BUILDING FOOTPRINT Edit Protocols

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Overview

At present we (OTI) are not doing any research of our own to identify building changes. Our main goal is to work with DCP to get the BIN information that is in Geosupport/PAD synchronized with the BINs in Building Footprints- they should be the same. To this end, we don't want to perform our own research and duplicate the work that DCP is doing.

Editing Protocol

New buildings

- a. Only use triangles as a last resort or when start of construction is on hold. If you can make a good guess at the likely shape and location of the building footprint, draw it.
- **b.** Try to capture the shape as accurately as possible. Ask about controls to create parallel lines and 90-degree angles if you don't know how to do this.
- c. If no imagery exists, use DOB BIS Zoning diagram and do the best you can.
- d. Try to keep the footprint inside the tax lot as much as possible, but only if it doesn't distort the shape too much. How much is too much? Let's

- start out with a maximum 2-foot deviation from the actual image building wall location.
- e. For all new building footprints we are deleting the old address point and adding a new one- this applies even if the house number does not change.

Demolitions

- f. Copy the footprint from building and paste special into building_historic.
- g. Update last_status_type to demolition and demolition years.
- h. Bad buildings/sheds/corrections: If a footprint existed long enough to have a BIN and DCP wants it gone, move it to building_historic and set last_status_type to "Demolition." It is demolished from the database, not in meatspace.
- i. Leave all other attributes, including geom_source, alone.
- i. Delete the associated CSCL AddressPoint feature.
- k. Also check CSCL common places for possible deletions.
- I. Delete the existing CSCL AddressPoint and if there is a new building, create a new address point.
- m. If you demolished without DCP direction see #1 under tickets below

Merges or Splits

- n. **For Merge**: Set LAST_STATUS_TYPE to "Merged" for all footprints that will be merged. Copy all footprints that will be merged to BUILDING_HISTORIC. In BUILDING select all the footprints that will be merged. Merge them into the footprint with the BIN that will be retained. Set GEOM_SOURCE = "Other (Manual)." Check other attributes as necessary to see if they are still correct: BASE_BBL, FEATURE_CODE.
- o. **For Split**: Set LAST_STATUS_TYPE to "Split" for the footprint that will be split. Copy the footprint that will be split to BUILDING_HISTORIC. In BUILDING select the footprint that will be split. Split the footprint and assign the BINs to the new footprints as indicated in the ticket. The BIN assignments should be confirmed with DCP. Set GEOM_SOURCE = "Other (Manual)" Check other attributes as necessary to see if they are still correct: BASE_BBL, FEATURE_CODE.
- p. **Notify FDNY**: Send email with a short explanation in the Subject Line (e.g. "Footprint was Split, DOITT_ID = ???????" or "Footprint was Merged, DOITT_ID = ??????") and include a screenshot with the BIN of the post-edit features in BUILDING feature class. This will be a temporary thing until

FDNY is sure they are not missing anything important when we make these changes. Send mail to: Michael.Brady@fdny.nyc.gov, cc: mrahman@oti.nyc.gov

Type 1 Alterations

- q. Flag LAST_STATUS_TYPE = "Alteration" and add the ALTERATION_YEAR
- r. Copy the original footprint to BUILDING_HISTORIC and modify the footprint in BUILDING.
- s. Set GEOM_SOURCE = "Other (Manual)" and change HEIGHT_ROOF, if necessary. This will allow the footprint to retain its DOITT_ID. The modified footprint will also retain the same BIN.

Attribute Protocol

NIANAT	Not exitical but if you soo it in Cyclomodic add it
NAME	Not critical but if you see it in Cyclomedia add it
BIN_NUMBER	If you can't find a BIN number for a new footprint or the
	DOB BIS record uses the same BIN as the demolished
	building, add a million BIN temporarily and create a ticket
	for DCP to provide a BIN for the structure.
	If DCP requests that we update a BIN just update it.
	Simple identifier changes do not need to be recorded in
	building_historic.
BASE BBL	The BASE_BBL is the BBL of the tax lot the footprint is
	physically located within.
CONSTRUCTION_YEAR	Use the year when the building is first visible (for
(DEMOLITION_YEAR)	CONSTRUCTION_YEAR) or is no longer visible in imagery (for
	DEMOLITION_YEAR). Use orthos to check for the even years
	and pictometry for the odd years.
	Refer also to X-status in the Building Info System
GEOM_SOURCE	"Other(manual)" is the default for standard digitizing
LAST_STATUS_TYPE	Our default is constructed. Select alteration, split, marked
	for construction, or merged as described here in the
	protocols.
	Building_Historic legal values: Demolition or Alteration
DOITT_ID	Auto populated
HEIGHT_ROOF	Don't leave blank! You can get it from plans in DOB BIS
	Zoning Diagram or make measurements on Cyclomedia or

places. Round up to the nearest foot. FEATURE_CODE Building: The default. An addressable structure with a BIN. Building Under Construction: We may remove this. Once construction has begun a building under construction is a building. Garage: A non-addressable outbuilding with a BIN that is obviously a garage. Skybridge: An aerial structure connecting two buildings that has been assigned a BIN. Parking: Used for addressable parking lots that have been assigned a BIN. Gas Station Canopy: For cases where there is a booth that also has a BIN below the canopy footprint, we will create overlapping footprints. The booth will have a FEATURE_CODE of "Building". Storage Tank: For storage tanks (gas, liquids, grain, etc.) that are assigned a BIN. Placeholder: For the triangles we add when we have no data source available to add a new footprint. Auxiliary Structure: This is for a non-garage, non-addressable, permanent structures. Temporary Structure: This would be for structures that are more temporary, but still are assigned BINs and have addresses. An example would be trailers stationed temporarily for construction projects. Cantilevered Building: This is for buildings where some portion of the footprint overhangs another building footprint, but is not a Skybridge, which is typically narrow and serves solely as an aerial bridge between two structures. STATUS Not used, ignore GROUND_ELEVATION Don't leave blank. Use elevation from Eagleview or Cyclomedia. Or if those are not applicable you can interpolate from planimetrics_2022.elevation. Don't guesstimate from neighboring buildings, that's oldskool. ADDRESSABLE Not published. Possibly defunct. MAPPLUTO BBL Automatically updated each evening during building maintenance		Pictometry imagery. Use only whole numbers, no decimal
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MAPPLUTO BBL Automatically updated each evening during building		guesstimate from neighboring buildings, that's oldskool.
	ADDRESSABLE	Not published. Possibly defunct.
maintenance	MAPPLUTO BBL	Automatically updated each evening during building
		maintenance

CONDO_FLAGS	Not used, ignore
ALTERATION_YEAR	Populate for alterations.

Ticket Protocol

- 1. **Super Important!** If you demolish a building that did not come from a DCP ticket edit request, check to see if the BIN shows up in GOAT. If the BIN still shows up in GOAT, create a ticket for Manager DCP to inform them that the building was demolished. This is what I write in the ticket, feel free to copy it if you like. "Moved DOITT_ID/BIN 636668/3032880 to BUILDING_HISTORIC and deleted from BUILDING.
 - Deleted ADDRESSPOINTID 5166316 with HOUSE_NUMBER 1550 BEDFORD AV. Please update DCP records as necessary and close this ticket."
- 2. Create a new ticket for anything that is required from DCP that is not part of the original edit request. Assign it to Manager DCP.
- 3. If you must ask DCP for clarifications or questions for an edit ticket, use the Reassign option to do it. Reassign the ticket to the original creator or to Manager DCP, depending on your experience with the creator's likelihood of responding.
- 4. Try not to assign yourself more buildings tickets than you can work on in one day. This makes it easier to track what is getting done.
- 5. For NEW Buildings found by OTI: For any "new" buildings we find while performing our normal edits, before creating a ticket to DCP requesting a BIN, check DOB BIS to see if the building is a Type 1 Alteration (no BIN change). If it is a Type 1 Alteration, we do not need to notify DCP. Edit the footprint per instructions for Type 1 Alterations above or create a ticket and assign it to the CSCL manager.
- 6. On DCP tickets when the say "resize" or "reshape" a footprint, always check DOB on Jobs/Filings:
 - a. If the building was demolished (DM), follow instructions above for Demolitions.

b. If the building was Altered, follow instructions above for Type 1 Alterations then make a copy of the footprint to BLDG_HISTORIC, reshape the original footprint on BLDG layer and check if Building Height changed and update on Attributes table.

Data Sources

Imagery:

- Orthophotos: (even-numbered years) should all be available on https://nyc.maps.arcgis.com/
- 2. Pictometry/EagleView CONNECT web application and ArcMap Toolbar: You can add this imagery to your ArcGIS Pro document and heads-up digitize most buildings. If you don't know how to add this imagery, ask and we'll show you.
- 3. Cyclomedia: Don't forget that there are historical "cycloramas" you can switch to for imagery back to 2017. You can measure building heights in the StreetSmart web application.
- 4. Google maps (Street view): You can go back on historical "Street views" as early as 2007.

Vector:

- 1. CSCL data: Use CSCL_PUB
 - a. CSCL_PUB is refreshed with CSCL data every week
 - b. ArcGIS Pro can read CSCL_PUB but not CSCL
 - c. Connect as CSCL_READ_ONLY to view CSCL_PUB
 - d. Add these layers
 - i. CSCL_PUB.AddressPoint
 - ii. CSCL PUB.Centerline (inside CSCL PUB.CSCL feature dataset)
 - iii. CSCL_PUB.CommonPlace
- 2. Park Structures
 - a. Download and add when you need fresh DPR data
 - b. https://data.cityofnewyork.us/dataset/NYC-Parks-Structures/n8q6-i44s
- 3. Planimetrics
 - a. Most layers are available on https://nyc.maps.arcgis.com/
 - b. Planimetrics buildings are loaded as BLDG.PLANIMETRICS. Use bldg_readonly to access
- 4. Tax Lots
 - a. https://services6.arcgis.com/yG5s3afENB5iO9fj/arcgis/rest/services/DTM_ETL_DAILY_view/FeatureServer/0

- b. You will find the tax lots under:
 - i. https://services6.arcgis.com/yG5s3afENB5iO9fj/arcgis/rest/services6
 es
 - 1. DTM_ETL_DAILY_view
 - a. TAX_LOT_POLYGON

Project Setup and Other Tips

- 1. AddressPoint labeling, VBScript
 - a. [HOUSE_NUMBER] & " " & [HOUSE_NUMBER_SUFFIX] & " " & [HOUSE_NUMBER_RANGE] & " " & [HOUSE_NUMBER_RANGE_SUFFIX] & " " & [FULL_STREET_NAME] & " " & [SPECIAL_CONDITION]
- 2. Dept of Building permit types
 - a. NB: New building, construction of new structures
 - b. ALT1: Major alterations that will change use, egress, or occupancy
 - c. ALT2: Multiple types of work not affecting use, egress, or occupancy
 - d. ALT3: One minor type of work not affecting use, egress, or occupancy
- 3. Get rid of "Click to add new row" in ArcGIS Pro tables
 - a. Options Application- Table (check) "Hide the 'Click to add new row' option for feature class tables"