A1 DO NOT SCALE THIS DRAWING. CHECK ALL DIMENSIONS ON SITE. IF IN DOUBT ASK.

PRIVATE DRAINAGE NOTES

ALL PRIVATE DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H

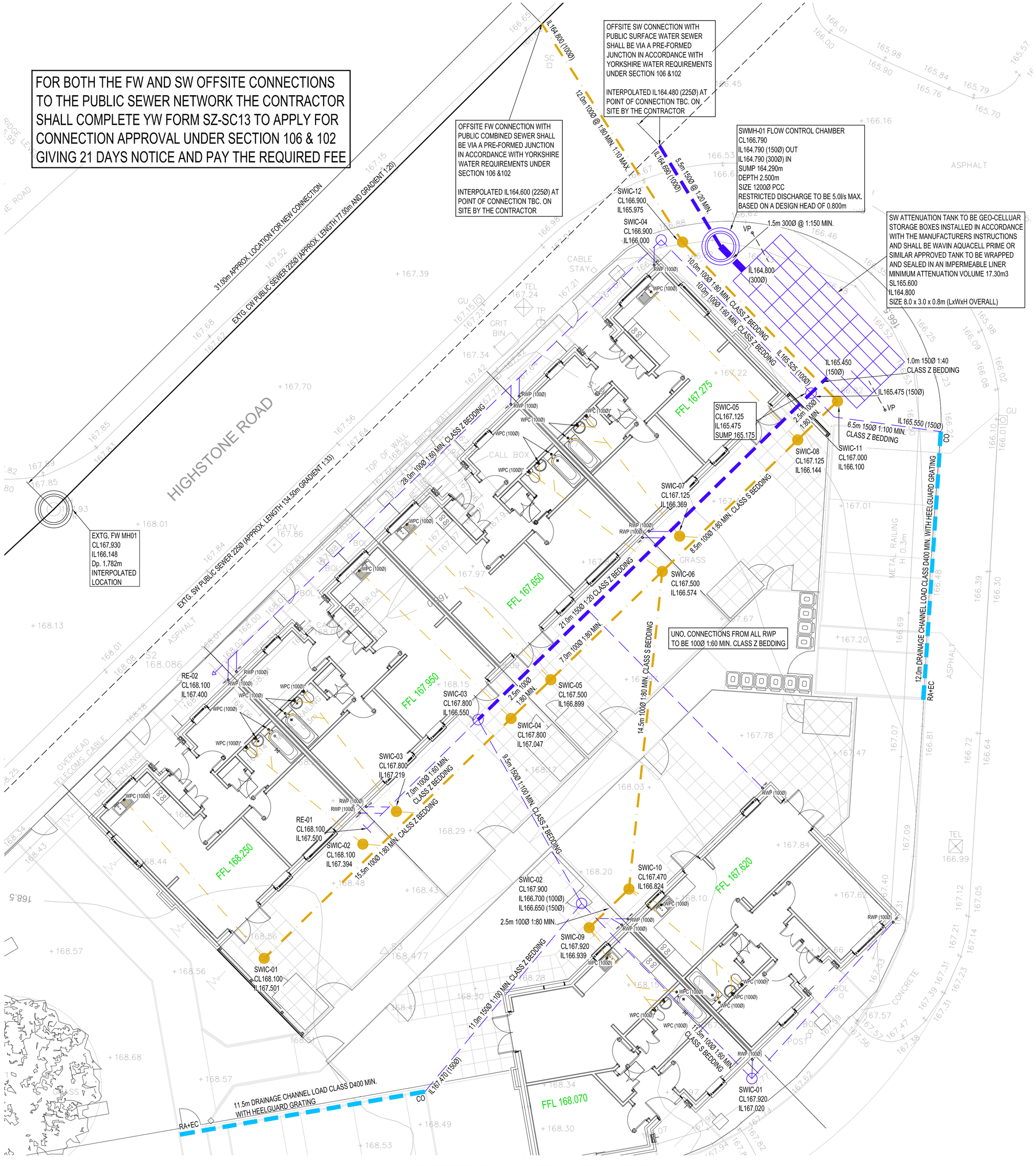
MATERIALS
ALL PIPE WORK FOR PRIVATE DRAINAGE TO BE 100mm RIGID PIPE OR 110mm FLEXIBLE PIPE UNLESS NOTED OTHERWISE ON THE DRAWING

PIPE SIZES AND GRADIENTS SW
MINIMUM PIPE SIZE 100Ø/110Ø
MIN. GRADIENT FOR A 100Ø PIPE 1:60
MIN. GRADIENT FOR A 150Ø PIPE 1:100
PIPE SIZE AND GRADIENT SUBJECT TO THE DRAINAGE DESIGN CALCULATION CARRIED OUT BY THE ENGINEER

PIPE SIZES AND GRADIENTS FW
MINIMUM PIPE SIZE 100Ø/110Ø
WHERE 10 OR MORE PROPERTIES CONNECT TO THE SAME PRIVATE FOUL DRAIN RUN THE PIPE(S) SHOULD BE UPSIZED TO 150Ø AFTER THE 10th PROPERTY
MIN. GRADIENT FOR A 100Ø PIPE 1:80 (MIN. 1 WC CONNECTED)
MIN. GRADIENT FOR A 150Ø PIPE 1:150 (MIN. 5 WC'S CONNECTED)

PIPE BEDDING
GENERALLY PIPE BEDDING SHALL BE CLASS S FULL GRANULAR BED AND SURROUND WHERE COVER TO SOFFIT IS 0.90m OR GREATER UNDER LANDSCAPING AND PRIVATE DRIVES.
WHERE COVER IS LESS THAN STATED ABOVE A FULL CONCRETE SURROUND SHALL BE USED (CLASS Z BEDDING)
A FULL CONCRETE SURROUND SHALL BE USE ON ALL PIPES THAT RUN IN CLOSE PROXIMITY TO FOUNDATION IRRESPECTIVE OF DEPTH OF COVER AS DETAILED IN BUILDING REGULATIONS DOCUMENT H PART H1
FOR STANDARD PRIVATE DRAINAGE CONSTRUCTION DETAILS AND SPECIFICATION REFER TO CCE DRAWING D2001

FOR BOTH THE FW AND SW OFFSITE CONNECTIONS TO THE PUBLIC SEWER NETWORK THE CONTRACTOR SHALL COMPLETE YW FORM SZ-SC13 TO APPLY FOR CONNECTION APPROVAL UNDER SECTION 106 & 102 GIVING 21 DAYS NOTICE AND PAY THE REQUIRED FEE



PROPOSED FW & SW DRAINAGE LAYOUT
(SCALE 1:100)

12. UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL CLEAN ALL DRAINAGE BY JETTING, REMOVING ALL DEBRIS FROM SITE. NO DEBRIS SHALL BE PREMITTED TO ENTER THE PUBLIC SEWER OR WATERCOURSE SYSTEM.
UPON COMPLETION OF THE WORK AND DRAIN CLEANING A CCTV CAMERA SURVEY SHALL BE UNDERTAKEN TO ALL CONSTRUCTED DRAINAGE AND SEWER PIPES WITH THE FOOTAGE ISSUED TO THE ENGINEER FOR REVIEW.
THE AS BUILT INVERT AND COVER LEVELS SHALL BE RECORDED BY THE CONTRACTOR AND PASSED ON TO THE ENGINEER FOR

KEY

- EXISTING FW SEWERS
- EXISTING SW SEWERS
- PROPOSED FW PRIVATE INSPECTION CHAMBER 475Ø (WHERE DEPTH TO INVERT IS GREATER THAN 1200mm REDUCED ACCESS COVER IS REQUIRED)
- PROPOSED FW PRIVATE INSPECTION CHAMBER 475Ø (WHERE DEPTH TO INVERT IS GREATER THAN 1200mm REDUCED ACCESS COVER IS REQUIRED)
- PROPOSED 1200Ø SW PCC MANHOLE
- PROPOSED SW RODDING EYE
- PROPOSED SW CHANNEL DRAIN
- RWP (***Ø) — PROPOSED RAINWATER PIPE LOCATION TBC. BY ARCHITECT
- WPC — PROPOSED WASTE PIPE CONNECTION LOCATION TBC. BY ARCHITECT (* WC CONNECTED)

A. EXISTING DRAINAGE LEVELS ARE TO BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER NOTIFIED BEFORE ANY DRAIN RUNS ARE CONSTRUCTED

B. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD ANY EXISTING LIVE DRAINAGE BE FOUND WITHIN THE SITE BOUNDARY SERVING ADJACENT PROPERTIES

C. LOCATION SIZE AND SETTING OUT OF ALL RAINWATER AND WASTE PIPE CONNECTIONS REFER TO THE RELEVANT ARCHITECT'S DRAWING FOR DESIGN PURPOSES THESE HAVE BEEN ASSUMED

D. ALL EXISTING DRAINAGE WITHIN THE SITE NOT REQUIRED FOR THE NEW DEVELOPMENT IS TO BE ABANDONED DRAINS AND SEWER LESS THAN 1.500m DEEP WHICH ARE IN OPEN GROUND SHOULD AS FAR AS IS PRACTICABLE BE REMOVED ALL OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND BE GROUT FILLED TO ENSURE THAT RATS CANNOT GAIN ACCESS LARGER PIPES 225Ø OR ABOVE SHOULD BE GROUT FILLED TO PREVENT SUBSIDENCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE

E. CONNECTIONS FROM WPC TO BE LAID AT 1/40 MINIMUM AND 1/10 MAXIMUM GRADIENTS WHERE CONSTRUCTED UNDER THE BUILDING

F. ALL MANHOLE COVER LEVELS ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE TO SUIT THE PROPOSED FINISHED LEVELS

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP IS TO COMPLY WITH CCE's STANDARD SPECIFICATION AND ALL RELEVANT BRITISH AND EUROPEAN STANDARDS.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, M & E CONSULTANTS AND CCE's DRAWINGS.
3. ANY DISCREPENCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO COMMENCEMENT OF WORKS.

DRAINAGE NOTES

1. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752:2008 DRAINAGE AND SEWER SYSTEMS OUTSIDE BUILDING, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
2. ANY DRAINAGE TO BE PUT FORWARD FOR ADOPTION EITHER WITHIN THE SITE OR OUTSIDE SHALL BE CONSTRUCTED TO SEWERS FOR ADOPTION LATEST EDITION AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING AUTHORITY.
3. THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINS/SEWERS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPENCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND DIVERSION WORKS AS NECESSARY, TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE UTILITY COMPANIES.
5. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN OFF INTO EXCAVATIONS AND FROM GROUNDWATER BY MEANS OF SUMPS, PUMPING AND DE WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.
6. ALL LEVELS AND DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPENCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT LEGISLATION WHEN WORKING IN/NEAR CONFINED SPACES, DEEP EXCAVATIONS AND MACHINERY.
8. THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON THE SEWERAGE SYSTEM.
9. THE CONTRACTOR SHALL SUITABLY PROTECT PEDESTRIANS AND VEHICLES FROM WORKING AREAS.
10. ALL PIPES SHALL BE LAID WITH SOFFIT LEVELS AND ALL MANHOLE/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUTLET PIPE (UNLESS OTHERWISE SHOWN). PIPE RUNS SHALL BE LAID TO THE LEVELS INDICATED, AND ALL PIPE GRADIENTS INDICATED ARE APPROXIMATE.
11. ALL RAINWATER PIPES/INTERNAL FOUL DRAIN CONNECTIONS ARE TO BE AS SHOWN ON THE ARCHITECTS LAYOUT DRAWING. SUITABLE ADAPTORS SHALL BE PROVIDED AT FINISHED FLOOR LEVEL ALL DETAILS BY OTHERS.

Rev	Date	By	Description	Chk	App
A	28.07.2016	JDM	DWG. TITLE REVISED, AS BUILT FW DRAINAGE INFORMATION ADDED, LOCATION OF OFF SITE CONNECTIONS CONFIRMED, DRAWING GENRERLLY UP DATED, CONSTRUCTION ISSUE	JDM	PC
P2	23.06.2016	SK	UPDATED IN LINE WITH TORPOINT COMMENTS	JDM	PC
P1	13.06.2016	SK	INITIAL ISSUE	JDM	PC

Drawing Status: CONSTRUCTION

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Project: HIGHSTONE ROAD BARNSLEY

Client: SOUTH YORKSHIRE HOUSING ASSOCIATION

Dwg Title: PROPOSED FW AND SW DRAINAGE LAYOUT

Scale	AS SHOWN	Drawn	Checked	Approved
Date	June-16	SK	JDM	PC

Path: Z:\Projects\16006 - Highstone Road, Barnsley\4.0 Drawings\4.2 CAD\04.2_1 - CAD

Project No	Dwg No	Rev
16006	D0001	A

TORPOINT LTD
BUILDERS AND CONTRACTORS

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