

Drainage & Pipe Laying Notes

- All work is to be undertaken in accordance with the specification.
- All pipe laying works are to proceed upstream unless noted otherwise.
- All drainage runs shall be completed in advance of the external works.
- Manhole locations where full setting out is not provided shall be fixed at the best location that suits the criteria indicated on the drawings (i.e. pipe gradients, lengths, incoming connections). Such manholes shall have their placement confirmed to the contract administrator.
- Flows into the network should be avoided until the outfalls are established. If water entry is unavoidable prior to this, a sump should be constructed to be pumped out as required.
- Existing invert levels at final discharge points to be checked prior to construction.
- Where additional connections to the network are instructed by others (or shown on their drawings) such connections shall not be made without confirmation from the contract administrator.
- Any existing pipes, french drains, streams or water entries encountered during pipe laying or elsewhere within the contract boundary should be reported to the contract administrator immediately.
- Manhole cover and frame to suit manhole/inspection chamber Ø, in accordance with EN 124.
- Concrete pipes to comply with the requirements of BS 5911 and to be flexibly jointed.
- Plastic pipes and fittings to the following:
UPVC - to BS EN 1401
Polypropylene - to BS EN 1852
- Clay pipes to be vitrified clay extra strength, plain end pipes and fittings with plastic sleeve joints to BS 65:1981.
- Pipes and fittings are to be laid in accordance with manufacturers recommendations.
- Pipe work beneath buildings to have concrete bed and surround.
- Where cover to adopted pipes is less than 1200mm and 900mm to private pipes in roads and hard standings concrete protection is to be provided. All drain runs near buildings shall also receive concrete protection - refer to details.
- Where surface water pipes cross foul water pipes both pipes to have concrete bed, surround and infill between.
- All pipe trenches shall have selected excavated material for backfill, except for those which pass beneath any buildings or external pavements which shall have type 2 material for backfill.
- Until final surface is placed, heavy traffic is not to be allowed over pipe trenches without special provisions
- All landscaping, footpaths and street furniture to architects specification and details.

Pipe Material Table		
Dia. of Drain (mm)	Material	Manufacturer
100-225	uPVC	Polypipe

All RWP's and RE's connecting into MH system to be 100Ø in minimum 1:100 gradient

All pipes to be 100Ø UNO

All internal drainage connecting into MH system to be 100Ø

Amended Layout	A	08/12/2016	KA	KGP
DESCRIPTION	REV	DATE	CHK	APR



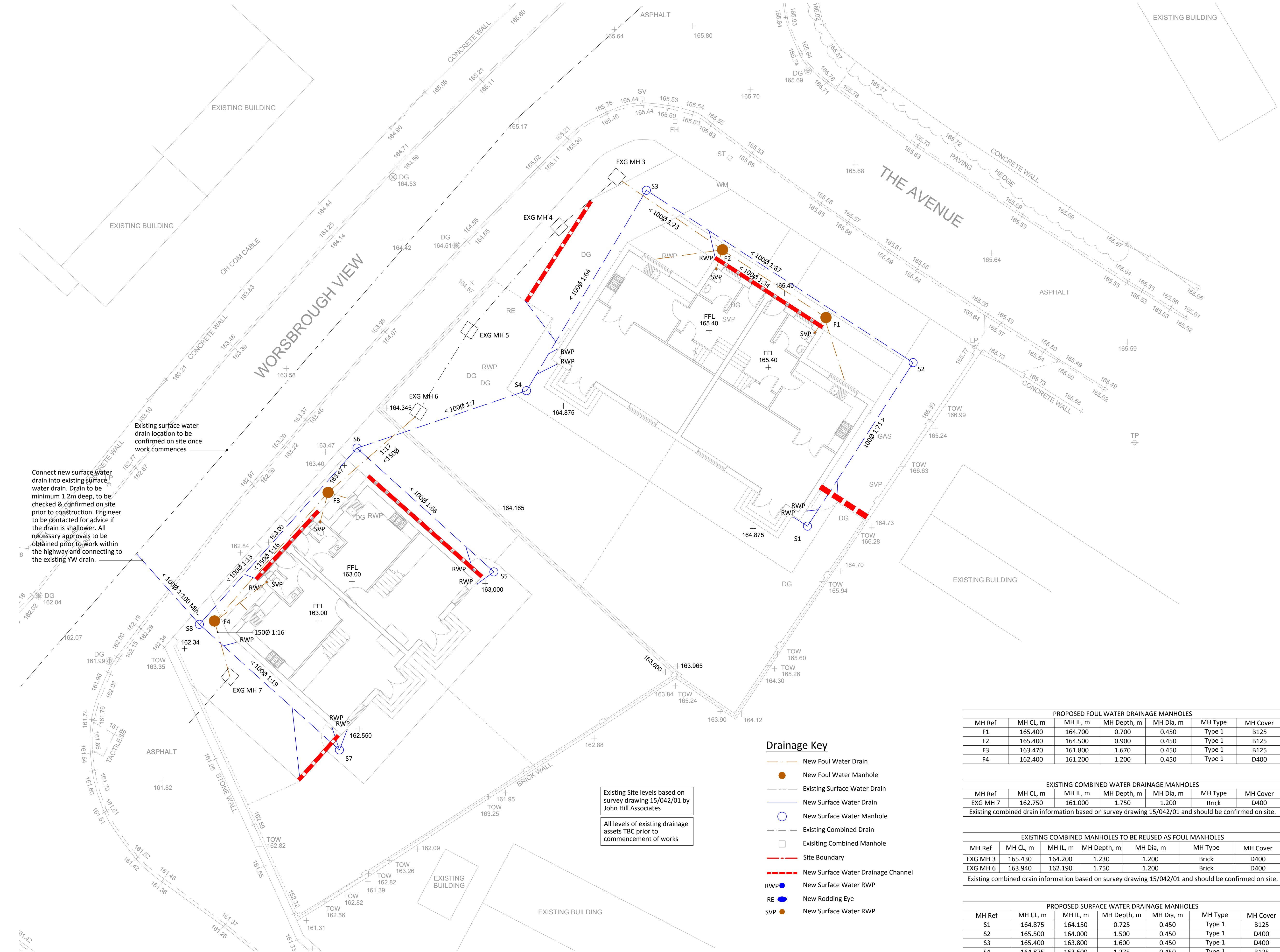
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PROJECT
**Residential Development
Tankersley, Barnsley**

DRAWING TITLE
Drainage General Arrangement

CLIENT
Benell Investments

Information			
DRAWN	JD	DATE	21.10.2016
CHECKED	KAN	SCALE	AS SHOWN @ A1
APPROVED	KGP		
DRAWING NUMBER	86-05-500		REVISION A



Drainage Key

- New Foul Water Drain
- New Foul Water Manhole
- Existing Surface Water Drain
- New Surface Water Drain
- New Surface Water Manhole
- Existing Combined Drain
- Existing Combined Manhole
- Site Boundary
- New Surface Water Drainage Channel
- New Surface Water RWP
- New Rodding Eye
- New Surface Water RWP

Existing Site levels based on survey drawing 15/042/01 by John Hill Associates

All levels of existing drainage assets TBC prior to commencement of works

Plan
Scale 1:100

PROPOSED FOUL WATER DRAINAGE MANHOLES						
MH Ref	MH CL, m	MH IL, m	MH Depth, m	MH Dia, m	MH Type	MH Cover
F1	165.400	164.700	0.700	0.450	Type 1	B125
F2	165.400	164.500	0.900	0.450	Type 1	B125
F3	163.470	161.800	1.670	0.450	Type 1	B125
F4	162.400	161.200	1.200	0.450	Type 1	D400

EXISTING COMBINED WATER DRAINAGE MANHOLES						
MH Ref	MH CL, m	MH IL, m	MH Depth, m	MH Dia, m	MH Type	MH Cover
EXG MH 7	162.750	161.000	1.750	1.200	Brick	D400

Existing combined drain information based on survey drawing 15/042/01 and should be confirmed on site.

EXISTING COMBINED MANHOLES TO BE REUSED AS FOUL MANHOLES						
MH Ref	MH CL, m	MH IL, m	MH Depth, m	MH Dia, m	MH Type	MH Cover
EXG MH 3	165.430	164.200	1.230	1.200	Brick	D400
EXG MH 6	163.940	162.190	1.750	1.200	Brick	D400

Existing combined drain information based on survey drawing 15/042/01 and should be confirmed on site.

PROPOSED SURFACE WATER DRAINAGE MANHOLES						
MH Ref	MH CL, m	MH IL, m	MH Depth, m	MH Dia, m	MH Type	MH Cover
S1	164.875	164.150	0.725	0.450	Type 1	B125
S2	165.500	164.000	1.500	0.450	Type 1	D400
S3	165.400	163.800	1.600	0.450	Type 1	D400
S4	164.875	163.600	1.275	0.450	Type 1	B125
S5	163.000	162.450	0.550	0.450	Type 1	B125
S6	163.400	162.300	1.100	0.450	Type 1	D400
S7	162.550	161.850	0.700	0.450	Type 1	B125
S8	162.340	161.300	1.040	0.450	Type 1	D400