5 Boro Jobs

Brooklyn, Bronx, Manhattan, Staten Island, and Queens

Use NY Five Borough Template and begin as normal.

* Excel- 3/4 conduit

Site near photo must include houses, tree line, water ways and/or roads surrounding the property. (#1- Site Near)

* The Vicinity Map is your site far
* Satellite is your site near.
* You will design the Survey (#2- Survey).

Design customers house as normal.

* Panel count, 3’ setbacks (at ridge only), meters, and labels
* If pitch is 9 degrees and under: 6’ setbacks are required and the ridge and along one side (towards the street)

The survey (#2- Survey) is the layout of the house including property lines, improvements, concrete, driveway, sidewalks, and the properties surroundings.

* Symbol (#3- Existing) gets placed over the properties surroundings. Neighbor’s homes, surrounding roadways, tree lines, or waterways with the correct description

Copy just a the customer’s house with the panels for elevations (#4- Elevations Layout)

Strip of all labels and remove vent hatching, make sure to keep any chimneys (#5- Plain View). Removing extra lines now helps prevent confusion when thrown into 3d views.

Rotate each house so that three elevations required can be drawn. (#6- Required Elevations)

* One of the front, one side with equipment, and the last side is any with panels (5 boros requires 3 sides of elevations regardless if equipment and panels are on same side, only time this rule does not apply is during a row home when only the front and back are visible but need to show the continuation of the buildings on either side (Row Home Survey, Row Home Elevation and Elevation 1)).

Explode panels and remove inside blocks, match properties for red modules. Remove overlapping lines (any lines that would not be depicted in that side’s elevation to prevent confusion) (#7- Stripped View)

Hold the shift key and slightly move the wheel of the mouse to get into 3d mode. Make sure this is only a slight move (#8- 3D Mode).

Tilt just slightly to see roof pitches, high light houses and use 3d rotate command a red, green, and blue spear will appear (#9- 3D Rotate). Click the red line and pull your curser up. You will see the roof lines flip around as you move your mouse. Pull up either to the right or left side of your screen until the roof peaks are at the top then type 90 and enter (#10- 90 Rotate). Once out of 3d mode (#11- Roof Frame)

Align the three sets of houses so that they even with each other (#11- Roof Frames).

Place house level symbol at the peak of home, not the top of the chimney (#12- House Level).

* Start with the front of the home so stairs and windows can be easily transferred the height to the sides

Draw a line of your peak to ground height and adjust the “top of peak and approximate grade” lines Draw in the sides of house, then you can delete that original height line. (#13- Height)

* When drawing lines be sure to do this away from your wire frame. Snapping points can distort the lengths.

The panels need to be moved straight up off the house by 2” once moved you’ll another set of lines these also get moves straight up by 4”. Connect the ends of the panels with a straight line, each panel should be 2” of the roof and 2” wide (#15- Panels)

Place in windows, doors, stairs and other details to match the customer house as closely as possible. (#16 & #17- Details)

* The doors, garages and stairs should be correct in sizing.
* The windows and railings will needs to be stretched or scaled to match each customer.
* If designing a new detail please add it to the template
* Measurements and trimming tools may have issues while drawing since lines are pitched

Make sure to adjust your floor levels. Adjust dimensions accordingly. To get equal heights for first and second floor draw a line between them and snap to the center. (#18- Floors)

Once the front is complete use this as a guide for the side. Copy house level symbol from first house and drag across to the side view of your home. Continue the side same as the front.

* Draw lines from stairs and railings to get heights (#19- Side Heights).
* If windows are the same just drag across or draw similar lines like stairs.
* Use your eye to align your object with other parts of the house. (The railings are about the same height as the bottom of the windows, The top window is right in front of the beginning of the chimney, last bottom window starts right under the vent) (#20- Side Details).
* Added lines need to be deleted after intended use.

Make final adjustments to side and then make a copy (#21- Final Side-1).

Mirror the copied elevation drawing (#21- Final Side-2) and copy over the panel layout (#21- Final Side-3) #21 (Final Side-4).

Adjust sides such as windows and side doors to match. (#22- Side Adjustments)

* As you go you’ll see small adjustments just make sure you reflect those on the other two sides as well.

Meters symbol (#23- Meter), Pv label (#24- Pv Label), and pitch describer (#25- Pitch).

* Pitch describer is the white page (uploaded in jellybean/5boro) which is your rise over run. Locate the closest number to your pitch. 25=6/12

Complete 3 line as usual and data link update

On cover page, click in view port to put in your survey. Scale is on the bottom right of the screen (#26- Locate Scale) (#26- Scale). If size is other then what’s there scroll to bottom and create a custom scale (#26- Scale- 1). Change the name appearing in scale and the drawing units to the new desired scale then ok and ok again (#26- Scale- 2).You’ll have to go back to the scale and this time it will be at the top of the list so be careful to look for it Change scale type text under the survey to new scaling

On layout you can zoom in to the survey. Use structural and engineering action items for rater size and spacing (#27- Structural).

Elevations are opposite then architecture elevations. Place compass in center of house and the arrows depict the sides verses the directions you’re facing. Each side needs to be to scales that’s depicted below viewport (#28- Arrow).

3line pages (#29- 3 Line) move conduit table and note above over so it is not in way of the approval stamp box

Persaud, Satya-