NYC_Flatiron_Streetspace_CityGML_LOD2 – Metadata

The feature role of each street space object is either ‘TrafficArea’ or ‘AuxiliaryTrafficArea’. Every object is member of a specific object class. In order to express affiliations to ‘Top Level Features’ each object is also linked to superordinated Road, Square, or Track objects.

Top Level Feature	**Object class**	**Feature role**
Road	Roadbed, Row Sidewalk, Parking Lot Entrance, Intersection Median Painted, Median Raised, Curb	TrafficArea AuxiliaryTrafficArea
Square	Plaza, Parking Lot Curb, Sidewalk	TrafficArea AuxiliaryTrafficArea
Track	Interior Sidewalk	TrafficArea

Common attributes for all objects:

CityGML-Attribute	**Values**	**Meaning**
citygml_class		class code (origin: Planimetric Database)
citygml_creationDate	YYYY-MM-DD	
citygml_feature_role	TraffficaArea / AuxiliaryTrafficArea	
citygml_level_of_detail	2	
citygml_target_uri	http://www.opengis.net/citygml/transportation/2.0	
externalReference{0}.externalObject.name		object id in data source
externalReference{0}.informationSystem		data source
gml_id	id_xxx	unique id
gml_parent_id	ID of corresponding Top-Level-Feature	

AuxiliaryTrafficArea:

- **Curb**

CityGML-Attribute	Values	Meaning
citygml_function{0}	1220	kerbstone
citygml_surfaceMaterial	9999	unknown
curb_area_sqm		area in m^2
curb_height_inch	6	height in inch
curb_height_meter	0.1524	height in meter
curb_volume_cubicmeter		volume in m^3
gml_name	street name	

- **Median Painted (Road markings)**

CityGML-Attribute	Values	Meaning
citygml_function{0}	11	road marking
citygml_surfaceMaterial	9999	unknown
gml_name	street name	
median_area_sqm		area in m^2
snow_priority		

- **Median Raised (Traffic islands)**

CityGML-Attribute	Values	Meaning
citygml_function{0}	1300	traffic island
citygml_surfaceMaterial	9999	unknown
gml_name	street name	
median_area_sqm		area in m^2
median_height_inch	12	height in Inch
median_height_meter	0.3048	height in meter
median_volume_cubicmeter		volume in m^3

Traffic Area:

- **Parking Lot**

CityGML-Attribute	Values	Meaning
citygml_function{0}	6	car park
citygml_usage{0}	2	car
citygml_surfaceMaterial	9999	unknown
gml_name	Parking Lot	
parking_lot_area_sqm		area in m^2
parking_lot_entrance_street_names	street names	entrance street names

- **Plaza**

CityGML-Attribute	Values	Meaning
citygml_function{0}	5	square
citygml_usage{0}	1	pedestrian
citygml_surfaceMaterial	9999	unknown
gml_name	Plaza	
plaza_area_sqm		area in m^2
plaza_height_inch	6	height in inch
plaza_height_meter	0.1524	height in meter
plaza_volume_cubicmeter		volume in m^3

- **Parking Lot Entrance**

CityGML-Attribute	Values	Meaning
citygml_function{0}	6	car park
citygml_function{1}	1	footpath
citygml_function{2}	2	road
citygml_usage{0}	2	car
citygml_usage{1}	1	pedestrian
citygml_surfaceMaterial	9999	unknown
gml_name	street name	

- **Intersection**

CityGML-Attribute	Values	Meaning
citygml_function{0}	1	road
citygml_usage{0}	2	car
citygml_surfaceMaterial	9999	unknown
gml_name{n}	n = 0-10 / street names	intersecting street names
intersecting_segments_count		number intersecting segments
intersecting_segmentIDs_conc	segment_id	segment ids
intersecting_street_names_conc	street names concatenated	
intersection_area_sqm		area in m^2
snow_priority		

- **Row_Sidewalk (Sidewalks along streets)**

CityGML-Attribute	Values	Meaning
citygml_function{0}	2	footpath
citygml_usage{0}	1	pedestrian
citygml_surfaceMaterial	9999	unknown
gml_name	street name	
sidewalk_area_sqm		
sidewalk_height_inch	6	height in inch
sidewalk_height_meter	0.1524	height in m^2
sidewalk_volume_cubicmeter		height in m^3

- **Interior_Sidewalk (Paths)**

CityGML-Attribute	Values	Meaning
citygml_function{0}	2	footpath
citygml_usage{0}	1	pedestrian
citygml_surfaceMaterial	9999	unknown
gml_name	Sidewalk	
sidewalk_height_inch	0	height in inch
sidewalk_height_meter	0	height in m^2

- **Roadbed**

CityGML-Attribute	Values	Meaning
citygml_function{0}	1	road
citygml_usage{0}	2	car
citygml_surfaceMaterial	9999	unknown
construction_status	*	
curve_flag	*	
face_code	*	
gml_name	street name	
level_end_segment	**	
level_start_segment	**	
number_parking_lanes		
number_total_lanes		
number_travel_lanes		
physical_id	*	
radius_arc	*	
segment_count	*	
sanitation_district_boundary	*	
slope_percent		
snow_priority	*	
street_pavement_rating_date	YYYYDDMM	
street_pavement_rating_num	0-10 (0 very bad / 10 very good)	
street_pavement_rating	Good / Fair / Bad	
street_speed_limit_mph		in mph
street_speed_limit_km_h		in km/h

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