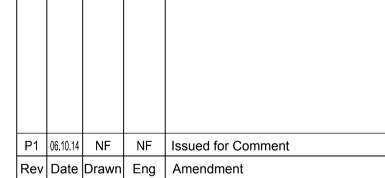


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- Health & Safety
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- accordance with the following: BSEN 752: Drain and sewer systems outside buildings. BSEN 12056: Gravity drainage systems inside buildings. Building Regulations - Part H. Sewers for Adoption - 7th edition BS 8000 Pt.14 - Workmanship on building sites.
- 4. All pipework below slab to be Cast Iron
- All external pipework to be Vitrified Clay
- 5. All pipes to be laid in class 'S' bed, if cover is less than 600mm lay class 'Z' bedding.
- 6. All SVP and RWPs shown are indicative only, to be set out by others.
- 7. All Gullies on access road and service yard indicative only, subject to final road levels.
- 8. All gullies to be trapped and roddable.
- 9. All below ground branch pipes to main runs shall be 100mm diameter unless stated otherwise. Initial below ground 100mm diameter foul and surface water lateral pipes shall be laid no flatter than 1:40 and 1:60 respectively (unless stated otherwise). Where necessary, to avoid clashes, lateral connections may be laid to nominal falls and ramp at 45 degrees to manhole invert or pipe junction.
- 10. All drainage pipes to be cast in concrete when passing under foundations.
- 11. All bends in pipework shall be long radius.
- 12. Pipe connections not to inspection chambers shall be via preformed oblique junction swept in the direction of
- 13. All internal manholes to have double sealed and bolted covers to stop the engress of odours. Covers by Component Development. Series 4200 with recessed cover for infill to suit Architects floor finishes.
- 14. All connections to existing drainage to be confirmed on receipt of condition survey.
- 15. The location, size and depth of all existing drains/sewers and services shall be established by the contractor prior to the commencement of works on site. Any discrepancies from the information indicated on these drawings shall immeditately be brought to the attention of the engineer.



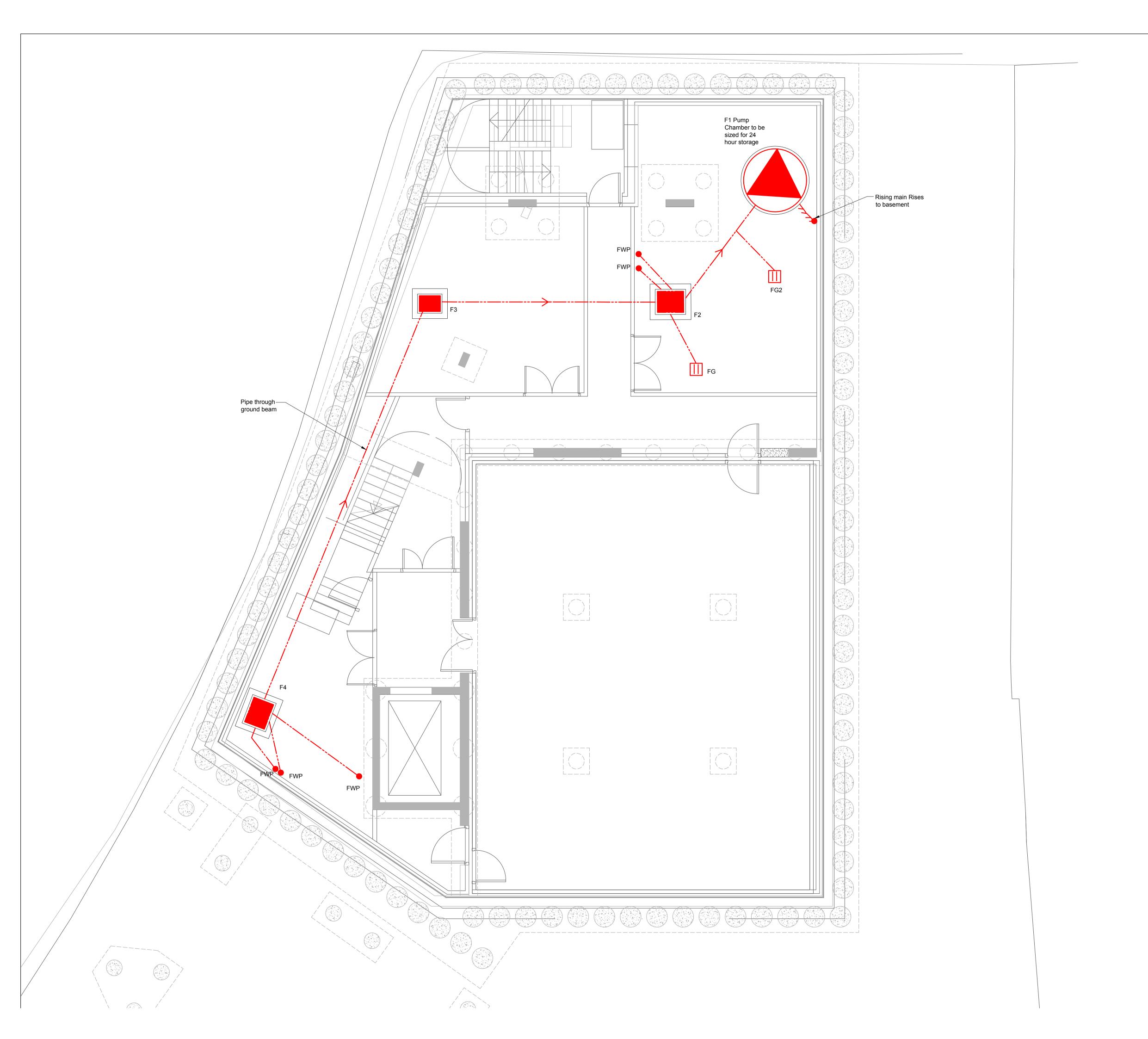
ROYAL CENTRAL SCHOOL OF SPEECH & DRAMA

PHASE 5 BELOW GROUND DRAINAGE LAYOUT GROUND FLOOR

Drawn DLa	Eng NF
Scales 1:100 at A1	1:200 at A3
Drawing No	Rev
22479-600	P1

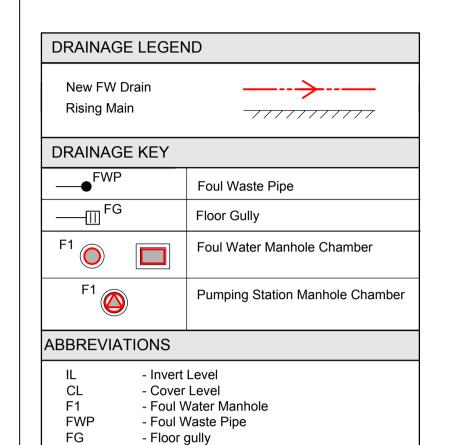
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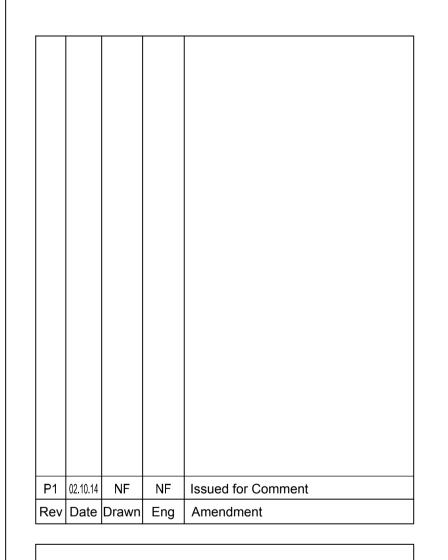


Notes:

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- Health & Safety :
 All specific drawing notes are to be read in conjunction
 with the project "Information Pack" and "Site Rules".
- 4. For general notes refer to Drawing No. 22479-600



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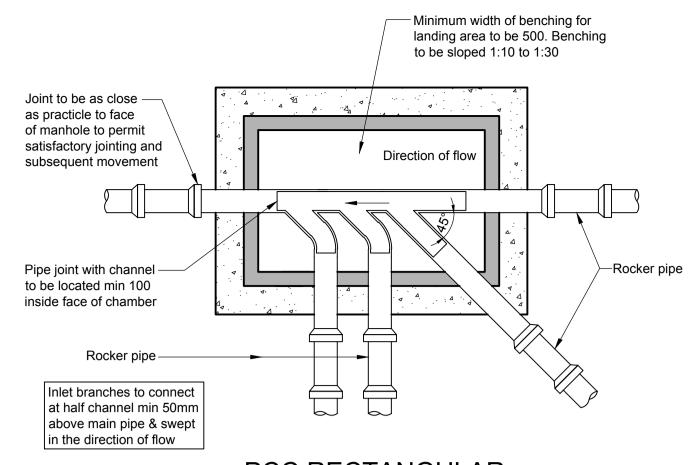
ROYAL CENTRAL SCHOOL OF SPEECH & DRAMA

PHASE 5
BELOW GROUND
DRAINAGE LAYOUT
LOWER BASEMENT LEVEL

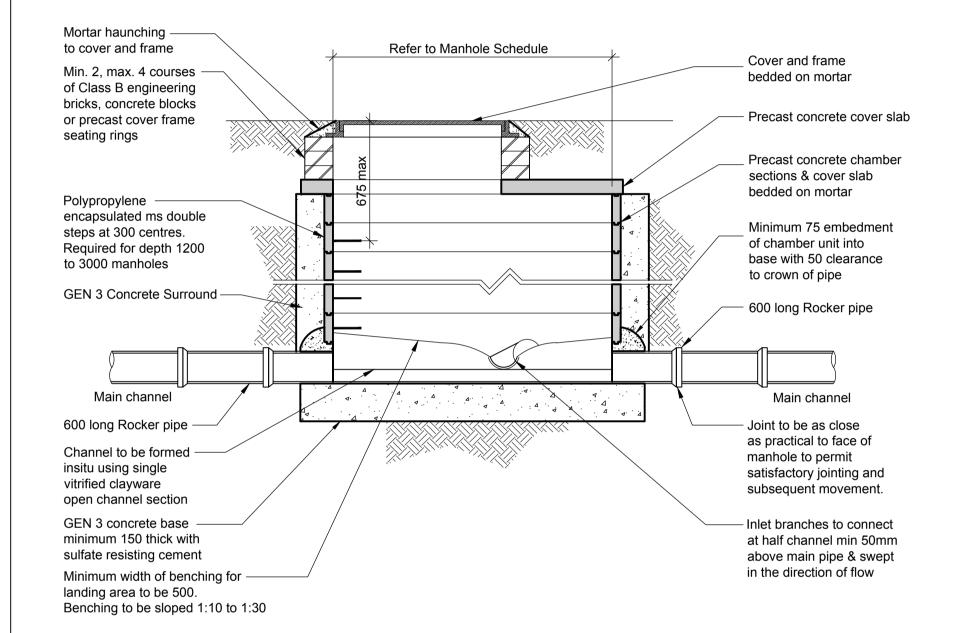
Drawn DLa	Eng NF
Scales 1:50 at A1	1:200 at A3
Drawing No	Rev
22479-601	P1



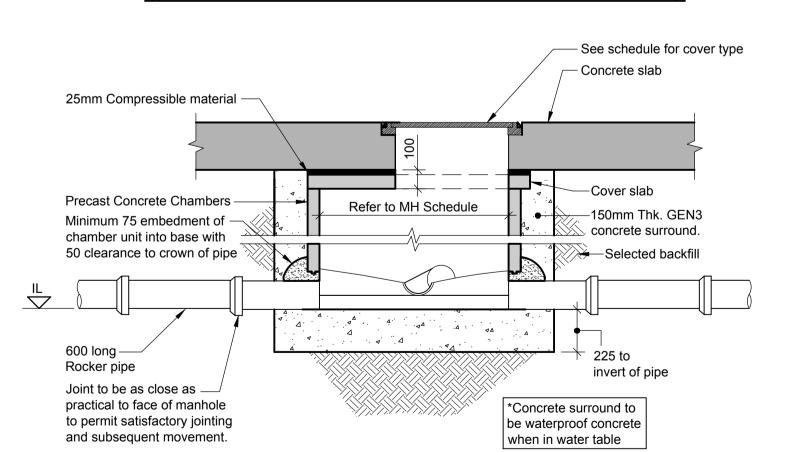
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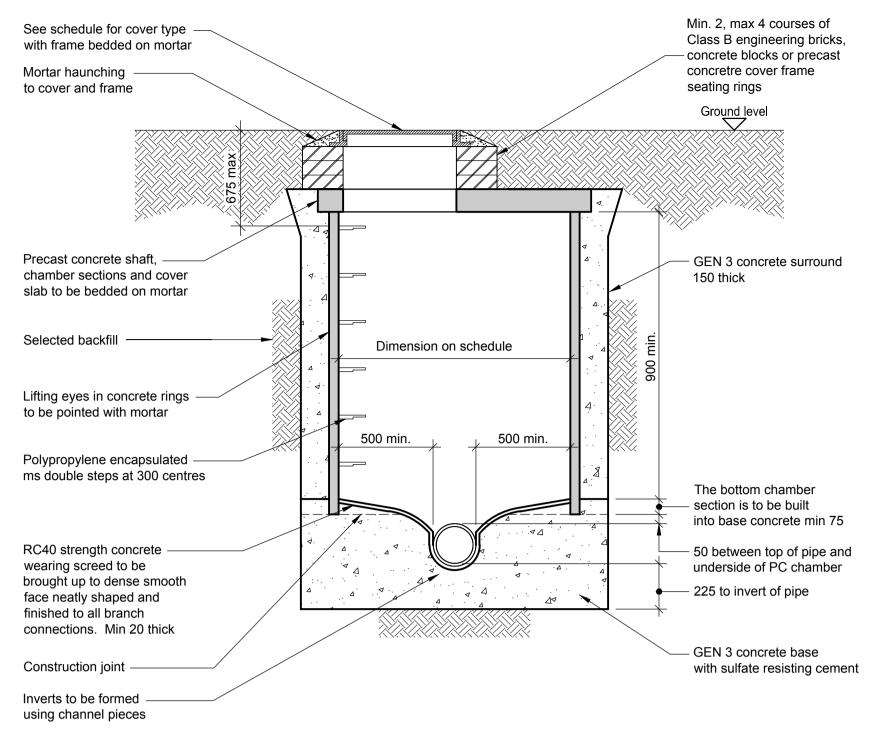
PCC RECTANGULAR **INSPECTION CHAMBER - PLAN**



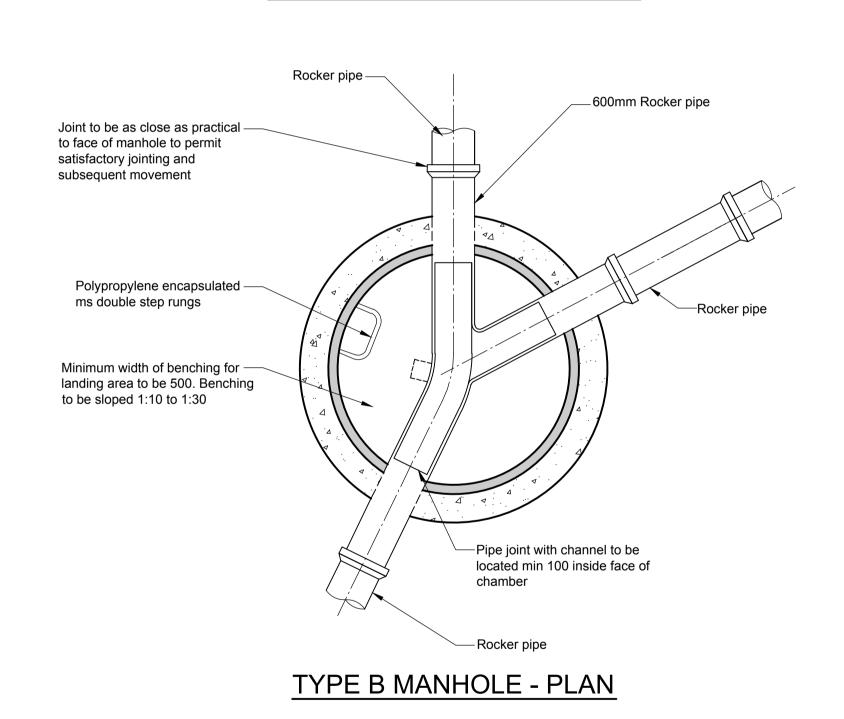
PCC RECTANGULAR INSPECTION CHAMBER - EXTERNAL (Refer to Manhole Schedule for Size & Invert)

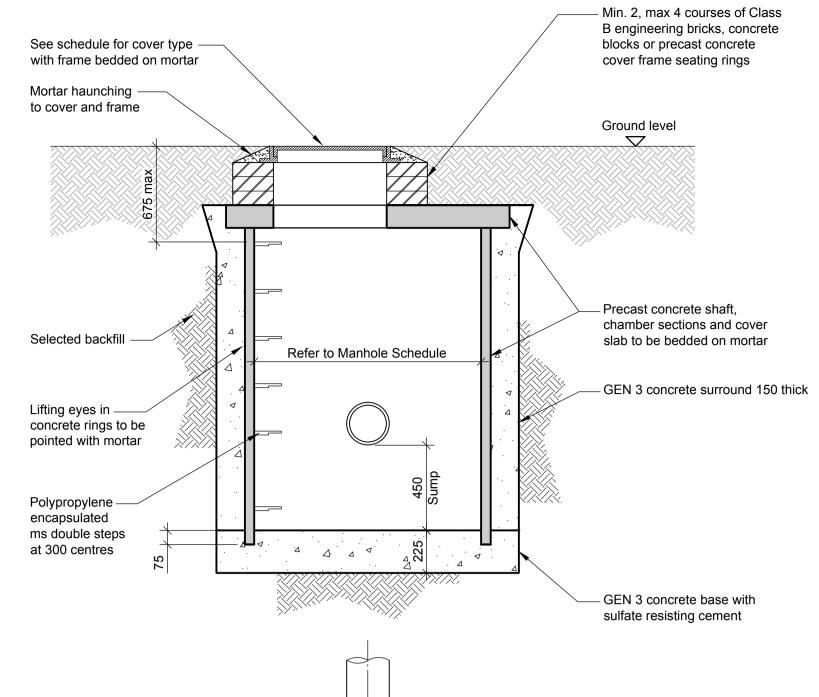


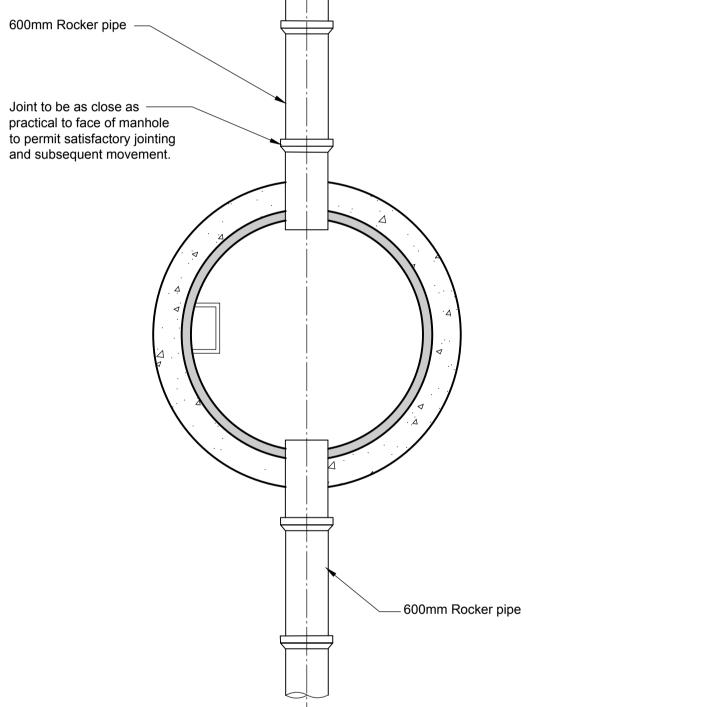
PCC RECTANGULAR INSPECTION CHAMBER - INTERNAL (Refer to Manhole Schedule for Size & Invert)



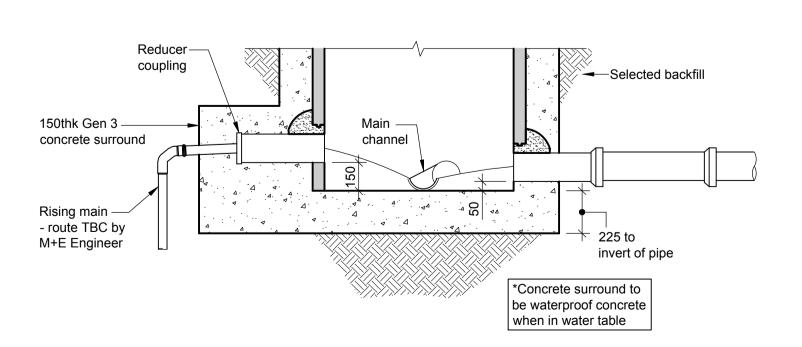
TYPE B MANHOLE - SECTION







PRECAST CONCRETE CATCHPIT DETAIL

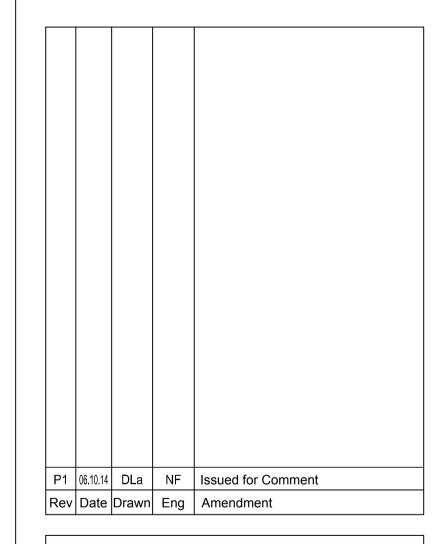


RISING MAIN CONNECTION TO MANHOLE DETAIL

Notes:

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- 3. Health & Safety All specific drawing notes are to be read in conjunction with the project "Information Pack" and "Site Rules".
- 4. For general notes refer to Drawing No. 22479-600.

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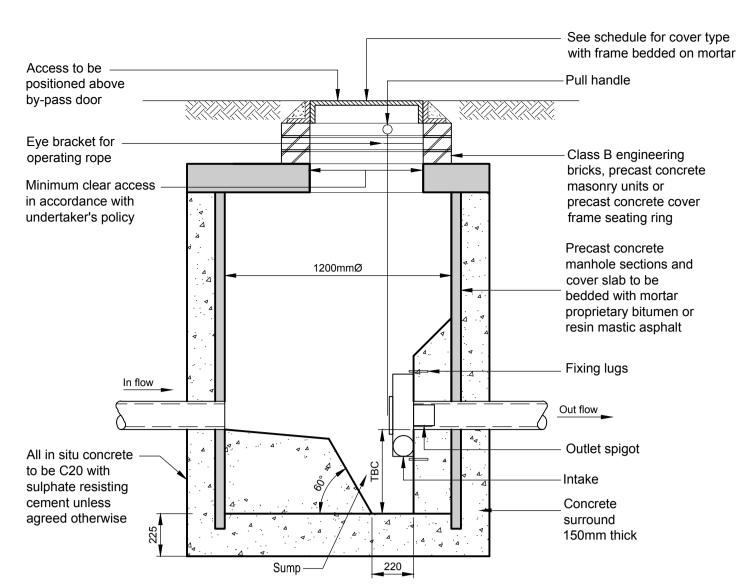


ROYAL CENTRAL SCHOOL OF SPEECH & DRAMA

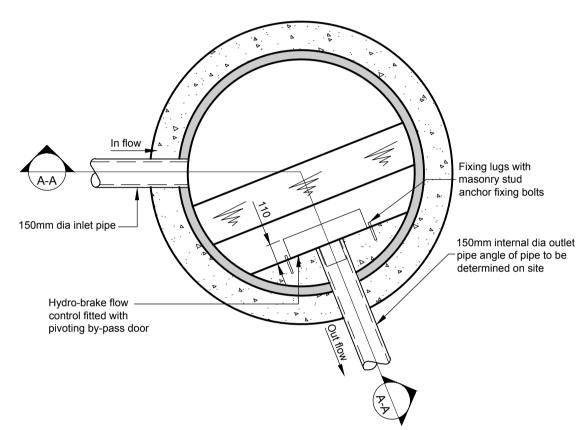
PHASE 5 BELOW GROUND DRAINAGE DETAILS

Drawn DLa	Eng NF
Scales 1:20 at A1	1:40 at A3
Drawing No	Rev
22479-610	P1

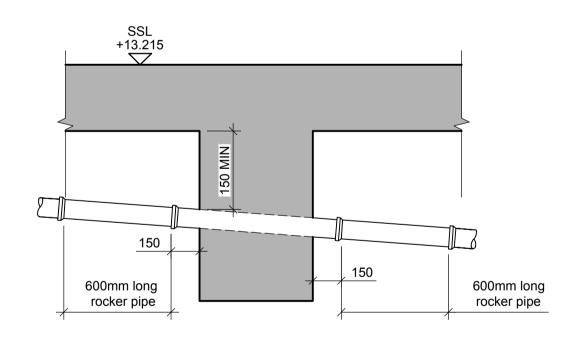
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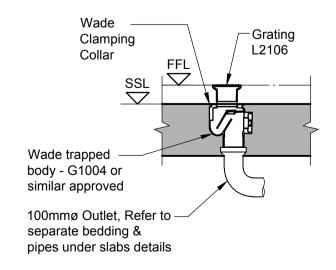
HYDROBRAKE CHAMBER - SECTION A-A



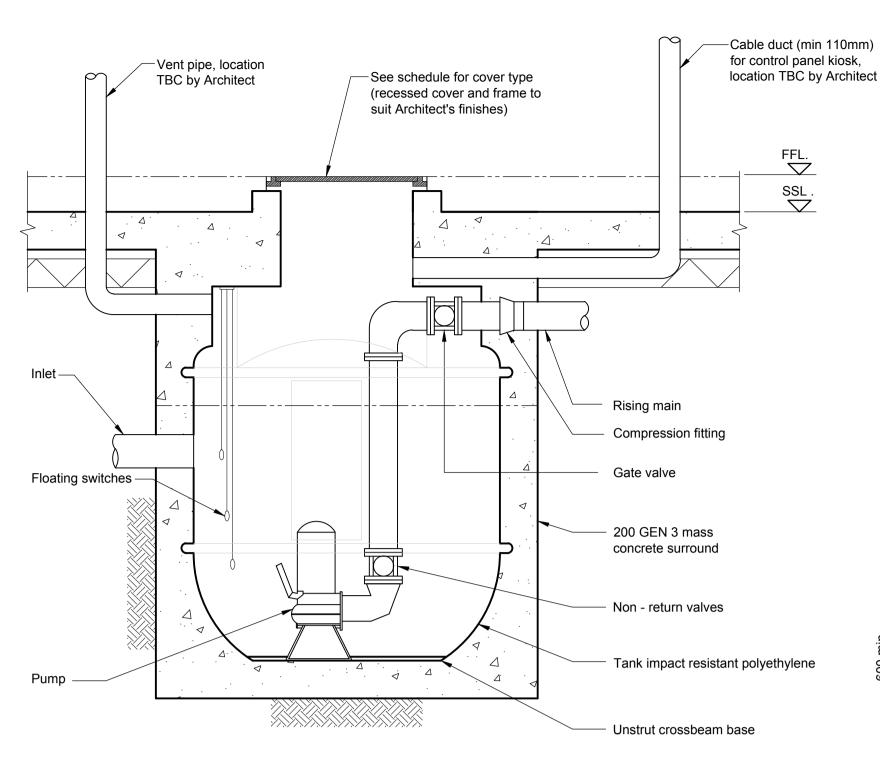
HYDROBRAKE CHAMBER - PLAN VIEW



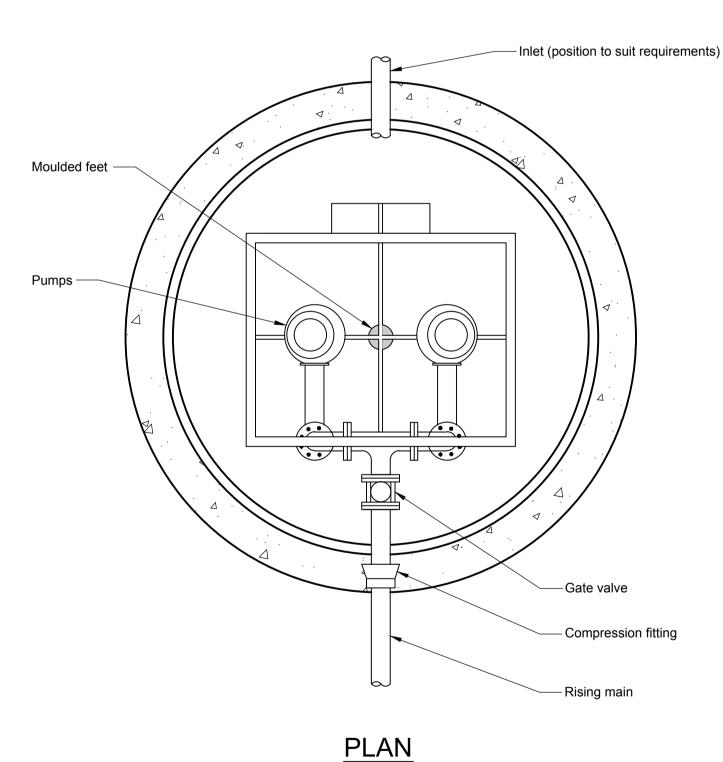
DRAIN CAST INTO GROUND BEAM



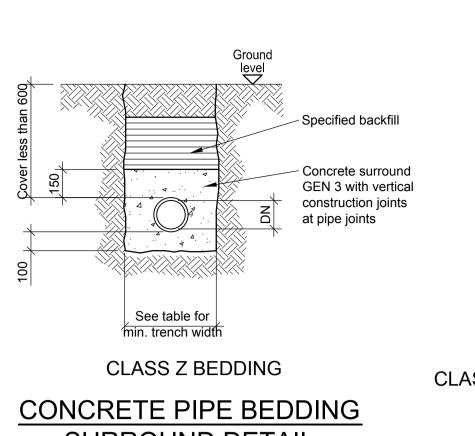
FLOOR GULLY DETAIL



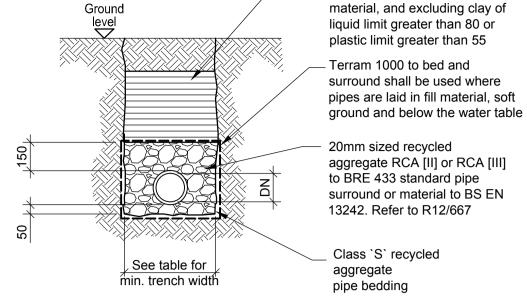
SECTION



PRE-PACKAGED PUMP CHAMBER FOR INTERNAL USE



SURROUND DETAIL



Notes:

3. Health & Safety

Selected fill, locally excavated or

imported, shall consist of uniform

readily compactible material, free

from vegetable matter, building

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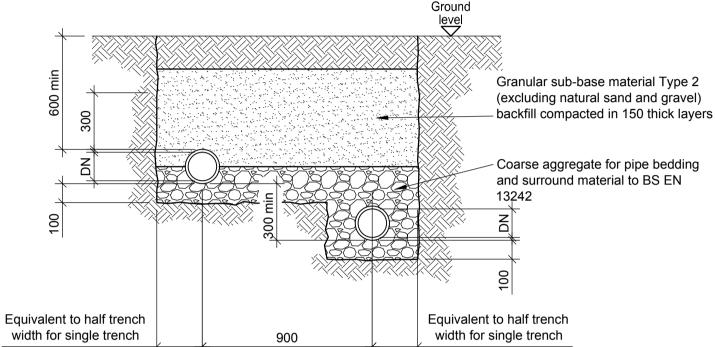
INFORMATION ONLY

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drawings and specifications.

CLASS S RECYCLED AGGREGATE BEDDING

PIPE BEDDING & BACKFILL UNDER VERGE DETAIL [For Vitrified Pipes]



UNEQUAL PIPELINES IN STEPPED TRENCH DETAIL

TARIF 1

Downpipe

200x200x75 deep sump for

stack (to be filled when above

ground pipework connected)

Class Y bedding

(concrete encasement)

where top of pipe is within

300 of underside of slab

IADLE I				
	Minimum trench width (OD + x)			
	Supported trench	Unsupported tren	nch	
DN	Hench	# > 60°	# < 60°	
less 225	OD + 400	OD + 400	OD + 400	
225 to 350	OD + 500	OD + 500	OD + 400	
350 to 700	OD + 700	OD + 700	OD + 400	
700 to 1200	OD + 850	OD + 850		
greater 1200	OD + 1000	OD + 1000	OD + 400	

In the values OD + x, x/2 equals the minimum working space between the pipe and the trench wall or support, where: OD is external diameter. # is angle of unsupported trench side measured to the horizontal.

— Double socket

adaptor ground pipe

for temporary case

— Pipe cut 10mm below SSL

and fitted with protective cap

90° bend or 2No, 45°

concrete where cover is

bends encased in

less than 300

Underside

of slab

MINIMUM TRENCH WIDTH IN RELATION TO NORMAL SIZE DN

Transition coupling to pipe manufacturer details Saint gobain ensign pipework ductile cast iron Saint gobain timesaver ductile cast iron pipe cast in Goomm Max length rocker pipe Puddle flange
PIPE PENETRATING

PIPE PENETRATING **BASEMENT WALL DETAIL**

TABLE 2

Trench depth	Minimum trench width
less 1000	No min. width required
1000 to 1750	800
1750 to 4000	900
greater 4000	1000

The minimum trench width shall be the greater of the values taken from tables 1 & 2.

MINIMUM TRENCH WIDTH IN RELATION TO TRENCH DEPTH

ROYAL CENTRAL SCHOOL OF SPEECH & DRAMA

P1 06.10.14 NF NF Issued for Comment

Rev Date Drawn Eng Amendment

PHASE 5 BELOW GROUND DRAINAGE DETAILS

Drawn DLa	Eng NF
Scales 1:20 at A1	1:40 at A3
Drawing No	Rev
22479-611	P1

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