SB Homes Ltd

Gillroyd lane development

ERECTION OF 18 DWELLINGS

AT – LAND AT 172 GILLROYD LANE ,LINTHWAITE,HUDDERSFIELD,HD7 5SR

CONSTRUCTION MANAGEMENT PLAN

Planning Application Number _- 2018/62/90208/W

Date Planning Permit Issued – 26/1/22

BOROONDARA
City of Harmony

Project details

Company Operational Details .....
Directors Name STEVEN BYRAM
Company Name SB HOMES LTD
Company Business Address EMPIRE HOUSE, LEWISHAM RDS, SLAITHWAITE, HD7 5AL
Company Contact Number .....

Contact details of person responsible for compliance with CMP

Name .....
Contact Number .....
After Hours Contact Number .....

Contact person in control of site

Name RYAN CLIFFORD
Contact Number 07746964693
After Hours Contact Number .....

Construction works

Is construction in stages? ☑ Yes ☐ No
If Yes, give detail PLOTS 1-6 PHASE 1
7-12 AND 18 PHASE 2
Demolition 13-17 PHASE 3
Excavations .....
Construction .....

The above details are required to be erected on the front of the site in a publically visible location.

Is your Company in control of the site during this stage of work? ☑ Yes ☐ No

If you answered **NO** only the Company in control of the site may complete and sign for responsibility of the CMP.

I RYAN CLIFFORD have due authorisation and delegation to sign this CMP on behalf of the Company listed above and take responsibility for ensuring compliance with our commitment specified herein, the Local Government Act 1989, Asset Protection Local Law and any other relevant legislation.

Signed Redacted Dated 10/2/22

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Noise

General Matters	Measures to be Implemented	Further Information
Noise associated with machinery	MACHINES NOT TO OPERATE BEFORE 7.30AM OR AFTER 5.30PM. NO KEEPING OF HORNS UNLESS ABSOLUTELY REQUIRED.	*Refer to page 8 of Council's Construction Management Plan Guidelines.*
Noise associated with voices, workers and radios etc	CABINS TO BE SITUATED AWAY FROM GARAGES. RADIO'S TO BE KEPT AT CORRECT DECIBEL LEVEL.	**Refer to page 8 of Council's Construction Management Plan Guidelines.**

Attach any additional documents as Appendix A

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Construction Times

(acknowledge as relevant to the development context listed below)

Development Type	Details	Acknowledgement	Details
Residential	The Residential Noise Regulations prohibits the use the of tools during the following times: • Monday to Friday before 7.00am and after 8.00pm; and • Weekends and public holidays before 9.00am and after 8.00pm. A Planning Permit for a residential construction site may also include conditions controlling construction hours. A request to vary these hours must be made to Council's Statutory Planning Department at least 10 days prior to carrying out the relevant activity.	I acknowledge that a request to vary the construction hours specified within the conditions of a Planning Permit on a residential construction site must be made to Council's Statutory Planning Department at least 10 days prior to carrying out the releva Redacted **Signe** **Dated**: 10/2/22	*Refer to pages 8-9 of Council's Construction Management Plan Guidelines to determine whether yours is a 'residential development site'.*
Large Scale Residential	The EPA regulations can exempt some types of large scale residential premises under construction from application of the items and times under the Residential Noise Regulations.	I acknowledge that Council's Statutory Planning must be notified if an exemption has been obtained from the EPA: **Signed**: Redacted **Dated**: 10/2/22	*Refer to pages 8-9 of Council's Construction Management Plan Guidelines.*

Development Type	Details	Acknowledgement	How to Seek Variation
Commercial	Commercial construction sites are controlled through Council's Amenity Local Law. Unless with a Local Law Permit, a person must not carry out non-residential building work on: • A public holiday; • Between 5.00pm on Friday and 8.00am the next day; • Between 5.00pm on Saturday and 7.00am the following Monday; and • Between 6.30pm on any Monday, Tuesday, Wednesday or Thursday and 7am the next day.	I acknowledge that consent is required from Council's Local Laws Department to undertake construction and/or deliveries outside of those times stated: **Signed**: Redacted **Dated**: 10/2/22	*Refer to page 9 of Council's Construction Management Plan Guidelines to determine whether yours is a 'commercial development site'.*

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Airborne Dust

General Matters	Measures to be Implemented	Further Information
Airborne dust	• PLAN OUT THE EXPOSURE BY NOT USING HAZARDOUS SUBSTANCES OR USE THEM IN A WAY THAT NO ONE IS EXPOSED. • PREVENT OR MINIMISE EMISSION OF THE SUBSTANCE IN THE AIR. • IF NOT POSSIBLE TO PREVENT THEN USE PPE AND RESPIRATORY EQUIPMENT AT ALL TIMES.	*Refer to pages 9-10 of Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix B

Stormwater and Sediment Control

General Matters	Measures to be Implemented	Further Information
Stormwater and sediment laden runoff along roads, drains and footpaths etc	ROAD WASH AND WHEEL WASH DONE TO PREVENT SEDIMENT CARRIED OUT FROM SITE TO ROAD AND FOOTPATH	*Refer to pages 10-11 Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix C

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Removal of Hazardous Material

General Matters	Measures to be Implemented	Further Information
Removal of hazardous or dangerous materials from the site (as applicable)	MATERIALS TO BE IDENTIFIED AND CORRECT WASTE MANAGEMENT COMPANY TO BE NOTIFIED TO ISSUE REMOVAL	*Refer to pages 11-12 of Council's Construction Management Plan Guidelines.*
Removal of asbestos from the site (as applicable)	NO ASBESTOS ON SITE.	*Refer to page 12 of Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix D

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Protection of Council Assets (streets, footpaths, laneways and reserves)

Matters for Consideration	Details	Acknowledgement	Further Information
Protection of Council assets (streets, footpaths, laneways and reserves) (as applicable)	- Council's 'Protection of Council Assets and Control of Building Sites Local Law 2011' deals with protection of Council Assets. A builder or developer must not commence or allow or authorise anyone else to commence building work on the subject land unless notice is given to Council in accordance with Part B - Asset Protection. The notice must be given to Council no less than 21 days before building work commences.	I acknowledge that I must not commence or allow or authorise anyone else to commence building work on the subject land unless notice is given to Council within 21 days in accordance with Part B - Asset Protection: Redacted **Signed:** ..... **Dated:** 10/2/22	*Refer to pages 12-13 of Council's Construction Management Plan Guidelines.*
	- Prior to commencement of any works on the site, the builder or developer must submit any application for a new vehicular crossover or modification or alteration to an existing crossover proposal for assessment and approval by Council's Infrastructure and Traffic Department.	I acknowledge that I must obtain the relevant permits from Council's Infrastructure and Traffic Department: Redacted **Signed:** ..... **Dated:** 10/2/22	

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Building Waste on Public Land (streets, footpaths, laneways and reserves)

General Matters	Details	Acknowledgement	Further Information
Building waste on public land (streets, footpaths, laneways and reserves) (as applicable)	- Under Council's Amenity Local Law, a permit must be obtained before a skip or large waste bin is placed on a road or on any land owned or managed by the Council. Placing a skip on Council land, including a road reserve, requires approval from Council's Local Law Department.	I acknowledge that a permit must be obtained from Council's Local Laws Department before a skip or large waste bin is placed on a road or on any land owned or managed by the Council: **Signed:** 10/2/22 **Dated** Redacted	*Refer to pages 13-14 of Council's Construction Management Plan Guidelines.*

Onsite Building Waste (rubbish, debris and unsightly sites)

Matters for Consideration	Details	Further Information
Details to be provided of measures to mitigate the effect of onsite building waste to ensure local amenity is protected	30 YARD SKIP TO BE LOCATED AWAY FROM RESIDENTS AND REGULARLY WEIGHTED DOWN TO REDUCE DEBRIS.	*Refer to page 14 of Council's Construction Management Plan Guidelines.*

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Details to be provided of measures to ensure that materials stored on the site are adequately secured to prevent unnecessary and unsightly dispersal of the materials around the site and public areas (streets, laneways, footpaths and reserves)	DESIGNATED AREAS WILL BE ASSIGNED TO MATERIALS TO REDUCE IMPACT ON RESIDENTS. ANY LOOSE MATERIALS TO BE WRAPPED TO REDUCE THE RISK OF FLYING DEBRIS	*Refer to page 14 of Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix E

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Traffic Management

Matters for Consideration	Details	Further Information
Details to be provided of the extent to which works will potentially affect pedestrian and cycling access around the site, as well as traffic on adjoining roads. This may include the location of cranes, hoardings, perimeter fencing, storage areas, hoisting zones and site sheds	ALL LOADING AND ALLEYS IS AWAY FROM ROAD + FOOTPATH. HOLDING AREA WILL BE IN USE	*Refer to pages 14-16 of Council's Construction Management Plan Guidelines.*
Details to be provided of the management of construction vehicles accessing and leaving the site to prevent queuing on roads and unnecessary disruption to traffic	LOADING AREA AND TURNING CIRCLE DESIGNED INTO PHASE PLAN TO REDUCE THE BACKING OUT OF VEHICLES ONTO ROAD. SEE APPENDIX F *	

Attach any additional documents as Appendix F

A Traffic Management Plan (TMP) may be required where there are specific access issues that need to be addressed. The CMP condition on the Planning Permit will identify any such requirement. The TMP should be attached as an appendix document to the CMP	*Refer to pages 14-16 of Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix G

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Road, Lane Closures and Mobile Cranes on Council Land

General Matters	Details	Acknowledgement	Further Information
Road / lane closures, cranes and gantries located on Council land. (as applicable)	- A Works Zone Permit is required from Council's Traffic and Transport Department to occupy an area of road for loading or delivery of building materials. - An occupancy Permit is required from Council's Traffic and Transport Department to establish a work area for plant and equipment on a road reserve or if any works are to be carried out within a Council controlled road reserve. - A permit is required from Council's Local Laws Department to use mobile cranes or travel towers, locate skip bins, site sheds and building materials or similar on Council controlled land. - A permit may also be required from Council's Building Department to locate a building hoarding, gantry or similar structure on Council controlled land.	I acknowledge that I must obtain the relevant permits from Council's Traffic and Transport, Local Laws and Building Departments. Redacted **Signed:** ..... **Dated:** ...10/2/22.....	*Refer to pages 16-17 of Council's Construction Management Plan Guidelines.*

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Tradesperson Vehicle Parking

General Matters	Details	Further Information
Details (including a map if applicable) are to be provided of where tradespeople will park during the development phase. The first preference is for this to occur within the subject site, including within any basement levels of the development (if applicable)	See MAP ATTACHED	*Refer to page 18 of Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix H

General Matters	Details	Acknowledgement	Further Information
Tradesperson parking permits	- Tradesperson parking permits can be issued for both small-scale renovations and large-scale developments. - If the development is occurring in a residential area, these permits are only issued for a maximum of 4 weeks and charged an applicable rate per bay, per week. - If the development is occurring in a commercial area, permits may be issued for parking bays and charged at an applicable rate per bay, per day.	I acknowledge that I must obtain the relevant permits from Council's Traffic and Transport Department: Redacted **Signed** **Dated**: 10/2/22	*Refer to page 18 of Council's Construction Management Plan Guidelines.*

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Heavy Vehicle Movements

General Matters	Details	Acknowledgement	Further Information
Movement of heavy vehicles to and from the construction site.	- The National Heavy Vehicle Regulator (NHVR) is a national body which deals with the regulation of all vehicles over 4.5 tonnes gross vehicle mass. - The NHVR also coordinates road access permits for heavy vehicles. New permits or renewal of an existing permit should be made directly to NHVR. Any application made to the NVHR for consent for large vehicles will be reviewed and approved by Council's Asset Management Department. - A Traffic Management Plan (TMP) may be required where there are specific issues relating to heavy vehicle movements and truck routes which that need to be addressed. The CMP condition on the Planning Permit will identify any such requirement. The TMP should be attached at **Appendix G** of the CMP.	I acknowledge that I must obtain the relevant consent from the National Heavy Vehicle Regulator and any consent for large vehicles must be submitted to Council's Asset Management Department. Redacted **Signed**: ..... **Dated**: ...10/2/22	*Refer to pages 18-19 of Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix G

Trees

General Matters	Details	Acknowledgement	Further Information
Any specific Planning Permit conditions relating to the retention and protection of vegetation on the site or neighbouring properties must be met (as applicable)	- Permit Condition - Arborist Report - Tree Management Plan	I acknowledge any planning permit conditions relating to the removal of trees from the subject site: Redacted **Signed**: ..... **Dated**: ..10/2/22.	*Refer to pages 19-20 of Council's Construction Management Plan Guidelines.*

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General Matters	Details	Acknowledgement	Further Information
Trees to be retained or protected under the Council's Local Law may apply to remove a 'significant' or 'canopy' tree or to carry out works within the structural root zone or to prune a 'significant' tree (as applicable)	*A canopy tree* – is any tree with a total trunk circumference or a combined multi-stem circumference of 110cm or more (see diagrams below), measured at a point approximately 1.5 metres from the ground *The critical root zone* - means the area surrounding a significant tree's trunk or a canopy tree's trunk which contains the roots that are essential to the tree's continued health, vigour and stability, being a circular area below the tree extending at equal proportions from the base, the diameter of which is ten times the trunk diameter measured at 1.5 metres above ground level	I acknowledge that permission to remove canopy trees from the subject site must be obtained in accordance with Council's Tree Local Law: *Redacted* **Signed** ..... **Dated:** 10/2/22	*Refer to pages 19-20 of Council's Construction Management Plan Guidelines.*

A Tree Management Plan may be required where specific requirements to protect trees is present and will be specified in a Tree Management Plan approved as part of the Planning Permit. Any Tree Management Plan should be attached as Appendix I to the CMP submitted for approval	*Refer to pages 19-20 of Council's Construction Management Plan Guidelines.*

Attach any additional documents as Appendix I



1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODES FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAINS AND DRAINAGE RUNOFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUNOFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUNOFF.
5. COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR, WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600x600mm FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA), TECHNICAL BULLETIN ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
6. SULPHATE RESISTANT CEMENT (C20-DC3) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES
9. SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NONE VEHICULAR ACCESS AREAS) THEN A 175mm CONCRETE SLAB OVER SEWER SHALL BE PROVIDED.
10. ALL PIPEWORK 300mm DIAM, OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65, MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA. 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m, 300mm DIA 72kN/m.
11. ALL PIPEWORK 375mm DIAM, OR GREATER TO BE CONCRETE CLASS 120, TO EN 1916 / BS 5911-1: 2002.
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE "C" BRICK MANHOLES AND 1050mm DIAM. MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIAM. OR 1350mm DIAM. RINGS, WITH THE OPENING SIGHTED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.
14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH KIRKLEES COUNCIL SPECIFICATION.
15. GULLY COVER AND FRAMES SHALL BE D400 DUCTILE IRON AND COMPLY WITH EUROPEAN STANDARD BS EN 124, THOSE SIGHTED IN ACCESSIBLE AND MEWS COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS.
16. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-2 (TABLE A).
17. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNELS IN MANHOLES. YORKSHIRE WATER HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE AS THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON BENCHING.
18. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES BUILT INTO IT TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
19. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPE, APPROX 300mm IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY BE INCREASED.

ALL PIPEWORK 300mm DIAM OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65. MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m and 300mm DIA 72kN/m.
ALL PIPEWORK 375mm DIAM OR GREATER TO BE CONCRETE CLASS 120, TO EN 1916 / BS 5911-1:2002.
ADOPTABLE SEWERS TO BE LAID IN CLASS 'S' GRANULAR BED & SURROUND.

RISK ASSESSMENT IDENTIFY ANY RISKS THAT CANNOT BE DESIGNED OUT		
RISK	LEVEL OF RISK (H/M/L)	SUGGESTED ACTION
DEEP EXCAVATIONS ASSOCIATED WITH HIGH DRAINAGE WORKS	HIGH	ENSURE ALL EXCAVATIONS ARE ADEQUATELY BATTERED OR SUPPORTED
HANDLING LARGE DIAMETER MANHOLE RINGS AND CIRCULAR PIPES	HIGH	ENSURE LIFTING EQUIPMENT IS ADEQUATE FOR THE LOAD AND THAT ALL LIFTING GEAR IS REGULARLY INSPECTED AND CERTIFICATED
CONTACT WITH SEWAGE	MED	OPERATIVES TO USE CORRECT BREATHING EQUIPMENT WHERE APPROPRIATE
NOISE	MED	OPERATIVES TO USE CORRECT EAR PROTECTION WHERE APPROPRIATE
DRAINAGE EXCAVATIONS ADJACENT TO EXISTING BOUNDARY STRUCTURES	HIGH	ENSURE CARE IS TAKEN WHEN EXCAVATING ADJACENT TO EXISTING BOUNDARY STRUCTURES
DRAINAGE EXCAVATIONS IN PUBLIC HIGHWAY	HIGH	ENSURE SUFFICIENT STAFF ARE EMPLOYED TO MAINTAIN ADEQUATE TRAFFIC CONTROL
MAINTAIN ACCESS TO ADJACENT PROPERTIES AND OCCUPIERS	HIGH	ENSURE THAT ACCESS TO ADJACENT PROPERTIES IS MAINTAINED AT ALL TIMES
DRAINAGE EXCAVATIONS NEAR TO EXISTING SERVICES	HIGH	ENSURE THAT ALL SERVICES ARE LOCATED AND MARKED PRIOR TO ANY EXCAVATIONS TAKING PLACE
WORKING IN CONFINED SPACES, WORKING IN DRAINS AND MANHOLES	HIGH	CONFINED SPACE WORKING TO BE LIMITED TO THE ABSOLUTE MINIMUM. ALL CONFINED SPACE WORKING TO BE CARRIED OUT BY TRAINED AND COMPETENT OPERATIVES. ENSURE ALL EQUIPMENT IS SUITABLE FOR THE TASK TO BE UNDERTAKEN
WORKING ON HIGHWAYS RISKS FROM VEHICLE AND PLANT	HIGH	ALL WORKS WITHIN HIGHWAYS TO COMPLY WITH NRSWA, THE NEW ROADS AND STREET WORKS ACT 1991 AND THE TRAFFIC MANAGEMENT ACT 2004. ALL OPERATIVES TO WEAR HIGH VISIBILITY CLOTHING. ALL PLANT TO HAVE REVERSING ALARMS FITTED.
ROAD AND DRAINAGE CONSTRUCTION	HIGH	ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION ALL DRAWINGS AND SPECIFICATIONS. ANY ALTERNATIVES TO BE AGREED WITH THE DESIGNER BEFORE COMMENCEMENT OF WORKS.

IT IS ASSUMED THAT WORK IS UNDERTAKEN WITH THE BENEFIT OF BEING UNDERTAKEN BY A PERSON OR PERSONS WHO ARE COMPETENT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE & EXPERTISE.

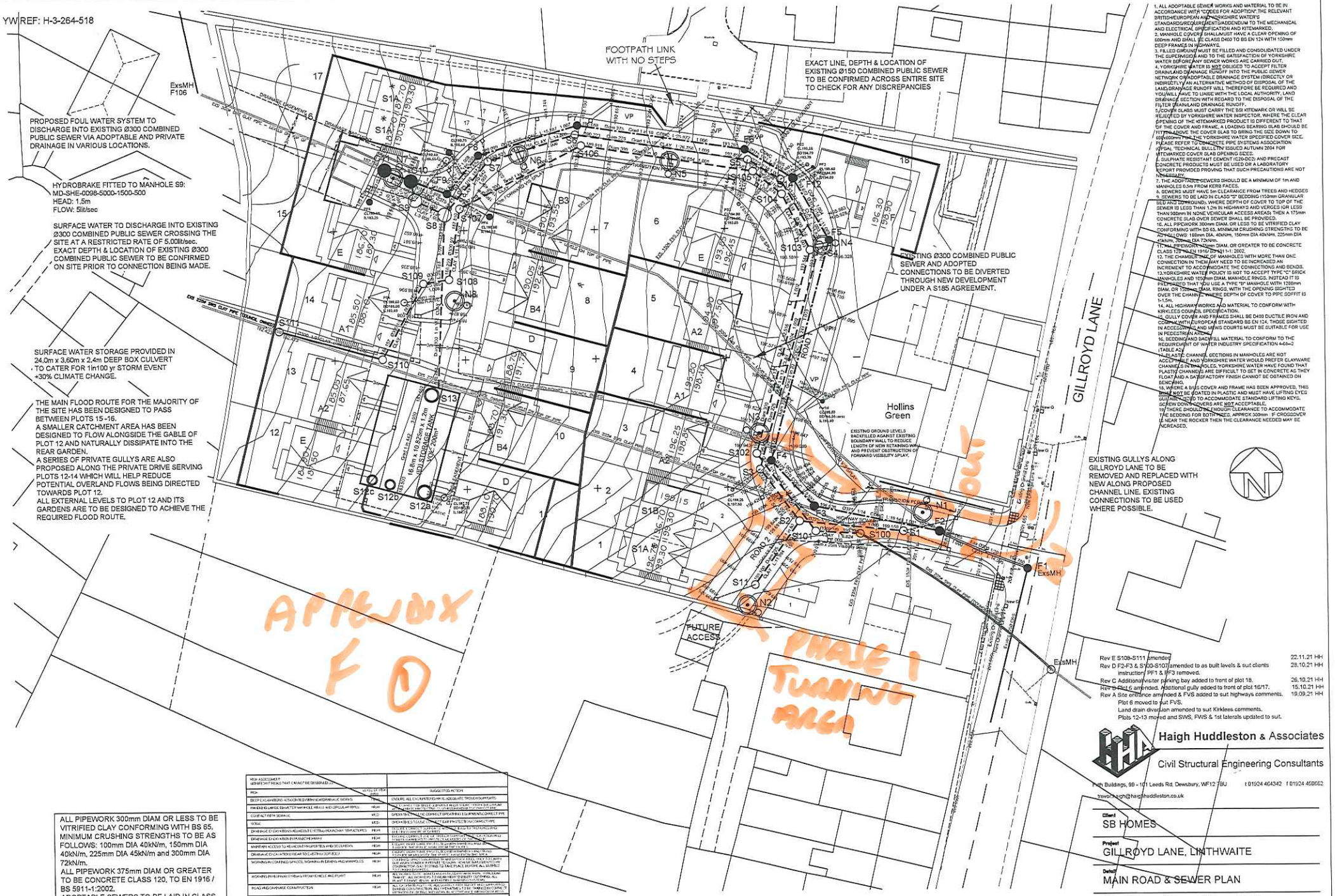
Rev E	S108-S111 amended	22.11.21 HH
Rev D	F2-F3 & S100-S107 amended to as built levels & suit clients instruction, PF1 & PF3 removed.	28.10.21 HH
Rev C	Additional visitor parking bay added to front of plot 18.	26.10.21 HH
Rev B	Plot 6 amended. Additional gully added to front of plot 16/17.	15.10.21 HH
Rev A	Site entrance amended & FVS added to suit highways comments. Plot 6 moved to suit FVS. Land drain diversion amended to suit Kirklees comments. Plots 12-13 moved and SWS, FWS & 1st laterals updated to suit.	18.09.21 HH

Haigh Huddleston & Associates
Civil Structural Engineering Consultants
Bath Buildings, 99 - 101 Leeds Rd, Dewsbury, WF12 7BU t 01924 464342 f 01924 450662
trevor.haigh@haighhuddleston.co.uk

Client: SB HOMES
Project: GILLROYD LANE, LINTHWAITE
Detail: MAIN ROAD & SEWER PLAN

Drn	Chkd	Date	Scale	Dwg No.
HH		Aug-21	1:250@A1	E16/5781/004E

YW REF: H-3-264-518



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6. SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES
9. SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NONE VEHICULAR ACCESS AREAS) THEN A 175mm CONCRETE SLAB OVER SEWER SHALL BE PROVIDED.
10. ALL PIPEWORK 300mm DIAM. OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65, MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA. 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m, 300mm DIA 72kN/m.
11. ALL PIPEWORK 375mm DIAM. OR GREATER TO BE CONCRETE CLASS 120 TO EN 1916 / BS 5911-1:2002.
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE "C" BRICK MANHOLES AND 1050mm DIAM. MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIAM. OR 1350mm DIAM. RINGS, WITH THE OPENING SIGHTED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.
14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH KIRKLEES COUNCIL SPECIFICATION.
15. GULLY COVER AND FRAMES SHALL BE D400 DUCTILE IRON AND COMPLY WITH EUROPEAN STANDARD BS EN 124, THOSE SIGHTED IN ACCESS ROAD AND MEWS COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS.
16. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-03-2 TABLE A2.
17. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNELS IN MANHOLES, YORKSHIRE WATER HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO GET IN CONCRETE AS THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON BENCHING.
18. WHERE A S185 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES (LIFT AID) CUT TO ACCOMMODATE STANDARD LIFTING KEYS, SCREW DOWN COVERS ARE NOT ACCEPTABLE.
19. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTTOM PIPES, APPROX 300mm + CROSSOVER IF NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY BE INCREASED.

Rev E S108-S111 amended	22.11.21 HH
Rev D F2-F3 & S103-S107 amended to as built levels & suit clients instruction/ PF1 & PF3 removed.	28.10.21 HH
Rev C Additional visitor parking bay added to front of plot 18.	26.10.21 HH
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ALL PIPEWORK 300mm DIAM OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65. MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m and 300mm DIA 72kN/m.
ALL PIPEWORK 375mm DIAM OR GREATER TO BE CONCRETE CLASS 120, TO EN 1916 / BS 5911-1:2002.
ADOPTABLE SEWERS TO BE LAID IN CLASS 'S' GRANULAR BED & SURROUND.

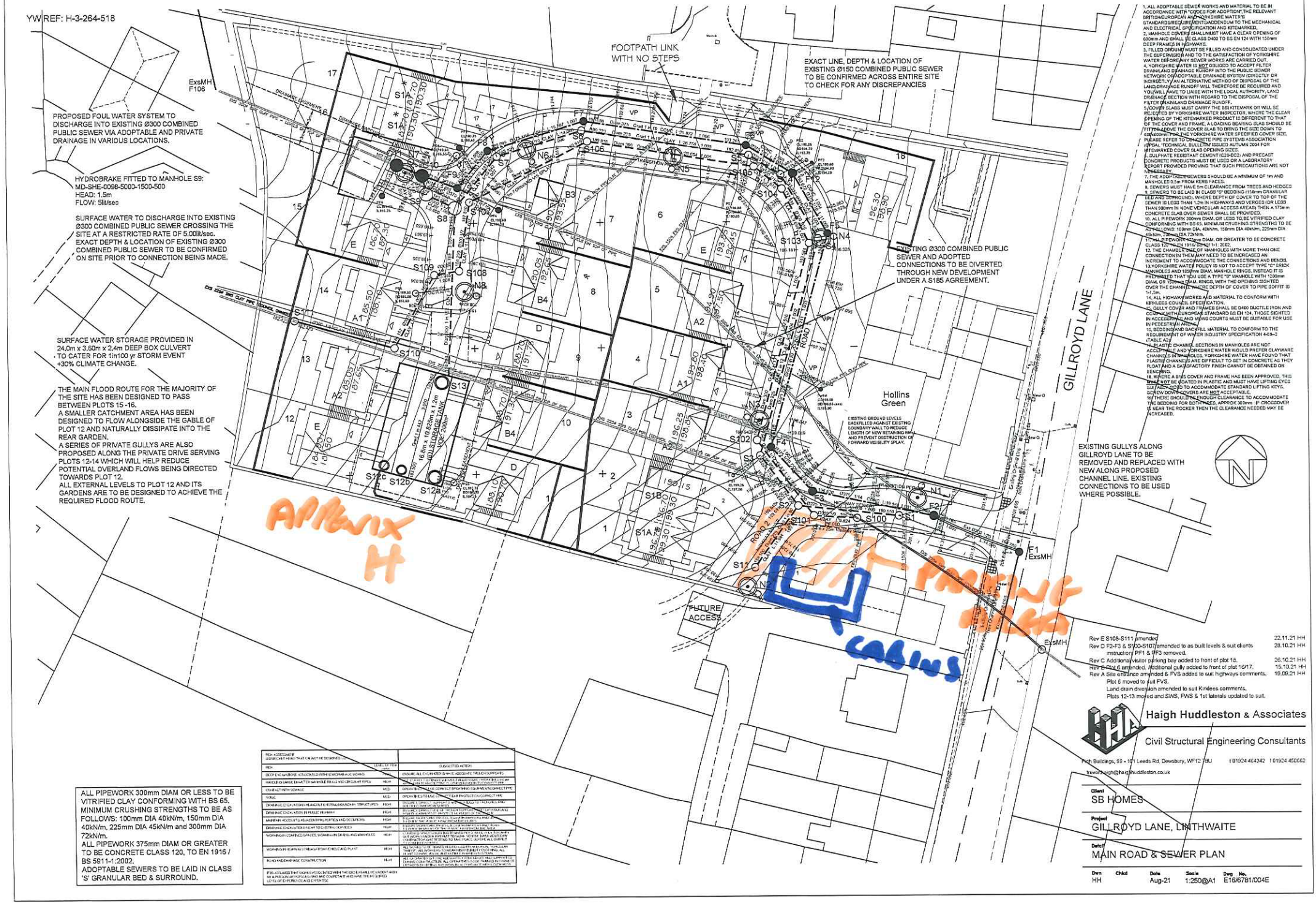
RISK ASSESSMENT IDENTIFICATION OF RISKS THAT CANNOT BE DESIGNED OUT		
RISK	LEVEL OF RISK (HIGH, MEDIUM OR LOW)	SUGGESTED ACTION
DEEP EXCAVATIONS/ ASSOCIATED WITH NEW DRAINAGE WORKS	HIGH	ENSURE ALL EXCAVATIONS ARE ADEQUATELY SUPPORTED.
HANDLING LARGE DIAMETER MANHOLE RINGS AND CIRCULAR PIPES	HIGH	
CONTACT WITH SEWAGE	MED	
NOISE	LOW	
DRAINAGE EXCAVATIONS ADJACENT EXISTING ROADWAY STRUCTURES	HIGH	
DRAINAGE EXCAVATION IN ROCK/HARDPAN	HIGH	
MAINTAIN ACCESS TO ADJACENT PROPERTIES AND SERVICES	HIGH	
DRAINAGE EXCAVATIONS NEAR TO EXISTING SERVICES	HIGH	
WORKING IN CONFINED SPACES, WORKING IN TRENCHES AND MANHOLES	HIGH	
WORKING IN HIGHWAY/ STRUCTURES FROM VEHICLE AND PLANT	HIGH	
ROAD AND DRAINAGE CONSTRUCTION	HIGH	

IT IS ASSUMED THAT WORK IS TO BE UNDERTAKEN WITH THE DESIGN WILL BE UNDERTAKEN BY A PERSON OR PERSONS WHO ARE COMPETENT AND HAVE THE RESOURCES, TO CARRY OUT THE WORK IN A MANNER THAT IS WITHOUT RISK TO HEALTH AND SAFETY SO FAR AS IS REASONABLY PRACTICABLE.

Haigh Huddleston & Associates
Civil Structural Engineering Consultants
Firth Buildings, 98 - 101 Leeds Rd, Dewsbury, WF12 7BU t 01924 464342 f 01924 460662
trevor.haigh@haighhuddleston.co.uk

Client: SB HOMES
Project: GILLROYD LANE, LINTHWAITE
Detail: MAIN ROAD & SEWER PLAN

Drwn	Chkd	Date	Scale	Dwg No.
HH		Aug-21	1:250@A1	E16/6781/004E



1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODES FOR ADOPTION", THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAINS AND DRAINAGE RUNOFF INTO THE PUBLIC SEWER NETWORK OR SUDS/FOR DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY) AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUNOFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUNOFF.
5. COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR, WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600x600mm TO SUIT THE YORKSHIRE WATER SPECIFIED COVER SIZE, PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA) TECHNICAL BULLETIN ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
6. SULPHATE RESISTANT CEMENT (CZ/DC/DC) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES
9. SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NONE VEHICULAR ACCESS AREAS) THEN A 175mm CONCRETE SLAB OVER SEWER SHALL BE PROVIDED.
10. ALL PIPEWORK 300mm DIAM, OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65, MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA. 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m, 300mm DIA 72kN/m.
11. ALL PIPEWORK 375mm DIAM, OR GREATER TO BE CONCRETE CLASS 120, TO EN 1916 / BS 5911-1: 2002.
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE "C" BRICK MANHOLES AND 1050mm DIAM. MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIAM. OR 1350mm DIAM. RINGS, WITH THE BENCHING SIGHTED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1+1.5m.
14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH KIRKLEES COUNCIL SPECIFICATION.
15. GULLY COVER AND FRAMES SHALL BE D400 DUCTILE IRON AND COMPLY WITH EUROPEAN STANDARD BS EN 124, THOSE SIGHTED IN ACCESSIBLE AND MEWS COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS.
16. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION A-bb-2 (TABLE A5).
17. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNELS IN MANHOLES. YORKSHIRE WATER HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE AS THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON BENCHING.
18. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS SHALL NOT BE COATED IN PLASTICS AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
19. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPES. APPROX 200mm IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY BE INCREASED.

Rev	Description	Date	By
E	S106-S111 amended	22.11.21	HH
D	F2-F3 & S100-S107 amended to as built levels & suit clients instruction/ PP1 & PP3 removed.	28.10.21	HH
C	Additional visitor parking bay added to front of plot 18.	26.10.21	HH
B	Plot 6 amended. Additional gully added to front of plot 16/17.	15.10.21	HH
A	Site entrance amended & FVS added to suit highways comments. Plot 6 moved to suit FVS. Land drain diversion amended to suit Kirklees comments. Plots 12-13 moved and SWS, FWS & 1st laterals updated to suit.	19.09.21	HH

RISK ASSESSMENT (RISKS OF HEALTH THAT CANNOT BE DESIGNED OUT)	LEVEL OF RISK (HIGH, MED, LOW)	SUGGESTED ACTION
RISK		
DEEP EXCAVATIONS >1.2m DEPTH (CONFINED)	HIGH	ENSURE ALL EXCAVATIONS WITH ADEQUATE TRENCH SUPPORTS
HANDLING LARGE CONCRETE MANHOLE RINGS AND CIRCULAR PIPES	HIGH	ENSURE CORRECT LIFTING EQUIPMENT IS USED - OPERATIVES ARE TRAINED IN CORRECT LIFTING PROCEDURES
CONTACT WITH SEWAGE	MED	OPERATIVES TO USE CORRECT PROTECTIVE CLOTHING
NOISE	MED	OPERATIVES TO USE CORRECT EAR PROTECTION WHERE NECESSARY
DRAINAGE EXCAVATIONS ADJACENT TO EXISTING BUILDINGS / STRUCTURES	HIGH	ENSURE CORRECT SUPPORT IS PROVIDED TO EXISTING FOUNDATIONS
DRAINAGE EXCAVATIONS IN PUBLIC HIGHWAY	HIGH	ENSURE CORRECT LEVEL OF TRENCH SUPPORT IS PROVIDED AND ADEQUATE SAFETY MEASURES ARE IN PLACE
MAINTAIN ACCESS TO ADJACENT PROPERTIES AND OCCUPIERS	HIGH	ENSURE ADEQUATE ACCESS IS MAINTAINED AT ALL TIMES
DRAINAGE EXCAVATIONS NEAR TO OVERHEAD POWER	HIGH	ENSURE SAFE METHOD OF WORKING IS USED AND ADEQUATE SAFETY MEASURES IN THE VICINITY OF THE POWER LINE
WORKING IN CONFINED SPACES, WORKING IN DRAINS AND MANHOLES	HIGH	CONFINED SPACE ENTRY TO BE CARRIED OUT BY TRAINED OPERATIVES WITH ADEQUATE SAFETY EQUIPMENT AND SUPERVISION
WORKING IN PROXIMITY TO TRAFFIC AND PLANT	HIGH	ALL WORKS TO BE SIGNED IN ACCORDANCE WITH APPROVED TRAFFIC MANAGEMENT PLAN. ENSURE HIGH VISIBILITY CLOTHING IS WORN BY ALL OPERATIVES AT ALL TIMES.
ROAD AND DRAINAGE CONSTRUCTION	HIGH	ALL OF THE ABOVE TO BE ADDRESSED IN THE CONSTRUCTION PHASE HEALTH AND SAFETY PLAN TO BE PREPARED BY THE CONTRACTOR. ALL OPERATIVES TO BE MADE AWARE OF THE RISKS ASSOCIATED WITH CONSTRUCTION WORKS

IT IS ASSUMED THAT WORKS WILL BE CARRIED OUT IN ACCORDANCE WITH THE DOCUMENTS PREPARED BY A PERSON OF APPROPRIATE AND COMPETENCE AND THAT THE REQUIRED LEVEL OF EXPERIENCE AND EXPERTISE

Haigh Huddleston & Associates
Civil Structural Engineering Consultants
Huddersfield, 99 - 101 Leeds Rd, Dewsbury, WF12 7BU
T 01924 464342 F 01924 450602
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