



Office of RUDSICO, External Aided Project (RUIDP)
Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Ltd (RUDSICO)
{Erstwhile Rajasthan Urban Infrastructure Finance and Development Corporation Ltd}
Head Quarter Address:-Old Working Women Hostel, Behind Nehru Palace, Tonk Road Jaipur
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No. F3 (201)(57)/RUIDP/PMU/Ph-III/CMS/ 8820

Date: .10.2021

15/11/2021

Sub: Construction Management System: Circular-19

Ref: Guidelines for procedure to be adopted during execution of Sewerage & Water supply works.

Earlier issued CMS circular no. 9 regarding Standard Operating Procedure (SOP) for laying of pipe line under RUDP issued vide no 536-541 dated 12.4.2018.

Proactive approach has to be adopted by PIU/ Consultant/ Contractor's Engineer in identification of lanes/roads where either both the pipe line (Water Supply/Sewer) or only sewer pipe line or only water line is proposed to be laid, so as to ensure least inconvenience to the stakeholders and proper placing of the pipelines in such lanes/roads. In this regard, following guidelines are issued:

1. Following shall be marked on drawings on or before 7 days from tentative start date of work at site and submitted to ER and PIU:
 - i. Micro topography survey of road/ lane shall be done in which width of houses, location of drainages of each households, entry gate location of households etc. to be marked;
 - ii. Levels from Temporary Bench Mark (TBM) shall be transferred and mentioned at each crossing of road by specific colour;
 - iii. Underground and over ground utilities shall be superimposed and to be mentioned which will be verified at site by trial pit before any execution.
 - iv. Sewer/water lines shall be marked in such a way that least damage of existing utilities happen during execution.
 - v. Manholes & Inspection Chambers (ICs) shall be marked according to drainage outlets of households so that house is connected in minimum length.
 - vi. Ring heights of manholes which are to be constructed at site shall be decided and marked on drawings so that constructed manholes are matched to the road level.
 - vii. Traffic diversion sign locations, if any, should be mentioned.
2. Drawings of each road/lane (typical 3 nos. drawings for laying of water supply or/ & sewer line are attached as Annexure "A" for reference) shall be prepared by contractors incorporating all the features including invert level and ground level (in case of sewer lines) and shall be forwarded to ACM & PIU head for their approval.

3. Checklist attached as Annexure "B" shall be maintained at each line (separate for sewer and water as per the work) by contractor and shall be regularly monitored and verified by PIU & Consultants.
4. ACM & PIU head shall ensure that drawings provided by contractor are in line with field and design data of the project. Approved drawings shall be forward to contractor's engineer, Support Engineer and AEn/JEn of the concerned site, who shall strictly comply the issued drawings.
5. A register shall be maintained incorporating all above activities at PIU level which shall be monitored by PIU/consultant head in the town to ensure the timely progress of work.
6. Awareness programme shall be organised by PIU before start of work/during execution work in particular road/lané for information dissipation and public participation through CAPC & SOT and to ensure minimum inconvenience to local residents.
7. A board shall be placed at site during execution mentioning details of work, start date, completion date, contact person's name & mobile number of PIU/ER/Contractor, toll free number for any grievances.
8. Complaints received on toll free number shall be registered and complaint number shall be given to each complainant with expected time of resolution. Grievance redressal mechanism shall be monitored by PIU closely.

This circular shall be strictly abided by PIUs, Consultants and Contractors.


(Dr. Hemant Kumar Sharma)
Addl. Project Director
Date: 15.11.2021

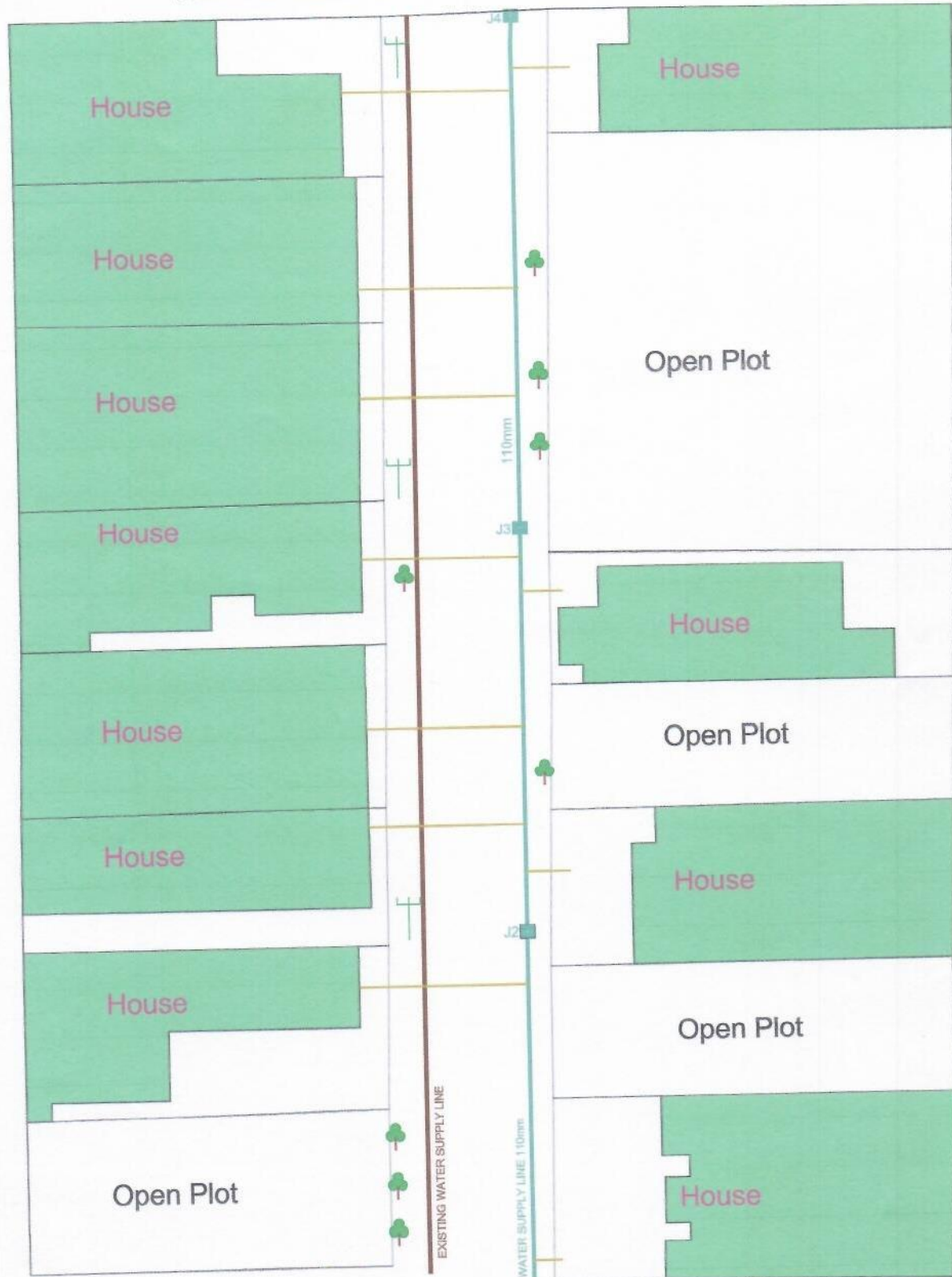
No. F3 (201)(57)/RUIDP/PMU/Ph-III/CMS/ 8821-25

Copy to following for information and necessary action:

1. PA to PD/Addl. PD/ FA/ CE/ ACE/SEs/POs/APOs, PMU, RUIDP, Jaipur
2. SE, PIU, Pali/Tonk/Sriganaganagar/Jhunjhunu/Bhilwara/Hanumangarh/Kota/Ratangarh/ Sirohi/ Kuchaman/ Banswara
3. EE, PIU, Sawai Madhopur/ Bikaner/ Udaipur/ Jhalawar/ Mt. Abu/Banswara/ Mandawa
4. Team Leader/ CM/ Dy. CM/ACM, PMDSC/ PSC/PMCBC/CMSC-1/CMSC-2, Jaipur/Jodhpur/ Pali/ Tonk/ Sriganaganagar/ Jhunjhunu/ Bhilwara/ Hanumangarh/ Kota/ Sawai Madhopur/ Bikaner/ Udaipur/ Jhalawar/ Mt. Abu/ Banswara/ Ratangarh/ Sirohi/ Kuchaman/ Banswara/ Khetri/ Mandawa
5. ACP, RUIDP, Jaipur to send by e-mail and put up the Guidelines on the website.


Dy. PD(T) & ACE

Typical drawing for Water Supply Pipe Line Layout



Site Engineer
Contractor

Support Engineer
PMDSC

J.En.
PIU

LEGEND:-

B. Only Water line is to be laid:

Name of area/lane : _____ (__Junction point (JP) to __JP)

S. N.	Activity Name	Name of executing team from contractor	Date
1.	Road cutting		
2.	Road excavation		
3.	Pipe laying		
4.	HSC		
5.	Refilling & consolidation		
6.	Network testing		
7.	WBM/ PCC		
8.	Zero flow test		
9.	Installation of meter		
10.	Final wearing surface		

Site Engineer
Contractor

Support Engineer
PMDSC

J.En.
PIU

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J.En.
PIU

C. Water & Sewer line is to be laid:

Name of area/lane : _____

(__node to __node)

(__Junction point (JP) to __JP)

S. N.	Activity Name	Name of executing team from contractor	Date
1.	Sewer line Road cutting		
2.	Sewer line Road excavation		
3.	Sewer Pipe laying		
4.	Sewer Pipe testing		
5.	Refilling & consolidation		
6.	Manhole construction		
7.	Manholes testing		
8.	Water pipe line Road cutting		
9.	Water pipe line Road excavation		
10.	Water Pipe laying		
11.	HSC		
12.	Refilling & consolidation		
13.	Water Pipe Network testing		
14.	PVCu & IC work		
15.	PVCu & IC testing		
16.	WBM/ PCC		
17.	Zero flow test		
18.	Installation of meter		
19.	Final wearing surface		
20.	Flow test of sewer network		
21.	Commissioning of water network		

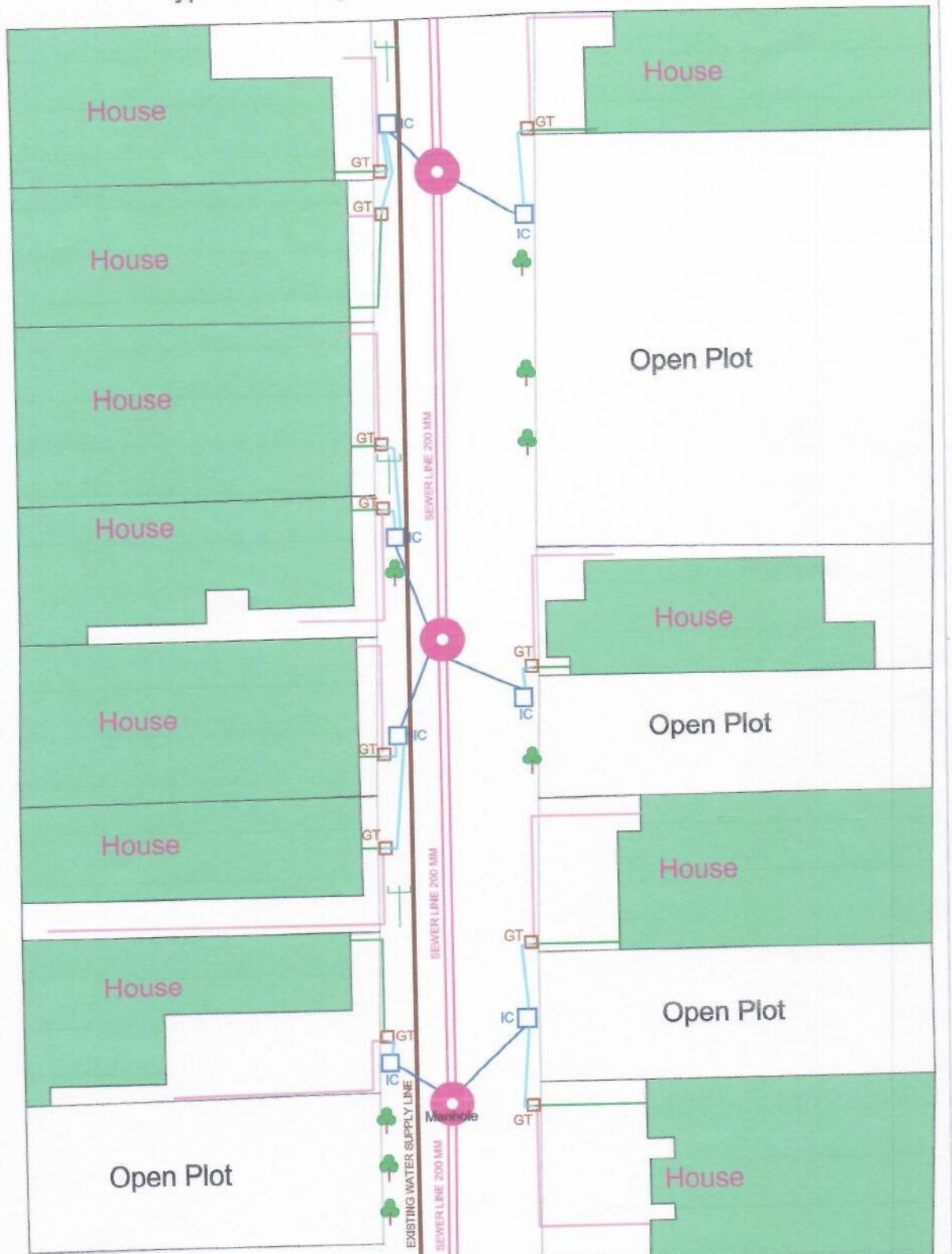
Site Engineer
Contractor

Support Engineer
PMDSC

J.En.
PIU

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Typical drawing for Waste Water Pipe Line Layout



Site Engineer
Contractor

Support Engineer
PMDSC

J.En.
PIU

LEGEND:-	
	INSPECTION CHAMBER (IC)
	GULLY TREP
	MANHOLE
	SEWER LINE
	KITCHEN LINE
	WC LINE
	GULLY TREP TO IC
	IC TO MANHOLE

A. Only sewer line is to be laid:

Name of area/lane : _____ (node to node)

S. N.	Activity Name	Name of executing team from contractor	Date
1.	Road cutting		
2.	Road excavation		
3.	Pipe laying		
4.	Pipe testing		
5.	Refilling & consolidation		
6.	Manhole construction		
7.	Manholes testing		
8.	PVCu & IC work		
9.	PVCu & IC testing		
10.	WBM/ PCC		
11.	Final wearing surface		

Site Engineer
Contractor

Support Engineer
PMDSC

J.En.
PIU

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RUIDP					
Name of Work :					
Town :					
Contract No. :					
Agency :					
CHECK LIST FOR SEWER LINE					
Site Incharge has to ensure the following Before/During the work in his site.					
Name of Site Engineer :			Name of Surveyor :		
S.No.	DESCRIPTION	DATE	Yes / No	REMARKS	
1	LINE No.		L-	Dia of Pipe =	Type of Pipe=
2	Manhole No. (From-To)			U/S = MH-	D/S = MH-
3	Location				
4	Sewer Line Instruments	Auto Level / Staff=			
5	Design Drawing				
6	Design Sheet				
7	Marking of Layout				
8	Existing Ground Level			Existing U/S =	Existing D/S =
9	Trench Excavation	Av. Depth =	BT =	CC =	WBM =
10	Invert Level			U/S =	D/S =
11	Bedding			Type of Bedding =	
12	Pipe Laying			No. of Pipes=	Pipe Length=
		Pipe Slope=		Pipe Straightness=	
13	Back Filling				
i	Compaction			No. of Layers =	Layer Thickness =
ii	Water Pouring				
14	Lead for Surplus Material		Location =		
Note: Cross section and L-section shall be drawn on the back side of check list (NTS)					
Quality Engg. Agency Site Incharge Agency Supp. Engg PDMC/PSC ACM				J.E /AE PIU E.E PIU	

Name of Work							
Town							
Contract No.							
Agency							
Check List for L & J of water Pipeline							
Site Incharge has to ensure the following Before/During the work in his site							
Name of site Engineer				Name of Surveyor			
S.No.	Description	Date	Yes/Not	REMARKS			
1	Zone/DMA No.						
2	Pipe No.						
3	Node to Node No.			Length=	Dia=	Type of Pipe	
4	Location						
5	Drawing No.						
6	Marking of layout						
7	Trench Excavation			AV.Depth=	BT=	CC=	WBM=
8	Earth Cover			Ht.=			
9	Nos. Of Coupler						
10	Nos. Of HSC						
11	Interconnections						
12	Nos. of Isolation Valve						
13	Nos. Step Valve						
14	Nos. Circulatory valves						
15	Hydrotesting						
16	Back Filling						
16-i	Compaction						
16-ii	Water Pouring			Nos. of Layer		Layer Thickness	
After completion of L & J							
17	Zero flow test						
18	Step test						
19	Disinfection Test						
20	Cnnection Swapping						
21	NRW Achieved			NRW %=			

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Website: -www.ruidp.rajasthan.gov.in

No. F3 (201)(57)/RUIDP/PMU/Ph-III/CMS/ 9015

Date: 18.11.2021

Sub: Construction Management System: Revised Circular-19
Ref: CMS Circular-19 issued vide letter no. 8820 dated 15.11.2021

In continuation to earlier issued CMS Circular-19 vide above referred letter, drawings attached with annexure "A" as page 3 of 6 & 5 of 6 are replaced with revised drawings as annexure- "A" & "B" which are attached herewith.

Encl: as above


(Dr. Hemant Kumar Sharma)
Addl. Project Director

No. F3 (201)(57)/RUIDP/PMU/Ph-III/CMS/ 9016-21

Date: 18.11.2021

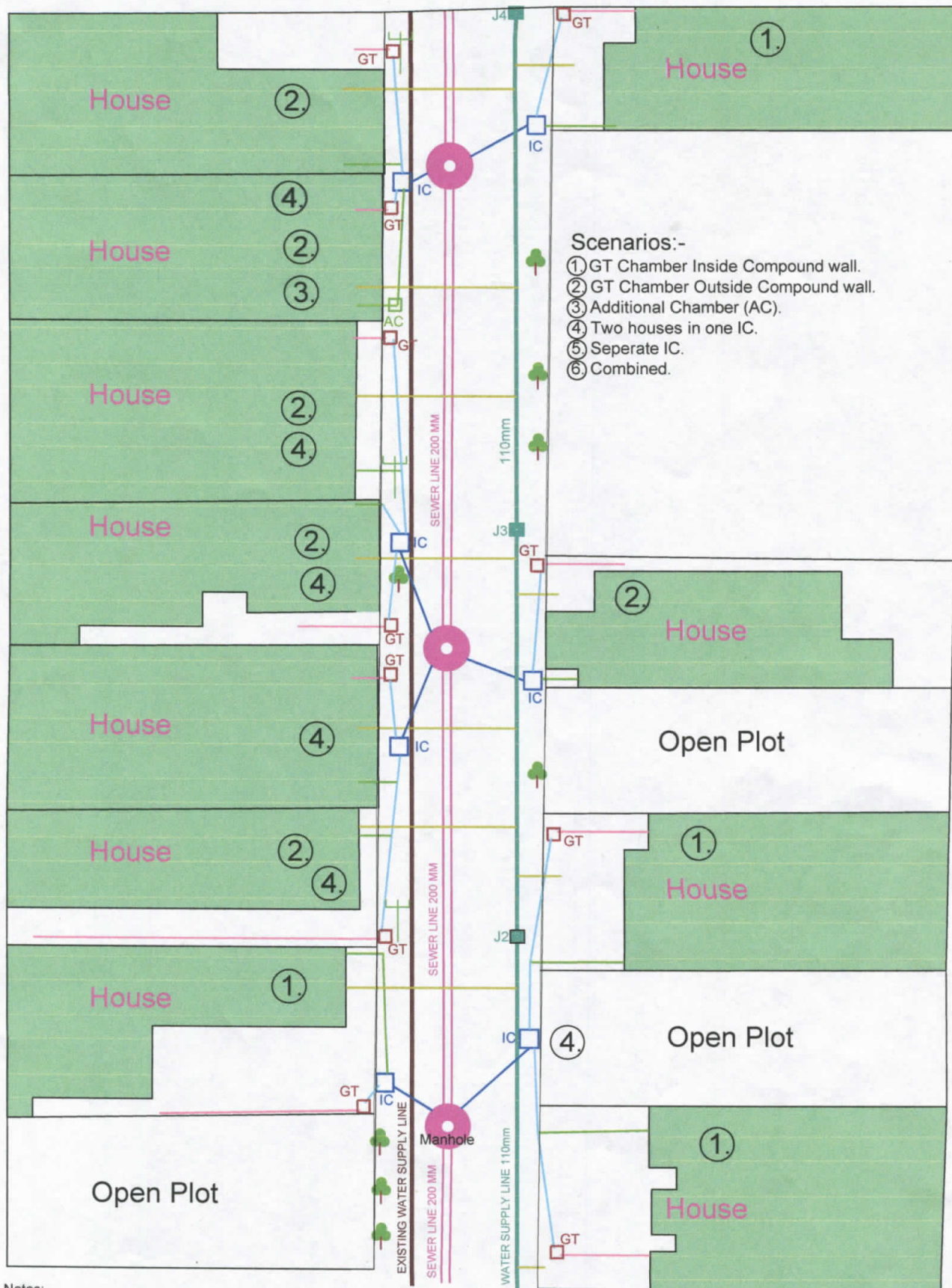
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5. ACP, RUIDP, Jaipur to send by e-mail and put up the Guidelines on the website.


Dy. PD(T) & ACE

Typical drawing for Water and Waste Water Pipe Line Layout

Annexure-A



Notes:-

1. This is ideal typical drawing, shall be modified as per site situation.
2. Bath & Kitchen lines should have "G" trap.
3. All W/C connection shall be connected to Bath & W/C line after "G" trap chamber by using Y - Connection / additional Chamber as per site requirement.
4. Preferably elbows should be avoided & bends should have cleaning eye for exposed line above ground.

LEGEND:-

- INSPECTION CHAMBER (IC)
- GULLY TREP
- ADDITIONAL CHAMBER
- MANHOLE
- SEWER LINE
- KITCHEN / BATH LINE
- WC LINE
- GULLY TREP TO IC
- IC TO MANHOLE
- JUNCTION
- WATER SUPPLY LINE
- EXISTING WATER LINE
- WATER CONNECTION
- ROAD BOUNDARY / COMPOUND WALL

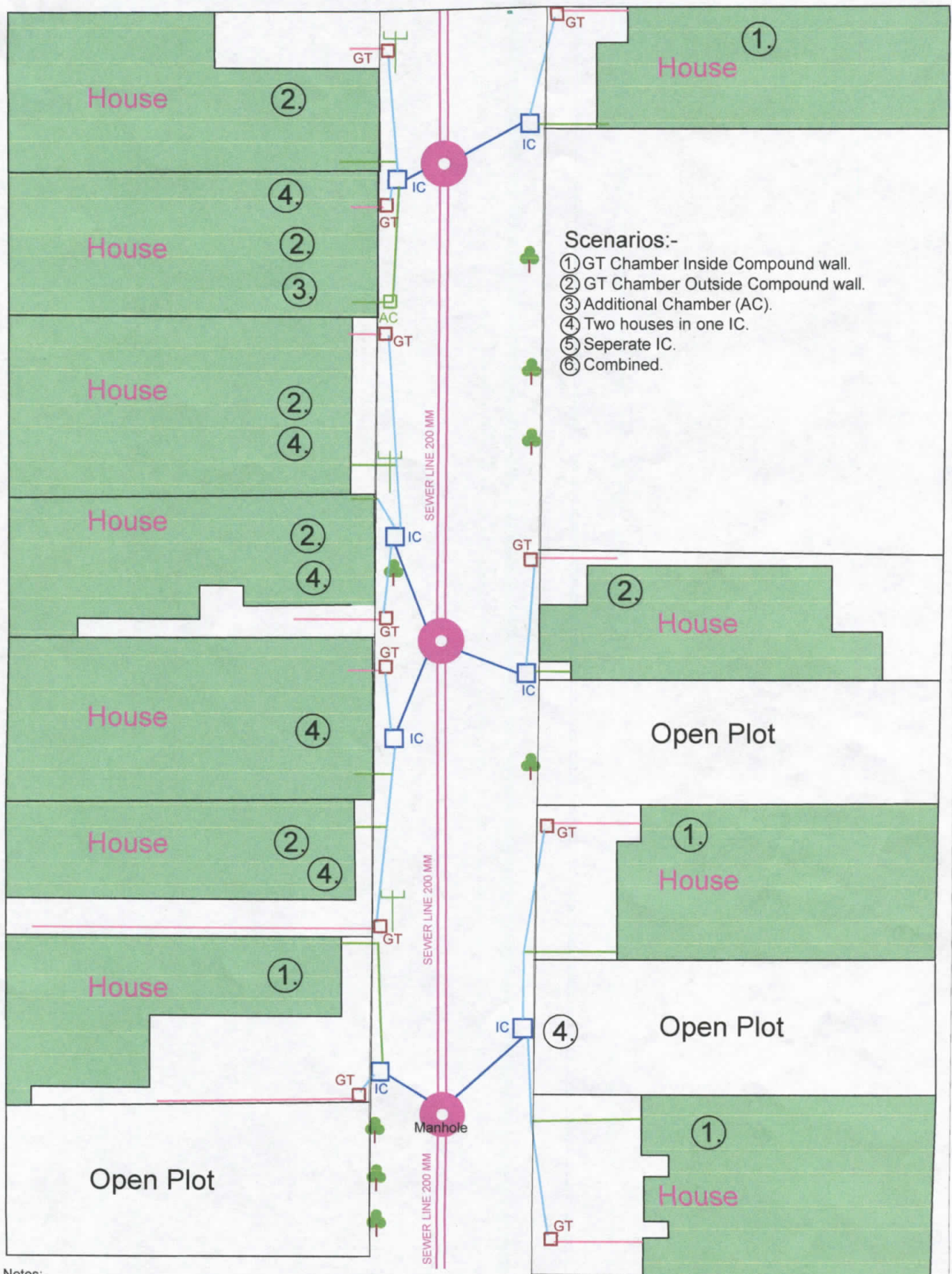
Site Engineer
Contractor

Support Engineer
PMDSC

J.En.
PIU

Typical drawing for Waste Water Pipe Line Layout

Annexure-B



Notes:-

1. This is ideal typical drawing, shall be modified as per site situation.
2. Bath & Kitchen lines should have "G" trap.
3. All W/C connection shall be connected to Bath & W/C line after "G" trap chamber by using Y - Connection / additional Chamber as per site requirement.
4. Preferably elbows should be avoided & bends should have cleaning eye for exposed line above ground.

LEGEND:-

- INSPECTION CHAMBER (IC)
- GULLY TREP
- ADDITIONAL CHAMBER
- MANHOLE
- SEWER LINE
- KITCHEN / BATH LINE
- WC LINE
- GULLY TREP TO IC
- IC TO MANHOLE
- ROAD BOUNDARY / COMPOUND WALL

Site Engineer
Contractor

Support Engineer
PMDSC

J.En.
PIU