Project Information

2020 NYStretch Energy Code - 2018 IECC Energy Code: 166 S. LIBERTY DRIVE - DEAL #13216 / STORE #2573 Project Title: Project Type:

Construction Site: Designer/Contractor: KLH Engineers 1538 Alexandria Pike Fort Thomas, KY 41075

Allowed Interior Lighting Power

Area Category Floor Area Allowed Allowed Watts (B X C) Watts / ft2 5-HALL 107 (Common Space Types:Corridor/Transition <8 ft wide) 6-OFFICE 102 (Common Space Types:Office - Enclosed) 7-SALES 101B (Retail:Sales Area) 1.06 4-PRE-SALES 106 (Common Space Types:Storage) 1136 1-TOILET 105 (Common Space Types:Restrooms) 0.75 0.75 2-TOILET 104 (Common Space Types:Restrooms) 0.58 3-HALL 103 (Common Space Types:Corridor/Transition <8 ft wide) 1.06 6757 8-SALES 101A (Retail:Sales Area) 6374

Total Allowed Watts = 11733

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
HALL 107 (Common Space Types:Corridor/Transition <8 ft wide 93 sq.ft.) F8-EMB: F8-EMB: 8'0" STRIP LIGHT EMERGENCY LIG: Other:	2	1	36	36
OFFICE 102 (Common Space Types:Office - Enclosed 80 sq.ft.) F8: F8: 8'0" STRIP LIGHT: Other:	2	1	36	36
SALES 101B (Retail:Sales Area 3272 sq.ft.) F8: F8: 8'0" STRIP LIGHT: Other: F8-EMB: F8-EMB: 8'0" STRIP LIGHT EMERGENCY LIG: Other:	2 2	46 6	36 36	1656 216
PRE-SALES 106 (Common Space Types:Storage 1804 sq.ft.) F8: F8: 8'0" STRIP LIGHT: Other:	2	7	36	252
F8-EMB: F8-EMB: 8'0" STRIP LIGHT EMERGENCY LIG: Other: TOILET 105 (Common Space Types:Restrooms 103 sq.ft.) F8-EMB: F8-EMB: 8'0" STRIP LIGHT EMERGENCY LIG: Other:	2	1	36 36	144 36
TOILET 104 (Common Space Types:Restrooms 118 sq.ft.) F8-EMB: F8-EMB: 8'0" STRIP LIGHT EMERGENCY LIG: Other:	2	1	36	36
HALL 103 (Common Space Types:Corridor/Transition <8 ft wide 144 sq.ft.)				

Project Title: 166 S. LIBERTY DRIVE - DEAL #13216 / STORE #2573 Report date: 06/14/22 Data filename: \\klhfs01.klhengrs.com\g\24000-24999\24200-24299\24211\Project Data\Energy\Compliance\ELECTRICAL 2020 NYStretch - 2018 IECC.cck Page 1 of 8

B C D E Lamps/ # of Fixture (C X D) Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast Fixture Fixtures Watt. F8-EMB: F8-EMB: 8'0" STRIP LIGHT EMERGENCY LIG: Other: SALES 101A (Retail:Sales Area 6374 sq.ft.) F8: F8: 8'0" STRIP LIGHT: Other: F8: F8: 8'0" STRIP LIGHT: Other: 1 36 F8-EMB: F8-EMB: 8'0" STRIP LIGHT EMERGENCY LIG: Other: Total Proposed Watts = 5724

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 NYStretch Energy Code - 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: 166 S. LIBERTY DRIVE - DEAL #13216 / STORE #2573 Report date: 06/14/22 Data filename: \\klhfs01.klhengrs.com\g\24000-24999\24200-24299\24211\Project Page 2 of 8 Data\Energy\Compliance\ELECTRICAL 2020 NYStretch - 2018 IECC.cck

Comments/Assumptions

Additional Comments/Assumptions:

Energy Code: 2020 NYStretch Energy Code - 2018 IECC Requirements: 100.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception

is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.10 [PR38] ³	New parking garages and new parking lots powered by the energy services for a building, and with 10 or greater parking spaces, provide either: 1. Panel capacity and conduit for the future installation of minimum 208/240V 40-amp outlets for 5 percent of the total parking spaces and not less than two parking spaces; or 2. Minimum 208/240V 40-amp outlets for 5 percent of the total parking spaces and not less than two parking spaces.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: 166 S. LIBERTY DRIVE - DEAL #13216 / STORE #2573 Report date: 06/14/22 Data filename: \\klhfs01.klhengrs.com\g\24000-24999\24200-24299\24211\Project Data\Energy\Compliance\ELECTRICAL 2020 NYStretch - 2018 IECC.cck Page 3 of 8

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
	Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Lighting that is related to means of egress stairways, ramps, corridors, or emergency routes.
C405.2.1, C405.2.1. 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, corridor/transition areas, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.1. 2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C405.2.1. 3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.		Requirement will be met.
C405.2.2. 1,	Each area not served by occupancy sensors (per C405.2.1) have timeswitch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: 166 S. LIBERTY DRIVE - DEAL #13216 / STORE #2573 Report date: 06/14/22 Data filename: \\klhfs01.klhengrs.com\g\24000-24999\24200-24299\24211\Project Data\Energy\Compliance\ELECTRICAL 2020 NYStretch - 2018 IECC.cck Page 4 of 8

Rough-In Electrical Inspection Complies? Comments/Assumptions & Req.ID C405.2.3, Daylight zones provided with □Complies Exception: Sidelit zones on first floor in Group A-2 and M C405.2.3. individual controls that control the Does Not occupancies. 1, lights independent of general area C405.2.3. lighting within daylight zones in the following spaces: 1. Spaces with a [EL23]2 total of more than 100 watts of general lighting within sidelit zones complying with Section C405.2.3.2. General lighting does not include lighting that is required to have specific application control in accordance with Section C405.2.4. 2 Spaces with a total of more than 100 watts of general lighting within toplit zones complying with Section C405.2.3.3. See code section C405.2.3.1 Daylight responsive control function and section C405.2.4 Separate lighting control devices for Complies Requirement will be met. [EL26]¹ specific uses installed per approved □Does Not lighting plans. ☐Not Observable □Not Applicable ☐Complies C405.2.4 Additional interior lighting power Requirement will be met. [EL27]¹ allowed for special functions per the ☐Does Not approved lighting plans and is ☐Not Observable automatically controlled and □Not Applicable separated from general lighting. C405.3 Exit signs do not exceed 5 watts per Complies [EL6]¹ face. Requirement will be met. □Does Not ☐Not Observable □Not Applicable C405.6 Low-voltage dry-type distribution ☐Complies Requirement will be met. [EL26]² electric transformers meet the □Does Not minimum efficiency requirements of Table C405.6. □Not Applicable C405.7 Electric motors meet the minimum Complies Requirement will be met. [EL27]² efficiency requirements of Tables □Does Not Efficiency verified through certification under an approved certification Not Applicable program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist). C405.8.2 Escalators and moving walks comply Complies Exception: Requirement does not apply. [EL28]² with ASME A17.1/CSA B44 and have ☐Does Not automatic controls configured to

Not Observable reduce speed to the minimum permitted speed in accordance with Not Applicable ASME A17.1/CSA B44 or applicable local code when not conveying passengers. C405.9 Total voltage drop across the Requirement will be met. [EL29]² combination of feeders and branch □Does Not

Additional Comments/Assumptions:

circuits <= 5%.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: 166 S. LIBERTY DRIVE - DEAL #13216 / STORE #2573

□Not Observable □Not Applicable

Data filename: \\klhfs01.klhengrs.com\g\24000-24999\24200-24299\24211\Project Data\Energy\Compliance\ELECTRICAL 2020 NYStretch - 2018 IECC.cck Report date: 06/14/22 Page 5 of 8

C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [Fi57] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Complies?

Final Inspection

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 166 S. LIBERTY DRIVE - DEAL #13216 / STORE #2573 Data filename: \\klhfs01.klhengrs.com\g\24000-24999\24200-24299\24211\Project Data\Energy\Compliance\ELECTRICAL 2020 NYStretch - 2018 IECC.cck Report date: 06/14/22 Page 7 of 8

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