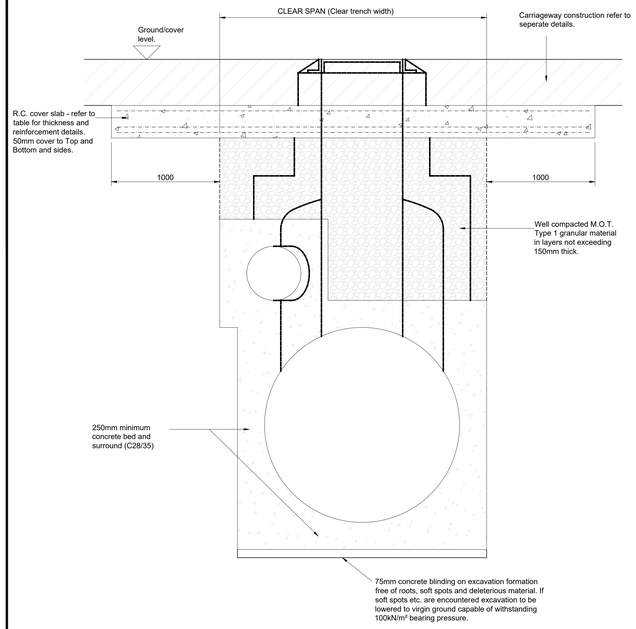
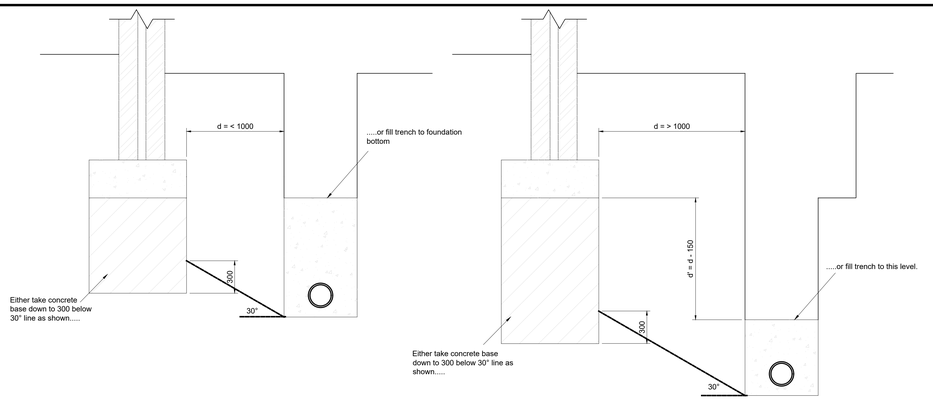


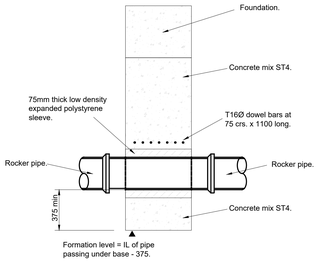
DETAILS OF R.C. COVER SLAB TO OIL SEPARATORS AND TANKS		
Slab Span (mm)	Slab Depth (mm)	Reinforcement requirement (50mm cover top, bottom and sides). 400mm min. laps.
Up to 1500	200	1 no. layer of A393 Mesh Top 1 no. layer of A393 Mesh Bottom
1501-2000	225	1 no. layer of A393 Mesh Top 2 no. layers of A393 Mesh Bottom
2001-2500	250	1 no. layer of A393 Mesh Top 1 no. layer of B785 Mesh Bottom *
2501-3000	275	1 no. layer of A393 Mesh Top 1 no. layer of B1131 Mesh Bottom *
3001-3500	300	1 no. layer of A393 Mesh Top 1 no. layer of B1131 Mesh Bottom *
3501-4000	325	1 no. layer of A393 Mesh Top 2 no. layers of B785 Mesh Bottom *
> 4000	--	Seek further advice from Engineer

Note: * For all `B' type mesh panels, listed above, ensure main bars are in layer B1 and laid in the direction of the span.

DETAILS OF CONCRETE SURROUND AND R.C. COVER SLAB TO OIL SEPARATORS AND TANKS IN SERVICE YARD AND CAR PARK AREAS



CONCRETING OF DRAINS LAID NEAR TO FOUNDATIONS



DRAIN PASSING UNDER FOUNDATION

General Notes

1. Ductile iron manhole covers and frames to be in accordance with BS EN 124 and to the following load class;
class E600 - service yards
class D400 - carriageways and service roads
class C250 - car parks and car park access roads
class B125 - pavements and landscaped areas
class A15 - internal areas (refer also to architect's specification)

2. Heavy duty concrete cover slabs to be used with class C250, D400 & E600 manhole covers.
Light duty concrete cover slabs to be used with class A15 & B125 manhole covers.

3. Covers laid to falls of finished surfaces.

4. Inlet and outlet pipes to be laid soffit to soffit unless stated otherwise.

5. Precast concrete manholes to be in accordance with BS EN 1917 and BS 5911.

6. Ductile iron gully gratings and frames to be class D400 to BS EN 124, non-rock design with a captive end hinge set on the traffic side of the gully. Grating slots are to be perpendicular to the direction of traffic.

7. All drainage details and specifications to be in accordance with Water UK/Water Research Centre publication `Sewers for Adoption' latest edition.

8. All concrete products and in-situ concrete for use in adoptable sewerage shall utilize sulphate resisting cement in accordance with `Sewers for Adoption' latest edition.

9. The standard concrete specified on this drawing are suitable only for non-aggressive soils. Where sulphates or other aggressive chemicals are present in the ground water, the ground or in any adjacent material then sulphate resisting cement or the corresponding extra quantity of ordinary portland cement is to be used in the concrete.
All in accordance with BS EN 206-1 and BS 8500-1 & 2.

10. Chalk and limestone are not to be used as bedding or backfilling material in soils with a pH value less than 7.

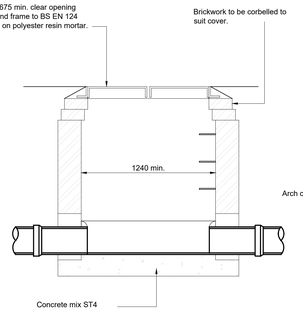
11. All mortar to be class 1 (1:1/4:3) for brick manholes and benching.

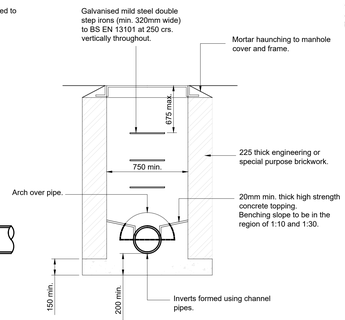
12. All brickwork in connection with drainage is to be engineering brick Class B to BS 3921.

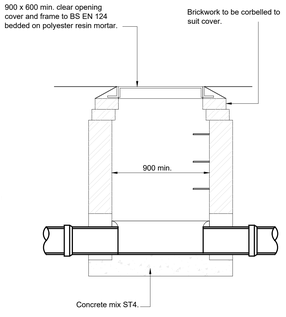
13. Manhole and gully frames to be bedded on polyester resin mortar.

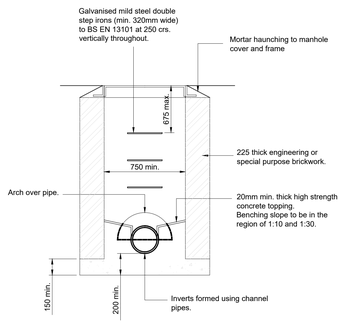
14. All ductile iron products shall display the manufacturer's name and achieve kitemark accreditation.

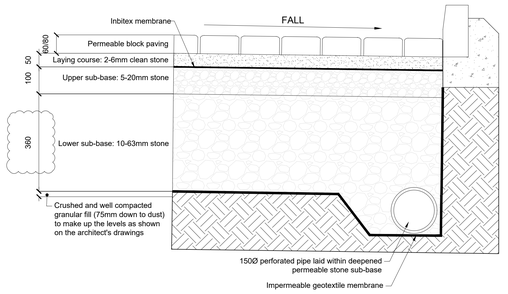
15. All dimensions in millimeters unless stated otherwise.



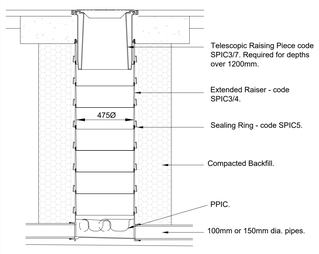


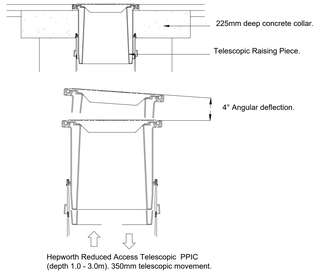




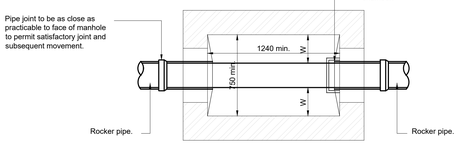


PERMEABLE PAVNG CAR PARK





WAVIN 475Ø PPIC UP TO 3m DEEP
(For use in landscaped or footpath areas only)

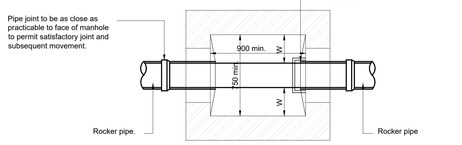


Pipe Dia.	Rocker Pipe Length
150 - 450	500 - 750
525 - 750	750 - 1000
> 750	Seek guidance

Sizing of manholes (width)	
Branch Dia.	Benching Width (W)
No branch	150
100	300
150	350
225	400
300	500

Note:
Toeholes to be provided in benching of sewer greater than 450 Ø for access to invert.

TYPICAL MANHOLE DETAIL TYPE C
DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 1m TO 1.45m

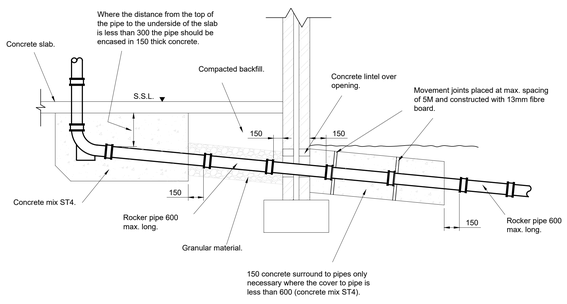


Pipe Dia.	Rocker Pipe Length
150 - 450	500 - 750
525 - 750	750 - 1000
> 750	Seek guidance

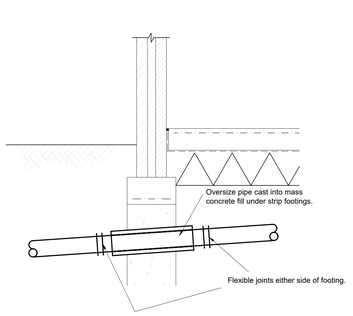
Sizing of manholes (width)	
Branch Dia.	Benching Width (W)
No branch	150
100	300
150	350
225	400
300	500

Note:
Toeholes to be provided in benching of sewer greater than 450 Ø for access to invert.

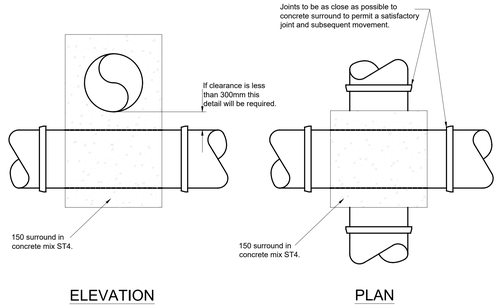
TYPICAL MANHOLE DETAIL TYPE D
DEPTH FROM GROUND LEVEL TO SOFFIT LESS THAN 1m



CONCRETEING OF DRAINS UNDER SLAB AND LANDSCAPED AREAS

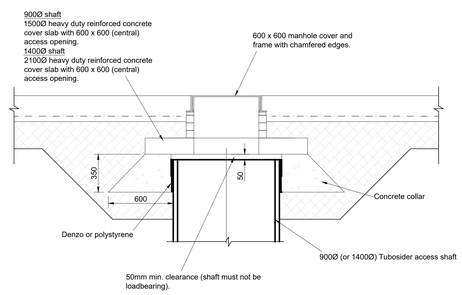


TYPICAL SECTION AT DRAIN/FOOTING JUNCTION



ELEVATION PLAN

PIPE CROSSING DETAIL (NOT TO SCALE)



TYPICAL DETAIL AT TUBOSIDER ACCESS SHAFT

Rev.	Tech.	Date	Description
T2	PG	02.08.22	LOWER SUB BASE DEPTH REVISED TO PERMEABLE PAVING CAR PARK.
T1	PG	27.05.22	TENDER ISSUE.
T1	JJ	13.05.22	TENDER ISSUE.

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Client: glenbeigh

Project Title: **5 COMMERCE WAY, LANCING.**

Drawing Title: **TYPICAL DRAINAGE CONSTRUCTION DETAILS SHT 2 OF 3**

Purpose of Issue: Information ○ Preliminary ○ Approval ○ Tender ● Construction ○ Record Copy ○

First Issue Date	Drawn By	Scale	Checked
MARCH 22	JJ	NTS	NDH

Drawing Number: **21-008D / 302** Rev. **T2**