Steps for Drawing
the Architectural Plan in DWG Format
as per AutoDCR Software Requirements

RuleBuddy
Architect's trusted associate

SoftTech Engineers Ltd.

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1. Introduction to Drawing Formatting Tool Drafting

Drawing Formatting Tool is software application used to create the architectural plan as per AutoDCR software requirements. It works under AutoCAD environment with additional menu & toolbar.

Using Drawing Formatting Tool commands user can create all the required layers in one click. Once all the layers are created in the drawing user can use AutoCAD commands to draw layout plan. As per AutoDCR requirement all building items like proposed plot, proposed work should be drawn on corresponding layer. Short commands are provided to activate any layer in Drawing Formatting Tool. At any time, user can verify if the drawn entities are properly closed or not, if proper name text has been written inside all closed poly or not etc. Drawing Formatting Tool will highlight all the failed entities if any. Drawing Formatting Tool can be used to modify/make and verify the existing or new proposal drawing as per AutoDCR software requirements. Users are free to use AutoCAD commands and or Drawing Formatting Tool commands to achieve the main purpose which is: ***Drawing the architectural plan in DWG format as per AutoDCR software requirements.*** For Automating the process of Development Control Regulations user/draughtsman/architect have to follow some specifications. The following are the list of specifications that the user should follow.

- Plot layout, detailed floor plan and building section for all the floors should be there in one AutoCAD drawing file. And there must be in 1:1 mt. Scale.
- All building items like proposed plot, proposed work, proposed parking etc. must **be drawn using closed polyline**. (i.e. Every entity must be closed LWPOLYLINE except Center Line of Main Road, Internal Road, Railway Line, Drain line, Water Line and Electric Line).
- Building Sub-Items **must be exactly inside of outer closed polygon as per their place in architectural plan.** This means none of the edge or vertex of inside entity should be drawn outside its container entity.
- For example, Parking or Open Space poly must be exactly inside the main plot poly. Tools are provided in **Drawing Formatting Tool** to verify this check.
- **Every Building Sub-Items should be given a specific/unique name (Text or MText entity) on the same layer & inside the entity poly.** If name not found then AutoDCR will generate the name automatically. Naming Conventions should be followed properly. e.g. Each Room should be given the concerned name Living, Kitchen, Bedroom Etc.
- **Floor Name**: *GROUND FLOOR; TYPICAL FLOOR 1,2 & 5-8; TERRACE FLOOR;* **Floor Items***: Room Names should be given properly without using abbreviations so the software can identify perfect entity. This can be done by Assign name facility provided by the software.*
- Floor Poly line must be having all the Arch details inside it
- User shall use only following kind of entities for Building Items: - LWPOLYLINE / TEXT / MTEXT
- If in a plan two proposed work are mirrored in that case user should provide two separate building plans for each proposed work.
- Proposal drawing must be having _Other Detail poly having the other details to be taken in final printing such as Elevation. Septic Tank Detail etc.

1.1 Types of Proposal

(Separate drawing files are required for Land-division (Sub-div. & Reconstitution) cases and for Building Development Case

1. **Amalgamation**: By drawing initial plots (with unique plot names) on _Plot layer and amalgamated plot on _Reconstitution layer. Give unique name to amalgamated plot on '_Reconstitution' layer.e.g. Recon1.
2. **Land Division (Sub Division)** - By drawing initial plots (with unique plot names) on _Plot layer and subdivided plot on _Subdivision layer. Give unique name to all sub-divided plot on '_sub-division' layer.e.g.SD1, SD2 etc.
3. **Proposed Development or Building Permission** - By drawing plot on plot layer with pwork inside plot having all the Proposed Bldg details
4. **Open Layout** - By drawing main plot (with unique plot names) on _Plot layer and Individual plot on _IndivSubPlot layer. Give unique name to all individual plot .e.g.ID1, ID2 etc. Open layout should contain all layout related entities such as Internal Road, Organized Open Space, Amenity etc drawn inside the Plot poly.

1.2 Drawing Formatting Tool Layers Information

Layer name	Description	Naming Convention	Short Command
_AccessRoad	Draw AccessRoad as a closed polyline with text specifying its width.eg.1.5 m. wide AccessRoad.		R6
_AccessoryUse	AccessoryUses which are allowed in Margins or Layout & Free from FSI should be drawn as a closed polyline with text inside it.	Name of the AccessoryUse can be assigned from Mark>AccessoryUse tool.	SSTR
_ArchProj	Draw Architectural projections such as Chhajjas, Flower-Bed, Cupboards, Lofts, Canopies, Otta and Front Steps as Closed Polyline .By Using "Mark>Arch.Projections" Tool, concerned Text will be inserted automatically inside the polyline. Canopy/porch will come in plot & other projections will come with floor plans.		AP
_AirShaft	Draw a closed poly with Text for Artificial Ventilation Shaft or Duct.		AVD
_Amenity	Draw a closed polyline on "_Amenity" Layer to represent the area for an Amenity		AMN
_Balcony	Draw Each individual Balcony as closed Polyline with Text on same layer. Balcony can be present in: Plot: It must overlap with PWork (if not enclosed) Floor: It must overlap ResiFSI. Enclosed Balcony can be Marked by using Tool "Mark>Balcony > Enclosed"		BL

Layer name	Description	Naming Convention	Short Command
_Building	Building poly is used to group all floor plans and sections of the same Building. (This is just a logical Group of Building). If the Building is Typical for Multiple Pworks or Wings, Naming Convention should be as Below. (Note: Area or size of Building Poly doesn't have any meaning in AutoDCR)	Naming Convention will be provided by Tool> Assign Name A (Bldg.Name) inside Bldg.Poly & A-1 (Bldg.Name) inside Pwork Poly	BLD
_UnitBUA	A Closed poly with Text on this layer represents a BuiltUp Area or Tenement Area. It should cover total area of one Tenement.		CPT
_CommFSI	Draw a closed FSI PolyLine, which is used as a Commercial Purpose.		CMFS
_CompoundWall	Closed polyline of compound wall to be drawn on this layer overlapping plot.	1.5m. high compound wall.	CW
_Contributionlandarea	This layer represent vacant land for contribution of land in new Tp scheame.		
_commonplot	This layer is use for represent common plot at layout level.		
_column	Structural column should drawn in this layer.		
_Door	Door shall be drawn as a closed polyline with Text & specified DoorHeight. (Note: Default DoorHeight will be 2.1 mt.)	D-2.2mt. , D1-2.4 mt.	DR
_Duct	Draw a closed polyline on "_Duct" Layer to represent the Duct.		AVD
_EWS and _LIG	Draw Provisions for EWS-LIG Area as closed polyline on this layer		PROEWS
_ElectricLine	Electric line shall be drawn as open Polyline with Text whose insertion Point lies on the Polyline. (Note : High or Low Voltage capacity must be written at a starting of Text)	High Tension Line	L1
_ExistingRoad	Draw an Existing/Proposed DP Road as a closed Polyline with text inside it. (Note: Road width must be written at a starting of Text)	12.00 m. wd. internal DP Road	R3

Layer name	Description	Naming Convention	Short Command
_ExStructure	Draw an Existing Structure as a closed Polyline with Text inside it.		ES
_Floor	Floor poly should be drawn as a closed Polyline with Text on same Layer. This is just a logical Group of all floor Entities. Direction Ref Circle: Insert Dimension Ref Circle inside each floor poly at the same point. You can insert it on common areas of the bldg. such as lobby, staircase, lift etc. (Note: Area or size of Floor does't have any meaning in AutoDCR) Floor Name: Floor Plan will be automatically link with Section by matching the Floor Name. If the Floor is Typical Floor, It should be Named with Proper Naming convention.	Naming Convention will be provided by Tool>Assign Name>Floor name Name of floor should be in given format: TYPICAL-1,4 FLOOR PLAN TYPICAL-1-5 FLOOR PLAN TYPICAL-2&3 FLOOR PLAN Ground Floor Plan	FLR
_FloorInSection	Section floor poly will represent each floor section with its name inside SectionFloor : Floor Plan will be automatically link with SectionFloor by matching the Floor Name. If the FloorPlan is Typical Floor Plan, It should be Named with Proper Naming Convention.	Inside SectionFloor: SECOND FLOOR, THIRD FLOOR, GROUND FLOOR.	SECF
_GroundLevel	The Ground level line should be drawn as an open polyline in the section poly.		GL
_IndFSI	Draw a closed FSI Polyline, which is used as a Industrial Purpose.		IFSI
_IndivSubPlot	For plotting layout draw individual subplots on '_indivsubplot' layer inside main plot which will be on '_Plot' layer.		
_InternalRoad	Draw Each Internal Road as a Closed Polyline with Centre Line (Ltype-CentreLine) & Single Text inside each.	7.50 m wd. Internal Road	R2
_KharabLand	Draw a closed polyline for a KhrabLand area which is to be deducted from Gross plot area		KHLD

Layer name	Description	Naming Convention	Short Command
_LeftoverOwnersLand	Draw the area left for Owners in Layout plan on '_LeftoverOwnersLand' layer as a closed polyline		LOL
_Lift	A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Lift. Machine Room shall be also drawn in same Layer with Text "Machine Room". (Note: Lift machine Room poly should be drawn as "Dashed" LType)		LFT
_MainRoad	Draw Main Road as a closed Poly with Text, which should be abutting with the Plot closed Poly. (Note: Road width must be written at the starting of Text)	24.00 m wd. Main T.P. Road	R1
_Marginline	Margin Polylines will be created by Drawing Formatting Tool by using Tool "Mark > Margins" (Note: User need not do anything on this layer.)		L3
_MortgageArea	Draw closed polyline on _MortgageArea layer to identify the area to be Mortgaged. which should be marked using Mark>MortgageArea		MORT
_NetPlot	No need to draw NETPLOT. This layer will be auto generated by Drawing Formatting Tool		NPLT
_NotInProposal	Plot area which is not in possession or which is not in proposal to be drawn as a closed polyline on this layer.		NIP
_OtherDetail	Make one Boundary/Closed Poly Line around the Details which is to be taken in final Printout		OTRD
_OTS	Draw OTS area as a closed Polyline with Text inside FSIArea & inside Section Poly on _OTS Layer. All inner and outer OTSs should be drawn on this layer. OTS can be be present in the floor plan and its section in the Section poly but on the same "_OTS" layer.		CWK
_Otherplotboundary	This layer is use to draw FP boundary in draft and final TP scheme boundary.		

Layer name	Description	Naming Convention	Short Command
_Parking	Draw a closed Polyline for Parking's on "_Parking" Layer. U can also use Insert tool to insert desired Parking Poly in your drawing. And also use for mechanical two stack , three stack parking marking.		PK
_Passage	Draw a closed polyline on "_Passage" Layer to represent passage. (Note: If Premium for Passage is going to be Paid, Passage should be marked by using Tool "Mark>Passage>Free from FSI"		PAS
_Plot	Draw a closed poly which will represent the Plot layout		PLT
_PropWork	PWork is a building profile and shall be drawn inside plot. Draw a closed polyline for Proposed Work on "_PropWork" Layer. Direction Ref Circle: Insert Dimension Ref Circle inside PWork poly at the same point as in Floor polye. You can insert it on common areas of the bldg. such as lobby, staircase, lift etc.		PW
_RailLine	Railway line shall be drawn in the layout plan as a Open Poly (Ltype-CentreLine) & Text which insertion point lies on the Polyline.		L2
_Ramp	Draw a Ramp as a closed polyline with CentreLine (L-type-Centre Line) & Text inside it in Plan. Draw RampSection as a closed polyline with Text same as in Plan. And also to mark ramp platfoem.		SECR
_OrganizedOpenSpace	Draw a closed polyline on "_OrganizedOpenSpace" Layer to represent the area for recreational purpose.		OPS
_Recreational SpaceInBldg	Draw a closed polyline on "_RecreationalSpaceInBldg" Layer to represent the area in Building on any floor for recreational purpose.		RSIB
_ReservArea	If there in any Reservation Area in Plot, it should be drawn as a closed Polyline with Text inside same Layer.		RSA

Layer name	Description	Naming Convention	Short Command
_ResiFSI	A Closed poly with Text on this layer represents a Residential FSI or Floor FSI. It will cover whole area which is considered in FSI Area per Floor. Note: - It is same as previous "_ResiFSI" Layer.		MFS
_Roadwidening	Road Acquisition/Road Widening area shall be drawn as a closed Polyline with Text on same layer inside Plot Entity. Margin will be generated & checked from Roadwidening Poly by AutoDCR software.		R5
_Room	A closed polyline for each room with its text inside should be drawn on this layer.		RU
_Section	Section poly should be drawn as a closed Polyline with Text on same Layer. It is used to group all Sectional detail like Floor Sections, Plinth, Staircabin, Tank etc. (This is just a logical Group of Sectional Entity). (Note: Area or size of Floor does't have any meaning in AutoDCR)		SEC
_SectionalItem	Draw a SectionalItem as a closed polyline which is the height of the AC Duct/Beam/Slab/Sunk Slab of that floor. This poly only used for checking clear floor height by deducting this Sectional Item height		SECTITEM
_SitePlan	The encapsulating poly around the Site/Key Plan with the Text & Scale inside it. (Note: Scale should be written as described. Scale:1:500)		STP
_SpecialUseFSI	FSI ploy for all other building uses like educational, institutional etc. except resi.,comm. ind. use should be drawn on this layer.		SUF
_StairCase	Total Staircase area should be drawn as a closed polyline with text inside it. This Main Stair Poly should contain Intermediate Landing, Floor Landing & Each Tread as an open		STR

Layer name	Description	Naming Convention	Short Command
	polyline. Intermediate & Floor Landing Poly can be Marked by Drawing Formatting Tool "Mark>Staircase>Int. or Floor Landing" In staircase layer stair lobby also drawn on this layer and mark it on marking tool.		
_SubDivision	For Land Division Proposal, Draw each SubPlot (Subdivided Plot) as a Closed Polyline having Text/Mtext on _SubDivision layer		SBD
_Terrace	A closed polyline on _Terrace layer is a terrace. All kind of terraces like common top floor terrace as well as common terrace on any floor should be drawn on this layer.		TER
_Void	Draw a closed polyline on "_Void" Layer to represent void.		VD
_Wall	Draw Wall as a closed Polyline. No text is reqd in Wall layer		
_WaterBody	Draw Water Body as closed polyline.		R4
_Window	Draw a closed polyline on _Window" Layer to represent window. You can also use Insert tool to insert window poly for particular size.		WND

1.3 Drawing Formatting Tool

While running the Drawing Formatting Tool software, you will get option to select AutoCAD version. You can select any of AutoCAD version to run the Drawing Formatting Tool Application. You will get Drawing Formatting Tool bar and Drawing Formatting Tool Menu in that AutoCAD Application only. A detail for each tool is described below.

Figure 1: Drawing Formatting Tool Bar

Create New Project:

Create Layers in the drawing (PDCRCL):

Fix Poly (PDCRPE):

Mark Margin (PDCRMARGIN):

Verify close Poly (PDCRVD):

Verify the Current Drawing (PDCRVT):

Show Objection List (PDCROLST):

Show Drawing Formatting Tool Report:

1.3.1 Create New Project

This command will Create New project for current drawing. As soon as you active this tool the following dialog appears. In which you have to fill all the Proposal details. Also it is mandatory to select Type of Project as:

a. **Prop. Development:** Proposal having Development. It should not involve any LandDivision or Reconstitution

b. **Land Division/Amalgamation:** Proposal having Land Subdivision or Amalgamation

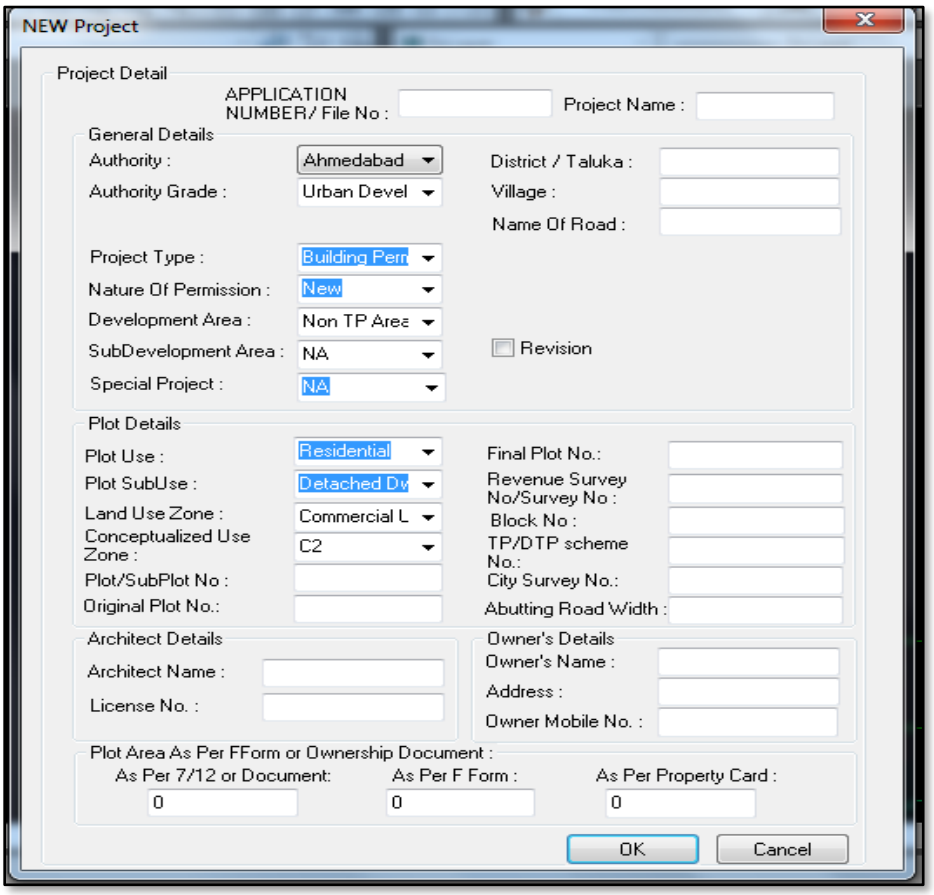


Figure 2: Create New Project

1.3.2 Create Layers in the Drawing (PDCRCL)

This command will create layers required for AutoDCR and as per the Project Type you have selected. i.e. For Proposed Development type Proposal listed layers will be generated in drawing file.

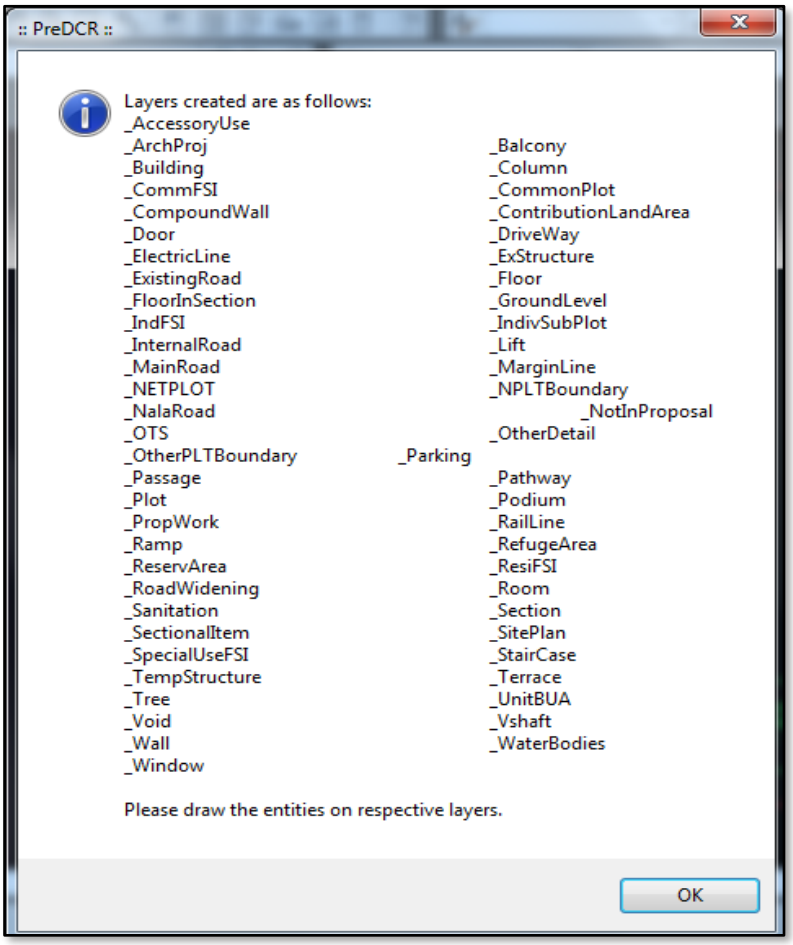


Figure 3: Create Layers

1.3.3 Fix Poly (PDCRPE)

Use this command once on the final drawing which will process all the polylines on the Drawing Formatting Tool layer and remove extra vertices found on polyline or duplicate entity. This command should be used (before verifying the drawing) every time you add any new entity in the drawing.

1.3.4 Mark Margin (PDCRMARGIN)

Use this command to mark side of the plot as Front, Rear or Side. Also you have to assign Plot width and Plot depth in drawing using same tool.

Figure 4: Mark Margin

Mark the Plot side which is overlapped with MainRoad as Front , opposite side as Rear & other sides as Side Margin. Assign Plot width & Depth in Drawing.

Mark the Plot side and PWork when No Door/Window or Ventilation is taken from any side of the Plot or Neighbour Consent is taken on any side.

1.3.5 Verify close Poly (PDCRVD)

This command will verify the current drawing as required by AutoDCR. It will verify that LWPOLYLINE entities on the selected layers are closed and contain one text.

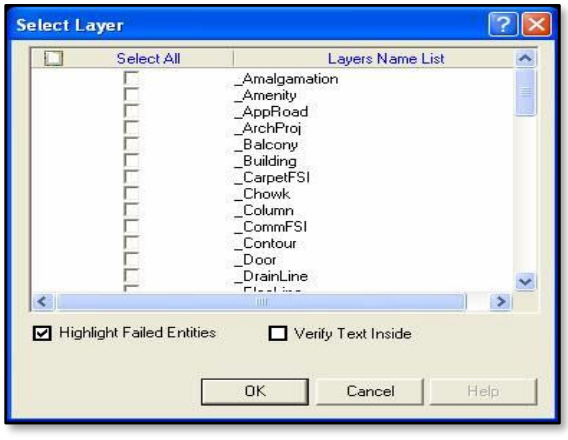


Figure 5: Verify the Current Drawing

1.3.6 Verify the Current Drawing (PDCRVT)

Use this command to verify the layout and building level objects in the current drawing plan. Major checks are as follows:

- Check if these entities are drawn as closed LWPOLYLINE.
- Name text is given to all objects.
- Entities are placed exactly inside their parent objects (container).
- Naming conventions are followed properly.

In the "Verify All Drawing Dialog" you can select the layout or building objects to be checked. To view the result, press OK button. Drawing Formatting Tool will start checking all corresponding objects in the currently open drawing and then display the status as OK or list of failed objects with the reason of failing in the dialog as shown in Figure.

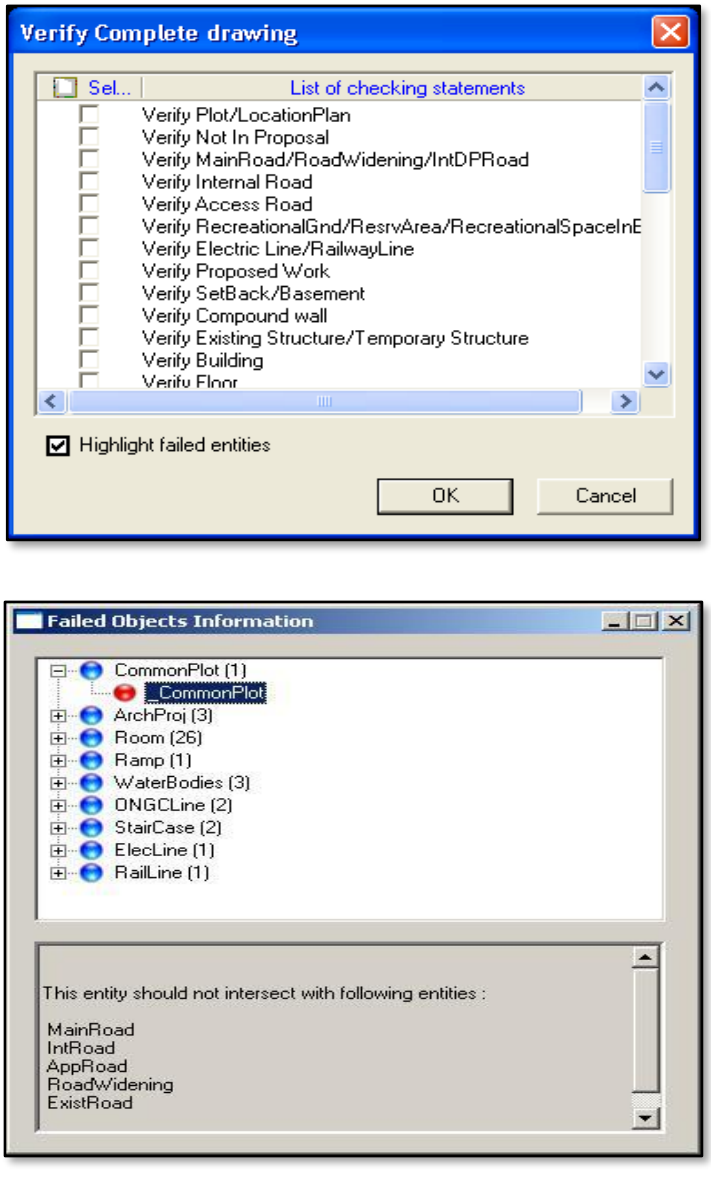


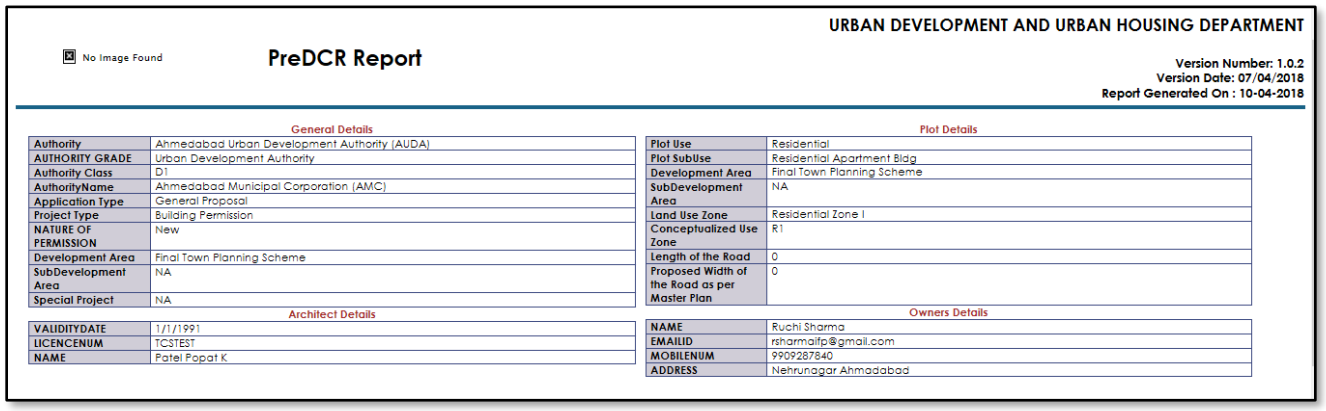
Figure 6: Failed Entity Information

1.3.7 Show Objection List (PDCROLST)

This command gives the list of all minimum required entities which are not there in your drawing. If all required entities found then it gives a message that minimum required entities are present in drawing.

1.3.8 Show Drawing Formatting Tool Report (PDCRRPT)

This command will generate the Drawing Formatting Tool Report having all the Project details. All the verified and Failing entities having Information will be shown in this Report.



URBAN DEVELOPMENT AND URBAN HOUSING DEPARTMENT

No Image Found

PreDCR Report

Version Number: 1.0.2
Version Date: 07/04/2018
Report Generated On : 10-04-2018

General Details

Authority	Ahmedabad Urban Development Authority (AUDA)
AUTHORITY GRADE	Urban Development Authority
Authority Class	D1
AuthorityName	Ahmedabad Municipal Corporation (AMC)
Application Type	General Proposal
Project Type	Building Permission
NATURE OF PERMISSION	New
Development Area	Final Town Planning Scheme
SubDevelopment Area	NA
Special Project	NA

Plot Details

Plot Use	Residential
Plot SubUse	Residential Apartment Bldg
Development Area	Final Town Planning Scheme
SubDevelopment Area	NA
Land Use Zone	Residential Zone I
Conceptualized Use Zone	R1
Length of the Road	0
Proposed Width of the Road as per Master Plan	0

Architect Details

VALIDITYDATE	1/1/1991
LICENCENUM	TCSTEST
NAME	Patel Popat K

Owners Details

NAME	Ruchi Sharma
EMAILID	rsharmaifp@gmail.com
MOBILENUM	9909287840
ADDRESS	Nehrunagar Ahmadabad

Figure 7: Drawing Formatting Tool Report

1.4 Special Tools

1.4.1 Use Special tools using Drawing Formatting Tool Menu

Mark:

Insert:

Assign Name:

Tool:

1.4.2 Use Mark tool using Drawing Formatting Tool Menu

Marking adds some extra meaning in entity. Following commands are provided to mark different entities as per requirement.

Amenity:

PWork:

Room:

Void:

Floor in Section:

Staircase:

Lift:

FSI:

UnitBUA:

Balcony:

Projection:

Main Road:

Road Widenings:

Existing Work:

Existing Structure:

AccessoryUse:

OtherDetail:

Margin:

- **Amenity:**
- **Common Plot:**

  Thick Plantation

  Common Plot (Default)

- **PWork:**

  Centrally AC Building: Mark PWork for Centrally AC Bldg

  Pwork(Default) : Mark Normal PWork

- **Room:**

  AC Room: Mark Room Poly for AC Room

  Room (Default) : Mark Normal Room Poly

- **Void:**

  CutOut (Free from FSI/BUA): Mark Void poly for Central Open Space/Atrium which area is taken free from FSI and Built up area as **CutOut**

  Void (Default) : Mark Normal Void Poly for Double Height portion or the area which is taken free from FSI

- **Floor Section:**

  Floor to be demolished: Mark Section floor as Floor to be Demolished when required.

  Floor In Section (Default): Mark Section floor as Default to remove any other Marking.

- **SectionalItem**

  AC Duct
  Beam
  Slab
  Sunk Slab

- **Staircase:**

  Internal Staircase
  Escalator
  Open StairCase
  Fire Escape Staircase
  Spiral Staircase
  Three Flight Staircase
  Four Flight Staircase
  Normal(Default)

  Intermediate Landing
  Flight Width
  Floor Landing

Marking to be provided in each Staircase

- **Intermediate Landing** (PDCRMIL): Mark Intermediate Floor Landing Width (Open Poly) inside staircase as Intermediate Landing.
- **Flight Width** (PDCRMFW): Mark Flight width (Open Poly) inside staircase as Flight Width.
- **Floor Landing** (PDCRMFL): Mark Floor Landing width (Open Poly) inside staircase as Floor Landing.

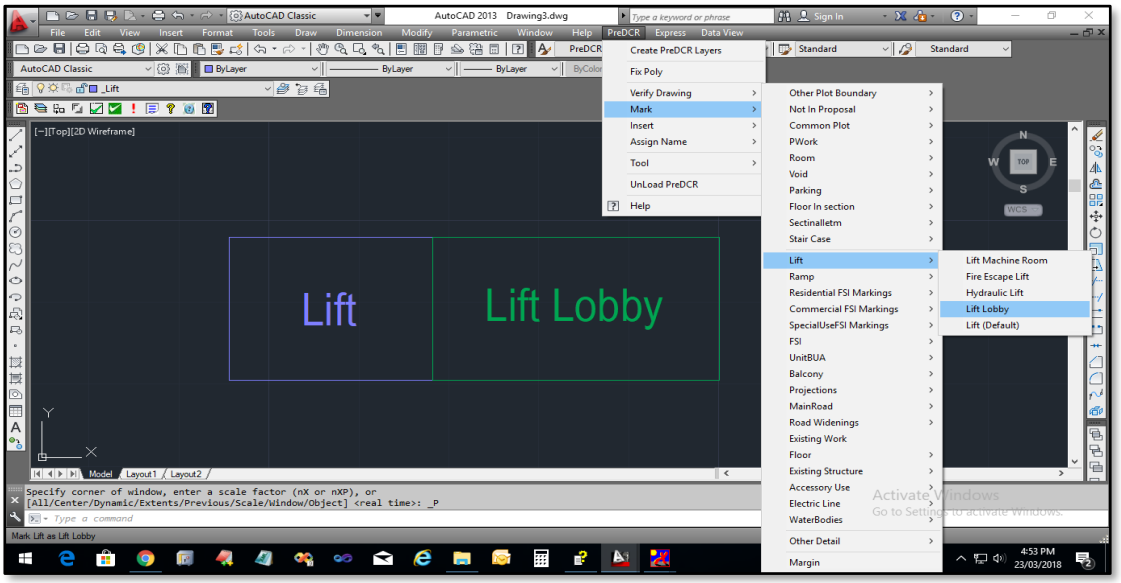


Figure 8: Staircase & Lift markings

- **Lift:**

  Lift Machine Room: Mark Lift as Lift Machine Room

  Fire Escape Lift: Mark Lift as Fire Escape Lift

  Hydraulic Lift: Mark Lift as Hydraulic Lift

  Lift (Default): : Mark Normal Lift as Lift

- **SpecialUseFSI markings:**

  FSI Area used for other than Residential, Commercial and Industrial purpose shall be drawn on _SpecialUseFSI Layer and shall be marked as per its Use

  Educational: Mark SpecialUseFSI poly as "Educational" for area used as Educational Purpose

  Medical/Hospital: Mark SpecialUseFSI poly as "Medical" for area used as Medial Purpose

  Assembly: Mark SpecialUseFSI poly as "Assembly" for area used as Assembly

  Office/Business : Mark SpecialUseFSI poly as "Office" for area used as Office Purpose

  Storage: Mark SpecialUseFSI poly as "Storage" for area used as Storage Purpose

  Hazardous: Mark SpecialUseFSI poly as "Hazardous" for area used as Hazardous Purpose

- **FSI:**

  Road Widening
  TDR FAR
  Free FAR@ Basement Area
  Existing FAR
  Sanctioned as per BPS or Special Permission
  FAR to be Demolished
  Open FAR Area
  Normal(Default)

- **UnitBUA:**

  Spited Tenement: Mark more than one Ind.Unit for Splitted Tenement. i.e. When Tenement is having more than one Ind.Unit Poly e.g. Bungalow, Double Floor Flat.

  Normal (PDCRMNT): Mark Ind.Unit as individual tenement (Default)

  UnitBUA other than Tenement: Mark Carpet Poly drawn for Common passage area or other than Tenement area as UnitBUA other than Tenement

- **Balcony:**

  Service Verandah: Mark Balcony as Service Verandah

  Normal (Default) : Use this marking to unmark above marking

- **Projection:**

  F.Bed : Mark Architectural Projection as Flower Bed

  Weather Shed: Mark Architectural Projection as Weather Shed

  Loft: Mark Architectural Projection as Loft

  Cantilever Portico: Mark Architectural Projection as Cantilever Portico

  Otta: Mark Architectural Projection as Otta

  Arch. Projection: Mark Architectural Projection as Arch. Projection

  (Note: Even though any Projection is considered in FSI Area, Each Projection (except Loft) must be drawn outside & overlapped with the FSI Poly at Floor Lvl or with PWork at Layout Lvl and each Arch. Projection must be marked through Drawing Formatting Tool Mark>Projection Option)

- **MainRoad:**

  Access road: Mark Main road as Access road

  Main Road (Default) :

- **Road Widening:**

  Surrendered Free of Cost: Mark RoadWidening poly as Surrendered Free of Cost when RoadWidening area is considered for calculating the Permissible FSI Area/Coverage area

- **Existing Work:**

  This command is used to mark the part of Building as an Existing work.

  When Any Existing Bldg detail is provided, draw each entity on Drawing Formatting Tool Layer and mark each of them as "Existing Work"

- **Existing Structure:**

  To be demolished (PDCRMREXWD): Mark an Existing work which is to be demolished as "To be demolished".

  To be retained (PDCRMREXWR): Mark an Existing work as to be Considered for calculation without any corresponding Bldg Detail as "To be retained"

  Sanctioned as per BPS or Special permission: Mark as Existing work which is already constructed and approved as per Old DCRule or special permission

- **Accessory Use:**

  Electric Room: Mark Accessory Use Poly as Electric Room

  Transformer: Mark Accessory Use Poly as Transformer

  WatchMan Cabin/Security Room: Mark Accessory Use Poly as Watchman cabin or Security Room

  Servant Quarter : Mark Accessory Use Poly as Servant Quarter

  Garage: Mark Accessory Use Poly as Garage

  Rain Water Harvesting: Mark Accessory Use Poly as Rain Water Harvesting

  Motor Room: Mark Accessory Use Poly as Motor Room

  A C Plant Room: Mark Accessory Use Poly as AC Plant Room

  Lumber Room: Mark Accessory Use Poly as Lumber Room

  Lavatory: Mark Accessory Use Poly as Lavatory

  Generator Room: Mark Accessory Use Poly as Generator Room

  Garbage: Mark Accessory Use Poly as Garbage

  Sheds: Mark Accessory Use Poly as Sheds

  StoreHouse: Mark Accessory Use Poly as Store House

  Toilet: Mark Accessory Use Poly as Toilet

  BathRoom: Mark Accessory Use Poly as Bath Room

Accessory Bldg/Accessory Shed: Mark Accessory Use Poly as Accessory Bldg/Shed

- **Other Details:**

  Elevation: Mark closed Polyline around Elevation Detail

  Site Plan: Mark closed Polyline around Site Plan

  Location Plan: Mark closed Polyline around Location Plan

  Septic Tank Detail: Mark closed Polyline around Septic Tank Detail

  Rain Water Tank Storage Detail: Mark closed Polyline around Rain Water Tank Storage Detail

  Certificate: Mark closed Polyline around Certificate

  Note: User has to make one Boundary around the details as above and any other which details are need to be taken in final Printing and which are not used while Drawing Formatting Tool Conversion.

- **Margin:**

  Refer Mark Margin Tool

1.4.3 Use Insert tool using Drawing Formatting Tool Menu

Following commands are provided to insert various blocks/Text in your drawing.

Parking:

Door:

Window:

Sanitation Text:

Direction Reference Circle:

North Direction:

- **Parking:**
  - **Car:** Insert Car Parking Unit
  - **Two Wheeler:** Insert Two Wheeler Parking Unit
  - **Cycle:** Insert Cycle Parking Unit
  - **Transport Vehicle :** Insert Transport Vehicle Parking Unit
  - **Loading/UnLoading:** Insert Loading/UnLoading Vehicle Parking Unit

FOR MECHANICAL PARKING USE MECHANICAL PRARKING MARKING TOOL

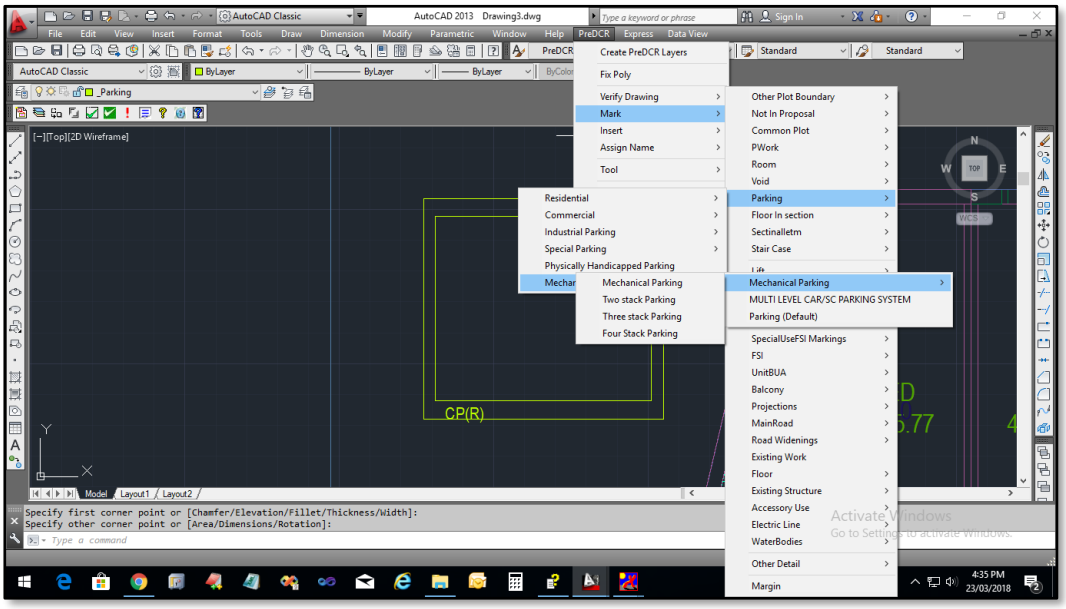


Figure 9: MECHANICAL PARKING

- **Door:**
  - **Door** (PDCRIDRNAM): Use this command to insert Door Poly at specific point**.** Door must be overlapped with Room at one side

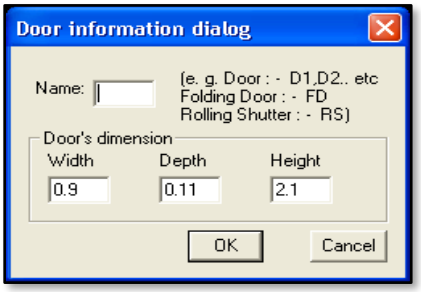


Figure 10: Insert Door

Give Door Name and Dimension as per drawing. Door Poly with Text will be inserted in drawing.

- **Window:**
  - **Window** (PDCRIWNDNAM): Use this command to insert Window Poly at specific. Window must be overlapped with Room at one side & at other side with the Entity from which Room is getting ventilation

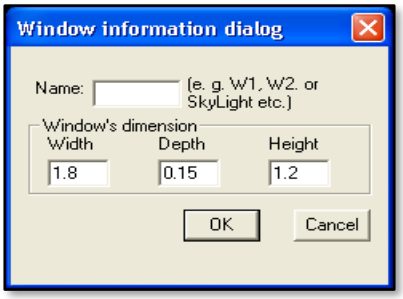


Figure 11: Insert Window

Give Window Name and Dimension as per drawing. Window Poly with Text will be inserted in drawing. Ventilation taken from Slab/Top must be named as SkyLight

- **Sanitation Text:**
    - **Urinals:** Use this command to insert Text for Ur inals for Sanitation for any Use except Residential Use.
    - **Water Closet:** Use this command to insert Text for WC used for Sanitation for any Use except Residential Use.
    - **Wash Basin:** Use this command to insert Text for WB used for Sanitation for any Use except Residential Use.
    - **Bath:** Use this command to insert Text for Bath for any Use except Residential Use.

- **Direction Reference Circle:**
    - **Direction Ref Point** : Use this command to insert Direction Ref Point (Orientation) inside Floor and PropWork.
- **North Direction:**
    - **North Direction:** Insert North Direction in Drawing

1.4.4 Use Assign Name tool using Drawing Formatting Tool Menu

Building and Prop.Work:

Room:

Floor Name:

Ramp Name:

- **Building and Prop.Work:**
    - **Building and PropWork** (PDCRBLDPWNL): Use this command to assign the names to Building and its corresponding PropWork at Layout.

Figure 12: Assign Building & Pwork Name

Note: Each Bldg & **PWork(**BUA in Layout) entity name must be assigned through **Drawing Formatting Tool**.

- **Room:**
  - Use this command to assign names to Different Room

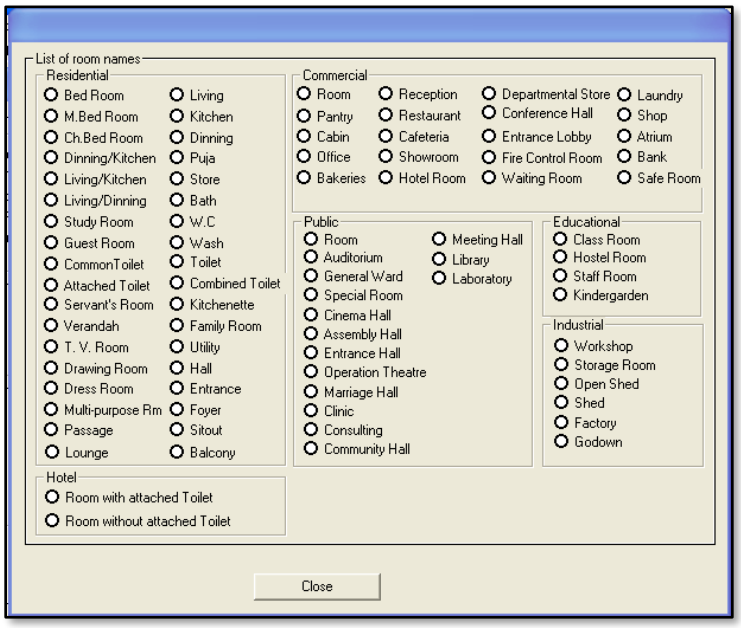
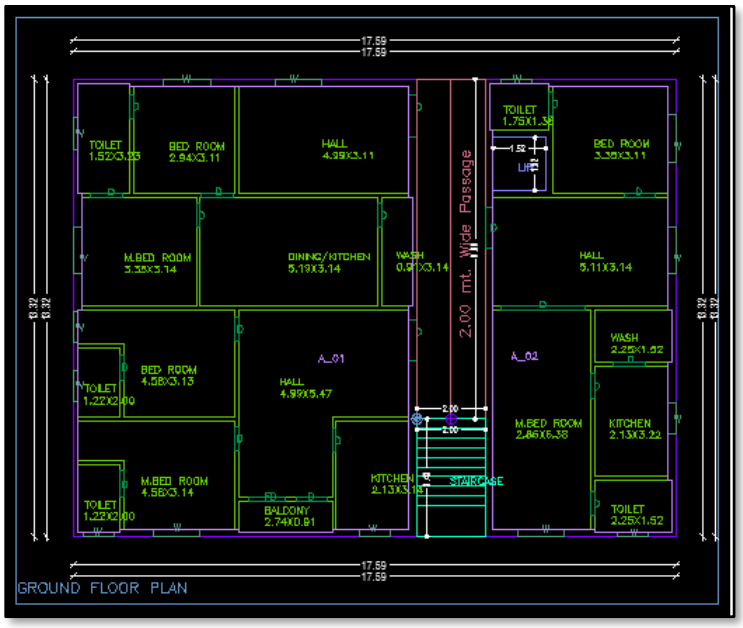


Figure 13: Assign Room Name

While Assigning Room name, Drawing Formatting Tool will insert the name of Room and size of Room.



- **Floor Name:**
  - Use this command to assign names to Floor and it's corresponding SectionFloors.
    As soon as you use this command the following Dialog Box appears. Now select particular floor name which you want to assign.

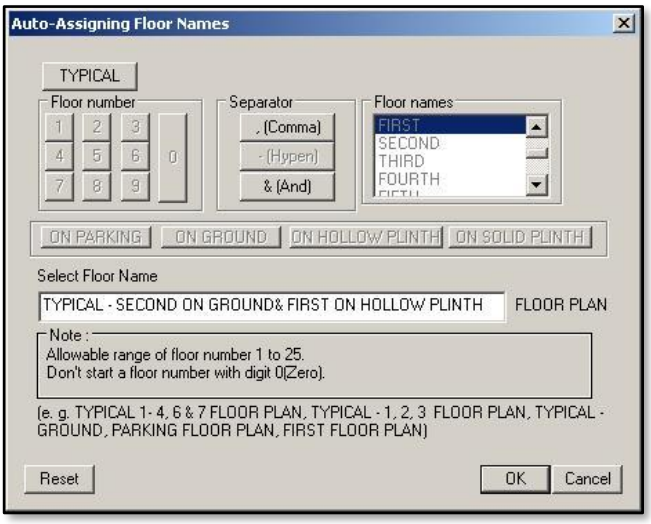
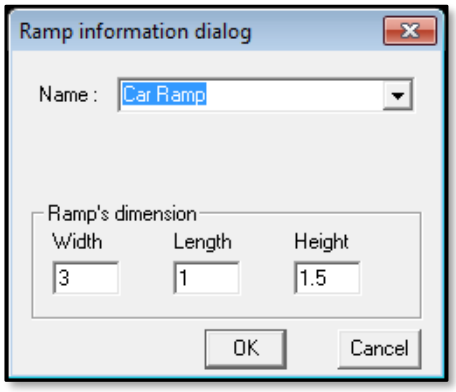


Figure 14: Assign Floor Name

  - Each Floor-SectionFloor name must be assigned through Assign Name>Floor Tool.
  - Each Floor & SectionFloor must be having same Floor name without any Spelling Mistake
  - Typical Floor Name must be assign by using Comma, Hyphen and & through Assign Name>Floor

- **Ramp Name:**

  Use this command to assign name to Ramp



1.4.5 Use other tool using Drawing Formatting Tool Menu

- **Give Unique no. to Parking (PDCRPKN):** This command is used to give unique numbers to different Parking Poly
- **Shortest distance (PDCRFSD):**
  This command will find the shortest distance between two entities.
- **Show Only Drawing Formatting Tool Layers:**
  - **All Drawing Formatting Tool layers (PDCRSPL):**
    This command will turn off all the layers in the drawing except Drawing Formatting Tool layers
  - **Building level layer (PDCRSBL):**
    This command will turn on all the building plan level Drawing Formatting Tool layers in the drawing.
  - **Layout level layer (PDCRSLL):**This command will turn on all the Layout plan level Drawing Formatting Tool layers in the drawing.
- **Show Only DCR Layers (PDCRSDL):**
  This command will turn off all the layers in the drawing except DCR layers.
- **Show Only Other Layers (PDCRSOL):**
  This command will turn off all the DCR and Drawing Formatting Tool layers in the drawing.
- **Show All layers (PDCRSAL);**
  This command will turn on all layers in the drawing.
- **Show Objection List:**
- This command will show you Objection List. Refer Show Objection List
- **Calculate Total Area (PDCRCTA):**
  This command will compute the total area of all selected closed polygons.
- **Calculate Deducted Area (PDCRCDA):**
  This command will compute the area of closed polygon after deducting closed polygons found inside.
- **Get All Inside Poly (PDCRFIP):**
  This command will highlight all polygons, which found exactly inside selected polygon under test.
- **Get All Overlapping Poly (PDCRGOP):**
  This command will highlight all polygons, which are overlapping with selected polygon under test.
- **Get All Intersecting Poly (PDCRGIP):**
  This command will highlight all polygons, which are intersecting with selected polygon under test.
- **Find Open Entities (PDCRFNDO):** Highlight open entities on Drawing Formatting Tool layers
- **Find Closed Entities (PDCRFNDC):** Highlight closed entities on Drawing Formatting Tool layer.
- **Shortest distance (PDCRFSD):**
  This command will find the shortest distance between two entities.
- **Spelling check (_spell):** This tool is used for spelling checking.
- **Find Object (PDCRFOBJ):** This command zoom & highlight object of a given handle.

1.5 Do's and Don'ts

Follow the basic Instructions while making the drawing in Drawing Formatting Tool format.

What you must do:

- FSI Area used for Residential and Special Residential purpose only should be drawn on **_ResiFSI layer**
- FSI Area used for Commercial purpose only should be drawn on **_CommFSI layer**
- FSI Area used for Industrial purpose only should be drawn on **_IndFSI layer**
- FSI Area used for any other purpose should be drawn on **_SpecUseFSI layer**
- Parking Stall must be inserted using Drawing Formatting Tool > Insert > Parking tool.
- Direction Reference Circle must be inserted on Each Floor Plan of the Building and its corresponding PropWork on the same Place by using Drawing Formatting Tool > Insert > Direction Ref Circle.
- Plot layout Plan, Detailed floor plan and building section for all Buildings should be in Metric scale and in Single drawing file & must be in 1:1 Scale
- If in Layout plan two Mirror Proposed work are provided, user has to provide two separate building details for both Mirror-Proposed work.
- Each side of the Plot must be marked by Mark > Margin tool.
- **If proposal is for Addition/Alteration or Extension in One Building** then
    - Proposed and Existing Floor area must be drawn on Drawing Formatting Tool Layer. E.g. For Addition/Alteration in Residential case, Proposed area on each floor shall be drawn on _ResiFSI Layer where Existing Floor area shall be also drawn on _ResiFSI Layer as a different Polyline and it must be marked as Existing FSI using Drawing Formatting Tool > Mark > FSI >Existing Option.
    - Also user has to draw _FloorInSection for Existing floor too. He has to draw all the internal Detail such as UnitBUA, Room, Door, Window inside FSI poly marked as Existing. All those internal Polylines drawn for Existing area shall be marked as Existing using Drawing Formatting Tool > Mark > Existing Work option.
    - In a same case, the Coverage area of that Building considering Proposed + Existing area must be drawn on _PropWork layer only. No _ExistingStructure Poly is needed.
- **_ExistingStructure layer shall be used only for the Existing Building in Layout which is not having any Building Detail in Drawing.**
- Parking below Building must be drawn inside Building & Parking provided at any Open space in Layout Plan must be drawn at Plot.
- Each Floor-FloorInSection Floor & Bldg-PropWork Name must be assigned by Drawing Formatting Tool > Assign Name tool only.
- Each Internal Road must be drawn as an Individual IntRoad Poly having Centre Line inside.
- For Land Division (SubDivision) type of Proposal, _Plot Poly shall be drawn as a container of each SubPlot & _SubDivision poly shall be drawn for each SubPlot .

- For Amalgamation type of Proposal, _Amalgamation Poly shall be drawn as a container of each Plot to be amalgamated & _Plot poly shall be drawn for each Plot .
- Stair cabin detail must be drawn at Terrace Floor Plan only.
- No FSI should be drawn at Basement/Cellar Floor, if Such Basement/Cellar Floor is to be used for parking purpose only.
- No FSI or Hollow Plinth should be drawn at Ground floor, if Such Floor is to be used for parking purpose only.
- Drawing for Development, Land Division, Amalgamation Proposals for same Project must be provided in Separate drawing file.
- Balcony shall be drawn outside the FSI Poly.
- Arch.projection must be drawn on _ArchProjection Layer and Marked as required using Drawing Formatting Tool > Mark > Projection tool.
- SubStructure or Accessory Use must be drawn on _SubStructure Layer and Marked as required using Drawing Formatting Tool > Mark > SubStructure tool.
- Always use TEXT command to name any Entity. If user wants to use MTEXT then make sure that MTEXT box must be fully inside such entity.
- Do provide the detail in Metric scale only. E.g. Text in _MainRoad shall be like "3.0 mt. wide road"
- _UnitBUA or _IndUnit area must be drawn individually for each Tenement not for Each Room. And it should be named as per Tenement No.

What you must not do:

- Do not provide any detail in other than Metric Scale. e.g. Text in _MainRoad shall not be like "3.0 mt. or 10’0" wide road"
- Do not write/show any Dimension on Drawing Formatting Tool Layer.
- Do not show any _OtherDetail inside Plot Poly.
- Do not draw Parking inside FSI Poly.
- Do not give different name to _UnitBUA or _IndUnit Poly if it is for single Tenement.
- Do not draw _Plot Poly inside _Building Poly.
- Do not draw _FloorInSection poly for Terrace floor for a Staircabin Ht. It should be drawn for Parapet Ht. only.
- Project must be provided in Separate drawing file.

1.6 Drawing Formatting Tool OutPut in Drawing

As the Drawing Formatting Tool report is generated, User will get auto generated Tables in Drawing file as distinguished below.

- **Area Statement:**
  - **Project Data:** Drawing Formatting Tool will show all project data given at New project Dialog in Drawing under Area Statement.

AREA STATEMENT: SUDA	VERSION NO.: 1.00 VERSION DATE: 07/08/2014
PROJECT DETAIL :	
Application No. :0001	Plot Use :Residential
Nature of Development :New	Plot SubUse :Residential Bldg
Category : -	Land Use Zone :Residential
Project Type :Proposed Development	Revenue No./CTS No. : -
Location :Detailed Town Planning Scheme	Plot No. :12
Village :Althan	ROW Of Abutting Road :15.0
Name Of Road : -	Zone :A

  - **Area Details:** Drawing Formatting Tool will calculate all the proposed area and show in Drawing under Area Statement.

AREA DETAILS :		SQ.MT.
AREA OF PLOT (Minimum)	(A)	419.82
NET AREA OF PLOT	(A-Deductions)	419.82
BALANCE AREA OF PLOT	(A-Deductions)	419.82
PLOT AREA FOR COVERAGE	(A-Deductions)	419.82
Plot Area for FSI	(A-Deductions)	419.82
COVERAGE CHECK		
Proposed Coverage Area (54.62 %)		229.29
Total Prop. Coverage Area (54.62 %)		229.29
Existing Structure To Be Demolish		141.58
FSI CHECK		
Residential FSI		208.09
Commercial FSI		383.53
Proposed FSI Area		591.62
Total Proposed FSI Area		591.62
BUILT UP AREA CHECK		
Proposed BuiltUp Area		676.36

ARCH / ENGG / SUPERVISOR (Regd.)	OWNER
DEVELOPMENT AUTHORITY	LOCAL BODY

- **FSI and BuiltUp Area statements:**
  - **Floor wise FSI statement:** Drawing Formatting Tool will show each floor area calculation with deductions (if any). Sameway Tenement Nos. per floor and Other than Tenement Area will be shown in this Table.
  - **Total FSI statement:** Drawing Formatting Tool will show Building/Block wise FSI and BuiltUp area calculation.

Building Details:

Building	No. of Same Bldg	Gross Built Up Area (Sq.mt.)	Total Built Up Area (Sq.mt.)	Deductions (Area in Sq.mt.)			Proposed FSI Area (Sq.mt.)		Total FSI Area (Sq.mt.)	Tnmt (No.)
				StairCase	Lift	Lift Machine	Resi.	Commercial		
A (BUILDING)	1	676.35	676.35	68.73	12.00	4.00	208.09	383.53	591.62	01
Grand Total :	1	676.35	676.35	68.73	12.00	4.00	208.09	383.53	591.62	01

FLOORWISE FAR STATEMENT: A (BUILDING)

Floor Name	Gross Builtup Area	Total Built Up Area (Sq.mt.)	Deductions (Area in Sq.mt.)			Proposed FSI Area (Sq.mt.)		Total FSI Area (Sq.mt.)	Tnmt (No.)
			StairCase	Lift	Lift Machine	Resi.	Commercial		
Ground Floor...	196.64	196.64	17.18	4.00	0.00	0.00	175.46	175.46	00
First Floor...	229.25	229.25	17.18	4.00	0.00	0.00	208.07	208.07	00
Second Floor...	229.27	229.27	17.18	4.00	0.00	208.09	0.00	208.09	01
Terrace Floor...	21.18	21.18	17.18	0.00	4.00	0.00	0.00	0.00	00
Total :	676.35	676.35	68.73	12.00	4.00	208.09	383.53	591.62	01
Total Number of Same Buildings :	1								
Total :	676.35	676.35	68.73	12.00	4.00	208.09	383.53	591.62	01

- **Set Back Details:**
  - Drawing Formatting Tool will show the actual proposed Setbacks from Building to each Plot sides

COLOR INDEX

PLOT BOUNDARY
ABUTTING ROAD
PROPOSED WORK (COVERAGE AREA)
EXISTING (To be retained)
EXISTING (To be demolished)

PARKING CALCULATION:

Parking Type	Prop No.	Prop Area
Other Parking	4	96.86
Total Area	4	96.86

MARGIN DETAIL:

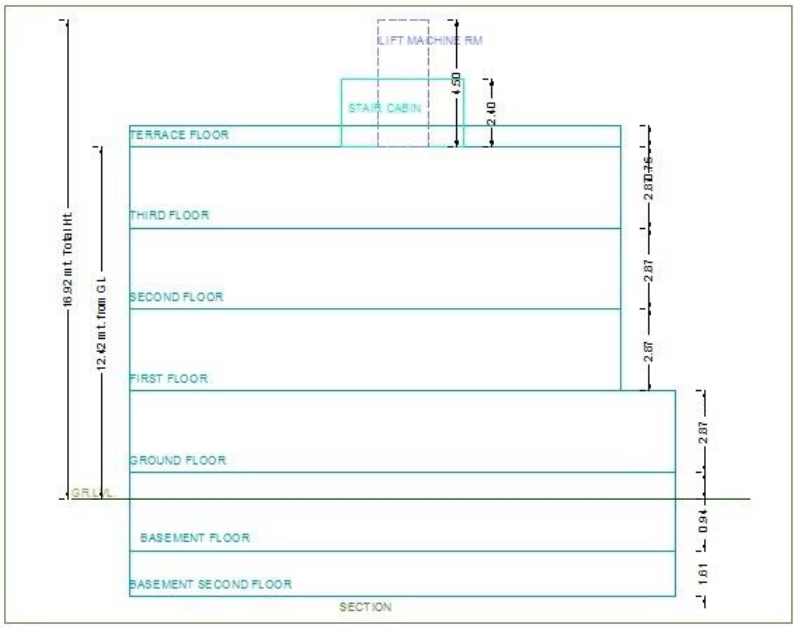
Building / Wing Name	Road Name	Front Margin	Rear Margin	Side1 Margin	Side2 Margin
A-1 (BUILDING)	12.50 M WIDE ROAD	3.31	1.50	1.01	3.20

- **Parking Calculation:**
  - Drawing Formatting Tool will show proposed Parking calculation as provided in drawing.
- **Balcony Calculation:**
  - Drawing Formatting Tool will show proposed Balcony calculation as provided in drawing.

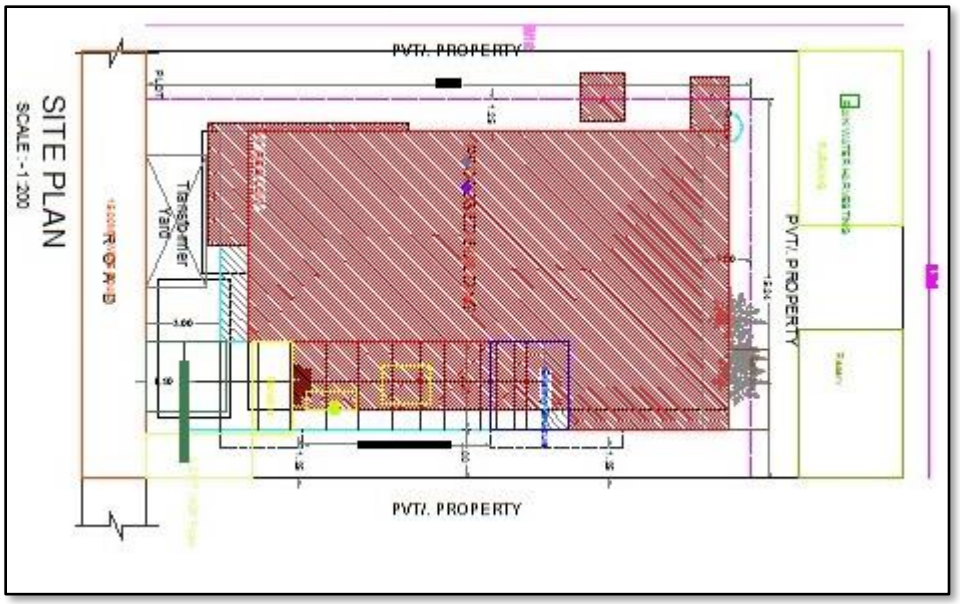
BALCONY CALCULATION

FLOOR	SIZE	AREA	TOTAL AREA
FIRST FLOOR	1.12 X 7.59 X 1	8.50	8.50
GROUND FLOOR	1.56 X 3.17 X 1	4.95	4.95
SECOND FLOOR	1.12 X 7.59 X 1	8.50	8.50
Total	-	-	21.95

- **Building Height generation:**
  - Drawing Formatting Tool will auto generate the Total Building Height and Individual Floor Height in Sectional Details of Building in Drawing.

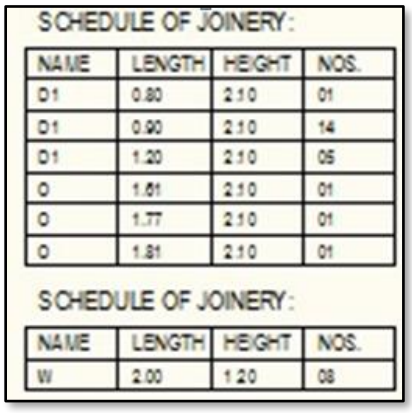


- **Ground Coverage Area:**
  - Drawing Formatting Tool will auto generate the Prop. Ground Coverage area and fill Hatch inside in Proposal Drawing.



- **Schedule of Opening:**

Drawing Formatting Tool will auto generate the Schedule of Openings (Doors and Windows) for each Building.



SCHEDULE OF JOINERY :

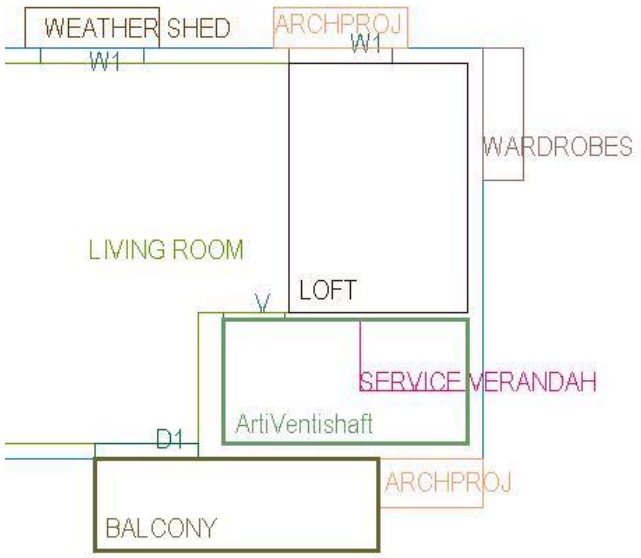
NAME	LENGTH	HEIGHT	NOS.
D1	0.80	2.10	01
D1	0.90	2.10	14
D1	1.20	2.10	05
D	1.61	2.10	01
D	1.77	2.10	01
D	1.81	2.10	01

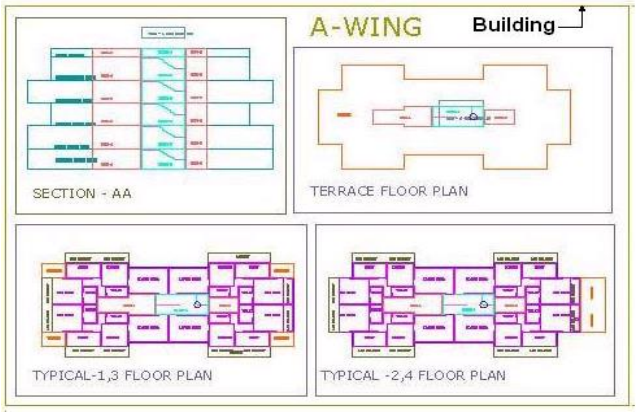
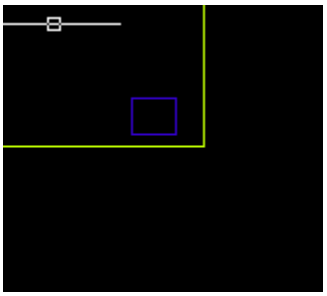
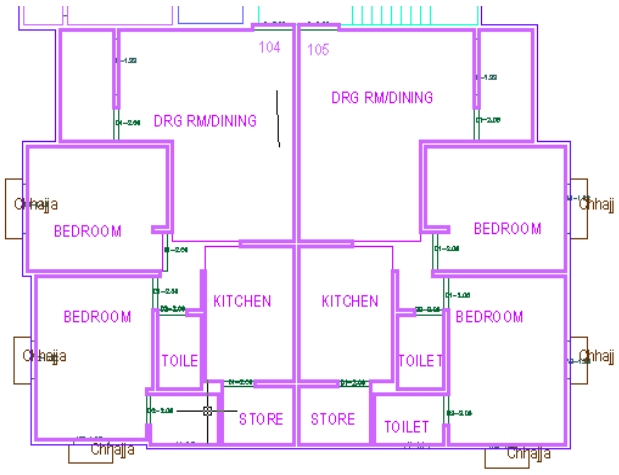
SCHEDULE OF JOINERY :

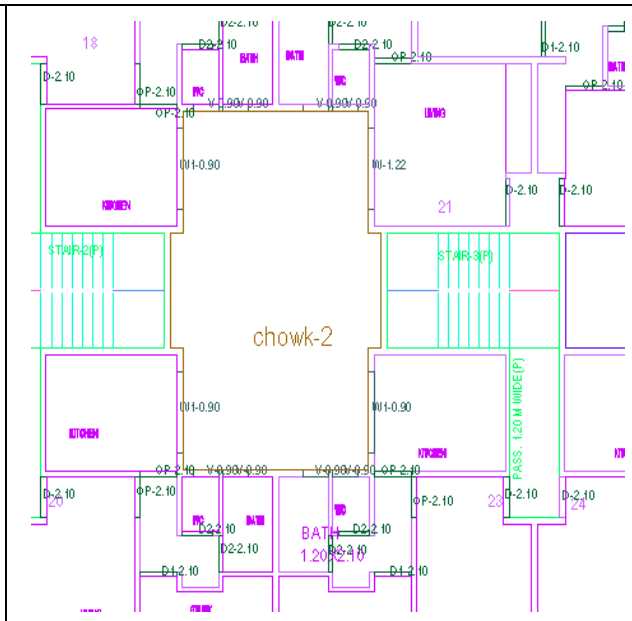
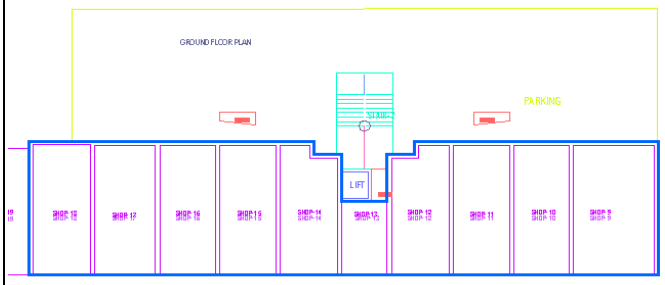
NAME	LENGTH	HEIGHT	NOS.
W	2.00	1.20	08

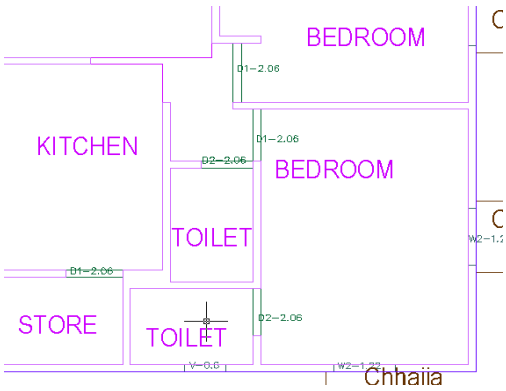
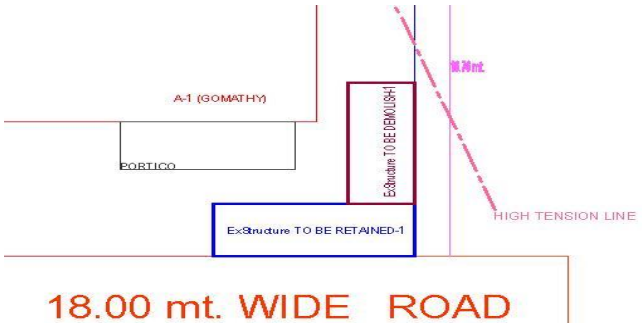
(Note : Main Entity Color must be ByLayer color , Where SubEntity on the same Layer would be having a different color)

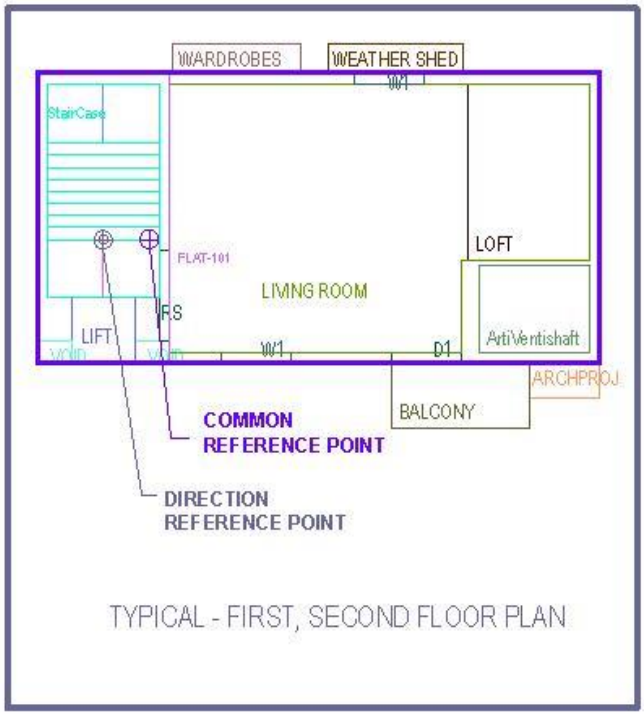
For Proposed Development Proposal:

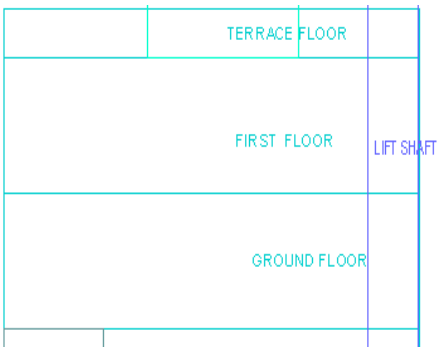
Layer name	Description	Naming Convention	
_Amenity	Draw amenity Space as closed polyline with Single Text/Mtext inside it on same layer.		
_ArchProj :	Draw Architectural Projections such as Weather shed		
_AirShaft	Draw a closed poly with Text for Artificial Ventilation Shaft or Duct.		
_Balcony • Service Verandah	Draw Each individual Balcony as closed Polyline with Text on same layer. • Service Verandah can be Marked by using Tool "Mark > Balcony> Service Verandah "		

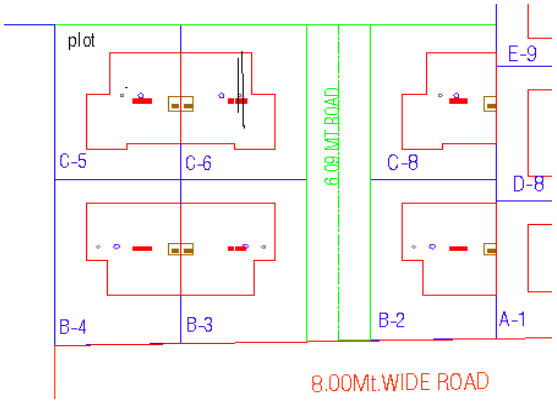
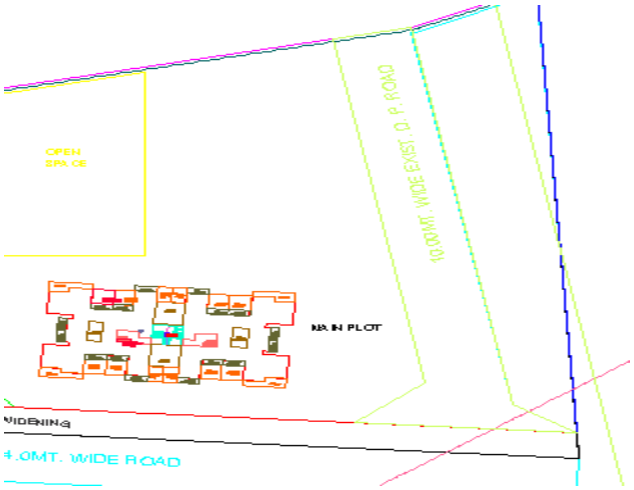
_Building	Building poly is used to group all floor plans and sections of the same Building.(*This is just a logical Group of Building*). (*Area or size of Building Poly does't have any meaning in AutoDCR*)	Naming Convention Should be Provided **A (Bldg.Name)** inside Bldg. Poly	
_COLUMN	A closed poly drawn in _column layer with no need to put text inside it.		
_UnitBUA	A Closed poly with Text on this layer represents a Builtup Area or Tenement Area. *(It should cover total area of one Tenement)* In case of Bunglow(Splited Tenement) give same text to all carpet poly inside one Bldg.		

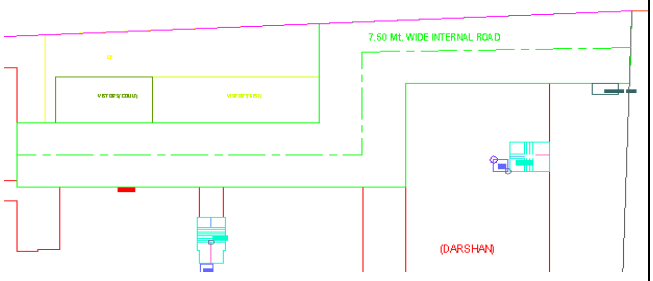
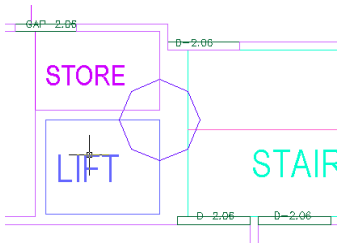
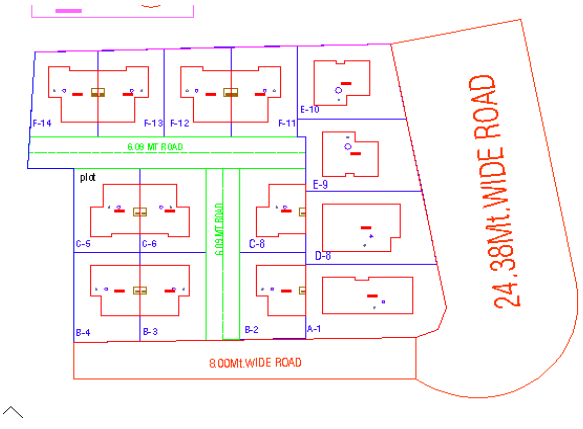
_OTS	Draw OTS area as a closed Polyline with Text on _OTS Layer.		
_CommFSI • Free FSI @Basement • Existing FSI	Draw a closed FSI PolyLine, which is used as a Commercial Purpose. *(Line type of Existing FSI poly should be* ACAD_ISI02W100)		
_CompoundWall	Closed polyline of compound wall to be drawn on this layer overlapping plot.	**0.0**m. high compound wall.	

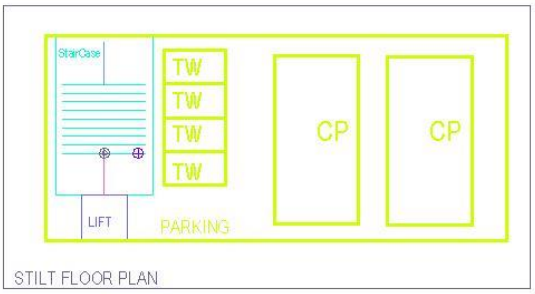
_Door	Door shall be drawn as a closed polyline with Text. Door Height should be given in Text as described here. *(Text's Insertion Point must be Inside Poly)*	D-2.10 D1-2.10 FD-2.40 RS-2.50	
_Electricline	Electric line shall be drawn as open Polyline with Text whose insertion Point lies on the Polyline. (**Note** : High or Low Voltage capacity must be written at a starting of Text)	**High** Tension Line	
_ExStructure : • Exist.work To be Demolished • Exist.work To be Retained	Draw an Existing work as a closed Polyline with Text inside it.		

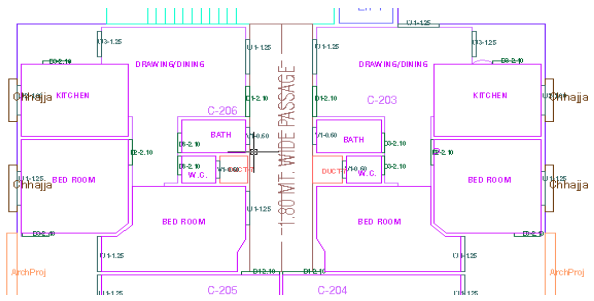
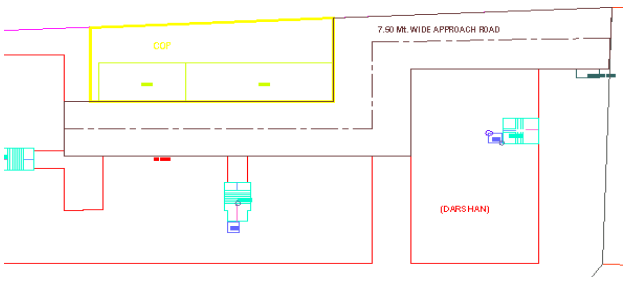
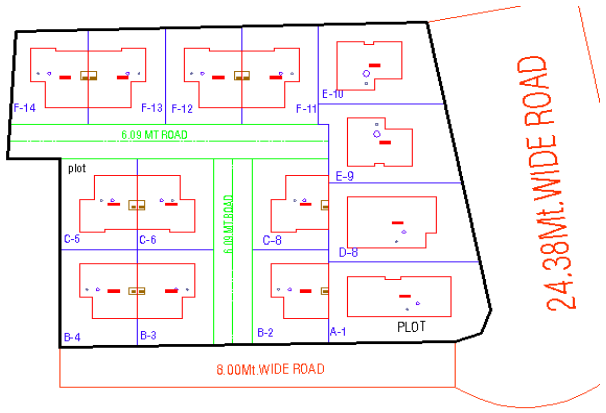
_Floor	Floor poly should be drawn as a closed Polyline with Text on same Layer. This is just a logical Group of all floor Entities. **Common Reference Point** Draw a circle on _ResiFSI layer inside each floor poly at the same point. You can draw it on common areas of the bldg. such as lobby, staircase, lift etc. ·**Direction Reference Point** Draw a circle on _Floor layer inside each floor poly at the same point. You can draw it on common areas of the bldg. such as lobby, staircase, lift etc. **Note:** Common Reference point & Direction Reference point must be inside Each Floor at same location **Floor Name:** Floor Plan will be automatically link with Section by matching the Floor Name. If the Floor is Typical Floor, It should be Named with Proper Naming convention.	Naming Convention will be Provided as per shown in Description	

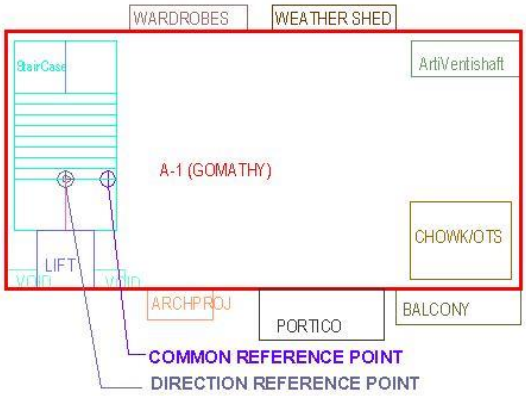
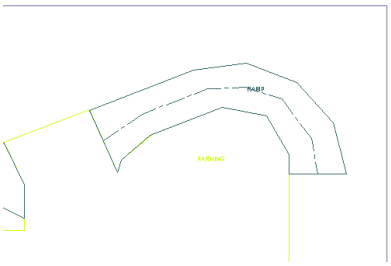
	Naming Convention for Floors • **Normal Floor: X Floor Plan** • **Typical Floor:** TYPICAL-**X,Y & Z** FLOOR PLAN **Note:** • X represents the Floor Name or No. e.g. First or 1st • Typical Floor Name should be provided by using Hyphen(-), Comma (,) and (&) in proper manner. • Each Floor Plan must be having a corresponding Section Floor.		
_FloorInSection	Section floor poly will represent each floor section with its name inside SectionFloor : Floor Plan will be automatically link with SectionFloor by matching the Floor Name. If the FloorPlan is Typical Floor Plan, It should be Named with Proper Naming Convention.	Inside SectionFloor: SECOND FLOOR, THIRD FLOOR, GROUND FLOOR.	

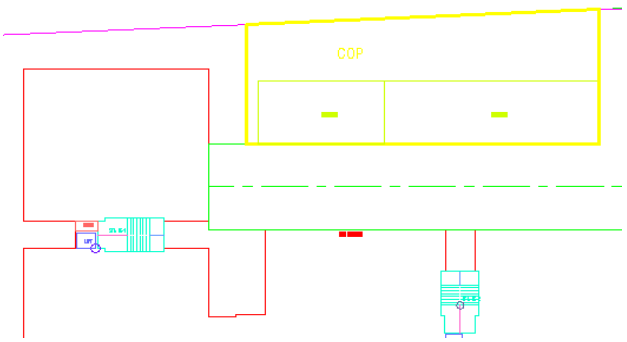
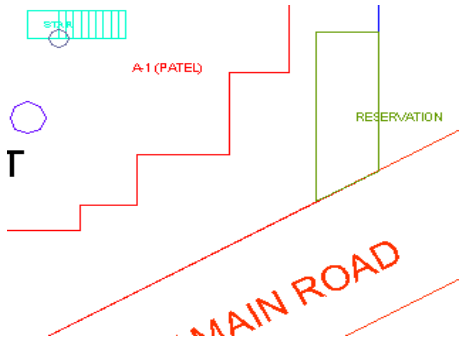
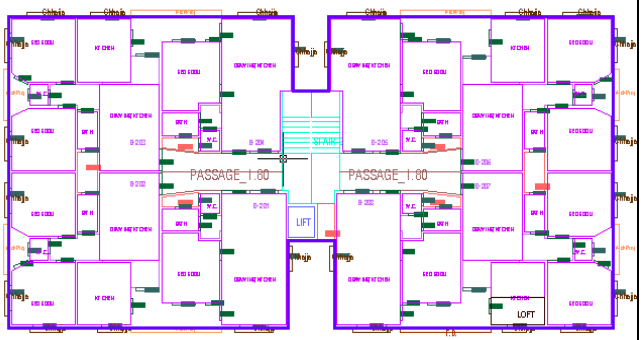
_GroundLevel and _Strret Level	The Ground level and Strret Level line should be drawn as an open polyline in the section poly.		
_IndFSI • Free FSI @Basement • Existing FSI	Draw a closed FSI Polyline, which is used as a Industrial Purpose. *(Line type of Existing FSI poly should be* ACAD_ISI02W100)		
_ IndivSubPlot	For plotting layout draw individual subplots on '_indivsubplot' layer inside main plot which will be on '_Plot' layer.		
_IntDPRoad	Draw an Existing/Proposed DP Road as a closed Polyline with text inside it. (**Note**: Road width must be written at a starting of Text)	12.50 m wd. Existing Road	

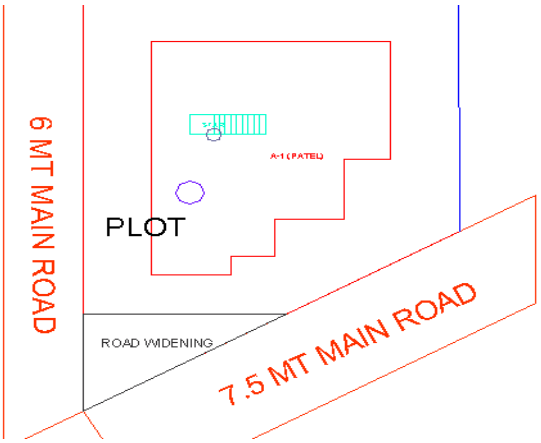
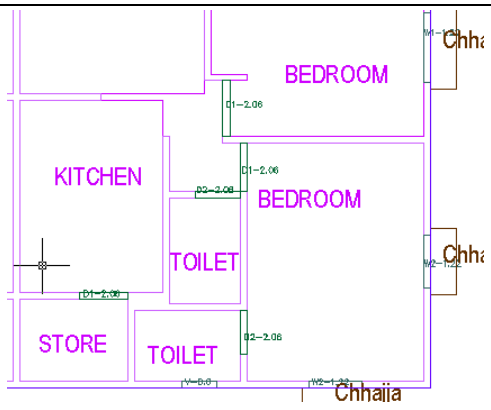
_InternalRoad	Draw Each Internal Road as a Closed Polyline with Centre Line (Ltype-CentreLine) & Single Text inside each. *(Road Width should come first in Text).)*	**7.50** mt. wd. Internal Road	
_Lift	A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Lift. Machine Room shall be also drawn in same Layer with Text "Machine Room"(In Dashed line-line type) At terrace Floor & draw corresponding Machine room at Section		
_MainRoad	Draw Each Main Road (Abutting the Plot) as a Closed Polyline with Single Text inside each. *(Road Width should come first in Text)* *(Building Line of Road can be mark by Mark>Bldg.Line tool)*	**12.00** mt. wd. Main Road	

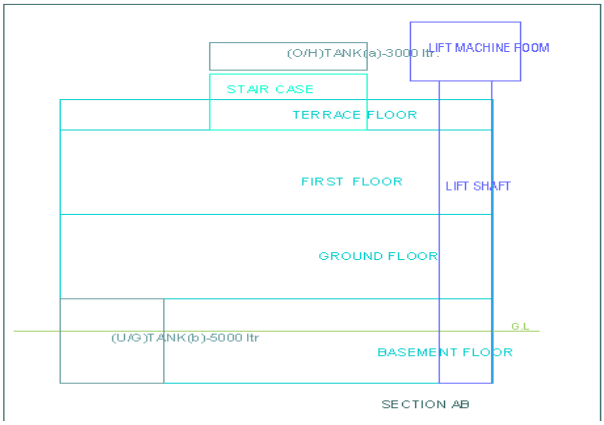
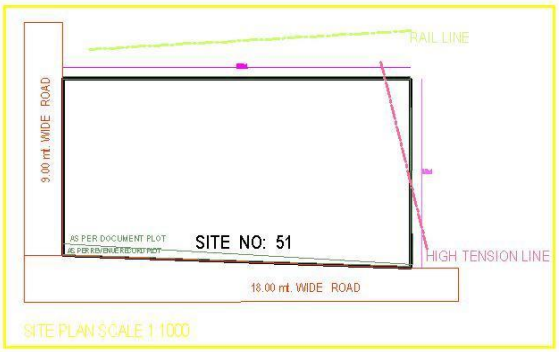
_Marginline	Margin Polylines will be created by System (*User need not do anything on this layer*.)		
_NETPLOT	Netplot area is a Net area after Deduction of RoadWidening / Reservation From Gross Plot area		
_NotInProposal	Plot area which is not in possession or which is not in proposal to be drawn as a closed polyline on this layer.		
_Parking	Draw a closed Polyline for Parkings on "_Parking" Layer. You can also use Insert tool to insert Parking Poly in your drawing. Car Parking-CP, Two-Wheeler Parking-TW, Transport vehicle-TV		

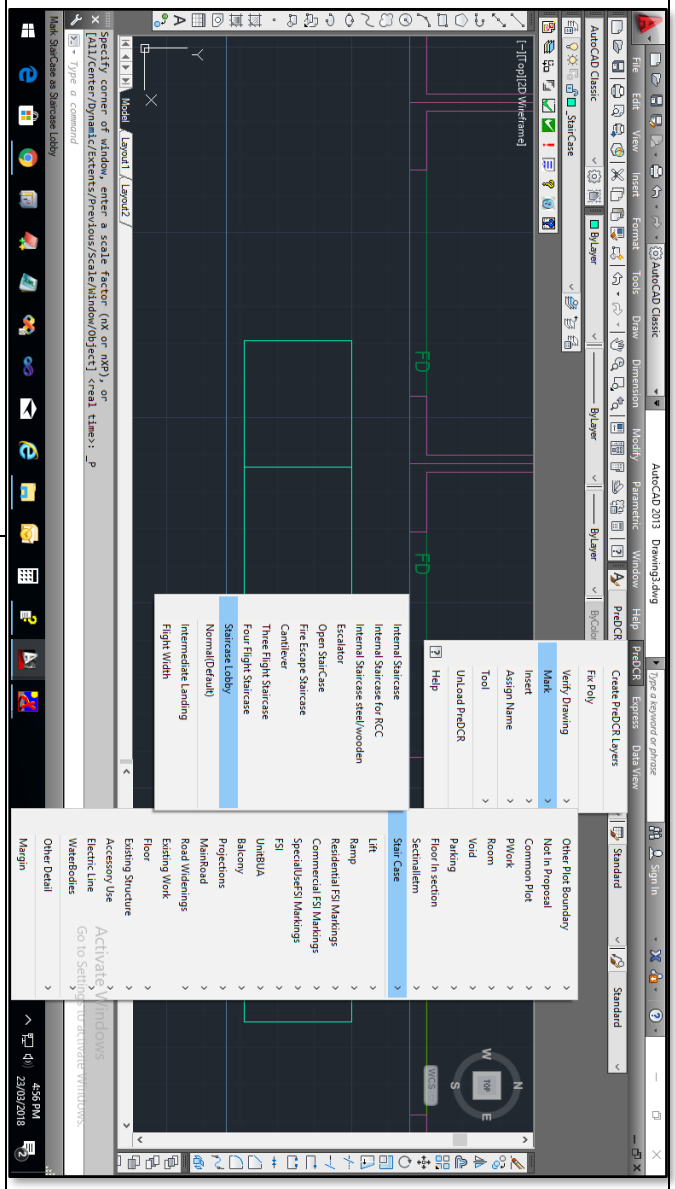
_Passage	Draw Passage as a Closed Polyline with Centre Line (Ltype-CentreLine) & Single Text inside each.	Text should be start with width of Passage Ex.- 1.80mt. wide Passage	
_AccessRoad	Draw Approach road or AccessRoad as a Closed Polyline with Centre PLine (Ltype-CentreLine) & Single Text.	Text should be start with width of AccessRoad Ex.- 1.50mt. wide AccessRoad	
_Plot	Draw Plot as a closed Polyline with Text inside it. At Layout Plan & Key Plan		

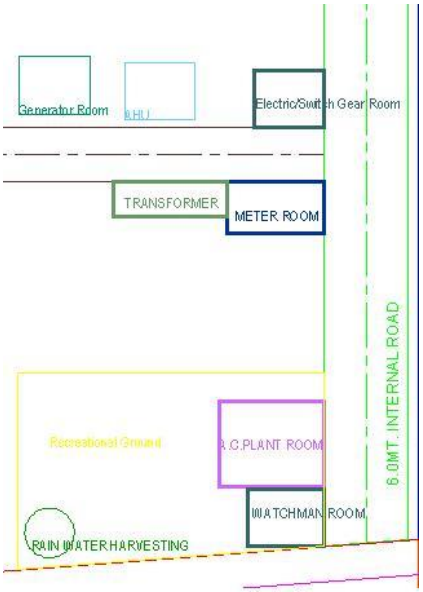
_PropWork	Prop.work is a Built up area(Max.Coverage Area) For Each Building. Draw Prop.work as a closed Polyline with Text inside it. At Layout Plan **Note:** Common Reference point & Direction Reference point must be inside Prop.Work	Naming Convention Should be Provided **A (Bldg.Name)** inside Bldg. Poly & **A-1(Bldg.Name)** Inside Prop.Work Poly	
_RailLine	Railway line shall be drawn in the layout plan as a Open Poly (Ltype-CentreLine) & Text which insertion point lies on the Polyline. (Note: Railway Gauge must be written at a starting of Text)	**XXX** Metre Gauge Railway Line	
_Ramp	Draw a Ramp as a closed polyline with CentreLine (L-type-entreLine) & Text inside it in Plan. Draw RampSection as a closed polyline with Text same as in Plan.	At starting of ramp name you mention ramp Length n Height Ex.- 30.0mt. Long 1.80mt. High Ramp	

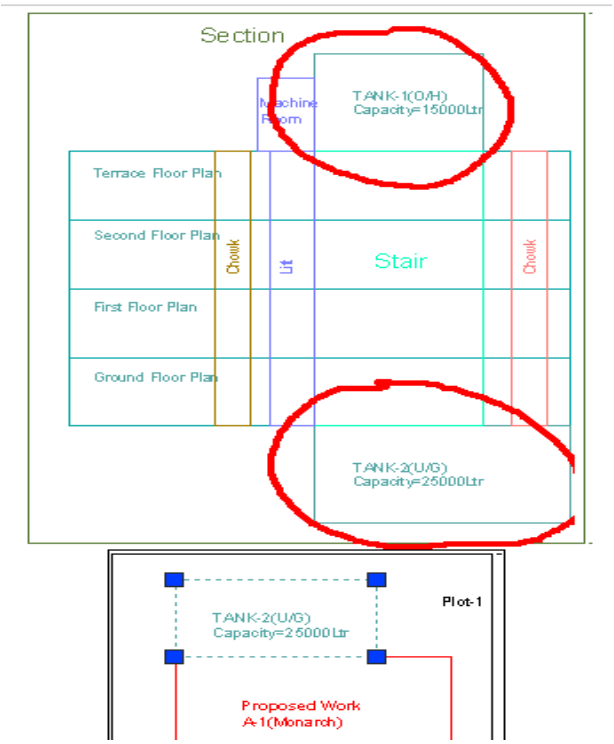
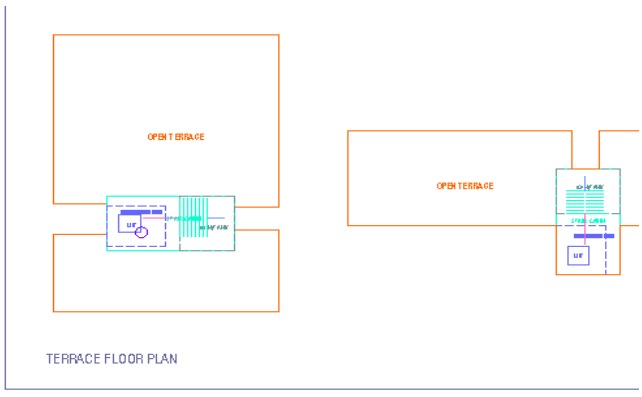
_RecreationalGnd	Draw a closed polyline on "_RecreationalGnd" Layer to represent reserved as recreational space.		
_ReservArea	If there is any Reservation Area in Plot, Reservation Area should be drawn as a closed Polyline with Text inside same Layer.		
_ResiFSI • Free FSI @Basement • Existing FSI	A Closed poly with Text on this layer represents a Residential FSI or Floor FSI. It will cover whole area which is considered in FSI Area per Floor. *(Line type of Existing FSI poly should be* ACAD_ISI02W100)		

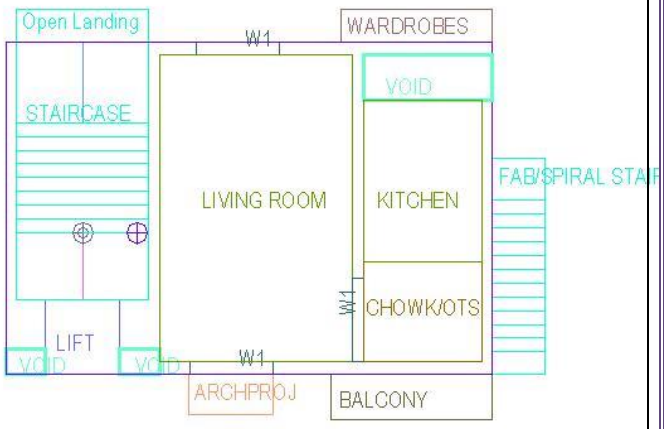
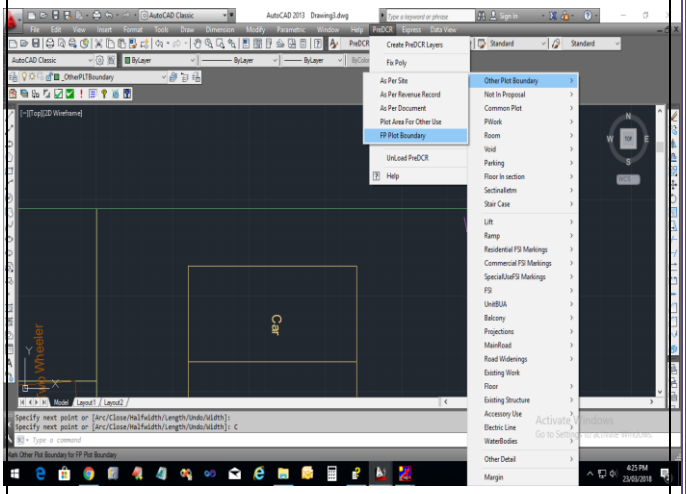
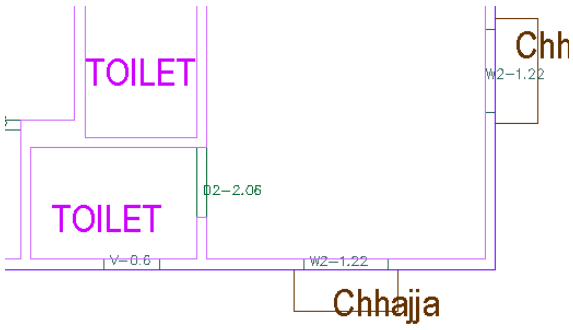
_RoadWidening • Surrendered Free of Cost	A closed polyline with Text around the RoadWidening area should be drawn on same Layer. Margin will be generated & checked from Roadwidening Poly by AutoDCR If Roadwidening area is marked as Surrendered Free of Cost		
_Room	A closed polyline for each room with its text inside should be drawn on this layer.		

_Section	Section poly should be drawn as a closed Polyline with Text on same Layer. It is used to group all Sectional detail like Floor Sections, Plinth, Staircabin, Lift , machine Room etc. This is just a logical Group of Sectional Entity. (*Note: Area or size of Floor does't have any meaning in AutoDCR*)		
_SitePlan	The encapsulating poly around the Site/Key Plan with the Text & Scale inside it. (**Note**: Scale should be written as described. Scale:1:500)		

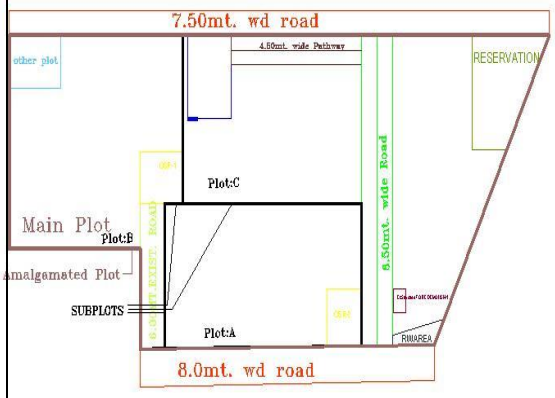
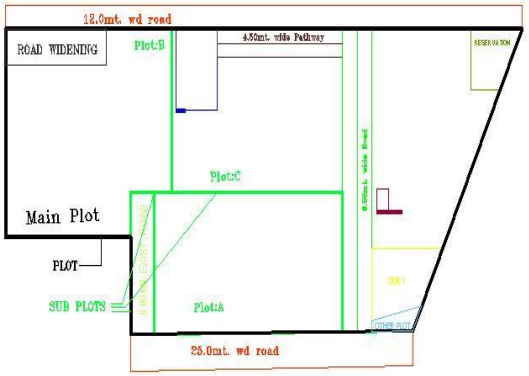
_SpecialUseFSI • Free FSI @Basement • Existing FSI	FSI ploy for all other building uses like educational, institutional etc. except resi.,comm. industrial use should be drawn on this layer. *(Line type of Existing FSI poly should be* ACAD_ISI02W100)		
_StairCase • Intermediate landing • Flight Width • Floor Landing	Total Staircase area should be drawn as a closed polyline with text inside it. This Main Stair Poly should contain Intermediate Landing as well as Floor Landing area inside. (*Intermediate Landing & Floor Landing Poly color should be as described*)	Give Proper Naming convention for other staircase like Open staircase, Open Landing, Fabricated/spiral staircase	

_AccessoryUse: • Elect.room • Transformer • Watchman cabin/ SecurityRoom • Servant Quarters • Garage • Rain water Harvesting • Motor room • A C Plant Room • Meter Room • Septic Tank • Sewage Treatment Plant • Lumber Room • Gate Pillar • Lavatory • Pebble Bed • Solar Heating System • Gymnasium • Generator Room • AHU • Electric/Switch Gear Room • Letter Box Room	AccessoryUses which are allowed in Margins or Layout & Free from FSI should be drawn as a closed polyline with text inside it. (Each AccessoryUse *should be drawn As per described Colour*)		

_Tank	Tank clear size should be drawn as a closed Polyline with Text on this Layer in Floor Plan/Layout Plan as well as Section with same Text. (*Note: Tank No. & Capacity should be written in Text*" For Overhead tank- **(O/H)Tank(1)-5000Ltr**. (* 1 is tank No.) For underground tank- **(U/G)Tank(1)-5000Ltr.** (* 1 is tank No.)	Naming Convention will be Provided as per shown in Description	
_Terrace	Terrace should be drawn as a closed Polyline with Text on same Layer.		

_Void	Void should be Draw as Closed Poly with Text inside in same layer		
_otherplotboundry	FP boundary should be drawn it on otherplotboundary layer and mark by marking tool.		
_WaterBodies	Water body should be Drawn in Close poly with text nside		
_WaterLine	Waterline shall be Drawn As open poly on this Layer		
_Window	Draw Closed Poly & insert Text in same Layer with window ht.	W-1.20,W1-0.90,V-0.60	

For Land Division Proposal :

Layer name	Layer Colour	Description	Naming Convention	
_Reconstitution	ByLayer:33	For Reconstitution Proposal, Draw resulting Plot as a closed Polyline having Text/MText on _Reconstitution Layer Draw All Plots inside Reconstitution poly		
_SubDivision	By Layer:100	For Land Division Proposal, Draw each SubPlot (Subdivided Plot) as a Closed Polyline having Text/Mtext on _SubDivision layer Draw All Subplots inside Plot poly		

2. Introduction to Drawing Formatting Tool Installation

Rule**B**uddy Portal offers instant and easy online access to DC rules and compliance requirements. RuleBuddy works to provide specific rules related to your project just by providing basic keywords and/or project information.

RuleBuddy saves the crucial time spent by you in rework, giving you ample time for creative energies in designing better buildings, thereby gaining on revenue and customer satisfaction.

This document introduces the steps to be followed for 'Registration' , 'Plan Check Service' , downloading, activation and installation of 'drawing Formatting Tool'.

2.1 RuleBuddy Home Page

1. Click the link http://125.99.73.120:8083/home.aspx#, it redirects to the **RuleBuddy Home** page.

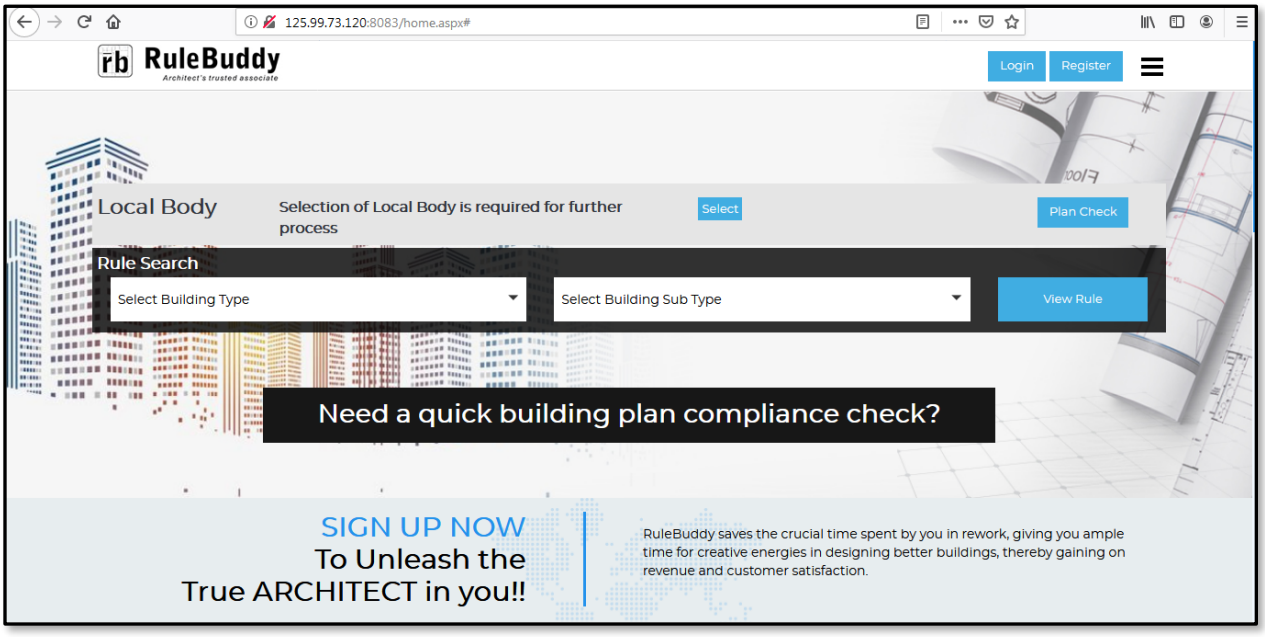
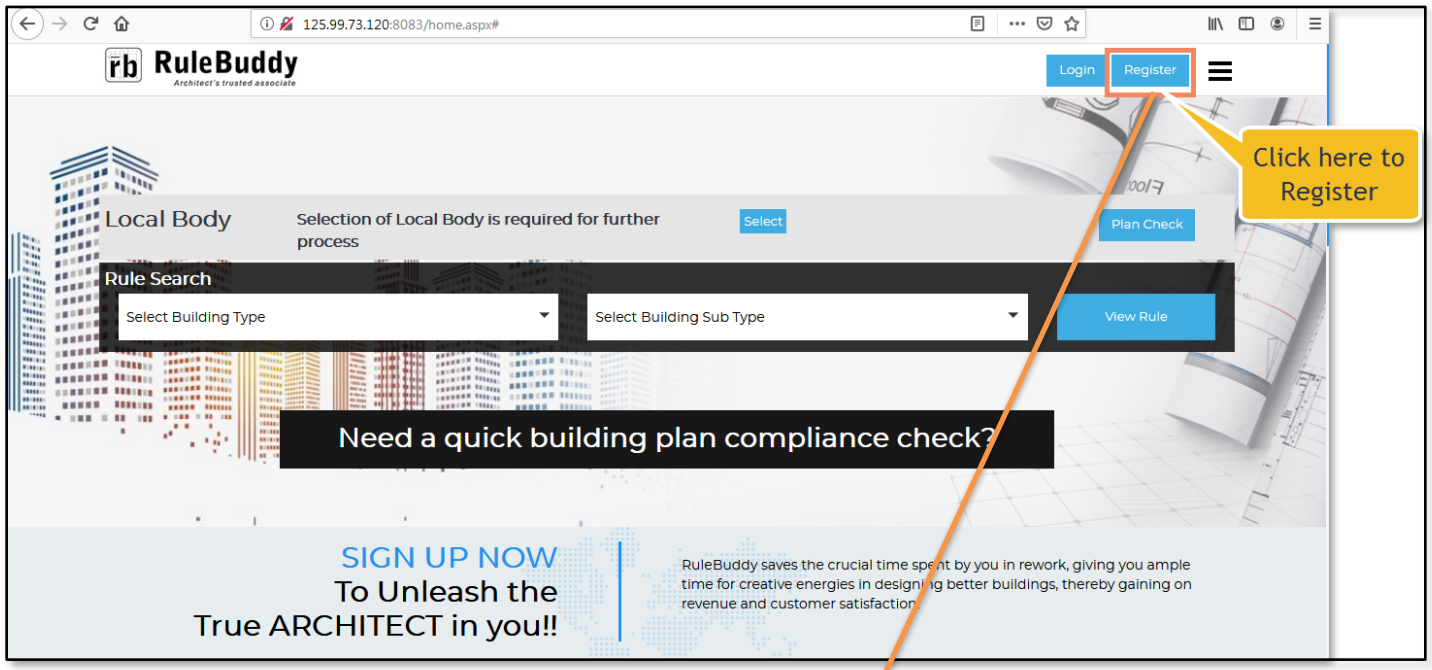


Figure 15 : RuleBuddy Home Page

2.2 Architect's Registration

If architect has not registered, follow the below steps for registration:

(i) Click **Register** button, it moves to the next window.



(ii) Fill all the details as follow:

(a) Enter your **First Name**.
(b) Enter your **Last Name**.
(c) Enter **E-mail ID**.
(d) Set the **Password**.
(e) Enter your **Mobile Number**.
(f) Now, click **Get OTP** button. The OTP number will be available on your mobile.
(g) Enter **OTP** number.
(h) Click **Register** button to create the login.

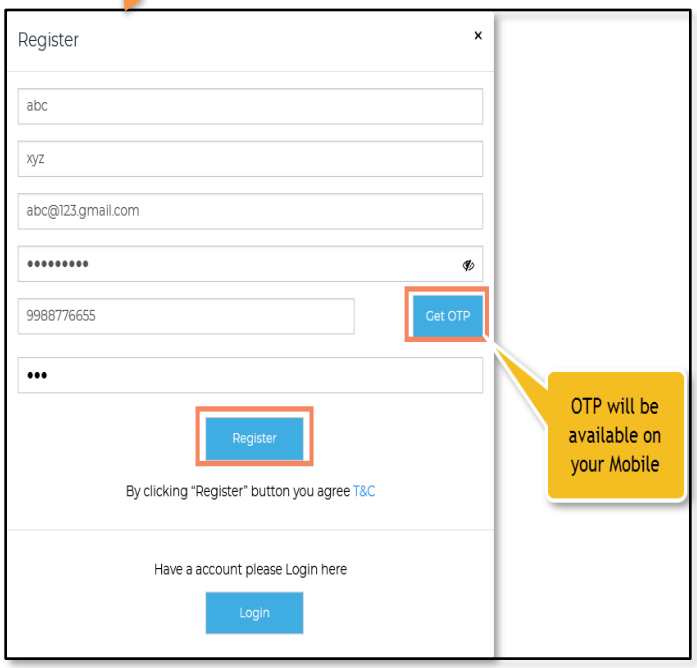


Figure 16: Registration Process for an Architect

2.3 Login Page

If architect has already registered, follow the below steps:

(i) Click **Login** button, the next login window opens.

(ii) Enter the **Email-id**, and login with **OTP** or **Password**.

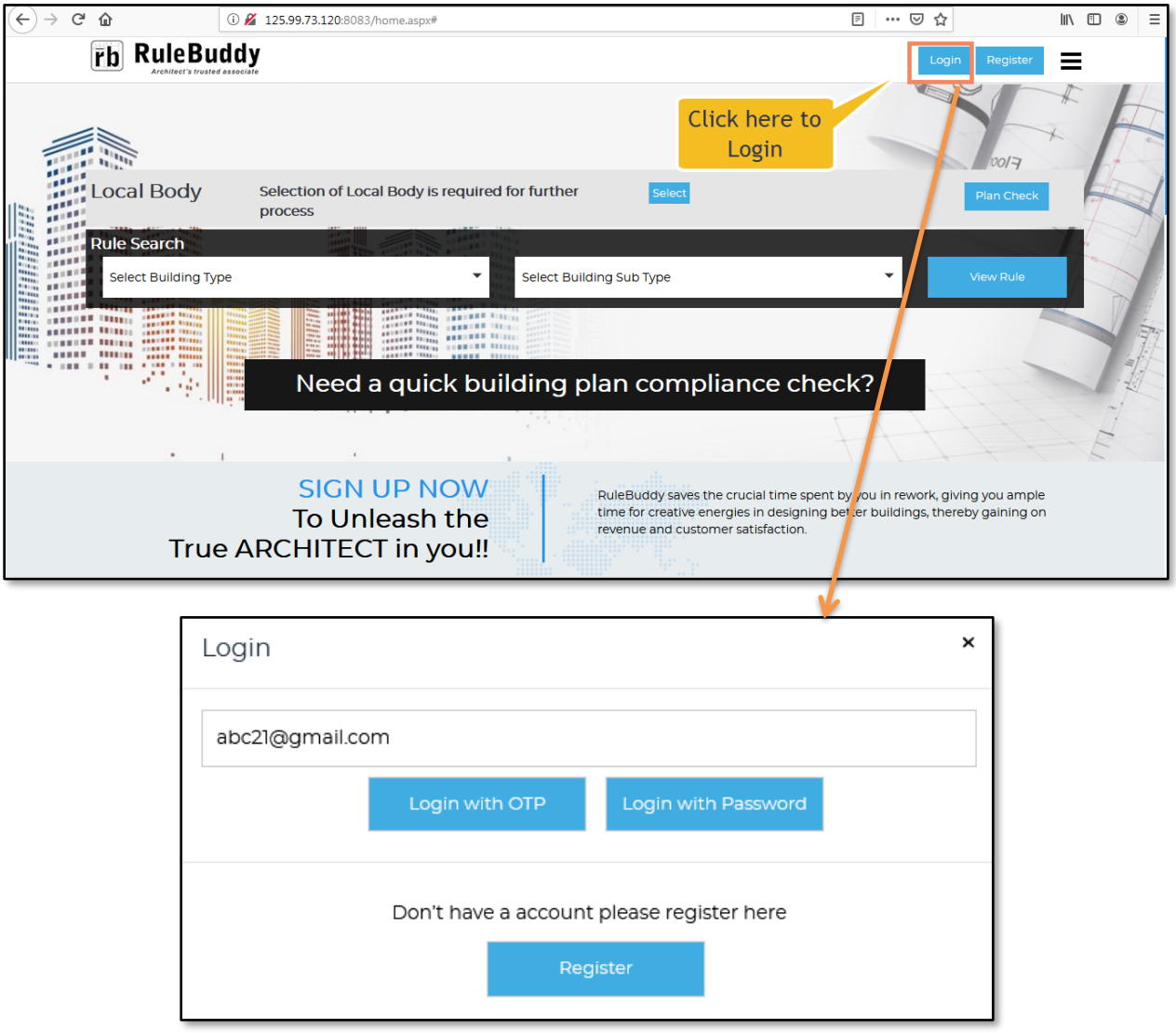


Figure 17: Architect's Login

2.4 Selecting the Local Body

For the selection of local body:

(i) Click **Select** button, it moves to the next window which includes Map, Pincode and District details.

(ii) Now, fill all the details from the drop-down lists.

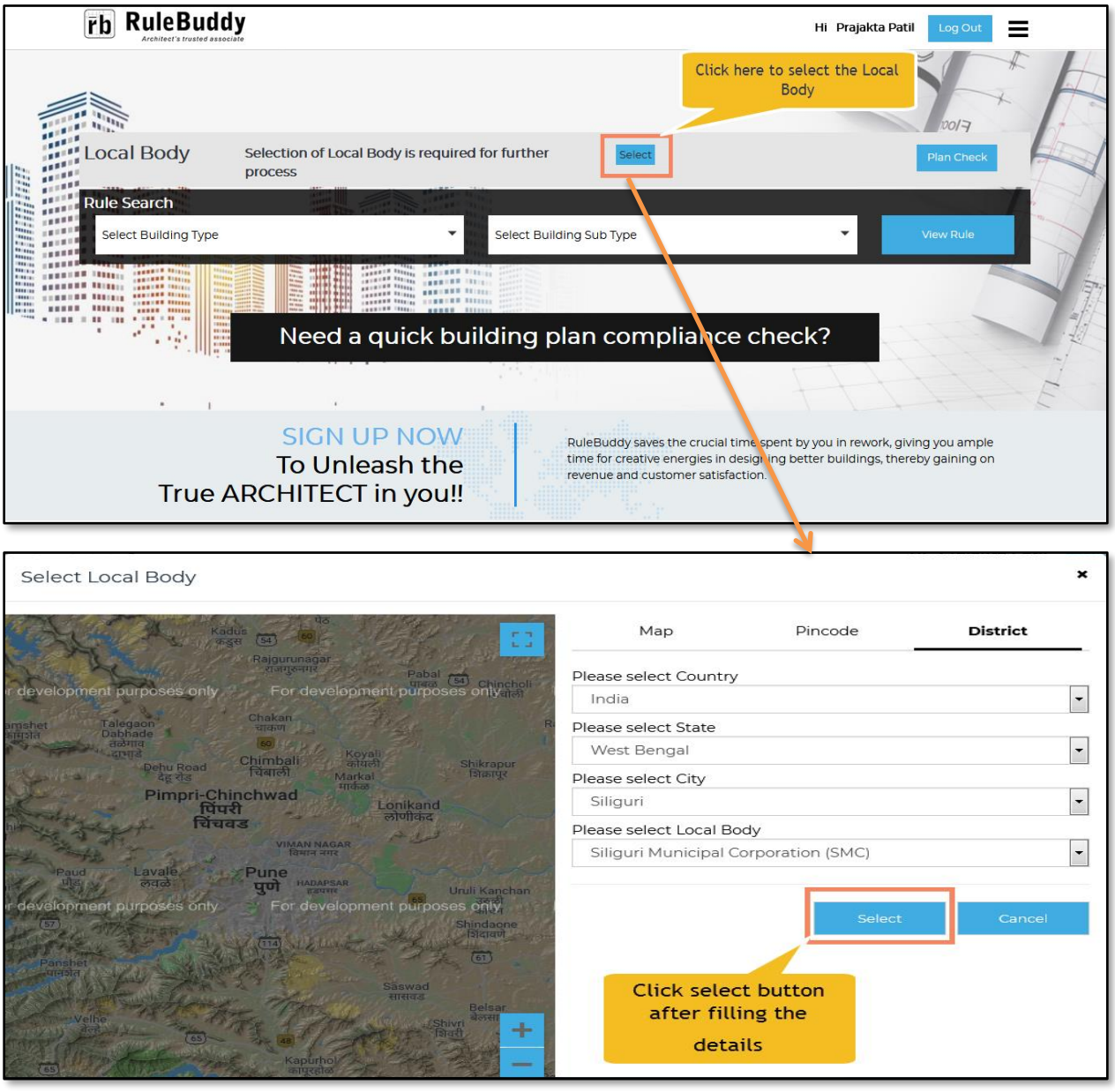


Figure 18 : Selecting the Local Body

2.5 Plan Checking

(i) Click the **Plan Check** button, it moves to the another window.

(ii) Click **Proceed** button to go for the Plan Check Service as shown in following Figure5.

Figure 19: Proceeding for Plan Checking

(iii) Click the button **Copy** to copy an Activation Key which is required for downloading the **Drawing Formatting Tool**.

(iv) Now, click **Drawing Formatting Tool** to download (Refer Figure 6). Once you click, it automatically downloads the zip file of that tool.

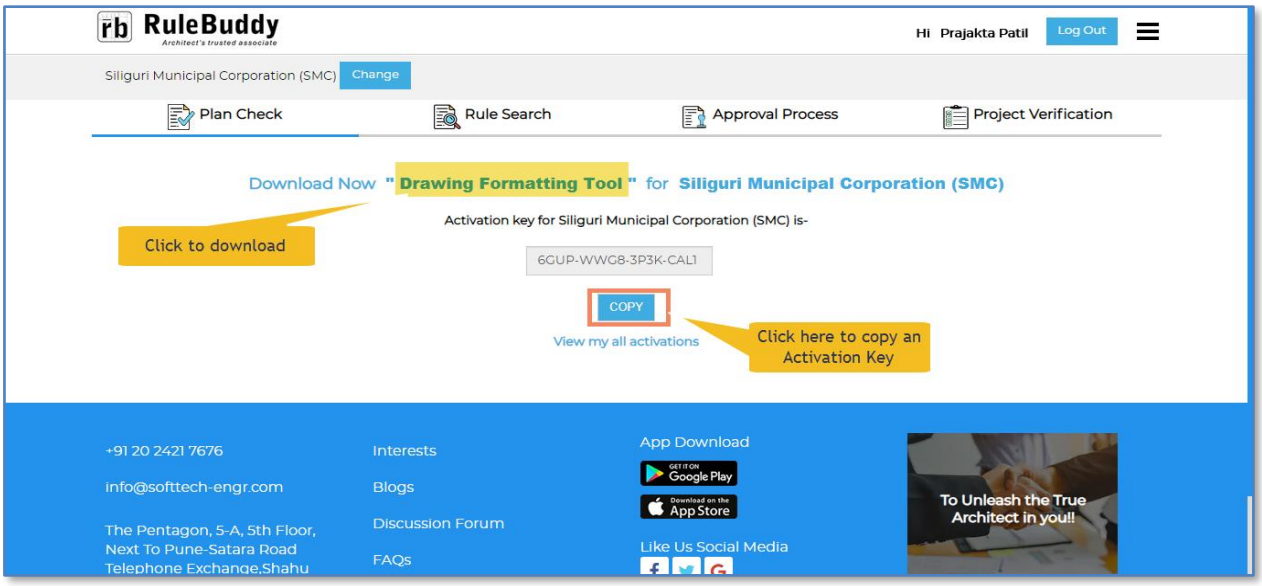


Figure 20: Downloading the Drawing Formatting Tool

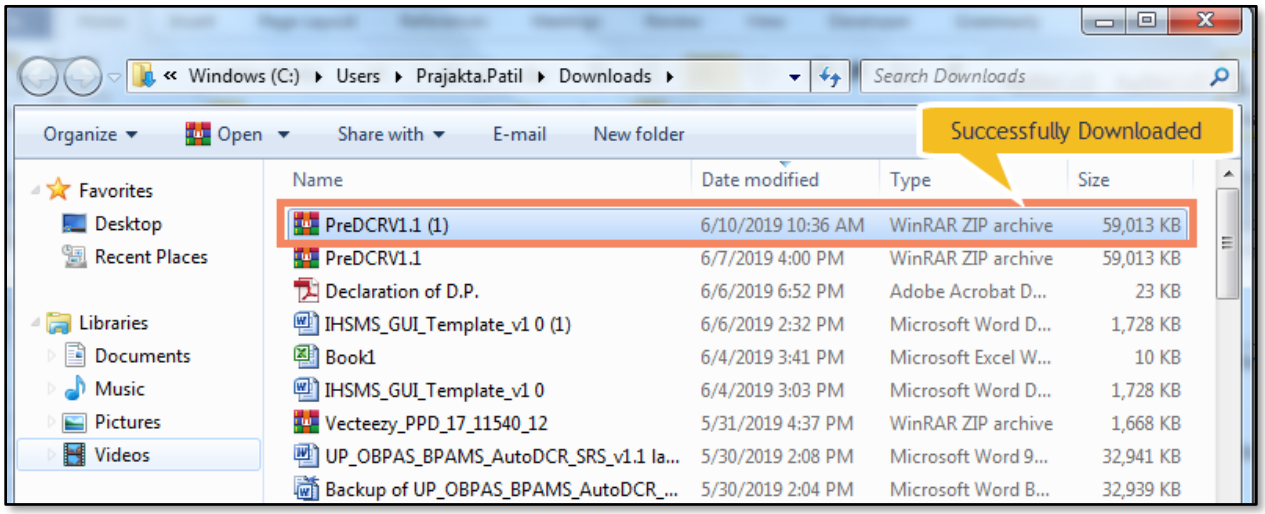


Figure 21: Setup File Downloaded Successfully

2.6 Installing Drawing Formatting Tool

(i) Extract the zip folder in a saved location.

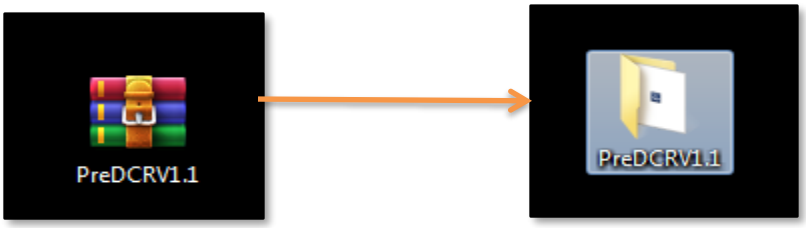
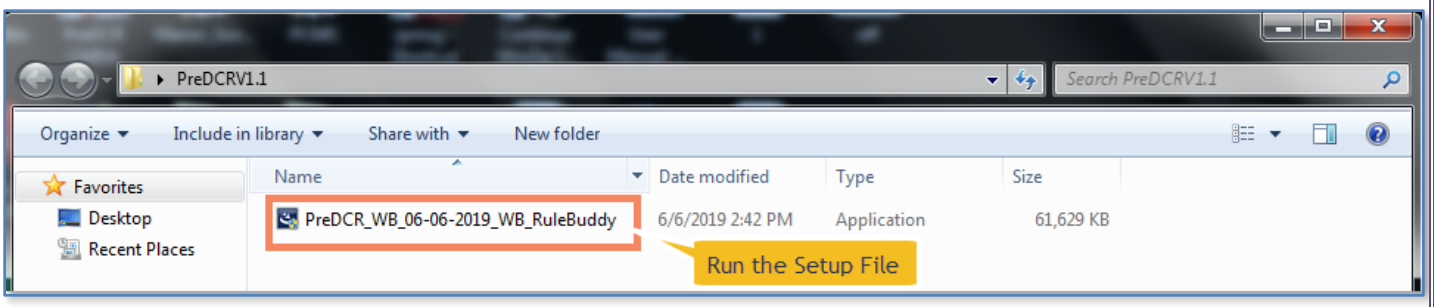


Figure 22: Extracting the PreDCR (Drawing Formatting Tool) Folder

(ii) Open **PreDCRV1.1** folder and run the setup file.



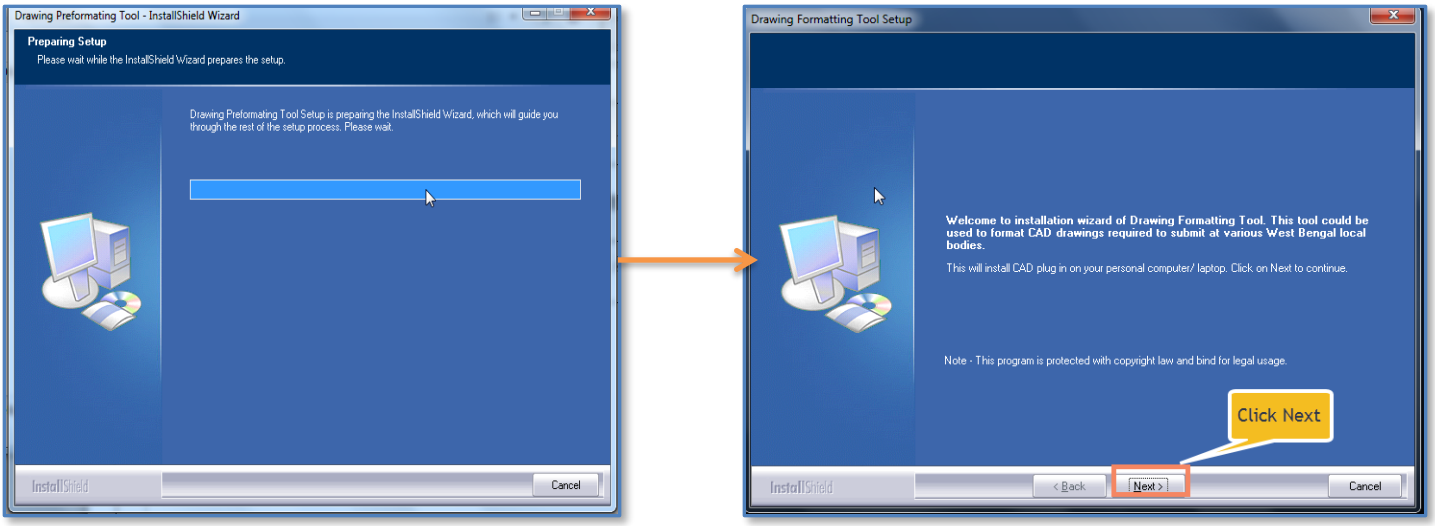


Figure 23: Preparing Setup Files

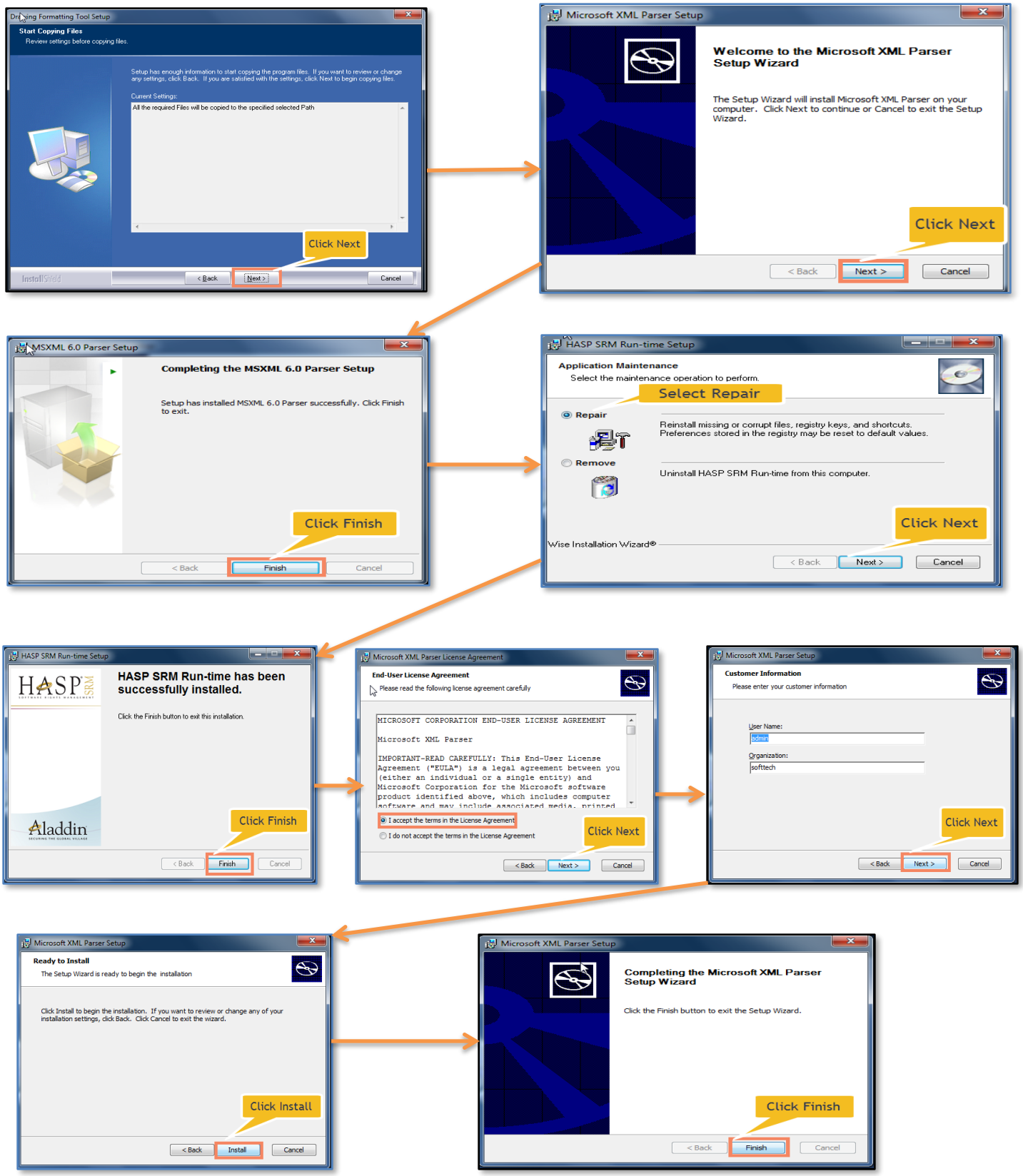


Figure 24: Installation Successfully Completed

2.7 Drawing Formatting Tool

(i) Click the **Drawing Formatting Tool** shortcut.

(ii) Enter the **Activation Key** which is copied while downloading the Drawing Formatting Tool.

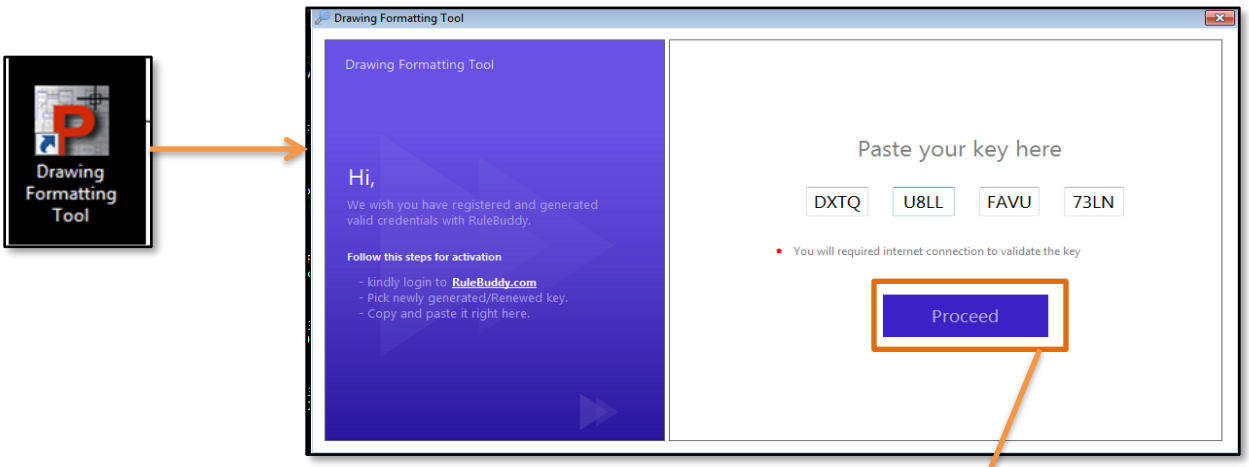


Figure 25: Entering Activation Key

(iii) Click **Proceed** button to open the **Drawing Formatting Tool**.

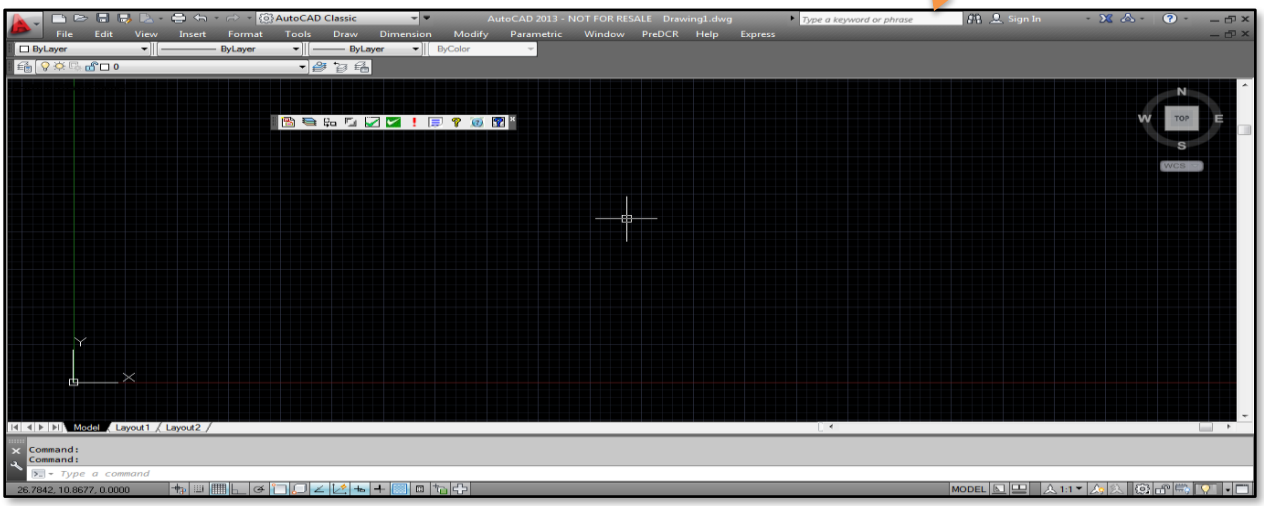


Figure 26: Drawing Formatting Tool

2.8 System Requirements

- Pentium IV or better (or compatible processor)
- 2 GB *RAM (Mini.* Requirement)
- Windows XP and above
- CD-ROM drive
- AutoCAD 2008 and onwards and Zwcad 2017 and 2018

❑❑❑