

2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: LEE BUILDING RENOVATIONS AND STUDENT SERVICES ADDITION VOL. 2, Address: 1012 WEST HAMLET AVE., HAMLET N.C., Zip Code: 28348

LEAD DESIGN PROFESSIONAL: JAMES H. POWELL ARCHITECT. Table listing qualifications for various disciplines like Architectural, Civil, Electrical, etc.

2012 EDITION OF NC CODE FOR: Existing Building - area of North side Renovation: 5,452 s.f., Existing Building - area of West side Renovation: 6,375 s.f.

BASIC BUILDING DATA. Construction Type: II-A, II-B, III, IV, V-A, V-B. Fire District: No. Flood Hazard Area: No.

Gross Building Area table with columns for Floor, Existing (sq ft), New (sq ft), Sub-Total.

2012 NC Administrative Code and Policies. Existing Building - area of North side Renovation: 5,452 s.f., Existing Building - area of West side Renovation: 6,375 s.f.

ALLOWABLE AREA. Occupancy: Assembly, Business, Educational, Factory, Hazardous, Institutional, Mercantile, Residential, Storage, Utility and Miscellaneous. Accessory Occupancies: Assembly, Business, Educational, Factory, Hazardous, Institutional, Mercantile, Residential, Storage, Utility and Miscellaneous. Incidental Uses (Table 508.2.3): Place where any piece of equipment is over 400,000 Btu per hour, etc.

Annual Area of Occupancy A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. Allowable Area of Occupancy A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

Table with columns for STORY NO., AREA (sq ft), PERCENT OF TOTAL AREA, etc.

1. Footprint area increases from Section 506.2 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = 30 ft (F), b. Total Building Perimeter = 494' (P), c. Ratio (F/P) = 59' / 494' = 0.12 (R), d. W = Minimum width of public way = 30' (W), e. Percent of footprint increase: F x 100 / P x W = 75 (%)

ALLOWABLE HEIGHT table with columns for Type of Construction, Type I, II, III, IV, V, Height (ft), Table 506.2, Table 506.3.

2012 NC Administrative Code and Policies. Existing Building - area of North side Renovation: 5,452 s.f., Existing Building - area of West side Renovation: 6,375 s.f.

FIRE PROTECTION REQUIREMENTS table with columns for System, Fire Risk, etc.

LIFE SAFETY SYSTEM REQUIREMENTS table with columns for System, Life Safety, etc.

LIFE SAFETY PLAN REQUIREMENTS table with columns for System, Life Safety, etc.

ENERGY REQUIREMENTS table with columns for System, Energy, etc.

ACCESSIBLE DWELLING UNITS table with columns for Type of Unit, etc.

ACCESSIBLE PARKING table with columns for Type of Vehicle, etc.

STRUCTURAL DESIGN table with columns for Importance Factors, etc.

MECHANICAL SUMMARY table with columns for System, Mechanical, etc.

ELECTRICAL SUMMARY table with columns for System, Electrical, etc.

PLUMBING FIXTURE REQUIREMENTS table with columns for Fixture, Plumbing, etc.

SPECIAL APPROVALS table with columns for Approval, Special, etc.

ENERGY REQUIREMENTS table with columns for System, Energy, etc.

Existing structures within 50' of the proposed building. Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1). Occupant loads for each area. Exit access travel distances (1016). Common path of travel distances (1014.3 & 1033.6). Door and window heights (1016.4). Clear exit widths for each exit door. Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1). Actual occupant load for each exit door. A separate schematic plan indicating where fire-rated fireproofing and/or roof structure is provided for purpose of occupancy separation. Location of doors with panic hardware (1008.1.10). Location of doors with delayed egress locks and the amount of delay (1008.1.9.7). Location of doors with electromagnetic egress locks (1008.1.9.5). Location of doors equipped with hold-open devices. Location of emergency escape windows (1029). The square footage of each fire area (902). The square footage of each smoke compartment (407.4). Note any code exceptions or table notes that may have been entered regarding the items above.

ACCESSIBLE DWELLING UNITS (SECTION 1107) table with columns for Type of Unit, etc.

ACCESSIBLE PARKING (SECTION 1109) table with columns for Type of Vehicle, etc.

EXISTING CAMPUS table with columns for Type of Building, etc.

DESIGN LOADS. STRUCTURAL DESIGN. Importance Factors: Wind (W), Snow (S), Seismic (SE). Live Loads: Roof, Merzantine, Floor. Ground Snow Load: psf. Wind Load: Basic Wind Speed (ASCE-7).

SEISMIC DESIGN CATEGORY. Seismic base shear: Simplified, Equivalent Lateral Force, Dynamic. LATERAL DESIGN CONTROL: Earthquake, Wind. SOIL BEARING CAPACITIES: Field Test (provide copy of test report), Presumptive: Bearing capacity, Pile size, type, and capacity.

SPECIAL INSPECTIONS REQUIRED: Yes, No.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) table with columns for Fixtures, Plumbing, etc.

SPECIAL APPROVALS. Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL/DHHS, JCC, etc., describe below). RICHMOND COUNTY, NORTH CAROLINA STATE CONSTRUCTION OFFICE.

ENERGY REQUIREMENTS table with columns for System, Energy, etc.

The following data shall be considered minimum and any specific attribute required to meet the energy code shall also be provided. Each Designer shall identify the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Climate Zone: 3, 4, 5. Method of Compliance: Prescriptive (Energy Code), Performance (Energy Code), Prescriptive (ASHRAE 90.1), Performance (ASHRAE 90.1).

THERMAL ENVELOPE. Roof/ceiling Assembly (each assembly): 1. 1/2" pvc over 1/2" gyp. cover board over 5" rigid polyiso. ins. over 1 1/2" metal decking. U-Value of total assembly: 0.102. R-Value of insulation: R-34.4.

MECHANICAL SUMMARY. Mechanical Systems, Service Systems and Equipment. Thermal Zone: winter dry bulb, summer dry bulb. Interior design conditions: winter dry bulb, summer dry bulb, relative humidity. Building heating load, Building cooling load. Mechanical Spacing Conditioning System: Utility, description of unit, heating efficiency, cooling efficiency, size category of unit, heater, size category, if oversized, state reason, Chiller, size category, if oversized, state reason, List equipment efficiencies.

ELECTRICAL SUMMARY. Electrical System and Equipment. Method of Compliance: Prescriptive (ASHRAE 90.1), Performance (ASHRAE 90.1). Lighting schedule (each fixture type): lamp type, required in fixture, number of lamps in fixture, bulb type used in the fixture, number of ballasts in fixture, total wattage per fixture, total interior wattage specified vs. allowed (whole building or space by space), total exterior wattage specified vs. allowed.

Additional Prescriptive Compliance: 506.2.1 More Efficient Mechanical Equipment, 506.2.2 Reduced Lighting Power Density, 506.2.3 Energy Recovery Ventilation Systems, 506.2.4 Higher Efficiency Service Water Heating, 506.2.5 On-Site Supply of Renewable Energy, 506.2.6 Automatic Daylighting Control Systems.

2012 NC Administrative Code and Policies.

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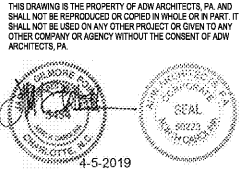
RICHMOND COMMUNITY COLLEGE

LEE BUILDING STUDENT SERVICES & CAREER CENTER VOL.2

BID DOCUMENTS APPENDIX B BUILDING CODE SUMMARY

DATE 04.05.2019, PROJECT NO 16063

REVISIONS NO DATE DESCRIPTION



4-5-2019

SEAL

SHEET NUMBER A001