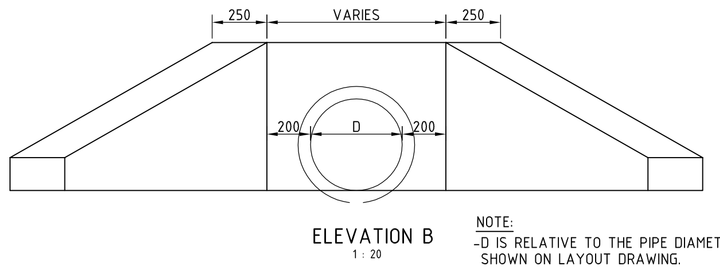
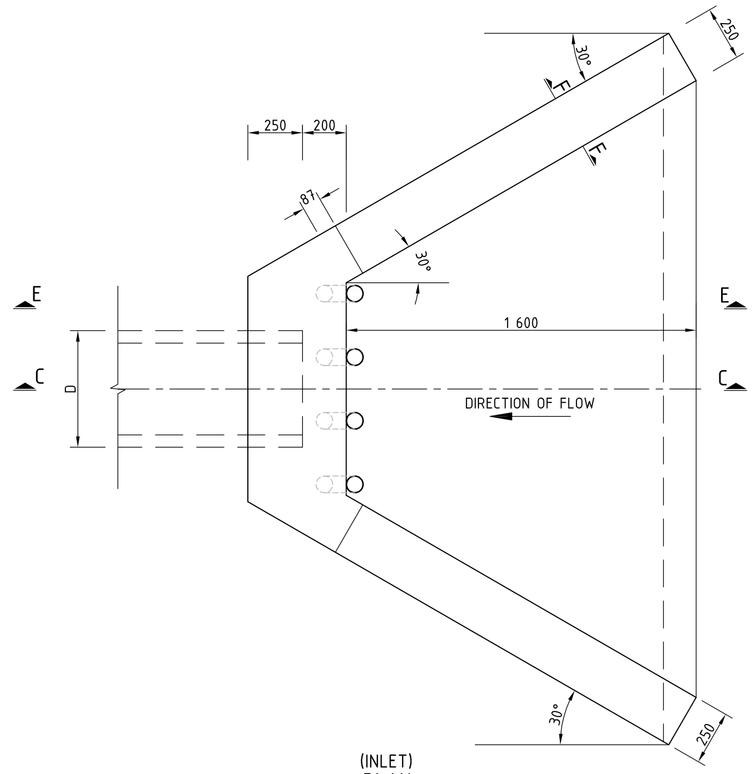
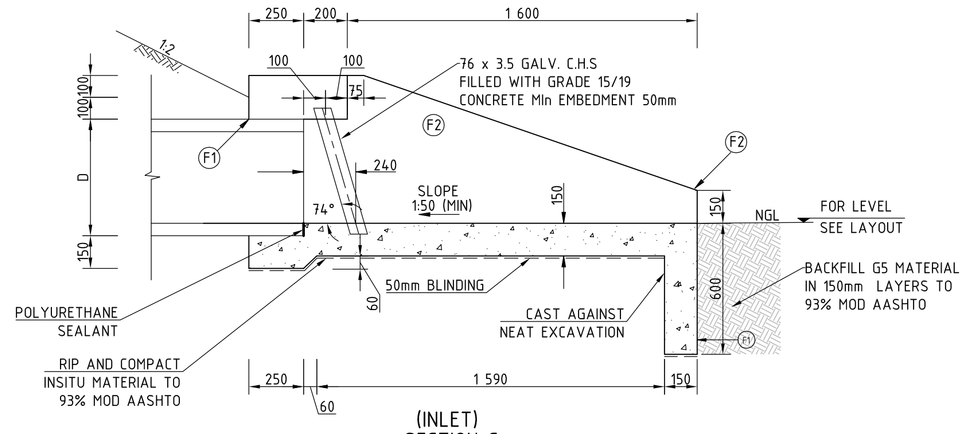


ELEVATION B
1 : 20

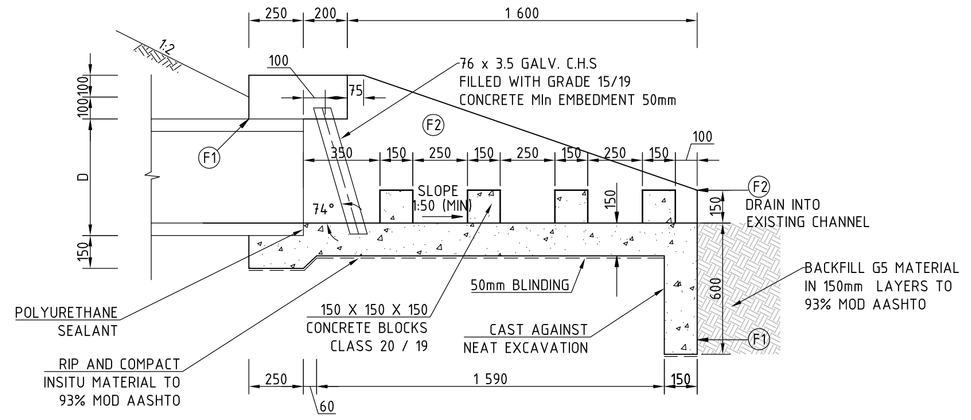
NOTE:
-D IS RELATIVE TO THE PIPE DIAMETER SHOWN ON LAYOUT DRAWING.



(INLET)
PLAN
1 : 20

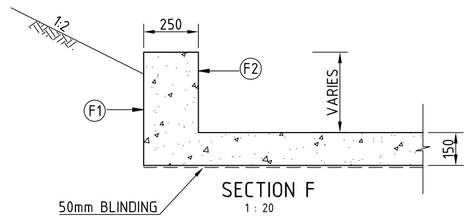


(INLET)
SECTION C
1 : 20

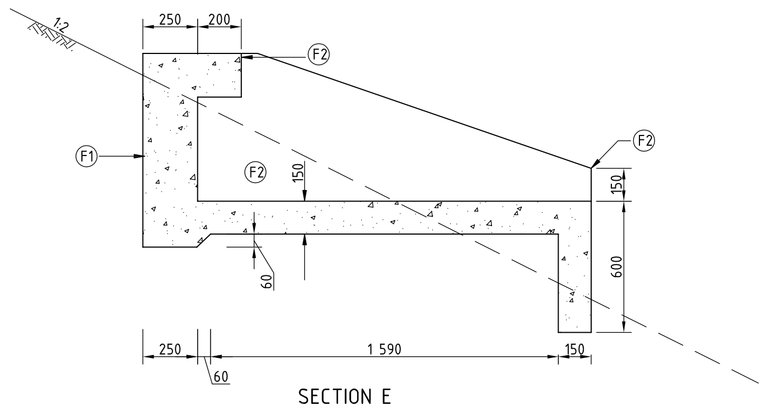


(OUTLET)
SECTION G
1 : 20

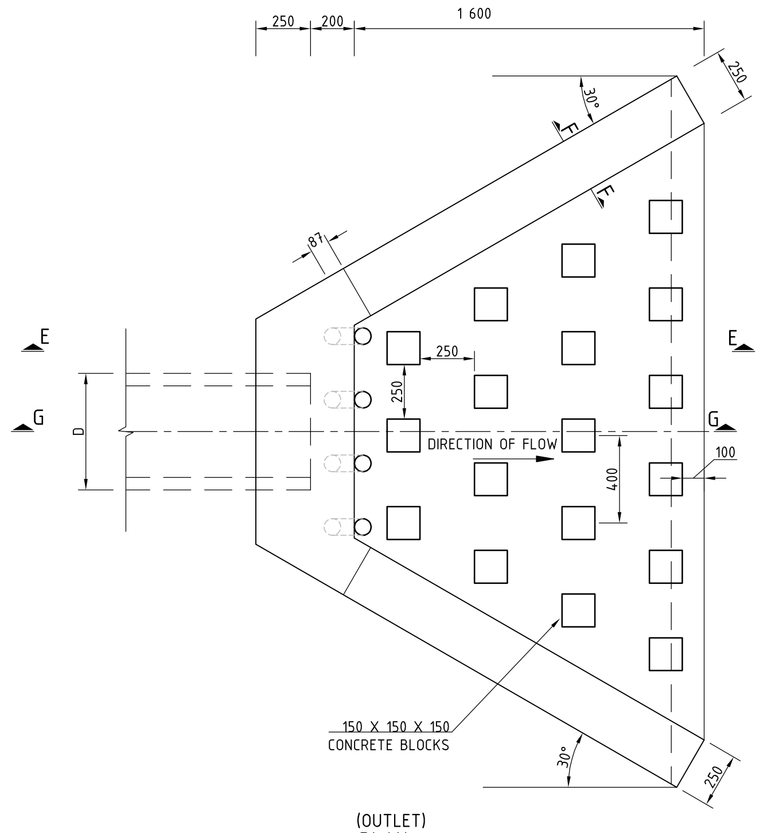
NOTE:
-IF PIPE DIAMETER IS LESS THAN 600mm THEN ONLY ONE ROW OF BLOCKS.
-D IS RELATIVE TO THE PIPE DIAMETER SHOWN ON LAYOUT DRAWING.



SECTION F
1 : 20



SECTION E
1 : 20



(OUTLET)
PLAN
1 : 20

NOTE:
-IF PIPE DIAMETER IS LESS THAN 600mm THEN ONLY ONE ROW OF BLOCKS.
-D IS RELATIVE TO THE THE PIPE DIAMETER SHOWN ON LAYOUT DRAWING.

NOTES:

CONSTRUCTION

1. ALL EXPOSED CORNERS SHALL BE CHAMFERED 25 x 25
2. CONCRETE COVER TO REINFORCEMENT: 60mm
3. CONCRETE FINISH:
   CONCEALED SURFACES = F1
   EXPOSED SURFACES = F2
4. CONCRETE TO COMPLY WITH SANS 1200G AND ESKOM CONCRETE SPECIFICATION No. 084 CIVL053
5. THE UPPER LEVEL OF THE FILL ALWAYS PASSES THROUGH A POINT 100mm BELOW THE TOP OF THE HEAD WALL
6. THE MAXIMUM SLOPE OF EARTHWORKS SURROUNDING A CULVERT INLET OR OUTLET SHALL BE 1 : 2
7. CONCRETE:
   STRUCTURAL: CLASS 35/19
   BLINDING: 15 MPa CONCRETE
8. PIPE DIMENSIONS:
   D IS RELATIVE TO THE PIPE DIAMETER SHOWN ON LAYOUT DRAWING

MATERIAL SPECIFICATION:

1. INLET/OUTLET CONCRETE SLABS AND WINGWALLS - CLASS 35/19
2. REINFORCEMENT (SABS 920 - 1985)

YIELD STRENGTH TYPE:	
MILD STEEL BARS	250 MPa
HIGH TENSILE STEEL BARS	450 MPa
WELDED STEEL FABRIC	450 MPa

DESIGN METHOD:

1. LIMIT STATE DESIGN ACCORDING TO TMH7 PART 3 AS AMENDED 1989
2. INLET AND OUTLET STRUCTURES ARE DESIGNED FOR LOADING SPECIFIED IN TMH7 PART 1 AND 2 AS AMENDED 1988 "CODE OF PRACTICE FOR THE DESIGN OF HIGHWAY BRIDGES AND CULVERTS IN S.A."
3. TYPE OF REINFORCEMENT AND SPACING ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR MUST SUBMIT WORKING DRAWINGS AND BENDING SCHEDULES FOR APPROVAL.

FOUNDING MATERIAL:

1. MAX. CALCULATED GROUND PRESSURE - 100kPa
2. FOUNDING LEVEL TO BE APPROVED BY THE PROJECT MANAGER.

EROSION PROTECTION:

1. TO BE PROVIDED WHERE OUTLET VELOCITIES AS INDICATED ON DRAINAGE SCHEDULE 2m/s

FOR CONSTRUCTION

	0	12/12/2013	ISSUED FOR CONSTRUCTION		PN	CM	LJ		
O.O.	REV	DATE	** REVISION **		REV BY	CHKD BY	AUTH BY	KKS APP	REFERENCE DRAWINGS
			INDEX REFERENCE:						
DRG REGISTER			AUTHORISED FOR ESKOM BY	DATE	MEDUPI POWER STATION				
DESIGN APPROVED	12 12 2013	LJ	C BESSIT	12/12/2013	ASHDUMP WORKSHOP & SUBSTATION (PACKAGE 35)				
KKS APP			2 Lynwood Galleries, 354 Rosemary Road, Lynwood, Tshwane, Tel: (012) 361 3629, Fax: (012) 361 3625		TYPICAL STORMWATER DETAILS HEADWALL DETAILS				
DO AUTH	12 12 2013	LJ							
CHKD BY	12 12 2013	CM			14031 - C - 460				
DRAWN BY	12 12 2013	PN						SHEET	REV
SCALE	AS SHOWN		Eskom		0.84 / 7243			23	0

SIZE GROOTTE A1L