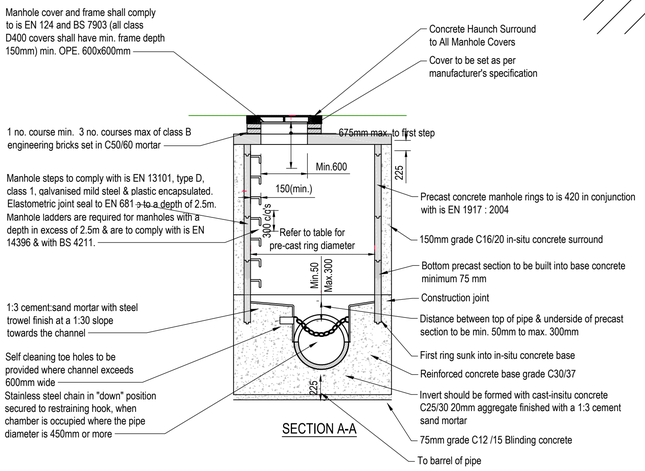
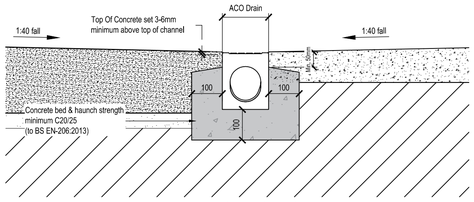
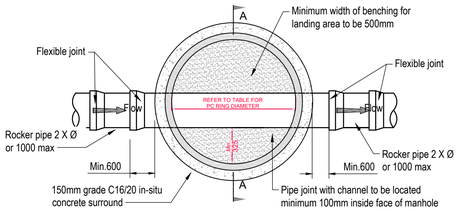


SECTION A-A



Aco Drain Detail Scale 1:10

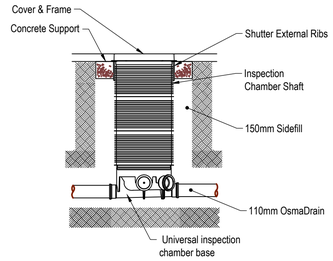


PLAN

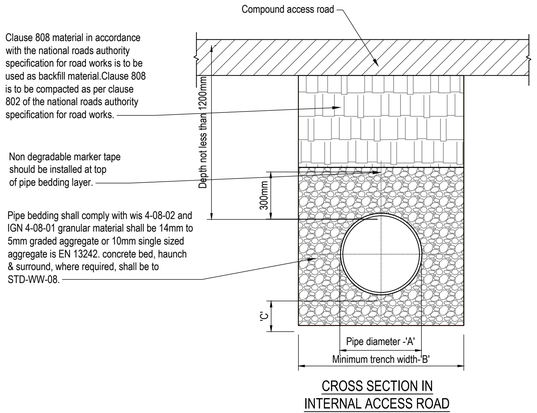
PRE-CAST CONCRETE MANHOLE

Not to Scale

MINIMUM MANHOLE DIAMETERS	
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	**INTERNAL DIAMETER OF MANHOLE (mm)**
LESS THAN 375	1200
375 TO 450	1350
500 TO 750	1500



ACCESS JUNCTION
(MAX DEPTH 1.2m, 450mm DIA. SHAFT TO A DEPTH OF 450MM AND GREATER THAN 450mm DEPTH TO BE 600mmØ)

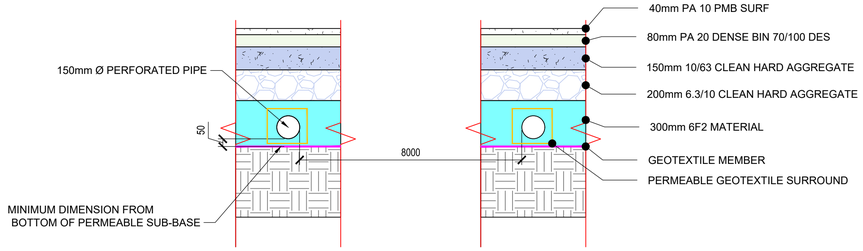


CROSS SECTION IN INTERNAL ACCESS ROAD

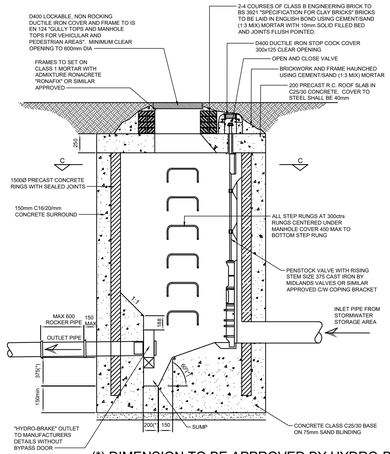
PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
≤100	100
150 - 450	200

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. CONCRETE PIPE BEDS AND HAUNCHES REQUIRED WHERE MINIMUM COVER IS LESS THAN 1200MM ROAD.
3. CONCRETE PIPE BEDS AND HAUNCHES SHALL HAVE A MINIMUM THICKNESS.
4. CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 AND TO BE CLASS C30/37.
5. THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORM WORK TO PROVIDE A ROUGH CAST FINISH.
6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR PIPE FLEXIBILITY, COMPRESSIBLE FILLER BOARD TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4, AND TO BE 18mm THICK
7. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES

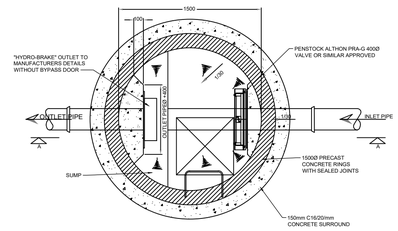


SECTION A-A
Scale 1:20



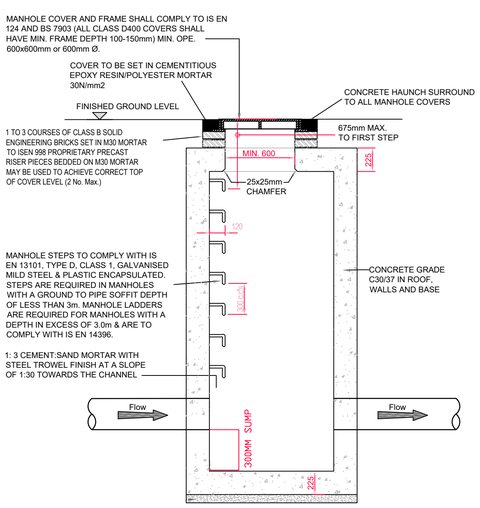
(*) DIMENSION TO BE APPROVED BY HYDRO-BRAKE" SUPPLIERS
SECTION A-A: "HYDROBRAKE" MANHOLE DETAIL

Not to Scale



SECTION C-C: "HYDROBRAKE" MANHOLE DETAIL

Not to Scale



STORMWATER CATCH-PIT MANHOLE DETAIL

NOTES:
1. ALL DETAILS TO BE READ IN CONJUNCTION WITH THE CURRENT IRISH WATER DOCUMENTATION:
   - WASTE WATER INFRASTRUCTURE STANDARD DETAILS.
   - CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.
2. ALL COVERS, GRATINGS & FRAMES IN HARDSTANDING AREAS ARE TO BE A MINIMUM OF CLASS D400 DUCTILE IRON IN ACCORDANCE WITH BS EN 124

REV	DATE	DESCRIPTION	BY	APP
2	16.07.26	ISSUED FOR PLANNING PERMISSION	C.M	I.B.
1	27.05.26	ISSUED FOR INFORMATION	RH	IB
0	22.04.26	ISSUED FOR INFORMATION	RH	IB

PROJECT:
STEEVEN'S LANE 110KV GIS SUBSTATION

TITLE:
COMPOUND DRAINAGE DETAILS

CLIENT: ESB NETWORKS

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwp.ie

DRAWN:	CHECKED:	APPROVED:
R.H	S.M	I.B.
PROJECT NUMBER: 27057	DATE: MAY 2026	SCALE @ A1: AS SHOWN
ACCEPTANCE CODE: S	PURPOSE OF ISSUE: ISSUED FOR PLANNING PERMISSION	PURPOSE CODE: P3
DRAWING NUMBER: 27057-00-DTM-DR-MWP-CE-2400		REV: 2