



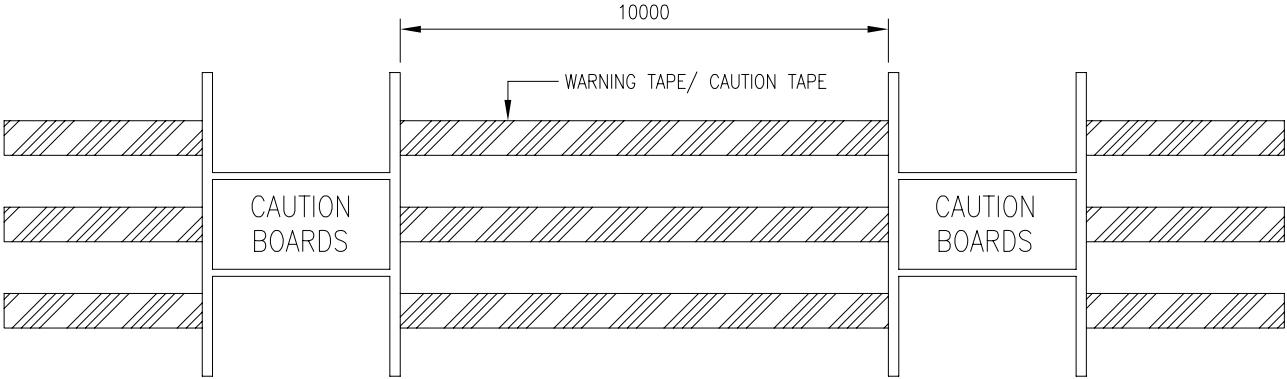
**TECHNICAL SCOPE FOR PE LAYING & DOMESTIC/
COMMERCIAL/ NON-COMMERCIAL/ NDEC/
INDUSTRIAL PNG INSTALLATIONS**

GGL STANDARD DRAWINGS


S. No.	DRAWING DESCRIPTION	DRAWING NO.
6.01	Barricading	GGL-TS/PE-TYP/BARRICADING-001
6.02	Caution Board	GGL-TS/PE-TYP/CAUTION BOARD-002
6.03	Standard Sketch For Trench Cross Section With Pipeline	GGL-TS/PE-TYP/SKE FOR TREN-003
6.04	Typical Trench Dimension For Parallel PE Pipeline	GGL-TS/PE-TYP/TREN DIM-004
6.05	PE RCC Route Marker	GGL-TS/PE-TYP/ROUTE MARKER -025
6.06	Pole Marker With Foundation	GGL-TS/PE-TYP/POLE MARKER-006
6.07	Valve Chamber Pole Marker	GGL-TS/PE-TYP/V/C POLE MARKER-007
6.08	Village Marker	GGL-TS/PE-TYP/VILLAGE MARKER-008
6.09	Typical U/G Cable Crossing Details	GGL-TS/PE-TYP/CABLE CROSSING-009
6.10	Road/Highway Cased Crossing For PE Pipe	GGL-TS/PE-TYP/CASED CROSSING-010
6.11	Specification For Wood Screws For Clamping	GGL-TS/PE-TYP/WOOD SCREWS-011
6.12	Typical Details For GI-PE Transition Fitting	GGL-TS/PE-TYP/GI PE TF-012
6.13	Typical details for 3mm thk PTFE coating brass tool	GGL-TS/PE-TYP/PTFE COATING -013
6.14	Typical Details For GI Clamp	GGL-TS/PE-TYP/GI CLAMP-014
6.15	Typical Details For Meter Adaptor G 1.6	GGL-TS/PE-TYP/ADAPTOR(1.6)-015
6.16	Typical Details For RCC Guard	GGL-TS/PE-TYP/RCC GAURD-016
6.17	Typical Valve Chamber With FRP Cover for PE Network	GGL-TS/PE-TYP/FRP V/C-026
6.18	Typical Service Regulator Foundation Details	GGL-TS/PE-TYP/SERVICE REGULATOR-018
6.19	Schematic Of Ground Connection For Domestic Consumer Connection	GGL-TS/PE-TYP/NG DISTRIBUTION-019
6.20	Typical Domestic Connection Layout of NG Distribution	GGL-TS/PE-TYP/NG DISTRIBUTION-020
6.21	Typical Domestic Connection Layout of NG Distribution	GGL-TS/PE-TYP/NG DISTRIBUTION-021
6.22	Scheme Of Gas Supply To Commercial Consumer	GGL-TS/PE-TYP/COMM CONSUMER-023
6.23	Typical Natural Gas Installation For Commercial Consumers	GGL-TS/PE-TYP/COMM CUSTOMER-024
6.24	Typical Valve Chamber With Sleeper for PE Network	GGL-TS/PE-TYP/SLEEPER V/C-027
6.25	Rubber Hose Clip	GGL-TS/DOMESTIC INSTALLATION-TYP-001
6.26	Safety Bollard for SRM	GGL-TS/PE-TYP/CONC. BOLLARDS-028

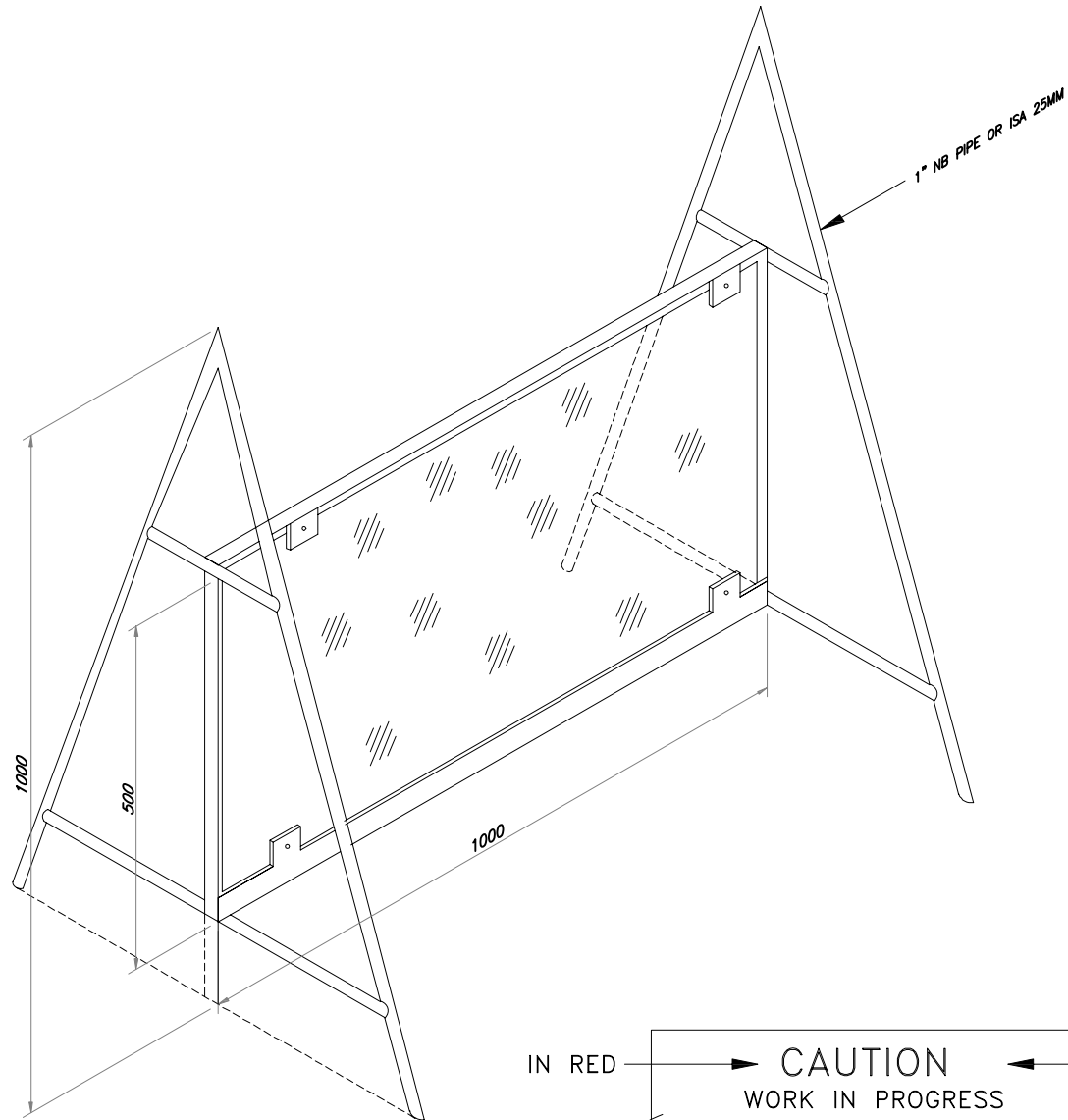
6.27	Typical drawing for Adaptor G6, G10 & G16	GGL-TS/ADAP, G6 G10 G16/TYP-001
6.28	Typical drawing for Adaptor G25	GGL-TS/ADAPTOR G25/TYP-001
6.29	Typical details of RCC Pre-cast Valve Chamber with Frame & Cover	GGL-PE/PNG-DWG-017
6.30	Typical arrangement of Anaconda in Riser With Lateral system	-

- NOTE :-
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
 - 2) FOR DETAILS OF CAUTION BOARDS REFER DRAWING NO. GGL-TS/PE-TYP/CAUTION BOARD-002



SCHEMATIC LAYOUT OF CAUTION BOARDS AND BARRICADING

NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
<div>GUJARAT GAS LIMITED</div> <div>GUJARAT GAS TECHNICAL SERVICES</div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: BARRICADING				
SCALE	SHEET	DRAWING NO.	REV.	
NTS	1 OF 1	GGL-TS/PE-TYP/BARRICADING-001	0	



IN RED

CAUTION
WORK IN PROGRESS


CLIENT'S LOGO

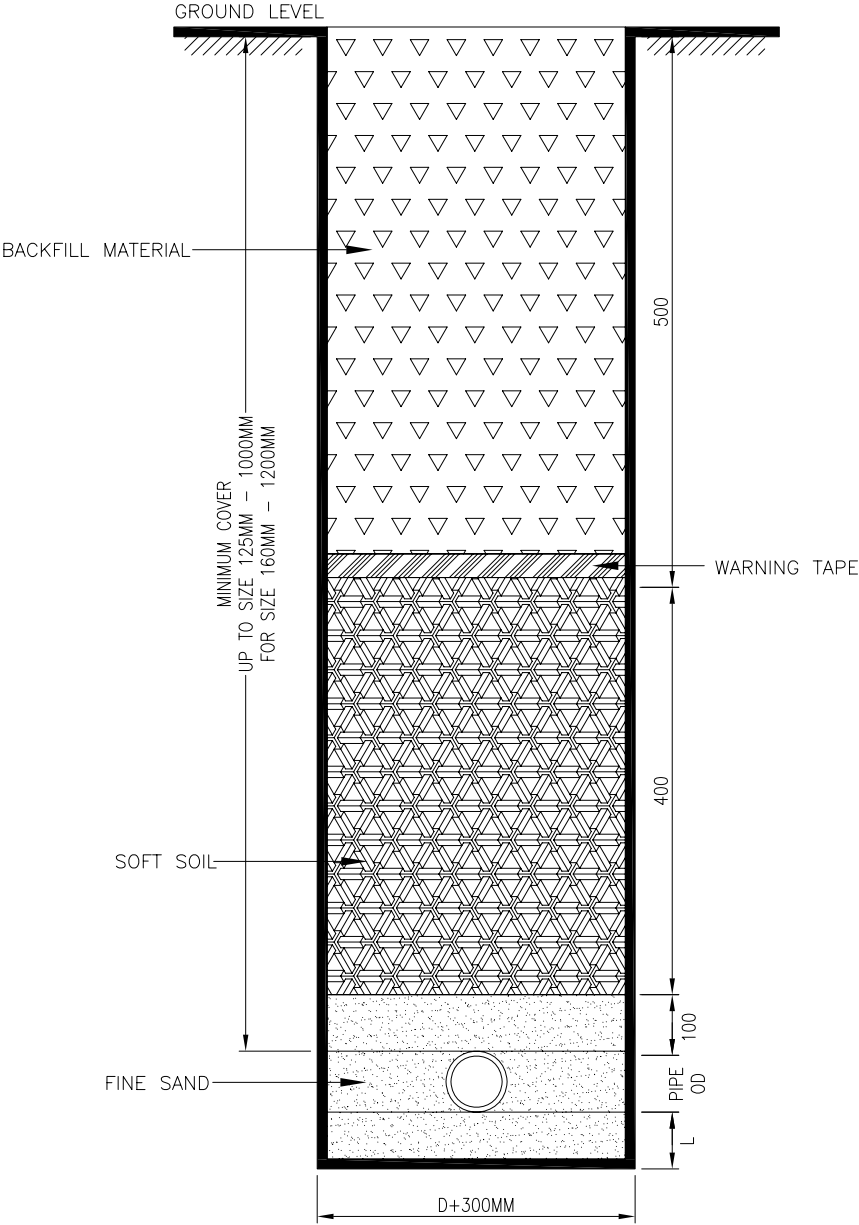
IN BLACK

LAYING OF NATURAL GAS PIPELINE
CLIENT : GUJARAT GAS LIMITED
CONTRACTOR NAME :
DATE OF COMMENCEMENT :
DATE OF COMPLETION :
EMERGENCY PHONE NO :

NOTE :-

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.


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SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
<div><div>GUJARAT GAS LIMITED</div><div>GUJARAT GAS TECHNICAL SERVICES</div></div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: CAUTION BOARD				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/CAUTION BOARD-002		0

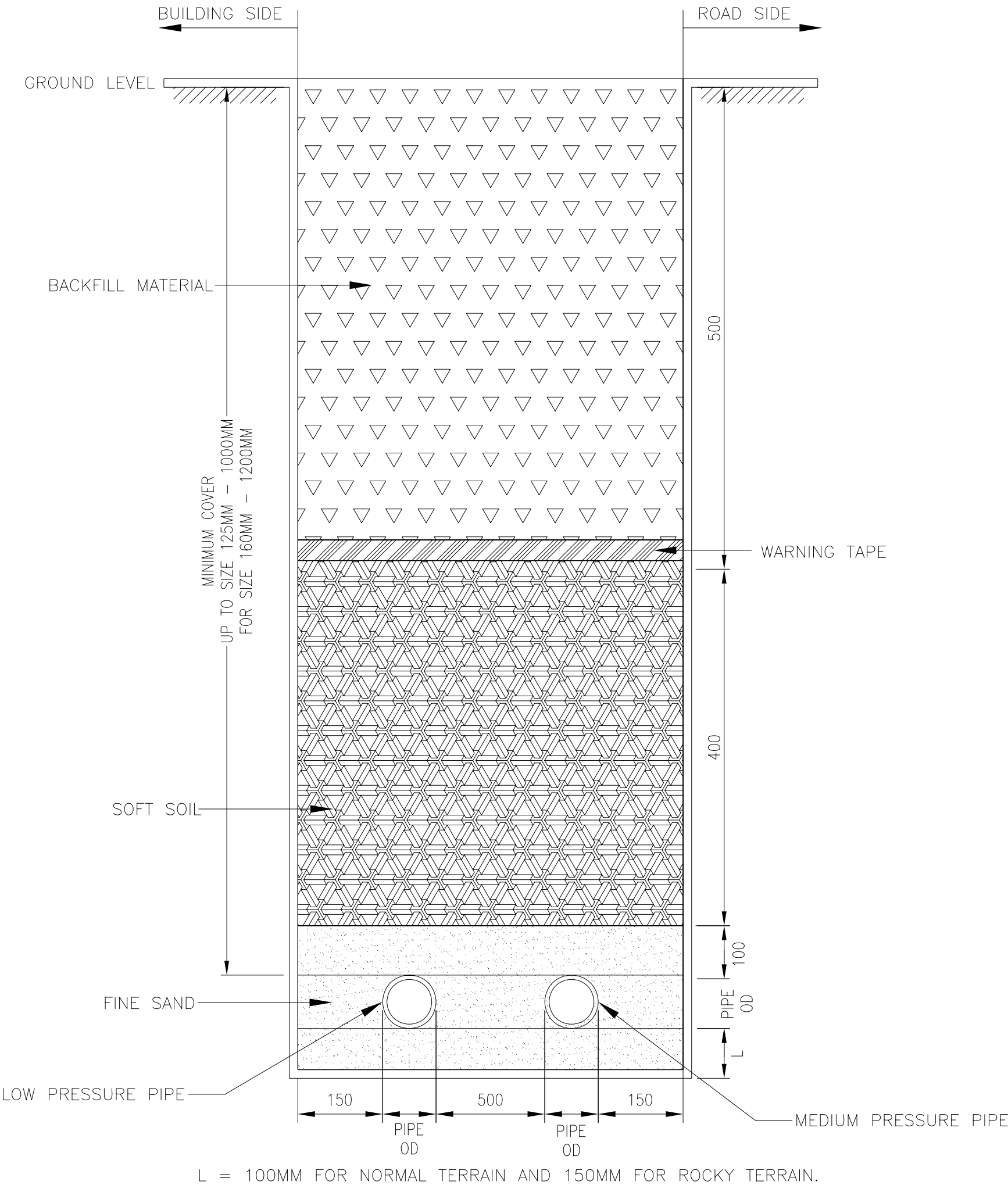


L = 100MM FOR NORMAL TERRAIN AND 150MM FOR ROCKY TERRAIN.

NOTE :-


- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) IN CASE OF ROCKY SURFACE/STONES, SAND PADDING OF 150MM. ALL ROUND TO BE PROVIDED.
- 3) EXTRA COVER REQUIREMENT SHALL BE ESTABLISHED AS PER CONCERNED AUTHORITY REQUIREMENT AND AS PER DIRECTION OF EIC.
- 4) FOR MINIMUM COVER REQUIREMENT AT PIPELINE CROSSING ROAD, RAILWAY, TRACKS, RIVERS MARSHY AREAS ETC. REFER T4S STANDARD.
- 5) REFER PE-PNG GUIDELINE.

NO.	DATE	REVISION	REV.BY.	SIGN.
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SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
<div> GUJARAT GAS LIMITED</div> <div>GUJARAT GAS TECHNICAL SERVICES</div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: STANDARD SKETCH FOR TRENCH CROSS SECTION WITH PE PIPELINE				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/SKE FOR TREN-003		0

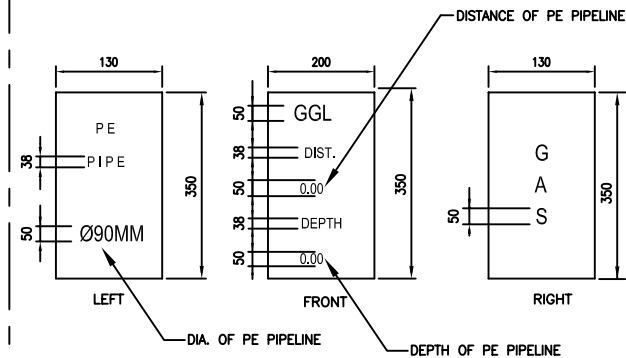
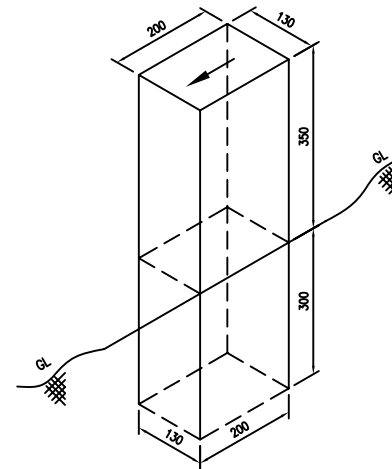
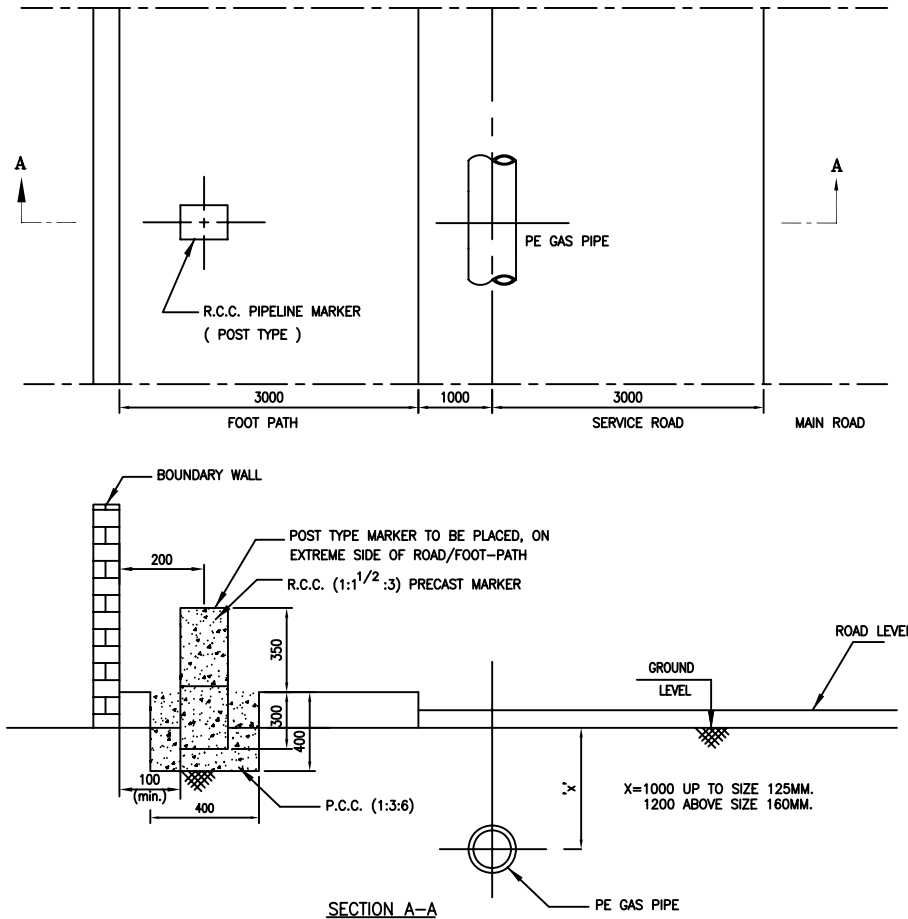


NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) EXTRA COVER REQUIREMENT SHALL BE ESTABLISHED AS PER CONCERNED AUTHORITY REQUIREMENT AND AS PER DIRECTION OF EIC.
- 3) FOR MINIMUM COVER REQUIREMENT AT PIPELINE CROSSING ROAD, RAILWAY, TRACKS, RIVERS MARSHY AREAS ETC. REFER T4S STANDARD.
- 4) IN CASE OF ROCKY SURFACE/STONES, SAND PADDING OF 150MM. ALL ROUND TO BE PROVIDED.
- 5) REFER PE-PNG GUIDELINE.


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SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
<div><div></div><div>GUJARAT GAS LIMITED</div></div> <div><div>GUJARAT GAS</div><div>TECHNICAL SERVICES</div></div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: TYPICAL TRENCH DIMENSION PARALLEL PE PIPELINE				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/TRENCH DIM-004		0

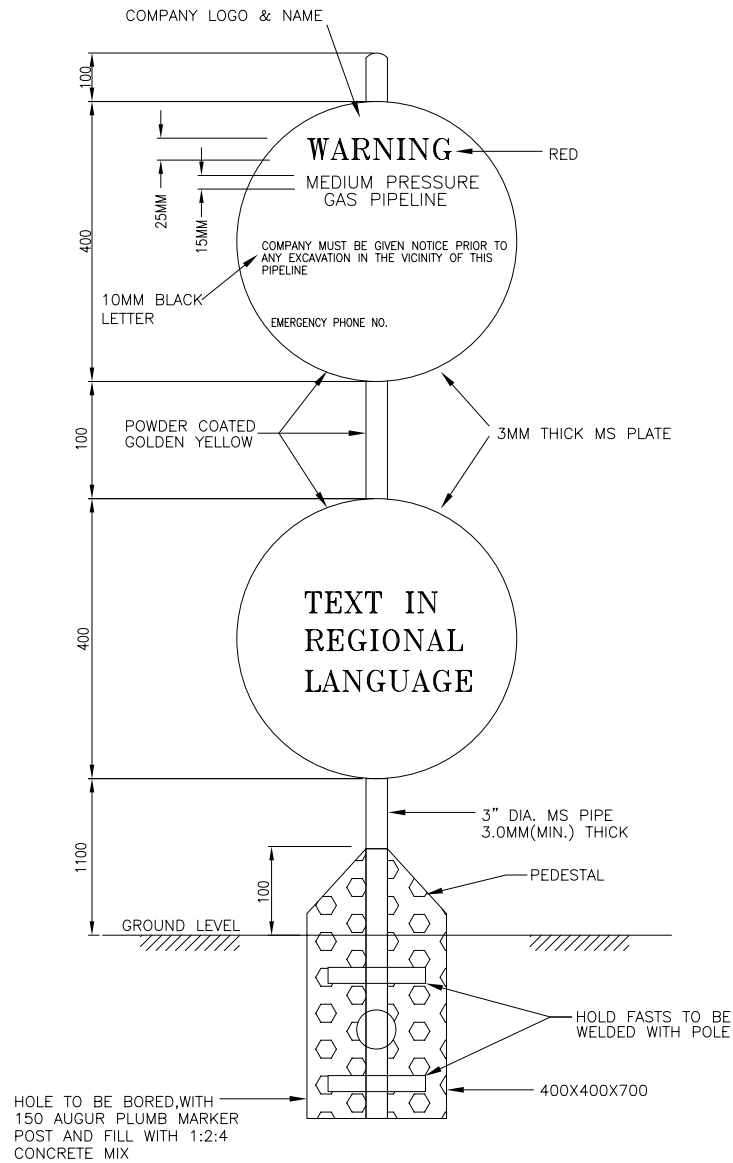
PE ROUTE MARKER



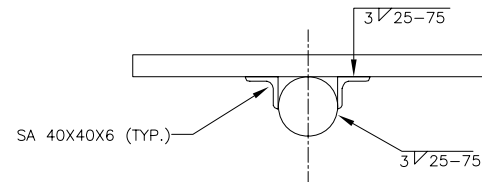
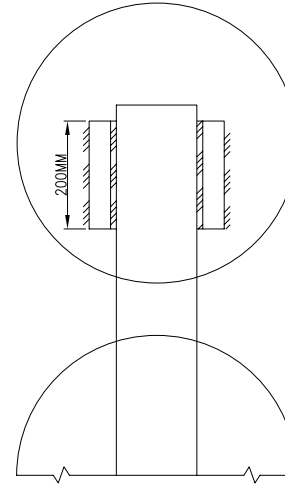
NOTE :-

- 2) * R.C.C. 1:1^{1/2}:3 PRECAST MARKER WITH 6 MM M.S. BAR INCL. EXCAVATION OF SIZE 400 L X 400 H PIT PLACING POST IN POSITION (IN PLUMB) AND REMAINING EXCAVATED PORTION TO BE FILLED. WITH P.C.C. 1:3:6 CURING ETC. COMPLETE EXCESS EARTH SHALL BE SPRADED OUT.

NO.	DATE	REVISION	REV.BY.	SIGN.
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SIGN.				
NAME	AJP	NJA	DL	
DATE	16.11.2016			
FOR	GGL	GGL	GGL	
 GUJARAT GAS LIMITED TECHNICAL SERVICES				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: PE ROUTE MARKER				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/ROUTE MARKER-025		0




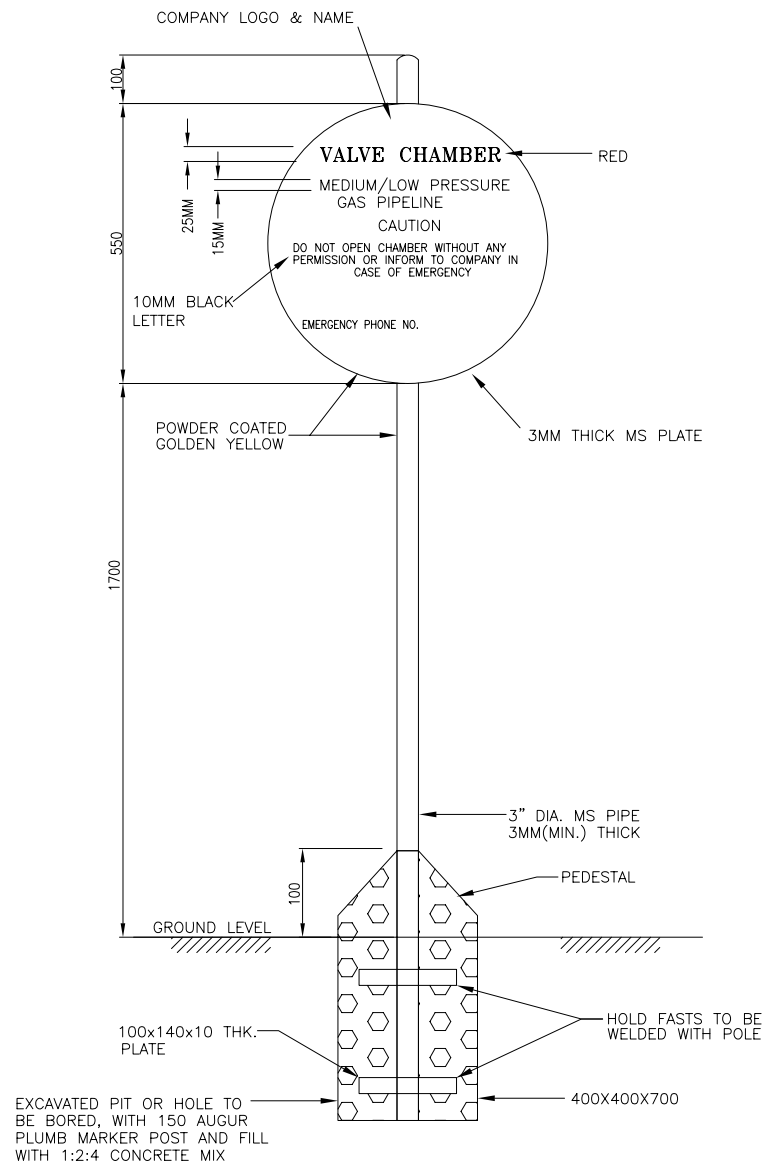
FIXING DETAILS



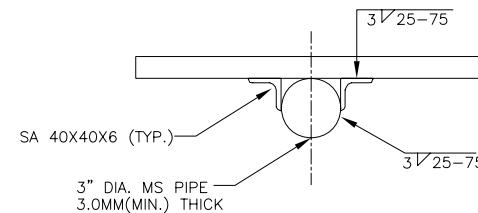
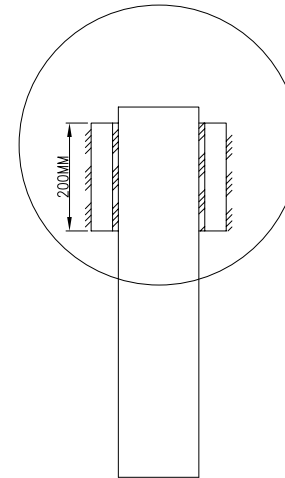
NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
- 2) MARKING AND SIZES ARE ONLY INDICATIVE AND ARE SUBJECT TO THE APPROVAL BY OWNER/OWNER'S REPRESENTATIVE BEFORE FABRICATION.
- 3) SCHEME FOR POWDER COATING AND COLOURING, ONE COAT OF PRIMER & TWO COATS OF SPECIFIED PAINTS. ALL LETTERS EXCEPT "WARNING" TO BE PAINTED BLACK.
- 4) APPROVAL OF WARNING MARKER DESIGN SHALL BE OBTAINED BEFORE THE COMMENCEMENT OF WORK.
- 5) UNDERGROUND STEEL STRUCTURE EXCEPT THAT EMBEDDED IN CONCRETE COAL TAR EPOXY MIN 300 MICRON THK.
- 6) COLOUR SCHEME FOR GUJARAT GAS LTD. MONOGRAM SHALL BE AS DIRECTED BY COMPANY.
- 7) SIGN PLATE IN REGIONAL LANGUAGE SHALL BE PREPARED BY CONTRACTOR ON SIMILAR LINES AND APPROVED BY ENGG. IN CHARGE.

NO.	DATE	REVISION	REV.BY.	SIGN.	
	PREPARED BY	CHECKED BY	APPROVED BY		
SIGN.					
NAME	AJP	NJA	DL		
DATE	11.08.2017				
FOR	GGL	GGL	GGL		
 GUJARAT GAS LIMITED GUJARAT GAS TECHNICAL SERVICES					
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION					
PROJECT NAME: TYPICAL DRAWING					
TITLE: POLE MARKER WITH FOUNDATION FOR PE PIPELINE					
SCALE	SHEET	DRAWING NO.	REV.		
NTS	1 OF 1	GGL-TS/PE-TYP/POLE MARKER-006	0		




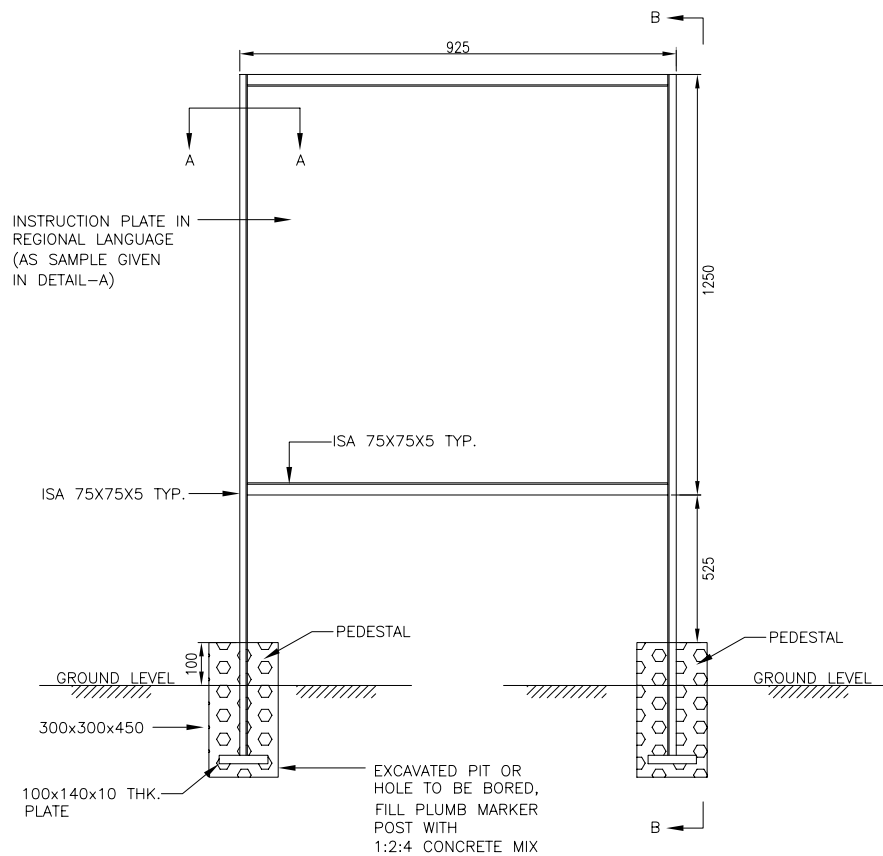
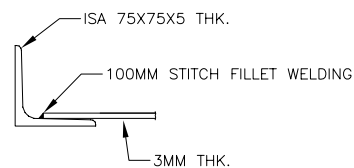
FIXING DETAILS



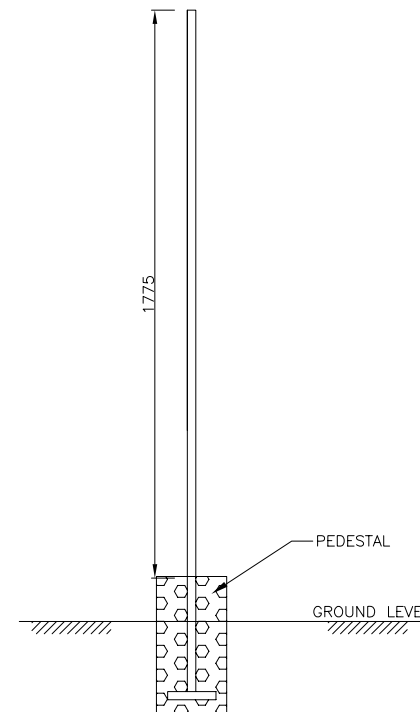
NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) MARKING AND SIZES ARE ONLY INDICATIVE AND ARE SUBJECT TO THE APPROVAL BY OWNER/OWNER'S REPRESENTATIVE BEFORE FABRICATION.
- 3) SCHEME FOR POWDER COATING AND COLOURING, ONE COAT OF PRIMER & TWO COATS OF SPECIFIED PAINTS. ALL LETTERS EXCEPT 'VALVE CHAMBER' TO BE PAINTED BLACK.
- 4) APPROVAL OF MARKER DESIGN SHALL BE OBTAINED BEFORE THE COMMENCEMENT OF WORK.
- 5) ALL TEXT SHOULD BE WRITTEN ON REGIONAL LANGUAGE ONLY.
- 6) UNDERGROUND STEEL STRUCTURE EXCEPT THAT EMBEDDED IN CONCRETE COAT TAR EPOXY MIN 300 MICRON THK.
- 7) COLOUR SCHEME FOR GUJARAT GAS LTD. MONOGRAM SHALL BE AS DIRECTED BY COMPANY.

NO.	DATE	REVISION	REV.BY.	SIGN.	
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SIGN.					
NAME	AJP	NJA	DL		
DATE	11.08.2017				
FOR	GGL	GGL	GGL		
 GUJARAT GAS LIMITED GUJARAT GAS TECHNICAL SERVICES					
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION					
PROJECT NAME: TYPICAL DRAWING					
TITLE: VALVE CHAMBER POLE MARKER					
SCALE	SHEET	DRAWING NO.			REV.
NTS	1 OF 1	GGL-TS/PE-TYP/V/C POLE MARKER-007			0


ELEVATION

SECTION A-A

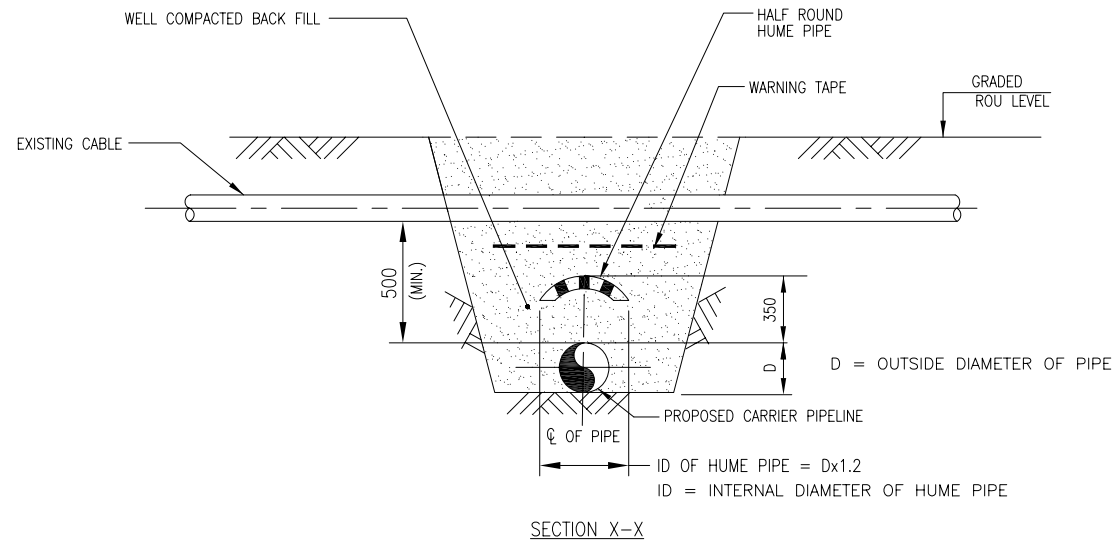
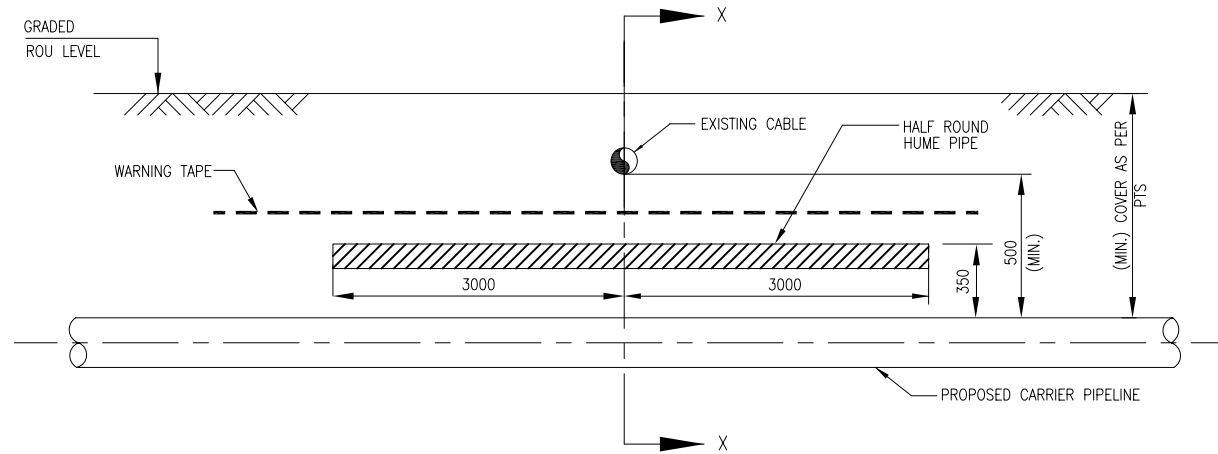


SECTION B-B

- NOTE :-**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
 - 2) SCHEME OF PAINTING & COLORING.
 - A) UNDERGROUND STEEL STRUCTURE (EXCEPT THAT EMBEDDED IN CONCRETE) COAL TAR EPOXY MIN. 300 MICRO THK.
 - B) ABOVE GROUND STEEL STRUCTURE : ONE COAT OF PRIMER & TWO COATS SPECIFIED COLOR PAINT.
 - C) COLOR SCHEME FOR XYZ PIPELINE CO. MONOGRAM SHALL BE AS DIRECTED BY OWNER.
 - D) POST SHALL BE PAINT WITH 250 WIDE ALTERNATE BANDS OF BLACK AND WHITE PAINT.
 - E) ALL OTHER ABOVEGROUND STEEL SHALL BE PAINTED YELLOW.
 - 3) THE LOCATION OF VILLAGE MARKER SHALL BE FINALIZED AND INSTALLED AS DIRECTED BY OWNER.
 - 4) THE FOUNDATION SHALL BE MADE OF CONCRETE M20.
 - 5) INSTRUCTION ON VILLAGE MARKER IN REGIONAL LANGUAGE SHALL BE PREPARED BY CONTRACTOR ON SIMILAR LINES AND APPROVED BY THE OWNER AS GIVEN IN THE DRAWING.
 - 6) ALL WELD SHALL BE 4MM.


NO.	DATE	REVISION	REV.BY.	SIGN.	
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SIGN.					
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DATE	11.08.2017				
FOR	GGL	GGL	GGL		
 GUJARAT GAS LIMITED TECHNICAL SERVICES					
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION					
PROJECT NAME: TYPICAL DRAWING					
TITLE: VILLAGE MARKER					
SCALE	SHEET	DRAWING NO.			REV.
NTS	1 OF 1	GGL-TS/PE-TYP/VILLAGE MARKER-008			0

TYPICAL UNDER GROUND CABLE CROSSING DETAILS

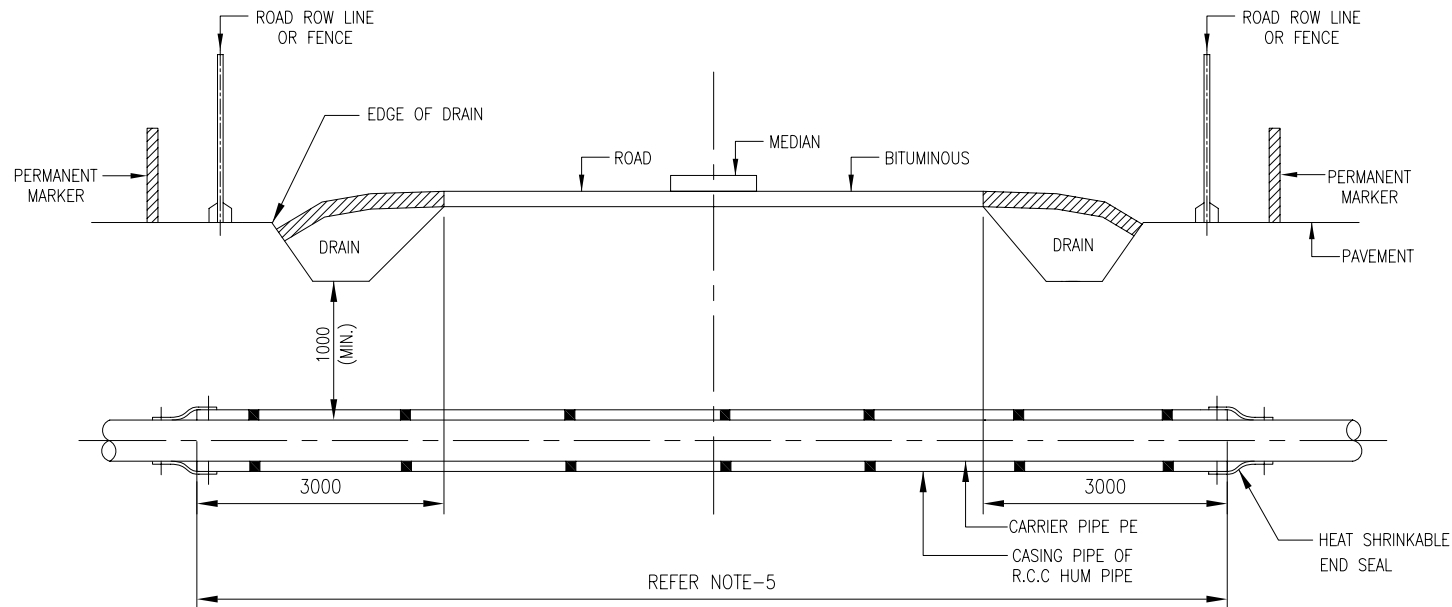


NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) ALL MODIFIED PIPELINE WARNING SIGN SHALL BE INSTALLED CLOSE TO THE CROSSING.
- 3) CROSSING SHALL BE DONE AS PER GGL GUIDELINE AND TO THE SATISFACTION OF CONCERNED AUTHORITIES.

NO.	DATE	REVISION	REV.BY.	SIGN.
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SIGN.				
NAME	AJP	NJA	DL	
DATE	16.11.2016			
FOR	GGL	GGL	GGL	
<div><div>GUJARAT GAS LIMITED</div><div>GUJARAT GAS TECHNICAL SERVICES</div></div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: TYPICAL UNDER GROUND CABLE CROSSING DETAILS				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/CABLE CROSSING-009		0


ROAD/HIGHWAY CROSSING PE PIPELINE
(WITH CASING)

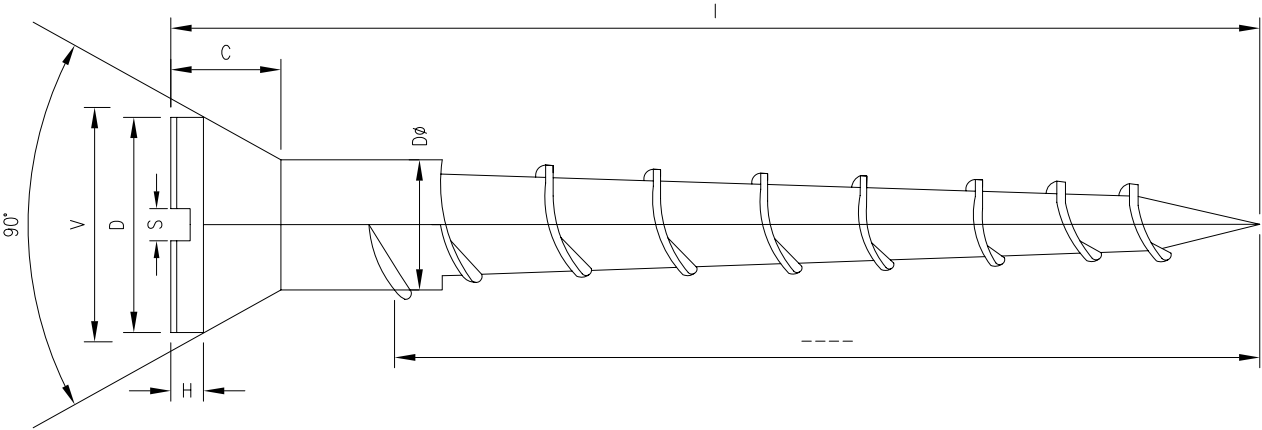


TYPICAL SECTION

NOTE :-


- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) ROAD HIGHWAY CROSSING SHALL BE RESTORED TO ORIGINAL CONDITION TO THE ENTIRE SATISFACTION OF OWNER AND CONCERNED AUTHORITIES HAVING JURISDICTION.
- 3) REFER API RP 1102 FOR OTHER DESIGN AND INSTALLATION REQUIREMENT.
- 4) ANGLE OF INTERSECTION BETWEEN PIPELINE AND THE ROAD/HIGHWAY SHALL BE 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 CROSSING AND PREPARE DETAILED DRAWING FOR INDIVIDUAL CROSSING ENGINEER IN CHARGE APPROVAL BEFORE COMMENCEMENT OF CONSTRUCTION.
- 6) IN CASE OF OPEN CUT USE HUME PIPE AND INCASE OF TRENCHLESS METHOD USE STEEL PIPE OR AS PER AUTHORITY REQUIREMENT. CASING ENDS TO BE CLOSED.
- 7) CASING IS APPLICABLE AS PER AUTHORITY REQUIREMENT.

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DATE	16.11.2016			
FOR	GGL	GGL	GGL	
 <div> <h1>GUJARAT GAS LIMITED</h1> <p>GUJARAT GAS TECHNICAL SERVICES</p> </div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: ROAD/HIGHWAY CASED CROSSING PE PIPELINE				
SCALE	SHEET	DRAWING NO.	REV.	
NTS	1 OF 1	GGL-TS/PE-TYP/CASED CROSSING-010	0	



SCREW NO.	Dø			PITCH	V	D		C	S			H		I
	NOM.	MAX.	MIN.			MAX.	MIN.		MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
7	3.81	3.94	3.68	1.59	8.2	7.62	7.34	2.16	1.27	1.11	1.14	0.84		35

- NOTE :-
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
 - 2) THE DIMENSIONS FOR 'V' ARE THEORETICAL DIAMETER OF HEAD TO SHARP CORNERS AND ARE GIVEN FOR DESIGN PURPOSE ONLY. JURISDICTION.
 - 3) DIMENSIONS TOLERANCE WILL BE AS SPECIFIED IN IS : 6760-1972

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DATE	16.11.2016			
FOR	GGL	GGL	GGL	
<div> GUJARAT GAS LIMITED GUJARAT GAS TECHNICAL SERVICES</div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: SPECIFICATION FOR WOOD SCREWS FOR CLAMPING				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/WOOD SCREWS-011		0

NOTE :-

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

LEGEND:-



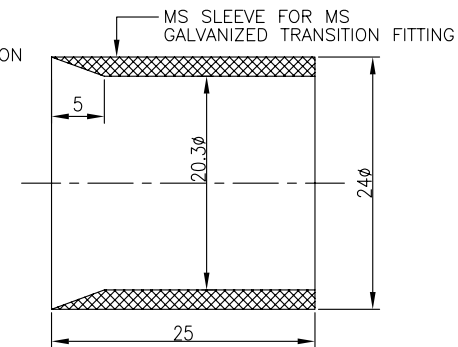
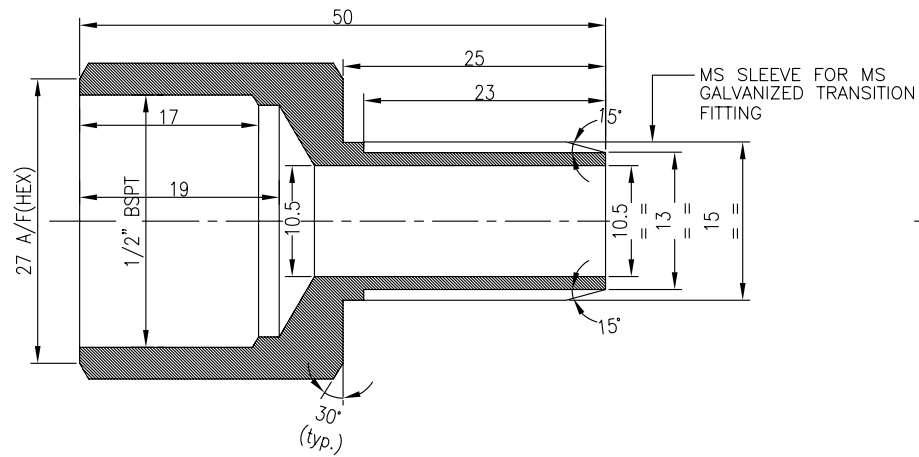
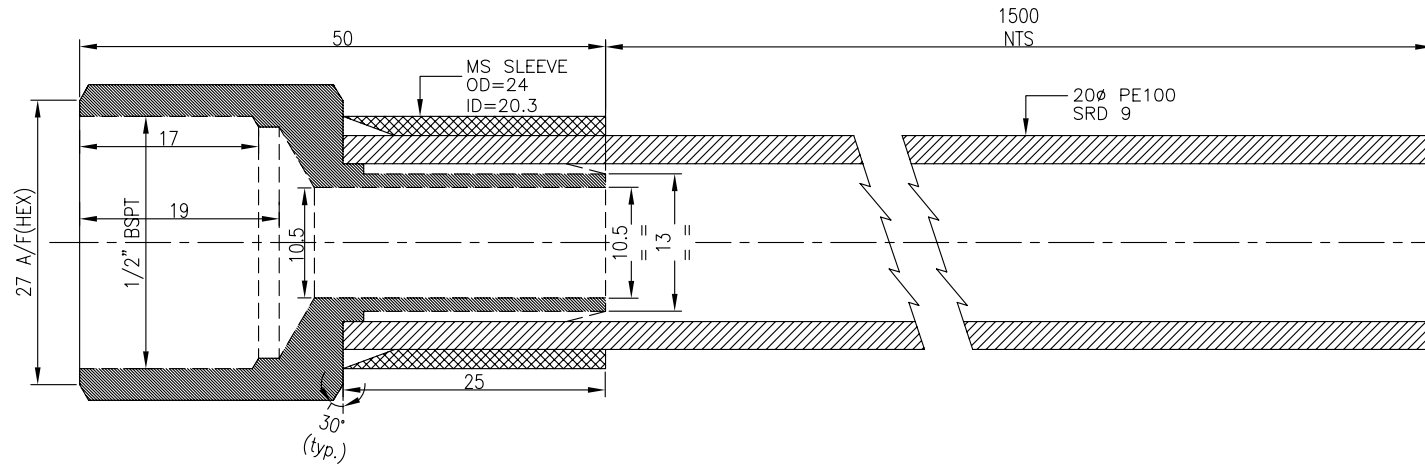
PE PIPE



MS CONNECTOR



MS SLEEVE



NO.	DATE	REVISION	REV.BY.	SIGN.

	PREPARED BY	CHECKED BY	APPROVED BY
SIGN.			
NAME	AJP	NJA	DL
DATE	16.11.2016		
FOR	GGL	GGL	GGL



GUJARAT GAS LIMITED
TECHNICAL SERVICES

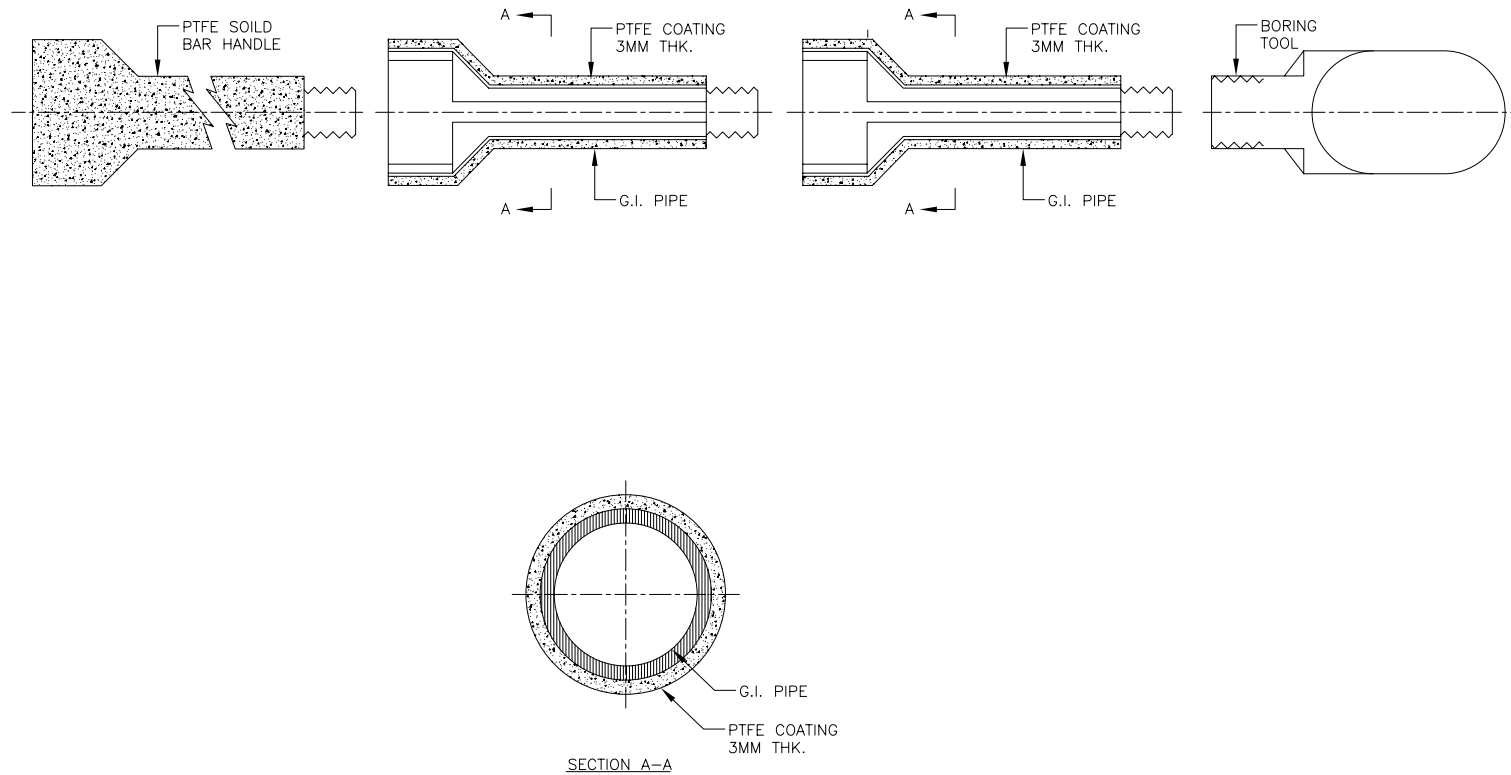
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION


PROJECT NAME: TYPICAL DRAWING

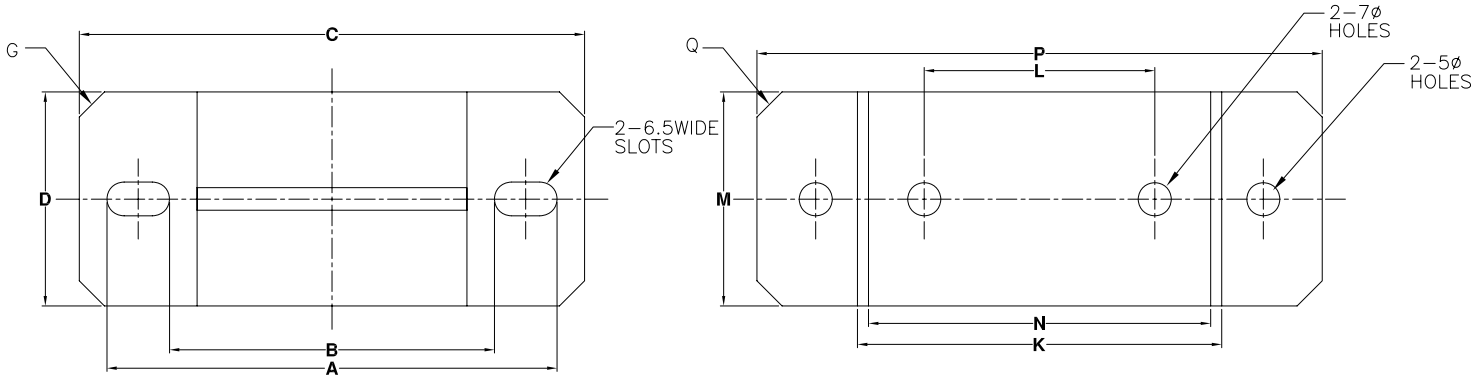
TITLE: TYPICAL DETAILS OF GL_PE TRANSITION FITTINGS

SCALE	SHEET	DRAWING NO.	REV.
NTS	1 OF 1	GGL-TS/PE-TYP/GI PE TF-012	0

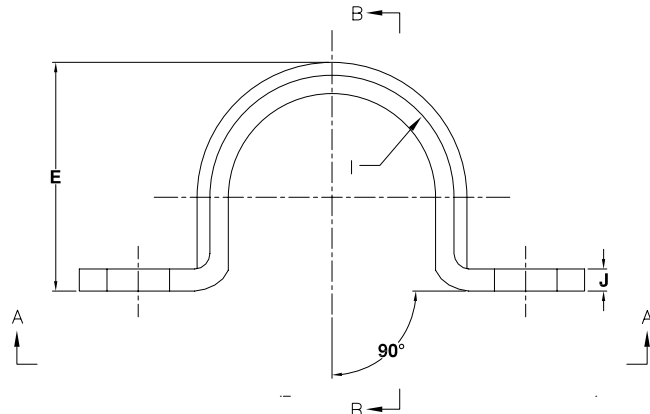
1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.



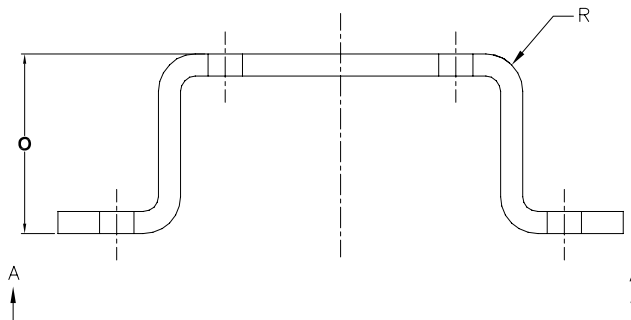
NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
 GUJARAT GAS LIMITED TECHNICAL SERVICES				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: TYPICAL DETAILS FOR 3mm THK PTFE COATING BORING TOOL				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/PTFE COATING-013		0



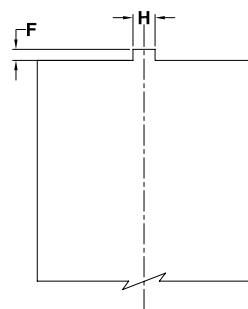
VIEW A-A



PIPE CLAMP TOP



PIPE CLAMP BOTTOM




SECTION B-B

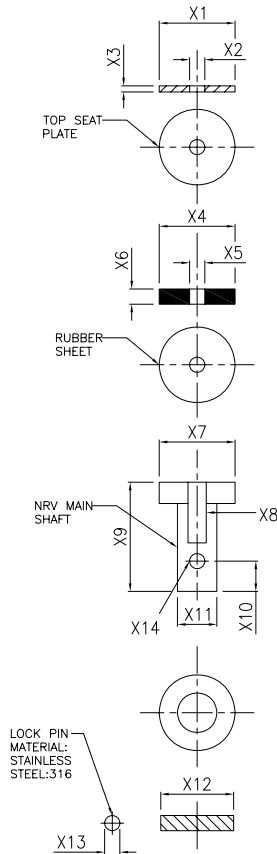
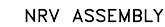
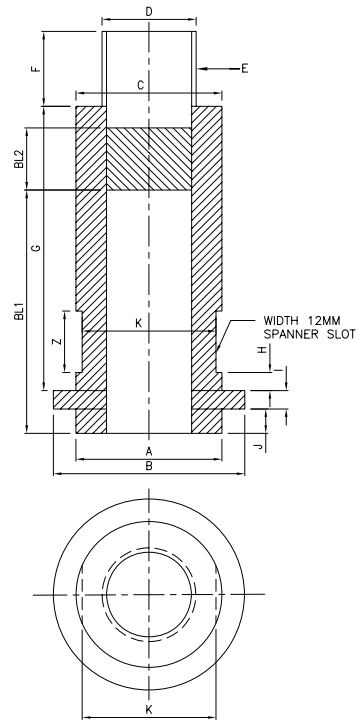
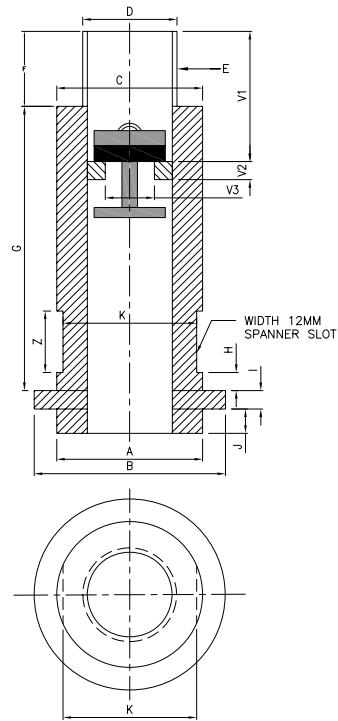
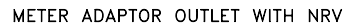
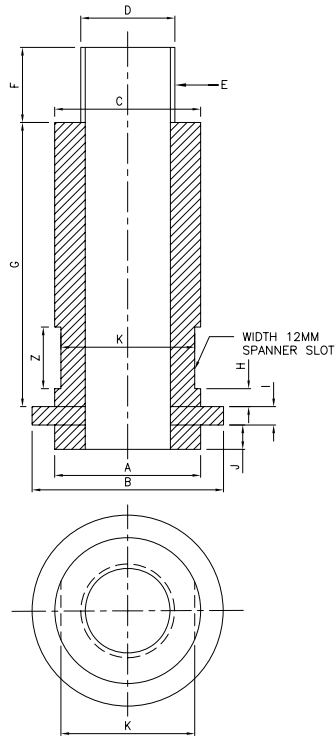
DIMENSION TABLE																		
CLAMP SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1"	66	46	72	15	34	1.2	1.0	2.0	16	1.2	108	56	20	75	25	122	2.0	2.
1/2"	54	34	60	15	22	1.2	1.0	2.0	11.5	1.2	96	44	20	60	25	110	2.0	2.

NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
2) TPI – THREAD PER INCH
3) ALL TOLERANCE ARE $\pm 0.2\text{MM}$, UNLESS SPECIFIED EXPLICITLY.

MATERIAL SPECIFICATION		
PART	MATERIAL	REQUIREMENT
PIPE CLAMP	MILD STEEL	HOT DIP GALVANIZED WITH YELLOW POWDER COATING

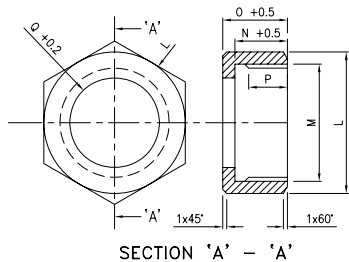
NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
 GUJARAT GAS LIMITED GUJARAT GAS TECHNICAL SERVICES				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: TYPICAL DETAILS FOR GI CLAMP				
SCALE	SHEET	DRAWING NO.		RE
NTS	1 OF 1	GGL-TS/PE-TYP/G.I. CLAMP-014		01



NOTES :-

1. ALL DIMENSIONS ARE IN mm.
2. TPI- THREAD PER INCH.
3. ALL TOLERANCES ARE +/- 0.1mm, UNLESS SPECIFIED EXPLICITLY.
4. ALL FITTINGS ARE AS PER IS:319 WITH HARD CHROME PLATING.
5. 2-3 SAMPLES TO BE SENT AT LABORATORY ONCE IN YEAR FOR PHYSICAL AND CHEMICAL ANALYSIS.

MOC DETAILS			
Sr. No.	PART	MOC	OTHER REC'S
1	ADAPTOR INLET	BRASS (S319)	HARD CHROME PLATING
2	ADAPTOR OUTLET WITH NRV	BRASS (S319)	HARD CHROME PLATING
3	NUT	BRASS (S319)	HARD CHROME PLATING
4	BLIND	MILD STEEL	HOT DIP GALVANIZED + RED POWDER COATING
5	TOP SEAT PLATE	SS316	—
6	RUBBER SHEET	NITRILE	—
7	NRV MAIN SHAFT	ALUMINUM	—
8	LOCK PIN	SS316	—



DOMESTIC METER ADAPTOR - 3/4" BS-746

DIMENSION TABLE

ADAPTOR FOR	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Z	BL1	BL2	V1	V2	V3	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14
G1.6 DOM. METER	21.0	26.6	21.60	14.0	1/2"BSPT	16.0	24.5	4.75	3.0	4.0	19A/F	35	3/4" BS746	13	16	10	22.2	15	19.0	7.0	19.0	4.0	10.0	12.5	2.5	1	12.5	2.5	1.0	12.5	M3x10	18.0	5.0	6.5	12.0	2.5	2.5

NO.	DATE	REVISION	REV.BY.	SIGN.

	PREPARED BY	CHECKED BY	APPROVED BY
SIGN.			
NAME	AJP	NJA	DL
DATE	11.08.2017		
FOR	GGL	GGL	GGL




 **GUJARAT GAS LIMITED**
GUJARAT GAS TECHNICAL SERVICES


TYPICAL DRAWING FOR PIPELINE CONSTRUCTION

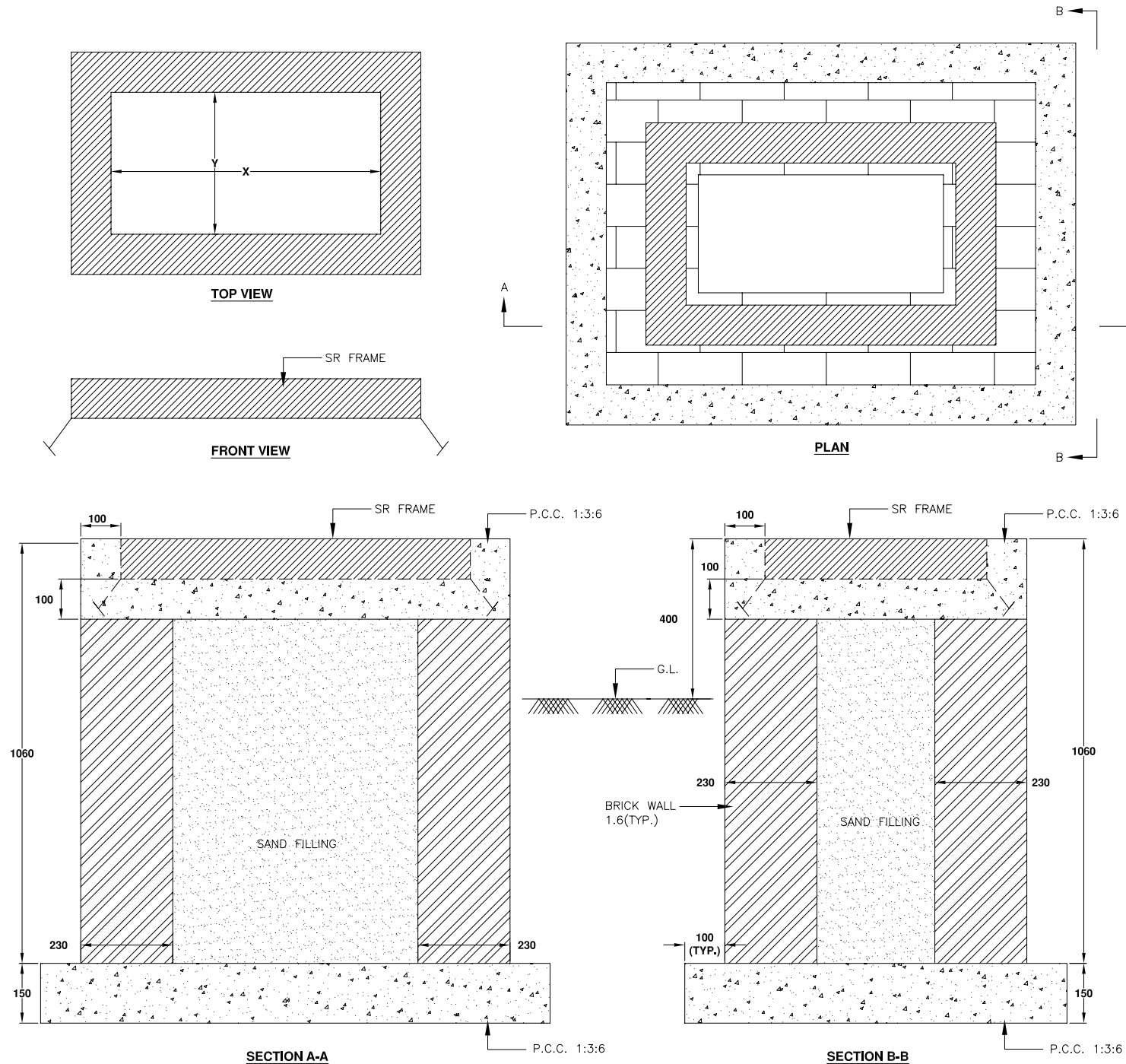
PROJECT NAME: DOMESTIC INTSALLATION

TITLE: TYPICAL ARRANGEMENT OF INLET OUTLET DETAILS
FOR GAS METER ADAPTOR (G1.6) - BS-746

	SCALE	SHEET	DRAWING NO.	REV.
5	NTS	1 OF 1	GGL-TS/PE-TYP/ADAPTOR(G1.6)-015	0

NO.	DATE	REVISION	REV.BY.	SIGN.	
	PREPARED BY	CHECKED BY	APPROVED BY		
SIGN.					
NAME	AJP	NJA	DL		
DATE	11.08.2017				
FOR	GGL	GGL	GGL		
 GUJARAT GAS LIMITED GUJARAT GAS TECHNICAL SERVICES					
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION					
PROJECT NAME: TYPICAL DRAWING					
TITLE: TYPICAL DETAILS FOR RCC GUARD					
SCALE	SHEET	DRAWING NO.			REV.
NTS	1 OF 1	GGL-TS/PE-TYP/RCC GUARD-016			0

NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
 <div> <h1>GUJARAT GAS LIMITED</h1> <h2>TECHNICAL SERVICES</h2> </div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: VALVE CHAMBER WITH FRP COVER FOR PE NETEWORK				
SCALE	SHEET	DRAWING NO.	REV.	
NTS	1 OF 1	GGL-TS/PE-TYP/FRP V/C -026	0	




NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) DO NOT SCALE THE DRAWING, FOLLOW WRITTEN DIMENSION ONLY.
- 3) ALL CONCRETE MIX SHALL BE M20 U.N.O.
- 4) BRICK WORK SHALL BE DONE WITH COMMON BURNT FIRST CLASS BRICKS STRENGTH NOT LESS THAN 3kg/8qcm IN MORTAR PROPORTION (1:6) U.N.O
- 5) EXTERNAL FINISH :- 12mm THK. (1:6) SAND FACED PLASTER
- 6) EXTERNAL PAINT :- YELLOW PAINT.
- 7) BASE FRAME SIZE GIVEN BELOW IS TENTATIVE, CONTRACTOR HAS TO CONFIRM WITH EIC PRIOR TO EXECUTION.

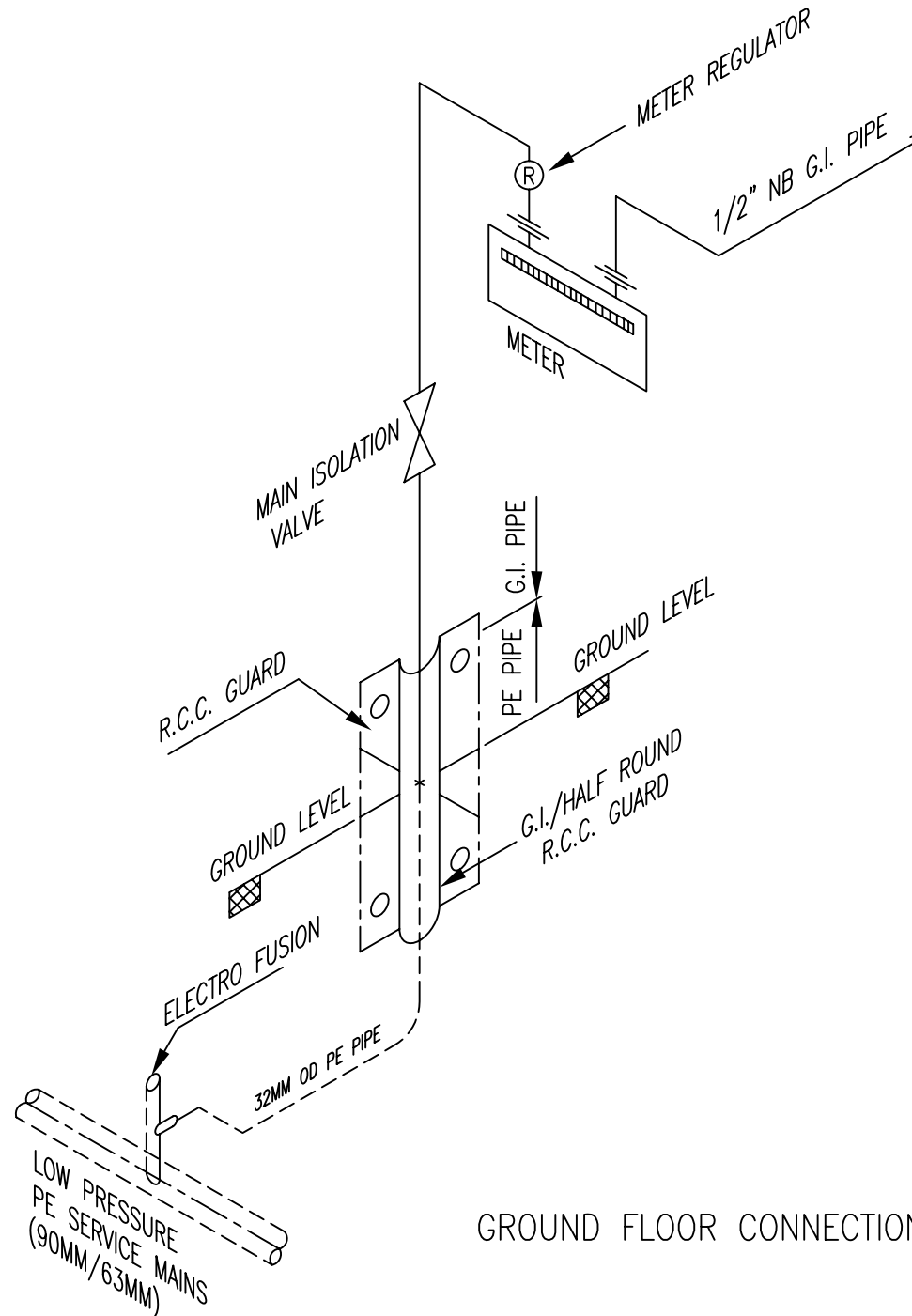
BASE FRAME SIZE

	B-10/25/50	B-100	B-200
X	675	1285	1145
Y	330	475	475


NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
 GUJARAT GAS LIMITED TECHNICAL SERVICES				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: TYPICAL SERVICE REGULATOR FOUNDATION DETAILS				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/SERVICE REGULATOR-018		0

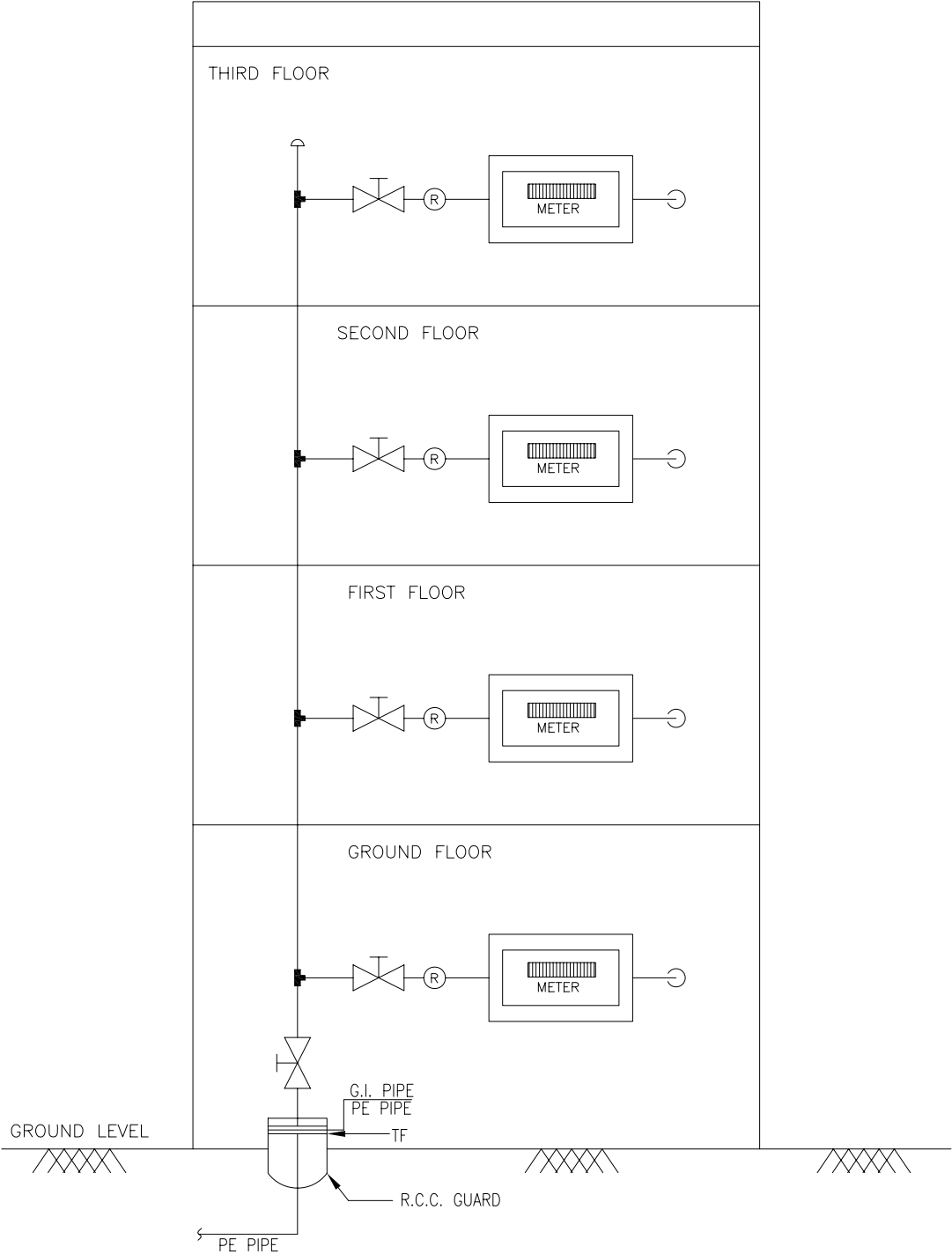
NOTE :-

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
2) FOR DETAILS REFER PE PNG GUIDELINE




GROUND FLOOR CONNECTION

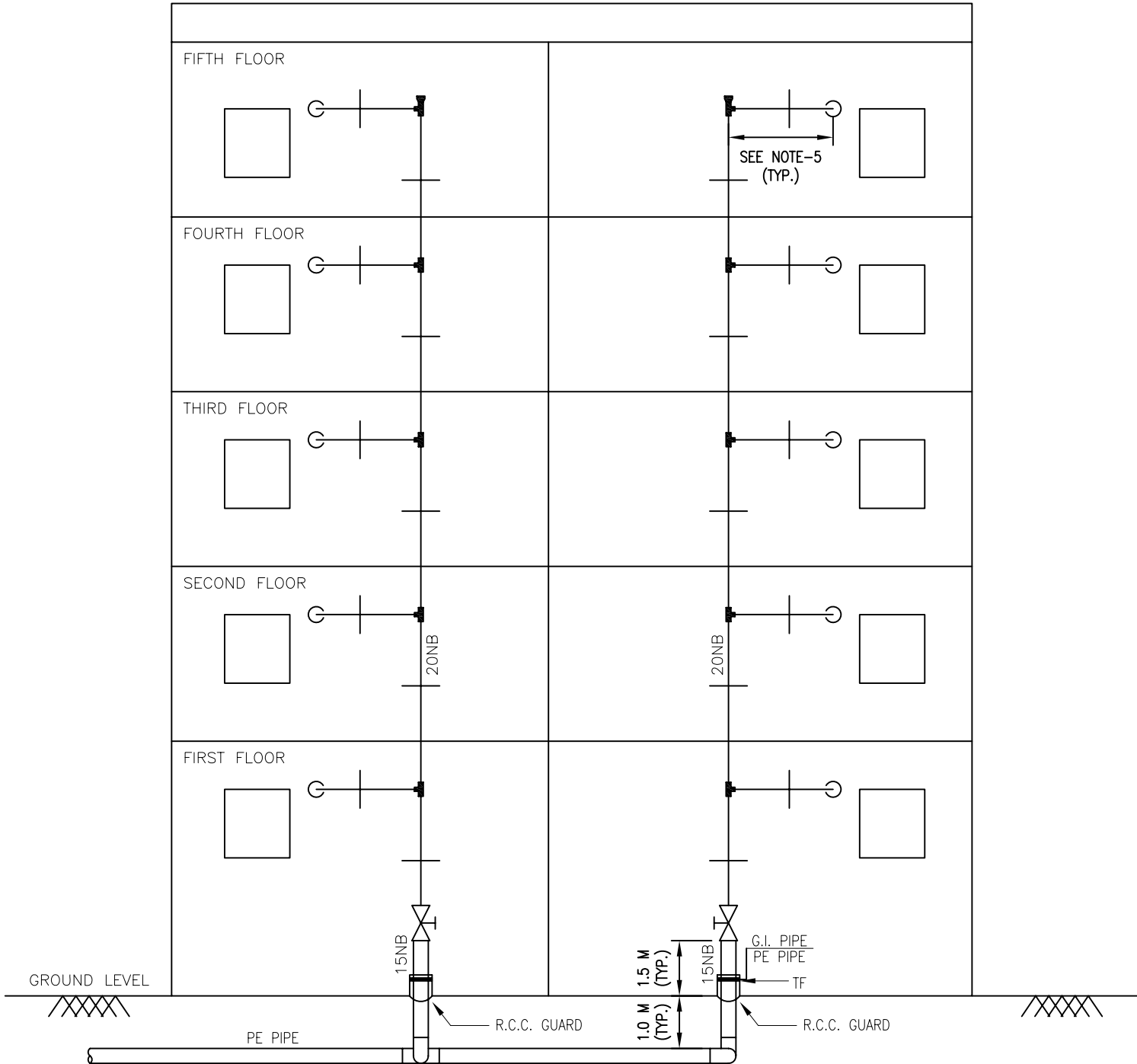
NO.	DATE	REVISION	REV.BY.	SIGN.	
	PREPARED BY	CHECKED BY	APPROVED BY		
SIGN.					
NAME	AJP	NJA	DL		
DATE	11.08.2017				
FOR	GGL	GGL	GGL		
 GUJARAT GAS LIMITED TECHNICAL SERVICES					
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION					
PROJECT NAME: TYPICAL DRAWING					
TITLE: TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION					
SCALE	SHEET	DRAWING NO.			REV.
NTS	1 OF 1	GGL-TS/PE-TYP/NG DISTRIBUTION -019			0



NOTE :-


- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) TAPPING SHALL BE PROVIDED AT EACH FLOOR AT THE TIME OF RISER INSTALLATION.

NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
<div> GUJARAT GAS LIMITED GUJARAT GAS TECHNICAL SERVICES</div>				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/NG DISTRIBUTION-020		0



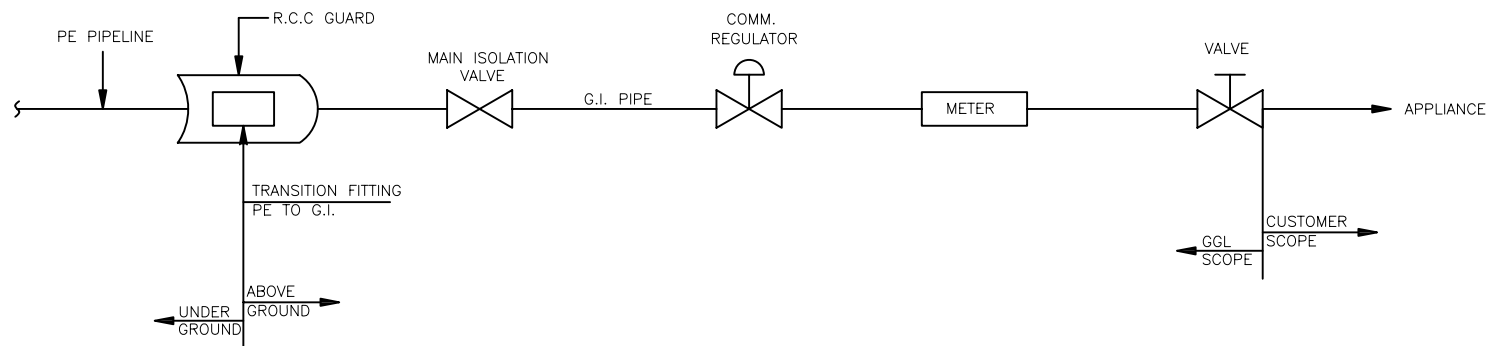
NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
- 2) THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE. IT SHALL BE DECIDED DURING DETAIL ENGINEERING.
- 3) PIPING DOWN STREAM OF METER SHALL BE OF G.I.
- 4) TENTATIVE RISER LENGTH (FROM OUTLET OF TRANSITION FITTINGS TO INLET OF ISOLATION VALVE) SHALL BE AS PER APPROVED GGL GUIDELINE.
- 5) MAXIMUM DISTANCE BETWEEN CLAMPS SHALL BE 1.0 MTR WHEN PIPE GOES IN THE STRAIGHT LENGTH. CLAMP SHALL BE PLACED ON BOTH SIDES (150 MM DISTANCE) OF ANY G.I. FITTING USED.


NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
 GUJARAT GAS LIMITED GUJARAT GAS TECHNICAL SERVICES				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/NG DISTRIBUTION-021		0

NOTE :-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
- 2) SIZE OF LINE, VALVE ETC. SHALL BE DECIDED AT THE OF EXECUTION AS PER THE INSTRUCTIONS OF OWNER/ OWNERS REPRESENTATIVE.

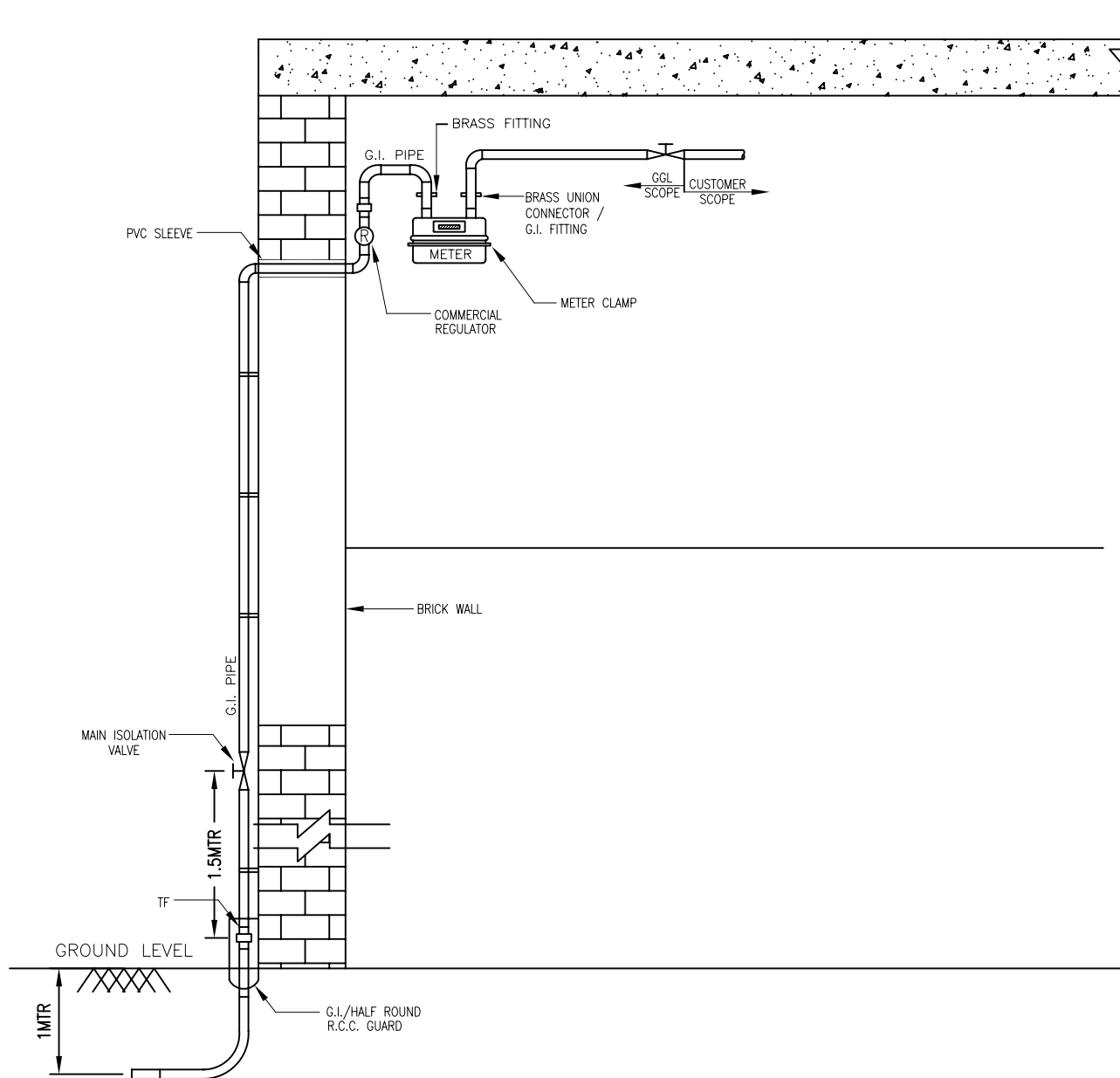



SCHEME OF NATURAL GAS SUPPLY TO COMMERCIAL CONSUMERS

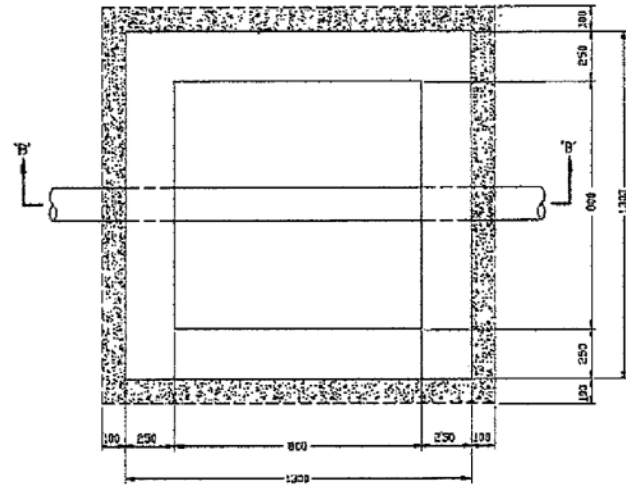
NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
 GUJARAT GAS LIMITED TECHNICAL SERVICES				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: SCHEME OF GAS SUPPLY TO COMMERCIAL CONSUMERS				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/COMM CONSUMER-023		0

NOTE :-

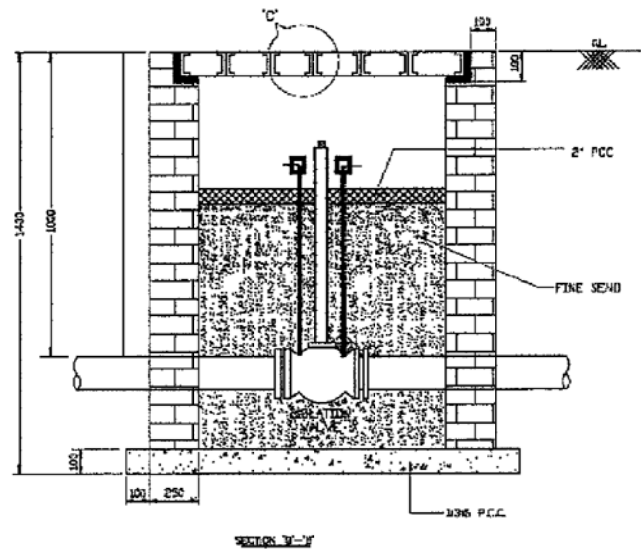
1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
2) THE SIZE SHOWN IN THE DRAWING ARE TENTATIVE.



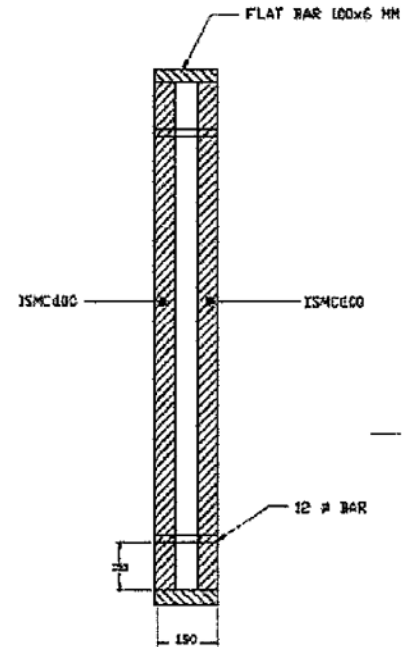
NO.	DATE	REVISION	REV.BY.	SIGN.
	PREPARED BY	CHECKED BY	APPROVED BY	
SIGN.				
NAME	AJP	NJA	DL	
DATE	11.08.2017			
FOR	GGL	GGL	GGL	
 GUJARAT GAS LIMITED TECHNICAL SERVICES				
TYPICAL DRAWING FOR PIPELINE CONSTRUCTION				
PROJECT NAME: TYPICAL DRAWING				
TITLE: NATURAL GAS INSTALLATION FOR COMMERCIAL CUSTOMER				
SCALE	SHEET	DRAWING NO.		REV.
NTS	1 OF 1	GGL-TS/PE-TYP/COMM CUSTOMER-024		0



PLAN

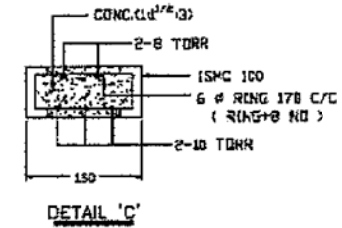


SECTION 'B-B'

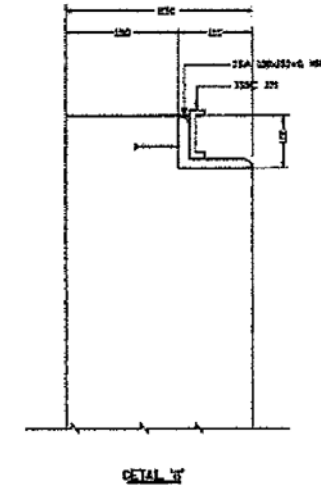


SLEEPER SIZE	
LENGTH	= 375 MM
WIDTH	= 150 MM
THICK	= 100 MM
FLAT BAR SIZE	= 100x6 mm
FRAME SIZE	= 1100 x 1325 MM

PE VALVE CHAMBER WITH SLEEPERS



DETAIL 'C'



DETAIL 'D'



GUJARAT GAS LIMITED

GUJARAT GAS

TECHNICAL SERVICES

TYPICAL DRAWING FOR PIPELINE CONSTRUCTION

PROJECT NAME: TYPICAL DRAWING

TITLE: VALVE CHAMBER WITH SLEEPER FOR PE NETWORK

SCALE	SHEET	DRAWING NO.	REV.
NTS	1 OF 1	GGL-TS/PE-TYP/SLEEPER V/C -027	0

NO.	DATE	REVISION	REV.BY.	SIGN.	FOR	GGL	GGL	GGL

PREPARED BY

CHECKED BY

APPROVED BY

SIGN.

NAME

AJP

NJA

DL

DATE

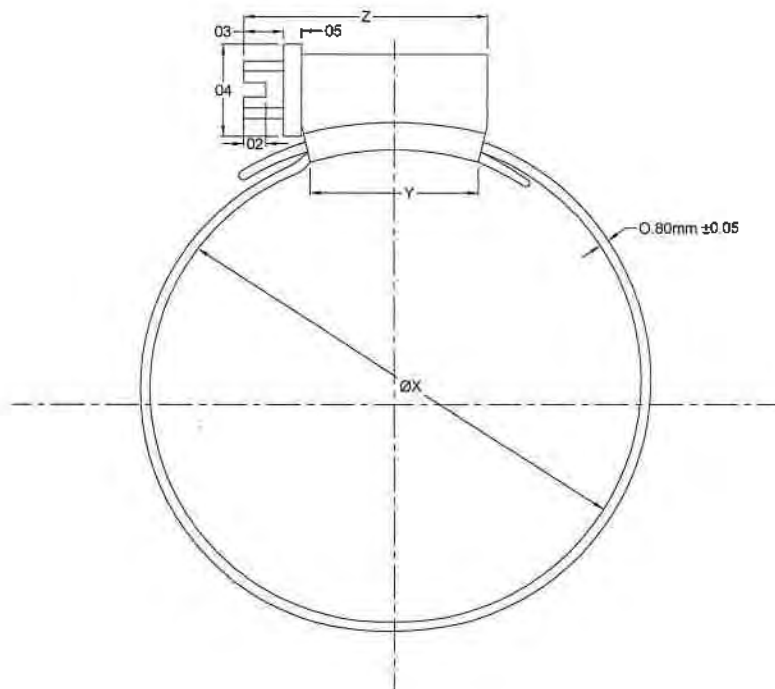
11.08.2017

FOR

GGL

GGL

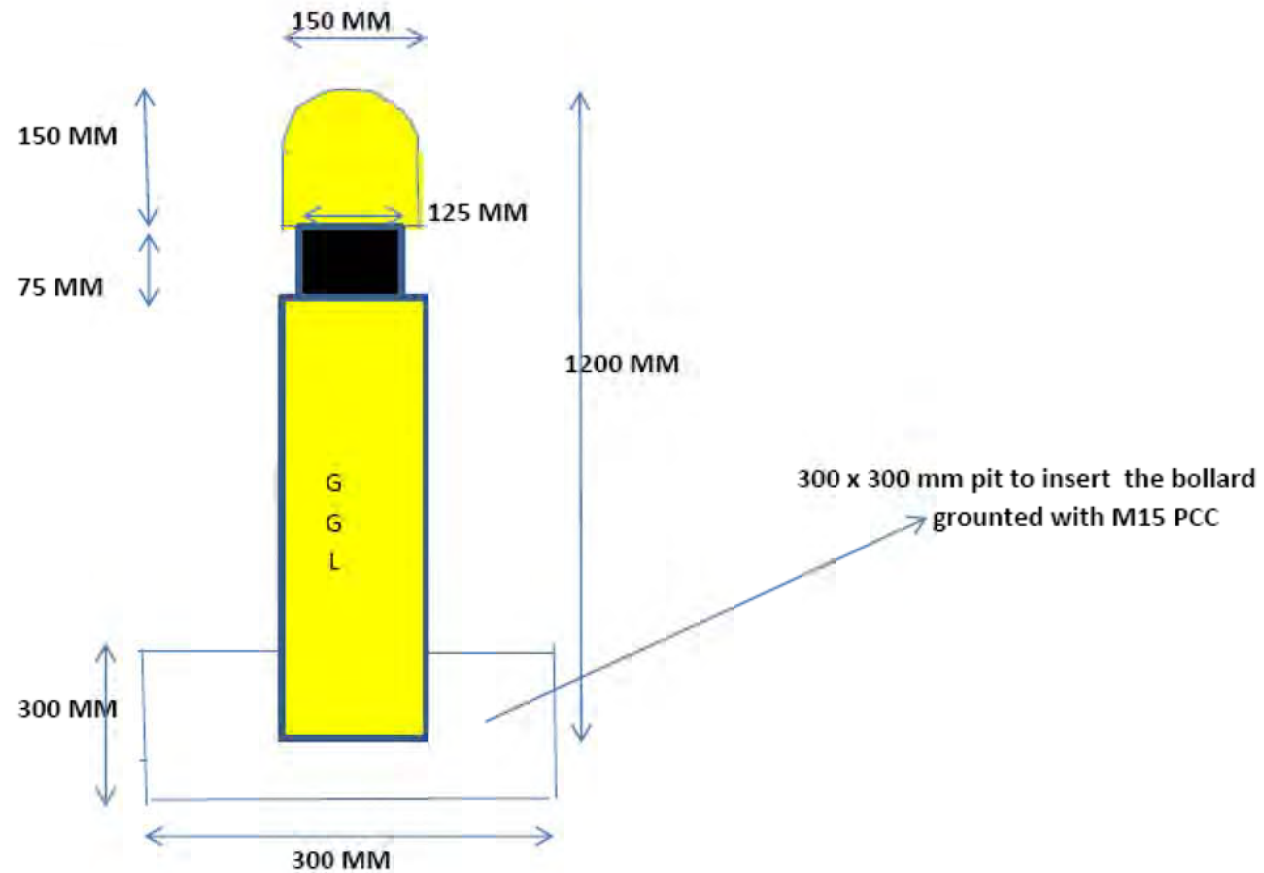
GGL



NTS	1 OF 1	GGL-TS/DOMESTIC INSTALLATION-TYP-001
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						PREPARED BY	CHECKED BY	APPROVED BY
					SIGN.			
					NAME			
					DATE	17.06.2017		
					FOR	GGL	GGL	GGL
					CONTRACTOR :			
NO.	DATE	REVISION	REV.BY.	SIGN.	INSPECTION AGENCY:			

Design of Concret Bollards



GUJARAT GAS LIMITED

GUJARAT GAS

TECHNICAL SERVICES

TYPICAL DRAWING FOR PIPELINE CONSTRUCTION

PROJECT NAME: TYPICAL DRAWING

TITLE: DESIGN OF CONCRET BOLLARDS

						PREPARED BY	CHECKED BY	APPROVED BY	
					SIGN.				
					NAME	AJP	NJA	DL	
					DATE	02.06.2018			
NO.	DATE	REVISION	REV.BY.	SIGN.	FOR	GGL	GGL	GGL	
						NTS	1 OF 1	GGL-TS/PE-TYP/CONC. BOLLARDS-028	0



1. ALL DIMENSIONS ARE IN mm.
2. TPI- THREAD PER INCH.
3. ALL TOLERANCES ARE $\pm 0.1\text{mm}$, UNLESS SPECIFIED EXPLICITLY.
4. ALL FITTINGS ARE AS PER IS:319 WITH HARD CHROME PLATING.

MOC DETAILS			
Sr. No.	PART	MOC	OTHER REC'S
1	COMPONENT PIN (INLET/OUTLET) G6,G10 & G16	BRASS (IS319)	HARD CHROME PLATING
2	NUT G6,G10 & G16	BRASS (IS319)	HARD CHROME PLATING
3	TOP SEAT PLATE	SS316	—
4	RUBBER SHEET	NITRILE	—
5	LOCK PIN	SS316	—

NO.	DATE	REVISION	REV.BY.	SIGN.

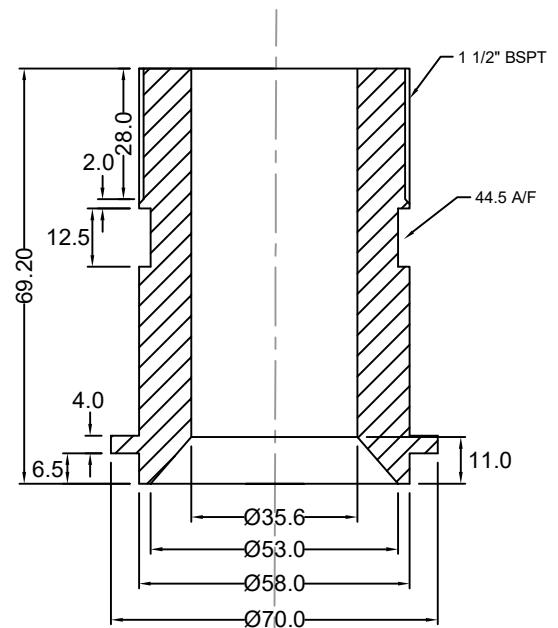
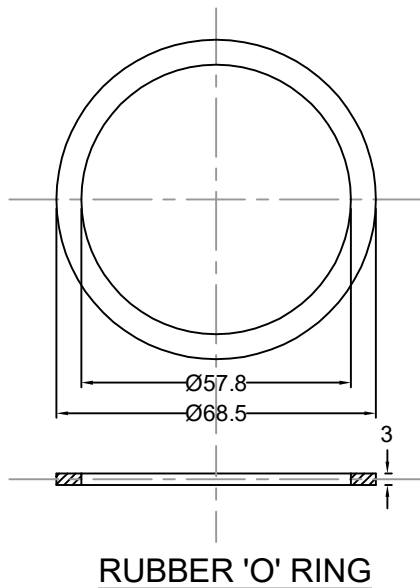
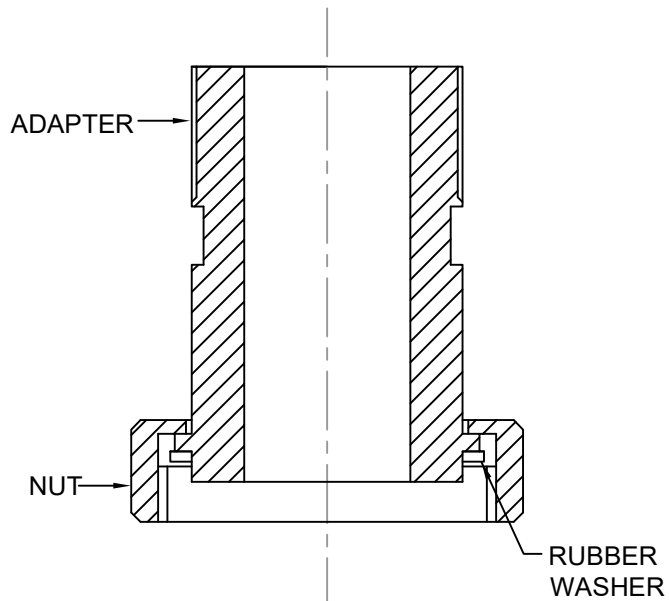
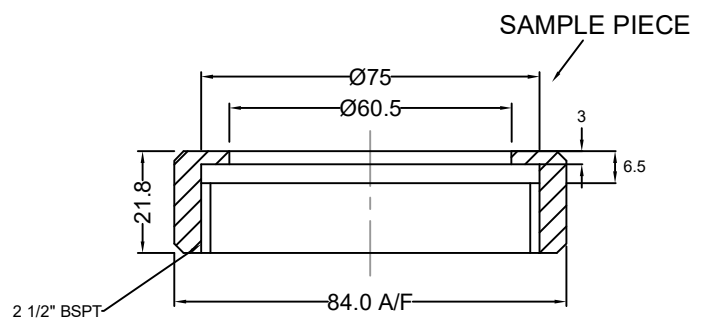
	PREPARED BY	CHECKED BY	APPROVED BY
SIGN.			
NAME			
DATE	27.02.2019		
FOR	GGL	GGL	GGL



PROJECT NAME: DRAWING FOR METER ADAPTOR			
STATUS: ISSUED FOR BID/CONSTRUCTION			
TITLE: ADAPTOR FOR G6, G10 & G16			
SCALE	SHEET	DRAWING NO.	REV.
NTS	1 OF 1	GGL-TS/ADAP. G6 G10 G16/TYP-001	0

ADAPTOR FOR	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	BL1	BL2	X.
G6	32.0	38.0	33.00	25.0	1"BSPT	21.0	36.0	5.0	8.0	48 A/F	M40,11TPI	20.0	25	16.0	33.5	30.0	5.0	70.0
G10 & G16	47.0	56.0	48.0	40.0	1.1/2" BSPT	25.0	33.0	5.0	7.0	65 A/F	M57,11TPI	21.5	26.50	18.0	49.0	30.0	5.0	70.0

BRASS METER ADAPTOR DRAWING FOR G6, G10 & G16 DOM. METER - (3/4" BSP)

ADAPTOR PINHEX. NUT

NOTES :-

1. MATERIAL SHALL CONFIRM TO IS 319, FREE CUTTING EXTRUDED BRASS ROD.
2. DIMENSIONS REFERENCES SHALL BE AS PER BS 86 AND BS 21.
3. RUBBER O RING MATERIAL WILL BE NITRAEL.
4. ALL DIMENSIONS ARE IN MM.
5. TOLERANCE - ± 0.10 STATED
6. MATERIAL - BRASS

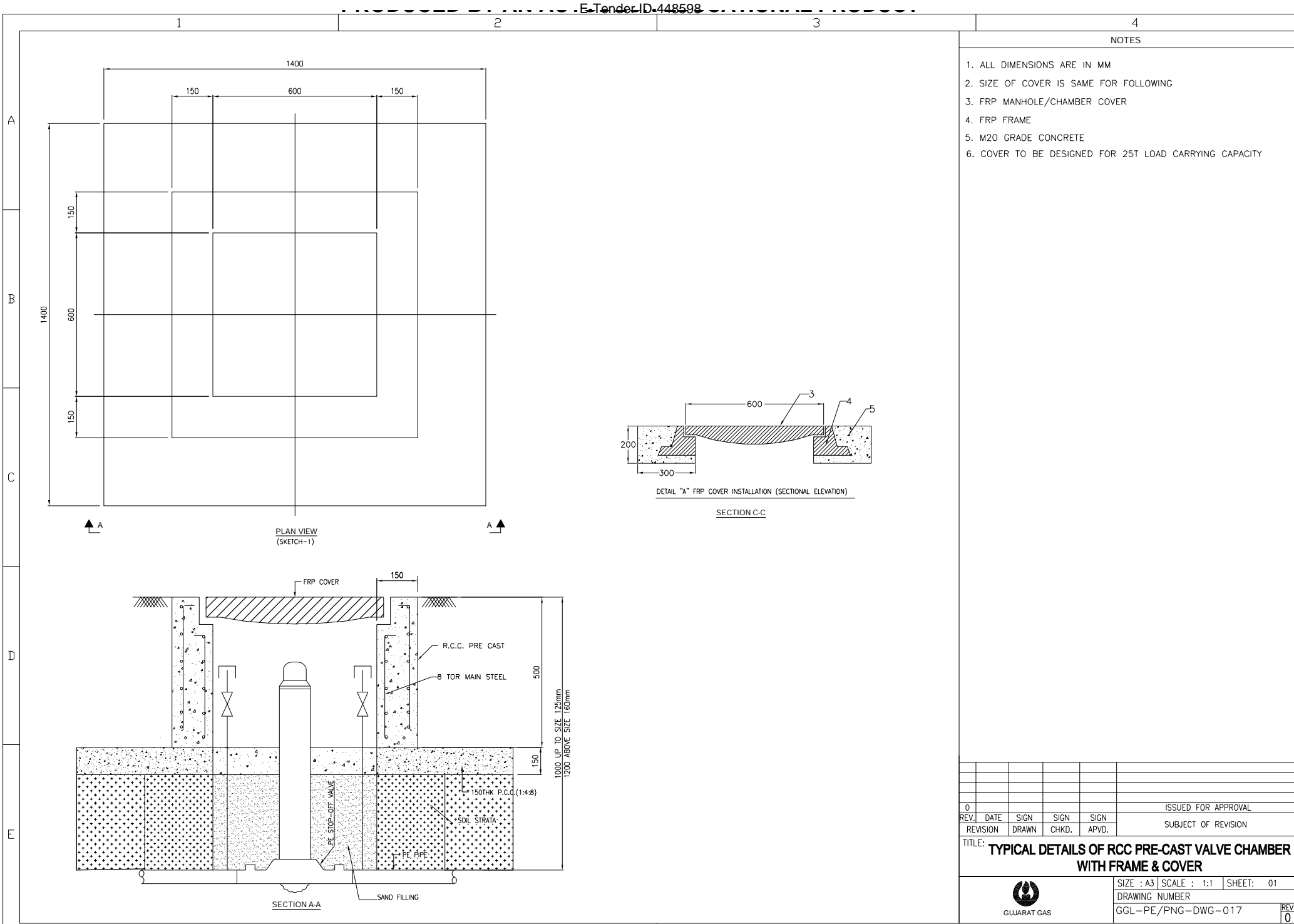
						PREPARED BY	CHECKED BY	APPROVED BY	STATUS : ISSUED FOR BID/CONSTRUCTION			
					SIGN.				TITLE : ADAPTER FOR G25			
					NAME	AJP						
					DATE	27.02.2019			SCALE	SHEET	DRG. NO.:	REV.
NO.	DATE	REVISION	REV.BY.	SIGN.	FOR	GGL	GGL	GGL	NTS	1OF1	GGL-TS/ADAPTOR G25/TYP-001	0

**GUJARAT GAS LIMITED**

TECHNICAL SERVICES

GUJARAT GAS

PROJECT NAME :DRAWING FOR METER ADAPTOR



6.30 LATERAL ARRANGEMENT WITH ANACONDA- (EXTERNAL RISER)

