STANDARD NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND THE SPECIFICATIONS.
2. THIS DRAWING SHOULD NOT BE SCALED.
3. ALL DIMENSIONS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE.
4. ALL DISCREPANCIES SHOULD BE REPORTED TO C.A.J.E.A. PRIOR TO THE COMMENCEMENT OF WORKS.

© CIVIC ENGINEERS LIMITED

NOTES

1. OS BASE PROVIDED BY FCB, RECEIVED 12.02.25.
2. PROPOSED LAYOUT PROVIDED BY PLANIT, RECEIVED 16.03.26.
3. RWP, SVP & SS POSITIONS BASED ON PDF MARK-UPS PROVIDED BY TACE, RECEIVED ON 15.05.26. REFER TO DRAWINGS 18704-TAC-AB-GF-D-P-5201, 18704-TAC-EC-GF-D-P-5201, 18704-TAC-EC-GF-D-P-5201 FOR INFORMATION.
4. TOPOGRAPHICAL SURVEY IS TAKEN FROM N D OLIVER & CO DRAWING NUMBER 1316Z/001/C/1 REV C DATED 09.06.25

KEY

- SITE BOUNDARY
- PROPOSED SW / FW / CW MANHOLE
- PROPOSED SW / FW INSPECTION CHAMBER
- PROPOSED SW RODDING EYE
- PROPOSED SW FLOW CONTROL MANHOLE
- PROPOSED SW SOLID WALL DRAIN
- PROPOSED FW DRAIN
- EXISTING SW SEWER
- EXISTING FW SEWER
- PROPOSED CHANNEL DRAIN
- PROPOSED SW PERFORATED PIPE
- PROPOSED PERMEABLE PAVING 300mm SUB-BASE
- PROPOSED ATTENUATION TANK
- PROPOSED CONCRETE BOX CULVERT
- 2.5m UU EASEMENT
- BACKDROP CONNECTION

RIBCHESTER DRIVE

CORNFIELD DRIVE

POUNDSWICK LANE

Tenterden Walk

Frank Price Court

El Sub Sta

SW85 CL: 58.478m IL: 57.878m Dp: 0.600m ∅: 600mm

SW43 CL: 58.436m IL: 57.733m Dp: 0.702m ∅: 1200mm

FW20 CL: 58.463m IL: 57.336m Dp: 1.127m ∅: 600mm

SW2 CL: 58.440m IL: 56.818m Dp: 1.622m ∅: 3000mm

FW4 CL: 58.374m IL: 56.458m Dp: 1.916m ∅: 1200mm

SW91 CL: 58.582m IL: 57.850m Dp: 0.732m ∅: 450mm

FW3 CL: 58.586m IL: 56.508m Dp: 2.078m ∅: 600mm

PIPE TO BE CAST THROUGH FOUNDATION

SW1 CL: 58.502m IL: 56.860m Dp: 1.642m ∅: 3000mm

SW92 CL: 58.573m IL: 57.706m Dp: 0.867m ∅: 600mm

SW95 CL: 58.544m IL: 57.404m Dp: 1.140m ∅: 1200mm

NOT-RETURN VALVE ON OUTLET

SW82 CL: 58.367m IL: 57.742m Dp: 0.625m ∅: 100mm

SW15 CL: 58.407m IL: 57.532m Dp: 0.875m ∅: 1200mm

SW93 CL: 58.364m IL: 57.635m Dp: 0.729m ∅: 600mm

SW81 CL: 58.681m IL: 57.728m Dp: 0.953m ∅: 100mm

SW80 CL: 58.562m IL: 57.777m Dp: 0.785m ∅: 100mm

FW24 CL: 58.732m IL: 57.364m Dp: 1.368m ∅: 600mm

FW140 CL: 58.774m IL: 57.423m Dp: 1.351m ∅: 450mm

SW21 CL: 58.782m IL: 57.941m Dp: 0.841m ∅: 600mm

FW45 CL: 58.790m IL: 57.479m Dp: 1.311m ∅: 450mm

SW20 CL: 58.824m IL: 57.524m Dp: 1.300m ∅: 600mm

PROPOSED GEO-CELLULAR ATTENUATION TANK
PLAN AREA (m²): 290
STORAGE VOLUME (m³): 220
DEPTH (m): 0.8
IL (m): 57.550

WAVIN CORE-R OR SIMILAR APPROVED

TANK INLET TO ONE ROW OF AQUACELL CORE PLUS CRATES TO ALLOW FOR MAINTENANCE

SW96 CL: 59.700m IL: 57.550m Dp: 2.150m ∅: 1200mm

FW64 CL: 59.832m IL: 57.934m Dp: 1.899m ∅: 450mm

SW25 CL: 59.995m IL: 57.782m Dp: 2.213m ∅: 600mm

SW27 CL: 59.990m IL: 57.872m Dp: 2.118m ∅: 600mm

FW108 CL: 59.967m IL: 58.640m Dp: 1.327m ∅: 600mm

SW40 CL: 59.983m IL: 57.988m Dp: 1.994m ∅: 600mm

SW28 FW84 CL: 59.980m IL: 58.454m Dp: 1.526m ∅: 600mm

SW41 CL: 59.905m IL: 58.098m Dp: 1.807m ∅: 600mm

SW42 CL: 59.907m IL: 58.159m Dp: 1.748m ∅: 600mm

SW32 CL: 59.929m IL: 58.269m Dp: 1.660m ∅: 600mm

SW84 CL: 59.720m IL: 58.650m Dp: 1.070m ∅: 150mm

SW10 CL: 60.063m IL: 56.600m Dp: 3.463m ∅: 3000mm

FW18 CL: 59.895m IL: 57.585m Dp: 2.310m ∅: 600mm

FW7 CL: 59.869m IL: 55.911m Dp: 3.958m ∅: 1200mm

SW46 CL: 59.220m IL: 57.263m Dp: 1.957m ∅: 1200mm

SW8 CL: 59.310m IL: 56.691m Dp: 2.619m ∅: 3000mm

SW48 CL: 59.404m IL: 56.150m Dp: 1.254m ∅: 1200mm

SW4 CL: 59.845m IL: 56.556m Dp: 3.289m ∅: 3000mm

SW6 CL: 58.812m IL: 56.728m Dp: 2.084m ∅: 3000mm

FW5 CL: 58.747m IL: 56.331m Dp: 2.416m ∅: 1200mm

NOT-RETURN VALVE ON OUTLET

MIN 2.5 m UU EASEMENT REQUIREMENT FOR BOX CULVERTS OF DEPTHS GREATER THEN 3.0 m

PROPOSED CONCRETE BOX CULVERT
PLAN AREA (m²): 180
DEPTH (m): 1.4
STORAGE VOLUME (m³): 253.1
IL: 56.579

NOT-RETURN VALVE ON OUTLET

SW11 CL: 59.562m IL: 57.744m Dp: 1.818m ∅: 1200mm

SW9 CL: 59.977m IL: 56.582m Dp: 3.395m ∅: 3000mm

SW88 CL: 59.767m IL: 58.450m Dp: 1.317m ∅: 450mm

FW22 CL: 59.882m IL: 58.661m Dp: 1.221m ∅: 600mm

SW12 CL: 59.785m IL: 56.570m Dp: 3.215m ∅: 2100mm

CL: 59.67
IL: 55.97

CL: 59.68
IL: 56.55

PROPOSED CONNECTION TO EXISTING SW SEWER SUBJECT TO S106 APPROVAL FROM UU
APPROX. CONNECTION IL: 56.540m
BASED ON UPSTREAM SEWER LEVEL PROVIDED BY SEP AND DOWNSTREAM SEWER LEVEL PROVIDED BY CADDICK. CONTRACTOR TO CONFIRM THE EXISTING SEWER INVERT LEVEL ON SITE.

PROPOSED CONNECTION TO EXISTING FW SEWER SUBJECT TO S106 APPROVAL FROM UU
APPROX. CONNECTION IL: 55.850m
BASED ON UPSTREAM SEWER LEVEL PROVIDED BY SEP AND DOWNSTREAM SEWER LEVEL PROVIDED BY CADDICK. CONTRACTOR TO CONFIRM THE EXISTING SEWER INVERT LEVEL ON SITE.

CL: 58.38
IL: 56.53

CL: 58.42
IL: 55.76

DRAWING NOTES

1. THE FOLLOWING ASSUMPTIONS HAVE BEEN MADE TO SET THE DEPTH OF FOUL WATER DRAINS AND RWPS AT THIS STAGE. DEPTH OF ALL RUNS AND NUMBER OF ICs SUBJECT TO FURTHER DESIGN DEVELOPMENT ONCE SUBSTRUCTURE STRATEGY IS CONFIRMED AND POSITION AND NUMBER OF POP UPS IS CONFIRMED.
   - 1.1. TOWNHOUSES - FOUL WATER DRAINAGE SET AT 550MM BELLOW FFL @ 1:40 GRADIENT. RWPs ARE EXTERNAL.
   - 1.2. EXTRA CARE - INTER DRAINAGE INVERT LEVEL SET AT 58.910M AOD @ MINIMUM 1:40 GRADIENT TO PASS BENEATH GROUND BEAMS.
   - 1.3. APARTMENTS - INTER DRAINAGE INVERT LEVEL SET AT 57.710M AOD @ MINIMUM 1:30 GRADIENT TO PASS BENEATH GROUND BEAMS.
   - 1.4. DRAINAGE RUNS MAY BE DEEPER THAN THE ABOVE PARAMETERS IN SOME AREAS TO RESOLVE CLASHES BETWEEN FOUL WATER AND SURFACE WATER.
2. LEVELS SHOWN FOR HEADS OF DRAINS FROM SVPS/SS ARE SUBJECT TO COORDINATION WITH M&E AND STRUCTURAL ENGINEERS.
3. SURFACE WATER DRAINAGE DISCHARGE RATE AND METHOD OF DISCHARGE TO BE AGREED WITH UNITED UTILITIES AND LLFA.
4. RAINWATER DOWNPIPE POSITIONS TO BE CONFIRMED BY ARCHITECT & MEP ENGINEER. ALL RWPs TO BE ROODABLE
5. PROPOSED SURFACE WATER NETWORK SIZED BASED ON THE 1 IN 100 YEAR EVENT + 45% CLIMATE CHANGE ALLOWANCE
6. SW1 - SW10 AND FW3-FW8 AND FW21 TO ADOPTED SEPARATE S104 AND S106 AGREEMENTS
7. THE INDICATED LEVEL INFORMATION OF EXISTING SEWERS ASSETS IS BASED ON CURRENT AVAILABLE INFORMATION AND SHOULD BE CONFIRMED ON SITE BY CONTRACTOR AND REPORTED TO ENGINEER.

FLOW CONTROL SUMMARY

MH NUMBER	FLOW CONTROL	DESIGN FLOW (l/s)	PRODUCT REFERENCE
SW4	HYDROBRAKE (OR SIMILAR APPROVED)	10.2	CHE-0131-1020-1550-1020

31.07.26	P05	ISSUED FOR INFORMATION	ZA JDL
19.04.26	P05	DRAFT STAGE 4A ISSUE	ZA JLD
24.04.26	P04	UPDATED BASED ON COMMENTS	TPR JDL
24.03.26	P03	STAGE 3 ISSUE	ZA JDL
24.11.25	P02	PROJECT TITLE UPDATED	TPR JDL
14.11.25	P01	DRAFT ISSUE	TPR JDL
DATE	REV	DESCRIPTION	DRAWN CHKD

CIVIC ENGINEERS
civicengineers.com

PROJECT
BROTHERTON HOUSE

TITLE
PROPOSED DRAINAGE STRATEGY
GENERAL ARRANGEMENT

DRAWING STATUS: STAGE 4A
STATUS CODE: -

CE PROJECT No.	SCALE @ A0	DATE CREATED	DRAWN	CHECKED
3323-02	1:250	NOV 25	TPR	JDL

DRAWING No.: 18704-CIV-XX-XX-D-C-30001
REV: P06

0 2.5 5 7.5 10 12.5 15 20 m
SCALE 1:250 @ A0

FILE LOCATION PATH: P:\PROJECTS\HOT\3323-02 IMUSE - HYTHE\INSHARE - PLOTS C2 AND 3.3\004 BIM\CIVIL\SD\DRAWINGS\BROTHERTON\18704-CIV-XX-XX-D-C-30001_PROPOSED DRAINAGE.DWG