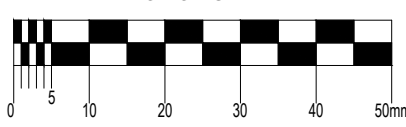


ON ORIGINAL

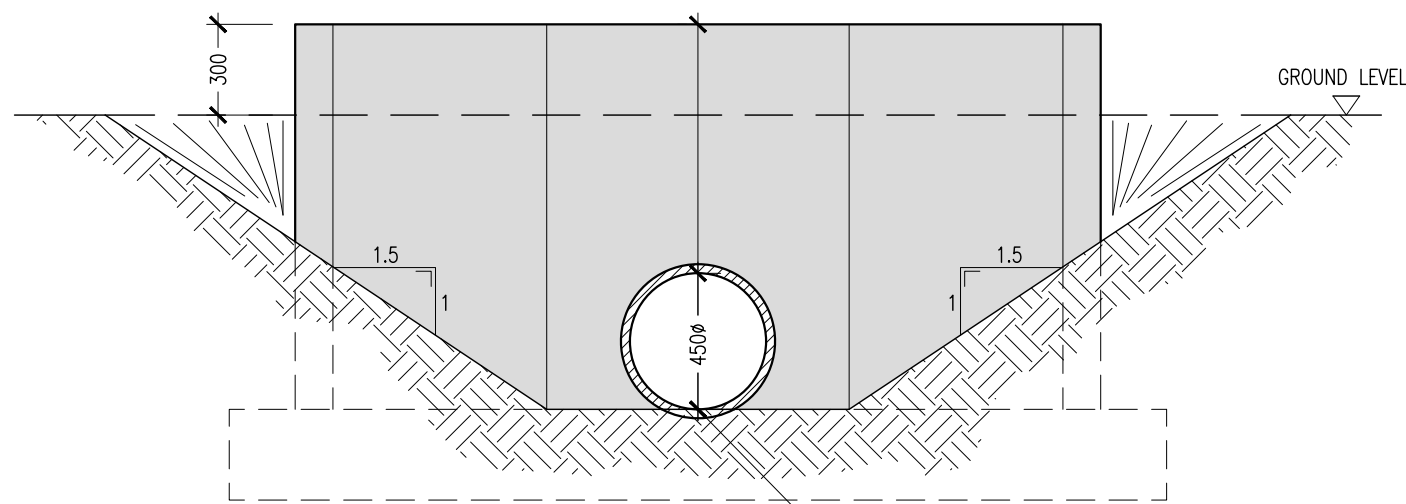


© COPYRIGHT OF THIS DRAWING IS RESERVED BY DBFL CONSULTING ENGINEERS. NO PART SHALL BE REPRODUCED OR TRANSMITTED WITHOUT THEIR WRITTEN PERMISSION.

NO CHANGES OF WHATSOEVER NATURE ARE TO BE MADE TO ANY DETAILS SET OUT OR CONTAINED IN ANY DBFL SPECIFICATIONS OR DRAWINGS UNLESS THE EXPRESS CONSENT HAS BEEN OBTAINED IN ADVANCE, IN WRITING, FROM DBFL.

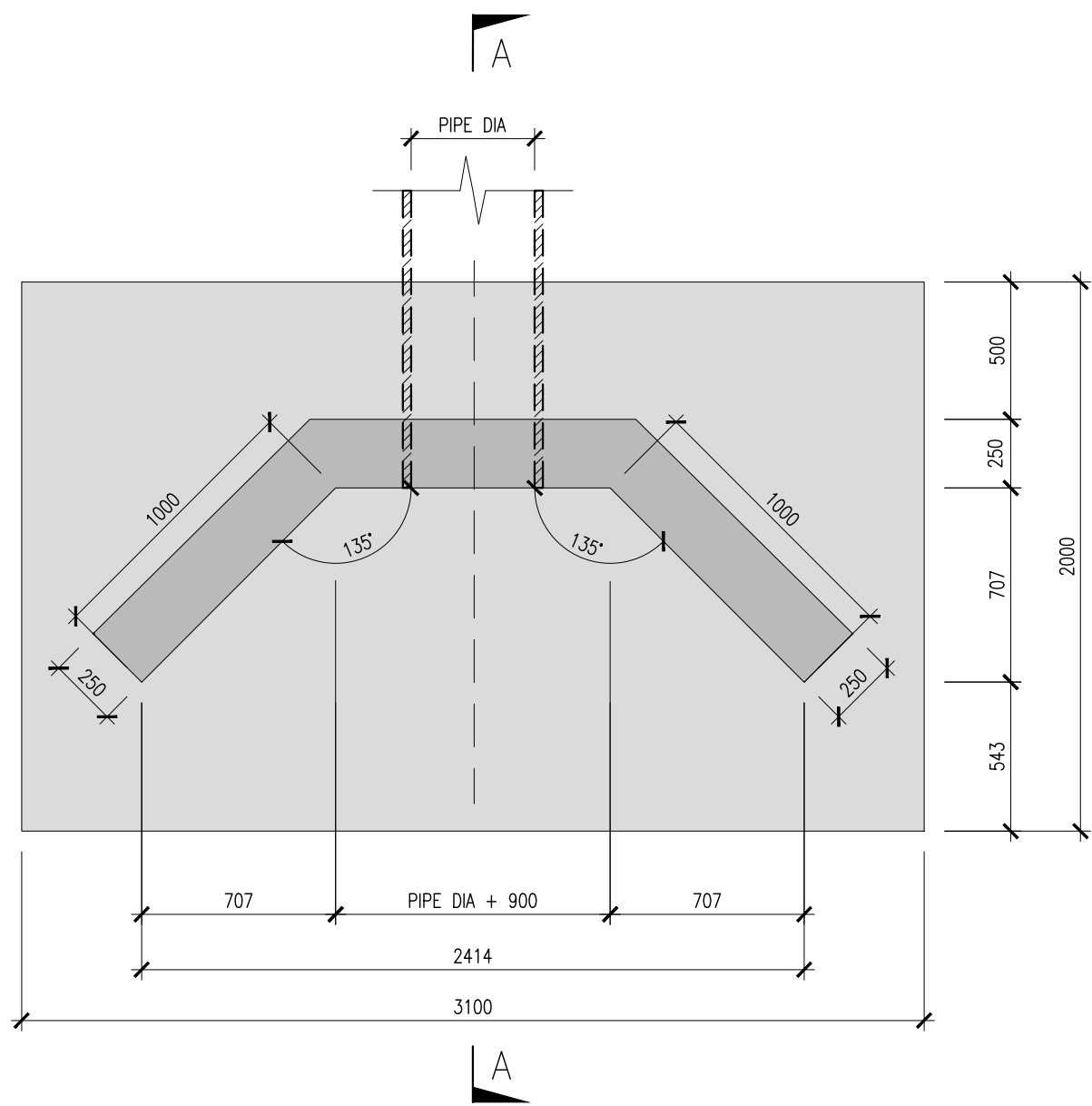
NOTES:

- HYDRANTS SHALL BE MANUFACTURED IN ACCORDANCE WITH BS 750: 2012 TYPE 2 AND SHALL INCORPORATE A SCREWDOWN VALVE, UNDERGROUND "GUIDE IN LOAD" TYPE WITH BAYONET LEG OUTLETS AND FABE SPINDLE CAP OF CAST IRON AND IRON CHAIN. HYDRANT VALVE SHALL BE "ANTI CLOCKWISE OPENING".
- SLUICE VALVES SHALL COMPLY WITH THE REQUIREMENT OF IS EN 1074. THEY SHALL "CLOSE BY TURNING ANTI CLOCKWISE" TO IRISH WATER SPECIFICATION.
- VALVES AND HYDRANTS WHEN INSTALLED SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL SURFACE COVERS. THESE COVERS MUST CONFORM WITH IRISH WATER SPECIFICATIONS: COVERS TO BE HEAVY DUTY METAL COVERS TO IS EN 124 : 1994.
- INDICATOR PLATES SHALL CLEARLY IDENTIFY HYDRANT, AIR VALVE AND SLUICE VALVE LOCATIONS AND BASE BOARD LOCATIONS SHALL BE APPROVED BY IRISH WATER. FIXED LETTERINGS SHALL COMPLY WITH BS3251. BACKGROUND COLOUR YELLOW TEXT COLOUR BLACK.
- DRAINAGE MUST BE PROVIDED TO ENSURE THAT THE CHAMBERS CANNOT BECOME FLOODED WITH SURFACE OR GROUND WATER.
- ALL WATERMANS SHALL BE HDPE SDR17 PVC-A "BLUE PIPE" EXCEPT UNDER ROADS WHERE DUCTILE IRON TO BE USED.
- ALL SERVICE PIPES, CONNECTIONS AND WATER CONTROL UNITS SHALL BE AS PER IRISH WATER REQUIREMENTS. SERVICE PIPES TO BE 25mm(OD)PE (HEAVY DUTY AND BOUNDARY METER BOXES) ATLAS BOUNDARY BOX OR EQUAL APPROVED.
- ALL WATERMANS AND FITTINGS ASHALL COMPLY WITH IRISH WATER "GUIDELINES FOR DRINKING WATER SUPPLY".
- ALL WATERMANS SHALL BE TESTED IN ACCORDANCE WITH IRISH WATER GUIDELINES FOR DRINKING WATER SUPPLY.
- CONNECTION TO EXISTING WATERMAIN TO BE CO-ORDINATED WITH IRISH WATER.
- CONTRACTOR TO LIASE WITH LOCAL OVERSEEING AUTHORITY FOR TESTING CLEANSING AND STERILISATION OF NEW WATERMANS.
- ALL ROAD CONSTRUCTION MATERIALS TO COMPLY WITH NRA VOLUME 1 SPECIFICATIONS FOR ROADWORKS DATED MARCH 2011 AND SUBSEQUENT REVISIONS OF SAME. RCD REFERENCE DETAILS TO BE AS PER NRA VOLUME 4 ROAD CONSTRUCTION DETAILS DATED JUNE 2014.

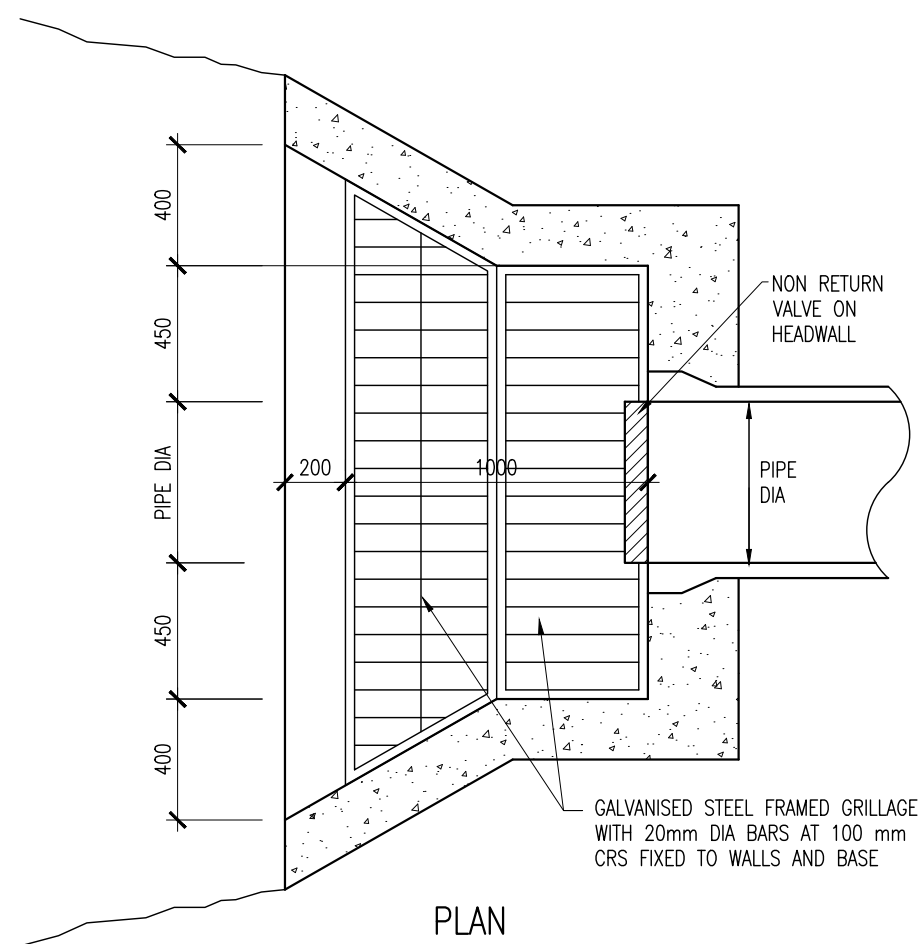


FOR BED LEVEL,PIPE DIAMETER AND HEADWALL HIGHT REFER TO NOTE (3)

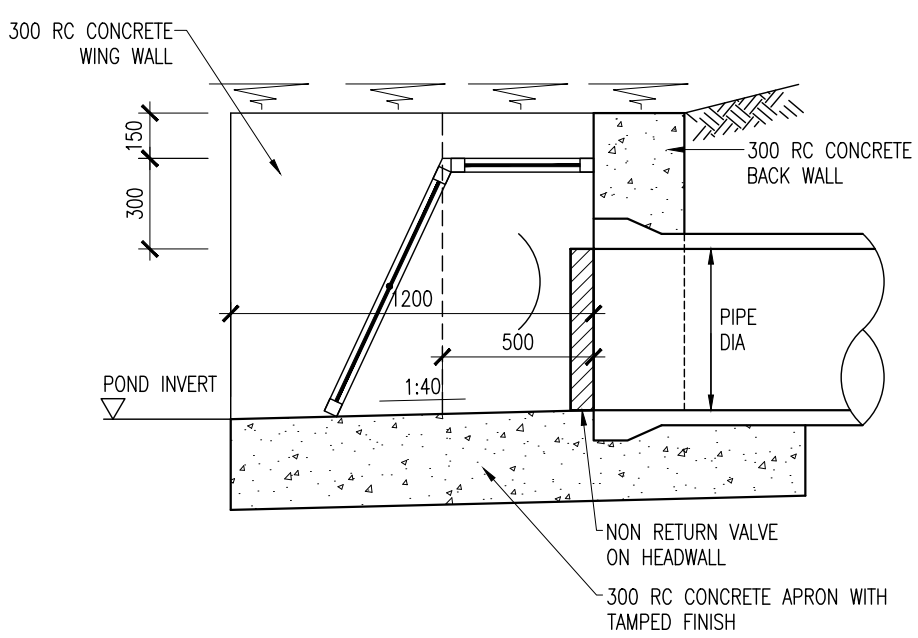
ELEVATION



A

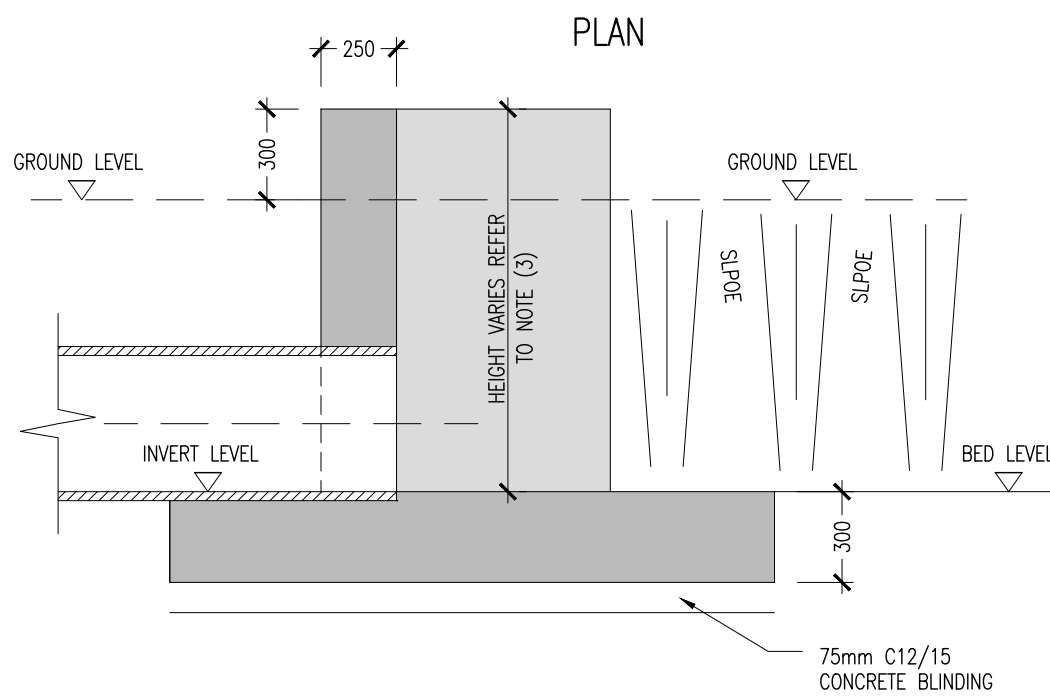


PLAN



SECTION

LARGE HEADWALL DETAIL

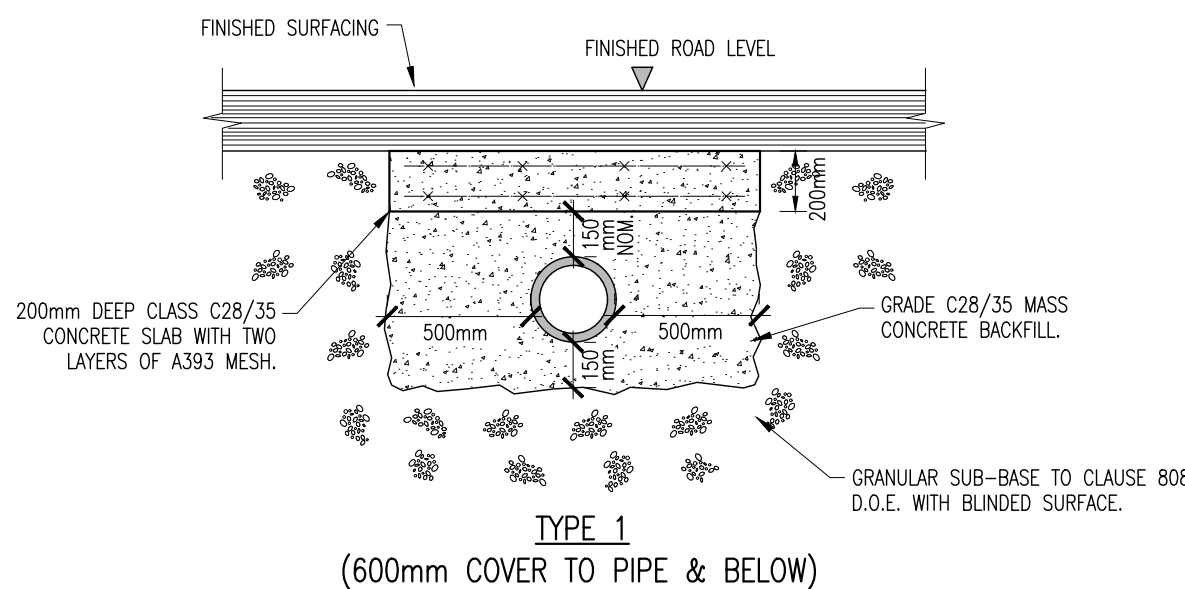


PLAN

NOTES:

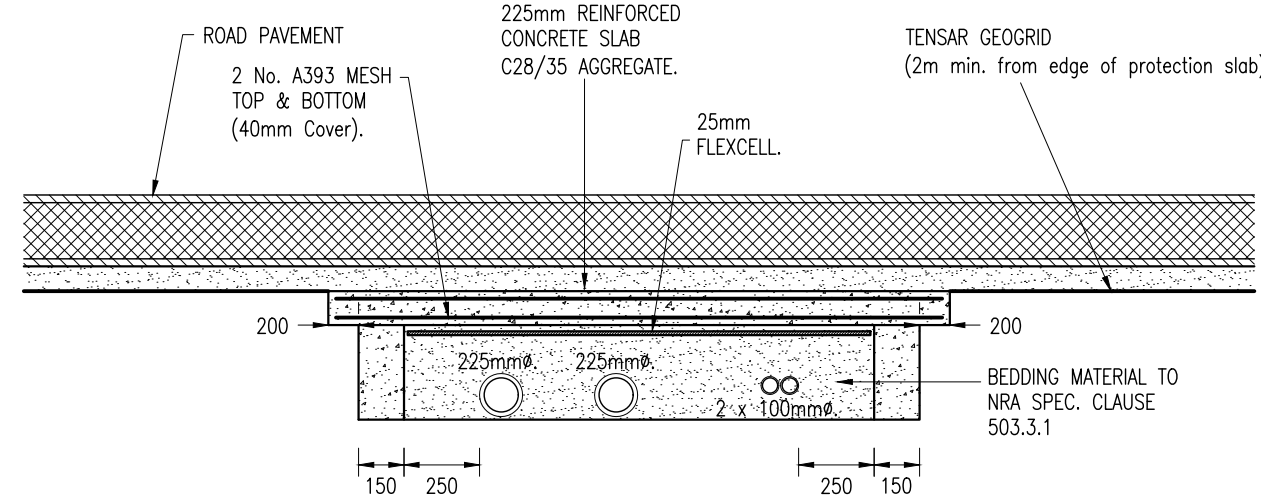
- THIS RCD IS ONLY TO BE USED IN ASSOCIATION WITH A UNIQUE STRUCTURAL DESIGN CARRIED OUT FOR THE HEADWALLS ON A PROJECT IN ACCORDANCE WITH THE RELEVANT DESIGN CODES AND SITE GROUND CONDITIONS.
- ALL EXPOSED CONCRETE SURFACES FROM 100mm BELOW GROUND LEVEL TO BE CLASS F3 FINISH. ALL OTHER CONCRETE SURFACES TO BE CLASS F1 FINISH UNLESS OTHERWISE SPECIFIED.
- REFER TO DRAINAGE LONGTUDINAL SECTIONS AND/OR DRAINAGE SCHEDULES FOR PIPE DIAMETER SIZES, INVERT LEVELS AND HEADWALL HEIGHTS. MAXIMUM PIPE DIAMETER 450mm AND MAXIMUM HEADWALL HEIGHT 2.3m.
- HEADWALL WINGWALLS TO BE SLOPED WHERE APPROPRIATE.

SMALL HEADWALL – SECTION A-A



TYPE 1

(600mm COVER TO PIPE & BELOW)



TYPE 2

(600mm COVER TO PIPE & BELOW)

TYPICAL SERVICES PROTECTION DETAIL IN PUBLIC AREAS

P01	03-10-25	LRD Stage 3 Submission	AAC	BCU
rev	date	description	by	chkd.

STATUS CODES

purpose P3 - PLANNING PERMISSION acceptance S - ISSUED

DBFL
CONSULTING ENGINEERS

T: + 353 1 400 4000 | E: info@dbfl.ie | W: www.dbfl.ie

DUBLIN | CORK | GALWAY | WATERFORD

project ref.

BALLYMASTONE_PHASE 3 LRD

drawing title

TYPICAL SW DRAINAGE DETAILS
SHEET 3

architect

MDO

designed by	author	scale	sheet size
BCU	AAC	AS SHOWN	A1

drawing no.	revision
20003-DBF-XXXX-XX-DR-C01-533003	P01