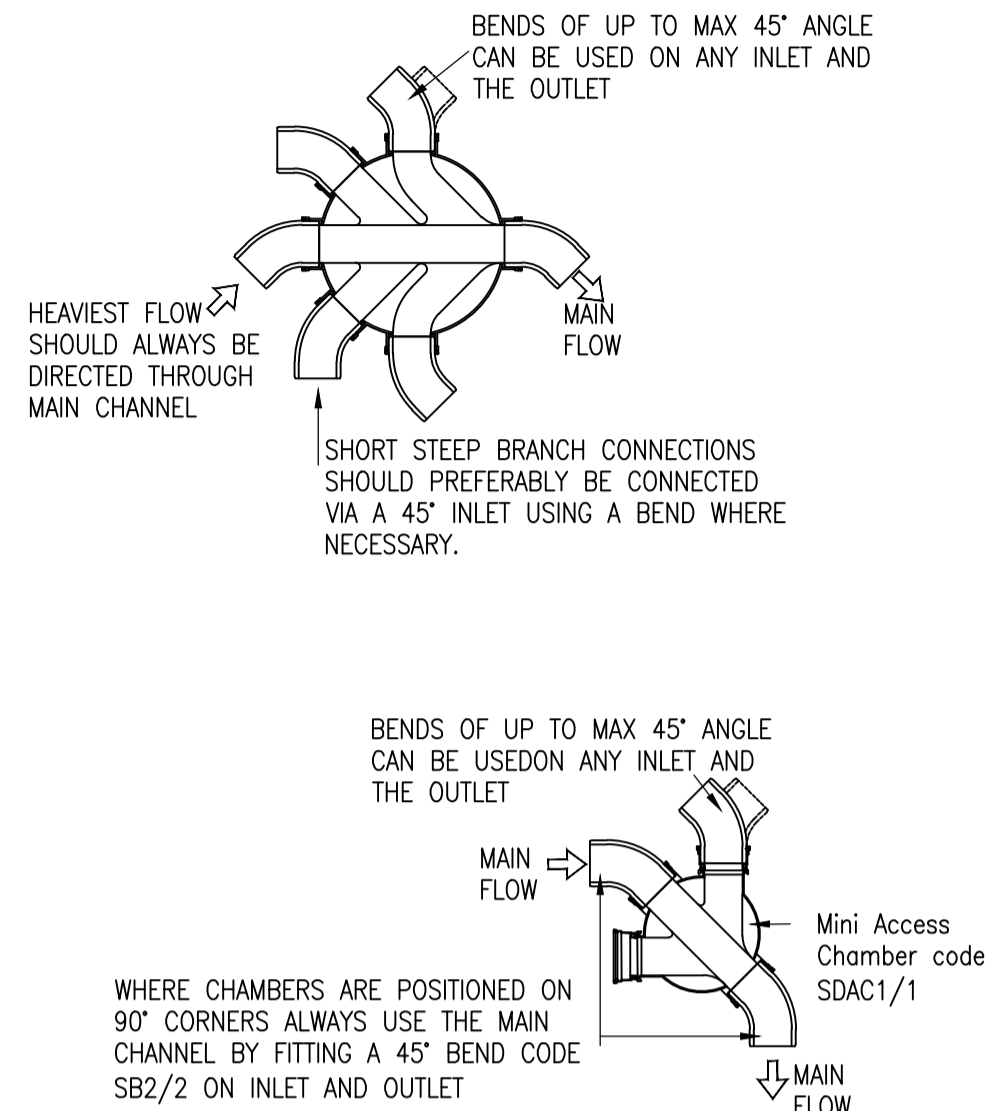
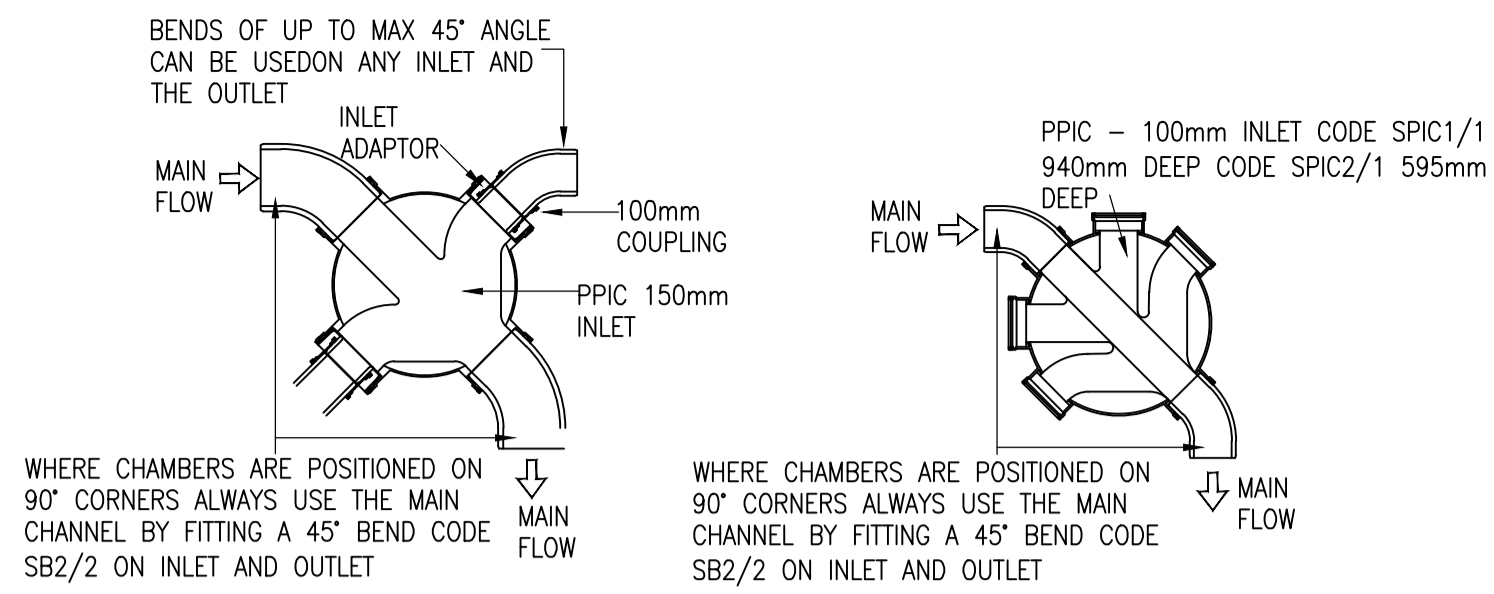


TYPICAL SECTION
(non-man entry)

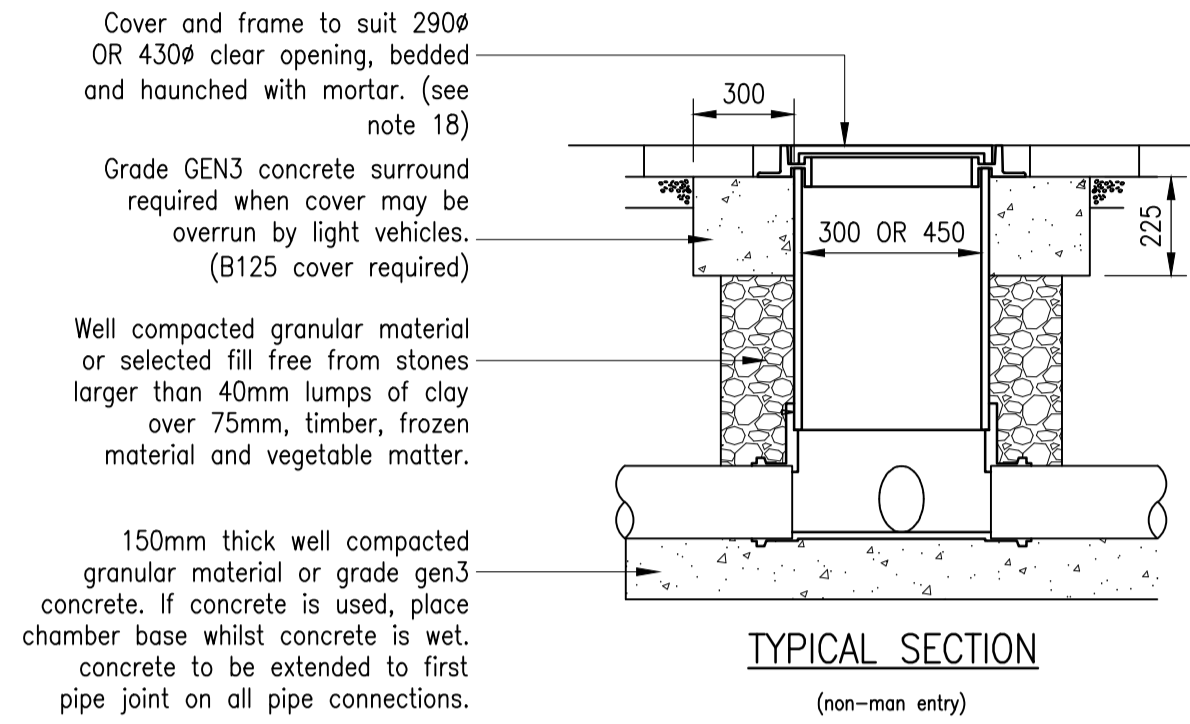
TYPICAL 600 ϕ POLYPROPYLENE INSPECTION CHAMBER DETAIL
DEPTH NO GREATER THAN 3000mm



300 DIA POLYPROPYLENE INSPECTION CHAMBER
(UPTO 0.6 DEEP)

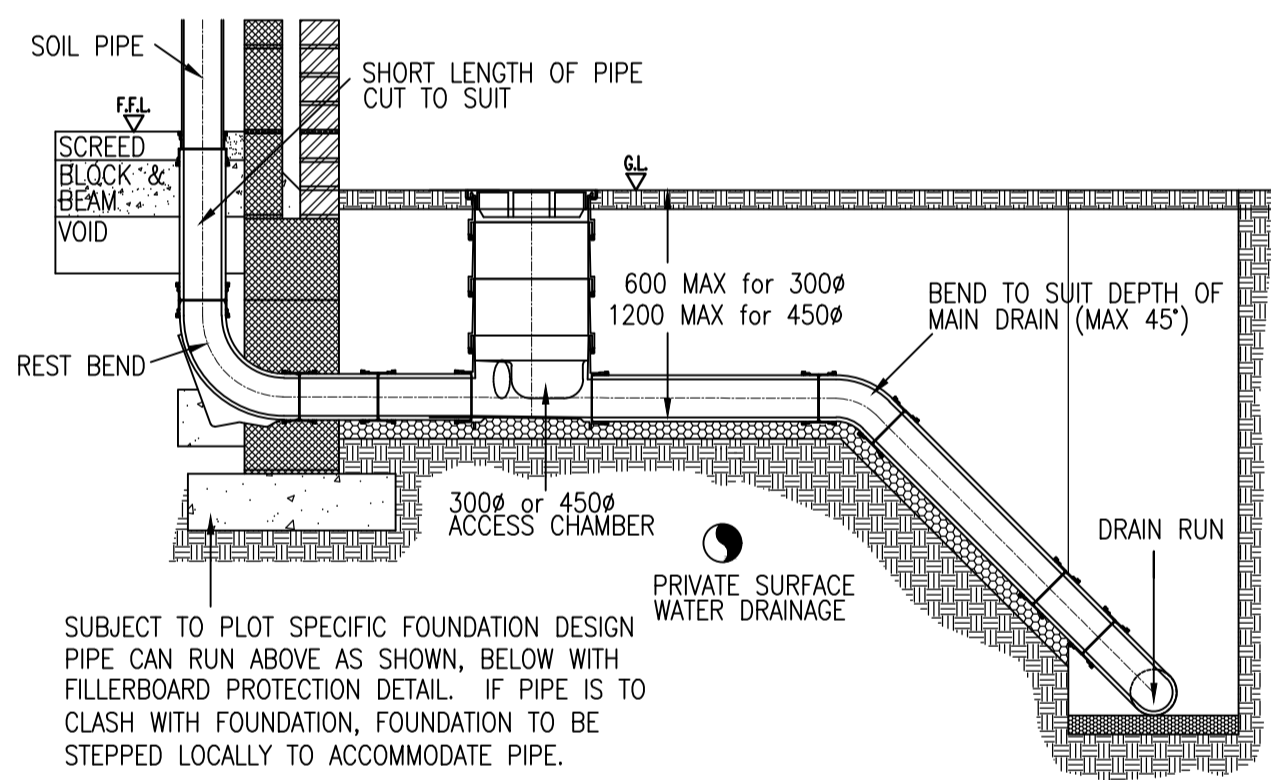


450 DIA POLYPROPYLENE INSPECTION CHAMBER
(UPTO 1.2M DEEP)

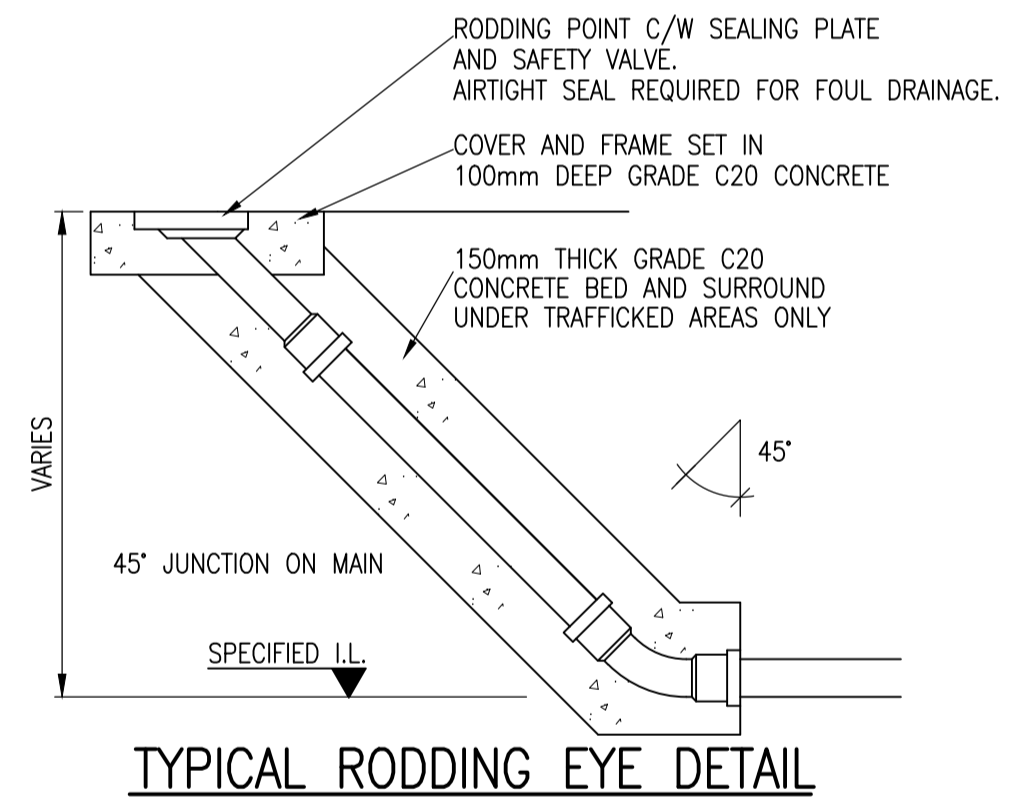


TYPICAL SECTION
(non-man entry)

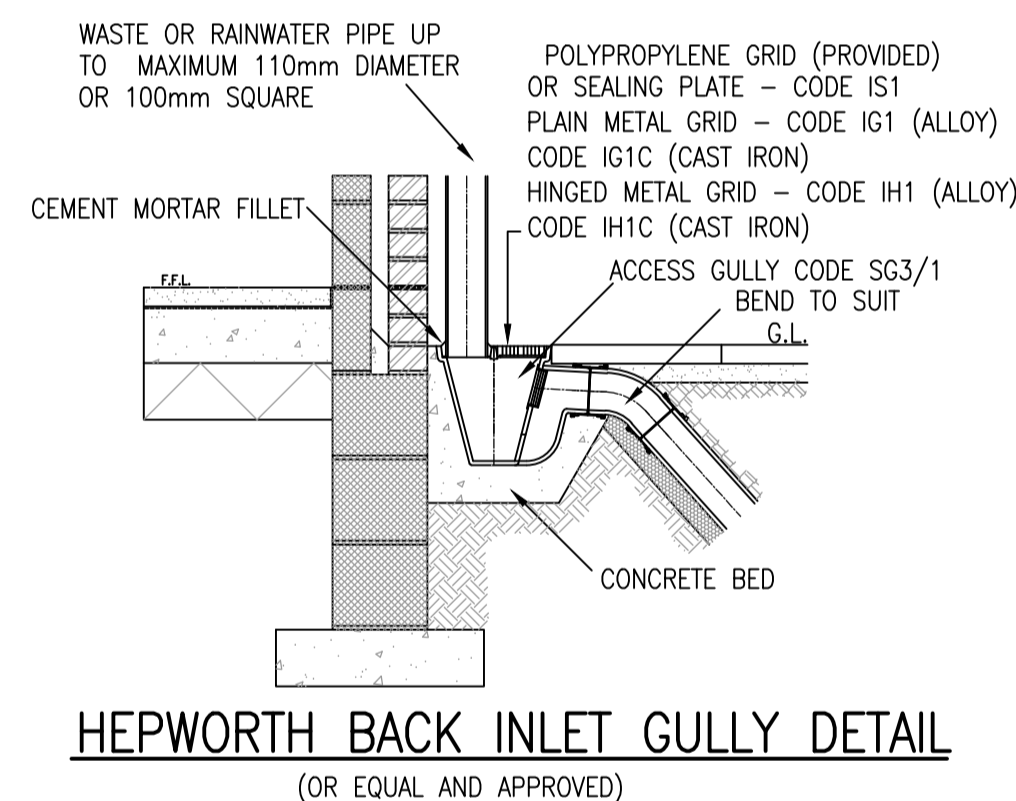
TYPICAL 300 ϕ /450 ϕ POLYPROPYLENE INSPECTION CHAMBER DETAIL
DEPTH NO GREATER THAN 600mm/1200mm RESPECTIVELY



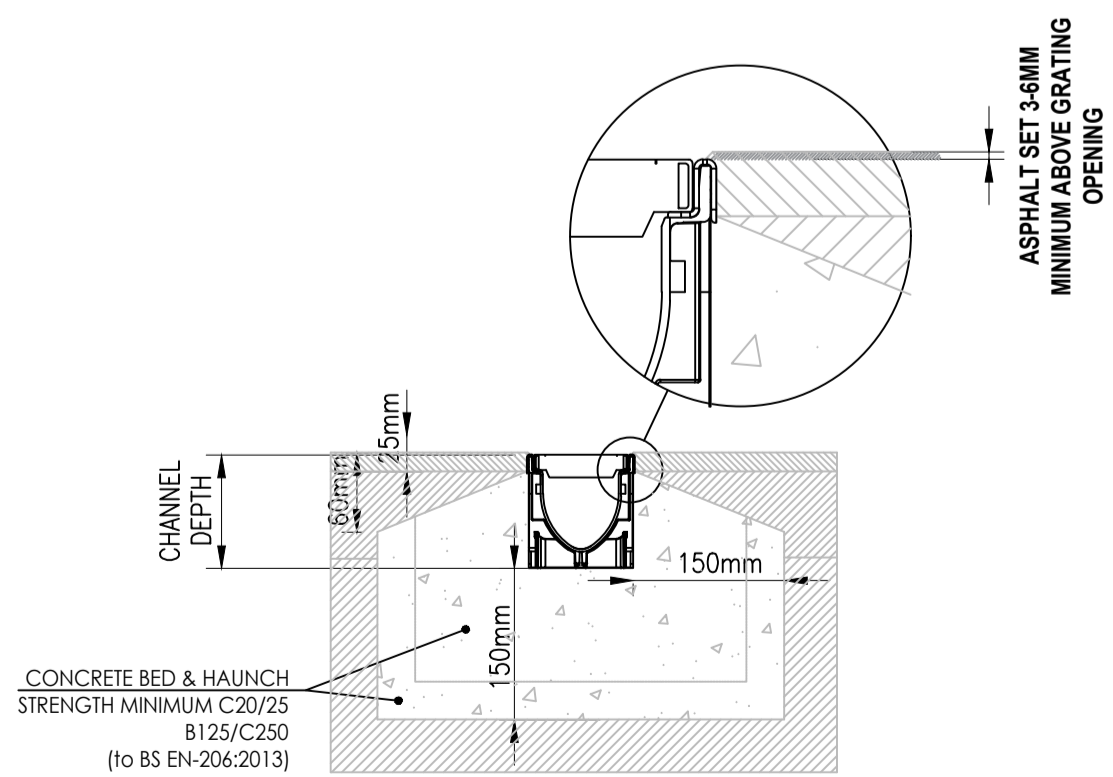
ACCESS CHAMBER CONNECTION TO MAIN DRAIN RUN



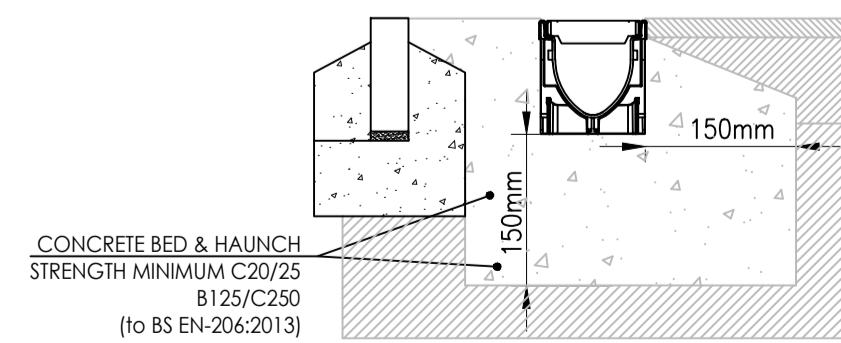
TYPICAL RODDING EYE DETAIL



HEPWORTH BACK INLET GULLY DETAIL
(OR EQUAL AND APPROVED)



1:10 ACO HexDrain Pro Asphalt Pavement
ACO HEXDRAIN PRO(C250)
SCALE 1:10



1:10 ACO HexDrain Pro Asphalt Pavement
ACO HEXDRAIN PRO(C250)
SCALE 1:10

A1 - Do Not Scale

Only PDF / DWG issues of this drawing are controlled. All other formats (eg. DWG AutoCAD FILES) are UN-controlled and are used at your own risk.

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Contractors should refer to the residual risks contained in the CDM Pre Construction Information before carrying out any site operations and should not issue parts of this drawing without including the CDM notes and references. This information will include details of the SIGNIFICANT risks which 3E have considered beyond that which a competent contractor should be aware.

- NOTES**
- ALL ADAPTABLE SEWER WORKS AND MATERIALS TO BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDELINES FOR FOUL AND SURFACE WATER OFFERED FOR ADOPTION, THE RELEVANT BRITISH/EUROPEAN AND NORTHUMBRIAN WATERS STANDARDS/REQUIREMENTS.
 - CONTRACTOR TO ESTABLISH POSITION SIZE AND DEPTH OF ALL EXISTING SEWERS AND SERVICES PRIOR TO COMMENCING ON SITE.
 - THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT, AND TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES.
 - THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS.
 - THE CONTRACTOR SHALL ALLOW FOR KEEPING SEWER TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SUMPS AND DE WATERING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY.
 - PIPES UP TO AND INCLUDING 300mm ϕ TO BE TWIN WALLED PLASTIC PIPES. PIPES 375mm ϕ AND GREATER TO BE CONCRETE CLASS H.
 - THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERBS FACES AND SERVICE MARGINS.
 - SEWERS MUST HAVE 5 METERS CLEARANCE FROM TREES AND HEDGES
 - ALL PIPE WORK TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE.
 - COVER SLABS MUST CARRY THE BS KITE MARK OR WILL BE REJECTED BY DRAINAGE INSPECTOR. WHERE THE CLEAR OPENING OF THE KITE MARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME A LOAD BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 475mmx475mm FOR THE NORTHUMBRIAN WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATIONS TECHNICAL BULLETIN ISSUED AUTUMN 2004 FOR KITE MARKED COVER SLAB OPENING SIZES.
 - SULPHATE RESISTING CEMENT (SR-0C2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
 - GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124 AND BE OF A NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE KITE MARKED. LOAD CLASS D400 FOR ROADS REGULARLY CARRYING FAST MOVING HEAVY VEHICLES. CLASS C250 TO BE USED IN LESSER TRAFFICKED AREAS eg. ESTATE ROADS, CUL-DE-SACS, RESIDENTIAL CAR PARKING AREAS ETC.
 - SEWERS TO BE LAD IN CLASS 'S' BEDDING (50MM 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 0.9M IN NONE VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHALL BE PROVIDED ABOVE THE GRANULAR BED AND SURROUND
 - BACKFILLING AND REINSTATEMENT TO TRENCHES IN PUBLIC HIGHWAYS SHALL BE TYPE 1 GRANULAR MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE ADOPTING AUTHORITY, OR, IN THE ABSENCE OF SUCH, IN ACCORDANCE WITH THE REQUIREMENTS OF 'THE STREET WORKS REGULATIONS 1992' AND RELEVANT PROVISIONS OF H.A.U.C. 'SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS' JUNE 1992, BOTH UNDER SECTION 71 OF THE NEW ROADS AND STREET WORKS ACT 1991.
 - BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENTS OF WATER INDUSTRY SPECIFICATION 4-28-02/TABLE A2)
 - ALL ROAD GULLIES ARE TO BE TRAPPED GULLIES. ALL GULLY LEADS TO BE 150mm DIAMETER.
 - ALL REDUNDANT EXISTING DRAINAGE TO BE GRUBBED UP OR GROUDED, ANY EXISTING LIVE DRAINAGE SHOULD BE REPORTED TO THE ENGINEER AND RECONNECTED.
 - ALL ROAD GULLIES & LEADS TO BE CLEARED OF DEBRIS UPON COMPLETION OF WORKS.
 - THE CONTRACTOR MUST ENSURE THAT ANY OF THE EXISTING DRAINAGE WHICH IS LIVE IS KEPT CLEAR OF DEBRIS AND SHOULD ALLOW FOR JETTING THROUGH THE NEW & EXISTING DRAINAGE UPON COMPLETION.
 - CONTRACTOR TO TAKE MEASURES TO PROTECT HIS OPERATIVES WITH RESPECT TO THE PRESENCE OF GAS IN SEWER TRENCHES AND MANHOLES THROUGH THE USE OF GAS MONITORING EQUIPMENT AND BREATHING APPARATUS AS REQUIRED.
 - CONTRACTOR TO APPLY FOR SEWER PERMITS AND ROAD OPENING PERMITS AS NECESSARY FROM THE APPROPRIATE AUTHORITIES, PRIOR TO COMMENCING WORKS.
 - FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.

25/01/22	ADDITIONAL ACO DETAIL ADDED	MP	T2
14/01/22	TENDER ISSUE	JF	T1
10/11/21	PRELIMINARY ISSUE	JF	P1
Date	Revisions	Drawn	Rev

PRELIMINARY

6 Benton Office Park
Bennett Ave,
Horbury,
Wakefield
t: 01924 240 420
wakefield@3econconsult.com

2 Esh Plaza
Sir Bobby Robson Way
Great Park
Newcastle upon Tyne
NE 13 9BA
newcastle@3econconsult.com

www.3econconsult.com

consulting engineers

Client: **NEW TYNE WEST DEVELOPMENTS**

Project: **SCOTSWOOD PHASE 5**

Title: **DRAINAGE DETAILS SHEET 3**

Scale	Author	Checked	Date
VARIABLES	JF	MP	NOV 21

Job Number	Originator	Zone	Level	Type	Role	Drawing No.	Rev
P19-401-3E-ZZ-XX-DR-C-1503-T2							