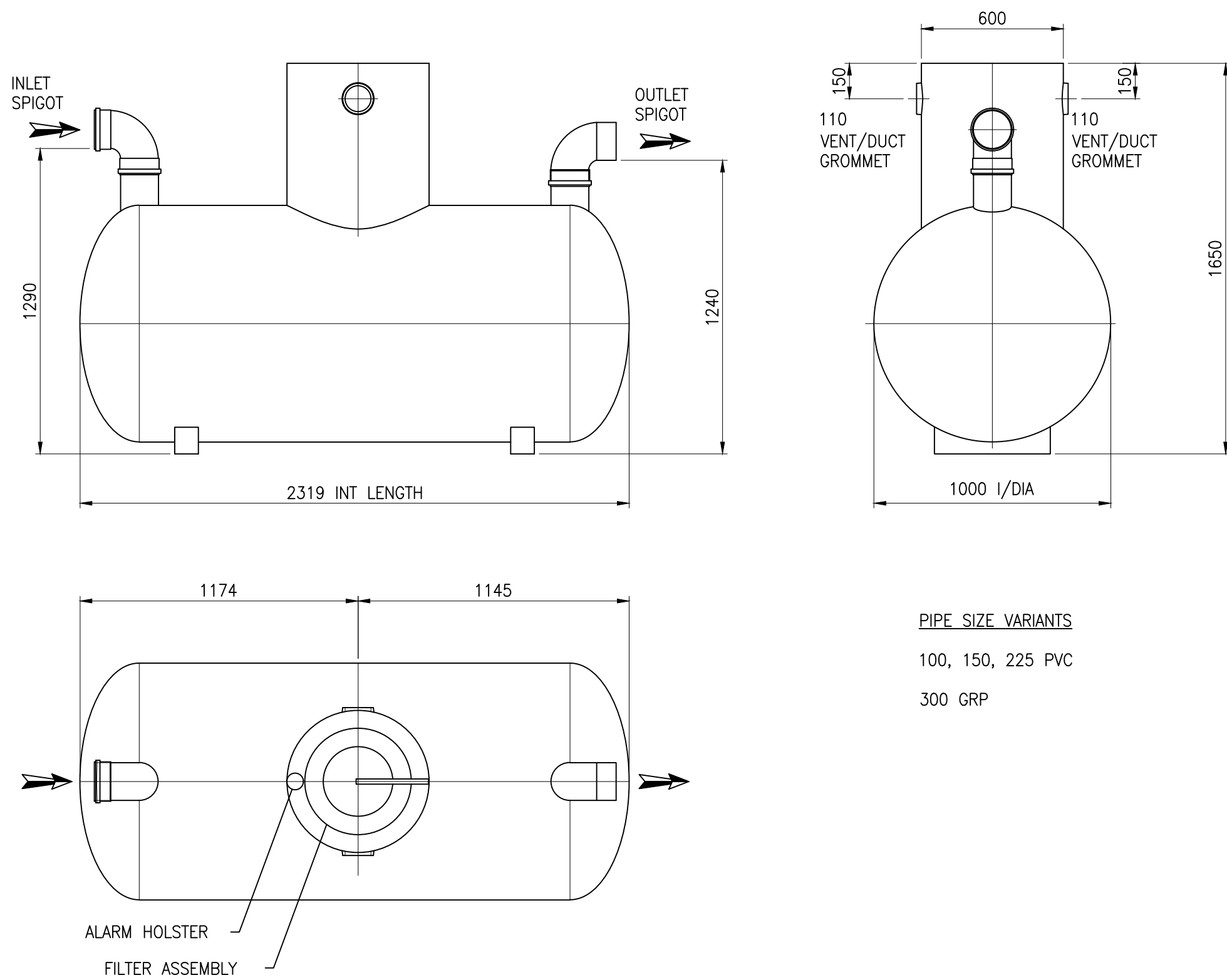
KSA Project Number:	Sub:	Revision:
6090	D2	P1

Project:	Originator:	Zone:	Level:	Type:	Role:	Number:
SBX	KSA	Z0	XX	DR	C	6267

CNS100S/11
FULL RETENTION SEPARATOR-CLASS 1



CNS8S/11
FULL RETENTION SEPARATOR-CLASS 2



CNS4S/11
FULL RETENTION SEPARATOR-CLASS 1

NOTES:

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2. PERFORMANCE CHARACTERISTICS
SEPARATORS ARE BASED ON THE REQUIREMENTS STATED IN EUROPEAN STANDARD EN858-1 AND ENVIRONMENT AGENCY GUIDELINE PPG3, IN PARTICULAR:-
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IT IS IMPORTANT TO RECOGNISE THAT LIGHT LIQUID SEPARATORS REQUIRE REGULAR MAINTENANCE. THE PERIOD BETWEEN MAINTENANCE OPERATIONS CAN VARY DEPENDING ON THE LOCATION AND USE OF THE SEPARATOR, THEREFORE ROUTINE INSPECTIONS SHALL BE UNDERTAKEN AT LEAST EVERY SIX MONTHS AND A LOG MAINTAINED OF INSPECTION DATE, DEPTH OF OIL, DEPTH OF SILT AND ANY CLEANING THAT IS UNDERTAKEN.
A CONDER ALARM SHOULD BE FITTED TO EVERY SEPARATOR TO GIVE AUTOMATIC WARNING THAT THE LIGHT LIQUID CAPACITY HAS BEEN REACHED. ACCESS TO THE SEPARATOR SHOULD BE KEPT CLEAR AND NOT USED FOR STORAGE.

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9. GULLY POTS SHALL BE PROVIDED WITH A HOT DIP GALVANISED STOPPER AND CHAIN WITH A BAYONET TYPE FIXING WITH A 150mmØ OUTLET PIPE.
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16. 'TOKSTRIP' SEALANT OR SIMILAR APPROVED TO BE USED IN ALL PRECAST JOINTS.

P1	ISSUED FOR INFORMATION	DO	KN	18.06.19
Rev	Description	Rev	Chg	Date

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Client: LANDLINK ESTATES

Architect: MOUNTFORD PIGOTT

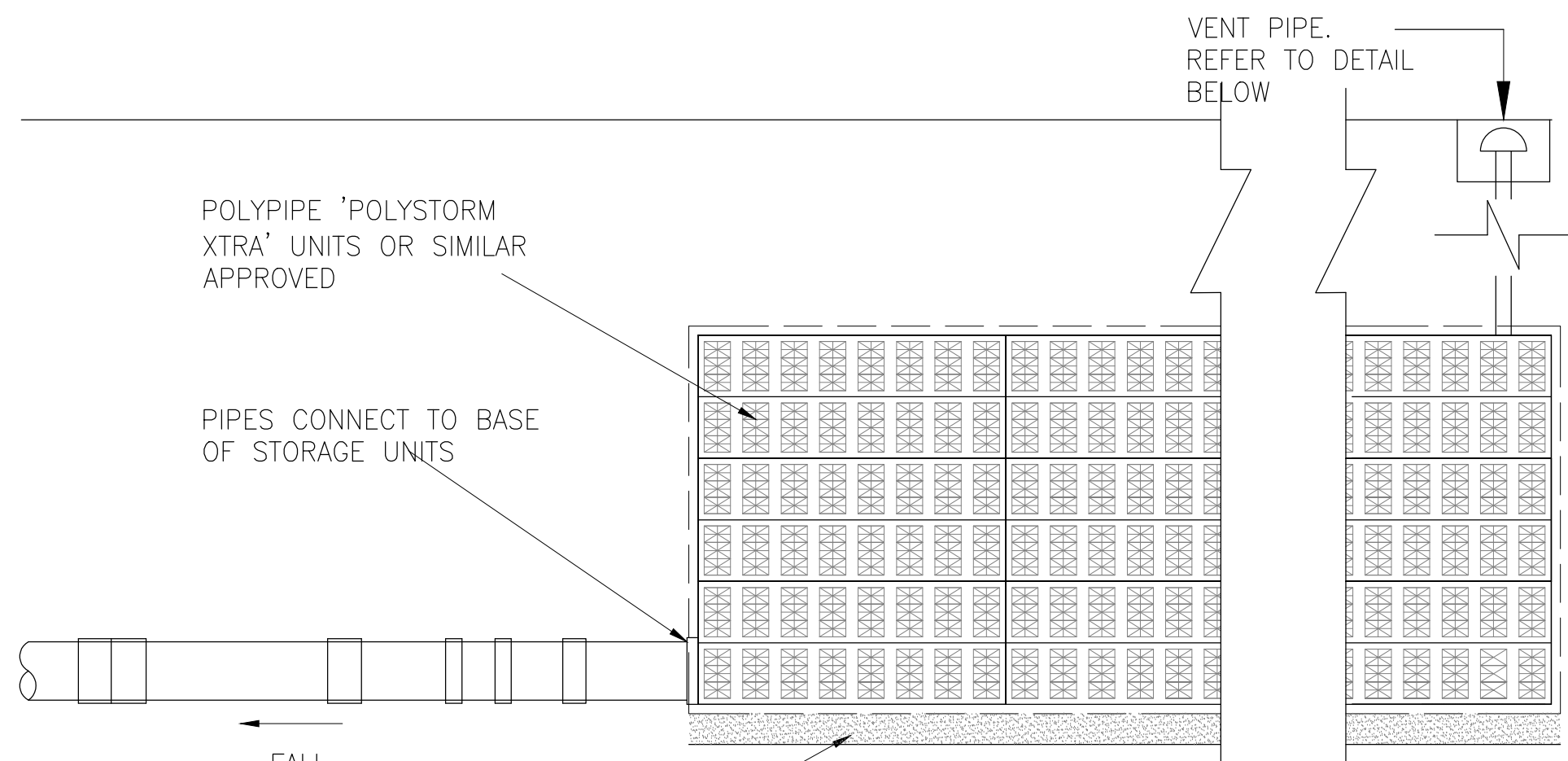
Project: SALTBOX SITE
BOGNOR REGIS

Drawing Title: FULL RETENTION SEPARATOR
DETAILS SHEET 1

Drawn:	Checked/Approved:	Date:	Sheet Size:	Scale:
DO	KJ	OCT 2018	A1	1:20

KSA Project Number:	Sub:	Revision:
6090	D2	P1

Project:	Originator:	Zone:	Level:	Type:	Role:	Number:
SBX	KSA	Z0	XX	DR	C	6266



NOTES:

- 1) SURFACE WATER STORAGE UNITS SHALL BE POLYPIPE 'POLYSTORM XTRA' UNITS OR SIMILAR APPROVED. UNITS SHALL BE INSTALLED ON 100mm SAND BED AND SURROUNDED WITH AN IMPERMEABLE GEOMEMBRANE AS SPECIFIED HEREON.
- 2) DIMENSIONS OF 'POLYSTORM XTRA' UNITS ARE 1.0m LONG x 0.50m WIDE x 0.21m DEEP TO BE ARRANGED TO THE DIMENSIONS SPECIFIED ON THE DRAINAGE GA DRAWINGS.
- 3) VENT PIPE LOCATION TO BE CONFIRMED.
- 4) TOP OF 'POLYSTORM UNITS' REQUIRE MINIMUM COVER OF 0.75 METRES IN TRAFFICKED AREAS AND 0.50 METRES IN PEDESTRIAN AREAS.

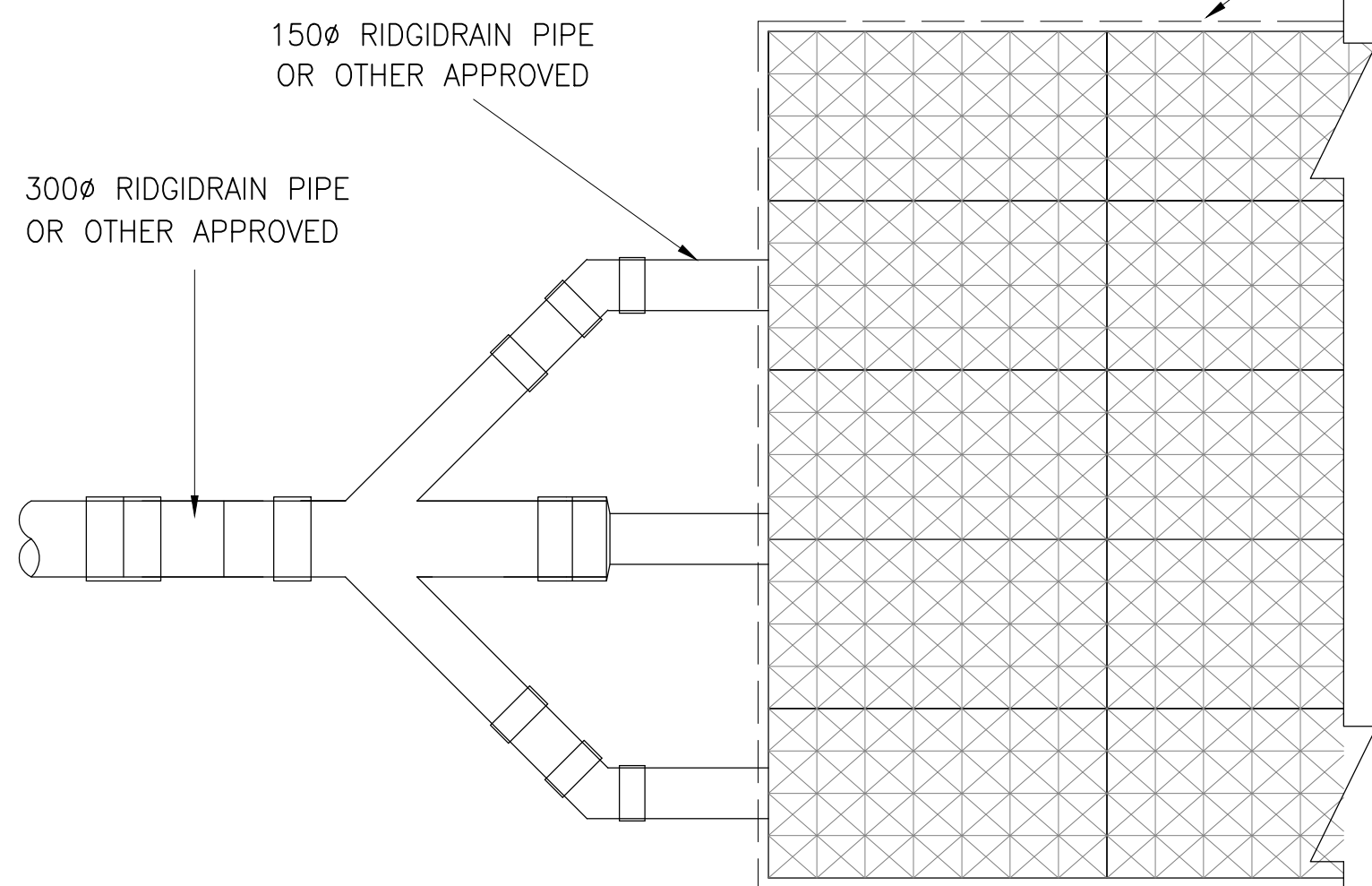
100mm SAND BEDDING FORMATION PROOF ROLLED

SECTION

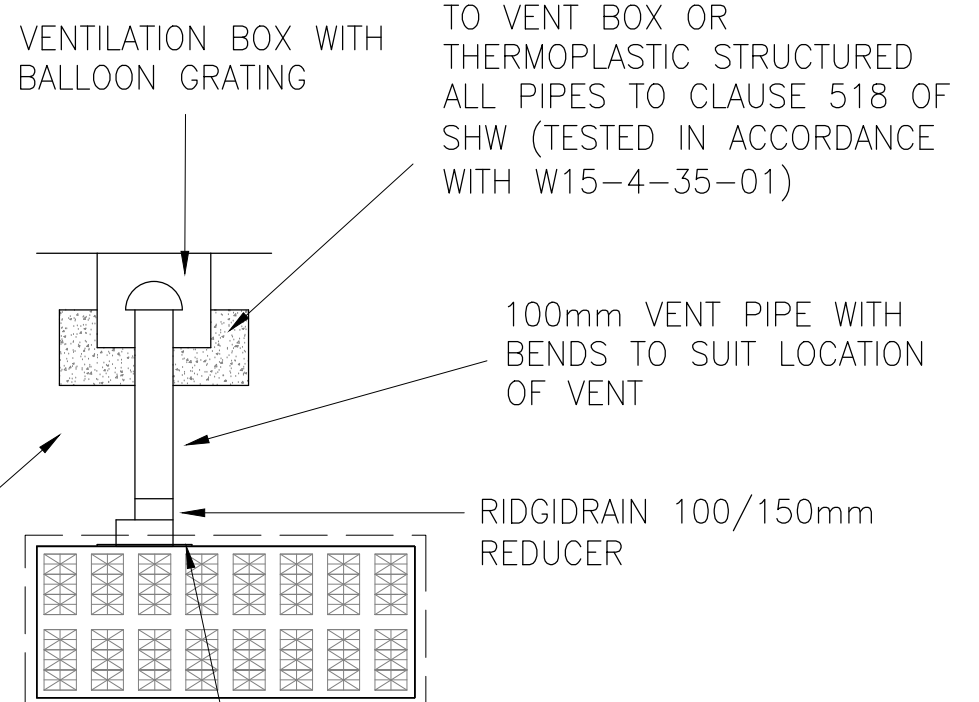
IMPERMEABLE GEOMEMBRANE AROUND ENTIRE AQUACELL UNITS. CONSTRUCT TO MANUFACTURERS SPECIFICATIONS.

150Ø RIDGIDRAIN PIPE OR OTHER APPROVED

300Ø RIDGIDRAIN PIPE OR OTHER APPROVED

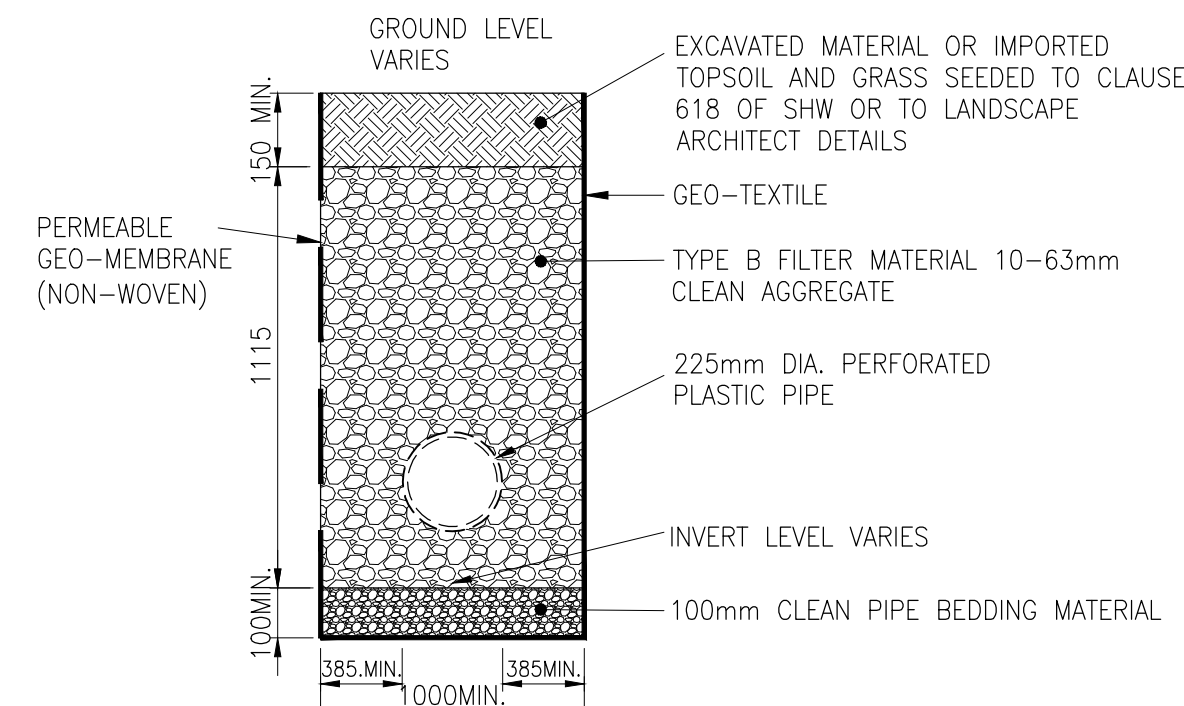


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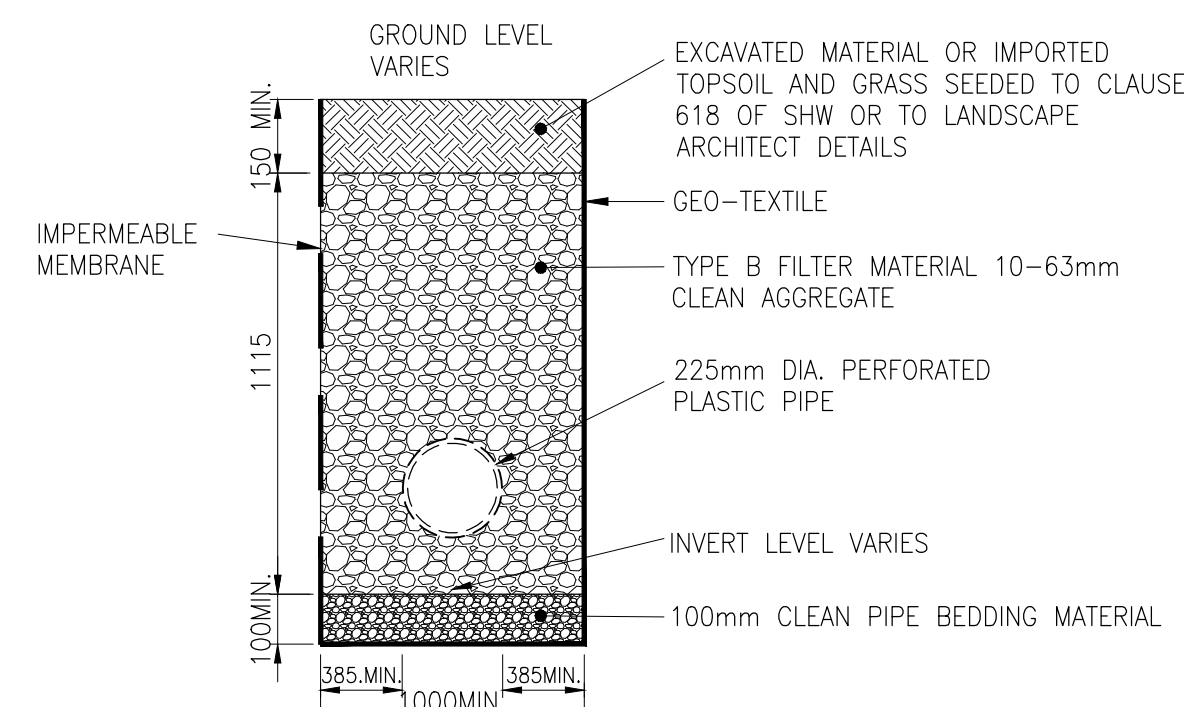


VENT DETAIL

VENT PIPE SEE NOTE 3

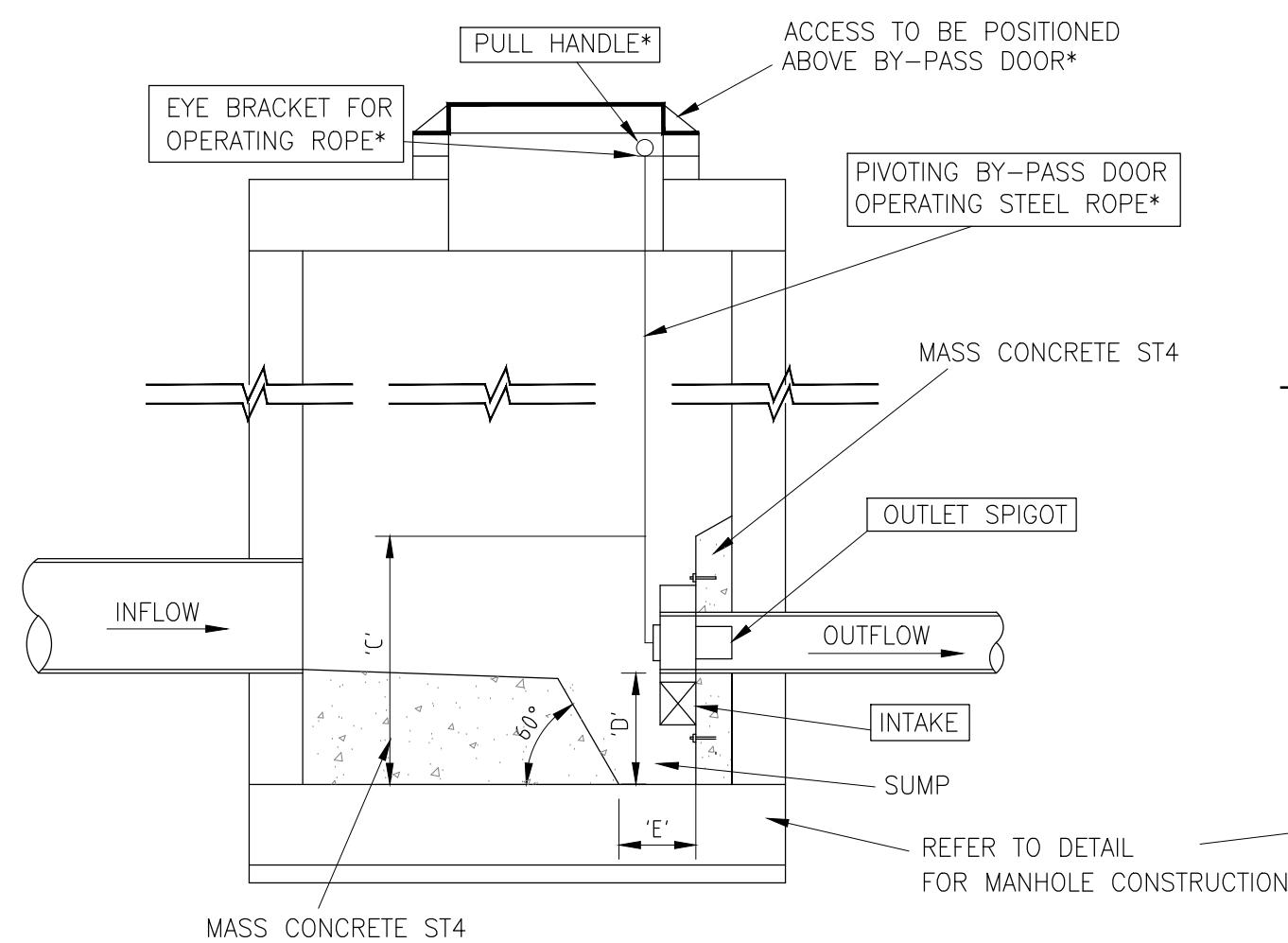
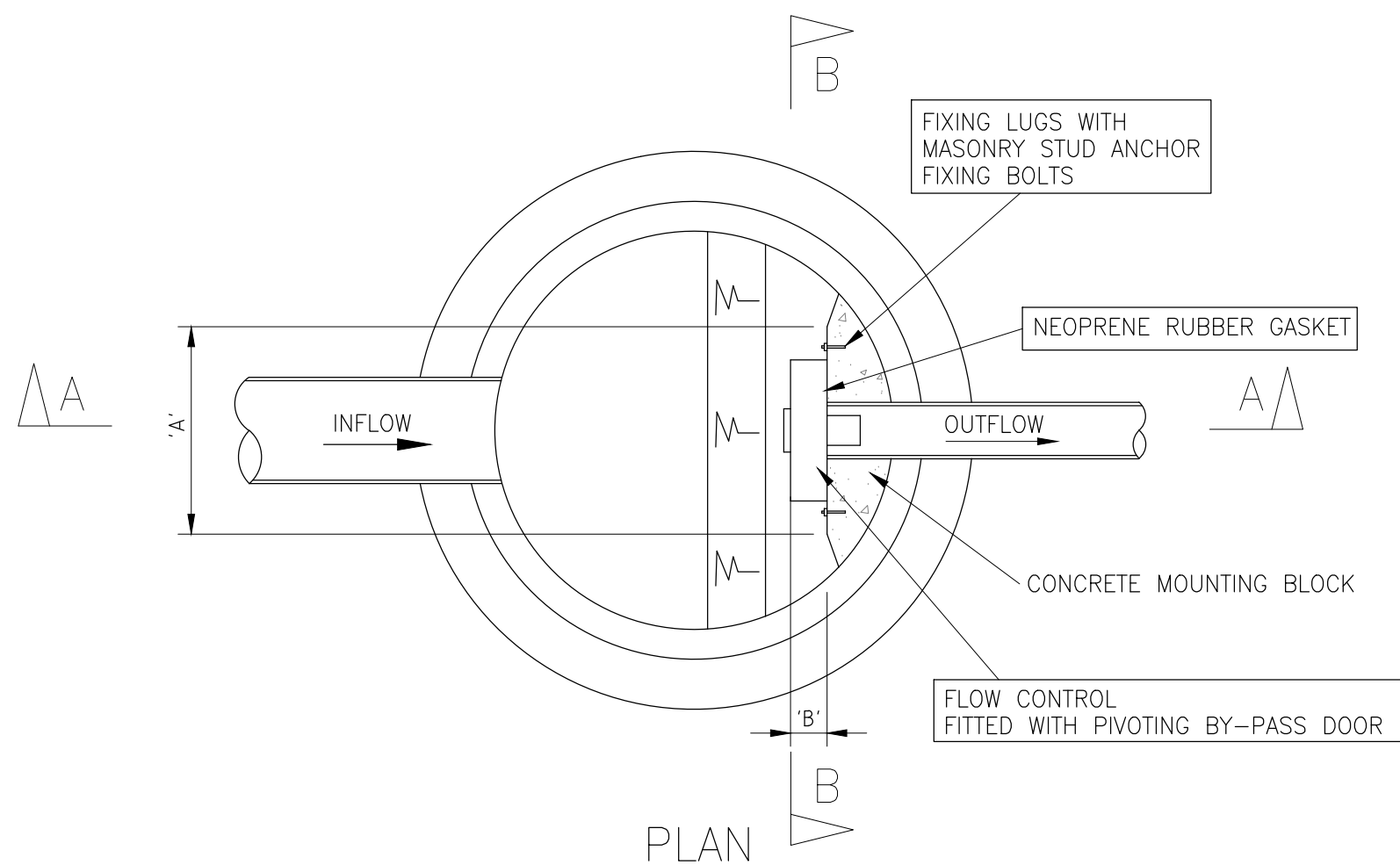


FILTER TRENCH DRAIN DETAIL OUTSIDE FLOOD ZONE

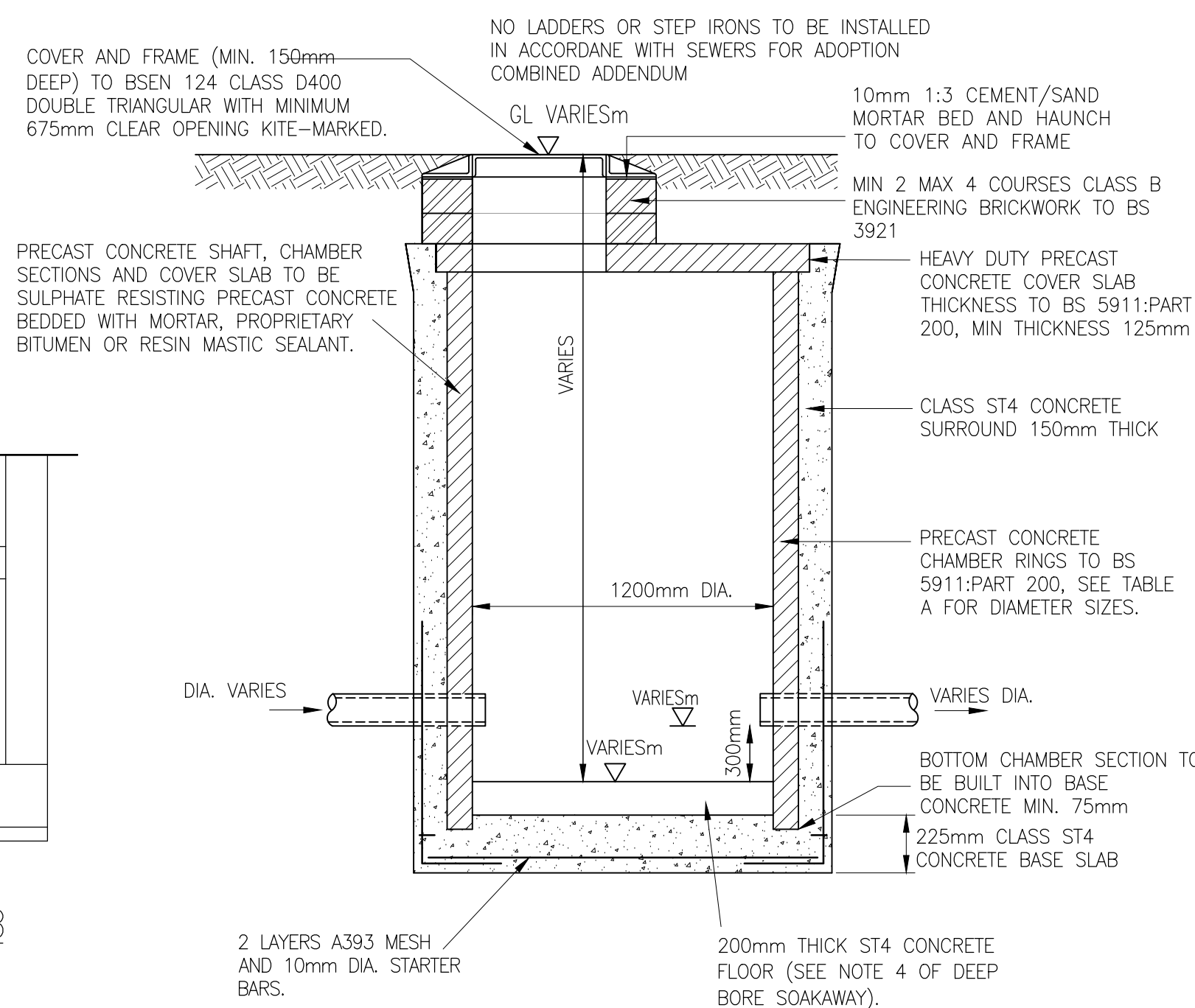
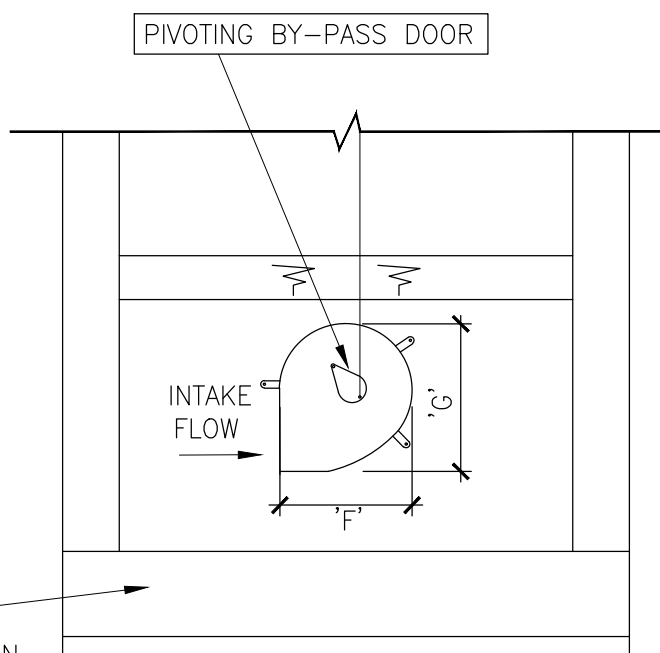


FILTER TRENCH DRAIN DETAIL INSIDE FLOOD ZONE

TYPICAL UNDERGROUND SURFACE WATER STORAGE UNIT DETAILS



TYPICAL DESIGN LAYOUT FOR PROPOSED FLOW CONTROL IN CIRCULAR MANHOLE NOT TO SCALE



REFER TO SURFACE WATER MANHOLE SCHEDULE FOR DETAILS

GENERAL:

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2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE STATUTORY UNDERTAKERS, PRIOR TO THE COMMENCEMENT OF THE WORKS, TO ESTABLISH THE EXACT POSITION OF THEIR PLANT, WHICH SHALL BE CONFIRMED BY HAND DUG TRIAL PITS.
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13. CONCRETE COVER TO ANY OF THE PIPES MAY BE FORMED TO A RADIUS BATTER OR HORIZONTAL SURFACE.
14. REINFORCED IN-SITU CONCRETE TO CL. 1700 OF SHW. UNREINFORCED IN-SITU CONCRETE TO CL. 2602 OF SHW.
15. CEMENT MORTAR FOR BRICKWORK AND HAUNCHING TO MANHOLE COVERS AND FRAMES TO BE DESIGNATION (i) TO CL. 2404 OF SHW.
16. 'TOKSTRIP' SEALANT OR SIMILAR APPROVED TO BE USED IN ALL PRECAST JOINTS.

P1	ISSUED FOR INFORMATION	DO	KN	18.06.2018
Rev	Description	Rev	Chk	Date

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Client: **LANDLINK ESTATES**

Architect: **MOUNTFORD PIGOTT**

Project: **SALTBOX SITE BOGNOR REGIS**

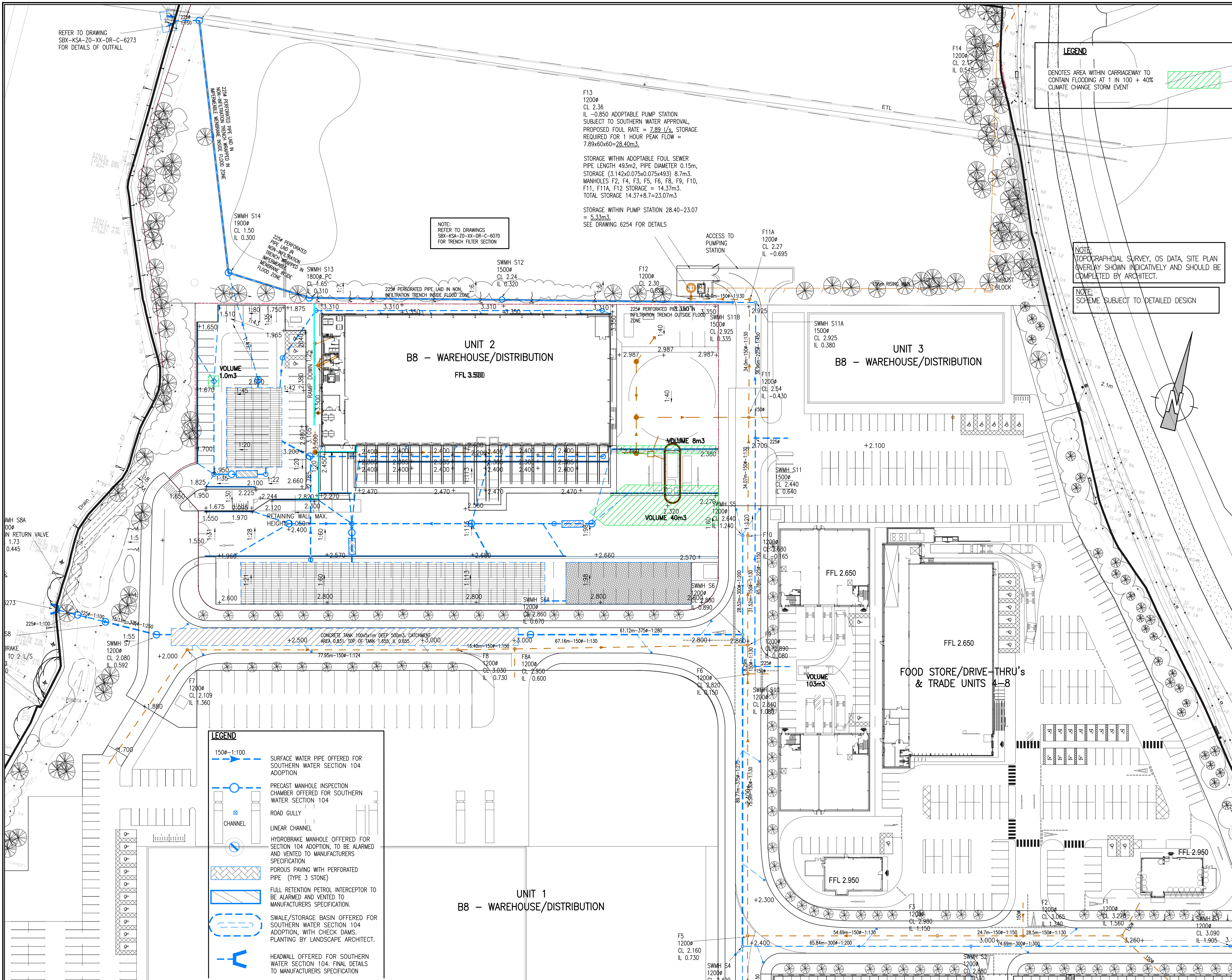
Drawing Title: **DRAINAGE DETAILS SHEET 4**

Drawn: DO	Check/App: KJ	Date: OCT 2018	Sheet Size: A1	Scale: 1:20
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KSA Project Number: 6090	Suit: D2	Revision: P1
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Project: SBX-KSA-Z0-XX-DR-C-6264	Originator: Z0	Level: XX	Type: DR	Role: C	Number: 6264
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REFER TO DRAWING
SBX-KSA-Z0-XX-DR-C-6273
FOR DETAILS OF OUTFALL



LEGEND

DENOTES AREA WITHIN CARRIAGEWAY TO
CONTAIN FLOODING AT 1 IN 100 + 40%
CLIMATE CHANGE STORM EVENT

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)
5. CAR PARKING AREAS (CLASS B125)
6. SOFT LANDSCAPING AND FOOTWAYS (CLASS A15)
7. INTERNAL MANHOLES TO HAVE DOUBLE SEALED, SCREWED DOWN COVERS AND FRAMES AS HOWE GREEN OR SIMILAR APPROVED.
8. 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	1240x675	< 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 SURROUNDING 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 OSMO 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 OSMO 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 M1000 CHANNELS WITH D.I. HEELGUARD GRATING (LOAD CLASS C250) UNLESS NOTED OTHERWISE.
SERVICE YARD, PPS & GARDEN CENTRE AREAS: Q-MAX OR M1000 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 ADAPTABLE 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 HANDS TO THE EMPLOYERS AGENT. THIS SHALL BE PRESENTED AS A SEPARATE COST ITEM, ALL TO BE AGREED WITH THE CLIENT.

P2	POND REMOVED, STORAGE TANKS ADDED	DO	KN	19.08.19
P3	POND 1 AND 1A SIZES REVISED	DO	KN	17.05.19
P1	ISSUED FOR INFORMATION	DO	KN	21.03.19

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Client: LANDLINK ESTATES

Architect: MOUNTFORD PIGOTT

Project: SALTBOX SITE
BOGNOR REGIS

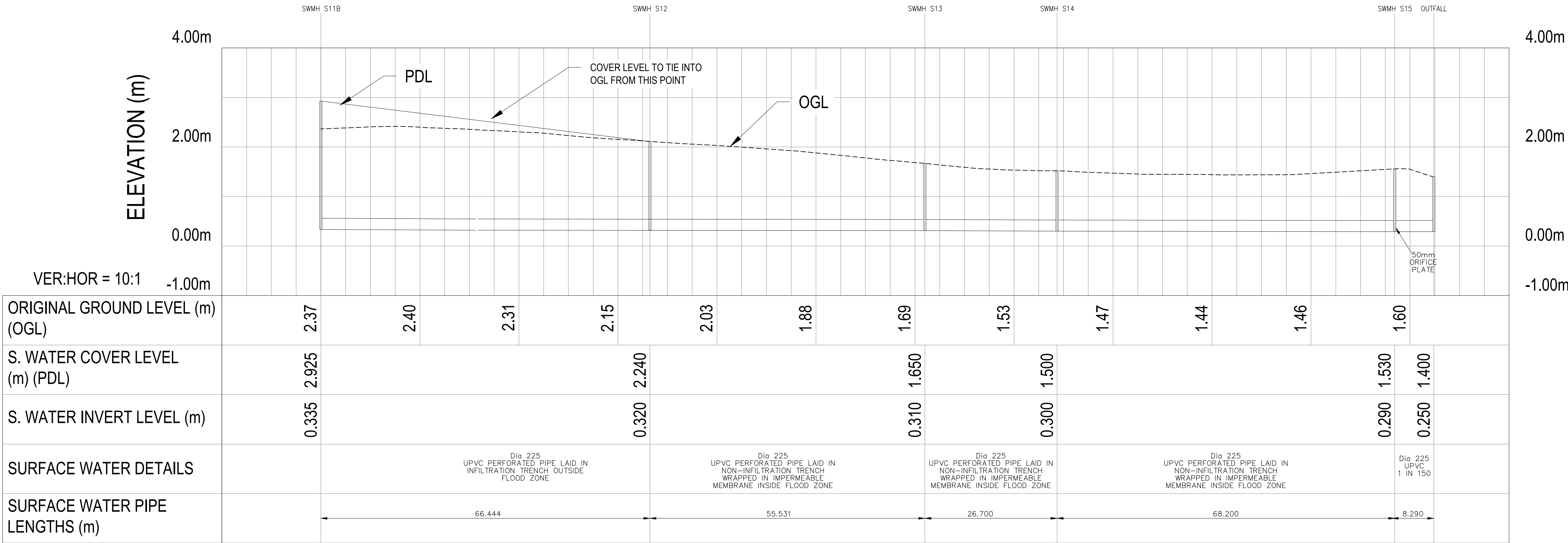
Drawing Title: PHASE 1
FLOOD EXTENDANCE PLAN FOR
1 IN 100YRS + 40% CLIMATE CHANGE

Drawn:	Checked:	Date:	Sheet Size:	Scale:
DO	KJ	OCT 2018	A1	1:500

Revision:	Revised By:	Date:	Revised Description:
6090	S2	P3	

Project: SBX KSA Z0-XX-DR-C-6260

- NOTES
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
 2. DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
 3. ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES UNLESS OTHERWISE STATED.
 4. ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
 5. NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER AND ALL SETTING OUT SHALL BE AGREED ON SITE WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORKS.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCING WORKS ON THE HIGHWAY I.E. ROAD CLOSURE NOTICES.
 7. UNLESS STATED OTHERWISE, ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AT AN APPROVED TIP OFF-SITE.
 8. THE PUBLIC HIGHWAY AND WORKS WILL BE KEPT CLEAN AND FREE OF DEBRIS BY USE OF WHEEL WASHING FACILITIES AND ROAD SWEEPERS TO THE COUNCIL'S SATISFACTION.
 9. BACK FILLING OF DRAIN TRENCHES ADJACENT TO DWELLINGS OF OTHER STRUCTURES TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H; DIAGRAM 8.
 10. DRAINS IN AREAS OF MADE GROUND TO BE CONSTRUCTED BY FIRST MAKING UP THE AREA TO APPROXIMATELY FINISHED LEVEL AND THEN EXCAVATE THROUGH THE FILL MATERIAL INTO UNDISTURBED GROUND. THE DRAIN TRENCH IS THEN TO BE BACK FILLED TO FORMATION LEVEL USING SUITABLE GRANULAR FILL MATERIAL WELL COMPACTED IN LAYERS NOT EXCEEDING 225mm.
 12. ALL COVERS IN PRIVATE AREAS FOR PEDESTRIANS AND INACCESSIBLE TO WHEELED VEHICLES SHOULD BE GROUP 1 CLASS A15 OR CLASS 2 B125, AND IN VEHICULAR AREAS GROUP 3 CLASS C250 OR GROUP 4 CLASS D400.
 13. NO SEWER SHALL BE ABANDONED UNTIL THE CONTRACTOR HAS CONFIRMED THAT THERE ARE NO CONNECTIONS REMAINING.



SURFACE WATER TRENCH LONG SECTION 1
REFER TO DRAWING SBX-KSA-Z0-XX-DR-C-6800 FOR MANHOLE NUMBERING

P1	PRELIMINARY ISSUE	KN	DO	19.06.19
Rev.	Description	Dim	Chk	Date

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Client:
LANDLINK ESTATES

Architect:
MOUNTFORD PIGOTT

Project:
SALTBOX SITE
BOGNOR REGIS

Drawing Title:
SURFACE WATER TRENCH
LONGITUDINAL SECTION
SHEET 1

Drawn: KN	Chkd/Appd: DO	Date: 06/2019	Sheet Size: A1	Scale: AS SHOWN
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KSA Project Number: 6471	Sub: S2	Revision: P01
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Project:	Originator:	Zone:	Level:	Type:	Rate:	Number:
SBX · KSA · Z0 · XX · DR · C · 6070						



NOTE: TOPOGRAPHICAL SURVEY, OS DATA, SITE PLAN OVERLAY SHOWN INDICATIVELY AND SHOULD BE COMPLETED BY ARCHITECT.	
NOTE: SCHEME SUBJECT TO DETAILED DESIGN	
NOTE: DRAINAGE STRATEGY SUBJECT TO APPROVAL FROM ARUN DISTRICT COUNCIL.	
NOTE: REFER TO DRAWINGS SBX-KSA-ZO-XX-DR-C-6266 & 6267 FOR FULL RETENTION PETROL SEPARATOR DETAILS. REFER TO DRAWINGS SBX-KSA-ZO-XX-DR-C-6264 FOR CELLULAR TANK DETAILS.	
NOTE: ALL FOUL WATER PIPES TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE. ALL SURFACE WATER PIPES TO BE 150mm DIAMETER UNLESS NOTED OTHERWISE.	

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 SEWER 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)

5. SOFT LANDSCAPING AND FOOTWAYS (CLASS A15)

6. INTERVALLARY MANHOLELS TO HAVE DOUBLE SEATED, SCREWED DOWN COVERS AND FRAMES AS HOW GREEN OR SIMILAR APPROVED.

7. MANHOLE DETAILS - (MINIMUM REQUIREMENTS ONLY)

DEPTH mm	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.	1500 DIA	< 1000	600 CLEAR
< 3.60	P.C.	AS < 3.0 DEPTH BUT WITH 900 DIA.		ACCESS SHAFT
1.0-1.50	BRICK	900x675	< 225	600 CLEAR
1.0-1.50	BRICK	1240x675	< 225	1200x600
1.50-3.00	BRICK	1240x750	< 225	600 CLEAR
< 1.2	PPIC	475 DIA	< 150/160	475 CLEAR
1.2-3.00	PPIC	475 DIA	< 150/160	340 CLEAR

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

	6. EXTERNAL PIPE BEDDING – UNLESS NOTED OTHERWISE – SEE SPECIFICATION.			
	CLASS B: 100mm MINIMUM GRANULAR BED WITH SELECTED BACKFILL TO 300mm ABOVE CROWN OF THE PIPE			
	CLASS B: 100mm MINIMUM GRANULAR BED & HAUNCH TO HALF PIPE HEIGHT WITH SELECTED BACKFILL TO 300mm ABOVE CROWN OF THE PIPE			
	Z: INTERNAL PIPE RUNS UNDER BUILDINGS, ETC. TO HAVE 100mm MINIMUM GRANULAR BED AND SURROUND WITH SELECTED BACKFILL. WHERE PIPE IS WITHIN 30% OF THE UNDERSIDE OF SLAB 150 MINIMUM CONCRETE SURROUND TO BE PROVIDED			
	8. ALL WATER PIPES TO HAVE SUFFICIENT RODDING POINTS OR INCORPORATED GULLIES WHERE REQUIRED.			
	9. ALL ROAD GULLIES TO BE TRAPPED & HAVE 150mm DIA. OUTLETS TO STREET. OTHER THAN SEWERS, ALL ROADS TO BE TRAPPED AT 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 EXTRUDER TYPE. LARGER DIAMETERS TO BE CAST IRON FIBRING 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 / ULTRARUBY TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED. ALL INSTALLED TO MANUFACTURERS 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 – SIMILAR APPROVED. ALL INSTALLED TO MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE.			
	14. DRAINAGE CHANNELS TO BE AS "ACO" OR SIMILAR APPROVED AS FOLLOWS: CAR PARKS : Q-MAX OR M1000 CHANNELS TO D.L. HEELGARD SEWER SERVICE YARDS, PMS & GARDEN CENTRE AREAS : Q-MAX OR M1000 CHANNELS WITH D.L. GRATING (L/D CLASS D4000 UNLESS NOTED OTHERWISE).			
	15. ALL DRAINS TO HAVE 150 DIA. TRAPPED GULLIES OR SLUMP UNITS WITH TRASH BUCKETS TO SUIT UNLESS NOTED OTHERWISE. THE CONTRACTOR TO LIASE WITH CHANNEL MANUFACTURER (ACO) WITH REGARD TO DESIGN, DETAILS AND PART COMPONENT ARRANGEMENT, ETC.			
	16. ADVISORY NOTE TO ADVISE ON FINAL POSITIONS OF RAINWATER PIPES AND FOUTALLER OUTLETS IN GROUND FLOOR SLAB.			
	16. EXISTING SEWERS WHICH ARE OR WILL BE DISUSED ARE TO BE TRACED, AND ANY DRAN WHICH SHOWS SIGNS OF FLOW SHOULD BE REPORTED TO EMPLOYERS TO ESTABLISH OWNERS 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 RECORDS OF WORK TO BE PREPARED TO BE 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, DRAWINGS 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 HANDDED TO THE EMPLOYMENT AGENT. THIS INFORMATION SHALL BE PRESENTED AS A SEPARATE COST ITEM, ALL TO BE AGREED WITH THE CLIENT.			
Pd	Description	Do	Rk	Date
Pd	DRAINAGE STRATEGY REVISED TO TASK OPTION	Do	Rk	20.06.19
Pd	DRAINAGE STRATEGY REVISED TO TASK OPTION	Do	Rk	04.06.19
P4	REVISED TO SUIT PLANNING CONDITION	Do	Sht	26.04.19
P3	REVISED TO SUIT LATER ARCHITECT'S DRAWING. ISSUED FOR TENDER	Do	Sht	23.11.18
P4	REVISED TO SUIT LATEST ARCHITECT'S DRAWINGS	Do	Sht	09.11.18
P4	ISSUED FOR INFORMATION	Do	Sht	29.10.18

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Client:		LANDLINK ESTATES			
Architect:		MOUNTFORD PIGOTT			
Project:		SALTBOX SITE BOGNOR REGIS			
Drawing Title:		UNIT 2 DRAINAGE LAYOUT			
Drawn:	Checked/Approved:	Date:	Sheet Size:	Scale:	
DO	KJ	JULY 2017	A1	1:250	
KSA Project Number:				Suit:	Revision:
6090				D2	P6
Project: Originator: Zone: Level: Type: Role: Number:					
6090 KSA-Z0-XX-DR-C-6050					

DOCUMENT REGISTER AND ISSUE SHEET

Saltbox Site

Project title

6090

IS2

24.06.19.1

Project No.

Doc No.

Rev

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Mountford Piggot	Ian Robinson		E	E	E									
Quartz Project Services	Keith Sarchett				E					E	E	E	E	
Marsh & Baxter	Will Marsh				E		E	E		E	E	E	E	E
Quartz Project Services	Keith Sarchett						E	E		E	E			
Quartz Project Services	Chris Trippleton						E	E		E	E	E	E	E
Mountford Piggot	Michael Whitwell						E	E	E	E	E	E	E	E
Scotch & Partners	Julian Bunting									E	E	E	E	E
Mountford Piggot	Trevor Scale									E	E	E		
Adlhighways	Tony Chapman													
Southern Water	Developer Services													
Arun District Council	Laura Gibbons													
Environment Agency	Eleonora Pilla													
Midas Group	Richard Matthews													

DOCUMENT REFERENCE	DOCUMENT TITLE	SUITABILITY CODE / REVISION CODE												
SBX-KSA-Z0-XX-DR-C-6000	Prelim Drainage Strategy Sheet 1 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6001	Prelim Drainage Strategy Sheet 2 of 9	P1	P2	P3	P4									
SBX-KSA-Z0-XX-DR-C-6002	Prelim Drainage Strategy Sheet 3 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6003	Prelim Drainage Strategy Sheet 4 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6004	Prelim Drainage Strategy Sheet 5 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6005	Prelim Drainage Strategy Sheet 6 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6006	Prelim Drainage Strategy Sheet 7 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6007	Prelim Drainage Strategy Sheet 8 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6008	Prelim Drainage Strategy Sheet 9 of 9	P1	P2		P3									
SBX-KSA-Z0-XX-DR-C-6050	Unit 2 Drainage layout									P1	P2			D2/ P3
SBX-KSA-Z0-XX-DR-C-6070	Infiltration Trench Longsection													
SBX-KSA-Z0-XX-DR-C-6101	Phase 1 Drainage Strategy Sheet 1 of 3									P1	P2			D2/ P3
SBX-KSA-Z0-XX-DR-C-6102	Phase 1 Drainage Strategy Sheet 2 of 3									P1	P2			D2/ P3
SBX-KSA-Z0-XX-DR-C-6103	Phase 1 Drainage Strategy Sheet 3 of 3									P1	P2	P3		D2/ P4
SBX-KSA-Z0-XX-DR-C-6120	Surface Water Drainage Network													
SBX-KSA-Z0-XX-DR-C-6110	UNITS 4 - 8 DRAINAGE STRATEGY													
SBX-KSA-Z0-XX-DR-C-6111	UNITS 9 CAR SHOWROOM DRAINAGE STRATEGY													
SBX-KSA-Z0-XX-DR-C-6112	UNIT 3 WAREHOUSE DRAINAGE STRATEGY													
SBX-KSA-Z0-XX-DR-C-6113	UNIT 1 WAREHOUSE DRAINAGE STRATEGY													

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Saltbox Site																	
Project title																	
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DISTRIBUTION				ISSUED													
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Mountford Piggot		Ian Robinson							E							E	E
Quartz Project Services		Keith Sarchett					E		E							E	E
Marsh & Baxter		Will Marsh					E		E							E	E
Quartz Project Services		Keith Sarchett							E			E	E				
Quartz Project Services		Chris Trippleton					E	E	E							E	E
Mountford Piggot		Michael Whitwell					E	E					E	E			E
Scotch & Partners		Julian Bunting					E										
Mountford Piggot		Trevor Scale															
Adlhighways		Tony Chapman															
Southern Water		Developer Services						E									
Arun District Council		Laura Gibbons							E							E	E
Environment Agency		Eleonora Pilla										E					
Midas Group		Richard Matthews											E	E			
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SBX-KSA-Z0-XX-DR-C-6000		Prelim Drainage Strategy Sheet 1 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6001		Prelim Drainage Strategy Sheet 2 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6002		Prelim Drainage Strategy Sheet 3 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6003		Prelim Drainage Strategy Sheet 4 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6004		Prelim Drainage Strategy Sheet 5 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6005		Prelim Drainage Strategy Sheet 6 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6006		Prelim Drainage Strategy Sheet 7 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6007		Prelim Drainage Strategy Sheet 8 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6008		Prelim Drainage Strategy Sheet 9 of 9		WITHDRAWN													
SBX-KSA-Z0-XX-DR-C-6050		Unit 2 Drainage layout		P5													P6
SBX-KSA-Z0-XX-DR-C-6070		Infiltration Trench Longsection															P1
SBX-KSA-Z0-XX-DR-C-6101		Phase 1 Drainage Strategy Sheet 1 of 3				P3	P1		P5								
SBX-KSA-Z0-XX-DR-C-6102		Phase 1 Drainage Strategy Sheet 2 of 3				P3	P1		P5								
SBX-KSA-Z0-XX-DR-C-6103		Phase 1 Drainage Strategy Sheet 3 of 3			D2/ P5	P5	P1		P7	P7							
SBX-KSA-Z0-XX-DR-C-6120		Surface Water Drainage Network					P1										
SBX-KSA-Z0-XX-DR-C-6110		UNITS 4 - 8 DRAINAGE STRATEGY					P2										
SBX-KSA-Z0-XX-DR-C-6111		UNITS 9 CAR SHOWROOM DRAINAGE STRATEGY					P1										
SBX-KSA-Z0-XX-DR-C-6112		UNIT 3 WAREHOUSE DRAINAGE STRATEGY					P1										
SBX-KSA-Z0-XX-DR-C-6113		UNIT 1 WAREHOUSE DRAINAGE STRATEGY					P1										

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DOCUMENT REFERENCE	DOCUMENT TITLE	SUITABILITY CODE / REVISION CODE												
SBX-KSA-Z0-XX-DR-C-6201	DRAINAGE STRATEGY PLANNING SHEET 1 OF 3													
SBX-KSA-Z0-XX-DR-C-6202	DRAINAGE STRATEGY PLANNING SHEET 2 OF 3													
SBX-KSA-Z0-XX-DR-C-6203	DRAINAGE STRATEGY PLANNING SHEET 3 OF 3													
SBX-KSA-Z0-XX-DR-C-6273	OUTFALL AND CONTROL DETAILS													
SBX-KSA-Z0-XX-DR-C-6258	PHASE 1 A POND SECTIONS													
SBX-KSA-Z0-XX-DR-C-6251	DRAINAGE DETAILS SHEET 1 OF 3													D2/P1
SBX-KSA-Z0-XX-DR-C-6252	DRAINAGE DETAILS SHEET 2 OF 3													D2/P1
SBX-KSA-Z0-XX-DR-C-6253	DRAINAGE DETAILS SHEET 3 OF 3													D2/P1
SBX-KSA-Z0-XX-DR-C-6254	Phase 1 Foul pumping station Details													
SBX-KSA-Z0-XX-DR-C-6259	CULVERT DETAILS													
SBX-KSA-Z0-XX-DR-C-6256	TYPICAL POND SECTION													
SBX-KSA-Z0-XX-DR-C-6500	External Levels			P1	P2			P3		P4				D2/P5
SBX-KSA-Z0-XX-DR-C-6270	PROPOSED HEADWALL DETAILS SHEET 1													
SBX-KSA-Z0-XX-DR-C-6510	ROAD DESIGN LAYOUT													
SBX-KSA-Z0-XX-DR-C-6520	ROAD DESIGN LONG SECTIONS													
SBX-KSA-Z0-XX-DR-C-6530	KERB LAYOUT													
SBX-KSA-Z0-XX-DR-C-6271	PROPOSED HEADWALL DETAILS SHEET 2													
SBX-KSA-Z0-XX-DR-C-6260	Flood Exceedance plan for 1 in 100+40% Clomate change													
SBX-KSA-Z0-XX-DR-C-6551	EXTERNAL WORKS DETALS SHEET 1 OF 2													D2/P1
SBX-KSA-Z0-XX-DR-C-6552	EXTERNAL WORKS DETALS SHEET 2 OF 2													D2/P1
SBX-KSA-Z0-XX-DR-C-6264	Drainage Details Sheet 4													
SBX-KSA-Z0-XX-DR-C-6266	Full Retention Separator Details Sheet 1													
SBX-KSA-Z0-XX-DR-C-6267	Full Retention Separator Details Sheet 2													

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SBX-KSA-Z0-XX-DR-C-6202	DRAINAGE STRATEGY PLANNING SHEET 2 OF 3	S2/P1												
SBX-KSA-Z0-XX-DR-C-6203	DRAINAGE STRATEGY PLANNING SHEET 3 OF 3	S2/P1												
SBX-KSA-Z0-XX-DR-C-6273	OUTFALL AND CONTROL DETAILS								P2	P2			P3	
SBX-KSA-Z0-XX-DR-C-6258	PHASE 1 A POND SECTIONS									P2				
SBX-KSA-Z0-XX-DR-C-6251	DRAINAGE DETAILS SHEET 1 OF 3							P1		P1				
SBX-KSA-Z0-XX-DR-C-6252	DRAINAGE DETAILS SHEET 2 OF 3							P1		P1				
SBX-KSA-Z0-XX-DR-C-6253	DRAINAGE DETAILS SHEET 3 OF 3						D2/P2	P1					WITHDRAWN	
SBX-KSA-Z0-XX-DR-C-6254	Phase 1 Foul pumping station Details	D2/P1								P2				
SBX-KSA-Z0-XX-DR-C-6259	CULVERT DETAILS									P1	P1			
SBX-KSA-Z0-XX-DR-C-6256	TYPICAL POND SECTION							P1						
SBX-KSA-Z0-XX-DR-C-6500	External Levels	D2/P6								P6				P7
SBX-KSA-Z0-XX-DR-C-6270	PROPOSED HEADWALL DETAILS SHEET 1									P1	P1			P1
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SBX-KSA-Z0-XX-DR-C-6271	PROPOSED HEADWALL DETAILS SHEET 2									P1				
SBX-KSA-Z0-XX-DR-C-6260	Flood Exceedance plan for 1 in 100+40% Clomate change													P1
SBX-KSA-Z0-XX-DR-C-6551	EXTERNAL WORKS DETALS SHEET 1 OF 2	D2/P2								P2				
SBX-KSA-Z0-XX-DR-C-6552	EXTERNAL WORKS DETALS SHEET 2 OF 2	D2/P2								P3				P4
SBX-KSA-Z0-XX-DR-C-6264	Drainage Details Sheet 4													P1
SBX-KSA-Z0-XX-DR-C-6266	Full Retention Separator Details Sheet 1													P1
SBX-KSA-Z0-XX-DR-C-6267	Full Retention Separator Details Sheet 2													P1

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SBX-KSA-Z0-XX-DR-C-6600	PROPOSED CUT AND FILL					P1	P2		P3					D2/ P4
SBX-KSA-Z0-XX-DR-C-6601	PROPOSED ZONES CUT AND FILL					P1								D2/ P2
SBX-KSA-Z0-XX-DR-C-6602	PROPOSED CUT AND FILL PHASE 1 AND PONDS													
SBX-KSA-Z0-XX-DR-C-6800	PROPOSED DEVELOPMENT DRAINAGE STRATEGY													
SBX-KSA-Z0-XX-DR-C-6900	flood zone areas													
SBX-KSA-Z0-XX-DR-C-6750	Phase 1 Foul Network													
SBX-KSA-Z0-XX-DR-C-6751	Access Road Storm Network													
SBX-KSA-Z0-XX-DR-C-6752	Unit 2 Storm Network													
SBX-KSA-Z0-ZZ-CA-C-0002	Access Road Concrete Tank 1 in 30 years + 30% Climate Change													
SBX-KSA-Z0-ZZ-CA-C-0003	Access Road Concrete Tank 1 in 100 years + 40% Climate Change													
SBX-KSA-Z0-ZZ-CA-C-0004	Access Road Storm Network 1 in 1, 1 in 2, 1 in 30 years													
SBX-KSA-Z0-ZZ-CA-C-0005	Access Road Storm Network 1 in 100+ 40% Climate Change													
SBX-KSA-Z0-ZZ-CA-C-0006	Unit 2 Tank 1 in 30 years + 30% Climate Change													
SBX-KSA-Z0-ZZ-CA-C-0007	Unit 2 Tank 1 in 100 years + 40% Climate Change													
SBX-KSA-Z0-ZZ-CA-C-0008	Unit 2 Storm Network 1 in 1, 1 in 2, 1 in 30 years													
SBX-KSA-Z0-ZZ-CA-C-0009	Unit 2 Storm Network 1 in 100 years + 40% Climate Change													
SBX-KSA-Z0-ZZ-CA-C-0010	Phase 1 Foul Network													
SBX-KSA-Z0-ZZ-CA-C-0011	Foul rate Calculation													
SBX-KSA-Z0-ZZ-CA-C-0012	Unit 2 Permeable paving 10 years + 40% Climate Change													
SBX-KSA-Z0-ZZ-CA-C-0013	Unit 2 Permeable paving 100 years + 40% Climate Change													

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SBX-KSA-Z0-XX-DR-C-6900	flood zone areas												P1		
SBX-KSA-Z0-XX-DR-C-6750	Phase 1 Foul Network													P1	
SBX-KSA-Z0-XX-DR-C-6751	Access Road Storm Network													P1	
SBX-KSA-Z0-XX-DR-C-6752	Unit 2 Storm Network													P1	
SBX-KSA-Z0-ZZ-CA-C-0002	Access Road Concrete Tank 1 in 30 years + 30% Climate Change													P1	
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