

UNIFORM CODE COMPLIANCE REVIEW CHECKLIST

Project Title, Facility Name and Address: 441 Third Street Roof Replacement Niagara Falls, New York 14301	Building Name/No.: 441 Third St.	Client: USA Niagara Development Corporation 222 1st St., #7 Niagara Falls, NY 14303	Date: 09/21/2023												
Estimated Project Cost: Building: N/A TOTAL: N/A		Architect / Engineer: Popli Design Group / The LiRo Group													
Project Type: (Check all that apply.) <input type="checkbox"/> New Building <input checked="" type="checkbox"/> Existing Building – Refer to EXISTING BUILDING CODE section.															
Work Involved: (Check all that apply.) <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> General Construction</td> <td><input checked="" type="checkbox"/> Structural</td> <td><input type="checkbox"/> Site Work</td> </tr> <tr> <td><input checked="" type="checkbox"/> Roofing</td> <td><input type="checkbox"/> Mechanical</td> <td><input type="checkbox"/> Sprinklers</td> </tr> <tr> <td><input checked="" type="checkbox"/> Asbestos Abatement</td> <td><input type="checkbox"/> Plumbing</td> <td><input type="checkbox"/> Elevators</td> </tr> <tr> <td><input type="checkbox"/> Fire Alarm</td> <td><input type="checkbox"/> Electrical</td> <td><input type="checkbox"/> Other:</td> </tr> </table>				<input checked="" type="checkbox"/> General Construction	<input checked="" type="checkbox"/> Structural	<input type="checkbox"/> Site Work	<input checked="" type="checkbox"/> Roofing	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Sprinklers	<input checked="" type="checkbox"/> Asbestos Abatement	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Elevators	<input type="checkbox"/> Fire Alarm	<input type="checkbox"/> Electrical	<input type="checkbox"/> Other:
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Code Enforcement Jurisdiction: City of Niagara Falls, USA	DOS Variance Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Occupancy Classification (Chapter 3): Assembly A-2 Construction Classification (Chapter 6): Type III-B													

2020 EXISTING BUILDING CODE OF NEW YORK STATE

<p>101.2 Scope. The provisions of this code shall apply to the repair, alteration, change of occupancy, addition to and relocation of existing buildings. (See 101.2 from the 2020 Existing Building Code of New York State for exceptions.)</p> <p>302.3 Additional codes. Alterations, repairs, additions and changes of occupancy to, or relocation of, existing buildings and structures shall comply with the provisions for alterations, repairs, additions and changes of occupancy or relocation, respectively, in this code and the Energy Conservation Construction Code of New York State, Fire Code of New York State, Fuel Gas Code of New York State, Mechanical Code of New York State, Plumbing Code of New York State, Property Maintenance Code of New York State, Residential Code of New York State and NFPA 70. Where provisions of the other codes conflict with provisions of this code, the provisions of this code shall take precedence.</p>									
<input type="checkbox"/> Building not previously occupied (Section 101.4.1) A building or portion of a building that has not been previously occupied or used for its intended purpose shall comply with the provisions of this code for new construction.	<p style="text-align: center;">Permit required for Demolition Work. Reference: 2020 Existing Building Code of New York State, Section 105.2 Building Permits.</p>								
<p>Chapter 3: Buildings and structures must satisfy <u>Provisions for all Compliance Methods</u>. Additionally, this project utilizes the: (Check one.)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Chapter 4: Repairs</td> <td><input checked="" type="checkbox"/> Chapter 6-12: Work area compliance method</td> </tr> <tr> <td><input type="checkbox"/> Chapter 5: Prescriptive compliance method</td> <td><input type="checkbox"/> Chapter 13: Performance compliance method (Provide evaluation with this review, see Table 1301.7).</td> </tr> </table>		<input type="checkbox"/> Chapter 4: Repairs	<input checked="" type="checkbox"/> Chapter 6-12: Work area compliance method	<input type="checkbox"/> Chapter 5: Prescriptive compliance method	<input type="checkbox"/> Chapter 13: Performance compliance method (Provide evaluation with this review, see Table 1301.7).				
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<p>Chapter 6 Classification of Work – Refer to Chapters 7, 8, 9, 10, 11, 12 and 14 for detailed scope for each classification. (Check any and all that apply.)</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Repairs</td> <td><input checked="" type="checkbox"/> Alteration Level 1</td> <td><input type="checkbox"/> Alteration Level 2</td> <td><input type="checkbox"/> Alteration Level 3</td> </tr> <tr> <td><input type="checkbox"/> Change of Occupancy</td> <td><input type="checkbox"/> Addition</td> <td><input type="checkbox"/> Relocation</td> <td><input type="checkbox"/> Historic</td> </tr> </table>		<input type="checkbox"/> Repairs	<input checked="" type="checkbox"/> Alteration Level 1	<input type="checkbox"/> Alteration Level 2	<input type="checkbox"/> Alteration Level 3	<input type="checkbox"/> Change of Occupancy	<input type="checkbox"/> Addition	<input type="checkbox"/> Relocation	<input type="checkbox"/> Historic
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<p>OTHER: Confirm the accompanying Construction Documents clearly illustrate conformance to:</p> <p style="padding-left: 20px;">Section 707, 810, 907, and / or 1107 – Energy Conservation and Sections 502.7, 503.15, 804 and 1105 carbon monoxide alarms and detectors.</p>									

LEGEND

N/A: Not Applicable, **NP:** Not Permitted, **NR:** Not Required

BC: Building Code; **EBC:** Existing Building Code; **FC:** Fire Code; **PC:** Plumbing Code; **MC:** Mechanical Code; **FGC:** Fuel Gas Code; **ECCC:** Energy Conservation Construction Code

2020 BUILDING CODE OF NEW YORK STATE				
No.	Topic	Section	Req'd or Allowed	Actual
Building Code				
1	High Rise Buildings	BC 403		
	Automatic Sprinkler System	BC 403.3, EBC 803.2.1 / 904.1	NR	N/A
	Emergency Systems	BC 403.4	NR	N/A
	Fire Alarm System	BC 403.4.2	NR	N/A
	Standby and Emergency Power	BC 403.4.8	NR	N/A
2	Atriums	BC 404		
	Sprinkler Protection	BC 404.3	NR	N/A
	Smoke Control	BC 404.5	NR	N/A
	Enclosure of Atriums	BC 404.6	NR	N/A
	Standby Power	BC 404.7	NR	N/A
	Exit Travel Distance	BC 404.9 - 404.10	NR	N/A
3	Control Areas	BC 414.2	NR	N/A
4	Building Heights and Areas	BC 501	Group A-2, non-sprinklered, Type IIIB	
	<i>Tabular Values</i>	Table 504.3, Table 504.4, Table 506.2	Height = 55 ft Stories = 2 Area = 9,500 SF	Existing Height = ± 30'-10" Existing Stories = 2 Existing Area = ± 9,246 SF
	Allowable Height	BC 504	Sprinkler Increase: Max. Height = H + 20 ft Max. Stories = S + 1	Non-sprinklered, increase not taken Max. Height = <u> N/A </u> Max. Stories = <u> N/A </u>
	Allowable Floor Area	BC 506.3	Frontage Increase: F = Frontage P = Bldg. Perimeter F / P W = Avg. Width $I_f = (F/P - 0.25) \times W / 30$ Min 20' Max 30' Sprinkler Increase: Multi-Story, Is = 300% Single-Story, Is = 200% Allowable Area: $A_a = \{A_t + [A_t \times I_f] + [A_t \times I_s]\}$	Exist. complies, increase not taken F = <u> N/A </u> P = <u> N/A </u> F / P = <u> N/A </u> W = <u> N/A </u> $I_f =$ <u> N/A </u> Is = <u> N/A </u> % Aa = <u> N/A </u> SF
5	Mixed Use and Occupancy	BC 508.1, EBC 1301.6.16	NR – No mixed use.	N/A
	Non-separated Occupancies	BC 508.3	NR	N/A
	Separated Occupancies	BC 508.4	NR	N/A
6	Incidental Use Areas	BC 509.1, EBC 1301.6.19	NR	N/A

	Non-separated Occupancies	BC 508.3	NR	N/A																														
7	Type of Construction	BC 601/602		Existing Building - Type IIIB (Noncombustible Exterior Walls, Unprotected)																														
	Fire Resistance Rating Requirements	BC 601 Table 601	<table border="0"> <tr> <td><u>Element</u></td> <td><u>Rating</u></td> <td></td> </tr> <tr> <td>Structural Frame</td> <td>0 Hrs</td> <td>N/A - Existing</td> </tr> <tr> <td colspan="3">Bearing Walls</td> </tr> <tr> <td>Exterior</td> <td>2 Hrs.</td> <td>N/A - Existing</td> </tr> <tr> <td>Interior</td> <td>0 Hrs.</td> <td>N/A - Existing</td> </tr> <tr> <td colspan="3">Non-bearing Walls and Partitions</td> </tr> <tr> <td>Exterior</td> <td>*</td> <td>See below. N/A - Existing</td> </tr> <tr> <td>Interior</td> <td>0 Hrs.</td> <td>N/A - Existing</td> </tr> <tr> <td>Floor Construction</td> <td>0 Hrs.</td> <td>N/A - Existing</td> </tr> <tr> <td>Roof Construction</td> <td>0 Hrs.</td> <td>0 Hr. provided</td> </tr> </table>	<u>Element</u>	<u>Rating</u>		Structural Frame	0 Hrs	N/A - Existing	Bearing Walls			Exterior	2 Hrs.	N/A - Existing	Interior	0 Hrs.	N/A - Existing	Non-bearing Walls and Partitions			Exterior	*	See below. N/A - Existing	Interior	0 Hrs.	N/A - Existing	Floor Construction	0 Hrs.	N/A - Existing	Roof Construction	0 Hrs.	0 Hr. provided	
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8	Fire and Smoke Protection	BC 701.1																																
	Exterior Wall – Allowable Area of Openings	BC 705.8.1	<table border="0"> <tr> <td colspan="2">Unprotected, Non-sprinklered</td> <td></td> </tr> <tr> <td><u>Distance</u></td> <td><u>Limit</u></td> <td></td> </tr> <tr> <td>0 to less than 3</td> <td>Not Permitted</td> <td>N/A - Existing</td> </tr> <tr> <td>3 to less than 5</td> <td>Not Permitted</td> <td></td> </tr> <tr> <td>5 to less than 10</td> <td>10%</td> <td></td> </tr> <tr> <td>10 to less than 15</td> <td>15%</td> <td></td> </tr> <tr> <td>15 to less than 20</td> <td>25%</td> <td></td> </tr> <tr> <td>20 to less than 25</td> <td>45%</td> <td></td> </tr> <tr> <td>25 to less than 30</td> <td>70%</td> <td></td> </tr> <tr> <td>30' or greater</td> <td>No Limit</td> <td></td> </tr> </table>	Unprotected, Non-sprinklered			<u>Distance</u>	<u>Limit</u>		0 to less than 3	Not Permitted	N/A - Existing	3 to less than 5	Not Permitted		5 to less than 10	10%		10 to less than 15	15%		15 to less than 20	25%		20 to less than 25	45%		25 to less than 30	70%		30' or greater	No Limit		
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	Protected Openings	BC 705.8.2	Comply with Section 716	N/A																														
	Unprotected Openings	BC 705.8.3	Windows and doors may be of any approved material.	N/A																														
	Exterior Wall – Vertical Separation of Openings	BC 705.8.5	NR for buildings < 3 stories	N/A																														
	Parapets	BC 705.11	2-Hr. rating required	N/A - Existing																														
	Fire Walls	BC 706	3-Hr. rating required	N/A - Existing																														
	Fire Barriers	BC 707	2-Hr. rating required	N/A																														
	Fire Partitions	BC 708	1-Hr. rating required	N/A																														
	Smoke Barriers	BC 709	1-Hr. rating required	N/A																														
	Smoke Partitions	BC 710	Extend from the top of foundation or floor below to the underside of the floor or roof sheathing, deck, slab or ceiling above.	N/A																														
	Floor and Roof Assemblies	BC 711	<p>Assemblies shall be of materials permitted by the building type of construction.</p> <p>Type IIIB Floor Assemblies: 0 Hr. required Roof Assemblies: 0 Hr. required</p>	Type IIIB Floor assemblies: N/A – Existing Roof assemblies: 0 Hr. Provided																														
	Vertical Openings	BC 712	NR	N/A																														
	Shaft Enclosures	BC 713	NR	N/A																														
	Penetrations	BC 714	Penetrations into or through fire walls, fire barriers, smoke barrier	N/A																														

			walls and fire partitions shall comply with 714.4.1 through 714.4.3.																								
	Fire Resistive Joint Systems	BC 715	NR	N/A																							
	Opening Protectives	BC 716	NR	N/A																							
	Ducts and Air Transfer Openings	BC 717	NR	N/A																							
	Concealed Spaces	BC 718	NR	N/A																							
9	Interior Finishes	BC 801.1, EBC 702.1/ 802.4/ 903.3	Group A-2, Non-sprinklered																								
	Wall and Ceiling: Exits	BC 803.13	Class A Minimum	N/A - Existing																							
	Wall and Ceiling: Exit Access	BC 803.13	Class A Minimum	N/A - Existing																							
	Wall and Ceiling: Rooms	BC 803.13	Class B Minimum	N/A - Existing																							
	Floors	BC 804	Class II Minimum	N/A - Existing																							
10	Fire Protection Systems	BC 901.1, EBC 703/ 803/ 904	NR - Alterations done shall maintain the level of fire protection provided.	N/A – Existing non-sprinklered building. Alterations maintain the level of fire protection currently provided.																							
	Sprinkler System	BC 903	NR	N/A																							
	Alt. Fire Extgh. System	BC 904	NR	N/A																							
	Standpipe System	BC 905	NR	N/A																							
	Portable Fire Extinguishers	BC 906	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Hazard</th> </tr> <tr> <th>Low</th> <th>Moderate</th> <th>High</th> </tr> </thead> <tbody> <tr> <td>Min Rating</td> <td>2A</td> <td>2A</td> <td>2A</td> </tr> <tr> <td>Max Area/A</td> <td>3,000</td> <td>1,500</td> <td>1,000</td> </tr> <tr> <td>Max Ext. Area</td> <td>11,250</td> <td>11,250</td> <td>11,250</td> </tr> <tr> <td>Max Travel Dist</td> <td>75 ft</td> <td>75 ft</td> <td>75 ft</td> </tr> </tbody> </table>		Hazard			Low	Moderate	High	Min Rating	2A	2A	2A	Max Area/A	3,000	1,500	1,000	Max Ext. Area	11,250	11,250	11,250	Max Travel Dist	75 ft	75 ft	75 ft	N/A
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	Fire Alarm & Detection System	BC 907	NR	N/A																							
	Smoke Detection	BC 907.2.10.7	NR	N/A																							
	Smoke Control	BC 909	NR	N/A																							
	Smoke-proof Enclosure	BC 909.20	NR	N/A																							
	Fire Command Center	BC 911	NR	N/A																							
11	Means of Egress	BC 1001.1, EBC 704/ 805/ 905	NR – Alterations shall be done in a manner that maintains the level of protection provided.	N/A – Existing means of egress to remain. Alterations maintain the level of protection currently provided.																							
	Occupant Load	BC 1004.5	Calculate per Table 1004.5	N/A																							
	Egress Width	BC 1005	Stairways – 0.3” per occupant Other – 0.2” per occupant	N/A N/A																							
	Number of Exits	BC 1006 Table 1006.2.1	<u>Egress From Spaces:</u> Two exits required if values exceed the following: <ul style="list-style-type: none"> • Max. OL = 49 • Max. egress distance = 75 ft (non-sprinklered) 	N/A																							

		Table 1006.3.2	<u>Egress From Stories:</u> <ul style="list-style-type: none"> • OL < 500, min. 2 exits • OL 501-1,000, min. 3 exits • OL > 1,000, min. 4 exits 	N/A
		Table 1006.3.3(2)	<u>Stories with One Exit:</u> <ul style="list-style-type: none"> • Max OL = 49, Max travel distance = 75 ft. 	N/A
	Means of Egress Illumination	BC 1008	Means of egress serving a room or space shall be illuminated at all times that the room or space is occupied.	N/A
	Accessible Means of Egress	BC 1009	NR	N/A
	Areas of Refuge	BC 1009.6	NR	N/A
	Panic and Fire Exit Hardware	BC 1010.1.10	NR	N/A
	Riser Height and Tread Depth	BC 1011.5.2	Riser height: 7" max and 4" min. Tread depth: 11" min.	N/A
	Handrails	BC 1011.11	Comply with section 1014	N/A
	Ramps	BC 1012.1	NR	N/A
	Exit Signs	BC 1013.1	Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel.	N/A
	Guards	BC 1015	NR	N/A
	Egress Through Intervening Spaces	BC 1016.2	NR	N/A
	Corridor Fire-Resistance Rating	BC 1020.1	NR	N/A.
	Width and Capacity	BC 1020.2	44" minimum	N/A
	Dead Ends	BC 1020.4	20 feet maximum	N/A
	Exit Fire Rating	BC 1023.2	NR	N/A
	Smoke-proof Enclosure	BC 1023.11	NR	N/A
	Horizontal Exits	BC 1026	NR	N/A
	Exterior Exit Stairways and Ramps	BC 1027	NR	N/A
	Assembly	BC 1029	NR	N/A
	Common Path of Egress Travel	BC 1029.8	NR	N/A
12	Accessibility	BC Chapter 11 / EBC 305	A facility that is altered shall comply with the applicable provisions in Chapter 11 of the BCNYS.	305.6 Exception 1 – The altered element or space is not required to be on an accessible route.
	Accessible Route	BC 1104.1/1104.2	At least 1 accessible route shall be provided from accessible site area(s) to the accessible building entrance.	N/A
	Accessible Entrance	BC 1105	At least 60% of public entrances shall be accessible, EXCEPT to areas that are not accessible.	N/A
	Parking	BC 1106	When parking is provided, accessible parking spaces shall be provided. <u>Per Table 1106.1:</u>	N/A
			Total	No. of

			<u>Parking</u> 1 – 25	<u>Acc. Sp. Req'd.</u> 1	
	Dwelling/Sleeping Units	BC 1107	NR		N/A
	Toilet Rooms	BC 1109.2	Each toilet room shall be accessible.		N/A
		BC 1109.2.2	At least 5% of WC shall be accessible.		N/A
		BC 1109.2.3	At least 5% of LAVs, but not less than 1, shall be accessible.		N/A
	Drinking Fountains	BC 1109.5	Not fewer than two drinking fountains shall be provided.		N/A
13	Interior Environment				
	Ventilation	BC 1202	Natural ventilation at 4% of floor area, or mechanical ventilation per MCNYS.		N/A
	Lighting	BC 1204.2/ 1204.3	Natural light (min. 8% of floor area) or artificial light of 10 fc average.		N/A
	Interior Space Dimensions – Ceiling Heights	BC 1208.2, EBC 801.3	Occupiable spaces and corridors: 7'-6" min. (7'-0" min. at existing spaces) Toilets, Kitchens, and Storage: 7'-0" min.		N/A
14	Energy Conservation	BC 1301 / EBC 707/ 810/ 907	Level 1 Alterations shall comply to the ECCC as they relate to new construction only.		Alterations comply with ECCCNY. <u>Climate Zone 5A:</u> R-30ci provided at roofs where insulation is entirely above roof deck.
15	Exterior Wall	BC 1401	NR		N/A - Existing
	Weather Protection	BC 1402.2	NR		N/A
	Vapor Retarders	BC 1404.3	NR		N/A
	Flashing	BC 1404.4	Required at all penetrations in exterior wall systems.		N/A
	Combustible Materials	BC 1405	NR		N/A
16	Roof Assemblies	BC 1501 / EBC 705			
	Roof Drainage	BC 1502 / EBC 705.1	Materials and methods of application used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15 of the BCNYS		Complies w/ exceptions noted below.
	Secondary Drainage	BC 1502.2	Required where roof drains are required.		Existing to remain. <u>EBC 705.1 Exception 2 –</u> Not required for roofs that provide for positive drainage.
	Scuppers	BC 1502.3	Opening dimension of 4" min.		4" min. provided.
	Gutters	BC 1502.4	Gutters and leaders placed on the outside of buildings shall be of noncombustible material or not less than Schedule 40 plastic pipe.		Aluminum gutters provided
	Flashing	BC 1503.2	Flashing shall be installed in such a manner so as to prevent water from entering the wall and roof.		Flashing provided at all intersections, joints and openings as shown on the drawings.
	Coping	BC 1503.3	Required at parapet walls and shall be of noncombustible, weatherproof material not less than the thickness of the parapet.		Pre-finished sloped aluminum coping provided to cover entire width of existing parapet wall.

	Attic and Rafter Ventilation	BC 1503.4	NR	N/A
	Crickets and Saddles	BC 1503.5	Installed on the ridge side of any chimney or penetration greater than 30 inches wide measured perpendicular to the slope and shall be made of sheet metal or of the same material as the roof covering.	Cricket roofs and Saddles provided at locations required and shown on drawings. Cricket covering material complies.
	Wind Resistance of Roofs	BC 1504.1	Asphalt shingles: Class G or H (ASTM D7158) Single-ply roof systems shall be tested in accordance with FM 4474, UL 580 or UL 1897.	Complies
	Fire Classification	BC 1505.1	Construction Type IIB: Class C minimum.	Complies
	Roof Covering	BC 1507		
	Underlayment Types	BC 1507.1.1	ASTM D226 Type I or II	Complies
	Asphalt Shingles	BC 1507.2	Fastened to solidly sheathed decks. Comply with ASTM D3462. Minimum slope of two units vertical in 12 units horizontal.	Complies
	Thermoplastic Single-ply Roofing	BC 1507.13	Comply with ASTM D4434, D6754 or D6878. Minimum design slope of one-fourth unit vertical in 12 units horizontal. (2-percent slope)	Complies. Portions of existing roof slope to remain. EBC 705.1 Exception 2 – Roof replacement or roof recover of existing low-sloped coverings shall not be required to meet the minimum design slope requirement for roofs that provide positive roof drainage.
	Roof Insulation	BC 1508	Above-deck insulation shall be of an approved roof covering that passes NFPA 276 or UL 1256.	Complies Polyisocyanurate board – ASTM C1289, Type I or II

17 Structural Requirements and Documentation BC 1603.1, EBC 405/ 706/ 806/ 906																																																										
Topic	Information required	Designer documentation	Required/Local conditions																																																							
BC 1603.1.1 Floor live load	Uniformly distributed / concentrated	100 PSF	Table 1607.1	100 PSF (Other assembly areas)																																																						
BC 1603.1.2 Roof live load		20 PSF	Table 1607.1	20 PSF																																																						
BC 1603.1.3 Roof snow load data	Ground snow P_g Flat roof $P_f = 0.7 P_f C_e I C_t$ Exposure C_e Importance I Thermal C_t	$P_g = 50$ PSF $P_f = 34.65$ PSF (Roofs A & B) 31.50 PSF (Roofs C, D, & E) $C_e = 0.9$ $I = 1.00$ $C_t = 1.1$ (Roofs A & B) 1.0 (Roofs C, D, & E)	Fig 1608.2 ASCE 7 Sec. 7.3 Table 7-2 Table 7-4 Table 7-3	50 PSF $C_e = 0.9$ $I = 1.00$ $C_t = 1.1 / 1.0$																																																						
BC 1603.1.4 Wind design data	Wind speed Risk Category Exposure Internal pressure	$V = 110$ MPH II B +/-0.18	Fig 1609.3(2) Tab 1604.5 1609.4	$V = 110$ MPH II B																																																						
BC 1603.1.5 Earthquake design data	Risk Category	Risk Category II	Table 1604.5: II																																																							
	Importance Factor I	$I = 1.0$	Zip: 14301 $S_s = 0.156$ $S_1 = 0.044$																																																							
	S_s and S_1	$S_s = 0.156$; $S_1 = 0.044$	SDC per Tab's 1613.5.6 (1)&(2) Completed by CEO																																																							
	Soils/Site Class	Site Class D (Assumed)	<table border="1"> <thead> <tr> <th rowspan="2">Site</th> <th rowspan="2">S_{ds} S_{d1}</th> <th colspan="3">SDC</th> </tr> <tr> <th>I&II</th> <th>III</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td rowspan="2">A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">B</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">C</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">D</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">E</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Site	S_{ds} S_{d1}	SDC			I&II	III	IV	A									B									C									D									E								
	Site	S_{ds} S_{d1}	SDC																																																							
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S_{ds} and S_{d1}	$S_{ds} = 0.166$; $S_{d1} = 0.070$																																																									
Seismic Design Cat'y	SDC = B																																																									
Force resisting system	N/A – Existing																																																									
Design base shear	N/A – Existing																																																									
Response coef't, C_S	N/A – Existing																																																									
Response factor(s), R	N/A – Existing																																																									
Analysis procedure	N/A - Existing																																																									
BC 1603.1.6 Geotech Data	Design load bearing value of soil	N/A	N/A																																																							
BC 1603.1.7 Flood loads (BC 1612.4)	Flood Hazard Y/N	No Ref FEMA Map No. 36063C0310F	Property/site is in Zone X (area of minimal flood hazard).																																																							
	High velocity wave Y/N	No																																																								
BC 1603.1.8 Special loads	List loads and applicable code sections	N/A	N/A																																																							
BC 1705.12 Special Inspections (Seismic)	Submittal Required FOR: SDC \geq C Resisting Sys SDC \geq D Designated Sys SDC \geq C Components	N/A N/A N/A	N/A N/A N/A																																																							

No.	Topic	Section	Req'd or Allowed	Actual
18	Electrical	BC 2701, EBC 406/607/ 807/ 1007		
	Emergency and Standby Power	BC 2702	Emergency power required for: <ul style="list-style-type: none"> • Ambulatory care facilities • Elevators and lifts • Emergency responder radio • Emergency voice/ alarm • Exhaust systems • Exit signs • Gas detection systems • Group I-2 • Group I-3 • Hazardous materials • High-rise buildings • Laboratory suites • Egress illumination • Membrane structures • Semiconductor facilities • Smoke control systems • Special purpose doors • Underground buildings • Exhaust ventilation systems 	N/A
	Elevators and Platform Lifts	BC 2702.2.2	Provide as required by BC 1009.4.1, 1009.5, 3003.1, 3007.8, 3008.8	N/A
	Exit Signs	BC 2702.2.6	Provide as required by B-1013.6.3	N/A
	Gas Detection System	BC 2702.2.7	Provide as required by FCNYS	N/A
	High Rise Building	BC 2702.2.11	Provide as required by BC 403.4.8	N/A
	Means of Egress Illumination	BC 2702.2.13	Provide as required by BC 1008.3 System duration ≥ 90 minutes.	N/A
	Smoke Control Systems	BC 2702.2.16	Provide as required by BC 404.7, 909.11, 909.20.6.2, 909.21.5	N/A
2020 MECHANICAL CODE OF NEW YORK STATE				
1	Mechanical Systems	BC 2801.1, EBC 407/ 707.1/ 808/ 1008	Comply with IMC and IFGC	N/A
	Ducts and Air Transfer Openings	BC 717/ 717.5	Dampers required at: <ul style="list-style-type: none"> • Fire walls • Fire barriers • Shaft enclosures • Fire partitions • Smoke barriers • Exterior walls • Smoke partitions <u>Required Ratings:</u> <ul style="list-style-type: none"> • Fire dampers: • Smoke dampers: • Comb. fire/smoke: • Corridor dampers: 	N/A
	Smoke Detection Control	MC 606.1	Smoke detectors shall be provided with the following: <ul style="list-style-type: none"> • Return air systems > 2,000 cfm <ul style="list-style-type: none"> ○ Exception: Not required if area smoke detectors 	N/A

			<ul style="list-style-type: none"> connected to FA system • Common supply/return systems > 2,000 cfm combined <ul style="list-style-type: none"> ○ Exception: Not required if individual capacity < 2,000 cfm • Return air risers > 15,000 cfm 	
	Combustion Air	MC 701.1, FGC 304.1	Air for combustion, ventilation and dilution of flue gasses for appliances installed in buildings shall be provided by application of one of the methods prescribed in Sections FGC 304.5 – 304.9.	N/A
	Chimneys, Flues, and Gas Vents	MC 801.2, BC 2113.1	All fuel-burning appliances shall discharge products of combustion to a vent or chimney, except for appliances vented per MC 804.	N/A
2020 PLUMBING CODE OF NEW YORK STATE				
1	Plumbing	BC 2901.1, EBC 408/ 708.1/ 809/ 1009		
	General Requirements - Pipe Freezing	PC 305.4	<p>Water, soil and waste pipes shall not be installed in places subject to freezing unless adequate insulation and/or heat is provided.</p> <p>Exterior water service shall be 6" min below frost line.</p> <p>Building sewers shall be 42" min. below grade.</p>	N/A
	Fixture Count	BC 2902.1, PC 403	Group A-2 – comply with table 2902.1	N/A
	Maximum Flow and Water Consumption	PC 604.4	Flow rates and consumption for fixtures per Table 604.4	N/A
	Available Street Water Pressure	PC 604.6/ 604.7/ 604.8	Water distribution shall be designed for the minimum pressure available	N/A
	Fixture Units	PC 709.1 Table 709.1	Drainage fixture unit values to estimate demand and pipe size	N/A
	Building Traps	PC 1002.6	Building (House) traps prohibited.	N/A
	Water Supply Materials	PC 602.3, 10 NYCRR	Comply with NYS Department of Health regulations	N/A

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE				
1	Climate Zone	ECCC C301.1	5A	5A
2	Commercial Energy Efficiency	ECCC C401		
	Compliance Path: (check one)			
	<input type="checkbox"/> ASHRAE	ECCC C401.2.1		
	<input type="checkbox"/> Prescriptive Requirements	ECCC C401.2.2		
	<input type="checkbox"/> Performance Requirements	ECCC C401.2.3		
	<input type="checkbox"/> ComCheck	ECCC C407.4		
	<input checked="" type="checkbox"/> Existing Buildings	ECCC C501		
3	Prescriptive Requirements			
	Building Envelope	ECCC C402.1/ C402.2		R30ci min at insulation entirely above roof deck.
	Fenestration	ECCC C402.4		N/A
	Mechanical Systems	ECCC C403		N/A
	Service Water Heating	ECCC C404		N/A
	Lighting and Power	ECCC C405		N/A
	Additional Efficiency	ECCC C406		N/A
4	Performance Requirements			
	Air Leakage	ECCC C402.5		N/A
	Mechanical Systems	ECCC C403.2		N/A
	Service Water Heating	ECCC C404		N/A
	Lighting Controls	ECCC C405.2		N/A
	Interior Lighting Power	ECCC C405.3		N/A
	Exterior Lighting Power	ECCC C405.4		N/A
	Electrical Transformers	ECCC C405.6		N/A
	Building Performance	ECCC C407		N/A
5	Existing Buildings	ECCC C501		
	• Additions	ECCC C502		
	• Alterations	ECCC C503		
	○ General Requirements	ECCC C503.1	Alterations to any building or structure shall comply with the code requirements for new construction. Alterations shall not cause the existing building or structure to become less conforming to the code. Alterations to the existing building, system, or portion thereof shall conform to the code provisions for new construction without requiring unaltered portions to comply with the code.	Complies. Complies. Complies.
	○ Change in Space Conditioning	ECCC C503.2	Nonconditioned or low-energy spaces that are altered to become conditioned space shall be brought into full compliance.	N/A
	○ Building Envelope	ECCC C503.3	Comply with Sections C402.1-C402.5	

	▪ General:	ECCC C402.1	Comply with Sections C402.2, and thermal requirements of C402.1.3, C402.1.4, or C402.1.5	N/A
	<i>Low-energy Buildings</i>	ECCC C402.1.1	Low energy buildings or portions thereof shall be exempt from the building thermal envelope provisions of Section C402 that meet the criteria listed in Sections C402.1.1.1 – C402.1.1.3	N/A
	<i>Equipment Buildings</i>	ECCC C402.1.2	Equipment buildings shall be exempt from the building thermal envelope provisions of the ECCC that meet the criteria listed in Sections C402.1.2.1 – C402.1.2.5	N/A
	<i>Insulation R-value Method</i>	ECCC C402.1.3	Comply with Table C402.1.3	Complies – R30ci. min at insulation entirely above roof deck.
	<i>Assembly Method</i>	ECCC C402.1.4	Comply with Table C402.1.4	N/A
	<i>Performance Alternative</i>	ECCC C402.1.5	Comply with Equation 4-2	N/A
	▪ Specific Envelope Insulation:	ECCC C402.2	Comply with Sections C402.2.1 – C402.2.6 and Table C402.1.3	
	<i>Roof Assembly</i>	ECCC C402.2.1	Comply with Table C402.1.3 Where (2) or more layers of continuous insulation are used in an assembly, they shall be installed per Section C303.2.	Complies - R30ci. min at insulation entirely above roof deck.
	<i>Above-grade Walls</i>	ECCC C402.2.2	Comply with Table C402.1.3.	N/A
	<i>Floors</i>	ECCC C402.2.3	Comply with Table C402.1.3 or C402.1.4.	N/A
	<i>Slabs-on-Grade</i>	ECCC C402.2.4	Comply with Table C402.1.3	N/A
	<i>Below-grade Walls</i>	ECCC C402.2.5	Comply with Table C402.1.4	N/A
	<i>Radiant Heat Systems</i>	ECCC C402.2.6	R-3.5 on all surfaces not facing the heated space.	N/A
	<i>Airspaces</i>	ECCC C402.2.7	Comply with Section C401.2	N/A
	▪ Roof Solar Reflectance	ECCC C402.3	Low-sloped roofs in Climate Zones 1 – 3 comply with Table C402.3.	N/A
	▪ Fenestration	ECCC C402.4	Comply with Sections C402.4.1 – C402.4.5 and Table C402.4.	
	<i>Maximum Area</i>	ECCC C402.4.1	Vertical Fenestration: < 30% of gross above-grade wall area.	N/A
	<i>Minimum Skylight</i>	ECCC C402.4.2	Skylights required for enclosed spaces > 2,500 SF and at least 75% ceiling height > 15 feet, for indicated uses, and shall provide one of the following: <ul style="list-style-type: none"> • Daylight zone > 1/2 floor area • Skylight area to daylight zone > 3% and VT > 0.40. • Effective Aperture > 1% 	N/A
	<i>Maximum U-factor and SHGC</i>	ECCC C402.4.3	Comply with Table C402.4	N/A
	<i>Daylight Zones</i>	ECCC C402.4.4	Daylight Zones referenced in Sections C402.4.1.1 –	N/A

			C402.4.3.2 shall comply with Sections C405.2.3.2 and C405.2.3.3 as applicable	
	<i>Doors</i>	ECCC C402.4.5	Comply with Tables C402.1.3 and C402.1.4 as applicable.	N/A
	▪ <i>Air Leakage</i>	ECCC C402.5	Comply with Sections C402.5.1 – C402.5.8	N/A
	<i>Air Barriers</i>	ECCC C402.5.1	Continuous air barrier located inside or outside of the building envelope.	N/A
	<i>Air Leakage</i>	ECCC C402.5.2	Fenestration assemblies shall comply with Table C402.5.2	N/A
	<i>Appliance Rooms</i>	ECCC C402.5.3	Climate Zones 3 – 8: Appliances and combustion air openings for open combustion air ducts serving open combustion space conditioning appliances shall be located outside the thermal envelope or in an isolated, sealed and insulated room.	N/A
	<i>Doors and Openings</i>	ECCC C402.5.4	Doors and access openings from conditioned space to shafts, chutes, stairways, and elevators shall be gasketed and sealed.	N/A
	<i>Air Intakes / Exhaust</i>	ECCC C402.5.5	Stairway enclosures, elevator shaft vents, and other outdoor air intakes and exhaust openings integral to the building envelope shall be provided with dampers.	N/A
	<i>Loading Docks</i>	ECCC C402.5.6	Doors shall be equipped with weatherseals to restrict infiltration.	N/A
	<i>Vestibules</i>	ECCC C402.5.7	Building entrances shall have enclosed vestibules. C402.5.7, Exception 2: Vestibules not required for doors to spaces not intended for public use.	N/A
	<i>Recessed Lighting</i>	ECCC C402.5.8	Recessed luminaires installed in the thermal envelope shall comply with the indicated requirements of Sections C402.5.8.1 – C402.5.8.3	N/A
	○ <i>Heating and Cooling</i>	ECCC C403.4	Comply with Section 403	
	▪ <i>General</i>	ECCC C403.1	Building HVAC systems shall comply with Sections 403.	
	<i>Loads</i>	ECCC C403.1.1	Determine loads per ASHRAE 183.	N/A
	▪ <i>Mandatory Provisions</i>	ECCC C403.2	Building HVAC systems shall comply with Sections 403.2.1 - 403.2.2. and as applicable if addressed in Sections C403.3 – C403.12	
	<i>Zone Isolation</i>	ECCC C403.2.1	HVAC systems serving zones > 25,000 SF in a floor area or that span more than one floor are designed to operate or be occupied nonsimultaneously shall be divided into isolation	N/A

			areas.	
	<i>Ventilation</i>	ECCC C403.2.2	Provided in accordance with Chapter 4 of the MCNYS	N/A
	<ul style="list-style-type: none"> ▪ Heating and Cooling Equipment Efficiencies 	ECCC C403.3	Heating and cooling equipment installed in mechanical systems shall be sized in accordance with Section 403.3.1 and shall not be less efficient in the use of energy than as specified in Section C403.3.2	N/A
	<i>Sizing</i>	ECCC C403.3.1	Size equipment for no more than calculated loads.	N/A
	<i>Performance</i>	ECCC C403.3.2	Comply with minimum efficiency requirements of Tables C403.3.2(1) through C403.3.2(9)	N/A
	<i>Boiler Turndown</i>	ECCC C403.3.4	Boiler systems with design input of greater than 1,000,000 Btu/h shall comply with Table C403.3.4	N/A
	<ul style="list-style-type: none"> ▪ HVAC Controls 	ECCC C403.4	HVAC systems shall be provided with controls in compliance with Sections C403.4.1 through C403.4.5	N/A
	<i>Thermostatic Controls</i>	ECCC C403.4.1	The supply of each zone shall be controlled by individual thermostatic controls as specified.	N/A
	<i>Off-hour Controls</i>	ECCC C403.4.2	Each zone shall be provided with thermostatic setback controls controlled by either an automatic time clock or programmable control system.	N/A
	<i>Hydronic Systems</i>	ECCC C403.4.3	Comply with Sections C403.4.3.1 – C403.4.3.3	N/A
	<i>Part-load Controls</i>	ECCC C403.4.4	Comply with Section C403.4.4	N/A
	<i>Pump Isolation</i>	ECCC C403.4.5	Chilled water plants including >1 chiller shall be capable of and configured to reduce flow automatically through the plant when a chiller is shut down.	N/A
	<ul style="list-style-type: none"> ▪ Energy Recovery 	ECCC C403.7.4	Where supply airflow exceeds Tables 403.7.4(1) & (2) the system shall include energy recovery.	N/A
	<ul style="list-style-type: none"> ▪ Kitchen Exhaust 	ECCC C403.7.5	Replacement air introduced directly into exhaust cavity < 10% hood exhaust airflow.	N/A
	<ul style="list-style-type: none"> ▪ Shutoff Dampers 	ECCC C403.7.7	Outdoor air intake and exhaust openings shall be provided with Class I motorized dampers with an air leakage rate not greater than 4 cfm/ft ²	N/A
	<ul style="list-style-type: none"> ▪ Fans and Fan Controls 	ECCC C403.8	Fans in HVAC systems shall comply with Sections C403.8.1 – C403.8.5.1	N/A
	<ul style="list-style-type: none"> ▪ Heat Rejection Equipment 	ECCC C403.9	Comply with Section 403.9 as applicable.	N/A
	<ul style="list-style-type: none"> ▪ Refrigeration Equipment 	ECCC C403.10	Comply with Tables C403.10.1(1) and (2) in accordance with AHRI 1200.	N/A

	<ul style="list-style-type: none"> Construction of HVAC System Elements 	ECCC C403.11	HVAC elements shall be constructed and insulated in accordance with Sections C403.11.1 – C403.11.3.1.	N/A
	<i>Duct and Plenum Insulation and Sealing</i>	ECCC C403.11.1	Supply and return ducts and plenums shall be insulated with not less than R-6 at unconditioned spaces and R-12 where located outside of the building. Ducts within the building envelope shall be separated from the building exterior or unconditioned spaces by not less than R-12.	N/A
	<i>Duct Construction</i>	ECCC C403.11.2	Ductwork shall be constructed and erected in accordance with the MCNYS	N/A
	<i>Piping Insulation</i>	ECCC C403.11.3, ECCC C403.11.3.1	Piping serving as part of a heating or cooling system shall be thermally insulated in accordance with Table C403.11.3 Piping Insulation exposed to weather shall be protected from damage as listed in Section C403.11.3.1.	N/A
	<i>Mechanical Systems Located Outside of Building Thermal Envelope.</i>	ECCC C403.12	Mechanical systems providing heat outside of the thermal envelope of a building shall comply with Sections C403.12.1 – C403.12.3	N/A
	<ul style="list-style-type: none"> Service Water Heating 	ECCC C404.1	Comply with Section C404	
	<i>Equipment Performance</i>	ECCC C404.2	Comply with Table C404.2	N/A
	<i>Heat Traps</i>	ECCC C404.3	Tanks that have vertical water pipes shall be provided with integral heat traps as specified.	N/A
	<i>Insulation of Piping</i>	ECCC C404.4	Piping shall be insulated to comply with Table C403.11.3	N/A
	<i>Efficient Piping</i>	ECCC C404.5	Comply with Section C404.5.1 or C404.5.2.	N/A
	<i>Circulation Systems</i>	ECCC C404.6	Comply with Sections C404.6.1 – C404.6.3, as applicable.	N/A
	<i>Demand Controls</i>	ECCC C404.7	Comply with the indicated requirements.	N/A
	<i>Drain Water Recovery</i>	ECCC C404.8	Heat recovery units shall comply with CSA B55.2.	N/A
	<i>Pools and Permanent Spas</i>	ECCC C404.9	Energy consumption of pools and spas shall comply with Sections C404.9.1 – C404.9.3.	N/A
	<i>Portable Spas</i>	ECCC C404.10	Energy consumption of portable spas shall comply with APSP 14.	N/A
	<ul style="list-style-type: none"> Lighting Systems 	ECCC 405.1	Comply with Section C405	
	<i>Lighting Controls</i>	ECCC 405.2	Comply with Sections C405.2.1 – C405.2.6.	
	<i>Occupant Sensors</i>	ECCC C405.2.1	Provide occupant sensors at classrooms, conference/meeting rooms, print rooms, lounges, lunch/ break rooms, offices, restrooms, storage	N/A

			rooms, janitor closets, locker rooms, other spaces < 300 FT., and warehouse storage areas.	
	<i>Time Switch</i>	ECCC C405.2.2	Areas not provided with occupant sensor(s) shall have time switch controls in accordance with Section C405.2.2.1.	N/A
	<i>Daylight Controls</i>	ECCC C405.2.3	Daylight controls shall comply with Section C405.2.3.1 at the following spaces: <ul style="list-style-type: none"> > 150W general lighting within sidelight zones. > 150W general lighting within toplight zones. 	N/A
	<i>Application Controls</i>	ECCC C405.2.4	Controls shall be provided for specific applications as indicated.	N/A
	<i>Manual Controls</i>	ECCC C405.2.5	Comply with the requirements indicated.	N/A
	<i>Exterior Controls</i>	ECCC C405.2.6	Comply with Sections C405.2.6.1 through C405.2.6.4	N/A
	▪ Interior Lighting Power	ECCC C405.3	Comply as calculated under Section C405.3.1, but not greater than the allowance calculated under Section C405.3.2	N/A
	▪ Exterior Lighting	ECCC C405.4	Comply as calculated in accordance with Section C405.4.1 but shall not be greater than the allowance calculated in accordance with Section C405.4.2	N/A
	▪ Dwelling Electrical Meter	ECCC C405.5	Each dwelling unit located in a Group R-2 building shall have a separate electrical meter.	N/A
	▪ Electrical Transformers	ECCC C405.6	Comply with the minimum efficiency requirements of Table C405.6.	N/A
	▪ Electrical Motors	ECCC C405.7	Electric motors shall comply with the efficiency requirements of Tables C405.7(1) – C405.7(4)	N/A
	▪ Transportation Systems	ECCC C405.8	Comply with the requirements indicated.	N/A
	▪ Voltage Drop	ECCC C405.9	The total voltage drop across the combination of feeders and branch circuits shall not exceed 5%.	N/A
	• Repairs	ECCC C504.1	Comply with Section C501.3 and C504	N/A
	• Change of Occupancy	ECCC C505.1	Comply with Section C505	N/A