

Phase II Terminal Addition for:

# OLD DOMINION FREIGHT LINE

185 Rand Road Portland, ME 04102

### **CODE ANALYSIS**

Maine Uniform Building and Energy Code

- 2009 edition of the International Building Code
- 2009 edition of the International Existing Building Code
- 2009 edition of the International Residential Code

• 2009 edition of the International Energy Conservation Code ASHRAE Standards 62.1, 62.2, and 90.1

2009 NFPA 1 - Fire Code

2009 NFPA 54 - Natural Fuel and Gas Code

2009 NFPA 101 - Life Safety Code

2009 International Plumbing Code 2007 NEC National Electric Code

2010 ADAAG Accessibility Code

#### **CODE ANALYSIS**

Phase II consists of adding 5,735 SF of dock area.

Dock: Storage S-1 Occupancy Type:

17,500 SF per Table 503 Allowable Area:

Actual Area: 11,192 SF (total)

Actual area is below 12,000 SF that requires automatic

sprinkler system per 903.2.9

Occupant Load: Occupants

Dock – Storage Occupancy – 11,192 / 500 SF per person = 22.38

Dock – Storage S-1 – Under 29 Occupants require 1 exit **Exits Required:** 

Exit s Provided: Dock – 2

Dock -33" clear width /.2 (per section 1005.1) = Exit Units Provided:

165 occupants x 2 exits = 330 occupants

**Travel Distance:** Per Table 1016.1 – 200' for a building without sprinkler system

Dock - 226' Building Length:

#### **SITE LOCATION MAP**





## **COMcheck information**

COM*check* Software Version 3.9.3

Dock Addition is an uncondition space and

2009 IECC Section 1: Project Information

Construction Site:

Anthony D Gipson Oliver-Rhoads & Associates, INC

301 Industrial Boulevard Tullahoma, TN 37388 931.454.9940

Section 3: Interior Lighting Fixture Schedule

Section 2: Interior Lighting and Power Calculation

B C D E
Lamps/ # of Fixture (C X D) A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Warehouse (5665 sq.ft.) LED 1: Other:

Section 4: Requirements Checklist Interior Lighting PASSES: Design 38% better than code.

Lighting Wattage: Total proposed watts must be less than or equal to total allowed watts. Allowed Watts Proposed Watts Complies

Controls, Switching, and Wiring: 🔲 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting. Independent controls for each space (switch/occupancy sensor).

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COMcheck Software Version 3.9.3

**2009 IECC** 

Section 1: Project Information

Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use)

Owner/Agent:

Designer/Contractor: Anthony D Gipson Oliver-Rhoads & Associates, INC Tullahoma, TN 37388

Section 2: Exterior Lighting Area/Surface Power Calculation

Allowed Tradable Allowed Proposed
Watts Wattage Watts Watts
/ Unit (B x C) Parking area Total Allowed Watts = 6666

Total Allowed Supplemental Watts\*\* = 600 \* Wattage tradeoffs are only allowed between tradable areas/surfaces. A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces Section 3: Exterior Lighting Fixture Schedule

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Parking area (111103 ft2): Tradable Wattage LED 1: VP-A3/-A4/-A5: Other: LED 2: VP-S4: Other: LED 3: F: Other:

Section 4: Requirements Checklist

1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Controls, Switching, and Wiring: 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

☐ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.

3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time

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controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

☐ Lighting in stairways or corridors that are elements of the means of egress.

Areas designated as security or emergency areas that must be continuously illuminated.

☐ The area is a corridor, storeroom, restroom, public lobby or sleeping ur Areas that use less than 0.6 Watts/sq.ft. 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.f

☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security. ☐ 10.Photocell/astronomical time switch on exterior lights

 Lighting intended for 24 hour use. ☐ 11.Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts) ☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COM the National Statement of the COM the statement of the state requirements in COMcheck Version 3.9.3 and to comply with the mandatory requirements the Requirements Checklist. Anthony D. Gipson, P.E.

□ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours. Exterior Lighting Efficacy:

☐ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt. ☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above. Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

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☐ Emergency lighting that is automatically off during normal building operation. ☐ Lighting that is controlled by motion sensor. Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document of consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist. Anthony D. Gipson, P.E.

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Owner: Old Dominion Freight Line 500 Old Dominion Way Thomasville, NC 27360

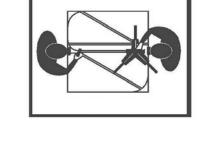
336-822-5324 Phil Danner



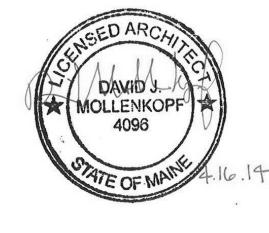
**General Contractor:** D.F. Chase, Inc. Construction 3001 Armory Drive Suite 200 Nashville, TN 37204 615-777-5900 Scott Freeman



Mechanical, Plumbing, & **Electrical Engineer:** Oliver-Rhodes 301 Industrial Blvd. Tullahoma, TN 37388 931-454-9940 Tim Little



Civil Engineer: SiteLines, PA 8 Cumberland St. Brunswick, ME 04011 207-725-1200



ME LICENSE #ARC4096 - EXP 06-31-15 DAVID MOLLENKOPF, ARCHITECT



ADDITION REFLECTED CEILING ODFL STANDARD DETAILS **STRUCTURAL** GENERAL NOTE, SCHEDULES AND SPECIFICATIONS FOUNDATION PLAN FOUNDATION SECTIONS

**MECHANICAL** 

**GENERAL** 

**GENERAL NOTES** 

ADA REQUIREMENTS

CIVIL

DEMOLITION PLAN

**EXISTING CONDITIONS &** 

GRADING, DRAINAGE, & **EROSION CONTROL PLAN** 

STORMWATER DETAILS

**ARCHITECTURAL** 

ADDITION ROOF PLAN

**ADDITION ELEVATIONS** 

SITE PLAN

SITE DETAILS

SITE LAYOUT & UTILITY PLAN

SITE DEVELOPMENT DETAILS

**EROSION CONTROL DETAILS &** 

ADDITION DEMOLITION & FLOOR

ADDITION WALL SECTION & STAIR

SURVEY PLAN

**COVER SHEET** 

RENOVATION COVER SHEET ADDITION COVER SHEET

ADDITION LIFE SAFETY PLAN

**PLUMBING** PIPING PLAN

**ELECTRICAL** POWER & LIGHTING PLAN SCHEDULES & RISER DIAGRAMS PANEL SCHEDULES **LEGEND & NOTES** E4.1 SITE LIGHTING PLAN SITE PHOTOMETRICS Unnamed ES2.1 SITE POWER PLAN

13061.00 Project No.

COMcheck

Description 04/16/2014 PERMIT ISSUE

7-15-14

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