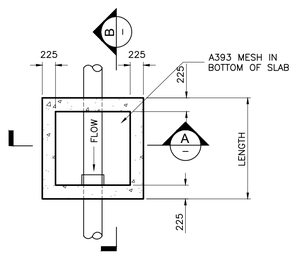
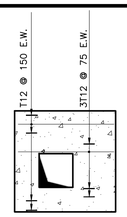
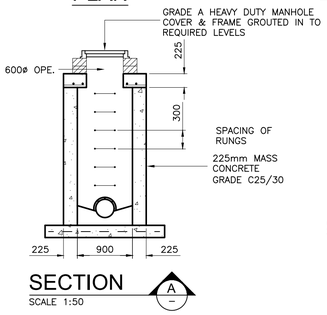


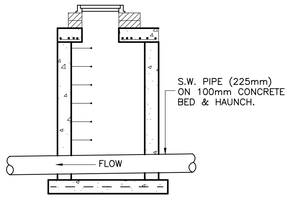
PLAN



PLAN OF ROOF SLAB



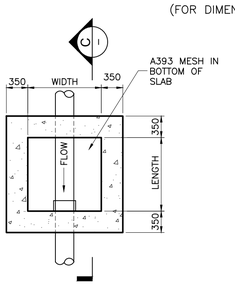
SECTION
SCALE 1:50



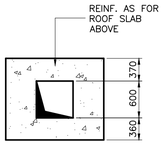
SECTION
SCALE 1:50

DETAILS OF STANDARD MANHOLE UP TO 3000 DEEP

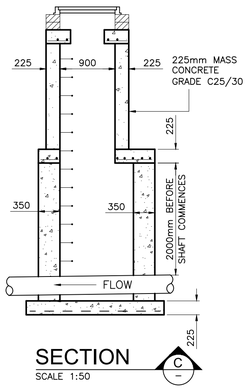
(FOR DIMENSIONS ETC. SEE TABLE 1)



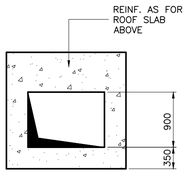
PLAN



PLAN OF ROOF SLAB



SECTION
SCALE 1:50



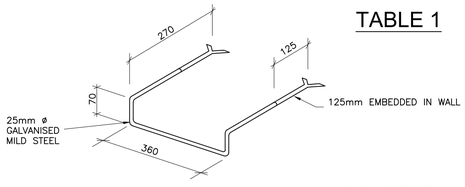
PLAN OF CHAMBER SLAB

DETAILS OF STANDARD MANHOLE 3000-6000 DEEP

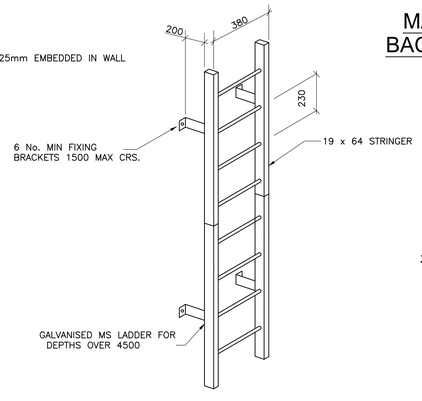
(FOR DIMENSIONS ETC. SEE TABLE 1)

DEPTH	DIAMETER OF PIPE	ANGLE	MINIMUM DIMENSIONS		P.C. CONCRETE CIRCULAR SHAFT INTERNAL MH ø
			LENGTH	WIDTH	
LESS THAN 1200	100	0–90°	1200	750	1050
	150	0–90°	1200	750	1050
	225	0–30°	1200	750	1050
		30°–90°	1200	750	1050
	300	0–30°	1200	750	1050
		30°–90°	1200	900	1050
	375	0–90°	1200	900	1050
	450	0	1200	1050	1050
		0–90°	1200	1200	1050
	525	0	1200	1200	1050
		0–90°	1200	1200	1200
	600	0	1200	1200	1200
		0–45°	1200	1350	1200
		45°–90°	1200	1350	1350
	750	0–45°	1200	1350	1350
		45°–90°	1350	1350	1350
	900	0–45°	1350	1500	1500
		45°–90°	1500	1500	1800
1200–3500	100	0–90°	1200	900	1200
	150	0–90°	1200	900	1200
	225	0–90°	1200	900	1200
	300	0–90°	1200	900	1200
	375	0–90°	1200	900	1200
	450	0	1200	1050	1200
		0–45°	1200	1350	1350
		45°–90°	1200	1350	1350
	525	0	1200	1200	1200
		0–45°	1200	1350	1350
		45°–90°	1350	1350	1350
	600	0–45°	1200	1350	1350
		45°–90°	1350	1350	1350
	750	0–45°	1200	1350	1350
		45°–90°	1350	1350	1350
	900	0–45°	1350	1500	1800
		45°–90°	1500	1500	1800
3500–6000	100	0–90°	1200	900	1200
	150	0–90°	1200	900	1200
	225	0–90°	1200	900	1200
	300	0–90°	1200	900	1200
	375	0–90°	1200	900	1200
	450	0–45°	1200	1350	1350
		45°–90°	1350	1350	1350
	525	0–45°	1200	1350	1350
		45°–90°	1350	1350	1500
	600	0–45°	1200	1350	1350
		45°–90°	1350	1350	1500
	750	0–45°	1200	1350	1500
		45°–90°	1350	1350	1500
	900	0–45°	1350	1500	1800
		45°–90°	1500	1500	1800

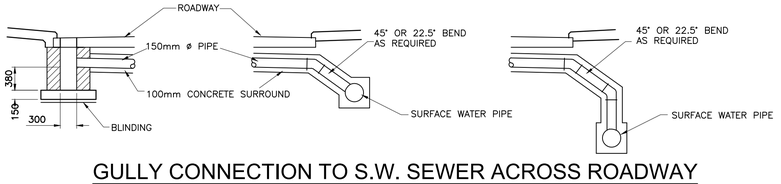
TABLE 1



DETAIL OF STEP RUNG



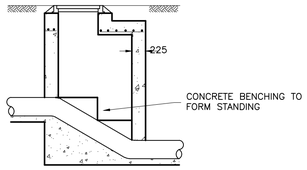
DETAIL OF ACCESS LADDER



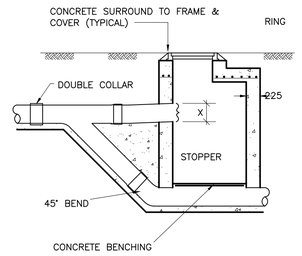
GULLY CONNECTION TO S.W. SEWER ACROSS ROADWAY

MANHOLE TYPE	DIA. OF INLET	DROP	DIA. OF DROP	X
TYPE A	225	0–500	225	–
B		500–1000	225	225
C		> 1000	225	225
TYPE A	300	0–600	300	–
B		600–1000	300	300
C		> 1000	225	300
TYPE A	375	0–750	450	–
B		750–1200	300	450
C		> 1200	300	300
TYPE A	450	0–750	450	–
B		750–1200	300	450
D		> 1200	300	450
TYPE A	525	0–750	525	–
B		750–1200	375	525
D		> 1200	300	375
TYPE A	600	0–750	600	–
B		750–1500	375	375
D		> 1500	375	375
TYPE A	750	0–750	600	–
B	750	750–1500	450	450
D		> 1500	375	450

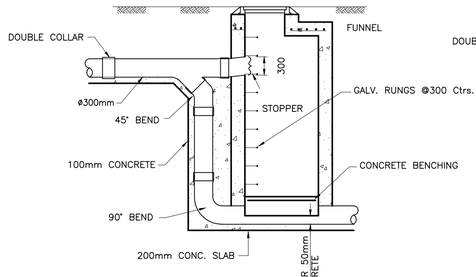
TABLE 2



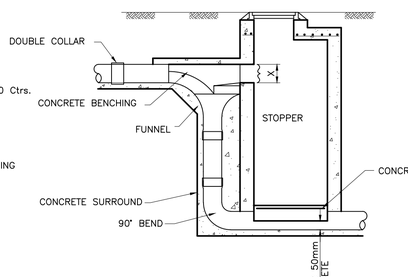
MANHOLE TYPE 'A'
RAMP MANHOLE



MANHOLE TYPE 'B'
INTERMEDIATE DROP MANHOLE

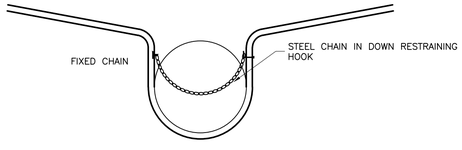


MANHOLE TYPE 'C'
BACK DROP MANHOLE



MANHOLE TYPE 'D'
BACK DROP MANHOLE

NOTE:
FOR DIMENSIONS ETC. TO MANHOLES TYPE 'A','B','C', & 'D' SEE TABLE 2



TYPICAL DETAIL OF SAFETY CHAIN

DRAFT
11/04/2024

NOTES

1. PRECAST MANHOLES SHALL HAVE 150mm GRADE C16/20 CONCRETE SURROUND UNLESS MANUFACTURER CAN SHOW, TO THE ENGINEERS SATISFACTION, THAT PERMANENTLY WATERPROOF JOINTS CAN BE ACHEIVED BY SOME OTHER METHOD
2. FOR 750mm ø PIPES OR GREATER, USE A SAFETY CHAIN AND PROVIDE 25mm ø GALVANISED SOLID BAR HANDRAILS AT EDGES OF BENCHING
3. STEP RUNGS TO BE PROVIDED IN MANHOLES MORE THAN 1m DEEP
4. MANHOLE COVERS & FRAMES SHALL BE IN ACCORDANCE WITH EN 124. WATERWORKS (SLUICE VALVES, HYDRANTS ETC.) SHALL BE IN ACCORDANCE WITH IS261
6. IN MANHOLES WHOSE PIPE DIAMETER IS GREATER THAN 375, ONE BENCHING SHOULD BE AT LEAST 400 WIDE
7. BENCHING TO BE OF CLASS C16/20 CONCRETE FINISHED WITH 2:1 SAND/CEMENT MORTAR
8. ALL MANHOLE COVERS & GULLIES TO BE LOCKABLE
9. PRECAST CONCRETE RINGS TO BE ENCASED IN 150mm MIN. MASS CONCRETE.
10. ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTE WATER INFRASTRUCTURE AND STANDARD DETAILS AND GREATER DUBLIN REGIONAL CODE OF PRACTICE.

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, SPECIFICATIONS AND THE PRELIMINARY HEALTH & SAFETY PLAN.

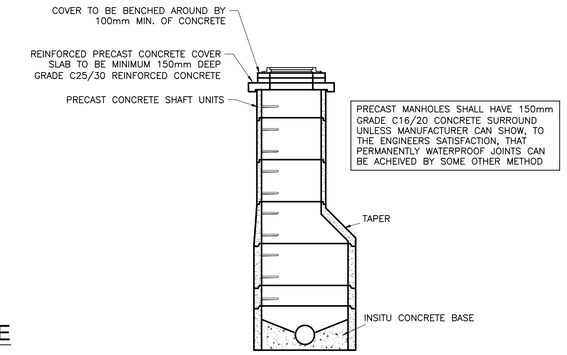
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE. DO NOT SCALE DIMENSIONS.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IN WRITING.

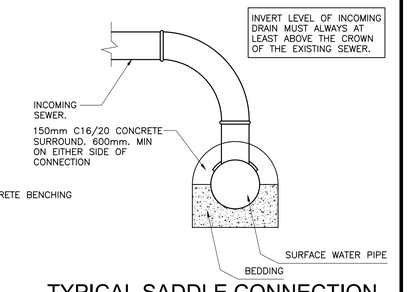
NOTES

LOCAL AUTHORITY / COUNTY COUNCIL GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF HOUSING MANUAL TO TAKE PRECEDENCE WHERE ANY CONFLICT OCCURS.
GREATER DUBLIN REGIONAL CODE OF PRACTICE TO TAKE PRECEDENCE WHERE ANY CONFLICT OCCURS.

ALL EXCAVATIONS/FORMATIONS TO BE SUBJECT TO PLATE TESTS AT LOCATIONS TO BE AGREED ON SITE



PRECAST CONCRETE MANHOLE



TYPICAL SADDLE CONNECTION
SCALE 1:20

REV	DESCRIPTION	DATE	BY	CHK
00	ISSUED FOR PLANNING (PART 8)	12.07.24	JD	CC

STATUS
P3 – ISSUED FOR PLANNING

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CLIENT
NATIONAL DEVELOPMENT FINANCE AGENCY AND DUBLIN CITY COUNCIL

JOB NAME
SOCIAL HOUSING BUNDLE 4, DEVELOPMENT AT CROKE VILLAS, SACKVILLE AVENUE.

DRG. NAME
SITE DEVELOPMENT DETAILS
SHEET 1
DRAINAGE DETAILS

JOB REF	SHEET	SCALE	DATE	BY	ENG	APP	REV.
23006	A1	As Shown	OCT'2023	JD	CC	COB	00

DRG. NO.
SHB4-CVD-DR-MOR-CS-P3-137