

- 1. DO NOT SCALE FROM THIS DRAWING. USE STATED DIMENSIONS ONLY. IF IN DOUBT, CONSULT THE ENGINEER.
 - LEVELS REFER TO O.S. DATUM MALIN HEAD.
 - 3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.
 - 4. FOR ALL INLETS, OUTLETS AND BRANCHES MATCH CROWN LEVELS UNLESS INDICATED OTHERWISE ELSEWHERE.
 - 5. BLINDING CONCRETE SHALL BE CLASS C12/15 TO E.N. 206-1. BLINDING SHALL BE A MINIMUM THICKNESS OF 100mm
 - 5. FOUNDATION CONCRETE SHALL BE CLASS C16/20 Dmax=20mm TO E.N. 206-1. FOUNDATIONS SHALL BE A MINIMUM THICKNESS OF 225mm.
 - '. COVER SLABS AND REDUCING SLABS TO BE CONSTRUCTED TO I.S. E.N. 1917 AND I.S.
 - . MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150mm THICK CONCRETE CLASS C16/20 Dmax=40mm TO E.N. 206-1
 - 9. BENCHING AND PIPE CHANNEL PIPE SURROUND CONCRETE CLASS C16/20 Dmax=20mm TO E.N. 206-1.
 - 10.BENCHING FINISHED IN MINIMUM 25mm THICK 2:1 SAND:CEMENT MORTAR WITH A SMOOTH TROWEL FINISH AT 1 IN 30 SLOPE TOWARDS CHANNEL
 - 11.1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS B TO I.S.91:1983 SET IN 3:1
- 2. MANHOLE COVERS AND FRAMES TO BE CLASS D400 OR E600 TO I.S. E.N. 124. 150mm DEEP FRAME FOR ROADS AND 100mm DEEP FOR FOOTPATHS AND GREEN AREAS. NON-ROCK DESIGN, CLOSED KEYWAYS, MANUFACTURED FROM SPHEROIDAL GRAPHITE CAST IRON (DUCTILE CAST IRON), COVER AND FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL, COVER TO HAVE A MINIMUM MASS OF 140kg/m², FRAME BEARING AREA SHALL BE 80,000mm² MINIMUM, FRAMES SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE. FRAMES SHALL BE
- 3. MANHOLE COVERS, FRAMES, REGULATING COURSES AND SLAB OPES TO PROVIDE CLEAR OPENING OF 600mmX600mm (OR 600mm DIAMETER). WHERE DEPTH OF COVER TO CROWN OF PIPE IS LESS THAN 2.0m, CLEAR OPENING TO BE 900mmX900mm (OR 900mm DIAMETER).
- 14. SAFETY CHAINS TO BE PROVIDED ON PIPES THAT EXCEED 450mm IN DIAMETER. MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE GRADE M(H) NON-CALIBRATED CHAIN, TYPE 1, COMPLYING WITH B.S.4942 PART 2 OR
- 15. STANDARD RUNGS AT 300mm c/c VERTICALLY AND GALVANIZED TO THE LATEST VERSION OF B.S. 729 OR EQUIVALENT. NOTE: STEPS IRONS ARE NOT ACCEPTABLE S.LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE
- 7.DISTANCE FROM THE TOP RUNG OF THE LADDER TO GROUND LEVEL MUST BE A MAXIMUM OF 500mm.
- 18. ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAINS ETC SHALL BE HOT DIP GALVANIZED TO B.S.729 OR EQUIVALENT
- 19. MANHOLE OPENINGS TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS / ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC
- 20 SHORT LENGTH PIPE AND PIPE JOINT EXTERNAL TO MANHOLE SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.
- 21.BLOCK WORK SHALL BE BEDDED AND JOINTED USING MORTAR TO I.S. 406. BEDS AND VERTICAL JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID. JOINTS SHALL BE FLUSH POINTED AS THE WORK PROCEEDS.
- 22.RELIEVING ARCH FORMED BY 215x103x65 SOLID ENGINEERING BRICK CLASS A OR B AS PER DRAWING. RELIEVING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXTEND OVER FULL THICKNESS OF WALL, A DOUBLE ARCH IS TO BE FORMED FOR PIPE DIAMETERS GREATER THAN 600mm
- 23.ALL MANHOLES TO BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER.

TABLE NO. 2	
DIA. OF PIPE	LENGTH OF
(mm)	ROCKER PIPE (mm)
150-600	600
675-750	1000
>750	1250
TABLE NO.3	
Diameter of Incoming Pipe	Diameter of Backdrop Pipe
(mm)	(mm)
100	100
150	150
225	300
300	375
375	375
450	450

ALL FOUL MANHOLES MUST BE FACED IN SOLID ENGINEERING BRICK (MIN. CLASS A OR B), OR IN-SITU CONCRETE FOR 1 METRE ABOVE BENCHING LEVEL, BRICK TO BE BONDED TO BLOCK WORK USING ENGLISH GARDEN WALL BOND.

450

450

PLANNING DRAWING.

NOT FOR CONSTRUCTION. ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM. THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

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 FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL AND ENGINEERING DRAWINGS AND ALL OTHER

FOR WHICH THE DOCUMENT WAS ORIGINALLY ISSUED.

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Rev No. Date Revision Note Drn by Chkd by Rev No. Date Revision Note P01 31.05.18 ISSUED FOR PLANNING PO2 08.06.18 SUITABLE FOR REVIEW/COMMENT JS CO1 19.06.18 ISSUED FOR PLANNING PO3 19.09.18 SUITABLE FOR REVIEW/COMMENT ΙK MK PO4 15.10.18 SUITABLE FOR REVIEW/COMMENT MK P05 26.10.18 SUITABLE FOR REVIEW/COMMENT OG MK CO2 14.11.18 STAGE COMPLETE - PLANNING ΑF MK

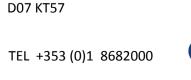


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PROPOSED DRAINAGE TYPICAL DETAILS

BELGARD GARDENS TALLAGHT

ATLAS GP LTD

PHASE 1

Code | Originator | Zone | Level | Type | Role | Number | Status | Revision A557- OCSC - XX - XX - DR - C -0520 A1 C02 Date: MAY '18 Scale: NTS @ A1 Drn by: JS Chkd by: MK Aprvd by: AH