



DWG Add-on Deliverables

DWG Add-on

The DWG standalone offers a comprehensive starting point containing floor plans & optional ceiling plans. The DWG Add-on is available as Standard or Premium and is available in Metric or Imperial Units. The following items are available for a standalone DWG:

- **Point Cloud:** In the form of a DXF (.dxf) file, Point Cloud is available against the wall segments drawn for the iGUIDE Virtual Tour.
 - Provided by Default.
- **Floor Plans:** 2D AutoCAD 2018 drawing file (.dwg).
 - Provided by Default.
- **Ceiling Plans:** 2D AutoCAD 2018 drawing file (.dwg).
 - Provided as an Optional Add-on.
- **Delivery Time:** DWG Files are available within forty-eight hours* after the iGUIDE is published. Standard turnaround time for the completed DWG file is not guaranteed if the file is greater than 10,000 sq ft. The delivery date will be determined by the size and complexity of the property.

* DWG Floor Plan delivery time is dependent on property size, complexity, additional add-ons and may exceed 48 hours. Excluding Saturdays & Sundays, holidays, and outside office hours (Mon-Fri 9 am-5 pm ET).

	Standard/Premium
Included	<ul style="list-style-type: none"> ✓ Point Cloud (.dxf) ✓ Floor Plans (.dwg)
Optional	<ul style="list-style-type: none"> ✓ Ceiling Plans (.dwg)
Not Included	<ul style="list-style-type: none"> ✗ Elevation Plans ✗ Roof Plans ✗ Mechanical/Electrical/Plumbing Plans ✗ Life Safety/Building Code Plans ✗ Building Sections/Wall Sections/Detail Sections ✗ Site/Grading/Landscape Plans ✗ Window/Door Schedules ✗ 3D Representations
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>DXF</p> </div> <div style="text-align: center;">  <p>DWG</p> </div> </div>	
<p>*DWG line colours are subject to change and may not reflect the images presented herein. *Metric Values listed in the document are rounded.</p>	

Point Cloud Deliverables

The Point Cloud is Delivered within the DXF file, "Metric DXF". The DXF does not contain annotative text or dimensions of any kind. See [iGUIDE DXF Information](#) via the iGUIDE Help Center. *

* The DXF is an automatically generated copy of the iGUIDE Virtual Tour floor plan, whereas the DWG is manually drafted, and to different specifications. The DXF and DWG will not be 1 for 1.

DXF is a Drawing eXchange Format created by Autodesk for exchanging data between various CAD packages. DXF files can be imported into most CAD software, not only Autodesk software (e.g. AutoCAD, Revit). DXF format is publicly documented, as opposed to Autodesk's proprietary DWG format.

DXF files only store numerical coordinates, but do not store measurement units for those coordinates. iGUIDE DXF files store all coordinates in **millimetres**, which is signified by the Metric DXF naming. Incidentally, if the coordinates in the iGUIDE DXF file were stored in metres, the files would still be called Metric.

Our system does not provide DXFs in imperial units, such as inches or feet. However, when importing a DXF file into CAD software, you can apply any scale factor of your choice, depending on which units you need to work with in the CAD software. For example, to work in inches, you would choose the scale of 25.4 and to work in metres the scale of 1000. This selection can usually be made in the import dialogue.

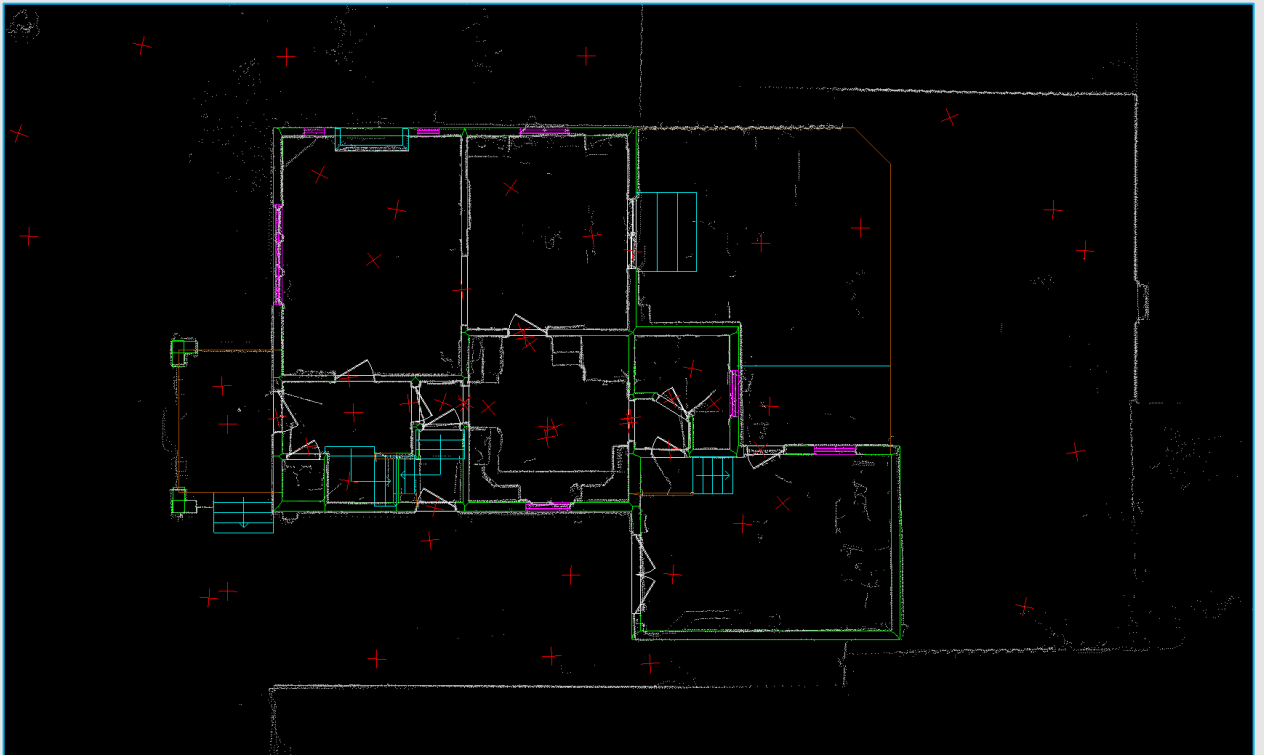


Figure # 1 - Standard Residential DXF File Output



Figure # 2 - Standard Commercial DXF File Output

Floor Plan Deliverables

Standard:

File Format: 2D AutoCAD 2018 drawing file (.dwg).

Interior Walls: Primarily drawn to follow standard dimensional lumber sizes. The most common interior wall thickness values will be 4 ½" (114mm) & 6 ½" (165mm).

- Wall Thicknesses: Drawn to follow ½" (13mm) increments.
- Wall Placements: walls will be placed so room dimensions are to the nearest ¼".
- Half-walls will be drafted as non-hatched walls to indicate non-full height walls.

Exterior Walls: Wall widths provided by an operator and ground level point cloud capture will be used as a starting point. The exterior wall width will be modified to adhere to standard dimensional lumber sizes, factoring in common brick or siding construction assembly thicknesses insuring reliable floor to floor alignment.

- Wall Thickness: Without supporting exterior data captured by an iGUIDE camera system, the exterior wall widths will be massaged to support vertically aligning floors based on interior point cloud data. Drawn to follow ½" (13mm) increments.

Structural Elements: Features such as fireplaces and columns each have different representations.

- Columns: Solid objects with standard shapes represented within the Interior of the property.
- Fireplaces: Single medium line types outlining the extent of the fireplace with a label.

Floor to Floor Alignment: Multi story properties will be aligned along common interior walls such as stairs. Exterior walls (as mentioned above) will be adjusted based on data interpretation, ground level capture and standard dimensional wall assemblies.

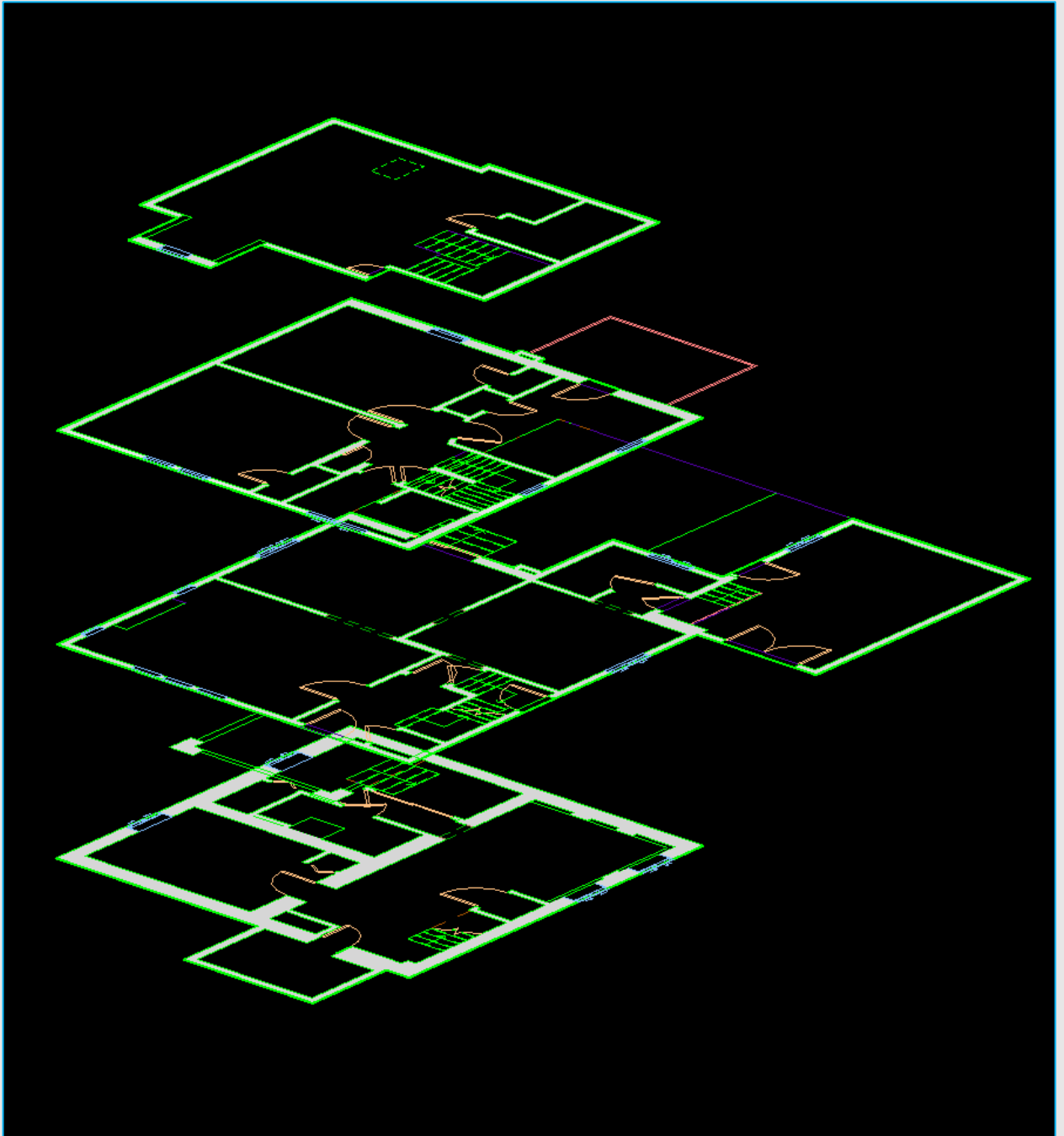


Figure # 3 - Floor to Floor Alignment

Doors: Represented using a block, with all the available door types featured in iGUIDEs. Doors are measured to the nearest 2" (51mm) intervals. Door widths are measured by the door opening width, measured from inside frame to inside frame.

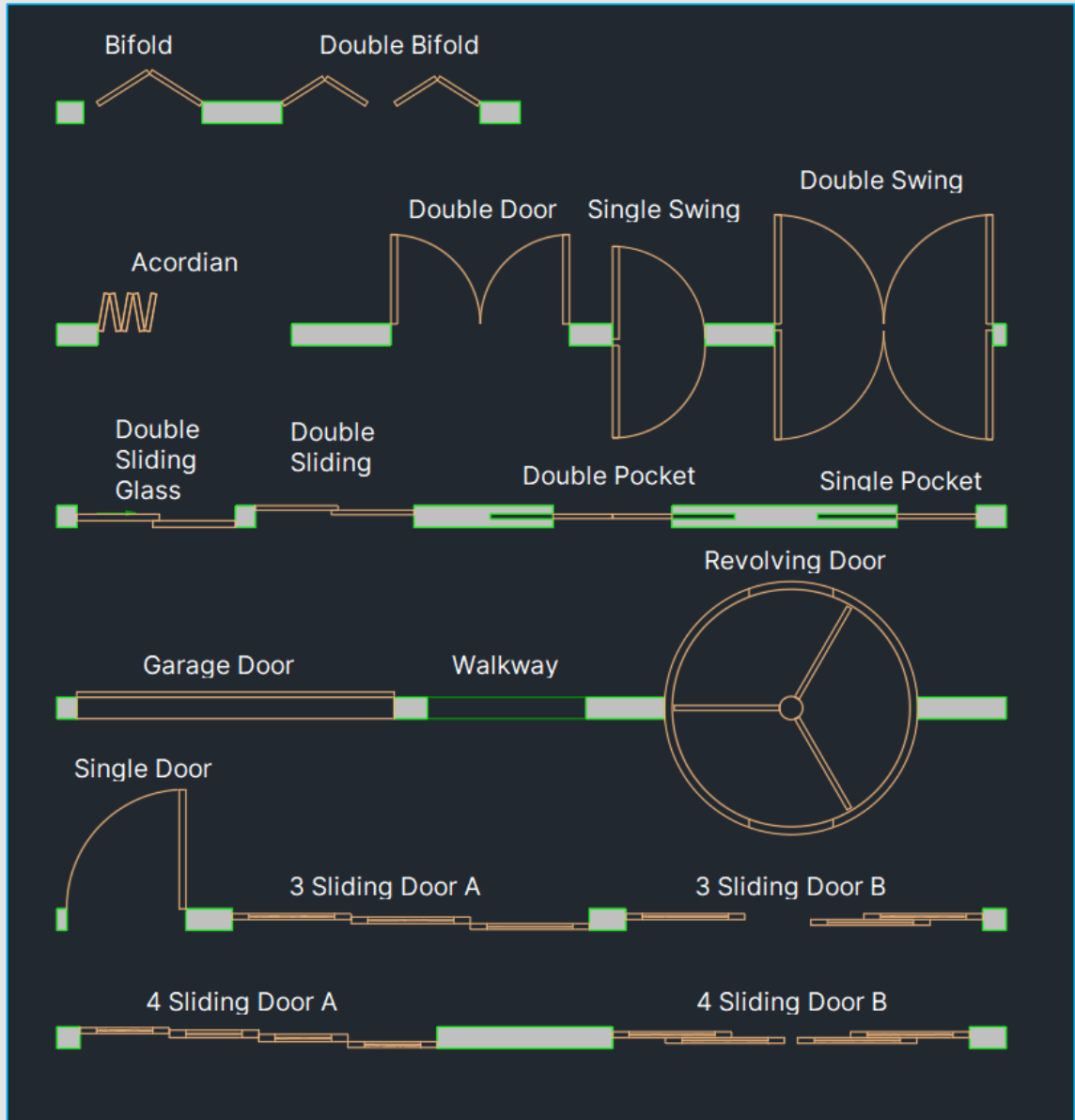


Figure # 4 - Door Styles/Types

Windows: Represented using a block, with seven available types shown below. Windows are measured to the nearest 1" increments. Window widths are set to include the frame surrounding the glazing.

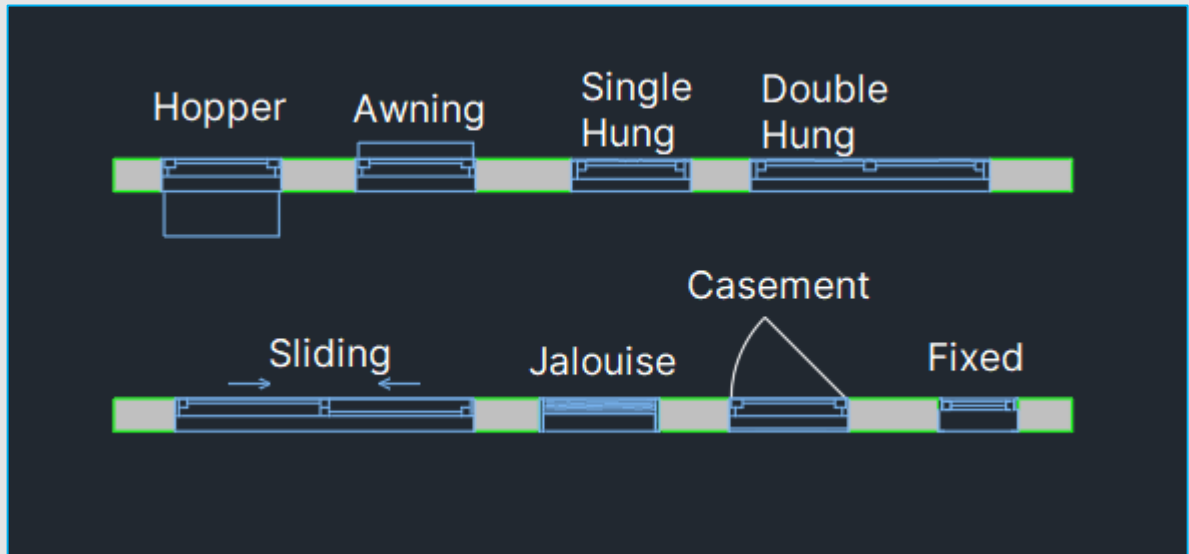


Figure # 5 - Window Styles/Types

Curtain Walls: Represented using a wall type, with a default 2.5x2.5 inch (63.5 mm x 63.5 mm) mullions. Curtain Walls are measured to the nearest 1" (25mm) increments.

Stairs: Represented with single lines indicating the steps going up and down. Risers are cosmetically represented and may not reflect the true value. Each set of stairs will have the corresponding label block.

- Stairs visible from four feet above the floor level down are not shown and have a break line. The four-foot cutline may be adjusted by drafters to include more of the stairs to match the iGUIDE.

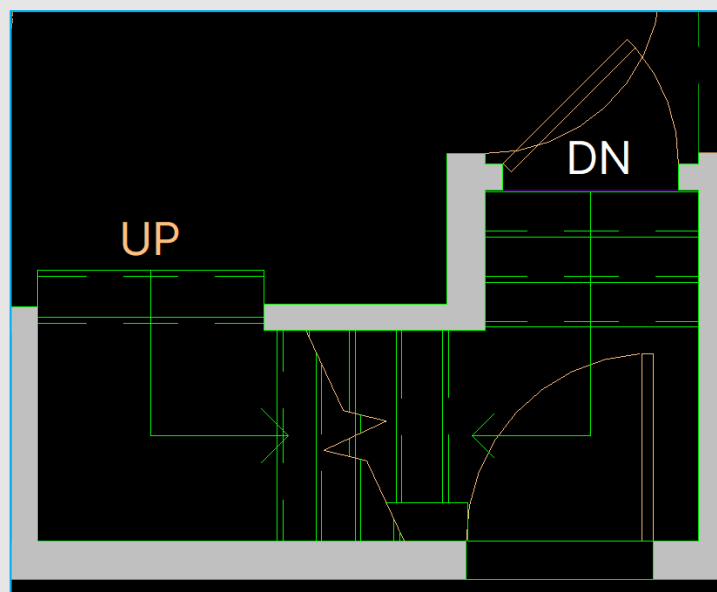


Figure # 6 - Stair Representation

Exterior Features: Exterior features such as porches, decks and balconies will be represented with single lines indicating where they are located.

- Exterior Stairs/Ramps: Exterior Stairs and/or ramps will be represented on the Floor Plan.
- Exterior Columns: External Columns that support the main structure will be represented on the Floor Plan.

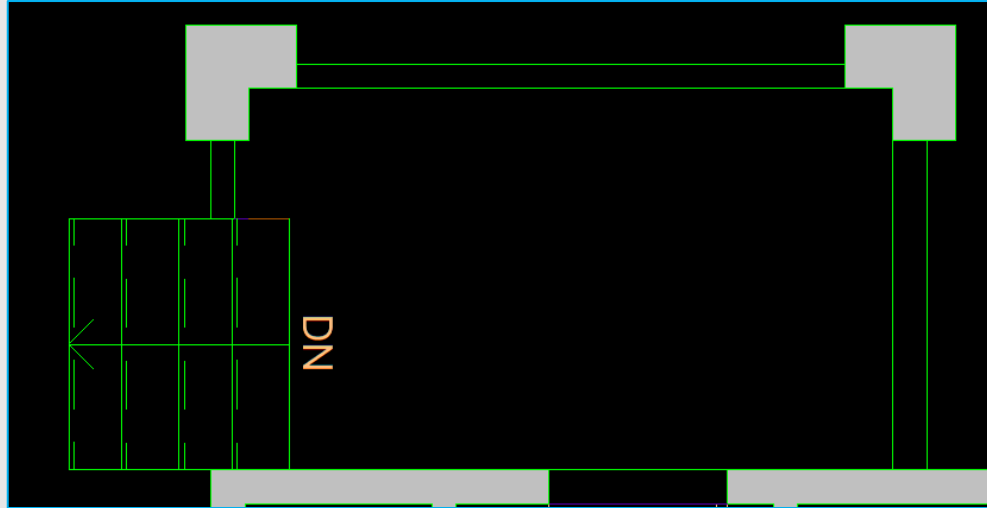


Figure # 7 - External Porch/Deck with Columns

AIA Layers: All components created are set under the specific layer determined by the AIA (American Institute of Architects) Layer Standard.



Figure # 8 - Standard Residential DWG Floor Plan Output

Premium:

All features listed for Standard Floor Plans contained in the 2D CAD Package in addition to the features listed below.

Room Labels*: Annotative room labels with varying sizes used to clearly indicate specific rooms.

Room Boundaries: Complete polylines outlining edges of rooms primarily used for determining the area of the room.

- Room Boundaries (polylines) are all turned off by default.

Room Areas*:

- Room Areas are indicated for Major Rooms such as bedrooms, kitchens, living rooms, etc.
- Room Areas are not indicated for Minor Rooms such as hallways, closets, etc.
- Room Areas for spaces such as voids and stairs are not indicated.

Room Measurements*:

- Not in the form of a Dimension String, but in the form of a label indicating the longest Width & Length of a room.
- Room measurements are taken paint to paint or interior face of wall to interior face of wall.
- Room measurements are shown for major rooms, similar to what's displayed on the iGUIDE.

Room Heights*:

- Flat Ceilings will contain a single vertical dimension to the nearest 1" (25mm).
- Sloped, Vaulted or Tray Ceilings will be denoted as variable (VAR.).

*Room Dimensions may differ from the DXF & the iGUIDE Virtual Tour.

*All annotations listed above are dependent on the size of the space. If the room is too congested or small, some or all annotations will be omitted. Generally, annotations are represented in a similar fashion as the iGUIDE Floor Plan.

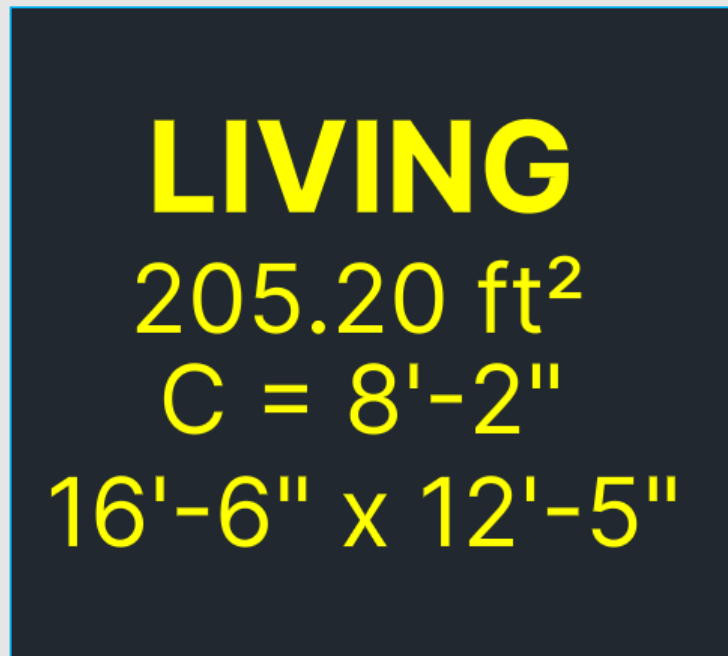


Figure # 9 - Room Annotations

Premium Objects: Premium objects, millwork, and counters. Outlined with a solid thin thickness line if below four feet from the floor level, and a dashed thin thickness line if under counter, like the iGUIDE.

- Kitchen: Objects such as Fridges, Stoves, Dishwashers & Sinks will be represented.
- Bathroom: Objects such as Toilets, Sinks, Showers & Tubs will be represented.
- Laundry: Objects such as Washers & Dryer will be represented.
- Mechanical: Objects such as a Furnace, Water Heater & Hydro Meters will be represented.
- Commercial/Retail: Objects such as Cubicles, Store Shelving & Janitorial Sinks will be represented.



Figure # 10 – Misc. Premium Areas

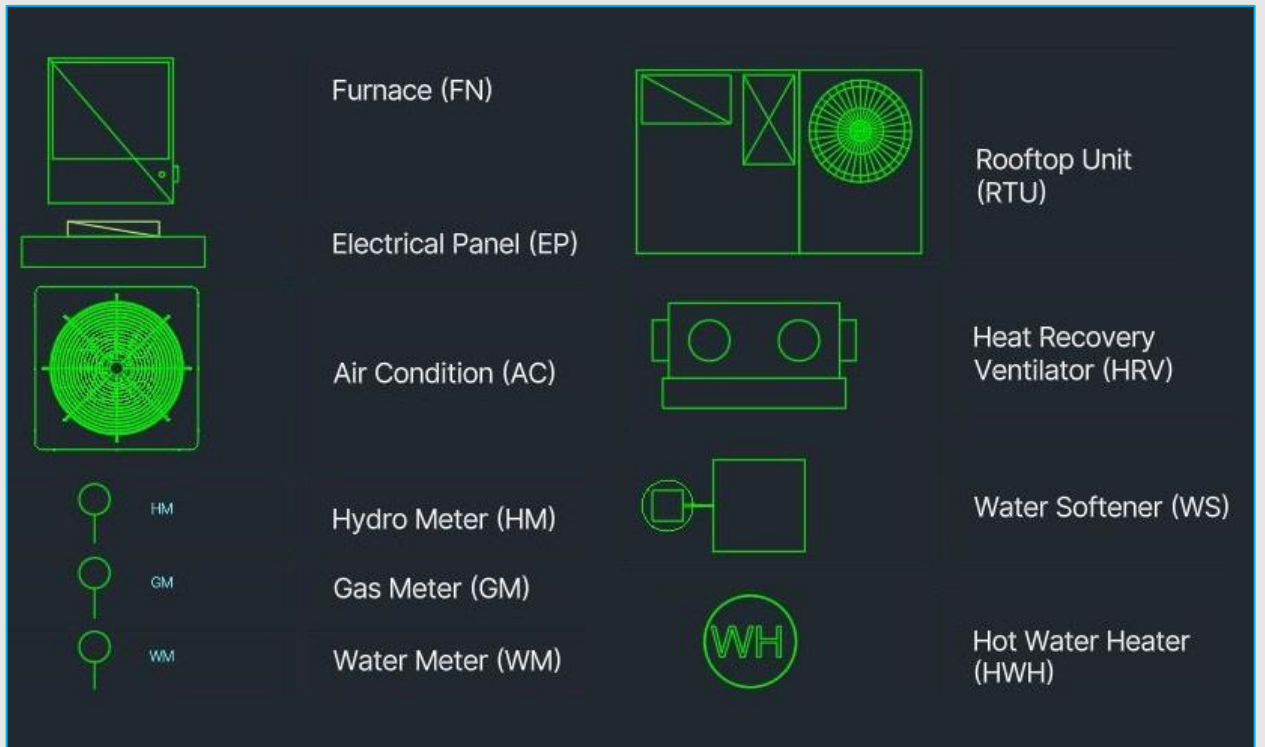


Figure # 11 - Mechanical Objects for Premium Floor Plans

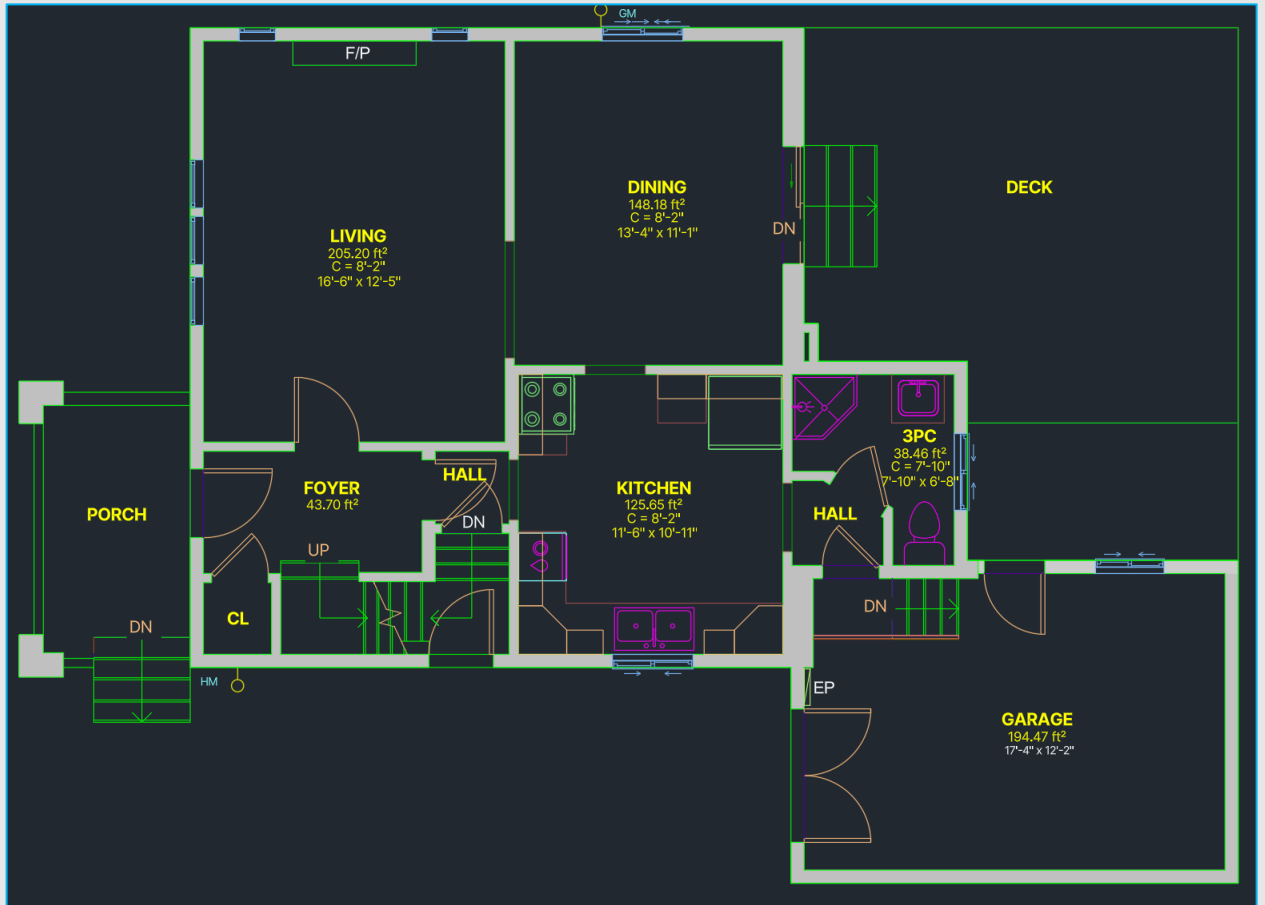


Figure # 12 - Premium Residential DWG Floor Plan Output

Floor Plan Comparison Matrix

	Standard	Premium
Included	<ul style="list-style-type: none"> ✓ AutoCAD 2018 Drawing File ✓ Wall Types & Placement ✓ Walls Sizes at 1/2" (10mm/13mm) Tolerances ✓ Wall Placement at 1/4" (5mm/6.5mm) Tolerances ✓ Door Types & Placement ✓ Window Types & Placement ✓ Stairs ✓ Structural Elements (Columns, Fireplaces) ✓ AIA Layer Format ✓ Floor to Floor Alignment ✓ External Features (Decks, Patios, Porches) 	<ul style="list-style-type: none"> ✓ Standard List Deliverables ✓ Room Labels ✓ Room Area ✓ Room Measurements ✓ Ceiling Heights (Flat) ✓ Premium Objects
Not Included	<ul style="list-style-type: none"> ✗ 3D AutoCAD/3D Representation ✗ Ready to Plot Sheets ✗ Wall Assembly Details ✗ Floor Material ✗ Point Cloud ✗ Project/Survey Coordinates ✗ Complex Ceiling Heights/Representation (Sloped, Vaulted or Tray) ✗ Structural Elements (Beams, Lintels, Joists) 	

Reflected Ceiling Plan Deliverables

File Format: 2D AutoCAD 2018 drawing file (.dwg).

Walls: Walls provided on the Ceiling Plan are a copy of the Floor Plan.

Doors/Windows: Doors & Windows contained within the walls of the floor plan are only visible on the Ceiling Plan if they exceed the cut plane.

- Skylights: Similar to windows provided on the floor plan, skylights will be represented on the ceiling plan to the nearest 1" (25mm).

Ceiling Types: Acoustic panels will be represented with an appropriate grid relative to the visuals provided by an iGUIDE Camera System. Drywall ceilings will not appear with any type of hatch pattern. Open ceilings (exposed sub-floor or underside of steel decking) will not be represented with any hatch.

- Open/Exposed Ceilings: Any structural elements such as beams, open web steel joists, wood joists, etc. will not be represented.
- Mouldings and Ornaments: No specialty molding or trims will be represented on the ceiling plan.
- Suspended Architectural Panels: Suspended panels will be represented in an appropriate, approximate location.

Complex Ceilings*: Bulkheads, tray & cove ceilings are represented as a hidden line boundary.

Sloped/Vaulted Ceilings*: A hidden line represents the peak of a vaulted ceiling.

Roof/Attic Access: Represented as a block to indicate the location of or access to the Attic of a Residential Property or Roof of a Commercial Property.

Lighting Elements*: Basic representation of recessed lighting, ceiling mounted lighting, pendant/suspended lighting, wall light, recessed fluorescent lighting, suspended fluorescent lighting, ceiling mounted fluorescent, lighting track lighting, linear strip lighting & ceiling fans.





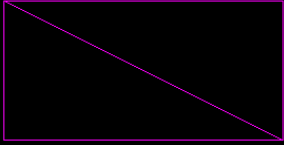
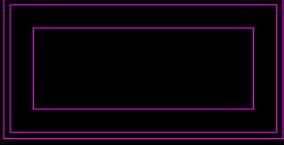
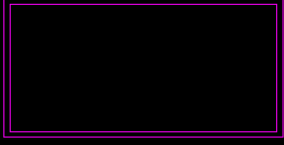


	Recessed Light
	Ceiling Mounted Light
	Wall light
	Pendant/Suspended Light
	Suspended Fluorescent Light
	Recessed Fluorescent Suspended Light
	Ceiling Mounted Fluorescent Light
	Track Light
	Linear Strip Light

Figure # 13 - Lighting Elements Represented on the DWG Ceiling Plan

Safety Elements*: Emergency Lighting (wall mounted), emergency exit lighting (ceiling mounted), emergency lighting (ceiling mounted), emergency battery units, smoke detectors, carbon monoxide detectors & fire alarm annunciators.

*Life Safety Plans are not provided. Only basic lighting elements that relate to life safety features. This offering does not suffice as a Life Safety Plan.









	Emergency Light – Wall Mounted
	Emergency Light – Ceiling Mounted with Arrow
	Emergency Light – Ceiling Mounted
	Emergency Battery Unit
	Smoke Detector
	Carbon Monoxide Detector
	Speaker
	Fire Alarm Annunciator

Figure # 14 - Safety Elements Represented on the DWG Ceiling Plan

Mechanical Elements*: Surface level air diffusers, air vents, exhaust fans, air grills, ceiling fans & speakers.

- Open/Exposed Mechanical: Any mechanical systems such as ducts will not be represented in open/exposed ceiling areas.

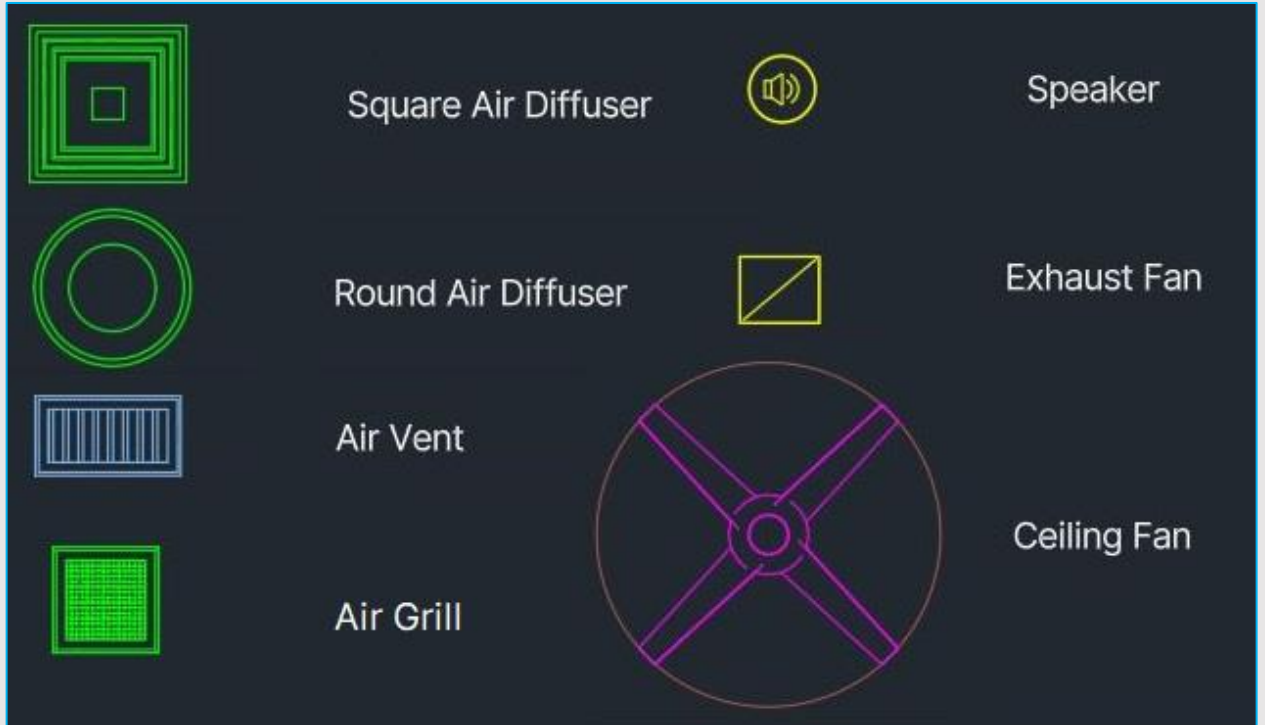


Figure # 15 - Mechanical Elements Represented on the DWG Ceiling Plan

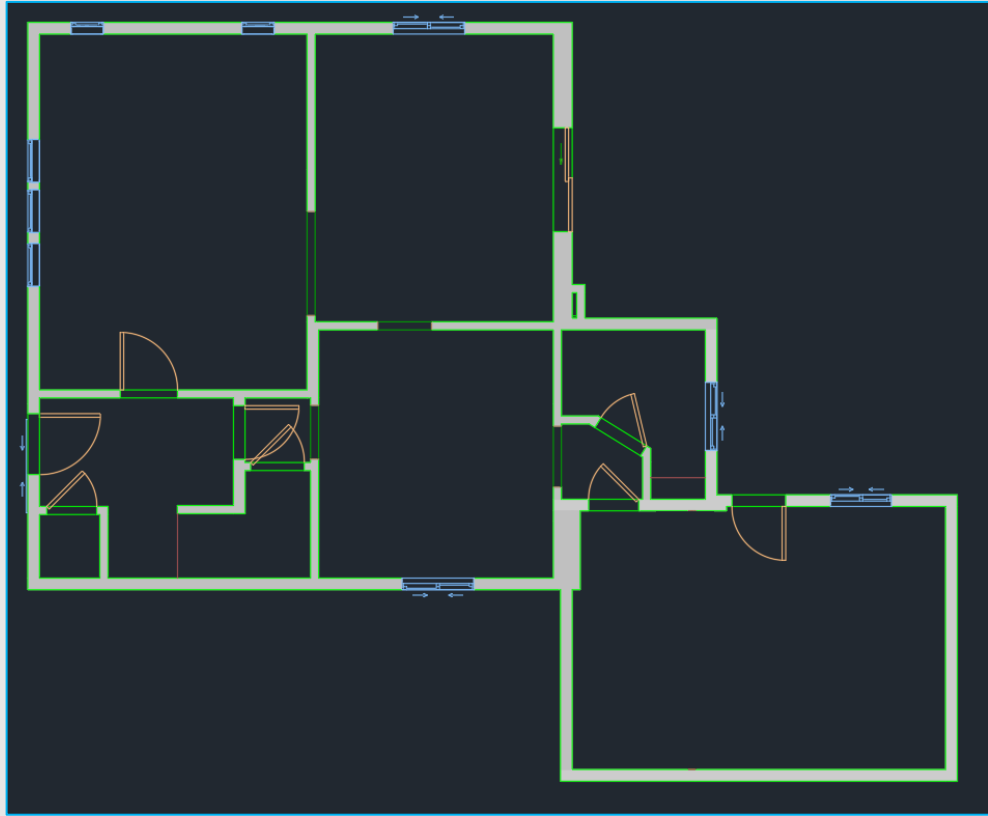


Figure # 16 - Residential Standard Ceiling Plan DWG Output



Figure # 17 - Residential Premium Ceiling Plan DWG Output

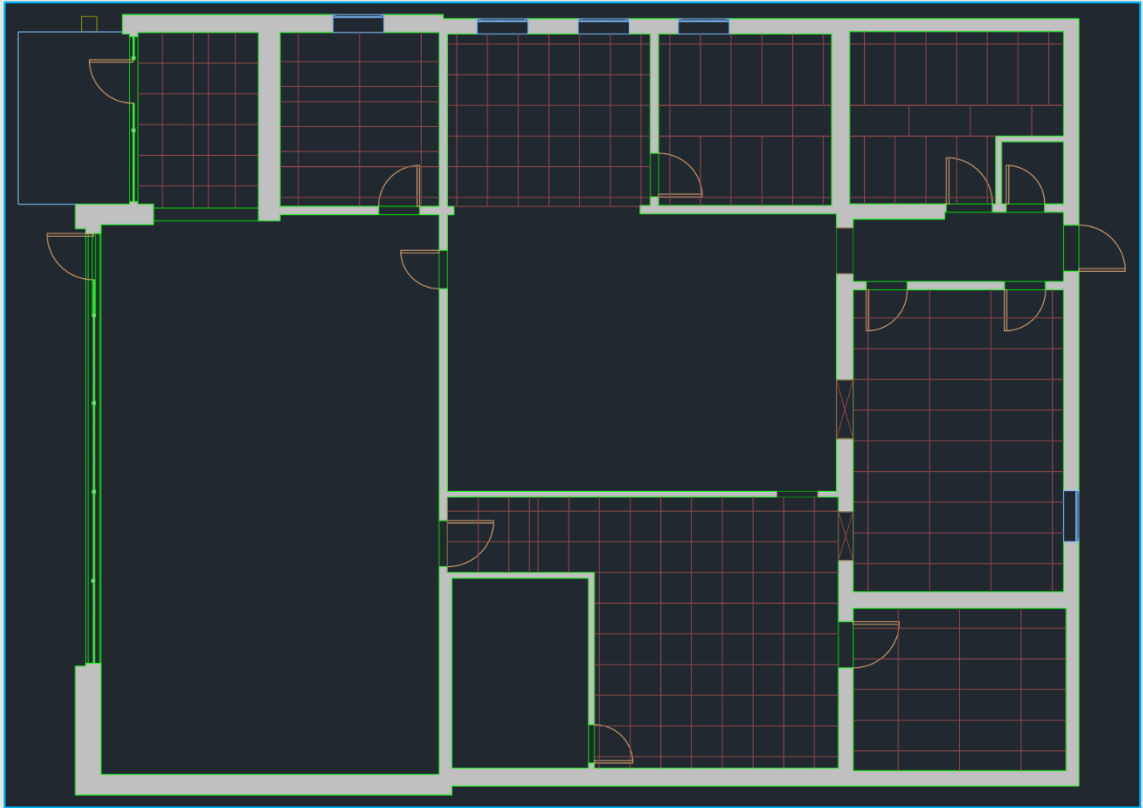


Figure # 18 - Commercial Standard Ceiling Plan DWG Output

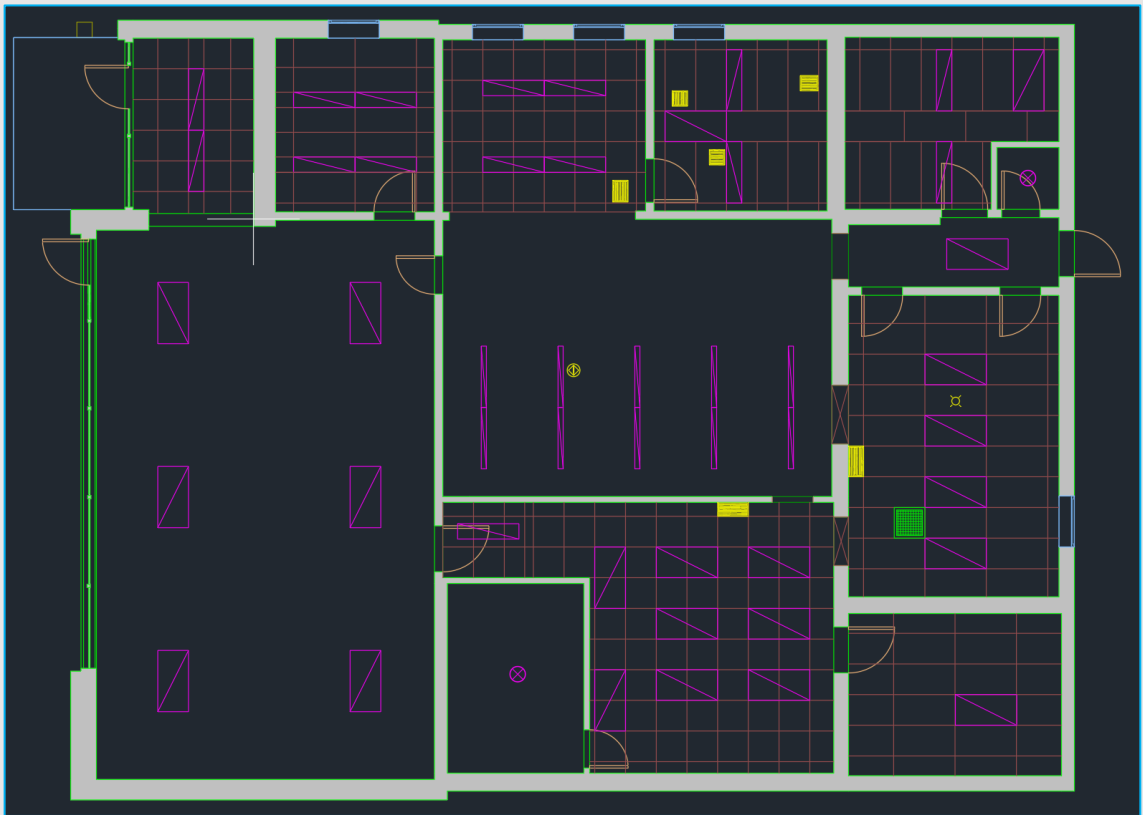


Figure # 19 - Commercial Premium Ceiling Plan DWG Output

Reflected ceiling plan (RCP) drawings are an essential tool in architecture and construction, offering a detailed depiction of the ceiling layout by reflecting it as if seen from below. Unlike traditional ceiling plans, RCP drawings incorporate additional information such as lighting fixtures, HVAC, and other ceiling-mounted or surface level elements.

These drawings typically rely on a combination of floor level measurements and 360-degree images to create a reliable representation. Floor level measurements provide the foundation for the layout, while 360-degree images capture a comprehensive view of the ceiling space from various angles. By integrating these two sources of information via an iGUIDE Camera System, RCP drawings aim to provide a more complete and reliable depiction of the ceiling layout.

While RCP drawings are based on measurements and images, it's important to recognize that they are still approximate representations. Factors such as perspective distortion, variations in ceiling height, ceilings exceeding one storey in height (14 feet, 4.3 meters) and the complexity of ceiling elements can affect the accuracy of the drawings to some extent. All room dimensions and floor areas must be considered approximate and are subject to independent verification.

Reflected Ceiling Plan Comparison Matrix

	Standard	Premium
Included	<ul style="list-style-type: none"> ✓ Ceiling Types ✓ Skylights ✓ Roof Access Hatches/ Attic Access Hatches ✓ Bulkheads 	<ul style="list-style-type: none"> ✓ Standard List Deliverables ✓ Premium Objects ✓ Surface Level Lighting Fixtures ✓ Surface Level Safety Features (Related to Lighting) ✓ Surface Level Mechanical Features
Not Included	<ul style="list-style-type: none"> ✗ Annotations, Measurements or Ceiling Heights ✗ Life Safety Plan ✗ Sprinkler Systems & Routing ✗ Mechanical Systems & Routing ✗ Electrical Systems & Routing ✗ Custom Lighting Fixtures ✗ Structure 	
<p>*Deliverables are dependent on successfully meeting Capture Requirements.</p> <p>*Ceiling Plan Deliverable is available as an Add-on.</p>		

Additional Information

This section of the document provides additional information not contained within the core body of the deliverables above.

Data Interpretation – North America

Data Assumptions/Deviations: In the goal of providing a workable DWG file that has walls at appropriate thicknesses and locations, there will be some assumptions made that may result in deviations from the laser data. Accuracy is always a valuable deliverable, with these assumptions, the DWG file produced maintains its accuracy while also being easily modifiable for any uses. In the cases where the laser data proves to be more accurate, less assumptions will be made, and vice versa, if the laser data is of poor quality, more assumptions will be made.

Dimensional Lumber Assumptions: As stated in Interior Walls, typical wall thicknesses will utilize dimensional lumber increments and increase relative to the laser data but not be strictly governed by them. The data will be used as a reference with some discrepancies to ensure the consistency of interior wall thicknesses.

Exterior Wall Assumptions: To ensure the exterior face of all perimeter walls are aligned from floor to floor (with reference to the iGUIDE to determine if a wall is not aligned) the exterior wall thicknesses may deviate from the data provided. This ensures a clean, usable starting point that is aligned and easily editable for continuing the process of completing the file.

Data Interpretation – Outside North America

Wall Assumptions: As stated in Interior Walls, typical wall thicknesses will utilize dimensional lumber increments and increase relative to the laser data but not be strictly governed by them. Walls drawn for properties outside of North America will be drawn against the Point Cloud to the nearest ½" (10mm/13mm) whereas room dimensions will be measured to the nearest ¼" (5mm/6.5mm). Interior walls and exterior walls may not contain consistent uniform thicknesses.

Verticality & Alignment: To ensure wall measurements are to the nearest ½" (10mm/13mm) for interior walls & exterior walls, full floor to floor alignment may not match and cannot be guaranteed for the DWG files.

Complex Properties

Properties of unusual build/architecture may not be possible to provide. Even with an iGUIDE Camera System with detailed lidar capture/scan coverage, providing comprehensive information about complex building structures may not be feasible. While the technology enables precise measurements and mapping, the intricate designs, and functionalities of certain structures, may pose challenging in delivering reliable data.

Complex Properties may include but are not limited to, Yurts, Domes, Places of Worship, Theatres, Stadiums, Arenas, Industrial Facilities, etc. Complex Properties, if completed, may contain limited details. iGUIDEs of non-building structures such Planes, Train & Automobiles will not be provided.