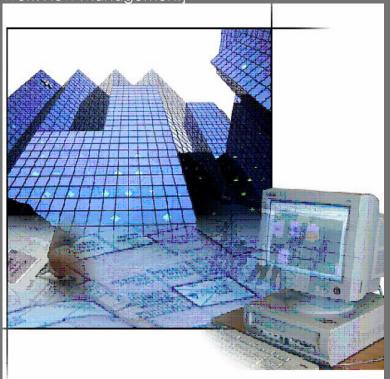
Ujjain Municipal Corporation

PreDCR Help Manual

[An Automatic solution for Approval of Building Proposal and Work Flow Management]



PreDCR Softtech engineers .pvt. ltd 2/11/2010



PreDCR Manual Ujjain Municipal Corporation

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Document outline

About the drawing protocol document

Ujjain Municipal Corporation has planned to automate the building plan approval process by introducing AutoDCR system. AutoDCR software reads the CAD drawings submitted by architects and automatically produce the deviation report based on the control regulations prescribed by UMC.

The purpose of this document is to establish a set of guidelines to Architects for preparation of drawings to be submitted for taking Building Permission from UMC, Uniformity in the process of drafting of the drawings to be submitted for approval is required for automation of building approval system by introducing AutoDCR system.

The consultants/Architects should prepare the drawings keeping specific objects in specific layers with specific colors and text. The layers required to be generated with explanation of what is required to be drawn on which layer is described in this document. This document serves as a source of information on obtaining level of consistency in drafting and approval process focuses on both the theoretical and practical description of process flow and protocol to be used while preparing drawings for submission at UMC for Building Permission. The document explains use of PreDCR utility.

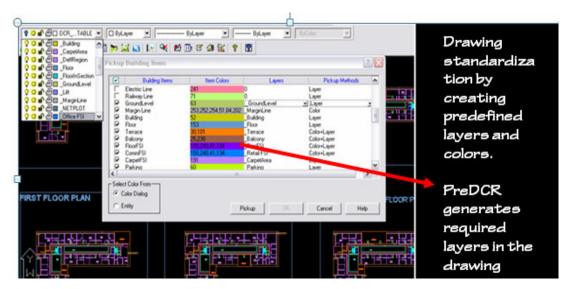
How to read this drawing protocol document?

This document should be read in conjunction with the building bye-laws which will be applicable for approval of a proposal. The reader of this document should have understood the applicable bye laws for scrutiny of a proposal. The reader should also be familiar with AutoCAD terminology and environment for better understanding of the system. It is more exploratory in nature than the specifications and contains sections to explain particular aspect of planning and designing.

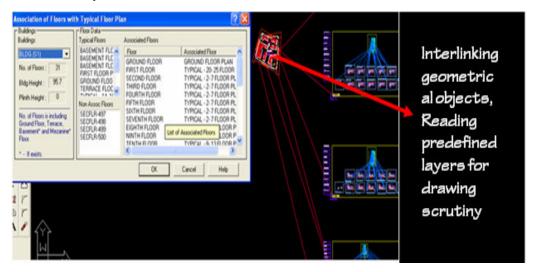
Drawing pre-formatting utility (PreDCR)

Overview

AutoDCR is a unique and innovative approach to automate scrutiny of building proposals by reading CAD drawings. AutoDCR software needs preformatted drawings with some specifications. PreDCR is a software application used to create the architectural plan as per AutoDCR software requirements. It helps in standardization of drawings and helps in reducing time required for preparing submission drawings. It works under AutoCAD environment with additional menu & toolbar.



Using PreDCR 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 entities on the corresponding layers with the help of PreDCR software. Short commands are provided to activate any layer in PreDCR. PreDCR also helps in correcting drafting errors in the drawing. 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. PreDCR will highlight all the failed entities if any.



Aims & objectives

To bring uniformity and standardization in submission drawing format.

To create error free drawing by auto-correction of drafting errors.

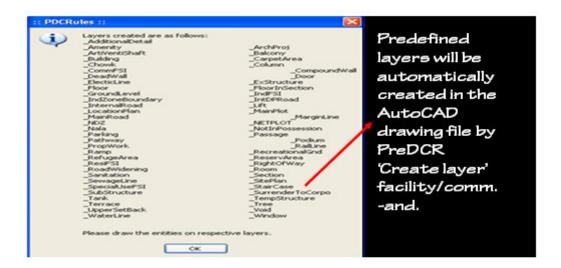
To Increase drafting speed and efficiency

To reduce drawing data redundancy.

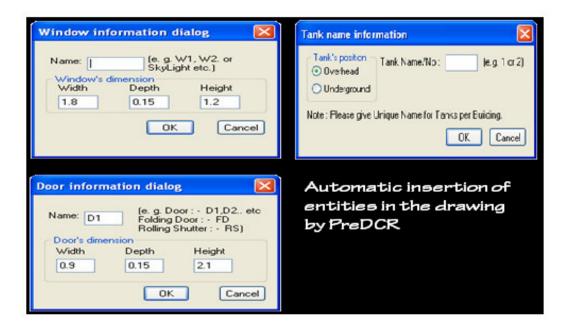
To remove dimensioning and area calculation requirements from submission drawing format and auto-calculating areas in AutoDCR automatically.

Salient features

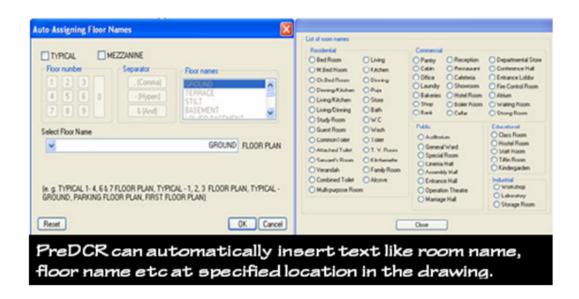
Automatically creating required layers in the drawing.



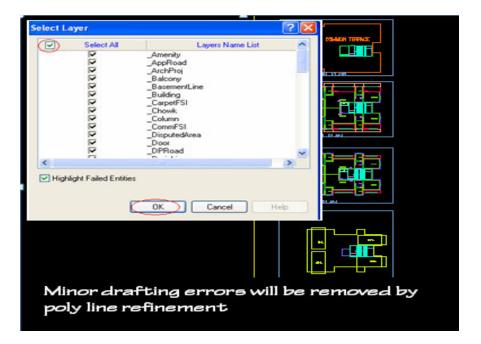
Automatically creating and inserting entites of required size in the drawing: User can define size of entity and insertion point in the drawing. PreDCR will create and insert entity in the drawing at specified location.



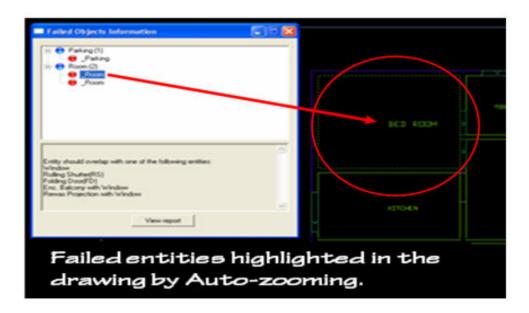
Automatic insertion of required text in the drawing.



Drawing cleaning, refinements of poly lines, text and closed entity verification will be done by PreDCR to eliminate drafting errors.



PreDCR verify and will highlight failed entities in verifications with detailed explanation and Auto-Zooming.

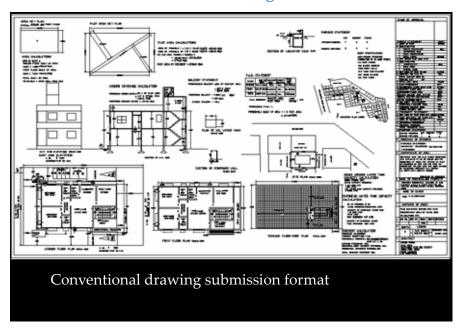


Benefits of PreDCR

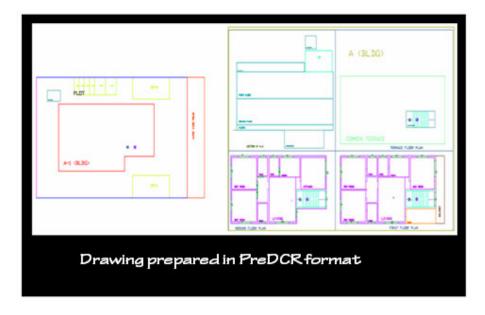
- 1) Standardization of submission drawings-Brings uniformity & standardization in submission drawing format. This software will correct some minor drafting errors and also provide list of failed entities with Auto-zooming facility so that user can easily locate the failed entities in the drawing.
- 2) Operational ease and convenience-Data redundancy is eliminated from the drawing. Only minimum required entities are to be drawn in the drawing as most of the data will be auto detected by the system from existing available data.
- 3) Increased speed and efficiency-PreDCR facilitates Auto insertion of many drawing entities like parking, door windows etc of required size and number. Test auto-insertion facility saves text typing efforts. Auto-dimensioning and auto-calculation facility saves calculation efforts. Using this software user can create all the required layers at one click.
- 4) Accuracy Accuracy in area calculations is achieved. Preparing Calculation tables, showing dimensions in the drawing is not required.

Drawing formats

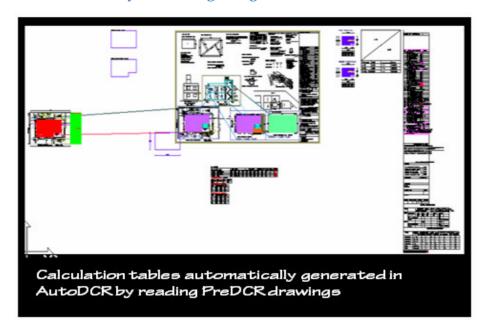
1) Conventional submission drawing format



2) As per PreDCR format specified by PreDCR



3) After scrutiny of drawing using AutoDCR-



Protocol details

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

Using PreDCR 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 the corresponding layers. Short commands are provided to activate any layer in **PreDCR**

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. PreDCR will highlight all the failed entities if any.

PreDCR can be used to modify/make and verify the existing or new architectural plan as per AutoDCR software requirements. Users are free to use AutoCAD commands and or PreDCR 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.

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 Railway Line, Drain line, Water Line, Electric Line, Dead Wall and Ground lvl.).

Building Sub-Items <u>must be exactly inside of outer closed polygon as per their place</u> 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 **PreDCR** 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 Using <Assign Name> function of PreDCR 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.

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 plan. For each proposed work.

Installation and Registration

System Requirements

- Pentium IV or better (or compatible processor)
- 1GB RAM
- **USB** Port
- Windows 98/2000/XP(32bit and 64bit)/Vista/Windows7(32bit and 64bit)
- CD-ROM drive
- AutoCAD 2000/2002/2004/2005/2006/2007/2008/2009/2010/2011.

Installation

To install PreDCR software on your computer please follow the given steps.

Step 1: Insert the supplied PreDCR CD in CD drive of the computer.

Step 2: Run the PreDCR installer by double clicking on file "PreDCR_Installer.exe" in the PreDCR CD.

Step 3: Follow the next steps in installer wizard to complete installation.

After successful installation, a PreDCR shortcut will be placed on your computer desktop as shown below.



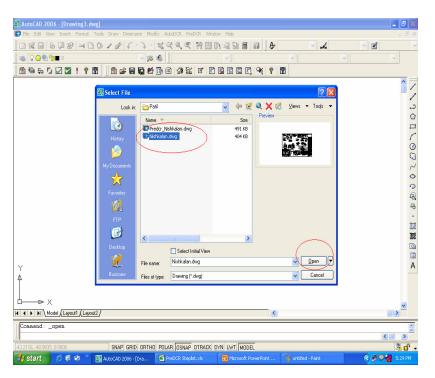
Figure 1: PreDCR shortcut on desktop

Methodology

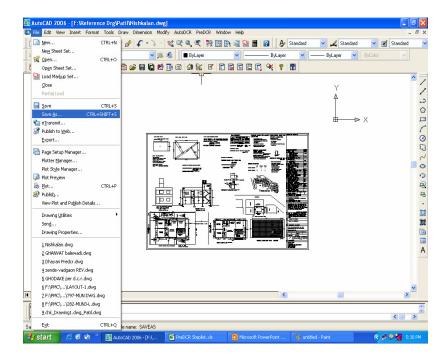
1) Open the PreDCR software for clicking on PreDCR menu on your desktop & select the Autocad version & then click on "OK" button.



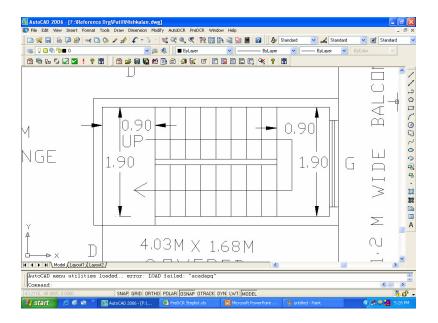
2) First open submission drg which is now converting in PreDCR format.



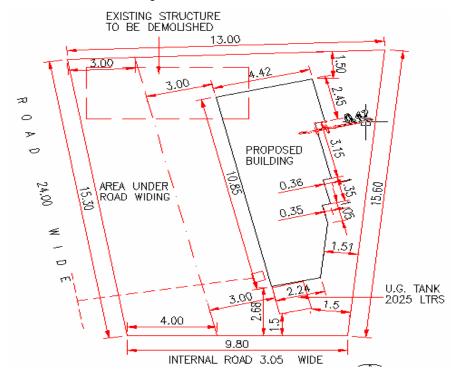
3) Save as your dwg with give some name.



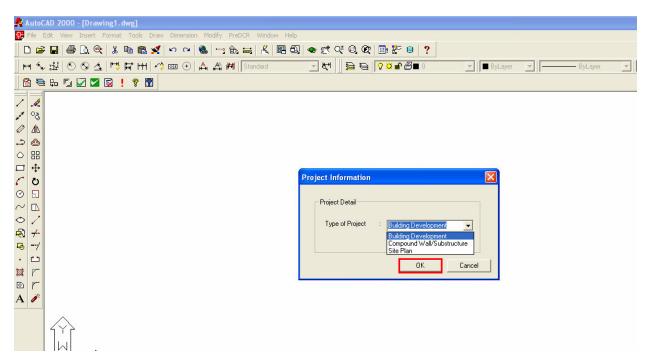
4) Check the scale by using Scale command. If dwg is not in 1: 100 scale then covert into the 1:100 scale. & then make that drawing in metric scale if it is in other than meter.



5) Also make the site plan in 1:100 scale.



- 6) By using PreDCR toolbar first select the Type of Project that is "Building Development or Compound Wall/substructure "or side plan
 - a) If Plot is Already sanctioned & user have to take permission for the buildings only then select "Proposed Development."
 - b) If Proposal having a only compound wall approval or only subsidiary structure approval without any main building then select that "Compound Wall/Substructure" option from the list.



7) By using PreDCR toolbar "Create a DCR layer" that is second option in PreDCR toolbar.

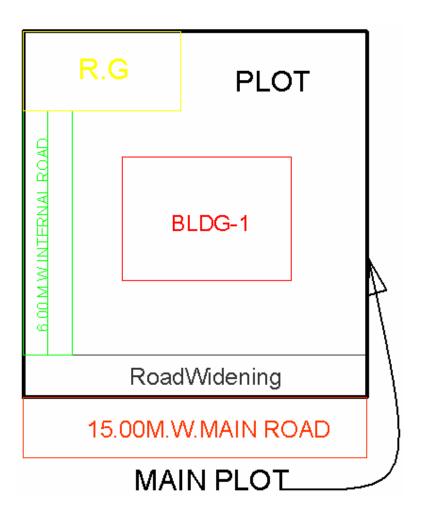




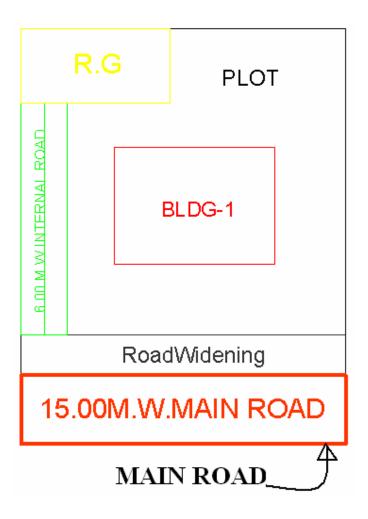
8) Then u will get the list of PreDCR toolbar, then just click on "OK" button. Now all the Layers u will get in Layer Properties managers.



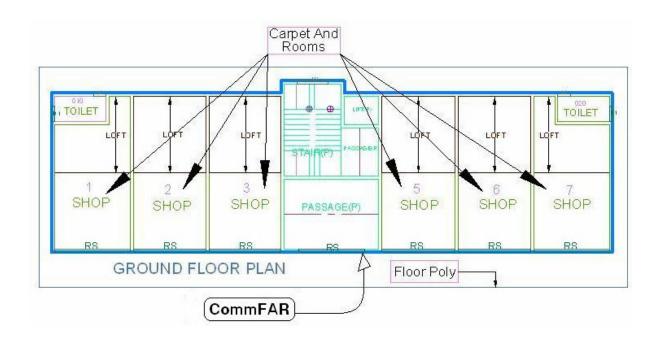
Now Select current Layer is "_ Main plot" & Draw a closed polyline on this layer. Also give the plot name on that layer only.



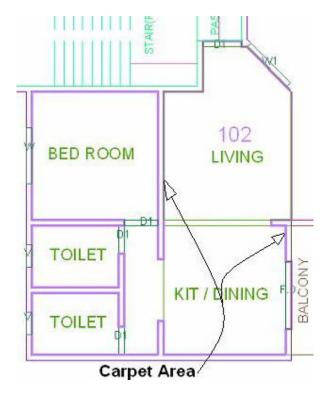
Make the current layer '_Main Road" & Draw a road on this layer. Give the Name of road which is starting with it's width.



Make the current Layer "FAR" as per your project having that use you can select that use of FAR. e.g. For Residential use - Select "_ResiFAR" poly, For Commercial use select "CommFAR" poly. & Draw a area key plan line on this layer. No need to give any name on this Layer.

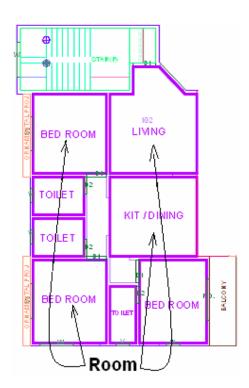


Make the current Layer "_Carpet Area" and draw a closed poly on this Layer which having floor area excluding wall area. Also give the name on this Layer. If carpet is splitted no of places but having only one tenement then use the Splitted tenement option from PreDCR Mark menu bar.

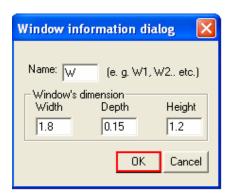


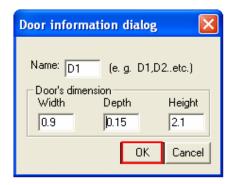
CARPET AREA

Make the current Layer "_Room" and draw a closed poly on this layer. If room having rectangle shape then u can use rectangle also. Assign the room name for using the assigned name option from PreDCR menu bar.

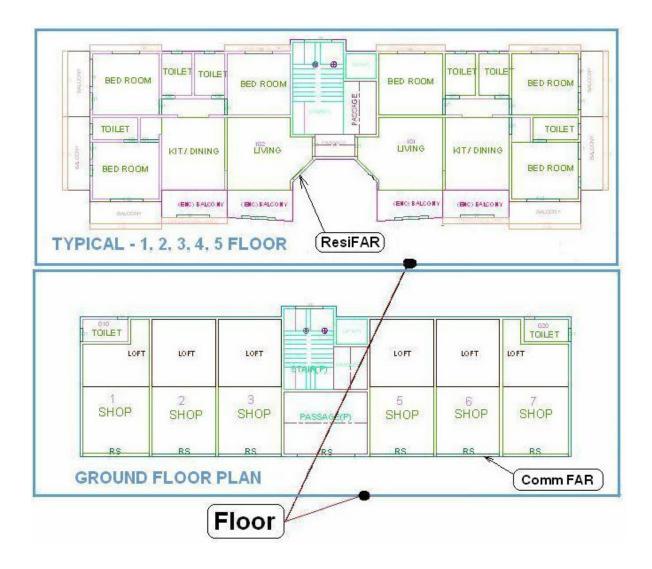


: Insert the **doors & windows** by using insert option from PreDCR menu bar.

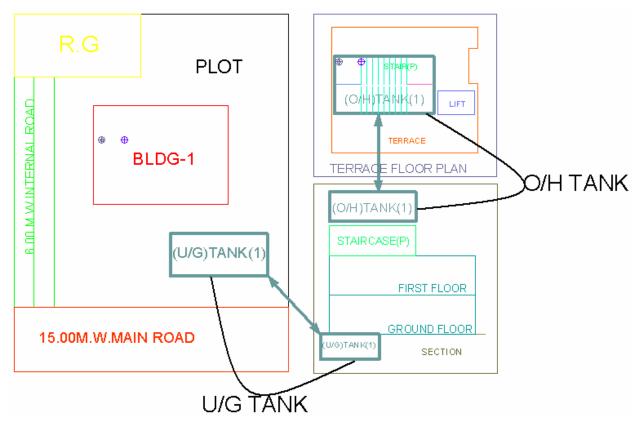




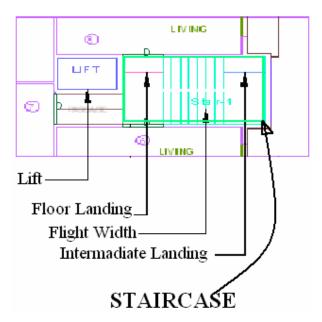
15) Make the current layer "_Floor" and draw a boundary outside of each & every floor.



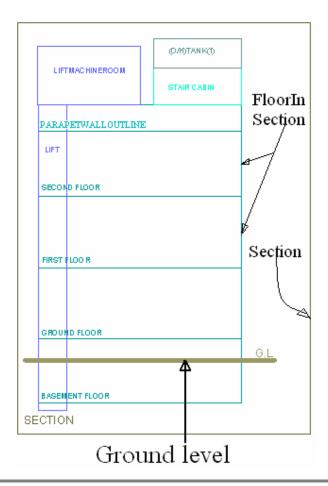
16) Make the current layer "_Tank" and draw U/G & O/H tank in plan as well as in section also. Assigned this tank name by using Assigned name option from PreDCR menubar.



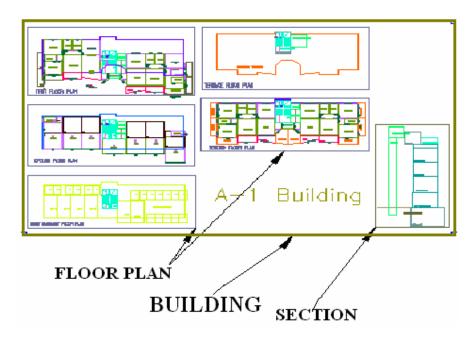
17) Make the current layer "_Staircase" and draw all the riser on this layer which is a open polyline. Also draw two extra line on this layer which is showing a floor landing and intermediate landing. Then mark this landing for using staircase landing option from PreDCR menu. Also mark the staircase which having type. For spiral and fabricated staircase no need to draw riser & landing marking.



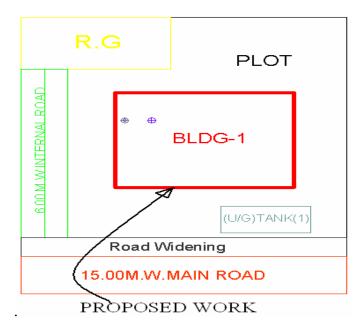
18) Make the current layer is "_Ground Level" and draw an open polyline on this layer which is place below the plinth level.



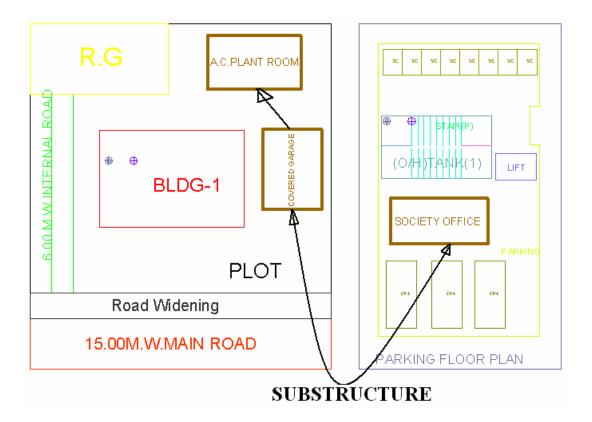
Make the current layer is "_Building" and draw a boundary on this layer which is having a group of all the floors with section



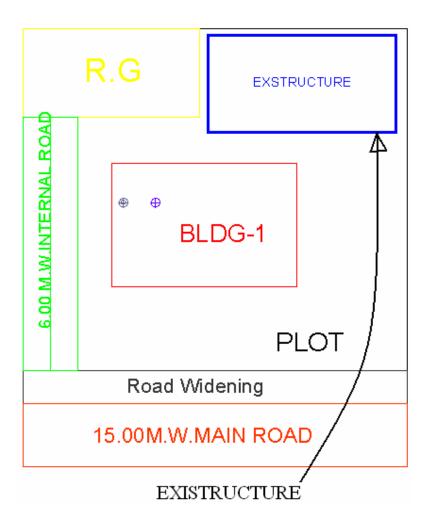
Make the current layer is "_Proposed Work" and draw a total coverage on this layer. Assigned this proposed work by using "PreDCR->Assigned name -> Building & proposed Work from PreDCR menu.



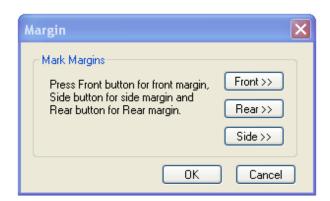
If project having any Substructure then draw a closed polyline on "_Substructure" layer. Also mark this substructure by using "PreDCR-> Mark-> Substructure from PreDCR menu bar.



If project having any Existing structure then draw a closed polyline on "_Restructure" layer. Also mark this Restructure by using "PreDCR-> Mark-> Restructure from PreDCR menubar.

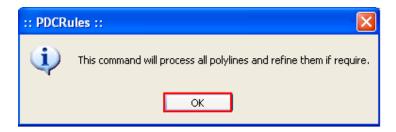


Mark the margins by using Mark-> margin from PreDCR menu bar

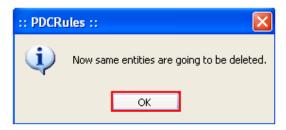


After converting all the Layers use the "Fix poly" option from PreDCR menu bar.





Just click on "OK"

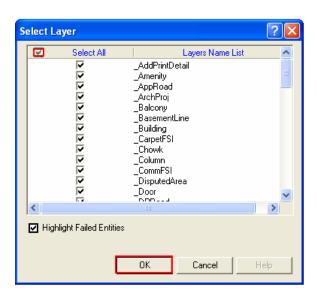


Just click on "OK"



When u will get these message "Refinement of Polyline is done" then select the "Verify **Closed poly**" option from PreDCR menu.

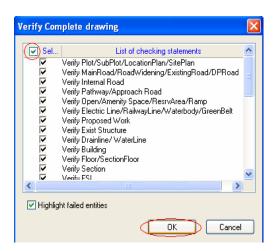






: When u will get these message "Entities on PreDCR Layers are verified and found o.k." then only u can submit a softcopy of your drg to the Corporation.



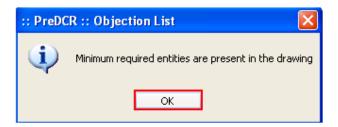




27) Also check the "Objection list" which user are missing to convert in PreDCR layer.







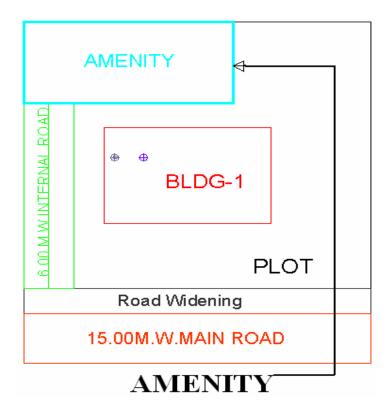
PreDCR Layer Information:

_Amenity:

Description:

Draw Amenity space as a closed polyline which is reserve for utilities, services and conveniences.

Shortcut Command:-AMN

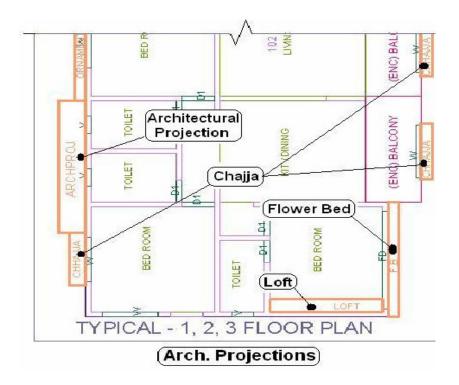


_ArchProj:

Description:

- This layer is used to represent various Architectural Projections in your Plan. Draw a closed Polyline for Architectural Projections. And mark it using Mark->Projection from PreDCR menu, according to requirements. Canopy/porch will come in plot & other projections will come with floor plans.

Shortcut Command: AP



_Balcony

Description:

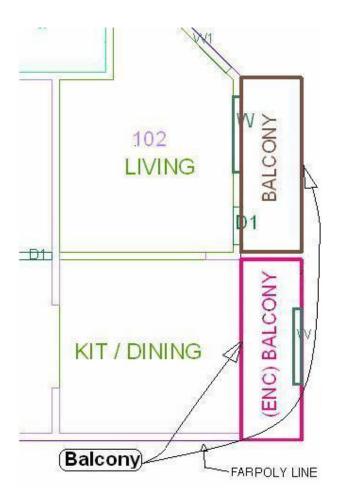
- Draw a balcony as a closed polyline which is a horizontal projection including parapet to serve as a sitting out place. Name of balcony must be inside and on _Balcony layer.

Balcony can be present in:

Plot: It must overlap with PWork (if not enclosed)

Floor: It must overlap ResiFAR

Shortcut Command: BL



_Building

Description:

- Building is used to group all floor plans of the same building. Draw a closed poly enclosing all the floor plans and section of the same building on _Building layer. Note: As written above, dimension or area of this building poly has no meaning in AutoDCR. This is just an logical group of all floors of the same building. If the building plan of multiple PWorks or wings are same then building name shall be as given in table below.

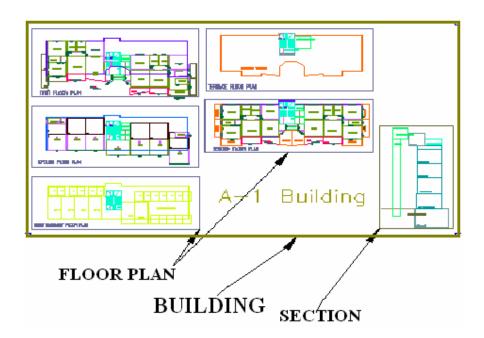
Building names can be.

1	"A(Monarch)"	PWork "A" has building plan
		"Monarch".

2	"A,B(Monarch)" or "A&B(Monarch)"	Wings A, B have same building
		plan "Monarch".
3	"A-C(Monarch)"	Wings A,B,C have same
		building plan "Monarch".
4	"A1-A3(Monarch)"	Wings A1,A2,A3 have same
		building plan "Monarch".

Shortcut Command: BLD

How to draw:



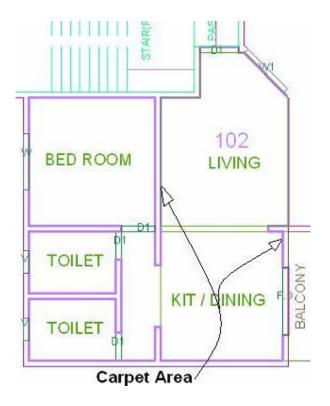
_Carpet area

Description:

Draw carpet area as a closed polyline which is a net usable floor area within a building excluding that covered by the walls or any other areas specifically exempted from floor space index computation in these regulations.

Shortcut command: CPT

How to draw: -

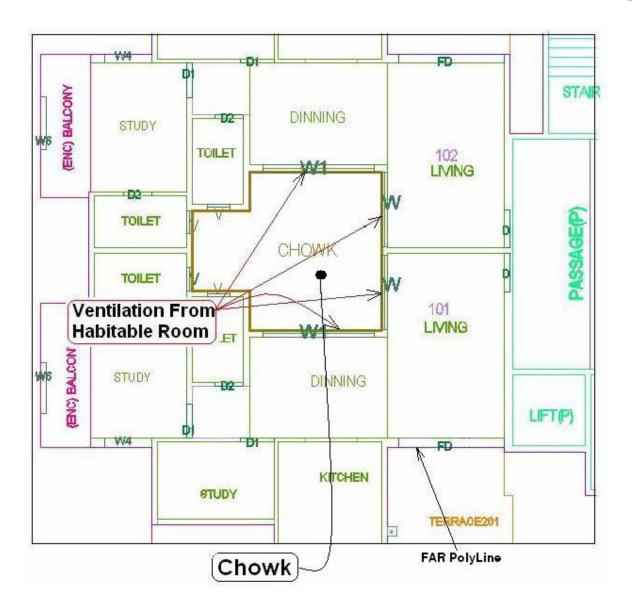


_Chowk

Description:

Draw a chowk as a closed polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms.

Shortcut Command: CWK



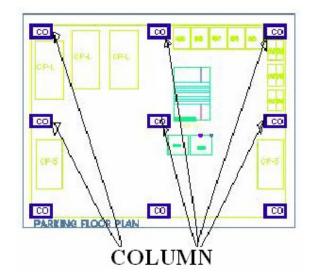
_Column

Description:

-Column shall be drawn as closed polyline on this layer.

Shortcut Command: CPL

How to Draw:-

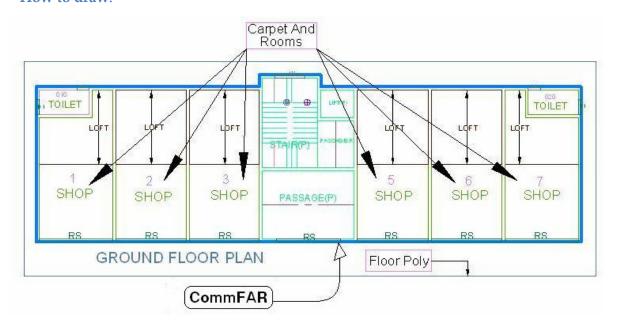


_CommFAR

Description:

Draw a CommFAR as a closed polyline which is the area covered by a building on all the floors. This FAR polyline mainly used for commercial use bldg.

Shortcut Command: CMFS



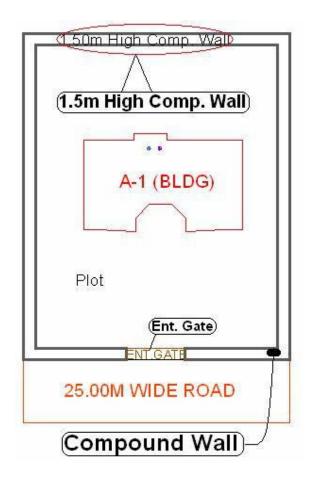
_Compound Wall

Description:

Open polyline of compound wall to be drawn on proposed compound wall with text started with compound wall height. E.g. 1.50m. High Compound Wall

Shortcut Command: CW

How to draw: -



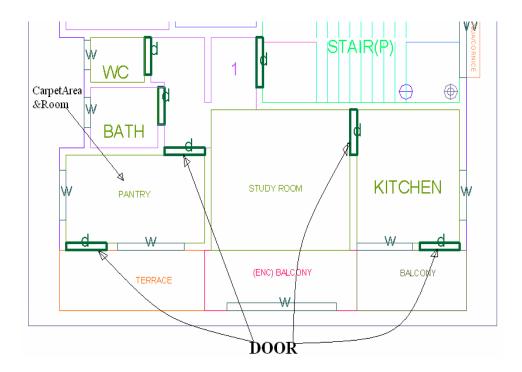
_Door

Description:

Door is a closed Polyline which is drawn on "_Door" layer. Also you can insert a particular size poly for Door using **Insert->Door** from PreDCR menu.

Shortcut Command: DR

How to draw: -



Electric Line

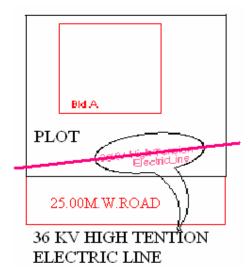
Description: -

Electric line will be present in the layout plan and shall pass through plot entity as a non closed polyline.

Name electric line shall start with its voltage capacity and text insertion point shall lie on its polyline.

For e.g. 33 KV High Tension Line

Shortcut Command: LI



Elevation

Description: -

Elevation to be drawn in _Elevation layer only for printing purpose. No regulations will bye checked by reading this layer. The drawing on this layer need not be drawn using polylines

Shoutcut:-

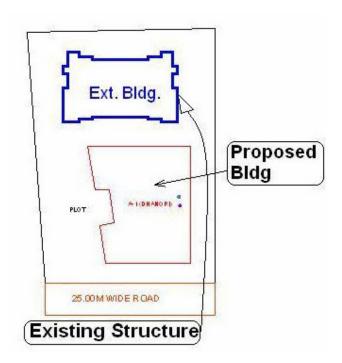


ExStructure:-

Description: - Draw an Exstructure as a closed polyline which is a building or structure existing authorized before the commencement of these regulation. And mark it using Mark -> Existing **structure** as 'To be demolished' or 'to be retained'.

Shortcut Command: EX

How to draw:-



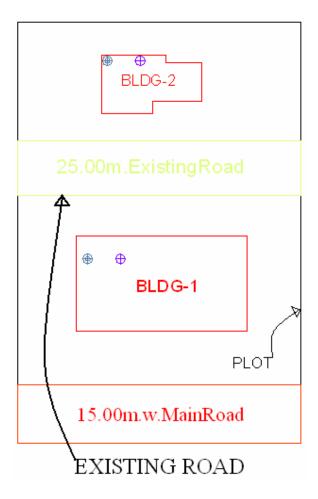
_ExistingRoad

Description:

Draw existing public road or road mentioned in master plan inside plot on _Existing Road layer. While giving name start text with road -width.E.g. 15m wide Existing Road.

Shortcut Command: R3

How to draw: -



_Floor

Discription:

Draw a Floor as a closed polyline to the boundary of the lower surface in a story on which one normally walk in a building and including mezzanine floor also. The floor at ground level with a direct access to a street or open space shall be called the ground floor, the floor above it shall be termed as Floor 1 with the next higher floor being termed as Floor 2 and so on upward. For giving the name of each floor use the assign named option from the PreDCR menu. Also draw each floor separately. While giving name to the typical floor then use a Typical option from **Assigned name -> Floor name** option from PreDCR menu bar.

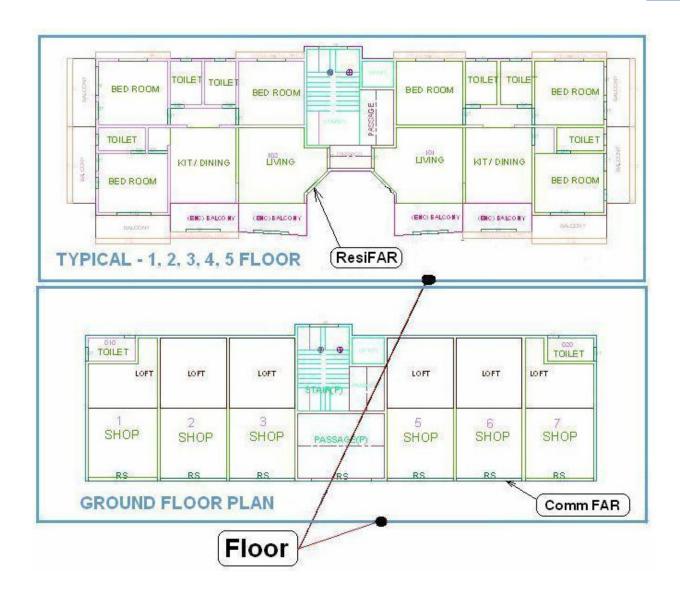
Shortcut Command: FLR

Reference Circle: - All Floor poly must contain a circle with its center on common point for whole building on layer "_ResiFAR". Usually it can be placed inside either Common Liftwell or stair/Inner Chowk as their locations are common for all floors.

Floor Name: - Floor name will be taken from text inside floor poly and on same layer.

A floor plan is automatically associated/linked by AutoDCR software with one or more floor section poly in Section plan. This is done by matching name of Floor Plan and FloorInSection so both must be same.

Typical Floor	Non-Typical
"TYPICAL" X "FLOOR PLAN"X: Floor numbers	X "FLOOR PLAN"
in specific format (, or & or -)	V D' (FI I V
	X: Direct Floor's Name
e.g.:	e.g.
TYPICAL 1,2 FLOOR PLAN	GROUND FLOOR PLAN
TYPICAL 1-4 FLOOR PLAN	FIRST FLOOR PLAN
TYPICAL 2&3 FLOOR PLAN	SECOND FLOOR PLAN



FloorInSection:

Description:

Draw a FloorInSection polyline as a closed poly of section boundary which contain all floors with stair cabin, Liftwell machine room, water tanks etc. as shown in the figure. Also write the name as "Section" in this section poly.

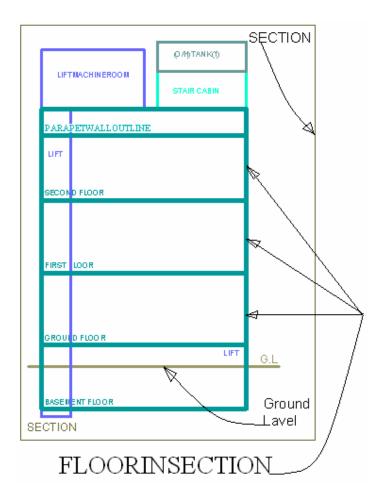
In this closed poly of section draw sections of all floors with stair cabin, inner Chowk, Liftwell machine room, Ventilation shaft, water tanks etc. as shown in the figure.

Also write the name as "Section" in this section poly.

This section poly will present inside the building poly.

Shortcut Command: SEC

How to draw: -

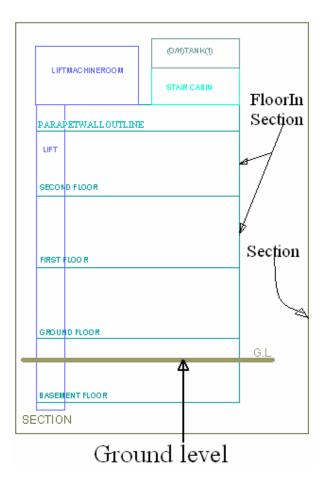


_Ground Level

Description:

Draw the Ground level line as open polyline in section .It is used for checking a total building height from this line.

Shortcut Command: GL

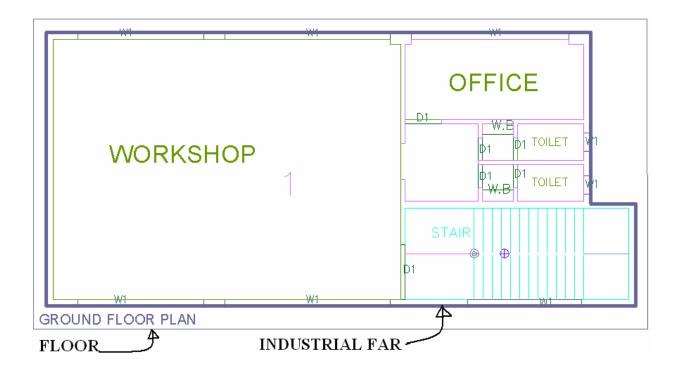


_IndFAR

Description:

Draw a IndFAR as a closed polyline (area key plan line in the submission drg) which is the area covered by all the floors. Industrial building means building or part thereof wherein products or material are fabricated, assembled or processed such as assembly plants, laboratories, power plans, refineries, gas plants, mills, dairies and factories. This polyline should be excluding balcony & terraces area.

Shortcut Command: IFAR

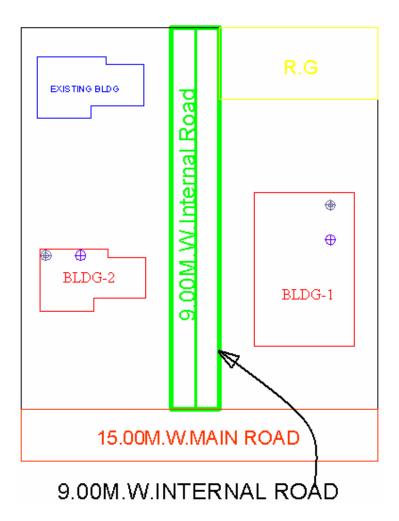


_Internal Road

Description:

Draw internal road with text specifying its width as shown in figure. And draw a center line. And type of layer of the center line must be center line (Type of the Layer).

Shortcut Command: R2

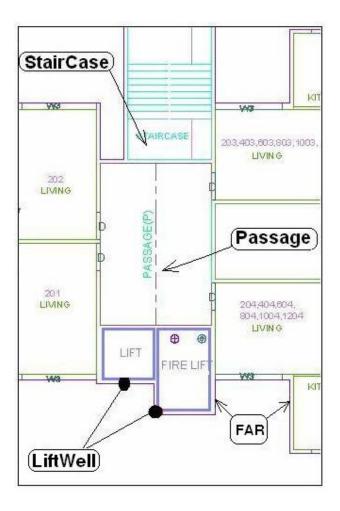


_Lift well

Description:

Draw a Liftwell as a closed polyline which is a mechanically guided car, platform or transport for persons and materials between two or more levels in a vertical or substantially vertical direction. If fire Liftwell is provided then use the marking of "Fire Liftwell" option from Mark -> Liftwell -> Fire Liftwell. Fire Liftwell means a special Liftwell designed for the use of fire service personnel in the event of fire or other emergency.

Shortcut Command: LFT



Location Plan

Description:

Locations plan if any to be drawn on this layer. This is only for reference. No verifications are done by AutoDCR for this layer so not compulsory.

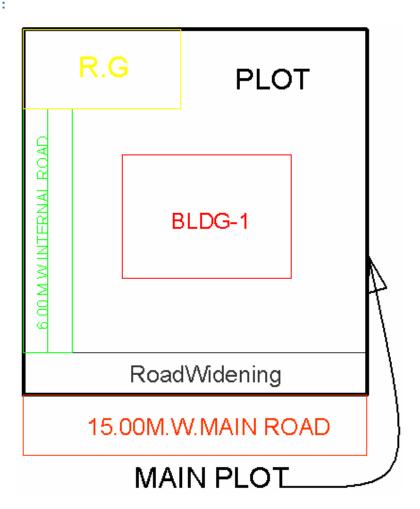
Shortcut Command: LCP

_Main Plot

Description:

Draw a Plot poly as a closed polyline which is a parcel or piece of land enclosed by definite boundaries. A Plot will contain all Proposed Works (buildings, wings), open space, Internal Roads, Parking etc. The overall Plot Entity represent a Plan, AutoDCR refers it as 'Layout Plan'. The overall Plot Entity represent a Plan, AutoDCR refer it as "Layout Plan".

Shortcut Command: PLT

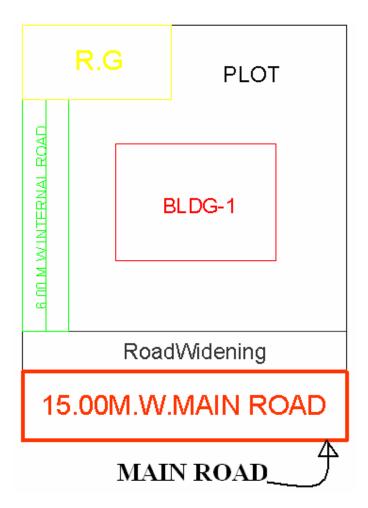


_ Main Road

Description:

Draw a Main Road as a closed polyline which is abutting the plot. On the site that road is any type of road. Such as any highway, street, lane, etc. over which the public have a right of passage or access or have passed and had access uninterruptedly for a specified period, whether existing or proposed in any scheme. Road name start with its width only.

Shortcut Command: R1



_Margin Line

Description:

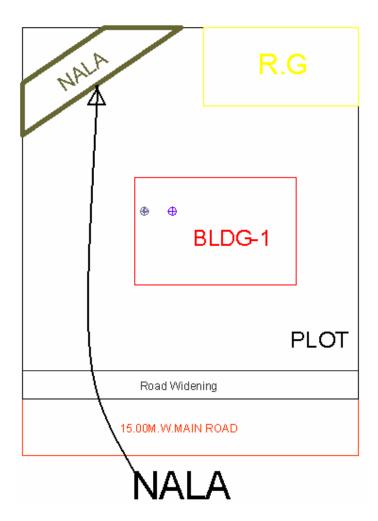
No need to draw Margin Line, Just use Mark Margin tool for it. This layer is not provided for users. AutoDCR uses '_Margin Line' layer for it's own internal use.

Nala

Description:

Draw Nala polygon on this layer.

Shortcut Command: R4



_NETPLOT

Description:

No need to draw NETPLOT. This layer is not provided for users. AutoDCR uses '_NETPLOT' layer for its own internal use.0

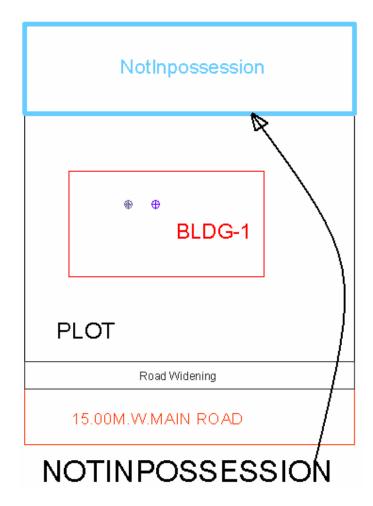
NotInPossission:

Description:

Plot area which is not in possession or which is not in proposal to be drawn as a closed polyline on this layer.

Shortcut Command: NIP

How to draw: -



_Parking

Description:

Draw a parking poly as a closed polyline which is an enclosed covered or open area sufficient in size to park vehicles. This closed polyline shall contain a text on same _Parking layer. This text is treated as name of parking. Insert the parking by using a **Insert-> Parking** option.

Shortcut Command: PK

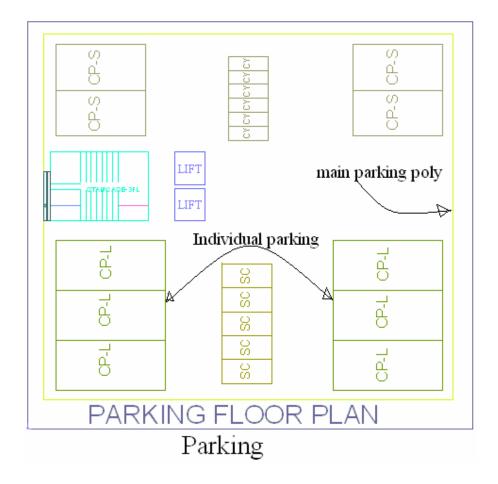
Parking Name:

This closed polyline shall contain a text on same _Parking layer. This text is treated as name of parking.

On this layer, you can group and insert any number of parking

Parking		Name
Car	(2.75 X 5.0)	СР
Scooter	(1.50 X 0.84)	SC
Cycle	(1.50 X 0.70)	СҮ

How to draw: -



_Passage

Description:

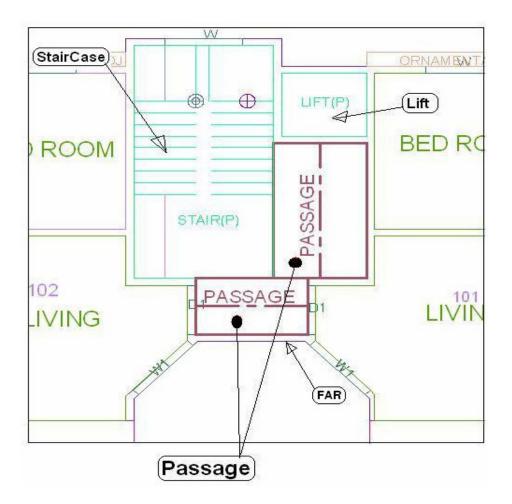
A closed polyline on _Passage represents a passage. It is a common passage or circulation space including a common entrance hall. This closed polyline contain a text. This text must be on "_Passage" layer. This text is treated as name of closed polyline.

Centre Line:

- All Passage poly must contain an Open Polyline inside that closed poly representing centre line on
- "_Passage" Layer. But line type of center line must be 'Center line'.

Shortcut Command: PAS

How to draw:-



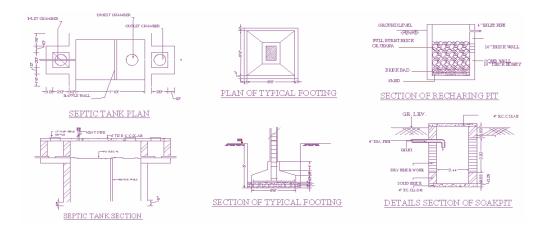
_ PrintAdditionalDetail:-

Description:-

PrintAdditionalDetail layer----Apart from the layers specified by PreDCR, any other information which user wants to display in final approval print shall be drawn on _PrintAdditionalDetail layer.

Shortcut Command:-

How to draw:-

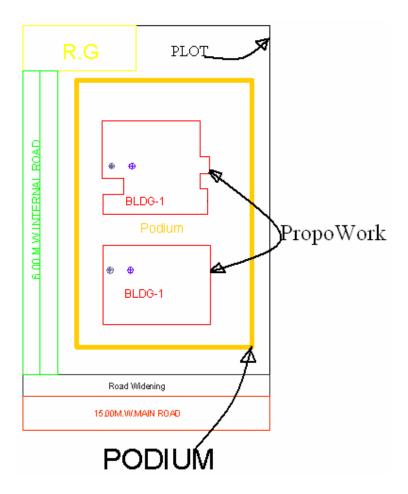


_Podium

Description:

Podium shall be drawn on '_Podium' layer as a closed polyline. Podium should be inside plot covering proposed works if any.

Shortcut Command: -POD



_PropWork

Description:

Proposed Work is a building profile/outline and shall be drawn inside plot. All detail Building plans (inside building polyline) of all PWork (inside plot polyline) is associated/linked automatically by Auto-DCR by matching its name.

So for proper association it is required to follow specific standard as given.

XY(Z)

X is Wing name.

Y is wing number.

Z is Building name.

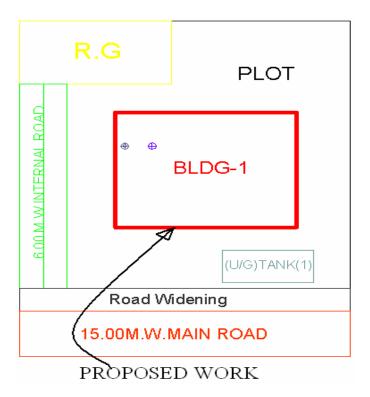
For example if there are four wings A1,A2 & B1,B2 in building named "Monarch" then proposed work names shall be -

A1 (Monarch), A2 (Monarch)

B1 (Monarch), B2 (Monarch)

Reference Circle: All PWork poly must contain two circles (of any size) with its center on common point for whole building. First on layer of any FAR and second on Layer "_Floor". These reference circles to be inserted from **PreDCR** -> **insert-->Direction ref circles** at the same location in all the floors as well as pwork in plot. Usually they can be placed inside either Common Liftwell or Stair/Inner Chowk (because generally their location is same on all floors). Reference circles are used by the software for overlapping all floor plans.

Shortcut Command:- PW



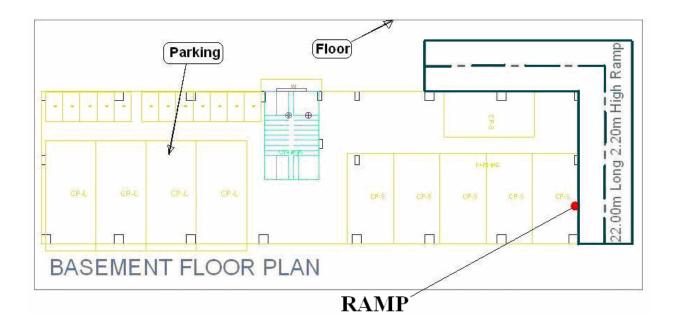
_Ramp

Description:

Draw a Ramp poly as a closed polyline in floor plans and/or plot and section. Naming convention for ramp is "---m. long and ---m. high ramp-1". Give unique name to each ramp.

Shortcut Command:-RP

How to draw: -

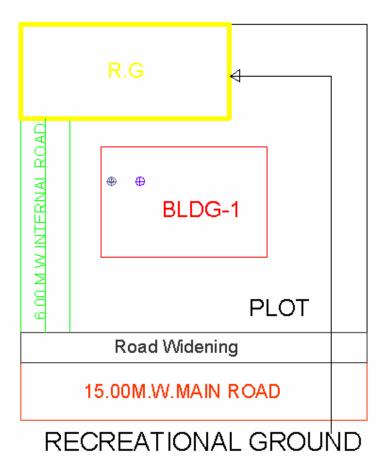


_Recreational Ground

Description:

Draw Recreational Ground as closed polyline reserved as recreational space on this layer. With text on same layer.

Shortcut Command: -OPS

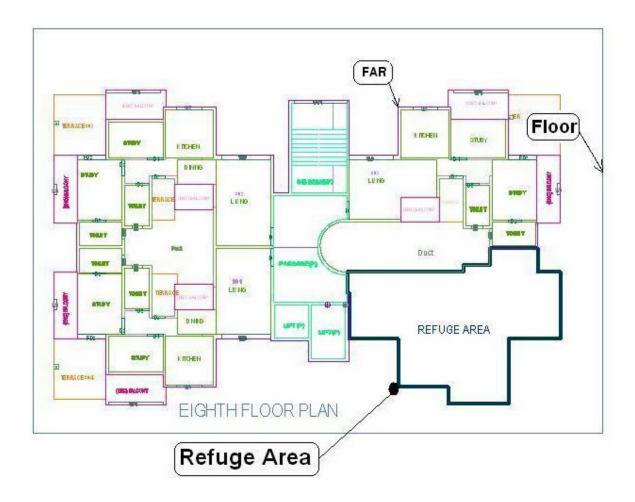


_Refuge Area

Description:

Refuse area to be drawn in plan as a closed polyline with text on this layer. Overlapped with FAR layer but outside the FAR poly.

Shortcut Command: RFG

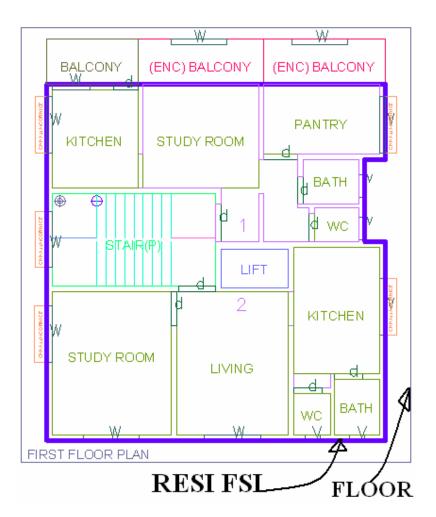


_ResiFAR

Description: -

Draw a ResiFAR as a closed polyline which is the area covered by a building on all the floors. This FAR polyline only used for residential use building or floor. ResiFAR poly must be inside Floor poly.

Shortcut Command: MFS

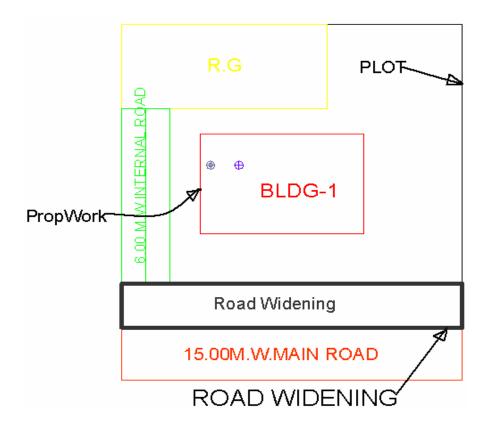


_Road Widening

Description:

Draw a road widening polyline as a closed polyline which the plot area is going to the road, that area should be drawn on this layer. It should be inside the plot polyline.

Shortcut Command: R5

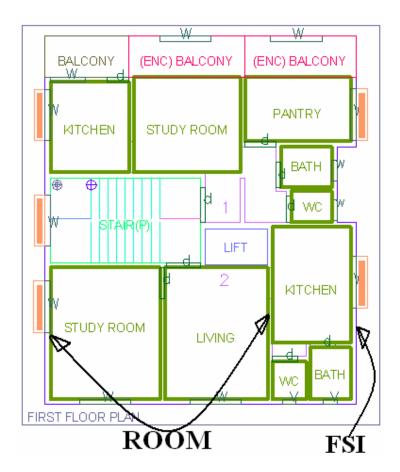


_Room

Description:

A closed polyline on _Room layer represents a room. This closed polyline contain a text. This text must be on _Room layer. Room to be marked by assigning them names using Assign Name-> room option from PreDCR menu.

Shortcut Command: RU

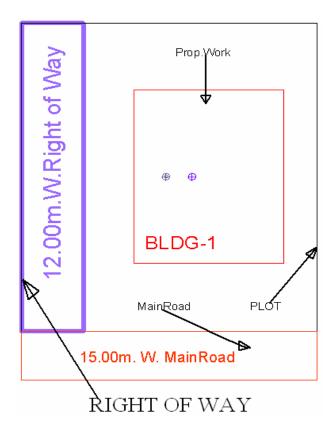


_Right-of-Way

Description:

Draw a closed polyline on "_RightOfWay" to represent a Right Of way and text inside it representing its width. Layer should be inside or intersecting with Plot poly

Shortcut Command: ROW



_Sanitation

Description:

Draw any sanitation entities on this layer. (E.g., Kitchen sink etc...) Mark those entities by using **PreDCR** -> **Insert** -> **Sanitation**.

Shortcut Command: SND

How To Draw:-



_Section

Description:

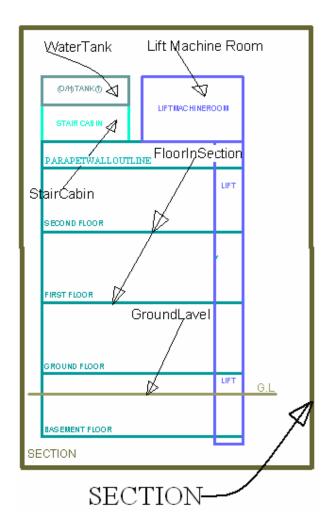
Draw a Section polyline as a closed poly of section boundary which contain all floors with stair cabin, Liftwell machine room, water tanks etc. as shown in the figure. Also write the name as "Section" in this section poly.

In this closed poly of section draw sections of all floors with stair cabin, inner Chowk, Liftwell machine room, Ventilation shaft, water tanks etc. as shown in the figure.

Also write the name as "Section" in this section poly.

This section poly will present inside the building poly.

Shortcut Command: SEC

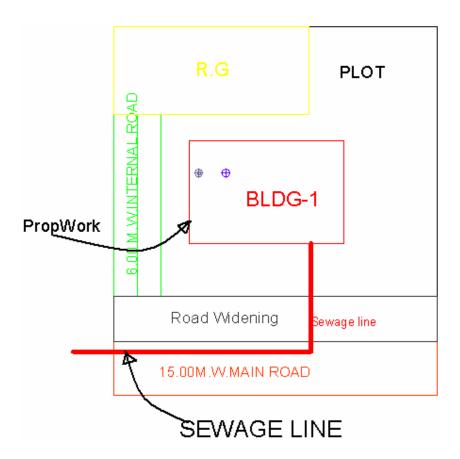


_Sewage Line

Description: -

Drain Line shall be drawn as a open polyline on this layer.

Shortcut Command: L5



_Site Plan

Description: -

Site plan if any to be drawn on this layer. This is only for reference. No verifications are done by AutoDCR for this layer. So not compulsory.

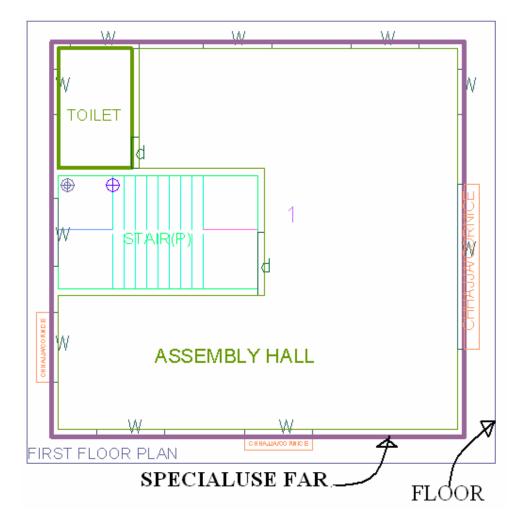
Shortcut Command: STP

_SpecialUseFAR

Description:

FAR ploy for all other building uses like educational, institutional etc. except ResiFAR, CommFAR & IndFAR use should be drawn on this layer.

Shortcut Command: SUF



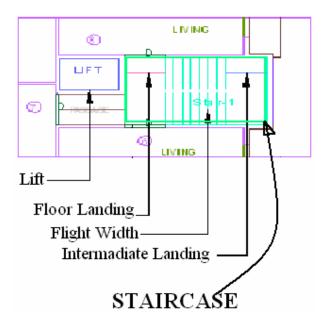
_Staircase

Description:

Staircase: On this layer, Each Staircase poly shall have three lines for Flight Width, Intermediate Landing and Floor Landing on same layer. Mark these open polyline by using Mark-> Staircase option from PreDCR menu. Also draw in plan all the treads on this layer which is a open polyline.

This closed polyline contains a text. This text must be on _Stair layer. This text is treated as name of closed polyline. On this layer, Each Staircase poly shall have three lines for Flight Width, Intermediate Landing and Floor Landing on same layer This can be mark by tool Mark > Staircase > intermediate landing etc.

Shortcut Command: STR



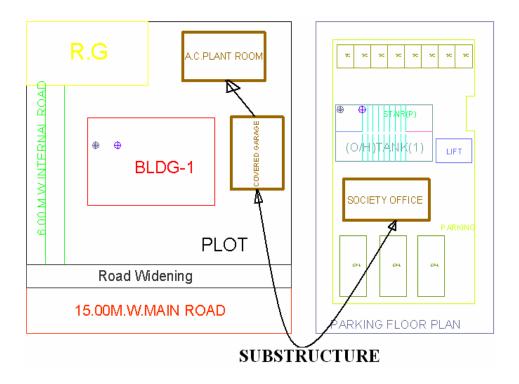
_Substructure

Description:

Draw various substructures on "_Substructure" layer as a closed polyline. And mark it according to the requirement as Mark -> Substructure -> Society Office, from PreDCR menu. Sub-structures can be drawn inside plot or in floor plans.

Shortcut Command: SSTR

How to draw:



Tank

Description:

A closed polyline on _Tank layer represents a water tank. Under Ground tank can be drawn in Floor or Layout plan. If it is drawn in Floor plan then it should be at bottom of GROUND FLOOR. Overhead

tank can be drawn in TERRACE FLOOR. Tank should be drawn as per internal size or dimensions. Both the tank also draw in section also.

Tank Name: - This closed polyline contain a text and must be in given format. This can also be done by tool Assign Name>Tank

Tank Name+ Type +Capacity

Tank Type	Text
Overhead water tank	(O/H)
Underground water	(U/G)
tank	

For e.g.

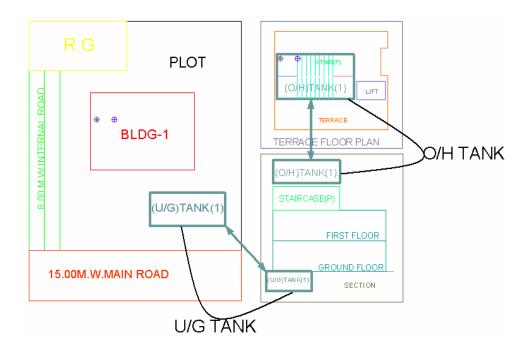
TANK-1 (O/H)

TANK-2 (U/G)

Under Ground tank can be drawn in Floor or Layout plan. If it is drawn in Floor plan then it should be at bottom of GROUND FLOOR.

Overhead tank can be drawn in TERRACE FLOOR. Usually it is drawn on Staircase poly in TERRACE FLOOR.

Shortcut Command: TNK



_Terrace

Description:-

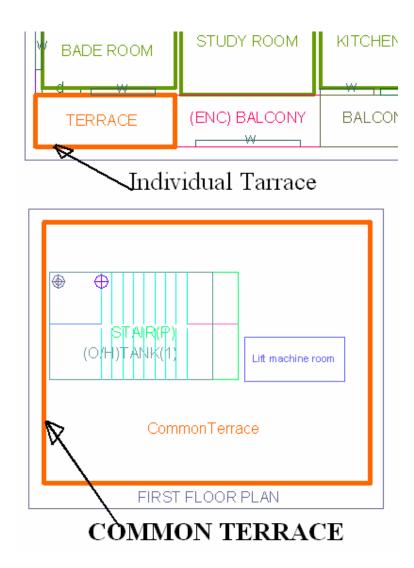
Draw a Terrace as a closed polyline on _Terrace layer which is including parapet wall.

Terrace can be present in:

Plot: It must overlap with PWork

Floor: It must be outside the ResiFAR.

Shortcut Command: TER



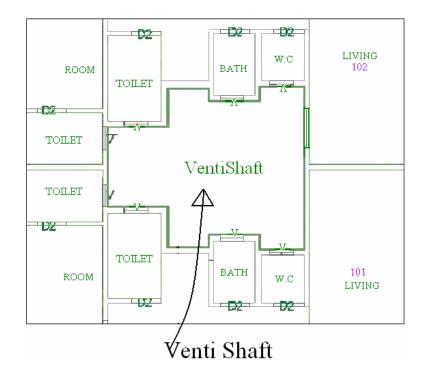
_Ventilation Shaft

Description:

Draw Ventilation shaft/duct area as a closed Polyline with Text. Inside FAR Area on _VentiShaft Layer. Only those shafts from which ventilation for habitable room is not taken should be drawn on this layer.

Shortcut Command:-AVS

How to draw: -

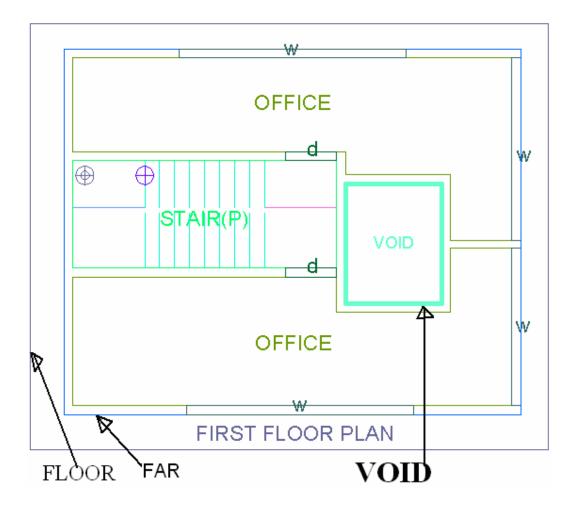


_Void

Description:

If the space is not Chowk then it can be void. All ducts (where ventilation is not taken) and double height rooms can be drawn in void layer.

Shortcut Command: VD

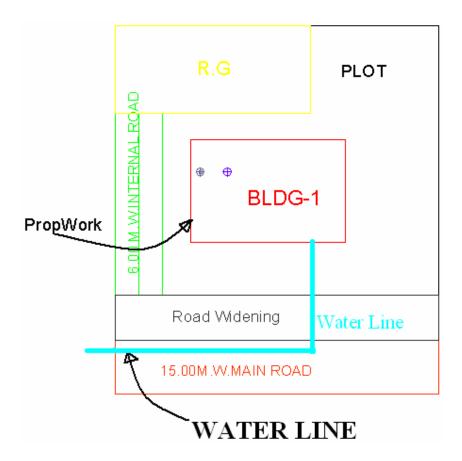


_WaterLine

Description:

Draw a Water line as a open polyline to show Water supply.

Shortcut Command: WL

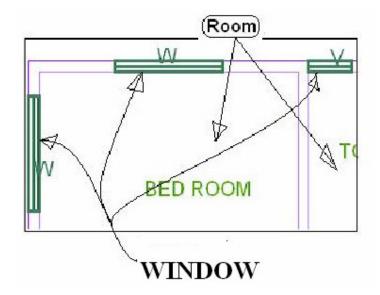


_Window

Description:

Window is a closed Polyline which is drawn on "_Window" layer. Also you can insert a particular size poly for Window using **Insert->Window** from PreDCR menu.

Shortcut Command: WND



All/Remover Tool Tip (PDCRTOOLTIP):

This command will activate the tool tips for PreDCR layers.

Show Only DCR Layers:

All PreDCR layers (PDCRSPL):

This command will turn off all the layers in the drawing except PreDCR layers.

Building level layer (PDCRSBL):

This command will turn on all the building plan level layers in the drawing.

Layout level layer (PDCRSLL):

This command will turn on all the Layout plan level layers in the drawing.

Show Only DCR Layers (PDCRSDL):

This command will turn off all the layers in the drawing except DCR layers.

Show Other Layers (PDCRSOL):

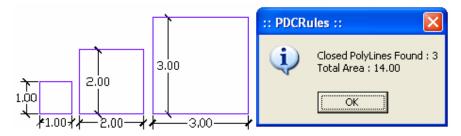
This command will turn off all the DCR and PreDCR layers in the drawing.

Show All layers (PDCRSAL);

This command will turn on all layers in the drawing.

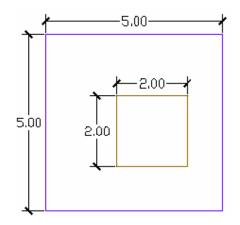
Calculate Total Area (PDCRCTA):

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 PreDCR layers.

Find Closed Entities (PDCRFNDC):

Highlight closed entities on PreDCR 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.

Set Default ACAD Version (PDCRSDA

Commands

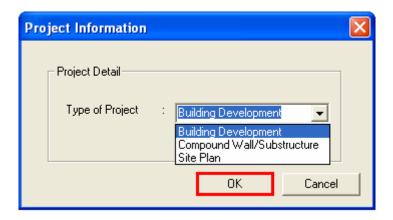
Create New Project (PDCRNWP)

This command will Create New project for current drawing.

Here you have to select Type of Project as

Proposed Building Development.

Note: It is always compulsory to add your drawing to new Project.



Create AutoDCR Layers (PDCRCL):

This command will create layers required for AutoDCR and as per the Project Type you have selected.

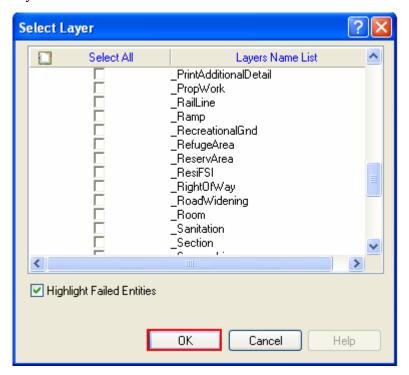
Fix Poly (PDCRPE):

Use this command once on the final drawing which will process all the polyline on the PreDCR layer and remove extra vertices found on polyline. This command can be used before verifying the drawing using Verify commands.

Verify Drawing:

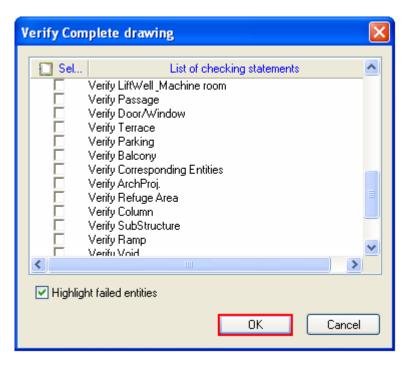
This command will verify the current drawing as required by DCR specifications.

a) Verify Close Entities (PDCRVD): Verify that LWPOLYLINE entities on the selected layers are closed and contain one text.



B) Verify all drawing (PDCRVT): Use this command to verify the layout and building level objects in the current drawing plan.

Major checks are as follows:



In the "Verify All Drawing Dialog" you can select the layout or building objects to be checked. Then to view the result press OK button. PreDCR will start checking all corresponding objects in the currently open drawing and then display the status as OK or list of failed objects in the dialog as shown in Figure. Failed Object Information.

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.

c) 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".

Markings

Marking adds some extra meaning in entity. Following commands are provided to mark

different entities as per requirement.

Mark-> Stair Case-> No of flight -> 3flight or 4flight (PDCRSCFAB): Mark line inside staircase as a no of flight 3flight 4flight

Mark-> Stair Case-> Staircase {Default} (PDCRSCFAB): Mark line inside staircase as a Staircase {Default}

Mark-> Stair Case->**Fire Escape Staircase** (PDCRSCFAB): Mark line inside staircase as a fire escape staircase

Mark-> Stair Case-> **Fab** /**Spiral Staircase** (PDCRSCFAB): Mark line inside staircase as a Fabricated or spiral staircase.

Mark->Staircase Landing ->Intermediate Landing (PDCRMIL): Mark line inside staircase as intermediate Landing.

Mark->Stair Case Landing->**Flight Width** (PDCRMFW): Mark line inside staircase as Flight Width.

Mark->Stair Case Landing->**Floor Landing** (PDCRMFL): Mark line inside staircase as Floor Landing.

Mark->Escalators (PDCRMFL): Mark ->Escalators as a provided

- 2) Mark-> Lift- -> Lift {Default} (PDCRSCES):- mark-> Lift-> as a lift {Default} Mark-> Lift- -> Hydraulic (PDCRSCES):- mark-> Lift-> as a Hydraulic Mark-> Lift-> Fire Lift -> (PDCRSCES): mark-> Lift -> as a Fire Lift
- 3) Mark->passage-> open corridor (PDCRPSUP): mark passage as a open corridor Mark->passage-> Unmark (default) (PDCRPSUP): mark passage as a Unmark (default) Mark->FAR-> Existing FAR (PDCRCONES): Mark Residential or Commercial FAR as Existing FAR.

Mark->FAR->Normal (Default) (PDCRUMFAR): Mark Residential or Commercial FAR as Normal FAR.

Mark->Carpet Area->Splitted Tenement (PDCRMSPLTT): Mark Carpet Area as Splitted tenement.

Mark->Carpet Area-> SlumDevopment->sale or rehab (PDCRUMFAR): Mark Carpet Area as a slumdevlopment sale or rehab Normal

Mark->Carpet Area->Normal (default) (PDCRMSPLTT): Mark Carpet Area as Normal (default)

Mark->Room ->A.C. Room or Normal default (PDCRMENCBL): Mark-> Room A.C.room or Normal (default).

Mark->Balcony->Enclosed Balcony (PDCRMENCBL): Mark Balcony as enclosed balcony.

Mark->Balcony->Unmark (Default) (PDCRUMENCBL): Unmark the marked balcony.

Mark->Projection-->

Mark->Projection->F.Bed (PDCRMBPROJ): Mark Projection as Flower Bed

Mark->Projection->Chhajja/Cornice/Whether shade (PDCRMCJPROJ): Mark Projection as Chhajja/Cornice/Whether shade

Mark->Projection->Loft (PDCRMLPROJ): Mark Projection as Loft in floor plan as well as in section.

Mark->Projection->Canopy (PDCRMCBPROJ): Mark Projection as Canopy.

Mark->Projection->Porch (PDCRMCPROJ): Mark Projection as Porch.

Mark->Projection->Verandah (PDCRMVPROJ): Mark Projection as a Verandah.

Mark->Projection-> Otta (PDCRUMPROJ): Mark Projection as a Otta as a provided.

Mark->Projection-> Steps (PDCRUMPROJ): Mark Projection as a Steps as a provided.

Mark->Projection-> Normal (Default) (PDCRUMPROJ): Mark Projection as a Normal (default) Architectural projection.

Mark->Road widening Taken in FAR or Unmark (default) (PDCRMRVIFAR): Mark-> Road widening as a Taken in FAR or Unmark (default)

Mark->Upper Setback-> First upper setback (PDCRUMMR): Mark ->Upper setback as a first upper setback

Mark->Upper Setback-> Second upper setback (PDCRUMMR): Mark ->Upper setback as a Second upper setback

Pool

Mark->Existing Structure ->To Be Retained ->Building or Substructure (PDCRMREXWD):

Mark Existing structure as to be Retained Building or Substructure.

Mark->Existing Structure-> to be demolish (Default) (PDCRMRMREXWC): Mark Existing structure as to be Demolish.

Mark->Substructure-> Electric Meter Room (PDCRMER): Mark Substructure as an Electric meter room.

Mark->Substructure->Electric Sub-Station (PDCRMTRAN): Mark Sub Structure as an electric Sum-Station.

Mark->Substructure->Watchman Cabin (PDCRMTRAN): Mark Sub Structure as an watchman cabin

Mark->Substructure->Society Office (PDCRMOR): Mark Sub Structure as a Society office.

Mark->Substructure->Servant Quarter (PDCRMSQ): Mark Sub Structure as a servant quarter.

Mark->Substructure->Sanitary Block (PDCRMSB): Mark Sub Structure as a sanitary block.

Mark->Substructure -> Covered Garage (PDCRMGRJ): Mark Sub Structure as a covered garage when garage is covered.

Mark->Substructure -> Open Garage (PDCRMGRJ): Mark Sub Structure as a Open garage Mark->Substructure -> Rain Water harvesting (PDCRMGRJ): Mark Sub Structure as a Rain Water harvesting.

Mark->Substructure -> A.C Plant Room (PDCRMGRJ): Mark Sub Structure as a A.C Plant Room

Mark->Substructure -> AHU (PDCRMGRJ): Mark Sub Structure as a AHU

Mark->Substructure -> Swimming Pool (PDCRMGRJ): Mark Sub Structure as a Swimming

Mark->Substructure -> Septic Tank/Soak pit (PDCRMGRJ): Mark Sub Structure as a Septic Tank/Soak pit

Mark->Substructure ->Pump House (PDCRMPR): Mark Sub Structure as a Pump House.

Mark->Substructure ->Effluent Treatment Plant/ STP (PDCRMETP): Mark Sub Structure as a Effluent Treatment Plant /STP

Mark->Substructure ->Dish Antenna room (PDCRMSPT): Mark Sub Structure as a Dish Antenna room

Mark->Substructure -> Well (PDCRMSPT): Mark Sub Structure as a Will

Mark->Substructure ->Telephone Installation room (PDCRMSPT): Mark Sub Structure as a Telephone Installation room

Mark->Substructure -> Entrance gate (PDCRMSPT): Mark Sub Structure as a Entrance gate
Mark->Substructure -> Fitness center (PDCRMSPT): Mark Sub Structure as a Fitness center
Mark->Substructure -> Suction Tank (PDCRMSPT): Mark Sub Structure as a Suction tank
Mark->Substructure -> Pavillian (PDCRMSPT): Mark Sub Structure as a Pavillan
Mark->Substructure -> Gymnasium (PDCRMSPT): Mark Sub Structure as a Gymnasium
Mark->Substructure -> Club-House (PDCRMSPT): Mark Sub Structure as a Club-House
Mark->Substructure -> Dust bin (PDCRMSPT): Mark Sub Structure as a Dust bin
Mark->Substructure -> Milk/ Telephone booth-> (PDCRMSPT): Mark Sub Structure as a

Mark->Substructure -> Letter Box (PDCRMSPT): Mark Sub Structure as a Letter Box.

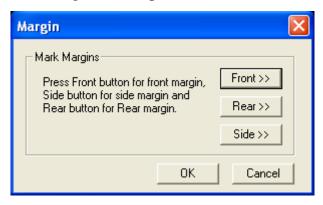
Mark->Substructure -> Chimney (PDCRMSPT): Mark Sub Structure as a Letter Box.

Mark->Special use FAR ->

Milk/ Telephone booth.

- Education.
- Institutional
- Assembly
- Public/Semi-Public
- Recreational
- Transport

Mark->Margin (PDCRMRGN): Use this command to define or mark the front, sides and rear margins of the plot. .



Insert entities

Insert->Parking-> Car (2.75x5.0) ((PDCRICP) -> Use this command to insert car-parking poly of. at selected point.

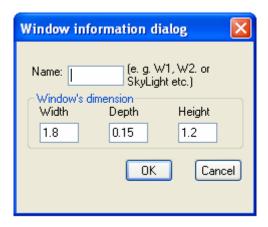
Insert-> Parking-> Scooter (1.50 X 0.84) (PDCRISP) -> Use this command to insert Scooter parking poly at selected point.

Insert-> Parking-> Cycle (1.50 X 0.70) (PDCRICY) ->Use this command to insert Cycle parking poly at selected point.

Insert->Door (PDCRIDRNAM): Use this command to insert door poly at selected point and with specified size given by user. As soon as you use this command the following Dialog appears.



8. Insert->Window (PDCRIWNDNAM): Use this command to insert window poly at selected point and with specified size given by user.



- **9. Insert-> Sanitation Text (PDCRIWC):** Use this command to insert sanitation text at selected point. Ex. , Urinal, Wash basin Drinking water, washing tap, etc........ which is mark on then insert text by using sanitation text marking from insert menu.
- **10**. **Insert->Direction Reference Circle (PDCRIWC):** Use this command to insert direction reference circle. Insert these circles in all the floor plans as well as in proposed work at the same & common place (e.g. Liftwell or Stair) of all the floors.
- Insert → Tree (PDCRINTR): Use this command to insert Tree. Insert Trees showing location of Trees in your plot.
- 11. **Insert->North Direction** (PDCRINND): Use this command to insert North Direction. Insert North Direction indicating the sides of your plot. You have to rotate this as per North Side.

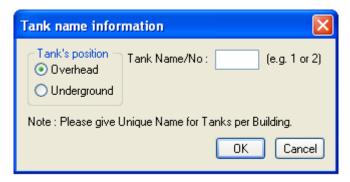
Assign Name

There are few naming conventions required by AutoDCR, for which PreDCR provides the following tools:

Assign Name->Building and proposed works (PDCRBLDPWNL): Use this command to give name for building poly and its associated proposed works.



Assign Name->Tank (PDCRTNKNAM): Use this command to give name for Tank poly and its corresponding tanks.

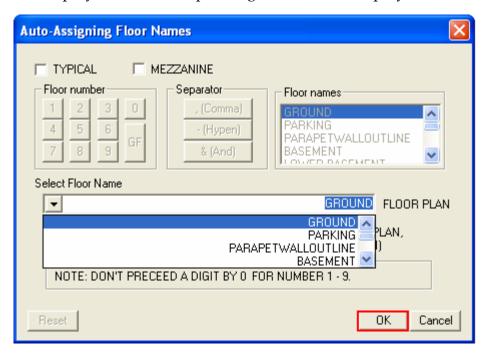


Fill in the dialog and select the tank poly drawn in plan and the same drawn in section

Assign Name->Room (PDCRASRUN): Use this command to give different names for Room poly.



Assign Name->Floor Name (PDCRASFLRNAM): Use this command for assigning name to a floor poly and it's corresponding floor in section poly in section.



PreDCR help manual: Ujjain Municipal Corporation

Tools

All/Remover Tool Tip (PDCRTOOLTIP):

This command will activate the tool tips for PreDCR layers.

Show Only DCR Layers:

All PreDCR layers (PDCRSPL):

This command will turn off all the layers in the drawing except PreDCR layers.

Building level layer (PDCRSBL):

This command will turn on all the building plan level layers in the drawing.

Layout level layer (PDCRSLL): This command will turn on all the Layout plan level layers in the drawing.

Show Only DCR Layers (PDCRSDL):

This command will turn off all the layers in the drawing except DCR layers.

Show Other Layers (PDCRSOL):

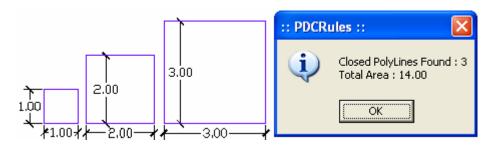
This command will turn off all the DCR and PreDCR layers in the drawing.

Show all layers (PDCRSAL);

this command will turn on all layers in the drawing.

Calculate Total Area (PDCRCTA):

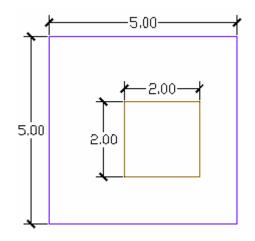
This command will compute the total area of all selected closed polygons.



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 PreDCR layers.

Find Closed Entities (PDCRFNDC): Highlight closed entities on PreDCR layer.

Shortest distance (PDCRFSD): This command will find the shortest distance between two entities.

Convert ARC into Polyline (PDCRFSD): This command will convert ARC into Polyline.

Spelling check (_spell): This tool is used for spelling checking.

Find Object (PDCRFOBJ): This command zoom & highlight object of a given handle.

Set Default ACAD Version (PDCRSDA):

PREDCR SHORT-CUT COMMANDS

Layer name	Description	Naming Convention	short
			command
_Amenity	Draw Amenity space as a closed		AMN
	polyline which is reserve for		
	utilities, services and		
	conveniences.		
_ArchProj	This layer is used to represent		AP
	various Architectural	Mark -> Projections -	
	Projections in your Plan. Draw a	> Chajja	
	closed Polyline for Architectural		
	Projections. And mark it using		
	Mark->Projection from PreDCR		
	menu, according to		
	requirements. Canopy/porch		
	will come in plot & other		

	projections will come with floor		
	plans.		
_Balcony	Draw a balcony as a closed		BL
	polyline which is a horizontal	If Balcony is	
	projection including parapet to	Enclosed Than	
	serve as a sitting out place.	Mark -> Balcony ->	
	Name of balcony must be inside	Enclosed Balcony	
	and on _Balcony layer.		
_Building	Building is used to group all		BLD
	floor plans of the same building.	Naming Convention	
	Draw a closed poly enclosing	will be	
	all the floor plans and section of	provided by	
	the same building on _Building	Tool>Assign Name	
	layer. Note: As written above,	A (Bldg.Name)	
	dimension or area of this	inside Bldg.Poly &	
	building poly has no meaning	A-1 (Bldg.Name)	
	in AutoDCR. This is just an	inside Pwork Poly	
	logical group of all floors of the		
	same building. If the building		
	plans of multiple PWorks or		
	wings are same then building		
	name shall be as given aside.		

_Carpet area		Draw carpet area as a closed	If Carpet area is	CPT
excluding that covered by the walls or any other areas specifically exempted from floor space index computation in these regulations. Chowk Draw a chowk as a closed polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms	_Carpet area	polyline which is a net usable	Splitted – Tenement.	
walls or any other areas specifically exempted from floor space index computation in these regulations. Chowk Draw a chowk as a closed polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms		floor area within a building	Mark-> Carpet area->	
specifically exempted from floor space index computation in these regulations. Chowk Draw a chowk as a closed polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms		excluding that covered by the	normal (default)	
space index computation in these regulations. Chowk Draw a chowk as a closed polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms		walls or any other areas		
these regulations. Chowk Draw a chowk as a closed polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms		specifically exempted from floor		
_Chowk Draw a chowk as a closed polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms		space index computation in		
polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms		these regulations.		
polyline which is an enclosed space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms				
space permanently open to the sky within a building at any level. From chowk we take ventilation for habitual rooms	_Chowk	Draw a chowk as a closed		CWK
sky within a building at any level. From chowk we take ventilation for habitual rooms		polyline which is an enclosed		
level. From chowk we take ventilation for habitual rooms		space permanently open to the		
ventilation for habitual rooms		sky within a building at any		
		level. From chowk we take		
		ventilation for habitual rooms		
_CommFAR	_CommFAR	Draw a CommFAR as a closed		CMFS
polyline which is the area No need to give		polyline which is the area	No need to give	
covered by a building on all the name on this layer.		covered by a building on all the	name on this layer.	
floors. This FAR polyline mainly		floors. This FAR polyline mainly	7	
used for commercial use bldg.		used for commercial use bldg.		
_Compound Wall Closed polyline of compound CW	_Compound Wall	Closed polyline of compound		CW
wall to be drawn on this layer 1.5m high compound		wall to be drawn on this layer	1.5m high compound	
overlapping plot. wall		overlapping plot.	wall	

_Door			DR
	Door is a closed Polyline Which	Insert-> Door	
	is drawn on "_Door" layer. Also		
	you can insert a particular size		
	poly for Door using Insert-		
	>Door from PreDCR menu.		
_Elect line	Electric line will be present in		L1
	the layout plan and shall pass	33 KV High Tension	
	through plot entity as a non	Line	
	closed polyline.		
	Name electric line shall start		
	with its voltage capacity and		
	text insertion point shall lie on		
	its polyline.		
_Elevation	Description:- Elevation to be		EL
	drawn in _Elevation layer only		
	for printing purpose. No		
	regulations will be checked by		
	reading this layer. The drawing		
	on this layer need not be drawn		
	using polylines.		
_Existing road	Description: - Draw a Exis.		R3
	Road as a closed poly line with		
	Text.(e.g. any Exis.road passing		

	from inside of the plot)(Note:		
	Road width must be written at		
	the starting of Text).		
_ExStructure	Draw an Exstructure as a closed		ES
	polyline which is a building or	Mark-> Existing	
	structure existing authorized	Structure-> To be	
	before the commencement of	Demolished OR	
	these regulation. And mark it	To be Retained	
	using Mark -> Existing structure		
	as 'To be demolished' or 'To be		
	retained'.		
_FloorInSection	Description: - Draw a Floor		SECF
	Inspection as a closed polyline		
	which is the height of that floor		
	(slab top to slab top) This poly		
	only used for checking floor		
	height. For assigning the name		
	of FloorInSection then used		
	Assigned name option for		
	PreDCR tool menu.		
	Name of each floor section will		
	be same as of floor in plan.		
	For one typical floor plan		
	multiple floor section will be		
	there.		

	For e.g. for one typical floor		
	plan for 1-3 floors there will		
	three sections shall be drawn		
	with name "First Floor Plan",		
	"Second Floor Plan" and "Third		
	Floor Plan" respectively.		
_Floor	Floor poly should be drawn as a	Naming Convention	FLR
	closed Polyline with Text on	will be	
	same Layer. This is just a logical	provided by	
	Group of all floor Entities.	Tool>Assign	
	Floor Name: Floor Plan	Name>Floor name	
	will be automatically link with		
	Section by matching the Floor	Name of floor	
	Name. Hence all names to be	should be in given	
	given using <assign name=""></assign>	format:	
	function	TYPICAL-1,4	
		FLOOR PLAN	
		TYPICAL-1-5	
		FLOOR PLAN	
		TYPICAL-2&3	
		FLOOR PLAN	
		Ground Floor Plan	
_Ground Level	The Ground level line should be		GL
	drawn as an open polyline in	No need to give	
	the section poly.	name on this layer.	

Prop.Ht. will be considered		
from GroundLvl Polyline		
Draw a closed FAR Polyline,	No need to give	IFAR
which is used as a Industrial	Name on this layer.	
Purpose.		
Draw each Internal Road as a		R2
closed Polyline with Centre Line	7.50 m wd. Internal	
(Ltype-CentreLine) & single text	Road	
inside it.		
Draw a Liftwell as a closed	Naming Convention	LFT
polyline which is a	will be	
mechanically guided car,	provided by	
platform or transport for	Tool <mark>Lift</mark>	
persons and materials between		
two or more levels in a vertical	If Hydraulic Lift	
or substantially vertical	option from Mark -	
direction	>Hydraulic	
Fire Liftwell means a special		
Liftwell designed for the use of	Lift" option from	
fire service personnel in the	Mark -> Lift -> Fire	
event of fire or other emergency.	Lift.	
	from GroundLvl Polyline Draw a closed FAR Polyline, which is used as a Industrial Purpose. Draw each Internal Road as a closed Polyline with Centre Line (Ltype-CentreLine) & single text inside it. Draw a Liftwell as a closed polyline which is a mechanically guided car, platform or transport for persons and materials between two or more levels in a vertical or substantially vertical direction Fire Liftwell means a special Liftwell designed for the use of fire service personnel in the	from GroundLvl Polyline Draw a closed FAR Polyline, which is used as a Industrial Purpose. Draw each Internal Road as a closed Polyline with Centre Line (Ltype-CentreLine) & single text inside it. Draw a Liftwell as a closed polyline which is a will be mechanically guided car, platform or transport for persons and materials between two or more levels in a vertical or substantially vertical direction Fire Liftwell means a special Liftwell designed for the use of fire service personnel in the Mark -> Lift -> Fire

_Location plan	Location plans if any to be	LCP
	drawn on this layer. This is only	
	for reference. No verifications	
	are done by AutoDCR for this	
	layer so not compulsory.	
_Margin line	Margin Polylines will be created	L3
	by PreDCR by using Tool	
	"Mark>Margins"	
	(User need not do anything on	
	this layer.)	
_Main Plot	Description: - Draw a MainPlot	PLT
	poly as a closed polyline which	
	is a parcel or piece of land	
	enclosed by definite boundaries.	
	A MainPlot will contain all	
	Proposed Works (buildings,	
	wings), open space, Internal	
	Roads, Parking etc. The overall	
	MainPlot Entity represent a	
	Plan, AutoDCR refers it as	
	'Layout Plan'. The overall	
	MainPlot Entity represent a	
	Plan, AutoDCR refer it as	

	"Layout Plan".		
_Main Road	Draw Main Road as a closed		R1
	Poly with Text, which should be	24.00 m wd. Main	
	abutting with the Plot closed	Road	
	Poly.		
	(Note: Road width must be		
	written at the starting of Text)		
_Nala	Draw centre Line of Nala as an		R4
	open Polyline on this layer.		
	Name of the poly should		
	contain width of the Nala		
_Net Plot	No need to draw NETPLOT.	No need to give	NPLT
	This layer is not provided for	name on this layer.	
	PreDCR users		
_NotInPossession	Plot area which is not in		NIP
	possession or which is not in		
	proposal to be drawn as a		
	closed polyline on this layer.		
_Parking	Draw a closed Polyline for	Insert-> Parking-	
	Parking on "_Parking" Layer.	>Car-/ Scooter/ Cycle	PK
	You can also use Insert function		
	to insert desired Parking Poly in		
	your drawing.		

_Passage				
passage with Centre Line (Ltype- Centerline) & single text inside it. PrintAdditionalDetail _PrintAdditionalDetail layer apart from the layers specified by PreDCR, any other information which user wants to display in final approval print shall be drawn onthis layer Podium Draw a closed polyline on "_Podium" to represent Podium. It should be shown in	_Passage	Draw a closed polyline on		PAS
(Ltype- Centerline) & single text inside it. PrintAdditionalDetail _PrintAdditionalDetail layer apart from the layers specified by PreDCR, any other information which user wants to display in final approval print shall be drawn onthis layer Podium Draw a closed polyline on "_Podium" to represent Podium. It should be shown in		"_Passage" Layer to represent	Mark > Passage >	
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it. _PrintAdditionalDetail _PrintAdditionalDetail layer apart from the layers specified by PreDCR, any other information which user wants to display in final approval print shall be drawn onthis layer _Podium Draw a closed polyline on		(Ltype-	Mark >	
_PrintAdditionalDetail _PrintAdditionalDetail layer apart from the layers specified by PreDCR, any other information which user wants to display in final approval print shall be drawn onthis layer _Podium Draw a closed polyline on "_Podium" to represent Podium. It should be shown in		Centerline) & single text inside	Unmark(Default)	
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_Podium Draw a closed polyline on POD "_Podium" to represent Podium. It should be shown in		to display in final approval		
_Podium Draw a closed polyline on POD "_Podium" to represent Podium. It should be shown in		print shall be drawn onthis		
"_Podium" to represent Podium. It should be shown in		layer		
Podium. It should be shown in	_Podium	Draw a closed polyline on		POD
		"_Podium" to represent		
the layout and not in floor plans		Podium. It should be shown in		
		the layout and not in floor plans		
_PropWork PWork is a building profile and Tools > Assign Name PW	_PropWork	PWork is a building profile and	Tools > Assign Name	PW
shall be drawn inside plot.		shall be drawn inside plot.	>	
Draw a closed polyline for Building and		Draw a closed polyline for	Building and	
Proposed Work on PropWork.		Proposed Work on	PropWork.	

	"_PropWork" Layer.		
_Ramp			RP
	Draw a Ramp as a closed	10.0m long 1.5m	
	polyline with Centerline (L-	high Ramp	
	type-Centre) & Text inside it in		
	Plan.		
_RecrationalGround	Description: - Draw Open space		OPS
	as closed polyline reserved as		
	recreational space on this layer.		
	With text on same layer.		
_Refuge Area	A closed polyline with Text		RFG
	around the refuge area should		
	be drawn on same Layer.		
	Refuge area should be outside		
	overlapped with FAR (ResiFAR,		
	CommFAR) poly.		
_ResiFAR	Draw a ResiFAR as a closed		MFS
	polyline which is the area	No need to give	
	covered by a building on all the	name on this layer.	
	floors. This FAR polyline only		
	used for residential use bldg or		

	floor.		
_Right-Of-Way	Description: - Draw a closed		ROW
	polyline on "_Right-Of-Way" to		
	represent a Right Of way and		
	text inside it representing its		
	width. Layer should be inside or		
	intersecting with Plot poly.		
_Road Widening	Road Acquisition/Road		R5
	Widening area shall be drawn		
	as a closed Polyline with Text on		
	same layer inside Plot Entity.		
	Margin will be generated &		
	checked from Road widening		
	Poly by AutoDCR software.		
_Room			RU
	A closed polyline for each room		
	with its text inside should be	Assign Name >	
	drawn on this layer. Text should	Room	
	be given using <assign name=""></assign>		
	function		

_Sewage line	Description: - Drain/Sewage	L5
	Line: - Sewage line shall be	
	drawn as an open polyline on	
	this layer.	
_Section	Section poly should be drawn as	SEC
	a closed Polyline with Text on	
	same Layer. It is used to group	
	all Sectional detail like	
	FloorInSection, Plinth, Stair	
	cabin, Tank etc.	
	(This is just a logical Group of	
	Sectional Entity).	
	(Note: Area or size of Floor	
	doesn't have any meaning in	
	AutoDCR)	
_Sanitation	Description: - Draw any	SND
	sanitation entities on this layer.	
	(E.g. Water closets, Kitchen sink	
	etc) Mark that entities by	
	using PreDCR -> Insert ->	
	Sanitation	
_Site Plan	The encapsulating poly around	STP
	the Site/Key Plan with the Text	
	& Scale inside it.	

_Staircase	Total Staircase area should be	Mark->No of flight-	STR
	drawn as a closed polyline with	>3flight or 4 flight	
	text inside it.	Mark-> Stair Case->	
	This Main Stair Poly should	Fire Escape Staircase	
	contain Intermediate Landing,	OR Fab/Spiral Stair	
	Floor Landing & Each Tread as		
	an open polyline.	Mark-> Staircase	
	Intermediate & Floor Landing	Landing-> Flight	
	Poly can be Marked by PreDCR	Width , Intermediate	
	Tool "Mark>Staircase>Int. or	& Floor Landing	
	Floor Landing"		
_SpecialUseFAR	A closed poly represents a other		SUF
	than Residential, commercial or		
	Industrial use FAR or Floor		
	FAR.		
	It will cover whole area which is		
	considered in FAR Area per		
	Floor.		

_Substructure	Substructures which are	Name of the	SSTR
	allowed in Margins or Layout &	Substructure can be	
	Free from FAR should be drawn	assigned from	
	as a closed polyline with text	Mark>Substructure	
	inside it.	tool.	
_Tank	Tank clear size should be drawn	Assign Name>Tank	TNK
	as a closed Polyline with Text on		
	this Layer in Floor Plan or Plot		
	as well as Section with same		
	Text.		
	(Note: It should be in proper		
	Naming convention which is		
	Provide by PreDCR by using		
	Tool.		
_Terrace	Closed polylines around the		TER
	terraces to be drawn on this		
	layer. If the terrace is used		
	commonly by all tenements		
	mark it as Common Terrace else		
	it will be treated as Individual		
	by default.		

_Ventilation Shaft	Description: - Draw Ventilation		AVS
	shaft/duct area as a closed		
	Polyline with Text. Inside FAR		
	Area on _VentiShaft Layer. Only		
	those shafts from which		
	ventilation for habitable room is		
	not taken should be drawn on		
	this layer.		
_Void	If the space is not Chowk then it		VD
	can be void. All ducts (where		
	ventilation is not taken) and double		
	height rooms can be drawn in void		
	layer.		
_WaterLine	Draw a open polyline on		L4
	"_WaterLine" to represent water		
	lines.		
_Window	Draw a closed polyline on	Insert > window	WND
	_Window" Layer to represent		
	window. You can also use Insert		
	tool to insert window poly for		
	particular size.		

Specifications to be followed-

The drawing entities should be drawn on Automatic layers created by using PreDCR.

Plot layout, detailed floor plan and building section for all the floors should be there in one AutoCAD drawing file.

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 Railway Line, Drain line, Water Line,

Electric Line, Dead Wall and Ground level.)

Building Sub-Items must be exactly inside of outer closed polyline 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 PreDCR 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. As far as possible, this name should be unique. 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 Using <Assign Name> function of

PreDCR 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.

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 plan for each proposed work.

Sample cases

Residential Bldg (Row house)



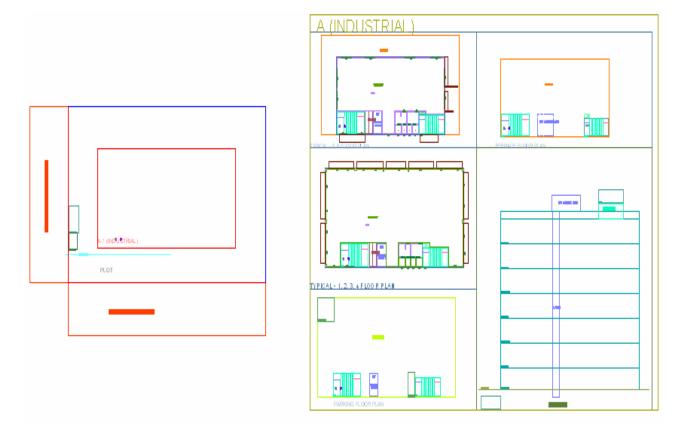
Residential bldg. (Single Detached with two buildings)



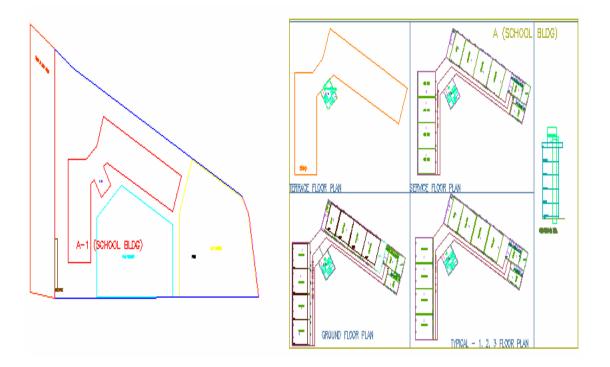
Commercial building



Industrial Building



Special building (School bldg)



Meaning of various PreDCR Messages

"Entity contain more than one text"

It means Entity on this layer contain more than one text. So remove the extra text. PreDCR need only one text for one entity.

"Entity not contain any text"

It means this entity not having any name/text, so give the name to this entity on this layer

"Polyline is not in a proper format"

It means Highlighted polyline not drawn properly. So redraw that polyline & check the properties of that polyline.

"Entity is not closed"

It means the highlighted entities not a closed polyline so close it by using 'pedit'

command.

"Entity is supposed to inside one of the following entities"

It means this highlighted entity should be present inside the one of the entities present in the given list"

"Entity is supposed to touching one of the following entities"

It means this highlighted entity is supposed to be touched one of the entities in given list

"Entity should be outside overlapped with following entities"

It means the highlighted entity should be outside overlapped with one of the th entities in the given list.

"Entity must contain one of following entities"

It means any one layer should be present inside in this entity which is listed.

Following subentities are not found inside:

Direction Ref Point on layer _Floor,

Type: BLOCK, Color: ByLayer Status:

Common Point on layer _ResiFAR,

Type: BLOCK, Color: ByLayer Status:

It means insert the direction reference circles in side of that entities.

"The corresponding Building not found with same name"

It means that proposed work not having building with same name. So assigned that building with having same name of proposed work.

"Mark Substructures using PreDCR mark Substructure tool"

It means mark the substructure by using mark -> Substructure menu. Do not type

substructure name manually.

"The Lift machine room not found in building"

It means Lift machine room having name not same in Plan & in section.

"The Lift poly is not suppose to be touch Lift machine room"

It means Lift machine room should be touch to lift poly in the section.

'Invalid objects, Please Try again"

It means if user marking balcony as a enclosed but selecting layer of terrace then this message are getting. If selected entity is incorrect then invalid objects message are showing. So select correct layer for particular of that layer marking only

"Section not found"

It means If all the floor plans are drawn but one of them in section floor are missing to converting floor in section layer then this message are getting. So draw all the floor plans with floor in sections.

"The corresponding entities not found in section"

It means that listed entities not present in the section so show that entities in the section.

"The corresponding entities not found in floor"

It means that listed entities not present in the floor so show that entities in the floor plan.

"Two Tanks should not have same Name"

It means that two tanks not having a same name. So assigned two tanks by using Assigned name PreDCR menu.

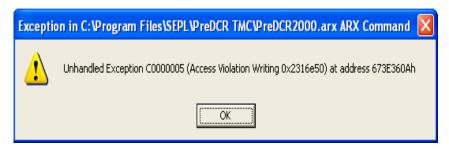
Internal error or Fatal error while verify the drawing

Copy that file and paste it into the new drg file & then verify.



If Drawing is automatically closed / crashed while marking any entity or verify complete drg.

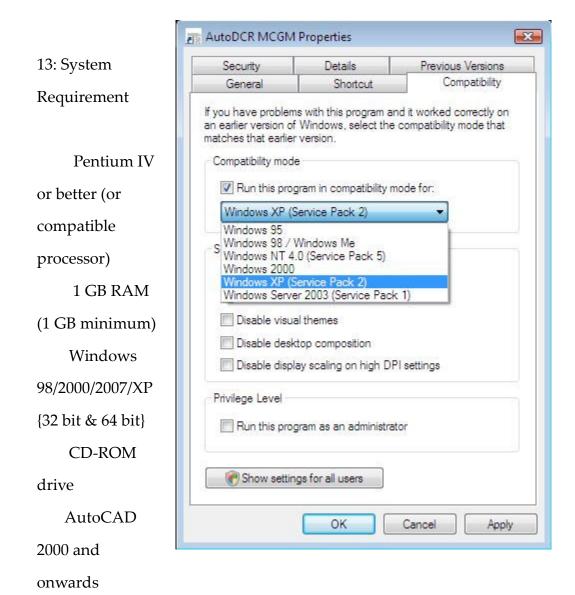
Copy that file and paste it into the new drg file & then verify.





While performing verification if following massage comes, then follow the steps

Check each layer separately until you found problematic layer. After that those layers
redraw.



PreDCR & AutoDCR Settings for Windows Vista Operating System

- ✓ Install PreDCR & AutoDCR
- ✓ After Installation, "Right Click" on Desktop Shortcut of Predcr OR AutoDCR I con & click on "Properties"
- ✓ Select "Compatibility" option from "PreDCR" OR "AutoDCR Properties" dialog.
- ✓ In that, Select "Run this program in compatibility mode for:" (from Compatibility mode option) & select Windows XP/Windows XP (Service Pack 2) option from List.

✓ Click on "Apply" button & then click "OK"

This is only one time changes. Now PreDCR OR AutoDCR will run fine in Windows Vista

This is the last page of the document