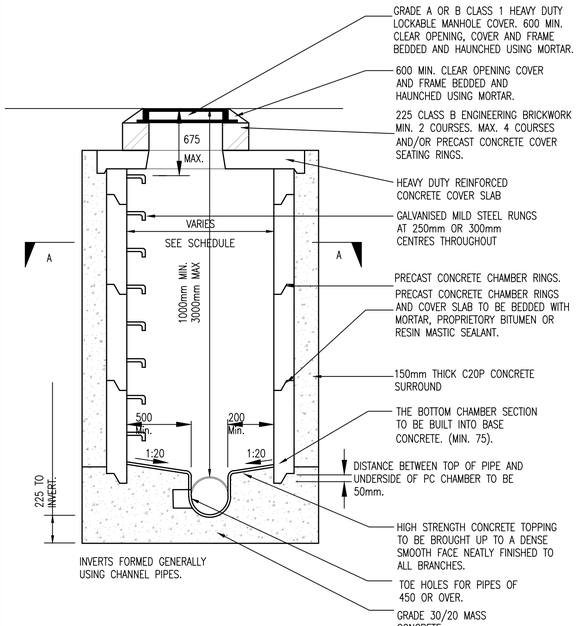
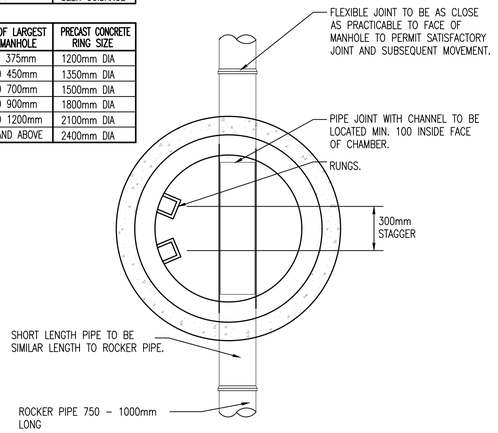


PRECAST CONCRETE RING MANHOLE DETAIL TYPE J (GDSDS)

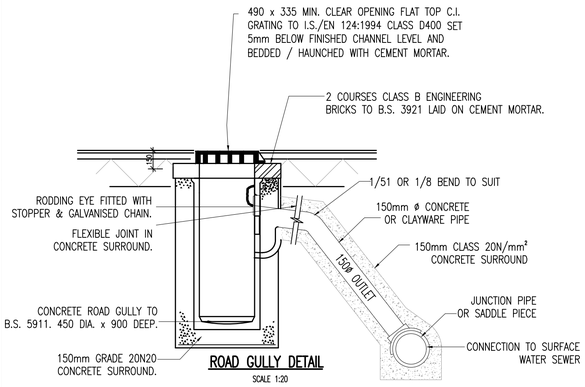
SCALE 1:25

PIPE DIAMETER	ROCKER PIPE LENGTH
150 – 450	0.5 – 0.75
451 – 750	0.75 – 1.0
750 >	SEEK GUIDANCE

DIAMETER OF LARGEST PIPE IN MANHOLE	PRECAST CONCRETE RING SIZE
LESS THAN 375mm	1200mm DIA
375mm TO 450mm	1350mm DIA
500mm TO 700mm	1500mm DIA
750mm TO 900mm	1800mm DIA
950mm TO 1200mm	2100mm DIA
1250mm AND ABOVE	2400mm DIA

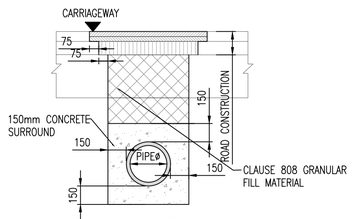


SECTION A–A



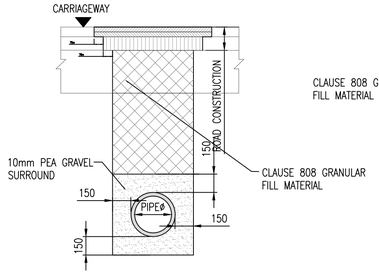
ROAD GULLY DETAIL

SCALE 1:20



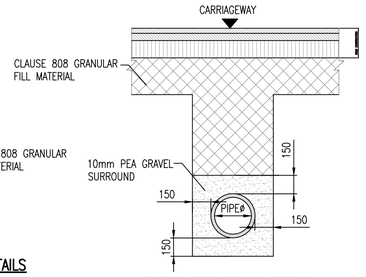
TYPICAL PIPE BEDDING AND REINSTATEMENT DETAILS TRAFFICKED AREAS (ROADWAY) LESS THAN 1200mm TO PIPE CROWN

SCALE 1:25



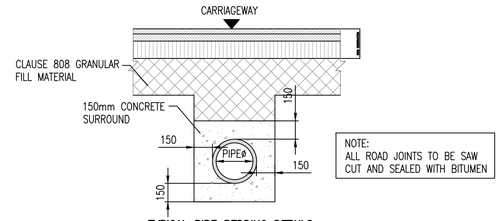
TYPICAL PIPE BEDDING AND REINSTATEMENT DETAILS TRAFFICKED AREAS (ROADWAY) GREATER THAN 1200mm TO PIPE CROWN

SCALE 1:25



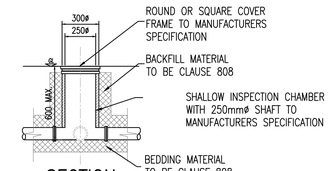
TYPICAL PIPE BEDDING DETAILS TRAFFICKED AREAS GREATER THAN 1200mm TO PIPE CROWN

SCALE 1:25

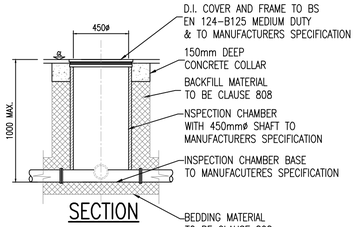


TYPICAL PIPE BEDDING DETAILS TRAFFICKED AREAS LESS THAN 1200mm TO PIPE CROWN

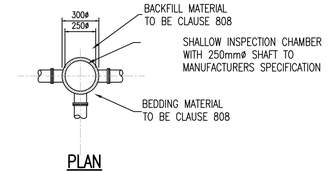
SCALE 1:25



SECTION



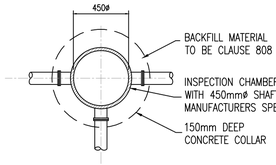
SECTION



PLAN

CIRCULAR INSPECTION CHAMBER WHERE INVERT IS 0.6m OR LESS BUILDING REGULATIONS TGD SECTION H TABLE 9

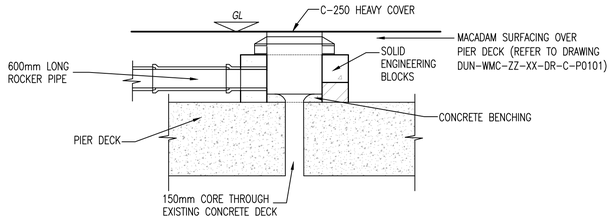
SCALE 1:25



PLAN

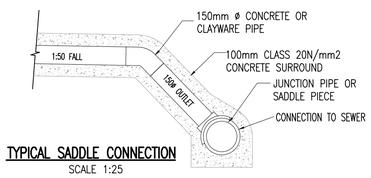
CIRCULAR INSPECTION CHAMBER WHERE INVERT IS 1m OR LESS BUILDING REGULATIONS TGD SECTION H TABLE 9

SCALE 1:25



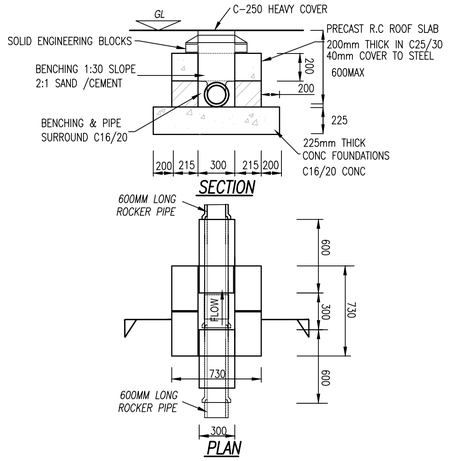
INSPECTION CHAMBER LOCATED ON ST. MICHAELS PIER

SCALE 1:25



TYPICAL SADDLE CONNECTION

SCALE 1:25

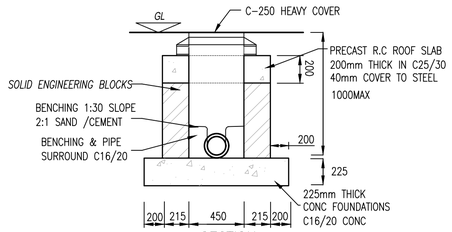


SECTION

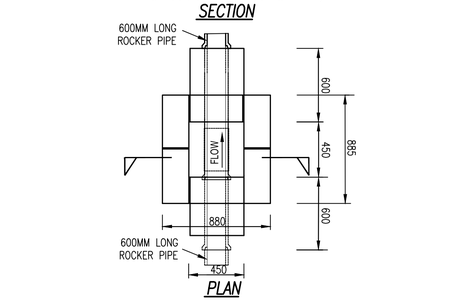
PLAN

INSPECTION CHAMBER WHERE INVERT IS 0.6m OR LESS BUILDING REGULATIONS TGD SECTION H TABLE 9

SCALE 1:25



SECTION



PLAN

INSPECTION CHAMBER WHERE INVERT IS 1m OR LESS BUILDING REGULATIONS TGD SECTION H TABLE 9

SCALE 1:25

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING ASSOCIATED DRAWINGS:
   a. DUN-WMC-ZZ-XX-DR-C-P0200 - PROPOSED DRAINAGE LAYOUT
2. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
4. TYPE A GRANULAR FILL SHALL CONSIST OF WASHED PEA GRAVEL. ALL MATERIAL SHALL PASS A 19mm B.S. SIEVE TEST AND SHALL BE RETAINED BY A 4.75mm B.S. SIEVE TEST.
5. SELECTED FILL SHALL BE FREE FROM STONES GREATER THAN 25mm IN SIZE, BUILDERS RUBBLE VEGETABLE MATTER AND LUMPS OF CLAY GREATER THAN 75mm IN SIZE AND SHALL BE COMPACTED IN 150mm LAYERS.
6. IN OPEN SPACES BACKFILL SHALL CONSIST OF SUITABLE SELECTED EXCAVATED MATERIAL. UNDER PAVED AREAS BACKFILL SHALL CONSIST OF SUITABLE APPROVED GRANULAR FILL. GENERAL BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK.
7. CONCRETE BED AND SURROUND SHALL BE USED ON ALL PIPES WHERE COVER TO THE SOFFIT OF THE PIPE IS LESS THAN 1.2m IN ROADS, FOOTPATHS AND GRASS MARGINS AND 0.9m IN OPEN SPACES AND FIELDS.
8. ALL CONCRETE FOR PIPE BEDDING, HAUNCHING AND SURROUNDS SHALL BE GRADE 20N/20
9. ALL MANHOLES SHALL BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER.
10. FORMWORK TO REINFORCED CONCRETE AND MASS CONCRETE SHALL BE CLASS F2.
11. CLASS U2 FINISH TO THE TOP OF SLABS. REINFORCEMENT TO SLABS TO ENGINEERS DETAILS.
12. ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAIN, ETC. SHALL BE HOT DIPPED GALVANISED TO BS729.
13. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL COUNTY COUNCIL.

TABLE 9 Minimum dimensions for access fitting and chambers

Type	Depth to (m)	Internal Sizes		Cover Sizes	
		length x width (mm x mm)	Circular (mm)	length x width (mm x mm)	Circular (mm)
Rodding eye					
Access Fitting					
small	0.6 or less	150 x 100	150	150 x 100	150
large		300 x 100	-	300 x 100	-
Inspection Chamber	0.6 or less	300 x 300	190*	300 x 300	190*
	1.0 or less	450 x 450	450	450 x 450	450**
Manhole	1.5 or less	1200 x 750	1000	600 x 600	600
	over 1.5	1200 x 750	1200	600 x 600	600
	over 2.7	1200 x 840	1200	600 x 600	600
Shaft	over 2.7	900 x 840	900	600 x 600	600

Note:
* For clayware or plastics may be reduced to 430mm in order to provide support for cover and frame
** Drains up to 150mm

NORMAL INTERNAL DIAMETER	MINIMUM TRENCH WIDTH mm	MAXIMUM TRENCH WIDTH mm
100	450	650
150	500	700
225	600	800
300	700	900
375	950	1150
450	1050	1250
525	1150	1350
600	1250	1450
675	1350	1550
750	1400	1600
825	1500	1700
900	1950	2150
1050	2100	2300
1200	2300	2500
ABOVE 1200	PIPE DIAMETER PLUS 800mm	OUTSIDE DIAMETER PLUS 1000mm

MAXIMUM AND MINIMUM TRENCH WIDTHS

REVISION:	DATE:	COMMENTS:	DRWN:	CHKD:	APRV:
R00	30/09/2024	FINAL ISSUE	PW	EC	PO

REVISION CONTROL:

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MAP NOTES/ DATA SOURCES:
LICENCE NUMBER © NATIONAL MAPPING DIVISION OF TAILTE EIREANN # 50351976

DRAWING STATUS:
PLANNING APPLICATION

CLIENT/ EMPLOYER:
KISH OFFSHORE WIND LTD/ BRAY OFFSHORE WIND LTD.

PROJECT TITLE:
DUBLIN ARRAY O & M BUILDING, ST. MICHAEL'S PIER
DUN LAOGHAIRE HARBOUR, CO. DUBLIN

DRAWING TITLE:
SURFACE WATER DRAIANGE DETAILS

SHEET NO:
1 OF 1

DRAWING NUMBER:
DUN-WMC-ZZ-XX-DR-C-P0202

REVISION NO:
R00

SCALE BAR:
0 0.25 0.5 0.75 1
SCALE BAR METRES 1:25

SCALE: 1:25
PLOT SIZE: A1
DATUM: IRENET95
VERTICAL REF:
PRJ: IRENET95 IRISH TRANSVERSE MERCATOR

waterman moylan

Dublin Array
Generation for generations