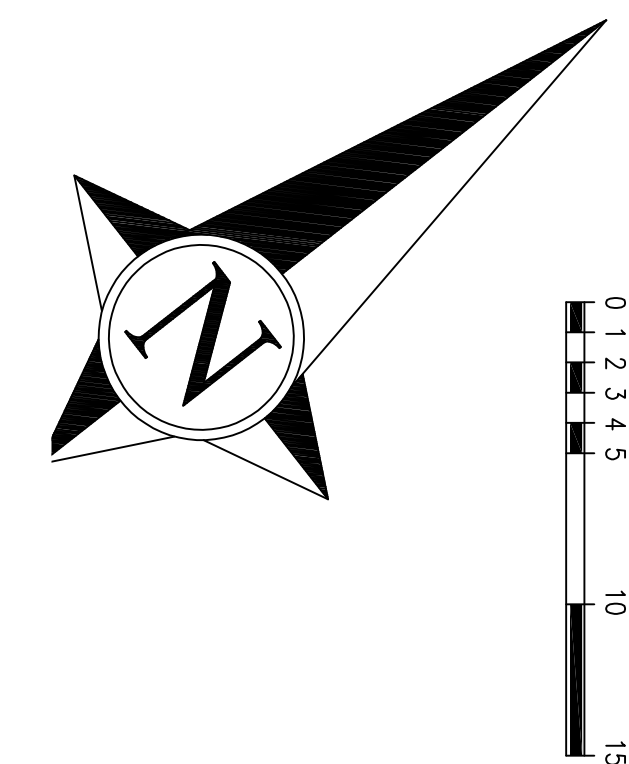


HEALTH & SAFETY:
 ALL WORKS TO BE CARRIED OUT BY A CONTRACTOR COMPETENT TO UNDERTAKE THE CONSTRUCTION OF WORKS AS INDICATED ON THIS DRAWING. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE JOB SPECIFIC RISK ASSESSMENT. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.



- NOTES**
1. THIS DRAWING IS COPYRIGHT.
 2. DO NOT SCALE THIS DRAWING. THE CONTRACTOR IS TO BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCIES CONTAINED IN THIS DRAWING PRIOR TO WORK COMMENCEMENT.
 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST SUB-CONTRACTORS DRAWINGS AND THE SPECIFICATION.
 4. ALL SETTING OUT TO BE IN ACCORDANCE WITH THE ENGINEERS DRAWINGS. CONTRACTOR TO CHECK AND IDENTIFY ANY DISCREPANCIES TO ENGINEER. DIMENSIONS MUST NOT BE SCALED.
 5. THIS DRAWING HAS BEEN PRODUCED BASED UPON LAYOUTS COMPILED AND SUPPLIED BY THE ARCHITECT AND HIGHWAYS ENGINEER IN ELECTRONIC FORMAT. NO RESPONSIBILITY IS TAKEN FOR ANY INACCURACIES AND/OR OMISSIONS IN THE INFORMATION AS SUPPLIED.

- LEGEND**
- F1 ● PROPOSED FOUL WATER MANHOLE
 - PROPOSED SURFACE WATER ACCESS CHAMBER (250mm DIA)
 - PROPOSED FOUL WATER ACCESS CHAMBER (250mm DIA)
 - PROPOSED SURFACE WATER INSPECTION CHAMBER (450mm DIA)
 - PROPOSED FOUL WATER INSPECTION CHAMBER (450mm DIA)
 - PROPOSED SILT TRAP CHAMBER (450mm DIA)
 - PROPOSED FOUL WATER SURFACE DRAINAGE (450mm DIA)
 - DENOTES BELOW GROUND FOUL DRAINAGE (BY OTHERS)
 - DENOTES EXISTING BELOW GROUND FOUL DRAINAGE (BY OTHERS)
 - DENOTES PROPOSED BELOW GROUND MAN HOLE
 - DENOTES RAINWATER HARVESTER
 - DENOTES SOAKAWAY
 - DENOTES VERTICAL FOUL STACK TO GROUND
 - DENOTES VERTICAL RAIN WATER STACK TO GROUND
 - DENOTES RODDING EYE
 - DENOTES SURFACE WATER INSPECTION CHAMBER (450mm DIA)
 - DENOTES SURFACE WATER ACCESS CHAMBER (250mm DIA)
 - DENOTES SURFACE WATER MANHOLE
 - DENOTES SOAKAWAY
 - DENOTES RAINWATER HARVESTER

NOTES

- 1 THIS DRAWING IS COPYRIGHT.
- 2 THE CONTRACTOR AND HIS SUBCONTRACTOR ARE TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO MAKING SHOP DRAWINGS OR COMMENCING MANUFACTURE.
- 3 DO NOT SCALE THIS DRAWING. THE CONTRACTOR IS TO BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCIES CONTAINED IN THIS DRAWING PRIOR TO WORK COMMENCEMENT.
- 4 ALL 150mm AND 225mm DIAMETER PIPES TO BE EXTRA STRENGTH VITRIFIED CLAY PIPES (SEE NOTE 15).
- 5 ALL PIPES OF 300mm DIAMETER OR GREATER TO BE CLASS M CONCRETE.
- 6 ALL PIPE MATERIALS TO BE CONSISTENT BETWEEN MANHOLES.
- 7 ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION AND THE SPECIFICATION FOR ADOPTION 9th EDITION. THE SPECIFICATION FOR ADOPTION 9th EDITION INCLUDES DESIGN AND MANUFACTURE AND LOCAL AUTHORITIES DESIGN WHERE THERE IS CONFLICT BETWEEN THESE DOCUMENTS THE LATTER SHALL BE REFERRED TO THE ENGINEER.
- 8 FOR CONSTRUCTION DETAILS OF MANHOLES AND SEWERS REFER TO SEWERS FOR ADOPTION AND UNDERTAKERS STANDARD DETAILS WHICH CAN BE OBTAINED FROM THE LOCAL OFFICE.
- 9 INVERT LEVELS OF EXISTING SEWERS TO BE CONFIRMED ON SITE BEFORE ANY SEWER WORK UNDERTAKEN. ANY DISCREPANCIES FOUND SHOULD BE NOTIFIED TO ENGINEERS.
- 10 WHERE SEWERS HAVE LESS THAN 1.2m OF COVER UNDER ROADS AND 0.9m COVER ELSEWHERE PIPES ARE TO HAVE A 150mm CONCRETE BED AND SURROUND.
- 11 PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL, TO TABLE 11 OF APPROVED DOCUMENT HT OF THE BUILDING REGULATIONS 2010.
- 12 WHERE HOUSE DRAINAGE IS TAKEN THROUGH BLOCK CARE IS TO BE TAKEN THAT FOUNDATION LEVELS AND DRAINAGE RUNS DO NOT CLASH.
- 13 ALL ADAPTABLE MANHOLES TO HAVE A MINIMUM CLEAR OPENING OF 675mmx675mm AND GRADE D400 UNO.
- 14 ALL BELOW GROUND DRAINAGE TO BE 100mm² UNLESS OTHERWISE INDICATED WITH A MIN. GRADIENT AS FOLLOWS:-
 S.W : 100mm Dia. 1:100
 S.W : 150mm Dia. 1:150
 F.W : 100mm Dia. 1:80
 F.W : 150mm Dia. 1:150
- 15 ALL ADAPTABLE DRAINAGE MATERIALS SHOULD COMPLY WITH THE REQUIREMENTS OF PART 1 CIVIL ENGINEERS SPECIFICATION INCLUDING THE SEWERS FOR ADOPTION 7TH EDITION WITH THE EXCEPTION FROM CSN1 7TH EDITION BUT IS NOT A FULL REPRODUCTION.



TENDER

Client: Crest
 Project: ELMSBROOK, BICESTER
 Phase: PHASE 3 & 4
 Plot: PLOT DRAINAGE LAYOUT
 Sheet: SHEET 5 OF 6
 Date: DEC 17
 Drawn: DC
 Checked: MD
 14790TA-3264

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