

	TECHNICAL TENDER	
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**CENTRAL UP GAS LIMITED
(CITY GAS PROJECT IN KANPUR & BAREILLY)**

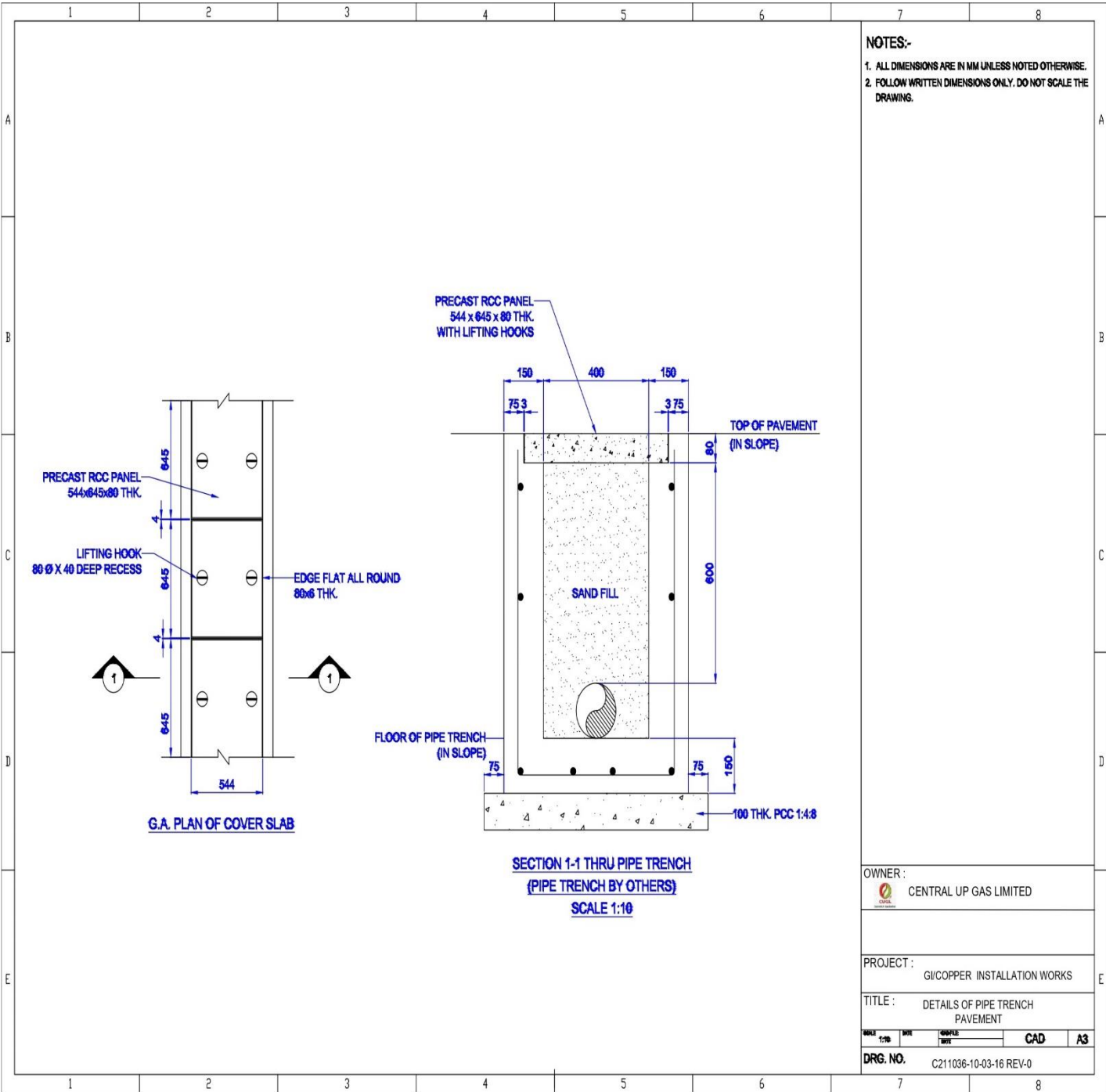
TENDER FOR

**RATE CONTRACT AND EMPANELMENT OF CONTRACTORS FOR
G.I. PIPE, LAYING OF MDPE PIPE AND ASSOCIATED WORKS FOR
CITY GAS DISTRIBUTION PROJECT AT KANPUR, UNNAO,
BAREILLY & JHANSI GA**

TENDER NO. CUGL/C&P/TEN2324/67

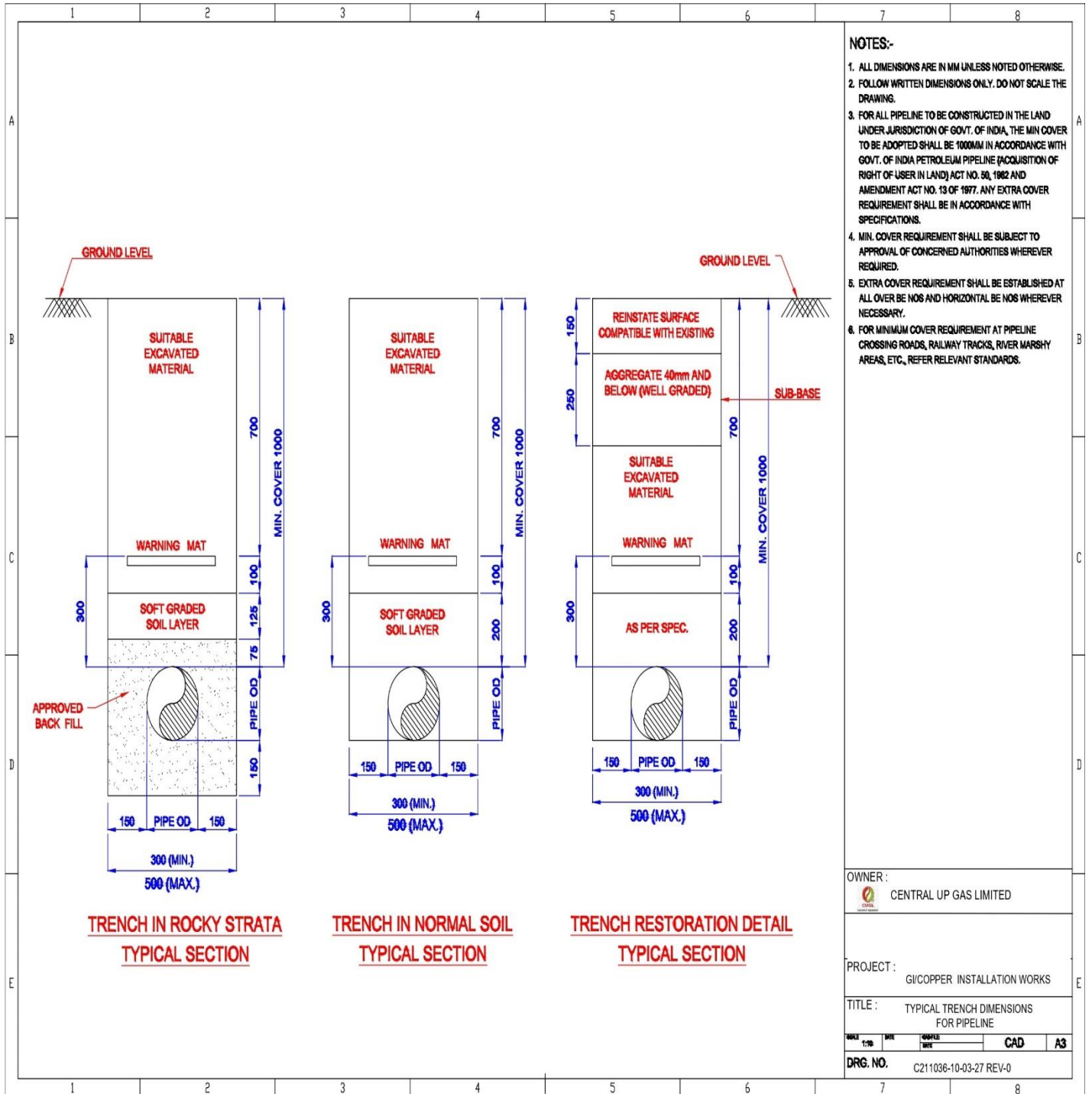
**TECHNICAL VOLUME
(Volume II of II Part IID OF II)**

**OPEN DOMESTIC COMPETITIVE BIDDING
(THROUGH E-TENDERING MODE)**



NOTES:-
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.

OWNER :			
CENTRAL UP GAS LIMITED			
PROJECT :			
G/COPPER INSTALLATION WORKS			
TITLE :			
DETAILS OF PIPE TRENCH PAVEMENT			
SCALE	DATE	DESIGNED BY	CAD
1:10			A3
DRG. NO. C211036-10-03-16 REV-0			



NOTES:-

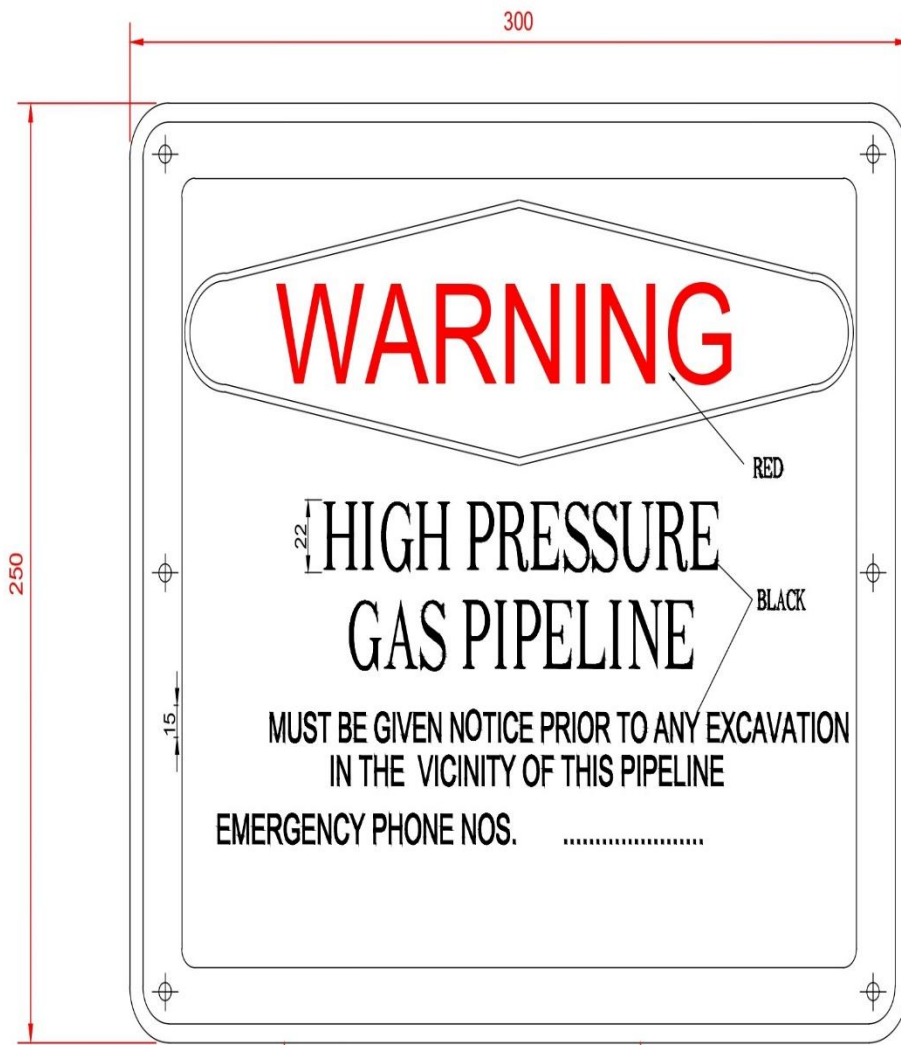
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
3. FOR ALL PIPELINE TO BE CONSTRUCTED IN THE LAND UNDER JURISDICTION OF GOVT. OF INDIA, THE MIN COVER TO BE ADOPTED SHALL BE 1000MM IN ACCORDANCE WITH GOVT. OF INDIA PETROLEUM PIPELINE (ACQUISITION OF RIGHT OF USER IN LAND) ACT NO. 50, 1982 AND AMENDMENT ACT NO. 13 OF 1977. ANY EXTRA COVER REQUIREMENT SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
4. MIN. COVER REQUIREMENT SHALL BE SUBJECT TO APPROVAL OF CONCERNED AUTHORITIES WHEREVER REQUIRED.
5. EXTRA COVER REQUIREMENT SHALL BE ESTABLISHED AT ALL OVER BE NOS AND HORIZONTAL BE NOS WHEREVER NECESSARY.
6. FOR MINIMUM COVER REQUIREMENT AT PIPELINE CROSSING ROADS, RAILWAY TRACKS, RIVER MARSHY AREAS, ETC., REFER RELEVANT STANDARDS.

OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

TITLE :
 TYPICAL TRENCH DIMENSIONS FOR PIPELINE

SCALE	DATE	DESIGNED	CAD	A3
1:75				
DRG. NO. C211036-10-03-27 REV-0				



MS PLATE 3.0 MM (MIN) THK.

POWDER COATED GOLDEN YELLOW

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. FOLLOW WRITTEN DIMENSIONS ONLY DO NOT SCALE.

CLIENT:

 CENTRAL UP GAS LIMITED

PROJECT:

GI/COPPER INSTALLATION WORKS

TITLE

PLATE MARKER

SCALE: NTS	CAD FILE: DATE	CAD	DATE	A3
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DRG. NO. 1007-10-03-28 REV-0

1 2 3 4 5 6 7 8

A

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C

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E

A

B

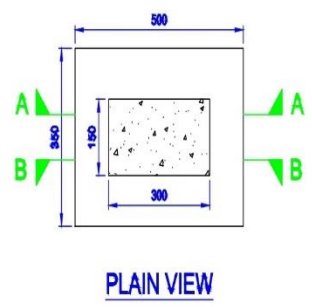
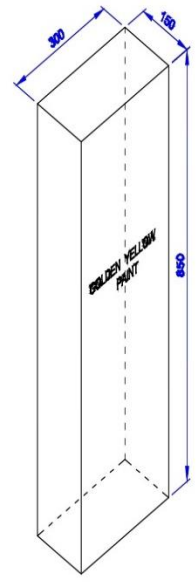
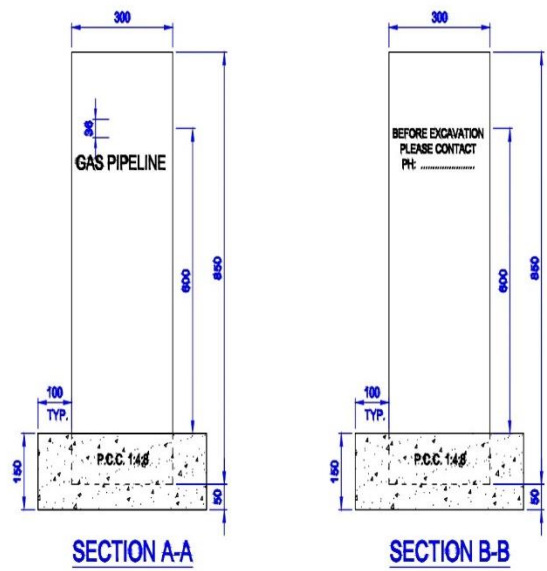
C


D

E

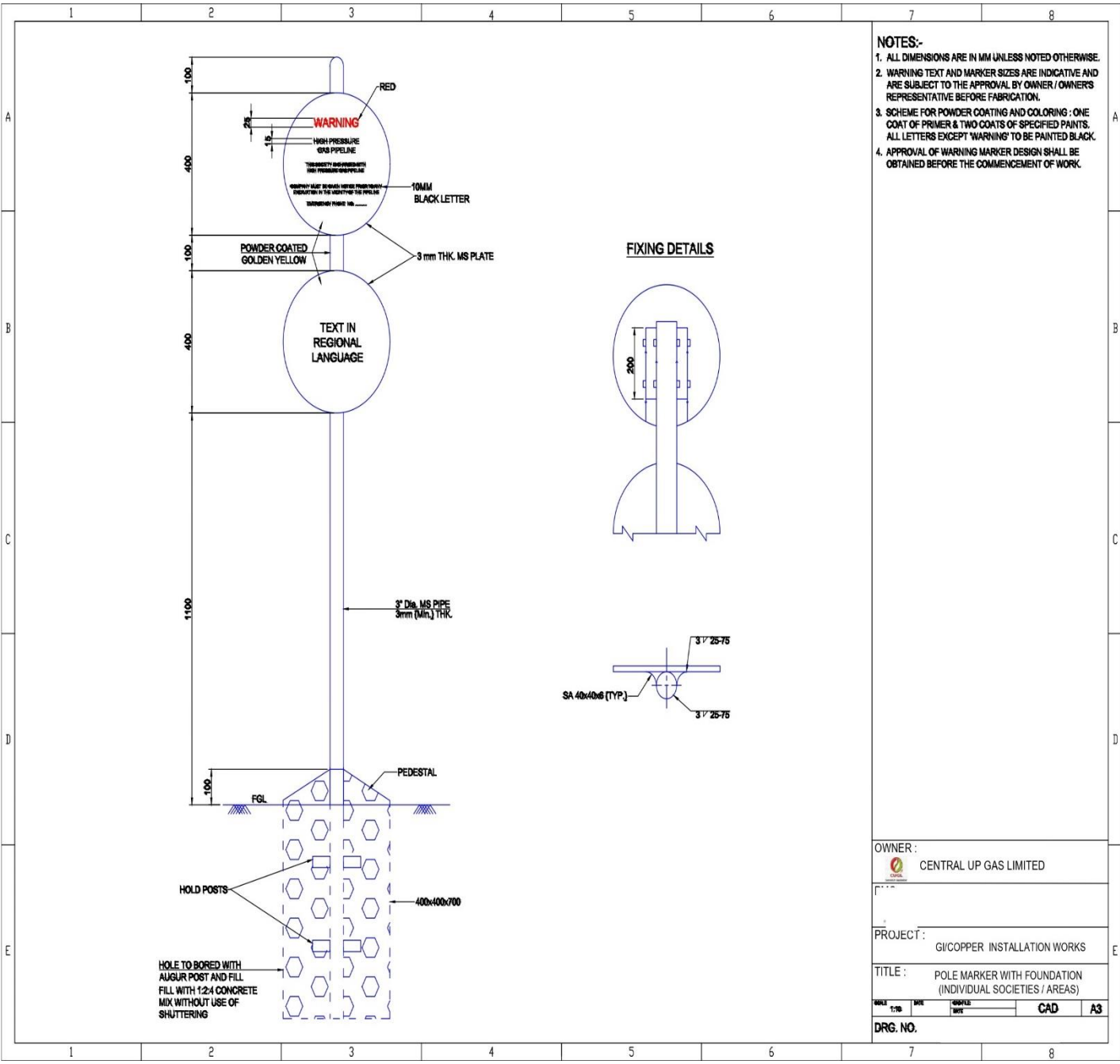
NOTES:-

- 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
- 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
- 3. ALL TEXT SHOULD BE WRITTEN IN BLACK COLOR.




OWNER :		 CENTRAL UP GAS LIMITED	
PROJECT :		GI/COPPER INSTALLATION WORKS	
TITLE :		SKETCH FOR STONE MARKER	
SCALE	DATE	DESIGNED BY	CAD
1:10			A3
DRG. NO.	C211036-10-03-29 REV-0		

1 2 3 4 5 6 7 8



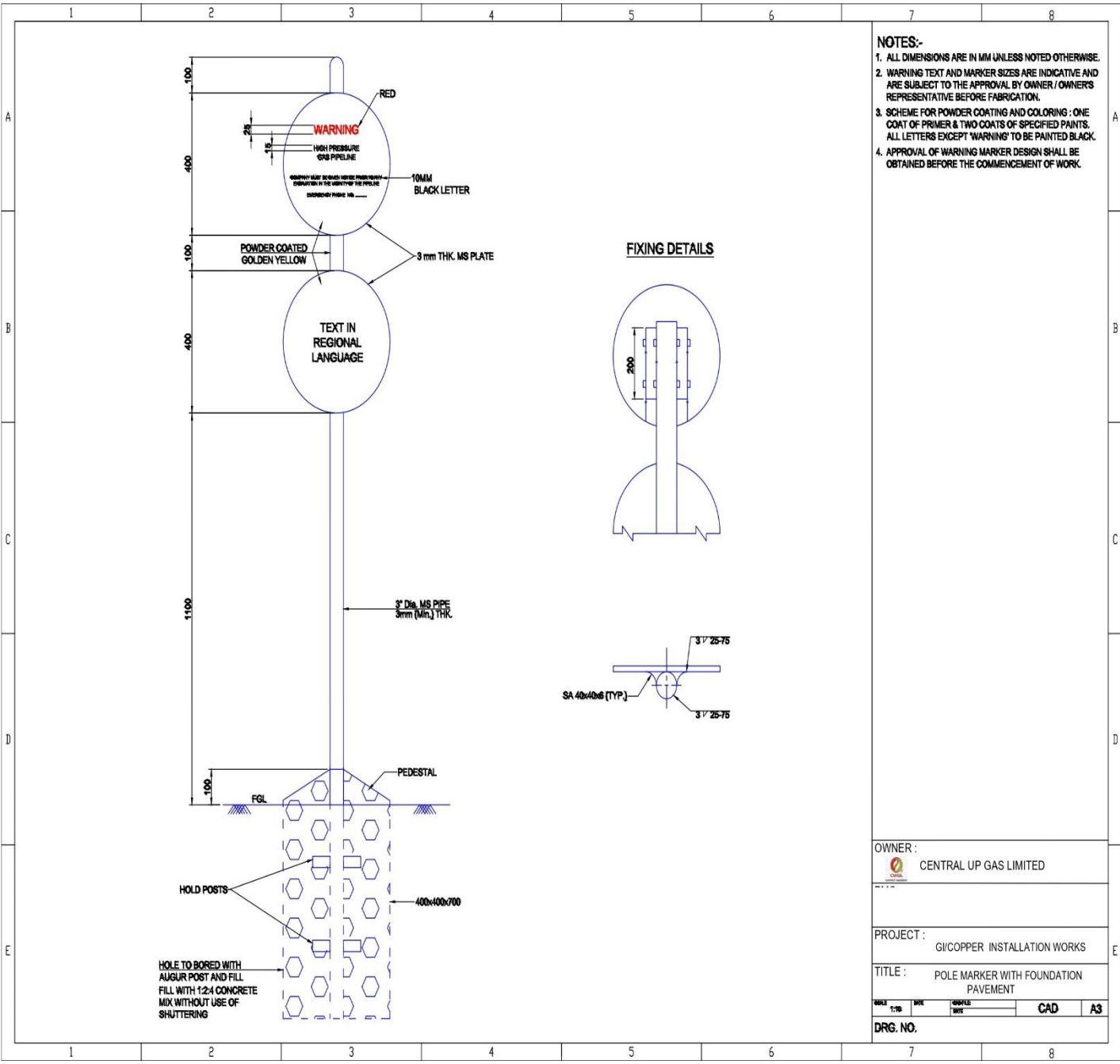
- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. WARNING TEXT AND MARKER SIZES ARE INDICATIVE AND ARE SUBJECT TO THE APPROVAL BY OWNER / OWNERS REPRESENTATIVE BEFORE FABRICATION.
 3. SCHEME FOR POWDER COATING AND COLORING : ONE COAT OF PRIMER & TWO COATS OF SPECIFIED PAINTS. ALL LETTERS EXCEPT 'WARNING' TO BE PAINTED BLACK.
 4. APPROVAL OF WARNING MARKER DESIGN SHALL BE OBTAINED BEFORE THE COMMENCEMENT OF WORK.

OWNER :
 CENTRAL UP GAS LIMITED


PROJECT :
 GI/COPPER INSTALLATION WORKS

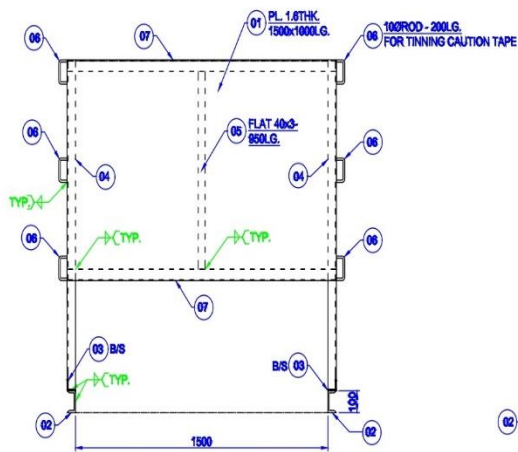
TITLE :
 POLE MARKER WITH FOUNDATION
 (INDIVIDUAL SOCIETIES / AREAS)

SCALE : 1:10
 DATE :
 DRAWN BY :
 CHECKED BY :
 CAD : A3
 DRG. NO. :

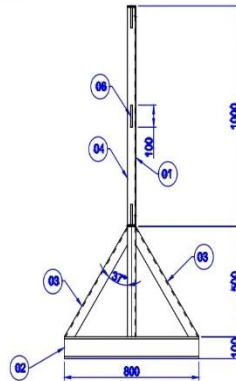


- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. WARNING TEXT AND MARKER SIZES ARE INDICATIVE AND ARE SUBJECT TO THE APPROVAL BY OWNER / OWNERS REPRESENTATIVE BEFORE FABRICATION.
 3. SCHEME FOR POWDER COATING AND COLORING : ONE COAT OF PRIMER & TWO COATS OF SPECIFIED PAINTS. ALL LETTERS EXCEPT 'WARNING' TO BE PAINTED BLACK.
 4. APPROVAL OF WARNING MARKER DESIGN SHALL BE OBTAINED BEFORE THE COMMENCEMENT OF WORK.

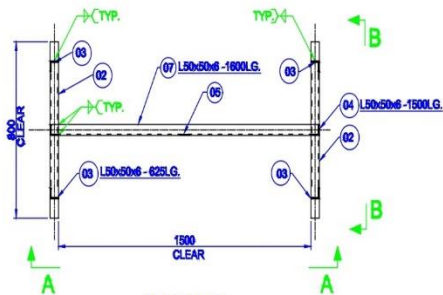
OWNER :			
 CENTRAL UP GAS LIMITED			
PROJECT :			
GI/COPPER INSTALLATION WORKS			
TITLE :			
POLE MARKER WITH FOUNDATION PAVEMENT			
SCALE	DATE	DATE	DATE
1:10			
DRG. NO.			CAD A3



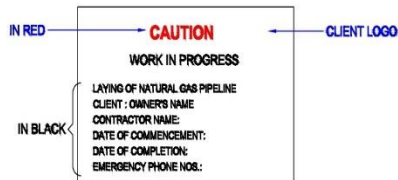
ELEVATION A-A



ELEVATION B-B



PLAN VIEW



TO BE PRINTED ON ITEM NO. 01

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWINGS.

BILL OF MATERIAL

Item Mtd.	Section	Width	Length	Item Qty.	Weight	Total Weight
				(All Metric)	Kgs./MTR	In Kgs.
1.	PL 1.8 THK	1600	1000	1	12.58	20.10
2.	ISMC 100	-	800	2	9.20	14.72
3.	L50x50x6	-	625	4	4.50	11.25
4.	L50x50x6	-	1500	2	4.50	13.50
5.	Flat 3Thk	900	40	1	0.94	0.03
6.	100 Rod	-	200	6	0.82	0.74
7.	L50x50x6	-	1600	2	4.50	14.40
					Grand Total (Kg)	74.74

OWNER :

 CENTRAL UP GAS LIMITED

PROJECT :

GI/COPPER INSTALLATION WORKS

TITLE :

CAUTION BOARD

SCALE :

DATE :

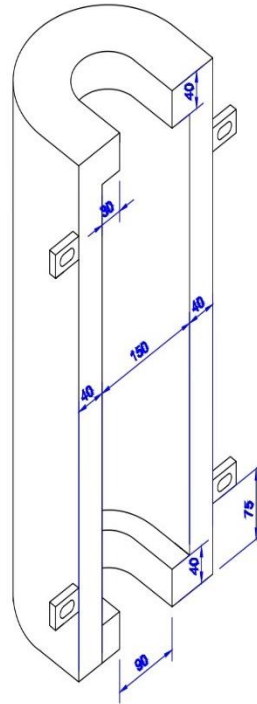
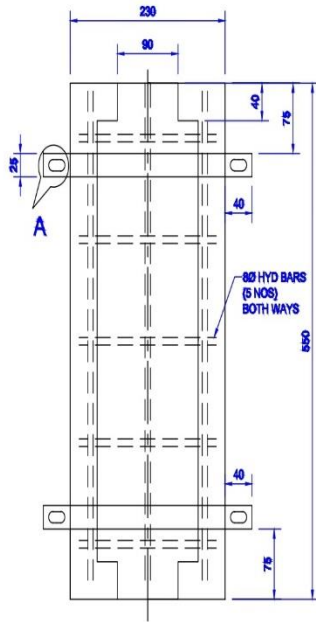
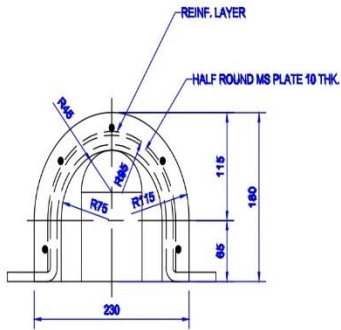
DRAWN BY :

CHECKED BY :

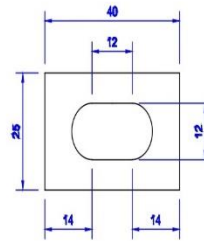
CAD :

A3

DRG. NO.



ISOMETRIC VIEW



DETAIL-A
SCALE 1:1

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
3. GRADE OF CONCRETE SHALL BE M25.
4. REINFORCEMENT IS HYD. TO IS:1786.
5. CONCRETE SLEEVE TO BE CLAMPED TO WALL WITH 100 ANCHOR BOLTS.

OWNER :



CENTRAL UP GAS LIMITED

PROJECT :

GI/COPPER INSTALLATION WORKS

TITLE :

HALF ROUND CONCRETE SLEEVE

SCALE

1:10

DATE

DESIGNED

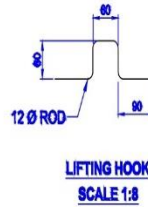
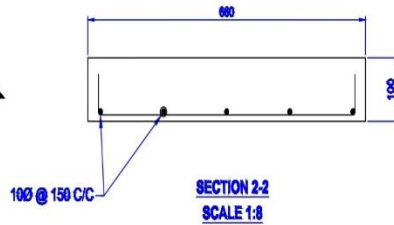
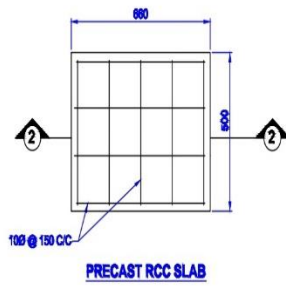
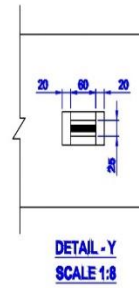
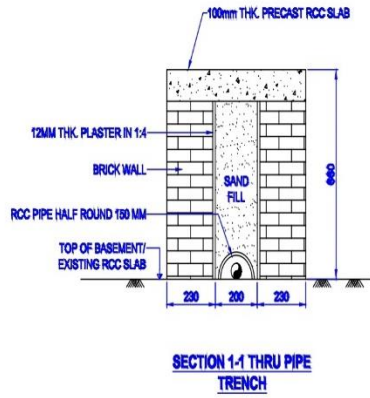
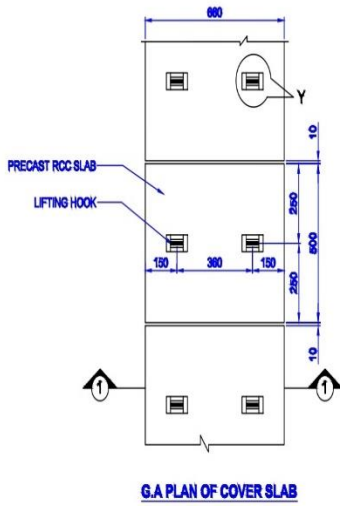
BY

CAD

A3

DRG. NO.

- NOTES:-**
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.



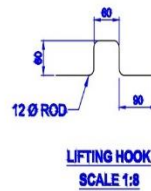
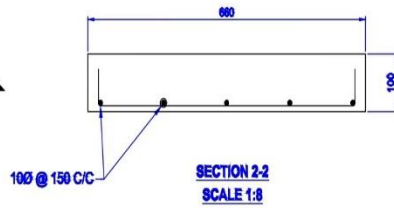
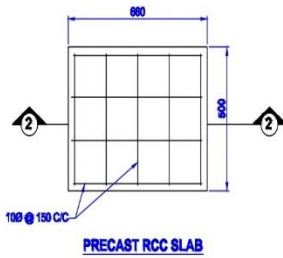
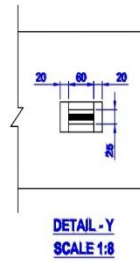
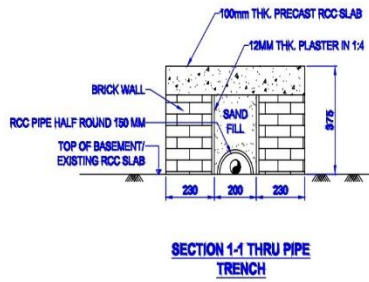
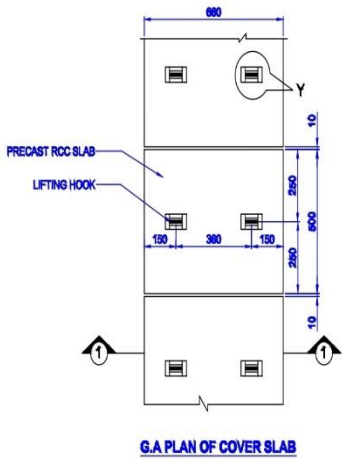
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

TITLE :
 TYPICAL BRICK WALL TRENCH
 (0.66 X 0.66 X 1.0)

SCALE	DATE	DATE	CAD	A3
1:8				
DRG. NO.	C211036-10-03-34 REV-0			

- NOTES:-**
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.



OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

TITLE :
 TYPICAL BRICK WALL TRENCH
 (0.375 X 0.66 X 1.0)

SCALE	DATE	ISSUE	CAD	A3
1:10				

DRG. NO. C211036-10-03-35 REV-0

1 2 3 4 5 6 7 8

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A

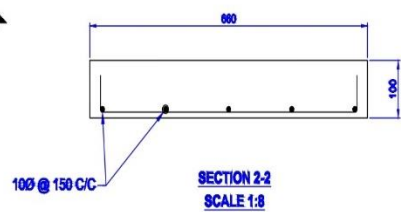
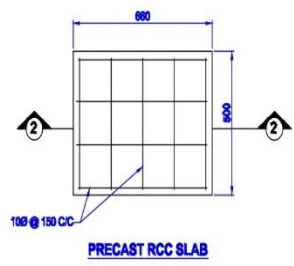
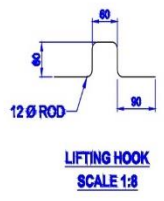
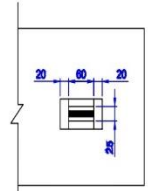
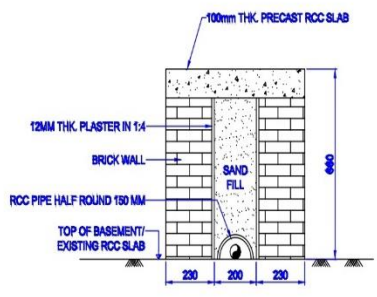
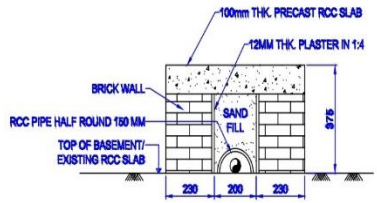
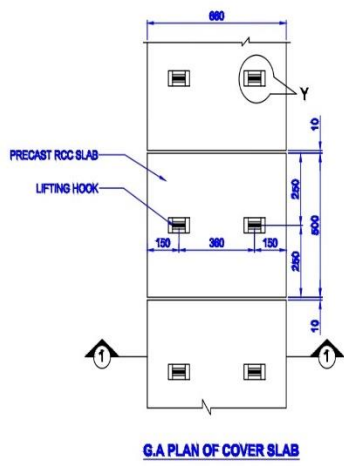
B

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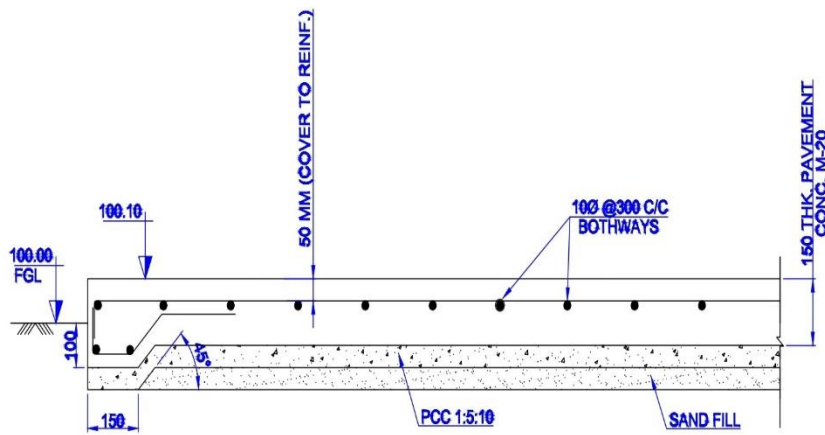
E

NOTES:-
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.



OWNER :			
CENTRAL UP GAS LIMITED			
PROJECT :			
GI/COPPER INSTALLATION WORKS			
TITLE :			
TYPICAL BRICK WALL TRENCH UPTO 7M (ROAD CROSSING) INSIDE SOCIETY			
SCALE	DATE	DATE	DATE
1:10			
DRG. NO.			A3
C211036-10-03-43 REV-0			

1 2 3 4 5 6 7 8



RCC PAVEMENT DETAIL

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.

OWNER :

 CENTRAL UP GAS LIMITED

PROJECT :

GI/COPPER INSTALLATION WORKS

TITLE :

STANDARD DETAIL OF RCC PAVEMENT

SCALE 1:10

DATE

DRAWN BY

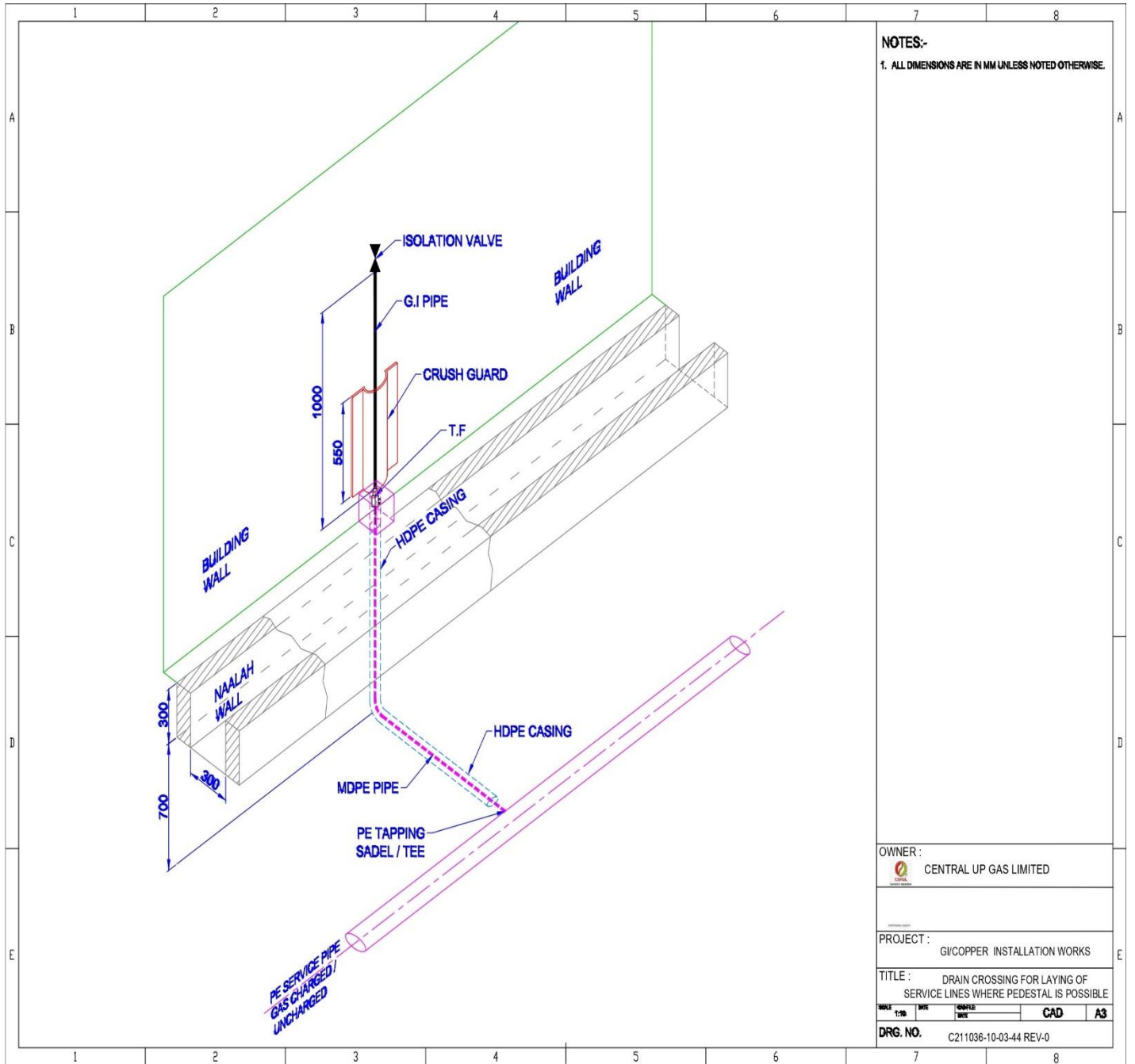
CHECKED BY

CAD


A3

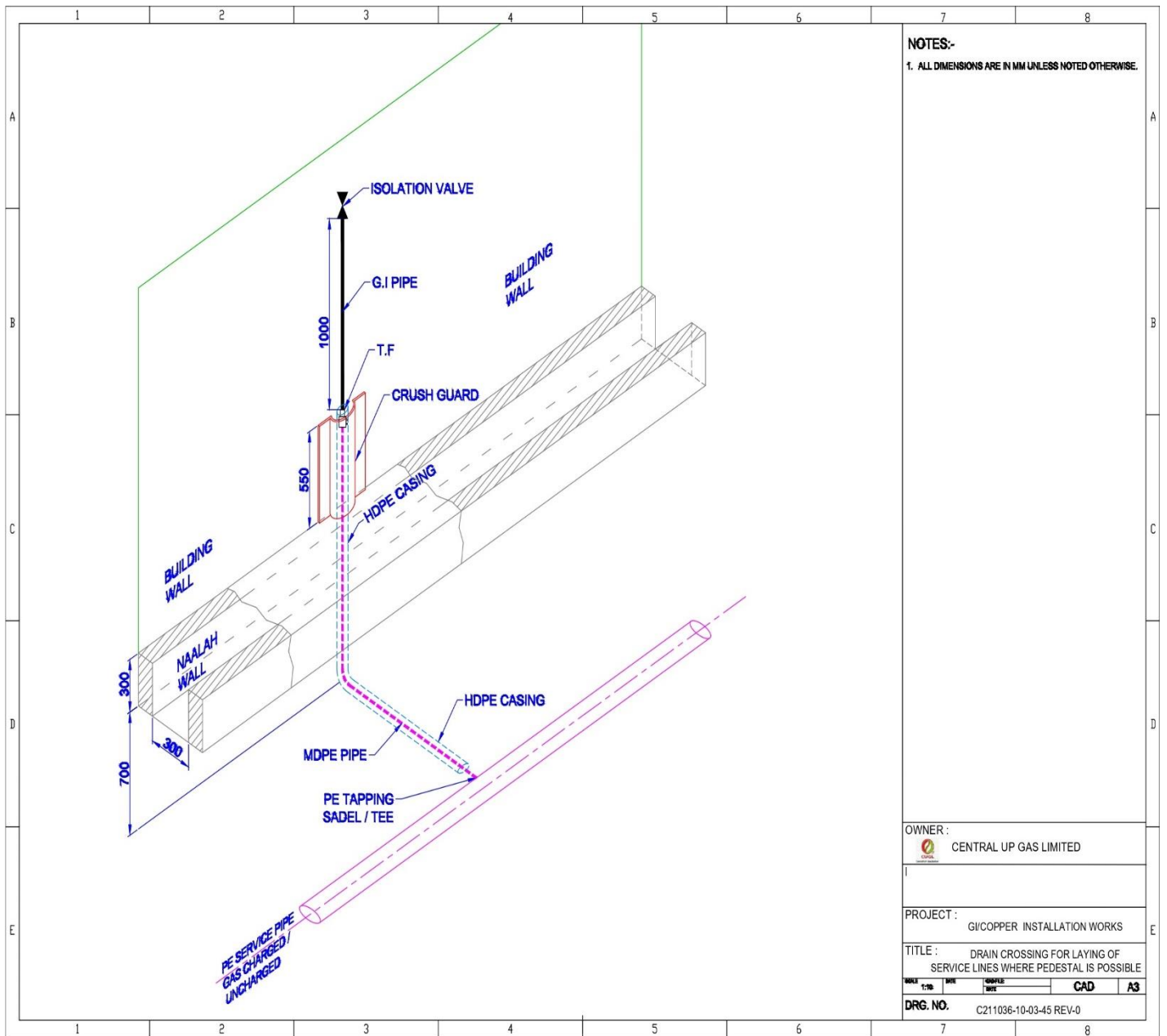
DRG. NO.

C211036-10-03-17 REV-0



NOTES:-
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.

OWNER :			
 CENTRAL UP GAS LIMITED			
PROJECT :			
GI/COPPER INSTALLATION WORKS			
TITLE :			
DRAIN CROSSING FOR LAYING OF SERVICE LINES WHERE PEDESTAL IS POSSIBLE			
SCALE	DATE	DESIGNED	DATE
1:10			
DRG. NO.		C211036-10-03-44 REV-0	



NOTES:-
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.

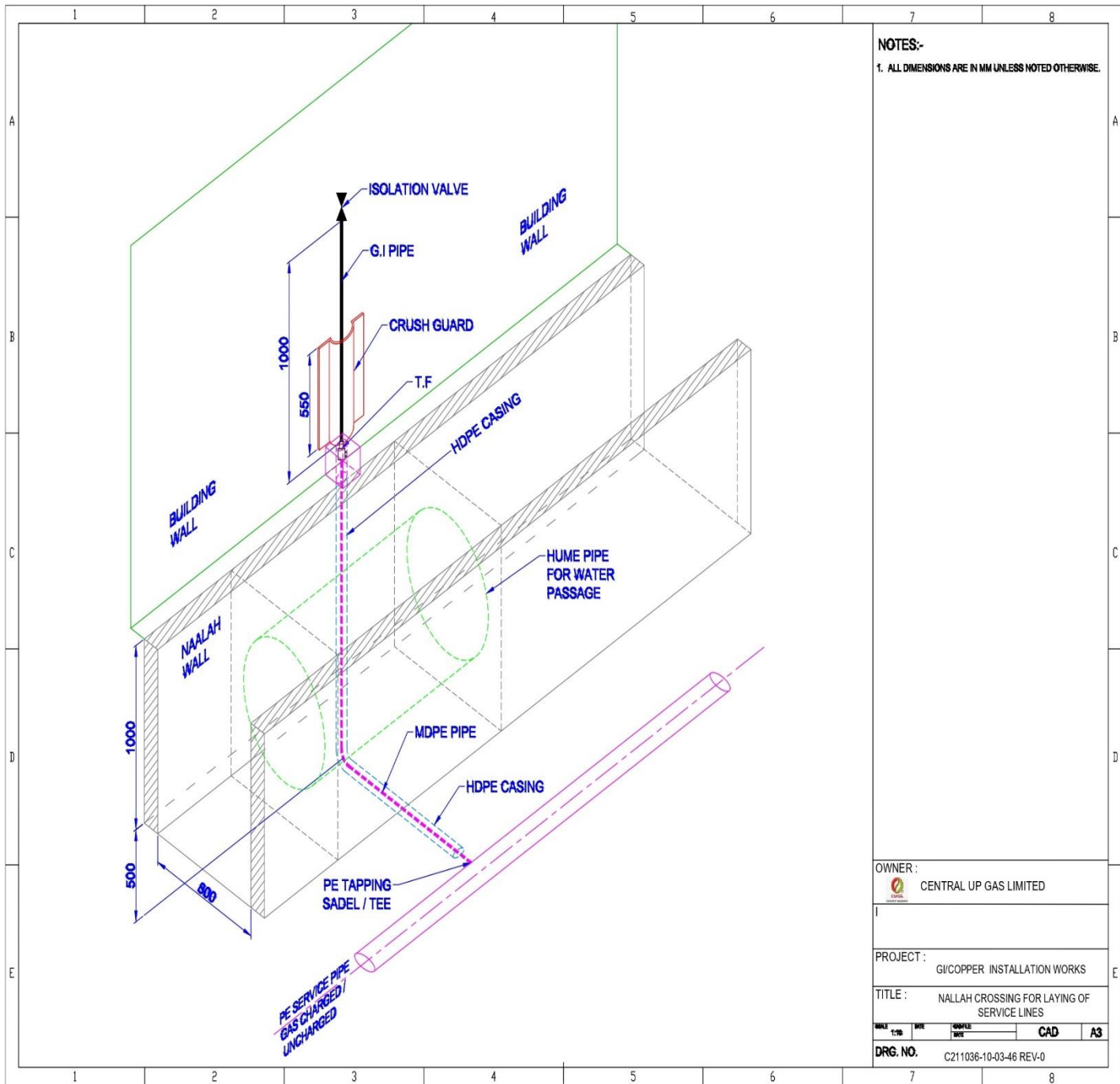
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

TITLE :
 DRAIN CROSSING FOR LAYING OF SERVICE LINES WHERE PEDESTAL IS POSSIBLE

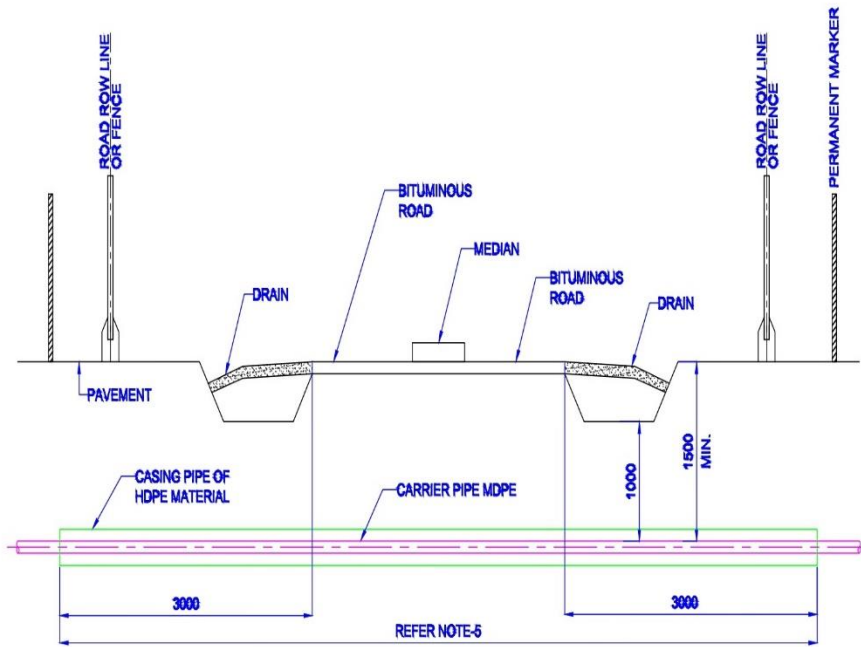
SCALE	1:75	DATE		CAD	A3
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DRG. NO. C211036-10-03-45 REV-0



NOTES:-
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.

OWNER :	
CENTRAL UP GAS LIMITED	
PROJECT :	
GI/COPPER INSTALLATION WORKS	
TITLE :	
NALLAH CROSSING FOR LAYING OF SERVICE LINES	
SCALE :	DATE :
1:10	
DRG. NO. :	CAD A3
C211036-10-03-46 REV-0	



TYPICAL SECTION

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWINGS.
3. ROAD / HIGHWAY CROSSING SHALL BE RESTORED TO ORIGINAL CONDITION TO THE ENTIRE SATISFACTION OF OWNER AND CONCERNED AUTHORITIES HAVING JURISDICTION.
4. REFER API RP 1102 FOR OTHER DESIGN AND INSTALLATION REQUIREMENTS.
5. ANGLE OF INTERSECTION BETWEEN PIPELINE AND THE ROAD / HIGHWAY SHALL BE AS CLOSE TO 90° AS POSSIBLE BUT IN NO CASE LESS THAN 30°.
6. CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSION WITH RESPECT TO SURVEY DETAILS OF EACH ROAD / HIGHWAY CROSSING AND PREPARE DETAILED DRAWINGS FOR INDIVIDUAL CROSSING TAKE ENGINEER-IN-CHARGE AND CLIENT'S APPROVAL BEFORE COMMENCEMENT OF CONSTRUCTION.
7. THE CASING PIPE SHALL BE OF SIZE MAINTAINED AS PER T.S. FOR PE LAYING.

OWNER :



CENTRAL UP GAS LIMITED

PROJECT :

GI/COPPER INSTALLATION WORKS

TITLE :

ROAD / HIGHWAY CASED CROSSING FOR MDPE PIPE

SCALE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

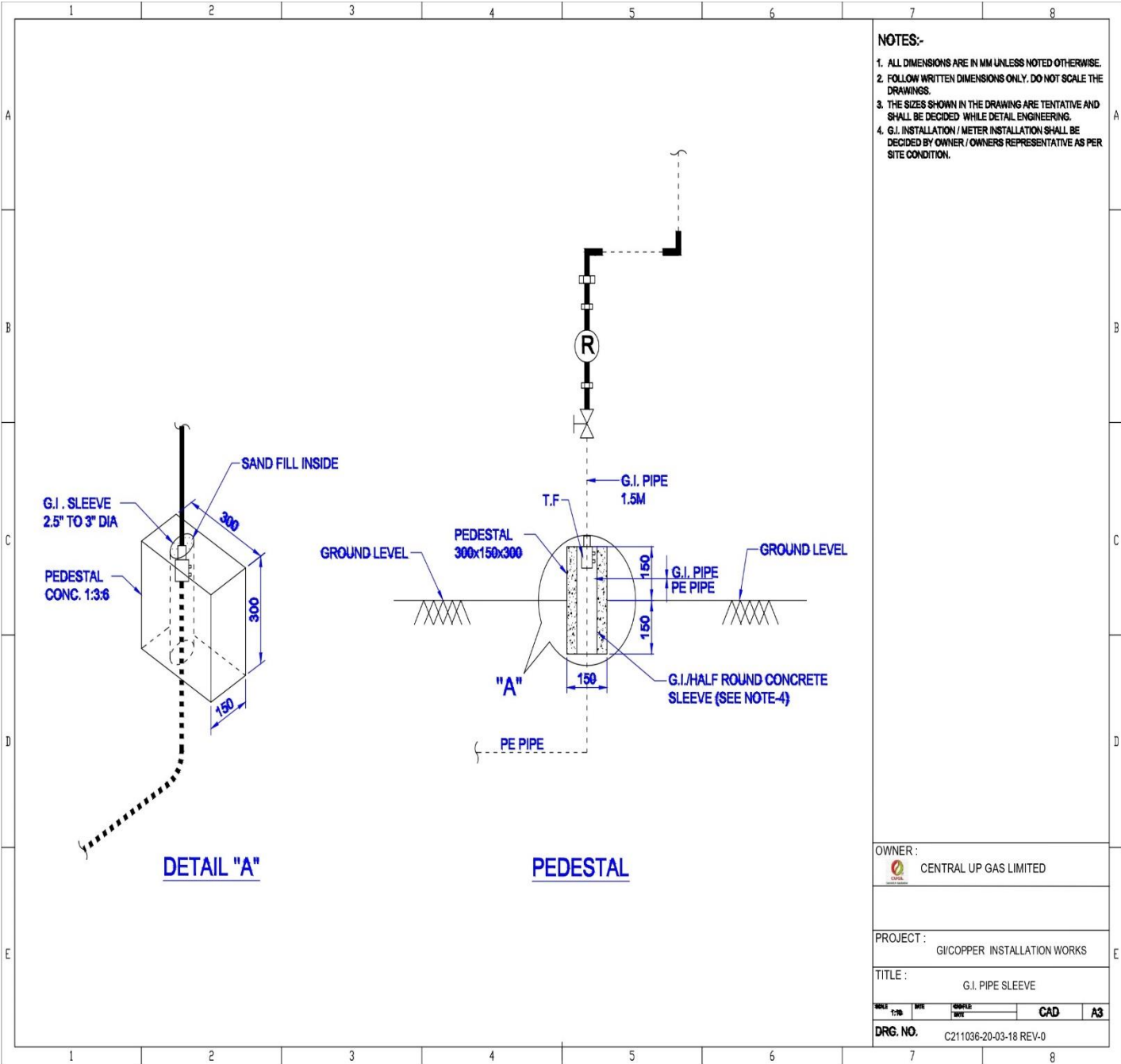
DATE

DRG. NO.


C211036-10-04-23 REV-0

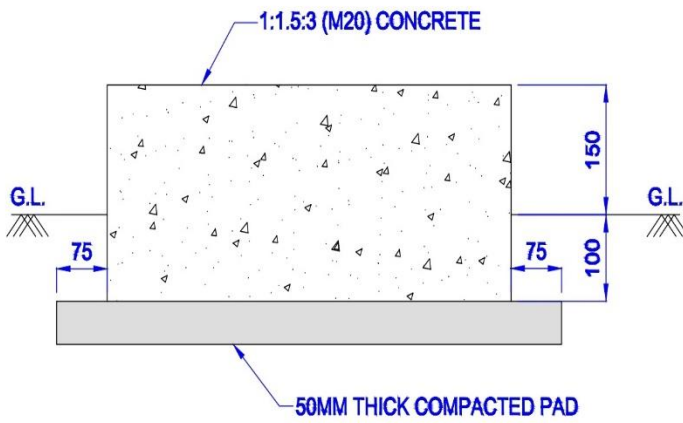
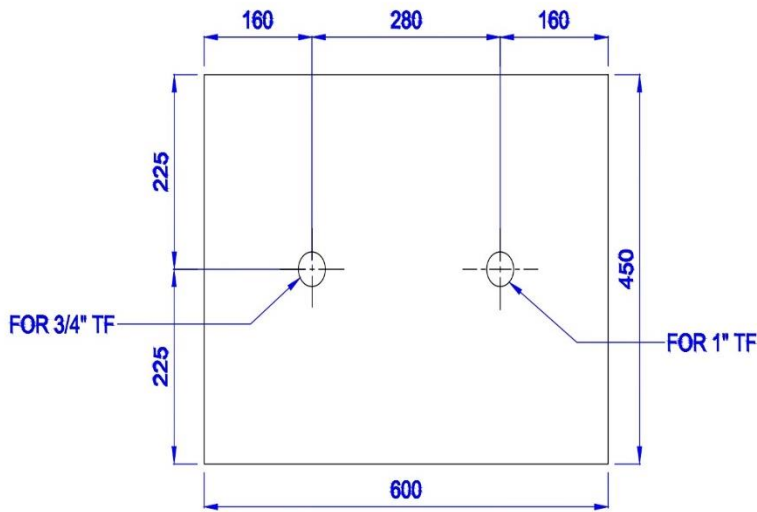
CAD

A3



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWINGS.
 3. THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE AND SHALL BE DECIDED WHILE DETAIL ENGINEERING.
 4. G.I. INSTALLATION / METER INSTALLATION SHALL BE DECIDED BY OWNER / OWNERS REPRESENTATIVE AS PER SITE CONDITION.

OWNER :		 CENTRAL UP GAS LIMITED	
PROJECT :		G/COPPER INSTALLATION WORKS	
TITLE :		G.I. PIPE SLEEVE	
SCALE	DATE	DESIGNED BY	CAD
1:10			A3
DRG. NO.		C211036-20-03-18 REV-0	



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.

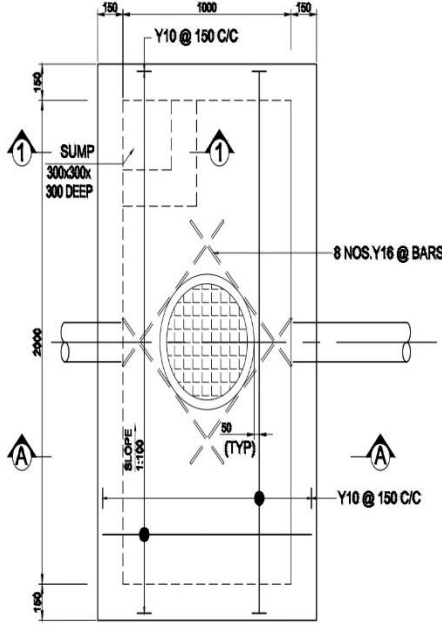
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

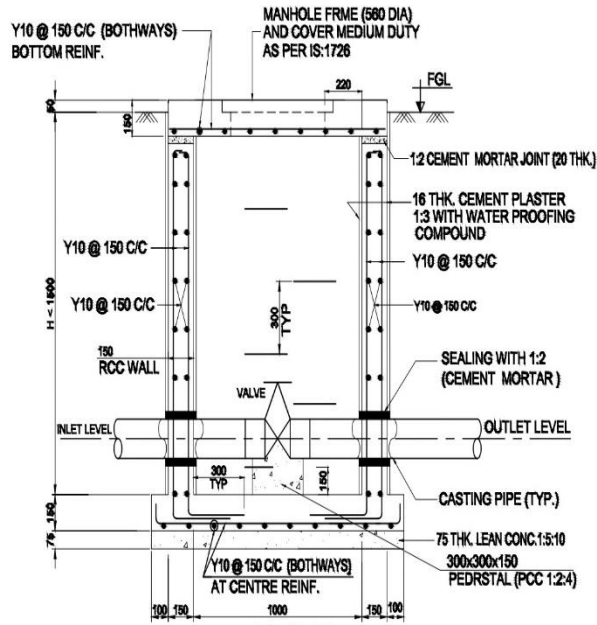
TITLE :
 SCHEMATIC DIAGRAM OF FOUNDATION
 FOR SINGLE STREAM SERVICE REGULATOR

SCALE	DATE	DESIGNED BY	CAD	A3
1:10				

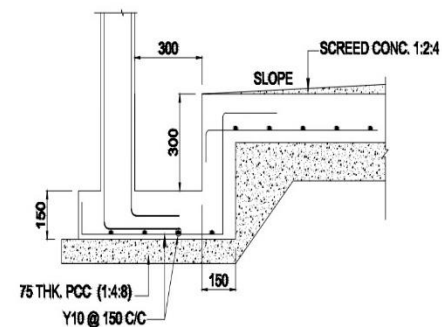
DRG. NO. C211036-20-03-39 REV-0



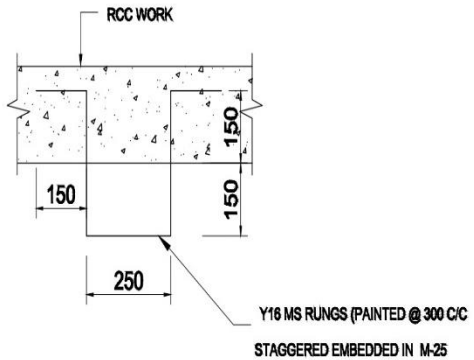
VALVE PIT PLAN
(SCALE 1:20)



SECTION A-A
(SCALE 1:20)



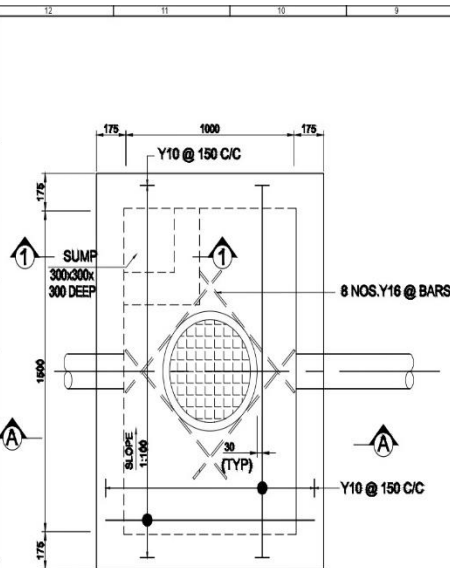
SECTION 1-1
(SCALE 1:10)



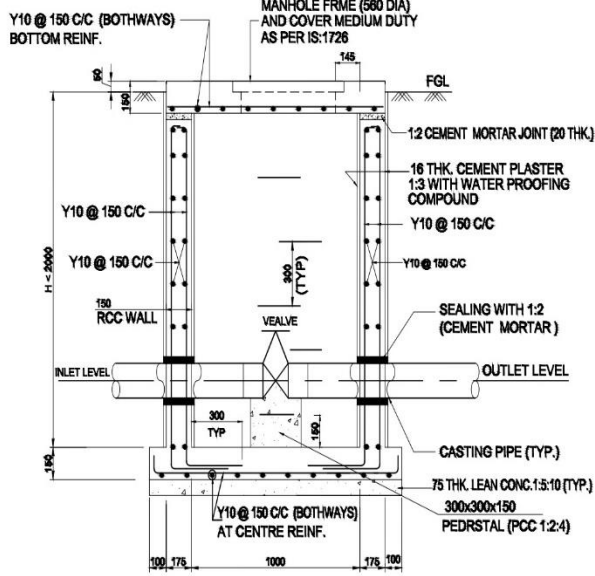
TYPICAL DETAILS OF MS RUNGS
(SCALE 1:10)

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
 3. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE @ 25 TO 30 mm.
 4. GRADE OF CONCRETE USED SHALL BE M-25 CONFORMING.
 5. REINFORCEMENT SHALL BE HYSD BARS OF GRADE Fe-415 CONFORMING TO IS:1786.

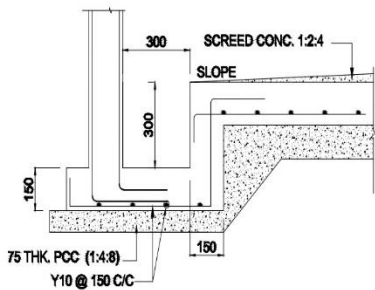
OWNER:		CENTRAL UP GAS LIMITED	
PROJECT:		GI/COPPER INSTALLATION WORKS	
TITLE:		STANDARD DETAIL OF RCC VALVE CHAMBER (TYPE-1)	
DATE AS SHOWN	DATE	SCALE	CAD A3
01-07-2014			
DRG. No.1007-20-03-20 REV-0			



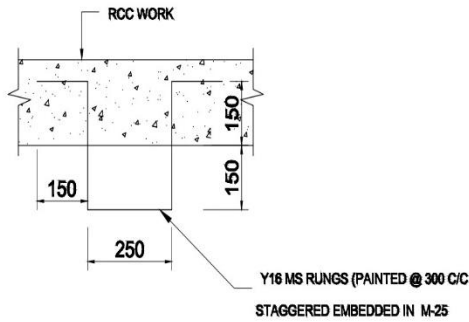
VALVE PIT PLAN
(SCALE 1:20)



SECTION A-A
(SCALE 1:20)



SECTION 1-1
(SCALE 1:10)

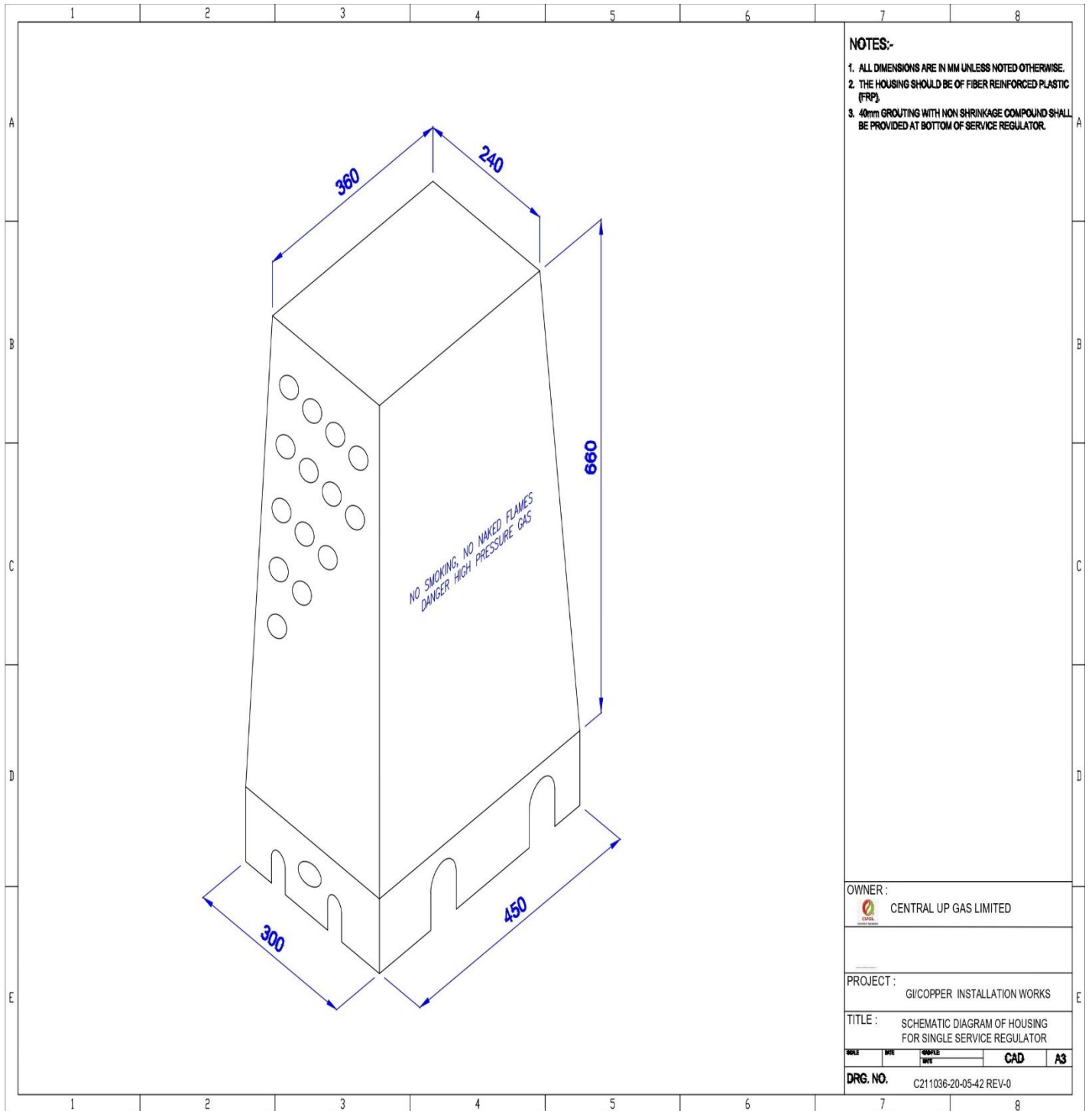


TYPICAL DETAILS OF MS RUNGS
(SCALE 1:10)

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
3. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE @ 25/30/20mm
4. GRADE OF CONCRETE USED SHALL BE M-25 CONFORMING.
5. REINFORCEMENT SHALL BE HYSD BARS OF GRADE Fe-415 CONFORMING TO IS:1786.

OWNER:	CENTRAL UP GAS LIMITED		
PROJECT:	GI/COPPER INSTALLATION WORKS		
TITLE:	STANDARD DETAIL OF RCC VALVE CHAMBER (TYPE-2)		
DATE AS SHOWN:	DATE: 01.07.14	DRAWN BY:	CAD A3
DRG. No. 1007-20-03-21 REV-0			



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. THE HOUSING SHOULD BE OF FIBER REINFORCED PLASTIC (FRP).
3. 40mm GROUTING WITH NON SHRINKAGE COMPOUND SHALL BE PROVIDED AT BOTTOM OF SERVICE REGULATOR.

OWNER :



CENTRAL UP GAS LIMITED

PROJECT :

GI/COPPER INSTALLATION WORKS

TITLE :

SCHEMATIC DIAGRAM OF HOUSING FOR SINGLE SERVICE REGULATOR

SCALE :

DATE :

DRG/FILE :

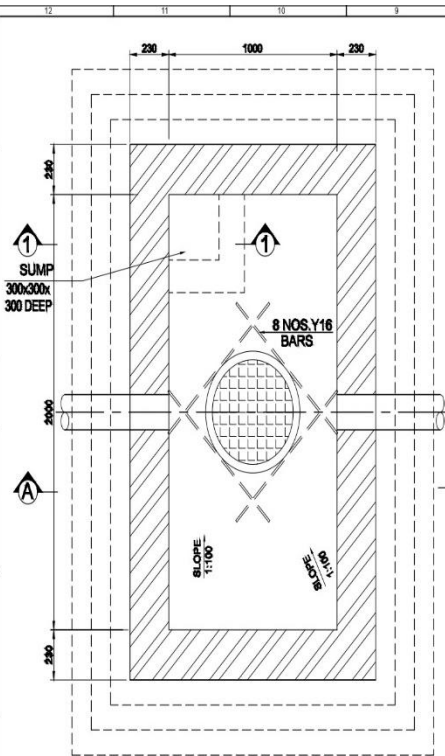
NO :

CAD

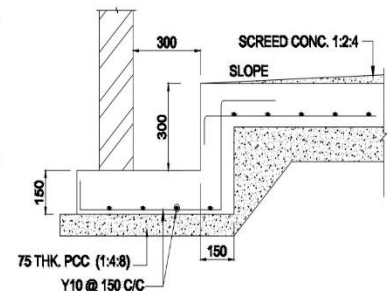
A3

DRG. NO.

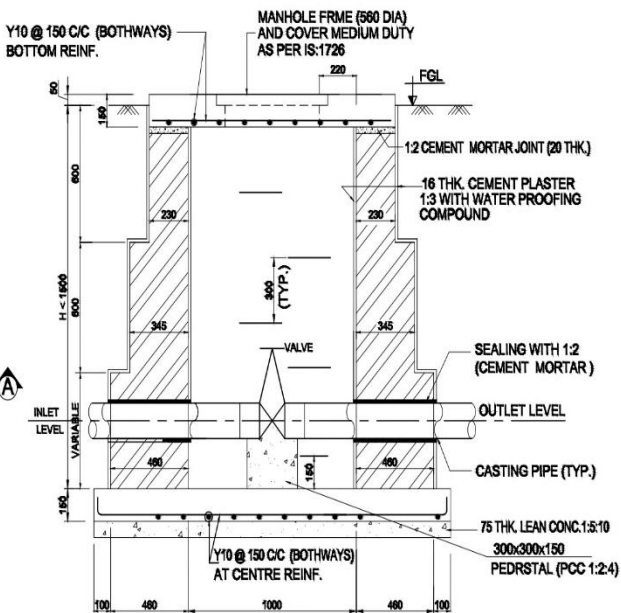
C211036-20-05-42 REV-0



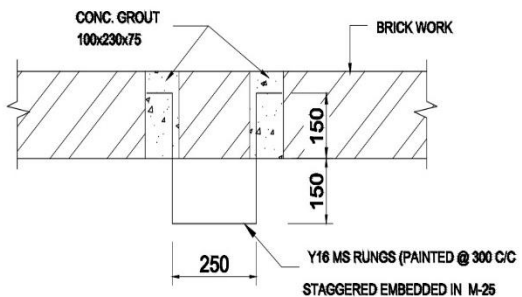
VALVE PIT PLAN
(SCALE 1:20)



SECTION 1-1
(SCALE 1:10)



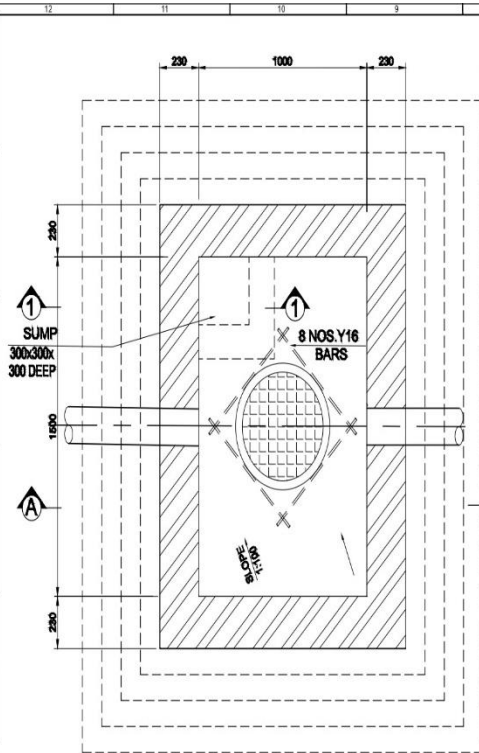
SECTION A-A
(SCALE 1:20)



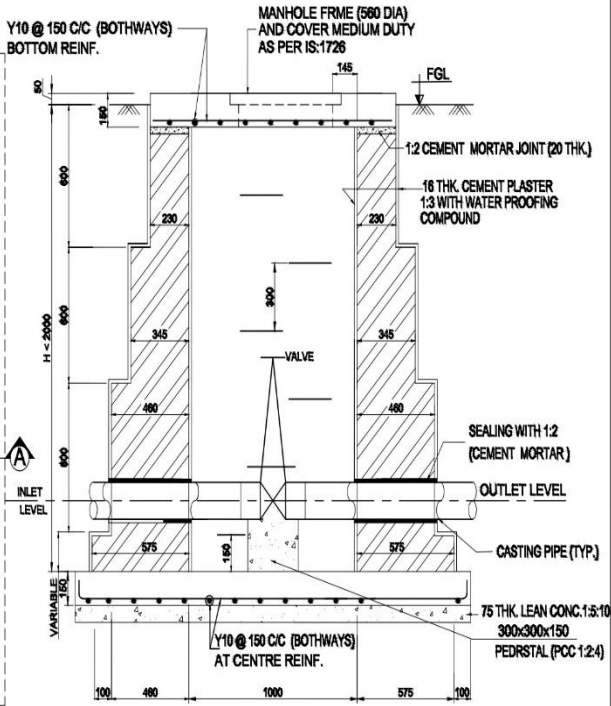
TYPICAL DETAILS OF MS RUNGS
(SCALE 1:10)

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
 3. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE @ 25 SLAB 20mm
 4. GRADE OF CONCRETE USED SHALL BE M-25 CONFORMING.
 5. REINFORCEMENT SHALL BE HYSD BARS OF GRADE Fe-415 CONFORMING TO IS:1786.

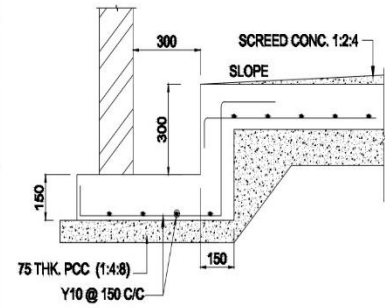
OWNER:		CENTRAL UP GAS LIMITED	
PROJECT:		GI/COPPER INSTALLATION WORKS	
TITLE:		STANDARD DETAIL OF BRICK VALVE CHAMBER (TYPE-1)	
DATE:	BY:	DATE:	BY:
AS SHOWN	01-07-2014	TYPE:	CAD A3
DRG. No. 1007-20-03-21 REV-0			



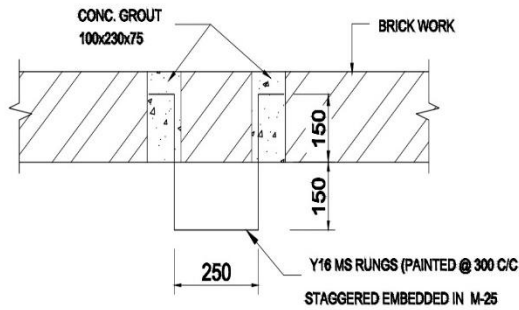
VALVE PIT PLAN
(SCALE 1:20)



SECTION A-A
(SCALE 1:20)



SECTION 1-1
(SCALE 1:10)

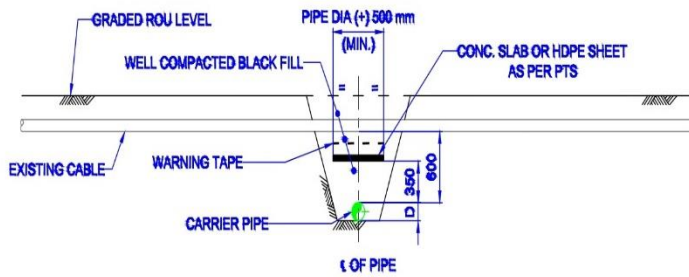
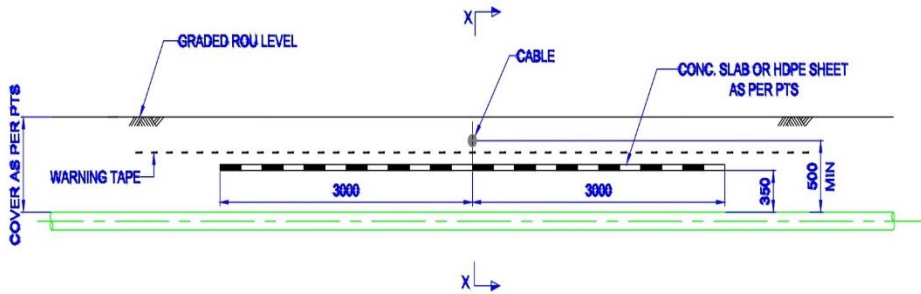


TYPICAL DETAILS OF MS RUNGS
(SCALE 1:10)

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
3. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE @ 25 SLAB 20mm.
4. GRADE OF CONCRETE USED SHALL BE M 35 CONFORMING.
5. REINFORCEMENT SHALL BE HYSD BARS OF GRADE Fe 415 CONFORMING TO IS:1786.

OWNER:		CENTRAL UP GAS LIMITED	
PROJECT:		GI/COPPER INSTALLATION WORKS	
TITLE:		STANDARD DETAIL OF BRICK VALVE CHAMBER (TYPE-2)	
SCALE AS SHOWN	DATE 01-07-2014	CAD	A3
DRG. No. 1007-20-03-21 REV-0			



SECTION X-X

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWINGS.
3. A MODIFIED PIPELINE WARNING SIGN SHALL BE INSTALLED CLOSE TO THE CROSSING.
4. IN CASE OF ARMoured OFC CABLE, C.P. BONDING IS TO BE PROVIDED BETWEEN PIPELINE AND CABLE ARMOUR. IN CASE OF UNARMoured CABLE, ARRANGEMENT FOR SHIELDING (BY PROVIDING CASING ON EITHER SIDE OF THE PIPELINE OR CABLE) SHALL BE CONSIDERED.
5. APPROVAL OF THE CROSSING SHALL BE OBTAINED FROM CONCERNED AUTHORITIES.

OWNER :



CENTRAL UP GAS LIMITED

PROJECT :

GI/COPPER INSTALLATION WORKS

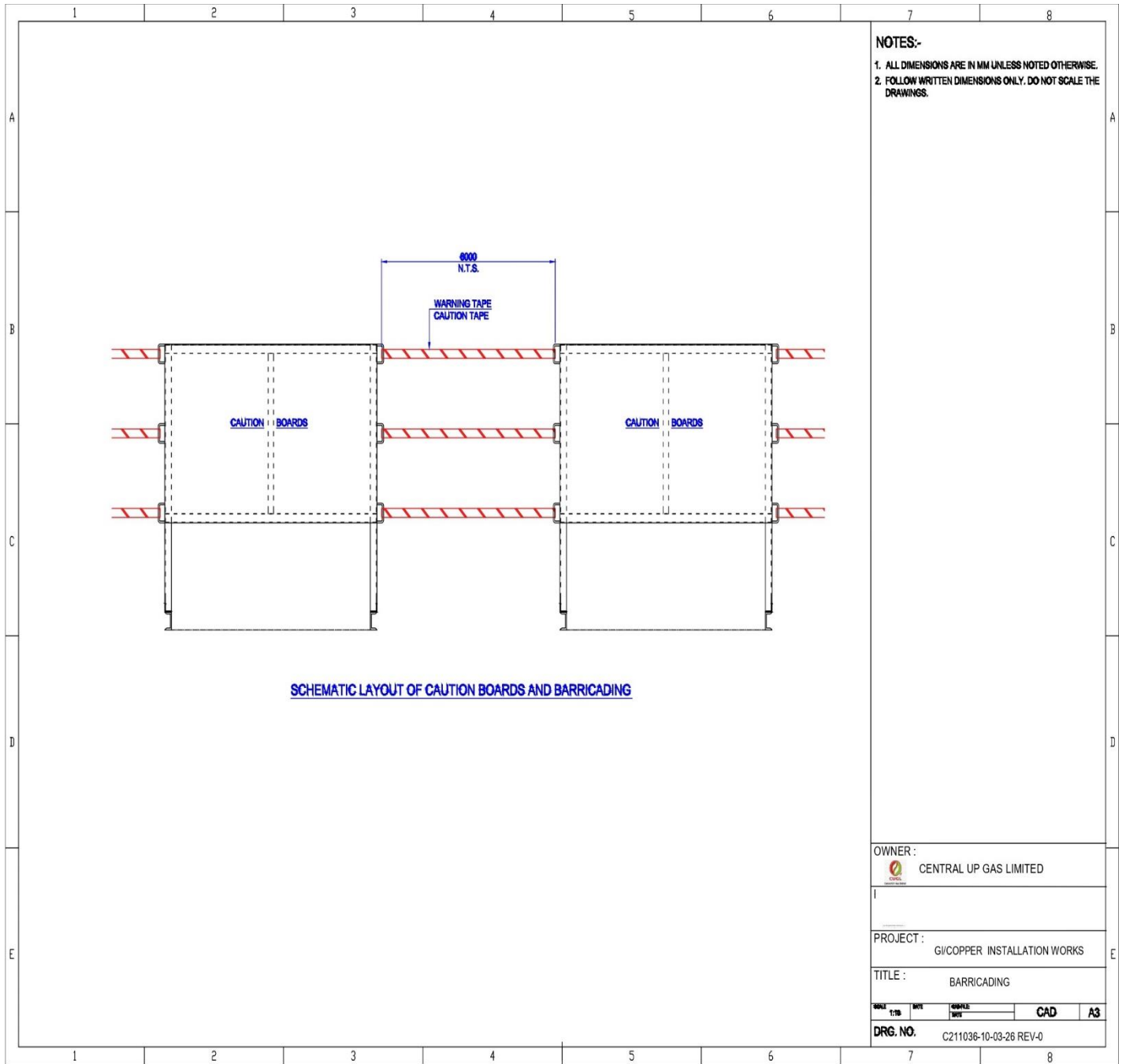
TITLE :

TYPICAL UNDERGROUND CABLE CROSSING DETAILS

SCALE	DATE	DRAWN	CHECKED	CAD	A3
1:10					

DRG. NO.

C211036-10-03-24 REV-0



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWINGS.

OWNER :



CENTRAL UP GAS LIMITED

PROJECT :

GI/COPPER INSTALLATION WORKS

TITLE :

BARRICADING

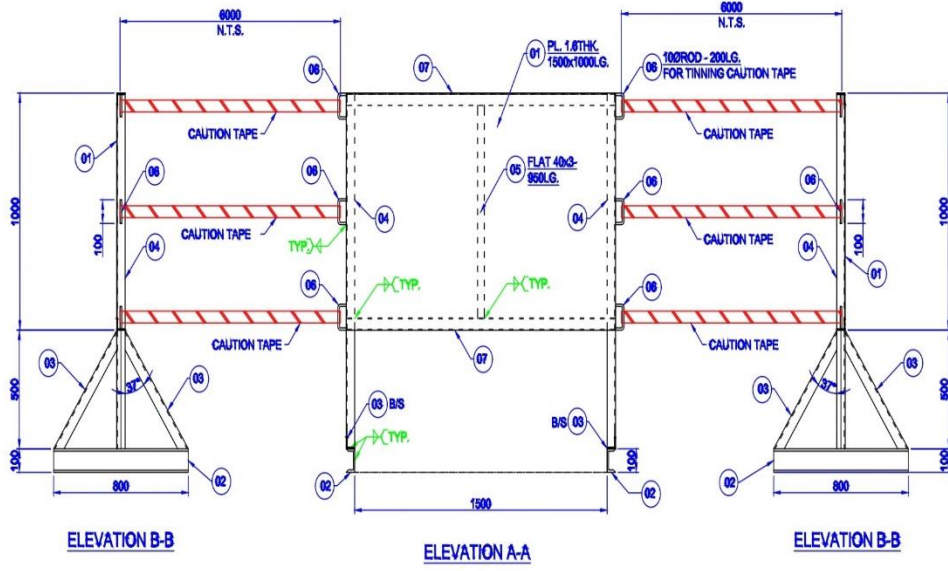
SCALE :

1:10

CAD A3

DRG. NO.

C211036-10-03-26 REV-0



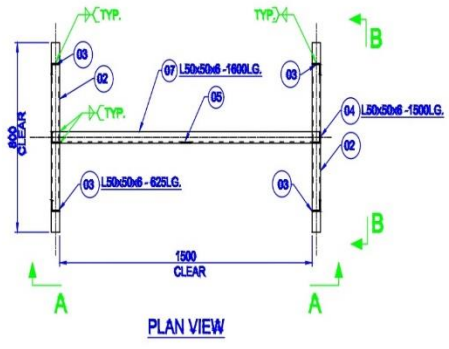
IN RED → **CAUTION** ← CLIENT LOGO

WORK IN PROGRESS

IN BLACK {

LAYING OF NATURAL GAS PIPELINE
 CLIENT - OWNERS NAME
 CONTRACTOR NAME:
 DATE OF COMMENCEMENT:
 DATE OF COMPLETION:
 EMERGENCY PHONE NOS:

TO BE PRINTED ON ITEM NO. 01



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWINGS.

BILL OF MATERIAL						
Item	Section	Width	Length	Item Qty.	Weight	Total Weight
				(All Metric)	Kgs./MTR	In Hqs.
1.	PL 1.6 THK	1600	1000	1	12.58	20.10
2.	ISMC 100	-	800	2	9.20	14.72
3.	L50x50x6	-	625	4	4.50	11.25
4.	L50x50x6	-	1500	2	4.50	13.50
5.	Flat 3Ttk	900	40	1	0.94	0.03
6.	100 Rod	-	200	6	0.62	0.74
7.	L50x50x6	-	1600	2	4.50	14.40
Grand Total (Kg)						74.74

OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

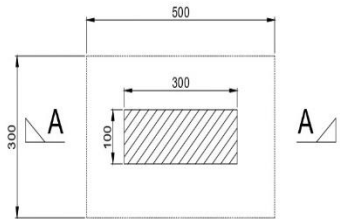
TITLE :
 CAUTION BOARD & TAPE ARRANGEMENT
 IN G.I. RISER INSTALLATION

SCALE : 1:10 DATE: _____ DRAWN BY: _____ CHECKED BY: _____ **CAD A3**

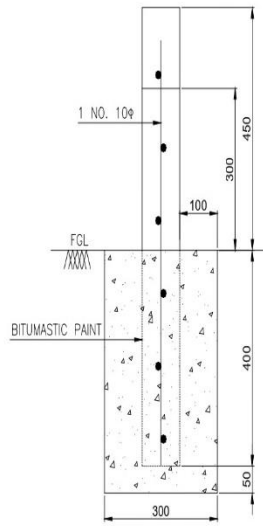
DRG. NO. : C211036-10-03-26 REV-0



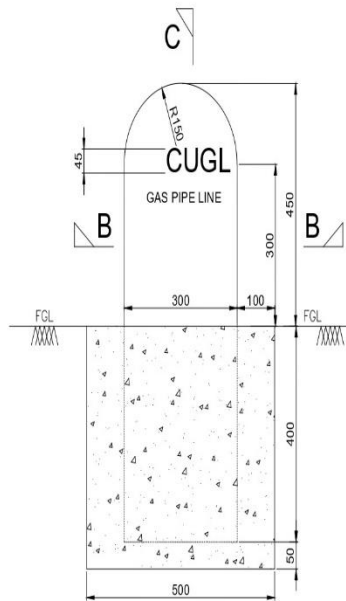
SECTION - B-B



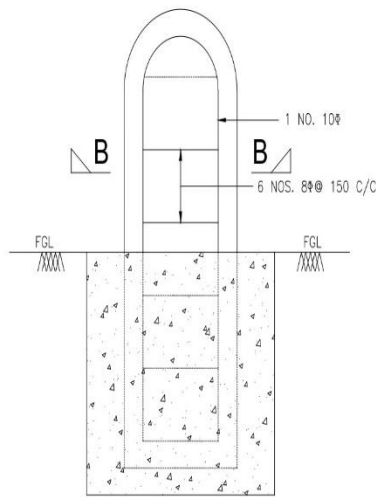
PLAN



SECTION - C-C



**SECTION - A-A
(FOR DIMENSION)**



**SECTION - A-A
(FOR REINFORCEMENT)**

NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.
3. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE (a) SLAB 20mm.
4. GRADE OF CONCRETE USED SHALL BE M-25 CONFORMING.
5. REINFORCEMENT SHALL BE HYSD BARS OF (GRADE Fe 415) CONFORMING TO IS:1786.

0	ISSUED FOR CONSTRUCTION	AK	NA	HK	
REV.	DATE	DESCRIPTION	PREP.	CHKD.	APPD.
CLIENT: CENTRAL UP GAS LIMITED					
PROJECT: CITY GAS DISTRIBUTION PROJECT					
SCALE	TITLE				
NTS	RCC ROUTE MARKER				
SIZE	CLIENT JOB NO.	DRAWING NUMBER	SHEET	REV.	
A3	1036		1 OF 1	0	