

## LEGENDS

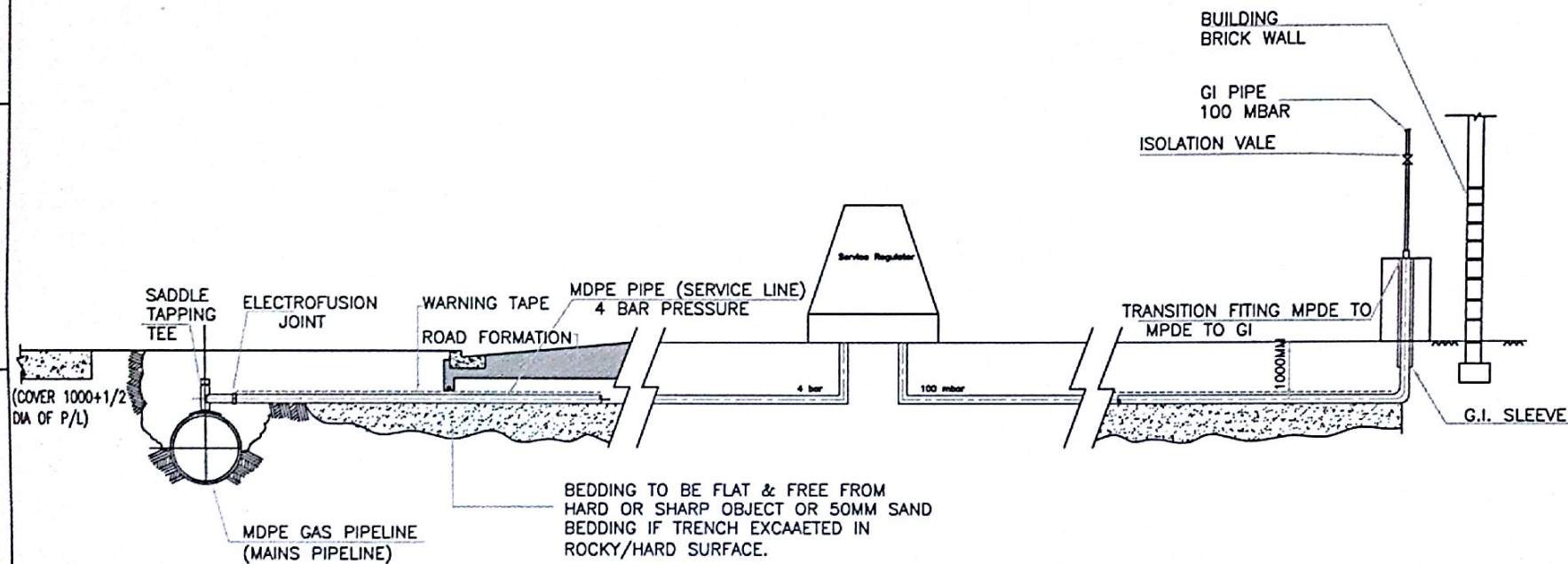
- UNDER GROUND LINE
- ABOVE GROUND LINE
- ✕ ISOLATION BALL VALVE
- ◁ REDUCER/DIPANDER
- ⊙ REGULATOR

Drawing No..

Schematic Diagram for Domestic  
PNG connection in Multistoried  
Housing Connection



Maharashtra Natural Gas Limited



#### GENERAL NOTES

1. FOR CLAMPING TO BRICK WALL USE SUITABLE WALL BRACKETS.
2. TRENCH BACK FILL TO BE FREE FROM STONES OR SHARP OBJECTS OR CARE TO EXERCISED WHEN CONSOLIDATING BACK FILL TO AVOID DAMAGING PLASTIC PIPE.
3. THIS SKTECH IS INCATIVE AND FINAL LAYING WILL BE ENGINEER-IN-CHARGE

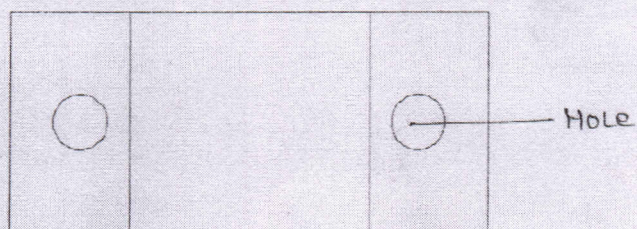
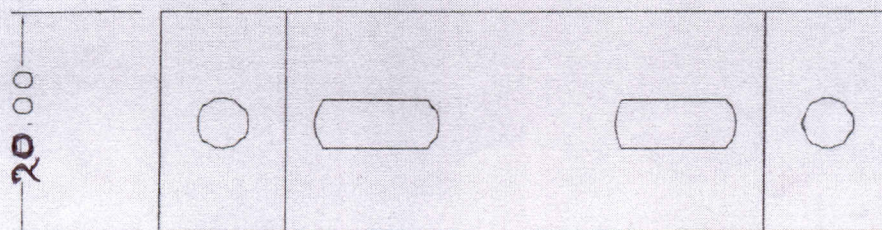
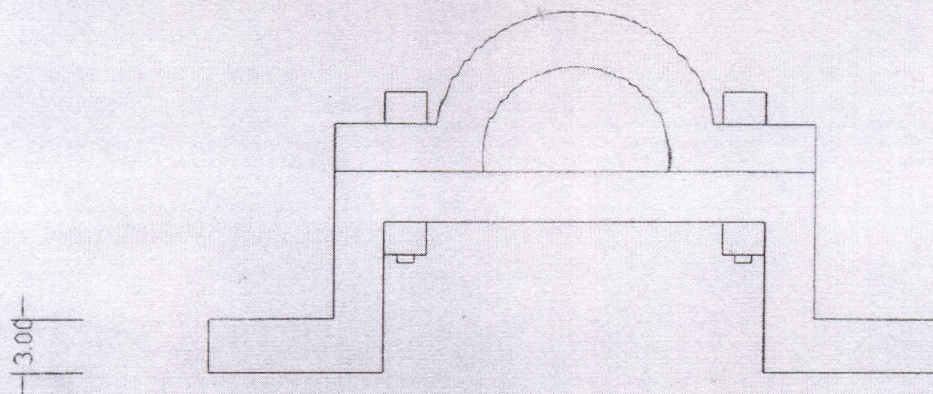
FOR TENDER PURPOSE

drawing no. 2

Scheme of medium <sup>Low Pressure</sup> service  
installation

Maharashtra Natural Gas Limited



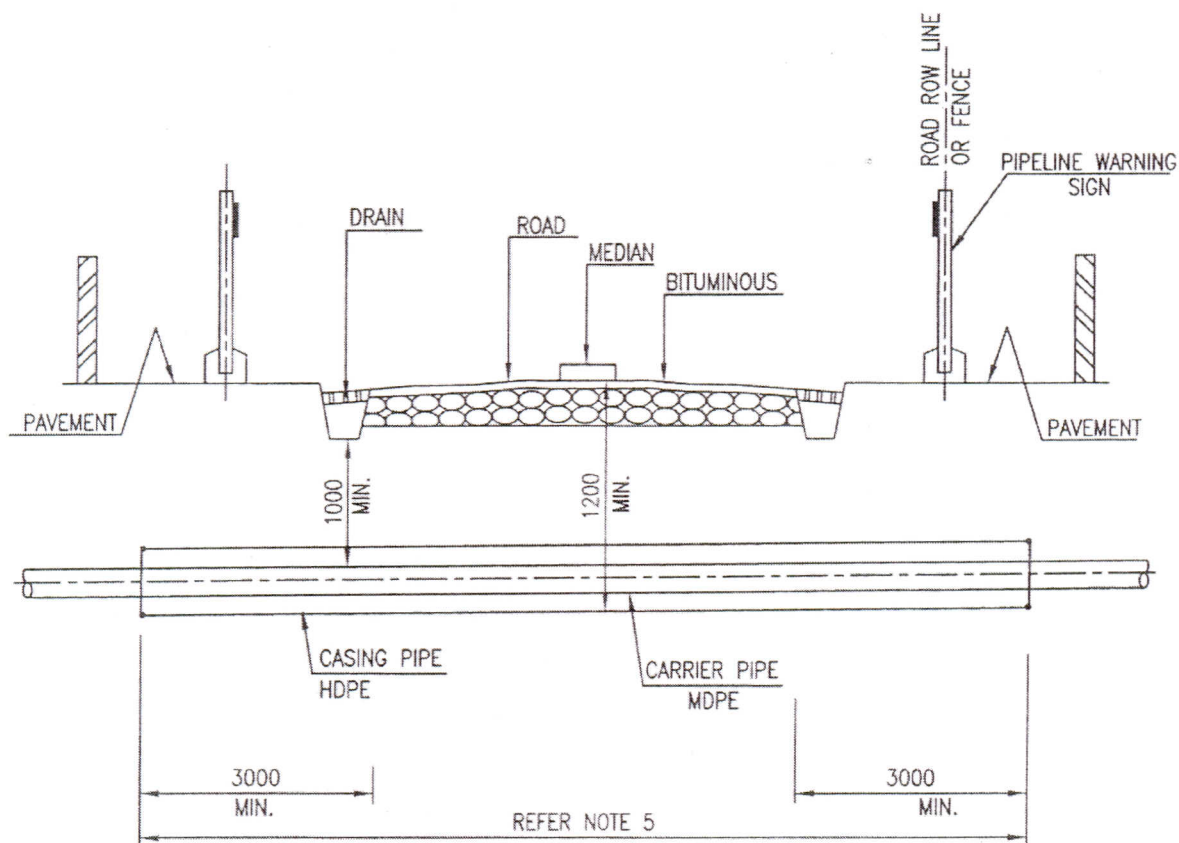


\* All dimension are in mm.

MNGL

GI Clamps(1/2" to 1")





**TYPICAL SECTION**

**NOTES:-**

1. ALL DIMENSIONS ARE IN MM. UNLESS SPECIFIED OTHERWISE.
2. ROAD/ HIGHWAY CROSSING SHALL BE RESTORED TO ORIGINAL CONDITION TO THE ENTIRE SATISFACTION OF COMPANY AND CONCERNED AUTHORITIES HAVING JURISDICTION.
3. REFER API RP 1102 FOR OTHER DESIGN AND INSTALLATION REQUIREMENTS.
4. ANGLE OF INTERSECTION BETWEEN PIPELINE AND THE ROAD/ HIGHWAY SHALL BE AS CLOSE TO 90° AS POSSIBLE BUT IN NO CASE LESS THAN 30°.
5. CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS WITH RESPECT TO SURVEY DETAILS FOR EACH ROAD/ HIGHWAY CROSSED AND PREPARE DETAILED DRAWING FOR INDIVIDUAL CROSSING FOR ENGINEER-IN-CHARGE. APPROVAL BEFORE COMMENCEMENT OF CONSTRUCTION.

**FOR TENDER PURPOSE**

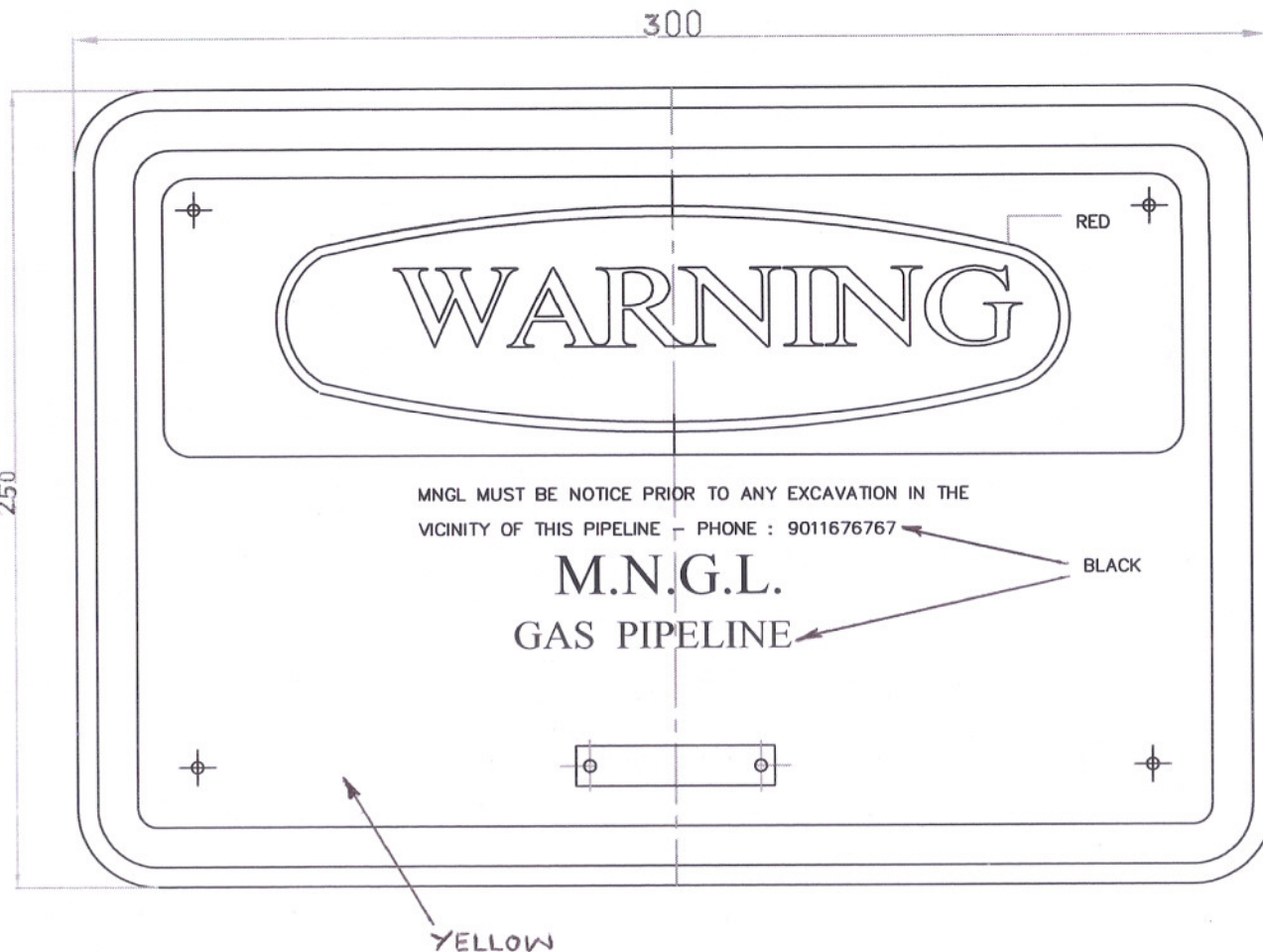
Drawing No.. 4

Road/Highway Cased Crossing For  
MDPE Pipe



Maharashtra Natural Gas Limited





### NOTES :-

1. THE FULL WORKING AND WILL BE DECIDED BY ENGINEER -IN-CHARGE.
2. SCHEME FOR PAINTING & COLOURING
  - ONE COAT OF PRIMER & TWO COATS OF SPECIFIED COLOUR PAINT.
  - ALL LETTRS EXCEPT WARNING TO BE PAINTED BLACK.
3. SIGN PLATE IN REGIONAL LANGUAGE BE PREPARED BY CONTRACTOR AS DECIDED BY ENGINEER-IN-CHARGE.
4. FIXING ON PERMANENT STRUCTURE AS DECIDED BY ENGINEER-IN-CHARGE.
5. ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.
6. 3MM THK G.I. SHEET TO BE USED AS BASE PLATE.

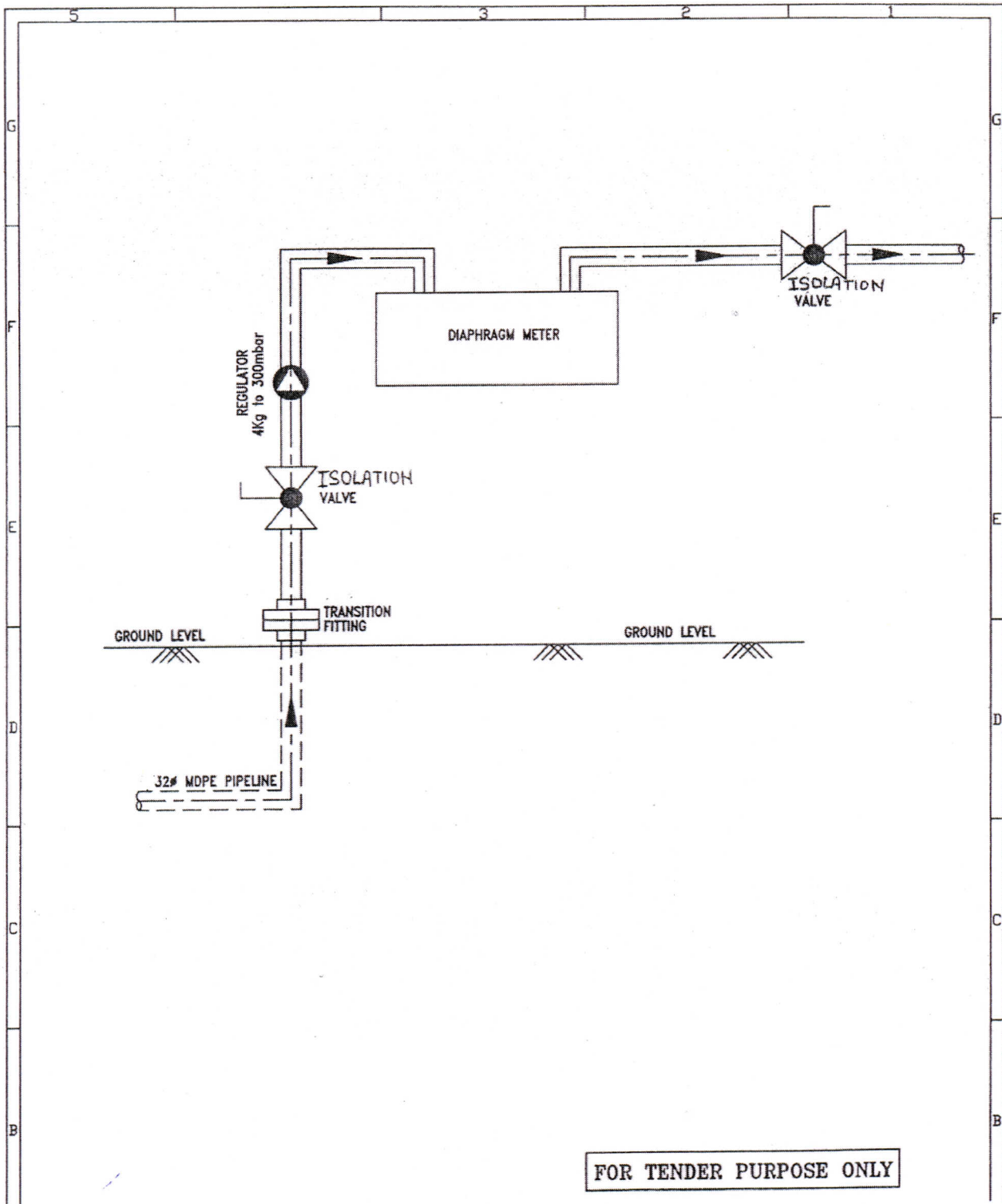
FOR TENDER PURPOSE

Drawing No.7

Warning plate without foundation

Maharashtra Natural Gas Limited





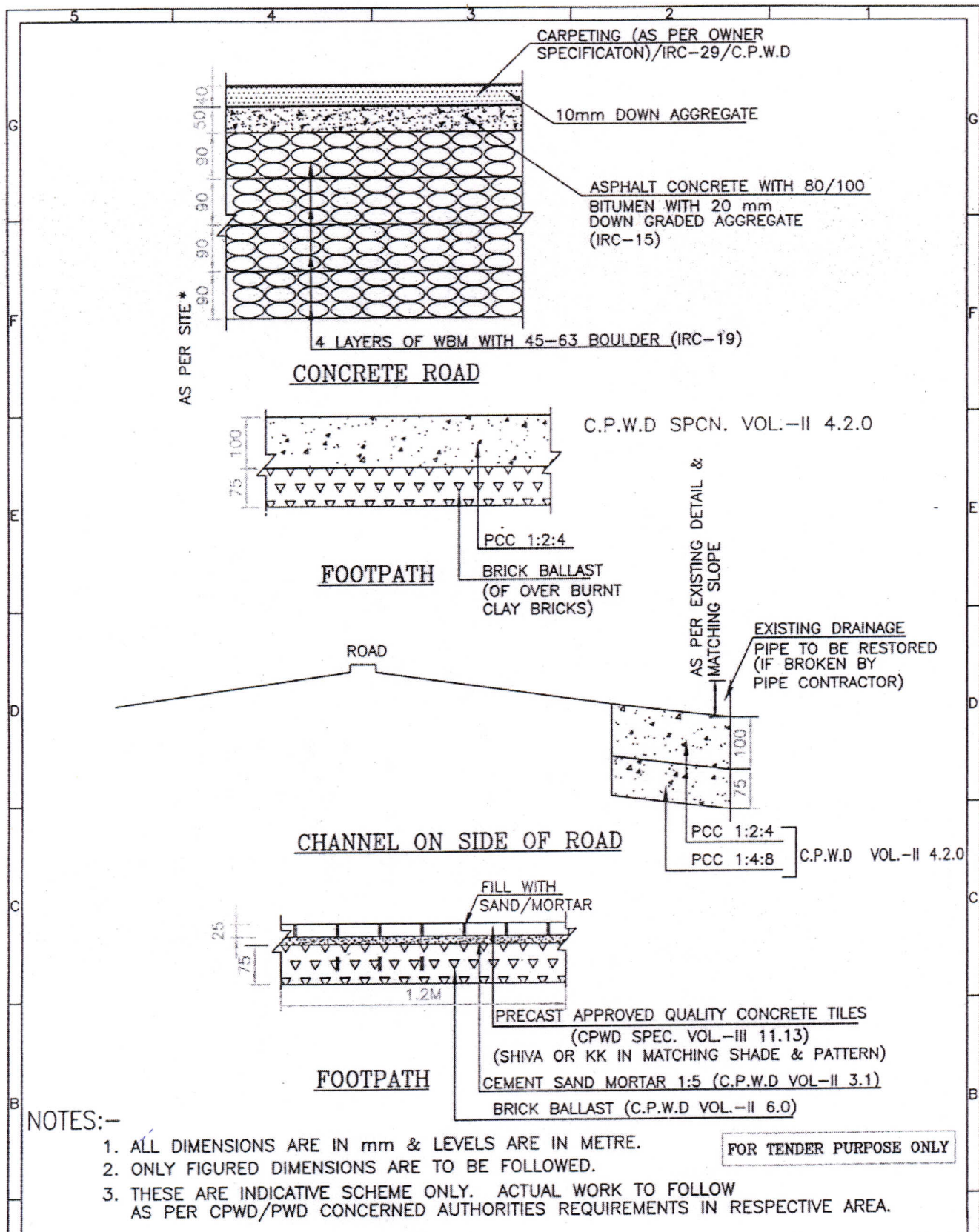
Drawing No.. 8

Commercial connection Scheme  
Type I



Maharashtra Natural Gas Limited





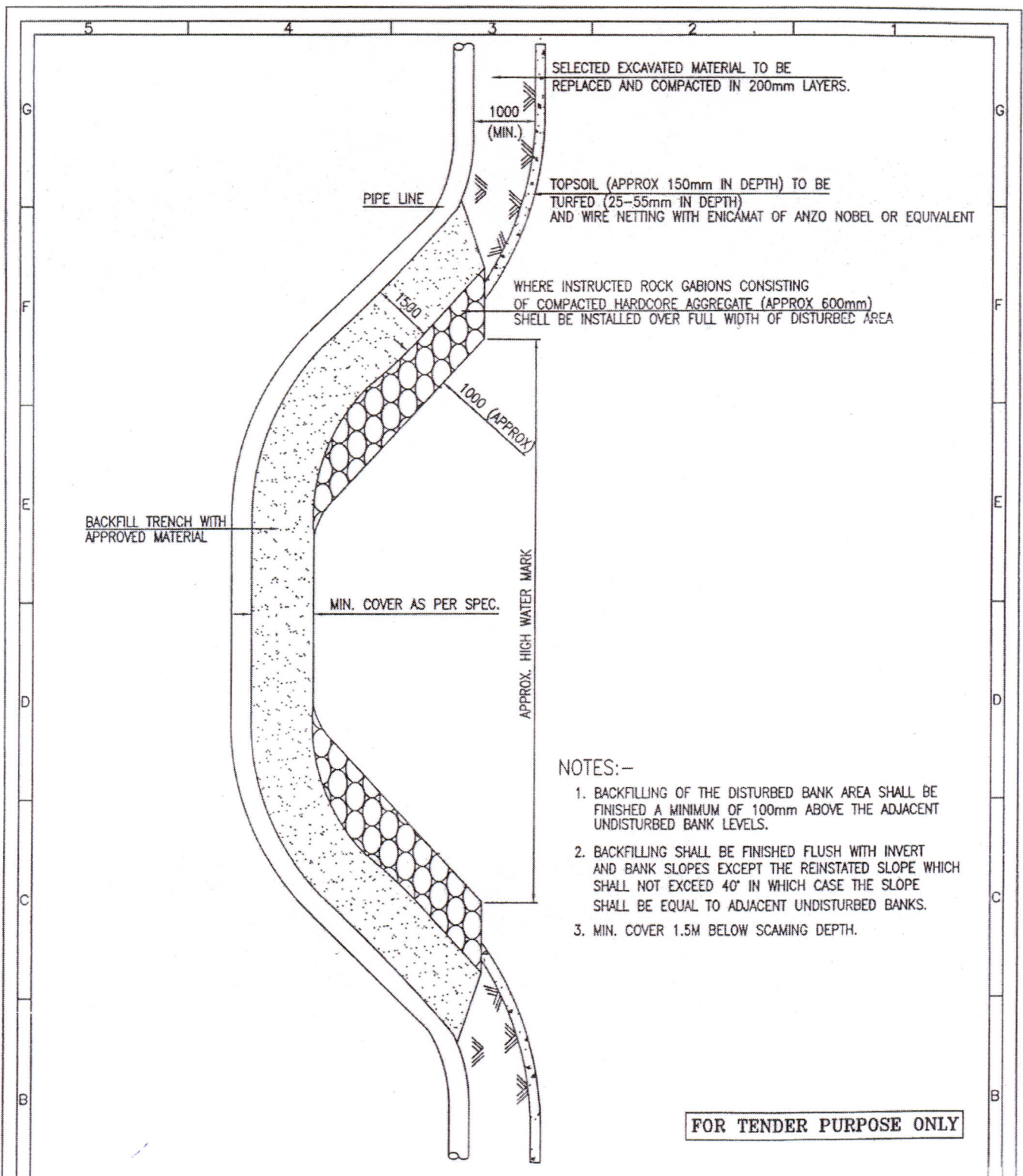
Drawing No.. ||

Restoration Of Roads, Footpath,  
Channel



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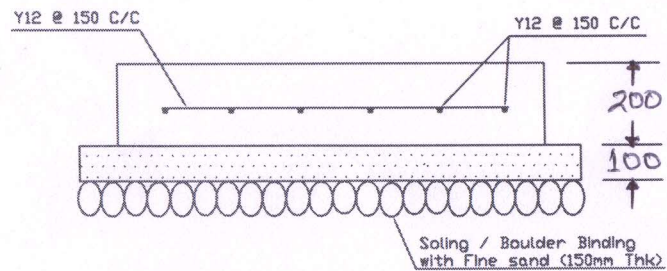
Drawing No.. 12

Std.Detail of Backfill For drain Crossing

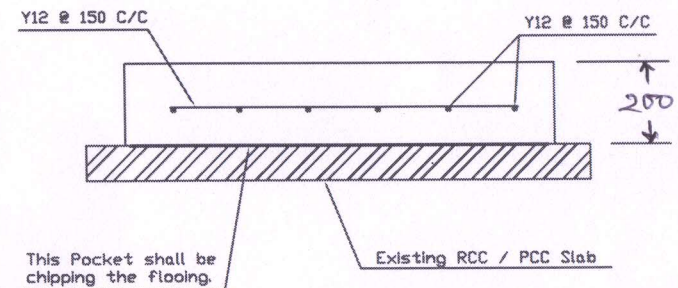


Maharashtra Natural Gas Limited

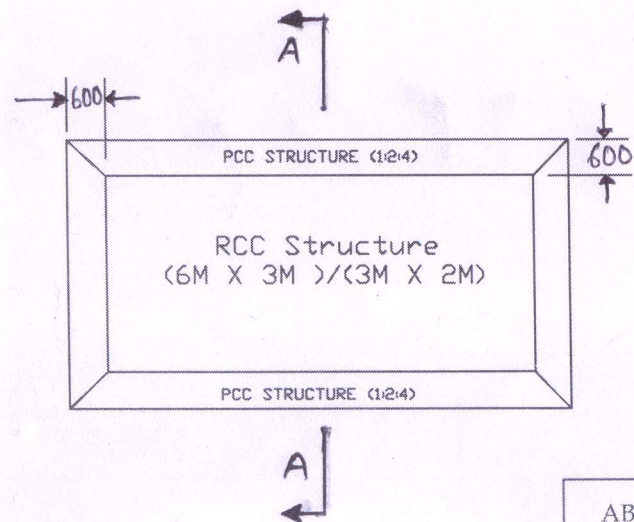




SECTION A-A  
(FOR UNPAVED AREA)



SECTION A-A  
(FOR PAVED AREA)



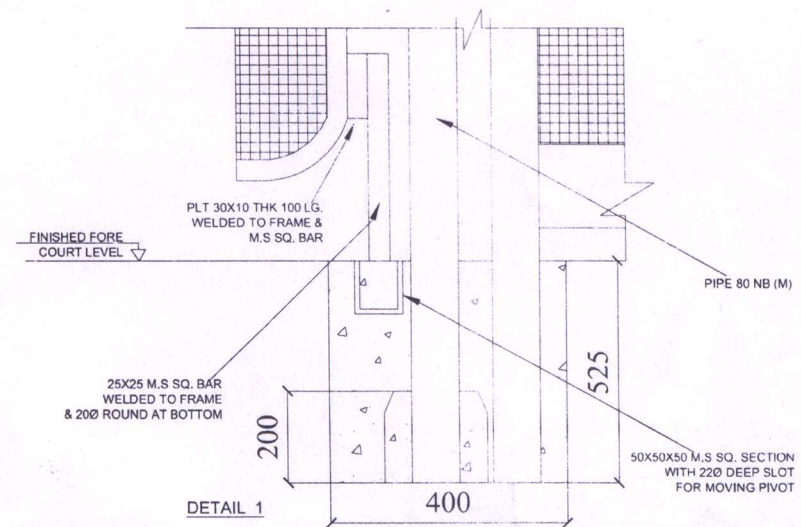
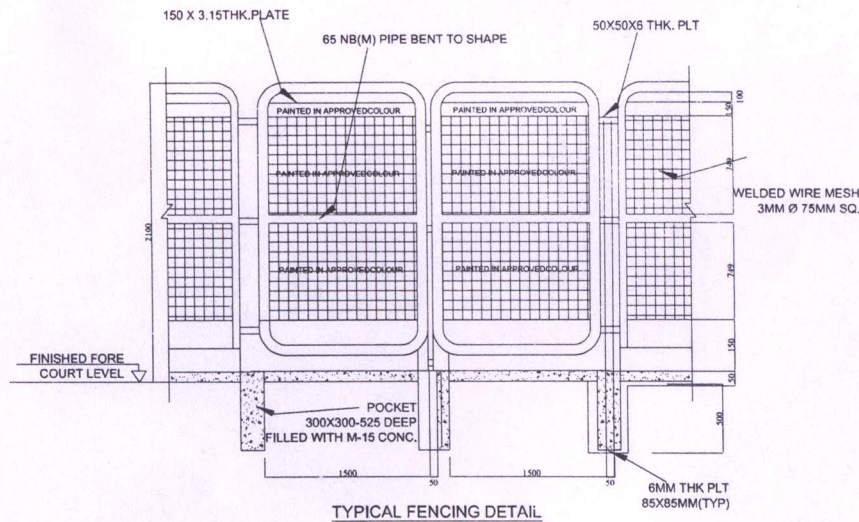
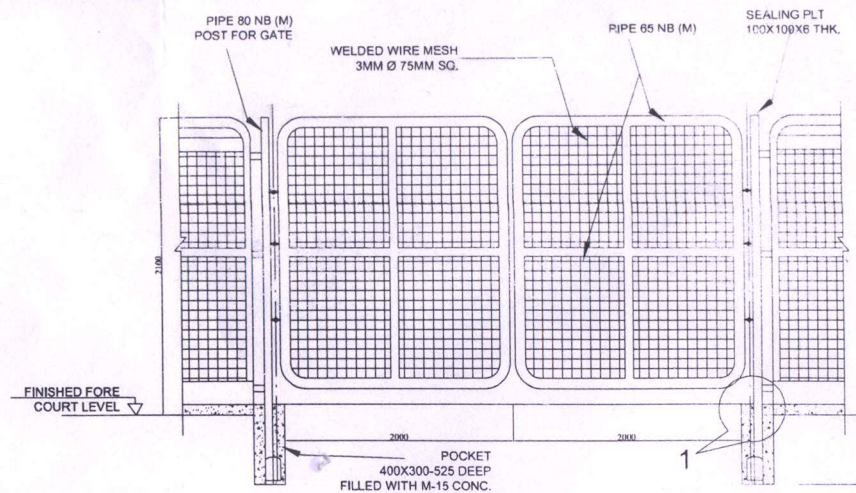
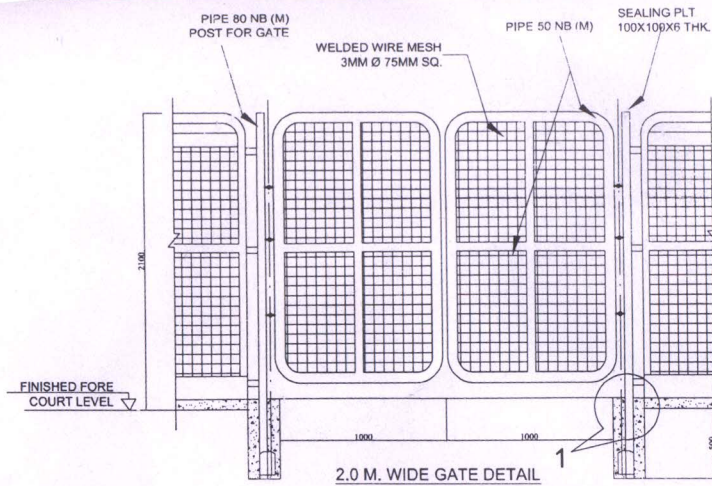
ABOVE GROUND RCC FOUNDATION DRAWING OF MRS / DRS

NOTE :

- 1) ALL DIMENSIONS ARE IN MM.
- 2) DO NOT SCALE THE DRAWING.
- 3) GRADE OF CONCRETE SHALL BE M - 15
- 4) REINFORCED CEMENT CONCRETE SHALL BE M20 WITH 12 MM.

DR.NO: MNG/ENG/DN-14





TITLE:-

TYPICAL DETAIL OF GATE & FENCING  
(2100 MM HIGH)

DRA. NO.: MNG/L/PNG/DN-16

DSGN:

DRWN:

CHKD. & VERIFIED:

APPROVED:



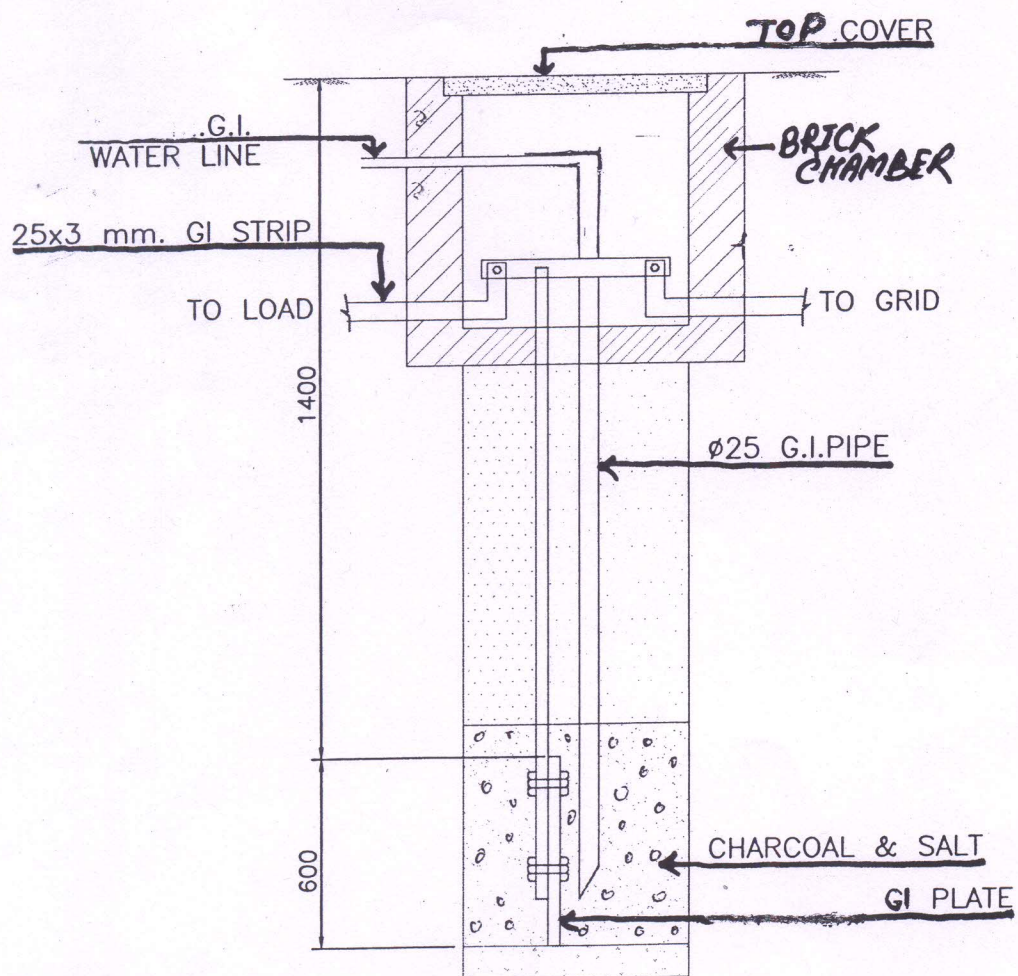
MAHARASTRA NATURAL  
GAS LIMITED

CNG & CITY GAS DISTRUBUTION NETWORK PUNE

NORTH

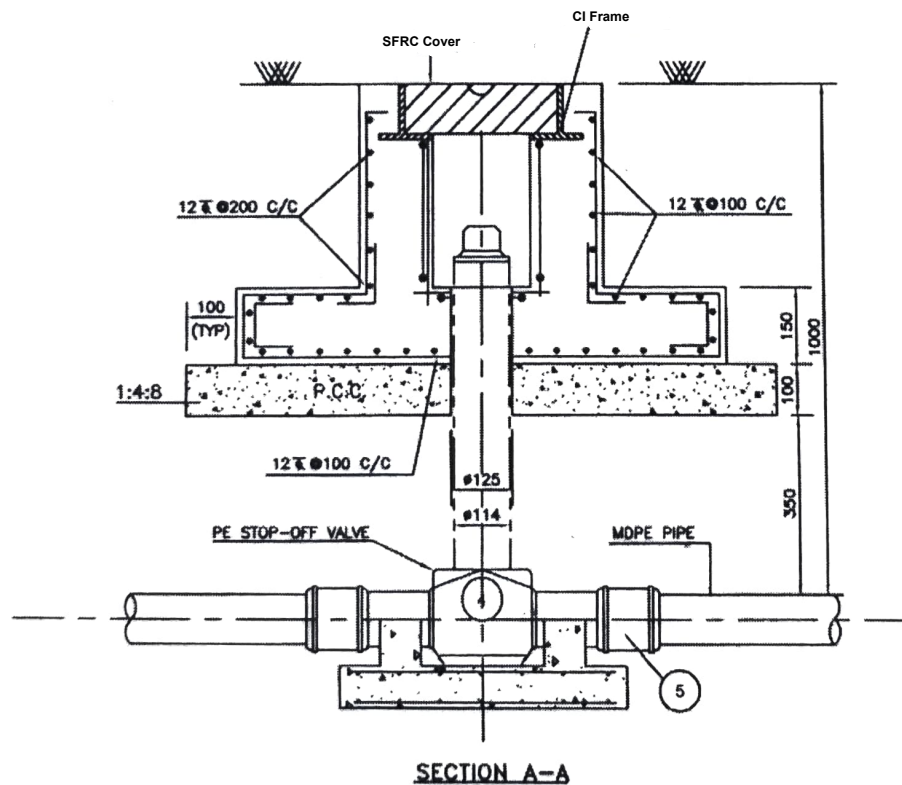
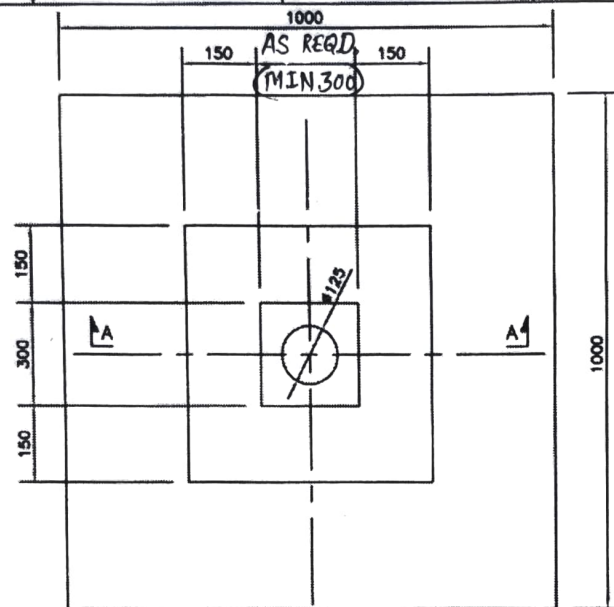
DATE





## PLATE EARTHING PIT

DRAWING NO: MNG/ING/DN-15

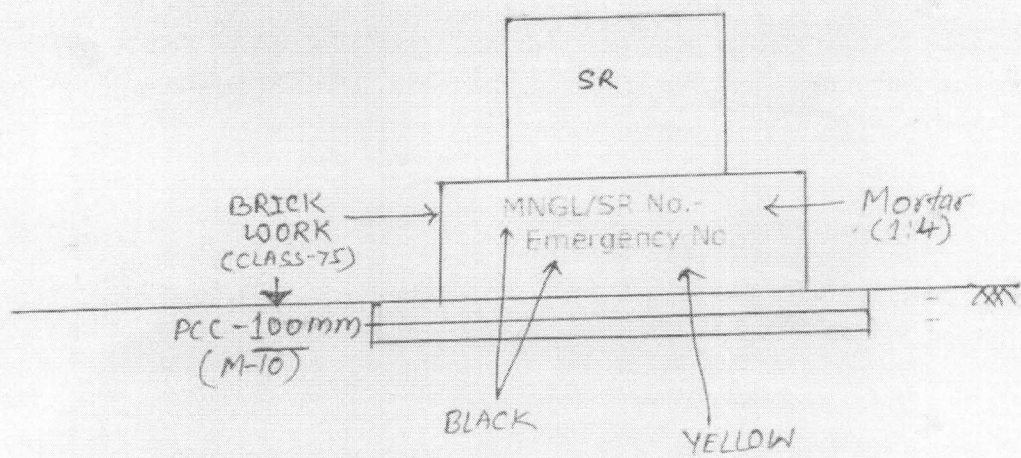


#### NOTES -

1. ALL DIMENSIONS ARE IN MM.
2. THE CONCRETE SHALL HAVE A CHARACTERISTIC STRENGTH OF 20 N/MM<sup>2</sup>
3. THE COVER FOR REINFORCEMENT SHALL BE 50 MM ON OUTER FACES AND 50 MM ON INNER FACE.
4. THE SFRC COVER SHALL HAVE REINFORCED CONCRETE OF GRADE M-35 CONFORMING TO IS:456-1978.
5. DEBRIS BACKFILL TO BE REMOVED & GOOD EARTH TO BE FILLED IN AREA OF 1.5 M x 1.5 M WITH PROPER COMPACTION AND CONSOLIDATION BY WATER.
6. GASKET OF RUBBER OR ANY OTHER EQUIVALENT MATERIAL OF MATCHING DIMENSIONS SHALL BE SUPPLIED & USED BY THE CONTRACTOR TO PREVENT INGRESS OF WATER INTO THE VALVE PIT.
7. 75mm THICK PCC(1:2:4) OF DIMENSION 300mm X 300mm FOR VALVE OF SIZES FROM 63mm TO 125mm SHOULD BE PROVIDED FOR SUPPORTING THE PE STOP OFF VALVE AT THE BASE.
8. RUBBER SHEET OF MIN. 6mm THICK SHOULD BE PROVIDED BETWEEN BASE OF THE VALVE AND PCC TOP SURFACE.
9. Dimensions(Length X Width) of SRFC Cover-
  - a) With Purge SOV- 600 mm X 600 mm
  - b) No Purge SOV- 300 mm X 300 mm

MAHARASHTRA NATURAL GAS LIMITED				
DRAWN BY	DATE:	TITLE -		
PLNG	06/05/04	RCC PIT FOR PE STOP-OFF VALVE(63 TO 125 mm)		
CHECKED BY	DATE:			
APPRO. BY	DATE:	DRAWING NO:	REV.	
		MNGL/ENG/CIVIL/10A	0	

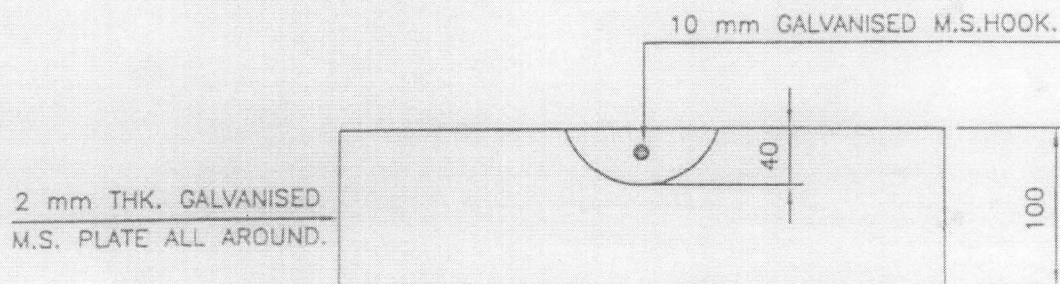
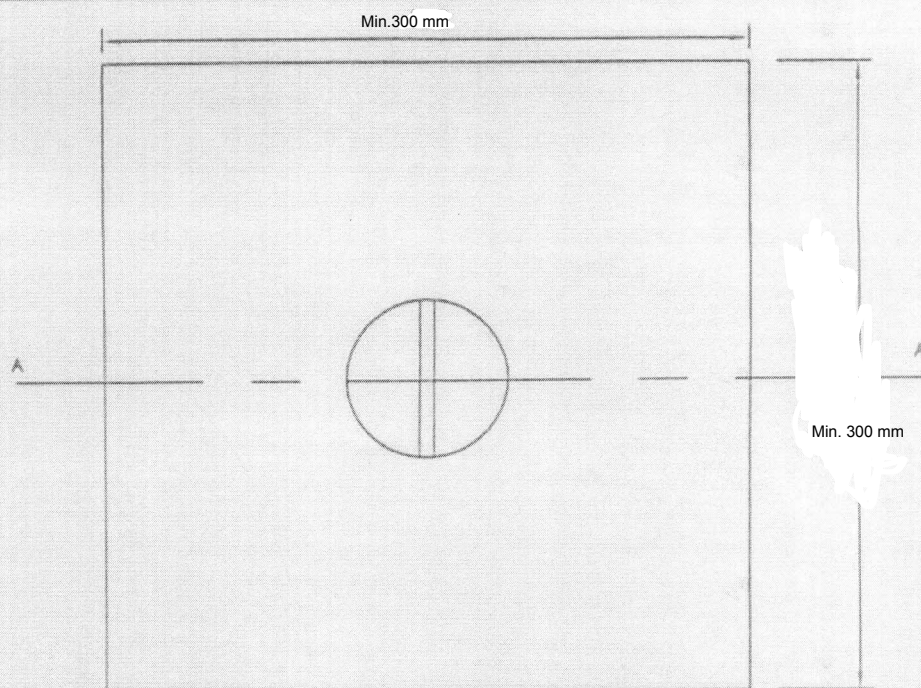




SR INSTALLATION

THIS PRINT IS THE PROPERTY OF MAHARASHTRA GAS LTD. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS SENT AND MUST NOT BE USED IN ANY WAY PERTINENT TO THE INTEREST OF THIS COMPANY AND IS SUBJECT TO RETURN ON DEMAND.

PLANNING.	REV NO.	DATE.	DESCRIPTION	BY.	CHK.	APPR.
	0	06.05.04		PLNG		



### SECTION A-A

#### NOTE:-

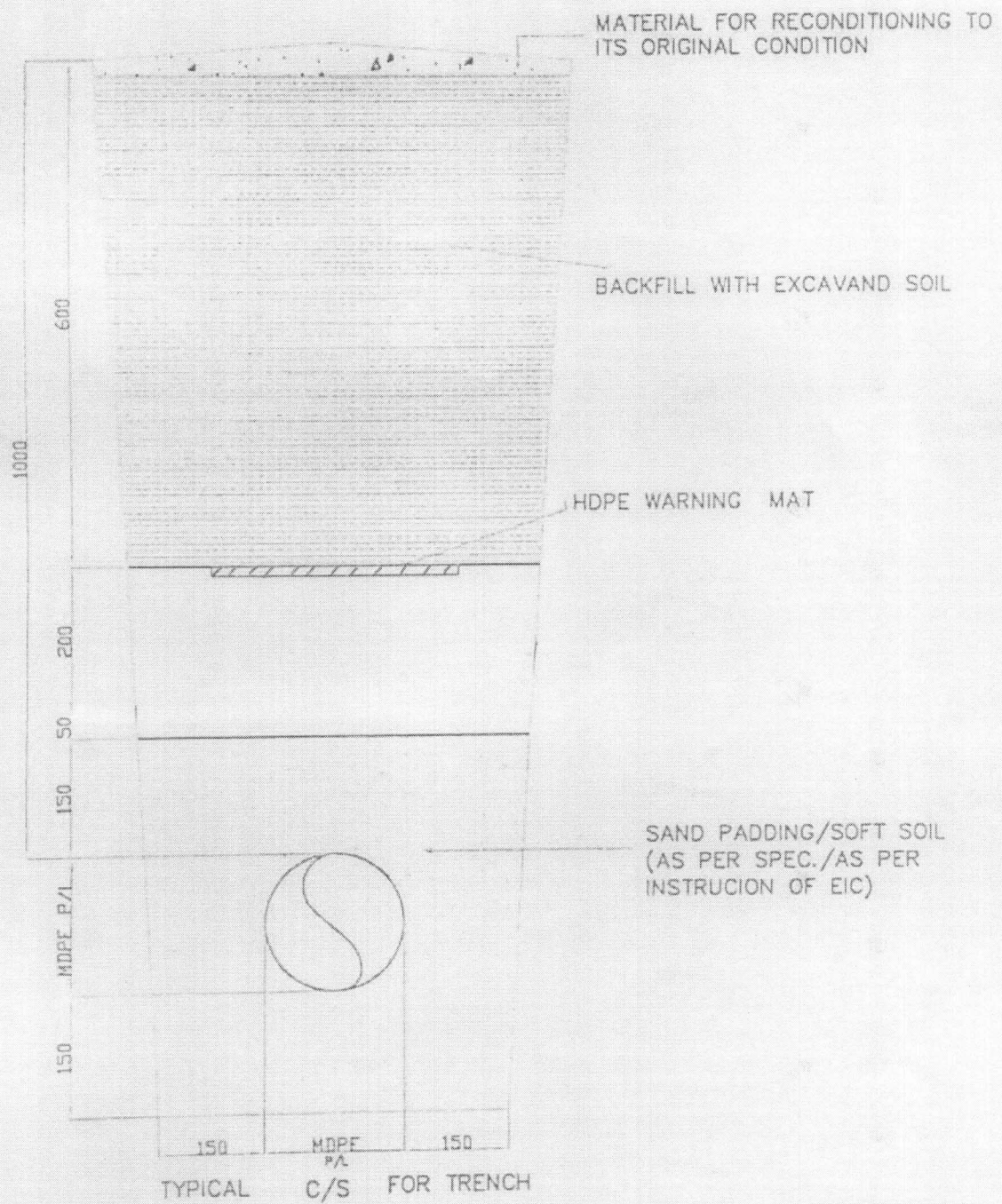
1. ALL DIMENSIONS ARE IN MM.
2. THE SFRC COVER SHALL HAVE REINFORCED CONCRET OF GRADE M-35 CONFORMING TO IS:456-1978.
3. HEAVY LOAD TEST : SUITABLE FOR 'A' CLASS LOADING
4. PERFORMANCE REQUIREMENTS-
  - a) SAMPLING AND CRITERIA FOR CONFORMITY: AS PER IS:12592 (Part-1) - 1998
  - b) LOAD TEST: AS PER IS:12592 (Part-1) - 1998
  - c) INSPECTION AND MANUFACTURES GUARANTEE : AS PER IS:12592 (Part-1) - 1998

NOT TO SCALE

MAHARASHTRA NATURAL GAS LIMITED	TITLE : COVER FOR PE STOP OFF VALVE PIT.	DRAWING NO: MNGL/ENG/CIVIL/100	REV.
			0



REINSTATEMENT SPECIFICATION  
TRENCH CROSS SECTION (TYPICAL)  
SINGLE MDPE PIPELINE LAYING



NOTES: -  
1. ALL DIMENSIONS ARE IN MM

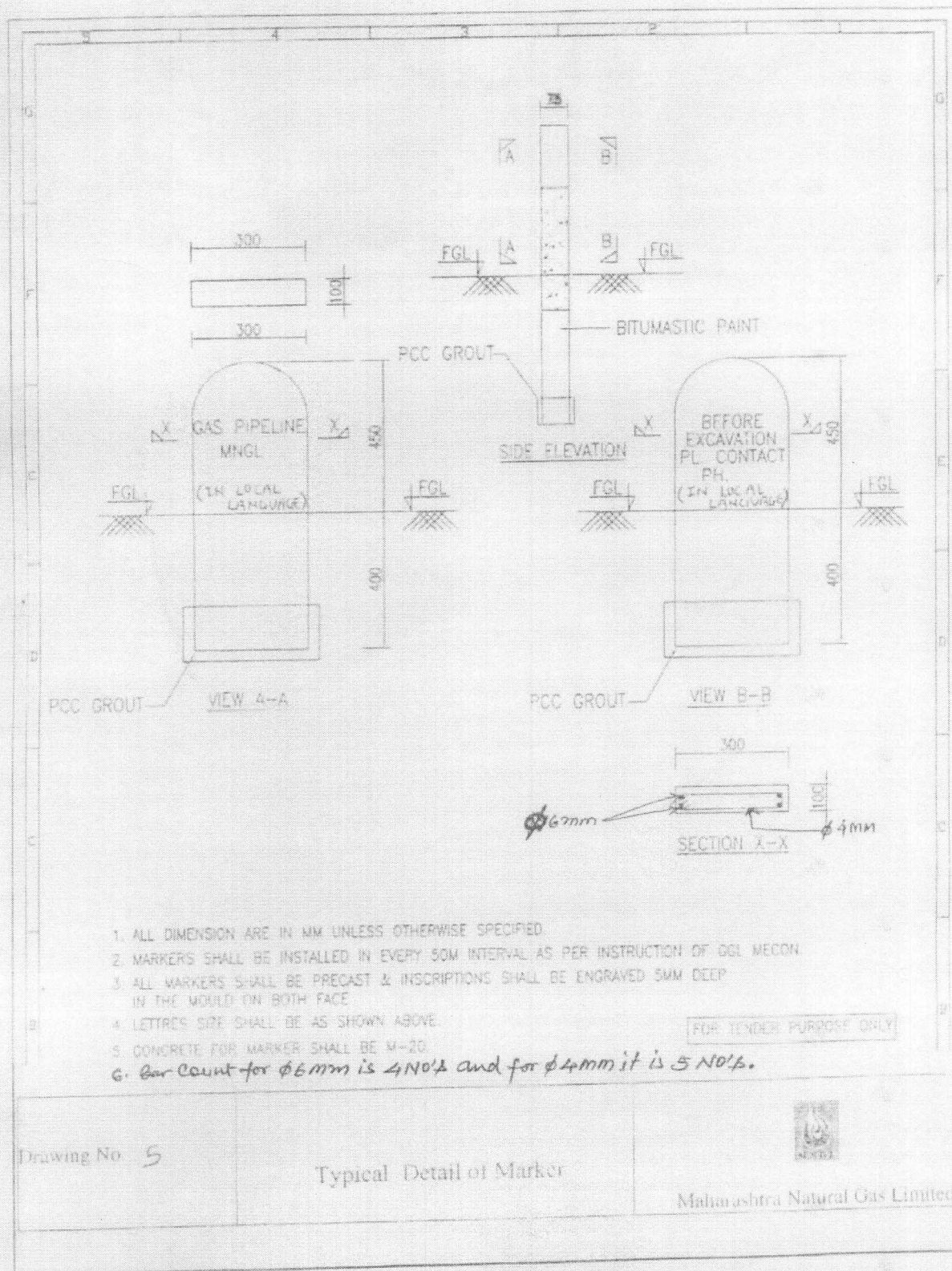
FOR TENDER PURPOSE ONLY

Drawing No. 9

Reinstatement specification  
Trench Cross-section (Typical)  
single MDPE pipeline laying

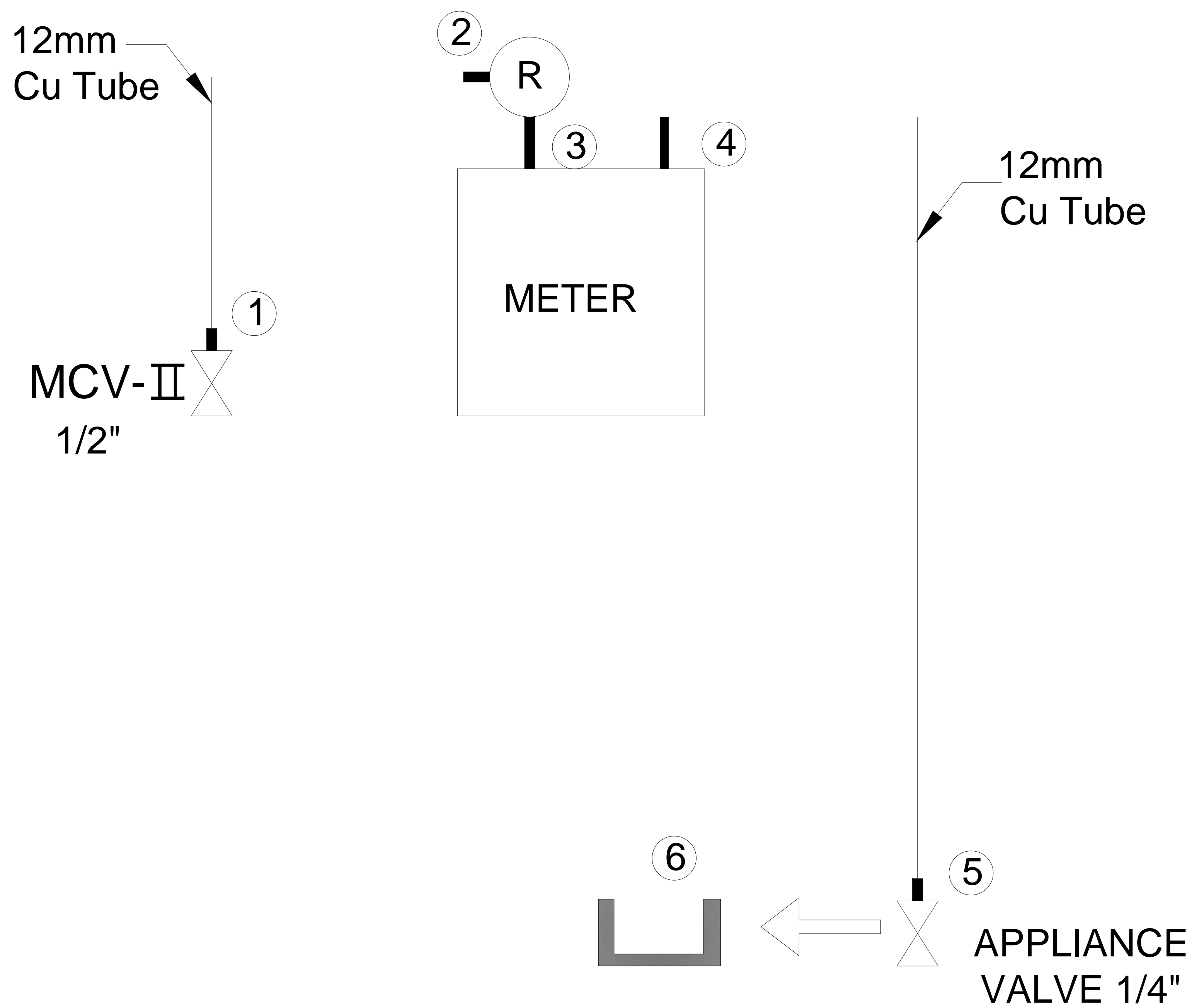
Marashtara natural Gas Limited







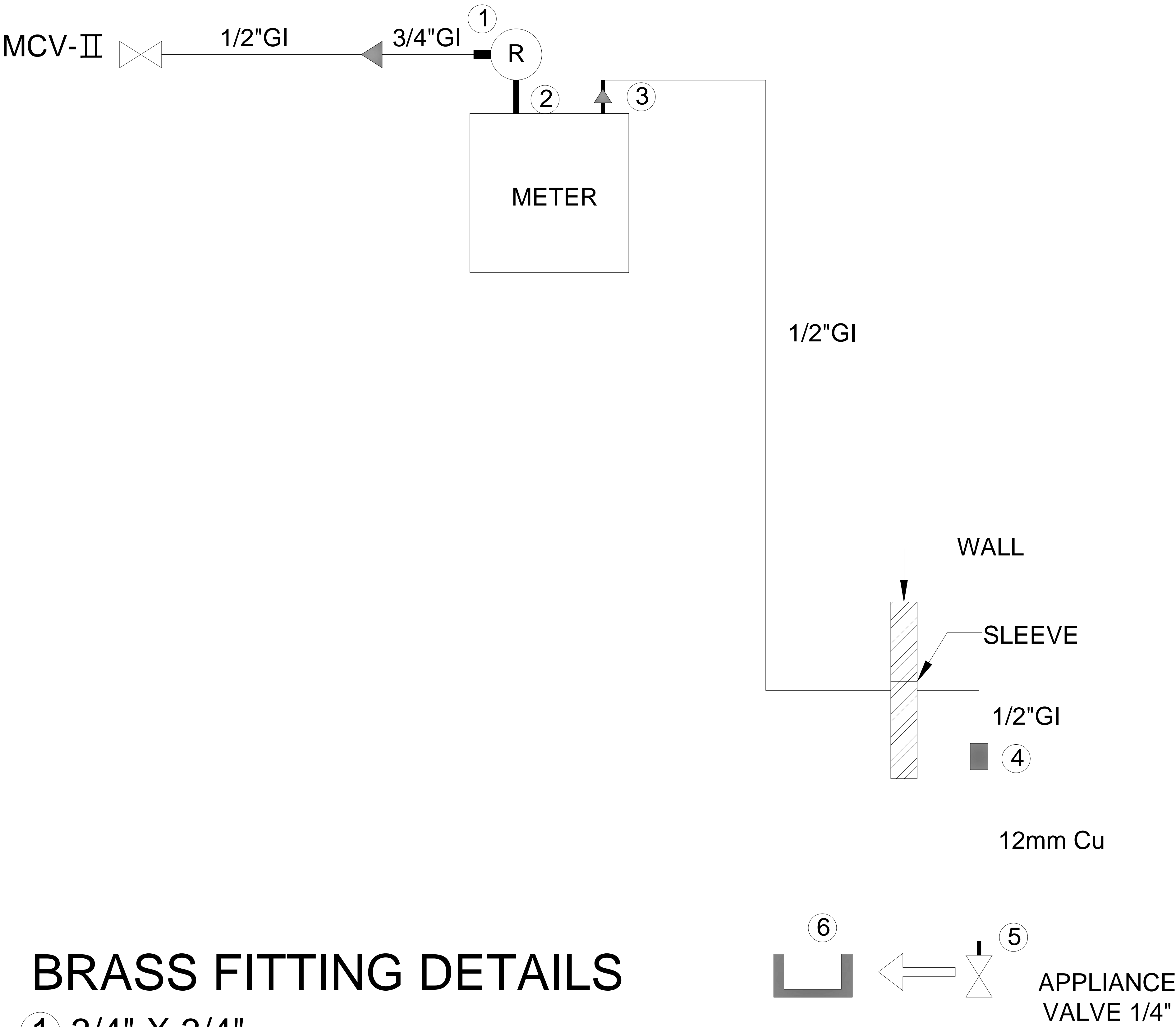
## D - PNG METER WITH Cu



## BRASS FITTING DETAILS

- ① 1/2" X 12mm
- ② 12mm X 3/4"
- ③ 3/4" X 3/4"
- ④ 3/4" X 12mm
- ⑤ 12mm X 1/4"
- ⑥ 12mm end plug

# D - PNG METER WITH GI AND Cu

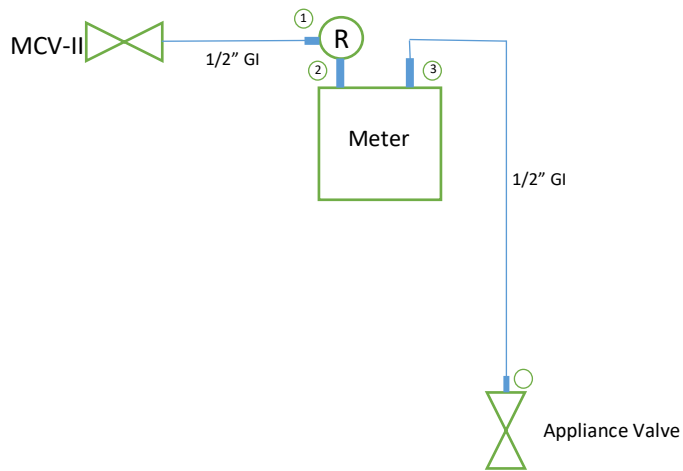


## BRASS FITTING DETAILS

- ① 3/4" X 3/4"
- ② 3/4" X 3/4"
- ③ 3/4" X 3/4"
- ④ 1/2" X 12mm CONNECTOR
- ⑤ 12mm X 1/4"
- ⑥ 12mm end plug



## D-PNG Meter Installation with GI



1.  $\frac{1}{2}$ " X  $\frac{3}{4}$ " Brass Adaptor
2.  $\frac{3}{4}$ " X  $\frac{3}{4}$ " Brass Adaptor
3.  $\frac{1}{2}$ " X  $\frac{3}{4}$ " Brass Adaptor