

**GENERAL SAFETY NOTES**

- WHERE THE BASE (ROAD BASE) HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILIZATION AND PROTECTION OF THE SURFACE IMMEDIATELY BEFORE THE BINDER COURSE IS Laid TO A THICK COAT OF BITUMEN EMULSION CLASS 4/5 OR 4/10/20 SHALL BE APPLIED AT A RATE OF 2.0 TO 3.0 LITRES PER SQUARE METRE.
- ALL ROADWORK SHALL BE FORMED WITH PROPER RADIUS TRANSITIONS.

**HEALTH & SAFETY**

- CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.
- CONTRACTOR TO PROVIDE TRIP/TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
- THE TIME THAT OCCUPATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT HEALTHY SOILS AS WELL AS LIFE/SOILS (HEALTHY SOILS) AND RECOMMENDED PRECAUTIONS: ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
- UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIERS.

**PERMITS & CABLES**

- CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORK COMMENCING.
- SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND AND PROTECTED ACCORDINGLY.

**EXCAVATIONS**

- CONTRACTOR TO ENSURE RELEVANT MEASUREMENTS ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
- CONTRACTOR TO PROVIDE TO OBTAIN INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

**YORKSHIRE WATER**

- ADAPTABLE SEWER TO BE 150MM DIA (MINIMUM) TO MS4-4040.
- ADAPTABLE SEWER PIPES TO BE Laid IN MANHOLE 1 METRE LENGTHS UNLESS THERE IS A SPECIFIC REQUIREMENT TO VARY LENGTHS.
- PLASTIC CHANNEL SECTIONS IN MANHOLES NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CHANNELS IN MANHOLES TO BE Laid IN PLASTIC CHANNELS. OFFICIALS TO SET IN CONCRETE BECAUSE THEY FLAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON THE BRICKING.
- WHERE PLASTIC PIPES ARE INSTALLED INTO THE GROUND PRIOR TO APPROVAL, THE SUBLEADER SHALL HAVE TO PROVIDE A LIGHT LINE CCTV SURVEY AND REPORT OF THE PROPOSED ADAPTABLE SEWER.

**DRAINAGE SPECIFICATIONS FOR YORKSHIRE WATER**

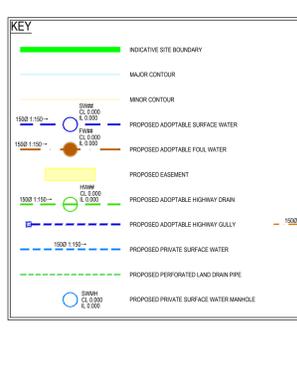
- ALL ADAPTABLE SEWERS WITHIN AND OUTSIDE TO BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDANCE UNDER THE CODE FOR ADOPTED AGREEMENTS. THE RELEVANT SPECIFICATIONS AND YORKSHIRE WATER'S STANDARD SPECIFICATIONS TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND NOTED THEREON.
- MANHOLE COVERS SHALL BE 1500mm DIA AND SHALL BE CLASS D40 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
- FILLED ROADWAYS MUST BE Laid AND CONSTRUCTED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
- YORKSHIRE WATER WILL NOT COLLECT OR ACCEPT A SEWER DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADAPTABLE DRAINAGE SYSTEMS (DIRECTLY OR INDIRECTLY) UNLESS AN ALTERNATIVE METHOD OF DISPOSAL OF THE DRAINAGE RUN-OFF SHALL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LAMBE WITH THE LOCAL AUTHORITY. DRAINAGE SYSTEMS TO BE REFERRED TO THE CORPUS OF THE LATER DRAINAGE DRAINAGE.
- COVER GULLIES MUST CARRY THE DESIGN LOAD AND BE Laid TO YORKSHIRE WATER'S SPECIFICATIONS. WHERE THE CLEAR OPENING OF THE EXCAVATED PRODUCT IS GREATER THAN THAT OF THE COVER AND FRAME, A COVERING BEARING SURFACE SHALL BE FITTED ABOVE THE COVER AND TO BE Laid TO YORKSHIRE WATER'S SPECIFICATIONS. TO PROVIDE A BULLET RESISTANT AUTOMATIC COVER WITH REMOVABLE COVER.
- LABOURATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
- THE ADAPTABLE SEWER SHALL BE A MINIMUM OF 150mm DIA AND SHALL BE Laid IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ADOPTING AUTHORITY OR, IN THE ABSENCE OF SUCH IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT PROVISIONS OF BS EN 124 AND RELEVANT PROVISIONS OF A.L.C. SPECIFICATION FOR THE REINFORCEMENT OF OPENINGS IN HIGHWAYS AND STRUCTURES TO BE INSTALLED IN THE NEW HIGHWAY WORKS.
- ALL TRADITIONAL RAINWATER PIPE DOWN COVERS TO BE DISCHARGED TO TRAPPED GULLIES.
- ALL DOWN COVERS TO BE TRAPPED GULLIES.
- ALL GULLY LEADS TO BE 150mm DIA.
- ALL REINFORCED EXISTING GULLIES TO BE DISBURSED UP OR GROUTED. ANY EXISTING LIVE DRAINAGE SHALL BE REPORTED TO THE ENGINEER AND RECONNECTED.
- THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION THAT MAY NEED TO BE INCREASED IN ORDER TO ACCOMMODATE THE CONNECTIONS AND BENDS.
- YORKSHIRE WATER SHALL NOT ACCEPT TYPE 'C' BRICK MANHOLES AND 1000mm DIA MANHOLE FRINGS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A TYPE 'A' MANHOLE WITH 1000mm DIA FRINGS WITH THE OPENING OVER THE CHAMBER. THE OPENING TO BE COVERED BY TYPE 'B' 1.5m DIA.
- ALL ADAPTABLE PLASTIC SEWER PIPES TO BE 150MM DIA (MINIMUM) TO MS4-4040 (UNLESS OTHERWISE SPECIFIED) AND TO BE Laid IN MANHOLE 1 METRE LENGTHS UNLESS THERE IS A SPECIFIC REQUIREMENT TO VARY LENGTHS.
- ADAPTABLE PLASTIC SEWER PIPES TO BE Laid IN MANHOLE 1 METRE LENGTHS UNLESS THERE IS A SPECIFIC REQUIREMENT TO VARY LENGTHS. YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNELS IN MANHOLES AND REINFORCED CONCRETE CHANNELS TO BE Laid IN CONCRETE BECAUSE THEY FLAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON THE BRICKING.
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**OTHER DRAINAGE NOTES**

- ALL PRIVATE DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS 2010 EDITION.
- CONTRACTOR TO ESTABLISH POSITION SIZE AND DEPTH OF ALL EXISTING SEWERS AND SERVICES PRIOR TO COMMENCING WORKS ON SITE.
- CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.
- CONTRACTOR SHALL ALLOW FOR SEWERS SEWER TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY SPRINKLING TEMPORARY BARRIERS AND WATERING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY.
- WHERE CLAY PIPES AND FITTINGS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 AND BS EN 1245. ALL PIPES SHALL BE EXTRA STRENGTH 150mm OR EQUIVALENT STRENGTH PER CONSTRUCTION NOTES.
- PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911 AND BE FITTED WITH CONCRETE FRAMES TO CLASS 30 UNLESS NOTED OTHERWISE.
- GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 AND BE OF A MINIMUM OF 150mm DIA. ALL GULLY GRATES SHALL BE Laid IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ADOPTING AUTHORITY OR, IN THE ABSENCE OF SUCH IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT PROVISIONS OF A.L.C. SPECIFICATION FOR THE REINFORCEMENT OF OPENINGS IN HIGHWAYS AND STRUCTURES TO BE INSTALLED IN THE NEW HIGHWAY WORKS.
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- ALL ADAPTABLE PLASTIC SEWER PIPES TO BE 150MM DIA (MINIMUM) TO MS4-4040 (UNLESS OTHERWISE SPECIFIED) AND TO BE Laid IN MANHOLE 1 METRE LENGTHS UNLESS THERE IS A SPECIFIC REQUIREMENT TO VARY LENGTHS.
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- WHERE PLASTIC PIPES ARE INSTALLED INTO THE GROUND PRIOR TO APPROVAL, THE SUBLEADER SHALL HAVE TO PROVIDE A LIGHT LINE CCTV SURVEY AND REPORT OF THE PROPOSED ADAPTABLE SEWER. THIS MUST BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUFFICIENTLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SLOPE DOWN COVERS AND ACCEPTABLE.

**DESIGN NOTES**

- ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
  - BS EN 12450:2010
  - BS EN 12451:2010
  - BS EN 12452:2010
  - BS EN 12453:2010
  - BS EN 12454:2010
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  - BS EN 12456:2010
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  - BS EN 12495:2010
  - BS EN 12496:2010
  - BS EN 12497:2010
  - BS EN 12498:2010
  - BS EN 12499:2010
  - BS EN 12500:2010
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**DRAINAGE NOTES**

- ALL PIPES 100mm UNLESS OTHERWISE STATED.
- ALL PRIVATE FOUL WATER PIPES NOT INDICATED TO BE A MINIMUM OF 100mm INSTALLED AT 1%.
- ALL PRIVATE SURFACE WATER PIPES NOT INDICATED TO BE A MINIMUM OF 100mm INSTALLED AT 1%.
- CONTRACTOR TO PROVIDE ADEQUATE PROTECTION AND PROTECTION WITH THE RELEVANT UNDERGROUND SERVICES TO AVOID DAMAGE TO EXISTING SERVICES AND TO BE INSTALLED IN ACCORDANCE WITH THE RELEVANT UNDERGROUND SERVICES TO AVOID DAMAGE TO EXISTING SERVICES AND TO BE INSTALLED IN ACCORDANCE WITH THE RELEVANT UNDERGROUND SERVICES TO AVOID DAMAGE TO EXISTING SERVICES.
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10.02.17 LATEST SITE PLAN ADDED

10.02.17 FIRST ISSUE

REVISIONS

Date	Revised	By	App'd

PRELIMINARY

NORTH EAST 0119 258632

YORKSHIRE 0113 333393

CONSULTING ENGINEERS

RWO CONSULTING ENGINEERS

www.rwogroup.co.uk

Project: ROCKINGHAM PHASE 2 BIRDWELL

Sheet: PROPOSED DRAINAGE LAYOUT SHEET 1 OF 3

DO NOT SCALE

Scale: 1:250

Drawn: VJB

Checked: AAF

Date: 10.02.17

Job No: Y20112

Day No: D200

Rev: 2